

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: P967799

Luminaire Tested: **NVN-SB5A-750-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967799
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5A-750-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25226.3 lumens
Efficiency: N/A
Efficacy: 178.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

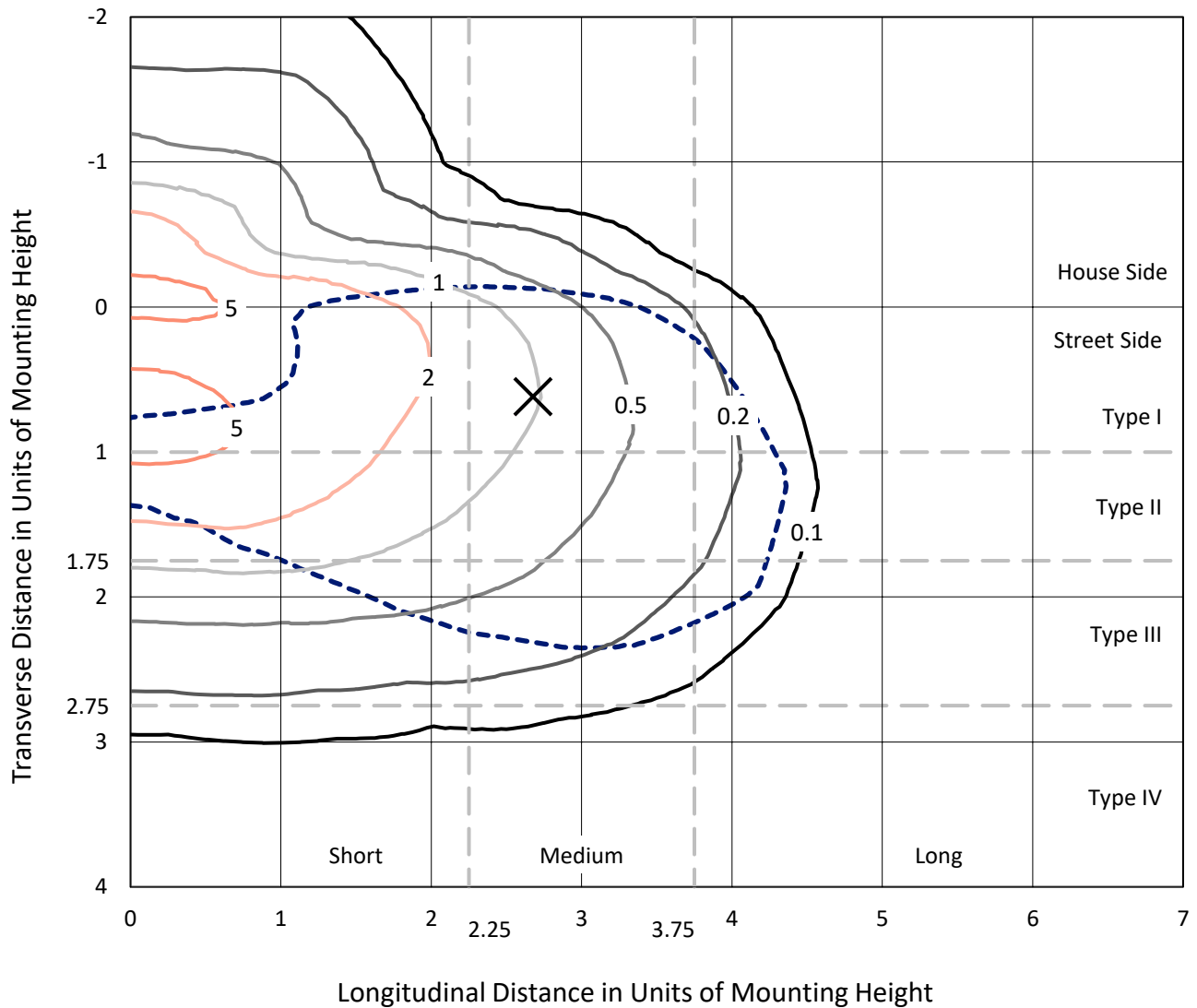
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

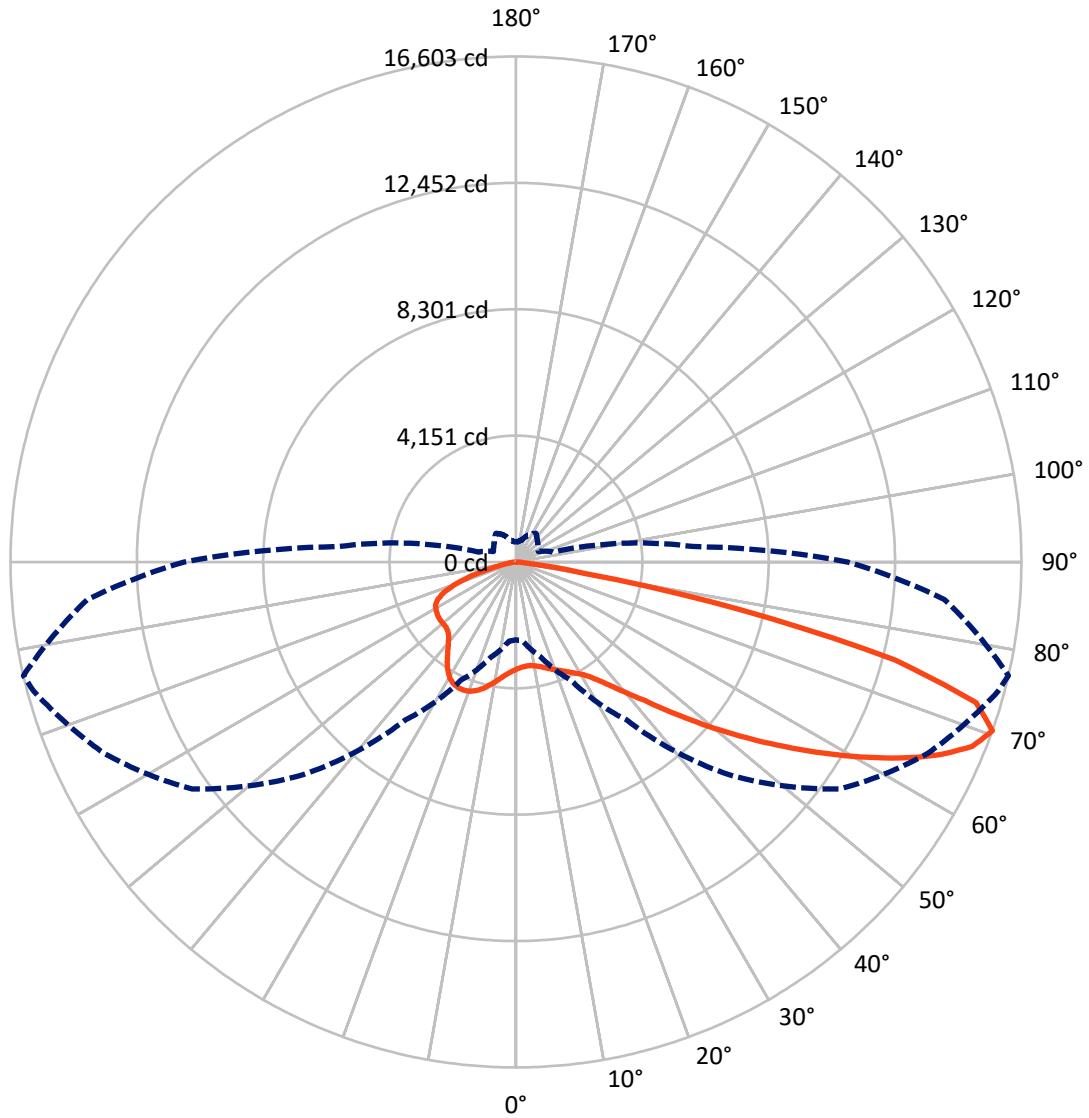
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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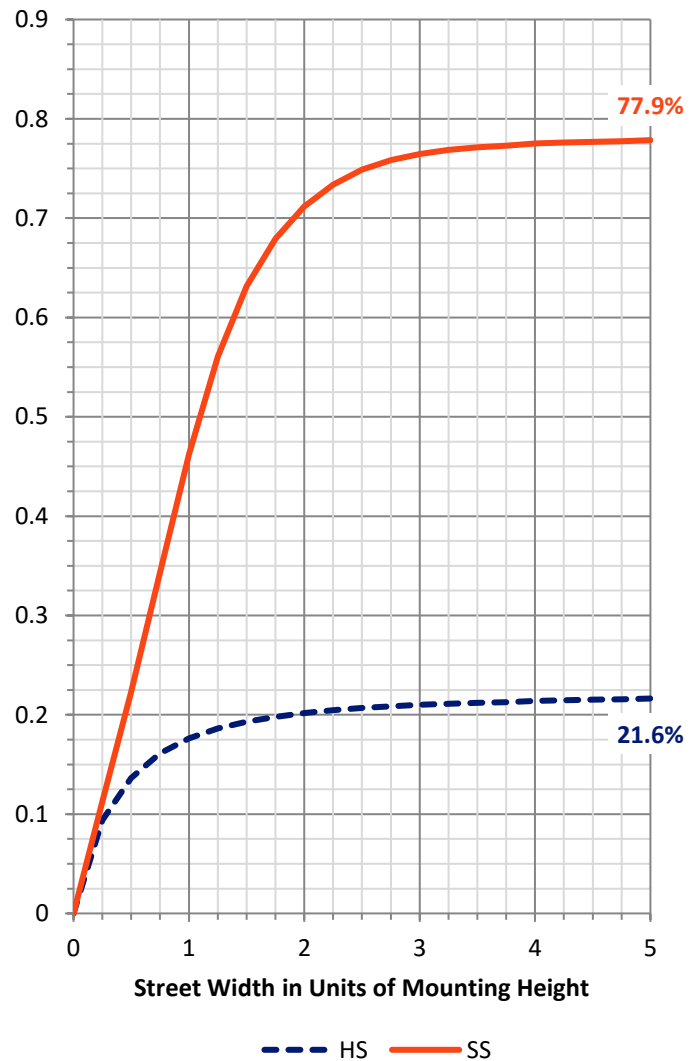
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5524.2 | 0.0 | 5524.2 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 19702.1 | 0.0 | 19702.1 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 25226.3 | 0.0 | 25226.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 335.6 | 1.3 |
| 10°-20° | 968.7 | 3.8 |
| 20°-30° | 1656.6 | 6.6 |
| 30°-40° | 2664.0 | 10.6 |
| 40°-50° | 4159.2 | 16.5 |
| 50°-60° | 5555.7 | 22.0 |
| 60°-70° | 5921.6 | 23.5 |
| 70°-80° | 3645.3 | 14.5 |
| 80°-90° | 319.4 | 1.3 |
| 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° | 25226.3 | 100.0 |
| 0°-180° | 25226.3 | 100.0 |



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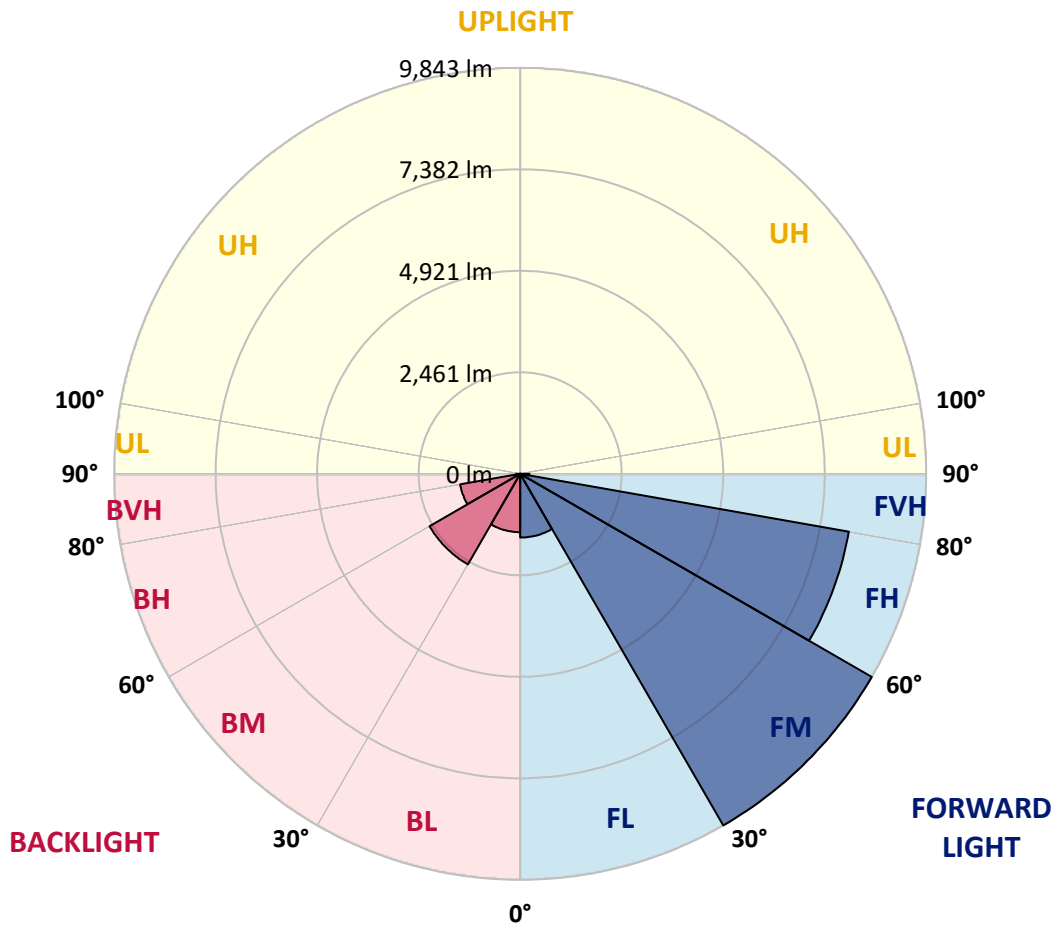
CATALOG NUMBER: NVN-SB5A-750-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1545.5 | 6.1 | | | |
| FM (30°-60°) | 9842.8 | 39.0 | | | |
| FH (60°-80°) | 8090.5 | 32.1 | | | G4/12000 |
| FVH (80°-90°) | 223.4 | 0.9 | | | G2/225 |
| BL (0°-30°) | 1415.5 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 2536.3 | 10.1 | B3/5000 | | |
| BH (60°-80°) | 1476.4 | 5.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 96.1 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3519.3 | 3519.3 | 3519.3 | 3519.3 | 3519.3 | 3519.3 | 3519.3 | 3519.3 | 3519.3 | 3519.3 | 3519.3 |
| 2.5° | 3244.1 | 3242.8 | 3259.6 | 3264.8 | 3295.8 | 3317.7 | 3359.1 | 3403.0 | 3459.9 | 3466.3 | 3501.2 |
| 5° | 3056.8 | 3056.8 | 3076.1 | 3096.8 | 3136.9 | 3180.8 | 3244.1 | 3320.4 | 3418.5 | 3434.1 | 3520.6 |
| 7.5° | 2897.9 | 2908.2 | 2925.0 | 2965.0 | 3011.6 | 3074.9 | 3171.8 | 3280.3 | 3409.5 | 3434.1 | 3573.6 |
| 10° | 2770.0 | 2781.5 | 2802.2 | 2834.5 | 2904.3 | 2992.2 | 3118.8 | 3258.3 | 3431.4 | 3470.2 | 3651.0 |
| 12.5° | 2729.9 | 2741.6 | 2753.1 | 2777.7 | 2842.3 | 2945.6 | 3096.8 | 3268.6 | 3484.4 | 3523.1 | 3757.0 |
| 15° | 2823.0 | 2837.1 | 2828.1 | 2821.6 | 2855.2 | 2949.5 | 3107.2 | 3306.1 | 3550.3 | 3605.8 | 3887.5 |
| 17.5° | 3037.4 | 3042.6 | 3021.9 | 2961.1 | 2956.0 | 3006.4 | 3156.3 | 3357.8 | 3633.0 | 3693.7 | 4019.3 |
| 20° | 3383.6 | 3374.6 | 3332.0 | 3211.8 | 3143.4 | 3133.0 | 3240.2 | 3435.3 | 3718.3 | 3782.9 | 4161.4 |
| 22.5° | 3853.9 | 3843.5 | 3758.3 | 3568.4 | 3415.9 | 3315.2 | 3361.7 | 3536.0 | 3813.8 | 3886.2 | 4299.7 |
| 25° | 4440.5 | 4426.3 | 4300.9 | 4042.5 | 3806.1 | 3556.7 | 3527.0 | 3669.2 | 3931.4 | 3998.6 | 4444.3 |
| 27.5° | 5125.2 | 5113.6 | 4977.9 | 4636.8 | 4295.8 | 3887.5 | 3732.4 | 3825.5 | 4054.2 | 4130.4 | 4607.2 |
| 30° | 5861.7 | 5895.2 | 5654.9 | 5288.0 | 4856.4 | 4319.0 | 4009.0 | 4018.0 | 4213.1 | 4281.5 | 4804.8 |
| 32.5° | 6727.3 | 6785.4 | 6495.9 | 6030.9 | 5441.7 | 4788.0 | 4357.8 | 4286.8 | 4444.3 | 4501.2 | 5054.2 |
| 35° | 7585.1 | 7651.0 | 7410.6 | 6896.5 | 6218.2 | 5341.0 | 4722.1 | 4595.5 | 4751.8 | 4813.8 | 5384.8 |
| 37.5° | 8326.7 | 8414.5 | 8290.5 | 7843.5 | 7048.9 | 6007.6 | 5197.6 | 4958.5 | 5130.3 | 5207.9 | 5829.3 |
| 40° | 8912.0 | 9046.3 | 9037.2 | 8758.2 | 8028.2 | 6816.4 | 5800.9 | 5406.9 | 5600.6 | 5684.6 | 6368.0 |
| 42.5° | 9387.4 | 9503.7 | 9604.5 | 9590.2 | 9050.1 | 7735.0 | 6510.2 | 5989.5 | 6136.8 | 6233.7 | 6974.0 |
| 45° | 9715.6 | 9839.6 | 10056.6 | 10290.5 | 10033.3 | 8718.1 | 7322.8 | 6680.7 | 6815.1 | 6961.1 | 7696.2 |
| 47.5° | 10008.8 | 10149.7 | 10431.3 | 10802.1 | 10868.0 | 9705.2 | 8213.0 | 7485.6 | 7608.4 | 7759.5 | 8421.0 |
| 50° | 10034.6 | 10156.1 | 10592.8 | 11118.6 | 11460.9 | 10653.5 | 9169.0 | 8388.7 | 8503.7 | 8665.1 | 9197.4 |
| 52.5° | 9410.6 | 9601.8 | 10364.1 | 11109.6 | 11733.6 | 11446.8 | 10118.6 | 9327.9 | 9457.2 | 9650.9 | 10001.0 |
| 55° | 7304.8 | 7585.1 | 9693.5 | 10763.3 | 11636.7 | 11959.7 | 11021.7 | 10326.7 | 10492.0 | 10694.8 | 10809.9 |
| 57.5° | 6291.9 | 6414.6 | 7694.9 | 10132.8 | 11194.8 | 12092.7 | 11783.9 | 11335.7 | 11601.8 | 11824.0 | 11665.1 |
| 60° | 5654.9 | 5757.0 | 6514.1 | 9152.2 | 10613.5 | 11882.1 | 12373.1 | 12276.2 | 12736.1 | 13001.0 | 12539.7 |
| 62.5° | 4972.8 | 5069.6 | 5758.2 | 7641.9 | 9869.3 | 11532.1 | 12745.2 | 13144.4 | 13898.9 | 14188.3 | 13364.1 |
| 65° | 4295.8 | 4378.5 | 5038.6 | 6421.0 | 8923.5 | 11181.9 | 12937.7 | 13895.0 | 14975.0 | 15274.9 | 14048.8 |
| 67.5° | 3541.3 | 3609.7 | 4233.8 | 5417.2 | 7773.7 | 10702.5 | 13033.3 | 14485.4 | 15911.8 | 16168.9 | 14387.2 |
| 70° | 2555.5 | 2608.4 | 3253.1 | 4284.1 | 6330.6 | 9878.3 | 12994.5 | 14904.0 | 16397.5 | 16602.9 | 14131.5 |
| 72.5° | 1208.0 | 1255.8 | 2012.9 | 2781.5 | 4471.5 | 8273.7 | 12210.3 | 14572.0 | 15904.0 | 15801.9 | 12565.6 |
| 75° | 644.7 | 686.0 | 1156.3 | 1525.8 | 2361.7 | 5671.7 | 9992.0 | 12552.7 | 13354.9 | 12858.8 | 9286.6 |
| 77.5° | 436.6 | 468.9 | 715.8 | 916.0 | 1078.8 | 2692.5 | 6422.3 | 8691.0 | 8361.5 | 7542.5 | 4651.0 |
| 80° | 346.2 | 379.9 | 586.5 | 620.1 | 521.9 | 972.8 | 2653.7 | 4023.1 | 2890.1 | 2311.3 | 1323.0 |
| 82.5° | 266.2 | 303.6 | 493.5 | 449.6 | 284.2 | 399.2 | 772.5 | 1272.5 | 740.3 | 563.3 | 320.4 |
| 85° | 162.8 | 202.8 | 387.6 | 286.8 | 160.2 | 182.1 | 262.3 | 354.0 | 226.1 | 188.6 | 115.0 |
| 87.5° | 82.7 | 116.2 | 196.4 | 104.7 | 72.4 | 42.6 | 69.8 | 69.8 | 59.4 | 51.7 | 29.7 |
| 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-750-U-T3R

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3519.3 | 3519.3 | 3519.3 | 3519.3 | 3519.3 | 3519.3 | 3519.3 | 3519.3 | 3519.3 | 3519.3 | 3519.3 |
| 2.5° | 3532.3 | 3558.1 | 3602.0 | 3643.4 | 3675.6 | 3706.6 | 3737.7 | 3754.5 | 3759.6 | 3780.3 | 3791.9 |
| 5° | 3573.6 | 3621.3 | 3706.6 | 3786.8 | 3837.1 | 3868.1 | 3890.1 | 3903.0 | 3905.6 | 3912.0 | 3922.4 |
| 7.5° | 3649.8 | 3726.0 | 3844.9 | 3924.9 | 3962.4 | 3959.9 | 3950.8 | 3918.5 | 3905.6 | 3894.0 | 3896.5 |
| 10° | 3757.0 | 3857.8 | 4003.8 | 4059.3 | 4036.0 | 3974.0 | 3894.0 | 3799.7 | 3755.7 | 3713.1 | 3700.1 |
| 12.5° | 3890.1 | 4018.0 | 4161.4 | 4158.8 | 4043.8 | 3885.0 | 3698.9 | 3554.2 | 3462.4 | 3396.5 | 3381.1 |
| 15° | 4051.6 | 4198.9 | 4308.7 | 4220.8 | 3968.9 | 3683.3 | 3410.8 | 3222.2 | 3139.5 | 3067.1 | 3059.3 |
| 17.5° | 4218.3 | 4375.8 | 4426.3 | 4201.5 | 3780.3 | 3385.0 | 3076.1 | 2927.6 | 2846.2 | 2807.5 | 2819.1 |
| 20° | 4381.1 | 4537.4 | 4496.1 | 4090.4 | 3493.5 | 3046.4 | 2771.3 | 2689.9 | 2673.1 | 2682.1 | 2678.2 |
| 22.5° | 4552.8 | 4692.3 | 4510.2 | 3875.8 | 3127.8 | 2700.2 | 2549.1 | 2551.6 | 2589.0 | 2616.2 | 2622.7 |
| 25° | 4728.5 | 4822.9 | 4472.8 | 3565.8 | 2735.1 | 2445.6 | 2408.2 | 2449.5 | 2523.2 | 2576.1 | 2590.4 |
| 27.5° | 4897.9 | 4939.2 | 4391.4 | 3182.1 | 2397.9 | 2263.5 | 2270.0 | 2355.2 | 2466.4 | 2540.0 | 2558.1 |
| 30° | 5089.0 | 5042.5 | 4235.0 | 2750.6 | 2164.0 | 2107.2 | 2161.4 | 2260.9 | 2372.1 | 2438.0 | 2453.4 |
| 32.5° | 5304.8 | 5131.7 | 3986.9 | 2351.4 | 1998.6 | 1981.8 | 2071.0 | 2135.6 | 2184.7 | 2204.1 | 2214.4 |
| 35° | 5573.5 | 5257.0 | 3669.2 | 2071.0 | 1850.1 | 1890.1 | 1975.4 | 1943.1 | 1923.7 | 1913.4 | 1923.7 |
| 37.5° | 5922.3 | 5426.2 | 3297.1 | 1888.9 | 1729.9 | 1824.3 | 1859.1 | 1758.4 | 1682.1 | 1644.6 | 1653.7 |
| 40° | 6342.2 | 5674.3 | 2939.2 | 1748.0 | 1653.7 | 1767.4 | 1706.7 | 1585.3 | 1488.3 | 1435.4 | 1439.2 |
| 42.5° | 6808.7 | 5933.9 | 2638.1 | 1642.0 | 1611.1 | 1720.9 | 1594.3 | 1449.6 | 1293.2 | 1276.4 | 1293.2 |
| 45° | 7298.3 | 6201.4 | 2432.7 | 1560.7 | 1590.4 | 1680.8 | 1529.7 | 1295.8 | 1184.7 | 1253.2 | 1289.3 |
| 47.5° | 7787.9 | 6446.8 | 2308.7 | 1500.0 | 1580.0 | 1635.6 | 1472.8 | 1210.5 | 1131.8 | 1231.2 | 1277.8 |
| 50° | 8333.1 | 6666.5 | 2253.2 | 1456.0 | 1568.5 | 1617.6 | 1387.5 | 1188.6 | 1076.2 | 1142.1 | 1191.2 |
| 52.5° | 8874.4 | 6837.1 | 2211.8 | 1412.1 | 1551.6 | 1603.3 | 1346.2 | 1162.8 | 1009.0 | 1012.9 | 1040.1 |
| 55° | 9414.5 | 6948.2 | 2166.6 | 1353.9 | 1514.1 | 1572.4 | 1342.3 | 1134.4 | 958.7 | 940.5 | 953.5 |
| 57.5° | 9990.7 | 7011.4 | 2111.1 | 1289.3 | 1449.6 | 1493.5 | 1338.4 | 1112.3 | 943.1 | 913.4 | 917.3 |
| 60° | 10577.3 | 7104.5 | 2038.7 | 1210.5 | 1363.0 | 1399.2 | 1329.4 | 1104.6 | 934.1 | 883.7 | 887.5 |
| 62.5° | 11103.1 | 7136.8 | 1952.1 | 1135.6 | 1251.9 | 1306.2 | 1310.1 | 1098.2 | 909.6 | 823.0 | 823.0 |
| 65° | 11448.0 | 6997.3 | 1801.0 | 1050.3 | 1131.8 | 1210.5 | 1272.5 | 1076.2 | 865.6 | 779.0 | 779.0 |
| 67.5° | 11433.9 | 6599.4 | 1564.6 | 940.5 | 1015.5 | 1104.6 | 1218.3 | 1038.7 | 812.6 | 724.8 | 728.7 |
| 70° | 10901.6 | 5813.8 | 1264.8 | 812.6 | 887.5 | 991.0 | 1148.5 | 983.2 | 749.4 | 665.3 | 673.1 |
| 72.5° | 9349.9 | 4550.3 | 918.6 | 662.8 | 739.0 | 873.4 | 1058.1 | 916.0 | 684.7 | 612.4 | 608.5 |
| 75° | 6679.4 | 2879.7 | 622.7 | 509.0 | 574.9 | 740.3 | 945.7 | 837.2 | 625.4 | 615.0 | 580.0 |
| 77.5° | 3412.0 | 1376.0 | 412.2 | 372.1 | 400.5 | 583.9 | 794.6 | 748.0 | 634.4 | 507.8 | 452.2 |
| 80° | 1109.8 | 507.8 | 259.6 | 253.2 | 266.2 | 388.9 | 615.0 | 613.7 | 480.6 | 344.9 | 304.9 |
| 82.5° | 354.0 | 218.3 | 169.2 | 162.8 | 156.3 | 244.2 | 429.0 | 485.7 | 324.3 | 218.3 | 217.1 |
| 85° | 140.8 | 130.5 | 99.5 | 91.7 | 65.9 | 115.0 | 224.8 | 323.0 | 241.6 | 157.6 | 161.5 |
| 87.5° | 51.7 | 51.7 | 27.2 | 19.4 | 14.2 | 38.7 | 60.7 | 96.9 | 138.3 | 81.4 | 80.1 |
| 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)