

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: P959907

Luminaire Tested: **NAV-SB1B-760-U-SL2**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P959907  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1B-760-U-SL2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 5700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

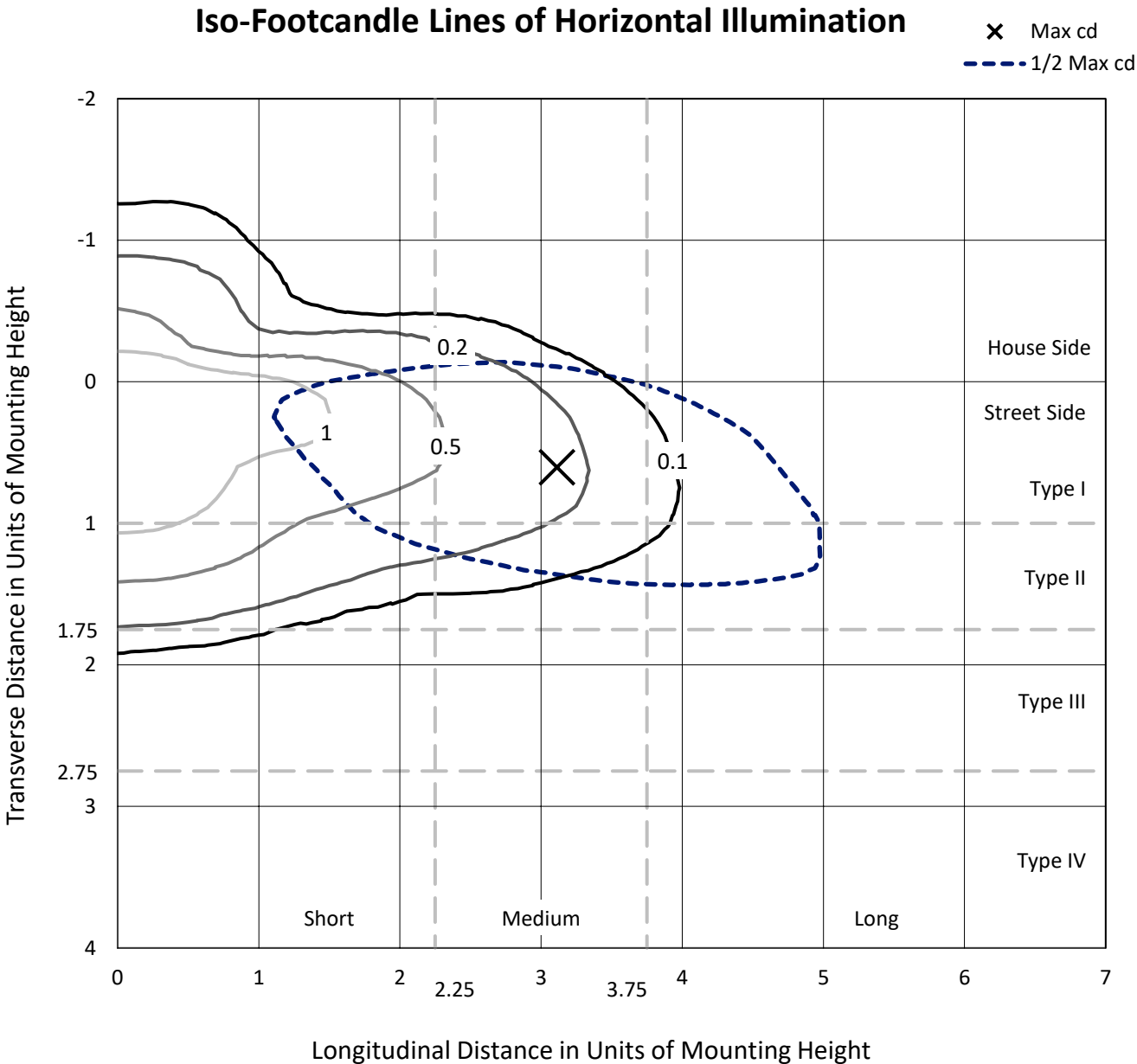
### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 6071.1 lumens  
Efficiency: N/A  
Efficacy: 152.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 39.8  
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



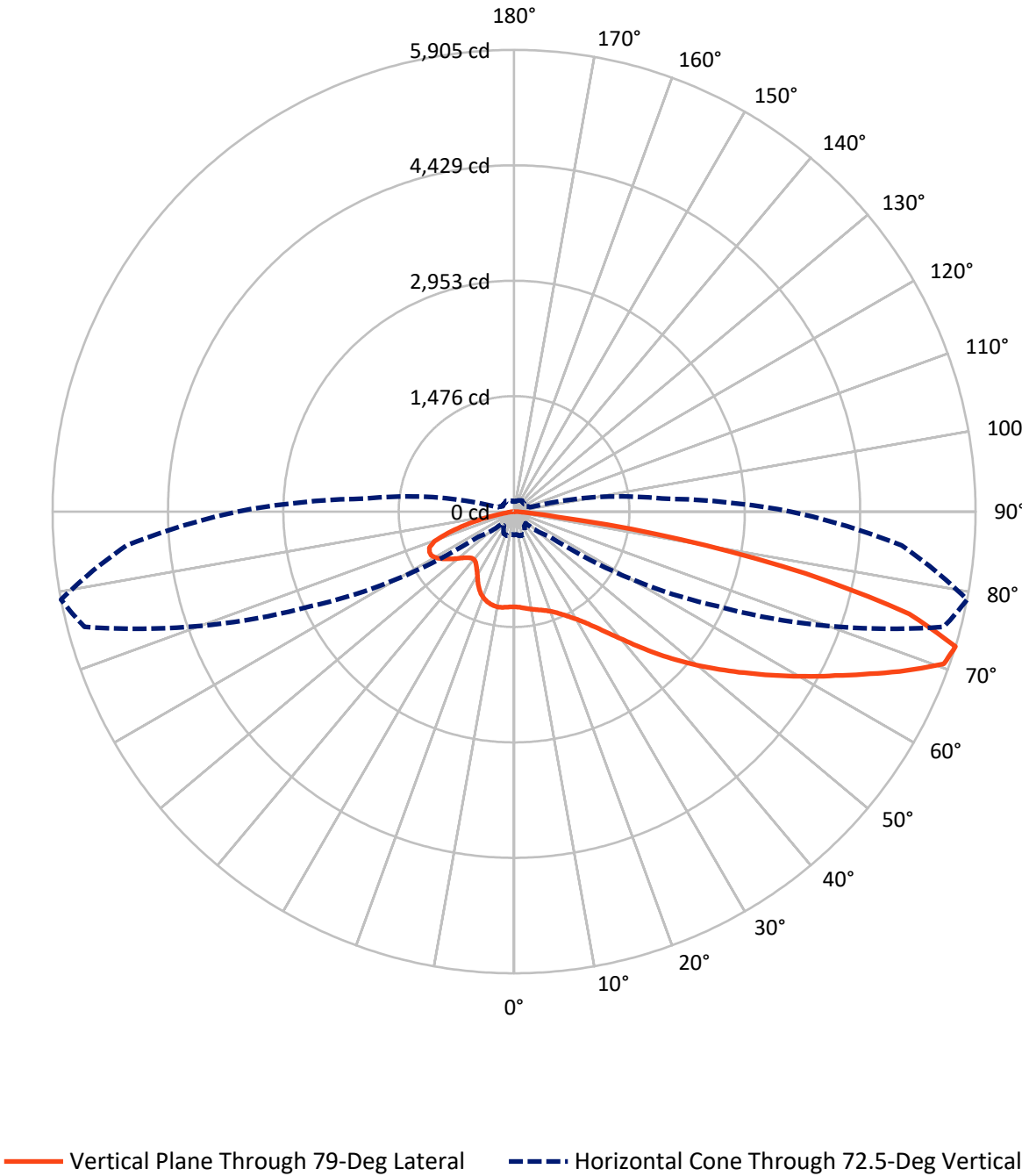
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CATALOG NUMBER: NAV-SB1B-760-U-SL2



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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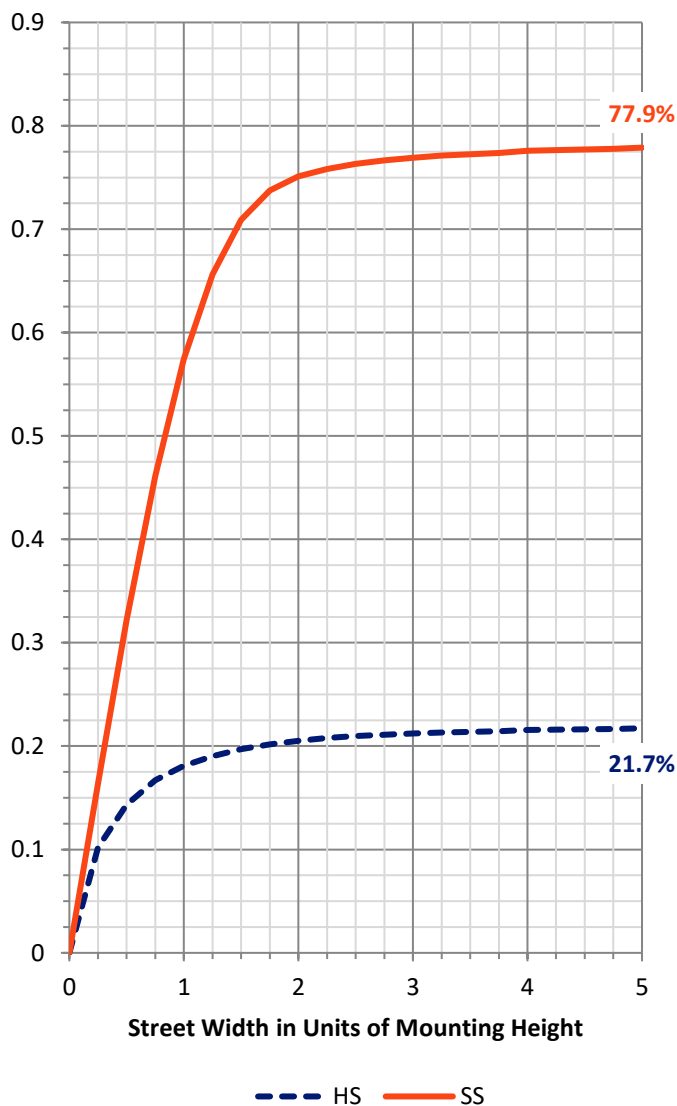
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1336.0   | 0.0    | 1336.0 |
|                    | % Fixture | 22.0     | 0.0    | 22.0   |
| <b>Street Side</b> | Lumens    | 4735.1   | 0.0    | 4735.1 |
|                    | % Fixture | 78.0     | 0.0    | 78.0   |
| <b>Total</b>       | Lumens    | 6071.1   | 0.0    | 6071.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 110.6  | 1.8       |
| 10°-20°   | 289.2  | 4.8       |
| 20°-30°   | 466.7  | 7.7       |
| 30°-40°   | 700.4  | 11.5      |
| 40°-50°   | 993.6  | 16.4      |
| 50°-60°   | 1254.8 | 20.7      |
| 60°-70°   | 1274.4 | 21.0      |
| 70°-80°   | 868.6  | 14.3      |
| 80°-90°   | 112.7  | 1.9       |
| 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°    | 6071.1 | 100.0     |
| 0°-180°   | 6071.1 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P959907

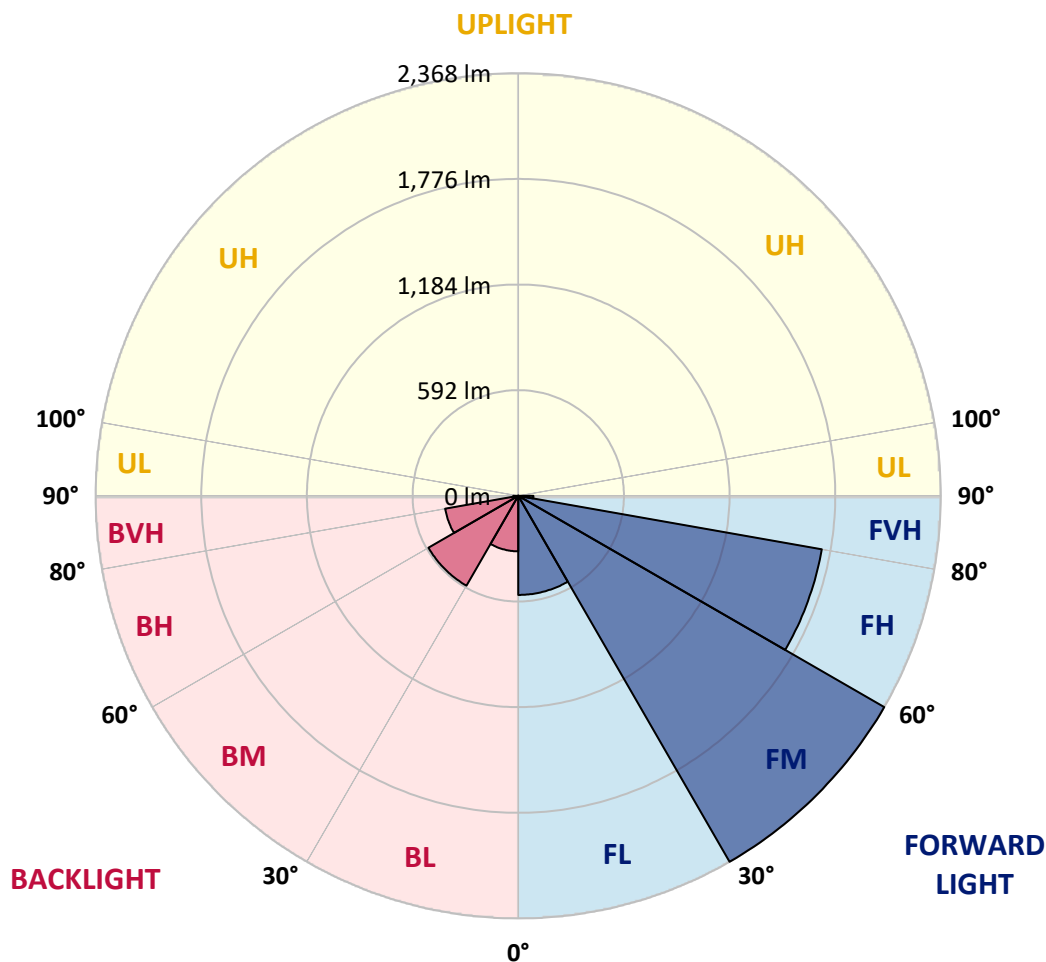
CATALOG NUMBER: NAV-SB1B-760-U-SL2

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 555.4  | 9.1       |                         |      |         |
| FM   | (30°-60°)   | 2367.8 | 39.0      |                         |      |         |
| FH   | (60°-80°)   | 1727.0 | 28.4      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 84.9   | 1.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 311.2  | 5.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 581.0  | 9.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 416.0  | 6.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 27.8   | 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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 79°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1218.7 | 1218.7 | 1218.7 | 1218.7 | 1218.7 | 1218.7 | 1218.7 | 1218.7 | 1218.7 | 1218.7 | 1218.7 |
| 2.5°  | 1219.3 | 1213.6 | 1217.1 | 1215.9 | 1217.4 | 1219.3 | 1220.0 | 1221.0 | 1224.2 | 1223.8 | 1223.5 |
| 5°    | 1216.8 | 1211.0 | 1215.9 | 1214.2 | 1218.4 | 1222.9 | 1226.7 | 1230.3 | 1235.4 | 1237.7 | 1234.4 |
| 7.5°  | 1211.3 | 1207.4 | 1212.3 | 1217.1 | 1224.8 | 1231.5 | 1237.0 | 1245.1 | 1252.4 | 1253.7 | 1255.9 |
| 10°   | 1179.6 | 1176.6 | 1187.9 | 1200.4 | 1221.6 | 1239.9 | 1251.8 | 1261.1 | 1269.2 | 1270.4 | 1273.7 |
| 12.5° | 1146.5 | 1142.9 | 1155.5 | 1172.5 | 1206.8 | 1239.9 | 1265.0 | 1277.1 | 1284.2 | 1288.4 | 1293.2 |
| 15°   | 1141.0 | 1138.1 | 1145.1 | 1160.0 | 1188.5 | 1231.2 | 1274.0 | 1296.4 | 1302.6 | 1307.4 | 1309.2 |
| 17.5° | 1167.4 | 1161.8 | 1164.8 | 1169.9 | 1186.6 | 1223.2 | 1281.0 | 1318.3 | 1327.6 | 1332.7 | 1332.7 |
| 20°   | 1228.4 | 1220.7 | 1216.2 | 1205.9 | 1202.9 | 1224.5 | 1280.3 | 1344.6 | 1356.8 | 1363.2 | 1364.8 |
| 22.5° | 1309.6 | 1304.4 | 1294.8 | 1268.8 | 1240.6 | 1240.2 | 1292.5 | 1378.3 | 1401.1 | 1407.2 | 1403.3 |
| 25°   | 1407.8 | 1400.1 | 1388.0 | 1352.6 | 1298.4 | 1271.4 | 1313.1 | 1421.4 | 1459.6 | 1461.1 | 1450.0 |
| 27.5° | 1520.9 | 1509.3 | 1492.6 | 1446.1 | 1372.9 | 1320.2 | 1344.6 | 1470.8 | 1526.6 | 1526.0 | 1503.0 |
| 30°   | 1640.0 | 1628.5 | 1610.8 | 1554.3 | 1462.2 | 1386.0 | 1388.3 | 1524.1 | 1606.3 | 1602.8 | 1563.3 |
| 32.5° | 1727.0 | 1718.4 | 1714.8 | 1671.2 | 1564.9 | 1463.7 | 1438.4 | 1583.2 | 1704.6 | 1701.4 | 1646.2 |
| 35°   | 1793.9 | 1782.6 | 1786.8 | 1764.6 | 1677.0 | 1550.7 | 1499.7 | 1653.5 | 1824.1 | 1823.7 | 1755.0 |
| 37.5° | 1860.1 | 1850.0 | 1853.6 | 1838.8 | 1780.7 | 1661.2 | 1574.5 | 1739.6 | 1972.1 | 1979.2 | 1886.7 |
| 40°   | 1920.4 | 1909.8 | 1923.9 | 1910.1 | 1861.3 | 1778.8 | 1659.7 | 1836.9 | 2143.6 | 2157.1 | 2046.0 |
| 42.5° | 1956.7 | 1948.3 | 1971.8 | 1972.1 | 1931.3 | 1878.0 | 1753.1 | 1944.1 | 2342.0 | 2372.3 | 2241.9 |
| 45°   | 1969.2 | 1966.4 | 2001.6 | 2009.0 | 1993.3 | 1935.5 | 1837.2 | 2061.1 | 2555.9 | 2609.9 | 2465.0 |
| 47.5° | 1955.7 | 1950.3 | 1999.1 | 2026.3 | 2038.9 | 1962.5 | 1906.9 | 2187.6 | 2774.3 | 2853.3 | 2708.5 |
| 50°   | 1887.6 | 1877.1 | 1949.7 | 2007.1 | 2051.7 | 1980.1 | 1977.2 | 2333.7 | 3022.5 | 3108.9 | 2953.1 |
| 52.5° | 1765.3 | 1757.3 | 1839.8 | 1939.7 | 2023.5 | 1988.8 | 2056.3 | 2493.3 | 3258.3 | 3370.0 | 3203.9 |
| 55°   | 1608.8 | 1598.3 | 1689.2 | 1819.6 | 1953.1 | 1985.9 | 2135.3 | 2671.9 | 3536.4 | 3649.7 | 3463.2 |
| 57.5° | 1361.0 | 1339.8 | 1454.8 | 1608.8 | 1838.5 | 1982.4 | 2217.5 | 2849.4 | 3818.9 | 3954.8 | 3739.6 |
| 60°   | 999.4  | 967.9  | 1108.8 | 1291.6 | 1614.4 | 1948.0 | 2319.3 | 3048.6 | 4158.1 | 4280.4 | 4041.5 |
| 62.5° | 581.9  | 563.5  | 655.8  | 826.3  | 1216.8 | 1745.7 | 2376.4 | 3280.1 | 4491.4 | 4619.9 | 4338.2 |
| 65°   | 451.8  | 446.7  | 454.7  | 467.9  | 677.3  | 1307.0 | 2200.1 | 3505.8 | 4915.3 | 5005.2 | 4647.5 |
| 67.5° | 413.3  | 409.5  | 413.0  | 388.3  | 343.6  | 728.1  | 1740.6 | 3563.0 | 5369.4 | 5424.0 | 4918.2 |
| 70°   | 367.4  | 362.8  | 374.4  | 353.2  | 270.4  | 331.1  | 1124.6 | 3355.5 | 5730.7 | 5833.1 | 5124.1 |
| 72.5° | 299.3  | 294.2  | 321.1  | 311.5  | 227.7  | 212.6  | 564.9  | 2862.6 | 5692.7 | 5905.3 | 4976.7 |
| 75°   | 229.9  | 227.0  | 259.1  | 267.2  | 185.6  | 167.3  | 271.0  | 2127.8 | 5009.7 | 5223.9 | 4289.1 |
| 77.5° | 178.6  | 176.3  | 192.7  | 221.9  | 149.6  | 129.8  | 166.7  | 1349.7 | 3775.3 | 3812.8 | 2955.7 |
| 80°   | 133.9  | 127.5  | 142.6  | 171.8  | 116.5  | 94.7   | 113.1  | 787.1  | 2386.4 | 2163.2 | 1286.5 |
| 82.5° | 83.8   | 80.6   | 93.2   | 114.6  | 82.2   | 65.2   | 73.5   | 434.8  | 956.3  | 563.2  | 248.3  |
| 85°   | 47.9   | 46.5   | 50.7   | 65.5   | 44.6   | 37.6   | 42.0   | 192.1  | 174.7  | 120.1  | 74.8   |
| 87.5° | 19.3   | 18.7   | 23.2   | 29.2   | 16.4   | 13.8   | 14.8   | 46.2   | 38.5   | 35.7   | 24.7   |
| 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: P959907

CATALOG NUMBER: NAV-SB1B-760-U-SL2

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1218.7 | 1218.7 | 1218.7 | 1218.7 | 1218.7 | 1218.7 | 1218.7 | 1218.7 | 1218.7 | 1218.7 | 1218.7 |
| 2.5°  | 1222.2 | 1222.2 | 1217.7 | 1210.7 | 1202.6 | 1197.5 | 1189.2 | 1186.9 | 1178.2 | 1175.7 | 1179.9 |
| 5°    | 1237.0 | 1234.4 | 1220.7 | 1200.7 | 1173.4 | 1148.4 | 1120.7 | 1103.4 | 1079.0 | 1070.3 | 1076.8 |
| 7.5°  | 1255.6 | 1248.6 | 1224.8 | 1181.1 | 1124.0 | 1067.7 | 1009.3 | 965.0  | 922.6  | 907.5  | 909.5  |
| 10°   | 1272.6 | 1262.7 | 1222.2 | 1145.8 | 1046.9 | 949.6  | 856.5  | 791.3  | 741.8  | 721.6  | 726.1  |
| 12.5° | 1289.7 | 1271.4 | 1205.2 | 1087.0 | 937.4  | 805.4  | 706.2  | 655.5  | 624.9  | 600.5  | 608.5  |
| 15°   | 1305.7 | 1280.0 | 1178.9 | 1008.4 | 817.3  | 683.4  | 610.2  | 569.7  | 545.3  | 529.2  | 532.1  |
| 17.5° | 1324.4 | 1287.4 | 1139.4 | 908.5  | 702.9  | 598.9  | 539.2  | 514.8  | 509.9  | 508.0  | 509.3  |
| 20°   | 1350.3 | 1294.2 | 1087.3 | 796.7  | 618.8  | 531.5  | 500.6  | 498.4  | 498.0  | 497.1  | 500.3  |
| 22.5° | 1378.3 | 1302.2 | 1018.6 | 695.3  | 547.2  | 489.4  | 483.9  | 479.5  | 476.5  | 476.2  | 479.8  |
| 25°   | 1411.4 | 1304.8 | 932.5  | 612.1  | 486.2  | 469.4  | 463.1  | 456.3  | 454.4  | 454.4  | 456.3  |
| 27.5° | 1443.5 | 1296.1 | 832.4  | 539.9  | 451.8  | 451.2  | 442.8  | 440.6  | 440.2  | 441.3  | 443.8  |
| 30°   | 1475.6 | 1279.7 | 732.9  | 473.0  | 431.9  | 431.9  | 429.1  | 430.6  | 431.9  | 435.1  | 437.4  |
| 32.5° | 1518.9 | 1262.4 | 649.6  | 423.5  | 414.6  | 411.3  | 414.3  | 417.5  | 418.7  | 422.9  | 426.5  |
| 35°   | 1582.6 | 1250.2 | 583.5  | 396.6  | 396.6  | 392.5  | 394.0  | 393.4  | 390.5  | 388.6  | 393.1  |
| 37.5° | 1666.6 | 1249.6 | 528.9  | 384.1  | 381.5  | 380.9  | 381.2  | 377.0  | 365.8  | 352.3  | 352.6  |
| 40°   | 1767.8 | 1266.9 | 486.9  | 375.5  | 373.5  | 377.3  | 375.5  | 364.2  | 333.3  | 309.9  | 309.2  |
| 42.5° | 1903.7 | 1316.3 | 459.9  | 364.8  | 370.6  | 375.5  | 367.7  | 328.8  | 308.0  | 292.2  | 291.6  |
| 45°   | 2063.6 | 1396.7 | 446.1  | 353.5  | 365.1  | 370.9  | 333.6  | 316.6  | 299.9  | 281.0  | 279.7  |
| 47.5° | 2244.8 | 1497.7 | 442.8  | 343.0  | 352.9  | 356.5  | 319.2  | 311.5  | 292.5  | 272.0  | 270.4  |
| 50°   | 2442.0 | 1617.6 | 451.5  | 330.5  | 335.3  | 323.1  | 314.4  | 307.3  | 287.7  | 267.5  | 265.3  |
| 52.5° | 2645.8 | 1749.6 | 468.8  | 313.4  | 317.6  | 304.1  | 312.4  | 306.4  | 284.8  | 257.6  | 255.6  |
| 55°   | 2846.2 | 1882.5 | 485.5  | 293.6  | 299.6  | 287.1  | 307.0  | 302.5  | 271.7  | 240.9  | 239.2  |
| 57.5° | 3049.8 | 2014.8 | 501.9  | 275.8  | 282.3  | 270.7  | 298.4  | 292.2  | 256.9  | 225.4  | 224.8  |
| 60°   | 3261.4 | 2143.3 | 509.6  | 258.8  | 263.3  | 255.6  | 285.2  | 274.6  | 240.3  | 209.7  | 208.7  |
| 62.5° | 3459.6 | 2250.2 | 497.1  | 241.8  | 244.7  | 241.5  | 267.8  | 253.7  | 223.6  | 192.1  | 191.7  |
| 65°   | 3658.4 | 2313.8 | 458.6  | 225.1  | 225.8  | 224.2  | 243.4  | 231.2  | 203.9  | 176.6  | 174.7  |
| 67.5° | 3838.5 | 2349.4 | 397.3  | 207.2  | 205.5  | 204.9  | 220.6  | 206.8  | 185.0  | 161.2  | 159.3  |
| 70°   | 3876.8 | 2258.9 | 303.5  | 185.9  | 185.9  | 184.3  | 195.6  | 181.4  | 164.1  | 144.8  | 144.2  |
| 72.5° | 3540.9 | 1900.1 | 215.5  | 161.8  | 164.4  | 161.2  | 170.6  | 158.7  | 142.9  | 130.1  | 126.2  |
| 75°   | 2855.2 | 1393.4 | 156.7  | 137.1  | 141.7  | 136.1  | 144.8  | 136.5  | 123.0  | 122.7  | 110.5  |
| 77.5° | 1961.8 | 861.6  | 113.7  | 113.1  | 116.2  | 109.2  | 119.1  | 114.6  | 102.4  | 97.0   | 90.9   |
| 80°   | 837.2  | 343.6  | 82.8   | 87.3   | 87.3   | 81.0   | 92.5   | 93.8   | 83.1   | 80.6   | 80.6   |
| 82.5° | 166.7  | 97.6   | 58.1   | 60.1   | 56.5   | 54.6   | 65.5   | 72.6   | 100.2  | 111.4  | 111.7  |
| 85°   | 50.1   | 36.0   | 35.1   | 32.8   | 28.9   | 29.2   | 38.5   | 72.9   | 89.9   | 51.4   | 44.3   |
| 87.5° | 13.8   | 9.0    | 9.3    | 7.4    | 6.1    | 8.0    | 13.1   | 55.2   | 30.2   | 12.8   | 11.0   |
| 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)