

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: P882914

Luminaire Tested: **NVN-SB3A-735-U-SL4**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882914  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB3A-735-U-SL4  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

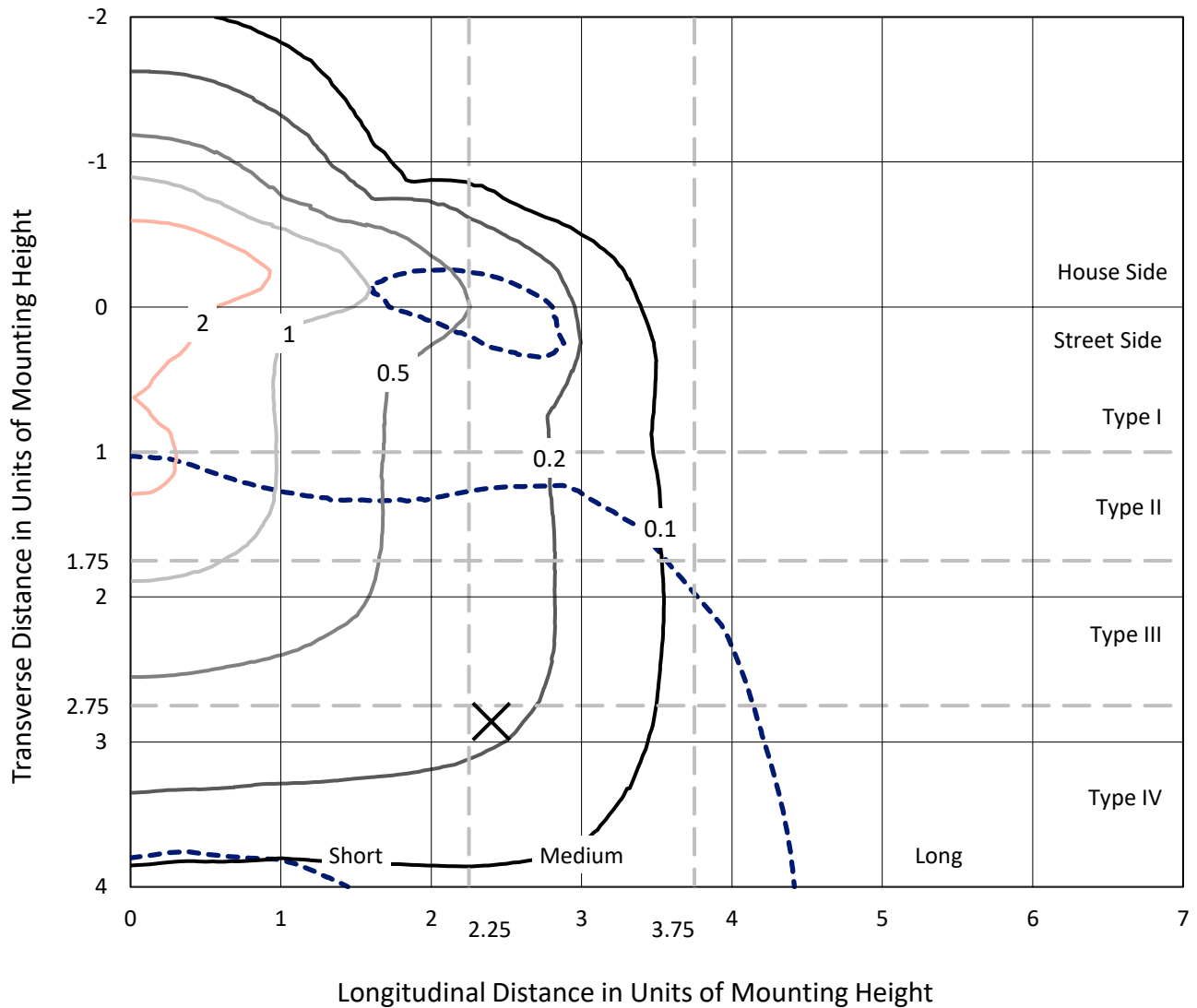
Lumens per Lamp: N/A  
Luminaire Lumens: 13337 lumens  
Efficiency: N/A  
Efficacy: 157.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 84.7  
Input Voltage (V): 120.0  
Input Current (Ain): 0.717  
Voltage Rise (V): NR  
Power Factor: 0.99  
Total Harmonic Distortion (THDi): 11.969  
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

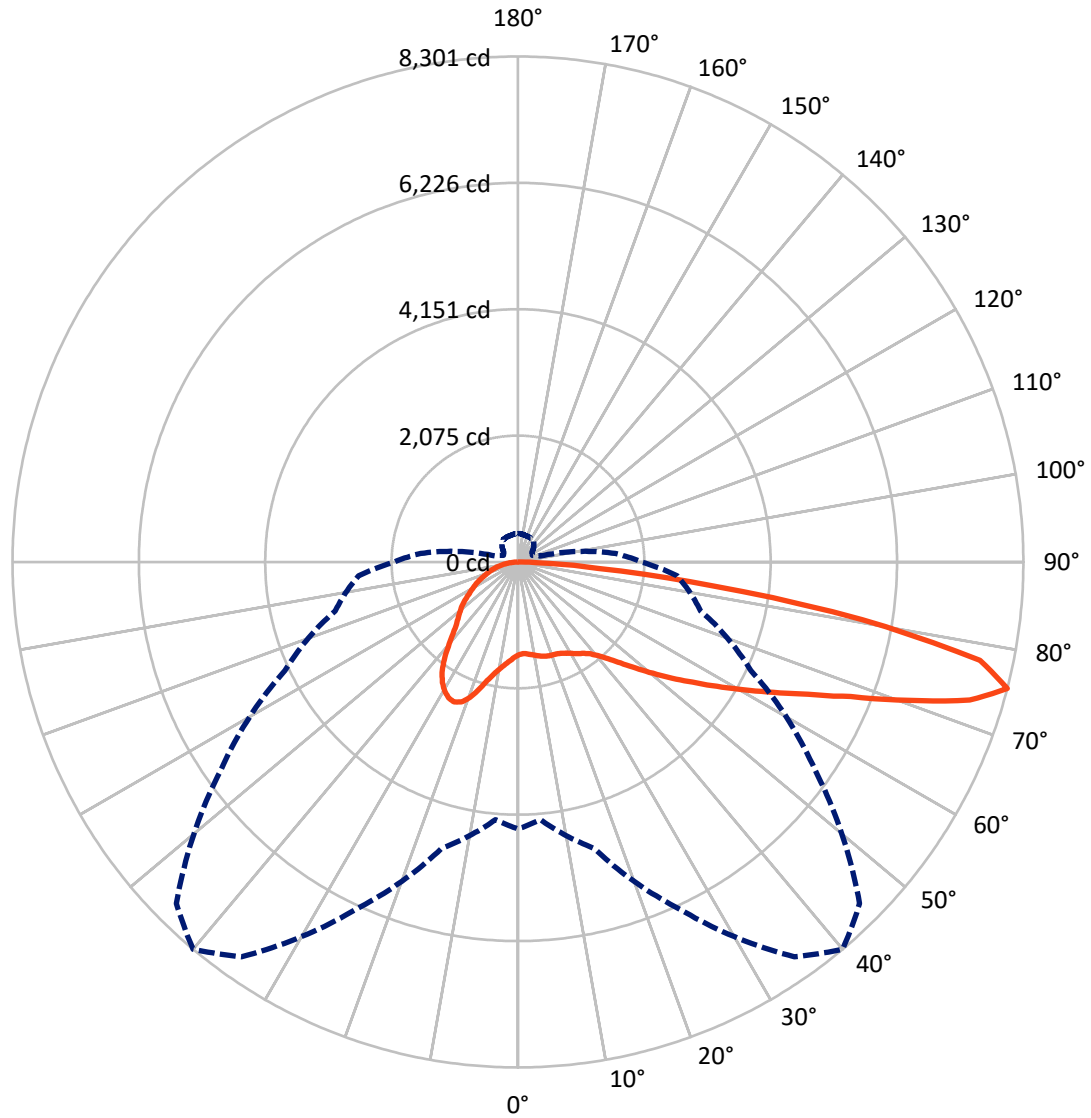
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4132.2   | 0.0    | 4132.2  |
|                    | % Fixture | 31.0     | 0.0    | 31.0    |
| <b>Street Side</b> | Lumens    | 9204.8   | 0.0    | 9204.8  |
|                    | % Fixture | 69.0     | 0.0    | 69.0    |
| <b>Total</b>       | Lumens    | 13337.0  | 0.0    | 13337.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 152.2   | 1.1       |
| 10°-20°   | 511.1   | 3.8       |
| 20°-30°   | 933.3   | 7.0       |
| 30°-40°   | 1323.6  | 9.9       |
| 40°-50°   | 1787.3  | 13.4      |
| 50°-60°   | 2404.4  | 18.0      |
| 60°-70°   | 3051.7  | 22.9      |
| 70°-80°   | 2769.6  | 20.8      |
| 80°-90°   | 403.7   | 3.0       |
| 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°    | 13337.0 | 100.0     |
| 0°-180°   | 13337.0 | 100.0     |

**Coefficient of Utilization**



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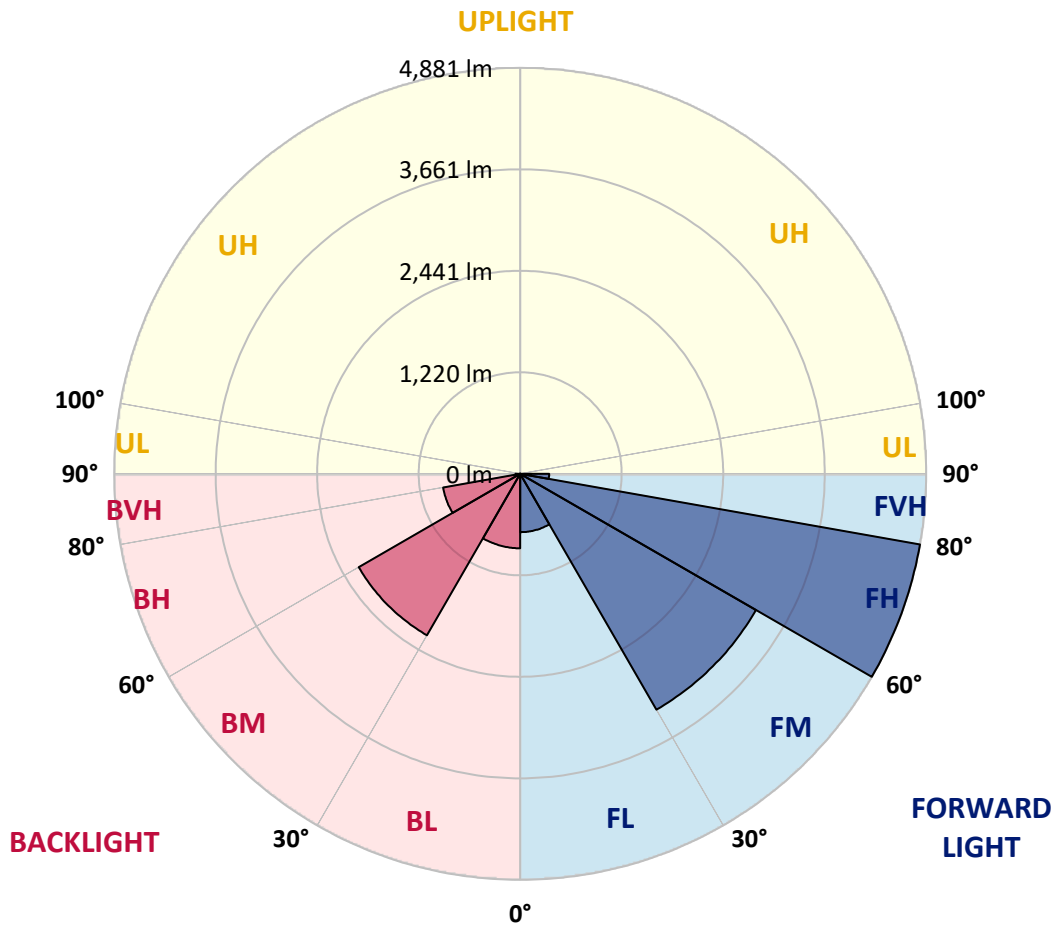
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 701.5  | 5.3       |                         |      |         |
| FM (30°-60°)   | 3273.9 | 24.5      |                         |      |         |
| FH (60°-80°)   | 4881.1 | 36.6      |                         |      | G2/5000 |
| FVH (80°-90°)  | 348.1  | 2.6       |                         |      | G3/500  |
| BL (0°-30°)    | 895.1  | 6.7       | B2/1000                 |      |         |
| BM (30°-60°)   | 2241.4 | 16.8      | B2/2500                 |      |         |
| BH (60°-80°)   | 940.2  | 7.0       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 55.6   | 0.4       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 40°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1525.1 | 1525.1 | 1525.1 | 1525.1 | 1525.1 | 1525.1 | 1525.1 | 1525.1 | 1525.1 | 1525.1 | 1525.1 |
| 2.5°  | 1501.8 | 1510.2 | 1508.1 | 1505.3 | 1505.3 | 1506.0 | 1505.3 | 1510.2 | 1515.2 | 1520.2 | 1527.9 |
| 5°    | 1517.3 | 1525.8 | 1521.6 | 1518.0 | 1515.2 | 1514.5 | 1512.4 | 1511.7 | 1514.5 | 1520.9 | 1531.5 |
| 7.5°  | 1547.7 | 1556.2 | 1549.9 | 1543.5 | 1537.8 | 1535.0 | 1532.2 | 1527.9 | 1525.8 | 1529.3 | 1544.2 |
| 10°   | 1581.7 | 1590.2 | 1582.4 | 1571.1 | 1561.9 | 1558.4 | 1555.5 | 1551.3 | 1548.4 | 1550.6 | 1566.8 |
| 12.5° | 1615.6 | 1624.1 | 1613.5 | 1598.0 | 1585.9 | 1583.8 | 1580.3 | 1578.9 | 1578.2 | 1577.4 | 1593.7 |
| 15°   | 1647.5 | 1654.6 | 1641.1 | 1622.7 | 1610.0 | 1606.5 | 1602.9 | 1605.0 | 1608.6 | 1612.8 | 1631.2 |
| 17.5° | 1672.2 | 1679.3 | 1659.5 | 1635.5 | 1623.4 | 1622.0 | 1619.9 | 1627.0 | 1636.9 | 1647.5 | 1670.1 |
| 20°   | 1694.9 | 1701.9 | 1676.5 | 1643.9 | 1629.8 | 1629.8 | 1630.5 | 1645.4 | 1659.5 | 1675.1 | 1706.2 |
| 22.5° | 1726.7 | 1732.4 | 1701.2 | 1656.7 | 1636.2 | 1637.6 | 1643.2 | 1658.1 | 1675.8 | 1697.0 | 1740.1 |
| 25°   | 1774.1 | 1778.3 | 1740.1 | 1680.7 | 1657.4 | 1661.6 | 1666.6 | 1673.7 | 1690.6 | 1715.4 | 1773.4 |
| 27.5° | 1850.5 | 1854.0 | 1803.8 | 1723.2 | 1687.8 | 1694.9 | 1701.9 | 1697.0 | 1704.8 | 1726.0 | 1800.3 |
| 30°   | 1958.0 | 1960.1 | 1896.5 | 1789.7 | 1739.4 | 1743.0 | 1744.4 | 1723.9 | 1709.0 | 1726.0 | 1819.4 |
| 32.5° | 2085.3 | 2084.6 | 2008.9 | 1870.3 | 1798.2 | 1794.6 | 1782.6 | 1742.3 | 1707.6 | 1722.5 | 1836.3 |
| 35°   | 2282.7 | 2274.9 | 2177.3 | 1983.5 | 1864.6 | 1842.7 | 1814.4 | 1762.8 | 1714.7 | 1718.9 | 1851.2 |
| 37.5° | 2609.5 | 2585.5 | 2450.4 | 2168.8 | 1963.7 | 1907.8 | 1866.1 | 1796.0 | 1730.2 | 1717.5 | 1868.9 |
| 40°   | 2978.1 | 2947.6 | 2799.1 | 2422.8 | 2112.2 | 2022.4 | 1955.2 | 1843.4 | 1755.7 | 1723.9 | 1895.1 |
| 42.5° | 3415.2 | 3372.1 | 3212.2 | 2722.0 | 2300.4 | 2170.2 | 2069.1 | 1903.6 | 1793.2 | 1744.4 | 1930.4 |
| 45°   | 3952.1 | 3894.8 | 3668.5 | 3059.4 | 2537.4 | 2364.1 | 2228.9 | 1994.8 | 1850.5 | 1784.0 | 1983.5 |
| 47.5° | 4494.7 | 4508.8 | 4187.0 | 3445.6 | 2821.7 | 2603.1 | 2429.1 | 2132.0 | 1934.0 | 1847.7 | 2069.1 |
| 50°   | 5071.2 | 5081.1 | 4702.6 | 3873.6 | 3144.3 | 2873.4 | 2654.1 | 2285.5 | 2050.0 | 1938.2 | 2197.1 |
| 52.5° | 5521.1 | 5522.5 | 5170.9 | 4321.4 | 3480.3 | 3170.5 | 2896.7 | 2461.0 | 2184.4 | 2058.5 | 2367.6 |
| 55°   | 5802.6 | 5799.1 | 5499.1 | 4745.1 | 3866.5 | 3482.4 | 3165.5 | 2660.4 | 2348.5 | 2199.9 | 2581.9 |
| 57.5° | 6007.0 | 5996.4 | 5725.5 | 5109.4 | 4278.2 | 3851.0 | 3469.7 | 2886.8 | 2542.3 | 2368.3 | 2864.2 |
| 60°   | 6084.9 | 6078.5 | 5879.0 | 5424.2 | 4711.1 | 4258.4 | 3820.5 | 3140.0 | 2762.3 | 2567.1 | 3227.1 |
| 62.5° | 6114.6 | 6126.6 | 6029.7 | 5729.0 | 5174.5 | 4709.7 | 4206.1 | 3442.8 | 3009.9 | 2792.0 | 3609.7 |
| 65°   | 6219.3 | 6241.2 | 6221.4 | 6128.0 | 5697.9 | 5238.1 | 4717.5 | 3802.9 | 3280.1 | 3033.2 | 4009.4 |
| 67.5° | 6426.5 | 6448.4 | 6456.9 | 6605.5 | 6337.4 | 5896.7 | 5355.5 | 4251.3 | 3596.3 | 3283.6 | 4310.0 |
| 70°   | 6421.6 | 6415.2 | 6565.2 | 6985.3 | 7138.1 | 6808.5 | 6215.7 | 4803.1 | 3973.3 | 3491.6 | 4348.2 |
| 72.5° | 5845.1 | 5794.1 | 6148.5 | 6981.1 | 7804.5 | 7760.6 | 7266.2 | 5514.7 | 4298.7 | 3517.1 | 3773.1 |
| 75°   | 4385.0 | 4249.2 | 4875.2 | 6291.4 | 7915.5 | 8301.1 | 7933.9 | 5956.1 | 4221.6 | 3107.5 | 2625.8 |
| 77.5° | 1875.3 | 1738.7 | 2476.5 | 4657.4 | 7084.4 | 7759.9 | 7321.3 | 5196.4 | 3369.9 | 2054.9 | 1289.5 |
| 80°   | 490.9  | 490.2  | 748.4  | 2111.5 | 4817.9 | 5730.5 | 5027.3 | 3355.8 | 1925.5 | 734.3  | 355.8  |
| 82.5° | 203.0  | 198.1  | 275.2  | 821.3  | 2354.1 | 3215.7 | 2624.4 | 1496.8 | 695.4  | 198.8  | 118.1  |
| 85°   | 75.7   | 75.0   | 133.7  | 283.7  | 830.5  | 1326.3 | 959.9  | 382.7  | 173.3  | 96.9   | 53.1   |
| 87.5° | 21.2   | 20.5   | 29.0   | 98.3   | 202.3  | 307.0  | 164.1  | 63.0   | 48.8   | 38.2   | 15.6   |
| 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°    | 1525.1 | 1525.1 | 1525.1 | 1525.1 | 1525.1 | 1525.1 | 1525.1 | 1525.1 | 1525.1 | 1525.1 | 1525.1 |
| 2.5°  | 1530.1 | 1533.6 | 1540.0 | 1544.9 | 1551.3 | 1558.4 | 1568.3 | 1574.6 | 1581.0 | 1585.2 | 1582.4 |
| 5°    | 1536.4 | 1544.2 | 1560.5 | 1576.7 | 1595.8 | 1613.5 | 1634.0 | 1648.9 | 1660.9 | 1664.5 | 1665.9 |
| 7.5°  | 1550.6 | 1563.3 | 1590.9 | 1618.5 | 1648.9 | 1677.9 | 1707.6 | 1733.1 | 1753.6 | 1761.4 | 1762.1 |
| 10°   | 1575.3 | 1592.3 | 1631.2 | 1670.1 | 1710.4 | 1755.0 | 1793.2 | 1830.0 | 1859.0 | 1871.0 | 1871.7 |
| 12.5° | 1606.5 | 1627.7 | 1678.6 | 1732.4 | 1788.2 | 1849.8 | 1899.3 | 1944.6 | 1980.7 | 1996.9 | 1996.9 |
| 15°   | 1646.8 | 1674.4 | 1739.4 | 1811.6 | 1893.6 | 1979.2 | 2042.2 | 2092.4 | 2132.7 | 2152.5 | 2151.1 |
| 17.5° | 1690.6 | 1727.4 | 1809.5 | 1918.4 | 2035.8 | 2148.3 | 2221.9 | 2258.7 | 2300.4 | 2319.5 | 2318.8 |
| 20°   | 1733.1 | 1778.3 | 1895.8 | 2054.2 | 2210.6 | 2330.1 | 2389.5 | 2399.4 | 2402.3 | 2404.4 | 2410.0 |
| 22.5° | 1776.9 | 1837.8 | 2004.0 | 2225.4 | 2393.1 | 2475.8 | 2484.3 | 2441.9 | 2382.4 | 2354.9 | 2362.6 |
| 25°   | 1825.0 | 1905.7 | 2145.5 | 2414.3 | 2550.1 | 2560.0 | 2494.9 | 2391.6 | 2279.2 | 2227.5 | 2235.3 |
| 27.5° | 1871.7 | 1984.2 | 2315.2 | 2594.7 | 2663.3 | 2576.3 | 2436.2 | 2289.8 | 2154.0 | 2099.5 | 2105.9 |
| 30°   | 1918.4 | 2074.0 | 2502.7 | 2752.4 | 2714.9 | 2535.9 | 2343.5 | 2180.1 | 2043.6 | 1986.3 | 1992.7 |
| 32.5° | 1965.8 | 2178.7 | 2718.4 | 2866.3 | 2705.7 | 2450.4 | 2228.2 | 2057.1 | 1936.8 | 1876.7 | 1884.5 |
| 35°   | 2019.6 | 2307.5 | 2922.9 | 2928.5 | 2644.2 | 2324.4 | 2076.2 | 1909.9 | 1805.2 | 1757.1 | 1767.7 |
| 37.5° | 2089.6 | 2470.9 | 3103.3 | 2944.1 | 2536.7 | 2139.8 | 1887.3 | 1735.9 | 1649.6 | 1627.7 | 1643.2 |
| 40°   | 2176.6 | 2667.5 | 3241.2 | 2919.3 | 2377.5 | 1915.6 | 1680.7 | 1559.8 | 1511.0 | 1515.9 | 1532.9 |
| 42.5° | 2289.8 | 2887.5 | 3338.1 | 2855.7 | 2156.1 | 1684.3 | 1499.6 | 1445.9 | 1469.2 | 1489.0 | 1507.4 |
| 45°   | 2436.9 | 3116.0 | 3398.2 | 2747.5 | 1905.7 | 1488.3 | 1392.8 | 1405.6 | 1423.2 | 1425.4 | 1439.5 |
| 47.5° | 2625.1 | 3347.3 | 3437.8 | 2584.0 | 1650.3 | 1350.4 | 1324.9 | 1327.7 | 1324.2 | 1309.4 | 1320.7 |
| 50°   | 2859.9 | 3572.3 | 3473.2 | 2367.6 | 1433.1 | 1264.1 | 1230.1 | 1220.2 | 1171.4 | 1123.3 | 1129.7 |
| 52.5° | 3127.3 | 3778.8 | 3488.1 | 2098.8 | 1264.1 | 1191.9 | 1136.8 | 1074.5 | 983.3  | 968.4  | 973.4  |
| 55°   | 3424.4 | 3969.8 | 3449.9 | 1768.4 | 1121.9 | 1099.3 | 1015.8 | 940.8  | 930.9  | 918.2  | 920.3  |
| 57.5° | 3779.5 | 4175.6 | 3372.1 | 1399.9 | 976.2  | 991.0  | 909.7  | 918.2  | 900.5  | 880.7  | 877.1  |
| 60°   | 4167.9 | 4388.6 | 3235.5 | 1063.9 | 825.5  | 855.9  | 882.1  | 881.4  | 876.4  | 860.2  | 854.5  |
| 62.5° | 4517.3 | 4528.6 | 2966.7 | 814.9  | 693.2  | 751.2  | 822.7  | 822.0  | 817.7  | 808.5  | 805.0  |
| 65°   | 4725.3 | 4507.4 | 2518.3 | 641.6  | 584.3  | 664.9  | 742.0  | 747.7  | 748.4  | 747.7  | 747.7  |
| 67.5° | 4688.5 | 4259.1 | 1902.8 | 510.7  | 494.5  | 577.2  | 662.1  | 669.9  | 675.5  | 677.0  | 678.4  |
| 70°   | 4272.6 | 3713.7 | 1240.7 | 407.4  | 414.5  | 500.1  | 586.4  | 594.2  | 599.1  | 604.8  | 607.6  |
| 72.5° | 3330.3 | 2730.5 | 710.2  | 329.6  | 344.5  | 433.6  | 511.4  | 520.6  | 523.5  | 534.1  | 538.3  |
| 75°   | 2029.5 | 1605.7 | 383.4  | 259.6  | 283.0  | 370.7  | 437.2  | 447.8  | 452.7  | 465.5  | 466.9  |
| 77.5° | 964.9  | 695.4  | 218.6  | 202.3  | 227.8  | 302.8  | 369.3  | 381.3  | 367.8  | 374.9  | 369.3  |
| 80°   | 326.1  | 258.2  | 137.9  | 154.2  | 174.0  | 236.3  | 295.7  | 307.7  | 279.4  | 278.0  | 275.2  |
| 82.5° | 113.9  | 104.7  | 87.7   | 102.6  | 112.5  | 169.1  | 223.5  | 239.1  | 208.0  | 207.3  | 197.4  |
| 85°   | 44.6   | 42.4   | 48.8   | 55.9   | 67.2   | 104.0  | 147.1  | 154.9  | 128.0  | 103.3  | 101.9  |
| 87.5° | 9.2    | 9.9    | 12.0   | 12.7   | 20.5   | 36.1   | 53.1   | 65.1   | 51.6   | 43.9   | 40.3   |
| 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)