

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: P960948

Luminaire Tested: **NVN-SB1D-750-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P960948  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB1D-750-U-T3R  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

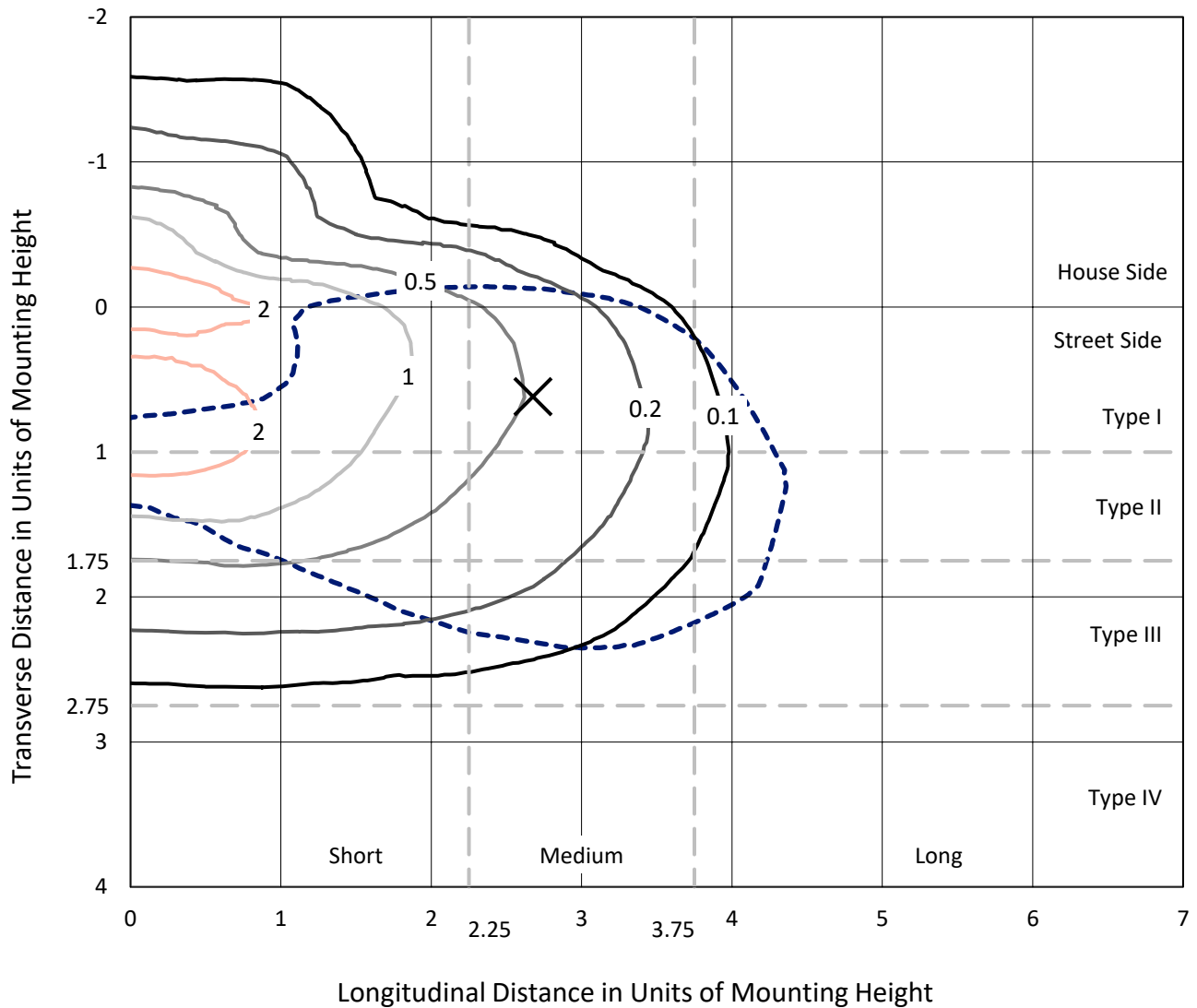
Lumens per Lamp: N/A  
Luminaire Lumens: 11332.4 lumens  
Efficiency: N/A  
Efficacy: 142.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): 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

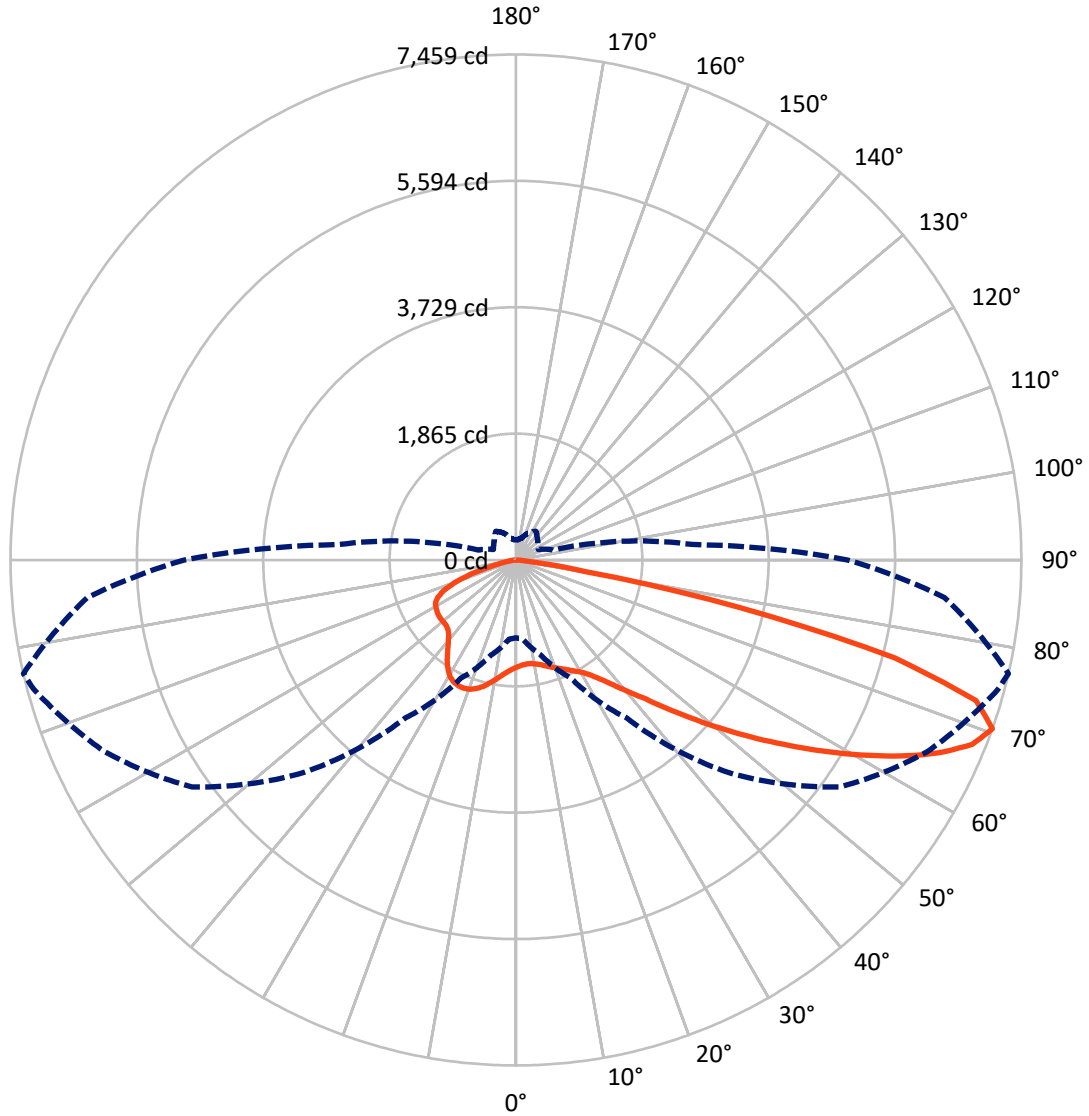
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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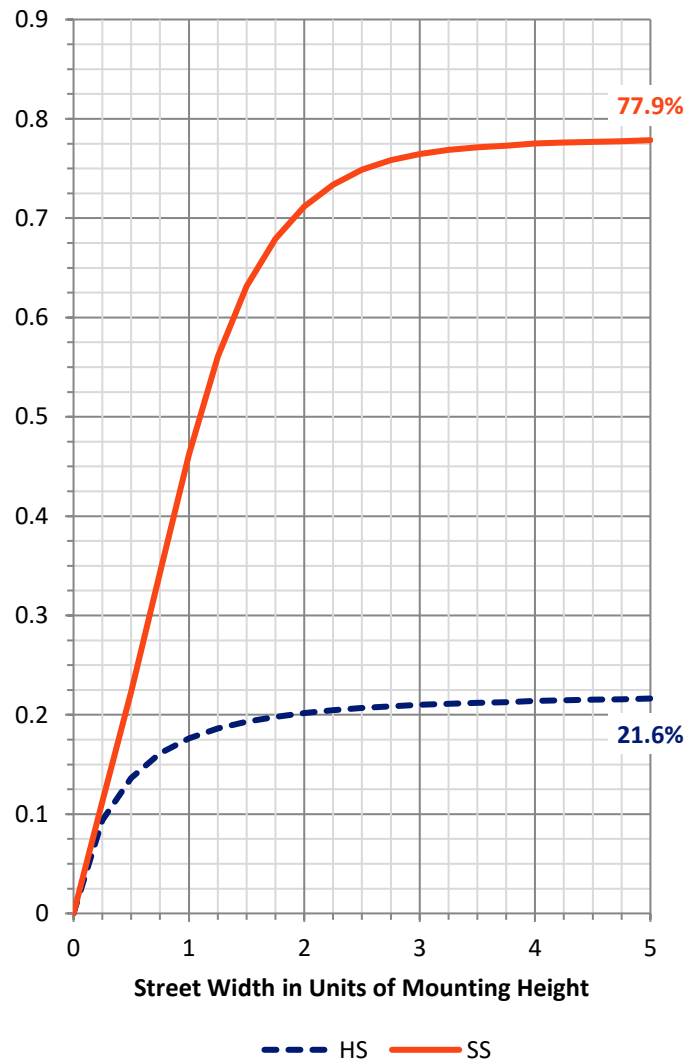
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2481.6   | 0.0    | 2481.6  |
|                    | % Fixture | 21.9     | 0.0    | 21.9    |
| <b>Street Side</b> | Lumens    | 8850.8   | 0.0    | 8850.8  |
|                    | % Fixture | 78.1     | 0.0    | 78.1    |
| <b>Total</b>       | Lumens    | 11332.4  | 0.0    | 11332.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 150.8   | 1.3       |
| 10°-20°   | 435.2   | 3.8       |
| 20°-30°   | 744.2   | 6.6       |
| 30°-40°   | 1196.8  | 10.6      |
| 40°-50°   | 1868.4  | 16.5      |
| 50°-60°   | 2495.8  | 22.0      |
| 60°-70°   | 2660.1  | 23.5      |
| 70°-80°   | 1637.6  | 14.5      |
| 80°-90°   | 143.5   | 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°    | 11332.4 | 100.0     |
| 0°-180°   | 11332.4 | 100.0     |

**Coefficient of Utilization**



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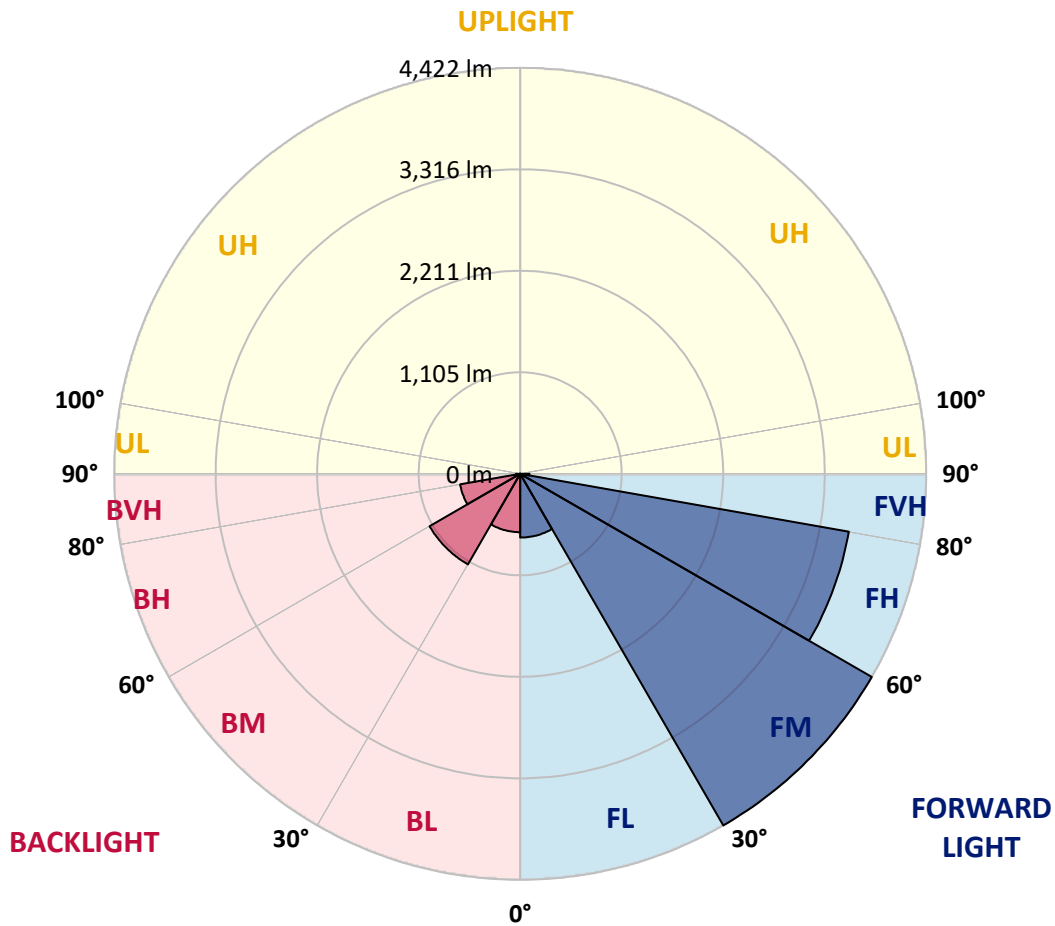
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 694.3  | 6.1       |                         |      |         |
| FM (30°-60°)   | 4421.6 | 39.0      |                         |      |         |
| FH (60°-80°)   | 3634.5 | 32.1      |                         |      | G2/5000 |
| FVH (80°-90°)  | 100.3  | 0.9       |                         |      | G2/225  |
| BL (0°-30°)    | 635.9  | 5.6       | B2/1000                 |      |         |
| BM (30°-60°)   | 1139.4 | 10.1      | B2/2500                 |      |         |
| BH (60°-80°)   | 663.2  | 5.9       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 43.2   | 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-G2**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 77°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1581.0 | 1581.0 | 1581.0 | 1581.0 | 1581.0 | 1581.0 | 1581.0 | 1581.0 | 1581.0 | 1581.0 | 1581.0 |
| 2.5°  | 1457.3 | 1456.7 | 1464.3 | 1466.7 | 1480.6 | 1490.5 | 1509.0 | 1528.8 | 1554.3 | 1557.2 | 1572.9 |
| 5°    | 1373.2 | 1373.2 | 1381.9 | 1391.2 | 1409.2 | 1429.0 | 1457.3 | 1491.6 | 1535.7 | 1542.6 | 1581.6 |
| 7.5°  | 1301.9 | 1306.5 | 1313.9 | 1332.0 | 1352.9 | 1381.3 | 1424.9 | 1473.6 | 1531.7 | 1542.6 | 1605.4 |
| 10°   | 1244.4 | 1249.6 | 1258.9 | 1273.4 | 1304.7 | 1344.2 | 1401.1 | 1463.7 | 1541.5 | 1558.9 | 1640.2 |
| 12.5° | 1226.3 | 1231.5 | 1236.8 | 1247.8 | 1276.8 | 1323.3 | 1391.2 | 1468.4 | 1565.3 | 1582.7 | 1687.8 |
| 15°   | 1268.1 | 1274.5 | 1270.5 | 1267.5 | 1282.7 | 1325.0 | 1395.8 | 1485.2 | 1594.9 | 1619.9 | 1746.4 |
| 17.5° | 1364.5 | 1366.8 | 1357.5 | 1330.2 | 1327.9 | 1350.5 | 1417.9 | 1508.4 | 1632.0 | 1659.4 | 1805.5 |
| 20°   | 1520.1 | 1516.0 | 1496.8 | 1442.8 | 1412.0 | 1407.4 | 1455.6 | 1543.2 | 1670.3 | 1699.3 | 1869.4 |
| 22.5° | 1731.3 | 1726.6 | 1688.4 | 1603.0 | 1534.5 | 1489.2 | 1510.1 | 1588.5 | 1713.3 | 1745.8 | 1931.5 |
| 25°   | 1994.8 | 1988.4 | 1932.1 | 1816.0 | 1709.8 | 1597.8 | 1584.4 | 1648.3 | 1766.1 | 1796.3 | 1996.5 |
| 27.5° | 2302.4 | 2297.1 | 2236.2 | 2083.0 | 1929.8 | 1746.4 | 1676.7 | 1718.5 | 1821.2 | 1855.5 | 2069.7 |
| 30°   | 2633.2 | 2648.3 | 2540.4 | 2375.5 | 2181.7 | 1940.2 | 1800.9 | 1805.0 | 1892.7 | 1923.4 | 2158.4 |
| 32.5° | 3022.1 | 3048.1 | 2918.2 | 2709.3 | 2444.6 | 2151.0 | 1957.6 | 1925.8 | 1996.5 | 2022.0 | 2270.5 |
| 35°   | 3407.4 | 3437.0 | 3329.1 | 3098.1 | 2793.4 | 2399.3 | 2121.3 | 2064.5 | 2134.7 | 2162.5 | 2419.1 |
| 37.5° | 3740.6 | 3780.1 | 3724.3 | 3523.5 | 3166.6 | 2698.8 | 2334.8 | 2227.5 | 2304.7 | 2339.6 | 2618.7 |
| 40°   | 4003.5 | 4063.8 | 4059.8 | 3934.5 | 3606.6 | 3062.1 | 2606.0 | 2428.9 | 2516.0 | 2553.7 | 2860.8 |
| 42.5° | 4217.1 | 4269.3 | 4314.6 | 4308.2 | 4065.6 | 3474.7 | 2924.5 | 2690.6 | 2756.8 | 2800.4 | 3132.9 |
| 45°   | 4364.6 | 4420.2 | 4517.7 | 4622.8 | 4507.2 | 3916.4 | 3289.6 | 3001.2 | 3061.6 | 3127.2 | 3457.3 |
| 47.5° | 4496.3 | 4559.5 | 4686.0 | 4852.7 | 4882.2 | 4359.8 | 3689.5 | 3362.7 | 3417.9 | 3485.8 | 3783.0 |
| 50°   | 4507.8 | 4562.4 | 4758.6 | 4994.8 | 5148.6 | 4785.8 | 4119.0 | 3768.4 | 3820.1 | 3892.6 | 4131.8 |
| 52.5° | 4227.5 | 4313.4 | 4655.9 | 4990.7 | 5271.1 | 5142.2 | 4545.6 | 4190.4 | 4248.4 | 4335.4 | 4492.8 |
| 55°   | 3281.5 | 3407.4 | 4354.6 | 4835.2 | 5227.5 | 5372.6 | 4951.3 | 4639.0 | 4713.4 | 4804.5 | 4856.1 |
| 57.5° | 2826.4 | 2881.6 | 3456.8 | 4551.9 | 5029.1 | 5432.4 | 5293.7 | 5092.3 | 5211.9 | 5311.7 | 5240.3 |
| 60°   | 2540.4 | 2586.2 | 2926.3 | 4111.5 | 4767.9 | 5337.8 | 5558.4 | 5514.8 | 5721.4 | 5840.4 | 5633.2 |
| 62.5° | 2233.9 | 2277.4 | 2586.8 | 3433.0 | 4433.5 | 5180.6 | 5725.5 | 5904.8 | 6243.8 | 6373.8 | 6003.5 |
| 65°   | 1929.8 | 1967.0 | 2263.5 | 2884.6 | 4008.8 | 5023.2 | 5812.0 | 6242.0 | 6727.3 | 6861.9 | 6311.1 |
| 67.5° | 1590.8 | 1621.6 | 1901.9 | 2433.6 | 3492.2 | 4808.0 | 5854.9 | 6507.3 | 7148.0 | 7263.6 | 6463.1 |
| 70°   | 1148.0 | 1171.8 | 1461.4 | 1924.5 | 2843.9 | 4437.6 | 5837.5 | 6695.3 | 7366.3 | 7458.5 | 6348.2 |
| 72.5° | 542.6  | 564.2  | 904.3  | 1249.6 | 2008.7 | 3716.8 | 5485.2 | 6546.2 | 7144.6 | 7098.7 | 5644.9 |
| 75°   | 289.6  | 308.2  | 519.5  | 685.4  | 1061.0 | 2547.9 | 4488.7 | 5639.0 | 5999.4 | 5776.6 | 4171.9 |
| 77.5° | 196.2  | 210.6  | 321.5  | 411.5  | 484.6  | 1209.5 | 2885.1 | 3904.2 | 3756.2 | 3388.3 | 2089.4 |
| 80°   | 155.5  | 170.7  | 263.5  | 278.6  | 234.5  | 437.1  | 1192.1 | 1807.3 | 1298.4 | 1038.3 | 594.3  |
| 82.5° | 119.5  | 136.4  | 221.7  | 201.9  | 127.7  | 179.4  | 347.1  | 571.6  | 332.6  | 253.1  | 143.9  |
| 85°   | 73.1   | 91.1   | 174.1  | 128.8  | 72.0   | 81.8   | 117.8  | 159.0  | 101.6  | 84.8   | 51.7   |
| 87.5° | 37.1   | 52.3   | 88.3   | 47.0   | 32.5   | 19.2   | 31.4   | 31.4   | 26.6   | 23.2   | 13.3   |
| 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°    | 1581.0 | 1581.0 | 1581.0 | 1581.0 | 1581.0 | 1581.0 | 1581.0 | 1581.0 | 1581.0 | 1581.0 | 1581.0 |
| 2.5°  | 1586.8 | 1598.4 | 1618.2 | 1636.7 | 1651.2 | 1665.1 | 1679.1 | 1686.6 | 1688.9 | 1698.2 | 1703.4 |
| 5°    | 1605.4 | 1626.8 | 1665.1 | 1701.1 | 1723.7 | 1737.7 | 1747.5 | 1753.4 | 1754.5 | 1757.4 | 1762.1 |
| 7.5°  | 1639.6 | 1673.8 | 1727.2 | 1763.2 | 1780.0 | 1778.9 | 1774.8 | 1760.3 | 1754.5 | 1749.3 | 1750.5 |
| 10°   | 1687.8 | 1733.1 | 1798.6 | 1823.6 | 1813.1 | 1785.2 | 1749.3 | 1706.9 | 1687.2 | 1668.0 | 1662.2 |
| 12.5° | 1747.5 | 1805.0 | 1869.4 | 1868.3 | 1816.6 | 1745.3 | 1661.6 | 1596.6 | 1555.4 | 1525.8 | 1518.8 |
| 15°   | 1820.1 | 1886.3 | 1935.6 | 1896.1 | 1783.0 | 1654.7 | 1532.2 | 1447.5 | 1410.3 | 1377.8 | 1374.3 |
| 17.5° | 1894.9 | 1965.7 | 1988.4 | 1887.4 | 1698.2 | 1520.6 | 1381.9 | 1315.2 | 1278.6 | 1261.2 | 1266.4 |
| 20°   | 1968.1 | 2038.3 | 2019.8 | 1837.5 | 1569.4 | 1368.6 | 1245.0 | 1208.4 | 1200.8 | 1204.9 | 1203.1 |
| 22.5° | 2045.3 | 2108.0 | 2026.1 | 1741.2 | 1405.1 | 1213.0 | 1145.1 | 1146.3 | 1163.1 | 1175.3 | 1178.1 |
| 25°   | 2124.2 | 2166.5 | 2009.3 | 1601.9 | 1228.7 | 1098.7 | 1081.9 | 1100.4 | 1133.4 | 1157.3 | 1163.7 |
| 27.5° | 2200.3 | 2218.8 | 1972.7 | 1429.5 | 1077.2 | 1016.8 | 1019.8 | 1058.0 | 1107.9 | 1141.0 | 1149.1 |
| 30°   | 2286.2 | 2265.2 | 1902.5 | 1235.6 | 972.1  | 946.6  | 971.0  | 1015.7 | 1065.6 | 1095.2 | 1102.2 |
| 32.5° | 2383.0 | 2305.3 | 1791.1 | 1056.3 | 897.9  | 890.3  | 930.4  | 959.4  | 981.4  | 990.1  | 994.8  |
| 35°   | 2503.8 | 2361.6 | 1648.3 | 930.4  | 831.1  | 849.1  | 887.4  | 872.9  | 864.2  | 859.6  | 864.2  |
| 37.5° | 2660.5 | 2437.7 | 1481.1 | 848.5  | 777.2  | 819.5  | 835.2  | 789.9  | 755.6  | 738.8  | 742.9  |
| 40°   | 2849.1 | 2549.1 | 1320.4 | 785.3  | 742.9  | 794.0  | 766.7  | 712.2  | 668.6  | 644.8  | 646.6  |
| 42.5° | 3058.6 | 2665.7 | 1185.1 | 737.7  | 723.8  | 773.1  | 716.2  | 651.2  | 581.0  | 573.4  | 581.0  |
| 45°   | 3278.6 | 2785.8 | 1092.9 | 701.1  | 714.4  | 755.1  | 687.2  | 582.1  | 532.2  | 562.9  | 579.2  |
| 47.5° | 3498.5 | 2896.1 | 1037.2 | 673.8  | 709.8  | 734.7  | 661.6  | 543.9  | 508.4  | 553.1  | 574.0  |
| 50°   | 3743.5 | 2994.8 | 1012.2 | 654.1  | 704.6  | 726.6  | 623.3  | 533.9  | 483.5  | 513.0  | 535.2  |
| 52.5° | 3986.6 | 3071.4 | 993.6  | 634.4  | 697.0  | 720.3  | 604.8  | 522.3  | 453.3  | 455.0  | 467.2  |
| 55°   | 4229.3 | 3121.3 | 973.3  | 608.2  | 680.2  | 706.3  | 603.0  | 509.6  | 430.6  | 422.5  | 428.3  |
| 57.5° | 4488.2 | 3149.7 | 948.3  | 579.2  | 651.2  | 671.0  | 601.3  | 499.7  | 423.6  | 410.3  | 412.0  |
| 60°   | 4751.6 | 3191.5 | 915.8  | 543.9  | 612.3  | 628.5  | 597.3  | 496.2  | 419.6  | 397.0  | 398.7  |
| 62.5° | 4987.9 | 3206.1 | 877.0  | 510.1  | 562.4  | 586.8  | 588.6  | 493.3  | 408.6  | 369.7  | 369.7  |
| 65°   | 5142.8 | 3143.4 | 809.0  | 471.8  | 508.4  | 543.9  | 571.6  | 483.5  | 388.9  | 349.9  | 349.9  |
| 67.5° | 5136.4 | 2964.6 | 702.8  | 422.5  | 456.2  | 496.2  | 547.3  | 466.6  | 365.1  | 325.6  | 327.4  |
| 70°   | 4897.3 | 2611.7 | 568.2  | 365.1  | 398.7  | 445.2  | 516.0  | 441.7  | 336.6  | 298.9  | 302.4  |
| 72.5° | 4200.2 | 2044.2 | 412.7  | 297.8  | 332.0  | 392.4  | 475.3  | 411.5  | 307.6  | 275.1  | 273.4  |
| 75°   | 3000.6 | 1293.7 | 279.7  | 228.7  | 258.3  | 332.6  | 424.9  | 376.1  | 281.0  | 276.2  | 260.6  |
| 77.5° | 1532.8 | 618.1  | 185.1  | 167.2  | 179.9  | 262.3  | 356.9  | 336.0  | 285.0  | 228.1  | 203.2  |
| 80°   | 498.6  | 228.1  | 116.6  | 113.8  | 119.5  | 174.7  | 276.2  | 275.7  | 215.9  | 155.0  | 136.9  |
| 82.5° | 159.0  | 98.1   | 76.1   | 73.1   | 70.2   | 109.7  | 192.7  | 218.2  | 145.7  | 98.1   | 97.5   |
| 85°   | 63.2   | 58.6   | 44.7   | 41.2   | 29.6   | 51.7   | 101.0  | 145.1  | 108.5  | 70.8   | 72.6   |
| 87.5° | 23.2   | 23.2   | 12.2   | 8.7    | 6.4    | 17.4   | 27.3   | 43.6   | 62.1   | 36.6   | 36.0   |
| 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)