

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: P967772

Luminaire Tested: **NVN-SB5A-740-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967772
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5A-740-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18927.7 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

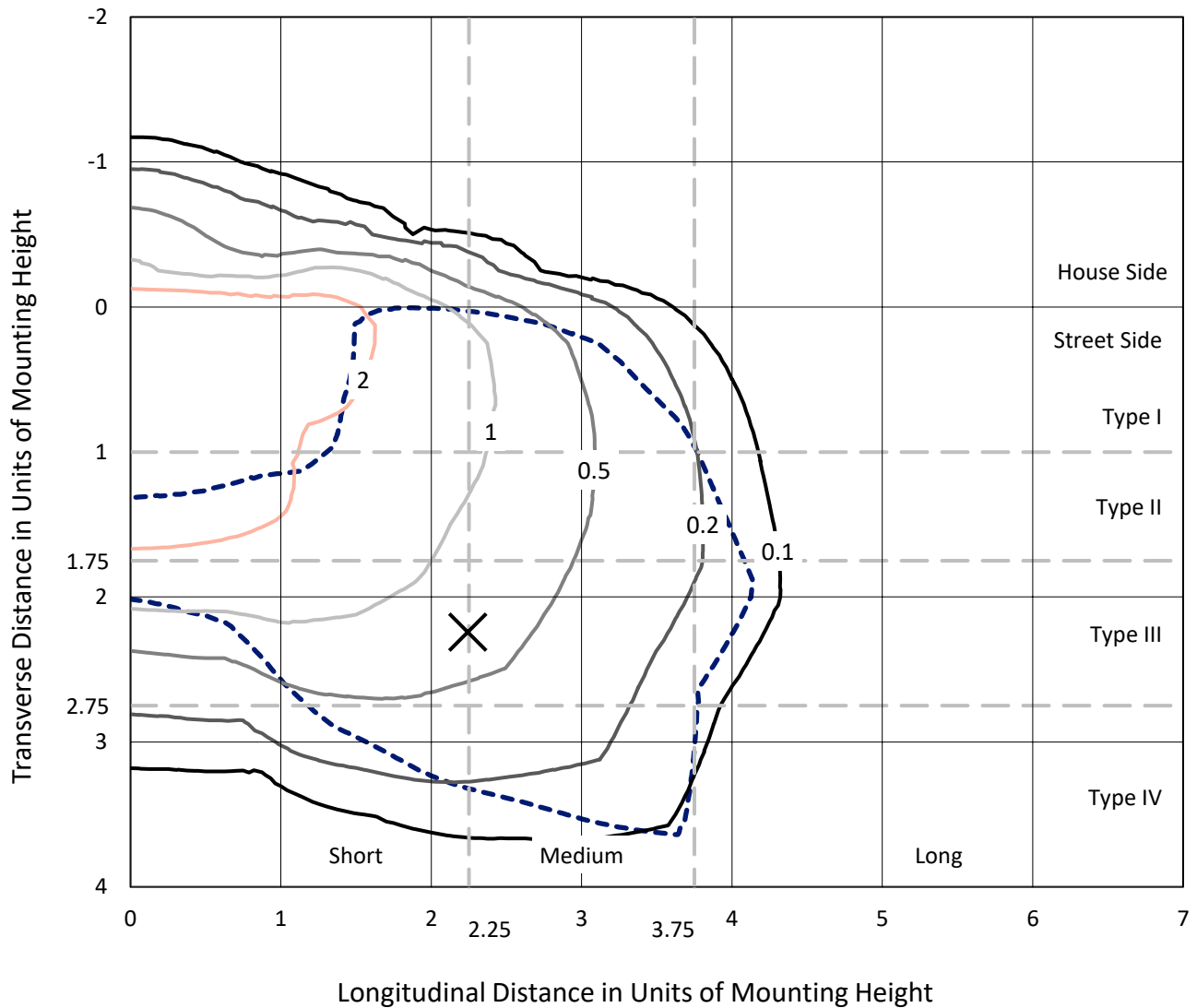
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

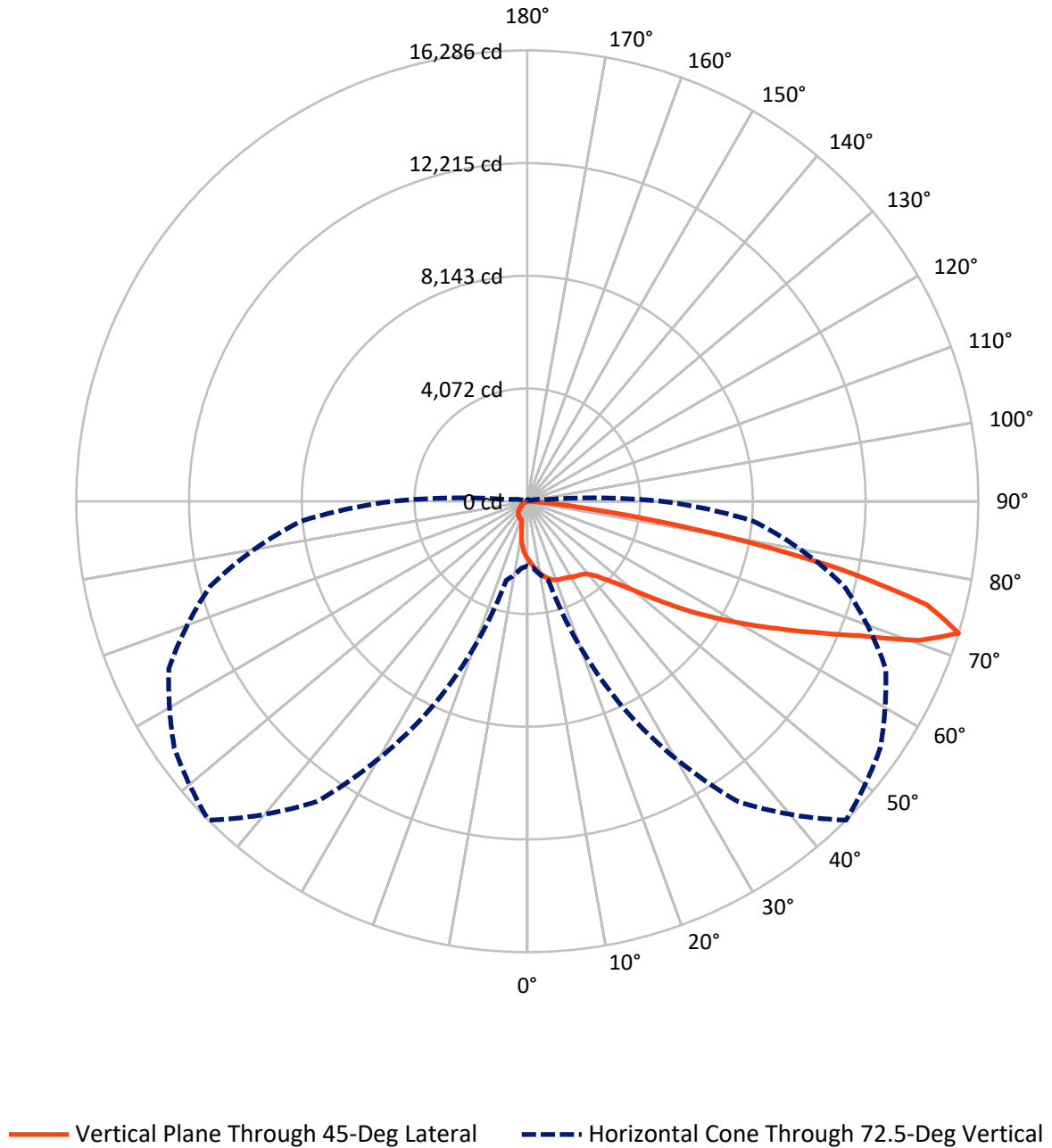
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1988.8 | 0.0 | 1988.8 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 16938.9 | 0.0 | 16938.9 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 18927.7 | 0.0 | 18927.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 195.4 | 1.0 |
| 10°-20° | 571.0 | 3.0 |
| 20°-30° | 937.7 | 5.0 |
| 30°-40° | 1329.8 | 7.0 |
| 40°-50° | 2198.0 | 11.6 |
| 50°-60° | 3948.5 | 20.9 |
| 60°-70° | 5482.7 | 29.0 |
| 70°-80° | 3977.0 | 21.0 |
| 80°-90° | 287.5 | 1.5 |
| 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° | 18927.7 | 100.0 |
| 0°-180° | 18927.7 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P967772

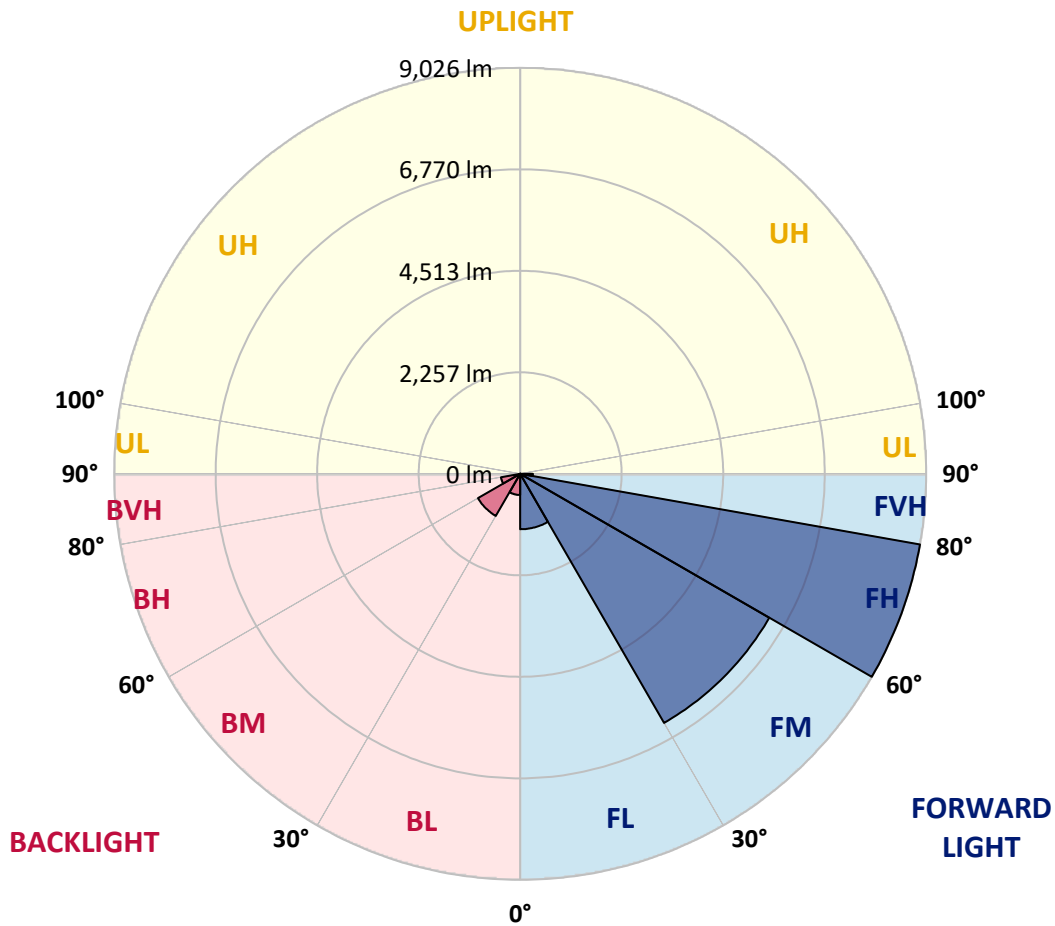
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1232.9 | 6.5 | | | |
| FM (30°-60°) | 6394.8 | 33.8 | | | |
| FH (60°-80°) | 9026.1 | 47.7 | | | G4/12000 |
| FVH (80°-90°) | 285.1 | 1.5 | | | G3/500 |
| BL (0°-30°) | 471.1 | 2.5 | B1/500 | | |
| BM (30°-60°) | 1081.6 | 5.7 | B2/2500 | | |
| BH (60°-80°) | 433.7 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.4 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type IV Short



REPORT NUMBER: P967772
 CATALOG NUMBER: NVN-SB5A-740-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2073.6 | 2073.6 | 2073.6 | 2073.6 | 2073.6 | 2073.6 | 2073.6 | 2073.6 | 2073.6 | 2073.6 | 2073.6 |
| 2.5° | 2264.7 | 2268.6 | 2266.1 | 2250.6 | 2224.8 | 2210.5 | 2202.7 | 2176.9 | 2160.1 | 2130.4 | 2099.4 |
| 5° | 2472.8 | 2488.3 | 2479.3 | 2448.2 | 2399.1 | 2364.3 | 2353.9 | 2300.9 | 2253.2 | 2197.6 | 2133.0 |
| 7.5° | 2693.7 | 2701.5 | 2684.7 | 2644.6 | 2578.7 | 2519.2 | 2510.2 | 2436.6 | 2360.4 | 2275.1 | 2187.2 |
| 10° | 2884.9 | 2894.0 | 2868.2 | 2809.9 | 2735.0 | 2661.4 | 2648.5 | 2567.1 | 2476.6 | 2372.0 | 2259.6 |
| 12.5° | 3045.1 | 3054.2 | 3020.6 | 2950.8 | 2868.2 | 2791.9 | 2779.0 | 2693.7 | 2594.2 | 2477.9 | 2338.4 |
| 15° | 3166.5 | 3183.3 | 3138.1 | 3063.2 | 2974.0 | 2897.8 | 2891.3 | 2807.4 | 2710.5 | 2581.3 | 2432.7 |
| 17.5° | 3237.6 | 3254.4 | 3211.7 | 3121.3 | 3045.1 | 2980.5 | 2972.7 | 2903.0 | 2812.6 | 2688.6 | 2524.5 |
| 20° | 3249.2 | 3264.7 | 3219.5 | 3140.7 | 3077.4 | 3025.7 | 3021.8 | 2971.5 | 2905.6 | 2786.7 | 2623.9 |
| 22.5° | 3214.3 | 3233.8 | 3192.4 | 3129.1 | 3085.1 | 3058.0 | 3052.9 | 3024.5 | 2987.0 | 2886.2 | 2717.0 |
| 25° | 3178.2 | 3193.7 | 3162.6 | 3107.1 | 3083.8 | 3081.3 | 3085.1 | 3080.0 | 3072.2 | 2987.0 | 2825.5 |
| 27.5° | 3175.6 | 3192.4 | 3157.5 | 3104.5 | 3091.6 | 3118.8 | 3122.7 | 3147.2 | 3153.6 | 3078.7 | 2930.2 |
| 30° | 3197.6 | 3209.2 | 3175.6 | 3120.0 | 3113.5 | 3175.6 | 3176.9 | 3220.9 | 3231.1 | 3156.2 | 3033.5 |
| 32.5° | 3245.4 | 3258.3 | 3224.6 | 3143.3 | 3134.2 | 3220.9 | 3224.6 | 3282.9 | 3299.6 | 3238.9 | 3142.0 |
| 35° | 3357.8 | 3373.3 | 3334.5 | 3207.8 | 3175.6 | 3263.4 | 3275.1 | 3343.6 | 3377.2 | 3326.7 | 3254.4 |
| 37.5° | 3638.1 | 3592.9 | 3539.9 | 3338.4 | 3269.9 | 3330.6 | 3350.0 | 3430.1 | 3489.5 | 3431.4 | 3388.8 |
| 40° | 4334.4 | 4192.4 | 4027.0 | 3560.5 | 3435.3 | 3474.0 | 3489.5 | 3569.7 | 3651.0 | 3594.2 | 3573.5 |
| 42.5° | 5379.6 | 5211.7 | 4945.5 | 4072.2 | 3684.6 | 3704.0 | 3715.6 | 3785.4 | 3900.3 | 3855.1 | 3860.4 |
| 45° | 6311.1 | 6250.4 | 5979.1 | 4945.5 | 4151.0 | 4055.4 | 4069.7 | 4105.7 | 4275.1 | 4258.3 | 4291.8 |
| 47.5° | 7026.9 | 6991.9 | 6782.7 | 5948.1 | 4939.1 | 4485.6 | 4525.7 | 4542.5 | 4786.6 | 4846.1 | 4936.5 |
| 50° | 7577.2 | 7564.3 | 7377.0 | 6839.5 | 5968.8 | 5120.0 | 5134.1 | 5098.0 | 5463.7 | 5610.8 | 5782.7 |
| 52.5° | 8096.6 | 8140.6 | 8002.3 | 7667.6 | 7068.2 | 5950.6 | 5948.1 | 5777.5 | 6271.1 | 6493.3 | 6786.5 |
| 55° | 8565.5 | 8581.1 | 8595.2 | 8512.6 | 8174.1 | 6896.4 | 6871.8 | 6592.8 | 7207.7 | 7437.7 | 7755.6 |
| 57.5° | 9006.2 | 9012.6 | 9139.2 | 9308.4 | 9325.2 | 7911.9 | 7866.7 | 7532.0 | 8231.0 | 8395.1 | 8590.1 |
| 60° | 9302.0 | 9331.7 | 9599.1 | 10069.4 | 10274.8 | 8959.6 | 8935.0 | 8594.0 | 9272.3 | 9348.5 | 9312.3 |
| 62.5° | 8875.7 | 9056.5 | 9730.9 | 10663.7 | 11171.4 | 10121.1 | 10109.5 | 9789.1 | 10367.8 | 10305.8 | 9995.7 |
| 65° | 7184.4 | 7490.7 | 8676.6 | 11065.5 | 12051.2 | 11418.2 | 11435.0 | 11093.9 | 11493.1 | 11291.6 | 10551.2 |
| 67.5° | 5025.7 | 5348.7 | 6751.7 | 11097.8 | 13034.4 | 12941.3 | 13038.3 | 12503.4 | 12688.2 | 12235.9 | 10683.1 |
| 70° | 3475.4 | 3642.0 | 4555.4 | 10402.7 | 13800.5 | 15039.5 | 15036.9 | 14234.6 | 13876.8 | 12666.2 | 10011.3 |
| 72.5° | 2337.1 | 2423.7 | 2958.6 | 8252.9 | 13237.3 | 16286.2 | 16211.3 | 15557.6 | 14277.2 | 11845.8 | 8179.3 |
| 75° | 985.7 | 1049.1 | 1369.5 | 4638.0 | 10472.4 | 14899.9 | 14697.1 | 13748.8 | 12685.6 | 9327.8 | 5103.2 |
| 77.5° | 312.6 | 339.8 | 540.1 | 1660.2 | 5768.5 | 11199.9 | 10985.3 | 8586.2 | 8502.3 | 4679.4 | 1865.6 |
| 80° | 148.5 | 173.1 | 303.6 | 666.7 | 2270.0 | 6091.5 | 6061.7 | 3895.2 | 3657.5 | 1263.5 | 374.6 |
| 82.5° | 64.6 | 76.3 | 168.0 | 356.6 | 1015.5 | 2173.0 | 2217.0 | 1325.5 | 1096.9 | 479.3 | 115.0 |
| 85° | 20.7 | 27.2 | 77.5 | 164.1 | 429.0 | 540.1 | 533.6 | 315.2 | 441.9 | 261.0 | 40.1 |
| 87.5° | 0.0 | 0.0 | 25.8 | 37.5 | 44.0 | 31.1 | 34.8 | 27.2 | 122.7 | 72.4 | 14.2 |
| 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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 CATALOG NUMBER: NVN-SB5A-740-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2073.6 | 2073.6 | 2073.6 | 2073.6 | 2073.6 | 2073.6 | 2073.6 | 2073.6 | 2073.6 | 2073.6 | 2073.6 |
| 2.5° | 2083.9 | 2063.2 | 2027.0 | 1993.4 | 1963.8 | 1934.1 | 1915.9 | 1890.1 | 1887.5 | 1887.5 | 1894.0 |
| 5° | 2098.1 | 2064.6 | 1999.9 | 1931.4 | 1852.7 | 1777.8 | 1702.7 | 1630.5 | 1607.2 | 1590.4 | 1598.2 |
| 7.5° | 2139.5 | 2086.5 | 1984.4 | 1853.9 | 1704.1 | 1540.0 | 1425.1 | 1301.0 | 1253.2 | 1227.3 | 1231.2 |
| 10° | 2198.9 | 2126.6 | 1971.5 | 1742.8 | 1500.0 | 1276.4 | 1112.3 | 978.0 | 926.3 | 904.4 | 904.4 |
| 12.5° | 2264.7 | 2175.7 | 1948.2 | 1604.6 | 1276.4 | 1009.0 | 848.8 | 786.8 | 779.0 | 779.0 | 779.0 |
| 15° | 2343.6 | 2235.0 | 1908.2 | 1441.8 | 1042.6 | 798.4 | 741.6 | 744.2 | 751.9 | 757.1 | 757.1 |
| 17.5° | 2424.9 | 2298.4 | 1844.9 | 1259.6 | 835.9 | 718.3 | 719.7 | 723.4 | 729.9 | 735.1 | 735.1 |
| 20° | 2512.8 | 2361.7 | 1761.0 | 1065.9 | 717.0 | 695.1 | 698.9 | 702.8 | 708.0 | 710.5 | 711.9 |
| 22.5° | 2607.1 | 2421.0 | 1661.4 | 876.0 | 677.0 | 675.7 | 677.0 | 680.8 | 687.3 | 687.3 | 689.9 |
| 25° | 2707.9 | 2487.0 | 1547.7 | 737.7 | 656.3 | 656.3 | 658.9 | 661.4 | 666.7 | 666.7 | 667.9 |
| 27.5° | 2811.3 | 2547.7 | 1427.6 | 665.3 | 638.3 | 636.9 | 636.9 | 640.8 | 643.4 | 644.7 | 646.0 |
| 30° | 2924.9 | 2618.8 | 1307.5 | 649.8 | 624.0 | 617.6 | 613.7 | 616.2 | 618.8 | 620.1 | 622.7 |
| 32.5° | 3041.3 | 2687.2 | 1200.2 | 656.3 | 609.8 | 598.2 | 585.3 | 582.7 | 582.7 | 587.8 | 591.7 |
| 35° | 3170.4 | 2762.2 | 1117.6 | 678.2 | 602.1 | 569.7 | 549.1 | 537.4 | 538.7 | 546.5 | 550.3 |
| 37.5° | 3325.4 | 2852.6 | 1056.8 | 697.6 | 596.9 | 537.4 | 503.9 | 489.6 | 480.6 | 489.6 | 487.1 |
| 40° | 3528.3 | 2985.7 | 1012.9 | 713.2 | 590.4 | 500.0 | 454.8 | 431.5 | 414.7 | 419.8 | 417.3 |
| 42.5° | 3826.7 | 3194.9 | 996.1 | 714.4 | 576.3 | 456.0 | 404.4 | 373.4 | 348.8 | 350.1 | 344.9 |
| 45° | 4245.3 | 3525.7 | 1082.6 | 697.6 | 545.2 | 408.3 | 351.4 | 310.1 | 294.6 | 290.7 | 285.6 |
| 47.5° | 4818.9 | 4007.6 | 1282.9 | 662.8 | 500.0 | 361.7 | 299.7 | 264.9 | 253.2 | 246.7 | 242.9 |
| 50° | 5587.7 | 4626.4 | 1505.1 | 624.0 | 454.8 | 317.9 | 257.1 | 235.1 | 227.3 | 220.9 | 219.7 |
| 52.5° | 6479.1 | 5254.4 | 1687.3 | 585.3 | 409.6 | 279.1 | 230.0 | 217.1 | 210.6 | 205.4 | 204.1 |
| 55° | 7296.9 | 5687.1 | 1676.9 | 543.9 | 365.6 | 248.0 | 210.6 | 202.8 | 195.1 | 189.9 | 187.4 |
| 57.5° | 7805.9 | 5747.9 | 1382.4 | 498.7 | 315.2 | 223.6 | 192.5 | 187.4 | 178.2 | 171.8 | 170.6 |
| 60° | 8039.8 | 5401.6 | 968.9 | 439.2 | 264.9 | 200.3 | 173.1 | 170.6 | 158.9 | 149.9 | 147.3 |
| 62.5° | 8082.3 | 4758.3 | 646.0 | 365.6 | 220.9 | 178.2 | 153.8 | 149.9 | 134.4 | 118.9 | 111.1 |
| 65° | 7909.3 | 3838.3 | 447.0 | 285.6 | 188.6 | 155.1 | 131.8 | 124.0 | 107.2 | 91.7 | 86.5 |
| 67.5° | 7361.4 | 2695.0 | 311.4 | 205.4 | 160.2 | 122.7 | 104.7 | 102.1 | 89.2 | 76.3 | 72.4 |
| 70° | 6357.7 | 1536.2 | 208.0 | 153.8 | 126.6 | 83.9 | 82.7 | 85.3 | 72.4 | 62.0 | 56.9 |
| 72.5° | 4874.5 | 702.8 | 129.1 | 112.4 | 86.5 | 56.9 | 65.9 | 67.1 | 55.6 | 46.5 | 41.3 |
| 75° | 2869.4 | 301.0 | 81.4 | 72.4 | 44.0 | 37.5 | 47.8 | 49.1 | 37.5 | 29.7 | 25.8 |
| 77.5° | 976.7 | 113.7 | 51.7 | 42.6 | 21.9 | 20.7 | 31.1 | 31.1 | 20.7 | 11.6 | 9.0 |
| 80° | 222.2 | 42.6 | 25.8 | 16.8 | 10.4 | 9.0 | 10.4 | 9.0 | 5.1 | 1.3 | 0.0 |
| 82.5° | 63.3 | 16.8 | 10.4 | 6.5 | 3.9 | 3.9 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 18.0 | 7.8 | 2.6 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 7.8 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)