

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: P964236

Luminaire Tested: **NVN-SB3B-835-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964236
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3B-835-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12161.6 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

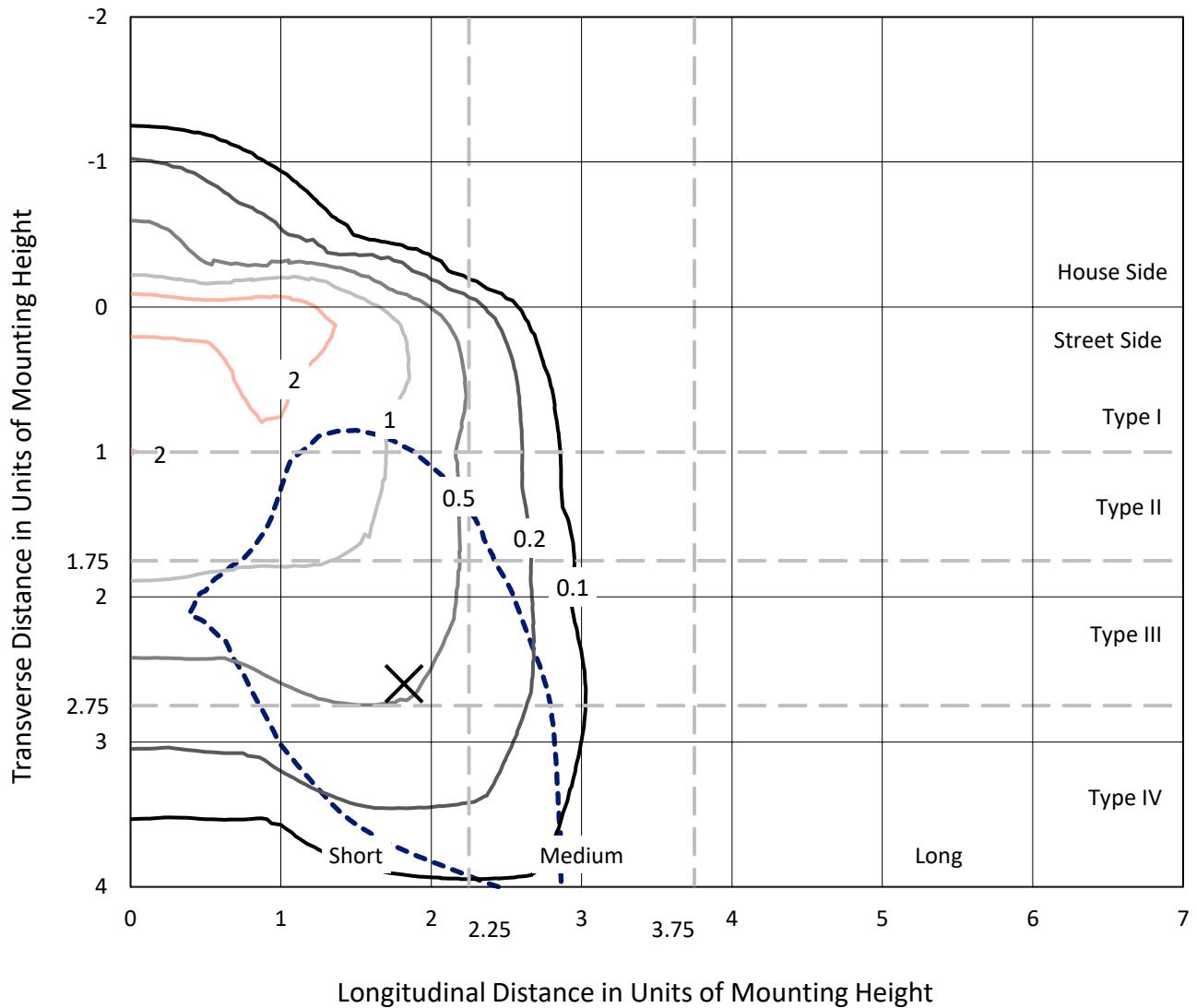
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P964236
 CATALOG NUMBER: NVN-SB3B-835-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

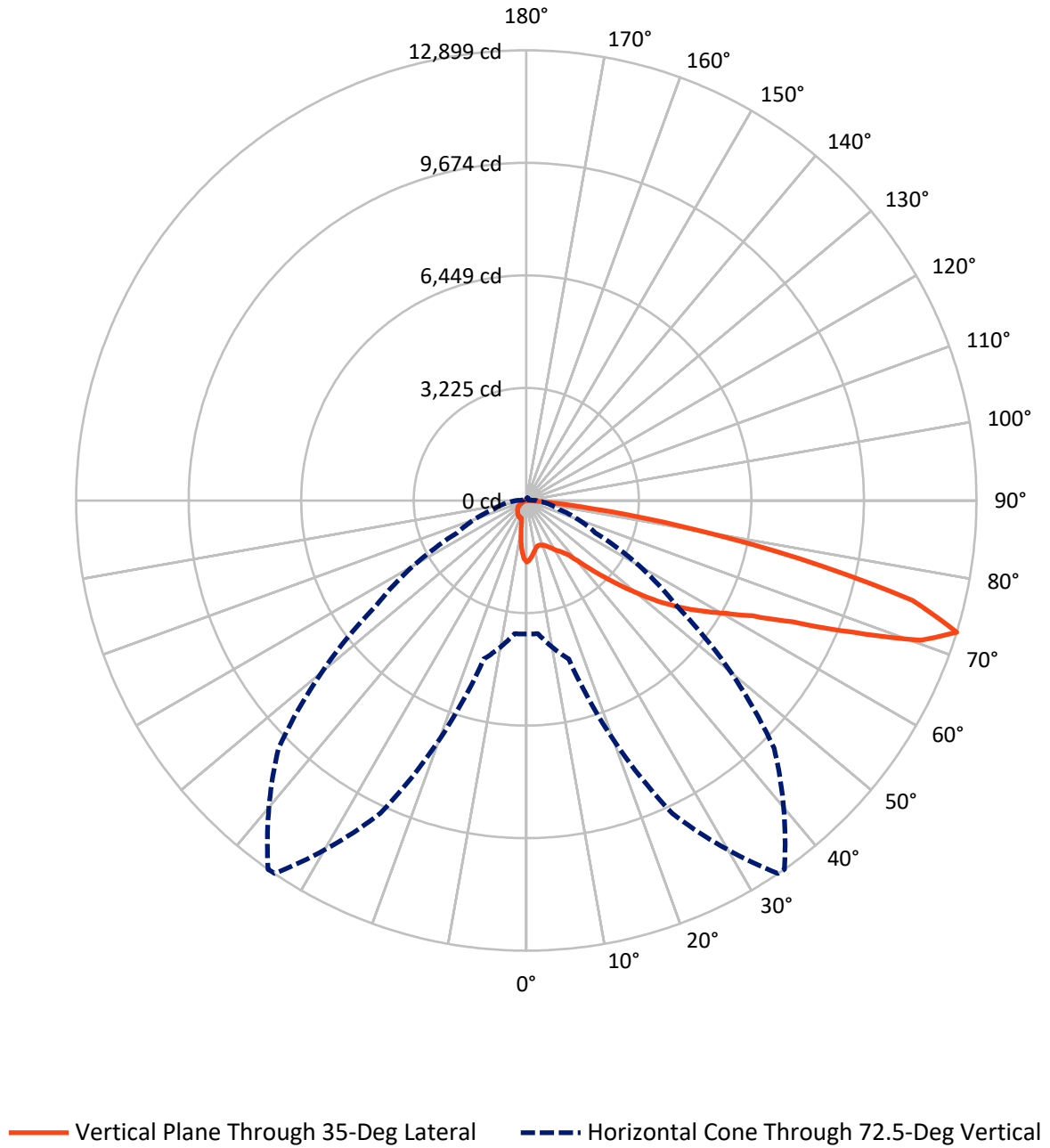
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P964236
CATALOG NUMBER: NVN-SB3B-835-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P964236
 CATALOG NUMBER: NVN-SB3B-835-U-T4FT-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1368.7 | 0.0 | 1368.7 |
| | % Fixture | 11.3 | 0.0 | 11.3 |
| Street Side | Lumens | 10792.9 | 0.0 | 10792.9 |
| | % Fixture | 88.7 | 0.0 | 88.7 |
| Total | Lumens | 12161.6 | 0.0 | 12161.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 144.8 | 1.2 |
| 10°-20° | 338.8 | 2.8 |
| 20°-30° | 550.4 | 4.5 |
| 30°-40° | 918.4 | 7.6 |
| 40°-50° | 1737.6 | 14.3 |
| 50°-60° | 2761.1 | 22.7 |
| 60°-70° | 3415.6 | 28.1 |
| 70°-80° | 2123.2 | 17.5 |
| 80°-90° | 171.6 | 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° | 12161.6 | 100.0 |
| 0°-180° | 12161.6 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P964236

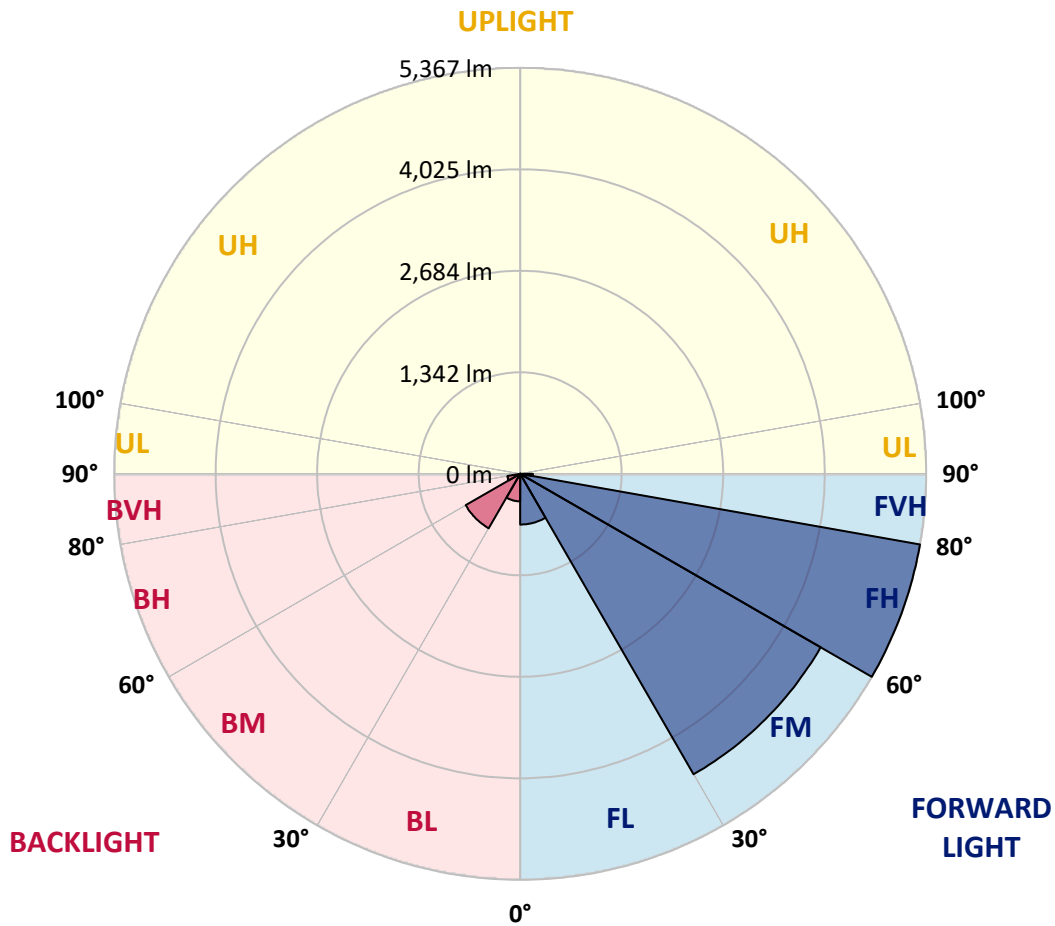
CATALOG NUMBER: NVN-SB3B-835-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 670.4 | 5.5 | | | |
| FM (30°-60°) | 4586.1 | 37.7 | | | |
| FH (60°-80°) | 5367.1 | 44.1 | | | G3/7500 |
| FVH (80°-90°) | 169.2 | 1.4 | | | G2/225 |
| BL (0°-30°) | 363.7 | 3.0 | B1/500 | | |
| BM (30°-60°) | 831.0 | 6.8 | B1/1000 | | |
| BH (60°-80°) | 171.8 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.3 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type IV Short



REPORT NUMBER: P964236

CATALOG NUMBER: NVN-SB3B-835-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 1762.6 | 1762.6 | 1762.6 | 1762.6 | 1762.6 | 1762.6 | 1762.6 | 1762.6 | 1762.6 | 1762.6 | 1762.6 |
| 2.5° | 1684.2 | 1698.4 | 1701.1 | 1705.6 | 1705.6 | 1710.9 | 1719.8 | 1732.4 | 1752.9 | 1763.5 | 1770.7 |
| 5° | 1552.4 | 1563.0 | 1576.3 | 1587.1 | 1607.6 | 1610.3 | 1645.0 | 1678.8 | 1726.1 | 1761.8 | 1786.7 |
| 7.5° | 1419.5 | 1432.0 | 1449.9 | 1475.7 | 1502.4 | 1510.4 | 1563.0 | 1620.0 | 1694.9 | 1761.8 | 1803.6 |
| 10° | 1325.9 | 1326.9 | 1343.0 | 1368.8 | 1411.5 | 1421.4 | 1485.5 | 1566.6 | 1660.2 | 1751.0 | 1819.7 |
| 12.5° | 1273.4 | 1279.6 | 1286.8 | 1306.4 | 1347.4 | 1353.6 | 1422.2 | 1517.6 | 1625.4 | 1744.8 | 1838.3 |
| 15° | 1273.4 | 1277.9 | 1282.3 | 1292.1 | 1325.1 | 1330.4 | 1391.0 | 1486.4 | 1607.6 | 1747.5 | 1868.7 |
| 17.5° | 1286.8 | 1293.9 | 1290.4 | 1302.0 | 1336.7 | 1340.2 | 1393.7 | 1477.4 | 1606.7 | 1764.4 | 1915.0 |
| 20° | 1318.9 | 1324.2 | 1317.0 | 1324.2 | 1358.9 | 1366.1 | 1421.4 | 1494.4 | 1621.9 | 1793.9 | 1972.9 |
| 22.5° | 1369.6 | 1372.3 | 1355.4 | 1360.7 | 1396.4 | 1405.3 | 1469.4 | 1542.5 | 1658.3 | 1841.0 | 2050.4 |
| 25° | 1433.8 | 1439.2 | 1413.3 | 1419.5 | 1453.4 | 1464.1 | 1538.1 | 1614.7 | 1716.3 | 1906.1 | 2149.3 |
| 27.5° | 1507.8 | 1510.4 | 1488.2 | 1487.3 | 1530.9 | 1546.1 | 1620.9 | 1703.9 | 1793.9 | 1988.1 | 2274.2 |
| 30° | 1592.4 | 1600.4 | 1579.0 | 1575.5 | 1630.8 | 1643.2 | 1717.2 | 1813.4 | 1907.8 | 2111.1 | 2451.5 |
| 32.5° | 1659.3 | 1665.5 | 1653.0 | 1661.9 | 1718.1 | 1727.8 | 1833.9 | 1968.5 | 2087.0 | 2285.8 | 2693.0 |
| 35° | 1755.5 | 1759.1 | 1730.5 | 1746.6 | 1810.8 | 1835.7 | 1993.4 | 2185.9 | 2312.4 | 2504.9 | 3008.4 |
| 37.5° | 2103.9 | 2103.9 | 1982.8 | 1903.4 | 1964.9 | 1987.2 | 2211.7 | 2459.5 | 2590.5 | 2799.0 | 3405.9 |
| 40° | 2586.0 | 2578.0 | 2400.7 | 2238.5 | 2230.5 | 2274.2 | 2522.7 | 2804.3 | 2949.6 | 3151.9 | 3853.2 |
| 42.5° | 3100.2 | 3087.7 | 2846.2 | 2685.8 | 2659.1 | 2674.2 | 2881.9 | 3229.4 | 3377.4 | 3582.3 | 4334.4 |
| 45° | 3556.4 | 3552.9 | 3331.9 | 3116.2 | 3068.1 | 3116.2 | 3330.1 | 3726.7 | 3832.7 | 4048.3 | 4814.7 |
| 47.5° | 3938.8 | 3938.8 | 3777.4 | 3636.6 | 3611.7 | 3640.2 | 3936.9 | 4278.2 | 4268.4 | 4544.6 | 5282.5 |
| 50° | 4378.9 | 4375.4 | 4222.1 | 4161.5 | 4187.3 | 4227.4 | 4635.6 | 4859.2 | 4719.3 | 5032.1 | 5700.4 |
| 52.5° | 4687.2 | 4708.6 | 4656.1 | 4646.3 | 4778.1 | 4847.6 | 5344.9 | 5427.8 | 5123.1 | 5494.6 | 6013.3 |
| 55° | 4931.5 | 4956.4 | 5017.0 | 5085.6 | 5339.5 | 5430.4 | 6031.9 | 5966.9 | 5460.8 | 5895.6 | 6193.3 |
| 57.5° | 5277.2 | 5241.5 | 5335.1 | 5470.5 | 5881.3 | 5991.0 | 6697.7 | 6475.7 | 5732.5 | 6220.9 | 6212.8 |
| 60° | 5697.0 | 5702.3 | 5718.3 | 5889.3 | 6422.2 | 6563.1 | 7353.5 | 6957.0 | 5907.2 | 6420.5 | 5995.4 |
| 62.5° | 6201.2 | 6209.2 | 6242.2 | 6505.2 | 7148.6 | 7281.3 | 8052.1 | 7350.8 | 5987.4 | 6364.3 | 5434.0 |
| 65° | 6166.5 | 6200.4 | 6568.4 | 7467.5 | 8252.6 | 8383.6 | 8867.5 | 7627.0 | 5866.2 | 5851.1 | 4424.4 |
| 67.5° | 5617.6 | 5672.9 | 6288.6 | 8617.1 | 9917.2 | 10063.3 | 9853.0 | 7681.5 | 5343.1 | 4550.1 | 2886.3 |
| 70° | 4897.6 | 4917.1 | 5657.7 | 9650.8 | 11844.7 | 11992.6 | 10735.2 | 7083.5 | 4054.6 | 2537.9 | 1293.0 |
| 72.5° | 3824.7 | 3829.1 | 4698.0 | 9890.5 | 12890.9 | 12898.9 | 10042.8 | 5258.5 | 2180.6 | 974.9 | 449.2 |
| 75° | 2732.1 | 2705.4 | 3146.5 | 8020.9 | 11341.2 | 11432.1 | 7529.0 | 2466.6 | 833.2 | 460.7 | 223.7 |
| 77.5° | 1465.0 | 1494.4 | 1780.4 | 4756.8 | 7834.7 | 7989.8 | 4108.0 | 711.1 | 424.1 | 313.6 | 147.9 |
| 80° | 452.6 | 477.6 | 729.8 | 2177.9 | 4437.7 | 4531.3 | 1522.9 | 316.3 | 295.8 | 223.7 | 97.2 |
| 82.5° | 142.6 | 147.9 | 340.4 | 915.2 | 1841.9 | 1884.7 | 441.1 | 179.1 | 202.2 | 147.9 | 57.0 |
| 85° | 41.0 | 41.9 | 151.5 | 341.3 | 455.4 | 464.2 | 123.8 | 69.5 | 115.8 | 91.7 | 29.4 |
| 87.5° | 4.4 | 14.2 | 57.0 | 57.0 | 40.1 | 39.3 | 13.3 | 15.2 | 33.0 | 11.6 | 5.3 |
| 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: P964236
 CATALOG NUMBER: NVN-SB3B-835-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1762.6 | 1762.6 | 1762.6 | 1762.6 | 1762.6 | 1762.6 | 1762.6 | 1762.6 | 1762.6 | 1762.6 | 1762.6 |
| 2.5° | 1766.2 | 1767.1 | 1755.5 | 1735.9 | 1714.5 | 1696.7 | 1674.4 | 1656.6 | 1644.1 | 1640.5 | 1646.8 |
| 5° | 1778.7 | 1772.4 | 1739.4 | 1679.8 | 1608.4 | 1546.9 | 1478.4 | 1424.0 | 1388.4 | 1373.2 | 1378.5 |
| 7.5° | 1797.3 | 1779.6 | 1707.3 | 1589.8 | 1453.4 | 1332.2 | 1209.3 | 1113.9 | 1053.3 | 1023.0 | 1027.5 |
| 10° | 1813.4 | 1777.8 | 1653.9 | 1459.6 | 1251.1 | 1067.5 | 901.8 | 786.9 | 722.7 | 692.4 | 693.3 |
| 12.5° | 1828.6 | 1776.8 | 1584.4 | 1305.4 | 1023.0 | 798.5 | 644.3 | 587.2 | 569.4 | 563.1 | 561.4 |
| 15° | 1857.1 | 1779.6 | 1497.1 | 1129.0 | 795.8 | 603.3 | 547.1 | 546.2 | 549.8 | 548.1 | 547.1 |
| 17.5° | 1896.2 | 1782.3 | 1398.2 | 941.9 | 614.0 | 532.0 | 529.3 | 537.3 | 542.7 | 540.0 | 539.2 |
| 20° | 1947.1 | 1792.9 | 1293.0 | 756.6 | 527.6 | 514.1 | 520.4 | 527.6 | 532.0 | 527.6 | 526.6 |
| 22.5° | 2018.3 | 1811.7 | 1178.0 | 607.7 | 499.9 | 503.5 | 508.8 | 516.8 | 521.3 | 515.1 | 514.1 |
| 25° | 2105.7 | 1841.0 | 1064.9 | 528.4 | 486.6 | 491.0 | 499.1 | 507.9 | 513.3 | 507.1 | 506.1 |
| 27.5° | 2218.9 | 1888.3 | 960.6 | 510.7 | 473.1 | 475.8 | 487.5 | 500.8 | 507.9 | 499.9 | 499.9 |
| 30° | 2382.8 | 1965.8 | 870.6 | 518.6 | 465.1 | 458.9 | 475.0 | 493.6 | 501.7 | 494.6 | 493.6 |
| 32.5° | 2600.3 | 2075.4 | 815.4 | 531.2 | 461.6 | 439.3 | 454.5 | 478.6 | 491.9 | 487.5 | 487.5 |
| 35° | 2885.5 | 2242.1 | 794.0 | 545.4 | 458.9 | 418.8 | 429.5 | 455.4 | 478.6 | 483.0 | 483.0 |
| 37.5° | 3231.2 | 2473.7 | 800.2 | 551.6 | 450.9 | 401.9 | 407.2 | 429.5 | 459.8 | 474.1 | 477.6 |
| 40° | 3624.2 | 2743.7 | 835.9 | 545.4 | 442.0 | 387.7 | 388.6 | 405.5 | 432.1 | 453.6 | 460.7 |
| 42.5° | 4029.6 | 3059.2 | 901.8 | 522.2 | 434.0 | 375.2 | 372.5 | 384.1 | 401.9 | 417.1 | 423.3 |
| 45° | 4415.5 | 3383.5 | 966.9 | 490.2 | 424.1 | 362.6 | 356.5 | 360.9 | 364.5 | 370.7 | 374.2 |
| 47.5° | 4752.3 | 3611.7 | 948.1 | 460.7 | 410.8 | 348.4 | 337.7 | 336.0 | 325.2 | 324.4 | 323.5 |
| 50° | 4984.9 | 3661.6 | 842.1 | 431.3 | 391.2 | 332.4 | 315.5 | 304.7 | 286.1 | 277.2 | 278.0 |
| 52.5° | 5058.9 | 3464.7 | 688.0 | 401.9 | 359.2 | 311.0 | 286.9 | 270.0 | 246.8 | 238.8 | 237.9 |
| 55° | 4960.8 | 3078.8 | 549.8 | 366.2 | 314.6 | 282.5 | 255.7 | 233.5 | 214.7 | 205.0 | 205.0 |
| 57.5° | 4721.2 | 2587.8 | 434.9 | 324.4 | 267.3 | 250.4 | 223.7 | 201.4 | 185.3 | 175.6 | 173.7 |
| 60° | 4323.7 | 2054.9 | 344.0 | 274.5 | 228.2 | 215.7 | 188.0 | 173.7 | 159.5 | 147.9 | 145.2 |
| 62.5° | 3720.4 | 1466.8 | 270.0 | 217.4 | 190.6 | 176.4 | 160.4 | 149.8 | 132.7 | 116.7 | 114.1 |
| 65° | 2903.2 | 897.4 | 208.5 | 159.5 | 153.2 | 146.2 | 136.3 | 126.6 | 106.1 | 90.0 | 87.3 |
| 67.5° | 1831.3 | 425.1 | 148.8 | 120.3 | 121.2 | 117.7 | 113.2 | 105.2 | 90.0 | 75.7 | 74.0 |
| 70° | 806.5 | 205.8 | 98.0 | 91.7 | 90.0 | 90.0 | 93.6 | 90.9 | 76.7 | 63.2 | 60.6 |
| 72.5° | 274.5 | 110.5 | 73.1 | 69.5 | 65.1 | 64.2 | 78.4 | 75.7 | 61.5 | 49.0 | 46.3 |
| 75° | 143.5 | 74.0 | 53.5 | 49.9 | 39.3 | 47.3 | 62.4 | 58.8 | 43.7 | 32.1 | 29.4 |
| 77.5° | 93.6 | 52.6 | 36.5 | 32.1 | 22.2 | 31.2 | 46.3 | 41.0 | 25.8 | 16.0 | 14.2 |
| 80° | 58.8 | 34.7 | 21.4 | 15.2 | 10.7 | 16.9 | 24.9 | 17.8 | 9.8 | 3.6 | 2.7 |
| 82.5° | 31.2 | 17.8 | 8.0 | 5.3 | 4.4 | 5.3 | 6.3 | 4.4 | 1.7 | 0.0 | 0.0 |
| 85° | 12.5 | 6.3 | 2.7 | 1.7 | 0.9 | 0.0 | 1.7 | 0.9 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.4 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)