

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: P970926

Luminaire Tested: **NVN-SB6C-740-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970926  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB6C-740-U-T2U  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

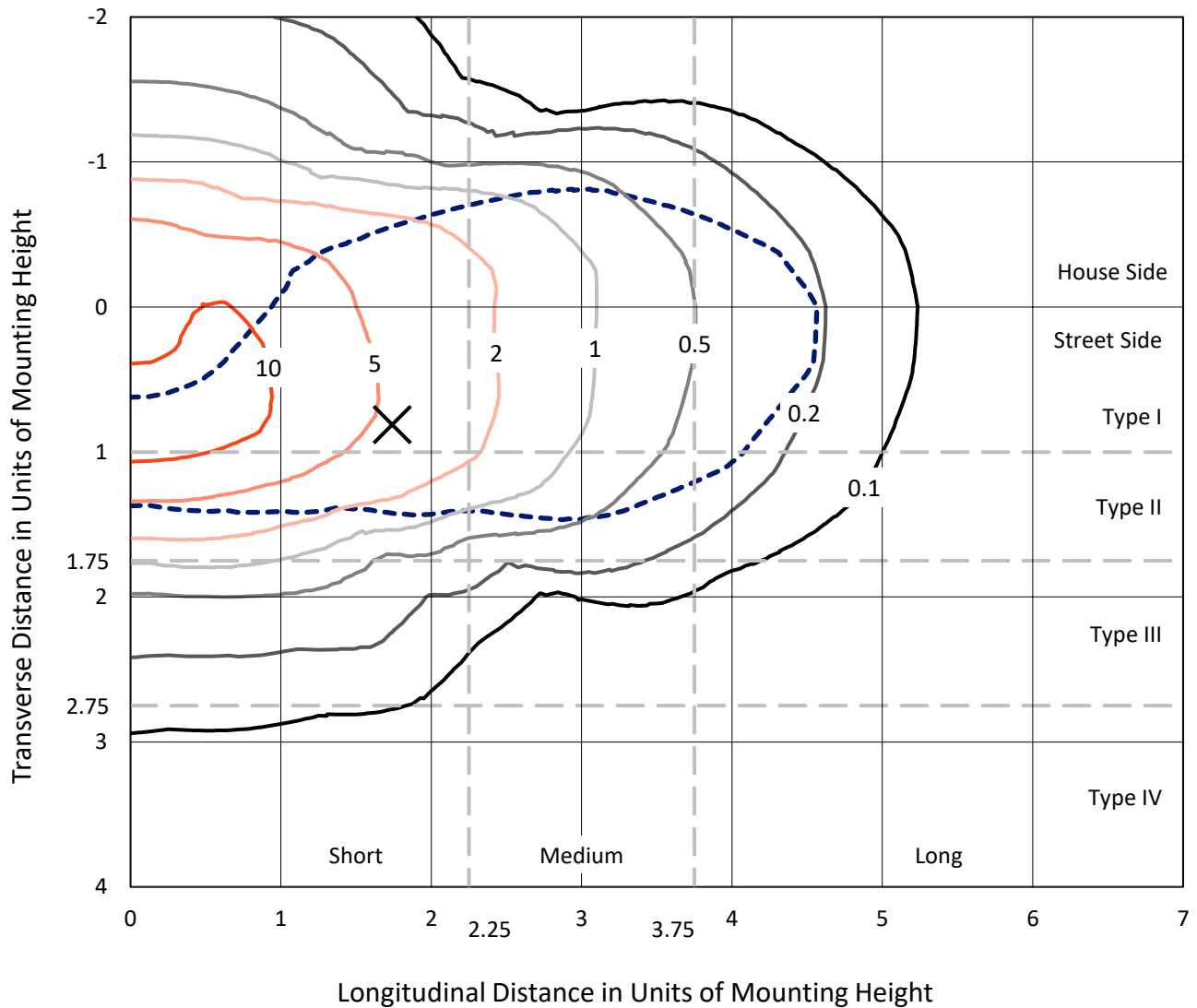
Lumens per Lamp: N/A  
Luminaire Lumens: 49908.3 lumens  
Efficiency: N/A  
Efficacy: 165.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): 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

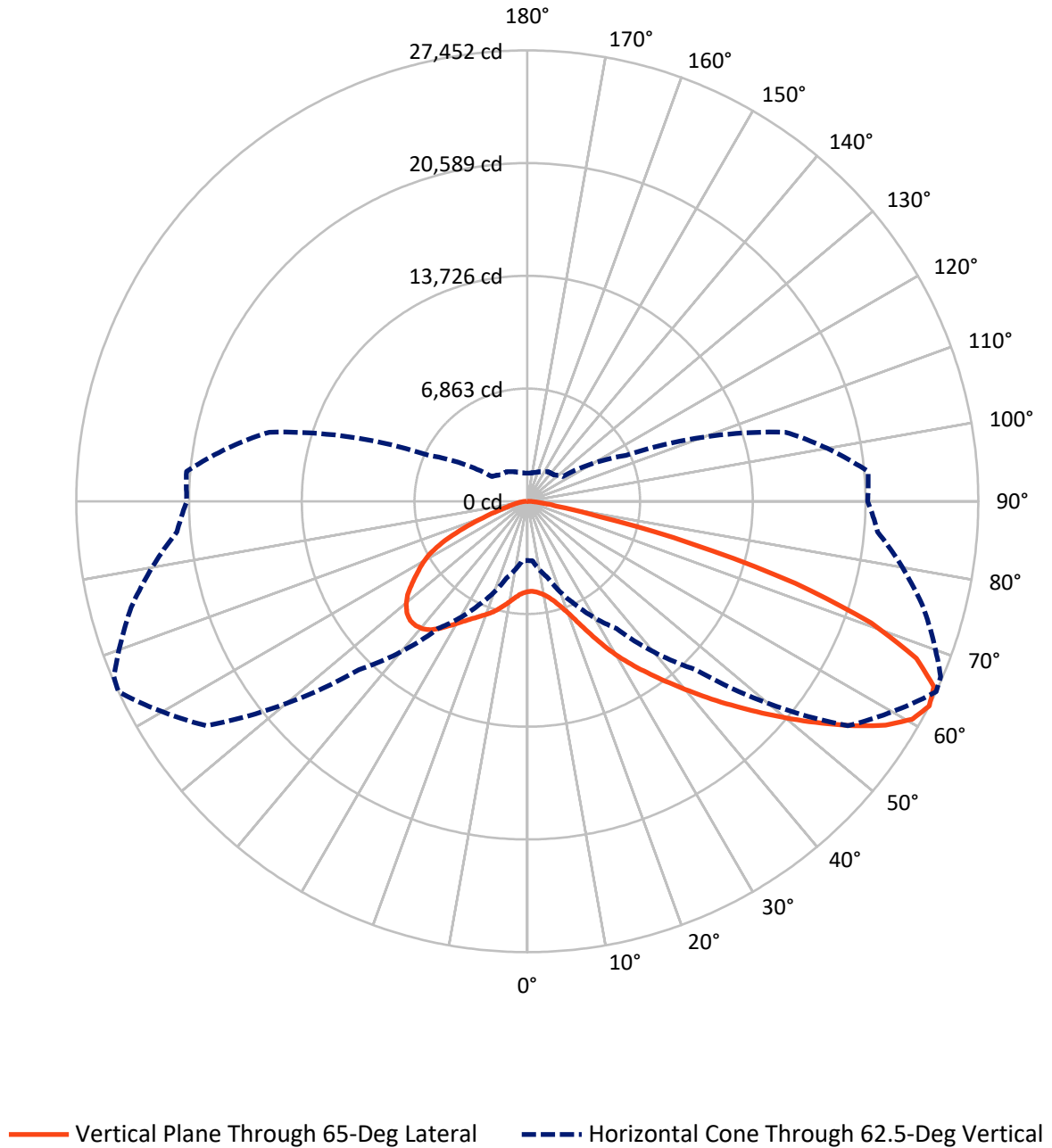
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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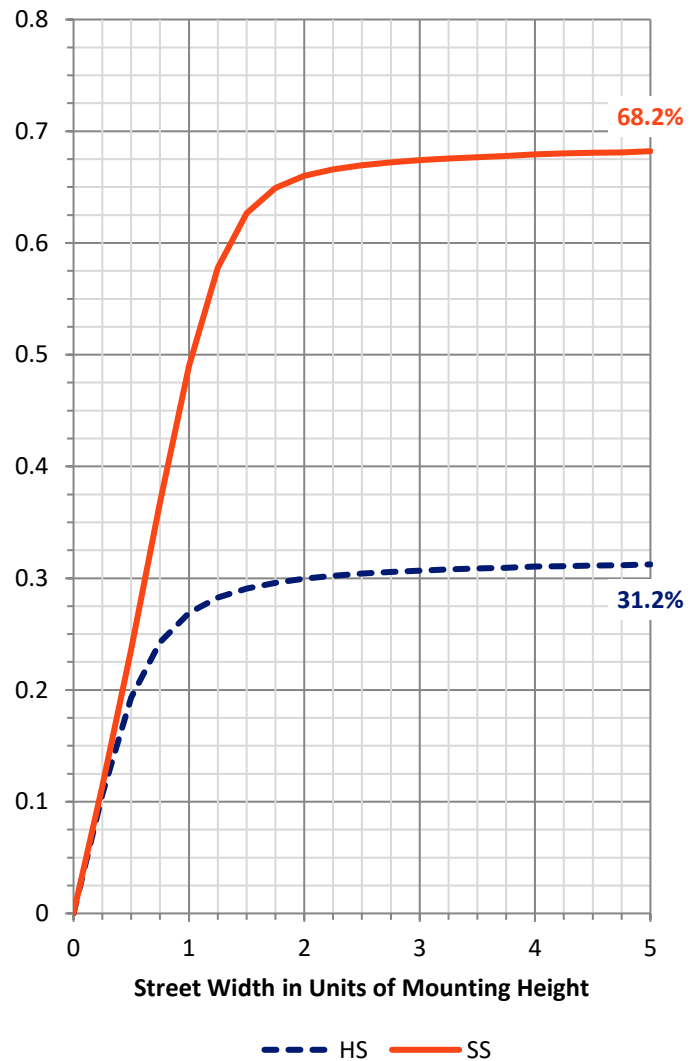
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 15748.9  | 0.0    | 15748.9 |
|                    | % Fixture | 31.6     | 0.0    | 31.6    |
| <b>Street Side</b> | Lumens    | 34159.4  | 0.0    | 34159.4 |
|                    | % Fixture | 68.4     | 0.0    | 68.4    |
| <b>Total</b>       | Lumens    | 49908.3  | 0.0    | 49908.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 548.3   | 1.1       |
| 10°-20°   | 1859.4  | 3.7       |
| 20°-30°   | 3770.1  | 7.6       |
| 30°-40°   | 6524.1  | 13.1      |
| 40°-50°   | 9872.9  | 19.8      |
| 50°-60°   | 11575.4 | 23.2      |
| 60°-70°   | 9704.5  | 19.4      |
| 70°-80°   | 5357.7  | 10.7      |
| 80°-90°   | 695.9   | 1.4       |
| 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°    | 49908.3 | 100.0     |
| 0°-180°   | 49908.3 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P970926

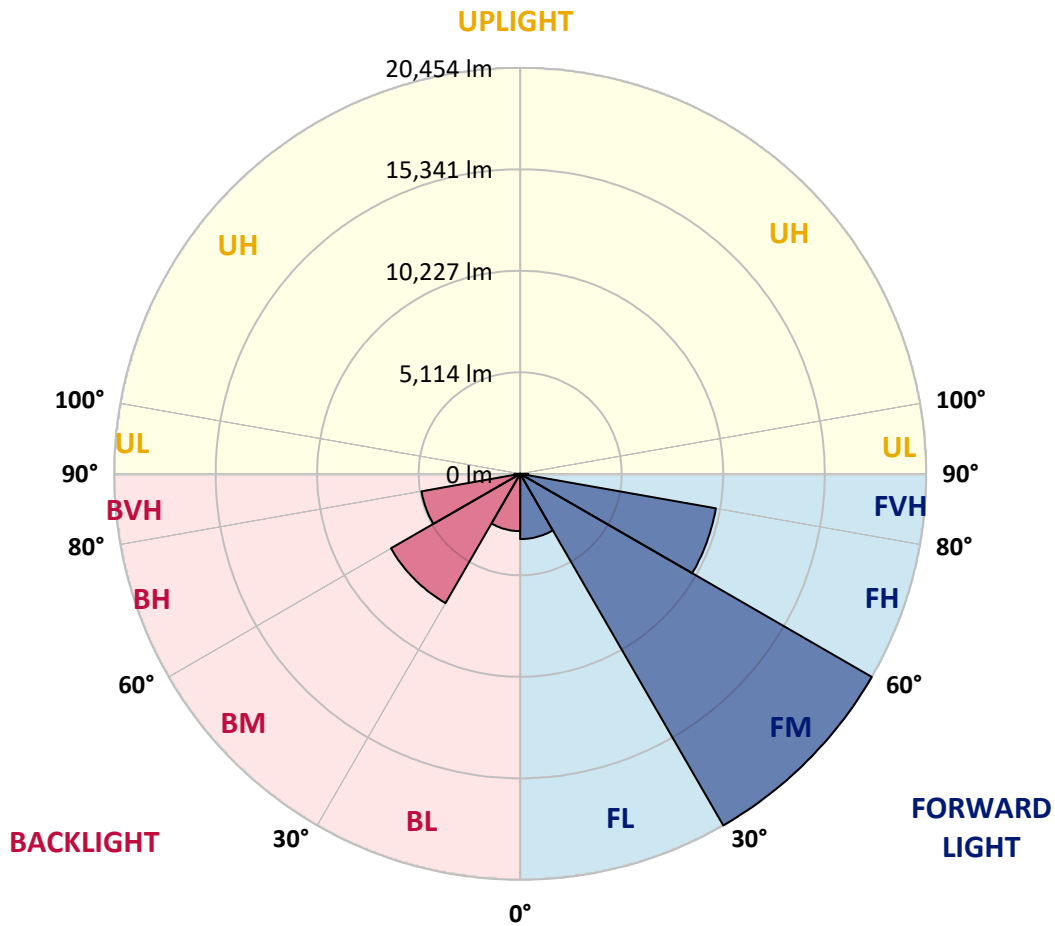
CATALOG NUMBER: NVN-SB6C-740-U-T2U

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 3289.6  | 6.6       |                         |      |          |
| FM (30°-60°)   | 20454.0 | 41.0      |                         |      |          |
| FH (60°-80°)   | 10010.1 | 20.1      |                         |      | G4/12000 |
| FVH (80°-90°)  | 405.6   | 0.8       |                         |      | G3/500   |
| BL (0°-30°)    | 2888.2  | 5.8       | B4/5000                 |      |          |
| BM (30°-60°)   | 7518.3  | 15.1      | B4/8500                 |      |          |
| BH (60°-80°)   | 5052.1  | 10.1      | B5                      |      | G5       |
| BVH (80°-90°)  | 290.3   | 0.6       |                         |      | G3/500   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B5-U0-G5**

Type II Short



REPORT NUMBER: P970926

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 67°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5499.6  | 5499.6  | 5499.6  | 5499.6  | 5499.6  | 5499.6  | 5499.6  | 5499.6  | 5499.6  | 5499.6  | 5499.6  |
| 2.5°  | 5463.5  | 5447.9  | 5460.8  | 5460.8  | 5466.0  | 5463.5  | 5481.6  | 5486.7  | 5494.5  | 5510.0  | 5510.0  |
| 5°    | 5409.0  | 5406.5  | 5429.7  | 5450.4  | 5471.1  | 5489.3  | 5512.7  | 5546.3  | 5551.5  | 5569.5  | 5592.9  |
| 7.5°  | 5390.9  | 5375.4  | 5411.6  | 5437.5  | 5486.7  | 5530.8  | 5592.9  | 5649.9  | 5673.2  | 5681.0  | 5724.9  |
| 10°   | 5530.8  | 5504.9  | 5538.5  | 5554.1  | 5595.5  | 5639.4  | 5712.0  | 5802.6  | 5828.6  | 5859.6  | 5908.8  |
| 12.5° | 5769.0  | 5740.5  | 5789.7  | 5813.0  | 5851.8  | 5890.7  | 5939.9  | 6027.9  | 6040.8  | 6097.8  | 6144.4  |
| 15°   | 6095.3  | 6061.5  | 6092.6  | 6121.1  | 6185.9  | 6222.1  | 6271.3  | 6356.7  | 6356.7  | 6400.7  | 6434.4  |
| 17.5° | 6538.0  | 6494.0  | 6517.3  | 6527.6  | 6569.0  | 6623.4  | 6706.3  | 6781.4  | 6820.2  | 6804.7  | 6758.0  |
| 20°   | 7198.3  | 7143.8  | 7143.8  | 7092.1  | 7076.6  | 7120.6  | 7229.3  | 7332.8  | 7374.4  | 7294.1  | 7180.1  |
| 22.5° | 8190.0  | 8112.3  | 8068.3  | 7892.2  | 7822.3  | 7827.4  | 7936.2  | 8063.1  | 8096.8  | 7954.3  | 7698.0  |
| 25°   | 9450.9  | 9329.2  | 9269.7  | 9010.8  | 8852.8  | 8715.6  | 8801.1  | 8964.1  | 9010.8  | 8834.7  | 8420.4  |
| 27.5° | 10712.0 | 10719.8 | 10662.8 | 10352.0 | 10090.5 | 9839.4  | 9795.3  | 9966.2  | 10015.4 | 9816.0  | 9303.3  |
| 30°   | 12480.4 | 12296.6 | 12187.9 | 11815.0 | 11442.1 | 11090.0 | 10908.8 | 10978.7 | 10991.6 | 10753.4 | 10157.9 |
| 32.5° | 14005.5 | 13959.0 | 13725.9 | 13399.6 | 12920.6 | 12369.1 | 12066.1 | 11954.8 | 11934.1 | 11594.9 | 10888.0 |
| 35°   | 15743.0 | 15717.0 | 15471.0 | 15082.7 | 14564.8 | 13798.3 | 13252.0 | 12933.6 | 12907.6 | 12431.2 | 11610.4 |
| 37.5° | 17508.8 | 17508.8 | 17268.1 | 16843.4 | 16307.4 | 15349.4 | 14518.2 | 14013.3 | 13930.5 | 13309.0 | 12345.8 |
| 40°   | 18917.4 | 18832.0 | 18876.0 | 18697.3 | 18083.7 | 17066.0 | 15924.2 | 15191.4 | 15080.1 | 14334.4 | 13127.8 |
| 42.5° | 19717.5 | 19689.0 | 19953.2 | 20152.5 | 19901.4 | 19088.4 | 17472.6 | 16468.0 | 16312.6 | 15463.4 | 14028.9 |
| 45°   | 19896.2 | 19865.1 | 20336.4 | 21066.5 | 21418.7 | 21084.7 | 19155.6 | 17811.8 | 17622.8 | 16644.1 | 14994.6 |
| 47.5° | 19484.5 | 19422.3 | 20113.7 | 21265.9 | 22394.8 | 22982.7 | 20978.5 | 19269.6 | 18995.1 | 17793.7 | 15986.3 |
| 50°   | 18246.8 | 18187.3 | 19233.3 | 20763.6 | 22723.7 | 24272.1 | 22956.7 | 20815.4 | 20396.0 | 19026.2 | 16988.5 |
| 52.5° | 15556.5 | 15585.0 | 17224.0 | 19326.6 | 22291.3 | 25074.8 | 24660.5 | 22444.0 | 21939.1 | 20287.2 | 17928.3 |
| 55°   | 12118.0 | 12180.1 | 14194.5 | 16509.4 | 20561.6 | 24953.1 | 25823.1 | 24121.9 | 23619.6 | 21473.0 | 18899.3 |
| 57.5° | 8676.7  | 8951.2  | 10838.9 | 13130.4 | 17239.6 | 23024.1 | 26076.8 | 25716.9 | 25230.2 | 22767.7 | 19849.5 |
| 60°   | 5624.0  | 5673.2  | 7615.1  | 9924.8  | 13127.8 | 19595.8 | 25561.6 | 26926.1 | 26545.6 | 24088.2 | 20644.5 |
| 62.5° | 3604.3  | 3637.9  | 4821.3  | 6941.9  | 9448.3  | 14497.5 | 23826.7 | 27451.8 | 27335.2 | 24960.9 | 21408.4 |
| 65°   | 2648.8  | 2623.0  | 3239.2  | 4588.2  | 6364.5  | 8940.9  | 20458.1 | 27198.1 | 27428.5 | 25507.2 | 22040.2 |
| 67.5° | 2211.2  | 2175.0  | 2477.9  | 3177.1  | 4689.3  | 5077.6  | 15137.1 | 25548.6 | 26392.7 | 25445.1 | 22503.6 |
| 70°   | 2014.4  | 1983.4  | 2167.3  | 2358.8  | 3658.6  | 3399.7  | 7630.7  | 22211.0 | 23510.8 | 24738.2 | 22428.5 |
| 72.5° | 1706.3  | 1652.0  | 1903.1  | 2094.8  | 2845.6  | 2607.4  | 3153.7  | 17060.9 | 18645.6 | 22472.5 | 21372.1 |
| 75°   | 1323.2  | 1286.9  | 1501.8  | 1843.6  | 2138.8  | 2035.2  | 1993.7  | 10359.8 | 12089.5 | 17379.4 | 18697.3 |
| 77.5° | 1048.7  | 999.5   | 1196.3  | 1437.0  | 1923.8  | 1535.4  | 1452.6  | 4461.4  | 6175.5  | 11095.1 | 13990.0 |
| 80°   | 789.8   | 745.7   | 908.9   | 1136.7  | 1478.5  | 1157.4  | 939.9   | 1820.3  | 2327.8  | 5621.4  | 7035.1  |
| 82.5° | 561.9   | 523.1   | 634.4   | 833.7   | 994.2   | 1038.3  | 577.4   | 1020.2  | 1147.1  | 2167.3  | 1571.7  |
| 85°   | 359.9   | 336.6   | 424.7   | 523.1   | 631.8   | 668.0   | 352.2   | 533.4   | 585.2   | 893.3   | 655.1   |
| 87.5° | 196.8   | 160.5   | 227.9   | 243.4   | 292.6   | 266.7   | 168.3   | 194.2   | 209.7   | 323.7   | 277.1   |
| 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: P970926  
 CATALOG NUMBER: NVN-SB6C-740-U-T2U

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°    | 115°    | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5499.6  | 5499.6  | 5499.6  | 5499.6  | 5499.6 | 5499.6 | 5499.6 | 5499.6 | 5499.6 | 5499.6 | 5499.6 |
| 2.5°  | 5520.3  | 5528.1  | 5554.1  | 5561.9  | 5579.9 | 5603.3 | 5618.7 | 5634.3 | 5634.3 | 5649.9 | 5649.9 |
| 5°    | 5595.5  | 5613.6  | 5667.9  | 5696.4  | 5743.1 | 5789.7 | 5818.2 | 5851.8 | 5872.5 | 5882.9 | 5888.1 |
| 7.5°  | 5740.5  | 5769.0  | 5846.6  | 5895.8  | 5976.1 | 6040.8 | 6084.8 | 6131.4 | 6141.8 | 6170.3 | 6159.9 |
| 10°   | 5937.3  | 5970.9  | 6059.0  | 6152.2  | 6248.0 | 6328.2 | 6369.7 | 6403.4 | 6416.3 | 6421.4 | 6408.5 |
| 12.5° | 6162.5  | 6211.7  | 6325.7  | 6439.6  | 6540.5 | 6610.5 | 6620.9 | 6613.1 | 6576.8 | 6545.8 | 6545.8 |
| 15°   | 6439.6  | 6483.6  | 6610.5  | 6734.8  | 6833.2 | 6846.1 | 6781.4 | 6740.0 | 6695.9 | 6688.1 | 6688.1 |
| 17.5° | 6771.0  | 6794.3  | 6910.9  | 7032.5  | 7040.3 | 6996.3 | 6900.5 | 6861.7 | 6820.2 | 6791.8 | 6794.3 |
| 20°   | 7156.9  | 7149.1  | 7231.9  | 7283.8  | 7229.3 | 7094.6 | 6949.7 | 6884.9 | 6843.5 | 6809.9 | 6812.5 |
| 22.5° | 7617.7  | 7558.1  | 7547.8  | 7534.9  | 7389.8 | 7107.7 | 6910.9 | 6828.0 | 6763.3 | 6716.6 | 6732.2 |
| 25°   | 8288.4  | 8060.5  | 7902.5  | 7814.5  | 7488.2 | 7037.8 | 6786.5 | 6602.7 | 6481.0 | 6400.7 | 6431.9 |
| 27.5° | 9127.3  | 8744.1  | 8345.3  | 8130.4  | 7488.2 | 6895.3 | 6486.2 | 6188.4 | 5989.1 | 5906.2 | 5947.7 |
| 30°   | 9927.3  | 9526.0  | 8938.3  | 8511.0  | 7470.1 | 6662.3 | 6002.0 | 5587.7 | 5354.7 | 5271.8 | 5321.0 |
| 32.5° | 10611.0 | 10173.3 | 9567.5  | 8928.0  | 7426.1 | 6284.3 | 5401.2 | 4943.0 | 4717.7 | 4619.3 | 4668.5 |
| 35°   | 11245.4 | 10779.3 | 10199.3 | 9386.2  | 7309.6 | 5730.2 | 4741.0 | 4391.4 | 4140.3 | 3982.3 | 4034.1 |
| 37.5° | 11895.2 | 11341.1 | 10797.3 | 9800.5  | 7099.9 | 5082.8 | 4233.6 | 3935.7 | 3640.6 | 3428.2 | 3485.2 |
| 40°   | 12602.2 | 11939.3 | 11436.9 | 10046.5 | 6755.5 | 4466.5 | 3840.0 | 3568.0 | 3254.8 | 3029.5 | 3073.5 |
| 42.5° | 13428.1 | 12656.5 | 12149.0 | 10173.3 | 6284.3 | 4029.0 | 3583.6 | 3316.9 | 3021.7 | 2837.9 | 2874.1 |
| 45°   | 14290.3 | 13446.3 | 12798.9 | 10170.8 | 5758.7 | 3824.4 | 3500.8 | 3236.6 | 2910.4 | 2718.8 | 2749.9 |
| 47.5° | 15194.0 | 14272.2 | 13360.8 | 10005.0 | 5302.8 | 3852.9 | 3454.1 | 3063.1 | 2703.2 | 2516.8 | 2542.7 |
| 50°   | 16100.3 | 15175.8 | 13904.5 | 9694.3  | 5108.7 | 3790.8 | 3280.6 | 2819.8 | 2395.1 | 2226.8 | 2237.2 |
| 52.5° | 16998.8 | 16136.6 | 14373.2 | 9251.5  | 4911.9 | 3560.3 | 3058.0 | 2503.9 | 2268.2 | 2151.7 | 2151.7 |
| 55°   | 17902.4 | 17086.8 | 14883.3 | 8606.8  | 4419.9 | 3291.0 | 2685.1 | 2384.8 | 2167.3 | 2061.1 | 2050.7 |
| 57.5° | 18808.6 | 18184.6 | 15367.5 | 7962.1  | 3801.1 | 2959.6 | 2480.5 | 2239.7 | 2066.3 | 1975.7 | 1960.1 |
| 60°   | 19751.2 | 19440.5 | 15867.2 | 7369.1  | 3190.0 | 2534.9 | 2330.3 | 2123.2 | 1947.2 | 1846.1 | 1838.4 |
| 62.5° | 20722.2 | 20823.2 | 16258.2 | 6605.3  | 2628.1 | 2276.0 | 2195.8 | 1983.4 | 1812.5 | 1716.7 | 1714.1 |
| 65°   | 21700.9 | 22156.6 | 16514.6 | 5546.3  | 2131.0 | 2030.0 | 2050.7 | 1830.6 | 1657.1 | 1574.3 | 1571.7 |
| 67.5° | 22438.9 | 23117.2 | 16442.0 | 4197.3  | 1747.7 | 1796.9 | 1869.5 | 1670.1 | 1507.0 | 1442.3 | 1444.8 |
| 70°   | 22521.7 | 23003.4 | 15727.4 | 2874.1  | 1463.0 | 1569.1 | 1667.5 | 1512.2 | 1343.9 | 1297.2 | 1299.8 |
| 72.5° | 21418.7 | 21449.8 | 13736.2 | 1877.3  | 1237.7 | 1377.5 | 1455.2 | 1351.6 | 1188.5 | 1141.8 | 1139.3 |
| 75°   | 18526.5 | 17739.3 | 10085.3 | 1237.7  | 1035.8 | 1183.3 | 1255.8 | 1183.3 | 1025.4 | 1035.8 | 999.5  |
| 77.5° | 14036.6 | 12563.3 | 6123.7  | 880.4   | 864.8  | 994.2  | 1092.6 | 1040.9 | 906.3  | 1017.6 | 895.8  |
| 80°   | 7231.9  | 6796.9  | 2731.7  | 657.6   | 683.6  | 794.9  | 898.5  | 831.2  | 717.2  | 683.6  | 624.0  |
| 82.5° | 1657.1  | 1926.5  | 1077.2  | 471.3   | 494.6  | 572.3  | 686.1  | 624.0  | 515.3  | 435.0  | 429.8  |
| 85°   | 580.0   | 634.4   | 476.4   | 295.2   | 290.0  | 357.3  | 466.1  | 416.9  | 349.5  | 279.6  | 295.2  |
| 87.5° | 183.9   | 240.8   | 178.7   | 119.1   | 124.3  | 160.5  | 214.9  | 196.8  | 163.1  | 106.2  | 111.3  |
| 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)