

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: P964197

Luminaire Tested: **NVN-SB3B-830-U-T2R**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P964197  
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-SB3B-830-U-T2R  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 15849.6 lumens  
Efficiency: N/A  
Efficacy: 145.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 109.2  
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

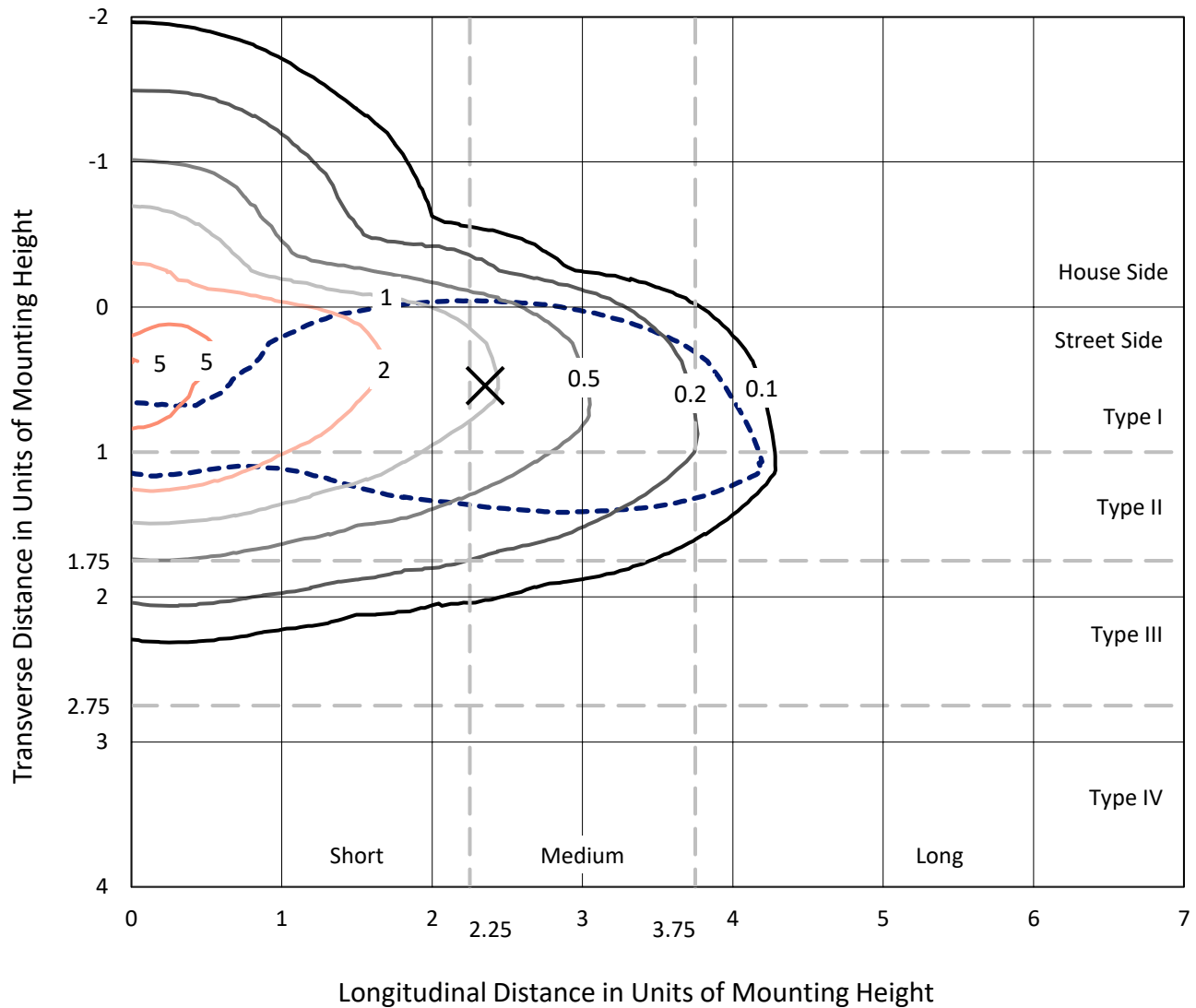


REPORT NUMBER: P964197

CATALOG NUMBER: NVN-SB3B-830-U-T2R

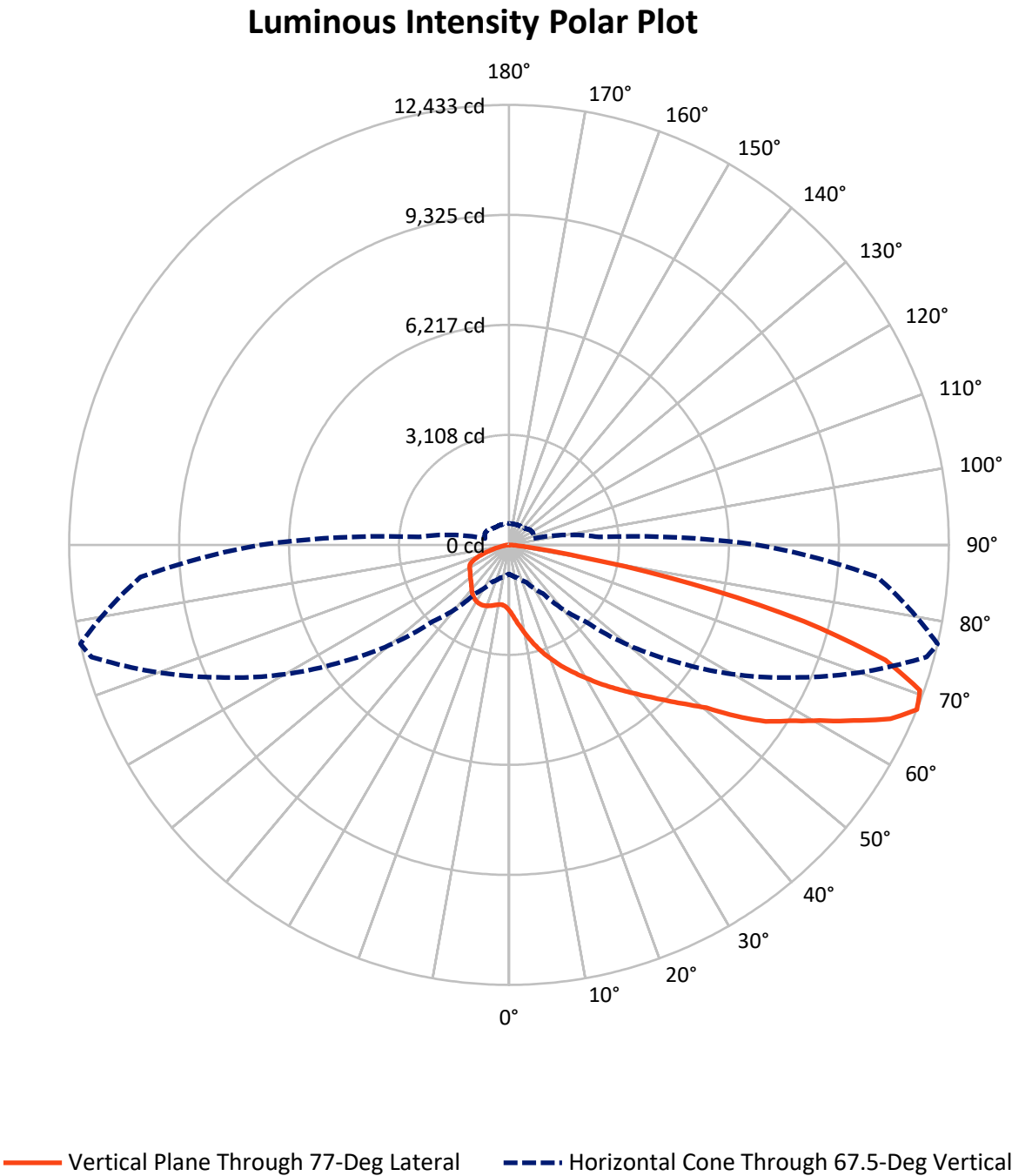
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
Type II - Medium - N/A

REPORT NUMBER: P964197  
CATALOG NUMBER: NVN-SB3B-830-U-T2R



REPORT NUMBER: P964197

CATALOG NUMBER: NVN-SB3B-830-U-T2R

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2998.1   | 0.0    | 2998.1  |
|                    | % Fixture | 18.9     | 0.0    | 18.9    |
| <b>Street Side</b> | Lumens    | 12851.5  | 0.0    | 12851.5 |
|                    | % Fixture | 81.1     | 0.0    | 81.1    |
| <b>Total</b>       | Lumens    | 15849.6  | 0.0    | 15849.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 199.3   | 1.3       |
| 10°-20°   | 716.1   | 4.5       |
| 20°-30°   | 1352.1  | 8.5       |
| 30°-40°   | 2178.2  | 13.7      |
| 40°-50°   | 2979.4  | 18.8      |
| 50°-60°   | 3360.7  | 21.2      |
| 60°-70°   | 3136.8  | 19.8      |
| 70°-80°   | 1719.5  | 10.8      |
| 80°-90°   | 207.4   | 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°    | 15849.6 | 100.0     |
| 0°-180°   | 15849.6 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P964197

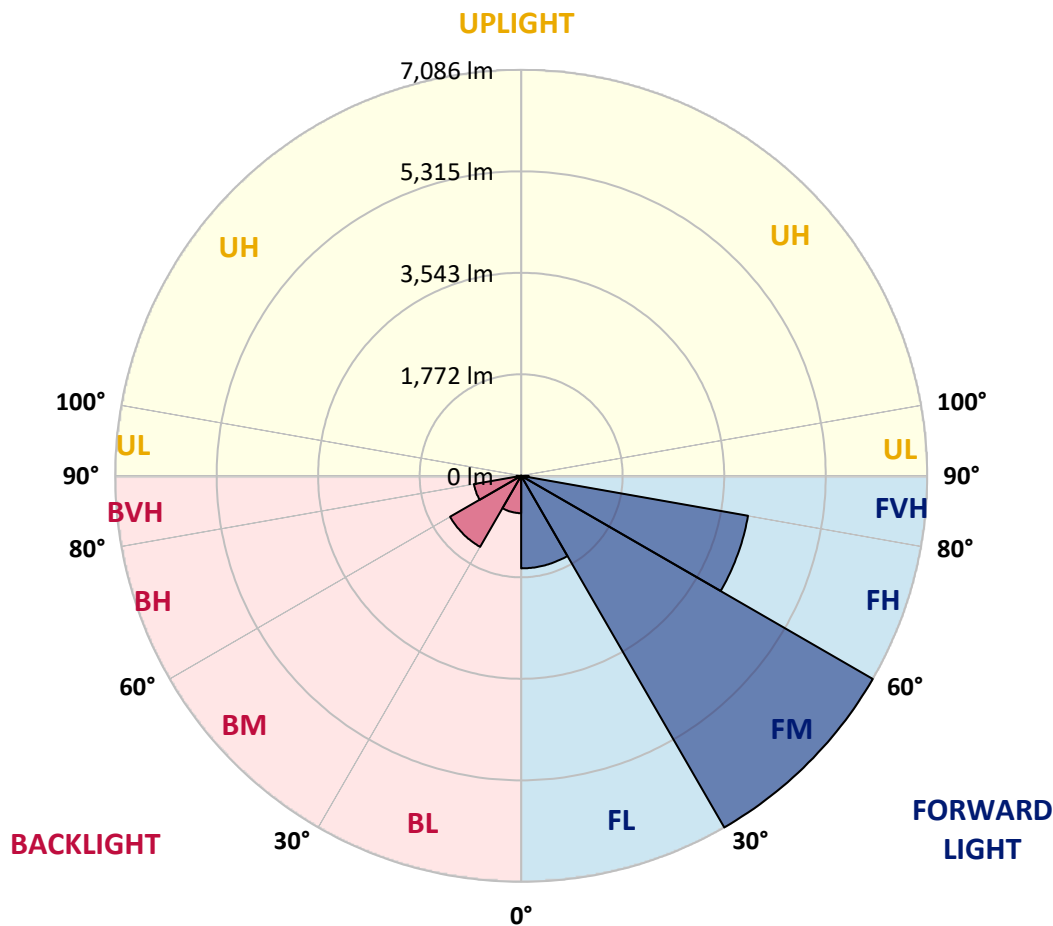
CATALOG NUMBER: NVN-SB3B-830-U-T2R

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1615.7 | 10.2      |                         |      |         |
| FM   | (30°-60°)   | 7086.2 | 44.7      |                         |      |         |
| FH   | (60°-80°)   | 4019.9 | 25.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 129.7  | 0.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 651.9  | 4.1       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1432.1 | 9.0       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 836.4  | 5.3       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 77.7   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Medium



REPORT NUMBER: P964197

CATALOG NUMBER: NVN-SB3B-830-U-T2R

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°     | 77°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 1859.7 | 1859.7 | 1859.7 | 1859.7 | 1859.7 | 1859.7 | 1859.7 | 1859.7 | 1859.7  | 1859.7  | 1859.7  |
| 2.5°  | 2328.5 | 2344.8 | 2324.4 | 2324.4 | 2255.6 | 2219.6 | 2150.9 | 2098.6 | 2004.5  | 1988.1  | 1925.9  |
| 5°    | 2752.2 | 2772.7 | 2744.0 | 2731.8 | 2650.8 | 2576.3 | 2461.0 | 2347.2 | 2179.6  | 2162.3  | 2015.9  |
| 7.5°  | 3080.3 | 3106.5 | 3081.1 | 3068.0 | 2996.1 | 2912.6 | 2777.6 | 2618.9 | 2382.4  | 2348.9  | 2137.0  |
| 10°   | 3347.9 | 3352.0 | 3343.8 | 3348.7 | 3292.2 | 3223.5 | 3085.2 | 2900.3 | 2604.9  | 2559.1  | 2283.5  |
| 12.5° | 3499.2 | 3518.0 | 3534.4 | 3563.8 | 3554.0 | 3511.4 | 3387.1 | 3166.2 | 2840.6  | 2781.7  | 2443.0  |
| 15°   | 3570.4 | 3603.1 | 3640.0 | 3707.8 | 3762.7 | 3773.3 | 3678.4 | 3451.8 | 3080.3  | 3009.1  | 2604.1  |
| 17.5° | 3595.8 | 3626.9 | 3685.0 | 3783.1 | 3900.9 | 3980.3 | 3937.7 | 3729.2 | 3317.6  | 3235.7  | 2773.5  |
| 20°   | 3724.2 | 3733.2 | 3768.4 | 3861.7 | 3989.3 | 4121.0 | 4152.9 | 3995.9 | 3552.3  | 3460.0  | 2948.6  |
| 22.5° | 3999.1 | 3981.1 | 3990.9 | 4033.5 | 4125.1 | 4252.7 | 4325.5 | 4231.4 | 3793.7  | 3687.4  | 3125.3  |
| 25°   | 4453.2 | 4400.8 | 4348.5 | 4299.4 | 4346.0 | 4418.0 | 4500.7 | 4467.1 | 4046.6  | 3911.6  | 3303.7  |
| 27.5° | 5026.7 | 4962.8 | 4847.5 | 4686.3 | 4629.9 | 4655.2 | 4692.0 | 4685.5 | 4280.5  | 4143.9  | 3487.8  |
| 30°   | 5591.2 | 5516.8 | 5379.3 | 5146.1 | 4997.3 | 4930.1 | 4902.4 | 4883.5 | 4535.0  | 4389.4  | 3673.5  |
| 32.5° | 6042.0 | 5983.1 | 5848.1 | 5587.2 | 5371.1 | 5256.6 | 5164.2 | 5097.0 | 4800.9  | 4655.2  | 3869.8  |
| 35°   | 6436.4 | 6381.5 | 6226.9 | 5942.2 | 5707.4 | 5585.5 | 5464.4 | 5321.2 | 5077.4  | 4930.1  | 4080.9  |
| 37.5° | 6796.4 | 6741.5 | 6529.7 | 6233.4 | 5997.0 | 5912.7 | 5804.8 | 5561.8 | 5354.8  | 5215.7  | 4304.3  |
| 40°   | 7023.8 | 7011.5 | 6813.5 | 6478.1 | 6232.6 | 6190.9 | 6154.9 | 5840.8 | 5662.4  | 5533.2  | 4549.7  |
| 42.5° | 7081.8 | 7108.9 | 6951.8 | 6676.0 | 6442.1 | 6408.5 | 6492.9 | 6156.6 | 6007.6  | 5884.1  | 4827.9  |
| 45°   | 6942.0 | 7019.7 | 6916.6 | 6729.2 | 6591.0 | 6573.0 | 6792.3 | 6501.8 | 6389.7  | 6276.8  | 5163.3  |
| 47.5° | 6587.7 | 6719.5 | 6676.8 | 6650.7 | 6631.0 | 6708.8 | 7055.7 | 6868.3 | 6822.5  | 6724.3  | 5546.2  |
| 50°   | 5872.6 | 6122.2 | 6196.6 | 6361.9 | 6551.7 | 6814.3 | 7295.4 | 7268.4 | 7328.1  | 7229.1  | 6012.5  |
| 52.5° | 4636.5 | 4980.1 | 5412.0 | 5826.0 | 6308.0 | 6779.1 | 7558.9 | 7842.8 | 8094.7  | 8040.7  | 6753.8  |
| 55°   | 3827.2 | 3981.9 | 4314.1 | 5073.3 | 5835.0 | 6631.0 | 7677.5 | 8306.6 | 8855.6  | 8807.3  | 7315.8  |
| 57.5° | 3205.5 | 3343.8 | 3548.3 | 4182.4 | 5120.0 | 6294.8 | 7751.2 | 8589.7 | 9376.8  | 9371.9  | 7870.6  |
| 60°   | 2538.7 | 2685.2 | 2894.6 | 3343.8 | 4284.6 | 5714.0 | 7734.8 | 8912.1 | 10041.9 | 10082.8 | 8547.2  |
| 62.5° | 1786.1 | 1947.2 | 2179.6 | 2598.5 | 3431.3 | 4961.2 | 7400.9 | 9145.3 | 10824.9 | 10936.1 | 9361.2  |
| 65°   | 1174.0 | 1280.4 | 1455.5 | 1817.1 | 2556.7 | 3993.4 | 6763.7 | 9175.5 | 11662.7 | 11850.8 | 10125.4 |
| 67.5° | 823.1  | 864.0  | 967.1  | 1163.4 | 1685.4 | 3062.3 | 5748.3 | 8862.2 | 12221.5 | 12433.4 | 10456.7 |
| 70°   | 642.3  | 662.7  | 715.0  | 793.6  | 1058.7 | 2059.2 | 4404.9 | 8047.3 | 12102.1 | 12323.0 | 10110.7 |
| 72.5° | 554.7  | 574.3  | 594.0  | 603.8  | 710.1  | 1271.4 | 2983.8 | 6728.4 | 10977.0 | 11126.8 | 8791.0  |
| 75°   | 503.2  | 508.1  | 524.4  | 521.1  | 541.6  | 824.7  | 1722.2 | 4902.4 | 8660.9  | 8609.4  | 6489.6  |
| 77.5° | 423.0  | 429.6  | 456.5  | 452.4  | 481.0  | 563.8  | 894.2  | 3163.8 | 5615.0  | 5264.8  | 3612.1  |
| 80°   | 358.3  | 361.6  | 391.0  | 386.1  | 418.1  | 408.3  | 456.5  | 1612.5 | 2381.6  | 2017.5  | 1041.5  |
| 82.5° | 124.3  | 153.9  | 298.6  | 307.6  | 319.1  | 247.1  | 263.4  | 657.7  | 727.3   | 557.2   | 218.4   |
| 85°   | 60.6   | 64.7   | 152.2  | 216.0  | 215.1  | 124.3  | 128.4  | 234.8  | 229.1   | 180.0   | 72.8    |
| 87.5° | 9.8    | 12.3   | 18.0   | 84.3   | 67.1   | 32.7   | 44.2   | 45.8   | 47.5    | 40.9    | 16.4    |
| 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: P964197

CATALOG NUMBER: NVN-SB3B-830-U-T2R

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1859.7 | 1859.7 | 1859.7 | 1859.7 | 1859.7 | 1859.7 | 1859.7 | 1859.7 | 1859.7 | 1859.7 | 1859.7 |
| 2.5°  | 1880.1 | 1839.2 | 1753.3 | 1673.9 | 1611.7 | 1552.1 | 1518.4 | 1489.8 | 1473.4 | 1470.3 | 1470.3 |
| 5°    | 1930.8 | 1846.5 | 1690.3 | 1558.6 | 1472.6 | 1408.9 | 1375.3 | 1354.0 | 1343.4 | 1336.8 | 1336.0 |
| 7.5°  | 2003.7 | 1880.1 | 1657.5 | 1507.9 | 1417.9 | 1372.1 | 1354.8 | 1351.6 | 1350.7 | 1351.6 | 1354.0 |
| 10°   | 2104.2 | 1934.9 | 1654.2 | 1495.6 | 1420.3 | 1394.9 | 1394.1 | 1394.9 | 1398.2 | 1399.0 | 1399.8 |
| 12.5° | 2213.1 | 1991.4 | 1667.4 | 1506.2 | 1451.4 | 1437.5 | 1435.0 | 1434.2 | 1436.6 | 1438.3 | 1439.1 |
| 15°   | 2331.7 | 2065.8 | 1689.5 | 1529.1 | 1485.7 | 1471.0 | 1468.6 | 1463.7 | 1462.9 | 1462.1 | 1461.2 |
| 17.5° | 2453.6 | 2139.5 | 1714.0 | 1553.7 | 1507.9 | 1487.4 | 1478.4 | 1467.0 | 1458.0 | 1455.5 | 1458.0 |
| 20°   | 2577.2 | 2212.3 | 1731.2 | 1565.9 | 1509.5 | 1480.8 | 1462.9 | 1443.2 | 1427.6 | 1418.7 | 1422.0 |
| 22.5° | 2708.9 | 2288.3 | 1741.9 | 1562.6 | 1494.8 | 1455.5 | 1422.8 | 1399.8 | 1376.2 | 1360.6 | 1361.4 |
| 25°   | 2837.3 | 2354.6 | 1741.1 | 1545.5 | 1466.2 | 1416.2 | 1374.5 | 1345.0 | 1312.3 | 1295.9 | 1295.9 |
| 27.5° | 2960.9 | 2414.4 | 1720.6 | 1515.3 | 1425.3 | 1369.6 | 1319.7 | 1284.5 | 1252.6 | 1237.1 | 1236.3 |
| 30°   | 3088.5 | 2464.3 | 1688.7 | 1471.0 | 1377.0 | 1315.6 | 1260.8 | 1230.5 | 1201.8 | 1187.2 | 1186.3 |
| 32.5° | 3215.3 | 2510.1 | 1643.7 | 1416.2 | 1321.3 | 1262.4 | 1208.4 | 1180.6 | 1163.4 | 1163.4 | 1164.2 |
| 35°   | 3349.5 | 2542.0 | 1583.9 | 1352.4 | 1262.4 | 1205.9 | 1163.4 | 1147.1 | 1145.4 | 1135.6 | 1133.1 |
| 37.5° | 3491.0 | 2562.4 | 1511.2 | 1287.0 | 1204.3 | 1151.2 | 1138.1 | 1118.4 | 1102.1 | 1080.8 | 1077.5 |
| 40°   | 3640.0 | 2582.9 | 1423.6 | 1219.0 | 1143.0 | 1113.5 | 1107.8 | 1081.6 | 1034.9 | 982.6  | 975.2  |
| 42.5° | 3820.8 | 2596.8 | 1332.8 | 1151.2 | 1078.3 | 1068.5 | 1076.7 | 1031.7 | 957.2  | 918.0  | 918.8  |
| 45°   | 4030.2 | 2619.7 | 1249.3 | 1084.0 | 1012.1 | 1012.1 | 1046.4 | 987.5  | 926.2  | 901.6  | 905.7  |
| 47.5° | 4301.8 | 2672.9 | 1171.6 | 1010.4 | 950.7  | 967.1  | 979.3  | 934.3  | 900.0  | 869.7  | 868.9  |
| 50°   | 4694.5 | 2800.5 | 1091.4 | 935.9  | 904.0  | 936.7  | 919.6  | 893.4  | 853.3  | 828.8  | 826.4  |
| 52.5° | 5182.1 | 2875.7 | 1020.2 | 868.9  | 864.0  | 896.7  | 872.2  | 847.6  | 817.3  | 784.6  | 778.1  |
| 55°   | 5514.3 | 2889.7 | 960.5  | 819.8  | 837.0  | 833.7  | 824.7  | 802.6  | 786.3  | 742.9  | 743.7  |
| 57.5° | 5885.8 | 2917.6 | 911.4  | 790.4  | 819.8  | 783.8  | 780.5  | 761.7  | 740.5  | 710.9  | 701.2  |
| 60°   | 6330.0 | 2960.9 | 868.9  | 778.9  | 805.0  | 751.0  | 734.7  | 727.3  | 706.0  | 691.4  | 695.5  |
| 62.5° | 6814.3 | 3000.2 | 825.5  | 780.5  | 787.9  | 719.1  | 694.6  | 692.2  | 679.1  | 674.1  | 674.1  |
| 65°   | 7144.9 | 2893.0 | 771.5  | 778.9  | 760.9  | 686.4  | 655.4  | 654.6  | 643.9  | 642.3  | 641.4  |
| 67.5° | 7029.6 | 2553.5 | 698.7  | 755.9  | 733.1  | 653.7  | 619.3  | 616.0  | 602.2  | 603.0  | 603.0  |
| 70°   | 6451.9 | 2069.1 | 598.1  | 699.6  | 698.7  | 624.2  | 581.7  | 571.0  | 552.3  | 555.6  | 558.8  |
| 72.5° | 5368.6 | 1533.2 | 463.1  | 605.5  | 643.9  | 597.3  | 538.3  | 521.1  | 497.4  | 500.7  | 499.9  |
| 75°   | 3877.2 | 1042.3 | 337.1  | 460.6  | 560.5  | 565.4  | 495.8  | 466.4  | 437.7  | 442.6  | 444.2  |
| 77.5° | 1984.0 | 590.7  | 247.9  | 317.4  | 440.1  | 513.8  | 457.4  | 418.1  | 411.5  | 457.4  | 450.8  |
| 80°   | 647.2  | 296.1  | 171.8  | 222.5  | 288.8  | 420.6  | 400.9  | 355.9  | 354.2  | 364.9  | 313.3  |
| 82.5° | 193.1  | 125.2  | 110.5  | 146.5  | 159.5  | 322.4  | 346.0  | 269.2  | 231.5  | 243.8  | 251.9  |
| 85°   | 66.3   | 60.6   | 63.0   | 72.8   | 76.1   | 189.0  | 242.2  | 178.4  | 168.5  | 185.7  | 183.3  |
| 87.5° | 15.6   | 21.3   | 18.0   | 16.4   | 16.4   | 45.8   | 94.1   | 74.4   | 103.1  | 68.7   | 66.3   |
| 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)