

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: P968723

Luminaire Tested: **NVN-SB5C-727-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968723
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5C-727-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36633.5 lumens
Efficiency: N/A
Efficacy: 146.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

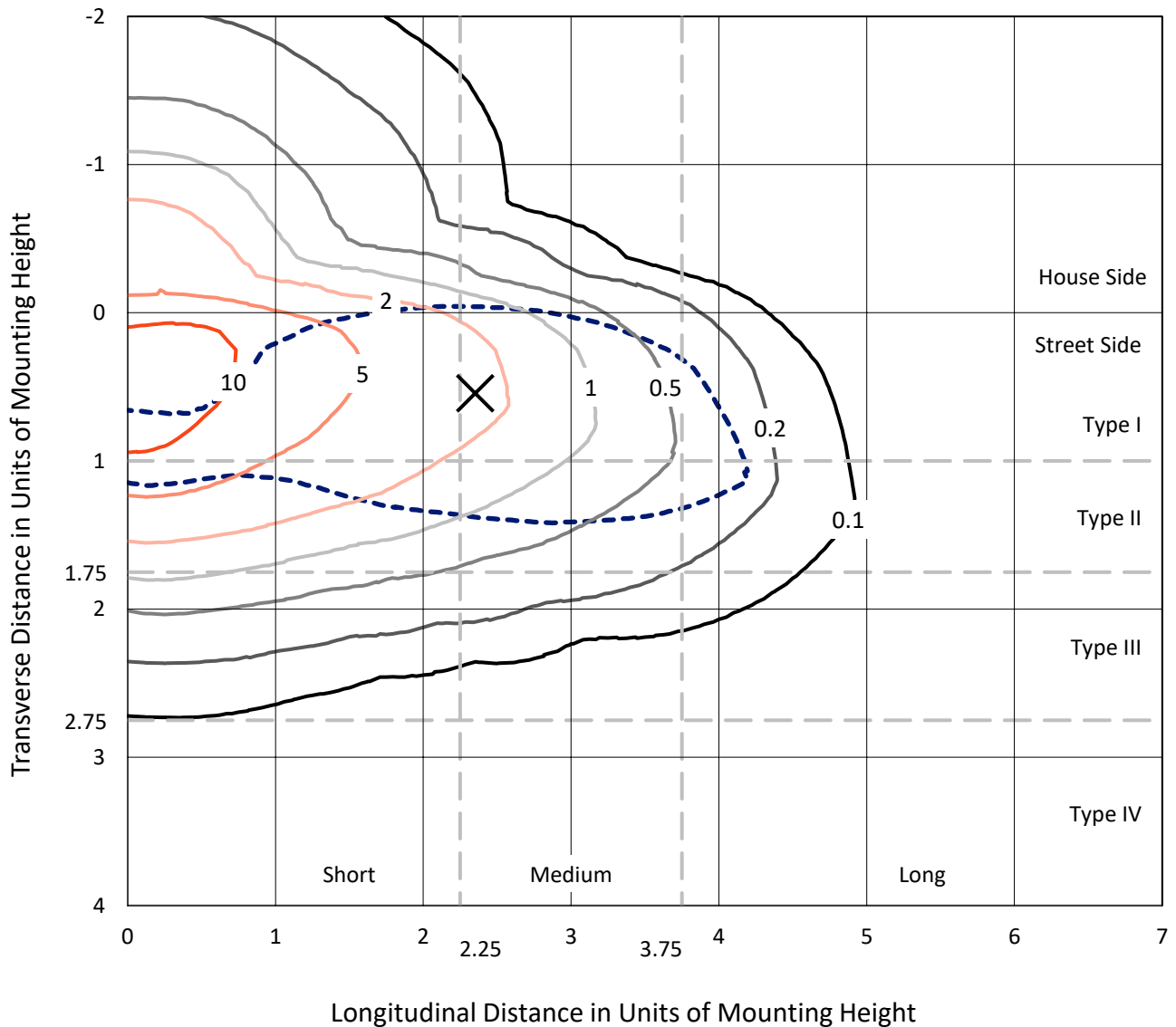
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

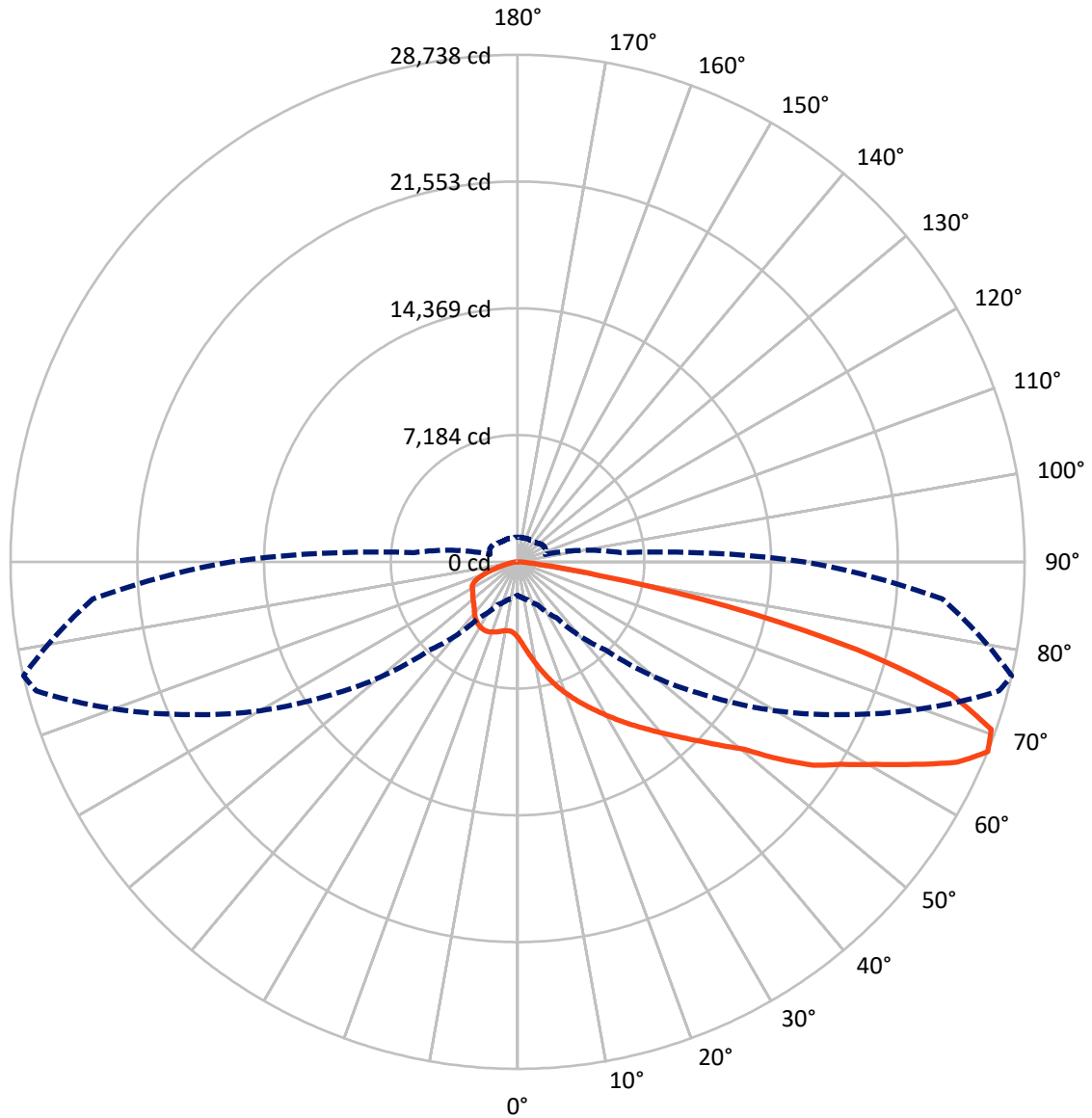
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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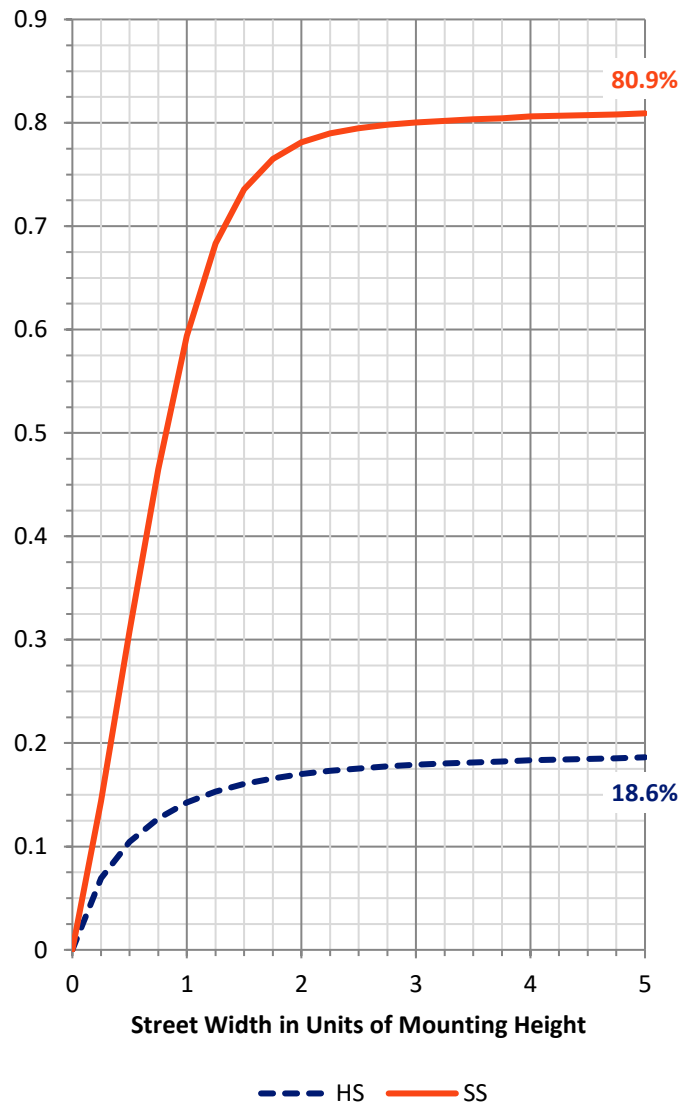
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6929.6 | 0.0 | 6929.6 |
| | % Fixture | 18.9 | 0.0 | 18.9 |
| Street Side | Lumens | 29703.9 | 0.0 | 29703.9 |
| | % Fixture | 81.1 | 0.0 | 81.1 |
| Total | Lumens | 36633.5 | 0.0 | 36633.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 460.7 | 1.3 |
| 10°-20° | 1655.2 | 4.5 |
| 20°-30° | 3125.1 | 8.5 |
| 30°-40° | 5034.5 | 13.7 |
| 40°-50° | 6886.3 | 18.8 |
| 50°-60° | 7767.8 | 21.2 |
| 60°-70° | 7250.2 | 19.8 |
| 70°-80° | 3974.4 | 10.8 |
| 80°-90° | 479.4 | 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° | 36633.5 | 100.0 |
| 0°-180° | 36633.5 | 100.0 |

Coefficient of Utilization

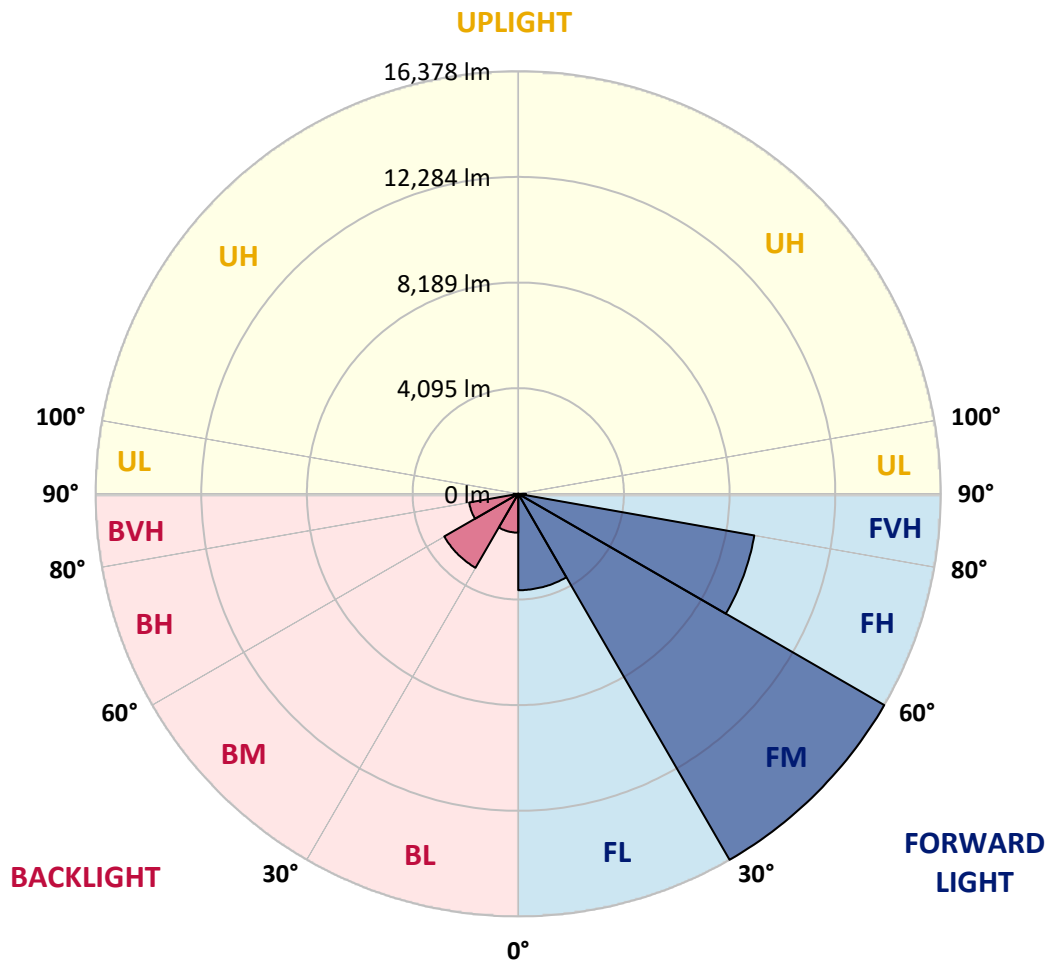


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3734.3 | 10.2 | | | |
| FM (30°-60°) | 16378.4 | 44.7 | | | |
| FH (60°-80°) | 9291.3 | 25.4 | | | G4/12000 |
| FVH (80°-90°) | 299.8 | 0.8 | | | G3/500 |
| BL (0°-30°) | 1506.7 | 4.1 | B3/2500 | | |
| BM (30°-60°) | 3310.1 | 9.0 | B3/5000 | | |
| BH (60°-80°) | 1933.2 | 5.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 179.6 | 0.5 | | | 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 II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4298.2 | 4298.2 | 4298.2 | 4298.2 | 4298.2 | 4298.2 | 4298.2 | 4298.2 | 4298.2 | 4298.2 | 4298.2 |
| 2.5° | 5381.8 | 5419.6 | 5372.3 | 5372.3 | 5213.5 | 5130.3 | 4971.5 | 4850.4 | 4633.0 | 4595.2 | 4451.4 |
| 5° | 6361.4 | 6408.6 | 6342.4 | 6314.1 | 6126.8 | 5954.7 | 5688.1 | 5425.3 | 5037.7 | 4997.9 | 4659.4 |
| 7.5° | 7119.6 | 7180.1 | 7121.5 | 7091.3 | 6924.9 | 6732.0 | 6420.0 | 6053.1 | 5506.6 | 5429.1 | 4939.3 |
| 10° | 7737.9 | 7747.5 | 7728.5 | 7739.9 | 7609.4 | 7450.5 | 7130.9 | 6703.6 | 6021.0 | 5915.1 | 5277.8 |
| 12.5° | 8087.9 | 8131.3 | 8169.1 | 8237.2 | 8214.6 | 8116.2 | 7828.7 | 7318.2 | 6565.5 | 6429.4 | 5646.5 |
| 15° | 8252.4 | 8328.0 | 8413.1 | 8570.0 | 8696.7 | 8721.3 | 8502.0 | 7978.1 | 7119.6 | 6955.1 | 6019.1 |
| 17.5° | 8310.9 | 8382.9 | 8517.0 | 8744.0 | 9016.3 | 9199.7 | 9101.4 | 8619.2 | 7668.0 | 7478.9 | 6410.5 |
| 20° | 8607.8 | 8628.7 | 8709.9 | 8925.5 | 9220.5 | 9525.0 | 9598.7 | 9235.7 | 8210.8 | 7997.0 | 6815.1 |
| 22.5° | 9243.2 | 9201.6 | 9224.3 | 9322.7 | 9534.4 | 9829.4 | 9997.7 | 9780.2 | 8768.6 | 8522.8 | 7223.6 |
| 25° | 10292.7 | 10171.7 | 10050.6 | 9937.2 | 10045.0 | 10211.5 | 10402.4 | 10324.8 | 9352.9 | 9040.9 | 7635.8 |
| 27.5° | 11618.3 | 11470.8 | 11204.2 | 10831.7 | 10701.2 | 10759.8 | 10844.9 | 10829.7 | 9893.7 | 9577.9 | 8061.3 |
| 30° | 12923.1 | 12751.0 | 12433.4 | 11894.4 | 11550.2 | 11395.1 | 11330.9 | 11287.4 | 10481.9 | 10145.2 | 8490.6 |
| 32.5° | 13965.0 | 13828.9 | 13516.9 | 12913.7 | 12414.4 | 12149.7 | 11936.0 | 11780.9 | 11096.4 | 10759.8 | 8944.5 |
| 35° | 14876.5 | 14749.9 | 14392.4 | 13734.4 | 13191.6 | 12909.9 | 12630.0 | 12299.1 | 11735.5 | 11395.1 | 9432.4 |
| 37.5° | 15708.5 | 15581.8 | 15092.1 | 14407.5 | 13861.1 | 13666.2 | 13416.6 | 12855.0 | 12376.6 | 12055.1 | 9948.5 |
| 40° | 16234.3 | 16205.9 | 15748.3 | 14973.0 | 14405.7 | 14309.2 | 14226.0 | 13499.9 | 13087.6 | 12788.8 | 10515.9 |
| 42.5° | 16368.5 | 16431.0 | 16067.8 | 15430.6 | 14889.8 | 14812.2 | 15007.0 | 14229.8 | 13885.7 | 13600.1 | 11158.8 |
| 45° | 16045.1 | 16224.8 | 15986.5 | 15553.5 | 15234.0 | 15192.3 | 15699.1 | 15027.8 | 14768.7 | 14507.7 | 11934.1 |
| 47.5° | 15226.4 | 15530.8 | 15432.5 | 15371.9 | 15326.6 | 15506.2 | 16308.0 | 15875.0 | 15769.1 | 15542.2 | 12819.1 |
| 50° | 13573.6 | 14150.3 | 14322.4 | 14704.4 | 15143.1 | 15750.1 | 16862.1 | 16799.6 | 16937.7 | 16708.9 | 13897.0 |
| 52.5° | 10716.3 | 11510.5 | 12509.0 | 13465.8 | 14579.6 | 15668.9 | 17470.9 | 18127.1 | 18709.5 | 18584.8 | 15610.2 |
| 55° | 8846.1 | 9203.5 | 9971.3 | 11726.1 | 13486.6 | 15326.6 | 17745.2 | 19199.4 | 20468.2 | 20356.6 | 16909.3 |
| 57.5° | 7408.9 | 7728.5 | 8201.2 | 9666.8 | 11833.9 | 14549.4 | 17915.4 | 19853.6 | 21672.8 | 21661.4 | 18191.4 |
| 60° | 5867.8 | 6206.3 | 6690.4 | 7728.5 | 9903.1 | 13206.7 | 17877.5 | 20598.7 | 23210.2 | 23304.7 | 19755.3 |
| 62.5° | 4128.1 | 4500.6 | 5037.7 | 6005.8 | 7930.8 | 11467.1 | 17106.0 | 21137.7 | 25019.8 | 25277.0 | 21636.8 |
| 65° | 2713.6 | 2959.4 | 3364.0 | 4199.9 | 5909.4 | 9230.0 | 15632.9 | 21207.6 | 26956.3 | 27391.2 | 23403.0 |
| 67.5° | 1902.3 | 1996.9 | 2235.1 | 2689.0 | 3895.5 | 7078.0 | 13286.2 | 20483.3 | 28247.8 | 28737.5 | 24168.9 |
| 70° | 1484.4 | 1531.8 | 1652.7 | 1834.2 | 2447.0 | 4759.7 | 10181.1 | 18599.9 | 27971.7 | 28482.3 | 23369.0 |
| 72.5° | 1282.1 | 1327.5 | 1372.9 | 1395.5 | 1641.4 | 2938.6 | 6896.5 | 15551.6 | 25371.6 | 25717.7 | 20318.8 |
| 75° | 1163.0 | 1174.3 | 1212.2 | 1204.6 | 1251.8 | 1906.1 | 3980.6 | 11330.9 | 20018.1 | 19899.0 | 14999.4 |
| 77.5° | 977.6 | 992.8 | 1055.1 | 1045.7 | 1111.9 | 1302.9 | 2066.9 | 7312.6 | 12977.9 | 12168.6 | 8348.7 |
| 80° | 828.3 | 835.8 | 903.9 | 892.6 | 966.3 | 943.6 | 1055.1 | 3727.2 | 5504.7 | 4663.2 | 2407.2 |
| 82.5° | 287.4 | 355.5 | 690.2 | 711.0 | 737.5 | 571.1 | 609.0 | 1520.4 | 1681.1 | 1287.8 | 504.9 |
| 85° | 139.9 | 149.3 | 351.7 | 499.2 | 497.3 | 287.4 | 296.8 | 542.7 | 529.5 | 416.0 | 168.3 |
| 87.5° | 22.7 | 28.4 | 41.6 | 194.7 | 155.1 | 75.6 | 102.1 | 105.9 | 109.7 | 94.5 | 37.8 |
| 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-SB5C-727-U-T2R

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4298.2 | 4298.2 | 4298.2 | 4298.2 | 4298.2 | 4298.2 | 4298.2 | 4298.2 | 4298.2 | 4298.2 | 4298.2 |
| 2.5° | 4345.5 | 4251.0 | 4052.4 | 3869.0 | 3725.3 | 3587.2 | 3509.7 | 3443.5 | 3405.7 | 3398.1 | 3398.1 |
| 5° | 4462.7 | 4268.0 | 3906.8 | 3602.4 | 3403.8 | 3256.3 | 3178.7 | 3129.6 | 3105.0 | 3089.9 | 3088.0 |
| 7.5° | 4631.1 | 4345.5 | 3831.1 | 3485.1 | 3277.1 | 3171.2 | 3131.5 | 3123.9 | 3122.0 | 3123.9 | 3129.6 |
| 10° | 4863.6 | 4472.2 | 3823.6 | 3456.7 | 3282.8 | 3224.1 | 3222.3 | 3224.1 | 3231.7 | 3233.6 | 3235.5 |
| 12.5° | 5115.2 | 4602.7 | 3853.9 | 3481.3 | 3354.6 | 3322.5 | 3316.8 | 3315.0 | 3320.6 | 3324.4 | 3326.2 |
| 15° | 5389.3 | 4774.8 | 3904.9 | 3534.3 | 3434.1 | 3400.0 | 3394.4 | 3383.0 | 3381.1 | 3379.2 | 3377.4 |
| 17.5° | 5671.1 | 4945.0 | 3961.6 | 3591.0 | 3485.1 | 3437.8 | 3417.0 | 3390.6 | 3369.8 | 3364.0 | 3369.8 |
| 20° | 5956.7 | 5113.3 | 4001.4 | 3619.4 | 3488.9 | 3422.7 | 3381.1 | 3335.8 | 3299.8 | 3279.0 | 3286.6 |
| 22.5° | 6261.1 | 5289.1 | 4025.9 | 3611.8 | 3454.9 | 3364.0 | 3288.4 | 3235.5 | 3180.7 | 3144.7 | 3146.6 |
| 25° | 6558.0 | 5442.3 | 4024.0 | 3572.1 | 3388.6 | 3273.3 | 3176.9 | 3108.8 | 3033.2 | 2995.4 | 2995.4 |
| 27.5° | 6843.5 | 5580.3 | 3976.8 | 3502.1 | 3294.1 | 3165.5 | 3050.2 | 2968.9 | 2895.1 | 2859.2 | 2857.3 |
| 30° | 7138.5 | 5695.7 | 3903.0 | 3400.0 | 3182.5 | 3040.8 | 2914.1 | 2844.1 | 2777.9 | 2743.8 | 2742.0 |
| 32.5° | 7431.7 | 5801.6 | 3799.1 | 3273.3 | 3054.0 | 2917.8 | 2793.0 | 2728.8 | 2689.0 | 2689.0 | 2690.9 |
| 35° | 7741.7 | 5875.3 | 3661.0 | 3125.8 | 2917.8 | 2787.4 | 2689.0 | 2651.2 | 2647.4 | 2624.7 | 2619.1 |
| 37.5° | 8068.9 | 5922.7 | 3492.7 | 2974.5 | 2783.6 | 2660.6 | 2630.4 | 2585.0 | 2547.2 | 2498.0 | 2490.4 |
| 40° | 8413.1 | 5969.9 | 3290.4 | 2817.6 | 2641.7 | 2573.7 | 2560.4 | 2499.9 | 2392.1 | 2271.1 | 2254.1 |
| 42.5° | 8831.0 | 6002.0 | 3080.4 | 2660.6 | 2492.4 | 2469.6 | 2488.6 | 2384.6 | 2212.5 | 2121.8 | 2123.6 |
| 45° | 9315.1 | 6055.0 | 2887.5 | 2505.6 | 2339.2 | 2339.2 | 2418.6 | 2282.5 | 2140.6 | 2083.9 | 2093.4 |
| 47.5° | 9942.9 | 6177.9 | 2707.9 | 2335.4 | 2197.4 | 2235.1 | 2263.5 | 2159.6 | 2080.1 | 2010.1 | 2008.3 |
| 50° | 10850.5 | 6472.9 | 2522.6 | 2163.3 | 2089.6 | 2165.2 | 2125.4 | 2065.0 | 1972.3 | 1915.6 | 1909.9 |
| 52.5° | 11977.6 | 6646.9 | 2358.1 | 2008.3 | 1996.9 | 2072.5 | 2015.8 | 1959.1 | 1889.1 | 1813.4 | 1798.4 |
| 55° | 12745.4 | 6679.0 | 2220.0 | 1894.8 | 1934.5 | 1926.9 | 1906.1 | 1855.0 | 1817.2 | 1717.1 | 1718.9 |
| 57.5° | 13603.9 | 6743.3 | 2106.6 | 1826.8 | 1894.8 | 1811.6 | 1804.0 | 1760.5 | 1711.3 | 1643.3 | 1620.6 |
| 60° | 14630.6 | 6843.5 | 2008.3 | 1800.2 | 1860.8 | 1735.9 | 1698.1 | 1681.1 | 1631.9 | 1597.9 | 1607.3 |
| 62.5° | 15750.1 | 6934.3 | 1908.0 | 1804.0 | 1821.0 | 1662.1 | 1605.5 | 1599.8 | 1569.6 | 1558.2 | 1558.2 |
| 65° | 16514.1 | 6686.6 | 1783.2 | 1800.2 | 1758.6 | 1586.6 | 1514.6 | 1512.8 | 1488.2 | 1484.4 | 1482.6 |
| 67.5° | 16247.5 | 5901.8 | 1614.9 | 1747.3 | 1694.3 | 1511.0 | 1431.5 | 1423.9 | 1391.7 | 1393.7 | 1393.7 |
| 70° | 14912.4 | 4782.3 | 1382.3 | 1616.8 | 1614.9 | 1442.8 | 1344.5 | 1319.9 | 1276.4 | 1284.0 | 1291.6 |
| 72.5° | 12408.8 | 3543.7 | 1070.3 | 1399.3 | 1488.2 | 1380.5 | 1244.2 | 1204.6 | 1149.7 | 1157.3 | 1155.4 |
| 75° | 8961.5 | 2409.2 | 779.1 | 1064.7 | 1295.3 | 1306.7 | 1145.9 | 1077.9 | 1011.7 | 1023.1 | 1026.8 |
| 77.5° | 4585.6 | 1365.3 | 573.0 | 733.7 | 1017.3 | 1187.6 | 1057.1 | 966.3 | 951.2 | 1057.1 | 1041.9 |
| 80° | 1495.8 | 684.5 | 397.1 | 514.3 | 667.5 | 972.0 | 926.6 | 822.6 | 818.8 | 843.4 | 724.3 |
| 82.5° | 446.3 | 289.4 | 255.3 | 338.5 | 368.8 | 745.1 | 799.9 | 622.2 | 535.2 | 563.5 | 582.4 |
| 85° | 153.1 | 139.9 | 145.7 | 168.3 | 175.9 | 436.9 | 559.8 | 412.3 | 389.5 | 429.3 | 423.6 |
| 87.5° | 36.0 | 49.2 | 41.6 | 37.8 | 37.8 | 105.9 | 217.5 | 172.1 | 238.3 | 158.9 | 153.1 |
| 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)