

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: P961416

Luminaire Tested: **NVN-SB2A-735-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P961416  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB2A-735-U-T4FT  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9087.6 lumens  
Efficiency: N/A  
Efficacy: 158.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

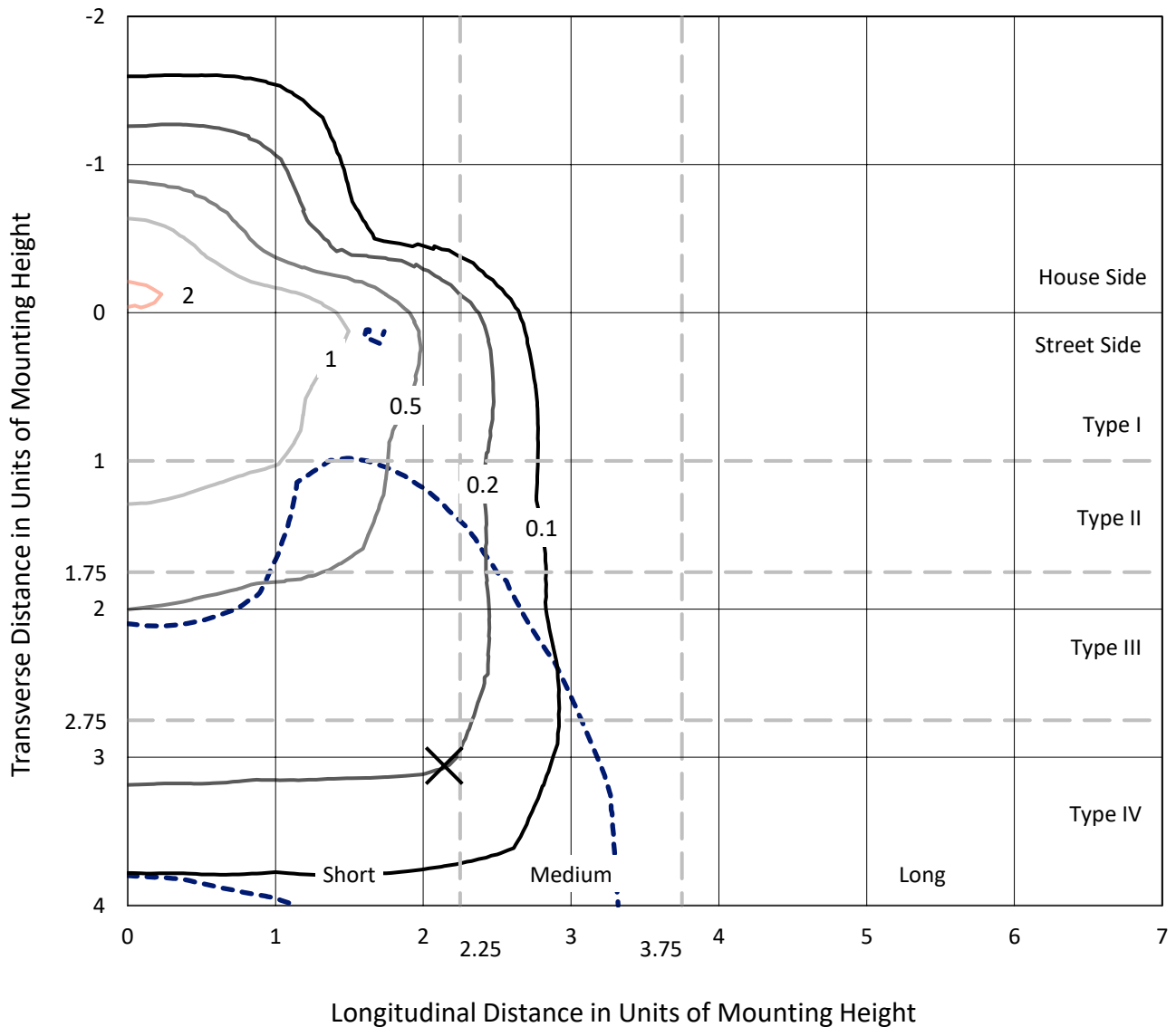
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

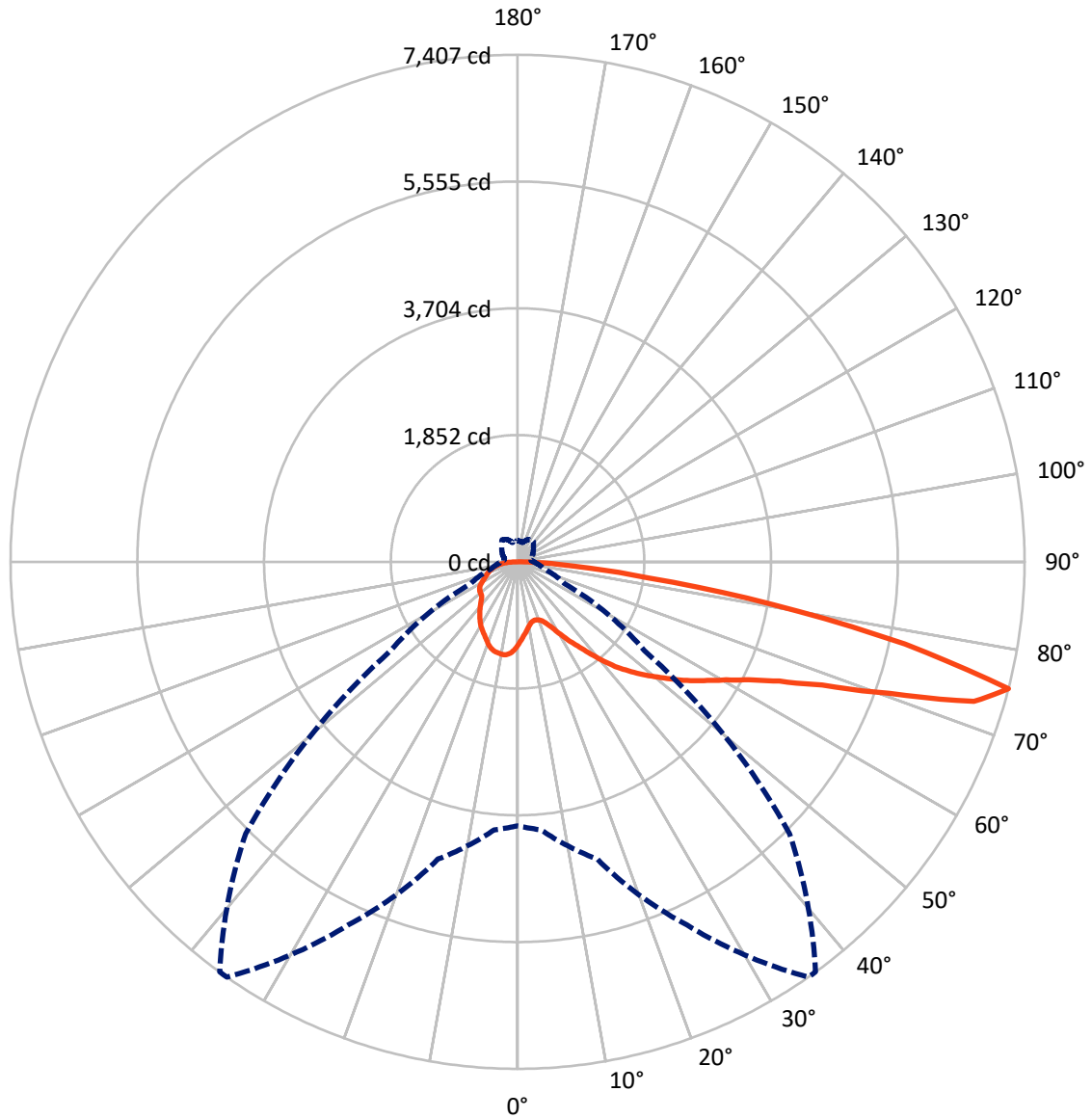
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2162.6   | 0.0    | 2162.6 |
|                    | % Fixture | 23.8     | 0.0    | 23.8   |
| <b>Street Side</b> | Lumens    | 6925.0   | 0.0    | 6925.0 |
|                    | % Fixture | 76.2     | 0.0    | 76.2   |
| <b>Total</b>       | Lumens    | 9087.6   | 0.0    | 9087.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 114.7  | 1.3       |
| 10°-20°   | 330.7  | 3.6       |
| 20°-30°   | 555.4  | 6.1       |
| 30°-40°   | 863.1  | 9.5       |
| 40°-50°   | 1281.1 | 14.1      |
| 50°-60°   | 1768.6 | 19.5      |
| 60°-70°   | 2145.7 | 23.6      |
| 70°-80°   | 1773.3 | 19.5      |
| 80°-90°   | 255.1  | 2.8       |
| 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°    | 9087.6 | 100.0     |
| 0°-180°   | 9087.6 | 100.0     |

**Coefficient of Utilization**



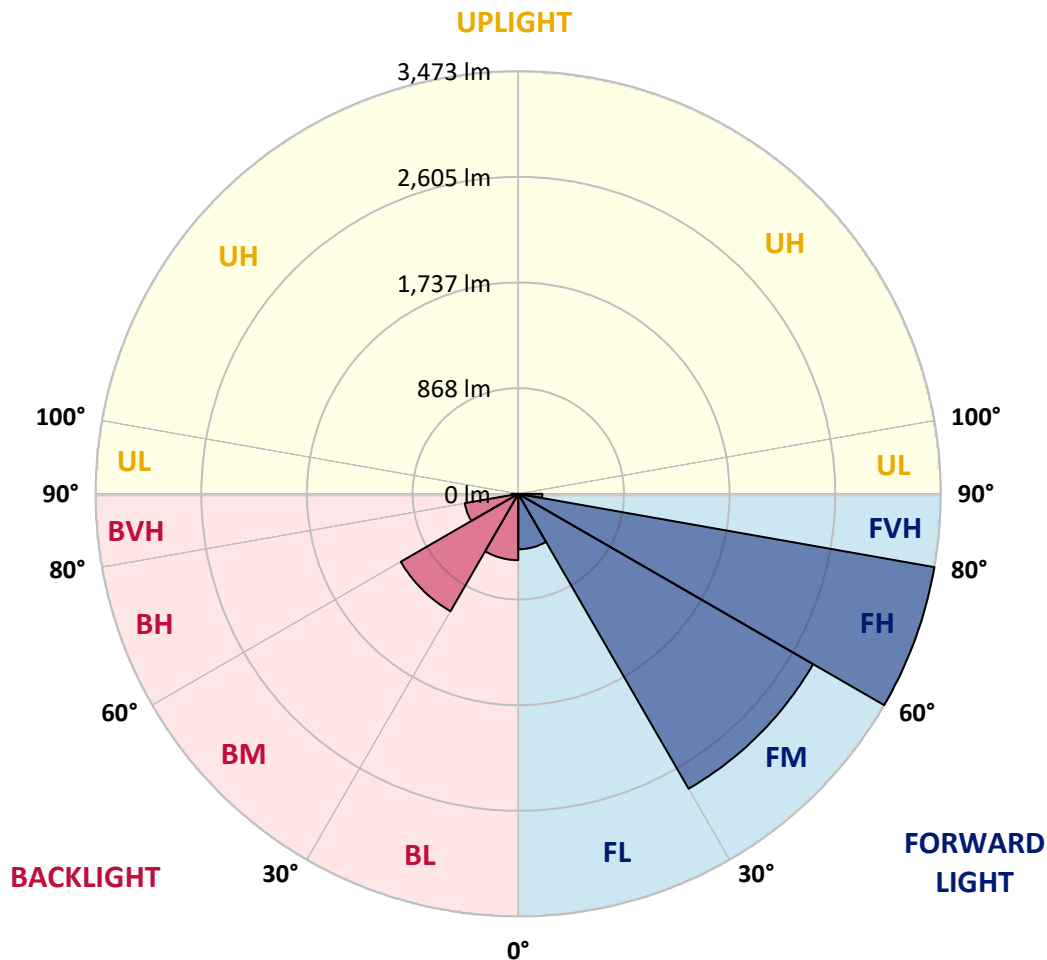
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 455.7  | 5.0       |                         |      |         |
| FM (30°-60°)   | 2798.5 | 30.8      |                         |      |         |
| FH (60°-80°)   | 3473.2 | 38.2      |                         |      | G2/5000 |
| FVH (80°-90°)  | 197.6  | 2.2       |                         |      | G2/225  |
| BL (0°-30°)    | 545.0  | 6.0       | B2/1000                 |      |         |
| BM (30°-60°)   | 1114.3 | 12.3      | B2/2500                 |      |         |
| BH (60°-80°)   | 445.9  | 4.9       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 57.4   | 0.6       |                         |      | 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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 36°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1211.0 | 1211.0 | 1211.0 | 1211.0 | 1211.0 | 1211.0 | 1211.0 | 1211.0 | 1211.0 | 1211.0 | 1211.0 |
| 2.5°  | 1116.6 | 1123.5 | 1126.5 | 1125.0 | 1132.4 | 1131.4 | 1141.7 | 1154.5 | 1172.2 | 1189.4 | 1214.4 |
| 5°    | 1030.7 | 1038.0 | 1044.5 | 1050.3 | 1064.6 | 1069.0 | 1085.3 | 1109.8 | 1142.3 | 1175.2 | 1216.4 |
| 7.5°  | 950.6  | 957.0  | 966.8  | 977.6  | 1001.7 | 1006.1 | 1033.2 | 1071.4 | 1116.6 | 1164.8 | 1221.8 |
| 10°   | 885.3  | 891.6  | 902.0  | 914.3  | 944.2  | 949.7  | 984.0  | 1035.1 | 1094.1 | 1155.0 | 1227.7 |
| 12.5° | 857.3  | 859.3  | 865.1  | 877.4  | 903.4  | 906.9  | 944.7  | 1003.2 | 1071.9 | 1147.6 | 1236.6 |
| 15°   | 855.8  | 859.8  | 860.2  | 866.6  | 888.3  | 889.7  | 924.6  | 982.6  | 1058.2 | 1146.2 | 1249.8 |
| 17.5° | 870.5  | 873.5  | 869.1  | 873.0  | 891.1  | 893.6  | 921.2  | 972.7  | 1053.8 | 1152.5 | 1272.4 |
| 20°   | 909.8  | 912.2  | 899.0  | 893.6  | 906.9  | 908.9  | 935.9  | 979.1  | 1058.2 | 1165.8 | 1303.4 |
| 22.5° | 993.3  | 994.9  | 962.4  | 940.3  | 941.3  | 942.3  | 965.9  | 1005.1 | 1075.4 | 1189.8 | 1342.6 |
| 25°   | 1123.5 | 1122.6 | 1071.0 | 1028.3 | 1003.7 | 998.2  | 1014.0 | 1047.4 | 1104.3 | 1221.8 | 1393.3 |
| 27.5° | 1275.8 | 1268.4 | 1216.9 | 1153.0 | 1099.5 | 1091.6 | 1088.1 | 1102.4 | 1145.6 | 1264.0 | 1455.2 |
| 30°   | 1447.8 | 1440.9 | 1385.4 | 1301.9 | 1227.7 | 1214.9 | 1182.5 | 1175.2 | 1207.0 | 1321.5 | 1541.1 |
| 32.5° | 1636.4 | 1632.0 | 1565.7 | 1464.5 | 1365.3 | 1350.5 | 1296.0 | 1276.3 | 1301.3 | 1408.5 | 1661.0 |
| 35°   | 1794.7 | 1790.7 | 1735.6 | 1631.5 | 1510.1 | 1492.0 | 1436.4 | 1414.4 | 1427.1 | 1520.0 | 1817.7 |
| 37.5° | 1937.6 | 1935.6 | 1888.5 | 1806.5 | 1681.1 | 1659.1 | 1596.6 | 1589.3 | 1586.8 | 1666.9 | 2007.9 |
| 40°   | 2070.2 | 2065.3 | 2016.2 | 1972.9 | 1880.2 | 1860.0 | 1804.9 | 1798.6 | 1779.9 | 1847.7 | 2223.0 |
| 42.5° | 2217.1 | 2204.4 | 2133.1 | 2112.9 | 2087.9 | 2071.2 | 2038.3 | 2039.2 | 1998.0 | 2051.5 | 2451.0 |
| 45°   | 2337.0 | 2329.6 | 2256.4 | 2244.6 | 2271.6 | 2264.7 | 2293.2 | 2300.6 | 2220.6 | 2265.2 | 2687.8 |
| 47.5° | 2465.7 | 2458.9 | 2397.0 | 2388.6 | 2461.7 | 2463.7 | 2564.4 | 2566.9 | 2437.7 | 2487.4 | 2925.0 |
| 50°   | 2624.4 | 2614.6 | 2553.2 | 2563.4 | 2645.5 | 2652.9 | 2837.1 | 2820.4 | 2637.6 | 2712.8 | 3160.4 |
| 52.5° | 2729.1 | 2734.9 | 2721.7 | 2738.4 | 2850.4 | 2857.3 | 3105.3 | 3062.6 | 2835.7 | 2935.4 | 3391.3 |
| 55°   | 2806.1 | 2817.9 | 2859.2 | 2897.6 | 3066.5 | 3073.4 | 3358.3 | 3293.0 | 2999.8 | 3141.7 | 3608.4 |
| 57.5° | 2905.4 | 2888.7 | 2965.8 | 3040.5 | 3271.9 | 3290.0 | 3604.5 | 3515.0 | 3145.1 | 3319.6 | 3757.2 |
| 60°   | 3047.8 | 3036.0 | 3096.0 | 3206.5 | 3501.8 | 3530.8 | 3864.9 | 3715.0 | 3251.7 | 3460.5 | 3786.2 |
| 62.5° | 3336.8 | 3307.3 | 3316.6 | 3414.4 | 3791.7 | 3830.0 | 4158.6 | 3889.5 | 3304.8 | 3515.5 | 3631.0 |
| 65°   | 3768.5 | 3718.0 | 3670.8 | 3738.6 | 4199.9 | 4237.8 | 4490.2 | 4026.5 | 3285.1 | 3408.9 | 3218.8 |
| 67.5° | 4312.4 | 4262.3 | 4204.3 | 4268.2 | 4801.2 | 4831.2 | 4899.5 | 4103.6 | 3130.4 | 2998.2 | 2490.2 |
| 70°   | 4760.9 | 4742.3 | 4811.6 | 5074.4 | 5761.6 | 5762.7 | 5424.2 | 4039.7 | 2706.4 | 2125.7 | 1440.9 |
| 72.5° | 4701.5 | 4690.2 | 5055.2 | 5867.8 | 6972.2 | 6946.1 | 5920.8 | 3556.3 | 1823.2 | 959.0  | 539.9  |
| 75°   | 3857.0 | 3930.2 | 4495.6 | 5853.6 | 7407.0 | 7403.5 | 5616.7 | 2260.8 | 754.1  | 397.4  | 279.0  |
| 77.5° | 2068.2 | 2184.2 | 2918.7 | 4321.7 | 5782.3 | 5869.3 | 3948.8 | 791.0  | 323.8  | 254.5  | 193.1  |
| 80°   | 674.6  | 775.7  | 1163.4 | 2200.4 | 3757.2 | 3741.0 | 1692.5 | 310.5  | 221.6  | 180.3  | 133.7  |
| 82.5° | 286.4  | 298.2  | 519.8  | 1039.0 | 1928.2 | 1898.3 | 538.9  | 178.4  | 155.7  | 123.3  | 82.5   |
| 85°   | 112.0  | 125.3  | 229.4  | 480.4  | 835.2  | 817.0  | 194.5  | 88.5   | 99.7   | 80.6   | 49.1   |
| 87.5° | 36.8   | 44.7   | 82.0   | 164.6  | 259.8  | 250.5  | 47.7   | 30.4   | 43.3   | 36.8   | 17.7   |
| 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°    | 1211.0 | 1211.0 | 1211.0 | 1211.0 | 1211.0 | 1211.0 | 1211.0 | 1211.0 | 1211.0 | 1211.0 | 1211.0 |
| 2.5°  | 1221.3 | 1229.2 | 1238.5 | 1252.2 | 1264.0 | 1273.9 | 1284.2 | 1290.6 | 1293.0 | 1300.4 | 1299.9 |
| 5°    | 1230.1 | 1247.3 | 1270.4 | 1293.0 | 1315.2 | 1328.4 | 1340.2 | 1346.1 | 1351.5 | 1355.5 | 1356.4 |
| 7.5°  | 1244.9 | 1267.0 | 1303.4 | 1332.8 | 1351.5 | 1362.3 | 1370.1 | 1368.2 | 1370.1 | 1371.1 | 1372.6 |
| 10°   | 1257.7 | 1288.6 | 1331.9 | 1359.9 | 1374.1 | 1374.6 | 1372.6 | 1365.7 | 1362.3 | 1362.8 | 1363.8 |
| 12.5° | 1272.8 | 1307.3 | 1353.9 | 1377.5 | 1381.5 | 1370.6 | 1362.3 | 1350.5 | 1346.1 | 1344.1 | 1343.2 |
| 15°   | 1293.6 | 1332.8 | 1378.0 | 1386.8 | 1377.1 | 1363.2 | 1349.0 | 1329.8 | 1320.1 | 1312.2 | 1314.7 |
| 17.5° | 1318.6 | 1361.8 | 1396.7 | 1390.3 | 1369.2 | 1346.5 | 1323.5 | 1294.5 | 1274.4 | 1266.0 | 1266.5 |
| 20°   | 1353.4 | 1392.3 | 1410.9 | 1382.9 | 1351.1 | 1316.6 | 1277.4 | 1241.9 | 1223.2 | 1214.9 | 1213.9 |
| 22.5° | 1395.7 | 1433.1 | 1424.6 | 1370.1 | 1325.0 | 1270.0 | 1220.8 | 1194.7 | 1185.4 | 1179.6 | 1180.5 |
| 25°   | 1446.3 | 1478.3 | 1434.5 | 1351.5 | 1282.3 | 1208.1 | 1170.2 | 1161.8 | 1157.4 | 1153.0 | 1153.0 |
| 27.5° | 1512.2 | 1529.3 | 1441.9 | 1324.0 | 1215.4 | 1142.3 | 1128.4 | 1130.0 | 1128.4 | 1121.0 | 1122.6 |
| 30°   | 1599.1 | 1595.6 | 1448.7 | 1279.3 | 1138.8 | 1082.8 | 1083.7 | 1090.1 | 1091.1 | 1086.2 | 1088.7 |
| 32.5° | 1713.6 | 1678.6 | 1452.2 | 1221.3 | 1065.6 | 1030.7 | 1031.7 | 1038.5 | 1043.4 | 1035.1 | 1039.0 |
| 35°   | 1852.1 | 1775.5 | 1446.8 | 1148.6 | 1009.1 | 981.0  | 973.7  | 975.7  | 977.1  | 969.2  | 974.7  |
| 37.5° | 2013.7 | 1884.1 | 1422.7 | 1068.0 | 962.4  | 932.4  | 916.8  | 903.4  | 895.5  | 888.3  | 893.2  |
| 40°   | 2191.0 | 2002.4 | 1378.5 | 989.4  | 910.3  | 880.9  | 857.3  | 832.2  | 805.6  | 795.9  | 800.3  |
| 42.5° | 2376.8 | 2124.3 | 1325.0 | 914.3  | 850.4  | 826.4  | 801.2  | 765.0  | 725.1  | 705.0  | 707.5  |
| 45°   | 2569.4 | 2249.1 | 1272.4 | 840.1  | 788.9  | 778.7  | 749.7  | 705.9  | 662.8  | 637.1  | 635.2  |
| 47.5° | 2758.0 | 2366.9 | 1195.3 | 765.4  | 731.5  | 742.8  | 720.2  | 679.9  | 631.8  | 591.5  | 587.1  |
| 50°   | 2938.3 | 2477.5 | 1069.0 | 689.7  | 684.8  | 732.0  | 710.4  | 652.4  | 597.4  | 545.8  | 541.4  |
| 52.5° | 3117.1 | 2566.9 | 907.4  | 620.9  | 659.8  | 729.1  | 697.6  | 633.8  | 566.4  | 512.4  | 506.5  |
| 55°   | 3268.9 | 2613.1 | 751.6  | 562.0  | 623.4  | 704.0  | 682.3  | 611.6  | 522.8  | 465.2  | 460.3  |
| 57.5° | 3355.4 | 2575.7 | 622.0  | 504.1  | 573.3  | 662.8  | 656.3  | 564.5  | 470.7  | 426.4  | 420.6  |
| 60°   | 3318.0 | 2424.4 | 515.9  | 453.5  | 525.6  | 618.0  | 611.1  | 517.8  | 430.8  | 389.1  | 383.1  |
| 62.5° | 3112.2 | 2136.1 | 431.8  | 409.3  | 482.5  | 572.4  | 565.9  | 482.0  | 400.4  | 360.1  | 353.7  |
| 65°   | 2697.6 | 1737.7 | 366.5  | 372.4  | 438.7  | 517.3  | 526.6  | 451.9  | 376.3  | 337.0  | 330.7  |
| 67.5° | 2057.5 | 1258.6 | 315.4  | 340.4  | 396.0  | 463.3  | 490.3  | 430.4  | 356.2  | 318.9  | 312.9  |
| 70°   | 1172.7 | 714.8  | 272.1  | 309.5  | 358.1  | 413.2  | 462.3  | 413.2  | 334.6  | 303.6  | 299.7  |
| 72.5° | 444.6  | 328.2  | 235.3  | 278.6  | 321.7  | 370.9  | 431.3  | 386.1  | 309.5  | 286.4  | 282.5  |
| 75°   | 237.3  | 200.0  | 198.0  | 242.2  | 280.0  | 329.6  | 392.6  | 359.6  | 290.8  | 302.6  | 312.4  |
| 77.5° | 161.6  | 141.4  | 165.5  | 207.4  | 234.3  | 283.9  | 351.3  | 319.3  | 252.0  | 251.0  | 231.3  |
| 80°   | 112.0  | 100.2  | 134.6  | 167.1  | 181.3  | 238.7  | 306.6  | 274.1  | 205.3  | 191.6  | 183.3  |
| 82.5° | 67.3   | 65.3   | 100.8  | 124.7  | 128.2  | 184.2  | 254.0  | 229.9  | 168.0  | 146.4  | 147.4  |
| 85°   | 36.8   | 38.8   | 64.4   | 73.2   | 74.7   | 128.7  | 199.0  | 177.8  | 129.3  | 108.5  | 109.6  |
| 87.5° | 10.4   | 13.2   | 23.6   | 29.0   | 35.9   | 66.8   | 118.4  | 105.6  | 64.9   | 45.2   | 45.2   |
| 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)