

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: P960911

Luminaire Tested: **NVN-SB1D-740-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P960911  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB1D-740-U-T2R  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

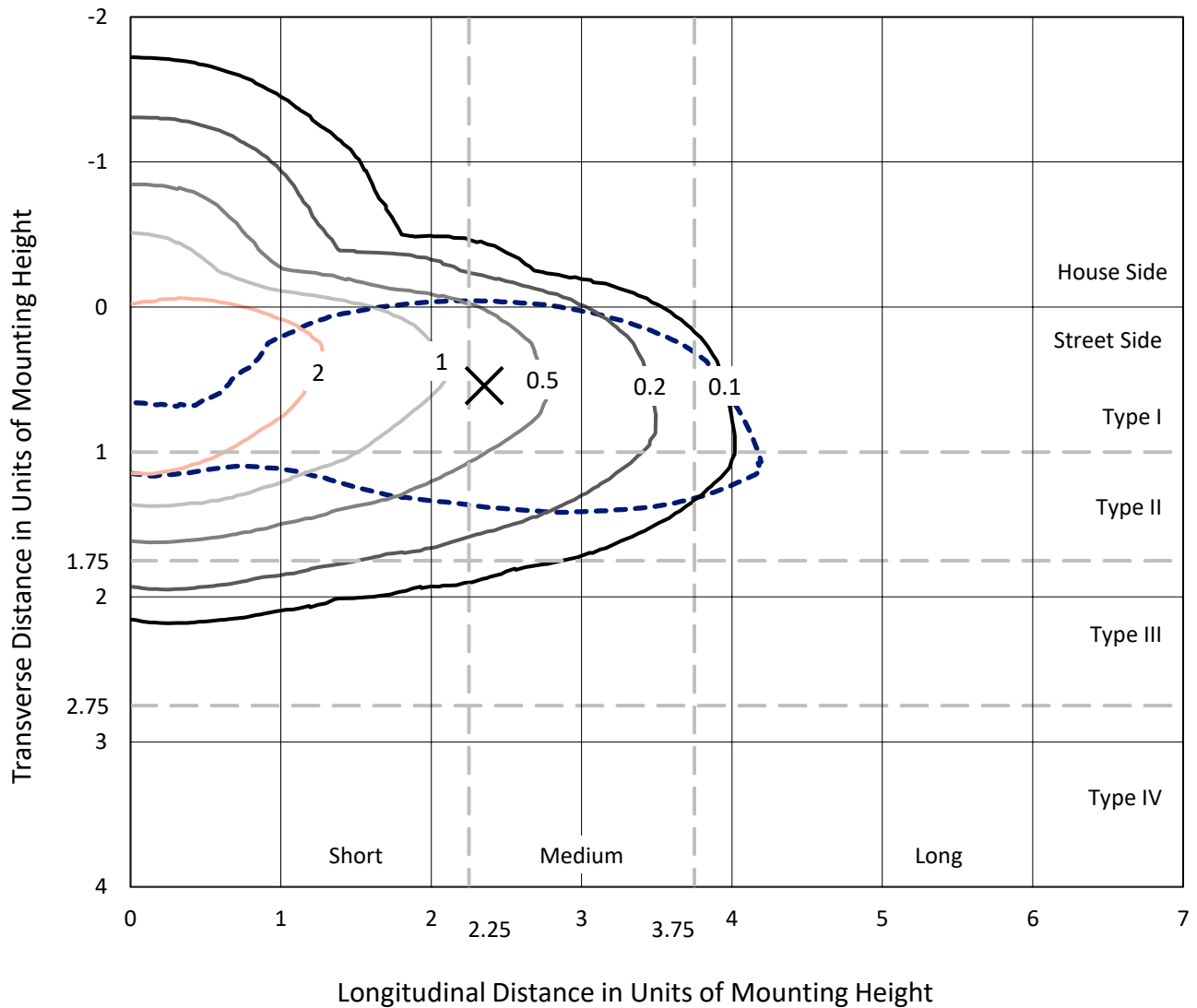
Lumens per Lamp: N/A  
Luminaire Lumens: 11243.2 lumens  
Efficiency: N/A  
Efficacy: 141.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): 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

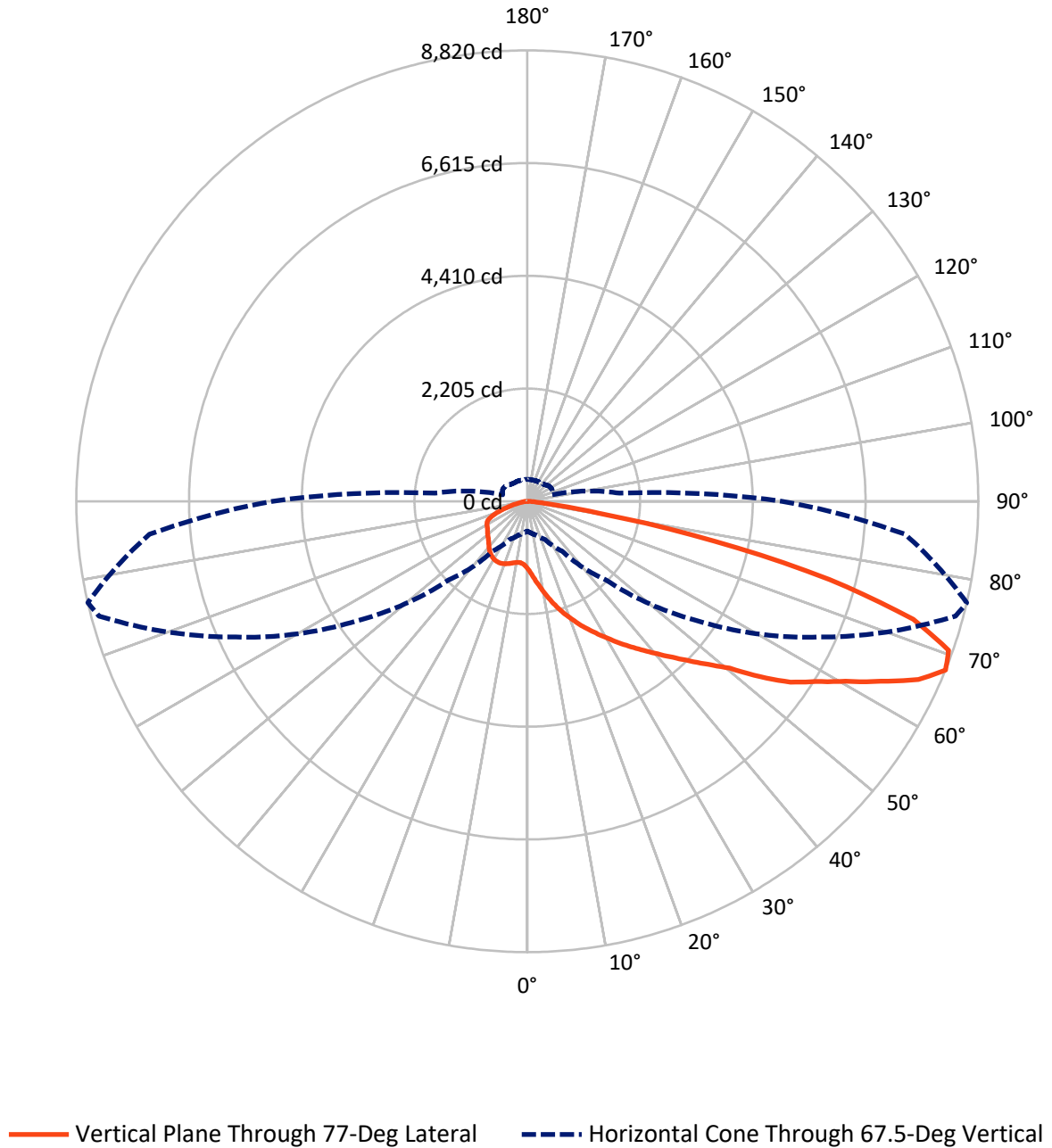
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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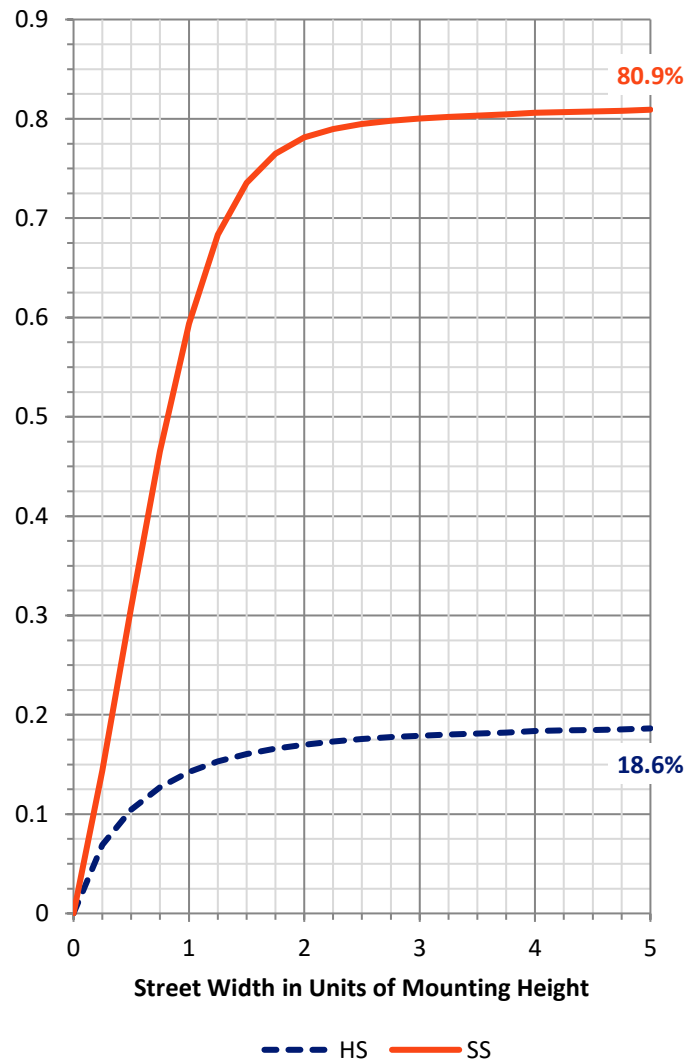
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2126.8   | 0.0    | 2126.8  |
|                    | % Fixture | 18.9     | 0.0    | 18.9    |
| <b>Street Side</b> | Lumens    | 9116.5   | 0.0    | 9116.5  |
|                    | % Fixture | 81.1     | 0.0    | 81.1    |
| <b>Total</b>       | Lumens    | 11243.2  | 0.0    | 11243.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 141.4   | 1.3       |
| 10°-20°   | 508.0   | 4.5       |
| 20°-30°   | 959.1   | 8.5       |
| 30°-40°   | 1545.1  | 13.7      |
| 40°-50°   | 2113.5  | 18.8      |
| 50°-60°   | 2384.0  | 21.2      |
| 60°-70°   | 2225.2  | 19.8      |
| 70°-80°   | 1219.8  | 10.8      |
| 80°-90°   | 147.1   | 1.3       |
| 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°    | 11243.2 | 100.0     |
| 0°-180°   | 11243.2 | 100.0     |

**Coefficient of Utilization**



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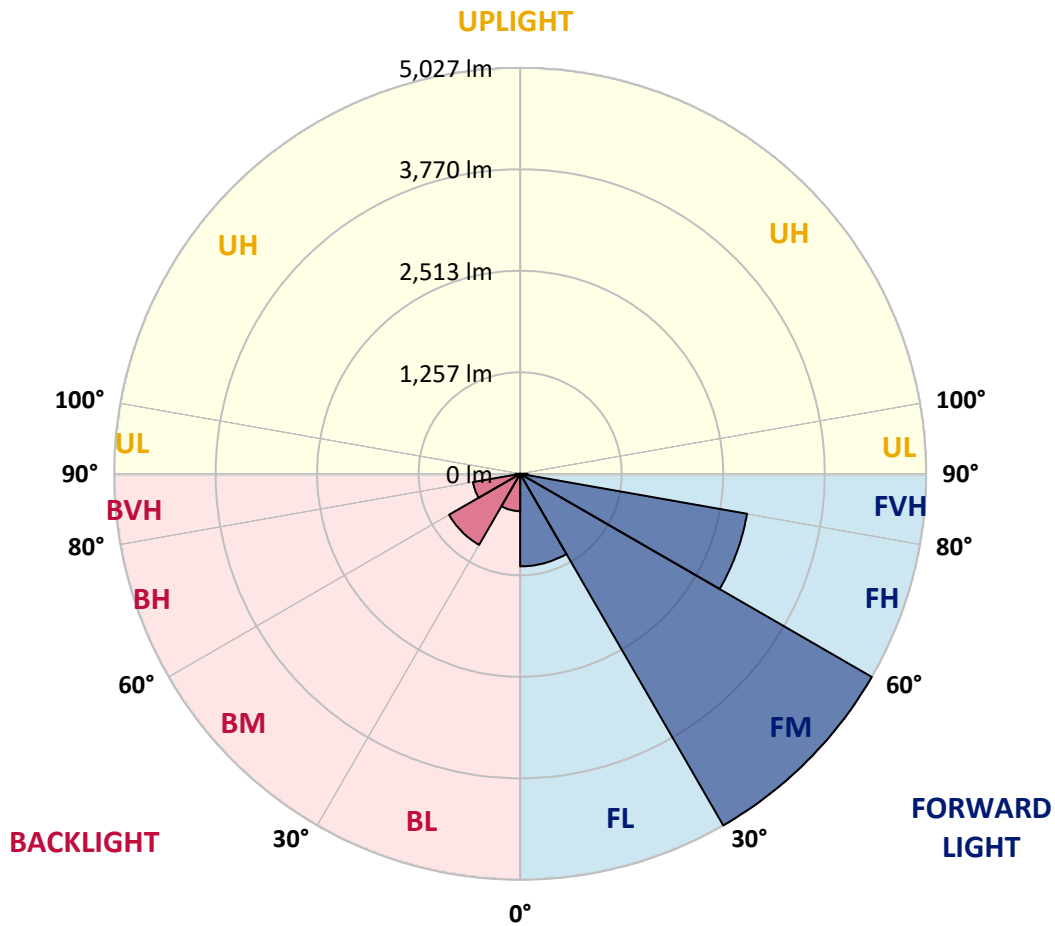
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1146.1 | 10.2      |                         |      |         |
| FM (30°-60°)   | 5026.7 | 44.7      |                         |      |         |
| FH (60°-80°)   | 2851.6 | 25.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 92.0   | 0.8       |                         |      | G1/100  |
| BL (0°-30°)    | 462.4  | 4.1       | B1/500                  |      |         |
| BM (30°-60°)   | 1015.9 | 9.0       | B2/2500                 |      |         |
| BH (60°-80°)   | 593.3  | 5.3       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 55.1   | 0.5       |                         |      | 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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 77°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1319.2 | 1319.2 | 1319.2 | 1319.2 | 1319.2 | 1319.2 | 1319.2 | 1319.2 | 1319.2 | 1319.2 | 1319.2 |
| 2.5°  | 1651.7 | 1663.4 | 1648.8 | 1648.8 | 1600.1 | 1574.5 | 1525.8 | 1488.6 | 1421.9 | 1410.3 | 1366.2 |
| 5°    | 1952.3 | 1966.9 | 1946.6 | 1937.9 | 1880.4 | 1827.6 | 1745.8 | 1665.1 | 1546.1 | 1533.9 | 1430.1 |
| 7.5°  | 2185.1 | 2203.6 | 2185.7 | 2176.4 | 2125.3 | 2066.1 | 1970.4 | 1857.8 | 1690.0 | 1666.2 | 1516.0 |
| 10°   | 2374.8 | 2377.8 | 2372.0 | 2375.4 | 2335.4 | 2286.7 | 2188.6 | 2057.4 | 1847.9 | 1815.4 | 1619.8 |
| 12.5° | 2482.2 | 2495.6 | 2507.1 | 2528.1 | 2521.1 | 2491.0 | 2402.7 | 2246.0 | 2015.0 | 1973.2 | 1733.0 |
| 15°   | 2532.8 | 2555.9 | 2582.1 | 2630.3 | 2669.1 | 2676.7 | 2609.3 | 2448.6 | 2185.1 | 2134.6 | 1847.4 |
| 17.5° | 2550.7 | 2572.8 | 2614.0 | 2683.7 | 2767.2 | 2823.5 | 2793.3 | 2645.3 | 2353.4 | 2295.4 | 1967.5 |
| 20°   | 2641.8 | 2648.2 | 2673.2 | 2739.3 | 2829.9 | 2923.3 | 2946.0 | 2834.5 | 2520.0 | 2454.4 | 2091.6 |
| 22.5° | 2836.9 | 2824.1 | 2831.0 | 2861.2 | 2926.3 | 3016.8 | 3068.4 | 3001.7 | 2691.1 | 2615.7 | 2217.0 |
| 25°   | 3158.9 | 3121.8 | 3084.6 | 3049.9 | 3082.9 | 3134.0 | 3192.6 | 3168.8 | 2870.5 | 2774.8 | 2343.6 |
| 27.5° | 3565.8 | 3520.6 | 3438.7 | 3324.4 | 3284.3 | 3302.3 | 3328.4 | 3323.8 | 3036.5 | 2939.6 | 2474.1 |
| 30°   | 3966.2 | 3913.4 | 3816.0 | 3650.5 | 3544.9 | 3497.3 | 3477.6 | 3464.2 | 3217.0 | 3113.6 | 2605.9 |
| 32.5° | 4286.0 | 4244.2 | 4148.5 | 3963.4 | 3810.1 | 3728.8 | 3663.2 | 3615.7 | 3405.6 | 3302.3 | 2745.2 |
| 35°   | 4565.8 | 4526.9 | 4417.2 | 4215.2 | 4048.6 | 3962.1 | 3876.2 | 3774.8 | 3601.7 | 3497.3 | 2894.9 |
| 37.5° | 4821.1 | 4782.2 | 4632.0 | 4421.8 | 4254.1 | 4194.3 | 4117.7 | 3945.3 | 3798.5 | 3699.8 | 3053.4 |
| 40°   | 4982.4 | 4973.8 | 4833.3 | 4595.4 | 4421.2 | 4391.6 | 4366.1 | 4143.3 | 4016.8 | 3925.0 | 3227.4 |
| 42.5° | 5023.6 | 5042.8 | 4931.4 | 4735.8 | 4569.9 | 4546.1 | 4605.8 | 4367.3 | 4261.6 | 4174.0 | 3424.7 |
| 45°   | 4924.4 | 4979.6 | 4906.5 | 4773.5 | 4675.4 | 4662.7 | 4818.2 | 4612.2 | 4532.7 | 4452.6 | 3662.7 |
| 47.5° | 4673.2 | 4766.6 | 4736.4 | 4717.9 | 4703.9 | 4759.1 | 5005.1 | 4872.2 | 4839.7 | 4770.0 | 3934.4 |
| 50°   | 4165.9 | 4342.9 | 4395.7 | 4513.0 | 4647.6 | 4833.9 | 5175.1 | 5156.0 | 5198.4 | 5128.2 | 4265.1 |
| 52.5° | 3288.9 | 3532.7 | 3839.1 | 4132.8 | 4474.6 | 4808.9 | 5362.1 | 5563.4 | 5742.2 | 5703.9 | 4791.0 |
| 55°   | 2714.9 | 2824.7 | 3060.2 | 3598.9 | 4139.2 | 4703.9 | 5446.2 | 5892.5 | 6281.9 | 6247.7 | 5189.7 |
| 57.5° | 2273.9 | 2372.0 | 2517.1 | 2966.9 | 3632.0 | 4465.4 | 5498.4 | 6093.3 | 6651.6 | 6648.2 | 5583.2 |
| 60°   | 1800.9 | 1904.8 | 2053.4 | 2372.0 | 3039.4 | 4053.3 | 5486.8 | 6322.0 | 7123.4 | 7152.4 | 6063.1 |
| 62.5° | 1266.9 | 1381.3 | 1546.1 | 1843.3 | 2434.1 | 3519.3 | 5250.0 | 6487.3 | 7678.9 | 7757.8 | 6640.6 |
| 65°   | 832.8  | 908.3  | 1032.5 | 1289.0 | 1813.6 | 2832.8 | 4797.9 | 6508.9 | 8273.2 | 8406.6 | 7182.7 |
| 67.5° | 583.8  | 612.8  | 686.0  | 825.3  | 1195.6 | 2172.3 | 4077.7 | 6286.5 | 8669.6 | 8819.9 | 7417.7 |
| 70°   | 455.6  | 470.1  | 507.3  | 562.9  | 751.0  | 1460.8 | 3124.7 | 5708.5 | 8584.8 | 8741.5 | 7172.2 |
| 72.5° | 393.5  | 407.4  | 421.4  | 428.3  | 503.8  | 901.9  | 2116.6 | 4772.9 | 7786.8 | 7893.0 | 6236.1 |
| 75°   | 356.9  | 360.4  | 372.0  | 369.7  | 384.2  | 585.0  | 1221.7 | 3477.6 | 6143.7 | 6107.3 | 4603.5 |
| 77.5° | 300.0  | 304.7  | 323.8  | 320.9  | 341.2  | 399.9  | 634.4  | 2244.2 | 3983.0 | 3734.7 | 2562.3 |
| 80°   | 254.2  | 256.6  | 277.5  | 274.0  | 296.5  | 289.6  | 323.8  | 1143.9 | 1689.4 | 1431.2 | 738.8  |
| 82.5° | 88.3   | 109.1  | 211.9  | 218.2  | 226.3  | 175.3  | 186.9  | 466.6  | 516.0  | 395.2  | 155.0  |
| 85°   | 42.9   | 45.8   | 107.9  | 153.2  | 152.6  | 88.3   | 91.1   | 166.6  | 162.5  | 127.7  | 51.7   |
| 87.5° | 7.0    | 8.7    | 12.8   | 59.8   | 47.6   | 23.2   | 31.4   | 32.5   | 33.6   | 29.0   | 11.6   |
| 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°    | 1319.2 | 1319.2 | 1319.2 | 1319.2 | 1319.2 | 1319.2 | 1319.2 | 1319.2 | 1319.2 | 1319.2 | 1319.2 |
| 2.5°  | 1333.7 | 1304.6 | 1243.7 | 1187.5 | 1143.3 | 1101.0 | 1077.2 | 1056.9 | 1045.3 | 1042.9 | 1042.9 |
| 5°    | 1369.7 | 1309.8 | 1199.0 | 1105.6 | 1044.7 | 999.4  | 975.6  | 960.5  | 952.9  | 948.3  | 947.7  |
| 7.5°  | 1421.4 | 1333.7 | 1175.8 | 1069.6 | 1005.7 | 973.2  | 961.1  | 958.8  | 958.2  | 958.8  | 960.5  |
| 10°   | 1492.7 | 1372.6 | 1173.5 | 1060.9 | 1007.5 | 989.5  | 988.9  | 989.5  | 991.9  | 992.4  | 993.0  |
| 12.5° | 1569.9 | 1412.7 | 1182.7 | 1068.5 | 1029.6 | 1019.7 | 1017.9 | 1017.4 | 1019.2 | 1020.3 | 1020.9 |
| 15°   | 1654.0 | 1465.4 | 1198.4 | 1084.8 | 1053.9 | 1043.6 | 1041.8 | 1038.3 | 1037.7 | 1037.1 | 1036.6 |
| 17.5° | 1740.6 | 1517.6 | 1215.9 | 1102.1 | 1069.6 | 1055.1 | 1048.7 | 1040.6 | 1034.2 | 1032.5 | 1034.2 |
| 20°   | 1828.2 | 1569.3 | 1228.1 | 1110.8 | 1070.8 | 1050.4 | 1037.7 | 1023.8 | 1012.7 | 1006.3 | 1008.7 |
| 22.5° | 1921.6 | 1623.3 | 1235.6 | 1108.5 | 1060.4 | 1032.5 | 1009.2 | 993.0  | 976.2  | 965.1  | 965.8  |
| 25°   | 2012.7 | 1670.3 | 1235.0 | 1096.3 | 1040.1 | 1004.6 | 975.0  | 954.2  | 930.9  | 919.3  | 919.3  |
| 27.5° | 2100.3 | 1712.7 | 1220.5 | 1074.8 | 1011.0 | 971.5  | 936.1  | 911.2  | 888.6  | 877.5  | 876.9  |
| 30°   | 2190.9 | 1748.0 | 1197.9 | 1043.6 | 976.7  | 933.3  | 894.3  | 872.9  | 852.6  | 842.1  | 841.5  |
| 32.5° | 2280.8 | 1780.5 | 1165.9 | 1004.6 | 937.3  | 895.5  | 857.2  | 837.4  | 825.3  | 825.3  | 825.8  |
| 35°   | 2376.1 | 1803.2 | 1123.6 | 959.4  | 895.5  | 855.5  | 825.3  | 813.6  | 812.5  | 805.5  | 803.8  |
| 37.5° | 2476.4 | 1817.7 | 1071.9 | 913.0  | 854.3  | 816.6  | 807.3  | 793.3  | 781.8  | 766.7  | 764.3  |
| 40°   | 2582.1 | 1832.2 | 1009.8 | 864.8  | 810.8  | 789.9  | 785.9  | 767.2  | 734.2  | 697.0  | 691.8  |
| 42.5° | 2710.3 | 1842.1 | 945.5  | 816.6  | 765.0  | 758.0  | 763.7  | 731.8  | 679.1  | 651.2  | 651.8  |
| 45°   | 2858.9 | 1858.3 | 886.2  | 769.0  | 717.9  | 717.9  | 742.3  | 700.5  | 657.0  | 639.6  | 642.5  |
| 47.5° | 3051.6 | 1896.0 | 831.1  | 716.8  | 674.3  | 686.0  | 694.7  | 662.8  | 638.4  | 616.9  | 616.3  |
| 50°   | 3330.1 | 1986.7 | 774.2  | 663.9  | 641.3  | 664.5  | 652.3  | 633.8  | 605.4  | 587.9  | 586.2  |
| 52.5° | 3676.1 | 2040.0 | 723.8  | 616.3  | 612.8  | 636.1  | 618.7  | 601.3  | 579.7  | 556.6  | 552.0  |
| 55°   | 3911.7 | 2049.9 | 681.3  | 581.5  | 593.7  | 591.4  | 585.0  | 569.4  | 557.7  | 527.0  | 527.6  |
| 57.5° | 4175.1 | 2069.6 | 646.6  | 560.7  | 581.5  | 556.0  | 553.7  | 540.3  | 525.2  | 504.3  | 497.3  |
| 60°   | 4490.3 | 2100.3 | 616.3  | 552.5  | 571.1  | 532.8  | 521.2  | 516.0  | 500.8  | 490.5  | 493.3  |
| 62.5° | 4833.9 | 2128.2 | 585.6  | 553.7  | 558.9  | 510.1  | 492.7  | 491.0  | 481.7  | 478.3  | 478.3  |
| 65°   | 5068.3 | 2052.2 | 547.2  | 552.5  | 539.8  | 487.0  | 464.8  | 464.3  | 456.7  | 455.6  | 455.0  |
| 67.5° | 4986.5 | 1811.4 | 495.6  | 536.3  | 520.0  | 463.7  | 439.3  | 437.1  | 427.1  | 427.7  | 427.7  |
| 70°   | 4576.8 | 1467.8 | 424.2  | 496.2  | 495.6  | 442.8  | 412.7  | 405.1  | 391.8  | 394.1  | 396.4  |
| 72.5° | 3808.4 | 1087.6 | 328.5  | 429.5  | 456.7  | 423.6  | 381.9  | 369.7  | 352.9  | 355.2  | 354.6  |
| 75°   | 2750.4 | 739.4  | 239.1  | 326.8  | 397.6  | 401.1  | 351.7  | 330.8  | 310.5  | 314.0  | 315.2  |
| 77.5° | 1407.4 | 419.0  | 175.9  | 225.2  | 312.2  | 364.5  | 324.4  | 296.5  | 291.9  | 324.4  | 319.8  |
| 80°   | 459.1  | 210.1  | 121.9  | 157.8  | 204.9  | 298.3  | 284.3  | 252.5  | 251.3  | 258.8  | 222.3  |
| 82.5° | 136.9  | 88.8   | 78.3   | 103.9  | 113.2  | 228.7  | 245.5  | 191.0  | 164.2  | 172.9  | 178.8  |
| 85°   | 47.0   | 42.9   | 44.7   | 51.7   | 54.0   | 134.1  | 171.8  | 126.5  | 119.5  | 131.7  | 130.0  |
| 87.5° | 11.1   | 15.1   | 12.8   | 11.6   | 11.6   | 32.5   | 66.7   | 52.8   | 73.1   | 48.8   | 47.0   |
| 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)