

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: P970519

Luminaire Tested: **NVN-SB6B-830-U-T2-HSS**

Issue Date: 1/21/2025

### Test Information

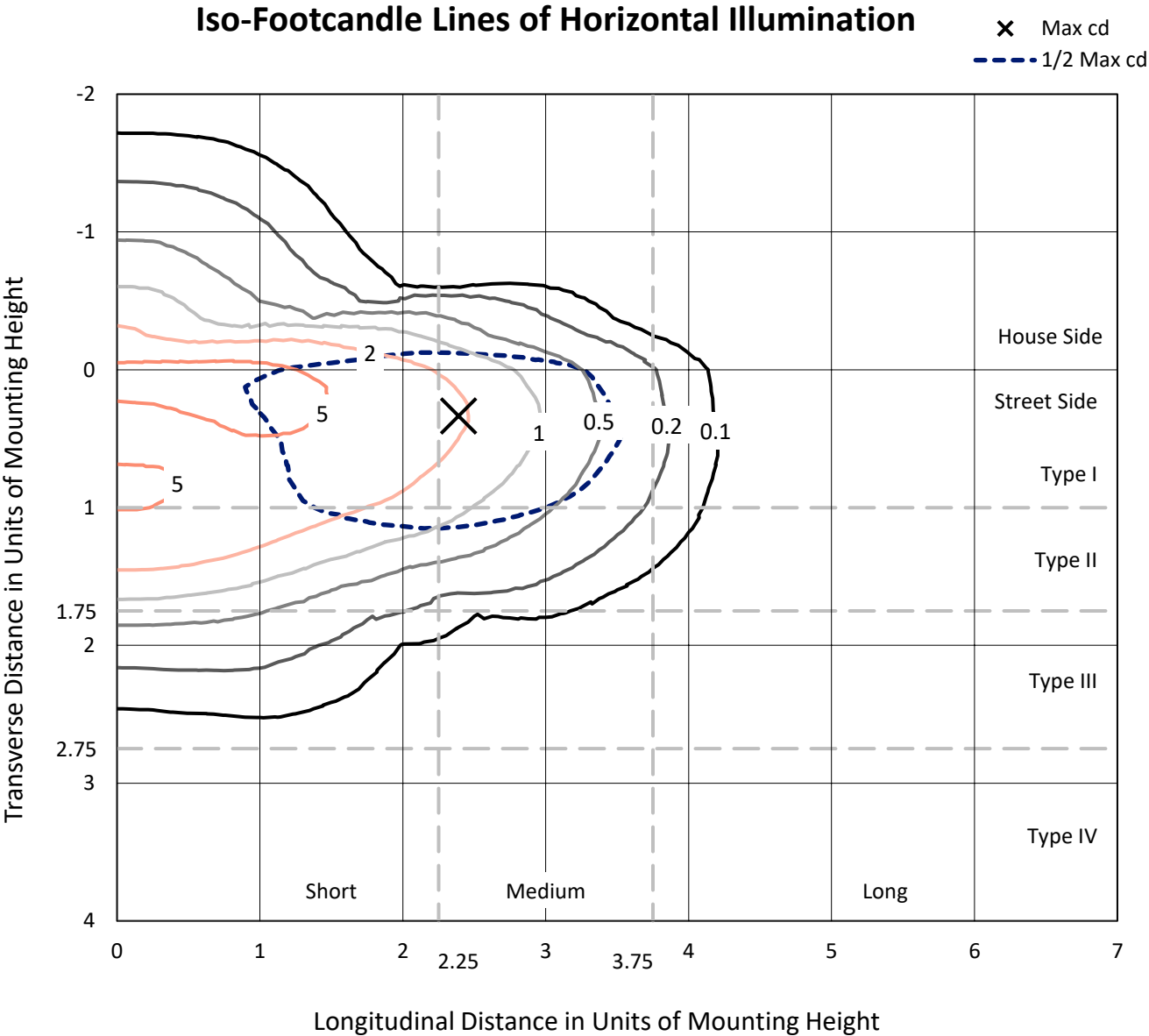
Test Method: LM-79-08  
Report Number: P970519  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB6B-830-U-T2-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 22965.1 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
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

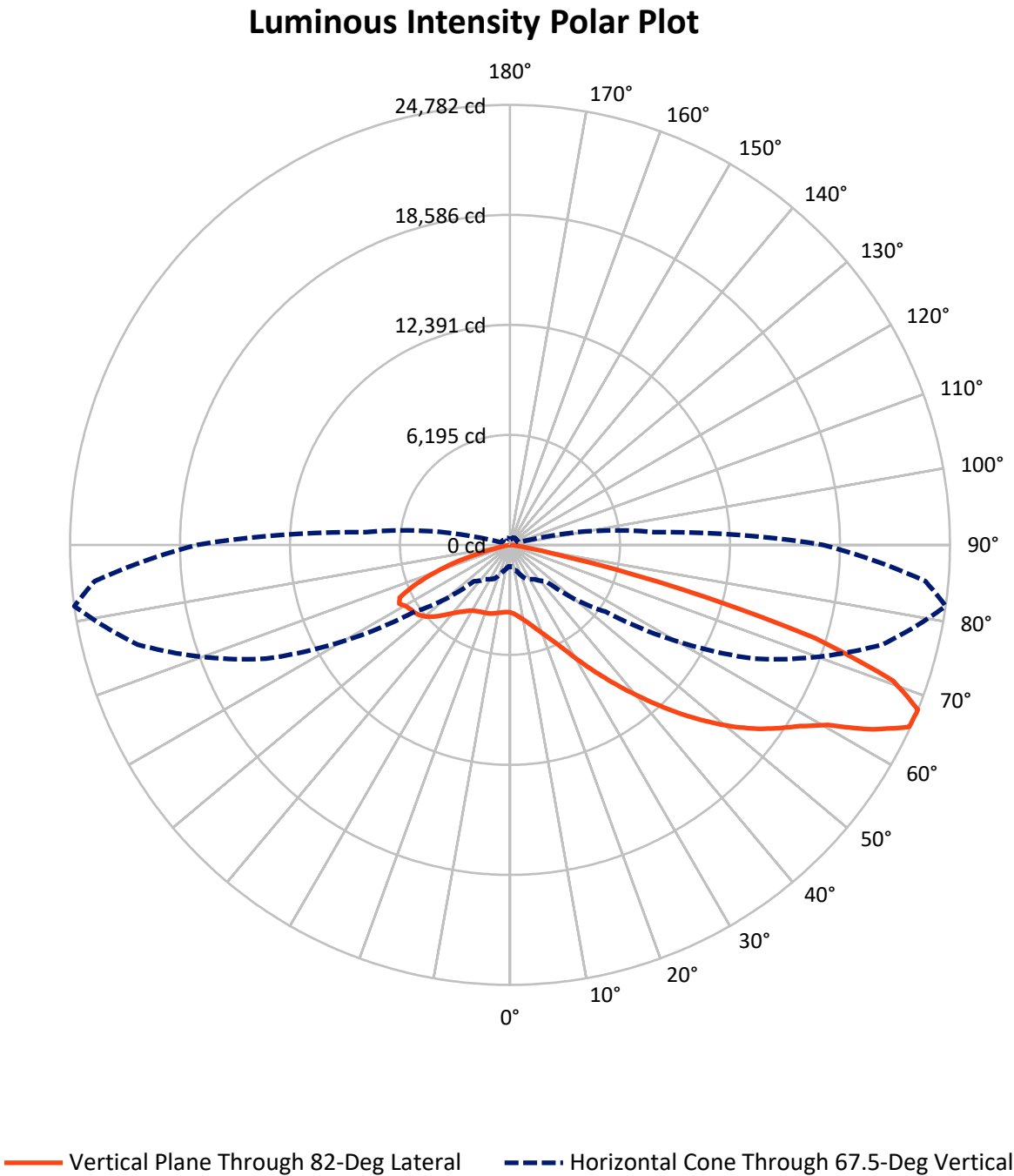


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CATALOG NUMBER: NVN-SB6B-830-U-T2-HSS



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
Type II - Medium - N/A

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4159.9   | 0.0    | 4159.9  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 18805.2  | 0.0    | 18805.2 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 22965.1  | 0.0    | 22965.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 339.0   | 1.5       |
| 10°-20°   | 880.8   | 3.8       |
| 20°-30°   | 1410.8  | 6.1       |
| 30°-40°   | 2494.7  | 10.9      |
| 40°-50°   | 4370.9  | 19.0      |
| 50°-60°   | 5829.6  | 25.4      |
| 60°-70°   | 5427.1  | 23.6      |
| 70°-80°   | 2082.9  | 9.1       |
| 80°-90°   | 129.4   | 0.6       |
| 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°    | 22965.1 | 100.0     |
| 0°-180°   | 22965.1 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P970519

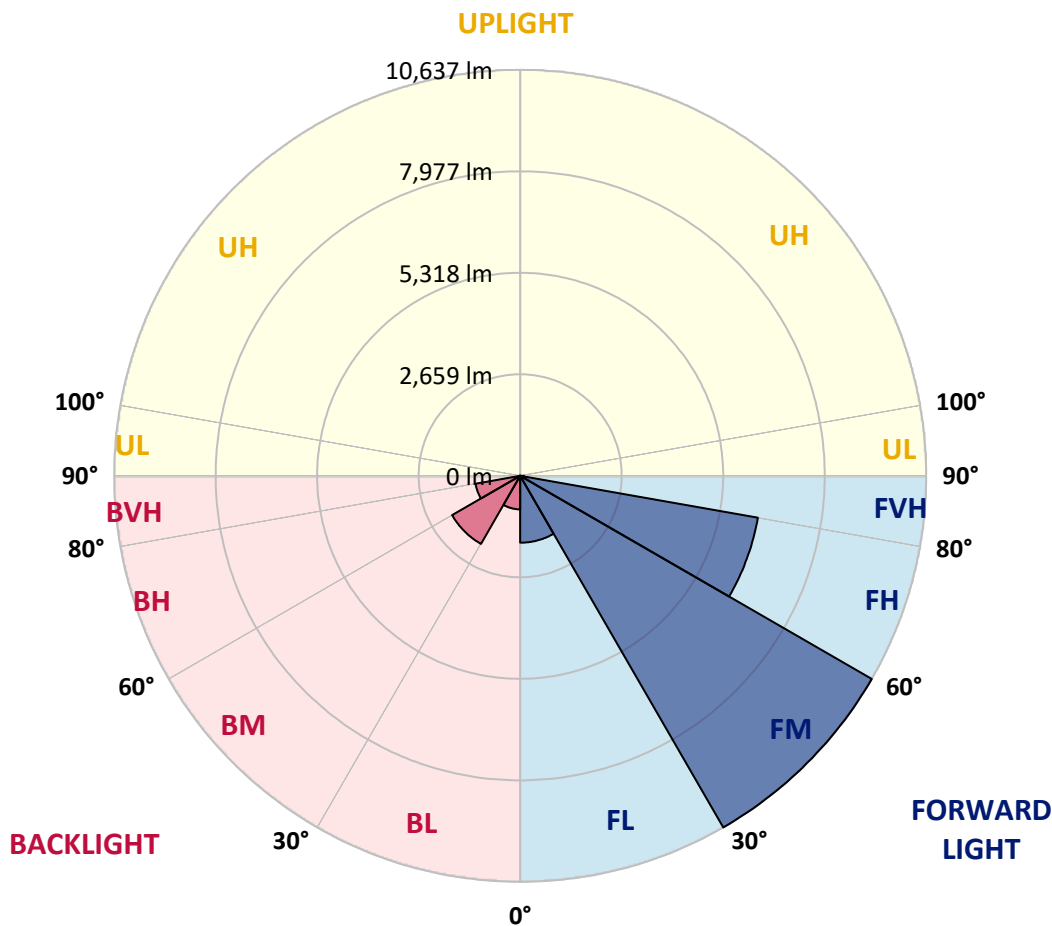
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1752.0  | 7.6       |                         |      |         |
| FM   | (30°-60°)   | 10636.5 | 46.3      |                         |      |         |
| FH   | (60°-80°)   | 6322.6  | 27.5      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 94.1    | 0.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 878.6   | 3.8       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 2058.7  | 9.0       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1187.3  | 5.2       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 35.3    | 0.2       |                         |      | G1/100  |
| 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 Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 65°     | 75°     | 82°     | 85°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3804.6 | 3804.6 | 3804.6 | 3804.6 | 3804.6  | 3804.6  | 3804.6  | 3804.6  | 3804.6  | 3804.6  | 3804.6  |
| 2.5°  | 4021.2 | 4044.3 | 4031.0 | 4024.5 | 4012.9  | 3996.4  | 3983.2  | 3941.7  | 3898.8  | 3870.7  | 3860.8  |
| 5°    | 4102.2 | 4125.3 | 4123.7 | 4130.2 | 4138.5  | 4143.5  | 4140.2  | 4093.8  | 4032.8  | 3984.8  | 3956.7  |
| 7.5°  | 4032.8 | 4059.2 | 4080.6 | 4113.7 | 4171.6  | 4232.7  | 4262.6  | 4252.6  | 4189.8  | 4123.7  | 4088.9  |
| 10°   | 3836.0 | 3864.0 | 3915.3 | 3993.0 | 4115.4  | 4247.7  | 4358.4  | 4409.7  | 4370.0  | 4297.3  | 4249.3  |
| 12.5° | 3475.5 | 3503.7 | 3604.5 | 3773.1 | 3978.1  | 4207.9  | 4419.6  | 4556.8  | 4566.8  | 4494.0  | 4437.8  |
| 15°   | 3070.4 | 3098.6 | 3206.0 | 3417.7 | 3730.2  | 4098.9  | 4452.7  | 4712.2  | 4799.9  | 4737.0  | 4669.3  |
| 17.5° | 2819.1 | 2843.9 | 2924.9 | 3095.2 | 3420.9  | 3880.6  | 4441.1  | 4877.7  | 5077.6  | 5028.0  | 4947.1  |
| 20°   | 2743.0 | 2764.5 | 2802.6 | 2921.7 | 3192.8  | 3654.1  | 4365.1  | 5033.1  | 5376.9  | 5348.9  | 5257.9  |
| 22.5° | 2824.1 | 2843.9 | 2855.4 | 2908.3 | 3078.7  | 3505.3  | 4269.1  | 5191.7  | 5724.2  | 5727.5  | 5616.7  |
| 25°   | 3010.9 | 3030.7 | 3017.5 | 3050.6 | 3125.0  | 3459.0  | 4232.7  | 5378.6  | 6160.7  | 6197.0  | 6071.4  |
| 27.5° | 3318.4 | 3320.1 | 3288.7 | 3287.0 | 3298.6  | 3528.5  | 4270.8  | 5578.7  | 6711.3  | 6779.0  | 6623.7  |
| 30°   | 3935.2 | 3910.4 | 3789.6 | 3659.0 | 3599.5  | 3736.7  | 4376.6  | 5815.1  | 7361.0  | 7481.8  | 7286.6  |
| 32.5° | 4885.9 | 4849.5 | 4628.0 | 4315.5 | 4001.3  | 4072.4  | 4566.8  | 6084.6  | 8068.7  | 8287.0  | 8048.9  |
| 35°   | 5917.6 | 5907.7 | 5676.2 | 5211.6 | 4662.7  | 4550.3  | 4875.9  | 6438.4  | 8840.9  | 9188.1  | 8905.4  |
| 37.5° | 6876.6 | 6871.7 | 6739.4 | 6192.1 | 5524.1  | 5216.5  | 5372.0  | 6901.4  | 9667.6  | 10170.3 | 9836.3  |
| 40°   | 7752.9 | 7767.9 | 7635.5 | 7146.1 | 6473.2  | 6071.4  | 6046.6  | 7473.5  | 10586.9 | 11240.0 | 10843.2 |
| 42.5° | 8510.2 | 8526.8 | 8392.8 | 8030.7 | 7410.6  | 7017.2  | 6875.0  | 8174.6  | 11484.7 | 12389.2 | 11919.6 |
| 45°   | 9024.4 | 9126.9 | 9107.1 | 8817.8 | 8373.0  | 7964.6  | 7870.4  | 9054.2  | 12508.2 | 13607.7 | 13057.2 |
| 47.5° | 9170.0 | 9264.2 | 9413.0 | 9452.7 | 9181.5  | 8779.7  | 8892.2  | 10114.1 | 13543.2 | 14828.0 | 14201.3 |
| 50°   | 8811.1 | 8898.7 | 9208.0 | 9619.6 | 9808.1  | 9684.1  | 9885.8  | 11250.0 | 14603.1 | 16044.9 | 15324.0 |
| 52.5° | 8103.4 | 8192.7 | 8582.9 | 9234.4 | 10003.3 | 10393.5 | 10882.8 | 12369.3 | 15629.9 | 17197.3 | 16387.2 |
| 55°   | 7080.0 | 7174.3 | 7675.2 | 8412.7 | 9631.2  | 10686.1 | 11714.5 | 13487.1 | 16570.7 | 18234.0 | 17346.2 |
| 57.5° | 5687.8 | 5757.2 | 6278.1 | 7309.8 | 8695.4  | 10395.1 | 12328.0 | 14707.3 | 17456.9 | 19252.6 | 18296.9 |
| 60°   | 3707.0 | 3768.2 | 4373.4 | 5524.1 | 7144.5  | 9422.9  | 12450.4 | 16068.0 | 18634.2 | 20577.0 | 19578.3 |
| 62.5° | 2465.2 | 2506.6 | 2865.4 | 3710.3 | 5031.4  | 7556.2  | 11734.4 | 17154.3 | 20360.4 | 22881.8 | 21775.7 |
| 65°   | 1691.5 | 1732.8 | 2091.6 | 2680.2 | 3250.7  | 4998.3  | 9675.9  | 17010.5 | 21924.4 | 24712.1 | 23404.3 |
| 67.5° | 1207.0 | 1241.7 | 1546.0 | 2101.6 | 2352.8  | 2903.4  | 6559.2  | 15171.8 | 21699.7 | 24781.6 | 23492.0 |
| 70°   | 864.8  | 884.6  | 1135.9 | 1636.9 | 1870.0  | 1744.3  | 3647.5  | 11603.8 | 18999.6 | 22883.4 | 21702.9 |
| 72.5° | 605.2  | 611.7  | 788.7  | 1246.7 | 1506.2  | 1273.2  | 1736.1  | 7736.4  | 14370.0 | 17961.2 | 16825.3 |
| 75°   | 410.0  | 418.3  | 530.7  | 914.3  | 1208.7  | 972.2   | 919.3   | 4148.5  | 8435.9  | 9942.1  | 8912.0  |
| 77.5° | 251.3  | 254.6  | 342.2  | 625.0  | 904.5   | 740.8   | 591.9   | 1757.6  | 3263.9  | 3204.4  | 2731.4  |
| 80°   | 142.2  | 142.2  | 218.2  | 388.6  | 616.7   | 477.9   | 415.0   | 747.3   | 1033.4  | 907.7   | 800.2   |
| 82.5° | 79.3   | 81.0   | 158.8  | 241.4  | 408.4   | 282.7   | 228.2   | 345.5   | 446.4   | 395.1   | 343.9   |
| 85°   | 33.1   | 36.4   | 97.6   | 114.1  | 195.1   | 140.5   | 92.6    | 145.5   | 165.3   | 147.2   | 107.5   |
| 87.5° | 3.3    | 4.9    | 29.7   | 21.5   | 23.2    | 28.1    | 13.2    | 28.1    | 23.2    | 23.2    | 16.5    |
| 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: P970519

CATALOG NUMBER: NVN-SB6B-830-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3804.6  | 3804.6 | 3804.6 | 3804.6 | 3804.6 | 3804.6 | 3804.6 | 3804.6 | 3804.6 | 3804.6 | 3804.6 |
| 2.5°  | 3829.3  | 3804.6 | 3741.8 | 3669.0 | 3573.0 | 3526.7 | 3464.0 | 3420.9 | 3384.6 | 3387.8 | 3354.8 |
| 5°    | 3903.7  | 3840.9 | 3700.4 | 3525.1 | 3306.9 | 3151.5 | 2986.1 | 2872.0 | 2779.4 | 2759.6 | 2714.9 |
| 7.5°  | 4006.2  | 3907.1 | 3660.7 | 3344.9 | 2976.2 | 2696.8 | 2447.1 | 2286.7 | 2172.6 | 2136.2 | 2099.8 |
| 10°   | 4138.5  | 3994.7 | 3609.4 | 3118.4 | 2587.6 | 2232.1 | 1964.3 | 1838.6 | 1761.0 | 1734.4 | 1714.6 |
| 12.5° | 4292.3  | 4095.6 | 3541.7 | 2842.2 | 2187.5 | 1845.2 | 1675.0 | 1612.1 | 1587.3 | 1579.0 | 1574.1 |
| 15°   | 4485.7  | 4221.3 | 3439.2 | 2514.8 | 1848.5 | 1608.7 | 1536.1 | 1527.8 | 1531.0 | 1527.8 | 1526.1 |
| 17.5° | 4715.6  | 4358.4 | 3272.1 | 2177.6 | 1620.3 | 1488.1 | 1461.6 | 1468.2 | 1476.5 | 1474.9 | 1471.6 |
| 20°   | 4966.9  | 4494.0 | 3058.8 | 1878.3 | 1464.9 | 1402.1 | 1387.2 | 1393.8 | 1400.5 | 1397.2 | 1395.5 |
| 22.5° | 5252.9  | 4639.6 | 2822.4 | 1645.1 | 1360.8 | 1322.8 | 1306.3 | 1307.9 | 1307.9 | 1301.2 | 1298.0 |
| 25°   | 5595.2  | 4799.9 | 2574.4 | 1479.8 | 1281.5 | 1251.6 | 1231.8 | 1225.2 | 1215.2 | 1195.5 | 1192.1 |
| 27.5° | 6003.6  | 4970.2 | 2336.3 | 1364.1 | 1218.6 | 1190.4 | 1167.4 | 1150.8 | 1126.0 | 1093.0 | 1089.6 |
| 30°   | 6463.2  | 5176.9 | 2134.6 | 1291.3 | 1169.0 | 1140.8 | 1114.4 | 1089.6 | 1053.2 | 1011.9 | 1008.6 |
| 32.5° | 7003.9  | 5398.5 | 1987.4 | 1243.4 | 1124.3 | 1094.6 | 1063.1 | 1033.4 | 993.7  | 952.3  | 954.1  |
| 35°   | 7648.8  | 5666.3 | 1901.5 | 1210.3 | 1089.6 | 1049.9 | 1015.2 | 982.2  | 952.3  | 916.0  | 912.7  |
| 37.5° | 8348.2  | 5950.7 | 1875.0 | 1193.8 | 1066.5 | 1005.3 | 965.7  | 942.5  | 939.1  | 917.7  | 916.0  |
| 40°   | 9113.7  | 6288.0 | 1894.8 | 1183.9 | 1041.7 | 962.3  | 919.3  | 914.3  | 922.6  | 884.6  | 886.2  |
| 42.5° | 9923.8  | 6688.1 | 1927.9 | 1172.3 | 1007.0 | 919.3  | 878.0  | 878.0  | 871.4  | 818.5  | 818.5  |
| 45°   | 10800.2 | 7149.5 | 1960.9 | 1144.2 | 965.7  | 876.3  | 844.9  | 833.3  | 805.2  | 754.0  | 752.3  |
| 47.5° | 11683.2 | 7619.0 | 1985.7 | 1093.0 | 916.0  | 840.0  | 811.8  | 785.4  | 744.0  | 697.7  | 696.1  |
| 50°   | 12521.4 | 8040.6 | 1959.3 | 1016.9 | 859.8  | 805.2  | 775.4  | 739.1  | 694.4  | 663.1  | 658.0  |
| 52.5° | 13270.5 | 8406.0 | 1846.8 | 927.6  | 800.2  | 768.9  | 742.4  | 704.4  | 668.0  | 634.9  | 631.6  |
| 55°   | 13921.9 | 8702.0 | 1648.5 | 843.3  | 747.3  | 737.4  | 710.9  | 663.1  | 613.5  | 585.3  | 582.0  |
| 57.5° | 14546.9 | 8926.8 | 1400.5 | 773.8  | 699.4  | 702.7  | 663.1  | 620.0  | 573.7  | 544.0  | 540.7  |
| 60°   | 15378.6 | 9227.8 | 1149.1 | 709.3  | 648.1  | 658.0  | 615.1  | 583.6  | 525.8  | 487.8  | 482.8  |
| 62.5° | 16707.9 | 9695.7 | 912.7  | 630.0  | 588.7  | 591.9  | 573.7  | 535.7  | 466.3  | 421.6  | 418.3  |
| 65°   | 17762.8 | 9523.8 | 719.2  | 544.0  | 520.8  | 525.8  | 525.8  | 484.4  | 410.0  | 358.7  | 353.8  |
| 67.5° | 17643.7 | 8154.7 | 573.7  | 459.6  | 456.3  | 459.6  | 471.2  | 436.5  | 363.8  | 322.5  | 315.8  |
| 70°   | 16253.2 | 6486.4 | 459.6  | 381.9  | 396.8  | 388.6  | 421.6  | 398.5  | 327.4  | 286.1  | 281.1  |
| 72.5° | 13262.2 | 4672.6 | 350.5  | 315.8  | 304.2  | 317.4  | 380.3  | 358.7  | 272.9  | 226.5  | 221.6  |
| 75°   | 7749.6  | 2493.4 | 261.3  | 249.7  | 219.9  | 264.6  | 337.3  | 305.9  | 208.4  | 167.0  | 162.1  |
| 77.5° | 2523.1  | 869.7  | 191.8  | 183.6  | 163.7  | 213.3  | 287.7  | 257.9  | 170.3  | 132.2  | 127.3  |
| 80°   | 676.3   | 262.9  | 130.6  | 120.7  | 105.8  | 158.8  | 228.2  | 205.0  | 122.4  | 86.0   | 84.4   |
| 82.5° | 271.1   | 110.8  | 76.1   | 67.8   | 57.9   | 109.2  | 180.2  | 165.3  | 90.9   | 54.5   | 54.5   |
| 85°   | 87.6    | 36.4   | 28.1   | 21.5   | 26.4   | 67.8   | 107.5  | 112.4  | 64.5   | 28.1   | 21.5   |
| 87.5° | 11.6    | 4.9    | 4.9    | 6.7    | 4.9    | 11.6   | 33.1   | 31.4   | 18.1   | 3.3    | 0.0    |
| 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)