

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: P961511

Luminaire Tested: **NAV-SB2A-760-U-T4W**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P961511  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2A-760-U-T4W  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 5700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 9708.8 lumens  
Efficiency: N/A  
Efficacy: 169.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 57.3  
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

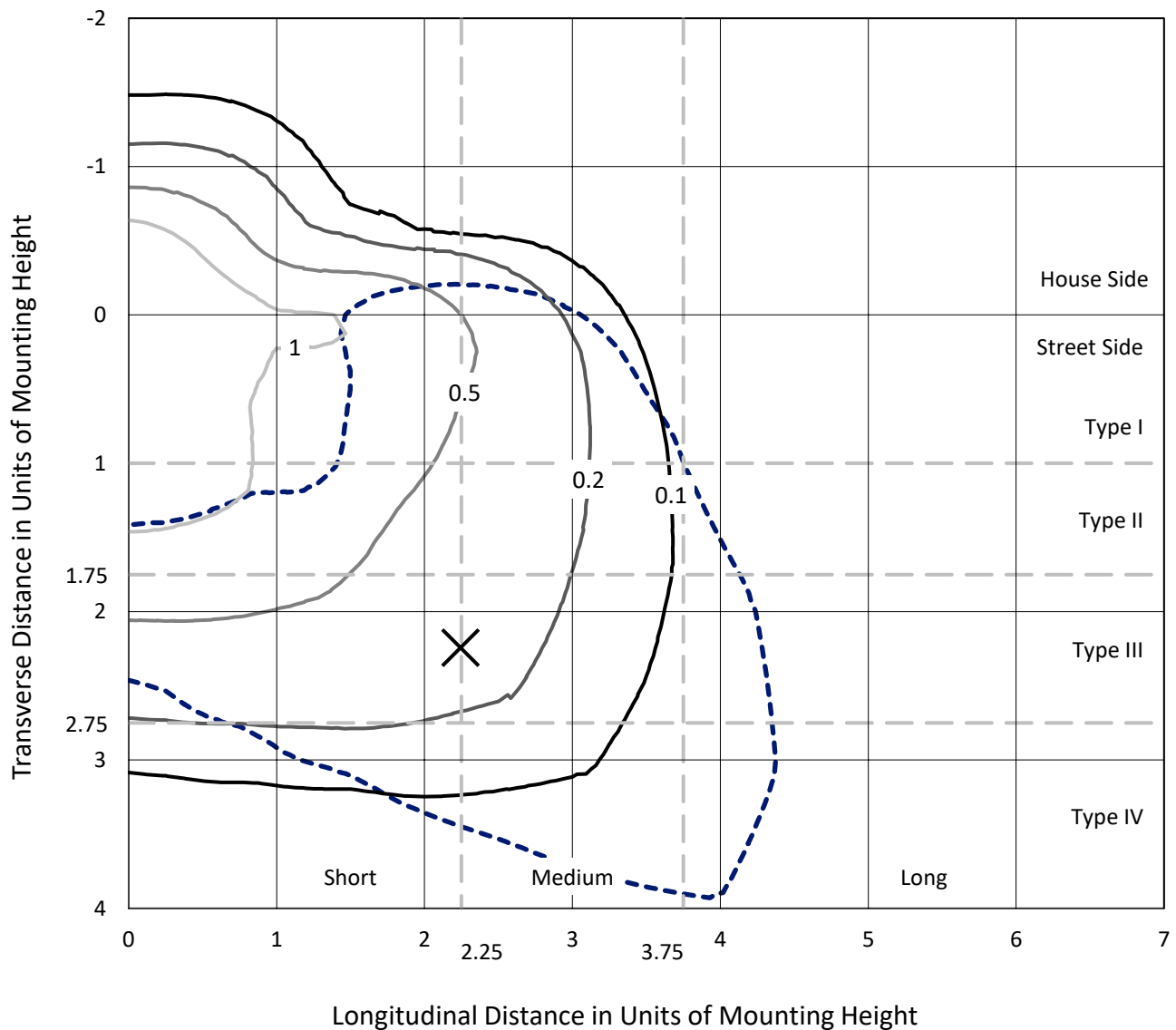


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## Iso-Footcandle Lines of Horizontal Illumination

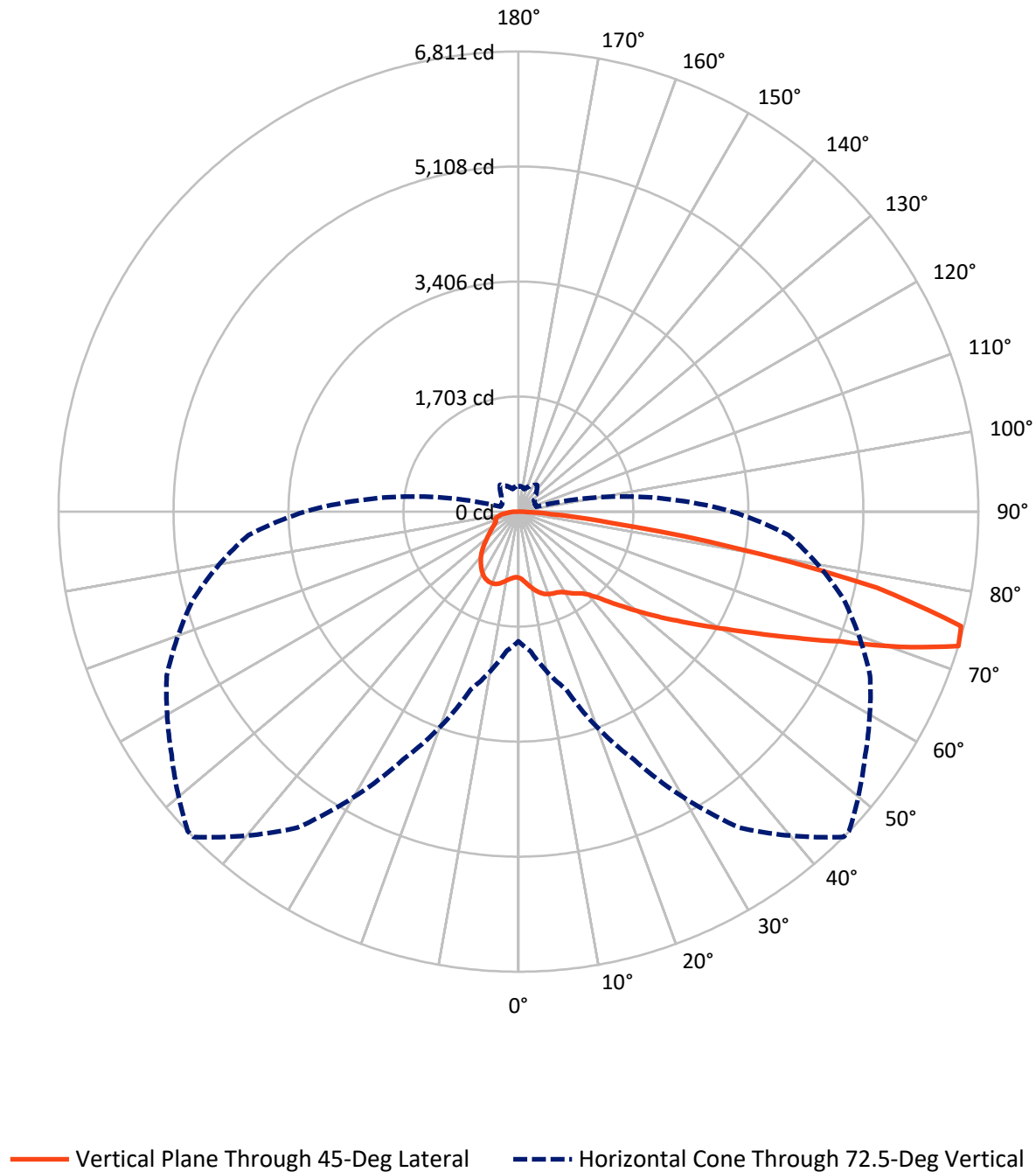
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2194.8   | 0.0    | 2194.8 |
|                    | % Fixture | 22.6     | 0.0    | 22.6   |
| <b>Street Side</b> | Lumens    | 7514.0   | 0.0    | 7514.0 |
|                    | % Fixture | 77.4     | 0.0    | 77.4   |
| <b>Total</b>       | Lumens    | 9708.8   | 0.0    | 9708.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 99.7   | 1.0       |
| 10°-20°   | 332.4  | 3.4       |
| 20°-30°   | 578.2  | 6.0       |
| 30°-40°   | 828.8  | 8.5       |
| 40°-50°   | 1167.1 | 12.0      |
| 50°-60°   | 1787.6 | 18.4      |
| 60°-70°   | 2589.6 | 26.7      |
| 70°-80°   | 2067.9 | 21.3      |
| 80°-90°   | 257.6  | 2.7       |
| 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°    | 9708.8 | 100.0     |
| 0°-180°   | 9708.8 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P961511

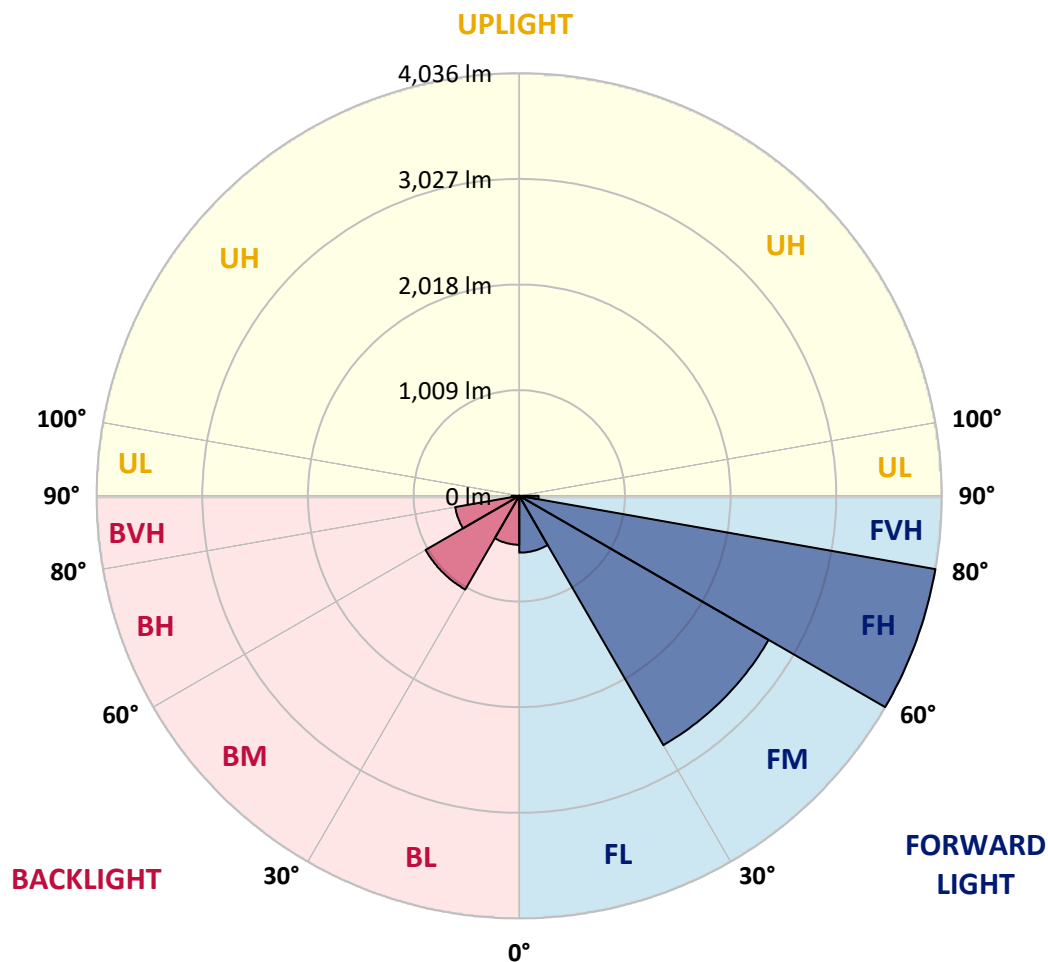
CATALOG NUMBER: NAV-SB2A-760-U-T4W

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 542.9  | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 2750.0 | 28.3      |                         |      |         |
| FH   | (60°-80°)   | 4036.2 | 41.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 184.8  | 1.9       |                         |      | G2/225  |
| BL   | (0°-30°)    | 467.3  | 4.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1033.5 | 10.6      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 621.3  | 6.4       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 72.8   | 0.7       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type IV Short



REPORT NUMBER: P961511

CATALOG NUMBER: NAV-SB2A-760-U-T4W

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 46°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 979.4  | 979.4  | 979.4  | 979.4  | 979.4  | 979.4  | 979.4  | 979.4  | 979.4  | 979.4  | 979.4  |
| 2.5°  | 1017.8 | 1024.5 | 1018.3 | 1012.7 | 1010.1 | 1003.5 | 1003.0 | 998.9  | 996.3  | 989.1  | 987.1  |
| 5°    | 1088.9 | 1097.6 | 1087.3 | 1076.0 | 1065.9 | 1049.5 | 1047.4 | 1035.7 | 1022.4 | 1007.1 | 998.4  |
| 7.5°  | 1169.2 | 1176.8 | 1165.1 | 1148.2 | 1130.3 | 1103.2 | 1102.7 | 1081.2 | 1060.3 | 1034.1 | 1019.4 |
| 10°   | 1239.2 | 1249.5 | 1233.6 | 1210.6 | 1188.1 | 1157.4 | 1153.8 | 1129.2 | 1102.7 | 1069.0 | 1046.4 |
| 12.5° | 1301.1 | 1308.3 | 1292.9 | 1264.8 | 1238.7 | 1208.1 | 1203.5 | 1176.3 | 1146.7 | 1108.3 | 1079.6 |
| 15°   | 1350.2 | 1359.5 | 1339.0 | 1308.8 | 1281.1 | 1251.0 | 1246.9 | 1222.4 | 1192.7 | 1152.3 | 1115.5 |
| 17.5° | 1382.4 | 1390.1 | 1369.2 | 1335.4 | 1308.8 | 1283.7 | 1280.6 | 1260.2 | 1234.1 | 1193.2 | 1153.8 |
| 20°   | 1394.7 | 1402.9 | 1380.9 | 1346.6 | 1322.1 | 1302.7 | 1301.1 | 1286.3 | 1268.4 | 1231.0 | 1191.2 |
| 22.5° | 1407.0 | 1414.7 | 1386.0 | 1350.2 | 1328.7 | 1316.5 | 1316.0 | 1306.3 | 1299.1 | 1268.4 | 1229.5 |
| 25°   | 1456.6 | 1458.7 | 1420.3 | 1368.7 | 1337.9 | 1327.2 | 1326.7 | 1326.1 | 1329.2 | 1305.2 | 1271.0 |
| 27.5° | 1499.6 | 1499.1 | 1466.4 | 1417.8 | 1370.2 | 1347.7 | 1347.2 | 1352.3 | 1362.0 | 1342.0 | 1313.9 |
| 30°   | 1562.5 | 1556.9 | 1518.0 | 1467.4 | 1423.9 | 1389.1 | 1386.0 | 1381.4 | 1389.1 | 1373.3 | 1356.9 |
| 32.5° | 1696.0 | 1678.0 | 1615.2 | 1525.1 | 1468.4 | 1441.8 | 1437.7 | 1409.1 | 1412.1 | 1402.4 | 1394.2 |
| 35°   | 1887.2 | 1863.8 | 1779.8 | 1634.6 | 1523.7 | 1485.7 | 1483.7 | 1447.4 | 1441.3 | 1432.5 | 1435.6 |
| 37.5° | 2114.9 | 2085.7 | 1988.0 | 1793.1 | 1618.8 | 1536.9 | 1533.8 | 1501.1 | 1476.0 | 1466.9 | 1484.2 |
| 40°   | 2343.5 | 2306.7 | 2225.8 | 1986.4 | 1758.9 | 1622.4 | 1612.6 | 1563.0 | 1534.3 | 1519.0 | 1555.8 |
| 42.5° | 2565.5 | 2534.7 | 2465.7 | 2203.3 | 1931.7 | 1747.1 | 1725.6 | 1640.7 | 1619.3 | 1604.9 | 1671.5 |
| 45°   | 2761.9 | 2734.2 | 2683.6 | 2435.0 | 2134.3 | 1917.0 | 1895.9 | 1757.4 | 1750.7 | 1750.7 | 1846.8 |
| 47.5° | 2921.5 | 2915.3 | 2861.6 | 2671.4 | 2373.2 | 2110.3 | 2074.0 | 1919.5 | 1937.4 | 1965.0 | 2095.9 |
| 50°   | 3098.4 | 3081.5 | 3024.2 | 2904.0 | 2653.9 | 2331.7 | 2302.0 | 2118.5 | 2185.4 | 2261.1 | 2456.0 |
| 52.5° | 3261.0 | 3270.3 | 3206.3 | 3146.4 | 2971.1 | 2578.7 | 2526.5 | 2353.2 | 2497.9 | 2623.3 | 2877.9 |
| 55°   | 3428.2 | 3428.7 | 3410.9 | 3402.7 | 3303.5 | 2851.9 | 2794.6 | 2635.5 | 2865.7 | 3021.2 | 3370.0 |
| 57.5° | 3585.2 | 3586.3 | 3612.9 | 3685.0 | 3689.1 | 3166.9 | 3102.0 | 2982.2 | 3274.3 | 3432.8 | 3877.3 |
| 60°   | 3725.4 | 3732.5 | 3805.2 | 3973.9 | 4028.1 | 3527.9 | 3466.7 | 3391.9 | 3696.8 | 3856.4 | 4410.8 |
| 62.5° | 3772.5 | 3798.5 | 3960.2 | 4200.0 | 4363.2 | 3971.0 | 3910.6 | 3866.1 | 4140.7 | 4289.0 | 4856.8 |
| 65°   | 3692.7 | 3752.5 | 4065.0 | 4386.7 | 4707.9 | 4497.2 | 4437.3 | 4388.7 | 4602.0 | 4741.6 | 5223.0 |
| 67.5° | 3496.8 | 3574.0 | 4058.9 | 4582.6 | 5126.2 | 5130.3 | 5074.6 | 4960.6 | 5096.6 | 5150.3 | 5342.1 |
| 70°   | 2980.7 | 3096.3 | 3701.4 | 4655.8 | 5606.5 | 5996.2 | 5942.5 | 5649.0 | 5590.1 | 5330.3 | 5006.6 |
| 72.5° | 1920.5 | 2075.9 | 2725.5 | 4053.8 | 5713.5 | 6811.0 | 6807.9 | 6270.4 | 5746.2 | 4980.5 | 4015.4 |
| 75°   | 700.7  | 795.8  | 1266.4 | 2544.5 | 4795.9 | 6769.6 | 6789.5 | 6164.0 | 5245.4 | 3847.1 | 2501.5 |
| 77.5° | 255.2  | 279.2  | 413.3  | 977.8  | 2949.5 | 5431.6 | 5473.1 | 4927.8 | 3733.6 | 1930.7 | 991.2  |
| 80°   | 134.0  | 147.3  | 211.8  | 379.5  | 1263.8 | 3225.7 | 3290.7 | 2928.5 | 1754.8 | 581.5  | 297.1  |
| 82.5° | 74.2   | 80.3   | 118.7  | 206.1  | 569.3  | 1379.3 | 1418.3 | 1156.9 | 617.4  | 246.5  | 122.8  |
| 85°   | 39.9   | 42.4   | 55.8   | 112.5  | 278.2  | 478.2  | 488.9  | 345.7  | 246.0  | 144.7  | 59.3   |
| 87.5° | 11.8   | 14.3   | 18.4   | 35.8   | 109.0  | 107.4  | 110.0  | 68.6   | 97.2   | 73.2   | 19.5   |
| 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: P961511

CATALOG NUMBER: NAV-SB2A-760-U-T4W

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 979.4  | 979.4  | 979.4  | 979.4  | 979.4  | 979.4  | 979.4  | 979.4  | 979.4  | 979.4  | 979.4  |
| 2.5°  | 984.0  | 982.5  | 976.8  | 974.4  | 971.3  | 970.8  | 973.3  | 973.9  | 974.4  | 974.8  | 976.8  |
| 5°    | 993.2  | 988.1  | 983.0  | 979.9  | 980.9  | 981.4  | 986.6  | 990.1  | 992.7  | 994.8  | 995.8  |
| 7.5°  | 1011.2 | 1007.1 | 998.4  | 997.8  | 999.4  | 1004.0 | 1010.6 | 1018.8 | 1023.5 | 1026.9 | 1028.0 |
| 10°   | 1037.7 | 1030.0 | 1019.9 | 1021.4 | 1024.5 | 1031.0 | 1044.9 | 1051.5 | 1059.2 | 1065.9 | 1064.4 |
| 12.5° | 1064.9 | 1058.2 | 1046.4 | 1047.4 | 1052.6 | 1064.4 | 1077.6 | 1085.8 | 1090.9 | 1096.0 | 1098.1 |
| 15°   | 1100.1 | 1088.3 | 1075.5 | 1075.5 | 1084.8 | 1097.6 | 1103.7 | 1110.4 | 1113.5 | 1119.1 | 1121.1 |
| 17.5° | 1136.4 | 1121.1 | 1104.2 | 1103.2 | 1114.5 | 1120.6 | 1124.2 | 1125.1 | 1126.2 | 1132.3 | 1134.4 |
| 20°   | 1172.8 | 1155.9 | 1131.8 | 1129.8 | 1132.3 | 1131.3 | 1130.8 | 1129.8 | 1131.3 | 1139.0 | 1142.1 |
| 22.5° | 1208.6 | 1189.1 | 1155.9 | 1146.7 | 1139.5 | 1129.8 | 1129.2 | 1128.7 | 1129.8 | 1137.4 | 1142.6 |
| 25°   | 1250.5 | 1226.9 | 1182.4 | 1154.9 | 1130.8 | 1117.6 | 1119.1 | 1119.6 | 1120.6 | 1126.7 | 1134.9 |
| 27.5° | 1296.0 | 1270.0 | 1207.0 | 1152.3 | 1108.8 | 1099.6 | 1097.1 | 1098.6 | 1102.2 | 1111.9 | 1121.7 |
| 30°   | 1341.5 | 1310.9 | 1229.5 | 1142.1 | 1081.2 | 1068.5 | 1060.3 | 1063.8 | 1075.0 | 1084.8 | 1095.5 |
| 32.5° | 1382.9 | 1352.3 | 1247.4 | 1119.6 | 1045.9 | 1025.9 | 1015.3 | 1019.9 | 1031.0 | 1034.6 | 1047.4 |
| 35°   | 1431.5 | 1396.8 | 1255.1 | 1083.7 | 1007.6 | 976.8  | 962.6  | 955.9  | 961.6  | 958.0  | 969.2  |
| 37.5° | 1485.7 | 1449.5 | 1254.1 | 1036.7 | 962.6  | 927.2  | 907.3  | 882.2  | 870.5  | 858.2  | 865.9  |
| 40°   | 1566.1 | 1513.9 | 1241.8 | 979.9  | 906.8  | 874.6  | 838.8  | 796.3  | 769.8  | 745.7  | 747.2  |
| 42.5° | 1675.5 | 1603.4 | 1219.3 | 917.6  | 843.9  | 813.7  | 765.2  | 715.6  | 673.6  | 633.7  | 630.1  |
| 45°   | 1838.6 | 1720.6 | 1191.2 | 851.1  | 775.8  | 746.2  | 693.5  | 637.8  | 590.2  | 539.0  | 532.9  |
| 47.5° | 2074.0 | 1878.0 | 1164.6 | 775.3  | 704.3  | 677.1  | 629.6  | 577.9  | 521.7  | 472.1  | 466.5  |
| 50°   | 2397.2 | 2104.1 | 1140.0 | 701.7  | 633.7  | 613.3  | 575.3  | 522.8  | 466.0  | 426.0  | 423.5  |
| 52.5° | 2808.4 | 2411.5 | 1129.8 | 630.6  | 567.7  | 560.1  | 529.8  | 480.7  | 427.0  | 393.3  | 390.7  |
| 55°   | 3280.4 | 2779.2 | 1129.8 | 562.6  | 509.9  | 512.5  | 491.5  | 446.0  | 399.4  | 369.3  | 366.2  |
| 57.5° | 3762.3 | 3151.6 | 1109.4 | 499.7  | 460.8  | 471.6  | 458.3  | 418.4  | 376.4  | 345.2  | 340.1  |
| 60°   | 4206.2 | 3463.6 | 1026.4 | 442.4  | 417.4  | 434.2  | 425.5  | 391.2  | 340.1  | 314.1  | 310.0  |
| 62.5° | 4547.3 | 3639.5 | 866.9  | 396.9  | 381.5  | 401.0  | 396.4  | 355.5  | 333.4  | 322.8  | 319.2  |
| 65°   | 4718.2 | 3610.9 | 662.9  | 356.5  | 351.4  | 381.5  | 371.9  | 370.3  | 352.9  | 340.6  | 336.5  |
| 67.5° | 4613.3 | 3364.4 | 480.7  | 326.8  | 333.9  | 363.7  | 401.0  | 407.1  | 374.8  | 350.9  | 346.8  |
| 70°   | 4153.5 | 2918.4 | 358.0  | 298.7  | 312.0  | 364.2  | 457.3  | 426.0  | 367.8  | 339.6  | 335.0  |
| 72.5° | 3159.8 | 2176.2 | 277.7  | 269.1  | 283.3  | 366.7  | 482.3  | 417.4  | 347.3  | 375.4  | 372.4  |
| 75°   | 1807.0 | 1194.7 | 223.0  | 232.7  | 247.5  | 342.7  | 469.6  | 394.8  | 331.4  | 344.7  | 344.7  |
| 77.5° | 688.9  | 459.3  | 184.1  | 196.9  | 199.0  | 299.2  | 449.1  | 393.3  | 315.6  | 307.9  | 280.7  |
| 80°   | 238.8  | 179.5  | 152.4  | 156.5  | 154.0  | 266.0  | 430.6  | 342.1  | 258.3  | 231.1  | 223.6  |
| 82.5° | 97.7   | 89.5   | 120.7  | 115.6  | 109.5  | 206.6  | 347.8  | 279.7  | 211.3  | 186.7  | 184.6  |
| 85°   | 42.4   | 56.8   | 79.7   | 70.1   | 63.4   | 143.2  | 278.7  | 236.8  | 178.5  | 154.0  | 153.4  |
| 87.5° | 8.7    | 21.5   | 33.7   | 31.7   | 32.7   | 95.6   | 197.9  | 168.3  | 126.3  | 94.6   | 74.2   |
| 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)