

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: P969955

Luminaire Tested: **NVN-SB6A-827-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969955
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6A-827-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24033.2 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

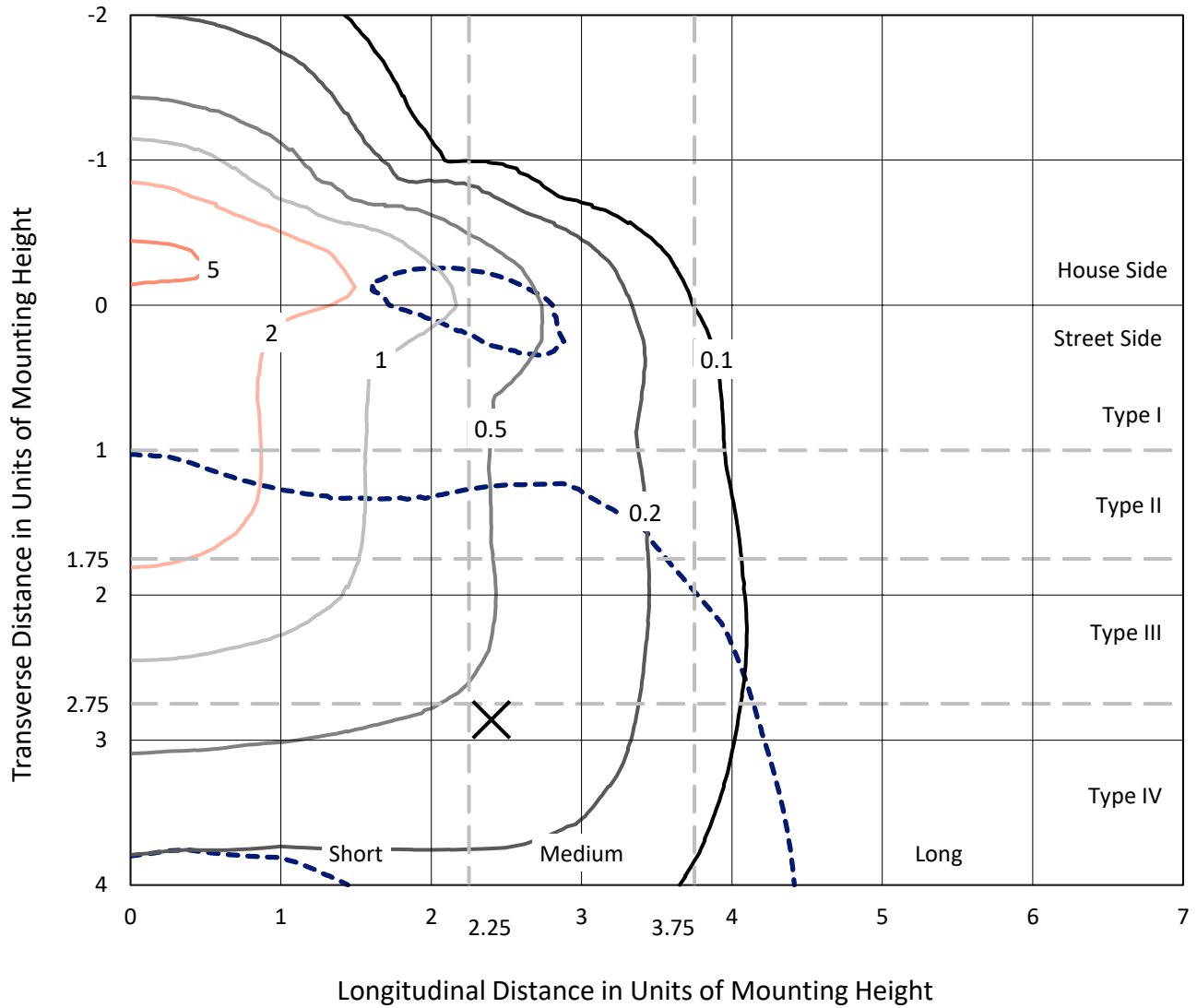
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

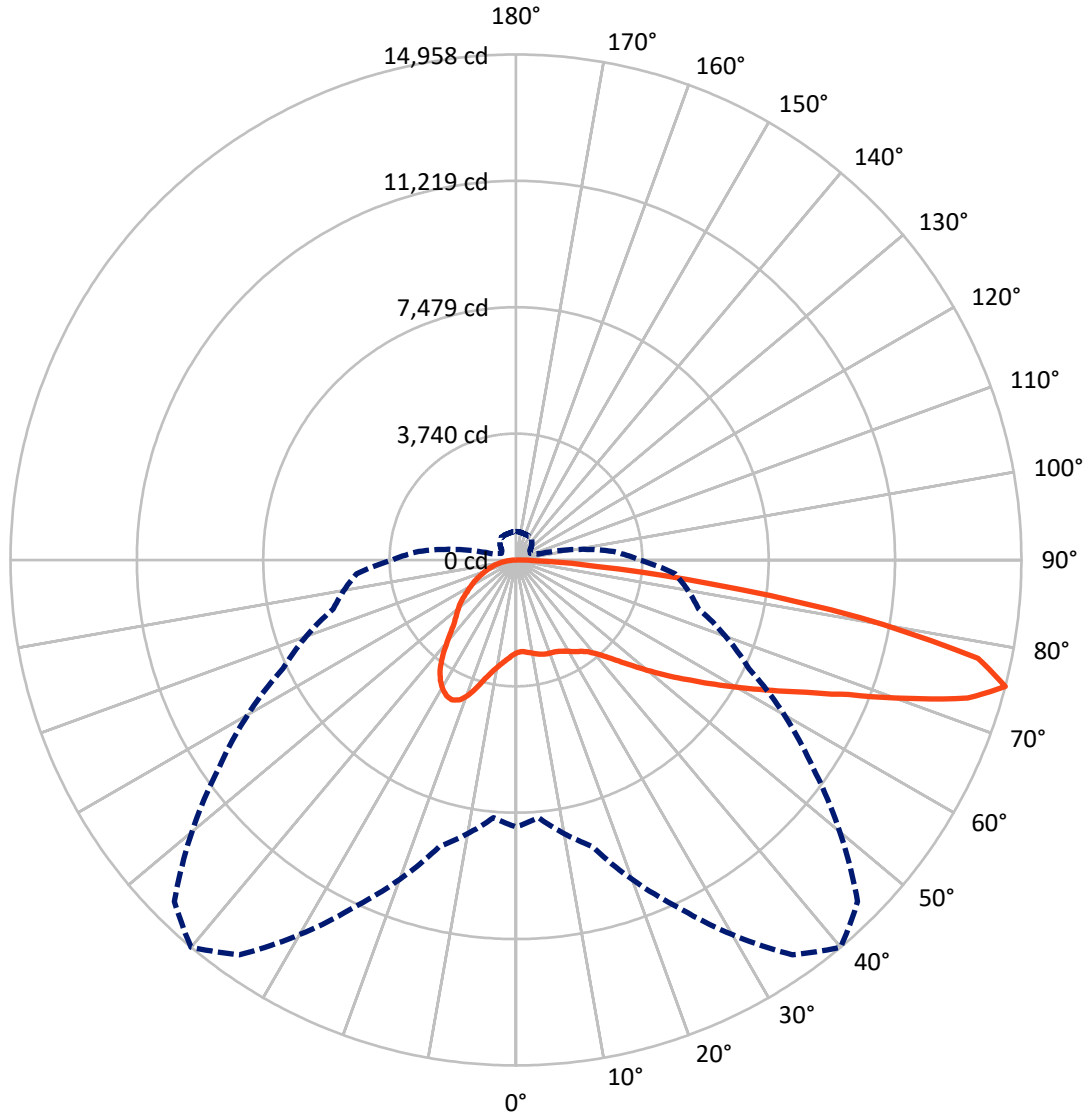
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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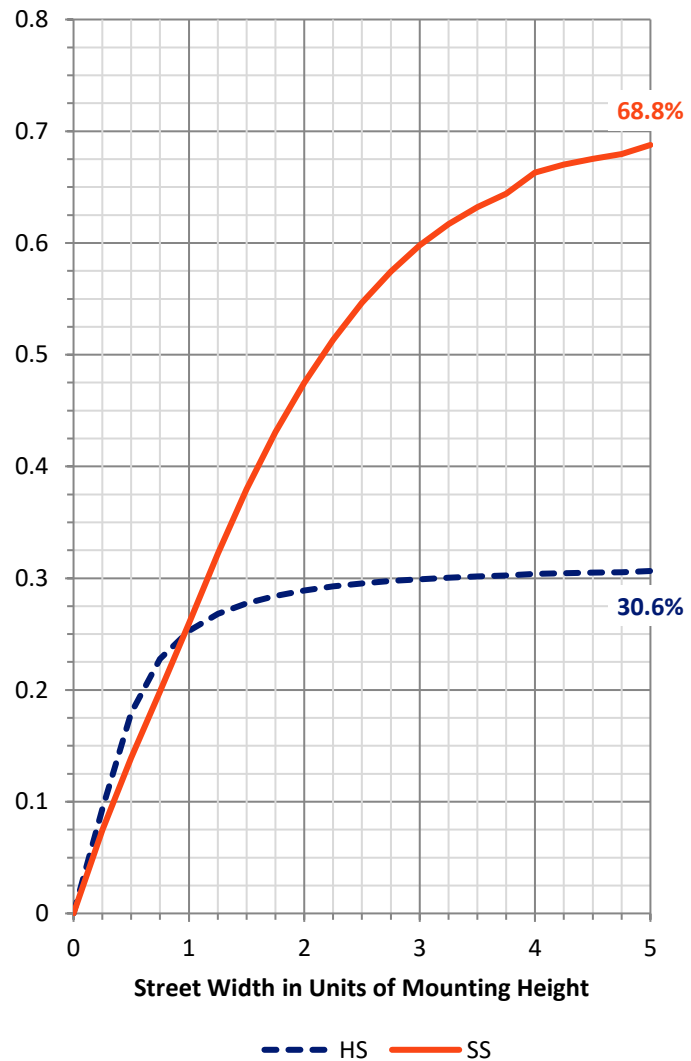
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7446.3 | 0.0 | 7446.3 |
| | % Fixture | 31.0 | 0.0 | 31.0 |
| Street Side | Lumens | 16586.9 | 0.0 | 16586.9 |
| | % Fixture | 69.0 | 0.0 | 69.0 |
| Total | Lumens | 24033.2 | 0.0 | 24033.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 274.3 | 1.1 |
| 10°-20° | 921.0 | 3.8 |
| 20°-30° | 1681.7 | 7.0 |
| 30°-40° | 2385.2 | 9.9 |
| 40°-50° | 3220.7 | 13.4 |
| 50°-60° | 4332.7 | 18.0 |
| 60°-70° | 5499.2 | 22.9 |
| 70°-80° | 4990.8 | 20.8 |
| 80°-90° | 727.5 | 3.0 |
| 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° | 24033.2 | 100.0 |
| 0°-180° | 24033.2 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P969955

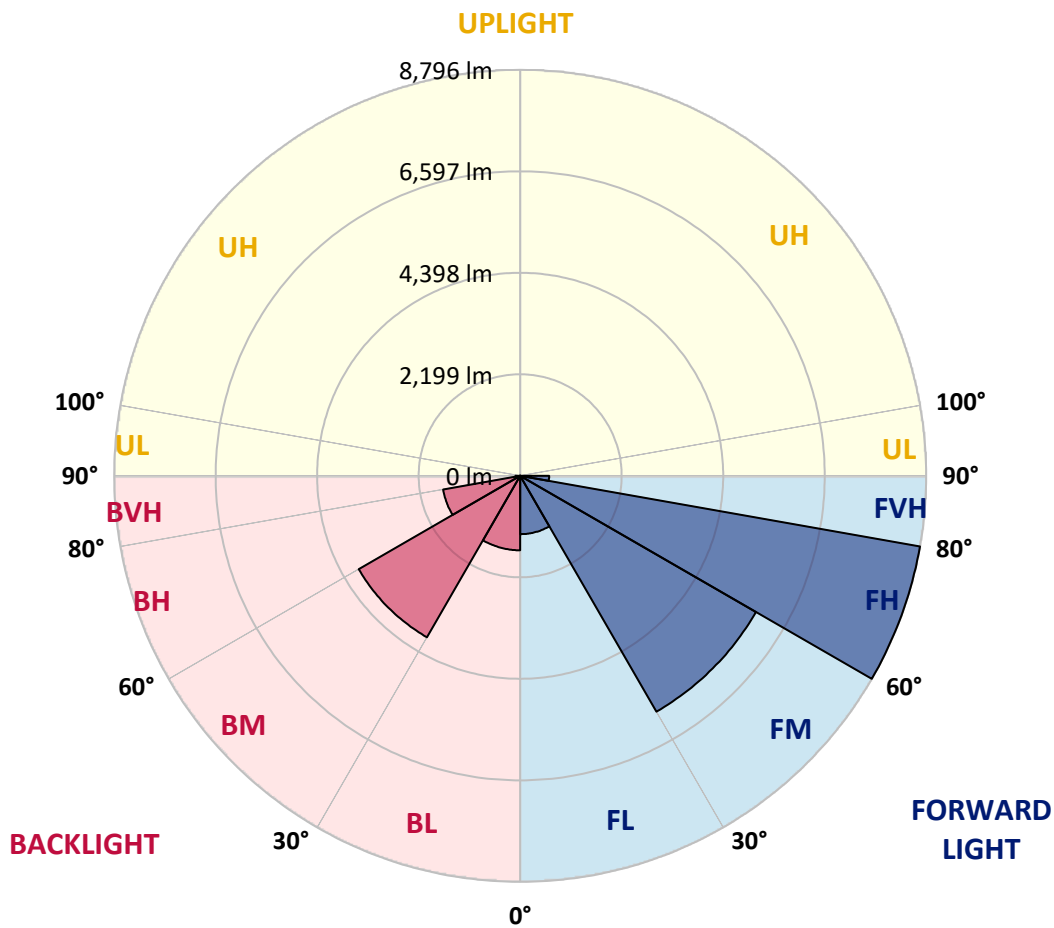
CATALOG NUMBER: NVN-SB6A-827-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1264.2 | 5.3 | | | |
| FM (30°-60°) | 5899.6 | 24.5 | | | |
| FH (60°-80°) | 8795.8 | 36.6 | | | G4/12000 |
| FVH (80°-90°) | 627.4 | 2.6 | | | G4/750 |
| BL (0°-30°) | 1612.9 | 6.7 | B3/2500 | | |
| BM (30°-60°) | 4038.9 | 16.8 | B3/5000 | | |
| BH (60°-80°) | 1694.2 | 7.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 100.2 | 0.4 | | | 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 Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0° | 2748.2 | 2748.2 | 2748.2 | 2748.2 | 2748.2 | 2748.2 | 2748.2 | 2748.2 | 2748.2 | 2748.2 | 2748.2 |
| 2.5° | 2706.2 | 2721.5 | 2717.6 | 2712.6 | 2712.6 | 2713.8 | 2712.6 | 2721.5 | 2730.4 | 2739.3 | 2753.4 |
| 5° | 2734.2 | 2749.5 | 2741.9 | 2735.5 | 2730.4 | 2729.1 | 2725.3 | 2724.0 | 2729.1 | 2740.5 | 2759.7 |
| 7.5° | 2789.0 | 2804.3 | 2792.8 | 2781.3 | 2771.2 | 2766.1 | 2760.9 | 2753.4 | 2749.5 | 2755.9 | 2782.7 |
| 10° | 2850.2 | 2865.5 | 2851.4 | 2831.0 | 2814.5 | 2808.1 | 2803.1 | 2795.4 | 2790.3 | 2794.1 | 2823.5 |
| 12.5° | 2911.4 | 2926.7 | 2907.5 | 2879.5 | 2857.8 | 2854.0 | 2847.7 | 2845.1 | 2843.9 | 2842.5 | 2871.8 |
| 15° | 2968.7 | 2981.5 | 2957.2 | 2924.1 | 2901.2 | 2894.8 | 2888.4 | 2892.2 | 2898.6 | 2906.3 | 2939.4 |
| 17.5° | 3013.4 | 3026.1 | 2990.4 | 2947.1 | 2925.5 | 2922.9 | 2919.0 | 2931.8 | 2949.6 | 2968.7 | 3009.5 |
| 20° | 3054.2 | 3066.9 | 3021.0 | 2962.4 | 2936.8 | 2936.8 | 2938.2 | 2964.9 | 2990.4 | 3018.4 | 3074.6 |
| 22.5° | 3111.5 | 3121.7 | 3065.7 | 2985.3 | 2948.3 | 2950.9 | 2961.1 | 2987.9 | 3019.8 | 3058.0 | 3135.7 |
| 25° | 3196.9 | 3204.6 | 3135.7 | 3028.7 | 2986.5 | 2994.2 | 3003.1 | 3016.0 | 3046.5 | 3091.1 | 3195.6 |
| 27.5° | 3334.6 | 3341.0 | 3250.5 | 3105.1 | 3041.4 | 3054.2 | 3066.9 | 3058.0 | 3072.0 | 3110.3 | 3244.1 |
| 30° | 3528.4 | 3532.2 | 3417.5 | 3225.0 | 3134.4 | 3140.8 | 3143.4 | 3106.4 | 3079.6 | 3110.3 | 3278.5 |
| 32.5° | 3757.8 | 3756.5 | 3620.1 | 3370.3 | 3240.2 | 3233.9 | 3212.2 | 3139.6 | 3077.0 | 3103.9 | 3309.1 |
| 35° | 4113.4 | 4099.4 | 3923.5 | 3574.2 | 3360.1 | 3320.6 | 3269.5 | 3176.5 | 3089.9 | 3097.4 | 3335.9 |
| 37.5° | 4702.3 | 4658.9 | 4415.5 | 3908.2 | 3538.5 | 3437.8 | 3362.6 | 3236.4 | 3117.8 | 3095.0 | 3367.7 |
| 40° | 5366.4 | 5311.7 | 5043.9 | 4365.8 | 3806.2 | 3644.3 | 3523.2 | 3321.8 | 3163.8 | 3106.4 | 3414.9 |
| 42.5° | 6154.2 | 6076.4 | 5788.4 | 4905.0 | 4145.3 | 3910.8 | 3728.4 | 3430.2 | 3231.3 | 3143.4 | 3478.6 |
| 45° | 7121.7 | 7018.4 | 6610.5 | 5513.1 | 4572.3 | 4260.0 | 4016.6 | 3594.6 | 3334.6 | 3214.8 | 3574.2 |
| 47.5° | 8099.3 | 8124.9 | 7544.9 | 6209.0 | 5084.7 | 4690.8 | 4377.3 | 3841.9 | 3485.0 | 3329.5 | 3728.4 |
| 50° | 9138.2 | 9156.1 | 8474.1 | 6980.1 | 5666.0 | 5177.8 | 4782.6 | 4118.6 | 3694.0 | 3492.7 | 3959.2 |
| 52.5° | 9949.0 | 9951.5 | 9318.0 | 7787.0 | 6271.5 | 5713.1 | 5219.8 | 4434.7 | 3936.2 | 3709.4 | 4266.4 |
| 55° | 10456.2 | 10449.9 | 9909.4 | 8550.7 | 6967.4 | 6275.3 | 5704.2 | 4794.1 | 4231.9 | 3964.3 | 4652.6 |
| 57.5° | 10824.6 | 10805.6 | 10317.3 | 9207.1 | 7709.3 | 6939.4 | 6252.3 | 5202.0 | 4581.2 | 4267.7 | 5161.2 |
| 60° | 10964.8 | 10953.4 | 10593.9 | 9774.3 | 8489.5 | 7673.7 | 6884.6 | 5658.3 | 4977.6 | 4625.8 | 5815.1 |
| 62.5° | 11018.4 | 11040.1 | 10865.4 | 10323.7 | 9324.3 | 8486.9 | 7579.3 | 6203.9 | 5423.8 | 5031.2 | 6504.8 |
| 65° | 11207.0 | 11246.6 | 11210.8 | 11042.6 | 10267.6 | 9439.0 | 8500.9 | 6852.7 | 5910.8 | 5465.8 | 7224.9 |
| 67.5° | 11580.6 | 11620.0 | 11635.4 | 11903.0 | 11419.9 | 10625.8 | 9650.7 | 7660.8 | 6480.5 | 5917.1 | 7766.6 |
| 70° | 11571.6 | 11560.2 | 11830.3 | 12587.5 | 12862.8 | 12268.8 | 11200.7 | 8655.1 | 7159.9 | 6291.9 | 7835.5 |
| 72.5° | 10532.7 | 10441.0 | 11079.5 | 12579.9 | 14063.6 | 13984.6 | 13093.6 | 9937.5 | 7746.2 | 6337.8 | 6799.1 |
| 75° | 7901.8 | 7657.1 | 8785.2 | 11337.1 | 14263.8 | 14958.4 | 14296.9 | 10732.9 | 7607.3 | 5599.7 | 4731.6 |
| 77.5° | 3379.2 | 3133.2 | 4462.6 | 8392.5 | 12766.0 | 13983.4 | 13193.0 | 9363.9 | 6072.6 | 3703.0 | 2323.8 |
| 80° | 884.7 | 883.3 | 1348.6 | 3804.9 | 8681.9 | 10326.3 | 9059.2 | 6047.1 | 3469.7 | 1323.2 | 641.1 |
| 82.5° | 365.8 | 356.9 | 495.9 | 1479.9 | 4242.2 | 5794.7 | 4729.0 | 2697.3 | 1253.1 | 358.2 | 212.9 |
| 85° | 136.4 | 135.1 | 240.9 | 511.2 | 1496.5 | 2390.0 | 1729.8 | 689.6 | 312.3 | 174.7 | 95.6 |
| 87.5° | 38.2 | 37.0 | 52.3 | 177.2 | 364.6 | 553.2 | 295.7 | 113.5 | 87.9 | 68.9 | 28.1 |
| 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: P969955
 CATALOG NUMBER: NVN-SB6A-827-U-SL4

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2748.2 | 2748.2 | 2748.2 | 2748.2 | 2748.2 | 2748.2 | 2748.2 | 2748.2 | 2748.2 | 2748.2 | 2748.2 |
| 2.5° | 2757.1 | 2763.5 | 2775.0 | 2783.9 | 2795.4 | 2808.1 | 2826.0 | 2837.4 | 2848.9 | 2856.6 | 2851.4 |
| 5° | 2768.6 | 2782.7 | 2812.0 | 2841.3 | 2875.7 | 2907.5 | 2944.5 | 2971.3 | 2993.0 | 2999.4 | 3001.9 |
| 7.5° | 2794.1 | 2817.0 | 2866.8 | 2916.5 | 2971.3 | 3023.5 | 3077.0 | 3123.0 | 3160.0 | 3174.0 | 3175.2 |
| 10° | 2838.7 | 2869.3 | 2939.4 | 3009.5 | 3082.2 | 3162.5 | 3231.3 | 3297.6 | 3349.9 | 3371.5 | 3372.9 |
| 12.5° | 2894.8 | 2933.0 | 3024.9 | 3121.7 | 3222.4 | 3333.3 | 3422.6 | 3504.1 | 3569.2 | 3598.5 | 3598.5 |
| 15° | 2967.5 | 3017.2 | 3134.4 | 3264.5 | 3412.3 | 3566.6 | 3680.1 | 3770.6 | 3843.1 | 3878.9 | 3876.3 |
| 17.5° | 3046.5 | 3112.8 | 3260.6 | 3456.9 | 3668.6 | 3871.2 | 4003.8 | 4070.1 | 4145.3 | 4179.7 | 4178.4 |
| 20° | 3123.0 | 3204.6 | 3416.1 | 3701.7 | 3983.4 | 4198.8 | 4305.9 | 4323.8 | 4328.9 | 4332.7 | 4342.8 |
| 22.5° | 3202.0 | 3311.7 | 3611.2 | 4010.2 | 4312.3 | 4461.4 | 4476.7 | 4400.2 | 4293.1 | 4243.4 | 4257.4 |
| 25° | 3288.7 | 3434.1 | 3866.1 | 4350.5 | 4595.3 | 4613.1 | 4495.9 | 4309.7 | 4107.1 | 4014.0 | 4028.0 |
| 27.5° | 3372.9 | 3575.5 | 4172.1 | 4675.5 | 4799.2 | 4642.4 | 4390.0 | 4126.1 | 3881.5 | 3783.3 | 3794.8 |
| 30° | 3456.9 | 3737.4 | 4509.8 | 4959.8 | 4892.2 | 4569.8 | 4223.0 | 3928.6 | 3682.6 | 3579.3 | 3590.8 |
| 32.5° | 3542.4 | 3926.1 | 4898.6 | 5165.1 | 4875.7 | 4415.5 | 4015.2 | 3706.8 | 3490.1 | 3381.8 | 3395.7 |
| 35° | 3639.3 | 4158.0 | 5267.0 | 5277.2 | 4764.8 | 4188.7 | 3741.2 | 3441.6 | 3253.0 | 3166.3 | 3185.4 |
| 37.5° | 3765.4 | 4452.5 | 5592.1 | 5305.3 | 4571.0 | 3855.9 | 3400.8 | 3128.1 | 2972.6 | 2933.0 | 2961.1 |
| 40° | 3922.2 | 4806.8 | 5840.7 | 5260.6 | 4284.2 | 3451.9 | 3028.7 | 2810.7 | 2722.7 | 2731.6 | 2762.3 |
| 42.5° | 4126.1 | 5203.3 | 6015.2 | 5145.9 | 3885.3 | 3035.0 | 2702.3 | 2605.4 | 2647.6 | 2683.2 | 2716.4 |
| 45° | 4391.3 | 5615.0 | 6123.6 | 4950.9 | 3434.1 | 2681.9 | 2509.8 | 2532.8 | 2564.7 | 2568.4 | 2594.0 |
| 47.5° | 4730.4 | 6031.8 | 6195.0 | 4656.5 | 2973.8 | 2433.4 | 2387.5 | 2392.6 | 2386.2 | 2359.4 | 2379.8 |
| 50° | 5153.6 | 6437.2 | 6258.8 | 4266.4 | 2582.5 | 2277.9 | 2216.7 | 2198.8 | 2110.9 | 2024.2 | 2035.6 |
| 52.5° | 5635.3 | 6809.4 | 6285.5 | 3782.0 | 2277.9 | 2147.9 | 2048.5 | 1936.2 | 1771.8 | 1745.1 | 1754.0 |
| 55° | 6170.8 | 7153.6 | 6216.6 | 3186.7 | 2021.6 | 1980.9 | 1830.4 | 1695.4 | 1677.5 | 1654.6 | 1658.3 |
| 57.5° | 6810.6 | 7524.5 | 6076.4 | 2522.6 | 1759.1 | 1785.9 | 1639.3 | 1654.6 | 1622.7 | 1587.0 | 1580.7 |
| 60° | 7510.5 | 7908.2 | 5830.4 | 1917.2 | 1487.6 | 1542.4 | 1589.6 | 1588.2 | 1579.3 | 1550.0 | 1539.9 |
| 62.5° | 8140.1 | 8160.5 | 5346.0 | 1468.4 | 1249.2 | 1353.7 | 1482.5 | 1481.2 | 1473.5 | 1456.9 | 1450.6 |
| 65° | 8514.9 | 8122.3 | 4537.9 | 1156.1 | 1052.9 | 1198.2 | 1337.1 | 1347.4 | 1348.6 | 1347.4 | 1347.4 |
| 67.5° | 8448.7 | 7674.9 | 3428.9 | 920.3 | 891.0 | 1040.2 | 1193.1 | 1207.1 | 1217.3 | 1219.9 | 1222.4 |
| 70° | 7699.1 | 6692.1 | 2235.8 | 734.2 | 746.9 | 901.2 | 1056.7 | 1070.7 | 1079.6 | 1089.9 | 1095.0 |
| 72.5° | 6001.3 | 4920.3 | 1279.8 | 594.0 | 620.7 | 781.4 | 921.6 | 938.2 | 943.3 | 962.4 | 970.1 |
| 75° | 3657.1 | 2893.6 | 690.8 | 467.8 | 509.8 | 667.9 | 787.7 | 806.9 | 815.8 | 838.8 | 841.3 |
| 77.5° | 1738.7 | 1253.1 | 393.9 | 364.6 | 410.4 | 545.6 | 665.4 | 687.1 | 662.9 | 675.6 | 665.4 |
| 80° | 587.6 | 465.2 | 248.6 | 277.9 | 313.5 | 425.8 | 532.8 | 554.5 | 503.5 | 500.9 | 495.9 |
| 82.5° | 205.2 | 188.7 | 158.1 | 184.8 | 202.6 | 304.6 | 402.8 | 430.8 | 374.7 | 373.5 | 355.7 |
| 85° | 80.3 | 76.5 | 87.9 | 100.7 | 121.1 | 187.4 | 265.2 | 279.1 | 230.7 | 186.1 | 183.6 |
| 87.5° | 16.6 | 17.8 | 21.6 | 23.0 | 37.0 | 65.0 | 95.6 | 117.3 | 93.1 | 79.0 | 72.7 |
| 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)