

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: P967764

Luminaire Tested: **NVN-SB5A-740-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5A-740-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24901.4 lumens
Efficiency: N/A
Efficacy: 175.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

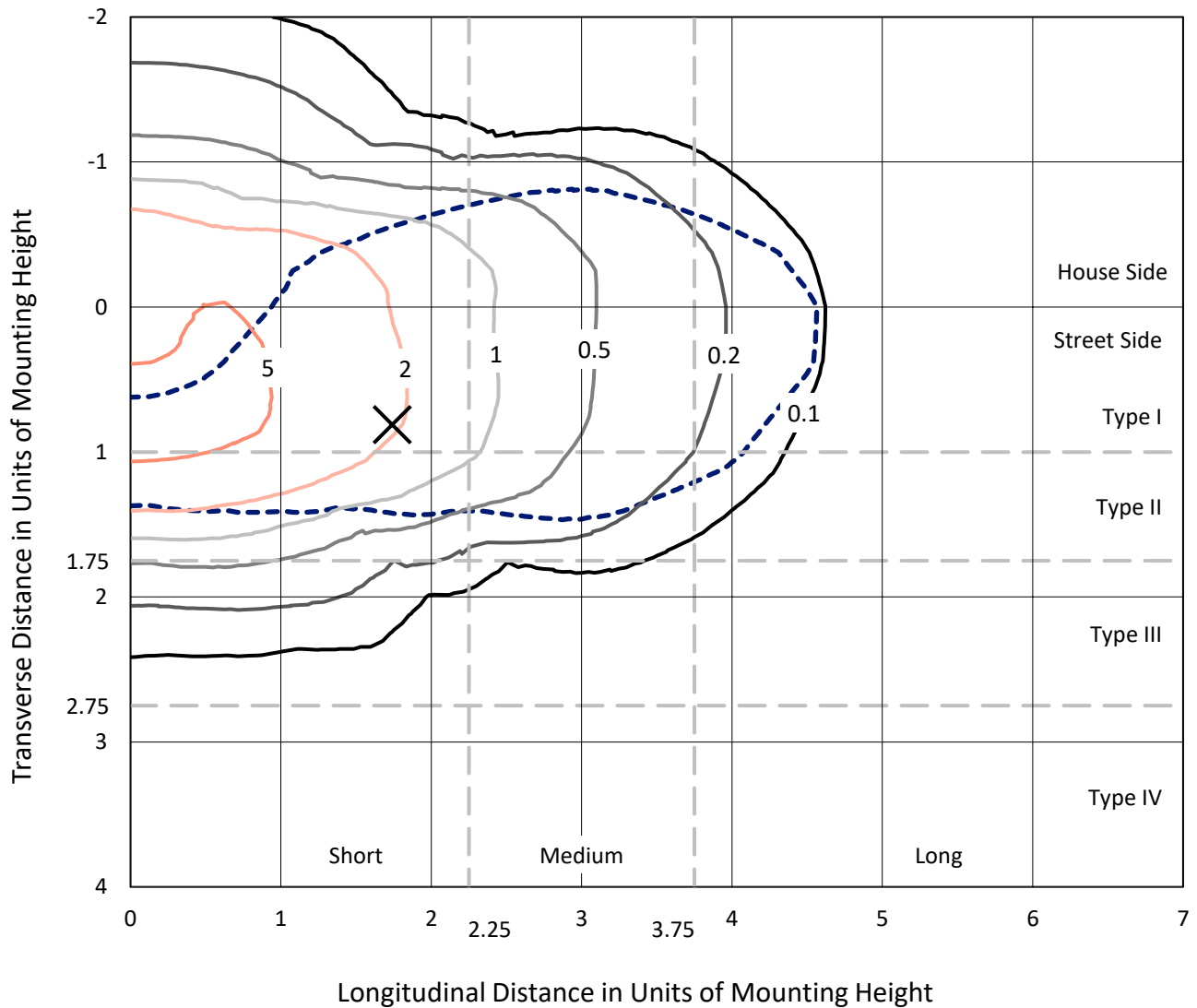
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P967764
 CATALOG NUMBER: NVN-SB5A-740-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

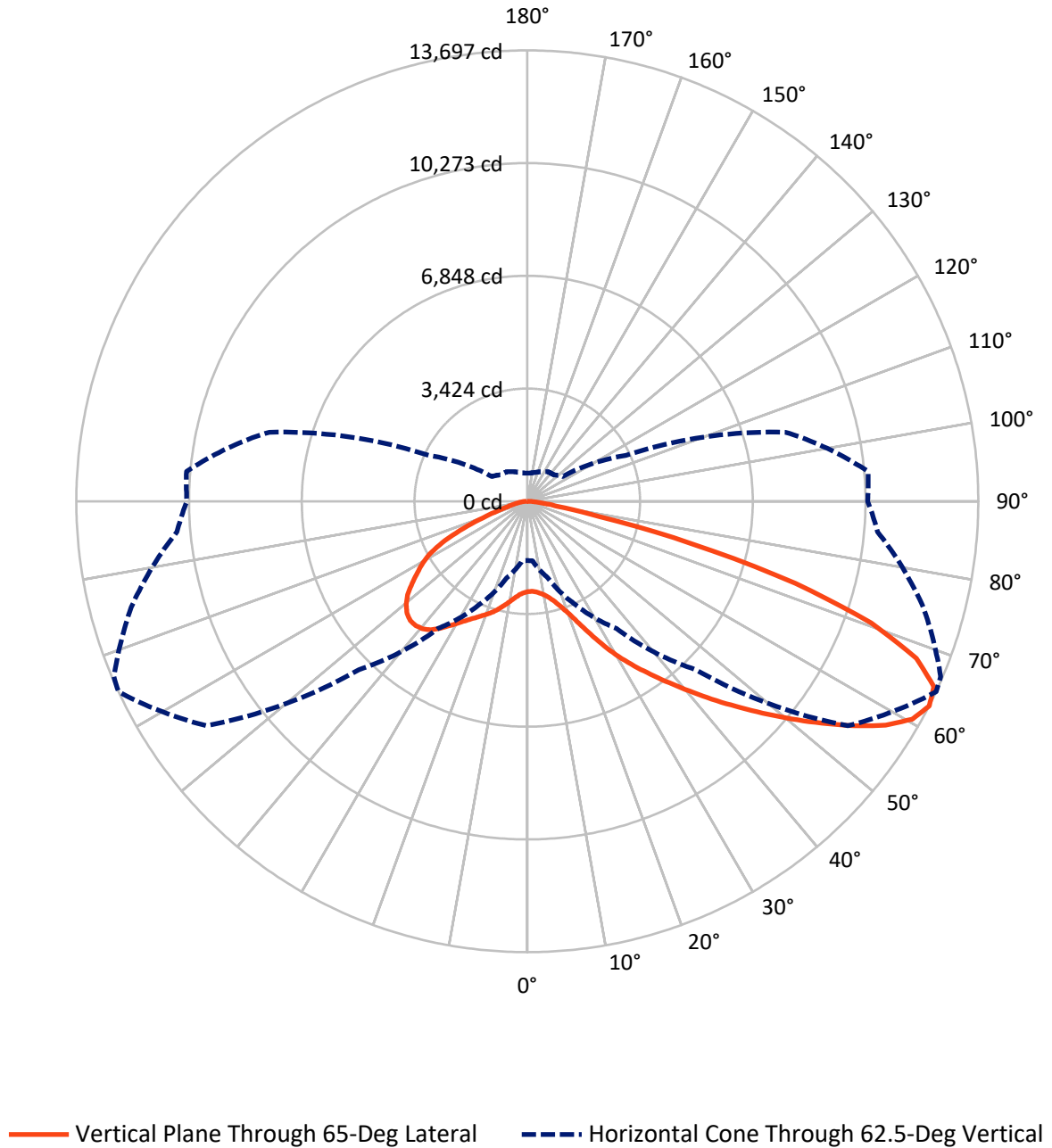
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - N/A

REPORT NUMBER: P967764
CATALOG NUMBER: NVN-SB5A-740-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P967764
 CATALOG NUMBER: NVN-SB5A-740-U-T2U

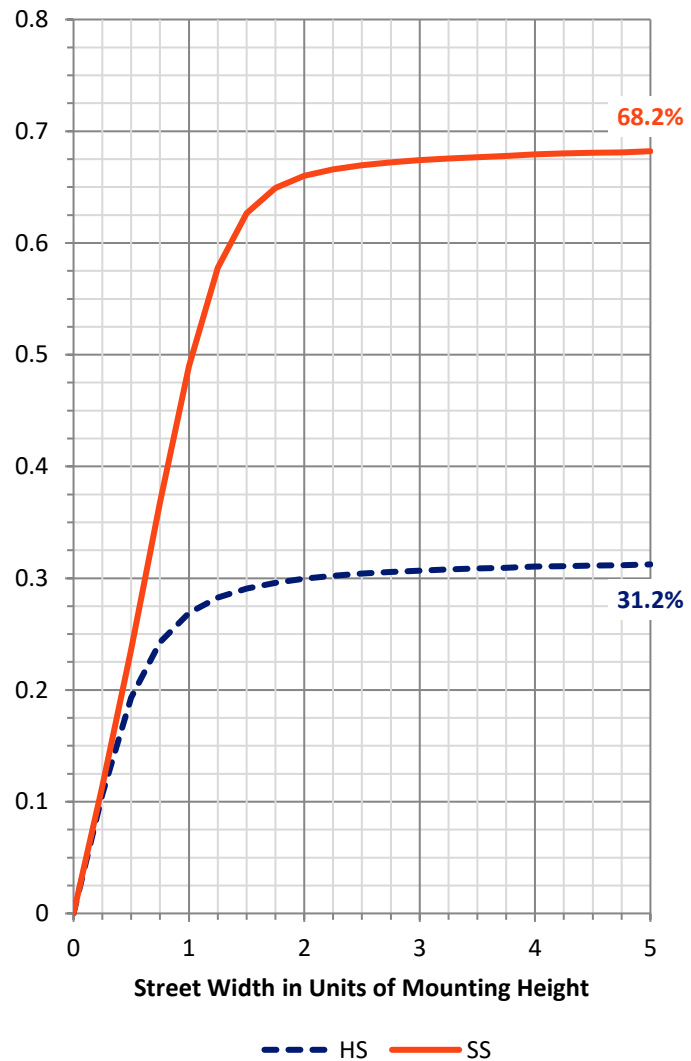
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7857.8 | 0.0 | 7857.8 |
| | % Fixture | 31.6 | 0.0 | 31.6 |
| Street Side | Lumens | 17043.6 | 0.0 | 17043.6 |
| | % Fixture | 68.4 | 0.0 | 68.4 |
| Total | Lumens | 24901.4 | 0.0 | 24901.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 273.6 | 1.1 |
| 10°-20° | 927.7 | 3.7 |
| 20°-30° | 1881.1 | 7.6 |
| 30°-40° | 3255.1 | 13.1 |
| 40°-50° | 4926.0 | 19.8 |
| 50°-60° | 5775.4 | 23.2 |
| 60°-70° | 4842.0 | 19.4 |
| 70°-80° | 2673.2 | 10.7 |
| 80°-90° | 347.2 | 1.4 |
| 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° | 24901.4 | 100.0 |
| 0°-180° | 24901.4 | 100.0 |



REPORT NUMBER: P967764

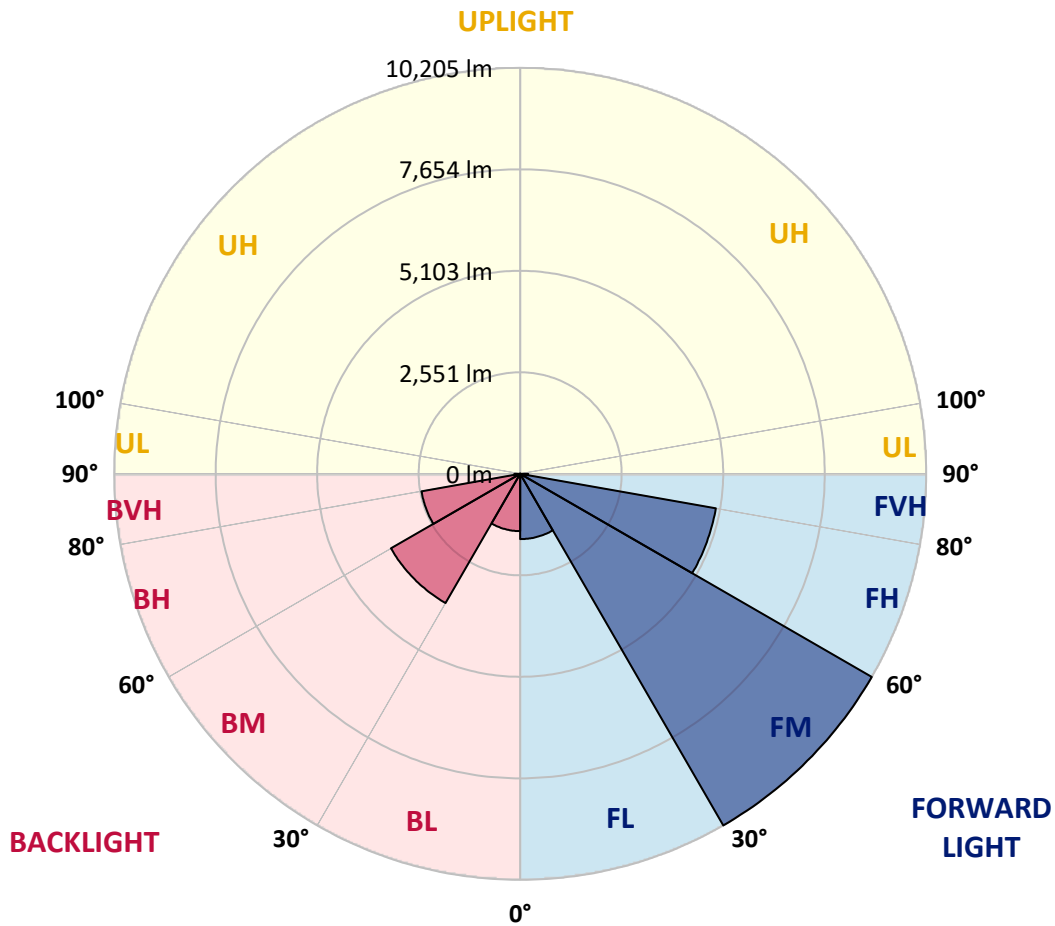
CATALOG NUMBER: NVN-SB5A-740-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1641.3 | 6.6 | | | |
| FM (30°-60°) | 10205.4 | 41.0 | | | |
| FH (60°-80°) | 4994.5 | 20.1 | | | G2/5000 |
| FVH (80°-90°) | 202.4 | 0.8 | | | G2/225 |
| BL (0°-30°) | 1441.0 | 5.8 | B3/2500 | | |
| BM (30°-60°) | 3751.2 | 15.1 | B3/5000 | | |
| BH (60°-80°) | 2520.7 | 10.1 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 144.9 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4

Type II Short



REPORT NUMBER: P967764

CATALOG NUMBER: NVN-SB5A-740-U-T2U

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2744.0 | 2744.0 | 2744.0 | 2744.0 | 2744.0 | 2744.0 | 2744.0 | 2744.0 | 2744.0 | 2744.0 | 2744.0 |
| 2.5° | 2725.9 | 2718.2 | 2724.7 | 2724.7 | 2727.2 | 2725.9 | 2735.0 | 2737.6 | 2741.5 | 2749.2 | 2749.2 |
| 5° | 2698.8 | 2697.5 | 2709.2 | 2719.4 | 2729.8 | 2738.9 | 2750.5 | 2767.3 | 2769.9 | 2778.9 | 2790.6 |
| 7.5° | 2689.8 | 2682.0 | 2700.1 | 2713.0 | 2737.6 | 2759.5 | 2790.6 | 2819.0 | 2830.5 | 2834.4 | 2856.4 |
| 10° | 2759.5 | 2746.6 | 2763.4 | 2771.2 | 2791.8 | 2813.8 | 2849.9 | 2895.2 | 2908.1 | 2923.6 | 2948.1 |
| 12.5° | 2878.4 | 2864.2 | 2888.8 | 2900.3 | 2919.7 | 2939.1 | 2963.7 | 3007.6 | 3014.0 | 3042.4 | 3065.7 |
| 15° | 3041.2 | 3024.4 | 3039.8 | 3054.1 | 3086.4 | 3104.4 | 3129.0 | 3171.7 | 3171.7 | 3193.6 | 3210.4 |
| 17.5° | 3262.1 | 3240.1 | 3251.7 | 3256.9 | 3277.5 | 3304.7 | 3346.0 | 3383.5 | 3402.9 | 3395.1 | 3371.8 |
| 20° | 3591.5 | 3564.3 | 3564.3 | 3538.5 | 3530.8 | 3552.8 | 3607.0 | 3658.7 | 3679.3 | 3639.4 | 3582.5 |
| 22.5° | 4086.4 | 4047.5 | 4025.6 | 3937.7 | 3902.9 | 3905.5 | 3959.7 | 4023.0 | 4039.8 | 3968.8 | 3840.9 |
| 25° | 4715.5 | 4654.7 | 4625.0 | 4495.9 | 4417.0 | 4348.6 | 4391.2 | 4472.6 | 4495.9 | 4408.0 | 4201.3 |
| 27.5° | 5344.7 | 5348.6 | 5320.1 | 5165.1 | 5034.6 | 4909.2 | 4887.3 | 4972.6 | 4997.1 | 4897.7 | 4641.8 |
| 30° | 6227.0 | 6135.2 | 6081.0 | 5895.0 | 5708.9 | 5533.3 | 5442.9 | 5477.7 | 5484.2 | 5365.3 | 5068.2 |
| 32.5° | 6987.9 | 6964.7 | 6848.4 | 6685.7 | 6446.6 | 6171.4 | 6020.3 | 5964.8 | 5954.4 | 5785.2 | 5432.5 |
| 35° | 7854.8 | 7841.9 | 7719.2 | 7525.3 | 7267.0 | 6884.6 | 6612.0 | 6453.1 | 6440.2 | 6202.5 | 5792.9 |
| 37.5° | 8735.9 | 8735.9 | 8615.7 | 8403.9 | 8136.4 | 7658.5 | 7243.8 | 6991.8 | 6950.5 | 6640.5 | 6159.8 |
| 40° | 9438.7 | 9396.1 | 9418.0 | 9328.9 | 9022.7 | 8515.0 | 7945.3 | 7579.7 | 7524.1 | 7152.0 | 6550.0 |
| 42.5° | 9837.9 | 9823.7 | 9955.5 | 10054.9 | 9929.6 | 9524.0 | 8717.8 | 8216.6 | 8139.0 | 7715.3 | 6999.6 |
| 45° | 9927.0 | 9911.5 | 10146.7 | 10511.0 | 10686.6 | 10520.1 | 9557.6 | 8887.1 | 8792.8 | 8304.4 | 7481.5 |
| 47.5° | 9721.6 | 9690.7 | 10035.6 | 10610.5 | 11173.7 | 11467.0 | 10467.1 | 9614.4 | 9477.5 | 8878.0 | 7976.2 |
| 50° | 9104.2 | 9074.4 | 9596.4 | 10359.9 | 11337.8 | 12110.4 | 11454.1 | 10385.7 | 10176.4 | 9492.9 | 8476.2 |
| 52.5° | 7761.8 | 7776.1 | 8593.8 | 9642.8 | 11122.1 | 12510.8 | 12304.2 | 11198.3 | 10946.4 | 10122.1 | 8945.2 |
| 55° | 6046.2 | 6077.1 | 7082.2 | 8237.2 | 10259.1 | 12450.2 | 12884.2 | 12035.4 | 11784.8 | 10713.8 | 9429.7 |
| 57.5° | 4329.2 | 4466.1 | 5407.9 | 6551.3 | 8601.6 | 11487.7 | 13010.8 | 12831.3 | 12588.4 | 11359.8 | 9903.8 |
| 60° | 2806.0 | 2830.5 | 3799.5 | 4951.9 | 6550.0 | 9777.2 | 12753.8 | 13434.6 | 13244.6 | 12018.6 | 10300.4 |
| 62.5° | 1798.4 | 1815.2 | 2405.6 | 3463.6 | 4714.2 | 7233.4 | 11888.2 | 13696.9 | 13638.8 | 12454.1 | 10681.5 |
| 65° | 1321.6 | 1308.7 | 1616.2 | 2289.2 | 3175.6 | 4461.0 | 10207.4 | 13570.3 | 13685.2 | 12726.6 | 10996.7 |
| 67.5° | 1103.3 | 1085.2 | 1236.4 | 1585.2 | 2339.7 | 2533.4 | 7552.5 | 12747.3 | 13168.5 | 12695.6 | 11228.1 |
| 70° | 1005.1 | 989.6 | 1081.4 | 1176.9 | 1825.4 | 1696.3 | 3807.3 | 11082.0 | 11730.5 | 12342.9 | 11190.5 |
| 72.5° | 851.4 | 824.2 | 949.6 | 1045.2 | 1419.8 | 1300.9 | 1573.6 | 8512.4 | 9303.1 | 11212.5 | 10663.5 |
| 75° | 660.2 | 642.1 | 749.3 | 919.8 | 1067.1 | 1015.5 | 994.8 | 5169.0 | 6031.9 | 8671.3 | 9328.9 |
| 77.5° | 523.3 | 498.7 | 596.9 | 717.0 | 959.9 | 766.1 | 724.8 | 2226.0 | 3081.3 | 5535.8 | 6980.2 |
| 80° | 394.0 | 372.1 | 453.5 | 567.1 | 737.7 | 577.5 | 468.9 | 908.3 | 1161.4 | 2804.7 | 3510.1 |
| 82.5° | 280.3 | 261.0 | 316.5 | 415.9 | 496.1 | 518.0 | 288.1 | 509.0 | 572.4 | 1081.4 | 784.2 |
| 85° | 179.6 | 168.0 | 211.9 | 261.0 | 315.2 | 333.3 | 175.7 | 266.1 | 292.0 | 445.7 | 326.9 |
| 87.5° | 98.2 | 80.1 | 113.7 | 121.5 | 146.0 | 133.0 | 83.9 | 96.9 | 104.7 | 161.5 | 138.3 |
| 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: P967764
 CATALOG NUMBER: NVN-SB5A-740-U-T2U

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2744.0 | 2744.0 | 2744.0 | 2744.0 | 2744.0 | 2744.0 | 2744.0 | 2744.0 | 2744.0 | 2744.0 | 2744.0 |
| 2.5° | 2754.4 | 2758.3 | 2771.2 | 2775.0 | 2784.1 | 2795.7 | 2803.5 | 2811.2 | 2811.2 | 2819.0 | 2819.0 |
| 5° | 2791.8 | 2800.9 | 2828.0 | 2842.2 | 2865.5 | 2888.8 | 2902.9 | 2919.7 | 2930.1 | 2935.2 | 2937.9 |
| 7.5° | 2864.2 | 2878.4 | 2917.1 | 2941.6 | 2981.7 | 3014.0 | 3035.9 | 3059.2 | 3064.4 | 3078.6 | 3073.5 |
| 10° | 2962.4 | 2979.2 | 3023.0 | 3069.6 | 3117.3 | 3157.4 | 3178.1 | 3194.9 | 3201.4 | 3203.9 | 3197.5 |
| 12.5° | 3074.8 | 3099.3 | 3156.2 | 3213.0 | 3263.4 | 3298.2 | 3303.4 | 3299.6 | 3281.4 | 3266.0 | 3266.0 |
| 15° | 3213.0 | 3234.9 | 3298.2 | 3360.3 | 3409.4 | 3415.8 | 3383.5 | 3362.8 | 3340.9 | 3337.0 | 3337.0 |
| 17.5° | 3378.4 | 3390.0 | 3448.1 | 3508.9 | 3512.7 | 3490.7 | 3443.0 | 3423.6 | 3402.9 | 3388.6 | 3390.0 |
| 20° | 3570.9 | 3567.0 | 3608.3 | 3634.1 | 3607.0 | 3539.8 | 3467.5 | 3435.2 | 3414.5 | 3397.8 | 3399.0 |
| 22.5° | 3800.8 | 3771.1 | 3766.0 | 3759.5 | 3687.1 | 3546.3 | 3448.1 | 3406.8 | 3374.5 | 3351.2 | 3358.9 |
| 25° | 4135.4 | 4021.7 | 3942.9 | 3899.0 | 3736.2 | 3511.4 | 3386.1 | 3294.4 | 3233.7 | 3193.6 | 3209.1 |
| 27.5° | 4554.0 | 4362.8 | 4163.9 | 4056.6 | 3736.2 | 3440.4 | 3236.2 | 3087.7 | 2988.2 | 2946.9 | 2967.5 |
| 30° | 4953.2 | 4752.9 | 4459.7 | 4246.5 | 3727.2 | 3324.1 | 2994.6 | 2787.9 | 2671.7 | 2630.4 | 2654.9 |
| 32.5° | 5294.2 | 5075.9 | 4773.6 | 4454.5 | 3705.2 | 3135.5 | 2694.9 | 2466.3 | 2353.9 | 2304.8 | 2329.3 |
| 35° | 5610.7 | 5378.3 | 5088.8 | 4683.2 | 3647.1 | 2859.0 | 2365.5 | 2191.0 | 2065.8 | 1987.0 | 2012.8 |
| 37.5° | 5935.1 | 5658.6 | 5387.3 | 4889.9 | 3542.4 | 2536.1 | 2112.3 | 1963.7 | 1816.4 | 1710.5 | 1738.9 |
| 40° | 6287.8 | 5957.0 | 5706.4 | 5012.7 | 3370.6 | 2228.6 | 1915.9 | 1780.2 | 1623.9 | 1511.6 | 1533.5 |
| 42.5° | 6699.8 | 6314.8 | 6061.6 | 5075.9 | 3135.5 | 2010.2 | 1788.0 | 1655.0 | 1507.7 | 1415.9 | 1434.0 |
| 45° | 7130.1 | 6708.9 | 6386.0 | 5074.7 | 2873.2 | 1908.1 | 1746.7 | 1614.9 | 1452.1 | 1356.5 | 1372.0 |
| 47.5° | 7580.9 | 7121.0 | 6666.3 | 4992.0 | 2645.8 | 1922.4 | 1723.4 | 1528.4 | 1348.8 | 1255.7 | 1268.6 |
| 50° | 8033.1 | 7571.9 | 6937.6 | 4836.9 | 2549.0 | 1891.3 | 1636.8 | 1406.9 | 1195.0 | 1111.0 | 1116.2 |
| 52.5° | 8481.4 | 8051.2 | 7171.4 | 4616.0 | 2450.8 | 1776.4 | 1525.7 | 1249.3 | 1131.7 | 1073.6 | 1073.6 |
| 55° | 8932.3 | 8525.3 | 7425.9 | 4294.3 | 2205.3 | 1642.0 | 1339.7 | 1189.8 | 1081.4 | 1028.4 | 1023.2 |
| 57.5° | 9384.5 | 9073.1 | 7667.5 | 3972.6 | 1896.6 | 1476.6 | 1237.7 | 1117.5 | 1030.9 | 985.7 | 978.0 |
| 60° | 9854.7 | 9699.7 | 7916.8 | 3676.8 | 1591.6 | 1264.7 | 1162.8 | 1059.3 | 971.5 | 921.2 | 917.3 |
| 62.5° | 10339.2 | 10389.6 | 8112.0 | 3295.7 | 1311.3 | 1135.6 | 1095.5 | 989.6 | 904.4 | 856.5 | 855.3 |
| 65° | 10827.5 | 11054.9 | 8239.8 | 2767.3 | 1063.2 | 1012.9 | 1023.2 | 913.4 | 826.9 | 785.5 | 784.2 |
| 67.5° | 11195.7 | 11534.2 | 8203.7 | 2094.2 | 872.1 | 896.6 | 932.7 | 833.3 | 751.9 | 719.6 | 720.9 |
| 70° | 11237.1 | 11477.3 | 7847.1 | 1434.0 | 729.9 | 782.9 | 832.0 | 754.5 | 670.5 | 647.3 | 648.5 |
| 72.5° | 10686.6 | 10702.2 | 6853.6 | 936.6 | 617.6 | 687.3 | 726.0 | 674.3 | 593.0 | 569.7 | 568.5 |
| 75° | 9243.7 | 8850.9 | 5032.0 | 617.6 | 516.8 | 590.4 | 626.6 | 590.4 | 511.6 | 516.8 | 498.7 |
| 77.5° | 7003.4 | 6268.4 | 3055.4 | 439.2 | 431.5 | 496.1 | 545.2 | 519.4 | 452.1 | 507.7 | 447.0 |
| 80° | 3608.3 | 3391.3 | 1362.9 | 328.1 | 341.0 | 396.6 | 448.3 | 414.7 | 357.8 | 341.0 | 311.4 |
| 82.5° | 826.9 | 961.1 | 537.4 | 235.1 | 246.7 | 285.5 | 342.3 | 311.4 | 257.1 | 217.0 | 214.4 |
| 85° | 289.4 | 316.5 | 237.7 | 147.3 | 144.7 | 178.2 | 232.6 | 208.0 | 174.5 | 139.5 | 147.3 |
| 87.5° | 91.7 | 120.1 | 89.2 | 59.4 | 62.0 | 80.1 | 107.2 | 98.2 | 81.4 | 53.0 | 55.6 |
| 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)