

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: P968742

Luminaire Tested: **NVN-SB5C-730-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5C-730-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38542 lumens
Efficiency: N/A
Efficacy: 154.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

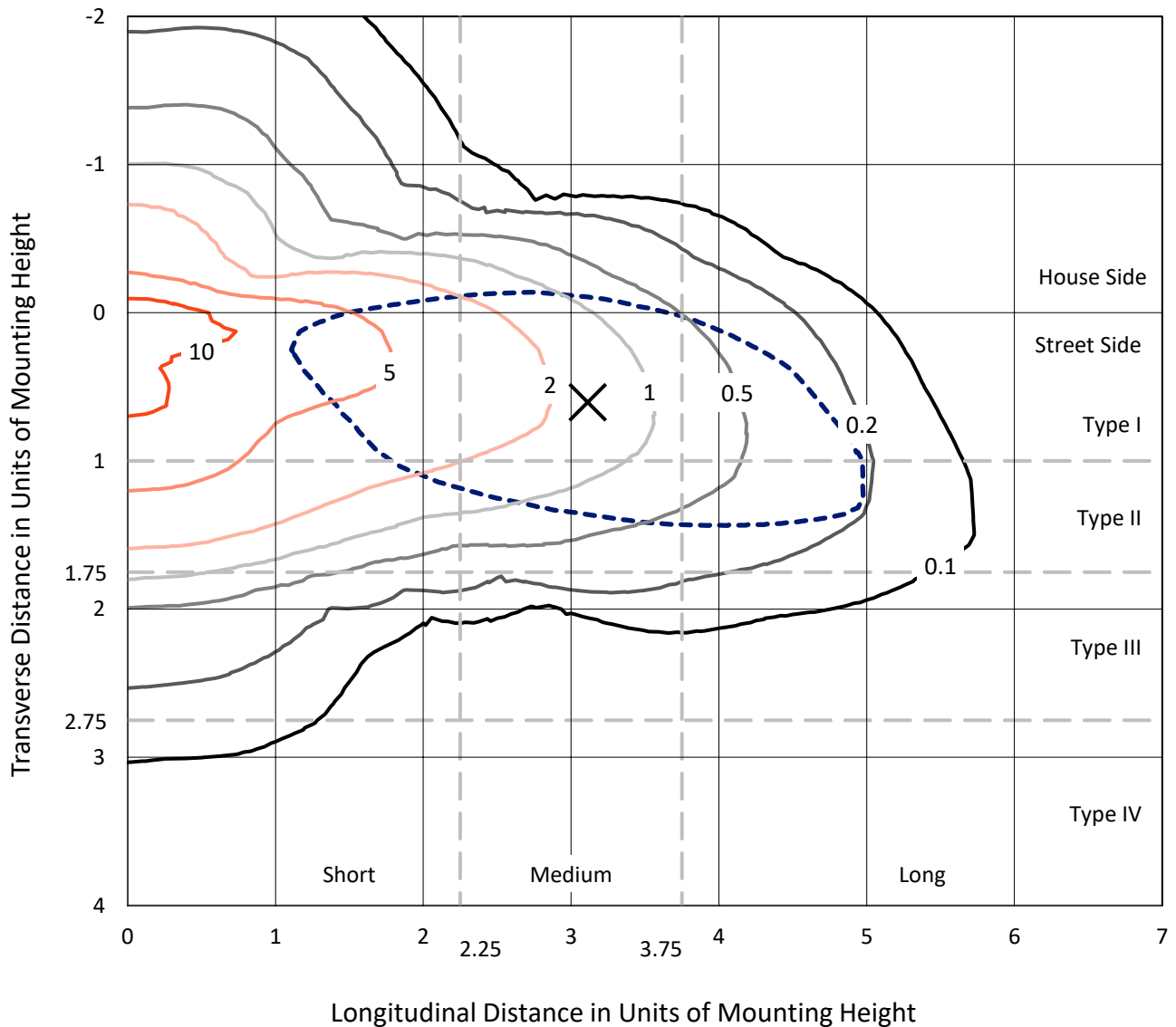
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

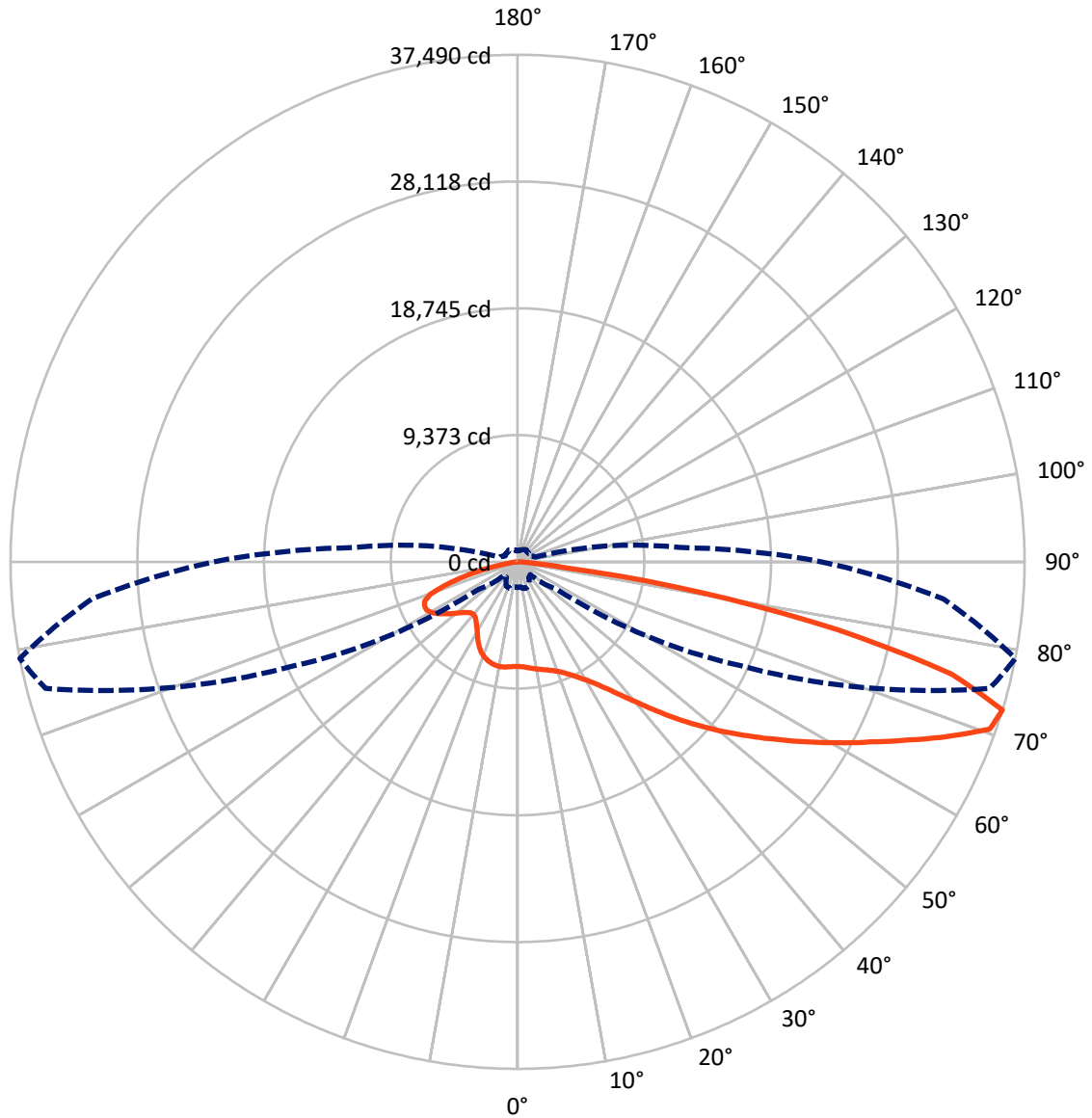
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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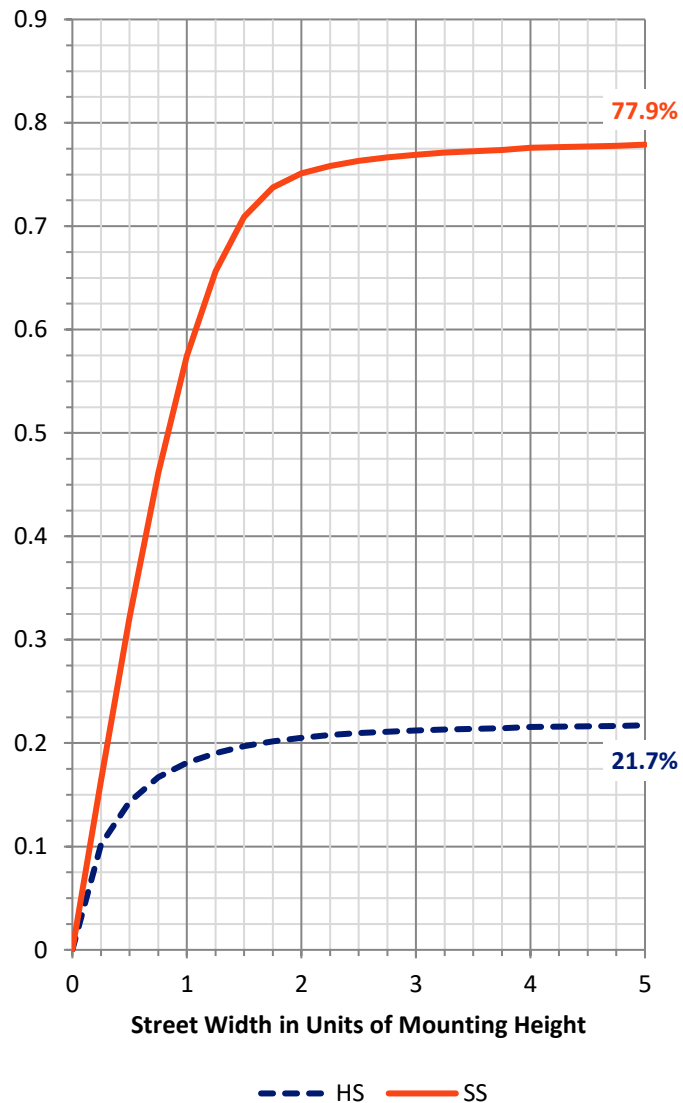
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8481.4 | 0.0 | 8481.4 |
| | % Fixture | 22.0 | 0.0 | 22.0 |
| Street Side | Lumens | 30060.7 | 0.0 | 30060.7 |
| | % Fixture | 78.0 | 0.0 | 78.0 |
| Total | Lumens | 38542.0 | 0.0 | 38542.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 702.3 | 1.8 |
| 10°-20° | 1836.1 | 4.8 |
| 20°-30° | 2962.8 | 7.7 |
| 30°-40° | 4446.7 | 11.5 |
| 40°-50° | 6307.9 | 16.4 |
| 50°-60° | 7966.1 | 20.7 |
| 60°-70° | 8090.6 | 21.0 |
| 70°-80° | 5514.1 | 14.3 |
| 80°-90° | 715.4 | 1.9 |
| 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° | 38542.0 | 100.0 |
| 0°-180° | 38542.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P968742

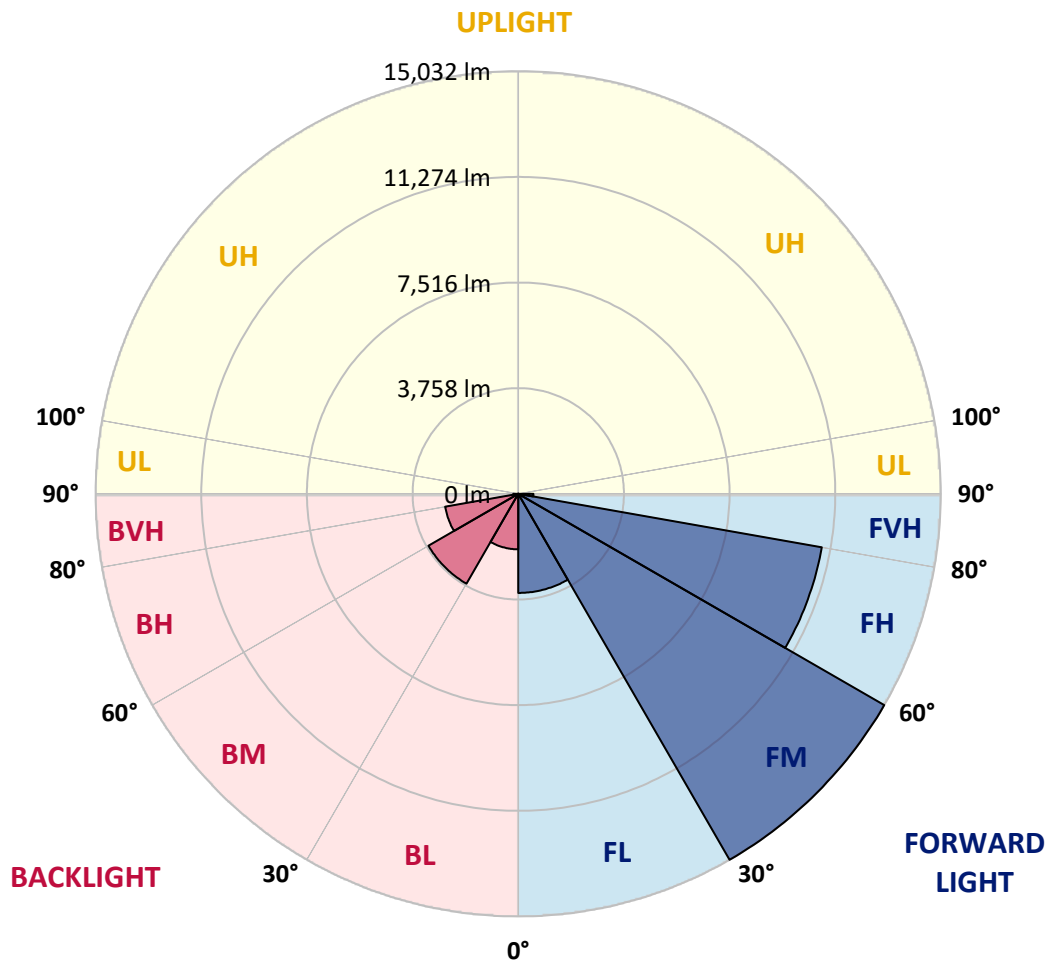
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3525.7 | 9.1 | | | |
| FM (30°-60°) | 15032.2 | 39.0 | | | |
| FH (60°-80°) | 10963.9 | 28.4 | | | G4/12000 |
| FVH (80°-90°) | 538.9 | 1.4 | | | G4/750 |
| BL (0°-30°) | 1975.6 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 3688.5 | 9.6 | B3/5000 | | |
| BH (60°-80°) | 2640.8 | 6.9 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 176.5 | 0.5 | | | 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 Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7736.9 | 7736.9 | 7736.9 | 7736.9 | 7736.9 | 7736.9 | 7736.9 | 7736.9 | 7736.9 | 7736.9 | 7736.9 |
| 2.5° | 7741.0 | 7704.3 | 7726.8 | 7718.6 | 7728.8 | 7741.0 | 7745.1 | 7751.3 | 7771.7 | 7769.6 | 7767.6 |
| 5° | 7724.7 | 7688.0 | 7718.6 | 7708.4 | 7735.0 | 7763.5 | 7787.9 | 7810.3 | 7843.0 | 7857.2 | 7836.8 |
| 7.5° | 7690.1 | 7665.6 | 7696.2 | 7726.8 | 7775.6 | 7818.5 | 7853.1 | 7904.1 | 7951.0 | 7959.1 | 7973.5 |
| 10° | 7488.2 | 7469.9 | 7541.2 | 7620.8 | 7755.3 | 7871.5 | 7946.9 | 8006.1 | 8057.0 | 8065.2 | 8085.6 |
| 12.5° | 7278.2 | 7255.8 | 7335.3 | 7443.3 | 7661.6 | 7871.5 | 8030.6 | 8108.0 | 8152.8 | 8179.4 | 8209.9 |
| 15° | 7243.6 | 7225.2 | 7270.1 | 7363.9 | 7545.3 | 7816.4 | 8087.7 | 8230.3 | 8269.1 | 8299.6 | 8311.8 |
| 17.5° | 7410.7 | 7376.1 | 7394.5 | 7427.0 | 7533.0 | 7765.5 | 8132.5 | 8368.9 | 8428.1 | 8460.7 | 8460.7 |
| 20° | 7798.1 | 7749.2 | 7720.6 | 7655.4 | 7637.1 | 7773.6 | 8128.4 | 8536.1 | 8613.6 | 8654.4 | 8664.5 |
| 22.5° | 8313.9 | 8281.3 | 8220.1 | 8055.0 | 7875.6 | 7873.5 | 8205.8 | 8750.2 | 8894.9 | 8933.7 | 8909.2 |
| 25° | 8937.8 | 8888.8 | 8811.3 | 8587.1 | 8242.5 | 8071.3 | 8336.3 | 9023.4 | 9266.0 | 9276.1 | 9204.8 |
| 27.5° | 9655.4 | 9582.0 | 9476.0 | 9180.4 | 8715.6 | 8381.2 | 8536.1 | 9337.3 | 9692.1 | 9688.0 | 9541.2 |
| 30° | 10411.7 | 10338.4 | 10226.2 | 9867.4 | 9282.3 | 8799.1 | 8813.4 | 9675.8 | 10197.7 | 10175.3 | 9924.5 |
| 32.5° | 10964.2 | 10909.2 | 10886.7 | 10609.5 | 9934.7 | 9292.4 | 9131.4 | 10050.9 | 10821.5 | 10801.1 | 10450.5 |
| 35° | 11388.3 | 11316.9 | 11343.5 | 11202.7 | 10646.2 | 9845.0 | 9520.8 | 10497.3 | 11579.9 | 11577.9 | 11141.6 |
| 37.5° | 11808.3 | 11745.1 | 11767.5 | 11673.7 | 11304.7 | 10546.3 | 9995.9 | 11043.8 | 12519.8 | 12564.7 | 11977.5 |
| 40° | 12191.6 | 12124.3 | 12214.0 | 12126.4 | 11816.4 | 11292.5 | 10536.1 | 11661.5 | 13608.5 | 13694.1 | 12988.7 |
| 42.5° | 12422.0 | 12368.9 | 12517.7 | 12519.8 | 12260.8 | 11922.5 | 11129.3 | 12342.4 | 14868.4 | 15060.0 | 14232.3 |
| 45° | 12501.4 | 12483.1 | 12707.3 | 12754.3 | 12654.3 | 12287.4 | 11663.6 | 13084.5 | 16226.2 | 16568.7 | 15649.2 |
| 47.5° | 12415.8 | 12381.2 | 12691.0 | 12864.4 | 12943.8 | 12458.7 | 12106.0 | 13887.7 | 17612.5 | 18114.0 | 17194.6 |
| 50° | 11983.6 | 11916.3 | 12377.1 | 12742.0 | 13025.4 | 12570.8 | 12552.5 | 14815.4 | 19188.4 | 19736.9 | 18748.1 |
| 52.5° | 11206.8 | 11155.9 | 11679.9 | 12313.8 | 12846.0 | 12625.8 | 13053.9 | 15828.7 | 20684.9 | 21394.3 | 20340.3 |
| 55° | 10214.0 | 10146.7 | 10723.7 | 11551.4 | 12399.5 | 12607.5 | 13555.4 | 16962.2 | 22450.4 | 23170.1 | 21985.5 |
| 57.5° | 8640.1 | 8505.6 | 9235.5 | 10214.0 | 11671.7 | 12585.1 | 14077.4 | 18089.6 | 24244.5 | 25106.9 | 23740.9 |
| 60° | 6344.5 | 6144.7 | 7039.7 | 8199.7 | 10248.7 | 12366.9 | 14723.6 | 19353.5 | 26397.3 | 27174.1 | 25657.3 |
| 62.5° | 3694.2 | 3578.0 | 4163.0 | 5245.6 | 7724.7 | 11082.5 | 15086.6 | 20823.5 | 28513.6 | 29329.0 | 27541.1 |
| 65° | 2868.5 | 2835.9 | 2886.8 | 2970.4 | 4299.7 | 8297.6 | 13967.3 | 22256.7 | 31204.7 | 31775.5 | 29504.4 |
| 67.5° | 2623.8 | 2599.4 | 2621.8 | 2464.8 | 2181.4 | 4621.8 | 11049.9 | 22619.6 | 34087.4 | 34434.1 | 31223.0 |
| 70° | 2332.3 | 2303.8 | 2377.2 | 2242.6 | 1716.6 | 2102.0 | 7139.6 | 21302.6 | 36381.0 | 37031.3 | 32529.8 |
| 72.5° | 1900.0 | 1867.4 | 2038.7 | 1977.5 | 1445.5 | 1349.6 | 3586.1 | 18173.1 | 36140.5 | 37490.1 | 31594.1 |
| 75° | 1459.7 | 1441.4 | 1645.2 | 1696.2 | 1178.3 | 1062.2 | 1720.7 | 13508.6 | 31804.1 | 33163.9 | 27229.1 |
| 77.5° | 1133.5 | 1119.3 | 1223.2 | 1408.8 | 950.1 | 823.7 | 1058.1 | 8568.8 | 23967.2 | 24205.8 | 18764.4 |
| 80° | 850.1 | 809.3 | 905.2 | 1090.7 | 740.0 | 601.5 | 717.6 | 4996.9 | 15149.7 | 13732.8 | 8167.1 |
| 82.5° | 532.1 | 511.7 | 591.2 | 727.9 | 521.9 | 413.9 | 466.9 | 2760.4 | 6071.3 | 3575.9 | 1575.9 |
| 85° | 303.8 | 295.6 | 322.2 | 415.9 | 283.4 | 238.5 | 267.1 | 1219.1 | 1109.0 | 762.5 | 475.0 |
| 87.5° | 122.3 | 118.3 | 146.8 | 185.5 | 103.9 | 87.6 | 93.8 | 293.6 | 244.7 | 226.3 | 157.0 |
| 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: P968742
 CATALOG NUMBER: NVN-SB5C-730-U-SL2

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7736.9 | 7736.9 | 7736.9 | 7736.9 | 7736.9 | 7736.9 | 7736.9 | 7736.9 | 7736.9 | 7736.9 | 7736.9 |
| 2.5° | 7759.4 | 7759.4 | 7730.9 | 7686.0 | 7635.0 | 7602.4 | 7549.4 | 7535.1 | 7480.0 | 7463.7 | 7490.3 |
| 5° | 7853.1 | 7836.8 | 7749.2 | 7622.8 | 7449.5 | 7290.5 | 7115.1 | 7005.1 | 6850.1 | 6795.0 | 6835.8 |
| 7.5° | 7971.4 | 7926.5 | 7775.6 | 7498.4 | 7135.5 | 6778.7 | 6407.7 | 6126.3 | 5857.3 | 5761.4 | 5773.6 |
| 10° | 8079.5 | 8016.2 | 7759.4 | 7274.1 | 6646.2 | 6028.5 | 5437.3 | 5023.4 | 4709.5 | 4581.0 | 4609.5 |
| 12.5° | 8187.5 | 8071.3 | 7651.3 | 6901.1 | 5951.0 | 5113.1 | 4483.1 | 4161.0 | 3967.4 | 3812.4 | 3863.3 |
| 15° | 8289.5 | 8126.3 | 7484.1 | 6401.6 | 5188.5 | 4338.4 | 3873.6 | 3616.7 | 3461.7 | 3359.8 | 3378.2 |
| 17.5° | 8407.7 | 8173.2 | 7233.4 | 5767.6 | 4462.7 | 3802.2 | 3423.0 | 3268.1 | 3237.5 | 3225.3 | 3233.4 |
| 20° | 8572.8 | 8216.1 | 6903.1 | 5058.1 | 3928.6 | 3374.1 | 3178.3 | 3164.1 | 3162.0 | 3156.0 | 3176.4 |
| 22.5° | 8750.2 | 8267.0 | 6466.8 | 4413.9 | 3474.0 | 3107.0 | 3072.3 | 3043.8 | 3025.5 | 3023.4 | 3045.9 |
| 25° | 8960.1 | 8283.3 | 5920.4 | 3885.8 | 3086.6 | 2980.6 | 2939.8 | 2897.1 | 2884.8 | 2884.8 | 2897.1 |
| 27.5° | 9164.0 | 8228.3 | 5284.4 | 3427.1 | 2868.5 | 2864.4 | 2811.4 | 2797.1 | 2795.1 | 2801.2 | 2817.5 |
| 30° | 9367.9 | 8124.4 | 4652.4 | 3003.0 | 2742.1 | 2742.1 | 2723.7 | 2733.9 | 2742.1 | 2762.5 | 2776.7 |
| 32.5° | 9643.2 | 8014.2 | 4124.3 | 2689.1 | 2632.0 | 2611.6 | 2629.9 | 2650.3 | 2658.5 | 2685.0 | 2707.4 |
| 35° | 10046.8 | 7936.8 | 3704.3 | 2517.8 | 2517.8 | 2491.4 | 2501.5 | 2497.4 | 2479.1 | 2466.9 | 2495.4 |
| 37.5° | 10581.0 | 7932.7 | 3357.8 | 2438.3 | 2422.0 | 2418.0 | 2419.9 | 2393.5 | 2322.1 | 2236.4 | 2238.5 |
| 40° | 11223.1 | 8042.8 | 3090.7 | 2383.2 | 2371.0 | 2395.5 | 2383.2 | 2311.9 | 2116.2 | 1967.4 | 1963.3 |
| 42.5° | 12085.6 | 8356.7 | 2919.4 | 2316.0 | 2352.7 | 2383.2 | 2334.3 | 2087.6 | 1955.1 | 1855.2 | 1851.2 |
| 45° | 13100.8 | 8866.4 | 2831.8 | 2244.6 | 2318.0 | 2354.7 | 2118.3 | 2010.2 | 1904.1 | 1783.9 | 1775.7 |
| 47.5° | 14250.7 | 9508.6 | 2811.4 | 2177.3 | 2240.5 | 2263.0 | 2026.5 | 1977.5 | 1857.3 | 1726.8 | 1716.6 |
| 50° | 15502.4 | 10269.1 | 2866.4 | 2097.9 | 2128.4 | 2050.9 | 1995.9 | 1951.1 | 1826.7 | 1698.2 | 1684.0 |
| 52.5° | 16797.0 | 11107.0 | 2976.5 | 1989.8 | 2016.3 | 1930.7 | 1983.7 | 1944.9 | 1808.3 | 1635.1 | 1622.8 |
| 55° | 18069.2 | 11951.0 | 3082.6 | 1863.3 | 1902.1 | 1822.7 | 1949.0 | 1920.4 | 1724.8 | 1529.0 | 1518.8 |
| 57.5° | 19361.7 | 12791.0 | 3186.5 | 1751.2 | 1792.0 | 1718.6 | 1894.0 | 1855.2 | 1631.0 | 1431.2 | 1427.1 |
| 60° | 20705.3 | 13606.5 | 3235.4 | 1643.2 | 1671.8 | 1622.8 | 1810.4 | 1743.1 | 1525.0 | 1331.3 | 1325.1 |
| 62.5° | 21963.2 | 14285.3 | 3156.0 | 1535.1 | 1553.5 | 1533.1 | 1700.3 | 1610.6 | 1418.9 | 1219.1 | 1217.1 |
| 65° | 23225.2 | 14689.0 | 2911.3 | 1429.2 | 1433.3 | 1423.0 | 1545.4 | 1467.9 | 1294.6 | 1121.2 | 1109.0 |
| 67.5° | 24368.9 | 14915.3 | 2521.9 | 1315.0 | 1304.8 | 1300.7 | 1400.6 | 1312.9 | 1174.3 | 1023.5 | 1011.2 |
| 70° | 24611.5 | 14340.4 | 1926.6 | 1180.4 | 1180.4 | 1170.2 | 1241.6 | 1151.9 | 1041.8 | 919.4 | 915.4 |
| 72.5° | 22479.0 | 12063.1 | 1368.0 | 1027.6 | 1043.9 | 1023.5 | 1082.6 | 1007.2 | 907.2 | 825.6 | 801.2 |
| 75° | 18126.3 | 8846.1 | 994.9 | 870.5 | 899.0 | 864.4 | 919.4 | 866.4 | 780.8 | 778.8 | 701.3 |
| 77.5° | 12454.6 | 5469.9 | 721.7 | 717.6 | 738.0 | 693.2 | 756.3 | 727.9 | 650.4 | 615.7 | 577.0 |
| 80° | 5314.9 | 2181.4 | 526.0 | 554.5 | 554.5 | 513.7 | 587.1 | 595.3 | 528.1 | 511.7 | 511.7 |
| 82.5° | 1058.1 | 619.8 | 369.0 | 381.2 | 358.9 | 346.6 | 415.9 | 460.7 | 636.1 | 707.5 | 709.5 |
| 85° | 318.1 | 228.4 | 222.2 | 208.0 | 183.5 | 185.5 | 244.7 | 462.8 | 570.8 | 326.2 | 281.4 |
| 87.5° | 87.6 | 57.1 | 59.1 | 46.8 | 38.7 | 50.9 | 83.5 | 350.7 | 191.7 | 81.6 | 69.3 |
| 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)