

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: P961572

Luminaire Tested: **NVN-SB2A-830-U-T4W-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P961572  
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-SB2A-830-U-T4W-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 350mA 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: 6364.2 lumens  
Efficiency: N/A  
Efficacy: 111.1 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): 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



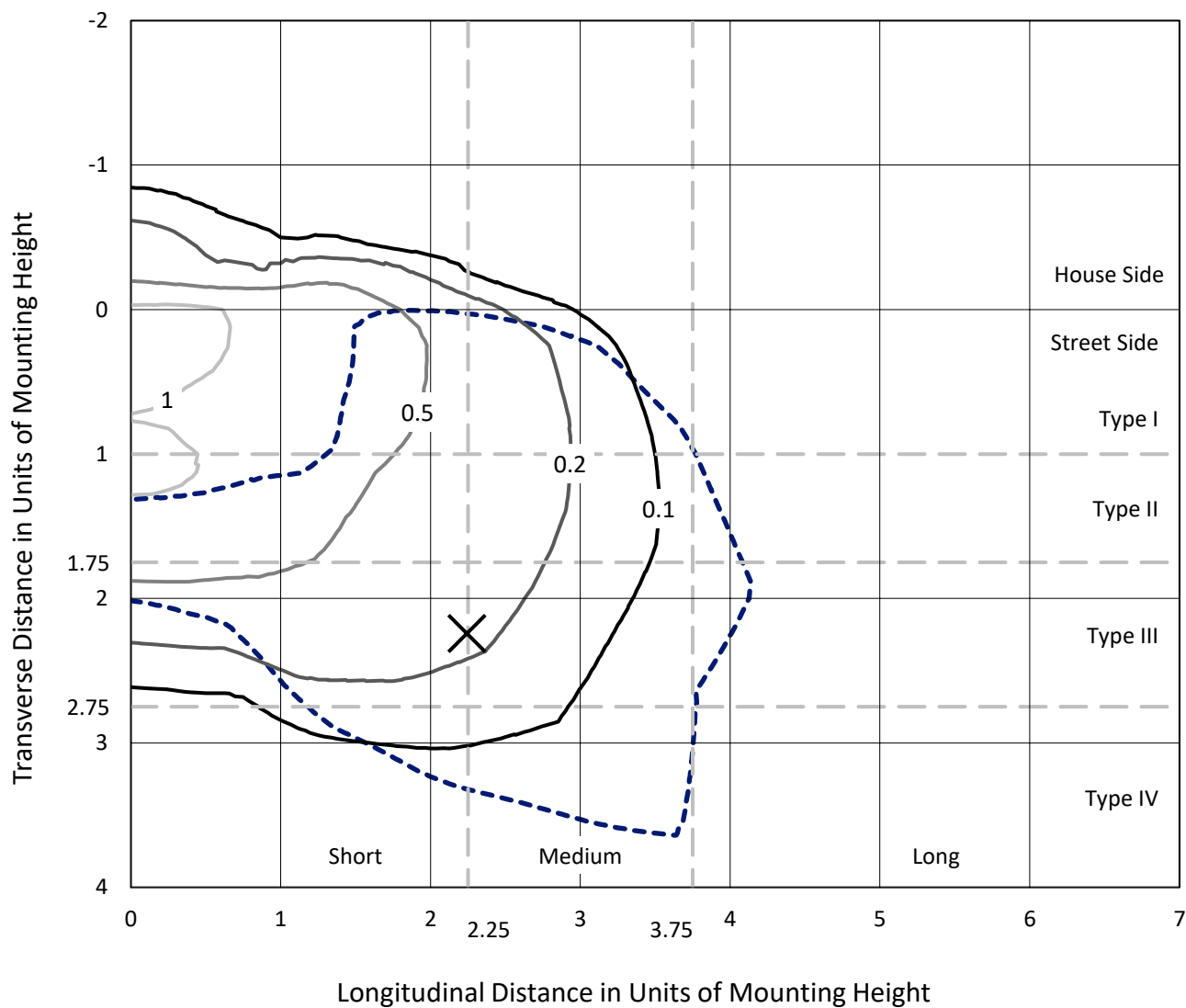
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## Iso-Footcandle Lines of Horizontal Illumination

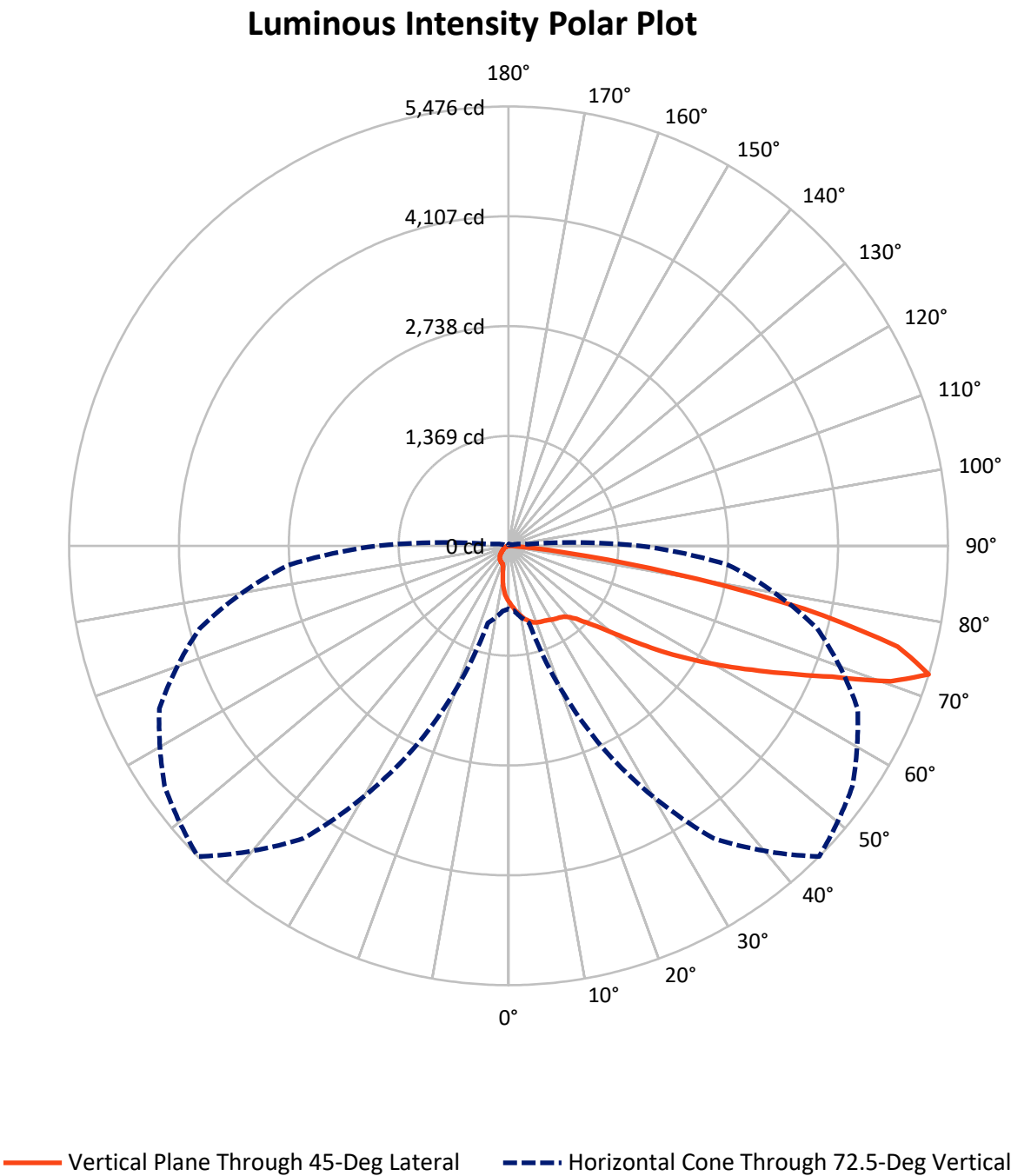
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
Type IV - Short - N/A

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 668.7    | 0.0    | 668.7  |
|                    | % Fixture | 10.5     | 0.0    | 10.5   |
| <b>Street Side</b> | Lumens    | 5695.5   | 0.0    | 5695.5 |
|                    | % Fixture | 89.5     | 0.0    | 89.5   |
| <b>Total</b>       | Lumens    | 6364.2   | 0.0    | 6364.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 65.7   | 1.0       |
| 10°-20°   | 192.0  | 3.0       |
| 20°-30°   | 315.3  | 5.0       |
| 30°-40°   | 447.1  | 7.0       |
| 40°-50°   | 739.1  | 11.6      |
| 50°-60°   | 1327.7 | 20.9      |
| 60°-70°   | 1843.5 | 29.0      |
| 70°-80°   | 1337.2 | 21.0      |
| 80°-90°   | 96.7   | 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°    | 6364.2 | 100.0     |
| 0°-180°   | 6364.2 | 100.0     |

**Coefficient of Utilization**



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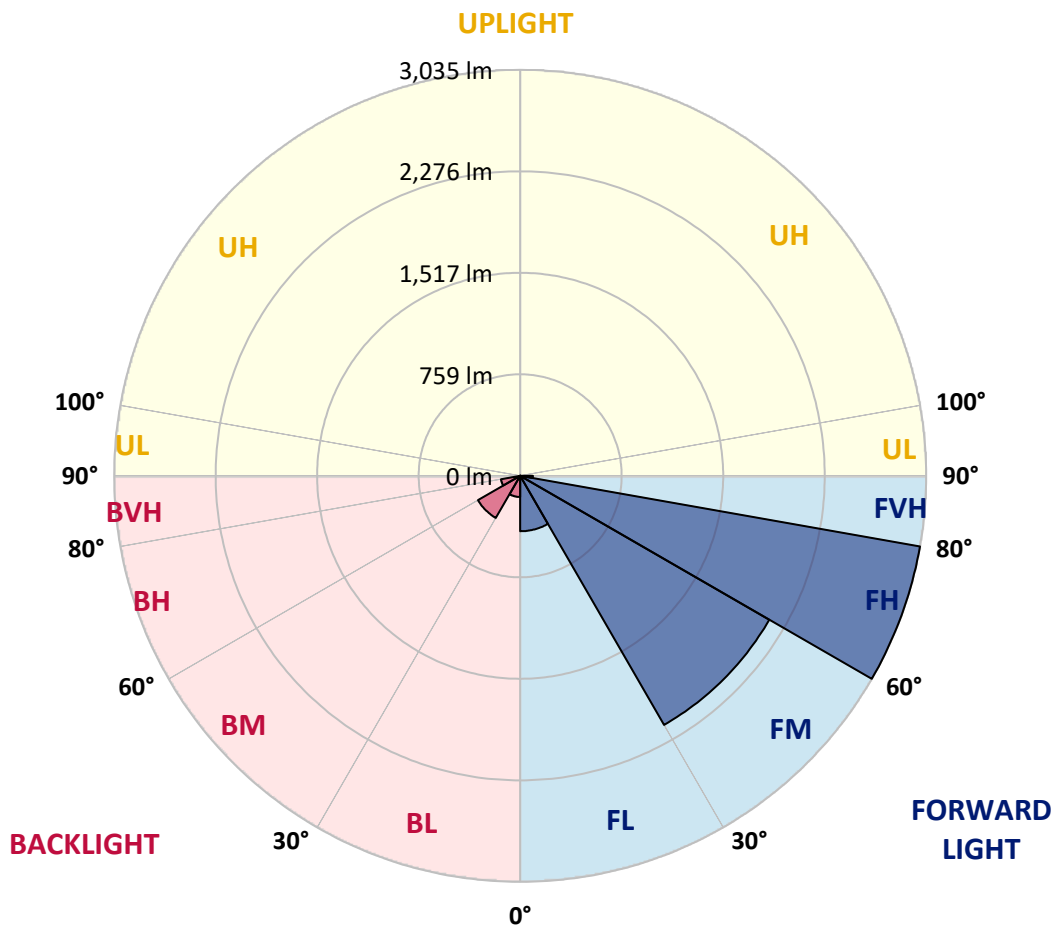
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 414.6  | 6.5       |                         |      |         |
| FM   | (30°-60°)   | 2150.2 | 33.8      |                         |      |         |
| FH   | (60°-80°)   | 3034.9 | 47.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 95.9   | 1.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 158.4  | 2.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 363.7  | 5.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 145.8  | 2.3       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 0.8    | 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°    | 697.2  | 697.2  | 697.2  | 697.2  | 697.2  | 697.2  | 697.2  | 697.2  | 697.2  | 697.2  | 697.2  |
| 2.5°  | 761.5  | 762.8  | 762.0  | 756.8  | 748.0  | 743.2  | 740.7  | 732.0  | 726.3  | 716.4  | 705.9  |
| 5°    | 831.5  | 836.7  | 833.6  | 823.2  | 806.7  | 795.0  | 791.5  | 773.7  | 757.6  | 738.9  | 717.2  |
| 7.5°  | 905.7  | 908.4  | 902.7  | 889.2  | 867.0  | 847.1  | 844.1  | 819.3  | 793.7  | 765.0  | 735.4  |
| 10°   | 970.1  | 973.0  | 964.4  | 944.8  | 919.6  | 894.8  | 890.5  | 863.2  | 832.7  | 797.6  | 759.7  |
| 12.5° | 1023.9 | 1026.9 | 1015.7 | 992.2  | 964.4  | 938.7  | 934.4  | 905.7  | 872.3  | 833.2  | 786.3  |
| 15°   | 1064.7 | 1070.4 | 1055.1 | 1029.9 | 1000.0 | 974.4  | 972.2  | 943.9  | 911.3  | 868.0  | 817.9  |
| 17.5° | 1088.7 | 1094.3 | 1079.9 | 1049.5 | 1023.9 | 1002.1 | 999.6  | 976.1  | 945.7  | 903.9  | 848.8  |
| 20°   | 1092.5 | 1097.8 | 1082.5 | 1056.1 | 1034.7 | 1017.4 | 1016.1 | 999.2  | 976.9  | 937.1  | 882.3  |
| 22.5° | 1080.8 | 1087.3 | 1073.4 | 1052.2 | 1037.3 | 1028.2 | 1026.5 | 1016.9 | 1004.3 | 970.5  | 913.6  |
| 25°   | 1068.7 | 1073.8 | 1063.4 | 1044.8 | 1036.9 | 1036.1 | 1037.3 | 1035.7 | 1033.0 | 1004.3 | 950.1  |
| 27.5° | 1067.7 | 1073.4 | 1061.7 | 1043.9 | 1039.6 | 1048.7 | 1049.9 | 1058.2 | 1060.4 | 1035.1 | 985.2  |
| 30°   | 1075.1 | 1079.0 | 1067.7 | 1049.1 | 1046.9 | 1067.7 | 1068.2 | 1082.9 | 1086.4 | 1061.3 | 1020.0 |
| 32.5° | 1091.2 | 1095.5 | 1084.2 | 1056.9 | 1053.9 | 1082.9 | 1084.2 | 1103.8 | 1109.5 | 1089.1 | 1056.5 |
| 35°   | 1129.0 | 1134.3 | 1121.1 | 1078.6 | 1067.7 | 1097.3 | 1101.2 | 1124.2 | 1135.5 | 1118.6 | 1094.3 |
| 37.5° | 1223.2 | 1208.1 | 1190.2 | 1122.5 | 1099.5 | 1119.9 | 1126.4 | 1153.3 | 1173.3 | 1153.7 | 1139.4 |
| 40°   | 1457.4 | 1409.7 | 1354.0 | 1197.2 | 1155.1 | 1168.1 | 1173.3 | 1200.3 | 1227.6 | 1208.5 | 1201.5 |
| 42.5° | 1808.8 | 1752.3 | 1662.9 | 1369.2 | 1238.9 | 1245.5 | 1249.4 | 1272.8 | 1311.5 | 1296.2 | 1298.0 |
| 45°   | 2122.1 | 2101.7 | 2010.4 | 1662.9 | 1395.7 | 1363.6 | 1368.4 | 1380.6 | 1437.5 | 1431.8 | 1443.1 |
| 47.5° | 2362.7 | 2350.9 | 2280.6 | 2000.0 | 1660.7 | 1508.3 | 1521.7 | 1527.4 | 1609.5 | 1629.4 | 1659.9 |
| 50°   | 2547.7 | 2543.4 | 2480.4 | 2299.7 | 2007.0 | 1721.5 | 1726.3 | 1714.1 | 1837.1 | 1886.6 | 1944.4 |
| 52.5° | 2722.4 | 2737.2 | 2690.7 | 2578.2 | 2376.6 | 2000.9 | 2000.0 | 1942.7 | 2108.6 | 2183.4 | 2282.0 |
| 55°   | 2880.0 | 2885.3 | 2890.1 | 2862.3 | 2748.4 | 2318.9 | 2310.6 | 2216.8 | 2423.5 | 2500.9 | 2607.7 |
| 57.5° | 3028.3 | 3030.4 | 3073.0 | 3129.8 | 3135.5 | 2660.3 | 2645.1 | 2532.6 | 2767.6 | 2822.7 | 2888.3 |
| 60°   | 3127.7 | 3137.7 | 3227.6 | 3385.7 | 3454.8 | 3012.6 | 3004.3 | 2889.7 | 3117.7 | 3143.4 | 3131.2 |
| 62.5° | 2984.3 | 3045.2 | 3271.9 | 3585.6 | 3756.3 | 3403.1 | 3399.2 | 3291.5 | 3486.0 | 3465.2 | 3361.0 |
| 65°   | 2415.7 | 2518.6 | 2917.5 | 3720.6 | 4052.1 | 3839.2 | 3844.9 | 3730.2 | 3864.5 | 3796.7 | 3547.7 |
| 67.5° | 1689.8 | 1798.5 | 2270.2 | 3731.5 | 4382.7 | 4351.4 | 4384.0 | 4204.1 | 4266.3 | 4114.2 | 3592.1 |
| 70°   | 1168.5 | 1224.6 | 1531.7 | 3497.8 | 4640.3 | 5056.8 | 5056.0 | 4786.2 | 4665.9 | 4258.9 | 3366.2 |
| 72.5° | 785.9  | 815.0  | 994.8  | 2775.0 | 4450.9 | 5476.1 | 5450.8 | 5231.1 | 4800.6 | 3983.0 | 2750.2 |
| 75°   | 331.5  | 352.7  | 460.4  | 1559.5 | 3521.3 | 5010.0 | 4941.7 | 4622.9 | 4265.4 | 3136.4 | 1715.8 |
| 77.5° | 105.2  | 114.3  | 181.6  | 558.2  | 1939.6 | 3765.8 | 3693.7 | 2887.0 | 2858.8 | 1573.4 | 627.3  |
| 80°   | 49.9   | 58.2   | 102.1  | 224.2  | 763.2  | 2048.2 | 2038.2 | 1309.7 | 1229.8 | 424.9  | 126.0  |
| 82.5° | 21.7   | 25.6   | 56.5   | 119.9  | 341.4  | 730.6  | 745.5  | 445.7  | 368.8  | 161.1  | 38.6   |
| 85°   | 7.0    | 9.1    | 26.0   | 55.1   | 144.2  | 181.6  | 179.4  | 106.0  | 148.5  | 87.7   | 13.4   |
| 87.5° | 0.0    | 0.0    | 8.7    | 12.6   | 14.8   | 10.5   | 11.7   | 9.1    | 41.3   | 24.3   | 4.8    |
| 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°    | 697.2  | 697.2  | 697.2 | 697.2 | 697.2 | 697.2 | 697.2 | 697.2 | 697.2 | 697.2 | 697.2 |
| 2.5°  | 700.7  | 693.7  | 681.6 | 670.2 | 660.3 | 650.3 | 644.2 | 635.5 | 634.7 | 634.7 | 636.8 |
| 5°    | 705.5  | 694.1  | 672.5 | 649.4 | 622.9 | 597.8 | 572.6 | 548.2 | 540.4 | 534.7 | 537.3 |
| 7.5°  | 719.3  | 701.5  | 667.3 | 623.4 | 573.0 | 517.8 | 479.2 | 437.5 | 421.4 | 412.7 | 414.0 |
| 10°   | 739.3  | 715.0  | 662.9 | 586.0 | 504.3 | 429.2 | 374.0 | 328.8 | 311.5 | 304.1 | 304.1 |
| 12.5° | 761.5  | 731.5  | 655.1 | 539.6 | 429.2 | 339.3 | 285.4 | 264.6 | 262.0 | 262.0 | 262.0 |
| 15°   | 788.0  | 751.5  | 641.6 | 484.8 | 350.5 | 268.4 | 249.4 | 250.2 | 252.9 | 254.6 | 254.6 |
| 17.5° | 815.4  | 772.8  | 620.3 | 423.5 | 281.1 | 241.5 | 242.0 | 243.2 | 245.5 | 247.1 | 247.1 |
| 20°   | 844.9  | 794.1  | 592.0 | 358.3 | 241.1 | 233.7 | 235.0 | 236.4 | 238.0 | 238.9 | 239.3 |
| 22.5° | 876.6  | 814.1  | 558.6 | 294.5 | 227.7 | 227.2 | 227.7 | 228.9 | 231.1 | 231.1 | 232.0 |
| 25°   | 910.5  | 836.2  | 520.4 | 248.0 | 220.7 | 220.7 | 221.5 | 222.4 | 224.2 | 224.2 | 224.6 |
| 27.5° | 945.3  | 856.6  | 480.0 | 223.8 | 214.6 | 214.1 | 214.1 | 215.5 | 216.4 | 216.8 | 217.2 |
| 30°   | 983.5  | 880.6  | 439.6 | 218.5 | 209.8 | 207.7 | 206.3 | 207.3 | 208.1 | 208.5 | 209.4 |
| 32.5° | 1022.5 | 903.5  | 403.5 | 220.7 | 205.0 | 201.1 | 196.8 | 195.9 | 195.9 | 197.6 | 199.0 |
| 35°   | 1066.0 | 928.8  | 375.8 | 228.1 | 202.4 | 191.6 | 184.6 | 180.7 | 181.1 | 183.8 | 185.0 |
| 37.5° | 1118.2 | 959.2  | 355.4 | 234.6 | 200.7 | 180.7 | 169.4 | 164.6 | 161.6 | 164.6 | 163.8 |
| 40°   | 1186.3 | 1003.9 | 340.6 | 239.7 | 198.5 | 168.1 | 152.9 | 145.1 | 139.4 | 141.1 | 140.3 |
| 42.5° | 1286.7 | 1074.3 | 335.0 | 240.3 | 193.7 | 153.3 | 136.0 | 125.6 | 117.3 | 117.8 | 116.0 |
| 45°   | 1427.4 | 1185.5 | 364.0 | 234.6 | 183.3 | 137.2 | 118.2 | 104.2 | 99.0  | 97.8  | 96.0  |
| 47.5° | 1620.3 | 1347.5 | 431.3 | 222.8 | 168.1 | 121.7 | 100.8 | 89.1  | 85.2  | 82.9  | 81.7  |
| 50°   | 1878.8 | 1555.6 | 506.0 | 209.8 | 152.9 | 106.9 | 86.4  | 79.0  | 76.5  | 74.3  | 73.8  |
| 52.5° | 2178.5 | 1766.7 | 567.3 | 196.8 | 137.7 | 93.8  | 77.3  | 73.0  | 70.8  | 69.1  | 68.7  |
| 55°   | 2453.5 | 1912.2 | 563.9 | 182.9 | 122.9 | 83.4  | 70.8  | 68.2  | 65.6  | 63.9  | 63.0  |
| 57.5° | 2624.6 | 1932.6 | 464.8 | 167.7 | 106.0 | 75.1  | 64.7  | 63.0  | 60.0  | 57.8  | 57.3  |
| 60°   | 2703.2 | 1816.2 | 325.8 | 147.7 | 89.1  | 67.3  | 58.2  | 57.3  | 53.4  | 50.4  | 49.5  |
| 62.5° | 2717.6 | 1599.9 | 217.2 | 122.9 | 74.3  | 60.0  | 51.7  | 50.4  | 45.2  | 40.0  | 37.3  |
| 65°   | 2659.4 | 1290.6 | 150.3 | 96.0  | 63.4  | 52.2  | 44.3  | 41.7  | 36.1  | 30.9  | 29.1  |
| 67.5° | 2475.2 | 906.2  | 104.7 | 69.1  | 53.9  | 41.3  | 35.2  | 34.3  | 29.9  | 25.6  | 24.3  |
| 70°   | 2137.7 | 516.5  | 69.9  | 51.7  | 42.5  | 28.2  | 27.8  | 28.7  | 24.3  | 20.8  | 19.1  |
| 72.5° | 1639.0 | 236.4  | 43.5  | 37.8  | 29.1  | 19.1  | 22.1  | 22.5  | 18.7  | 15.7  | 13.9  |
| 75°   | 964.8  | 101.2  | 27.4  | 24.3  | 14.8  | 12.6  | 16.1  | 16.5  | 12.6  | 9.9   | 8.7   |
| 77.5° | 328.4  | 38.2   | 17.4  | 14.3  | 7.4   | 7.0   | 10.5  | 10.5  | 7.0   | 3.9   | 3.1   |
| 80°   | 74.7   | 14.3   | 8.7   | 5.6   | 3.5   | 3.1   | 3.5   | 3.1   | 1.7   | 0.4   | 0.0   |
| 82.5° | 21.3   | 5.6    | 3.5   | 2.2   | 1.3   | 1.3   | 0.4   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 6.0    | 2.6    | 0.8   | 0.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 2.6    | 0.4    | 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)