

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: P971338

Luminaire Tested: **NVN-SB6D-722-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P971338  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB6D-722-U-T4W  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 52148.9 lumens  
Efficiency: N/A  
Efficacy: 118.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

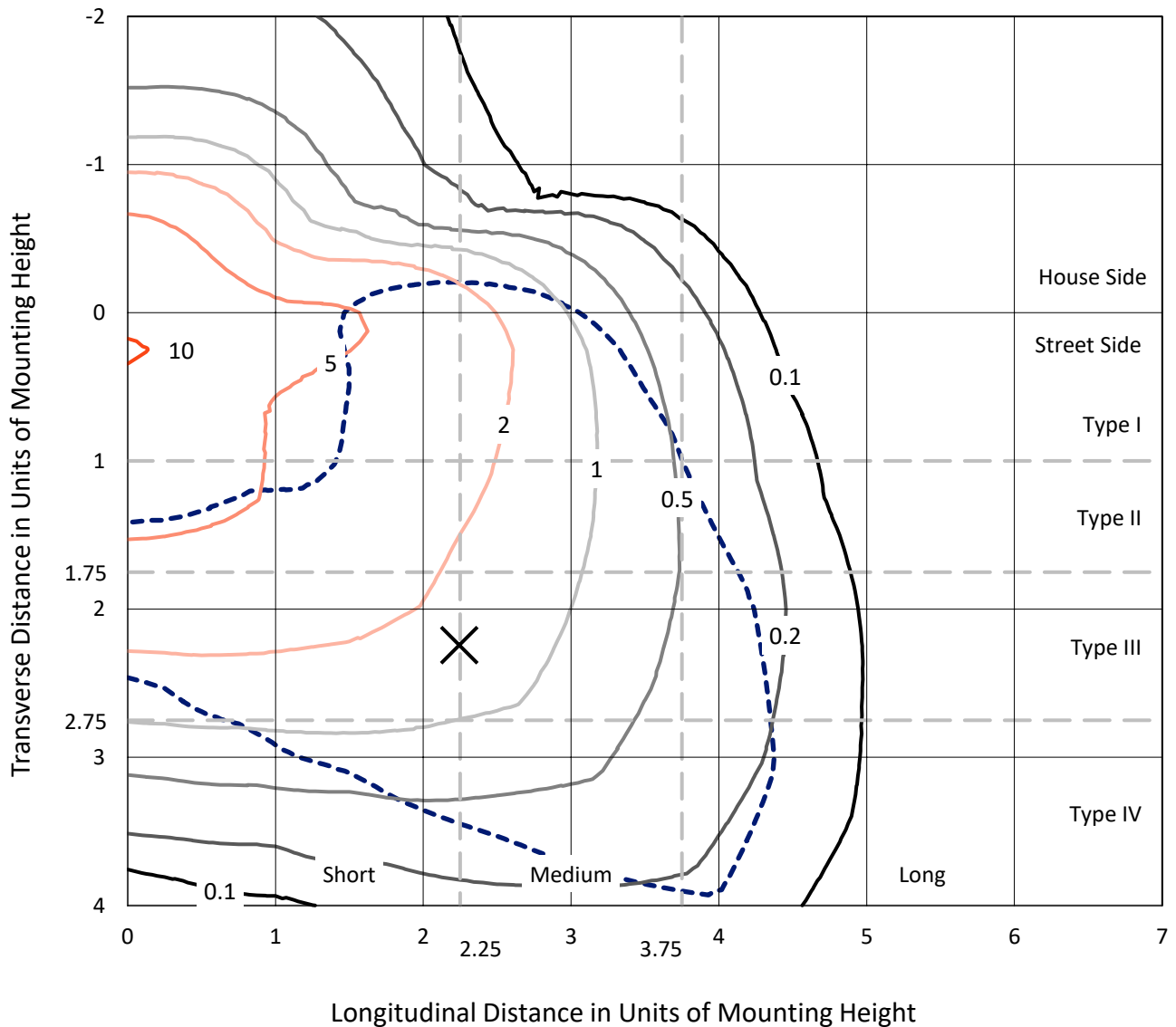
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

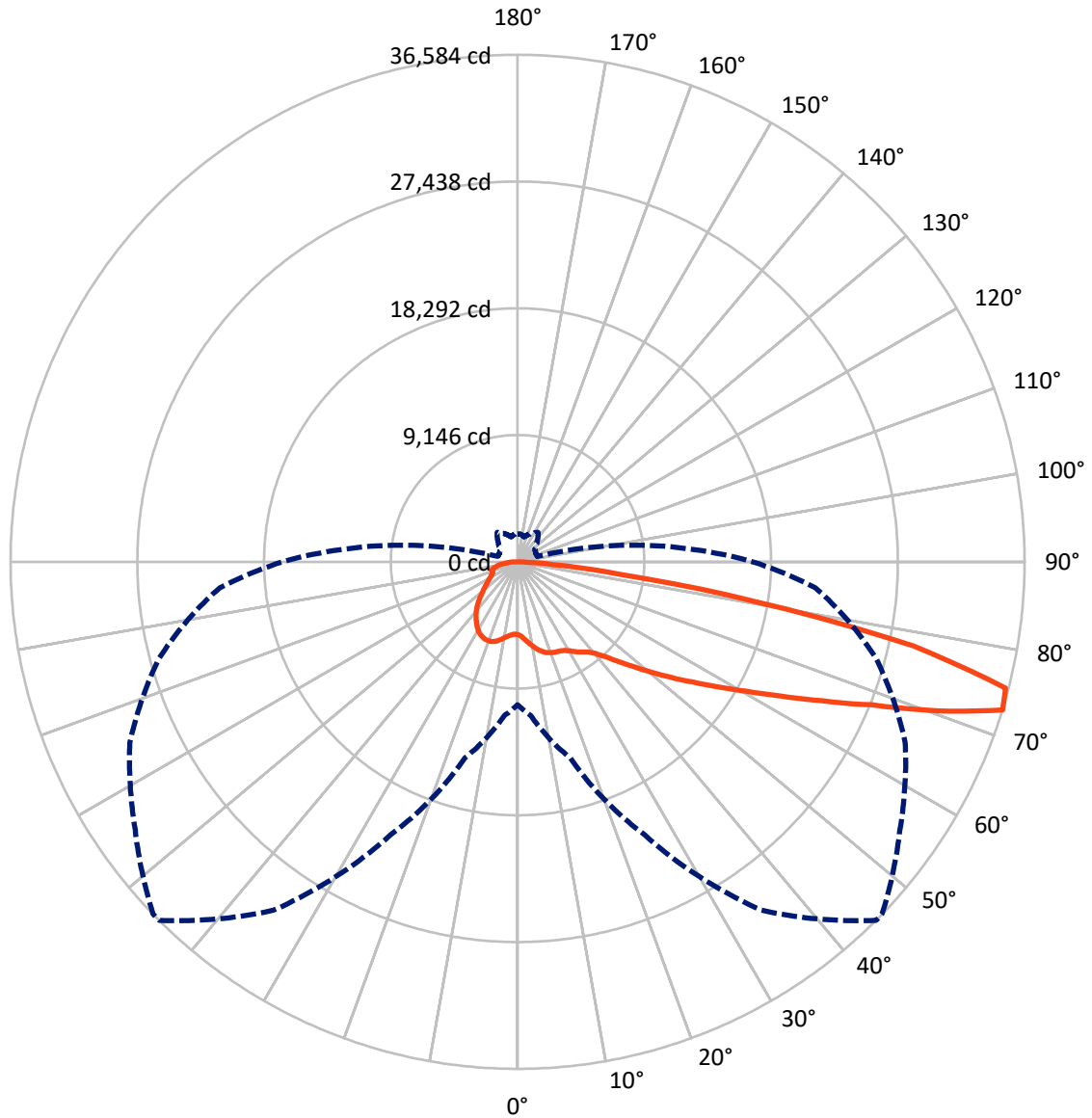
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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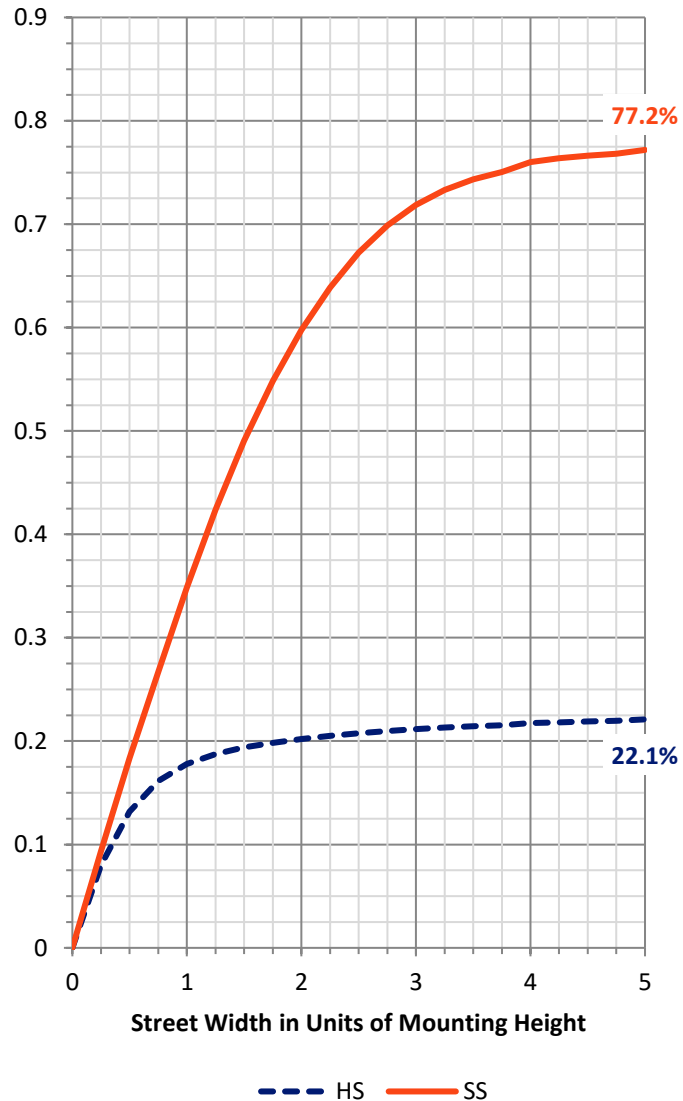
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11789.1  | 0.0    | 11789.1 |
|                    | % Fixture | 22.6     | 0.0    | 22.6    |
| <b>Street Side</b> | Lumens    | 40359.8  | 0.0    | 40359.8 |
|                    | % Fixture | 77.4     | 0.0    | 77.4    |
| <b>Total</b>       | Lumens    | 52148.9  | 0.0    | 52148.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 535.4   | 1.0       |
| 10°-20°   | 1785.2  | 3.4       |
| 20°-30°   | 3105.5  | 6.0       |
| 30°-40°   | 4452.0  | 8.5       |
| 40°-50°   | 6268.6  | 12.0      |
| 50°-60°   | 9601.7  | 18.4      |
| 60°-70°   | 13909.5 | 26.7      |
| 70°-80°   | 11107.5 | 21.3      |
| 80°-90°   | 1383.4  | 2.7       |
| 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°    | 52148.9 | 100.0     |
| 0°-180°   | 52148.9 | 100.0     |

**Coefficient of Utilization**

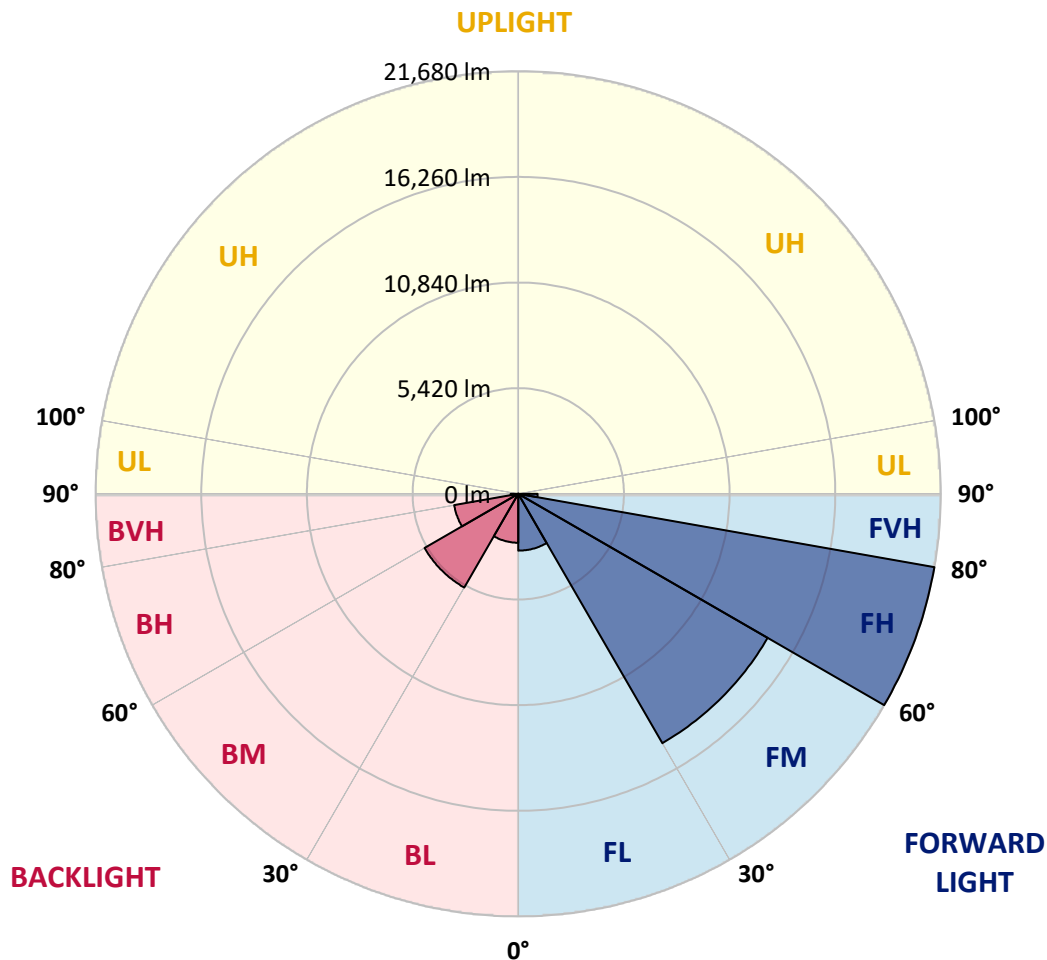


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2916.2  | 5.6       |                         |      |         |
| FM (30°-60°)   | 14771.3 | 28.3      |                         |      |         |
| FH (60°-80°)   | 21679.8 | 41.6      |                         |      | G5      |
| FVH (80°-90°)  | 992.5   | 1.9       |                         |      | G5      |
| BL (0°-30°)    | 2510.0  | 4.8       | B4/5000                 |      |         |
| BM (30°-60°)   | 5551.0  | 10.6      | B4/8500                 |      |         |
| BH (60°-80°)   | 3337.2  | 6.4       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 390.9   | 0.7       |                         |      | G3/500  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**  
 Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 46°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5260.8  | 5260.8  | 5260.8  | 5260.8  | 5260.8  | 5260.8  | 5260.8  | 5260.8  | 5260.8  | 5260.8  | 5260.8  |
| 2.5°  | 5466.8  | 5502.6  | 5469.6  | 5439.4  | 5425.6  | 5390.0  | 5387.2  | 5365.2  | 5351.4  | 5313.0  | 5302.0  |
| 5°    | 5848.8  | 5895.4  | 5840.4  | 5780.0  | 5725.0  | 5637.2  | 5626.2  | 5563.0  | 5491.5  | 5409.1  | 5362.5  |
| 7.5°  | 6280.0  | 6321.2  | 6258.0  | 6167.4  | 6071.2  | 5925.6  | 5922.9  | 5807.5  | 5694.9  | 5554.8  | 5475.1  |
| 10°   | 6656.4  | 6711.3  | 6626.1  | 6502.5  | 6381.6  | 6216.8  | 6197.6  | 6065.7  | 5922.9  | 5741.5  | 5620.7  |
| 12.5° | 6988.8  | 7027.2  | 6944.8  | 6793.7  | 6653.6  | 6488.8  | 6464.1  | 6318.5  | 6159.1  | 5953.1  | 5799.2  |
| 15°   | 7252.5  | 7302.0  | 7192.0  | 7030.0  | 6881.6  | 6719.6  | 6697.6  | 6565.7  | 6406.4  | 6189.4  | 5991.5  |
| 17.5° | 7425.6  | 7466.8  | 7354.2  | 7172.8  | 7030.0  | 6895.4  | 6878.9  | 6769.0  | 6628.9  | 6409.1  | 6197.6  |
| 20°   | 7491.5  | 7535.5  | 7417.3  | 7233.3  | 7101.4  | 6997.1  | 6988.8  | 6909.1  | 6813.0  | 6612.4  | 6398.2  |
| 22.5° | 7557.4  | 7598.6  | 7444.8  | 7252.5  | 7137.1  | 7071.2  | 7068.4  | 7016.2  | 6977.8  | 6813.0  | 6604.2  |
| 25°   | 7823.9  | 7834.9  | 7628.9  | 7351.4  | 7186.6  | 7128.9  | 7126.1  | 7123.3  | 7139.8  | 7010.8  | 6826.7  |
| 27.5° | 8054.7  | 8051.9  | 7876.1  | 7615.1  | 7359.6  | 7238.8  | 7236.0  | 7263.5  | 7315.7  | 7208.5  | 7057.4  |
| 30°   | 8392.6  | 8362.4  | 8153.6  | 7881.6  | 7648.1  | 7461.3  | 7444.8  | 7420.1  | 7461.3  | 7376.1  | 7288.3  |
| 32.5° | 9109.6  | 9013.4  | 8675.5  | 8192.0  | 7887.1  | 7744.3  | 7722.2  | 7568.4  | 7584.9  | 7532.7  | 7488.8  |
| 35°   | 10137.0 | 10010.7 | 9560.1  | 8779.9  | 8183.8  | 7980.5  | 7969.5  | 7774.4  | 7741.5  | 7694.8  | 7711.3  |
| 37.5° | 11359.5 | 11202.9 | 10678.2 | 9631.5  | 8694.8  | 8255.2  | 8238.7  | 8063.0  | 7928.3  | 7878.9  | 7972.2  |
| 40°   | 12587.5 | 12389.7 | 11955.6 | 10669.9 | 9447.5  | 8714.0  | 8661.8  | 8395.4  | 8241.5  | 8159.1  | 8356.8  |
| 42.5° | 13779.8 | 13615.0 | 13244.0 | 11834.8 | 10376.0 | 9384.3  | 9268.9  | 8812.8  | 8697.5  | 8620.6  | 8977.8  |
| 45°   | 14834.6 | 14686.3 | 14414.4 | 13079.2 | 11463.9 | 10296.3 | 10183.7 | 9439.2  | 9403.6  | 9403.6  | 9919.9  |
| 47.5° | 15691.8 | 15658.8 | 15370.4 | 14348.5 | 12746.8 | 11334.8 | 11139.7 | 10310.1 | 10406.2 | 10554.6 | 11257.9 |
| 50°   | 16642.3 | 16551.6 | 16244.0 | 15598.3 | 14255.0 | 12524.3 | 12365.0 | 11378.7 | 11738.6 | 12145.2 | 13191.9 |
| 52.5° | 17515.9 | 17565.3 | 17221.9 | 16900.5 | 15958.2 | 13851.1 | 13571.0 | 12639.7 | 13417.1 | 14090.2 | 15458.2 |
| 55°   | 18414.2 | 18417.0 | 18320.8 | 18276.9 | 17743.9 | 15318.2 | 15010.5 | 14156.1 | 15392.3 | 16227.5 | 18101.0 |
| 57.5° | 19257.6 | 19263.1 | 19405.9 | 19793.3 | 19815.3 | 17010.4 | 16661.5 | 16018.7 | 17587.4 | 18438.9 | 20826.3 |
| 60°   | 20010.4 | 20048.8 | 20438.9 | 21345.4 | 21636.6 | 18949.9 | 18620.3 | 18219.2 | 19856.5 | 20713.6 | 23691.5 |
| 62.5° | 20263.0 | 20403.1 | 21271.2 | 22559.6 | 23436.0 | 21328.9 | 21004.8 | 20765.8 | 22241.0 | 23037.7 | 26087.1 |
| 65°   | 19834.5 | 20155.9 | 21834.4 | 23562.4 | 25287.6 | 24155.8 | 23834.3 | 23573.4 | 24718.9 | 25468.9 | 28054.0 |
| 67.5° | 18782.3 | 19197.1 | 21801.4 | 24614.6 | 27534.8 | 27556.7 | 27257.3 | 26644.7 | 27375.5 | 27663.9 | 28694.1 |
| 70°   | 16010.5 | 16631.3 | 19881.2 | 25007.4 | 30114.4 | 32207.8 | 31919.2 | 30342.4 | 30026.5 | 28630.9 | 26891.9 |
| 72.5° | 10315.6 | 11150.8 | 14639.7 | 21774.0 | 30688.5 | 36583.9 | 36567.5 | 33680.2 | 30864.4 | 26751.9 | 21567.9 |
| 75°   | 3763.6  | 4274.6  | 6802.0  | 13667.1 | 25760.1 | 36361.4 | 36468.6 | 33108.7 | 28174.9 | 20664.1 | 13436.3 |
| 77.5° | 1370.8  | 1500.0  | 2219.7  | 5252.6  | 15842.9 | 29174.9 | 29397.4 | 26468.9 | 20054.2 | 10370.5 | 5324.0  |
| 80°   | 719.8   | 791.2   | 1137.3  | 2038.4  | 6788.3  | 17326.3 | 17675.2 | 15730.3 | 9425.5  | 3123.5  | 1596.1  |
| 82.5° | 398.3   | 431.3   | 637.3   | 1107.1  | 3057.6  | 7409.1  | 7617.9  | 6214.1  | 3315.8  | 1324.1  | 659.3   |
| 85°   | 214.3   | 228.1   | 299.4   | 604.3   | 1494.4  | 2568.5  | 2626.3  | 1857.1  | 1321.4  | 777.5   | 318.7   |
| 87.5° | 63.1    | 76.9    | 98.9    | 192.3   | 585.2   | 576.9   | 590.6   | 368.1   | 521.9   | 392.9   | 104.3   |
| 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°    | 5260.8  | 5260.8  | 5260.8 | 5260.8 | 5260.8 | 5260.8 | 5260.8 | 5260.8 | 5260.8 | 5260.8 | 5260.8 |
| 2.5°  | 5285.5  | 5277.3  | 5247.1 | 5233.3 | 5216.8 | 5214.1 | 5227.8 | 5230.6 | 5233.3 | 5236.1 | 5247.1 |
| 5°    | 5335.0  | 5307.6  | 5280.1 | 5263.6 | 5269.0 | 5271.8 | 5299.2 | 5318.5 | 5332.3 | 5343.2 | 5348.8 |
| 7.5°  | 5431.2  | 5409.1  | 5362.5 | 5359.7 | 5367.9 | 5392.6 | 5428.4 | 5472.4 | 5497.1 | 5516.3 | 5521.8 |
| 10°   | 5574.0  | 5532.7  | 5477.8 | 5486.1 | 5502.6 | 5538.3 | 5612.5 | 5648.2 | 5689.4 | 5725.0 | 5716.8 |
| 12.5° | 5719.6  | 5683.8  | 5620.7 | 5626.2 | 5653.7 | 5716.8 | 5788.3 | 5832.2 | 5859.7 | 5887.2 | 5898.2 |
| 15°   | 5909.1  | 5846.0  | 5777.3 | 5777.3 | 5826.7 | 5895.4 | 5928.4 | 5964.1 | 5980.6 | 6010.8 | 6021.8 |
| 17.5° | 6104.2  | 6021.8  | 5931.2 | 5925.6 | 5986.1 | 6019.0 | 6038.3 | 6043.7 | 6049.2 | 6082.2 | 6093.2 |
| 20°   | 6299.2  | 6208.6  | 6079.5 | 6068.5 | 6082.2 | 6076.7 | 6073.9 | 6068.5 | 6076.7 | 6117.9 | 6134.4 |
| 22.5° | 6491.5  | 6387.2  | 6208.6 | 6159.1 | 6120.7 | 6068.5 | 6065.7 | 6063.0 | 6068.5 | 6109.7 | 6137.2 |
| 25°   | 6716.8  | 6590.4  | 6351.4 | 6203.1 | 6073.9 | 6002.5 | 6010.8 | 6013.6 | 6019.0 | 6052.0 | 6096.0 |
| 27.5° | 6961.3  | 6821.2  | 6483.3 | 6189.4 | 5955.9 | 5906.4 | 5892.6 | 5900.9 | 5920.1 | 5972.4 | 6024.5 |
| 30°   | 7205.7  | 7040.9  | 6604.2 | 6134.4 | 5807.5 | 5738.8 | 5694.9 | 5714.1 | 5774.5 | 5826.7 | 5884.4 |
| 32.5° | 7428.3  | 7263.5  | 6700.3 | 6013.6 | 5617.9 | 5510.8 | 5453.1 | 5477.8 | 5538.3 | 5557.5 | 5626.2 |
| 35°   | 7689.3  | 7502.5  | 6741.5 | 5821.3 | 5411.9 | 5247.1 | 5170.2 | 5134.4 | 5164.7 | 5145.4 | 5205.9 |
| 37.5° | 7980.5  | 7785.5  | 6736.0 | 5568.5 | 5170.2 | 4980.6 | 4873.5 | 4738.9 | 4675.6 | 4609.7 | 4650.9 |
| 40°   | 8411.8  | 8131.6  | 6670.1 | 5263.6 | 4870.7 | 4697.7 | 4505.4 | 4277.3 | 4134.4 | 4005.4 | 4013.6 |
| 42.5° | 8999.7  | 8612.4  | 6549.2 | 4928.4 | 4532.9 | 4370.7 | 4109.7 | 3843.2 | 3618.0 | 3403.7 | 3384.6 |
| 45°   | 9876.1  | 9241.4  | 6398.2 | 4571.3 | 4167.4 | 4008.1 | 3725.2 | 3425.8 | 3170.2 | 2895.5 | 2862.5 |
| 47.5° | 11139.7 | 10087.5 | 6255.3 | 4164.7 | 3782.9 | 3637.2 | 3381.8 | 3104.3 | 2802.1 | 2535.6 | 2505.4 |
| 50°   | 12875.9 | 11301.9 | 6123.5 | 3769.1 | 3403.7 | 3293.8 | 3090.6 | 2807.6 | 2502.6 | 2288.4 | 2274.7 |
| 52.5° | 15084.6 | 12952.8 | 6068.5 | 3387.2 | 3049.4 | 3008.2 | 2846.0 | 2582.3 | 2293.8 | 2112.5 | 2098.8 |
| 55°   | 17620.3 | 14928.1 | 6068.5 | 3021.9 | 2738.9 | 2752.6 | 2640.0 | 2395.5 | 2145.5 | 1983.5 | 1967.0 |
| 57.5° | 20208.1 | 16928.0 | 5958.6 | 2684.0 | 2475.2 | 2532.9 | 2461.4 | 2247.2 | 2021.9 | 1854.3 | 1826.9 |
| 60°   | 22592.6 | 18603.8 | 5513.6 | 2376.3 | 2241.7 | 2332.4 | 2285.6 | 2101.6 | 1826.9 | 1686.7 | 1664.8 |
| 62.5° | 24425.0 | 19548.8 | 4656.5 | 2131.8 | 2049.4 | 2153.7 | 2129.0 | 1909.3 | 1791.2 | 1733.5 | 1714.2 |
| 65°   | 25342.5 | 19394.9 | 3560.3 | 1914.8 | 1887.3 | 2049.4 | 1997.2 | 1988.9 | 1895.5 | 1829.6 | 1807.6 |
| 67.5° | 24779.4 | 18070.9 | 2582.3 | 1755.4 | 1793.9 | 1953.2 | 2153.7 | 2186.7 | 2013.7 | 1884.6 | 1862.5 |
| 70°   | 22309.6 | 15675.3 | 1923.0 | 1604.3 | 1675.8 | 1956.0 | 2456.0 | 2288.4 | 1975.2 | 1824.1 | 1799.4 |
| 72.5° | 16971.9 | 11689.2 | 1491.7 | 1445.0 | 1521.9 | 1969.7 | 2590.6 | 2241.7 | 1865.3 | 2016.4 | 2000.0 |
| 75°   | 9705.7  | 6417.3  | 1197.7 | 1250.0 | 1329.6 | 1840.6 | 2521.9 | 2120.8 | 1780.1 | 1851.6 | 1851.6 |
| 77.5° | 3700.5  | 2467.0  | 989.0  | 1057.7 | 1068.7 | 1607.1 | 2412.0 | 2112.5 | 1695.0 | 1653.8 | 1508.2 |
| 80°   | 1282.9  | 964.2   | 818.7  | 840.6  | 826.9  | 1428.5 | 2313.1 | 1837.8 | 1387.3 | 1241.7 | 1200.5 |
| 82.5° | 524.7   | 480.7   | 648.3  | 620.8  | 587.9  | 1109.9 | 1868.1 | 1502.6 | 1134.6 | 1002.8 | 991.7  |
| 85°   | 228.1   | 304.9   | 428.6  | 376.4  | 340.6  | 769.2  | 1497.2 | 1271.9 | 958.8  | 826.9  | 824.1  |
| 87.5° | 46.7    | 115.4   | 181.3  | 170.4  | 175.8  | 513.7  | 1063.1 | 903.8  | 678.6  | 508.2  | 398.3  |
| 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)