

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: P970320

Luminaire Tested: **NVN-SB6B-730-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970320  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB6B-730-U-AFL  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35596.2 lumens  
Efficiency: N/A  
Efficacy: 161.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

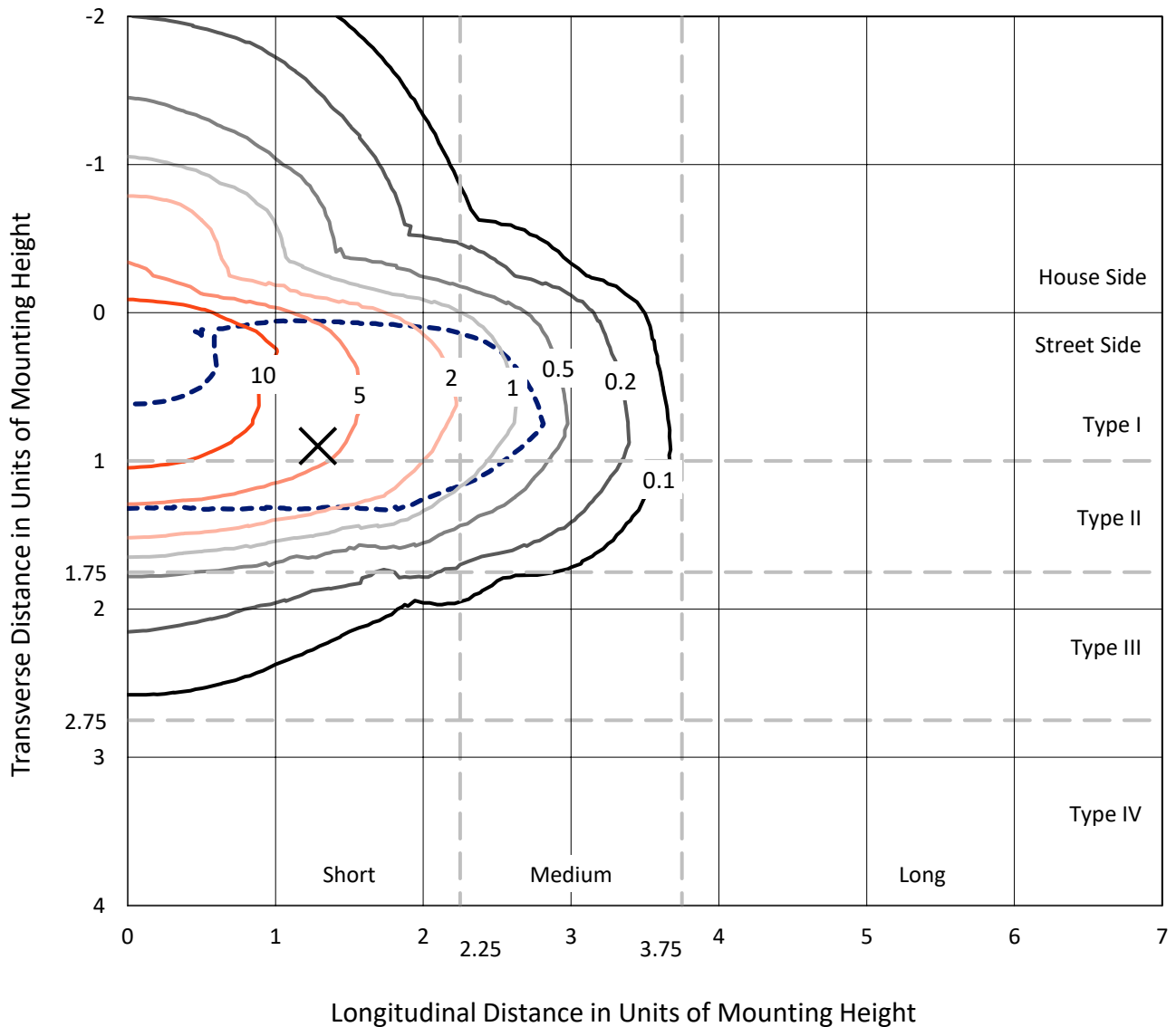
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P970320  
 CATALOG NUMBER: NVN-SB6B-730-U-AFL

### Iso-Footcandle Lines of Horizontal Illumination

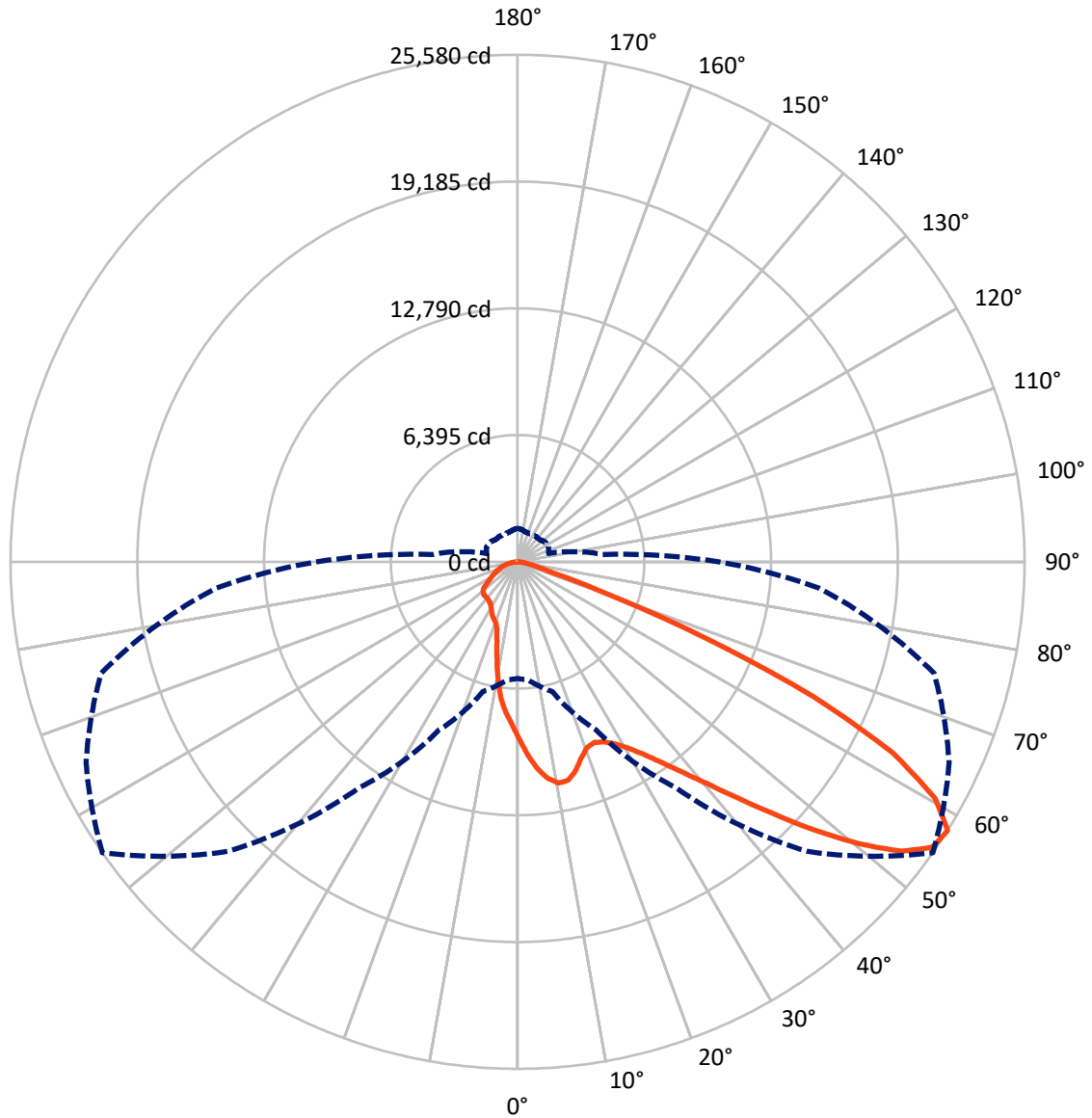
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P970320  
CATALOG NUMBER: NVN-SB6B-730-U-AFL

### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P970320  
 CATALOG NUMBER: NVN-SB6B-730-U-AFL

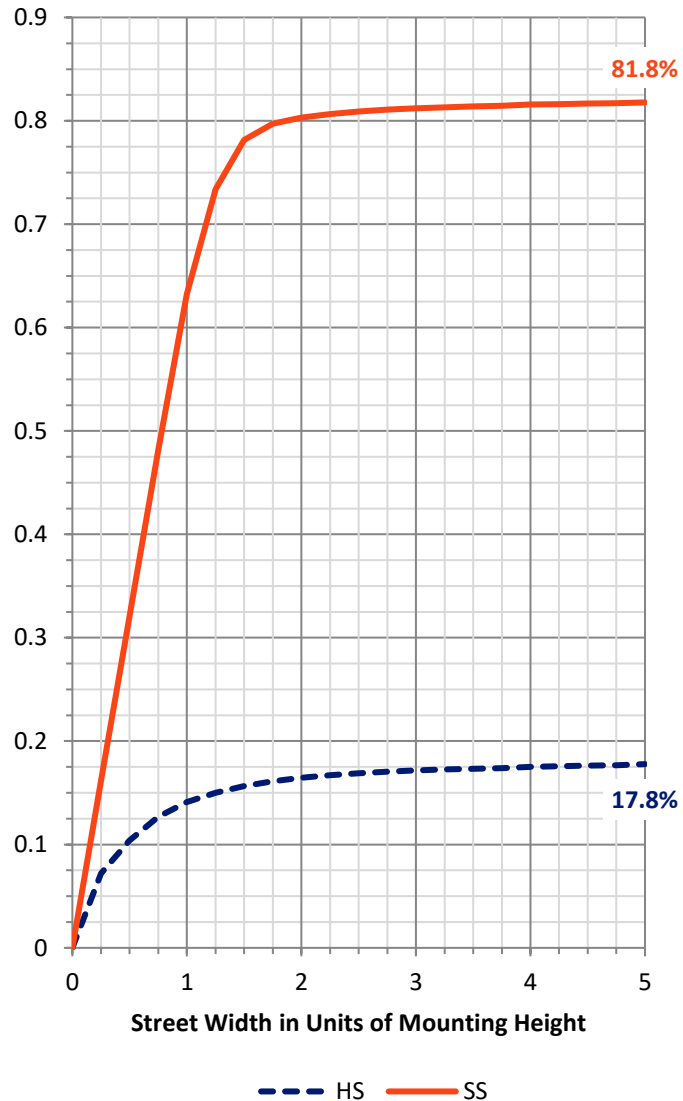
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6441.0   | 0.0    | 6441.0  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 29155.3  | 0.0    | 29155.3 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 35596.2  | 0.0    | 35596.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 827.6   | 2.3       |
| 10°-20°   | 2089.0  | 5.9       |
| 20°-30°   | 3333.5  | 9.4       |
| 30°-40°   | 5277.8  | 14.8      |
| 40°-50°   | 8078.2  | 22.7      |
| 50°-60°   | 8652.5  | 24.3      |
| 60°-70°   | 5443.3  | 15.3      |
| 70°-80°   | 1609.7  | 4.5       |
| 80°-90°   | 284.6   | 0.8       |
| 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°    | 35596.2 | 100.0     |
| 0°-180°   | 35596.2 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P970320

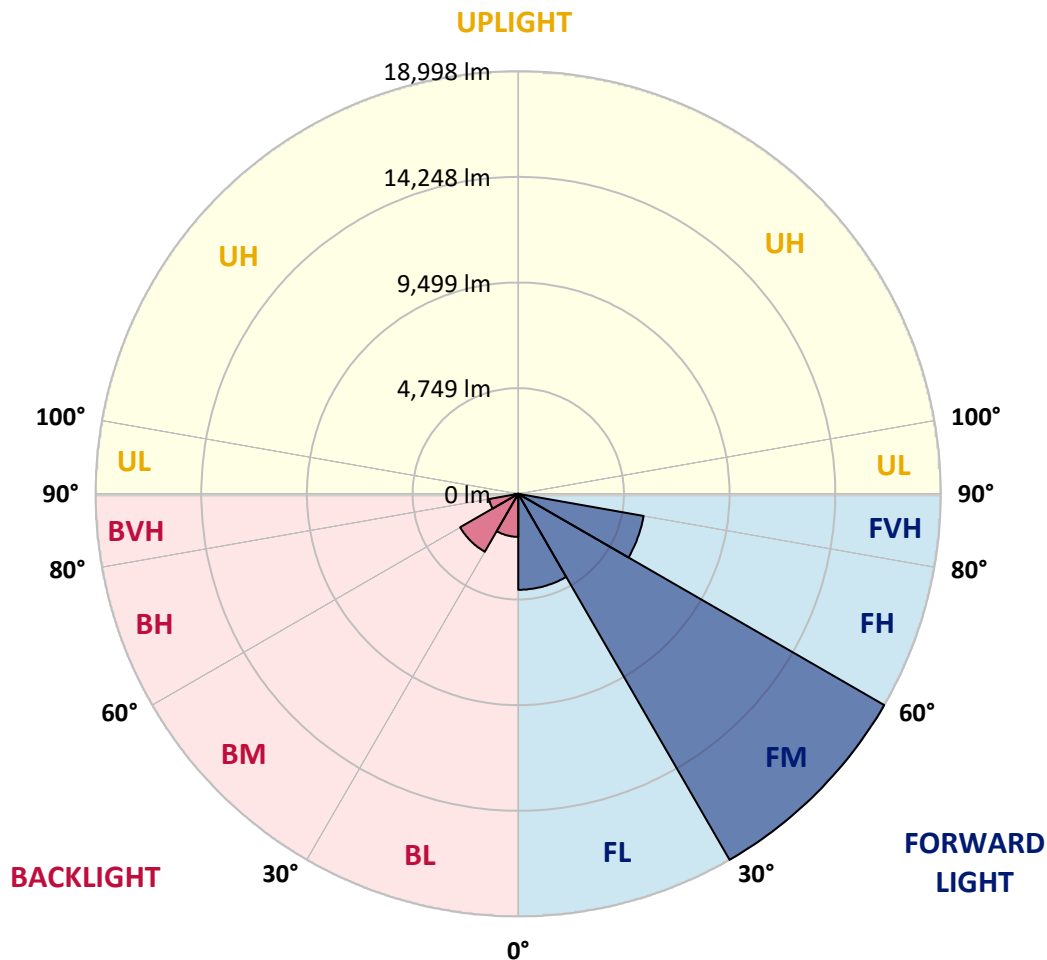
CATALOG NUMBER: NVN-SB6B-730-U-AFL

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4314.3  | 12.1      |                         |      |         |
| FM (30°-60°)   | 18997.9 | 53.4      |                         |      |         |
| FH (60°-80°)   | 5722.8  | 16.1      |                         |      | G3/7500 |
| FVH (80°-90°)  | 120.3   | 0.3       |                         |      | G2/225  |
| BL (0°-30°)    | 1935.9  | 5.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 3010.5  | 8.5       | B3/5000                 |      |         |
| BH (60°-80°)   | 1330.2  | 3.7       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 164.4   | 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-G3**

Type II Short



REPORT NUMBER: P970320  
 CATALOG NUMBER: NVN-SB6B-730-U-AFL

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8919.2  | 8919.2  | 8919.2  | 8919.2  | 8919.2  | 8919.2  | 8919.2  | 8919.2  | 8919.2  | 8919.2  | 8919.2  |
| 2.5°  | 10233.1 | 10225.8 | 10266.3 | 10128.2 | 10034.3 | 9907.4  | 9740.0  | 9526.6  | 9296.4  | 9053.6  | 8948.7  |
| 5°    | 11155.1 | 11090.6 | 11132.9 | 11029.9 | 10926.9 | 10735.4 | 10487.1 | 10139.3 | 9714.2  | 9230.2  | 8972.6  |
| 7.5°  | 11009.6 | 10965.6 | 11074.1 | 11166.0 | 11243.3 | 11219.4 | 11037.3 | 10672.9 | 10124.5 | 9421.6  | 9048.1  |
| 10°   | 9837.5  | 9787.8  | 9940.6  | 10258.9 | 10726.3 | 11132.9 | 11353.8 | 11127.4 | 10544.1 | 9631.4  | 9121.7  |
| 12.5° | 8803.3  | 8779.4  | 8880.6  | 9138.2  | 9657.1  | 10437.4 | 11313.3 | 11524.9 | 10980.2 | 9879.8  | 9221.0  |
| 15°   | 8361.6  | 8332.2  | 8396.7  | 8527.3  | 8858.6  | 9585.4  | 10945.3 | 11797.2 | 11409.0 | 10166.9 | 9379.3  |
| 17.5° | 8264.2  | 8231.1  | 8258.6  | 8326.7  | 8540.2  | 9094.1  | 10389.5 | 11931.6 | 11856.2 | 10487.1 | 9511.8  |
| 20°   | 8444.5  | 8416.9  | 8420.6  | 8416.9  | 8565.9  | 9005.8  | 10003.1 | 11880.1 | 12246.3 | 10781.5 | 9640.6  |
| 22.5° | 8880.6  | 8834.6  | 8836.4  | 8738.9  | 8819.9  | 9160.3  | 9901.9  | 11742.1 | 12594.1 | 11039.1 | 9738.1  |
| 25°   | 9590.9  | 9508.1  | 9524.7  | 9276.2  | 9254.2  | 9506.3  | 10060.2 | 11635.3 | 12940.0 | 11245.2 | 9756.6  |
| 27.5° | 10562.5 | 10468.6 | 10419.0 | 10049.1 | 9872.5  | 9997.5  | 10382.2 | 11672.1 | 13267.6 | 11423.7 | 9710.5  |
| 30°   | 11777.0 | 11663.0 | 11561.7 | 11037.3 | 10717.1 | 10671.1 | 10882.7 | 11915.0 | 13654.0 | 11611.4 | 9631.4  |
| 32.5° | 13265.8 | 13133.2 | 12949.2 | 12253.7 | 11802.8 | 11561.7 | 11530.4 | 12347.5 | 14106.7 | 11850.6 | 9590.9  |
| 35°   | 15037.8 | 14864.9 | 14603.5 | 13703.6 | 13133.2 | 12640.1 | 12384.3 | 12971.3 | 14726.8 | 12211.3 | 9636.9  |
| 37.5° | 16863.2 | 16668.1 | 16428.9 | 15358.0 | 14656.9 | 13930.0 | 13425.8 | 13817.7 | 15553.0 | 12700.8 | 9758.4  |
| 40°   | 18547.0 | 18328.0 | 18105.3 | 17152.1 | 16399.5 | 15523.6 | 14701.1 | 14888.7 | 16563.3 | 13285.9 | 9964.4  |
| 42.5° | 19540.7 | 19378.8 | 19294.1 | 18778.8 | 18197.3 | 17308.6 | 16287.2 | 16158.4 | 17698.7 | 13959.5 | 10200.0 |
| 45°   | 19496.5 | 19430.2 | 19691.6 | 19905.0 | 19767.0 | 19273.8 | 18145.8 | 17562.5 | 18837.8 | 14542.8 | 10417.2 |
| 47.5° | 18454.9 | 18499.1 | 19082.4 | 20282.2 | 20810.4 | 21068.0 | 20262.0 | 18940.8 | 19827.7 | 14978.9 | 10514.7 |
| 50°   | 15621.1 | 15657.9 | 17008.5 | 19595.8 | 21079.0 | 22530.9 | 22361.6 | 20285.9 | 20595.0 | 15245.7 | 10492.6 |
| 52.5° | 13378.0 | 13401.9 | 13981.5 | 17560.6 | 20192.1 | 23267.0 | 24253.3 | 21553.8 | 21156.3 | 15319.3 | 10369.3 |
| 55°   | 10076.7 | 10159.5 | 10809.1 | 13777.2 | 17884.5 | 22683.7 | 25405.2 | 22860.3 | 21511.5 | 15326.7 | 10240.5 |
| 57.5° | 5886.7  | 5976.9  | 6779.1  | 9351.7  | 13900.5 | 20650.3 | 25580.1 | 24019.6 | 21752.6 | 15267.8 | 10163.2 |
| 60°   | 2883.5  | 2922.2  | 3271.8  | 4915.1  | 8571.5  | 16732.6 | 24174.2 | 24580.8 | 21886.8 | 15236.5 | 10159.5 |
| 62.5° | 1943.2  | 1937.7  | 1952.4  | 2425.4  | 4223.2  | 10750.2 | 21244.7 | 23598.2 | 21815.1 | 15116.9 | 10122.7 |
| 65°   | 1670.9  | 1650.7  | 1595.4  | 1702.1  | 2188.0  | 4916.9  | 16414.2 | 20665.0 | 21268.5 | 14817.0 | 9870.6  |
| 67.5° | 1444.5  | 1446.4  | 1448.2  | 1415.1  | 1562.3  | 2268.9  | 10030.8 | 16278.0 | 19307.0 | 13396.3 | 8899.0  |
| 70°   | 1196.1  | 1212.7  | 1220.1  | 1220.1  | 1273.4  | 1488.7  | 4282.0  | 11156.9 | 15229.1 | 10503.6 | 7167.4  |
| 72.5° | 1089.4  | 1054.4  | 1058.1  | 1039.7  | 1039.7  | 1133.5  | 1724.3  | 6324.7  | 9594.6  | 5908.7  | 4374.1  |
| 75°   | 888.8   | 910.9   | 914.6   | 901.7   | 859.4   | 864.9   | 1023.2  | 2653.5  | 4105.4  | 2451.1  | 2162.2  |
| 77.5° | 767.3   | 767.3   | 774.7   | 765.5   | 732.4   | 647.7   | 682.6   | 1028.7  | 1396.7  | 1004.7  | 1080.1  |
| 80°   | 616.4   | 614.6   | 645.9   | 664.3   | 612.7   | 478.5   | 436.1   | 568.6   | 620.1   | 441.7   | 561.3   |
| 82.5° | 299.9   | 318.4   | 443.5   | 506.0   | 465.6   | 345.9   | 266.8   | 353.3   | 331.2   | 195.1   | 252.2   |
| 85°   | 174.9   | 165.6   | 198.7   | 281.6   | 266.8   | 191.4   | 128.8   | 184.0   | 173.0   | 99.3    | 101.2   |
| 87.5° | 55.2    | 51.6    | 40.5    | 95.7    | 77.3    | 53.4    | 35.0    | 53.4    | 47.9    | 22.0    | 22.0    |
| 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: P970320  
 CATALOG NUMBER: NVN-SB6B-730-U-AFL

**CANDELA DISTRIBUTION (continued):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 8919.2 | 8919.2 | 8919.2 | 8919.2 | 8919.2 | 8919.2 | 8919.2 | 8919.2 | 8919.2 | 8919.2 |
| 2.5°  | 8818.1 | 8600.9 | 8385.6 | 8188.7 | 8069.1 | 7991.8 | 7914.5 | 7828.0 | 7794.9 | 7745.2 |
| 5°    | 8729.7 | 8310.2 | 7936.6 | 7614.6 | 7322.0 | 7092.0 | 6860.1 | 6672.4 | 6587.8 | 6644.8 |
| 7.5°  | 8678.2 | 8071.0 | 7495.0 | 6904.3 | 6335.6 | 5881.1 | 5485.5 | 5207.6 | 5082.6 | 5113.8 |
| 10°   | 8632.1 | 7800.5 | 6922.6 | 5989.7 | 5172.7 | 4609.6 | 4204.8 | 3993.2 | 3914.1 | 3930.6 |
| 12.5° | 8589.9 | 7496.8 | 6232.6 | 5005.3 | 4136.7 | 3764.9 | 3649.0 | 3650.8 | 3665.6 | 3676.7 |
| 15°   | 8582.5 | 7130.6 | 5461.6 | 4144.1 | 3577.2 | 3553.4 | 3678.5 | 3757.6 | 3799.9 | 3812.8 |
| 17.5° | 8571.5 | 6692.6 | 4675.8 | 3557.1 | 3441.1 | 3603.1 | 3719.0 | 3770.5 | 3803.6 | 3805.4 |
| 20°   | 8527.3 | 6137.0 | 3950.9 | 3277.3 | 3411.6 | 3551.5 | 3623.3 | 3663.8 | 3691.3 | 3700.6 |
| 22.5° | 8391.2 | 5518.6 | 3385.9 | 3152.2 | 3293.8 | 3406.2 | 3490.7 | 3536.8 | 3553.4 | 3564.4 |
| 25°   | 8146.4 | 4826.7 | 2995.8 | 3032.6 | 3130.1 | 3271.8 | 3339.9 | 3349.1 | 3343.6 | 3360.2 |
| 27.5° | 7826.2 | 4085.1 | 2752.8 | 2870.6 | 2995.8 | 3117.2 | 3154.0 | 3148.5 | 3137.4 | 3155.9 |
| 30°   | 7439.8 | 3419.0 | 2598.3 | 2688.5 | 2859.6 | 2970.0 | 3003.1 | 2990.2 | 2968.2 | 2988.4 |
| 32.5° | 7031.3 | 2874.3 | 2471.4 | 2561.5 | 2747.3 | 2856.0 | 2889.1 | 2876.1 | 2859.6 | 2876.1 |
| 35°   | 6650.3 | 2493.4 | 2353.6 | 2476.8 | 2659.1 | 2765.8 | 2808.1 | 2809.9 | 2809.9 | 2830.1 |
| 37.5° | 6300.7 | 2270.8 | 2256.0 | 2423.5 | 2598.3 | 2694.0 | 2754.7 | 2758.4 | 2679.2 | 2684.8 |
| 40°   | 5976.9 | 2176.9 | 2211.8 | 2388.6 | 2539.4 | 2631.4 | 2635.1 | 2429.0 | 2283.6 | 2279.9 |
| 42.5° | 5711.8 | 2158.5 | 2224.8 | 2384.9 | 2497.1 | 2500.8 | 2241.3 | 2081.3 | 2040.8 | 2042.6 |
| 45°   | 5463.5 | 2153.0 | 2254.2 | 2384.9 | 2434.6 | 2160.4 | 1985.5 | 1943.2 | 1946.9 | 1961.6 |
| 47.5° | 5185.6 | 2130.9 | 2259.7 | 2351.8 | 2254.2 | 1921.2 | 1869.6 | 1851.2 | 1843.9 | 1847.6 |
| 50°   | 4882.0 | 2051.7 | 2189.8 | 2285.4 | 1945.0 | 1818.0 | 1753.7 | 1748.1 | 1757.4 | 1762.9 |
| 52.5° | 4561.8 | 1923.0 | 2070.2 | 2165.8 | 1803.4 | 1727.9 | 1656.1 | 1669.0 | 1709.5 | 1722.4 |
| 55°   | 4351.9 | 1772.1 | 1911.9 | 1926.7 | 1704.0 | 1643.3 | 1582.5 | 1612.0 | 1687.5 | 1711.3 |
| 57.5° | 4296.8 | 1612.0 | 1731.6 | 1715.0 | 1577.1 | 1569.7 | 1532.9 | 1558.6 | 1654.4 | 1689.3 |
| 60°   | 4280.2 | 1468.4 | 1554.9 | 1542.0 | 1453.8 | 1488.7 | 1479.5 | 1492.4 | 1525.5 | 1536.6 |
| 62.5° | 4151.4 | 1354.3 | 1396.7 | 1378.3 | 1343.4 | 1404.0 | 1426.1 | 1398.5 | 1424.2 | 1437.2 |
| 65°   | 3823.9 | 1262.4 | 1242.1 | 1229.2 | 1243.9 | 1299.2 | 1343.4 | 1288.1 | 1312.0 | 1348.8 |
| 67.5° | 3282.9 | 1137.2 | 1082.0 | 1096.8 | 1142.8 | 1172.2 | 1229.2 | 1166.7 | 1186.9 | 1249.5 |
| 70°   | 2655.4 | 979.0  | 929.3  | 971.6  | 1015.8 | 1076.5 | 1085.7 | 1043.3 | 1091.2 | 1161.1 |
| 72.5° | 1878.8 | 818.9  | 783.9  | 870.4  | 885.1  | 964.2  | 944.0  | 923.7  | 990.0  | 1013.9 |
| 75°   | 1302.9 | 660.6  | 640.4  | 706.6  | 759.9  | 828.1  | 813.3  | 837.3  | 977.1  | 988.2  |
| 77.5° | 824.4  | 513.4  | 500.5  | 542.8  | 616.4  | 691.9  | 715.9  | 988.2  | 1669.0 | 1735.2 |
| 80°   | 478.5  | 382.7  | 368.1  | 401.2  | 465.6  | 535.5  | 690.0  | 1212.7 | 1100.4 | 1087.5 |
| 82.5° | 266.8  | 263.1  | 244.8  | 253.9  | 311.0  | 386.4  | 975.3  | 853.8  | 693.7  | 715.9  |
| 85°   | 125.2  | 154.6  | 132.5  | 127.0  | 174.9  | 452.6  | 651.4  | 487.6  | 323.9  | 316.5  |
| 87.5° | 33.1   | 29.4   | 29.4   | 33.1   | 73.6   | 390.1  | 259.4  | 208.0  | 123.3  | 119.6  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)