

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: P966221

Luminaire Tested: **NVN-SB4B-750-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966221
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB4B-750-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24189 lumens
Efficiency: N/A
Efficacy: 164.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

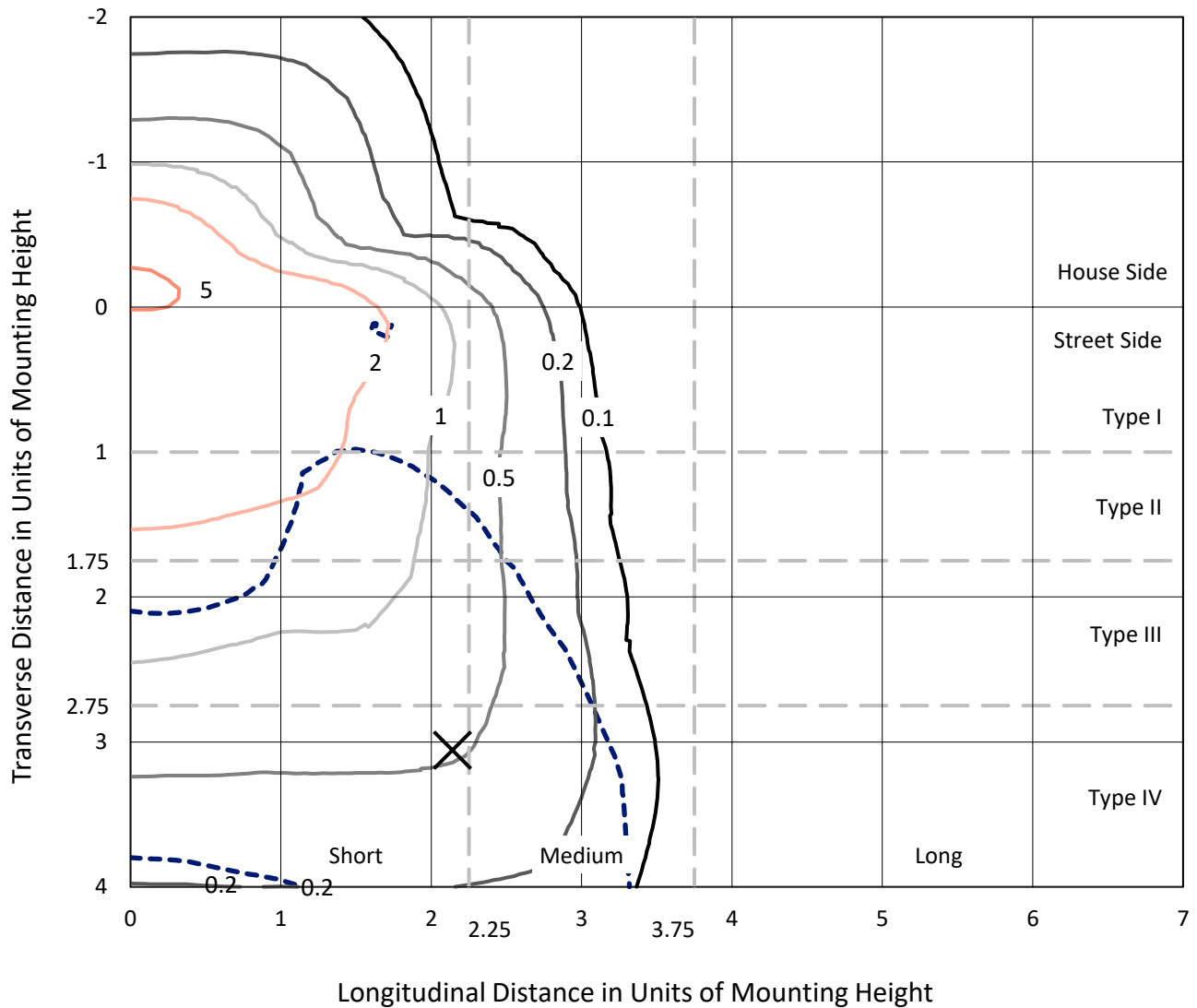
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

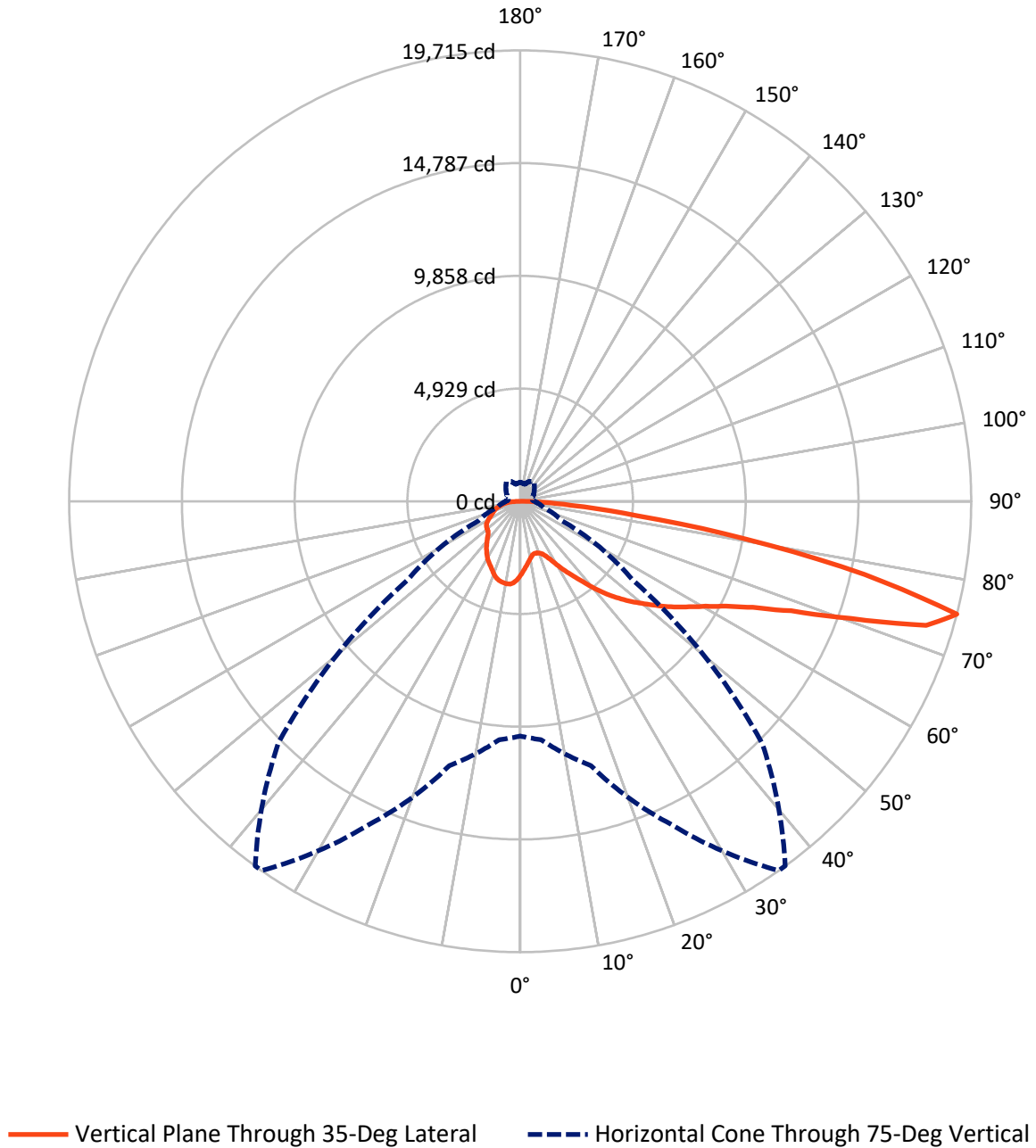
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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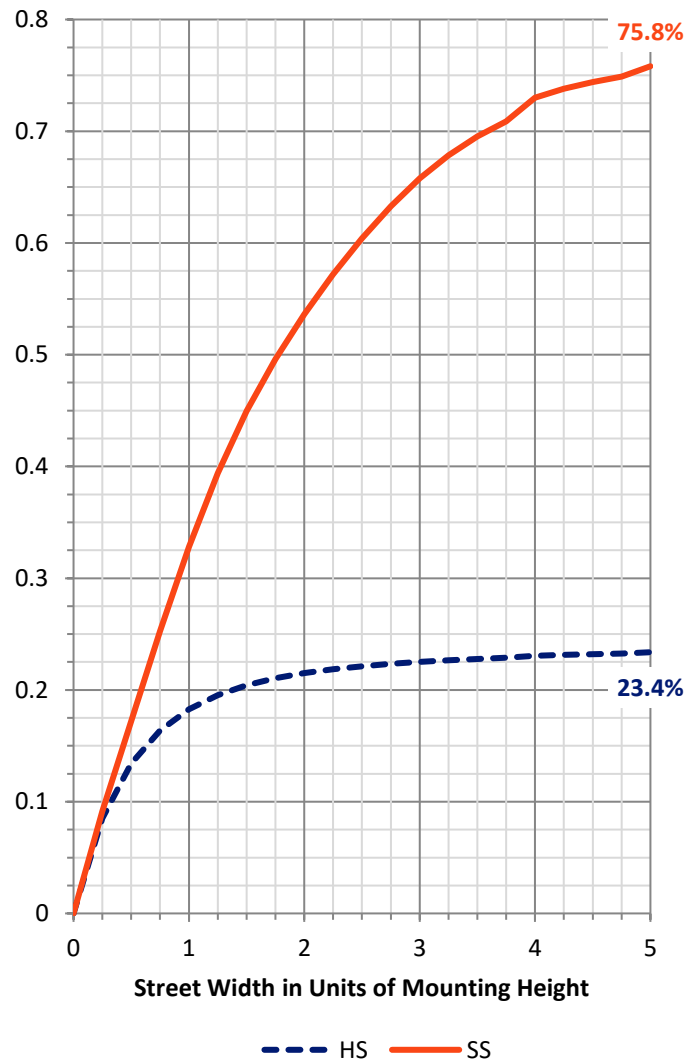
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5756.4 | 0.0 | 5756.4 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 18432.6 | 0.0 | 18432.6 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 24189.0 | 0.0 | 24189.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 305.2 | 1.3 |
| 10°-20° | 880.3 | 3.6 |
| 20°-30° | 1478.2 | 6.1 |
| 30°-40° | 2297.4 | 9.5 |
| 40°-50° | 3409.9 | 14.1 |
| 50°-60° | 4707.6 | 19.5 |
| 60°-70° | 5711.4 | 23.6 |
| 70°-80° | 4720.1 | 19.5 |
| 80°-90° | 678.9 | 2.8 |
| 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° | 24189.0 | 100.0 |
| 0°-180° | 24189.0 | 100.0 |

Coefficient of Utilization



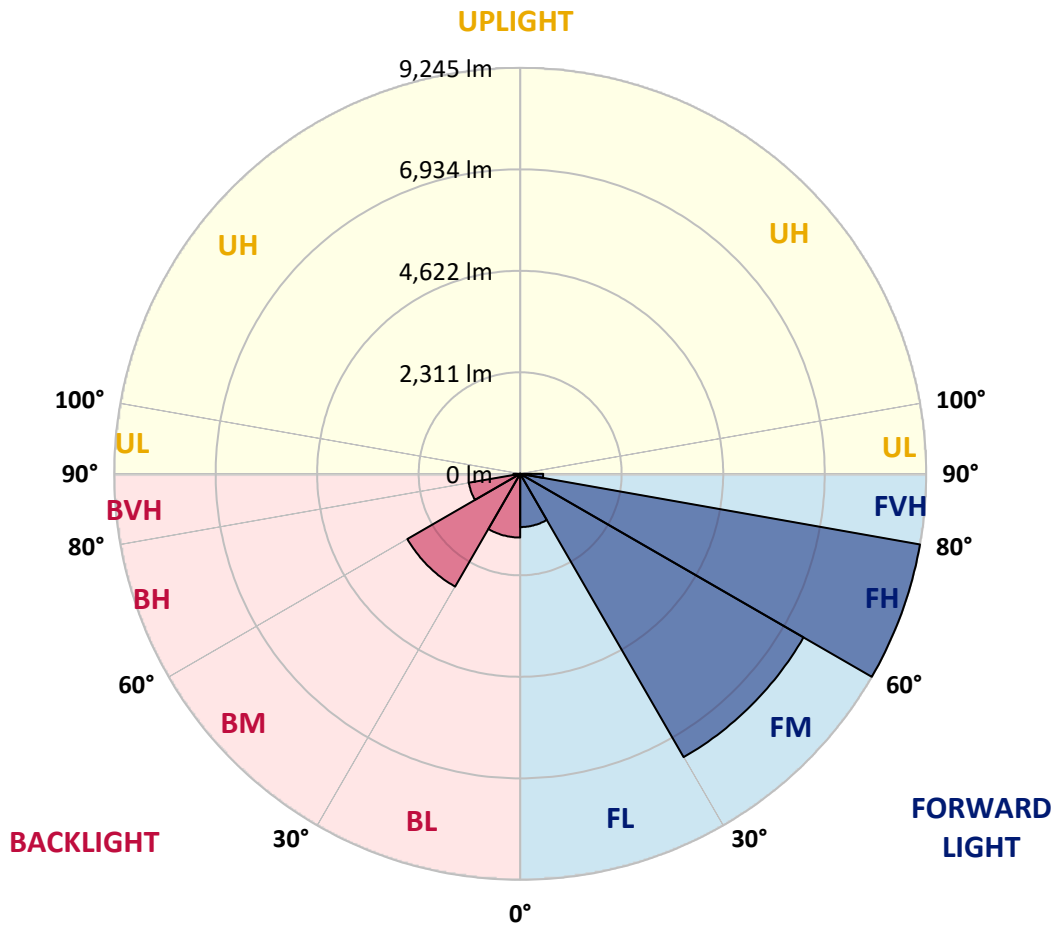
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1213.0 | 5.0 | | | |
| FM (30°-60°) | 7448.9 | 30.8 | | | |
| FH (60°-80°) | 9244.7 | 38.2 | | | G4/12000 |
| FVH (80°-90°) | 526.0 | 2.2 | | | G4/750 |
| BL (0°-30°) | 1450.7 | 6.0 | B3/2500 | | |
| BM (30°-60°) | 2966.0 | 12.3 | B3/5000 | | |
| BH (60°-80°) | 1186.8 | 4.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 152.9 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|---------|
| 0° | 3223.3 | 3223.3 | 3223.3 | 3223.3 | 3223.3 | 3223.3 | 3223.3 | 3223.3 | 3223.3 | 3223.3 | 3223.3 |
| 2.5° | 2972.3 | 2990.5 | 2998.4 | 2994.5 | 3014.1 | 3011.6 | 3038.9 | 3073.0 | 3120.0 | 3165.8 | 3232.5 |
| 5° | 2743.4 | 2763.1 | 2780.0 | 2795.8 | 2833.7 | 2845.4 | 2888.6 | 2953.9 | 3040.3 | 3127.9 | 3237.8 |
| 7.5° | 2530.3 | 2547.3 | 2573.5 | 2602.2 | 2666.3 | 2678.0 | 2750.0 | 2852.0 | 2972.3 | 3100.4 | 3252.1 |
| 10° | 2356.4 | 2373.4 | 2400.9 | 2433.6 | 2513.3 | 2527.6 | 2619.2 | 2755.2 | 2912.1 | 3074.3 | 3267.8 |
| 12.5° | 2281.9 | 2287.1 | 2302.8 | 2335.5 | 2404.8 | 2413.9 | 2514.6 | 2670.2 | 2853.3 | 3054.7 | 3291.4 |
| 15° | 2278.0 | 2288.4 | 2289.6 | 2306.7 | 2364.3 | 2368.2 | 2461.0 | 2615.3 | 2816.7 | 3050.7 | 3326.6 |
| 17.5° | 2317.1 | 2325.0 | 2313.2 | 2323.7 | 2372.1 | 2378.6 | 2451.8 | 2589.1 | 2804.9 | 3067.7 | 3386.8 |
| 20° | 2421.8 | 2428.3 | 2393.0 | 2378.6 | 2413.9 | 2419.1 | 2491.1 | 2606.2 | 2816.7 | 3103.1 | 3469.2 |
| 22.5° | 2644.1 | 2648.0 | 2561.7 | 2502.8 | 2505.4 | 2508.1 | 2570.8 | 2675.5 | 2862.4 | 3167.1 | 3573.8 |
| 25° | 2990.5 | 2988.0 | 2850.6 | 2736.9 | 2671.6 | 2657.1 | 2699.0 | 2787.9 | 2939.6 | 3252.1 | 3708.4 |
| 27.5° | 3395.9 | 3376.4 | 3239.0 | 3069.1 | 2926.5 | 2905.6 | 2896.4 | 2934.4 | 3049.5 | 3364.6 | 3873.3 |
| 30° | 3853.6 | 3835.3 | 3687.5 | 3465.2 | 3267.8 | 3233.8 | 3147.5 | 3127.9 | 3212.9 | 3517.6 | 4102.0 |
| 32.5° | 4355.7 | 4344.0 | 4167.4 | 3898.1 | 3633.9 | 3594.7 | 3449.5 | 3397.3 | 3464.0 | 3749.0 | 4421.1 |
| 35° | 4776.8 | 4766.4 | 4619.9 | 4342.7 | 4019.7 | 3971.4 | 3823.6 | 3764.7 | 3798.8 | 4045.9 | 4838.3 |
| 37.5° | 5157.4 | 5152.2 | 5026.6 | 4808.2 | 4474.7 | 4415.9 | 4249.9 | 4230.3 | 4223.7 | 4436.8 | 5344.3 |
| 40° | 5510.4 | 5497.4 | 5366.6 | 5251.5 | 5004.4 | 4950.8 | 4804.3 | 4787.3 | 4737.5 | 4918.1 | 5917.1 |
| 42.5° | 5901.4 | 5867.4 | 5677.8 | 5624.2 | 5557.4 | 5513.1 | 5425.4 | 5428.0 | 5318.2 | 5460.7 | 6523.8 |
| 45° | 6220.4 | 6200.8 | 6006.0 | 5974.6 | 6046.6 | 6028.2 | 6104.1 | 6123.7 | 5910.6 | 6029.6 | 7154.1 |
| 47.5° | 6563.1 | 6544.7 | 6380.0 | 6357.8 | 6552.6 | 6557.8 | 6825.9 | 6832.4 | 6488.6 | 6620.6 | 7785.7 |
| 50° | 6985.5 | 6959.2 | 6795.9 | 6823.3 | 7041.6 | 7061.3 | 7551.7 | 7507.2 | 7020.7 | 7220.8 | 8412.1 |
| 52.5° | 7264.0 | 7279.7 | 7244.4 | 7288.8 | 7586.9 | 7605.3 | 8265.6 | 8151.8 | 7547.7 | 7813.2 | 9026.7 |
| 55° | 7469.3 | 7500.6 | 7610.5 | 7712.5 | 8162.3 | 8180.6 | 8939.0 | 8765.2 | 7984.4 | 8362.4 | 9604.7 |
| 57.5° | 7733.4 | 7688.9 | 7894.2 | 8093.0 | 8708.9 | 8757.3 | 9594.2 | 9356.2 | 8371.6 | 8835.7 | 10000.8 |
| 60° | 8112.7 | 8081.2 | 8240.8 | 8535.0 | 9320.9 | 9398.0 | 10287.2 | 9888.4 | 8655.3 | 9211.1 | 10078.0 |
| 62.5° | 8881.5 | 8803.1 | 8827.9 | 9088.2 | 10092.4 | 10194.4 | 11069.2 | 10352.6 | 8796.6 | 9357.5 | 9664.8 |
| 65° | 10031.0 | 9896.3 | 9770.7 | 9951.2 | 11179.1 | 11279.7 | 11951.9 | 10717.5 | 8744.2 | 9073.7 | 8567.7 |
| 67.5° | 11478.5 | 11345.1 | 11190.8 | 11360.8 | 12779.6 | 12859.3 | 13041.2 | 10922.7 | 8332.3 | 7980.5 | 6628.5 |
| 70° | 12672.4 | 12622.7 | 12807.1 | 13506.6 | 15336.0 | 15338.7 | 14437.7 | 10752.8 | 7203.8 | 5658.2 | 3835.3 |
| 72.5° | 12514.1 | 12484.1 | 13455.7 | 15618.5 | 18558.1 | 18488.7 | 15759.8 | 9466.1 | 4852.7 | 2552.6 | 1437.2 |
| 75° | 10266.3 | 10461.2 | 11966.3 | 15580.6 | 19715.4 | 19706.2 | 14950.3 | 6017.8 | 2007.3 | 1057.9 | 742.7 |
| 77.5° | 5505.2 | 5813.8 | 7768.7 | 11503.4 | 15391.0 | 15622.4 | 10510.9 | 2105.4 | 861.7 | 677.3 | 513.9 |
| 80° | 1795.4 | 2064.8 | 3096.5 | 5857.0 | 10000.8 | 9957.7 | 4504.9 | 826.5 | 589.8 | 479.9 | 355.7 |
| 82.5° | 762.4 | 793.8 | 1383.4 | 2765.7 | 5132.5 | 5052.7 | 1434.5 | 474.7 | 414.5 | 328.2 | 219.7 |
| 85° | 298.2 | 333.4 | 610.7 | 1278.9 | 2223.0 | 2174.6 | 517.8 | 235.3 | 265.5 | 214.4 | 130.8 |
| 87.5° | 98.1 | 119.0 | 218.4 | 438.1 | 691.8 | 666.9 | 126.8 | 81.1 | 115.1 | 98.1 | 47.0 |
| 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-SB4B-750-U-T4FT

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3223.3 | 3223.3 | 3223.3 | 3223.3 | 3223.3 | 3223.3 | 3223.3 | 3223.3 | 3223.3 | 3223.3 | 3223.3 |
| 2.5° | 3250.8 | 3271.7 | 3296.6 | 3333.2 | 3364.6 | 3390.7 | 3418.2 | 3435.2 | 3441.7 | 3461.3 | 3460.0 |
| 5° | 3274.4 | 3320.1 | 3381.6 | 3441.7 | 3500.6 | 3535.8 | 3567.2 | 3583.0 | 3597.3 | 3607.8 | 3610.4 |
| 7.5° | 3313.6 | 3372.5 | 3469.2 | 3547.6 | 3597.3 | 3626.1 | 3647.1 | 3641.8 | 3647.1 | 3649.6 | 3653.5 |
| 10° | 3347.5 | 3430.0 | 3545.1 | 3619.6 | 3657.5 | 3658.8 | 3653.5 | 3635.3 | 3626.1 | 3627.4 | 3630.0 |
| 12.5° | 3388.1 | 3479.7 | 3603.9 | 3666.6 | 3677.1 | 3648.3 | 3626.1 | 3594.7 | 3583.0 | 3577.8 | 3575.1 |
| 15° | 3443.1 | 3547.6 | 3668.0 | 3691.4 | 3665.3 | 3628.7 | 3590.8 | 3539.8 | 3513.6 | 3492.7 | 3499.2 |
| 17.5° | 3509.7 | 3624.8 | 3717.7 | 3700.7 | 3644.4 | 3584.2 | 3522.8 | 3445.6 | 3392.0 | 3369.8 | 3371.1 |
| 20° | 3602.6 | 3705.9 | 3755.6 | 3681.0 | 3596.0 | 3504.5 | 3399.9 | 3305.7 | 3256.0 | 3233.8 | 3231.2 |
| 22.5° | 3715.0 | 3814.4 | 3792.2 | 3647.1 | 3526.7 | 3380.2 | 3249.5 | 3180.2 | 3155.4 | 3139.7 | 3142.2 |
| 25° | 3849.7 | 3934.7 | 3818.3 | 3597.3 | 3412.9 | 3215.5 | 3114.8 | 3092.6 | 3080.8 | 3069.1 | 3069.1 |
| 27.5° | 4025.0 | 4070.7 | 3837.9 | 3524.1 | 3235.1 | 3040.3 | 3003.7 | 3007.6 | 3003.7 | 2984.1 | 2988.0 |
| 30° | 4256.4 | 4247.2 | 3856.3 | 3405.2 | 3031.1 | 2882.1 | 2884.7 | 2901.7 | 2904.2 | 2891.2 | 2897.8 |
| 32.5° | 4561.0 | 4468.2 | 3865.4 | 3250.8 | 2836.3 | 2743.4 | 2746.1 | 2764.3 | 2777.4 | 2755.2 | 2765.7 |
| 35° | 4929.8 | 4725.9 | 3851.0 | 3057.3 | 2685.9 | 2611.4 | 2591.7 | 2596.9 | 2600.9 | 2580.0 | 2594.4 |
| 37.5° | 5360.0 | 5014.8 | 3787.0 | 2842.8 | 2561.7 | 2481.9 | 2440.1 | 2404.8 | 2383.8 | 2364.3 | 2377.3 |
| 40° | 5832.0 | 5330.0 | 3669.3 | 2633.6 | 2423.1 | 2344.6 | 2281.9 | 2215.1 | 2144.5 | 2118.4 | 2130.2 |
| 42.5° | 6326.4 | 5654.2 | 3526.7 | 2433.6 | 2263.5 | 2199.4 | 2132.7 | 2036.0 | 1930.1 | 1876.5 | 1883.0 |
| 45° | 6839.0 | 5986.4 | 3386.8 | 2236.0 | 2100.1 | 2072.7 | 1995.5 | 1879.1 | 1764.0 | 1696.0 | 1690.7 |
| 47.5° | 7341.2 | 6300.3 | 3181.5 | 2037.3 | 1947.1 | 1977.1 | 1917.1 | 1809.7 | 1681.6 | 1574.4 | 1562.6 |
| 50° | 7821.1 | 6594.4 | 2845.4 | 1836.0 | 1822.9 | 1948.4 | 1890.8 | 1736.6 | 1590.1 | 1452.8 | 1441.0 |
| 52.5° | 8297.0 | 6832.4 | 2415.2 | 1652.8 | 1756.1 | 1940.5 | 1856.9 | 1686.8 | 1507.7 | 1363.9 | 1348.2 |
| 55° | 8701.0 | 6955.3 | 2000.7 | 1496.0 | 1659.4 | 1873.9 | 1816.3 | 1628.0 | 1391.3 | 1238.3 | 1225.3 |
| 57.5° | 8931.2 | 6856.0 | 1655.5 | 1341.6 | 1526.0 | 1764.0 | 1747.0 | 1502.4 | 1252.8 | 1135.1 | 1119.3 |
| 60° | 8831.8 | 6453.2 | 1373.0 | 1206.9 | 1399.2 | 1645.0 | 1626.7 | 1378.2 | 1146.8 | 1035.7 | 1020.0 |
| 62.5° | 8283.9 | 5685.7 | 1149.4 | 1089.3 | 1284.1 | 1523.4 | 1506.4 | 1282.8 | 1065.7 | 958.5 | 941.5 |
| 65° | 7180.2 | 4625.1 | 975.5 | 991.2 | 1167.7 | 1377.0 | 1401.8 | 1203.0 | 1001.6 | 897.1 | 880.1 |
| 67.5° | 5476.4 | 3350.2 | 839.5 | 906.2 | 1054.0 | 1233.1 | 1305.0 | 1145.5 | 948.0 | 848.7 | 833.0 |
| 70° | 3121.3 | 1902.6 | 724.5 | 823.8 | 953.2 | 1099.7 | 1230.5 | 1099.7 | 890.5 | 808.1 | 797.7 |
| 72.5° | 1183.5 | 873.5 | 626.4 | 741.5 | 856.5 | 987.3 | 1148.1 | 1027.8 | 823.8 | 762.4 | 751.9 |
| 75° | 631.6 | 532.2 | 527.0 | 644.6 | 745.4 | 877.4 | 1044.8 | 957.1 | 774.1 | 805.5 | 831.7 |
| 77.5° | 430.2 | 376.6 | 440.6 | 551.9 | 623.7 | 755.8 | 935.0 | 849.9 | 670.9 | 668.2 | 615.9 |
| 80° | 298.2 | 266.8 | 358.3 | 444.6 | 482.6 | 635.5 | 816.0 | 729.7 | 546.6 | 509.9 | 487.8 |
| 82.5° | 179.2 | 173.9 | 268.0 | 332.1 | 341.3 | 490.4 | 676.1 | 612.0 | 447.2 | 389.7 | 392.3 |
| 85° | 98.1 | 103.3 | 171.3 | 194.9 | 198.7 | 342.6 | 529.6 | 473.3 | 343.9 | 288.9 | 291.6 |
| 87.5° | 27.5 | 35.3 | 62.7 | 77.2 | 95.4 | 177.8 | 315.2 | 281.2 | 172.6 | 120.3 | 120.3 |
| 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)