

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: P964015

Luminaire Tested: **NVN-SB3B-730-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P964015  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB3B-730-U-T3-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13581.2 lumens  
Efficiency: N/A  
Efficacy: 124.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

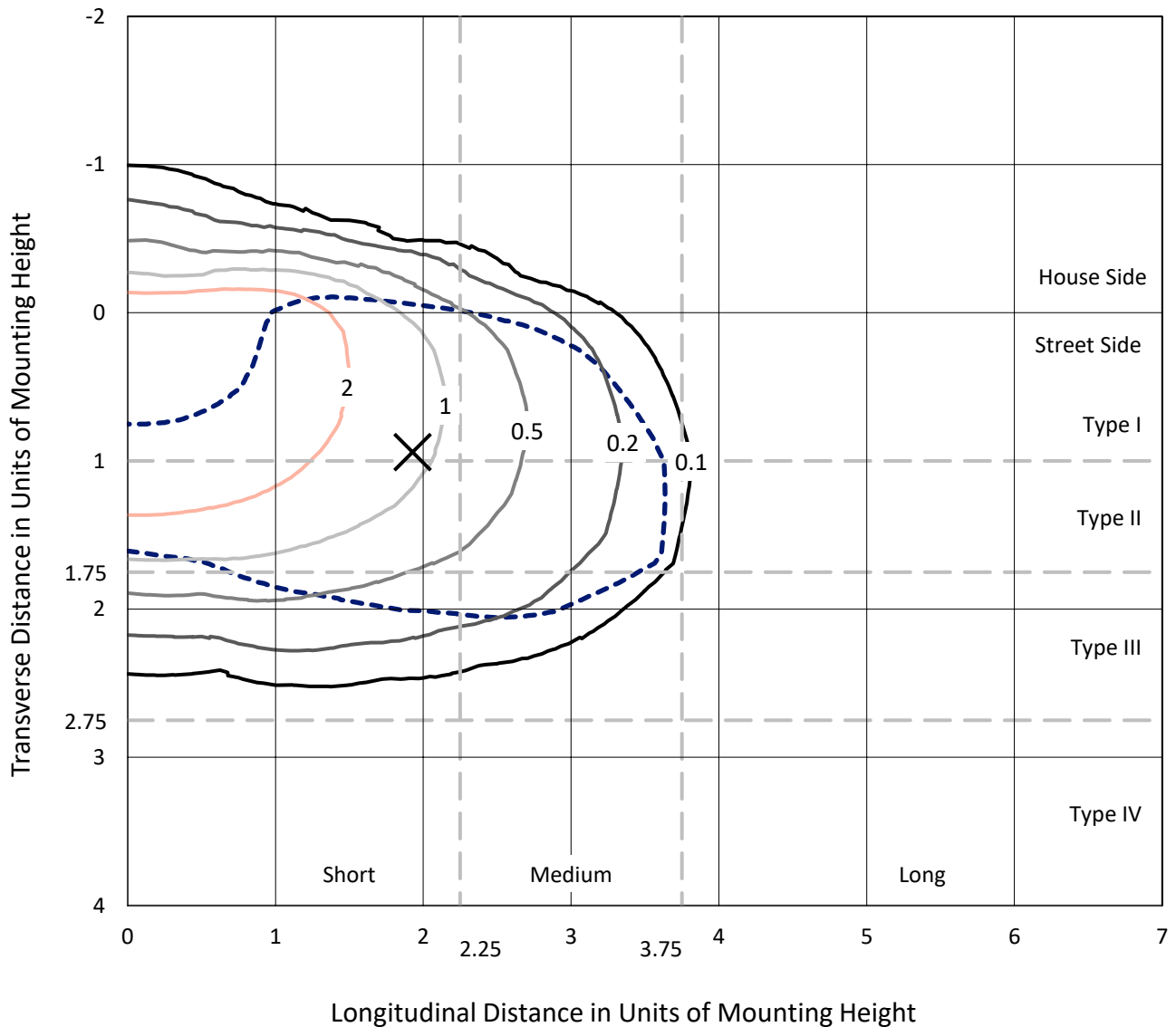
Input Watts (W): 109.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

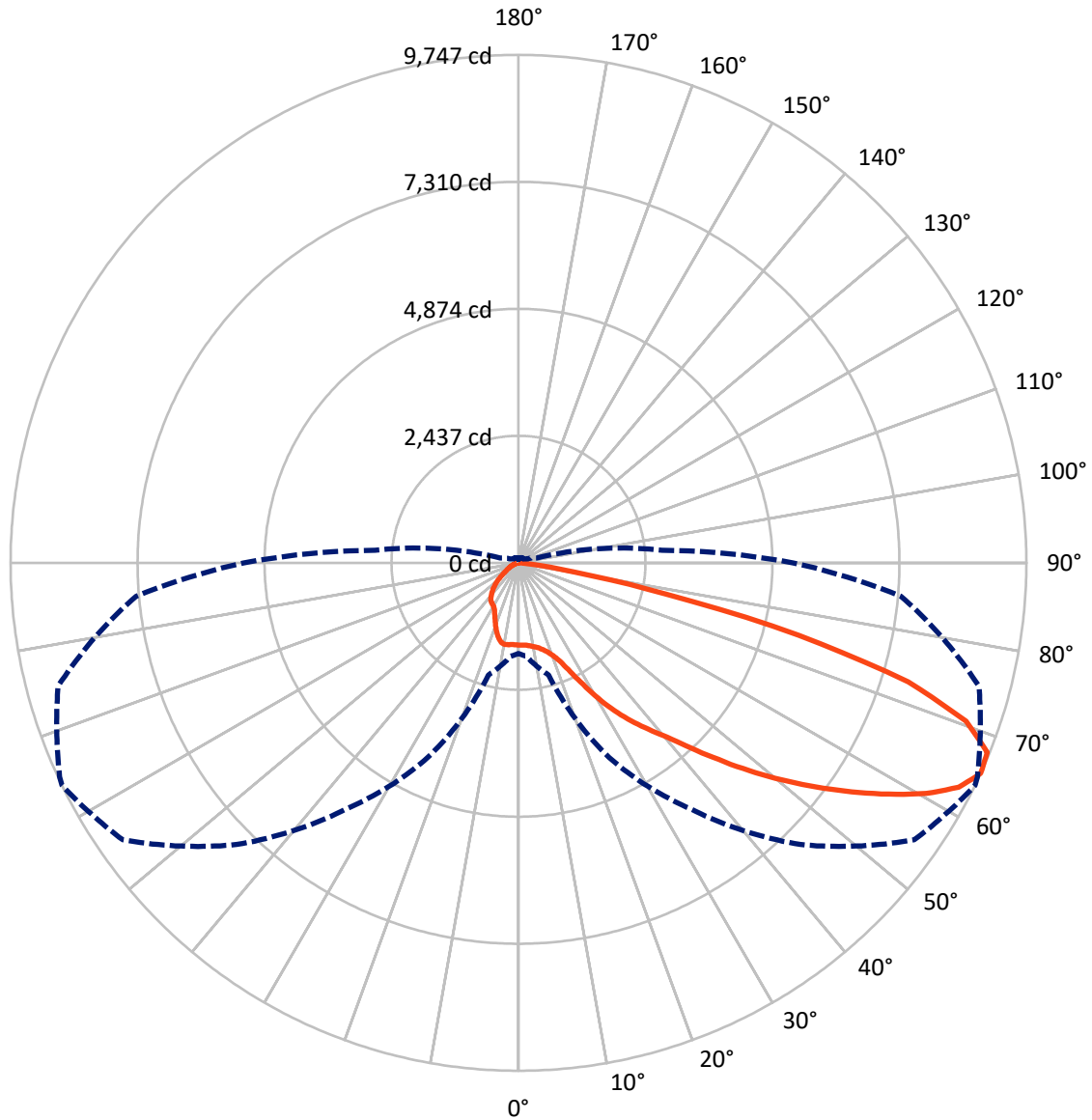
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1816.2   | 0.0    | 1816.2  |
|                    | % Fixture | 13.4     | 0.0    | 13.4    |
| <b>Street Side</b> | Lumens    | 11765.0  | 0.0    | 11765.0 |
|                    | % Fixture | 86.6     | 0.0    | 86.6    |
| <b>Total</b>       | Lumens    | 13581.2  | 0.0    | 13581.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 145.7   | 1.1       |
| 10°-20°   | 395.3   | 2.9       |
| 20°-30°   | 749.0   | 5.5       |
| 30°-40°   | 1515.7  | 11.2      |
| 40°-50°   | 2582.0  | 19.0      |
| 50°-60°   | 3511.3  | 25.9      |
| 60°-70°   | 3297.3  | 24.3      |
| 70°-80°   | 1321.0  | 9.7       |
| 80°-90°   | 64.0    | 0.5       |
| 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°    | 13581.2 | 100.0     |
| 0°-180°   | 13581.2 | 100.0     |

**Coefficient of Utilization**



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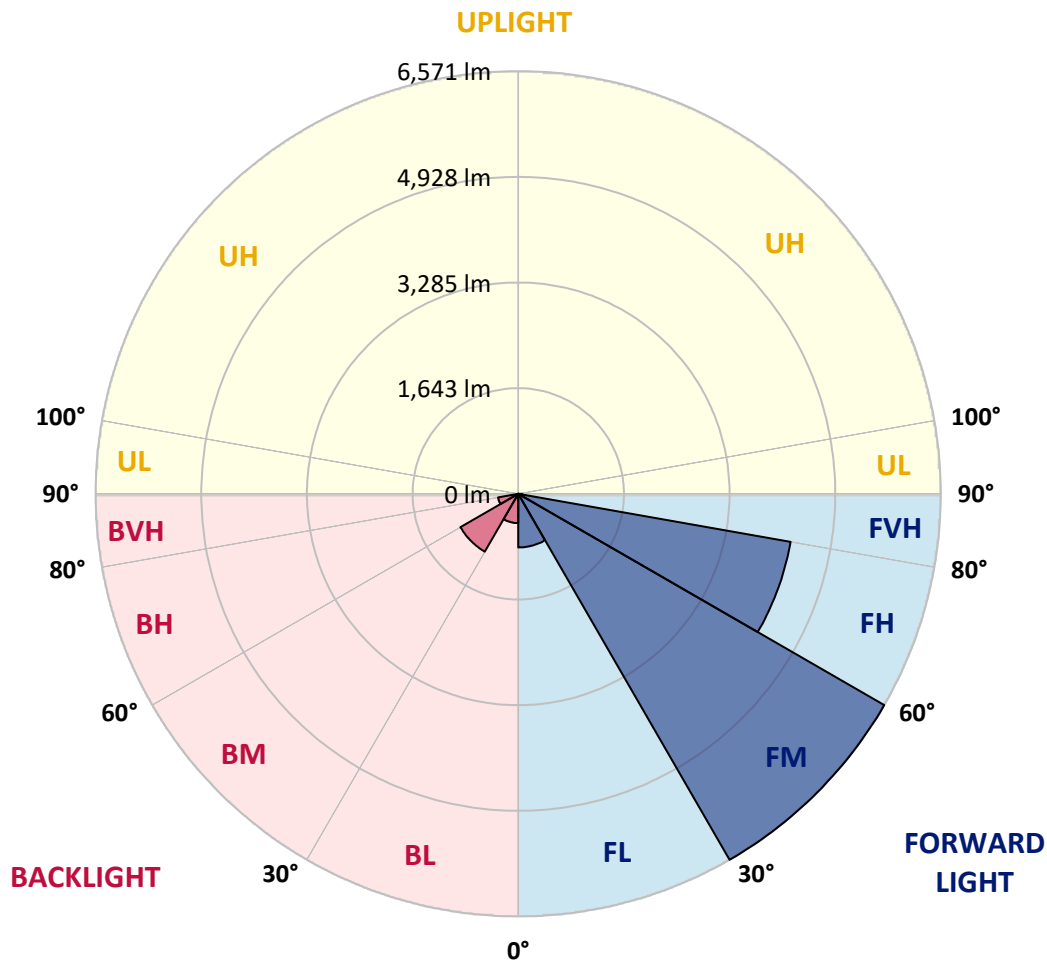
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 834.0  | 6.1       |                         |      |         |
| FM (30°-60°)   | 6570.6 | 48.4      |                         |      |         |
| FH (60°-80°)   | 4299.5 | 31.7      |                         |      | G2/5000 |
| FVH (80°-90°)  | 60.9   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 456.0  | 3.4       | B1/500                  |      |         |
| BM (30°-60°)   | 1038.3 | 7.6       | B2/2500                 |      |         |
| BH (60°-80°)   | 318.8  | 2.3       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 3.1    | 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-G2**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 64°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1579.6 | 1579.6 | 1579.6 | 1579.6 | 1579.6 | 1579.6 | 1579.6 | 1579.6 | 1579.6 | 1579.6 | 1579.6 |
| 2.5°  | 1574.2 | 1585.1 | 1582.4 | 1579.6 | 1578.7 | 1580.6 | 1581.5 | 1580.6 | 1580.6 | 1580.6 | 1581.5 |
| 5°    | 1544.2 | 1553.3 | 1553.3 | 1559.6 | 1568.8 | 1579.6 | 1587.8 | 1589.7 | 1591.5 | 1594.2 | 1593.3 |
| 7.5°  | 1486.8 | 1494.0 | 1499.5 | 1520.5 | 1543.2 | 1572.4 | 1596.9 | 1609.7 | 1611.5 | 1621.6 | 1625.1 |
| 10°   | 1447.6 | 1456.7 | 1465.9 | 1487.7 | 1520.5 | 1564.1 | 1606.1 | 1637.0 | 1641.5 | 1665.2 | 1676.2 |
| 12.5° | 1445.8 | 1454.9 | 1466.8 | 1490.5 | 1528.7 | 1575.1 | 1626.1 | 1670.6 | 1678.8 | 1713.5 | 1736.2 |
| 15°   | 1464.9 | 1475.9 | 1486.8 | 1515.9 | 1556.9 | 1613.4 | 1668.0 | 1723.5 | 1731.7 | 1780.8 | 1805.4 |
| 17.5° | 1504.1 | 1518.6 | 1526.8 | 1555.9 | 1599.7 | 1662.4 | 1734.4 | 1798.2 | 1805.4 | 1862.8 | 1893.8 |
| 20°   | 1581.5 | 1598.8 | 1601.5 | 1625.1 | 1668.0 | 1735.3 | 1820.9 | 1900.1 | 1909.3 | 1974.8 | 2009.4 |
| 22.5° | 1741.7 | 1766.3 | 1744.4 | 1756.2 | 1794.5 | 1861.9 | 1954.8 | 2054.9 | 2067.6 | 2142.4 | 2173.3 |
| 25°   | 2024.0 | 2058.5 | 2002.1 | 1982.0 | 1998.4 | 2068.6 | 2185.1 | 2311.7 | 2326.2 | 2386.3 | 2401.8 |
| 27.5° | 2578.4 | 2533.8 | 2448.2 | 2364.5 | 2315.3 | 2355.3 | 2486.4 | 2643.1 | 2661.3 | 2719.5 | 2701.3 |
| 30°   | 3187.5 | 3148.4 | 3032.8 | 2847.0 | 2730.5 | 2724.0 | 2845.2 | 3020.0 | 3041.0 | 3096.4 | 3041.0 |
| 32.5° | 3797.5 | 3760.2 | 3634.5 | 3406.0 | 3203.8 | 3103.7 | 3187.5 | 3381.5 | 3392.3 | 3427.9 | 3345.9 |
| 35°   | 4397.5 | 4359.2 | 4233.7 | 3999.7 | 3751.1 | 3523.4 | 3507.0 | 3725.6 | 3729.3 | 3766.6 | 3644.6 |
| 37.5° | 5001.2 | 4969.3 | 4835.4 | 4606.0 | 4361.1 | 4047.0 | 3894.9 | 4051.5 | 4056.1 | 4092.5 | 3965.9 |
| 40°   | 5431.8 | 5445.4 | 5353.5 | 5175.9 | 4965.6 | 4622.3 | 4330.1 | 4398.4 | 4371.1 | 4432.1 | 4356.6 |
| 42.5° | 5801.4 | 5828.8 | 5748.6 | 5659.4 | 5537.4 | 5235.1 | 4869.2 | 4857.3 | 4813.6 | 4846.4 | 4768.1 |
| 45°   | 6121.0 | 6143.7 | 6071.8 | 6050.9 | 6048.1 | 5836.0 | 5458.2 | 5387.2 | 5326.2 | 5319.7 | 5226.1 |
| 47.5° | 6238.5 | 6282.1 | 6313.1 | 6383.2 | 6519.8 | 6430.5 | 6067.3 | 5957.1 | 5888.8 | 5838.7 | 5690.4 |
| 50°   | 6283.0 | 6329.5 | 6435.1 | 6639.0 | 6962.2 | 7000.4 | 6673.7 | 6549.9 | 6466.0 | 6375.0 | 6156.5 |
| 52.5° | 6223.0 | 6305.8 | 6447.9 | 6791.1 | 7260.0 | 7457.6 | 7255.5 | 7147.1 | 7051.5 | 6903.1 | 6579.0 |
| 55°   | 5868.8 | 5951.7 | 6242.0 | 6789.3 | 7408.4 | 7778.0 | 7805.4 | 7757.1 | 7649.7 | 7415.7 | 6920.4 |
| 57.5° | 5122.2 | 5245.1 | 5704.9 | 6558.1 | 7405.6 | 8053.9 | 8344.3 | 8379.0 | 8258.7 | 7923.7 | 7188.9 |
| 60°   | 4087.9 | 4254.6 | 4815.4 | 6045.4 | 7177.2 | 8203.2 | 8816.8 | 8989.9 | 8862.4 | 8424.5 | 7406.5 |
| 62.5° | 2852.5 | 3045.5 | 3576.2 | 5242.4 | 6654.5 | 8095.8 | 9162.0 | 9481.5 | 9385.0 | 8872.4 | 7490.3 |
| 65°   | 1739.8 | 1801.7 | 2229.7 | 4125.3 | 5765.9 | 7646.0 | 9268.5 | 9747.3 | 9715.5 | 9146.5 | 7366.5 |
| 67.5° | 1159.0 | 1210.9 | 1333.8 | 2828.8 | 4475.8 | 6747.4 | 9013.5 | 9700.9 | 9710.0 | 9101.8 | 6913.1 |
| 70°   | 698.3  | 742.9  | 823.1  | 1645.2 | 2900.7 | 5340.8 | 8224.2 | 9109.1 | 9162.0 | 8505.4 | 6053.6 |
| 72.5° | 287.7  | 317.8  | 390.6  | 745.7  | 1502.2 | 3389.7 | 6548.9 | 7820.9 | 7943.7 | 7151.6 | 4646.0 |
| 75°   | 163.0  | 178.5  | 229.4  | 374.2  | 651.9  | 1579.6 | 3966.9 | 5551.9 | 5733.1 | 4929.2 | 2795.1 |
| 77.5° | 108.3  | 115.6  | 148.4  | 242.2  | 367.0  | 538.9  | 1695.2 | 2892.5 | 3238.5 | 2692.3 | 1210.0 |
| 80°   | 72.9   | 79.2   | 102.0  | 162.1  | 238.5  | 231.2  | 539.9  | 1071.6 | 1318.4 | 925.1  | 295.0  |
| 82.5° | 49.2   | 50.1   | 72.9   | 106.5  | 151.1  | 112.0  | 159.3  | 333.2  | 418.8  | 267.6  | 112.0  |
| 85°   | 28.2   | 27.3   | 53.7   | 61.9   | 67.3   | 46.4   | 48.3   | 100.1  | 131.1  | 112.9  | 63.8   |
| 87.5° | 3.7    | 5.4    | 20.9   | 16.4   | 9.1    | 10.0   | 10.0   | 17.3   | 25.5   | 27.3   | 13.6   |
| 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°    | 1579.6 | 1579.6 | 1579.6 | 1579.6 | 1579.6 | 1579.6 | 1579.6 | 1579.6 | 1579.6 | 1579.6 | 1579.6 |
| 2.5°  | 1581.5 | 1580.6 | 1577.8 | 1575.1 | 1568.8 | 1565.1 | 1566.9 | 1565.1 | 1564.1 | 1565.1 | 1568.8 |
| 5°    | 1593.3 | 1590.6 | 1583.3 | 1574.2 | 1561.4 | 1545.9 | 1536.0 | 1521.4 | 1507.7 | 1499.5 | 1501.3 |
| 7.5°  | 1625.1 | 1622.5 | 1612.4 | 1586.9 | 1545.9 | 1481.3 | 1422.1 | 1370.2 | 1331.1 | 1308.3 | 1309.2 |
| 10°   | 1676.2 | 1671.6 | 1656.1 | 1599.7 | 1492.2 | 1351.2 | 1233.7 | 1136.2 | 1072.6 | 1042.4 | 1039.8 |
| 12.5° | 1736.2 | 1730.8 | 1703.4 | 1587.8 | 1390.3 | 1169.9 | 1007.9 | 899.5  | 840.4  | 814.0  | 811.2  |
| 15°   | 1807.3 | 1800.0 | 1746.3 | 1531.4 | 1241.9 | 969.6  | 821.2  | 740.2  | 701.9  | 678.2  | 679.2  |
| 17.5° | 1895.5 | 1882.8 | 1778.2 | 1446.7 | 1080.8 | 816.7  | 706.5  | 645.5  | 611.8  | 589.1  | 587.2  |
| 20°   | 2010.3 | 1989.3 | 1803.6 | 1345.6 | 932.3  | 720.2  | 629.1  | 578.1  | 552.7  | 532.6  | 529.0  |
| 22.5° | 2170.5 | 2140.5 | 1834.5 | 1236.4 | 827.6  | 653.7  | 571.7  | 534.4  | 513.5  | 490.8  | 487.1  |
| 25°   | 2369.0 | 2333.5 | 1872.8 | 1135.3 | 755.6  | 596.3  | 529.9  | 499.0  | 474.4  | 447.9  | 445.3  |
| 27.5° | 2646.7 | 2583.0 | 1918.3 | 1052.5 | 693.7  | 547.1  | 491.7  | 457.0  | 428.9  | 406.9  | 402.4  |
| 30°   | 2956.2 | 2851.5 | 1958.4 | 1002.4 | 637.3  | 501.6  | 441.6  | 406.9  | 380.6  | 365.1  | 362.3  |
| 32.5° | 3249.5 | 3107.4 | 1984.8 | 980.5  | 586.3  | 449.8  | 386.9  | 349.6  | 329.5  | 325.0  | 327.8  |
| 35°   | 3526.2 | 3338.6 | 1982.0 | 959.6  | 540.8  | 397.9  | 333.2  | 295.0  | 279.5  | 282.3  | 282.3  |
| 37.5° | 3844.9 | 3585.3 | 1963.0 | 926.8  | 503.5  | 350.5  | 286.8  | 253.1  | 239.4  | 240.4  | 244.1  |
| 40°   | 4215.4 | 3870.3 | 1951.1 | 864.9  | 462.5  | 306.8  | 248.6  | 221.2  | 211.3  | 207.6  | 206.6  |
| 42.5° | 4610.6 | 4146.2 | 1952.9 | 794.8  | 411.5  | 267.6  | 222.1  | 199.4  | 190.2  | 187.6  | 186.7  |
| 45°   | 5007.5 | 4409.3 | 1955.7 | 722.0  | 357.8  | 237.6  | 203.1  | 183.9  | 178.5  | 174.8  | 174.8  |
| 47.5° | 5380.8 | 4633.3 | 1904.7 | 643.7  | 305.0  | 214.8  | 187.6  | 174.8  | 170.3  | 165.7  | 165.7  |
| 50°   | 5728.6 | 4782.6 | 1781.8 | 552.7  | 263.1  | 196.7  | 175.7  | 166.6  | 162.1  | 157.5  | 157.5  |
| 52.5° | 5999.0 | 4806.3 | 1578.7 | 458.9  | 234.0  | 183.0  | 168.4  | 160.2  | 154.8  | 150.3  | 149.3  |
| 55°   | 6119.1 | 4657.9 | 1290.1 | 371.5  | 211.3  | 171.2  | 161.1  | 152.9  | 146.6  | 142.1  | 141.1  |
| 57.5° | 6088.2 | 4345.6 | 1006.0 | 298.6  | 189.4  | 159.3  | 152.0  | 146.6  | 139.3  | 132.0  | 131.1  |
| 60°   | 5936.2 | 3927.7 | 758.4  | 248.6  | 169.3  | 146.6  | 142.1  | 137.5  | 127.5  | 116.5  | 114.7  |
| 62.5° | 5673.1 | 3402.4 | 540.8  | 205.7  | 147.5  | 132.0  | 130.2  | 126.6  | 112.0  | 91.9   | 90.1   |
| 65°   | 5270.7 | 2764.1 | 364.2  | 171.2  | 126.6  | 115.6  | 116.5  | 110.2  | 91.0   | 68.3   | 66.4   |
| 67.5° | 4682.5 | 2021.2 | 233.1  | 140.2  | 105.6  | 96.6   | 97.4   | 93.8   | 77.4   | 58.2   | 55.6   |
| 70°   | 3933.1 | 1338.3 | 152.0  | 106.5  | 84.7   | 74.6   | 80.2   | 81.1   | 65.6   | 47.4   | 45.5   |
| 72.5° | 2883.4 | 790.3  | 106.5  | 79.2   | 61.9   | 51.9   | 65.6   | 67.3   | 52.8   | 35.5   | 33.7   |
| 75°   | 1643.4 | 375.2  | 80.2   | 57.4   | 38.2   | 36.4   | 50.9   | 50.9   | 36.4   | 23.7   | 21.8   |
| 77.5° | 690.1  | 156.6  | 56.5   | 37.3   | 21.8   | 20.9   | 34.6   | 31.9   | 18.2   | 11.0   | 11.0   |
| 80°   | 199.4  | 70.1   | 30.0   | 18.2   | 9.1    | 8.2    | 13.6   | 10.0   | 4.5    | 1.8    | 1.8    |
| 82.5° | 78.3   | 31.0   | 11.8   | 7.3    | 3.7    | 3.7    | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 46.4   | 12.7   | 5.4    | 2.8    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 11.8   | 2.8    | 1.8    | 0.0    | 0.0    | 0.0    | 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)