

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: LUMARK

Report Number: P959399

Luminaire Tested: **NAV-SB1A-760-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P959399  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1A-760-U-T3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 5700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

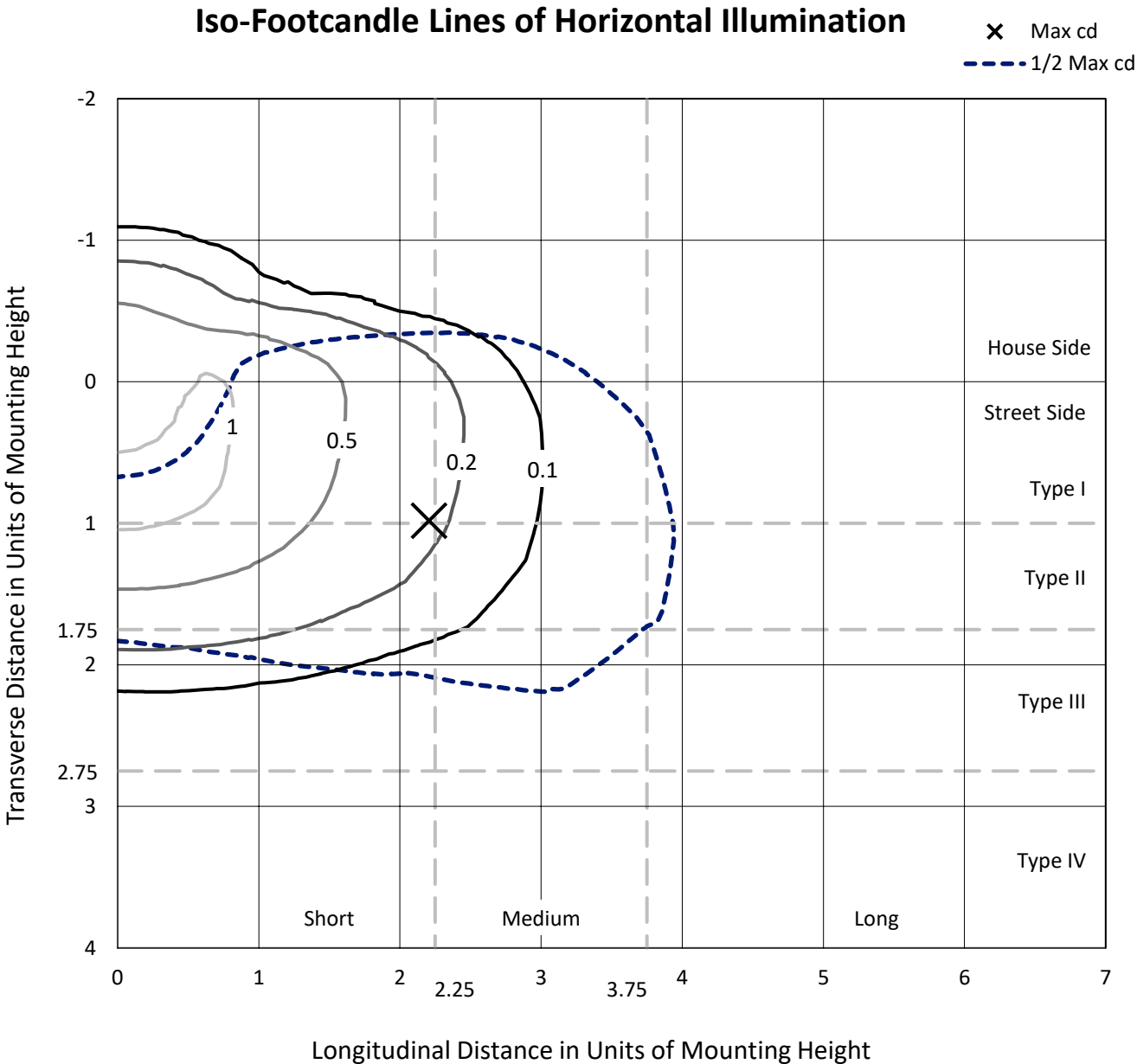
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4869.8 lumens  
Efficiency: N/A  
Efficacy: 157.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 30.9  
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



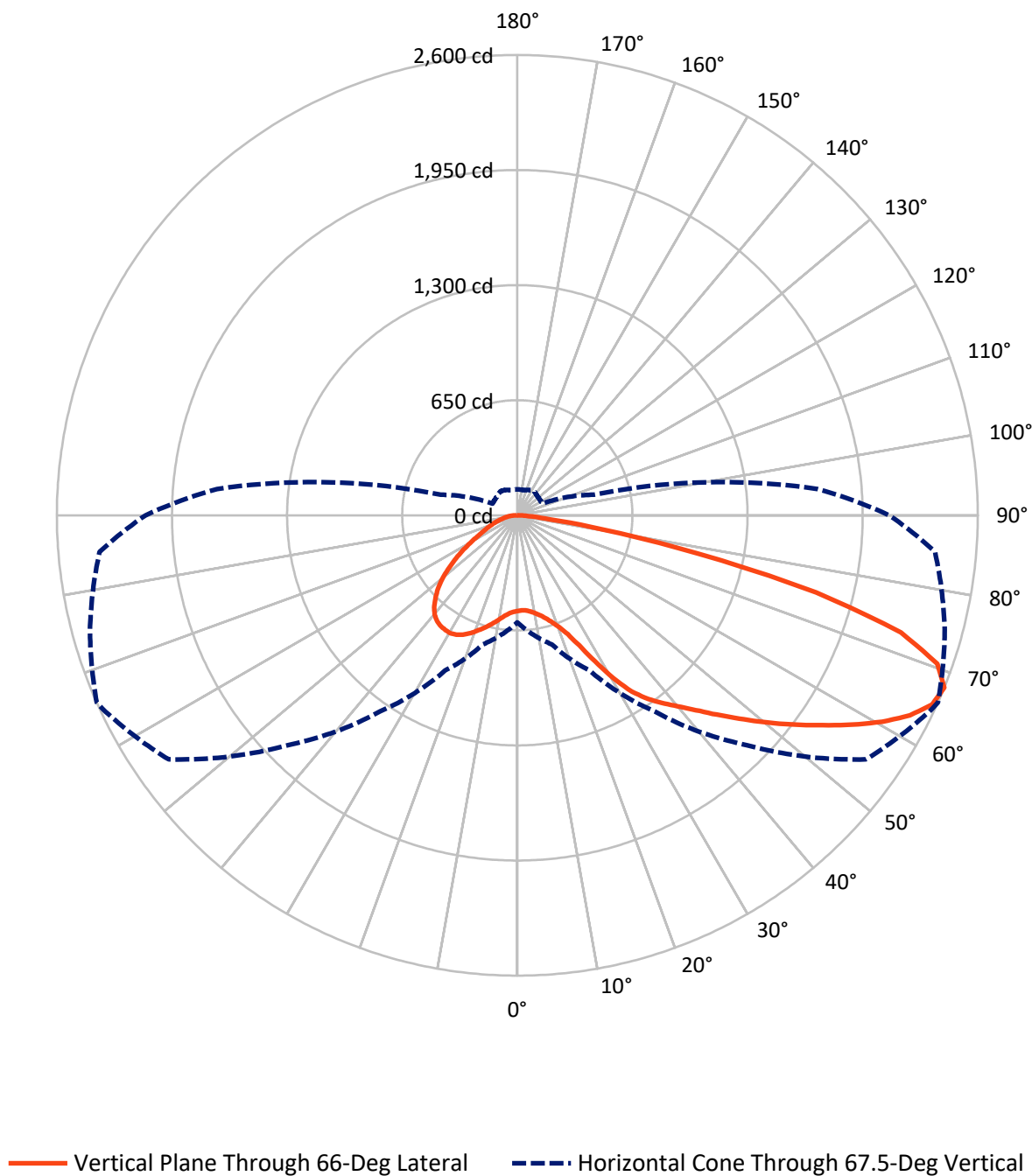
REPORT NUMBER: P959399  
CATALOG NUMBER: NAV-SB1A-760-U-T3



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
Type III - Short - N/A

REPORT NUMBER: P959399  
CATALOG NUMBER: NAV-SB1A-760-U-T3

## Luminous Intensity Polar Plot



REPORT NUMBER: P959399

CATALOG NUMBER: NAV-SB1A-760-U-T3

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1210.9   | 0.0    | 1210.9 |
|                    | % Fixture | 24.9     | 0.0    | 24.9   |
| <b>Street Side</b> | Lumens    | 3658.9   | 0.0    | 3658.9 |
|                    | % Fixture | 75.1     | 0.0    | 75.1   |
| <b>Total</b>       | Lumens    | 4869.8   | 0.0    | 4869.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 53.5   | 1.1       |
| 10°-20°   | 176.9  | 3.6       |
| 20°-30°   | 341.0  | 7.0       |
| 30°-40°   | 597.9  | 12.3      |
| 40°-50°   | 888.9  | 18.3      |
| 50°-60°   | 1126.8 | 23.1      |
| 60°-70°   | 1102.5 | 22.6      |
| 70°-80°   | 525.9  | 10.8      |
| 80°-90°   | 56.2   | 1.2       |
| 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°    | 4869.8 | 100.0     |
| 0°-180°   | 4869.8 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P959399

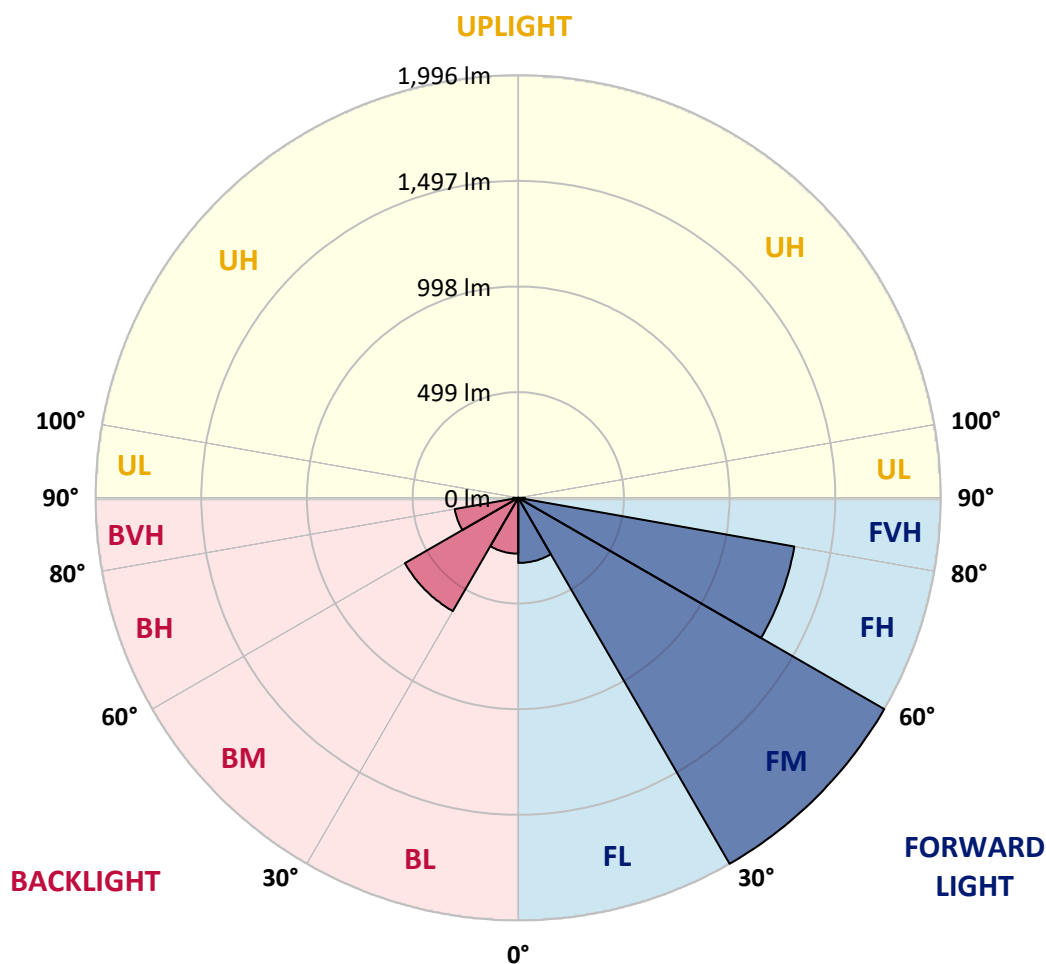
CATALOG NUMBER: NAV-SB1A-760-U-T3

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 307.7  | 6.3       |                         |      |         |
| FM   | (30°-60°)   | 1995.6 | 41.0      |                         |      |         |
| FH   | (60°-80°)   | 1323.7 | 27.2      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 31.9   | 0.7       |                         |      | G1/100  |
| BL   | (0°-30°)    | 263.8  | 5.4       | B1/500                  |      |         |
| BM   | (30°-60°)   | 618.0  | 12.7      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 304.7  | 6.3       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 24.3   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type III Short



REPORT NUMBER: P959399

CATALOG NUMBER: NAV-SB1A-760-U-T3

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 66°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 540.1  | 540.1  | 540.1  | 540.1  | 540.1  | 540.1  | 540.1  | 540.1  | 540.1  | 540.1  | 540.1  |
| 2.5°  | 534.5  | 537.6  | 536.8  | 535.6  | 535.3  | 535.8  | 536.6  | 537.3  | 537.1  | 538.3  | 540.4  |
| 5°    | 533.0  | 536.1  | 535.8  | 535.8  | 536.8  | 538.8  | 540.1  | 541.4  | 540.1  | 541.6  | 544.5  |
| 7.5°  | 534.0  | 536.3  | 537.3  | 538.3  | 540.9  | 544.7  | 547.8  | 550.6  | 549.1  | 550.8  | 554.4  |
| 10°   | 547.0  | 548.8  | 549.8  | 549.8  | 551.7  | 556.0  | 559.0  | 564.2  | 562.9  | 565.7  | 570.3  |
| 12.5° | 570.8  | 572.7  | 572.7  | 571.6  | 572.9  | 575.6  | 576.7  | 582.3  | 580.0  | 584.7  | 589.3  |
| 15°   | 600.0  | 603.6  | 600.8  | 599.0  | 599.5  | 602.3  | 602.1  | 606.4  | 604.1  | 607.9  | 612.0  |
| 17.5° | 632.2  | 636.8  | 632.2  | 632.0  | 631.0  | 634.1  | 634.3  | 638.2  | 634.1  | 636.8  | 639.7  |
| 20°   | 670.3  | 676.7  | 672.9  | 674.1  | 671.9  | 673.2  | 674.4  | 680.1  | 673.7  | 675.7  | 675.0  |
| 22.5° | 724.1  | 731.7  | 727.6  | 732.6  | 731.0  | 730.0  | 729.7  | 739.7  | 729.7  | 730.5  | 723.0  |
| 25°   | 802.4  | 811.6  | 804.4  | 811.1  | 811.1  | 814.4  | 818.3  | 831.1  | 814.4  | 809.5  | 790.4  |
| 27.5° | 918.0  | 927.2  | 913.2  | 917.3  | 915.9  | 924.1  | 920.0  | 951.8  | 933.9  | 926.0  | 887.3  |
| 30°   | 1057.2 | 1073.6 | 1046.9 | 1045.9 | 1044.7 | 1057.7 | 1063.6 | 1084.6 | 1066.4 | 1058.5 | 1011.9 |
| 32.5° | 1207.7 | 1224.8 | 1193.1 | 1183.9 | 1179.1 | 1186.9 | 1182.0 | 1198.9 | 1186.4 | 1174.1 | 1116.5 |
| 35°   | 1366.8 | 1383.6 | 1353.5 | 1335.6 | 1316.1 | 1299.5 | 1282.1 | 1286.5 | 1274.7 | 1256.0 | 1196.4 |
| 37.5° | 1517.2 | 1548.3 | 1516.3 | 1497.0 | 1461.2 | 1428.7 | 1380.2 | 1359.9 | 1348.9 | 1331.8 | 1271.6 |
| 40°   | 1670.5 | 1688.2 | 1663.9 | 1647.5 | 1608.6 | 1557.7 | 1479.9 | 1437.2 | 1422.3 | 1405.7 | 1354.7 |
| 42.5° | 1783.4 | 1800.2 | 1787.2 | 1775.9 | 1745.5 | 1686.3 | 1585.8 | 1532.4 | 1510.8 | 1492.2 | 1448.9 |
| 45°   | 1872.9 | 1885.5 | 1877.3 | 1881.4 | 1868.3 | 1811.0 | 1695.6 | 1634.5 | 1612.2 | 1589.4 | 1555.3 |
| 47.5° | 1909.0 | 1922.3 | 1935.3 | 1959.6 | 1981.9 | 1939.7 | 1813.5 | 1745.0 | 1721.4 | 1698.1 | 1664.6 |
| 50°   | 1904.9 | 1918.5 | 1956.3 | 2008.0 | 2077.1 | 2063.0 | 1937.9 | 1862.6 | 1840.9 | 1814.4 | 1783.4 |
| 52.5° | 1872.2 | 1887.4 | 1936.1 | 2022.1 | 2132.1 | 2155.4 | 2064.6 | 1984.2 | 1963.7 | 1932.0 | 1901.1 |
| 55°   | 1786.2 | 1795.4 | 1868.3 | 1990.0 | 2145.1 | 2219.8 | 2188.7 | 2113.7 | 2093.2 | 2049.0 | 2015.2 |
| 57.5° | 1626.8 | 1640.1 | 1746.3 | 1903.8 | 2112.4 | 2263.6 | 2297.6 | 2249.8 | 2230.1 | 2166.3 | 2131.1 |
| 60°   | 1418.7 | 1440.0 | 1561.5 | 1759.0 | 2029.0 | 2263.3 | 2396.7 | 2383.6 | 2367.2 | 2282.1 | 2245.2 |
| 62.5° | 1183.4 | 1208.0 | 1324.8 | 1554.3 | 1883.1 | 2199.1 | 2458.6 | 2495.7 | 2487.3 | 2388.8 | 2341.6 |
| 65°   | 908.9  | 925.7  | 1042.1 | 1289.6 | 1656.2 | 2061.2 | 2465.7 | 2572.1 | 2573.7 | 2469.8 | 2392.0 |
| 67.5° | 605.2  | 653.7  | 754.8  | 967.7  | 1352.2 | 1835.8 | 2402.8 | 2584.7 | 2599.5 | 2497.7 | 2366.7 |
| 70°   | 295.3  | 359.3  | 458.3  | 628.9  | 967.7  | 1490.1 | 2238.3 | 2481.8 | 2514.8 | 2416.3 | 2215.7 |
| 72.5° | 122.6  | 143.3  | 197.3  | 310.4  | 555.4  | 1005.5 | 1907.7 | 2202.9 | 2264.1 | 2141.0 | 1862.9 |
| 75°   | 82.6   | 89.6   | 112.9  | 159.2  | 253.1  | 495.9  | 1375.8 | 1642.7 | 1741.2 | 1617.0 | 1321.7 |
| 77.5° | 63.8   | 68.1   | 82.1   | 111.3  | 150.5  | 187.6  | 736.4  | 989.9  | 1040.9 | 963.6  | 687.8  |
| 80°   | 50.1   | 53.5   | 61.4   | 81.1   | 106.7  | 100.3  | 251.0  | 448.5  | 478.0  | 401.0  | 221.1  |
| 82.5° | 43.5   | 44.8   | 44.0   | 55.0   | 70.8   | 58.6   | 82.4   | 165.5  | 182.7  | 132.5  | 72.2   |
| 85°   | 31.5   | 35.1   | 36.6   | 34.0   | 37.6   | 29.7   | 33.7   | 58.6   | 64.5   | 57.6   | 40.7   |
| 87.5° | 12.8   | 19.0   | 23.3   | 22.0   | 13.8   | 8.4    | 10.5   | 17.1   | 19.7   | 21.5   | 13.3   |
| 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: P959399

CATALOG NUMBER: NAV-SB1A-760-U-T3

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 540.1  | 540.1  | 540.1  | 540.1 | 540.1 | 540.1 | 540.1 | 540.1 | 540.1 | 540.1 | 540.1 |
| 2.5°  | 540.6  | 542.4  | 543.7  | 545.2 | 546.2 | 547.8 | 550.8 | 552.7 | 552.9 | 554.2 | 553.9 |
| 5°    | 545.5  | 548.1  | 550.8  | 554.9 | 559.5 | 563.4 | 569.3 | 573.4 | 574.9 | 576.2 | 575.9 |
| 7.5°  | 556.0  | 559.5  | 564.7  | 571.8 | 578.5 | 583.6 | 590.8 | 595.6 | 600.5 | 602.3 | 602.6 |
| 10°   | 571.6  | 576.7  | 584.1  | 593.9 | 601.1 | 607.6 | 615.1 | 619.2 | 624.0 | 626.1 | 627.1 |
| 12.5° | 591.0  | 596.4  | 606.2  | 619.7 | 626.4 | 631.0 | 633.6 | 632.5 | 633.6 | 635.3 | 635.8 |
| 15°   | 613.3  | 619.2  | 630.2  | 644.7 | 649.3 | 645.2 | 639.7 | 634.6 | 633.8 | 634.3 | 636.1 |
| 17.5° | 639.7  | 644.0  | 656.8  | 669.1 | 665.7 | 648.8 | 636.6 | 628.4 | 624.3 | 623.0 | 624.8 |
| 20°   | 676.5  | 676.5  | 687.0  | 694.6 | 672.4 | 643.7 | 624.5 | 611.2 | 602.8 | 599.2 | 598.5 |
| 22.5° | 721.3  | 717.2  | 723.9  | 718.4 | 671.2 | 629.5 | 602.8 | 579.7 | 567.0 | 561.9 | 561.1 |
| 25°   | 778.1  | 773.3  | 771.4  | 738.2 | 661.9 | 606.6 | 563.4 | 535.6 | 524.3 | 521.4 | 521.9 |
| 27.5° | 863.8  | 851.5  | 828.2  | 748.9 | 645.0 | 570.8 | 517.3 | 491.5 | 485.1 | 485.3 | 486.2 |
| 30°   | 977.8  | 953.4  | 896.3  | 750.7 | 617.4 | 520.2 | 470.3 | 451.8 | 448.7 | 450.1 | 454.4 |
| 32.5° | 1083.5 | 1060.3 | 965.9  | 742.5 | 574.9 | 470.6 | 428.0 | 415.7 | 411.1 | 412.7 | 414.7 |
| 35°   | 1166.4 | 1160.1 | 1030.3 | 731.0 | 522.8 | 423.9 | 390.2 | 379.7 | 370.7 | 368.7 | 370.2 |
| 37.5° | 1244.8 | 1242.2 | 1078.7 | 714.8 | 471.1 | 390.9 | 359.8 | 345.9 | 332.9 | 325.7 | 326.0 |
| 40°   | 1330.8 | 1328.2 | 1110.5 | 690.0 | 425.3 | 362.3 | 332.4 | 314.2 | 298.1 | 285.1 | 286.3 |
| 42.5° | 1427.4 | 1412.3 | 1125.6 | 654.5 | 386.3 | 337.9 | 310.1 | 285.6 | 264.3 | 252.3 | 253.1 |
| 45°   | 1533.1 | 1499.1 | 1125.2 | 609.2 | 353.6 | 315.7 | 286.3 | 251.5 | 231.9 | 220.6 | 220.1 |
| 47.5° | 1645.2 | 1582.0 | 1111.5 | 559.0 | 321.8 | 291.2 | 249.5 | 222.8 | 209.8 | 202.8 | 201.4 |
| 50°   | 1760.8 | 1659.5 | 1087.9 | 501.5 | 289.4 | 263.3 | 226.4 | 208.3 | 198.3 | 191.9 | 189.6 |
| 52.5° | 1869.6 | 1729.9 | 1059.5 | 436.2 | 256.4 | 236.2 | 216.2 | 202.1 | 191.7 | 184.5 | 181.4 |
| 55°   | 1970.7 | 1790.5 | 1019.4 | 369.5 | 229.5 | 218.0 | 211.4 | 199.6 | 187.6 | 179.1 | 175.8 |
| 57.5° | 2060.5 | 1829.9 | 950.0  | 306.8 | 210.3 | 205.4 | 206.2 | 195.3 | 181.4 | 174.2 | 169.6 |
| 60°   | 2135.2 | 1858.8 | 847.4  | 248.7 | 194.7 | 193.2 | 198.3 | 187.1 | 170.9 | 162.8 | 159.2 |
| 62.5° | 2180.0 | 1858.3 | 721.5  | 203.7 | 181.4 | 181.9 | 187.8 | 176.8 | 160.4 | 152.7 | 150.5 |
| 65°   | 2176.1 | 1812.8 | 583.3  | 174.2 | 168.6 | 169.1 | 176.8 | 165.5 | 151.7 | 147.1 | 146.9 |
| 67.5° | 2099.1 | 1701.7 | 447.5  | 155.1 | 154.6 | 156.8 | 165.8 | 157.8 | 146.4 | 145.9 | 146.6 |
| 70°   | 1890.5 | 1471.2 | 322.4  | 139.7 | 139.9 | 143.3 | 155.1 | 153.0 | 143.5 | 144.5 | 144.3 |
| 72.5° | 1516.0 | 1121.7 | 216.5  | 123.6 | 123.8 | 129.3 | 144.8 | 149.1 | 140.7 | 154.3 | 156.3 |
| 75°   | 1009.6 | 699.6  | 139.2  | 106.4 | 106.7 | 113.6 | 135.8 | 141.8 | 133.0 | 153.8 | 155.1 |
| 77.5° | 485.1  | 314.5  | 100.9  | 89.6  | 89.6  | 95.9  | 117.5 | 126.9 | 113.4 | 119.5 | 109.5 |
| 80°   | 167.6  | 118.2  | 79.3   | 72.2  | 70.6  | 74.9  | 99.0  | 110.0 | 97.8  | 90.1  | 84.5  |
| 82.5° | 66.0   | 61.4   | 63.8   | 56.1  | 50.9  | 53.7  | 77.0  | 90.8  | 71.9  | 65.0  | 64.8  |
| 85°   | 37.8   | 39.9   | 45.0   | 37.1  | 29.4  | 33.0  | 56.6  | 65.3  | 54.2  | 47.9  | 48.9  |
| 87.5° | 10.2   | 14.0   | 20.7   | 19.2  | 13.3  | 14.0  | 26.9  | 36.1  | 31.3  | 24.1  | 24.8  |
| 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)