

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: P959361

Luminaire Tested: **NVN-SB1A-750-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P959361  
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-SB1A-750-U-T2R  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

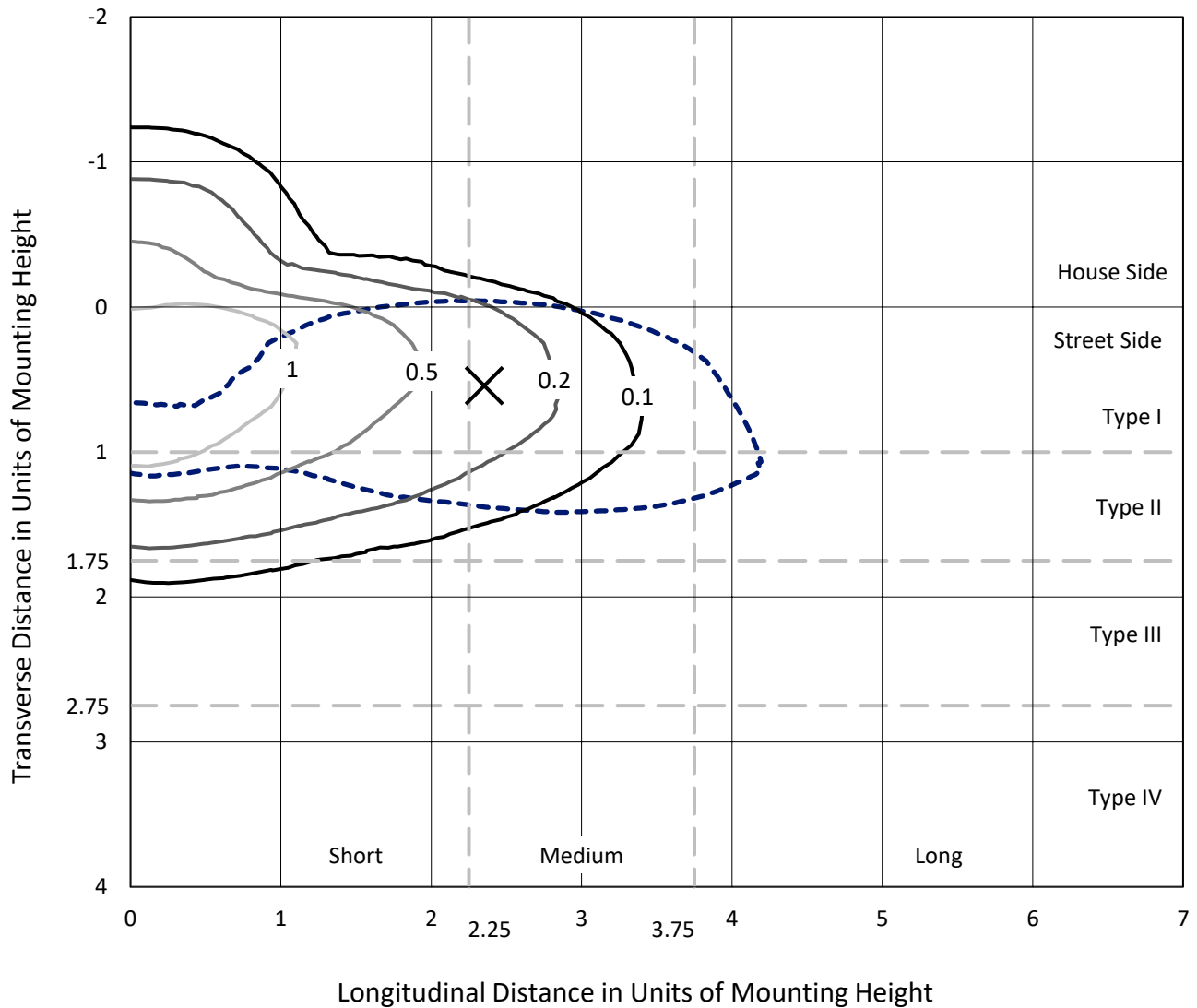
Lumens per Lamp: N/A  
Luminaire Lumens: 4955.9 lumens  
Efficiency: N/A  
Efficacy: 160.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): 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: P959361  
 CATALOG NUMBER: NVN-SB1A-750-U-T2R

### Iso-Footcandle Lines of Horizontal Illumination

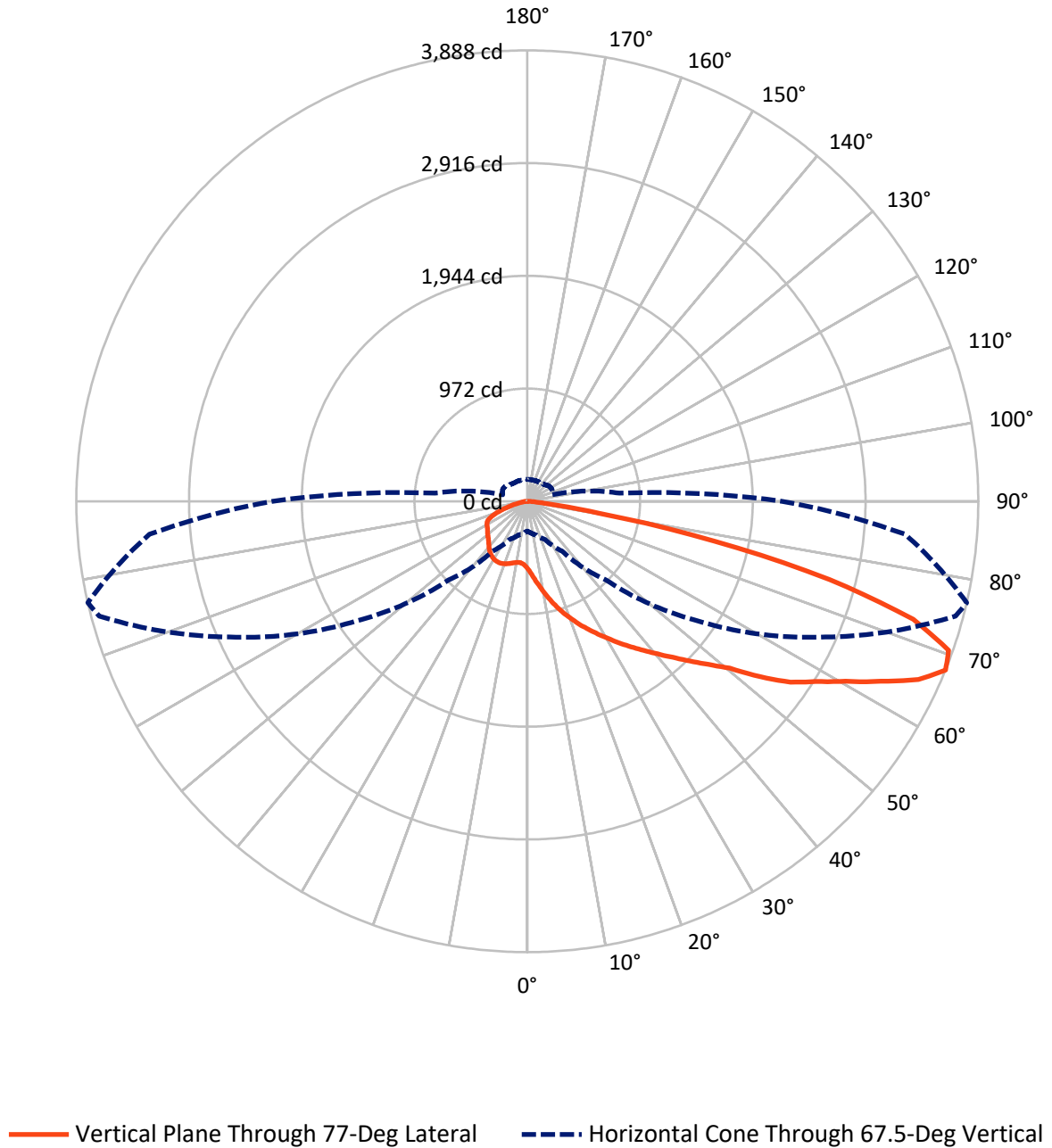
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type II - Medium - N/A

REPORT NUMBER: P959361  
CATALOG NUMBER: NVN-SB1A-750-U-T2R

### Luminous Intensity Polar Plot



REPORT NUMBER: P959361  
 CATALOG NUMBER: NVN-SB1A-750-U-T2R

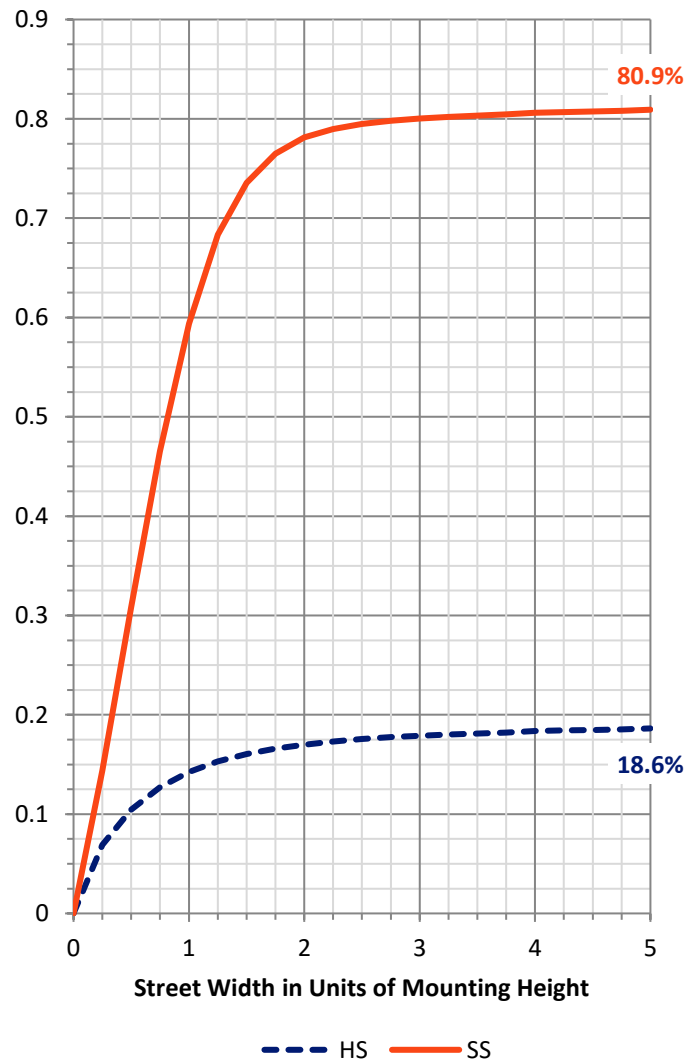
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 937.4    | 0.0    | 937.4  |
|                    | % Fixture | 18.9     | 0.0    | 18.9   |
| <b>Street Side</b> | Lumens    | 4018.4   | 0.0    | 4018.4 |
|                    | % Fixture | 81.1     | 0.0    | 81.1   |
| <b>Total</b>       | Lumens    | 4955.9   | 0.0    | 4955.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 62.3   | 1.3       |
| 10°-20°   | 223.9  | 4.5       |
| 20°-30°   | 422.8  | 8.5       |
| 30°-40°   | 681.1  | 13.7      |
| 40°-50°   | 931.6  | 18.8      |
| 50°-60°   | 1050.8 | 21.2      |
| 60°-70°   | 980.8  | 19.8      |
| 70°-80°   | 537.7  | 10.8      |
| 80°-90°   | 64.9   | 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°    | 4955.9 | 100.0     |
| 0°-180°   | 4955.9 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P959361

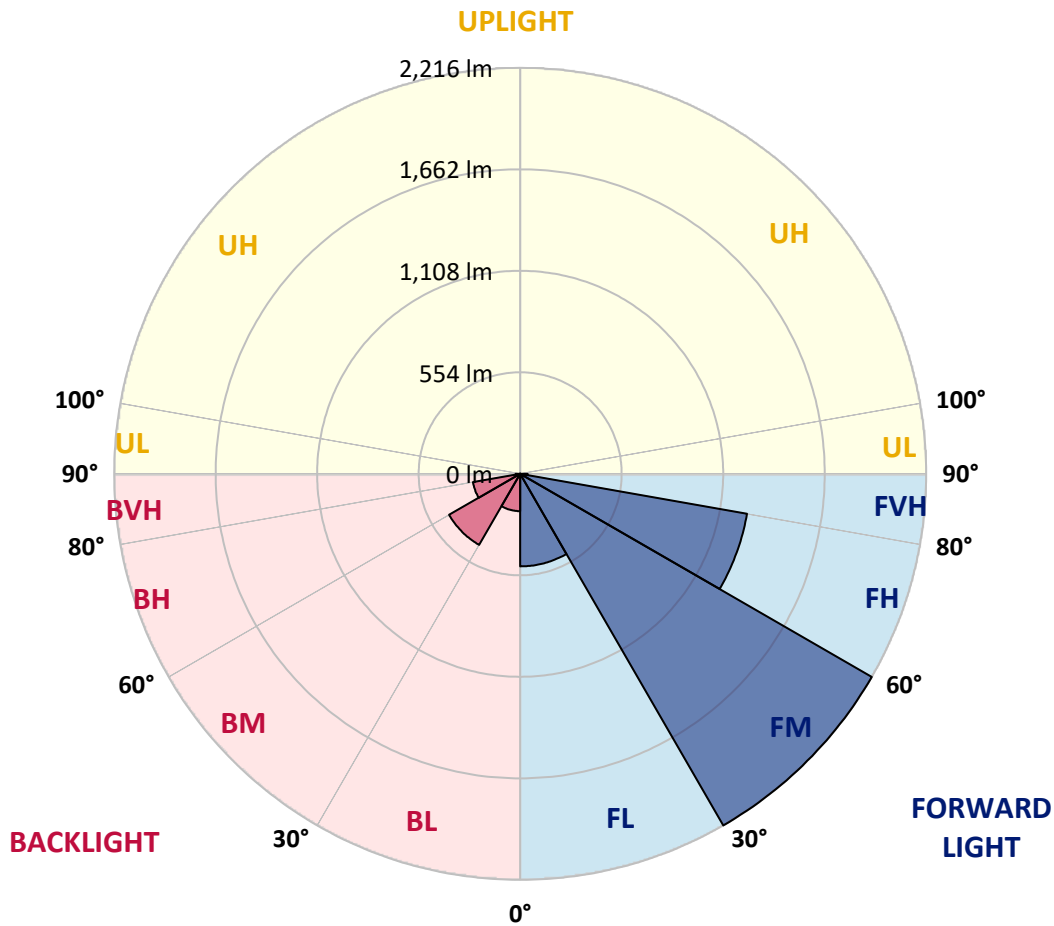
CATALOG NUMBER: NVN-SB1A-750-U-T2R

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 505.2  | 10.2      |                         |      |         |
| FM (30°-60°)   | 2215.7 | 44.7      |                         |      |         |
| FH (60°-80°)   | 1257.0 | 25.4      |                         |      | G1/1800 |
| FVH (80°-90°)  | 40.6   | 0.8       |                         |      | G1/100  |
| BL (0°-30°)    | 203.8  | 4.1       | B1/500                  |      |         |
| BM (30°-60°)   | 447.8  | 9.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 261.5  | 5.3       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 24.3   | 0.5       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type II Medium



REPORT NUMBER: P959361  
 CATALOG NUMBER: NVN-SB1A-750-U-T2R

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 77°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 581.5  | 581.5  | 581.5  | 581.5  | 581.5  | 581.5  | 581.5  | 581.5  | 581.5  | 581.5  | 581.5  |
| 2.5°  | 728.1  | 733.2  | 726.8  | 726.8  | 705.3  | 694.0  | 672.5  | 656.2  | 626.8  | 621.7  | 602.2  |
| 5°    | 860.6  | 866.9  | 858.0  | 854.1  | 828.8  | 805.5  | 769.5  | 733.9  | 681.5  | 676.1  | 630.4  |
| 7.5°  | 963.2  | 971.4  | 963.4  | 959.3  | 936.8  | 910.7  | 868.5  | 818.9  | 745.0  | 734.4  | 668.2  |
| 10°   | 1046.8 | 1048.1 | 1045.5 | 1047.0 | 1029.4 | 1007.9 | 964.7  | 906.9  | 814.6  | 800.2  | 714.0  |
| 12.5° | 1094.2 | 1100.0 | 1105.2 | 1114.4 | 1111.3 | 1098.0 | 1059.1 | 990.0  | 888.2  | 869.8  | 763.8  |
| 15°   | 1116.4 | 1126.7 | 1138.2 | 1159.4 | 1176.5 | 1179.9 | 1150.2 | 1079.3 | 963.2  | 941.0  | 814.3  |
| 17.5° | 1124.3 | 1134.1 | 1152.2 | 1183.0 | 1219.8 | 1244.6 | 1231.2 | 1166.0 | 1037.3 | 1011.8 | 867.3  |
| 20°   | 1164.5 | 1167.3 | 1178.3 | 1207.4 | 1247.4 | 1288.5 | 1298.6 | 1249.4 | 1110.8 | 1081.9 | 922.0  |
| 22.5° | 1250.4 | 1244.9 | 1247.9 | 1261.2 | 1289.9 | 1329.7 | 1352.5 | 1323.1 | 1186.2 | 1153.0 | 977.2  |
| 25°   | 1392.5 | 1376.1 | 1359.7 | 1344.3 | 1358.9 | 1381.4 | 1407.2 | 1396.8 | 1265.3 | 1223.0 | 1033.0 |
| 27.5° | 1571.7 | 1551.8 | 1515.8 | 1465.3 | 1447.7 | 1455.6 | 1467.1 | 1465.0 | 1338.4 | 1295.7 | 1090.6 |
| 30°   | 1748.2 | 1725.0 | 1682.0 | 1609.1 | 1562.5 | 1541.6 | 1532.9 | 1526.9 | 1418.0 | 1372.5 | 1148.6 |
| 32.5° | 1889.2 | 1870.8 | 1828.6 | 1747.0 | 1679.5 | 1643.7 | 1614.7 | 1593.8 | 1501.1 | 1455.6 | 1210.0 |
| 35°   | 2012.5 | 1995.4 | 1947.1 | 1858.0 | 1784.6 | 1746.5 | 1708.6 | 1663.9 | 1587.6 | 1541.6 | 1276.0 |
| 37.5° | 2125.1 | 2107.9 | 2041.7 | 1949.1 | 1875.1 | 1848.8 | 1815.1 | 1739.0 | 1674.3 | 1630.9 | 1345.8 |
| 40°   | 2196.2 | 2192.4 | 2130.5 | 2025.6 | 1948.8 | 1935.8 | 1924.5 | 1826.3 | 1770.5 | 1730.1 | 1422.6 |
| 42.5° | 2214.4 | 2222.8 | 2173.7 | 2087.5 | 2014.3 | 2003.9 | 2030.2 | 1925.1 | 1878.5 | 1839.9 | 1509.6 |
| 45°   | 2170.6 | 2194.9 | 2162.8 | 2104.1 | 2060.9 | 2055.2 | 2123.8 | 2033.0 | 1997.9 | 1962.7 | 1614.5 |
| 47.5° | 2059.8 | 2101.0 | 2087.7 | 2079.5 | 2073.4 | 2097.8 | 2206.2 | 2147.6 | 2133.2 | 2102.6 | 1734.2 |
| 50°   | 1836.3 | 1914.3 | 1937.6 | 1989.2 | 2048.6 | 2130.8 | 2281.1 | 2272.7 | 2291.4 | 2260.4 | 1880.1 |
| 52.5° | 1449.8 | 1557.2 | 1692.3 | 1821.7 | 1972.4 | 2119.7 | 2363.5 | 2452.3 | 2531.0 | 2514.2 | 2111.8 |
| 55°   | 1196.7 | 1245.1 | 1348.9 | 1586.3 | 1824.5 | 2073.4 | 2400.7 | 2597.4 | 2769.0 | 2753.9 | 2287.5 |
| 57.5° | 1002.3 | 1045.5 | 1109.5 | 1307.8 | 1600.9 | 1968.3 | 2423.6 | 2685.8 | 2931.9 | 2930.4 | 2461.0 |
| 60°   | 793.8  | 839.6  | 905.1  | 1045.5 | 1339.8 | 1786.7 | 2418.5 | 2786.7 | 3139.9 | 3152.7 | 2672.6 |
| 62.5° | 558.4  | 608.8  | 681.5  | 812.5  | 1072.9 | 1551.3 | 2314.1 | 2859.5 | 3384.8 | 3419.5 | 2927.1 |
| 65°   | 367.1  | 400.4  | 455.1  | 568.2  | 799.4  | 1248.7 | 2114.9 | 2869.0 | 3646.7 | 3705.6 | 3166.0 |
| 67.5° | 257.4  | 270.2  | 302.4  | 363.8  | 527.0  | 957.6  | 1797.4 | 2771.1 | 3821.4 | 3887.7 | 3269.6 |
| 70°   | 200.8  | 207.3  | 223.6  | 248.2  | 331.1  | 643.9  | 1377.3 | 2516.3 | 3784.1 | 3853.2 | 3161.4 |
| 72.5° | 173.4  | 179.6  | 185.7  | 188.8  | 222.0  | 397.5  | 933.0  | 2103.8 | 3432.3 | 3479.2 | 2748.7 |
| 75°   | 157.3  | 158.9  | 164.0  | 163.0  | 169.3  | 257.9  | 538.5  | 1532.9 | 2708.2 | 2692.0 | 2029.2 |
| 77.5° | 132.2  | 134.3  | 142.8  | 141.4  | 150.5  | 176.3  | 279.6  | 989.2  | 1755.7 | 1646.2 | 1129.4 |
| 80°   | 112.0  | 113.1  | 122.3  | 120.7  | 130.7  | 127.6  | 142.8  | 504.2  | 744.7  | 630.9  | 325.6  |
| 82.5° | 38.8   | 48.1   | 93.4   | 96.1   | 99.7   | 77.3   | 82.4   | 205.7  | 227.4  | 174.2  | 68.3   |
| 85°   | 19.0   | 20.2   | 47.6   | 67.5   | 67.2   | 38.8   | 40.2   | 73.4   | 71.6   | 56.3   | 22.8   |
| 87.5° | 3.1    | 3.8    | 5.6    | 26.3   | 21.0   | 10.2   | 13.8   | 14.3   | 14.9   | 12.8   | 5.1    |
| 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: P959361  
 CATALOG NUMBER: NVN-SB1A-750-U-T2R

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 581.5  | 581.5 | 581.5 | 581.5 | 581.5 | 581.5 | 581.5 | 581.5 | 581.5 | 581.5 | 581.5 |
| 2.5°  | 587.8  | 575.1 | 548.3 | 523.4 | 504.0 | 485.3 | 474.8 | 465.9 | 460.7 | 459.7 | 459.7 |
| 5°    | 603.7  | 577.4 | 528.5 | 487.4 | 460.4 | 440.5 | 430.0 | 423.4 | 420.0 | 418.0 | 417.8 |
| 7.5°  | 626.5  | 587.8 | 518.2 | 471.5 | 443.3 | 429.0 | 423.6 | 422.6 | 422.4 | 422.6 | 423.4 |
| 10°   | 657.9  | 605.1 | 517.3 | 467.6 | 444.1 | 436.1 | 435.9 | 436.1 | 437.2 | 437.5 | 437.7 |
| 12.5° | 692.0  | 622.7 | 521.3 | 471.0 | 453.9 | 449.5 | 448.7 | 448.4 | 449.3 | 449.8 | 450.0 |
| 15°   | 729.1  | 646.0 | 528.3 | 478.2 | 464.5 | 459.9 | 459.2 | 457.7 | 457.4 | 457.2 | 456.9 |
| 17.5° | 767.2  | 669.0 | 536.0 | 485.8 | 471.5 | 465.0 | 462.3 | 458.7 | 455.9 | 455.1 | 455.9 |
| 20°   | 805.9  | 691.8 | 541.3 | 489.6 | 472.0 | 463.0 | 457.4 | 451.3 | 446.4 | 443.6 | 444.6 |
| 22.5° | 847.1  | 715.6 | 544.7 | 488.6 | 467.4 | 455.1 | 444.8 | 437.7 | 430.3 | 425.5 | 425.7 |
| 25°   | 887.1  | 736.3 | 544.4 | 483.3 | 458.4 | 442.8 | 429.8 | 420.6 | 410.3 | 405.2 | 405.2 |
| 27.5° | 925.8  | 754.9 | 538.0 | 473.8 | 445.7 | 428.2 | 412.7 | 401.6 | 391.7 | 386.8 | 386.5 |
| 30°   | 965.8  | 770.5 | 528.0 | 459.9 | 430.5 | 411.3 | 394.2 | 384.8 | 375.8 | 371.2 | 370.9 |
| 32.5° | 1005.4 | 784.8 | 513.9 | 442.8 | 413.2 | 394.7 | 377.8 | 369.1 | 363.8 | 363.8 | 364.1 |
| 35°   | 1047.3 | 794.8 | 495.3 | 422.9 | 394.7 | 377.1 | 363.8 | 358.6 | 358.1 | 355.1 | 354.3 |
| 37.5° | 1091.6 | 801.2 | 472.5 | 402.4 | 376.6 | 360.0 | 355.9 | 349.7 | 344.6 | 337.9 | 336.9 |
| 40°   | 1138.2 | 807.6 | 445.2 | 381.2 | 357.4 | 348.2 | 346.3 | 338.1 | 323.6 | 307.2 | 304.9 |
| 42.5° | 1194.6 | 812.0 | 416.8 | 360.0 | 337.1 | 334.2 | 336.6 | 322.6 | 299.3 | 287.0 | 287.3 |
| 45°   | 1260.1 | 819.2 | 390.6 | 339.0 | 316.4 | 316.4 | 327.2 | 308.7 | 289.6 | 281.9 | 283.2 |
| 47.5° | 1345.1 | 835.8 | 366.3 | 315.9 | 297.2 | 302.4 | 306.2 | 292.1 | 281.4 | 271.9 | 271.7 |
| 50°   | 1467.9 | 875.7 | 341.2 | 292.6 | 282.7 | 292.9 | 287.5 | 279.3 | 266.8 | 259.1 | 258.4 |
| 52.5° | 1620.3 | 899.2 | 319.0 | 271.7 | 270.2 | 280.3 | 272.8 | 265.1 | 255.5 | 245.3 | 243.3 |
| 55°   | 1724.3 | 903.5 | 300.3 | 256.4 | 261.7 | 260.7 | 257.9 | 250.9 | 245.8 | 232.3 | 232.6 |
| 57.5° | 1840.4 | 912.2 | 285.0 | 247.1 | 256.4 | 245.1 | 244.1 | 238.2 | 231.5 | 222.3 | 219.2 |
| 60°   | 1979.3 | 925.8 | 271.7 | 243.5 | 251.7 | 234.8 | 229.7 | 227.4 | 220.8 | 216.2 | 217.4 |
| 62.5° | 2130.8 | 938.1 | 258.1 | 244.1 | 246.3 | 224.9 | 217.2 | 216.4 | 212.4 | 210.8 | 210.8 |
| 65°   | 2234.1 | 904.6 | 241.3 | 243.5 | 237.9 | 214.6 | 204.9 | 204.7 | 201.3 | 200.8 | 200.6 |
| 67.5° | 2198.0 | 798.4 | 218.4 | 236.4 | 229.2 | 204.4 | 193.6 | 192.6 | 188.3 | 188.5 | 188.5 |
| 70°   | 2017.4 | 647.0 | 187.0 | 218.7 | 218.4 | 195.2 | 181.9 | 178.6 | 172.7 | 173.7 | 174.8 |
| 72.5° | 1678.6 | 479.4 | 144.8 | 189.3 | 201.3 | 186.8 | 168.3 | 163.0 | 155.5 | 156.5 | 156.3 |
| 75°   | 1212.4 | 326.0 | 105.4 | 144.0 | 175.3 | 176.8 | 155.0 | 145.9 | 136.8 | 138.4 | 138.9 |
| 77.5° | 620.3  | 184.7 | 77.5  | 99.2  | 137.7 | 160.6 | 143.0 | 130.7 | 128.6 | 143.0 | 140.9 |
| 80°   | 202.3  | 92.6  | 53.7  | 69.6  | 90.3  | 131.5 | 125.4 | 111.3 | 110.8 | 114.1 | 98.0  |
| 82.5° | 60.4   | 39.2  | 34.5  | 45.8  | 49.9  | 100.8 | 108.2 | 84.2  | 72.4  | 76.3  | 78.8  |
| 85°   | 20.7   | 19.0  | 19.7  | 22.8  | 23.8  | 59.1  | 75.7  | 55.8  | 52.7  | 58.1  | 57.3  |
| 87.5° | 4.8    | 6.7   | 5.6   | 5.1   | 5.1   | 14.3  | 29.4  | 23.3  | 32.2  | 21.5  | 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)