

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: P966791

Luminaire Tested: **NVN-SB4C-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966791
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB4C-827-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26145.7 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

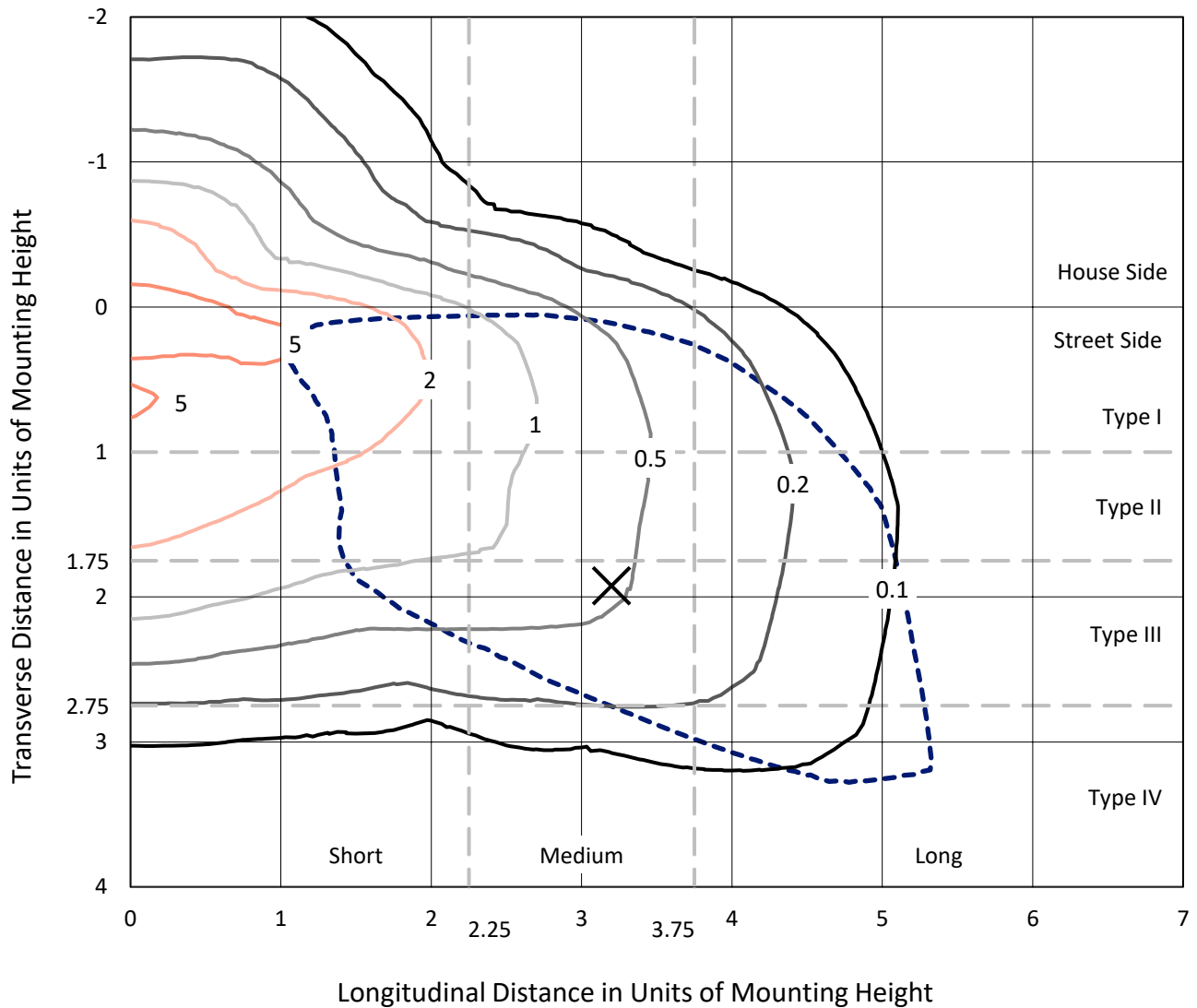
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

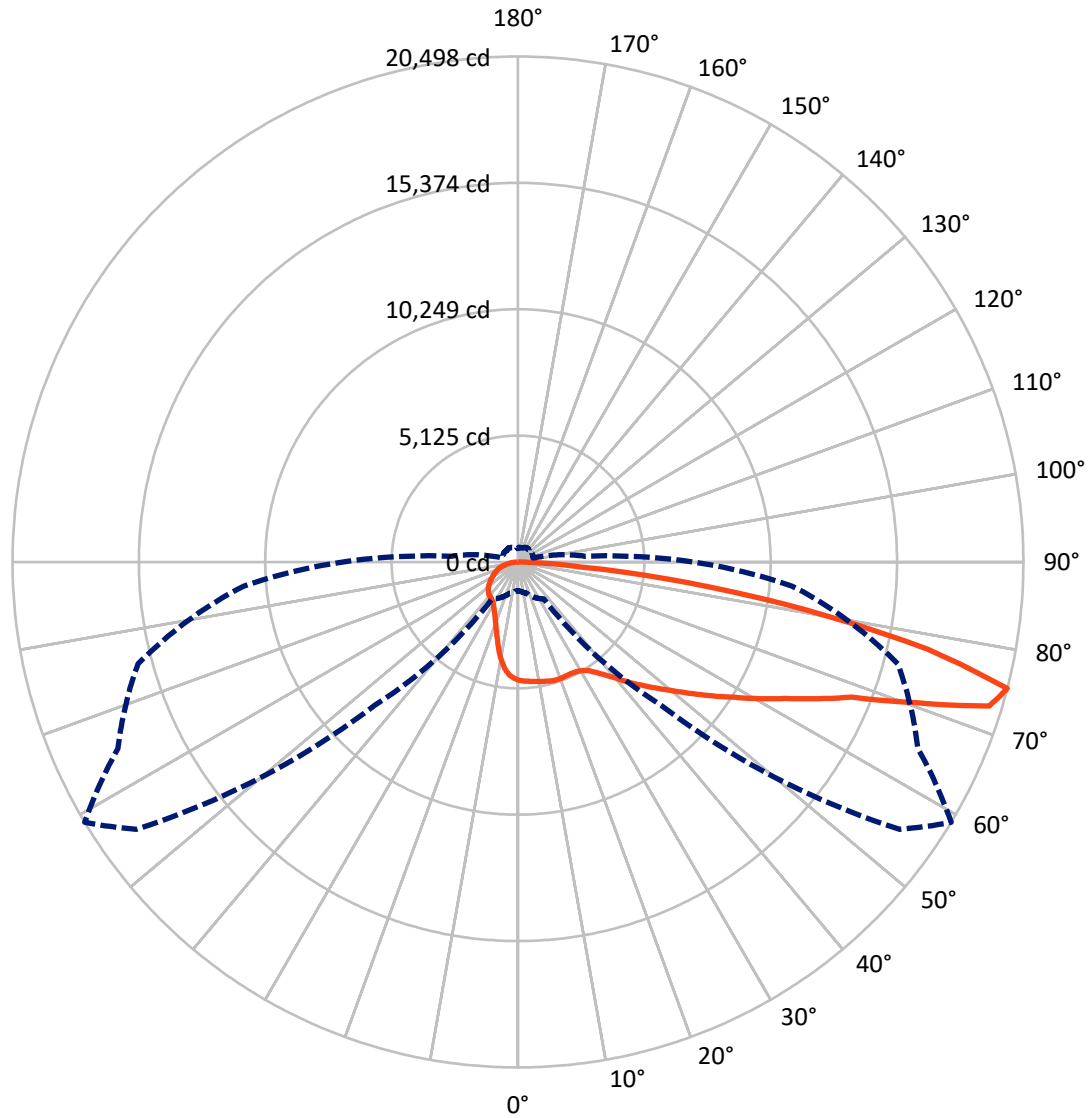
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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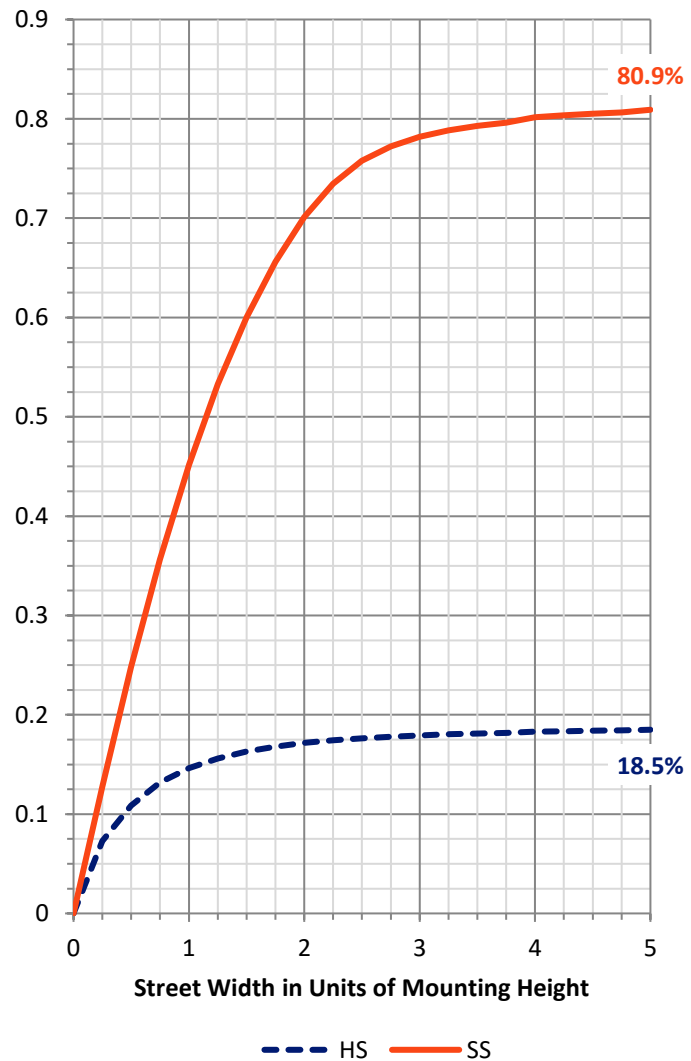
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4903.8 | 0.0 | 4903.8 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 21241.9 | 0.0 | 21241.9 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 26145.7 | 0.0 | 26145.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 430.3 | 1.6 |
| 10°-20° | 1099.9 | 4.2 |
| 20°-30° | 1670.7 | 6.4 |
| 30°-40° | 2483.4 | 9.5 |
| 40°-50° | 3693.2 | 14.1 |
| 50°-60° | 5013.1 | 19.2 |
| 60°-70° | 6120.2 | 23.4 |
| 70°-80° | 4803.0 | 18.4 |
| 80°-90° | 832.0 | 3.2 |
| 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° | 26145.7 | 100.0 |
| 0°-180° | 26145.7 | 100.0 |

Coefficient of Utilization



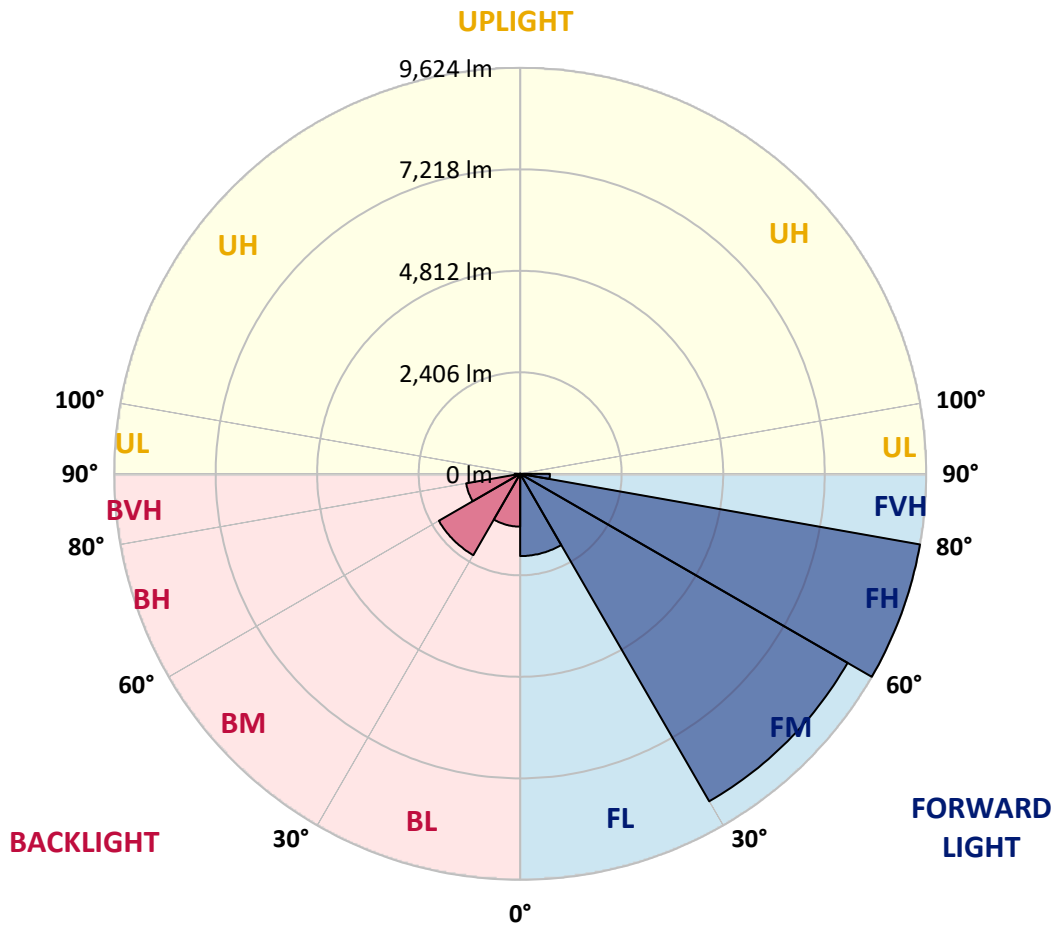
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 CATALOG NUMBER: NVN-SB4C-827-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1949.4 | 7.5 | | | |
| FM (30°-60°) | 8963.8 | 34.3 | | | |
| FH (60°-80°) | 9624.0 | 36.8 | | | G4/12000 |
| FVH (80°-90°) | 704.6 | 2.7 | | | G4/750 |
| BL (0°-30°) | 1251.4 | 4.8 | B3/2500 | | |
| BM (30°-60°) | 2225.8 | 8.5 | B2/2500 | | |
| BH (60°-80°) | 1299.2 | 5.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 127.4 | 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-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 4798.9 | 4798.9 | 4798.9 | 4798.9 | 4798.9 | 4798.9 | 4798.9 | 4798.9 | 4798.9 | 4798.9 | 4798.9 |
| 2.5° | 4839.7 | 4822.9 | 4839.7 | 4832.8 | 4829.9 | 4824.3 | 4825.7 | 4835.5 | 4829.9 | 4837.0 | 4813.1 |
| 5° | 4807.5 | 4797.6 | 4814.4 | 4810.2 | 4828.6 | 4831.3 | 4849.6 | 4860.9 | 4867.9 | 4869.3 | 4851.0 |
| 7.5° | 4754.0 | 4744.1 | 4768.0 | 4787.8 | 4827.1 | 4838.4 | 4876.3 | 4894.6 | 4904.5 | 4921.3 | 4894.6 |
| 10° | 4558.5 | 4554.3 | 4613.3 | 4687.8 | 4780.7 | 4838.4 | 4896.0 | 4927.0 | 4942.4 | 4987.4 | 4956.5 |
| 12.5° | 4212.4 | 4218.1 | 4295.5 | 4439.0 | 4624.6 | 4810.2 | 4918.6 | 4963.6 | 4987.4 | 5043.7 | 5029.7 |
| 15° | 3882.0 | 3880.5 | 3964.9 | 4118.2 | 4378.4 | 4686.5 | 4929.8 | 5007.1 | 5047.9 | 5130.9 | 5119.7 |
| 17.5° | 3690.6 | 3685.1 | 3744.1 | 3860.9 | 4102.8 | 4496.6 | 4901.7 | 5031.0 | 5118.2 | 5222.4 | 5212.5 |
| 20° | 3655.5 | 3644.3 | 3675.2 | 3732.8 | 3904.4 | 4288.4 | 4828.6 | 5031.0 | 5174.5 | 5309.5 | 5304.0 |
| 22.5° | 3783.5 | 3765.2 | 3752.5 | 3745.6 | 3821.5 | 4116.8 | 4745.5 | 5014.2 | 5257.5 | 5434.8 | 5424.9 |
| 25° | 4040.9 | 4012.8 | 3948.1 | 3884.7 | 3862.3 | 4039.5 | 4672.4 | 5010.0 | 5381.2 | 5603.5 | 5567.0 |
| 27.5° | 4457.2 | 4422.1 | 4291.3 | 4139.4 | 4002.9 | 4078.9 | 4640.1 | 5035.3 | 5517.7 | 5782.1 | 5708.9 |
| 30° | 4973.4 | 4935.4 | 4770.9 | 4537.4 | 4292.6 | 4225.2 | 4680.9 | 5109.8 | 5692.1 | 6019.8 | 5876.3 |
| 32.5° | 5436.1 | 5394.0 | 5253.3 | 5015.6 | 4685.1 | 4478.3 | 4810.2 | 5251.9 | 5966.4 | 6350.4 | 6128.2 |
| 35° | 5846.8 | 5797.6 | 5671.0 | 5451.6 | 5166.1 | 4834.1 | 5043.7 | 5503.6 | 6356.0 | 6887.6 | 6469.9 |
| 37.5° | 6249.1 | 6191.4 | 6053.5 | 5821.5 | 5621.8 | 5308.2 | 5365.8 | 5827.1 | 6873.5 | 7540.2 | 6922.8 |
| 40° | 6699.2 | 6616.2 | 6448.8 | 6219.6 | 6025.5 | 5863.7 | 5789.2 | 6223.8 | 7399.6 | 8268.8 | 7488.2 |
| 42.5° | 7135.2 | 7056.4 | 6856.7 | 6661.2 | 6417.8 | 6371.5 | 6280.1 | 6687.9 | 7974.9 | 9069.1 | 8062.0 |
| 45° | 7605.0 | 7510.7 | 7268.8 | 7021.2 | 6867.9 | 6709.0 | 6755.5 | 7152.0 | 8538.9 | 9884.9 | 8664.0 |
| 47.5° | 8045.2 | 7939.8 | 7654.2 | 7378.5 | 7294.1 | 6993.2 | 7191.4 | 7662.6 | 9125.4 | 10712.0 | 9260.4 |
| 50° | 8282.9 | 8178.8 | 7941.1 | 7692.1 | 7626.1 | 7343.3 | 7664.0 | 8223.8 | 9740.1 | 11536.2 | 9832.8 |
| 52.5° | 8481.2 | 8368.7 | 8057.8 | 7920.0 | 7900.3 | 7724.5 | 8246.3 | 8865.2 | 10354.7 | 12264.7 | 10385.6 |
| 55° | 8692.2 | 8567.1 | 8170.4 | 8046.6 | 8136.7 | 8152.1 | 8936.9 | 9592.4 | 11004.5 | 12975.0 | 10907.4 |
| 57.5° | 8935.5 | 8776.6 | 8278.7 | 8153.5 | 8367.3 | 8652.8 | 9730.2 | 10346.2 | 11643.0 | 13633.2 | 11371.6 |
| 60° | 9164.7 | 9004.4 | 8486.8 | 8323.7 | 8616.3 | 9233.7 | 10640.2 | 11259.0 | 12366.0 | 14219.7 | 11810.4 |
| 62.5° | 9209.7 | 9077.6 | 8652.8 | 8651.4 | 8953.8 | 9911.6 | 11717.6 | 12180.3 | 12997.5 | 14799.3 | 12204.3 |
| 65° | 8430.5 | 8347.6 | 8095.9 | 8638.7 | 9437.6 | 10887.8 | 12917.4 | 13358.9 | 13800.6 | 15305.5 | 12550.2 |
| 67.5° | 6416.5 | 6427.7 | 6409.4 | 7457.3 | 9046.6 | 12290.1 | 14654.3 | 14620.6 | 14792.2 | 15873.8 | 12948.2 |
| 70° | 2934.0 | 3000.1 | 3430.5 | 5147.8 | 7247.7 | 12451.8 | 17526.4 | 17089.0 | 16036.9 | 16609.4 | 13292.8 |
| 72.5° | 1585.2 | 1635.8 | 1811.6 | 2493.7 | 4357.4 | 11070.6 | 19672.7 | 19983.6 | 17692.4 | 17104.5 | 12914.5 |
| 75° | 1163.2 | 1191.4 | 1313.6 | 1585.2 | 1829.8 | 8228.1 | 18903.4 | 20498.4 | 17899.2 | 15949.7 | 11152.2 |
| 77.5° | 870.6 | 883.2 | 983.2 | 1256.0 | 936.7 | 4337.7 | 15104.4 | 16976.5 | 15322.4 | 13104.4 | 8237.9 |
| 80° | 631.5 | 645.5 | 720.2 | 942.4 | 656.8 | 1586.5 | 10371.6 | 11915.9 | 10493.9 | 8353.2 | 4105.5 |
| 82.5° | 436.0 | 441.7 | 474.0 | 641.3 | 458.5 | 616.0 | 5884.8 | 6987.5 | 5858.1 | 2931.2 | 1108.3 |
| 85° | 263.0 | 270.1 | 284.1 | 374.1 | 260.2 | 292.5 | 2540.2 | 2627.4 | 1751.1 | 700.5 | 344.6 |
| 87.5° | 108.3 | 115.3 | 126.6 | 157.5 | 102.7 | 81.6 | 419.1 | 526.0 | 327.7 | 205.3 | 106.9 |
| 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-SB4C-827-U-SL3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4798.9 | 4798.9 | 4798.9 | 4798.9 | 4798.9 | 4798.9 | 4798.9 | 4798.9 | 4798.9 | 4798.9 | 4798.9 |
| 2.5° | 4806.0 | 4796.2 | 4769.4 | 4732.8 | 4699.1 | 4656.9 | 4638.6 | 4623.2 | 4609.1 | 4582.4 | 4569.8 |
| 5° | 4835.5 | 4808.8 | 4737.1 | 4644.3 | 4538.8 | 4423.5 | 4310.9 | 4233.6 | 4167.4 | 4118.2 | 4077.4 |
| 7.5° | 4880.5 | 4829.9 | 4699.1 | 4509.3 | 4267.3 | 4019.7 | 3796.2 | 3637.2 | 3517.7 | 3474.0 | 3398.1 |
| 10° | 4927.0 | 4866.5 | 4638.6 | 4303.9 | 3886.2 | 3505.0 | 3208.2 | 3045.1 | 2949.4 | 2918.5 | 2870.7 |
| 12.5° | 4981.8 | 4893.2 | 4544.4 | 4018.4 | 3460.0 | 3042.3 | 2783.5 | 2687.9 | 2638.6 | 2621.7 | 2625.9 |
| 15° | 5062.0 | 4915.7 | 4402.4 | 3661.1 | 3053.5 | 2704.7 | 2537.3 | 2471.3 | 2446.0 | 2444.5 | 2450.2 |
| 17.5° | 5122.4 | 4919.9 | 4181.5 | 3278.6 | 2741.3 | 2500.8 | 2362.9 | 2337.6 | 2354.5 | 2379.8 | 2389.7 |
| 20° | 5190.0 | 4882.0 | 3891.8 | 2929.8 | 2521.8 | 2322.1 | 2264.4 | 2281.3 | 2322.1 | 2358.7 | 2371.3 |
| 22.5° | 5237.9 | 4813.1 | 3541.6 | 2658.3 | 2332.0 | 2219.4 | 2216.7 | 2251.8 | 2274.3 | 2292.6 | 2302.5 |
| 25° | 5280.0 | 4696.3 | 3170.2 | 2430.5 | 2175.9 | 2157.6 | 2188.5 | 2177.3 | 2161.8 | 2177.3 | 2187.1 |
| 27.5° | 5310.9 | 4512.0 | 2838.3 | 2230.7 | 2066.2 | 2115.4 | 2097.0 | 2071.7 | 2070.4 | 2078.8 | 2092.8 |
| 30° | 5301.1 | 4265.9 | 2565.5 | 2040.9 | 1988.8 | 2036.6 | 1993.0 | 1988.8 | 1984.6 | 1988.8 | 2004.3 |
| 32.5° | 5301.1 | 3986.0 | 2355.9 | 1910.0 | 1939.6 | 1921.3 | 1917.1 | 1907.2 | 1890.3 | 1889.0 | 1907.2 |
| 35° | 5330.6 | 3706.1 | 2175.9 | 1839.7 | 1898.8 | 1855.1 | 1858.0 | 1834.0 | 1798.9 | 1782.1 | 1798.9 |
| 37.5° | 5391.1 | 3481.1 | 1997.2 | 1805.9 | 1827.1 | 1825.6 | 1814.4 | 1773.6 | 1711.7 | 1658.2 | 1676.6 |
| 40° | 5537.4 | 3415.0 | 1874.8 | 1790.5 | 1793.3 | 1810.2 | 1780.6 | 1701.9 | 1561.2 | 1474.1 | 1485.2 |
| 42.5° | 5766.6 | 3526.1 | 1848.2 | 1752.5 | 1770.8 | 1787.7 | 1730.0 | 1547.1 | 1447.3 | 1395.2 | 1395.2 |
| 45° | 6057.9 | 3720.2 | 1905.8 | 1697.6 | 1717.4 | 1746.9 | 1575.3 | 1488.1 | 1443.1 | 1444.4 | 1451.5 |
| 47.5° | 6426.3 | 3924.1 | 2012.7 | 1649.8 | 1640.0 | 1656.8 | 1472.6 | 1419.1 | 1357.3 | 1372.8 | 1412.1 |
| 50° | 6852.4 | 4130.9 | 2114.0 | 1585.2 | 1554.2 | 1499.4 | 1406.5 | 1355.9 | 1277.1 | 1240.6 | 1250.4 |
| 52.5° | 7313.8 | 4330.6 | 2154.8 | 1506.3 | 1461.3 | 1398.1 | 1361.5 | 1299.6 | 1204.0 | 1143.5 | 1142.1 |
| 55° | 7751.3 | 4512.0 | 2109.8 | 1412.1 | 1368.5 | 1319.3 | 1313.6 | 1275.7 | 1173.0 | 1088.7 | 1088.7 |
| 57.5° | 8164.7 | 4664.0 | 1997.2 | 1316.5 | 1274.3 | 1244.8 | 1282.7 | 1264.4 | 1135.1 | 1026.7 | 1021.1 |
| 60° | 8515.0 | 4768.0 | 1834.0 | 1219.4 | 1189.9 | 1174.4 | 1232.0 | 1226.5 | 1081.6 | 960.6 | 956.4 |
| 62.5° | 8793.5 | 4808.8 | 1654.0 | 1126.6 | 1119.6 | 1091.4 | 1161.7 | 1161.7 | 1014.1 | 896.0 | 891.7 |
| 65° | 9011.5 | 4769.4 | 1471.2 | 1035.1 | 1049.3 | 1007.1 | 1075.9 | 1067.5 | 942.4 | 838.2 | 832.6 |
| 67.5° | 9204.2 | 4640.1 | 1268.6 | 945.2 | 977.5 | 924.0 | 985.9 | 966.3 | 863.6 | 780.6 | 775.0 |
| 70° | 9290.0 | 4339.0 | 1038.0 | 855.2 | 894.5 | 842.4 | 896.0 | 859.4 | 775.0 | 718.7 | 707.5 |
| 72.5° | 8600.8 | 3606.3 | 817.1 | 761.0 | 794.7 | 752.5 | 798.9 | 756.7 | 679.4 | 654.1 | 632.9 |
| 75° | 7115.4 | 2706.1 | 628.7 | 658.3 | 683.6 | 651.2 | 682.1 | 651.2 | 580.9 | 599.2 | 547.1 |
| 77.5° | 5167.5 | 1827.1 | 481.0 | 549.9 | 561.2 | 544.3 | 571.0 | 535.9 | 472.6 | 468.3 | 447.3 |
| 80° | 2569.7 | 1070.3 | 376.9 | 434.6 | 430.4 | 419.1 | 450.1 | 433.2 | 379.8 | 402.2 | 398.0 |
| 82.5° | 744.0 | 458.5 | 274.3 | 305.2 | 296.7 | 299.6 | 322.1 | 330.6 | 495.1 | 490.9 | 502.1 |
| 85° | 233.5 | 180.0 | 164.5 | 170.1 | 161.7 | 165.9 | 189.8 | 376.9 | 348.8 | 204.0 | 220.8 |
| 87.5° | 60.5 | 61.9 | 40.8 | 43.6 | 45.0 | 53.4 | 60.5 | 229.3 | 109.7 | 71.8 | 76.0 |
| 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)