

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: P960374

Luminaire Tested: **NVN-SB1C-740-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P960374  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB1C-740-U-SL3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

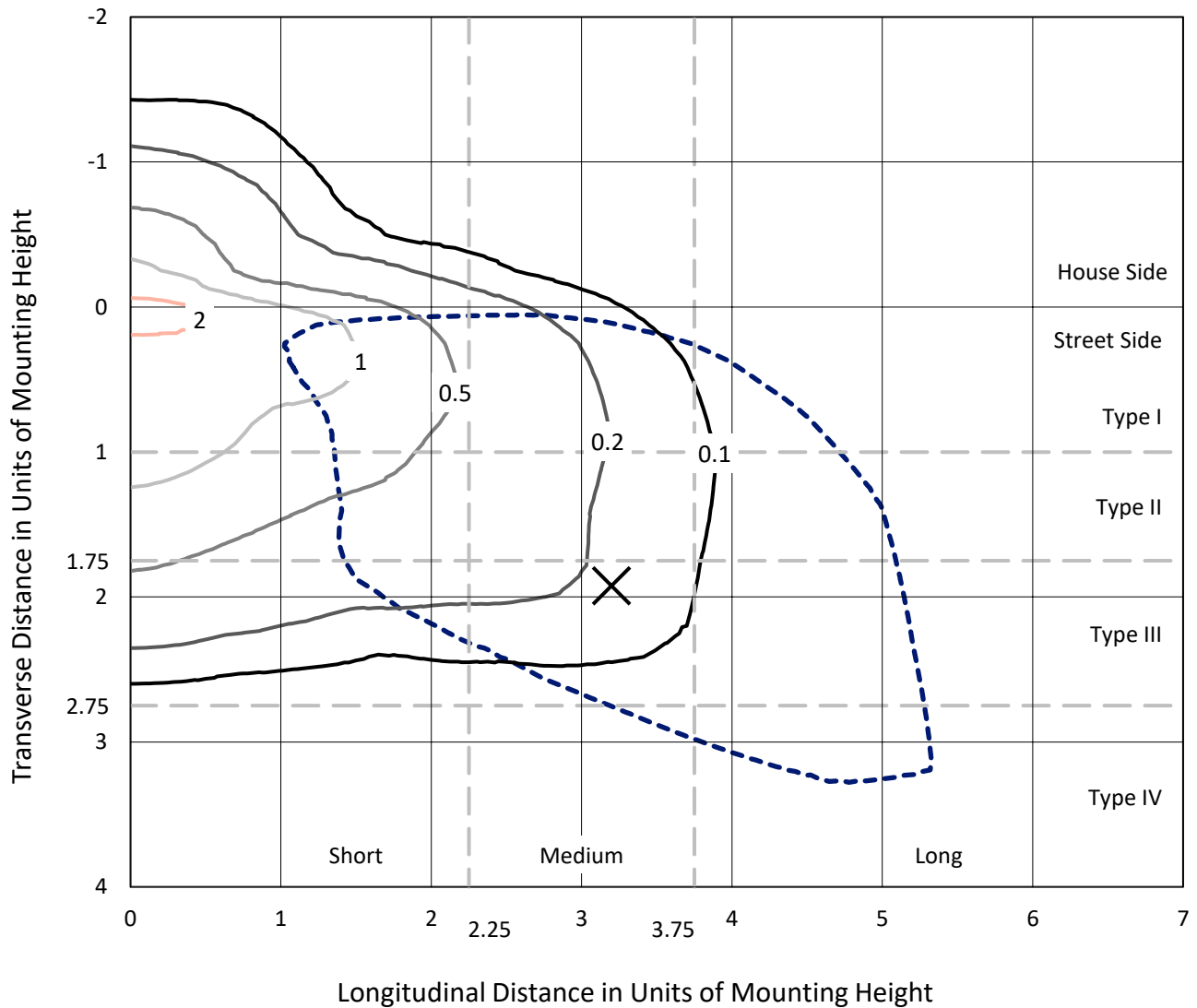
Lumens per Lamp: N/A  
Luminaire Lumens: 7939.6 lumens  
Efficiency: N/A  
Efficacy: 145.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): 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: P960374  
 CATALOG NUMBER: NVN-SB1C-740-U-SL3

### Iso-Footcandle Lines of Horizontal Illumination

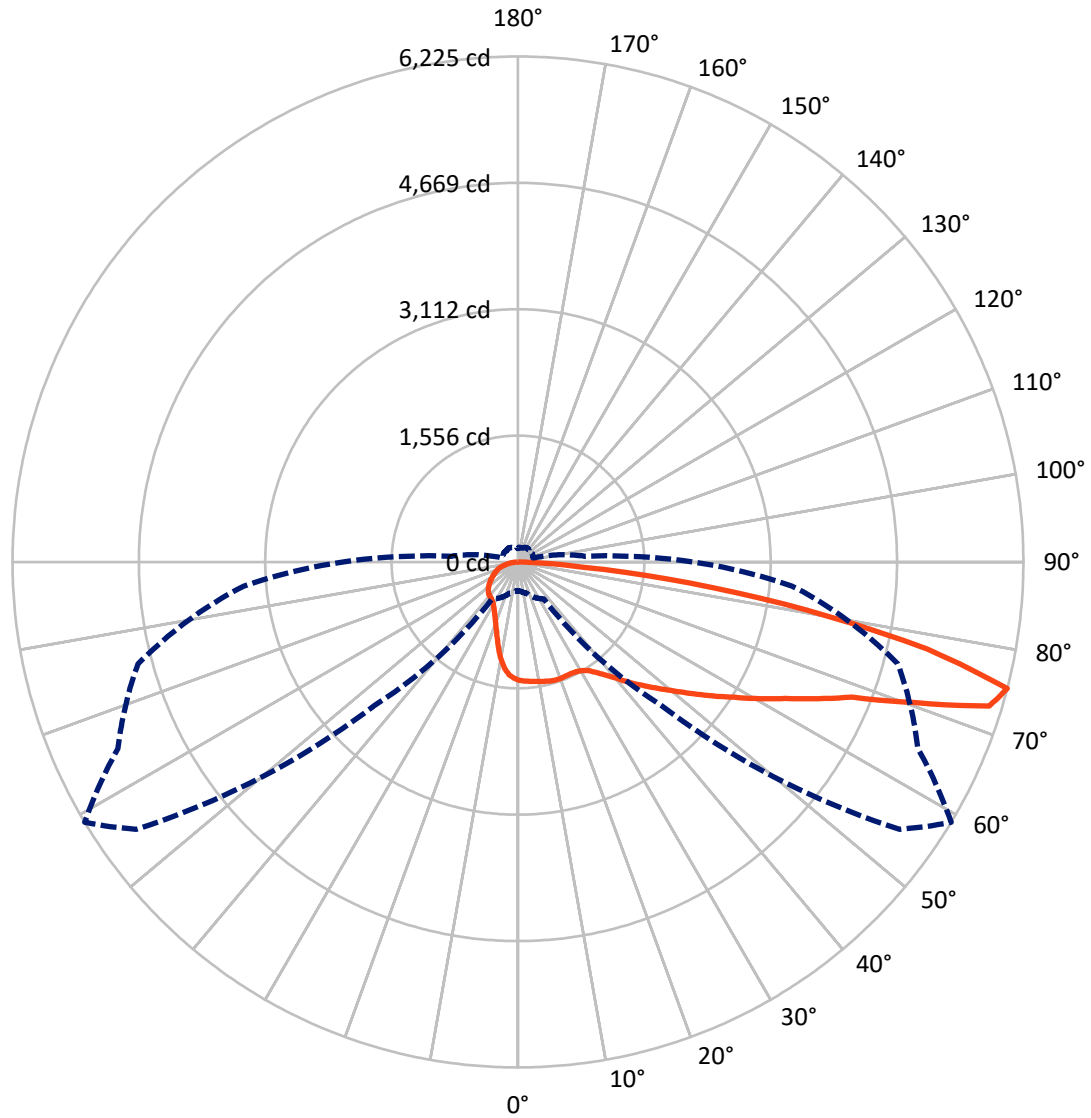
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P960374  
CATALOG NUMBER: NVN-SB1C-740-U-SL3

### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P960374

CATALOG NUMBER: NVN-SB1C-740-U-SL3

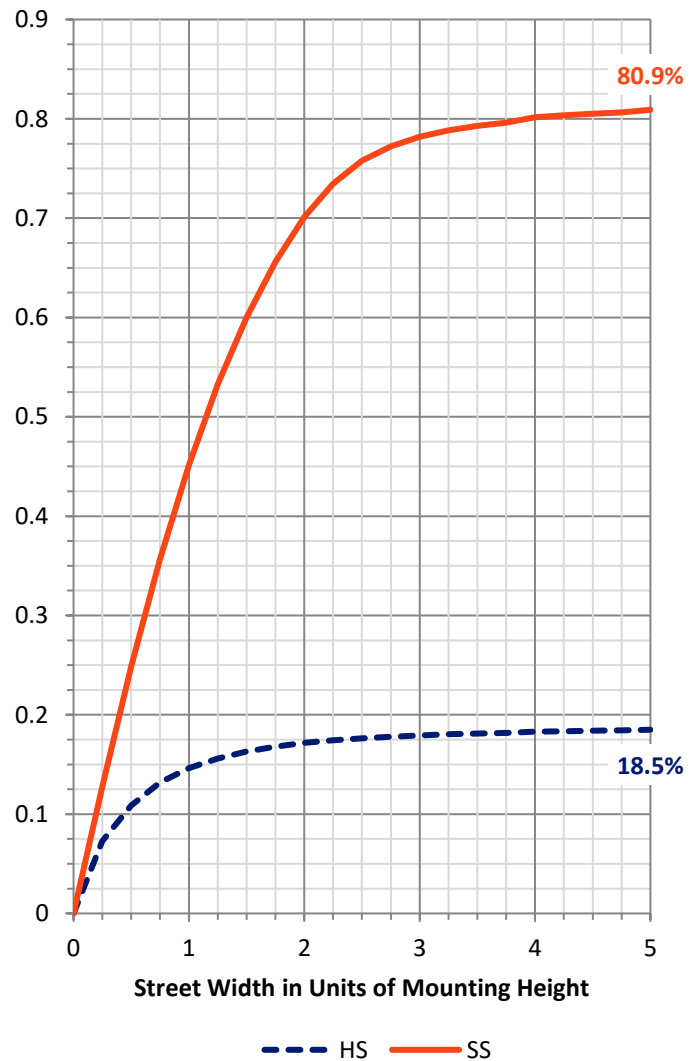
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1489.1   | 0.0    | 1489.1 |
|                    | % Fixture | 18.8     | 0.0    | 18.8   |
| <b>Street Side</b> | Lumens    | 6450.5   | 0.0    | 6450.5 |
|                    | % Fixture | 81.2     | 0.0    | 81.2   |
| <b>Total</b>       | Lumens    | 7939.6   | 0.0    | 7939.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 130.7  | 1.6       |
| 10°-20°   | 334.0  | 4.2       |
| 20°-30°   | 507.3  | 6.4       |
| 30°-40°   | 754.1  | 9.5       |
| 40°-50°   | 1121.5 | 14.1      |
| 50°-60°   | 1522.3 | 19.2      |
| 60°-70°   | 1858.5 | 23.4      |
| 70°-80°   | 1458.5 | 18.4      |
| 80°-90°   | 252.6  | 3.2       |
| 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°    | 7939.6 | 100.0     |
| 0°-180°   | 7939.6 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P960374

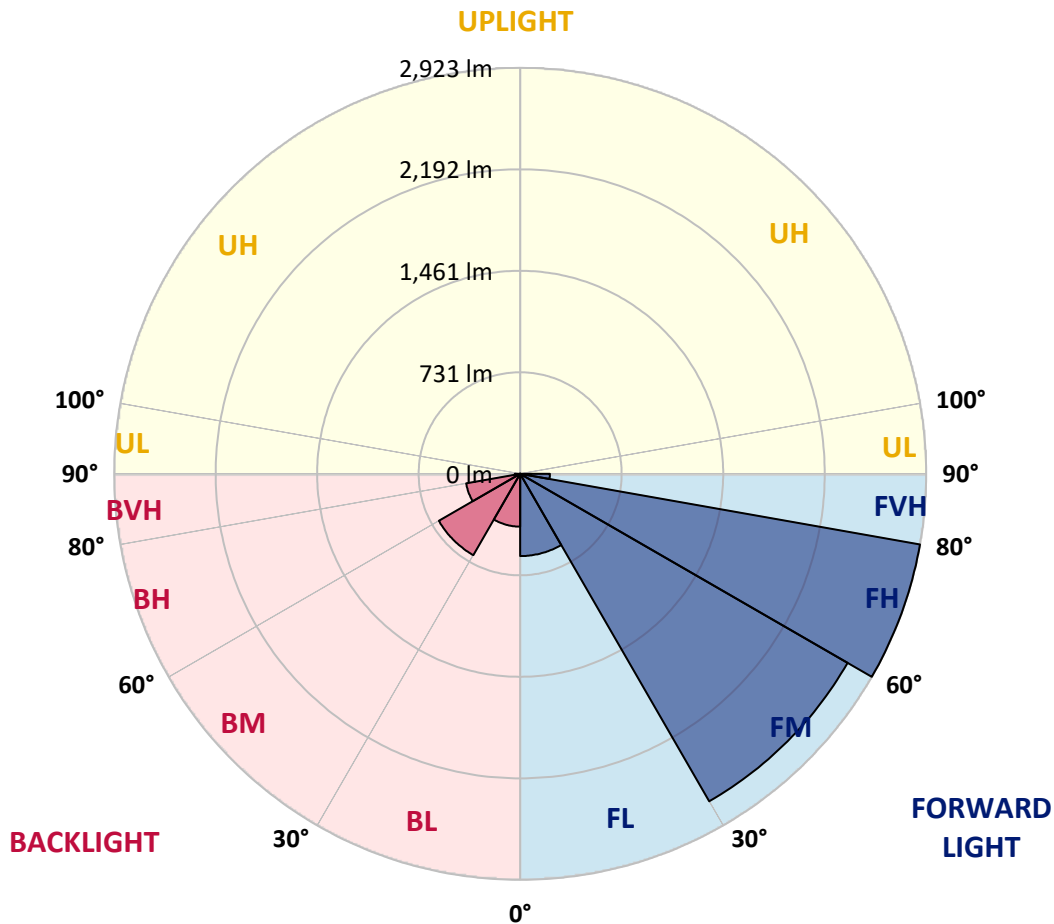
CATALOG NUMBER: NVN-SB1C-740-U-SL3

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 592.0  | 7.5       |                         |      |         |
| FM (30°-60°)   | 2722.0 | 34.3      |                         |      |         |
| FH (60°-80°)   | 2922.5 | 36.8      |                         |      | G2/5000 |
| FVH (80°-90°)  | 214.0  | 2.7       |                         |      | G2/225  |
| BL (0°-30°)    | 380.0  | 4.8       | B1/500                  |      |         |
| BM (30°-60°)   | 675.9  | 8.5       | B1/1000                 |      |         |
| BH (60°-80°)   | 394.5  | 5.0       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 38.7   | 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-G2**

Type IV Medium



REPORT NUMBER: P960374

CATALOG NUMBER: NVN-SB1C-740-U-SL3

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 59°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1457.3 | 1457.3 | 1457.3 | 1457.3 | 1457.3 | 1457.3 | 1457.3 | 1457.3 | 1457.3 | 1457.3 | 1457.3 |
| 2.5°  | 1469.6 | 1464.5 | 1469.6 | 1467.6 | 1466.7 | 1465.0 | 1465.4 | 1468.4 | 1466.7 | 1468.8 | 1461.5 |
| 5°    | 1459.9 | 1456.8 | 1462.0 | 1460.7 | 1466.3 | 1467.1 | 1472.7 | 1476.1 | 1478.3 | 1478.7 | 1473.1 |
| 7.5°  | 1443.6 | 1440.6 | 1447.9 | 1453.9 | 1465.9 | 1469.2 | 1480.8 | 1486.4 | 1489.3 | 1494.4 | 1486.4 |
| 10°   | 1384.3 | 1383.0 | 1401.0 | 1423.5 | 1451.7 | 1469.2 | 1486.8 | 1496.2 | 1500.9 | 1514.5 | 1505.1 |
| 12.5° | 1279.2 | 1280.9 | 1304.4 | 1348.0 | 1404.4 | 1460.7 | 1493.6 | 1507.3 | 1514.5 | 1531.7 | 1527.4 |
| 15°   | 1178.9 | 1178.4 | 1204.1 | 1250.6 | 1329.6 | 1423.1 | 1497.0 | 1520.5 | 1532.9 | 1558.1 | 1554.7 |
| 17.5° | 1120.7 | 1119.0 | 1136.9 | 1172.4 | 1245.9 | 1365.5 | 1488.5 | 1527.8 | 1554.3 | 1585.9 | 1582.9 |
| 20°   | 1110.1 | 1106.7 | 1116.0 | 1133.5 | 1185.6 | 1302.3 | 1466.3 | 1527.8 | 1571.3 | 1612.3 | 1610.7 |
| 22.5° | 1148.9 | 1143.4 | 1139.5 | 1137.4 | 1160.5 | 1250.2 | 1441.0 | 1522.6 | 1596.5 | 1650.4 | 1647.4 |
| 25°   | 1227.1 | 1218.5 | 1198.9 | 1179.7 | 1172.8 | 1226.6 | 1418.9 | 1521.4 | 1634.2 | 1701.6 | 1690.5 |
| 27.5° | 1353.5 | 1342.9 | 1303.1 | 1257.0 | 1215.5 | 1238.6 | 1409.1 | 1529.1 | 1675.6 | 1755.8 | 1733.7 |
| 30°   | 1510.2 | 1498.8 | 1448.7 | 1377.9 | 1303.6 | 1283.0 | 1421.5 | 1551.7 | 1728.6 | 1828.1 | 1784.4 |
| 32.5° | 1650.8 | 1637.9 | 1595.3 | 1523.0 | 1422.7 | 1360.0 | 1460.7 | 1594.8 | 1811.8 | 1928.4 | 1860.9 |
| 35°   | 1775.5 | 1760.5 | 1722.1 | 1655.5 | 1568.8 | 1468.0 | 1531.7 | 1671.3 | 1930.1 | 2091.6 | 1964.7 |
| 37.5° | 1897.7 | 1880.2 | 1838.3 | 1767.8 | 1707.1 | 1611.9 | 1629.4 | 1769.6 | 2087.3 | 2289.7 | 2102.3 |
| 40°   | 2034.3 | 2009.1 | 1958.3 | 1888.7 | 1829.7 | 1780.6 | 1758.0 | 1890.0 | 2247.0 | 2510.9 | 2274.0 |
| 42.5° | 2166.7 | 2142.9 | 2082.2 | 2022.8 | 1948.9 | 1934.8 | 1907.0 | 2030.9 | 2421.8 | 2754.0 | 2448.2 |
| 45°   | 2309.4 | 2280.7 | 2207.3 | 2132.1 | 2085.6 | 2037.3 | 2051.4 | 2171.9 | 2593.0 | 3001.7 | 2631.0 |
| 47.5° | 2443.1 | 2411.0 | 2324.4 | 2240.6 | 2215.0 | 2123.6 | 2183.9 | 2327.0 | 2771.1 | 3252.8 | 2812.1 |
| 50°   | 2515.2 | 2483.7 | 2411.5 | 2335.9 | 2315.8 | 2230.0 | 2327.4 | 2497.3 | 2957.7 | 3503.1 | 2985.9 |
| 52.5° | 2575.5 | 2541.3 | 2446.9 | 2405.1 | 2399.1 | 2345.7 | 2504.2 | 2692.1 | 3144.4 | 3724.4 | 3153.8 |
| 55°   | 2639.6 | 2601.6 | 2481.1 | 2443.5 | 2470.9 | 2475.6 | 2713.9 | 2912.9 | 3341.7 | 3940.1 | 3312.3 |
| 57.5° | 2713.5 | 2665.2 | 2514.0 | 2476.0 | 2540.9 | 2627.6 | 2954.8 | 3141.8 | 3535.6 | 4140.0 | 3453.2 |
| 60°   | 2783.1 | 2734.4 | 2577.2 | 2527.6 | 2616.5 | 2804.0 | 3231.1 | 3419.0 | 3755.2 | 4318.1 | 3586.5 |
| 62.5° | 2796.7 | 2756.5 | 2627.6 | 2627.2 | 2719.0 | 3009.8 | 3558.3 | 3698.8 | 3947.0 | 4494.1 | 3706.1 |
| 65°   | 2560.1 | 2534.9 | 2458.5 | 2623.3 | 2865.9 | 3306.2 | 3922.6 | 4056.7 | 4190.8 | 4647.9 | 3811.2 |
| 67.5° | 1948.5 | 1951.9 | 1946.4 | 2264.5 | 2747.2 | 3732.1 | 4450.0 | 4439.8 | 4492.0 | 4820.4 | 3932.0 |
| 70°   | 890.9  | 911.0  | 1041.7 | 1563.2 | 2200.9 | 3781.2 | 5322.2 | 5189.4 | 4869.9 | 5043.7 | 4036.7 |
| 72.5° | 481.3  | 496.7  | 550.1  | 757.3  | 1323.2 | 3361.8 | 5974.0 | 6068.4 | 5372.6 | 5194.1 | 3921.8 |
| 75°   | 353.2  | 361.7  | 398.9  | 481.3  | 555.7  | 2498.6 | 5740.4 | 6224.7 | 5435.5 | 4843.4 | 3386.6 |
| 77.5° | 264.3  | 268.2  | 298.6  | 381.4  | 284.4  | 1317.2 | 4586.8 | 5155.2 | 4653.0 | 3979.4 | 2501.6 |
| 80°   | 191.8  | 196.1  | 218.6  | 286.2  | 199.5  | 481.7  | 3149.5 | 3618.5 | 3186.7 | 2536.6 | 1246.7 |
| 82.5° | 132.4  | 134.1  | 143.9  | 194.7  | 139.2  | 187.1  | 1787.0 | 2121.9 | 1778.9 | 890.1  | 336.6  |
| 85°   | 79.8   | 82.0   | 86.3   | 113.6  | 79.0   | 88.9   | 771.3  | 797.9  | 531.8  | 212.7  | 104.7  |
| 87.5° | 32.9   | 35.1   | 38.4   | 47.9   | 31.2   | 24.8   | 127.3  | 159.7  | 99.5   | 62.3   | 32.5   |
| 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: P960374

CATALOG NUMBER: NVN-SB1C-740-U-SL3

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1457.3 | 1457.3 | 1457.3 | 1457.3 | 1457.3 | 1457.3 | 1457.3 | 1457.3 | 1457.3 | 1457.3 | 1457.3 |
| 2.5°  | 1459.4 | 1456.4 | 1448.3 | 1437.3 | 1427.0 | 1414.2 | 1408.7 | 1403.9 | 1399.6 | 1391.5 | 1387.6 |
| 5°    | 1468.4 | 1460.3 | 1438.5 | 1410.3 | 1378.3 | 1343.3 | 1309.1 | 1285.6 | 1265.6 | 1250.6 | 1238.2 |
| 7.5°  | 1482.0 | 1466.7 | 1427.0 | 1369.3 | 1295.9 | 1220.7 | 1152.8 | 1104.5 | 1068.3 | 1054.9 | 1031.9 |
| 10°   | 1496.2 | 1477.8 | 1408.7 | 1307.0 | 1180.1 | 1064.4 | 974.3  | 924.7  | 895.6  | 886.2  | 871.8  |
| 12.5° | 1512.8 | 1485.9 | 1380.0 | 1220.3 | 1050.7 | 923.8  | 845.2  | 816.2  | 801.2  | 796.1  | 797.4  |
| 15°   | 1537.2 | 1492.7 | 1336.9 | 1111.8 | 927.2  | 821.3  | 770.5  | 750.4  | 742.7  | 742.3  | 744.0  |
| 17.5° | 1555.5 | 1494.0 | 1269.8 | 995.6  | 832.4  | 759.4  | 717.5  | 709.8  | 714.9  | 722.6  | 725.7  |
| 20°   | 1576.0 | 1482.5 | 1181.8 | 889.7  | 765.8  | 705.2  | 687.7  | 692.8  | 705.2  | 716.3  | 720.1  |
| 22.5° | 1590.6 | 1461.5 | 1075.4 | 807.3  | 708.2  | 673.9  | 673.1  | 683.8  | 690.6  | 696.2  | 699.2  |
| 25°   | 1603.4 | 1426.1 | 962.7  | 738.0  | 660.7  | 655.2  | 664.6  | 661.1  | 656.5  | 661.1  | 664.2  |
| 27.5° | 1612.7 | 1370.2 | 861.9  | 677.4  | 627.4  | 642.4  | 636.8  | 629.1  | 628.7  | 631.3  | 635.5  |
| 30°   | 1609.8 | 1295.4 | 779.1  | 619.7  | 603.9  | 618.5  | 605.3  | 603.9  | 602.7  | 603.9  | 608.6  |
| 32.5° | 1609.8 | 1210.4 | 715.4  | 580.0  | 589.0  | 583.4  | 582.2  | 579.1  | 574.0  | 573.6  | 579.1  |
| 35°   | 1618.8 | 1125.4 | 660.7  | 558.6  | 576.6  | 563.3  | 564.3  | 557.0  | 546.3  | 541.2  | 546.3  |
| 37.5° | 1637.1 | 1057.1 | 606.5  | 548.4  | 554.8  | 554.4  | 550.9  | 538.6  | 519.8  | 503.6  | 509.1  |
| 40°   | 1681.5 | 1037.0 | 569.4  | 543.8  | 544.6  | 549.7  | 540.7  | 516.8  | 474.1  | 447.6  | 451.0  |
| 42.5° | 1751.1 | 1070.8 | 561.2  | 532.2  | 537.7  | 542.8  | 525.3  | 469.9  | 439.5  | 423.7  | 423.7  |
| 45°   | 1839.6 | 1129.8 | 578.7  | 515.6  | 521.5  | 530.4  | 478.4  | 451.9  | 438.2  | 438.6  | 440.7  |
| 47.5° | 1951.5 | 1191.7 | 611.2  | 501.0  | 498.0  | 503.2  | 447.2  | 430.9  | 412.2  | 416.9  | 428.9  |
| 50°   | 2080.9 | 1254.4 | 642.0  | 481.3  | 471.9  | 455.3  | 427.1  | 411.7  | 387.9  | 376.7  | 379.7  |
| 52.5° | 2221.0 | 1315.1 | 654.4  | 457.5  | 443.7  | 424.6  | 413.5  | 394.6  | 365.6  | 347.3  | 346.9  |
| 55°   | 2353.8 | 1370.2 | 640.6  | 428.9  | 415.5  | 400.7  | 398.9  | 387.3  | 356.2  | 330.6  | 330.6  |
| 57.5° | 2479.4 | 1416.3 | 606.5  | 399.7  | 386.9  | 378.0  | 389.5  | 384.0  | 344.7  | 311.8  | 310.1  |
| 60°   | 2585.8 | 1447.9 | 557.0  | 370.3  | 361.3  | 356.6  | 374.1  | 372.5  | 328.4  | 291.7  | 290.5  |
| 62.5° | 2670.3 | 1460.3 | 502.2  | 342.1  | 340.0  | 331.5  | 352.8  | 352.8  | 307.9  | 272.0  | 270.8  |
| 65°   | 2736.5 | 1448.3 | 446.8  | 314.4  | 318.7  | 305.9  | 326.8  | 324.2  | 286.2  | 254.5  | 252.9  |
| 67.5° | 2795.0 | 1409.1 | 385.3  | 287.0  | 296.8  | 280.6  | 299.4  | 293.5  | 262.3  | 237.1  | 235.3  |
| 70°   | 2821.1 | 1317.6 | 315.2  | 259.7  | 271.6  | 255.8  | 272.0  | 261.0  | 235.3  | 218.2  | 214.8  |
| 72.5° | 2611.8 | 1095.1 | 248.2  | 231.0  | 241.3  | 228.5  | 242.6  | 229.8  | 206.3  | 198.6  | 192.2  |
| 75°   | 2160.8 | 821.7  | 191.0  | 199.9  | 207.6  | 197.7  | 207.2  | 197.7  | 176.4  | 181.9  | 166.2  |
| 77.5° | 1569.2 | 554.8  | 146.1  | 167.0  | 170.5  | 165.3  | 173.4  | 162.8  | 143.5  | 142.3  | 135.8  |
| 80°   | 780.3  | 325.0  | 114.5  | 132.0  | 130.7  | 127.3  | 136.6  | 131.5  | 115.3  | 122.2  | 120.8  |
| 82.5° | 225.9  | 139.2  | 83.3   | 92.7   | 90.1   | 91.0   | 97.8   | 100.3  | 150.4  | 149.0  | 152.5  |
| 85°   | 70.9   | 54.6   | 50.0   | 51.7   | 49.1   | 50.4   | 57.7   | 114.5  | 105.9  | 61.9   | 67.0   |
| 87.5° | 18.3   | 18.8   | 12.4   | 13.2   | 13.6   | 16.2   | 18.3   | 69.6   | 33.3   | 21.8   | 23.1   |
| 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)