

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: P960266

Luminaire Tested: **NVN-SB1C-722-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P960266  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB1C-722-U-T3R  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6511.8 lumens  
Efficiency: N/A  
Efficacy: 119.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

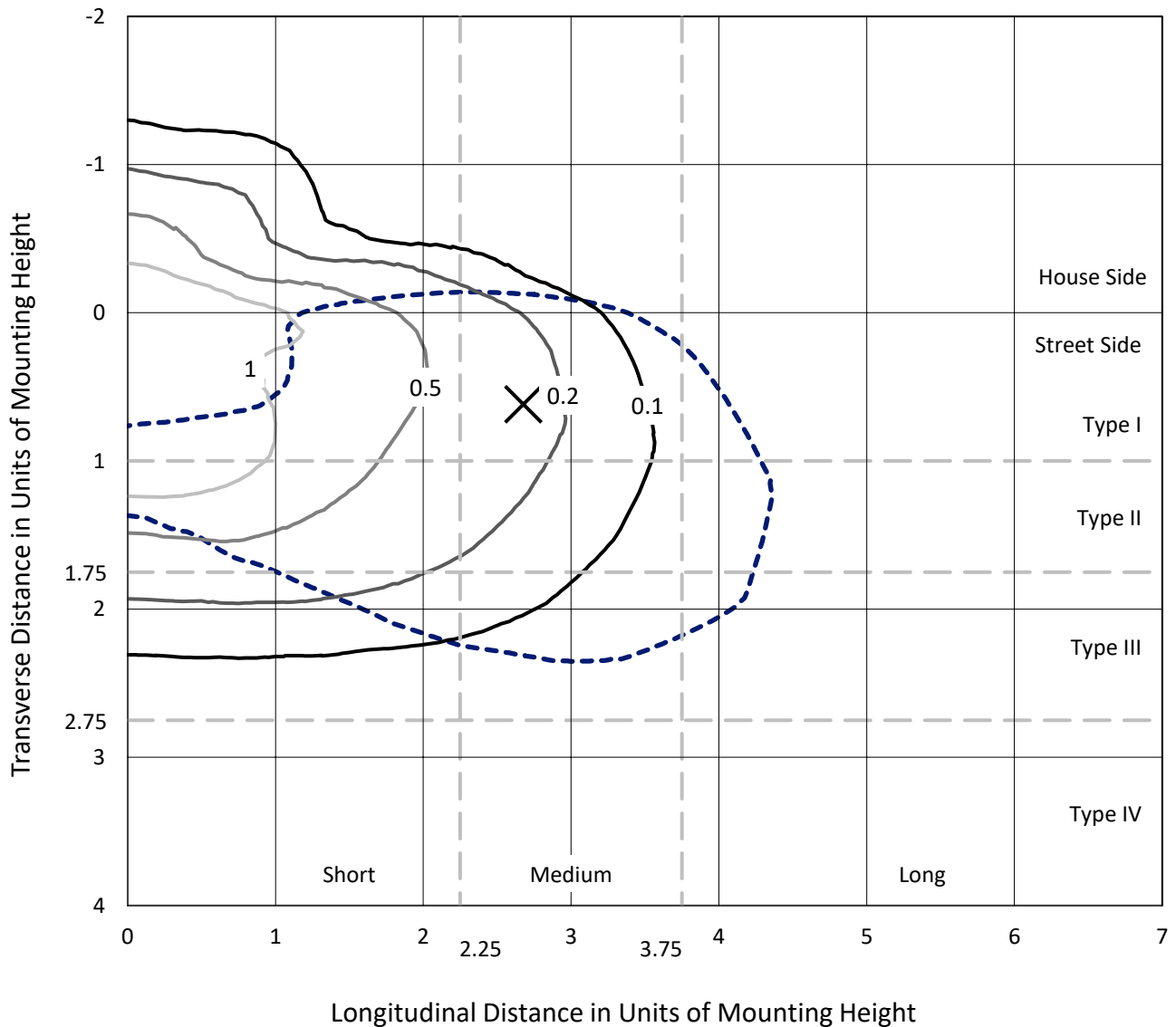
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P960266  
 CATALOG NUMBER: NVN-SB1C-722-U-T3R

### Iso-Footcandle Lines of Horizontal Illumination

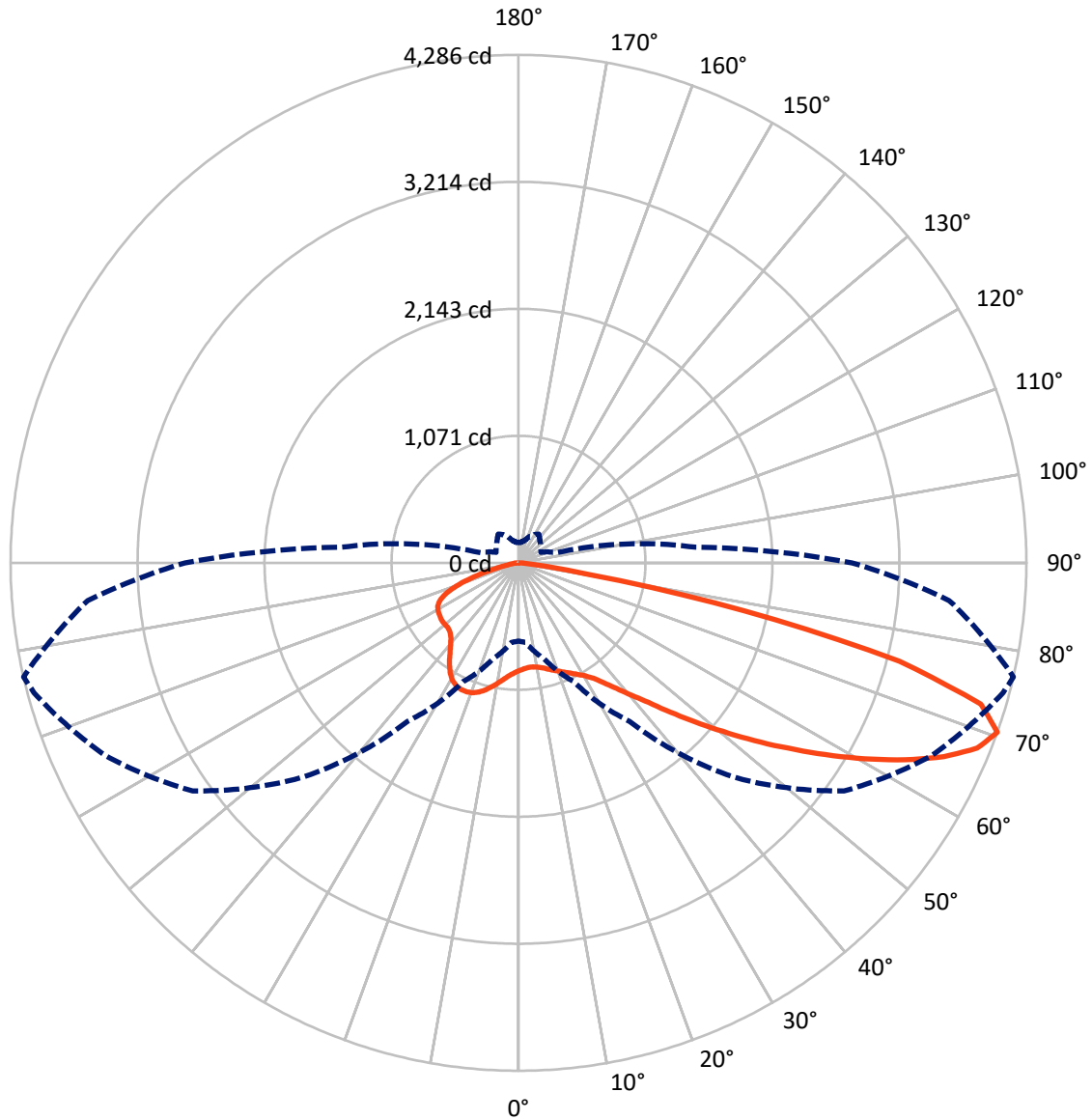
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type III - Medium - N/A

REPORT NUMBER: P960266  
CATALOG NUMBER: NVN-SB1C-722-U-T3R

### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P960266  
 CATALOG NUMBER: NVN-SB1C-722-U-T3R

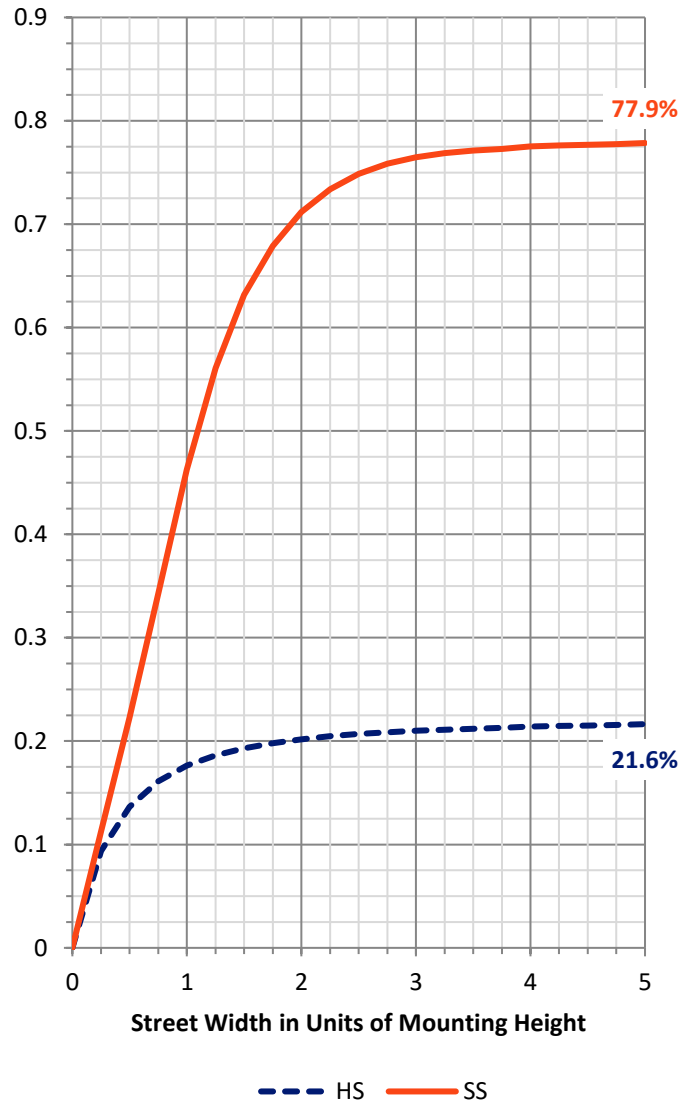
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1426.0   | 0.0    | 1426.0 |
|                    | % Fixture | 21.9     | 0.0    | 21.9   |
| <b>Street Side</b> | Lumens    | 5085.8   | 0.0    | 5085.8 |
|                    | % Fixture | 78.1     | 0.0    | 78.1   |
| <b>Total</b>       | Lumens    | 6511.8   | 0.0    | 6511.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 86.6   | 1.3       |
| 10°-20°   | 250.1  | 3.8       |
| 20°-30°   | 427.6  | 6.6       |
| 30°-40°   | 687.7  | 10.6      |
| 40°-50°   | 1073.6 | 16.5      |
| 50°-60°   | 1434.1 | 22.0      |
| 60°-70°   | 1528.6 | 23.5      |
| 70°-80°   | 941.0  | 14.5      |
| 80°-90°   | 82.5   | 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°    | 6511.8 | 100.0     |
| 0°-180°   | 6511.8 | 100.0     |

**Coefficient of Utilization**

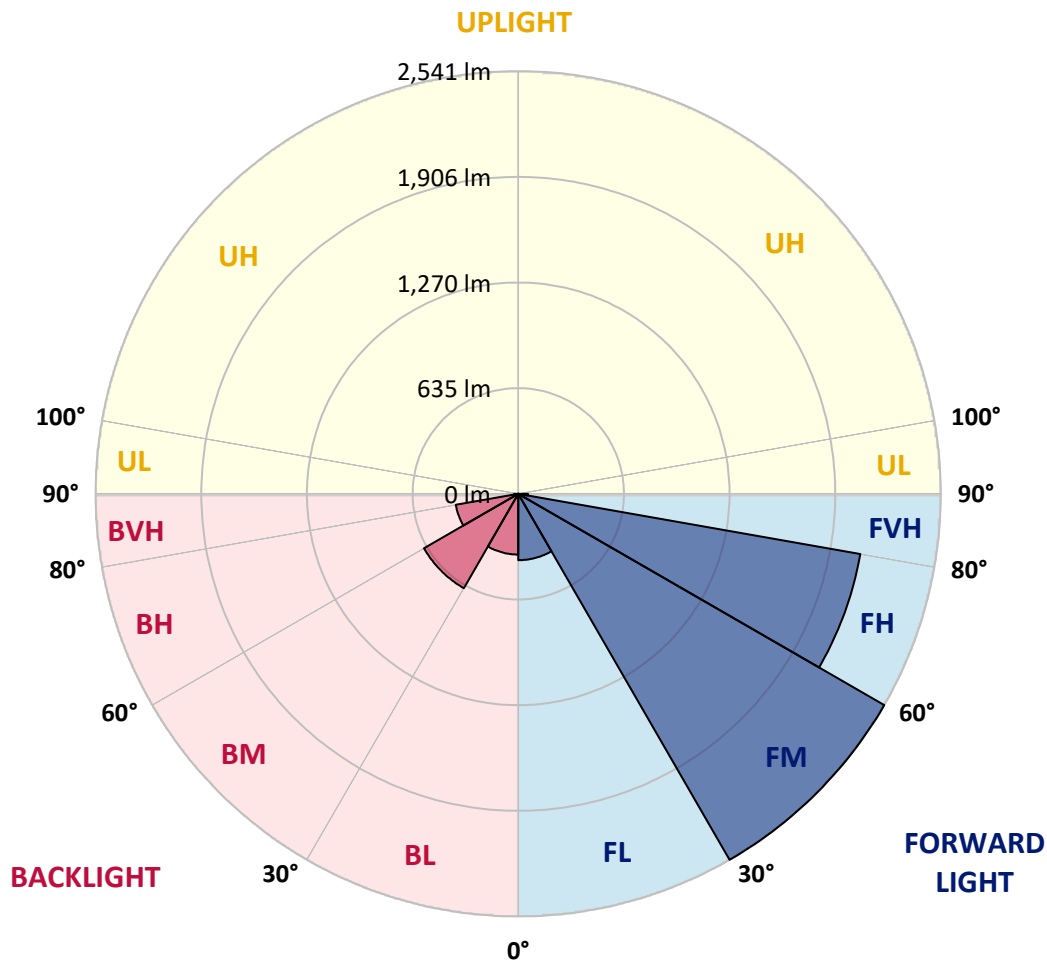


REPORT NUMBER: P960266  
 CATALOG NUMBER: NVN-SB1C-722-U-T3R

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 399.0  | 6.1       |                         |      |         |
| FM (30°-60°)   | 2540.8 | 39.0      |                         |      |         |
| FH (60°-80°)   | 2088.5 | 32.1      |                         |      | G2/5000 |
| FVH (80°-90°)  | 57.7   | 0.9       |                         |      | G1/100  |
| BL (0°-30°)    | 365.4  | 5.6       | B1/500                  |      |         |
| BM (30°-60°)   | 654.7  | 10.1      | B1/1000                 |      |         |
| BH (60°-80°)   | 381.1  | 5.9       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 24.8   | 0.4       |                         |      | 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 III Medium



REPORT NUMBER: P960266  
 CATALOG NUMBER: NVN-SB1C-722-U-T3R

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 77°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 908.5  | 908.5  | 908.5  | 908.5  | 908.5  | 908.5  | 908.5  | 908.5  | 908.5  | 908.5  | 908.5  |
| 2.5°  | 837.4  | 837.1  | 841.4  | 842.8  | 850.7  | 856.4  | 867.2  | 878.4  | 893.1  | 894.8  | 903.7  |
| 5°    | 789.0  | 789.0  | 794.1  | 799.4  | 809.7  | 821.1  | 837.4  | 857.1  | 882.4  | 886.4  | 908.8  |
| 7.5°  | 748.0  | 750.7  | 755.0  | 765.4  | 777.4  | 793.8  | 818.8  | 846.8  | 880.1  | 886.4  | 922.5  |
| 10°   | 715.0  | 718.0  | 723.3  | 731.7  | 749.7  | 772.4  | 805.0  | 841.1  | 885.8  | 895.7  | 942.5  |
| 12.5° | 704.7  | 707.7  | 710.7  | 717.0  | 733.7  | 760.3  | 799.4  | 843.8  | 899.4  | 909.5  | 969.9  |
| 15°   | 728.7  | 732.4  | 730.0  | 728.4  | 737.1  | 761.4  | 802.1  | 853.4  | 916.5  | 930.8  | 1003.5 |
| 17.5° | 784.0  | 785.4  | 780.0  | 764.3  | 763.0  | 776.0  | 814.8  | 866.7  | 937.8  | 953.5  | 1037.5 |
| 20°   | 873.4  | 871.1  | 860.1  | 829.1  | 811.4  | 808.7  | 836.4  | 886.8  | 959.8  | 976.5  | 1074.2 |
| 22.5° | 994.9  | 992.2  | 970.2  | 921.2  | 881.8  | 855.8  | 867.8  | 912.8  | 984.5  | 1003.2 | 1109.9 |
| 25°   | 1146.3 | 1142.6 | 1110.2 | 1043.6 | 982.5  | 918.1  | 910.5  | 947.1  | 1014.9 | 1032.2 | 1147.3 |
| 27.5° | 1323.0 | 1320.0 | 1284.9 | 1196.9 | 1108.8 | 1003.5 | 963.5  | 987.5  | 1046.5 | 1066.2 | 1189.3 |
| 30°   | 1513.1 | 1521.8 | 1459.7 | 1365.0 | 1253.7 | 1114.9 | 1034.8 | 1037.2 | 1087.5 | 1105.3 | 1240.2 |
| 32.5° | 1736.6 | 1751.5 | 1676.8 | 1556.8 | 1404.7 | 1235.9 | 1124.9 | 1106.6 | 1147.3 | 1161.9 | 1304.6 |
| 35°   | 1958.0 | 1975.0 | 1913.0 | 1780.2 | 1605.1 | 1378.7 | 1218.9 | 1186.2 | 1226.6 | 1242.6 | 1390.0 |
| 37.5° | 2149.4 | 2172.1 | 2140.1 | 2024.7 | 1819.6 | 1550.8 | 1341.7 | 1280.0 | 1324.3 | 1344.4 | 1504.8 |
| 40°   | 2300.5 | 2335.2 | 2332.8 | 2260.8 | 2072.3 | 1759.5 | 1497.4 | 1395.7 | 1445.8 | 1467.4 | 1643.8 |
| 42.5° | 2423.2 | 2453.2 | 2479.3 | 2475.6 | 2336.2 | 1996.7 | 1680.5 | 1546.1 | 1584.1 | 1609.1 | 1800.2 |
| 45°   | 2508.0 | 2540.0 | 2596.0 | 2656.4 | 2590.0 | 2250.5 | 1890.3 | 1724.6 | 1759.2 | 1796.9 | 1986.7 |
| 47.5° | 2583.6 | 2620.0 | 2692.7 | 2788.4 | 2805.4 | 2505.3 | 2120.1 | 1932.3 | 1964.0 | 2003.1 | 2173.7 |
| 50°   | 2590.3 | 2621.6 | 2734.4 | 2870.1 | 2958.5 | 2750.1 | 2366.8 | 2165.4 | 2195.1 | 2236.8 | 2374.2 |
| 52.5° | 2429.2 | 2478.6 | 2675.4 | 2867.7 | 3028.9 | 2954.9 | 2612.0 | 2407.9 | 2441.2 | 2491.3 | 2581.7 |
| 55°   | 1885.6 | 1958.0 | 2502.2 | 2778.4 | 3003.9 | 3087.2 | 2845.1 | 2665.7 | 2708.4 | 2760.7 | 2790.5 |
| 57.5° | 1624.1 | 1655.9 | 1986.3 | 2615.7 | 2889.8 | 3121.5 | 3041.9 | 2926.2 | 2994.8 | 3052.2 | 3011.1 |
| 60°   | 1459.7 | 1486.0 | 1681.5 | 2362.5 | 2739.7 | 3067.2 | 3193.9 | 3168.9 | 3287.7 | 3356.1 | 3237.0 |
| 62.5° | 1283.6 | 1308.6 | 1486.5 | 1972.6 | 2547.6 | 2976.8 | 3290.0 | 3393.1 | 3587.8 | 3662.5 | 3449.7 |
| 65°   | 1108.8 | 1130.3 | 1300.6 | 1657.5 | 2303.5 | 2886.5 | 3339.7 | 3586.8 | 3865.6 | 3943.0 | 3626.4 |
| 67.5° | 914.1  | 931.8  | 1092.9 | 1398.4 | 2006.6 | 2762.7 | 3364.4 | 3739.2 | 4107.4 | 4173.8 | 3713.9 |
| 70°   | 659.7  | 673.3  | 839.8  | 1105.9 | 1634.2 | 2550.0 | 3354.3 | 3847.2 | 4232.8 | 4285.8 | 3647.9 |
| 72.5° | 311.8  | 324.2  | 519.6  | 718.0  | 1154.3 | 2135.8 | 3151.9 | 3761.5 | 4105.4 | 4079.1 | 3243.6 |
| 75°   | 166.5  | 177.1  | 298.5  | 393.9  | 609.7  | 1464.1 | 2579.3 | 3240.3 | 3447.4 | 3319.4 | 2397.2 |
| 77.5° | 112.7  | 121.1  | 184.8  | 236.5  | 278.5  | 695.1  | 1657.8 | 2243.4 | 2158.4 | 1947.0 | 1200.6 |
| 80°   | 89.4   | 98.1   | 151.4  | 160.1  | 134.7  | 251.1  | 685.0  | 1038.5 | 746.0  | 596.7  | 341.5  |
| 82.5° | 68.7   | 78.4   | 127.4  | 116.0  | 73.4   | 103.0  | 199.5  | 328.5  | 191.1  | 145.4  | 82.7   |
| 85°   | 42.0   | 52.4   | 100.0  | 74.0   | 41.3   | 47.0   | 67.6   | 91.4   | 58.3   | 48.7   | 29.7   |
| 87.5° | 21.3   | 30.0   | 50.7   | 27.1   | 18.7   | 11.0   | 18.0   | 18.0   | 15.4   | 13.3   | 7.7    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

REPORT NUMBER: P960266  
 CATALOG NUMBER: NVN-SB1C-722-U-T3R

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 908.5  | 908.5  | 908.5  | 908.5  | 908.5  | 908.5  | 908.5  | 908.5  | 908.5  | 908.5  | 908.5  |
| 2.5°  | 911.8  | 918.5  | 929.8  | 940.4  | 948.8  | 956.8  | 964.8  | 969.1  | 970.5  | 975.8  | 978.9  |
| 5°    | 922.5  | 934.8  | 956.8  | 977.5  | 990.5  | 998.6  | 1004.2 | 1007.5 | 1008.2 | 1009.8 | 1012.5 |
| 7.5°  | 942.2  | 961.9  | 992.5  | 1013.2 | 1022.8 | 1022.2 | 1019.9 | 1011.5 | 1008.2 | 1005.2 | 1005.8 |
| 10°   | 969.9  | 995.8  | 1033.5 | 1047.9 | 1041.8 | 1025.8 | 1005.2 | 980.8  | 969.4  | 958.5  | 955.2  |
| 12.5° | 1004.2 | 1037.2 | 1074.2 | 1073.6 | 1043.9 | 1002.9 | 954.8  | 917.5  | 893.8  | 876.8  | 872.8  |
| 15°   | 1045.9 | 1083.8 | 1112.2 | 1089.6 | 1024.5 | 950.8  | 880.5  | 831.8  | 810.4  | 791.7  | 789.8  |
| 17.5° | 1088.9 | 1129.6 | 1142.6 | 1084.6 | 975.8  | 873.8  | 794.1  | 755.7  | 734.7  | 724.7  | 727.7  |
| 20°   | 1130.9 | 1171.3 | 1160.6 | 1055.9 | 901.8  | 786.4  | 715.3  | 694.3  | 690.0  | 692.4  | 691.4  |
| 22.5° | 1175.3 | 1211.2 | 1164.3 | 1000.5 | 807.4  | 697.0  | 658.0  | 658.7  | 668.3  | 675.4  | 677.0  |
| 25°   | 1220.6 | 1245.0 | 1154.6 | 920.4  | 706.0  | 631.3  | 621.7  | 632.3  | 651.3  | 665.0  | 668.7  |
| 27.5° | 1264.3 | 1275.0 | 1133.5 | 821.4  | 619.0  | 584.2  | 586.0  | 607.9  | 636.6  | 655.7  | 660.3  |
| 30°   | 1313.6 | 1301.6 | 1093.3 | 710.0  | 558.6  | 544.0  | 557.9  | 583.6  | 612.3  | 629.3  | 633.3  |
| 32.5° | 1369.4 | 1324.7 | 1029.2 | 607.0  | 515.9  | 511.6  | 534.6  | 551.2  | 564.0  | 569.0  | 571.6  |
| 35°   | 1438.7 | 1357.0 | 947.1  | 534.6  | 477.5  | 487.9  | 509.9  | 501.6  | 496.6  | 493.9  | 496.6  |
| 37.5° | 1528.8 | 1400.7 | 851.1  | 487.6  | 446.6  | 470.9  | 479.9  | 453.9  | 434.2  | 424.6  | 426.9  |
| 40°   | 1637.1 | 1464.7 | 758.7  | 451.2  | 426.9  | 456.2  | 440.5  | 409.2  | 384.2  | 370.5  | 371.6  |
| 42.5° | 1757.6 | 1531.8 | 681.0  | 423.8  | 415.8  | 444.2  | 411.5  | 374.2  | 333.8  | 329.5  | 333.8  |
| 45°   | 1884.0 | 1600.8 | 628.0  | 402.8  | 410.5  | 433.9  | 394.8  | 334.5  | 305.9  | 323.5  | 332.8  |
| 47.5° | 2010.3 | 1664.2 | 595.9  | 387.2  | 407.8  | 422.2  | 380.2  | 312.5  | 292.1  | 317.9  | 329.8  |
| 50°   | 2151.1 | 1720.9 | 581.6  | 375.9  | 404.9  | 417.6  | 358.1  | 306.8  | 277.8  | 294.8  | 307.5  |
| 52.5° | 2290.9 | 1764.8 | 570.9  | 364.5  | 400.6  | 413.9  | 347.5  | 300.1  | 260.5  | 261.5  | 268.4  |
| 55°   | 2430.3 | 1793.5 | 559.2  | 349.5  | 390.8  | 405.9  | 346.6  | 292.8  | 247.4  | 242.8  | 246.1  |
| 57.5° | 2579.0 | 1809.9 | 545.0  | 332.8  | 374.2  | 385.5  | 345.5  | 287.1  | 243.4  | 235.7  | 236.8  |
| 60°   | 2730.4 | 1833.9 | 526.2  | 312.5  | 351.9  | 361.2  | 343.2  | 285.2  | 241.1  | 228.2  | 229.1  |
| 62.5° | 2866.1 | 1842.2 | 503.9  | 293.2  | 323.2  | 337.1  | 338.1  | 283.5  | 234.8  | 212.5  | 212.5  |
| 65°   | 2955.2 | 1806.3 | 464.9  | 271.1  | 292.1  | 312.5  | 328.5  | 277.8  | 223.4  | 201.1  | 201.1  |
| 67.5° | 2951.5 | 1703.6 | 403.8  | 242.8  | 262.1  | 285.2  | 314.5  | 268.1  | 209.8  | 187.1  | 188.1  |
| 70°   | 2814.1 | 1500.8 | 326.5  | 209.8  | 229.1  | 255.8  | 296.5  | 253.8  | 193.4  | 171.8  | 173.7  |
| 72.5° | 2413.6 | 1174.5 | 237.1  | 171.1  | 190.8  | 225.4  | 273.2  | 236.5  | 176.7  | 158.1  | 157.0  |
| 75°   | 1724.3 | 743.3  | 160.7  | 131.4  | 148.4  | 191.1  | 244.2  | 216.1  | 161.4  | 158.8  | 149.8  |
| 77.5° | 880.8  | 355.2  | 106.4  | 96.0   | 103.4  | 150.8  | 205.1  | 193.1  | 163.8  | 131.1  | 116.7  |
| 80°   | 286.5  | 131.1  | 67.0   | 65.4   | 68.7   | 100.3  | 158.8  | 158.4  | 124.0  | 89.1   | 78.7   |
| 82.5° | 91.4   | 56.4   | 43.7   | 42.0   | 40.4   | 63.0   | 110.7  | 125.4  | 83.7   | 56.4   | 56.1   |
| 85°   | 36.4   | 33.7   | 25.7   | 23.7   | 17.0   | 29.7   | 58.0   | 83.3   | 62.3   | 40.7   | 41.7   |
| 87.5° | 13.3   | 13.3   | 7.0    | 5.0    | 3.7    | 10.0   | 15.7   | 25.0   | 35.7   | 21.0   | 20.7   |
| 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)