

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: P962006

Luminaire Tested: **NVN-SB2B-750-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P962006  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB2B-750-U-T4W-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

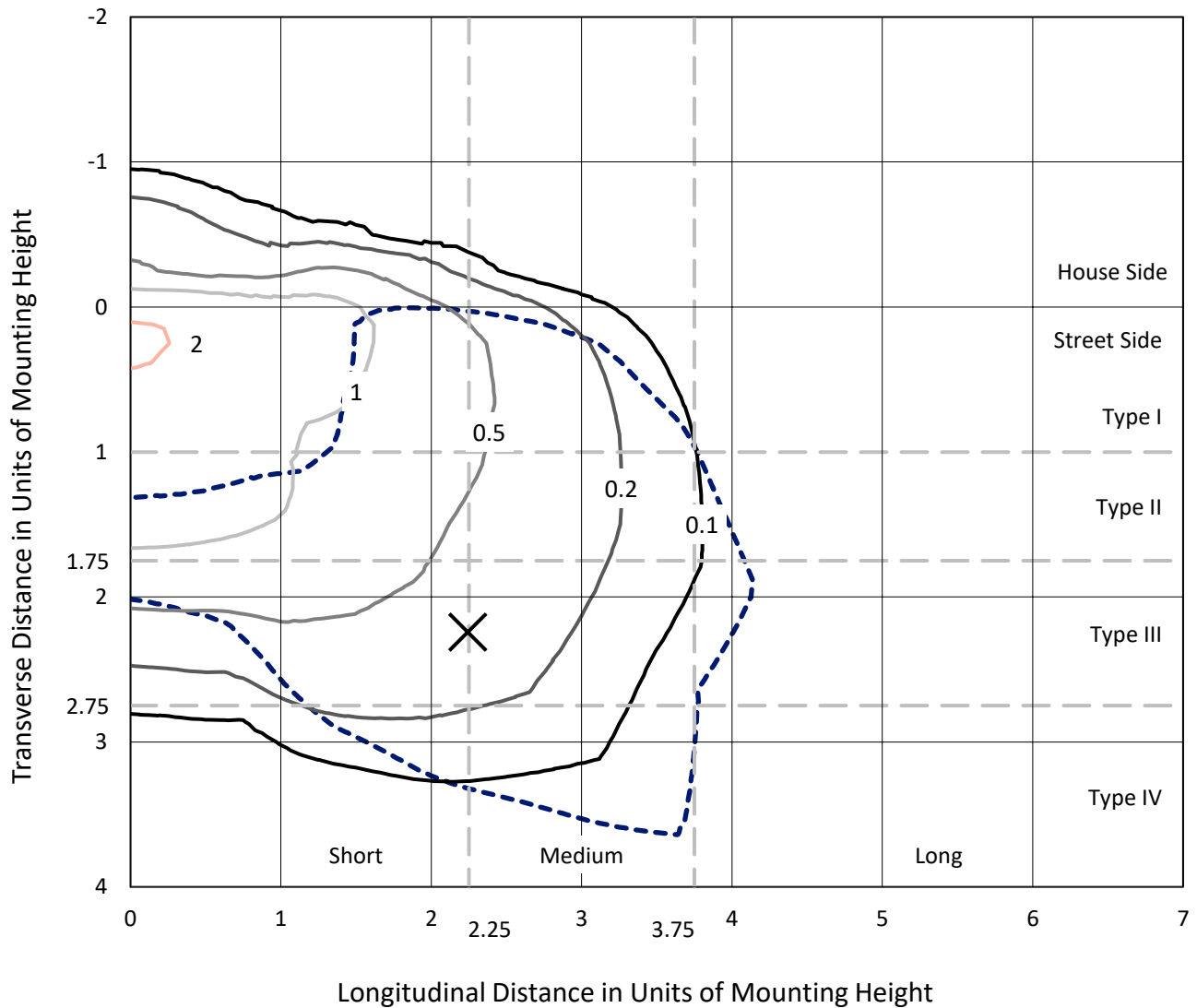
Lumens per Lamp: N/A  
Luminaire Lumens: 9406.4 lumens  
Efficiency: N/A  
Efficacy: 127.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

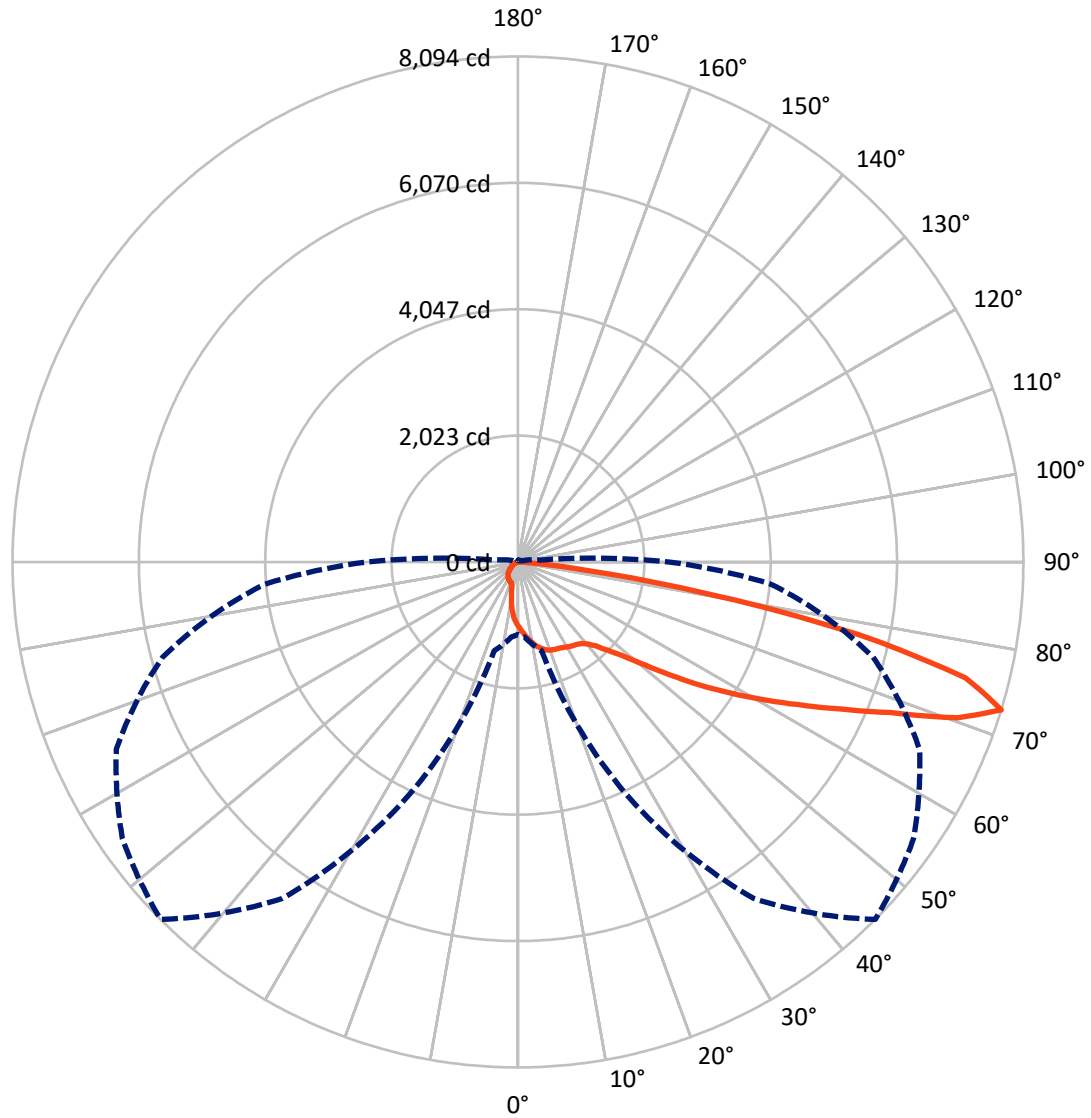
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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    | 988.4    | 0.0    | 988.4  |
|                    | % Fixture | 10.5     | 0.0    | 10.5   |
| <b>Street Side</b> | Lumens    | 8418.1   | 0.0    | 8418.1 |
|                    | % Fixture | 89.5     | 0.0    | 89.5   |
| <b>Total</b>       | Lumens    | 9406.4   | 0.0    | 9406.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 97.1   | 1.0       |
| 10°-20°   | 283.8  | 3.0       |
| 20°-30°   | 466.0  | 5.0       |
| 30°-40°   | 660.9  | 7.0       |
| 40°-50°   | 1092.4 | 11.6      |
| 50°-60°   | 1962.3 | 20.9      |
| 60°-70°   | 2724.7 | 29.0      |
| 70°-80°   | 1976.4 | 21.0      |
| 80°-90°   | 142.9  | 1.5       |
| 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°    | 9406.4 | 100.0     |
| 0°-180°   | 9406.4 | 100.0     |

**Coefficient of Utilization**



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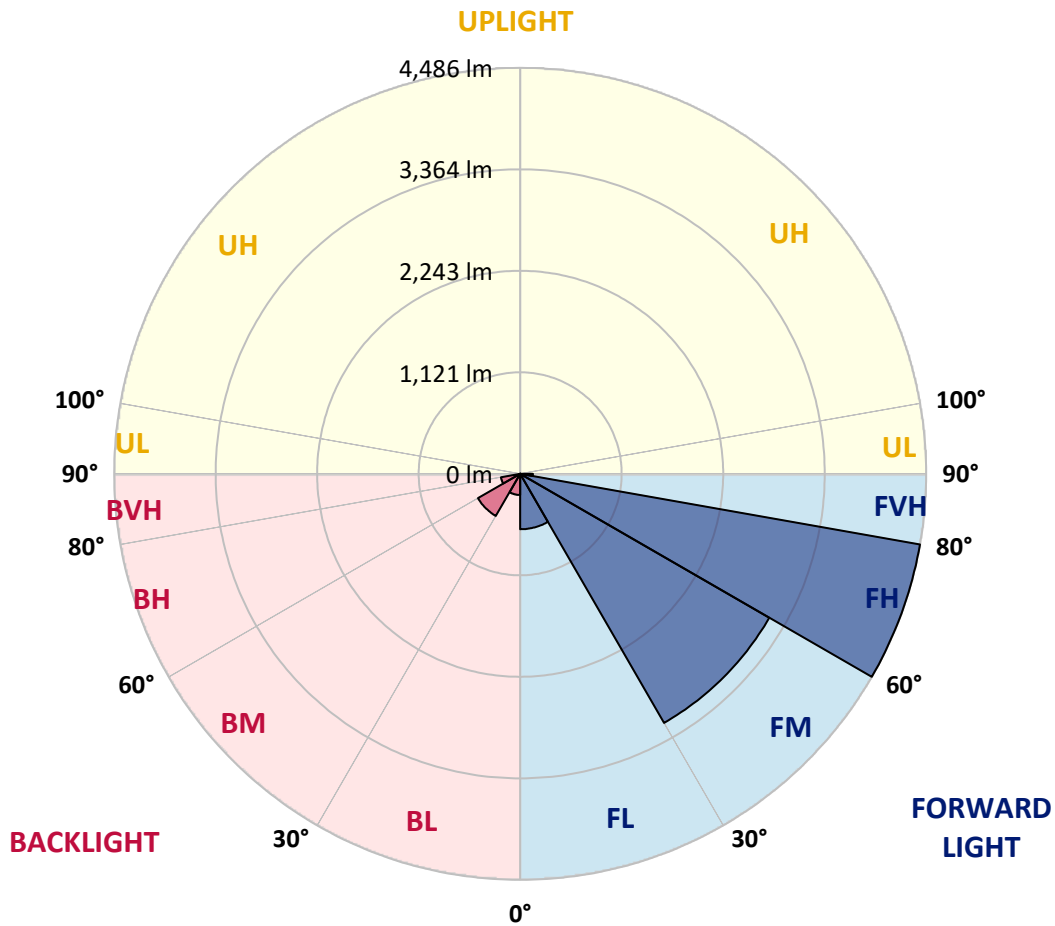
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 612.7  | 6.5       |                         |      |         |
| FM (30°-60°)   | 3178.0 | 33.8      |                         |      |         |
| FH (60°-80°)   | 4485.7 | 47.7      |                         |      | G2/5000 |
| FVH (80°-90°)  | 141.7  | 1.5       |                         |      | G2/225  |
| BL (0°-30°)    | 234.1  | 2.5       | B1/500                  |      |         |
| BM (30°-60°)   | 537.5  | 5.7       | B1/1000                 |      |         |
| BH (60°-80°)   | 215.5  | 2.3       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 1.2    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 46°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1030.5 | 1030.5 | 1030.5 | 1030.5 | 1030.5 | 1030.5 | 1030.5 | 1030.5 | 1030.5 | 1030.5 | 1030.5 |
| 2.5°  | 1125.6 | 1127.4 | 1126.2 | 1118.5 | 1105.6 | 1098.6 | 1094.7 | 1081.9 | 1073.5 | 1058.7 | 1043.3 |
| 5°    | 1228.9 | 1236.6 | 1232.0 | 1216.7 | 1192.3 | 1175.0 | 1169.8 | 1143.5 | 1119.7 | 1092.1 | 1060.1 |
| 7.5°  | 1338.6 | 1342.5 | 1334.1 | 1314.3 | 1281.6 | 1252.0 | 1247.5 | 1210.9 | 1173.0 | 1130.7 | 1087.0 |
| 10°   | 1433.7 | 1438.2 | 1425.4 | 1396.5 | 1359.3 | 1322.7 | 1316.2 | 1275.7 | 1230.8 | 1178.9 | 1123.0 |
| 12.5° | 1513.3 | 1517.8 | 1501.1 | 1466.5 | 1425.4 | 1387.4 | 1381.1 | 1338.6 | 1289.2 | 1231.4 | 1162.1 |
| 15°   | 1573.7 | 1582.0 | 1559.5 | 1522.3 | 1478.0 | 1440.1 | 1436.9 | 1395.2 | 1347.1 | 1282.8 | 1209.0 |
| 17.5° | 1608.9 | 1617.3 | 1596.1 | 1551.2 | 1513.3 | 1481.2 | 1477.3 | 1442.7 | 1397.8 | 1336.1 | 1254.6 |
| 20°   | 1614.8 | 1622.5 | 1600.0 | 1560.9 | 1529.4 | 1503.7 | 1501.7 | 1476.7 | 1444.0 | 1384.9 | 1304.0 |
| 22.5° | 1597.5 | 1607.1 | 1586.5 | 1555.0 | 1533.2 | 1519.8 | 1517.2 | 1503.1 | 1484.4 | 1434.4 | 1350.2 |
| 25°   | 1579.4 | 1587.1 | 1571.7 | 1544.2 | 1532.6 | 1531.2 | 1533.2 | 1530.6 | 1526.8 | 1484.4 | 1404.1 |
| 27.5° | 1578.2 | 1586.5 | 1569.2 | 1542.8 | 1536.5 | 1549.9 | 1551.8 | 1564.0 | 1567.2 | 1530.0 | 1456.2 |
| 30°   | 1589.1 | 1594.9 | 1578.2 | 1550.5 | 1547.3 | 1578.2 | 1578.8 | 1600.6 | 1605.8 | 1568.6 | 1507.6 |
| 32.5° | 1612.8 | 1619.3 | 1602.6 | 1562.1 | 1557.6 | 1600.6 | 1602.6 | 1631.5 | 1639.8 | 1609.7 | 1561.5 |
| 35°   | 1668.7 | 1676.4 | 1657.1 | 1594.2 | 1578.2 | 1621.9 | 1627.6 | 1661.6 | 1678.3 | 1653.3 | 1617.3 |
| 37.5° | 1808.0 | 1785.6 | 1759.2 | 1659.1 | 1625.0 | 1655.2 | 1664.8 | 1704.7 | 1734.2 | 1705.3 | 1684.1 |
| 40°   | 2154.0 | 2083.4 | 2001.3 | 1769.5 | 1707.2 | 1726.5 | 1734.2 | 1774.0 | 1814.5 | 1786.2 | 1775.9 |
| 42.5° | 2673.5 | 2590.1 | 2457.7 | 2023.8 | 1831.2 | 1840.8 | 1846.5 | 1881.2 | 1938.4 | 1915.9 | 1918.5 |
| 45°   | 3136.4 | 3106.3 | 2971.4 | 2457.7 | 2062.9 | 2015.4 | 2022.4 | 2040.5 | 2124.5 | 2116.2 | 2132.9 |
| 47.5° | 3492.1 | 3474.7 | 3370.8 | 2956.0 | 2454.6 | 2229.2 | 2249.2 | 2257.5 | 2378.8 | 2408.3 | 2453.2 |
| 50°   | 3765.6 | 3759.2 | 3666.1 | 3399.0 | 2966.2 | 2544.5 | 2551.5 | 2533.5 | 2715.2 | 2788.4 | 2873.8 |
| 52.5° | 4023.7 | 4045.6 | 3976.9 | 3810.5 | 3512.7 | 2957.3 | 2956.0 | 2871.2 | 3116.5 | 3226.9 | 3372.7 |
| 55°   | 4256.8 | 4264.5 | 4271.6 | 4230.5 | 4062.3 | 3427.3 | 3415.1 | 3276.4 | 3582.0 | 3696.3 | 3854.2 |
| 57.5° | 4475.8 | 4478.9 | 4541.9 | 4626.0 | 4634.3 | 3931.9 | 3909.5 | 3743.2 | 4090.5 | 4172.1 | 4269.0 |
| 60°   | 4622.8 | 4637.5 | 4770.5 | 5004.2 | 5106.2 | 4452.6 | 4440.4 | 4271.0 | 4608.0 | 4645.9 | 4627.9 |
| 62.5° | 4410.9 | 4500.8 | 4836.0 | 5299.5 | 5551.8 | 5029.9 | 5024.0 | 4864.9 | 5152.5 | 5121.6 | 4967.6 |
| 65°   | 3570.5 | 3722.6 | 4312.1 | 5499.2 | 5989.1 | 5674.5 | 5682.8 | 5513.3 | 5711.7 | 5611.6 | 5243.6 |
| 67.5° | 2497.6 | 2658.1 | 3355.3 | 5515.2 | 6477.7 | 6431.5 | 6479.6 | 6213.8 | 6305.6 | 6080.9 | 5309.1 |
| 70°   | 1727.1 | 1809.9 | 2263.9 | 5169.8 | 6858.4 | 7474.1 | 7472.9 | 7074.1 | 6896.3 | 6294.7 | 4975.2 |
| 72.5° | 1161.4 | 1204.5 | 1470.3 | 4101.4 | 6578.4 | 8093.7 | 8056.5 | 7731.6 | 7095.4 | 5887.0 | 4064.8 |
| 75°   | 489.8  | 521.3  | 680.6  | 2304.9 | 5204.4 | 7404.8 | 7303.9 | 6832.8 | 6304.3 | 4635.7 | 2536.2 |
| 77.5° | 155.4  | 168.8  | 268.3  | 825.0  | 2866.7 | 5566.0 | 5459.4 | 4267.1 | 4225.4 | 2325.5 | 927.1  |
| 80°   | 73.8   | 86.0   | 150.9  | 331.3  | 1128.1 | 3027.2 | 3012.5 | 1935.8 | 1817.6 | 627.9  | 186.2  |
| 82.5° | 32.1   | 37.9   | 83.4   | 177.2  | 504.6  | 1079.9 | 1101.8 | 658.8  | 545.1  | 238.2  | 57.1   |
| 85°   | 10.2   | 13.5   | 38.5   | 81.6   | 213.2  | 268.3  | 265.2  | 156.6  | 219.6  | 129.7  | 19.9   |
| 87.5° | 0.0    | 0.0    | 12.8   | 18.7   | 21.8   | 15.4   | 17.3   | 13.5   | 61.0   | 36.0   | 7.1    |
| 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°    | 1030.5 | 1030.5 | 1030.5 | 1030.5 | 1030.5 | 1030.5 | 1030.5 | 1030.5 | 1030.5 | 1030.5 | 1030.5 |
| 2.5°  | 1035.7 | 1025.3 | 1007.4 | 990.7  | 975.9  | 961.1  | 952.1  | 939.3  | 938.1  | 938.1  | 941.3  |
| 5°    | 1042.7 | 1026.0 | 993.9  | 959.9  | 920.7  | 883.4  | 846.2  | 810.3  | 798.7  | 790.4  | 794.2  |
| 7.5°  | 1063.2 | 1036.9 | 986.2  | 921.4  | 846.9  | 765.4  | 708.2  | 646.6  | 622.8  | 610.0  | 611.9  |
| 10°   | 1092.8 | 1056.8 | 979.8  | 866.1  | 745.4  | 634.4  | 552.8  | 486.1  | 460.3  | 449.5  | 449.5  |
| 12.5° | 1125.6 | 1081.2 | 968.2  | 797.4  | 634.4  | 501.4  | 421.8  | 391.0  | 387.1  | 387.1  | 387.1  |
| 15°   | 1164.7 | 1110.8 | 948.3  | 716.6  | 518.1  | 396.8  | 368.5  | 369.8  | 373.7  | 376.3  | 376.3  |
| 17.5° | 1205.1 | 1142.3 | 916.9  | 626.0  | 415.4  | 357.0  | 357.6  | 359.6  | 362.7  | 365.3  | 365.3  |
| 20°   | 1248.8 | 1173.6 | 875.1  | 529.7  | 356.3  | 345.4  | 347.4  | 349.3  | 351.9  | 353.1  | 353.7  |
| 22.5° | 1295.7 | 1203.2 | 825.6  | 435.3  | 336.4  | 335.8  | 336.4  | 338.4  | 341.5  | 341.5  | 342.9  |
| 25°   | 1345.7 | 1235.9 | 769.2  | 366.6  | 326.2  | 326.2  | 327.5  | 328.7  | 331.3  | 331.3  | 331.9  |
| 27.5° | 1397.1 | 1266.1 | 709.5  | 330.7  | 317.1  | 316.5  | 316.5  | 318.5  | 319.7  | 320.4  | 321.0  |
| 30°   | 1453.7 | 1301.4 | 649.7  | 323.0  | 310.1  | 306.9  | 304.9  | 306.3  | 307.5  | 308.2  | 309.4  |
| 32.5° | 1511.4 | 1335.5 | 596.4  | 326.2  | 303.1  | 297.2  | 290.9  | 289.6  | 289.6  | 292.1  | 294.1  |
| 35°   | 1575.6 | 1372.7 | 555.3  | 337.1  | 299.2  | 283.1  | 272.9  | 267.1  | 267.7  | 271.6  | 273.5  |
| 37.5° | 1652.6 | 1417.7 | 525.2  | 346.8  | 296.6  | 267.1  | 250.4  | 243.3  | 238.8  | 243.3  | 242.0  |
| 40°   | 1753.5 | 1483.8 | 503.4  | 354.4  | 293.5  | 248.5  | 226.0  | 214.4  | 206.1  | 208.7  | 207.4  |
| 42.5° | 1901.8 | 1587.8 | 495.0  | 355.1  | 286.4  | 226.6  | 201.0  | 185.5  | 173.3  | 174.0  | 171.4  |
| 45°   | 2109.8 | 1752.1 | 538.0  | 346.8  | 270.9  | 202.8  | 174.7  | 154.1  | 146.4  | 144.4  | 141.9  |
| 47.5° | 2394.8 | 1991.7 | 637.6  | 329.3  | 248.5  | 179.8  | 148.9  | 131.6  | 125.9  | 122.6  | 120.7  |
| 50°   | 2776.8 | 2299.2 | 747.9  | 310.1  | 226.0  | 158.0  | 127.8  | 116.8  | 113.0  | 109.8  | 109.2  |
| 52.5° | 3219.9 | 2611.2 | 838.6  | 290.9  | 203.6  | 138.7  | 114.3  | 107.8  | 104.7  | 102.1  | 101.5  |
| 55°   | 3626.3 | 2826.3 | 833.4  | 270.3  | 181.7  | 123.3  | 104.7  | 100.8  | 97.0   | 94.4   | 93.1   |
| 57.5° | 3879.3 | 2856.5 | 687.0  | 247.8  | 156.6  | 111.1  | 95.6   | 93.1   | 88.6   | 85.4   | 84.8   |
| 60°   | 3995.4 | 2684.4 | 481.5  | 218.3  | 131.6  | 99.5   | 86.0   | 84.8   | 78.9   | 74.5   | 73.2   |
| 62.5° | 4016.7 | 2364.7 | 321.0  | 181.7  | 109.8  | 88.6   | 76.4   | 74.5   | 66.7   | 59.0   | 55.2   |
| 65°   | 3930.7 | 1907.5 | 222.1  | 141.9  | 93.8   | 77.1   | 65.5   | 61.6   | 53.3   | 45.6   | 43.0   |
| 67.5° | 3658.4 | 1339.4 | 154.8  | 102.1  | 79.6   | 61.0   | 52.0   | 50.7   | 44.3   | 37.9   | 36.0   |
| 70°   | 3159.6 | 763.4  | 103.3  | 76.4   | 62.9   | 41.7   | 41.1   | 42.3   | 36.0   | 30.9   | 28.3   |
| 72.5° | 2422.5 | 349.3  | 64.2   | 55.9   | 43.0   | 28.3   | 32.7   | 33.4   | 27.6   | 23.2   | 20.5   |
| 75°   | 1426.0 | 149.5  | 40.5   | 36.0   | 21.8   | 18.7   | 23.8   | 24.4   | 18.7   | 14.8   | 12.8   |
| 77.5° | 485.4  | 56.5   | 25.7   | 21.2   | 10.9   | 10.2   | 15.4   | 15.4   | 10.2   | 5.7    | 4.5    |
| 80°   | 110.4  | 21.2   | 12.8   | 8.3    | 5.1    | 4.5    | 5.1    | 4.5    | 2.6    | 0.6    | 0.0    |
| 82.5° | 31.5   | 8.3    | 5.1    | 3.2    | 1.9    | 1.9    | 0.6    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 9.0    | 3.9    | 1.3    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 3.9    | 0.6    | 0.0    | 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)