

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: P882096

Luminaire Tested: **NVN-SB1D-760-U-T2-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882096  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB1D-760-U-T2-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 5700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

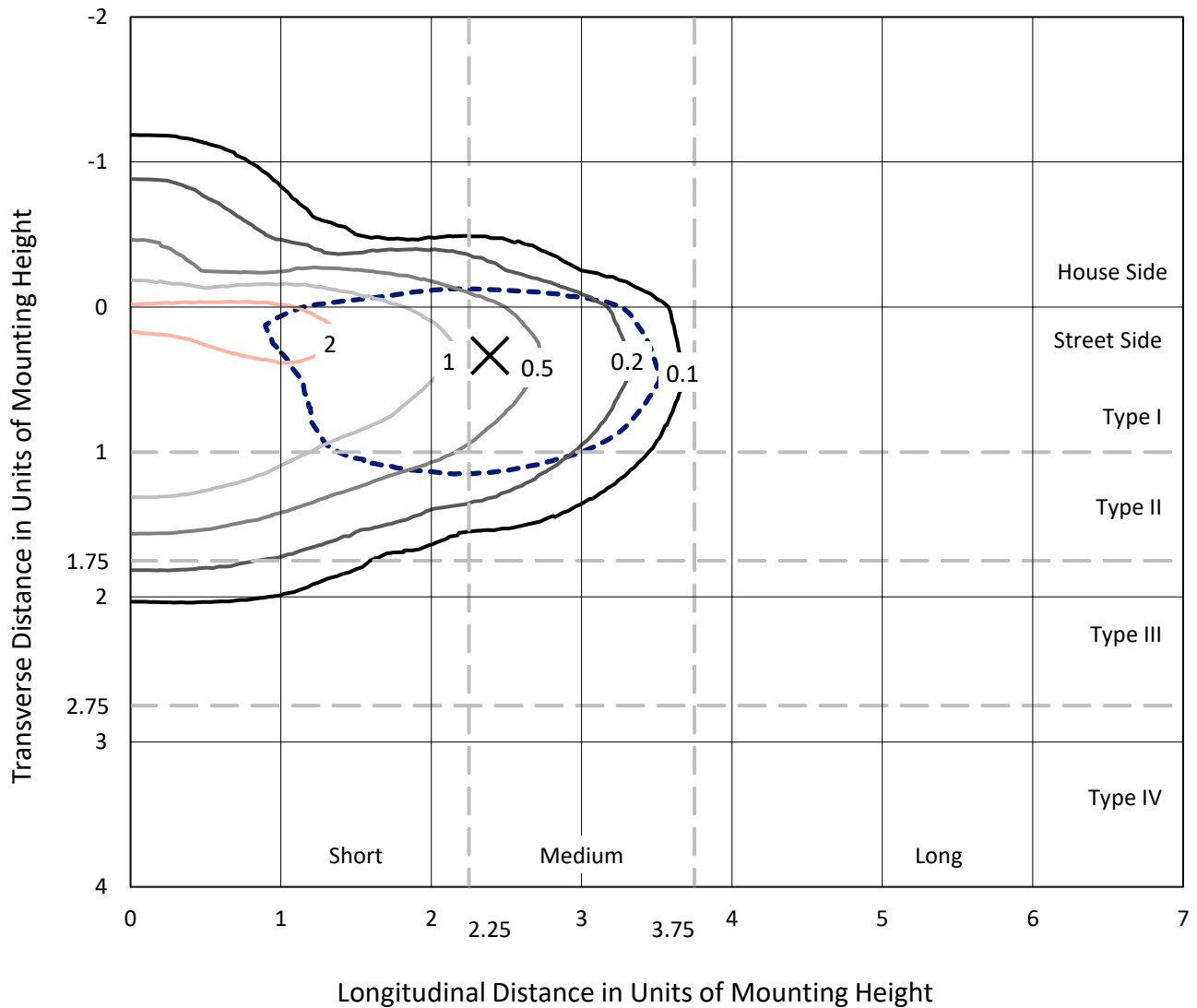
Lumens per Lamp: N/A  
Luminaire Lumens: 8018 lumens  
Efficiency: N/A  
Efficacy: 100.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): 120.0  
Input Current (Ain): 0.638  
Voltage Rise (V): NR  
Power Factor: 0.997  
Total Harmonic Distortion (THDi): 6.673  
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

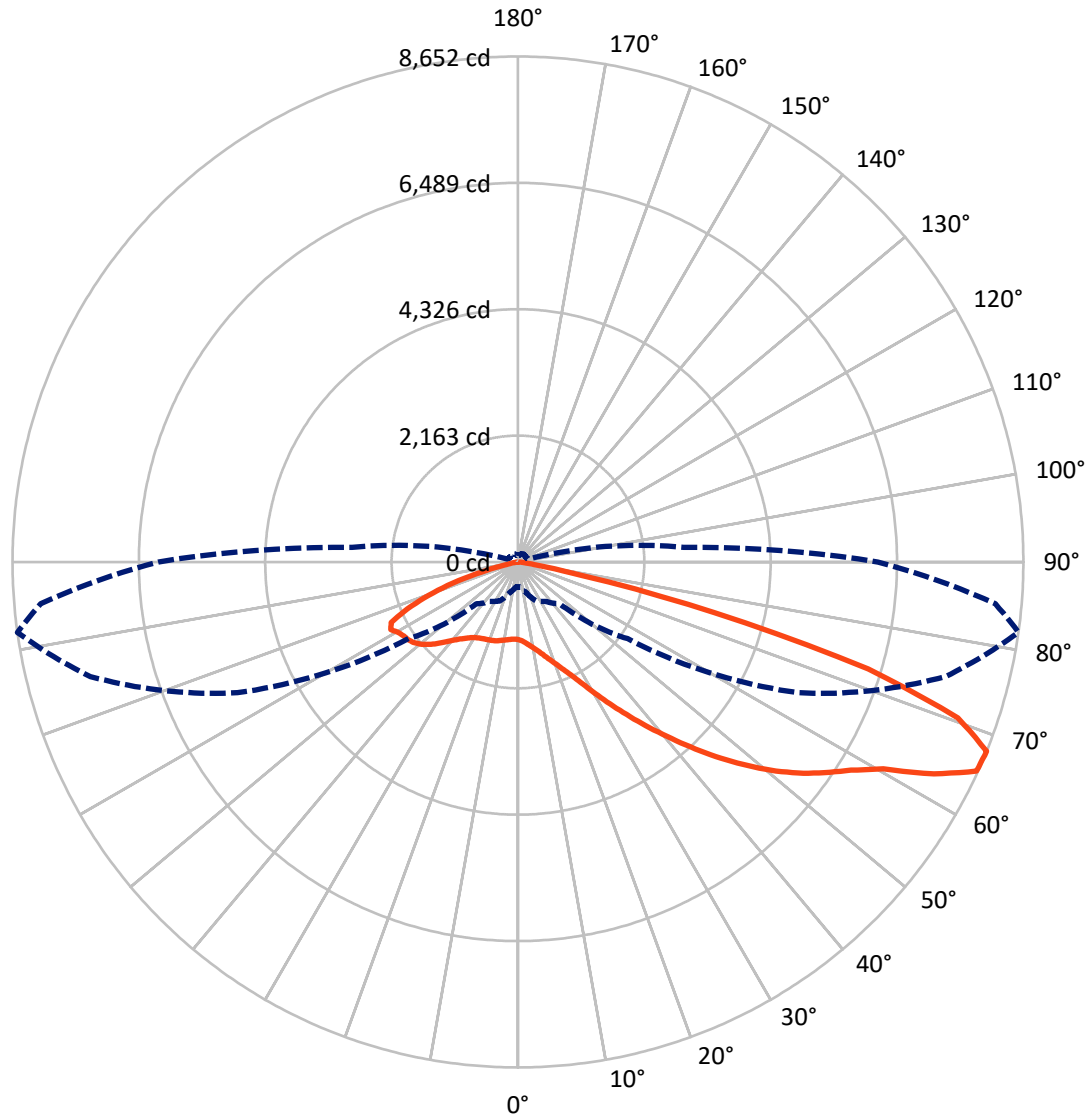
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1452.4   | 0.0    | 1452.4 |
|                    | % Fixture | 18.1     | 0.0    | 18.1   |
| <b>Street Side</b> | Lumens    | 6565.6   | 0.0    | 6565.6 |
|                    | % Fixture | 81.9     | 0.0    | 81.9   |
| <b>Total</b>       | Lumens    | 8018.0   | 0.0    | 8018.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 118.3  | 1.5       |
| 10°-20°   | 307.5  | 3.8       |
| 20°-30°   | 492.6  | 6.1       |
| 30°-40°   | 871.0  | 10.9      |
| 40°-50°   | 1526.1 | 19.0      |
| 50°-60°   | 2035.3 | 25.4      |
| 60°-70°   | 1894.8 | 23.6      |
| 70°-80°   | 727.2  | 9.1       |
| 80°-90°   | 45.2   | 0.6       |
| 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°    | 8018.0 | 100.0     |
| 0°-180°   | 8018.0 | 100.0     |

**Coefficient of Utilization**



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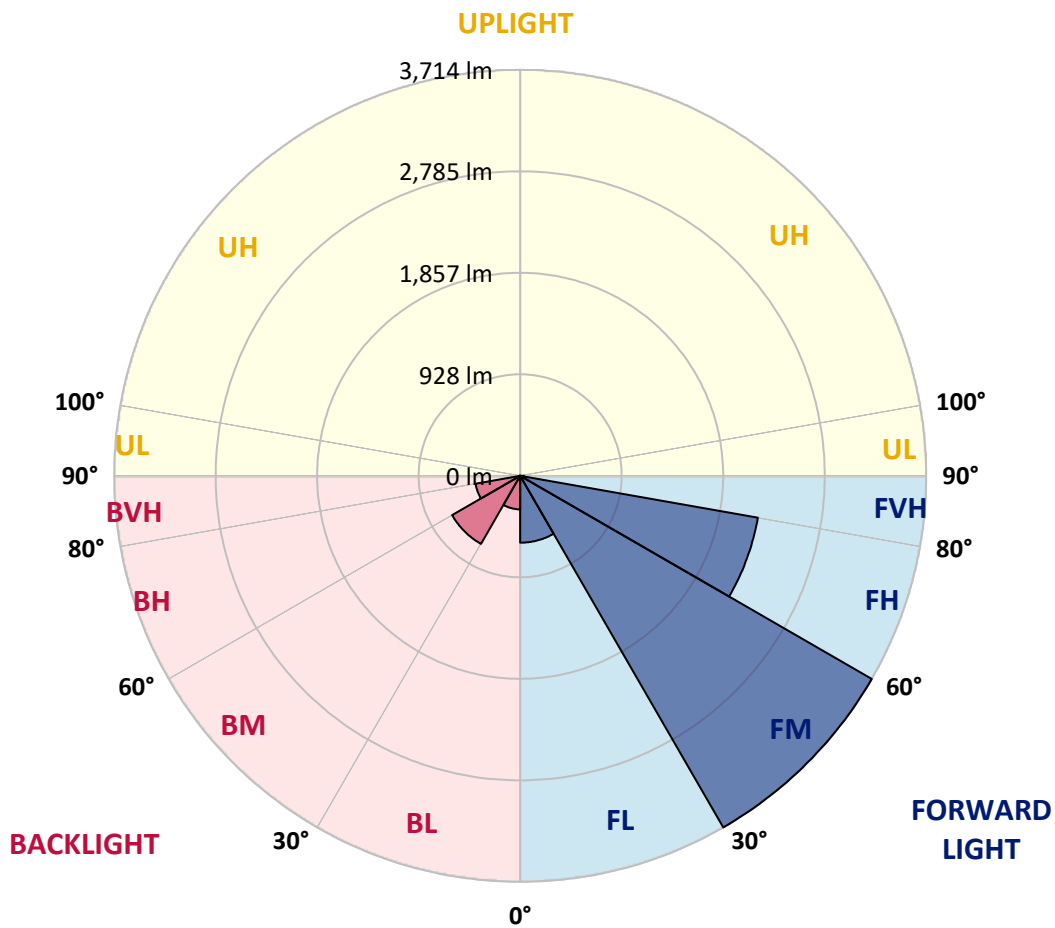
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 611.7  | 7.6       |                         |      |         |
| FM (30°-60°)   | 3713.6 | 46.3      |                         |      |         |
| FH (60°-80°)   | 2207.5 | 27.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 32.8   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 306.7  | 3.8       | B1/500                  |      |         |
| BM (30°-60°)   | 718.8  | 9.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 414.5  | 5.2       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 12.3   | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 82°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1328.3 | 1328.3 | 1328.3 | 1328.3 | 1328.3 | 1328.3 | 1328.3 | 1328.3 | 1328.3 | 1328.3 | 1328.3 |
| 2.5°  | 1403.9 | 1412.0 | 1407.4 | 1405.1 | 1401.0 | 1395.3 | 1390.7 | 1376.2 | 1361.2 | 1351.4 | 1347.9 |
| 5°    | 1432.2 | 1440.3 | 1439.7 | 1442.0 | 1444.9 | 1446.7 | 1445.5 | 1429.3 | 1408.0 | 1391.2 | 1381.4 |
| 7.5°  | 1408.0 | 1417.2 | 1424.7 | 1436.3 | 1456.5 | 1477.8 | 1488.2 | 1484.8 | 1462.8 | 1439.7 | 1427.6 |
| 10°   | 1339.3 | 1349.1 | 1367.0 | 1394.1 | 1436.8 | 1483.0 | 1521.7 | 1539.6 | 1525.7 | 1500.3 | 1483.6 |
| 12.5° | 1213.4 | 1223.2 | 1258.5 | 1317.3 | 1388.9 | 1469.2 | 1543.1 | 1591.0 | 1594.4 | 1569.0 | 1549.4 |
| 15°   | 1072.0 | 1081.8 | 1119.3 | 1193.2 | 1302.3 | 1431.1 | 1554.6 | 1645.2 | 1675.8 | 1653.9 | 1630.2 |
| 17.5° | 984.3  | 992.9  | 1021.2 | 1080.7 | 1194.4 | 1354.9 | 1550.6 | 1703.0 | 1772.8 | 1755.5 | 1727.2 |
| 20°   | 957.7  | 965.2  | 978.5  | 1020.0 | 1114.7 | 1275.8 | 1524.0 | 1757.2 | 1877.3 | 1867.5 | 1835.7 |
| 22.5° | 986.0  | 992.9  | 997.0  | 1015.4 | 1074.9 | 1223.8 | 1490.5 | 1812.6 | 1998.5 | 1999.7 | 1961.0 |
| 25°   | 1051.2 | 1058.1 | 1053.5 | 1065.1 | 1091.1 | 1207.7 | 1477.8 | 1877.9 | 2150.9 | 2163.6 | 2119.8 |
| 27.5° | 1158.6 | 1159.2 | 1148.2 | 1147.6 | 1151.7 | 1231.9 | 1491.1 | 1947.7 | 2343.2 | 2366.8 | 2312.6 |
| 30°   | 1373.9 | 1365.3 | 1323.1 | 1277.5 | 1256.7 | 1304.6 | 1528.0 | 2030.3 | 2570.0 | 2612.2 | 2544.1 |
| 32.5° | 1705.8 | 1693.1 | 1615.8 | 1506.7 | 1397.0 | 1421.8 | 1594.4 | 2124.4 | 2817.1 | 2893.3 | 2810.2 |
| 35°   | 2066.1 | 2062.6 | 1981.8 | 1819.6 | 1627.9 | 1588.7 | 1702.4 | 2247.9 | 3086.7 | 3207.9 | 3109.2 |
| 37.5° | 2400.9 | 2399.2 | 2353.0 | 2161.9 | 1928.7 | 1821.3 | 1875.6 | 2409.5 | 3375.3 | 3550.8 | 3434.2 |
| 40°   | 2706.8 | 2712.0 | 2665.9 | 2495.0 | 2260.0 | 2119.8 | 2111.1 | 2609.3 | 3696.3 | 3924.3 | 3785.8 |
| 42.5° | 2971.2 | 2977.0 | 2930.3 | 2803.8 | 2587.3 | 2450.0 | 2400.3 | 2854.1 | 4009.8 | 4325.5 | 4161.6 |
| 45°   | 3150.8 | 3186.6 | 3179.6 | 3078.6 | 2923.3 | 2780.7 | 2747.8 | 3161.2 | 4367.1 | 4751.0 | 4558.7 |
| 47.5° | 3201.6 | 3234.5 | 3286.4 | 3300.3 | 3205.6 | 3065.3 | 3104.6 | 3531.2 | 4728.5 | 5177.0 | 4958.2 |
| 50°   | 3076.3 | 3106.9 | 3214.8 | 3358.6 | 3424.4 | 3381.1 | 3451.5 | 3927.8 | 5098.5 | 5601.9 | 5350.2 |
| 52.5° | 2829.2 | 2860.4 | 2996.6 | 3224.1 | 3492.5 | 3628.8 | 3799.6 | 4318.6 | 5457.0 | 6004.2 | 5721.4 |
| 55°   | 2471.9 | 2504.8 | 2679.7 | 2937.2 | 3362.6 | 3730.9 | 4090.0 | 4708.8 | 5785.5 | 6366.2 | 6056.2 |
| 57.5° | 1985.8 | 2010.1 | 2191.9 | 2552.1 | 3035.9 | 3629.3 | 4304.2 | 5134.9 | 6094.9 | 6721.8 | 6388.1 |
| 60°   | 1294.3 | 1315.6 | 1526.9 | 1928.7 | 2494.4 | 3289.9 | 4346.9 | 5610.0 | 6505.9 | 7184.2 | 6835.5 |
| 62.5° | 860.7  | 875.1  | 1000.4 | 1295.4 | 1756.6 | 2638.1 | 4096.9 | 5989.2 | 7108.6 | 7988.9 | 7602.7 |
| 65°   | 590.6  | 605.0  | 730.3  | 935.8  | 1134.9 | 1745.1 | 3378.2 | 5939.0 | 7654.7 | 8628.0 | 8171.3 |
| 67.5° | 421.4  | 433.5  | 539.8  | 733.7  | 821.5  | 1013.7 | 2290.1 | 5297.1 | 7576.2 | 8652.2 | 8201.9 |
| 70°   | 301.9  | 308.8  | 396.6  | 571.5  | 652.9  | 609.0  | 1273.5 | 4051.3 | 6633.5 | 7989.5 | 7577.3 |
| 72.5° | 211.3  | 213.6  | 275.4  | 435.3  | 525.9  | 444.5  | 606.1  | 2701.1 | 5017.1 | 6270.9 | 5874.4 |
| 75°   | 143.2  | 146.1  | 185.3  | 319.2  | 422.0  | 339.4  | 321.0  | 1448.4 | 2945.3 | 3471.2 | 3111.5 |
| 77.5° | 87.7   | 88.9   | 119.5  | 218.2  | 315.8  | 258.6  | 206.7  | 613.6  | 1139.5 | 1118.8 | 953.7  |
| 80°   | 49.6   | 49.6   | 76.2   | 135.7  | 215.3  | 166.8  | 144.9  | 260.9  | 360.8  | 316.9  | 279.4  |
| 82.5° | 27.7   | 28.3   | 55.4   | 84.3   | 142.6  | 98.7   | 79.7   | 120.7  | 155.9  | 138.0  | 120.1  |
| 85°   | 11.5   | 12.7   | 34.1   | 39.8   | 68.1   | 49.1   | 32.3   | 50.8   | 57.7   | 51.4   | 37.5   |
| 87.5° | 1.2    | 1.7    | 10.4   | 7.5    | 8.1    | 9.8    | 4.6    | 9.8    | 8.1    | 8.1    | 5.8    |
| 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°    | 1328.3 | 1328.3 | 1328.3 | 1328.3 | 1328.3 | 1328.3 | 1328.3 | 1328.3 | 1328.3 | 1328.3 | 1328.3 |
| 2.5°  | 1337.0 | 1328.3 | 1306.4 | 1281.0 | 1247.5 | 1231.3 | 1209.4 | 1194.4 | 1181.7 | 1182.8 | 1171.3 |
| 5°    | 1362.9 | 1341.0 | 1291.9 | 1230.8 | 1154.6 | 1100.3 | 1042.6 | 1002.7 | 970.4  | 963.5  | 947.9  |
| 7.5°  | 1398.7 | 1364.1 | 1278.1 | 1167.8 | 1039.1 | 941.5  | 854.4  | 798.4  | 758.5  | 745.8  | 733.1  |
| 10°   | 1444.9 | 1394.7 | 1260.2 | 1088.7 | 903.4  | 779.3  | 685.8  | 641.9  | 614.8  | 605.6  | 598.6  |
| 12.5° | 1498.6 | 1429.9 | 1236.5 | 992.3  | 763.7  | 644.2  | 584.8  | 562.8  | 554.2  | 551.3  | 549.6  |
| 15°   | 1566.1 | 1473.8 | 1200.7 | 878.0  | 645.4  | 561.7  | 536.3  | 533.4  | 534.6  | 533.4  | 532.8  |
| 17.5° | 1646.4 | 1521.7 | 1142.4 | 760.3  | 565.7  | 519.5  | 510.3  | 512.6  | 515.5  | 514.9  | 513.8  |
| 20°   | 1734.1 | 1569.0 | 1068.0 | 655.8  | 511.5  | 489.5  | 484.3  | 486.6  | 489.0  | 487.8  | 487.2  |
| 22.5° | 1834.0 | 1619.8 | 985.4  | 574.4  | 475.1  | 461.8  | 456.0  | 456.6  | 456.6  | 454.3  | 453.2  |
| 25°   | 1953.5 | 1675.8 | 898.8  | 516.7  | 447.4  | 437.0  | 430.1  | 427.8  | 424.3  | 417.4  | 416.2  |
| 27.5° | 2096.1 | 1735.3 | 815.7  | 476.3  | 425.5  | 415.6  | 407.6  | 401.8  | 393.1  | 381.6  | 380.4  |
| 30°   | 2256.6 | 1807.5 | 745.3  | 450.9  | 408.1  | 398.3  | 389.1  | 380.4  | 367.7  | 353.3  | 352.1  |
| 32.5° | 2445.3 | 1884.8 | 693.9  | 434.1  | 392.5  | 382.2  | 371.2  | 360.8  | 346.9  | 332.5  | 333.1  |
| 35°   | 2670.5 | 1978.3 | 663.9  | 422.6  | 380.4  | 366.6  | 354.4  | 342.9  | 332.5  | 319.8  | 318.7  |
| 37.5° | 2914.7 | 2077.6 | 654.6  | 416.8  | 372.3  | 351.0  | 337.1  | 329.0  | 327.9  | 320.4  | 319.8  |
| 40°   | 3181.9 | 2195.4 | 661.6  | 413.3  | 363.7  | 336.0  | 321.0  | 319.2  | 322.1  | 308.8  | 309.4  |
| 42.5° | 3464.8 | 2335.1 | 673.1  | 409.3  | 351.6  | 321.0  | 306.5  | 306.5  | 304.2  | 285.8  | 285.8  |
| 45°   | 3770.8 | 2496.1 | 684.6  | 399.5  | 337.1  | 306.0  | 295.0  | 290.9  | 281.1  | 263.2  | 262.7  |
| 47.5° | 4079.0 | 2660.1 | 693.3  | 381.6  | 319.8  | 293.3  | 283.4  | 274.2  | 259.8  | 243.6  | 243.0  |
| 50°   | 4371.7 | 2807.3 | 684.1  | 355.0  | 300.2  | 281.1  | 270.7  | 258.0  | 242.5  | 231.5  | 229.8  |
| 52.5° | 4633.2 | 2934.9 | 644.8  | 323.9  | 279.4  | 268.4  | 259.2  | 245.9  | 233.2  | 221.7  | 220.5  |
| 55°   | 4860.7 | 3038.2 | 575.5  | 294.4  | 260.9  | 257.5  | 248.2  | 231.5  | 214.2  | 204.4  | 203.2  |
| 57.5° | 5078.9 | 3116.7 | 489.0  | 270.2  | 244.2  | 245.3  | 231.5  | 216.5  | 200.3  | 189.9  | 188.8  |
| 60°   | 5369.2 | 3221.8 | 401.2  | 247.7  | 226.3  | 229.8  | 214.7  | 203.8  | 183.6  | 170.3  | 168.6  |
| 62.5° | 5833.4 | 3385.1 | 318.7  | 219.9  | 205.5  | 206.7  | 200.3  | 187.0  | 162.8  | 147.2  | 146.1  |
| 65°   | 6201.7 | 3325.1 | 251.1  | 189.9  | 181.8  | 183.6  | 183.6  | 169.1  | 143.2  | 125.3  | 123.5  |
| 67.5° | 6160.1 | 2847.1 | 200.3  | 160.5  | 159.3  | 160.5  | 164.5  | 152.4  | 127.0  | 112.6  | 110.3  |
| 70°   | 5674.6 | 2264.7 | 160.5  | 133.4  | 138.5  | 135.7  | 147.2  | 139.1  | 114.3  | 99.9   | 98.1   |
| 72.5° | 4630.3 | 1631.4 | 122.4  | 110.3  | 106.2  | 110.8  | 132.8  | 125.3  | 95.3   | 79.1   | 77.4   |
| 75°   | 2705.7 | 870.5  | 91.2   | 87.2   | 76.8   | 92.4   | 117.8  | 106.8  | 72.7   | 58.3   | 56.6   |
| 77.5° | 880.9  | 303.6  | 67.0   | 64.1   | 57.2   | 74.5   | 100.4  | 90.1   | 59.5   | 46.2   | 44.5   |
| 80°   | 236.1  | 91.8   | 45.6   | 42.1   | 36.9   | 55.4   | 79.7   | 71.6   | 42.7   | 30.0   | 29.4   |
| 82.5° | 94.7   | 38.7   | 26.6   | 23.7   | 20.2   | 38.1   | 62.9   | 57.7   | 31.8   | 19.1   | 19.1   |
| 85°   | 30.6   | 12.7   | 9.8    | 7.5    | 9.2    | 23.7   | 37.5   | 39.3   | 22.5   | 9.8    | 7.5    |
| 87.5° | 4.0    | 1.7    | 1.7    | 2.3    | 1.7    | 4.0    | 11.5   | 11.0   | 6.4    | 1.2    | 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)