

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: P960934

Luminaire Tested: **NVN-SB1D-750-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P960934  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB1D-750-U-SL4  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

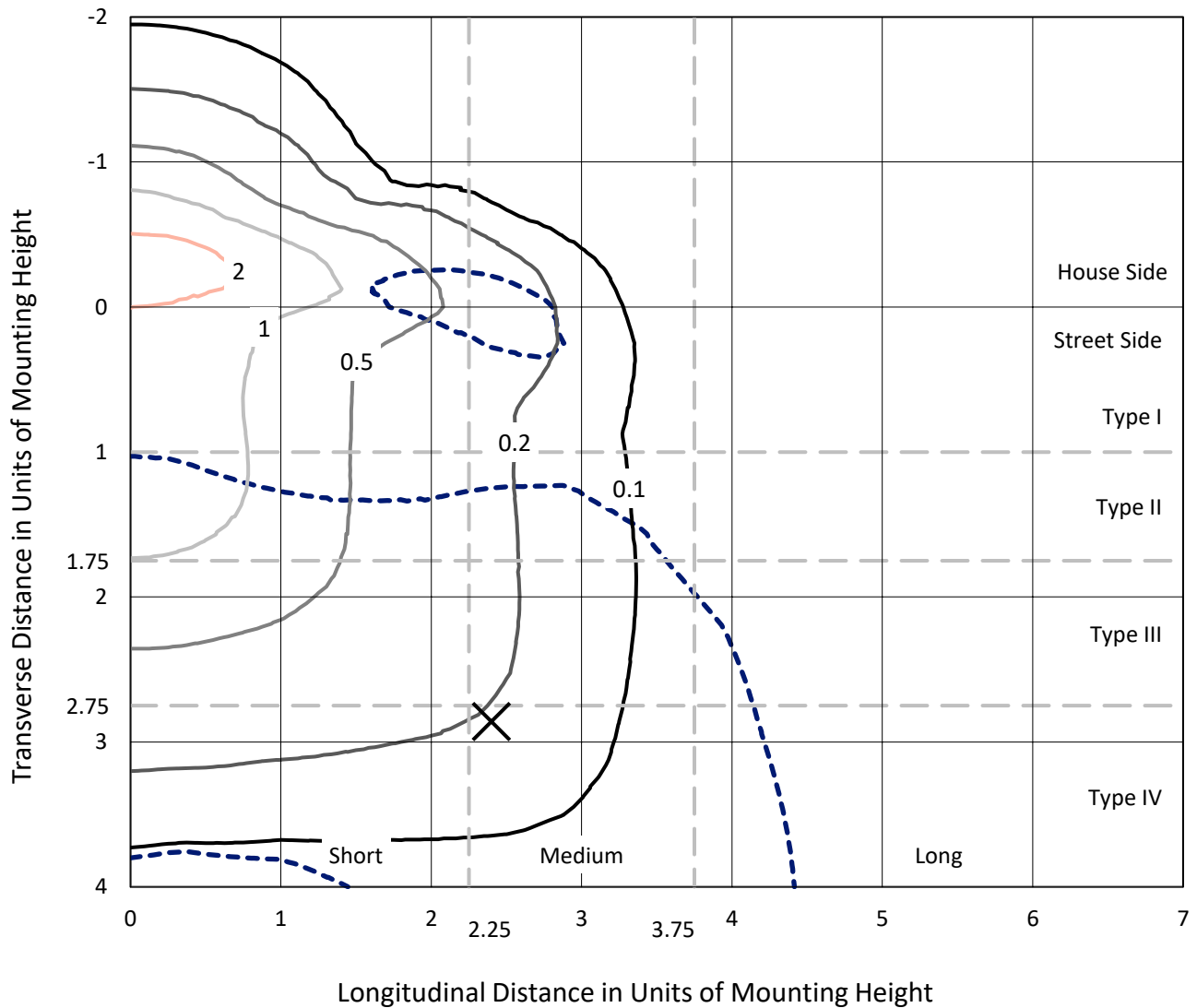
Lumens per Lamp: N/A  
Luminaire Lumens: 10941.9 lumens  
Efficiency: N/A  
Efficacy: 137.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): 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

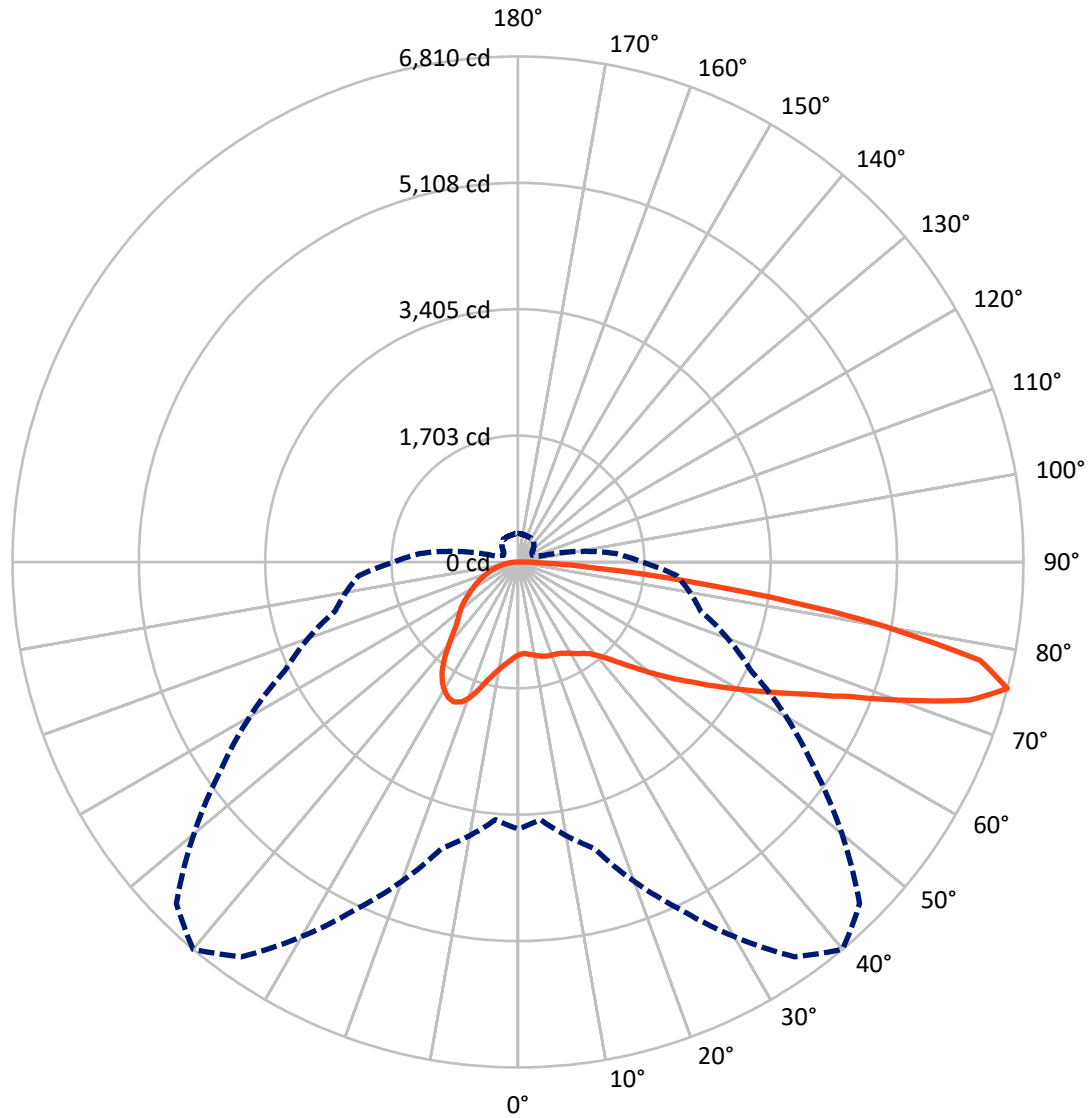
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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    | 3390.2   | 0.0    | 3390.2  |
|                    | % Fixture | 31.0     | 0.0    | 31.0    |
| <b>Street Side</b> | Lumens    | 7551.7   | 0.0    | 7551.7  |
|                    | % Fixture | 69.0     | 0.0    | 69.0    |
| <b>Total</b>       | Lumens    | 10941.9  | 0.0    | 10941.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 124.9   | 1.1       |
| 10°-20°   | 419.3   | 3.8       |
| 20°-30°   | 765.7   | 7.0       |
| 30°-40°   | 1085.9  | 9.9       |
| 40°-50°   | 1466.3  | 13.4      |
| 50°-60°   | 1972.6  | 18.0      |
| 60°-70°   | 2503.7  | 22.9      |
| 70°-80°   | 2272.3  | 20.8      |
| 80°-90°   | 331.2   | 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°    | 10941.9 | 100.0     |
| 0°-180°   | 10941.9 | 100.0     |

**Coefficient of Utilization**



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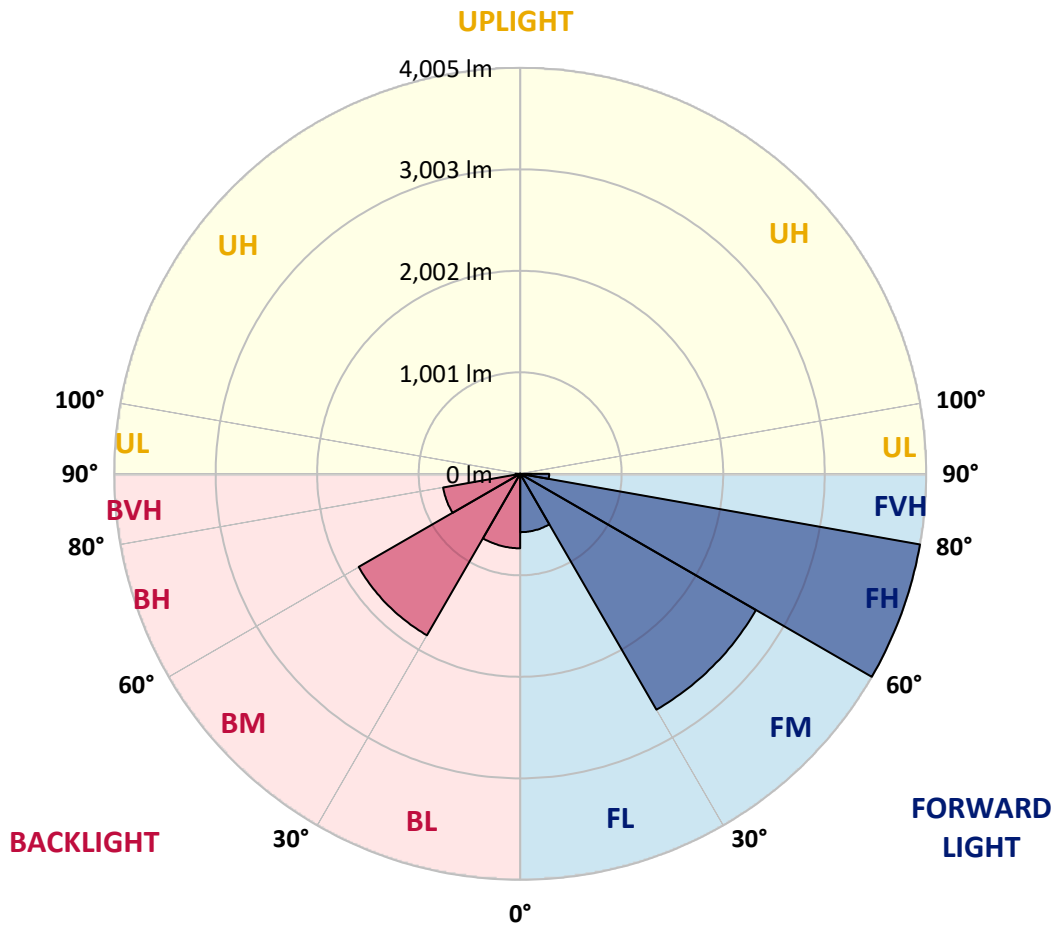
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 575.6  | 5.3       |                         |      |         |
| FM   | (30°-60°)   | 2686.0 | 24.5      |                         |      |         |
| FH   | (60°-80°)   | 4004.6 | 36.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 285.6  | 2.6       |                         |      | G3/500  |
| BL   | (0°-30°)    | 734.3  | 6.7       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1838.9 | 16.8      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 771.4  | 7.0       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 45.6   | 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°    | 1251.2 | 1251.2 | 1251.2 | 1251.2 | 1251.2 | 1251.2 | 1251.2 | 1251.2 | 1251.2 | 1251.2 | 1251.2 |
| 2.5°  | 1232.0 | 1239.0 | 1237.3 | 1234.9 | 1234.9 | 1235.5 | 1234.9 | 1239.0 | 1243.1 | 1247.1 | 1253.6 |
| 5°    | 1244.9 | 1251.8 | 1248.3 | 1245.4 | 1243.1 | 1242.5 | 1240.8 | 1240.1 | 1242.5 | 1247.7 | 1256.4 |
| 7.5°  | 1269.8 | 1276.7 | 1271.5 | 1266.3 | 1261.7 | 1259.3 | 1257.1 | 1253.6 | 1251.8 | 1254.7 | 1266.9 |
| 10°   | 1297.6 | 1304.6 | 1298.3 | 1288.9 | 1281.4 | 1278.5 | 1276.1 | 1272.6 | 1270.4 | 1272.1 | 1285.5 |
| 12.5° | 1325.5 | 1332.5 | 1323.8 | 1311.0 | 1301.1 | 1299.4 | 1296.5 | 1295.3 | 1294.8 | 1294.2 | 1307.5 |
| 15°   | 1351.7 | 1357.4 | 1346.4 | 1331.3 | 1320.8 | 1317.9 | 1315.1 | 1316.8 | 1319.7 | 1323.2 | 1338.2 |
| 17.5° | 1372.0 | 1377.7 | 1361.5 | 1341.7 | 1331.9 | 1330.8 | 1329.0 | 1334.8 | 1343.0 | 1351.7 | 1370.2 |
| 20°   | 1390.5 | 1396.3 | 1375.4 | 1348.7 | 1337.1 | 1337.1 | 1337.7 | 1349.9 | 1361.5 | 1374.2 | 1399.7 |
| 22.5° | 1416.7 | 1421.3 | 1395.7 | 1359.1 | 1342.3 | 1343.5 | 1348.2 | 1360.3 | 1374.8 | 1392.3 | 1427.6 |
| 25°   | 1455.5 | 1459.0 | 1427.6 | 1378.9 | 1359.8 | 1363.2 | 1367.2 | 1373.1 | 1387.0 | 1407.3 | 1454.9 |
| 27.5° | 1518.1 | 1521.1 | 1479.9 | 1413.7 | 1384.7 | 1390.5 | 1396.3 | 1392.3 | 1398.6 | 1416.0 | 1476.9 |
| 30°   | 1606.4 | 1608.1 | 1555.8 | 1468.3 | 1427.1 | 1430.0 | 1431.1 | 1414.3 | 1402.1 | 1416.0 | 1492.6 |
| 32.5° | 1710.8 | 1710.3 | 1648.2 | 1534.4 | 1475.2 | 1472.3 | 1462.5 | 1429.4 | 1401.0 | 1413.2 | 1506.5 |
| 35°   | 1872.8 | 1866.4 | 1786.3 | 1627.3 | 1529.8 | 1511.8 | 1488.6 | 1446.2 | 1406.7 | 1410.2 | 1518.7 |
| 37.5° | 2140.9 | 2121.1 | 2010.3 | 1779.3 | 1611.0 | 1565.2 | 1530.9 | 1473.5 | 1419.5 | 1409.1 | 1533.3 |
| 40°   | 2443.2 | 2418.3 | 2296.4 | 1987.7 | 1732.9 | 1659.2 | 1604.0 | 1512.4 | 1440.4 | 1414.3 | 1554.7 |
| 42.5° | 2801.9 | 2766.5 | 2635.4 | 2233.2 | 1887.2 | 1780.5 | 1697.5 | 1561.7 | 1471.2 | 1431.1 | 1583.7 |
| 45°   | 3242.4 | 3195.3 | 3009.6 | 2510.0 | 2081.7 | 1939.5 | 1828.7 | 1636.5 | 1518.1 | 1463.6 | 1627.3 |
| 47.5° | 3687.5 | 3699.1 | 3435.1 | 2826.8 | 2315.0 | 2135.7 | 1992.9 | 1749.2 | 1586.7 | 1515.9 | 1697.5 |
| 50°   | 4160.5 | 4168.6 | 3858.1 | 3177.9 | 2579.6 | 2357.4 | 2177.4 | 1875.1 | 1681.8 | 1590.2 | 1802.6 |
| 52.5° | 4529.6 | 4530.7 | 4242.3 | 3545.3 | 2855.2 | 2601.1 | 2376.5 | 2019.0 | 1792.1 | 1688.8 | 1942.4 |
| 55°   | 4760.5 | 4757.6 | 4511.5 | 3893.0 | 3172.2 | 2857.0 | 2597.0 | 2182.6 | 1926.7 | 1804.8 | 2118.3 |
| 57.5° | 4928.3 | 4919.6 | 4697.3 | 4191.8 | 3509.9 | 3159.4 | 2846.6 | 2368.4 | 2085.8 | 1943.0 | 2349.8 |
| 60°   | 4992.1 | 4986.9 | 4823.2 | 4450.0 | 3865.1 | 3493.6 | 3134.4 | 2576.1 | 2266.3 | 2106.1 | 2647.5 |
| 62.5° | 5016.5 | 5026.4 | 4946.9 | 4700.2 | 4245.2 | 3863.9 | 3450.8 | 2824.5 | 2469.3 | 2290.6 | 2961.5 |
| 65°   | 5102.3 | 5120.4 | 5104.1 | 5027.5 | 4674.6 | 4297.4 | 3870.3 | 3119.9 | 2691.0 | 2488.5 | 3289.4 |
| 67.5° | 5272.4 | 5290.4 | 5297.4 | 5419.3 | 5199.3 | 4837.7 | 4393.8 | 3487.9 | 2950.5 | 2693.9 | 3536.0 |
| 70°   | 5268.4 | 5263.2 | 5386.2 | 5730.9 | 5856.2 | 5585.8 | 5099.5 | 3940.5 | 3259.8 | 2864.6 | 3567.4 |
| 72.5° | 4795.4 | 4753.5 | 5044.3 | 5727.4 | 6402.9 | 6366.9 | 5961.3 | 4524.3 | 3526.7 | 2885.5 | 3095.5 |
| 75°   | 3597.5 | 3486.1 | 3999.8 | 5161.6 | 6494.0 | 6810.3 | 6509.2 | 4886.5 | 3463.5 | 2549.5 | 2154.2 |
| 77.5° | 1538.5 | 1426.5 | 2031.8 | 3821.0 | 5812.2 | 6366.4 | 6006.5 | 4263.2 | 2764.7 | 1685.9 | 1058.0 |
| 80°   | 402.7  | 402.2  | 614.0  | 1732.4 | 3952.7 | 4701.4 | 4124.5 | 2753.1 | 1579.7 | 602.4  | 291.9  |
| 82.5° | 166.6  | 162.5  | 225.7  | 673.7  | 1931.4 | 2638.2 | 2153.1 | 1228.1 | 570.5  | 163.1  | 97.0   |
| 85°   | 62.1   | 61.5   | 109.7  | 232.7  | 681.3  | 1088.1 | 787.5  | 314.0  | 142.2  | 79.5   | 43.6   |
| 87.5° | 17.4   | 16.8   | 23.8   | 80.7   | 165.9  | 251.8  | 134.7  | 51.7   | 40.1   | 31.4   | 12.8   |
| 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°    | 1251.2 | 1251.2 | 1251.2 | 1251.2 | 1251.2 | 1251.2 | 1251.2 | 1251.2 | 1251.2 | 1251.2 | 1251.2 |
| 2.5°  | 1255.3 | 1258.2 | 1263.4 | 1267.5 | 1272.6 | 1278.5 | 1286.6 | 1291.8 | 1297.0 | 1300.5 | 1298.3 |
| 5°    | 1260.5 | 1266.9 | 1280.2 | 1293.6 | 1309.2 | 1323.8 | 1340.6 | 1352.8 | 1362.6 | 1365.5 | 1366.7 |
| 7.5°  | 1272.1 | 1282.6 | 1305.2 | 1327.8 | 1352.8 | 1376.6 | 1401.0 | 1421.9 | 1438.7 | 1445.0 | 1445.7 |
| 10°   | 1292.4 | 1306.4 | 1338.2 | 1370.2 | 1403.2 | 1439.8 | 1471.2 | 1501.3 | 1525.1 | 1535.0 | 1535.6 |
| 12.5° | 1317.9 | 1335.4 | 1377.2 | 1421.3 | 1467.1 | 1517.6 | 1558.2 | 1595.3 | 1624.9 | 1638.3 | 1638.3 |
| 15°   | 1351.1 | 1373.7 | 1427.1 | 1486.2 | 1553.6 | 1623.8 | 1675.5 | 1716.7 | 1749.8 | 1766.0 | 1764.8 |
| 17.5° | 1387.0 | 1417.2 | 1484.5 | 1573.9 | 1670.2 | 1762.5 | 1822.9 | 1853.0 | 1887.2 | 1902.9 | 1902.4 |
| 20°   | 1421.9 | 1459.0 | 1555.3 | 1685.3 | 1813.5 | 1911.6 | 1960.4 | 1968.5 | 1970.9 | 1972.6 | 1977.2 |
| 22.5° | 1457.9 | 1507.8 | 1644.1 | 1825.7 | 1963.3 | 2031.2 | 2038.2 | 2003.4 | 1954.6 | 1931.9 | 1938.4 |
| 25°   | 1497.3 | 1563.4 | 1760.1 | 1980.7 | 2092.1 | 2100.2 | 2046.8 | 1962.2 | 1869.9 | 1827.5 | 1833.9 |
| 27.5° | 1535.6 | 1627.9 | 1899.4 | 2128.7 | 2185.0 | 2113.7 | 1998.7 | 1878.5 | 1767.1 | 1722.4 | 1727.6 |
| 30°   | 1573.9 | 1701.6 | 2053.3 | 2258.1 | 2227.3 | 2080.5 | 1922.7 | 1788.6 | 1676.6 | 1629.6 | 1634.9 |
| 32.5° | 1612.7 | 1787.5 | 2230.3 | 2351.6 | 2219.8 | 2010.3 | 1828.1 | 1687.7 | 1589.0 | 1539.7 | 1546.0 |
| 35°   | 1656.9 | 1893.1 | 2398.0 | 2402.6 | 2169.3 | 1907.0 | 1703.3 | 1566.9 | 1481.0 | 1441.6 | 1450.3 |
| 37.5° | 1714.3 | 2027.1 | 2546.0 | 2415.4 | 2081.1 | 1755.5 | 1548.4 | 1424.1 | 1353.3 | 1335.4 | 1348.2 |
| 40°   | 1785.8 | 2188.5 | 2659.2 | 2395.1 | 1950.6 | 1571.5 | 1378.9 | 1279.6 | 1239.6 | 1243.6 | 1257.6 |
| 42.5° | 1878.5 | 2369.0 | 2738.6 | 2342.8 | 1768.8 | 1381.8 | 1230.3 | 1186.2 | 1205.4 | 1221.6 | 1236.7 |
| 45°   | 1999.3 | 2556.5 | 2788.0 | 2254.1 | 1563.4 | 1221.1 | 1142.7 | 1153.1 | 1167.7 | 1169.4 | 1181.0 |
| 47.5° | 2153.6 | 2746.2 | 2820.5 | 2120.0 | 1353.9 | 1107.9 | 1087.0 | 1089.3 | 1086.4 | 1074.2 | 1083.5 |
| 50°   | 2346.3 | 2930.7 | 2849.5 | 1942.4 | 1175.8 | 1037.1 | 1009.2 | 1001.1 | 961.0  | 921.6  | 926.8  |
| 52.5° | 2565.7 | 3100.2 | 2861.7 | 1721.9 | 1037.1 | 977.8  | 932.6  | 881.5  | 806.7  | 794.5  | 798.6  |
| 55°   | 2809.4 | 3256.8 | 2830.3 | 1450.9 | 920.4  | 901.9  | 833.3  | 771.8  | 763.7  | 753.3  | 755.0  |
| 57.5° | 3100.7 | 3425.8 | 2766.5 | 1148.5 | 800.8  | 813.0  | 746.3  | 753.3  | 738.8  | 722.5  | 719.7  |
| 60°   | 3419.4 | 3600.4 | 2654.4 | 872.8  | 677.2  | 702.2  | 723.6  | 723.1  | 719.0  | 705.7  | 701.1  |
| 62.5° | 3706.1 | 3715.3 | 2434.0 | 668.5  | 568.8  | 616.3  | 675.0  | 674.3  | 670.9  | 663.4  | 660.4  |
| 65°   | 3876.7 | 3697.9 | 2066.0 | 526.3  | 479.4  | 545.5  | 608.7  | 613.5  | 614.0  | 613.5  | 613.5  |
| 67.5° | 3846.5 | 3494.2 | 1561.1 | 419.0  | 405.7  | 473.6  | 543.2  | 549.6  | 554.2  | 555.3  | 556.6  |
| 70°   | 3505.3 | 3046.8 | 1017.9 | 334.3  | 340.1  | 410.3  | 481.1  | 487.5  | 491.6  | 496.2  | 498.6  |
| 72.5° | 2732.2 | 2240.1 | 582.7  | 270.4  | 282.6  | 355.8  | 419.6  | 427.1  | 429.5  | 438.2  | 441.7  |
| 75°   | 1665.0 | 1317.3 | 314.6  | 213.0  | 232.2  | 304.1  | 358.6  | 367.4  | 371.5  | 381.9  | 383.0  |
| 77.5° | 791.6  | 570.5  | 179.4  | 165.9  | 186.9  | 248.4  | 302.9  | 312.8  | 301.8  | 307.6  | 302.9  |
| 80°   | 267.5  | 211.9  | 113.2  | 126.5  | 142.8  | 193.8  | 242.6  | 252.5  | 229.2  | 228.1  | 225.7  |
| 82.5° | 93.5   | 85.9   | 72.0   | 84.2   | 92.2   | 138.7  | 183.4  | 196.2  | 170.7  | 170.0  | 162.0  |
| 85°   | 36.6   | 34.8   | 40.1   | 45.8   | 55.1   | 85.3   | 120.7  | 127.1  | 105.1  | 84.8   | 83.5   |
| 87.5° | 7.6    | 8.1    | 9.8    | 10.5   | 16.8   | 29.6   | 43.6   | 53.4   | 42.3   | 36.0   | 33.1   |
| 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)