

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: P965533

Luminaire Tested: **NVN-SB4A-722-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P965533  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB4A-722-U-T2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15082.9 lumens  
Efficiency: N/A  
Efficacy: 132.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

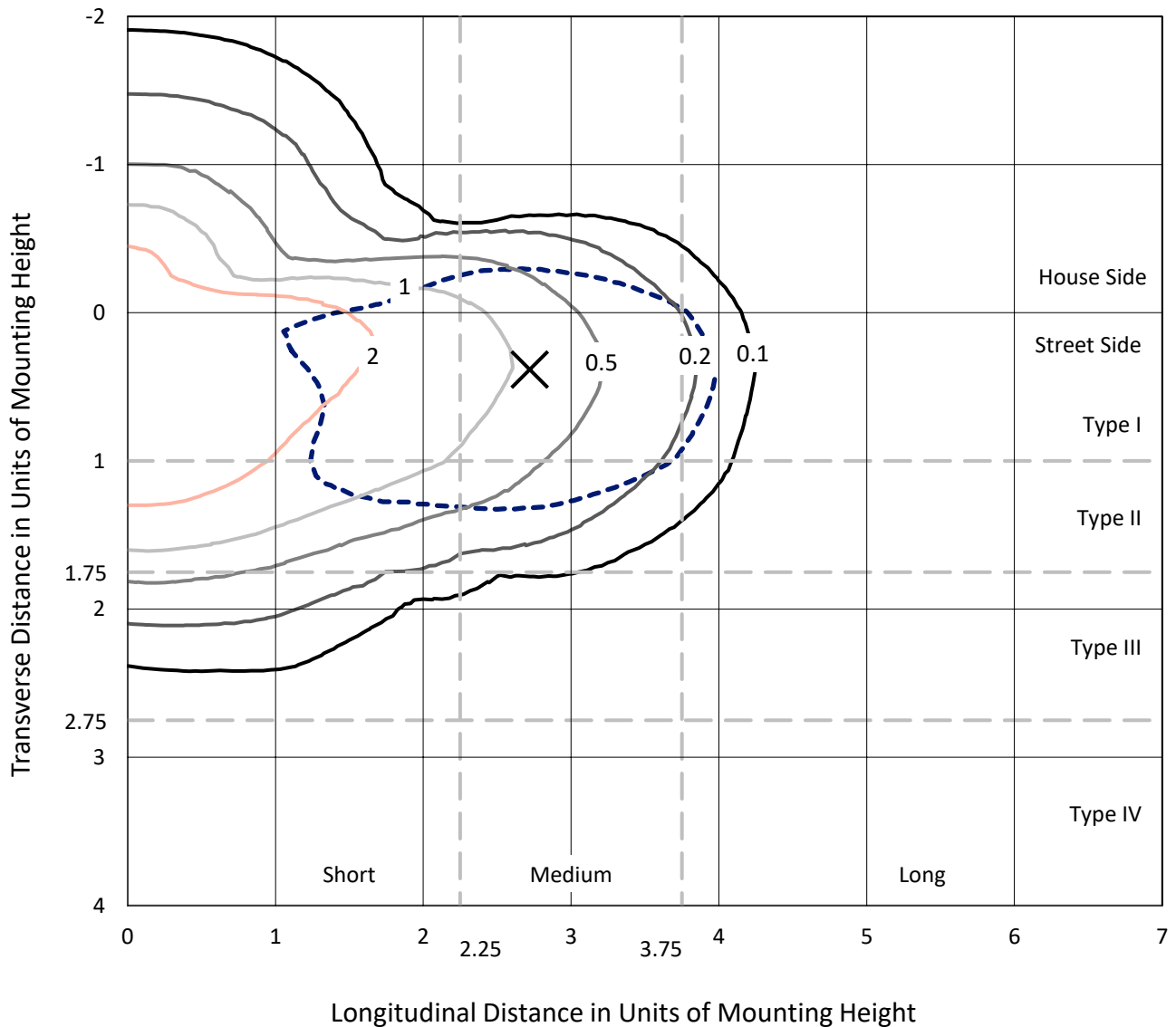
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

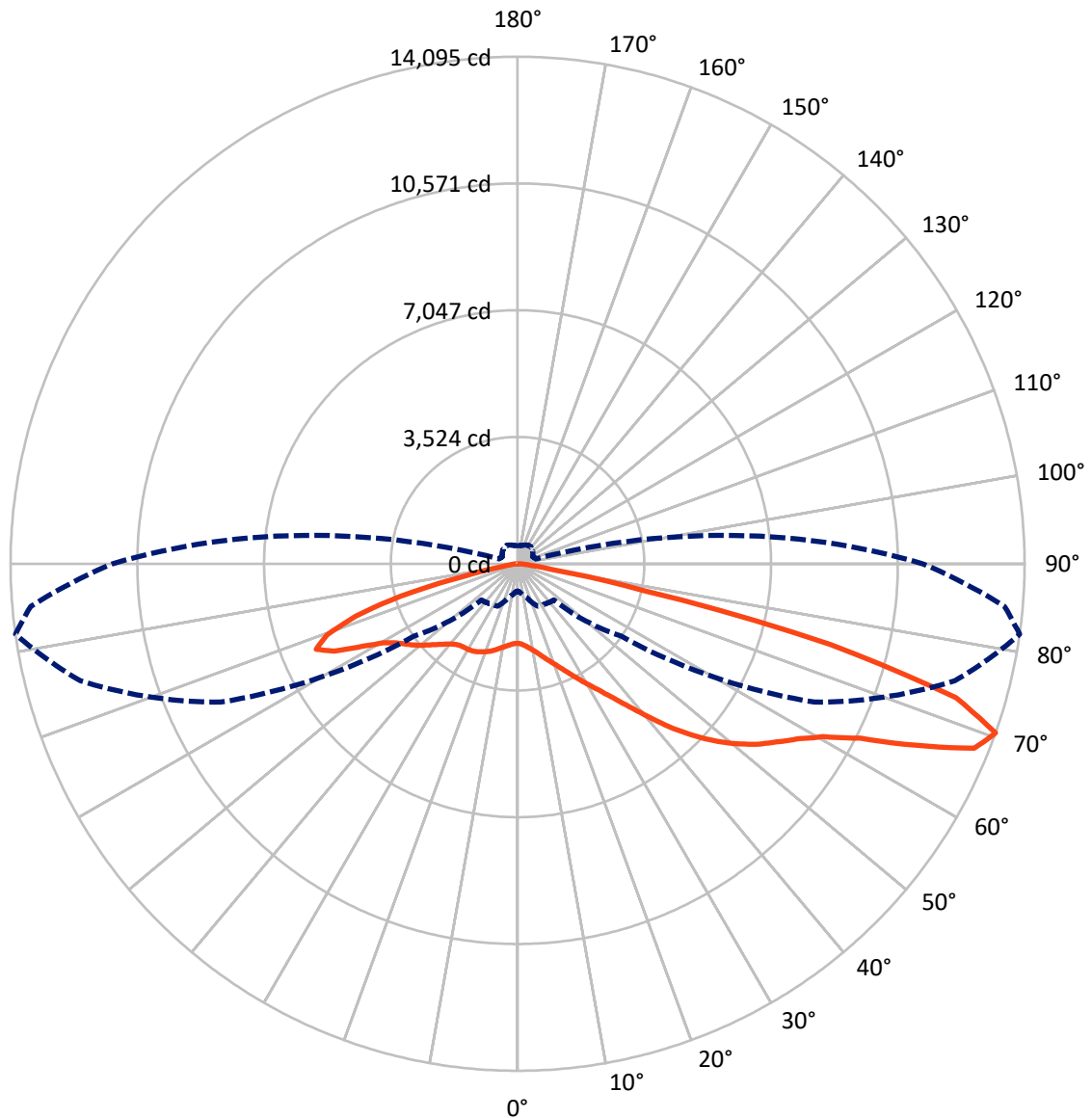
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3718.3   | 0.0    | 3718.3  |
|                    | % Fixture | 24.7     | 0.0    | 24.7    |
| <b>Street Side</b> | Lumens    | 11364.6  | 0.0    | 11364.6 |
|                    | % Fixture | 75.3     | 0.0    | 75.3    |
| <b>Total</b>       | Lumens    | 15082.9  | 0.0    | 15082.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 208.8   | 1.4       |
| 10°-20°   | 599.9   | 4.0       |
| 20°-30°   | 1003.5  | 6.7       |
| 30°-40°   | 1567.7  | 10.4      |
| 40°-50°   | 2496.8  | 16.6      |
| 50°-60°   | 3474.6  | 23.0      |
| 60°-70°   | 3634.6  | 24.1      |
| 70°-80°   | 1899.6  | 12.6      |
| 80°-90°   | 197.3   | 1.3       |
| 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°    | 15082.9 | 100.0     |
| 0°-180°   | 15082.9 | 100.0     |

**Coefficient of Utilization**



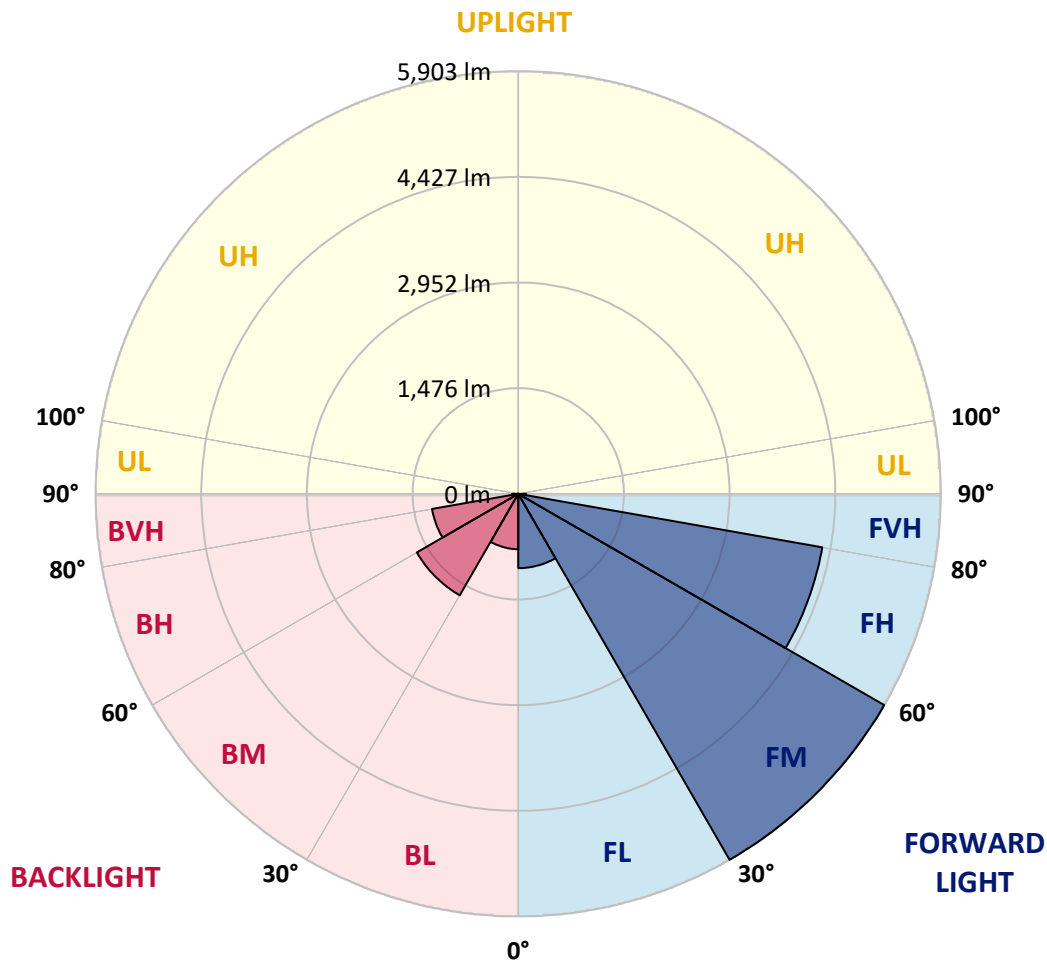
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1038.6 | 6.9       |                         |      |         |
| FM (30°-60°)   | 5903.3 | 39.1      |                         |      |         |
| FH (60°-80°)   | 4312.2 | 28.6      |                         |      | G2/5000 |
| FVH (80°-90°)  | 110.4  | 0.7       |                         |      | G2/225  |
| BL (0°-30°)    | 773.5  | 5.1       | B2/1000                 |      |         |
| BM (30°-60°)   | 1635.9 | 10.8      | B2/2500                 |      |         |
| BH (60°-80°)   | 1222.0 | 8.1       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 86.8   | 0.6       |                         |      | G1/100  |
| 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 Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 75°     | 82°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 2211.3 | 2211.3 | 2211.3 | 2211.3 | 2211.3 | 2211.3 | 2211.3 | 2211.3  | 2211.3  | 2211.3  | 2211.3  |
| 2.5°  | 2264.1 | 2276.9 | 2272.9 | 2268.9 | 2268.9 | 2263.4 | 2262.6 | 2254.6  | 2248.1  | 2237.8  | 2235.3  |
| 5°    | 2292.9 | 2306.6 | 2305.0 | 2308.2 | 2318.5 | 2321.0 | 2323.4 | 2318.5  | 2305.7  | 2292.9  | 2287.4  |
| 7.5°  | 2267.4 | 2282.6 | 2287.4 | 2306.6 | 2338.6 | 2367.4 | 2389.0 | 2397.8  | 2385.8  | 2367.4  | 2358.6  |
| 10°   | 2180.9 | 2197.7 | 2214.5 | 2260.1 | 2317.0 | 2385.0 | 2442.7 | 2477.0  | 2474.7  | 2457.0  | 2441.9  |
| 12.5° | 2005.6 | 2023.2 | 2059.2 | 2148.1 | 2252.1 | 2372.2 | 2479.5 | 2551.5  | 2576.3  | 2563.5  | 2537.1  |
| 15°   | 1865.6 | 1880.8 | 1908.0 | 1999.3 | 2134.5 | 2317.0 | 2493.1 | 2633.1  | 2696.4  | 2689.2  | 2657.1  |
| 17.5° | 1861.6 | 1868.0 | 1884.8 | 1928.0 | 2032.1 | 2230.5 | 2478.7 | 2713.2  | 2834.0  | 2833.2  | 2793.2  |
| 20°   | 1932.0 | 1934.4 | 1944.0 | 1952.8 | 2012.1 | 2164.9 | 2441.9 | 2779.6  | 2988.5  | 2988.5  | 2945.2  |
| 22.5° | 2029.7 | 2028.1 | 2037.7 | 2029.7 | 2058.5 | 2159.3 | 2418.6 | 2838.0  | 3160.6  | 3173.3  | 3119.0  |
| 25°   | 2176.1 | 2168.1 | 2165.7 | 2147.3 | 2152.9 | 2211.3 | 2444.2 | 2904.4  | 3364.7  | 3391.0  | 3323.0  |
| 27.5° | 2371.4 | 2358.6 | 2349.8 | 2307.4 | 2292.9 | 2318.5 | 2522.6 | 2984.5  | 3591.9  | 3637.5  | 3551.1  |
| 30°   | 2625.9 | 2602.7 | 2589.9 | 2516.3 | 2464.2 | 2468.2 | 2641.1 | 3090.9  | 3829.6  | 3903.3  | 3793.6  |
| 32.5° | 2973.2 | 2937.2 | 2902.8 | 2782.0 | 2686.7 | 2655.6 | 2793.9 | 3238.2  | 4087.3  | 4205.0  | 4064.1  |
| 35°   | 3362.2 | 3333.4 | 3296.6 | 3110.2 | 2963.7 | 2891.6 | 3000.5 | 3443.9  | 4389.0  | 4575.5  | 4392.2  |
| 37.5° | 3736.7 | 3711.9 | 3729.6 | 3478.2 | 3289.4 | 3184.6 | 3271.0 | 3719.9  | 4761.2  | 5036.5  | 4803.7  |
| 40°   | 4124.2 | 4104.9 | 4107.4 | 3867.2 | 3647.2 | 3529.5 | 3599.1 | 4066.5  | 5187.8  | 5584.8  | 5298.2  |
| 42.5° | 4545.2 | 4530.7 | 4482.7 | 4269.8 | 4022.5 | 3912.8 | 3976.9 | 4466.7  | 5645.6  | 6209.0  | 5840.9  |
| 45°   | 5016.6 | 5007.7 | 4962.9 | 4718.8 | 4435.5 | 4312.3 | 4398.7 | 4908.5  | 6105.8  | 6796.5  | 6386.0  |
| 47.5° | 5423.9 | 5431.1 | 5425.5 | 5219.8 | 4926.0 | 4745.2 | 4848.5 | 5369.5  | 6534.0  | 7348.7  | 6908.5  |
| 50°   | 5620.0 | 5657.6 | 5712.8 | 5648.8 | 5466.3 | 5282.2 | 5302.2 | 5814.5  | 6942.1  | 7866.6  | 7409.5  |
| 52.5° | 5517.6 | 5588.8 | 5739.3 | 5841.7 | 5912.1 | 5873.7 | 5820.1 | 6256.3  | 7326.3  | 8334.0  | 7883.4  |
| 55°   | 5135.8 | 5235.8 | 5485.5 | 5732.8 | 6092.2 | 6371.5 | 6441.9 | 6746.0  | 7700.8  | 8745.3  | 8331.5  |
| 57.5° | 4440.3 | 4602.8 | 4826.8 | 5327.0 | 5932.1 | 6612.4 | 7167.0 | 7425.5  | 8097.8  | 9184.7  | 8800.5  |
| 60°   | 3247.8 | 3465.4 | 3744.0 | 4488.3 | 5371.9 | 6483.5 | 7784.1 | 8469.2  | 8662.1  | 9753.7  | 9411.2  |
| 62.5° | 2078.5 | 2213.0 | 2469.0 | 3170.1 | 4185.8 | 5823.2 | 7973.0 | 9773.8  | 9618.5  | 10687.0 | 10326.8 |
| 65°   | 1423.0 | 1509.4 | 1743.9 | 2137.7 | 2705.9 | 4334.6 | 7467.1 | 10751.7 | 11137.5 | 12165.9 | 11892.3 |
| 67.5° | 1034.0 | 1099.6 | 1299.8 | 1644.7 | 1763.1 | 2565.1 | 5794.4 | 10706.9 | 12614.2 | 13689.8 | 13264.0 |
| 70°   | 753.9  | 800.3  | 968.4  | 1299.8 | 1356.6 | 1427.0 | 3510.3 | 9101.5  | 12582.2 | 14094.8 | 13584.9 |
| 72.5° | 558.6  | 590.6  | 703.5  | 1008.4 | 1098.1 | 963.6  | 1737.6 | 6614.8  | 10811.8 | 12748.6 | 12339.7 |
| 75°   | 404.2  | 428.1  | 511.4  | 771.5  | 878.7  | 733.9  | 866.7  | 3865.7  | 7541.6  | 8967.8  | 9039.9  |
| 77.5° | 308.9  | 327.4  | 381.8  | 565.1  | 703.5  | 550.6  | 537.8  | 1778.4  | 3575.9  | 3593.5  | 3795.2  |
| 80°   | 248.2  | 260.1  | 289.8  | 397.8  | 539.5  | 412.2  | 350.5  | 717.9   | 1130.1  | 956.4   | 1003.6  |
| 82.5° | 182.4  | 202.4  | 244.9  | 279.3  | 385.8  | 284.1  | 213.7  | 362.5   | 429.8   | 369.7   | 373.0   |
| 85°   | 104.0  | 117.7  | 148.1  | 200.1  | 246.5  | 173.6  | 122.5  | 160.8   | 200.1   | 164.1   | 146.5   |
| 87.5° | 36.8   | 48.0   | 52.1   | 78.4   | 107.2  | 72.1   | 47.3   | 46.4    | 65.6    | 48.8    | 40.8    |
| 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°    | 2211.3  | 2211.3 | 2211.3 | 2211.3 | 2211.3 | 2211.3 | 2211.3 | 2211.3 | 2211.3 | 2211.3 | 2211.3 |
| 2.5°  | 2227.3  | 2223.3 | 2207.3 | 2185.7 | 2163.4 | 2141.7 | 2134.5 | 2119.3 | 2108.9 | 2103.3 | 2109.7 |
| 5°    | 2272.1  | 2259.4 | 2221.8 | 2173.7 | 2123.3 | 2068.9 | 2030.4 | 1995.3 | 1969.6 | 1945.7 | 1955.2 |
| 7.5°  | 2336.2  | 2313.7 | 2249.0 | 2164.9 | 2075.3 | 1984.8 | 1917.6 | 1866.4 | 1832.0 | 1809.5 | 1814.4 |
| 10°   | 2410.6  | 2376.3 | 2276.9 | 2151.3 | 2012.9 | 1883.2 | 1804.0 | 1759.9 | 1738.3 | 1726.3 | 1729.5 |
| 12.5° | 2496.3  | 2447.4 | 2305.7 | 2120.1 | 1917.6 | 1769.6 | 1715.1 | 1702.3 | 1703.1 | 1704.0 | 1705.5 |
| 15°   | 2601.9  | 2533.9 | 2329.0 | 2052.0 | 1793.5 | 1682.3 | 1672.7 | 1693.5 | 1715.1 | 1725.5 | 1724.8 |
| 17.5° | 2721.2  | 2625.1 | 2333.0 | 1940.0 | 1671.9 | 1626.3 | 1656.7 | 1701.5 | 1734.3 | 1748.8 | 1751.9 |
| 20°   | 2849.2  | 2718.0 | 2304.2 | 1781.6 | 1571.8 | 1580.7 | 1635.1 | 1692.7 | 1728.8 | 1747.1 | 1751.9 |
| 22.5° | 2995.7  | 2817.2 | 2235.3 | 1615.1 | 1490.2 | 1531.0 | 1595.1 | 1651.1 | 1688.7 | 1707.1 | 1712.0 |
| 25°   | 3162.9  | 2928.4 | 2127.3 | 1475.0 | 1419.8 | 1475.0 | 1539.0 | 1585.5 | 1615.9 | 1632.7 | 1637.5 |
| 27.5° | 3348.6  | 3044.5 | 1983.3 | 1363.8 | 1358.1 | 1417.4 | 1470.3 | 1506.2 | 1522.2 | 1535.0 | 1539.9 |
| 30°   | 3535.1  | 3150.1 | 1808.8 | 1279.7 | 1304.5 | 1360.6 | 1398.2 | 1414.2 | 1419.0 | 1421.4 | 1427.0 |
| 32.5° | 3736.7  | 3241.4 | 1625.4 | 1210.1 | 1253.4 | 1305.3 | 1327.8 | 1335.0 | 1312.5 | 1297.3 | 1302.2 |
| 35°   | 3980.9  | 3339.0 | 1446.2 | 1154.9 | 1202.9 | 1247.7 | 1254.9 | 1248.6 | 1222.1 | 1190.9 | 1192.5 |
| 37.5° | 4282.7  | 3460.7 | 1303.0 | 1115.7 | 1155.7 | 1185.3 | 1176.5 | 1174.9 | 1177.3 | 1140.5 | 1142.9 |
| 40°   | 4652.4  | 3619.2 | 1198.1 | 1085.3 | 1117.2 | 1123.7 | 1098.9 | 1112.4 | 1124.5 | 1068.5 | 1070.1 |
| 42.5° | 5063.0  | 3810.4 | 1131.7 | 1064.5 | 1085.3 | 1070.1 | 1031.7 | 1046.8 | 1045.2 | 971.6  | 970.8  |
| 45°   | 5481.5  | 4018.5 | 1108.4 | 1049.3 | 1055.6 | 1025.2 | 982.8  | 986.8  | 953.2  | 886.7  | 889.2  |
| 47.5° | 5897.7  | 4241.8 | 1122.9 | 1036.5 | 1018.8 | 984.4  | 951.6  | 934.0  | 884.4  | 834.8  | 834.8  |
| 50°   | 6305.9  | 4476.3 | 1175.7 | 1010.9 | 968.4  | 948.4  | 924.3  | 893.2  | 840.4  | 798.0  | 794.8  |
| 52.5° | 6684.4  | 4712.4 | 1234.9 | 968.4  | 905.2  | 917.2  | 902.0  | 865.9  | 814.0  | 770.7  | 771.5  |
| 55°   | 7043.0  | 4948.5 | 1258.1 | 910.0  | 845.9  | 890.0  | 881.2  | 814.8  | 752.3  | 717.1  | 713.9  |
| 57.5° | 7433.5  | 5232.6 | 1232.6 | 835.6  | 798.0  | 858.7  | 825.1  | 751.5  | 715.6  | 689.1  | 686.6  |
| 60°   | 7974.6  | 5678.4 | 1177.3 | 743.5  | 752.3  | 812.3  | 754.7  | 724.3  | 685.1  | 655.5  | 653.8  |
| 62.5° | 8873.3  | 6510.0 | 1088.4 | 652.3  | 698.7  | 743.5  | 721.1  | 690.6  | 650.7  | 621.9  | 621.9  |
| 65°   | 10201.9 | 7665.7 | 921.2  | 581.1  | 638.7  | 676.3  | 685.1  | 654.7  | 613.1  | 582.6  | 584.2  |
| 67.5° | 11322.4 | 8390.8 | 697.1  | 521.8  | 577.1  | 621.9  | 646.7  | 617.0  | 573.1  | 543.5  | 544.3  |
| 70°   | 11260.8 | 7864.1 | 532.2  | 463.4  | 522.6  | 568.3  | 600.2  | 577.1  | 529.8  | 501.8  | 504.2  |
| 72.5° | 10001.8 | 6578.8 | 430.6  | 404.2  | 467.4  | 512.2  | 550.6  | 533.0  | 485.0  | 457.8  | 457.8  |
| 75°   | 7347.9  | 4670.0 | 344.2  | 344.2  | 398.5  | 453.8  | 496.2  | 485.0  | 441.0  | 421.8  | 416.2  |
| 77.5° | 3097.3  | 1959.2 | 269.7  | 285.8  | 331.4  | 389.8  | 442.6  | 446.6  | 408.2  | 432.1  | 392.2  |
| 80°   | 823.6   | 540.3  | 205.7  | 224.9  | 260.1  | 321.7  | 385.0  | 383.3  | 341.7  | 319.3  | 296.9  |
| 82.5° | 313.8   | 212.9  | 146.5  | 158.5  | 188.1  | 246.5  | 304.9  | 314.6  | 273.0  | 236.1  | 236.1  |
| 85°   | 120.8   | 91.2   | 90.4   | 95.2   | 109.7  | 163.3  | 230.5  | 238.5  | 205.7  | 174.5  | 180.1  |
| 87.5° | 31.3    | 27.2   | 33.6   | 32.0   | 50.4   | 87.2   | 132.0  | 136.8  | 125.7  | 72.9   | 104.0  |
| 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)