

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: P960961

Luminaire Tested: **NVN-SB1D-760-U-SL2**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P960961  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB1D-760-U-SL2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 5700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 10971.6 lumens  
Efficiency: N/A  
Efficacy: 137.8 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



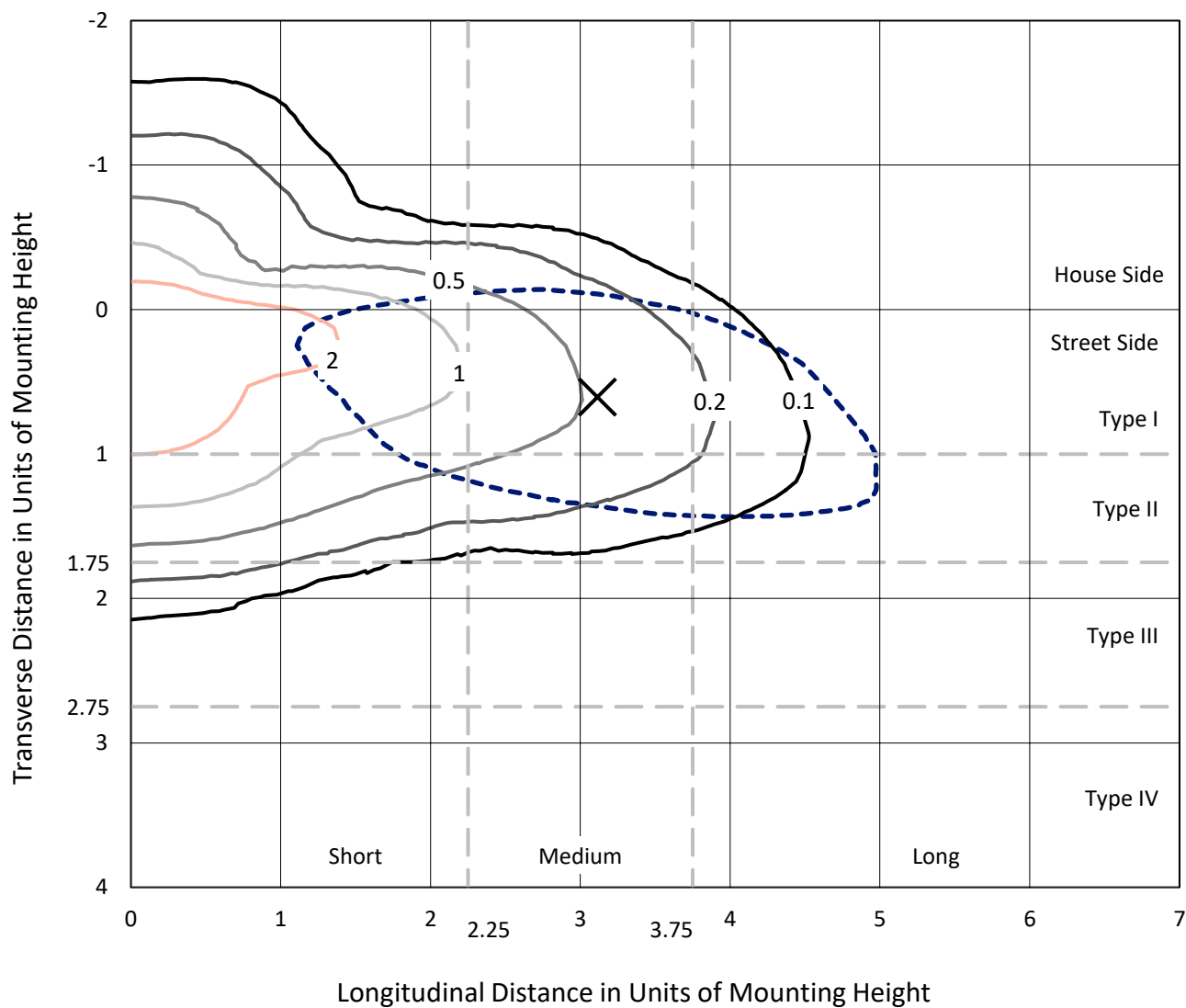
REPORT NUMBER: P960961

CATALOG NUMBER: NVN-SB1D-760-U-SL2

## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

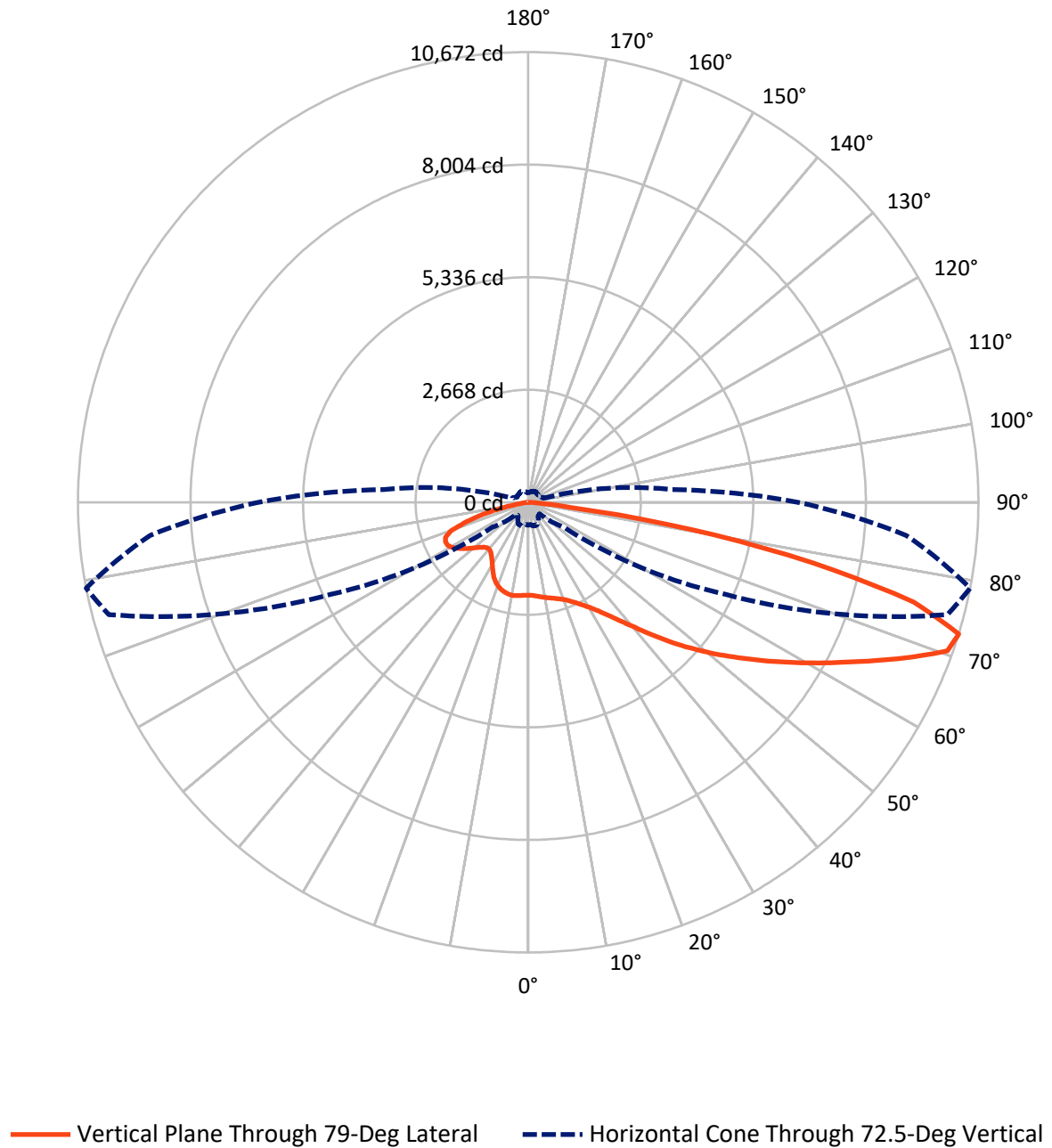


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
Type II - Medium - N/A

REPORT NUMBER: P960961

CATALOG NUMBER: NVN-SB1D-760-U-SL2

## Luminous Intensity Polar Plot



REPORT NUMBER: P960961

CATALOG NUMBER: NVN-SB1D-760-U-SL2

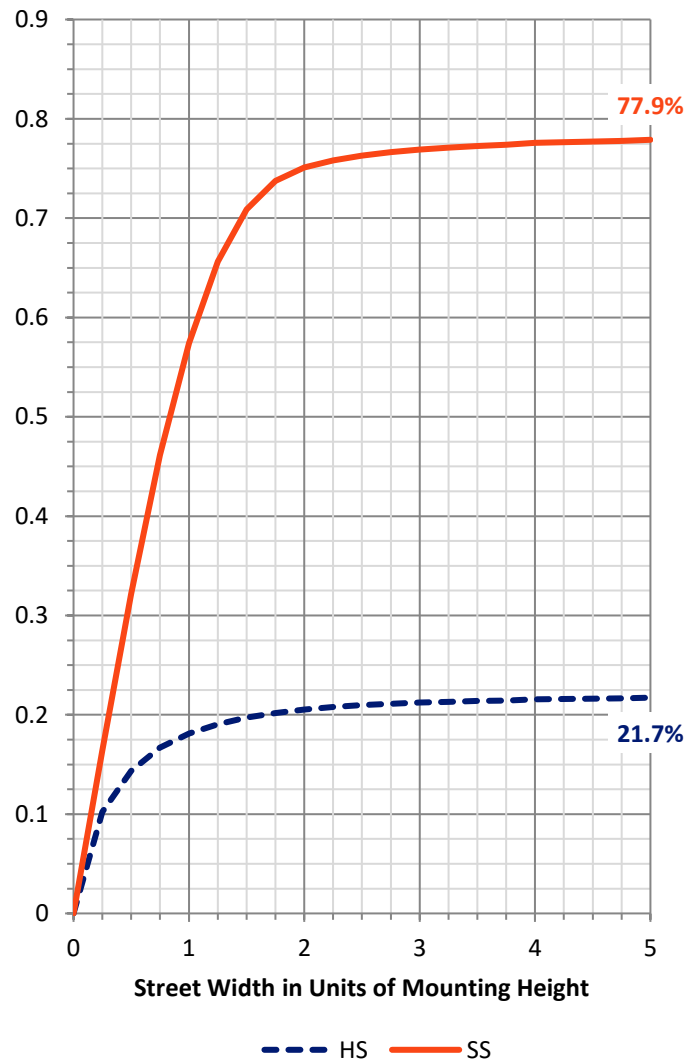
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2414.4   | 0.0    | 2414.4  |
|                    | % Fixture | 22.0     | 0.0    | 22.0    |
| <b>Street Side</b> | Lumens    | 8557.2   | 0.0    | 8557.2  |
|                    | % Fixture | 78.0     | 0.0    | 78.0    |
| <b>Total</b>       | Lumens    | 10971.6  | 0.0    | 10971.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 199.9   | 1.8       |
| 10°-20°   | 522.7   | 4.8       |
| 20°-30°   | 843.4   | 7.7       |
| 30°-40°   | 1265.8  | 11.5      |
| 40°-50°   | 1795.7  | 16.4      |
| 50°-60°   | 2267.7  | 20.7      |
| 60°-70°   | 2303.1  | 21.0      |
| 70°-80°   | 1569.7  | 14.3      |
| 80°-90°   | 203.7   | 1.9       |
| 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°    | 10971.6 | 100.0     |
| 0°-180°   | 10971.6 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P960961

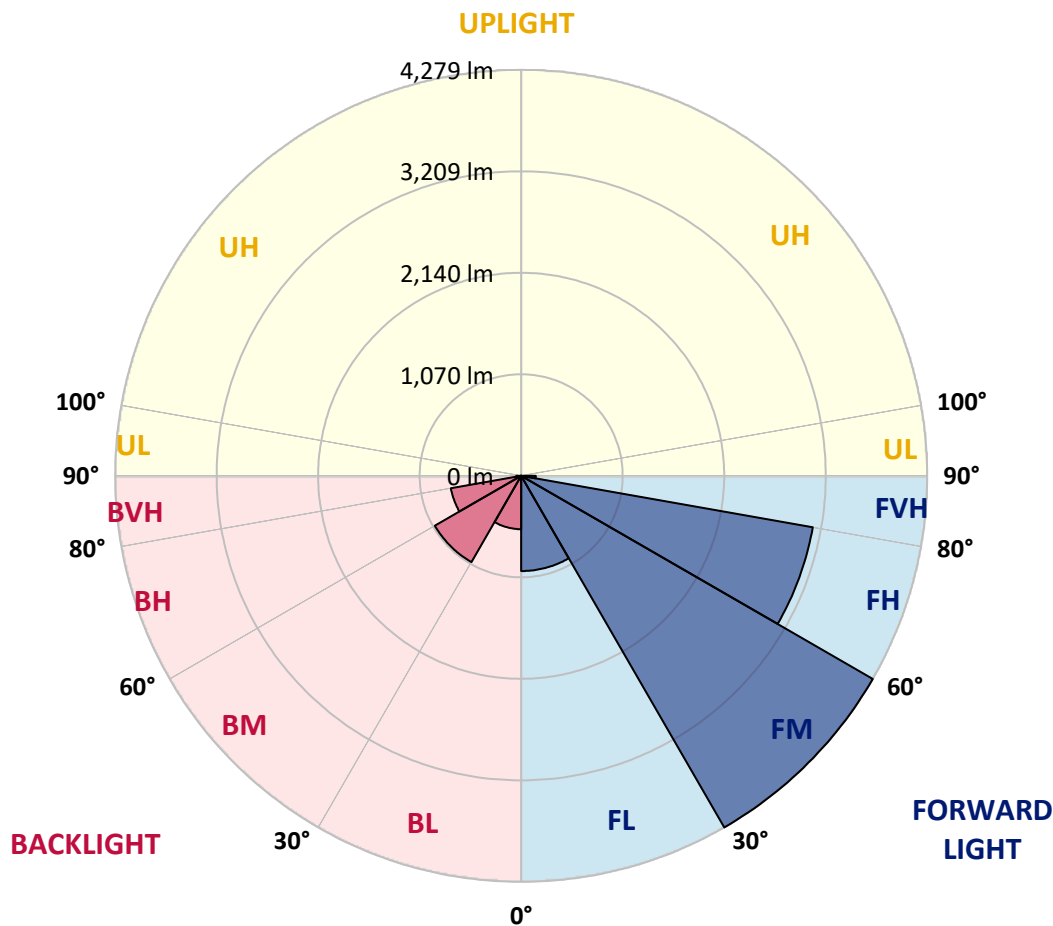
CATALOG NUMBER: NVN-SB1D-760-U-SL2

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1003.6 | 9.1       |                         |      |         |
| FM   | (30°-60°)   | 4279.2 | 39.0      |                         |      |         |
| FH   | (60°-80°)   | 3121.0 | 28.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 153.4  | 1.4       |                         |      | G2/225  |
| BL   | (0°-30°)    | 562.4  | 5.1       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1050.0 | 9.6       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 751.8  | 6.9       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 50.2   | 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



REPORT NUMBER: P960961

CATALOG NUMBER: NVN-SB1D-760-U-SL2

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°     | 79°     | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 0°    | 2202.4 | 2202.4 | 2202.4 | 2202.4 | 2202.4 | 2202.4 | 2202.4 | 2202.4 | 2202.4  | 2202.4  | 2202.4 |
| 2.5°  | 2203.6 | 2193.2 | 2199.5 | 2197.2 | 2200.2 | 2203.6 | 2204.8 | 2206.5 | 2212.4  | 2211.7  | 2211.1 |
| 5°    | 2198.9 | 2188.5 | 2197.2 | 2194.3 | 2201.9 | 2210.0 | 2217.0 | 2223.3 | 2232.7  | 2236.7  | 2230.9 |
| 7.5°  | 2189.1 | 2182.1 | 2190.8 | 2199.5 | 2213.5 | 2225.7 | 2235.5 | 2250.1 | 2263.4  | 2265.7  | 2269.8 |
| 10°   | 2131.6 | 2126.5 | 2146.8 | 2169.4 | 2207.6 | 2240.8 | 2262.2 | 2279.1 | 2293.5  | 2295.9  | 2301.6 |
| 12.5° | 2071.8 | 2065.5 | 2088.1 | 2118.9 | 2181.0 | 2240.8 | 2286.1 | 2308.1 | 2320.8  | 2328.4  | 2337.1 |
| 15°   | 2062.0 | 2056.8 | 2069.6 | 2096.2 | 2147.9 | 2225.1 | 2302.3 | 2342.8 | 2353.9  | 2362.6  | 2366.1 |
| 17.5° | 2109.6 | 2099.7 | 2104.9 | 2114.3 | 2144.4 | 2210.6 | 2315.1 | 2382.3 | 2399.2  | 2408.4  | 2408.4 |
| 20°   | 2219.8 | 2205.9 | 2197.8 | 2179.3 | 2174.0 | 2212.9 | 2313.8 | 2430.0 | 2452.0  | 2463.6  | 2466.5 |
| 22.5° | 2366.7 | 2357.4 | 2340.0 | 2293.0 | 2241.9 | 2241.4 | 2336.0 | 2490.9 | 2532.1  | 2543.1  | 2536.2 |
| 25°   | 2544.3 | 2530.3 | 2508.3 | 2444.4 | 2346.3 | 2297.6 | 2373.1 | 2568.6 | 2637.7  | 2640.6  | 2620.3 |
| 27.5° | 2748.5 | 2727.6 | 2697.5 | 2613.3 | 2481.0 | 2385.8 | 2430.0 | 2658.0 | 2759.0  | 2757.9  | 2716.0 |
| 30°   | 2963.9 | 2943.0 | 2911.1 | 2808.9 | 2642.3 | 2504.8 | 2508.9 | 2754.4 | 2902.9  | 2896.5  | 2825.2 |
| 32.5° | 3121.1 | 3105.4 | 3099.1 | 3020.2 | 2828.1 | 2645.2 | 2599.4 | 2861.2 | 3080.5  | 3074.7  | 2974.9 |
| 35°   | 3241.9 | 3221.6 | 3229.1 | 3189.1 | 3030.6 | 2802.6 | 2710.3 | 2988.3 | 3296.4  | 3295.8  | 3171.7 |
| 37.5° | 3361.4 | 3343.4 | 3349.8 | 3323.2 | 3218.1 | 3002.1 | 2845.5 | 3143.8 | 3563.9  | 3576.7  | 3409.6 |
| 40°   | 3470.5 | 3451.4 | 3476.9 | 3452.0 | 3363.7 | 3214.6 | 2999.3 | 3319.7 | 3873.9  | 3898.3  | 3697.5 |
| 42.5° | 3536.1 | 3521.0 | 3563.4 | 3563.9 | 3490.2 | 3393.9 | 3168.2 | 3513.5 | 4232.5  | 4287.1  | 4051.4 |
| 45°   | 3558.7 | 3553.5 | 3617.3 | 3630.7 | 3602.3 | 3497.8 | 3320.2 | 3724.7 | 4619.1  | 4716.5  | 4454.8 |
| 47.5° | 3534.4 | 3524.5 | 3612.7 | 3662.0 | 3684.7 | 3546.5 | 3446.2 | 3953.3 | 5013.7  | 5156.5  | 4894.7 |
| 50°   | 3411.3 | 3392.1 | 3523.3 | 3627.2 | 3707.8 | 3578.5 | 3573.3 | 4217.5 | 5462.3  | 5618.4  | 5337.0 |
| 52.5° | 3190.2 | 3175.7 | 3324.9 | 3505.3 | 3656.8 | 3594.2 | 3716.0 | 4505.9 | 5888.3  | 6090.2  | 5790.2 |
| 55°   | 2907.6 | 2888.4 | 3052.7 | 3288.3 | 3529.7 | 3588.9 | 3858.8 | 4828.6 | 6390.9  | 6595.8  | 6258.5 |
| 57.5° | 2459.6 | 2421.3 | 2629.0 | 2907.6 | 3322.5 | 3582.5 | 4007.3 | 5149.5 | 6901.5  | 7147.0  | 6758.2 |
| 60°   | 1806.0 | 1749.2 | 2004.0 | 2334.2 | 2917.5 | 3520.5 | 4191.3 | 5509.3 | 7514.4  | 7735.6  | 7303.7 |
| 62.5° | 1051.6 | 1018.5 | 1185.1 | 1493.2 | 2198.9 | 3154.8 | 4294.6 | 5927.8 | 8116.9  | 8348.9  | 7840.0 |
| 65°   | 816.5  | 807.3  | 821.7  | 845.6  | 1224.0 | 2362.0 | 3976.0 | 6335.7 | 8882.9  | 9045.4  | 8398.8 |
| 67.5° | 746.9  | 739.9  | 746.3  | 701.6  | 620.9  | 1315.7 | 3145.5 | 6439.0 | 9703.6  | 9802.2  | 8888.1 |
| 70°   | 663.9  | 655.8  | 676.7  | 638.4  | 488.6  | 598.4  | 2032.4 | 6064.1 | 10356.4 | 10541.5 | 9260.2 |
| 72.5° | 540.9  | 531.6  | 580.4  | 562.9  | 411.4  | 384.2  | 1020.8 | 5173.3 | 10287.9 | 10672.1 | 8993.8 |
| 75°   | 415.5  | 410.3  | 468.3  | 482.9  | 335.5  | 302.4  | 489.8  | 3845.4 | 9053.5  | 9440.7  | 7751.3 |
| 77.5° | 322.7  | 318.6  | 348.2  | 401.0  | 270.4  | 234.4  | 301.2  | 2439.2 | 6822.6  | 6890.6  | 5341.6 |
| 80°   | 242.0  | 230.4  | 257.7  | 310.5  | 210.6  | 171.2  | 204.3  | 1422.5 | 4312.6  | 3909.2  | 2324.9 |
| 82.5° | 151.5  | 145.7  | 168.3  | 207.2  | 148.5  | 117.8  | 132.9  | 785.8  | 1728.3  | 1017.9  | 448.6  |
| 85°   | 86.5   | 84.2   | 91.7   | 118.4  | 80.7   | 67.9   | 76.1   | 347.1  | 315.7   | 217.1   | 135.2  |
| 87.5° | 34.8   | 33.6   | 41.8   | 52.8   | 29.6   | 24.9   | 26.6   | 83.5   | 69.6    | 64.4    | 44.7   |
| 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: P960961

CATALOG NUMBER: NVN-SB1D-760-U-SL2

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2202.4 | 2202.4 | 2202.4 | 2202.4 | 2202.4 | 2202.4 | 2202.4 | 2202.4 | 2202.4 | 2202.4 | 2202.4 |
| 2.5°  | 2208.9 | 2208.9 | 2200.7 | 2188.0 | 2173.4 | 2164.2 | 2149.0 | 2145.0 | 2129.3 | 2124.7 | 2132.2 |
| 5°    | 2235.5 | 2230.9 | 2205.9 | 2169.9 | 2120.6 | 2075.3 | 2025.4 | 1994.1 | 1950.0 | 1934.3 | 1946.0 |
| 7.5°  | 2269.1 | 2256.4 | 2213.5 | 2134.6 | 2031.2 | 1929.7 | 1824.1 | 1743.9 | 1667.4 | 1640.1 | 1643.6 |
| 10°   | 2299.9 | 2282.0 | 2208.9 | 2070.7 | 1891.9 | 1716.2 | 1547.9 | 1430.0 | 1340.6 | 1304.0 | 1312.2 |
| 12.5° | 2330.7 | 2297.6 | 2178.0 | 1964.5 | 1694.0 | 1455.5 | 1276.2 | 1184.5 | 1129.3 | 1085.3 | 1099.7 |
| 15°   | 2359.8 | 2313.3 | 2130.5 | 1822.3 | 1477.0 | 1235.0 | 1102.7 | 1029.5 | 985.4  | 956.4  | 961.7  |
| 17.5° | 2393.4 | 2326.6 | 2059.1 | 1641.8 | 1270.4 | 1082.4 | 974.4  | 930.3  | 921.6  | 918.1  | 920.4  |
| 20°   | 2440.4 | 2338.8 | 1965.1 | 1439.8 | 1118.4 | 960.5  | 904.8  | 900.7  | 900.2  | 898.4  | 904.2  |
| 22.5° | 2490.9 | 2353.3 | 1840.9 | 1256.4 | 988.9  | 884.5  | 874.6  | 866.4  | 861.2  | 860.7  | 867.0  |
| 25°   | 2550.6 | 2358.0 | 1685.3 | 1106.2 | 878.6  | 848.5  | 836.9  | 824.7  | 821.2  | 821.2  | 824.7  |
| 27.5° | 2608.7 | 2342.3 | 1504.3 | 975.6  | 816.5  | 815.4  | 800.3  | 796.2  | 795.7  | 797.4  | 802.1  |
| 30°   | 2666.7 | 2312.7 | 1324.4 | 854.8  | 780.5  | 780.5  | 775.3  | 778.3  | 780.5  | 786.4  | 790.5  |
| 32.5° | 2745.1 | 2281.3 | 1174.0 | 765.5  | 749.3  | 743.4  | 748.7  | 754.5  | 756.8  | 764.3  | 770.7  |
| 35°   | 2860.0 | 2259.3 | 1054.5 | 716.8  | 716.8  | 709.2  | 712.1  | 710.9  | 705.7  | 702.2  | 710.3  |
| 37.5° | 3012.1 | 2258.2 | 955.8  | 694.1  | 689.4  | 688.3  | 688.9  | 681.3  | 661.0  | 636.6  | 637.2  |
| 40°   | 3194.8 | 2289.5 | 879.9  | 678.4  | 675.0  | 681.9  | 678.4  | 658.2  | 602.4  | 560.1  | 558.8  |
| 42.5° | 3440.3 | 2378.9 | 831.1  | 659.3  | 669.7  | 678.4  | 664.5  | 594.3  | 556.6  | 528.1  | 527.0  |
| 45°   | 3729.4 | 2524.0 | 806.2  | 639.0  | 659.9  | 670.3  | 603.0  | 572.3  | 542.0  | 507.8  | 505.5  |
| 47.5° | 4056.6 | 2706.8 | 800.3  | 619.8  | 637.9  | 644.2  | 576.9  | 562.9  | 528.7  | 491.6  | 488.6  |
| 50°   | 4413.0 | 2923.2 | 816.0  | 597.2  | 605.9  | 583.8  | 568.2  | 555.4  | 520.0  | 483.4  | 479.4  |
| 52.5° | 4781.5 | 3161.8 | 847.4  | 566.4  | 574.0  | 549.6  | 564.7  | 553.7  | 514.8  | 465.5  | 462.0  |
| 55°   | 5143.7 | 3402.1 | 877.5  | 530.4  | 541.5  | 518.9  | 554.8  | 546.7  | 491.0  | 435.2  | 432.3  |
| 57.5° | 5511.6 | 3641.1 | 907.1  | 498.6  | 510.1  | 489.2  | 539.2  | 528.1  | 464.3  | 407.4  | 406.2  |
| 60°   | 5894.1 | 3873.3 | 921.1  | 467.8  | 475.9  | 462.0  | 515.4  | 496.2  | 434.1  | 378.9  | 377.2  |
| 62.5° | 6252.2 | 4066.6 | 898.4  | 437.0  | 442.2  | 436.4  | 484.0  | 458.5  | 404.0  | 347.1  | 346.4  |
| 65°   | 6611.4 | 4181.5 | 828.7  | 406.8  | 408.0  | 405.1  | 439.9  | 417.9  | 368.5  | 319.2  | 315.7  |
| 67.5° | 6937.0 | 4245.9 | 717.9  | 374.3  | 371.5  | 370.2  | 398.7  | 373.7  | 334.3  | 291.3  | 287.8  |
| 70°   | 7006.1 | 4082.2 | 548.5  | 336.0  | 336.0  | 333.1  | 353.4  | 327.9  | 296.5  | 261.8  | 260.6  |
| 72.5° | 6399.0 | 3434.0 | 389.4  | 292.5  | 297.1  | 291.3  | 308.2  | 286.7  | 258.3  | 235.0  | 228.1  |
| 75°   | 5160.0 | 2518.1 | 283.2  | 247.8  | 255.9  | 246.1  | 261.8  | 246.6  | 222.3  | 221.7  | 199.7  |
| 77.5° | 3545.4 | 1557.1 | 205.4  | 204.3  | 210.1  | 197.3  | 215.4  | 207.2  | 185.1  | 175.3  | 164.2  |
| 80°   | 1513.0 | 620.9  | 149.8  | 157.8  | 157.8  | 146.3  | 167.2  | 169.4  | 150.3  | 145.7  | 145.7  |
| 82.5° | 301.2  | 176.4  | 105.1  | 108.5  | 102.2  | 98.7   | 118.4  | 131.2  | 181.1  | 201.4  | 201.9  |
| 85°   | 90.5   | 65.0   | 63.2   | 59.2   | 52.3   | 52.8   | 69.6   | 131.7  | 162.5  | 92.9   | 80.1   |
| 87.5° | 24.9   | 16.3   | 16.8   | 13.3   | 11.1   | 14.6   | 23.8   | 99.8   | 54.5   | 23.2   | 19.8   |
| 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)