

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: P966063

Luminaire Tested: **NVN-SB4B-722-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966063
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-SB4B-722-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19617.5 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

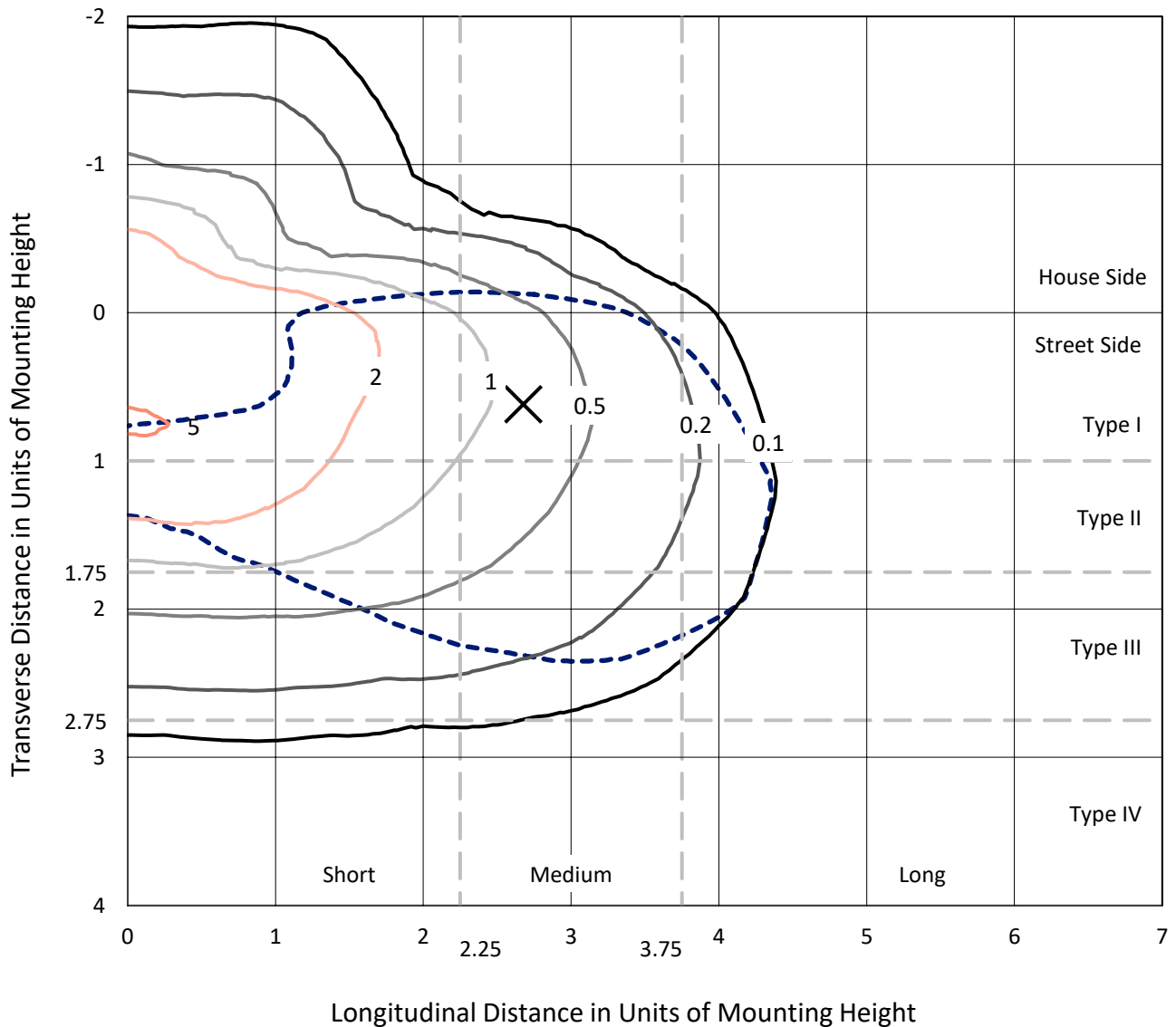
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

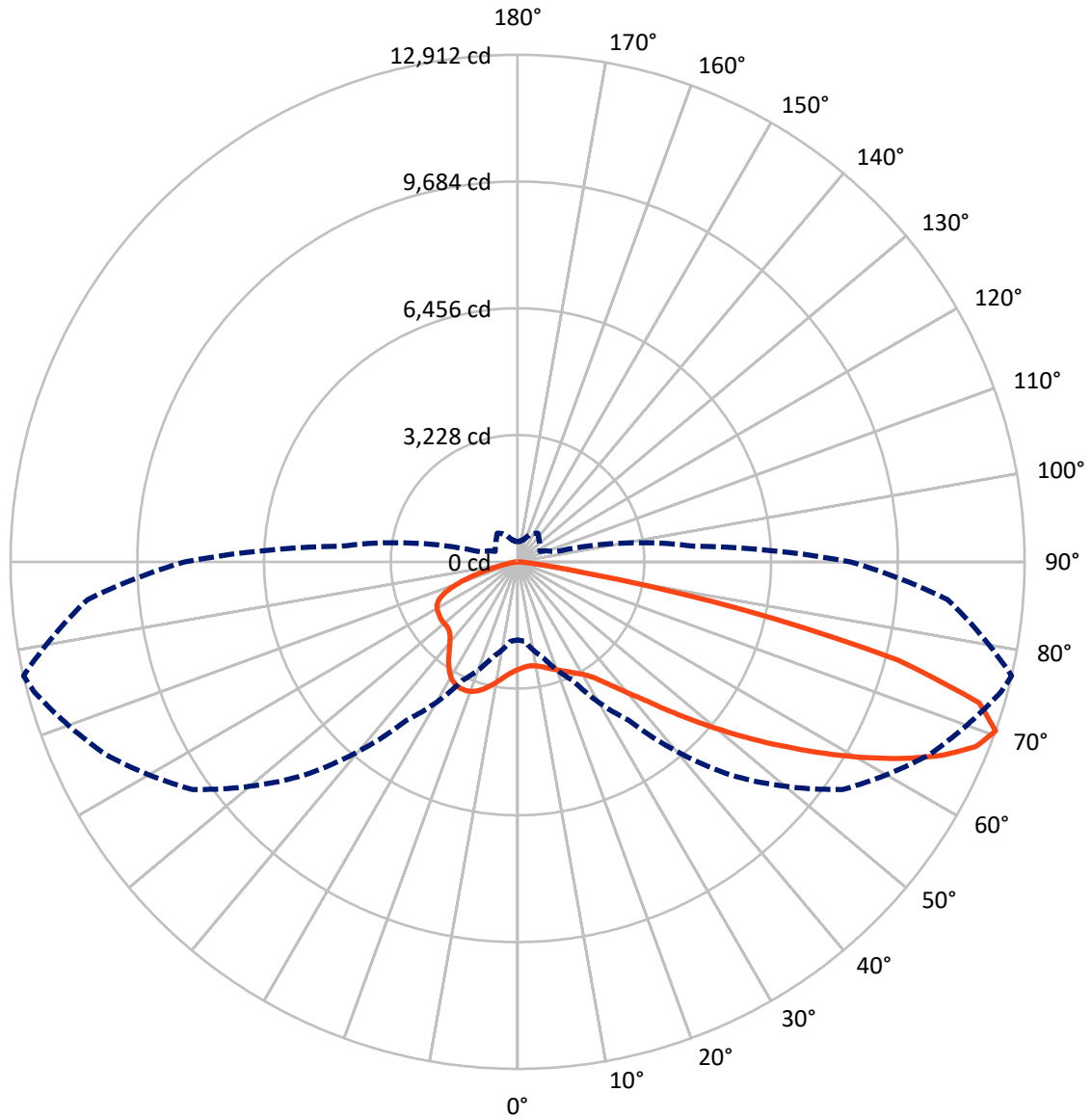
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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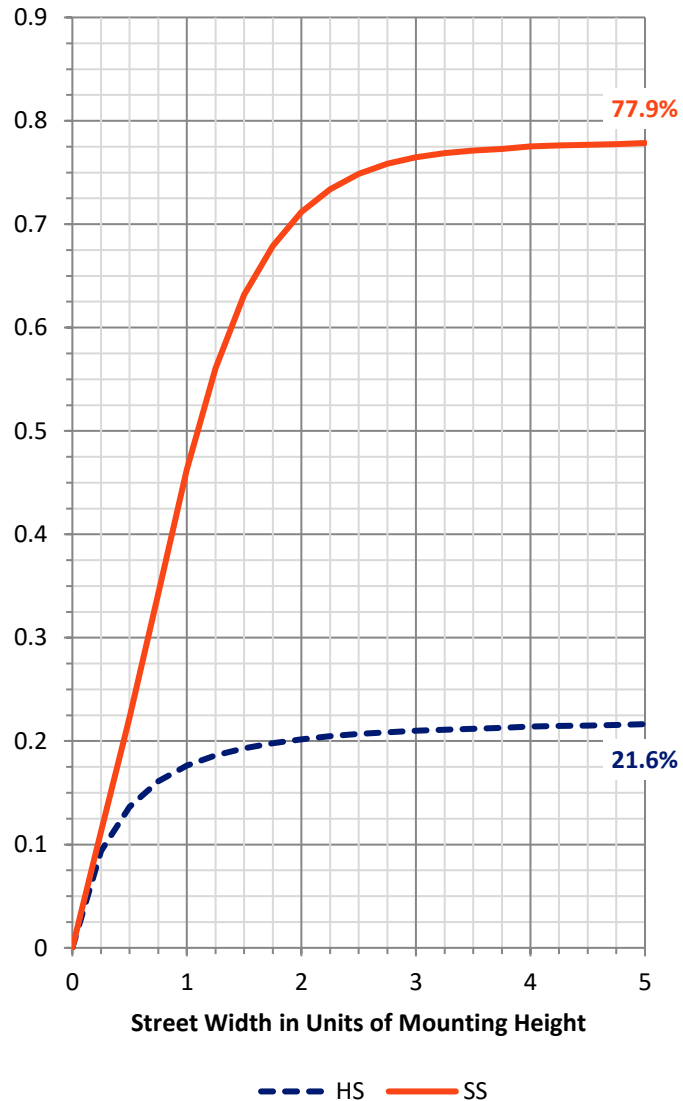
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4295.9 | 0.0 | 4295.9 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 15321.6 | 0.0 | 15321.6 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 19617.5 | 0.0 | 19617.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 261.0 | 1.3 |
| 10°-20° | 753.3 | 3.8 |
| 20°-30° | 1288.3 | 6.6 |
| 30°-40° | 2071.7 | 10.6 |
| 40°-50° | 3234.5 | 16.5 |
| 50°-60° | 4320.5 | 22.0 |
| 60°-70° | 4605.0 | 23.5 |
| 70°-80° | 2834.8 | 14.5 |
| 80°-90° | 248.4 | 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° | 19617.5 | 100.0 |
| 0°-180° | 19617.5 | 100.0 |

Coefficient of Utilization



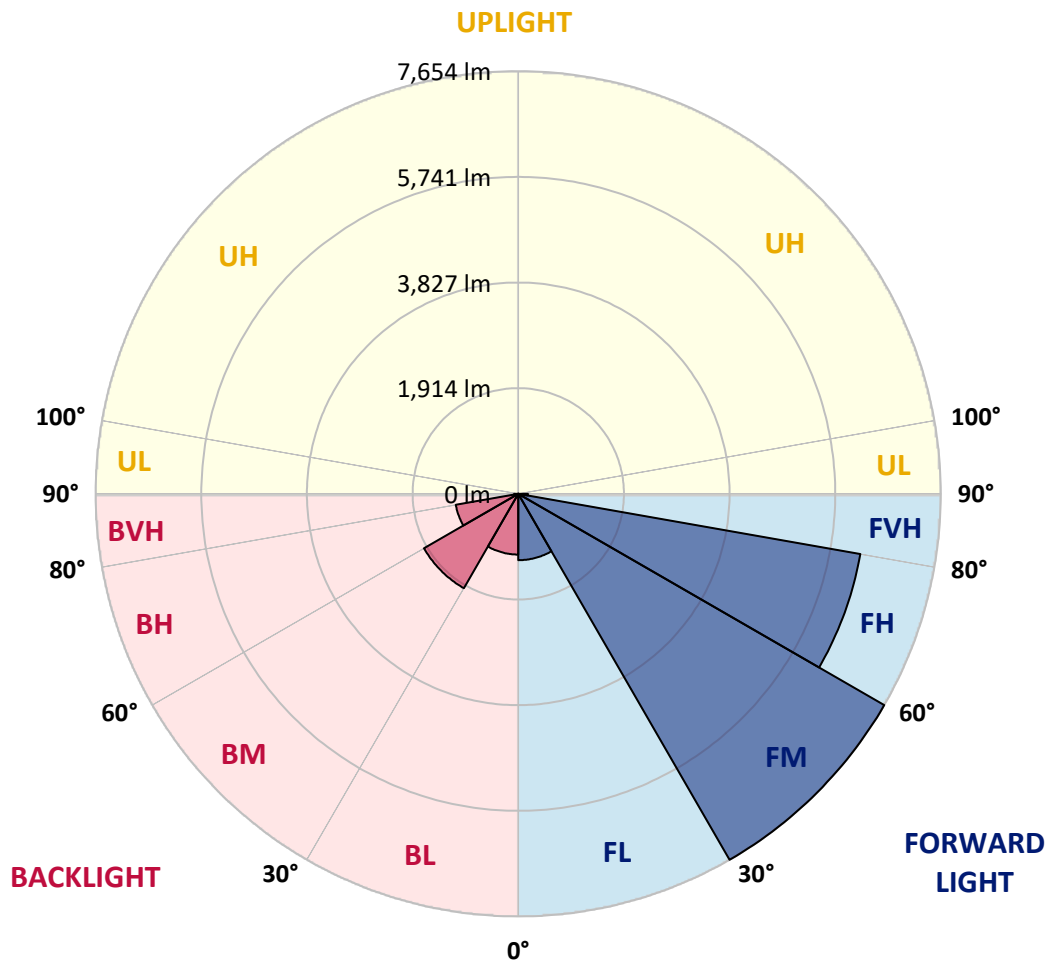
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1201.9 | 6.1 | | | |
| FM (30°-60°) | 7654.3 | 39.0 | | | |
| FH (60°-80°) | 6291.7 | 32.1 | | | G3/7500 |
| FVH (80°-90°) | 173.7 | 0.9 | | | G2/225 |
| BL (0°-30°) | 1100.8 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 1972.3 | 10.1 | B2/2500 | | |
| BH (60°-80°) | 1148.1 | 5.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 74.7 | 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-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 2736.9 | 2736.9 | 2736.9 | 2736.9 | 2736.9 | 2736.9 | 2736.9 | 2736.9 | 2736.9 | 2736.9 | 2736.9 |
| 2.5° | 2522.8 | 2521.8 | 2534.8 | 2538.9 | 2563.0 | 2580.1 | 2612.2 | 2646.3 | 2690.6 | 2695.6 | 2722.7 |
| 5° | 2377.2 | 2377.2 | 2392.2 | 2408.2 | 2439.4 | 2473.6 | 2522.8 | 2582.1 | 2658.4 | 2670.5 | 2737.8 |
| 7.5° | 2253.6 | 2261.6 | 2274.7 | 2305.8 | 2341.9 | 2391.2 | 2466.6 | 2550.9 | 2651.4 | 2670.5 | 2779.0 |
| 10° | 2154.0 | 2163.2 | 2179.3 | 2204.4 | 2258.6 | 2326.9 | 2425.4 | 2533.9 | 2668.5 | 2698.6 | 2839.2 |
| 12.5° | 2123.0 | 2132.0 | 2141.0 | 2160.1 | 2210.3 | 2290.8 | 2408.2 | 2541.9 | 2709.7 | 2739.8 | 2921.7 |
| 15° | 2195.2 | 2206.3 | 2199.3 | 2194.3 | 2220.4 | 2293.7 | 2416.3 | 2571.0 | 2760.9 | 2804.1 | 3023.1 |
| 17.5° | 2362.1 | 2366.1 | 2350.0 | 2302.8 | 2298.8 | 2337.9 | 2454.5 | 2611.2 | 2825.2 | 2872.5 | 3125.6 |
| 20° | 2631.3 | 2624.3 | 2591.1 | 2497.7 | 2444.4 | 2436.4 | 2519.8 | 2671.6 | 2891.5 | 2941.7 | 3236.1 |
| 22.5° | 2997.0 | 2989.0 | 2922.7 | 2775.0 | 2656.4 | 2578.1 | 2614.3 | 2749.9 | 2965.9 | 3022.1 | 3343.7 |
| 25° | 3453.1 | 3442.2 | 3344.7 | 3143.7 | 2959.9 | 2766.0 | 2742.8 | 2853.4 | 3057.3 | 3109.5 | 3456.2 |
| 27.5° | 3985.7 | 3976.6 | 3871.1 | 3605.8 | 3340.7 | 3023.1 | 2902.6 | 2975.0 | 3152.8 | 3212.0 | 3582.8 |
| 30° | 4558.4 | 4584.5 | 4397.6 | 4112.3 | 3776.7 | 3358.7 | 3117.6 | 3124.6 | 3276.3 | 3329.6 | 3736.5 |
| 32.5° | 5231.5 | 5276.7 | 5051.6 | 4690.0 | 4231.8 | 3723.4 | 3388.9 | 3333.6 | 3456.2 | 3500.4 | 3930.4 |
| 35° | 5898.7 | 5949.8 | 5763.0 | 5363.1 | 4835.6 | 4153.4 | 3672.2 | 3573.8 | 3695.3 | 3743.5 | 4187.6 |
| 37.5° | 6475.3 | 6543.6 | 6447.1 | 6099.6 | 5481.7 | 4671.8 | 4041.9 | 3856.0 | 3989.7 | 4050.0 | 4533.3 |
| 40° | 6930.4 | 7035.0 | 7027.9 | 6810.9 | 6243.3 | 5300.8 | 4511.1 | 4204.7 | 4355.4 | 4420.7 | 4952.2 |
| 42.5° | 7300.2 | 7390.7 | 7469.0 | 7457.9 | 7038.0 | 6015.2 | 5062.7 | 4657.8 | 4772.4 | 4847.7 | 5423.4 |
| 45° | 7555.4 | 7651.8 | 7820.6 | 8002.5 | 7802.5 | 6779.8 | 5694.7 | 5195.3 | 5299.9 | 5413.3 | 5985.1 |
| 47.5° | 7783.4 | 7893.0 | 8112.0 | 8400.4 | 8451.5 | 7547.4 | 6386.9 | 5821.3 | 5916.7 | 6034.3 | 6548.6 |
| 50° | 7803.5 | 7898.0 | 8237.6 | 8646.5 | 8912.8 | 8284.8 | 7130.4 | 6523.5 | 6613.0 | 6738.6 | 7152.4 |
| 52.5° | 7318.3 | 7466.9 | 8059.8 | 8639.4 | 9124.8 | 8901.7 | 7868.8 | 7253.9 | 7354.5 | 7505.2 | 7777.4 |
| 55° | 5680.7 | 5898.7 | 7538.3 | 8370.2 | 9049.4 | 9300.5 | 8571.2 | 8030.6 | 8159.2 | 8317.0 | 8406.3 |
| 57.5° | 4892.9 | 4988.4 | 5984.1 | 7879.9 | 8705.7 | 9404.1 | 9163.9 | 8815.3 | 9022.3 | 9195.1 | 9071.5 |
| 60° | 4397.6 | 4477.0 | 5065.8 | 7117.3 | 8253.6 | 9240.3 | 9622.1 | 9546.7 | 9904.4 | 10110.4 | 9751.6 |
| 62.5° | 3867.1 | 3942.5 | 4478.0 | 5942.8 | 7674.9 | 8968.0 | 9911.4 | 10221.9 | 10808.6 | 11033.7 | 10392.7 |
| 65° | 3340.7 | 3404.9 | 3918.4 | 4993.4 | 6939.5 | 8695.7 | 10061.1 | 10805.7 | 11645.5 | 11878.6 | 10925.2 |
| 67.5° | 2753.9 | 2807.2 | 3292.4 | 4212.8 | 6045.3 | 8323.0 | 10135.5 | 11264.7 | 12373.9 | 12573.9 | 11188.4 |
| 70° | 1987.3 | 2028.5 | 2529.8 | 3331.6 | 4923.1 | 7682.0 | 10105.4 | 11590.3 | 12751.7 | 12911.5 | 10989.4 |
| 72.5° | 939.4 | 976.6 | 1565.4 | 2163.2 | 3477.3 | 6434.1 | 9495.5 | 11332.1 | 12368.0 | 12288.5 | 9771.7 |
| 75° | 501.3 | 533.5 | 899.2 | 1186.5 | 1836.6 | 4410.7 | 7770.4 | 9761.7 | 10385.6 | 9999.8 | 7221.8 |
| 77.5° | 339.6 | 364.7 | 556.6 | 712.4 | 839.0 | 2093.8 | 4994.4 | 6758.6 | 6502.5 | 5865.5 | 3616.9 |
| 80° | 269.3 | 295.4 | 456.1 | 482.3 | 405.9 | 756.6 | 2063.6 | 3128.6 | 2247.5 | 1797.4 | 1028.8 |
| 82.5° | 206.9 | 236.1 | 383.8 | 349.6 | 221.0 | 310.5 | 600.9 | 989.6 | 575.7 | 438.1 | 249.2 |
| 85° | 126.6 | 157.7 | 301.5 | 223.0 | 124.5 | 141.7 | 204.0 | 275.3 | 175.8 | 146.7 | 89.4 |
| 87.5° | 64.3 | 90.4 | 152.7 | 81.4 | 56.3 | 33.1 | 54.2 | 54.2 | 46.2 | 40.2 | 23.1 |
| 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-722-U-T3R

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2736.9 | 2736.9 | 2736.9 | 2736.9 | 2736.9 | 2736.9 | 2736.9 | 2736.9 | 2736.9 | 2736.9 | 2736.9 |
| 2.5° | 2746.9 | 2767.0 | 2801.1 | 2833.3 | 2858.4 | 2882.5 | 2906.6 | 2919.7 | 2923.7 | 2939.8 | 2948.8 |
| 5° | 2779.0 | 2816.2 | 2882.5 | 2944.8 | 2984.0 | 3008.1 | 3025.2 | 3035.2 | 3037.2 | 3042.2 | 3050.3 |
| 7.5° | 2838.3 | 2897.6 | 2990.0 | 3052.2 | 3081.5 | 3079.4 | 3072.4 | 3047.2 | 3037.2 | 3028.2 | 3030.2 |
| 10° | 2921.7 | 3000.1 | 3113.5 | 3156.8 | 3138.7 | 3090.5 | 3028.2 | 2954.9 | 2920.6 | 2887.5 | 2877.5 |
| 12.5° | 3025.2 | 3124.6 | 3236.1 | 3234.2 | 3144.7 | 3021.2 | 2876.5 | 2763.9 | 2692.6 | 2641.3 | 2629.3 |
| 15° | 3150.7 | 3265.3 | 3350.7 | 3282.4 | 3086.5 | 2864.5 | 2652.4 | 2505.7 | 2441.4 | 2385.2 | 2379.1 |
| 17.5° | 3280.4 | 3402.9 | 3442.2 | 3267.3 | 2939.8 | 2632.3 | 2392.2 | 2276.6 | 2213.4 | 2183.2 | 2192.3 |
| 20° | 3407.0 | 3528.6 | 3496.4 | 3180.9 | 2716.8 | 2369.1 | 2155.1 | 2091.8 | 2078.7 | 2085.8 | 2082.8 |
| 22.5° | 3540.6 | 3649.1 | 3507.4 | 3014.1 | 2432.4 | 2099.8 | 1982.2 | 1984.3 | 2013.4 | 2034.5 | 2039.5 |
| 25° | 3677.2 | 3750.6 | 3478.3 | 2773.0 | 2127.0 | 1901.9 | 1872.8 | 1905.0 | 1962.2 | 2003.4 | 2014.4 |
| 27.5° | 3808.8 | 3841.0 | 3415.0 | 2474.6 | 1864.8 | 1760.2 | 1765.3 | 1831.6 | 1918.0 | 1975.3 | 1989.3 |
| 30° | 3957.5 | 3921.3 | 3293.4 | 2139.0 | 1682.8 | 1638.7 | 1680.9 | 1758.3 | 1844.6 | 1895.8 | 1907.9 |
| 32.5° | 4125.3 | 3990.7 | 3100.5 | 1828.6 | 1554.3 | 1541.2 | 1610.6 | 1660.8 | 1698.9 | 1714.0 | 1722.1 |
| 35° | 4334.3 | 4088.1 | 2853.4 | 1610.6 | 1438.7 | 1469.8 | 1536.2 | 1511.1 | 1496.0 | 1488.0 | 1496.0 |
| 37.5° | 4605.5 | 4219.7 | 2564.0 | 1468.9 | 1345.3 | 1418.6 | 1445.8 | 1367.5 | 1308.1 | 1279.0 | 1286.1 |
| 40° | 4932.1 | 4412.6 | 2285.8 | 1359.4 | 1286.1 | 1374.4 | 1327.2 | 1232.8 | 1157.4 | 1116.2 | 1119.2 |
| 42.5° | 5294.8 | 4614.7 | 2051.6 | 1276.9 | 1252.9 | 1338.2 | 1239.8 | 1127.3 | 1005.7 | 992.6 | 1005.7 |
| 45° | 5675.6 | 4822.6 | 1891.8 | 1213.7 | 1236.8 | 1307.1 | 1189.6 | 1007.7 | 921.3 | 974.6 | 1002.7 |
| 47.5° | 6056.3 | 5013.5 | 1795.4 | 1166.4 | 1228.8 | 1271.9 | 1145.3 | 941.4 | 880.2 | 957.5 | 993.6 |
| 50° | 6480.4 | 5184.2 | 1752.2 | 1132.3 | 1219.8 | 1257.9 | 1079.0 | 924.3 | 836.9 | 888.2 | 926.3 |
| 52.5° | 6901.3 | 5316.9 | 1720.1 | 1098.2 | 1206.6 | 1246.8 | 1046.9 | 904.3 | 784.6 | 787.7 | 808.8 |
| 55° | 7321.3 | 5403.3 | 1684.9 | 1052.9 | 1177.5 | 1222.7 | 1043.9 | 882.1 | 745.5 | 731.4 | 741.5 |
| 57.5° | 7769.4 | 5452.5 | 1641.6 | 1002.7 | 1127.3 | 1161.4 | 1040.9 | 865.1 | 733.4 | 710.3 | 713.3 |
| 60° | 8225.5 | 5524.9 | 1585.5 | 941.4 | 1060.0 | 1088.1 | 1033.8 | 859.1 | 726.4 | 687.3 | 690.2 |
| 62.5° | 8634.4 | 5550.0 | 1518.1 | 883.1 | 973.5 | 1015.8 | 1018.7 | 854.0 | 707.4 | 640.0 | 640.0 |
| 65° | 8902.7 | 5441.5 | 1400.6 | 816.8 | 880.2 | 941.4 | 989.6 | 836.9 | 673.1 | 605.9 | 605.9 |
| 67.5° | 8891.7 | 5132.1 | 1216.7 | 731.4 | 789.7 | 859.1 | 947.4 | 807.8 | 631.9 | 563.6 | 566.6 |
| 70° | 8477.7 | 4521.2 | 983.6 | 631.9 | 690.2 | 770.6 | 893.2 | 764.5 | 582.7 | 517.4 | 523.5 |
| 72.5° | 7271.0 | 3538.6 | 714.3 | 515.4 | 574.7 | 679.2 | 822.9 | 712.4 | 532.5 | 476.2 | 473.2 |
| 75° | 5194.3 | 2239.5 | 484.3 | 395.9 | 447.1 | 575.7 | 735.4 | 651.1 | 486.3 | 478.3 | 451.1 |
| 77.5° | 2653.4 | 1070.0 | 320.5 | 289.4 | 311.5 | 454.2 | 617.9 | 581.7 | 493.3 | 394.8 | 351.7 |
| 80° | 863.0 | 394.8 | 201.9 | 196.9 | 206.9 | 302.4 | 478.3 | 477.2 | 373.7 | 268.2 | 237.1 |
| 82.5° | 275.3 | 169.8 | 131.6 | 126.6 | 121.6 | 189.9 | 333.5 | 377.8 | 252.2 | 169.8 | 168.8 |
| 85° | 109.5 | 101.5 | 77.4 | 71.3 | 51.2 | 89.4 | 174.9 | 251.2 | 187.9 | 122.6 | 125.6 |
| 87.5° | 40.2 | 40.2 | 21.1 | 15.1 | 11.1 | 30.1 | 47.3 | 75.3 | 107.5 | 63.3 | 62.3 |
| 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)