

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: P961424

Luminaire Tested: **NVN-SB2A-740-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961424
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB2A-740-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10017.3 lumens
Efficiency: N/A
Efficacy: 174.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

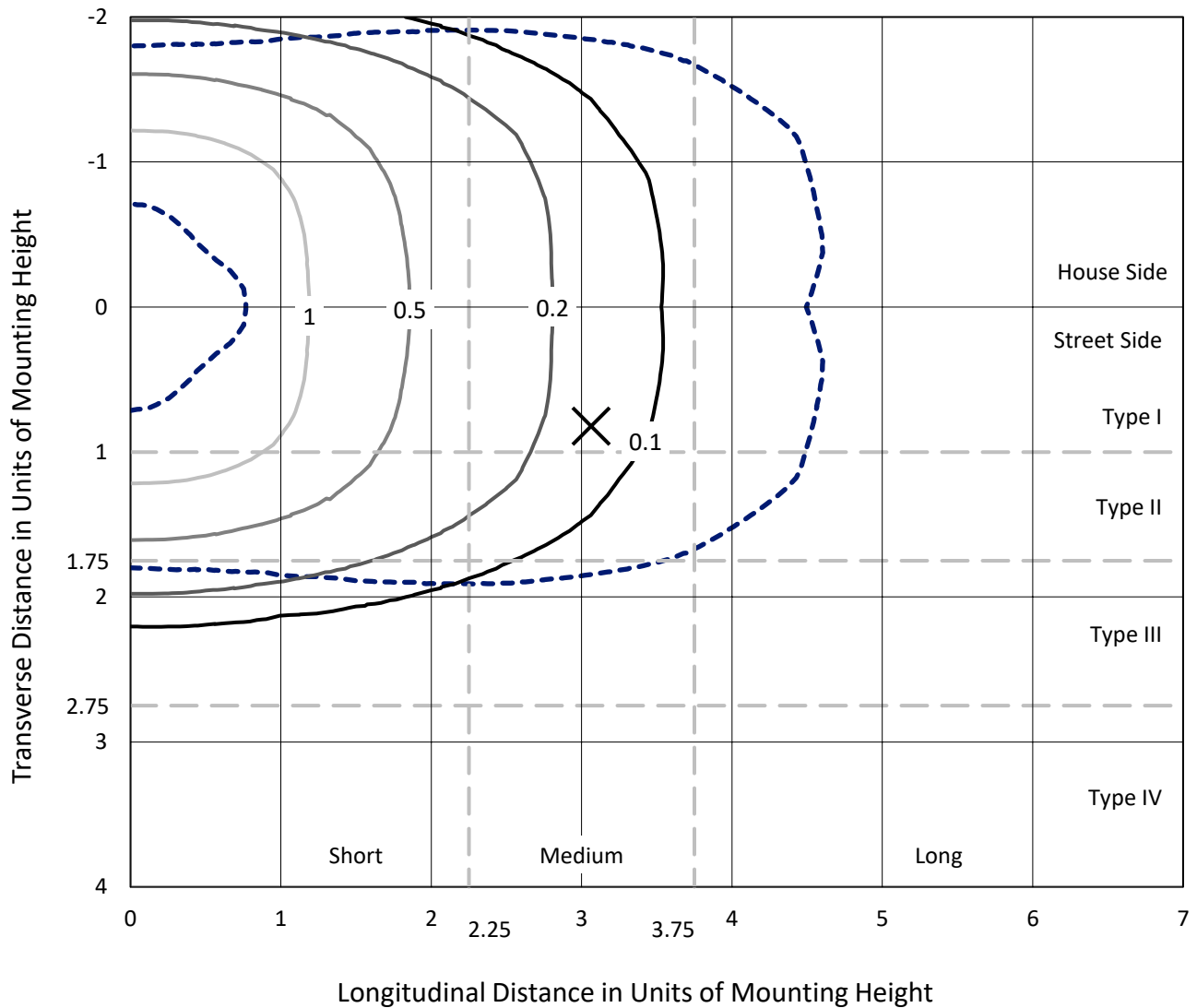
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

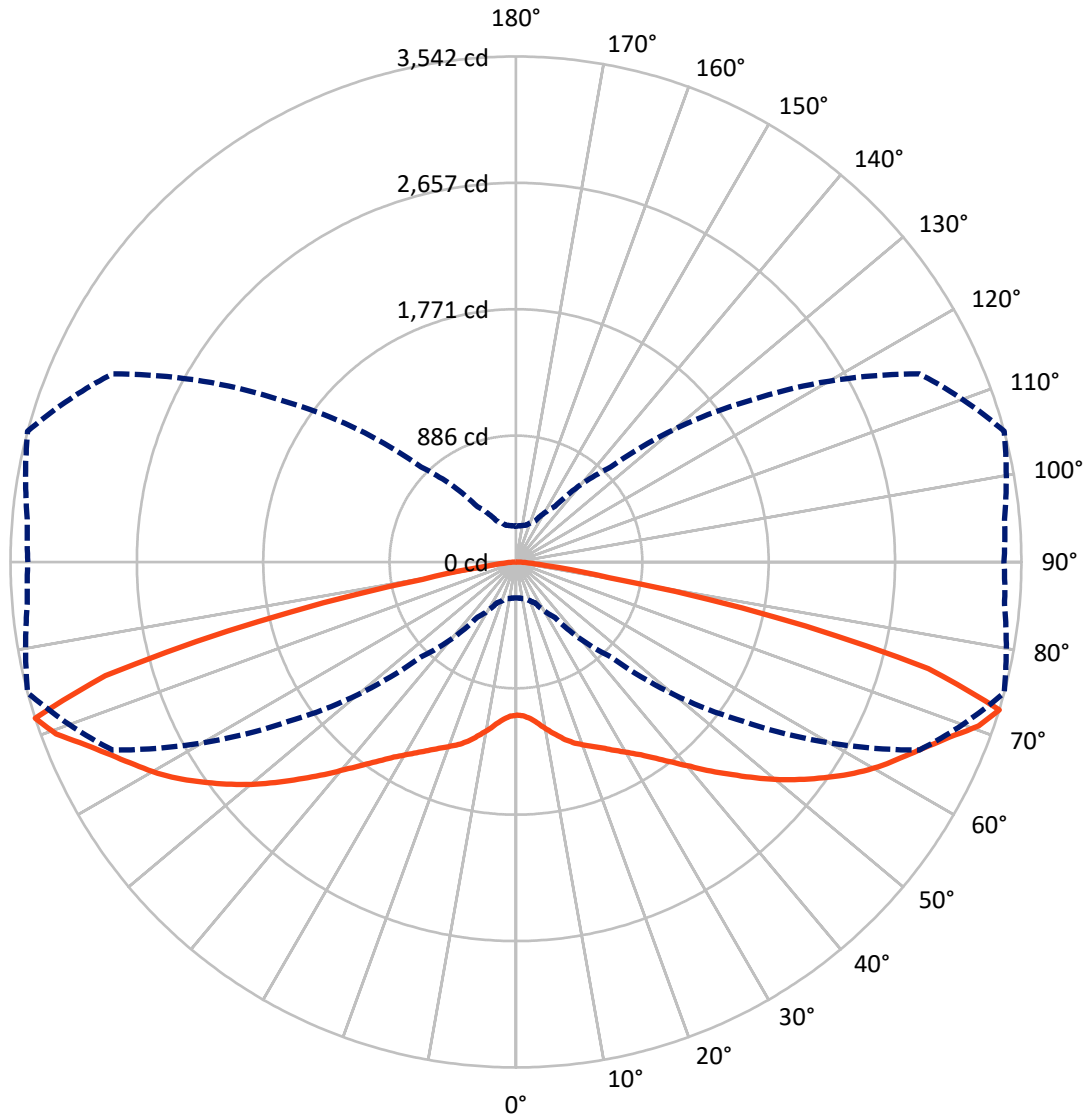
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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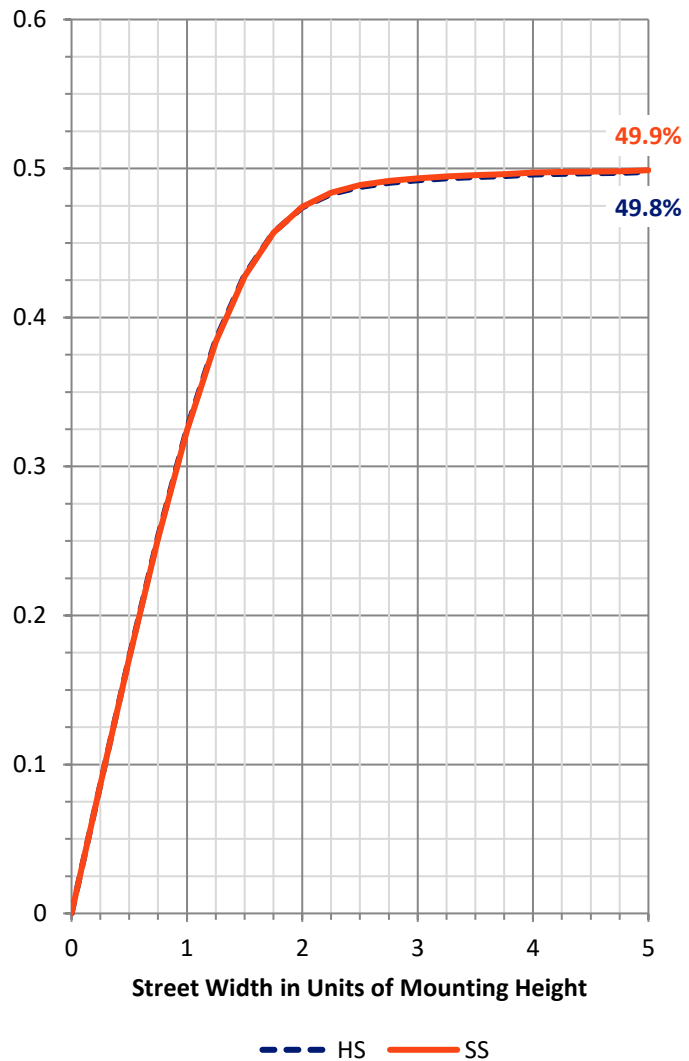
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5008.7 | 0.0 | 5008.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5008.7 | 0.0 | 5008.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 10017.3 | 0.0 | 10017.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 105.1 | 1.0 |
| 10°-20° | 346.7 | 3.5 |
| 20°-30° | 669.9 | 6.7 |
| 30°-40° | 1131.2 | 11.3 |
| 40°-50° | 1793.9 | 17.9 |
| 50°-60° | 2401.8 | 24.0 |
| 60°-70° | 2285.7 | 22.8 |
| 70°-80° | 1192.8 | 11.9 |
| 80°-90° | 90.3 | 0.9 |
| 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° | 10017.3 | 100.0 |
| 0°-180° | 10017.3 | 100.0 |

Coefficient of Utilization



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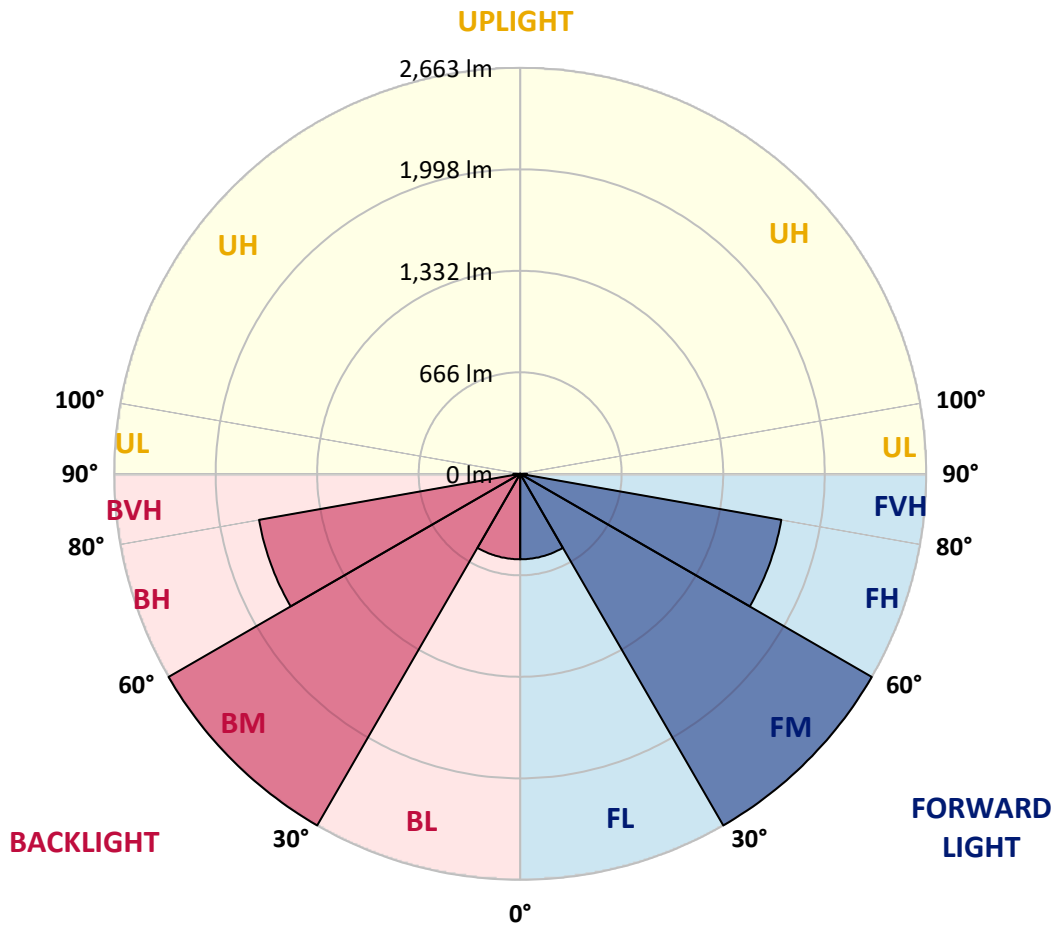
CATALOG NUMBER: NVN-SB2A-740-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 560.8 | 5.6 | | | |
| FM (30°-60°) | 2663.4 | 26.6 | | | |
| FH (60°-80°) | 1739.2 | 17.4 | | | G1/1800 |
| FVH (80°-90°) | 45.1 | 0.5 | | | G1/100 |
| BL (0°-30°) | 560.8 | 5.6 | B2/1000 | | |
| BM (30°-60°) | 2663.4 | 26.6 | B3/5000 | | |
| BH (60°-80°) | 1739.2 | 17.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 45.1 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1073.1 | 1073.1 | 1073.1 | 1073.1 | 1073.1 | 1073.1 | 1073.1 | 1073.1 | 1073.1 | 1073.1 | 1073.1 |
| 2.5° | 1073.1 | 1072.0 | 1073.1 | 1074.1 | 1073.6 | 1073.6 | 1076.1 | 1077.7 | 1080.7 | 1080.1 | 1079.7 |
| 5° | 1065.9 | 1065.4 | 1069.5 | 1074.1 | 1077.7 | 1083.7 | 1091.4 | 1097.1 | 1104.2 | 1105.8 | 1105.8 |
| 7.5° | 1062.3 | 1060.8 | 1067.9 | 1076.1 | 1087.3 | 1102.7 | 1117.6 | 1132.8 | 1145.1 | 1149.2 | 1150.3 |
| 10° | 1064.9 | 1065.4 | 1075.1 | 1090.4 | 1108.3 | 1129.9 | 1150.8 | 1176.9 | 1194.2 | 1198.3 | 1202.4 |
| 12.5° | 1076.7 | 1075.6 | 1091.9 | 1116.5 | 1141.0 | 1168.2 | 1192.7 | 1221.4 | 1240.2 | 1250.0 | 1254.1 |
| 15° | 1098.1 | 1096.0 | 1119.1 | 1155.4 | 1191.2 | 1222.9 | 1242.8 | 1270.0 | 1291.9 | 1304.2 | 1308.8 |
| 17.5° | 1123.7 | 1124.7 | 1154.9 | 1201.9 | 1249.0 | 1284.7 | 1303.7 | 1317.5 | 1334.3 | 1345.1 | 1350.2 |
| 20° | 1168.7 | 1170.8 | 1204.5 | 1260.2 | 1313.9 | 1354.8 | 1370.2 | 1365.1 | 1369.7 | 1377.9 | 1384.0 |
| 22.5° | 1229.1 | 1230.1 | 1267.9 | 1328.3 | 1384.5 | 1429.6 | 1439.7 | 1418.8 | 1406.0 | 1411.6 | 1415.7 |
| 25° | 1299.1 | 1305.7 | 1343.6 | 1405.5 | 1463.3 | 1506.2 | 1510.8 | 1479.2 | 1447.4 | 1448.9 | 1451.5 |
| 27.5° | 1384.5 | 1390.6 | 1429.1 | 1490.4 | 1549.2 | 1586.5 | 1586.0 | 1543.5 | 1497.0 | 1485.2 | 1488.8 |
| 30° | 1477.1 | 1483.7 | 1523.1 | 1586.5 | 1641.2 | 1674.0 | 1666.9 | 1616.2 | 1549.7 | 1527.8 | 1530.3 |
| 32.5° | 1587.0 | 1591.1 | 1631.1 | 1694.4 | 1745.1 | 1771.2 | 1756.3 | 1693.9 | 1611.1 | 1586.0 | 1592.1 |
| 35° | 1720.1 | 1726.2 | 1755.8 | 1815.7 | 1860.2 | 1881.7 | 1856.6 | 1782.9 | 1689.8 | 1661.7 | 1665.8 |
| 37.5° | 1872.0 | 1867.9 | 1901.6 | 1954.8 | 1991.6 | 2004.9 | 1970.7 | 1883.1 | 1779.9 | 1746.6 | 1752.7 |
| 40° | 2030.5 | 2028.5 | 2065.3 | 2116.4 | 2136.3 | 2144.5 | 2093.9 | 1998.2 | 1883.6 | 1847.9 | 1859.7 |
| 42.5° | 2174.2 | 2172.7 | 2222.3 | 2279.1 | 2303.1 | 2293.8 | 2230.0 | 2120.5 | 2003.9 | 1963.0 | 1973.2 |
| 45° | 2289.2 | 2287.2 | 2348.1 | 2427.9 | 2475.0 | 2459.6 | 2373.7 | 2255.5 | 2125.6 | 2083.2 | 2092.8 |
| 47.5° | 2377.8 | 2378.8 | 2444.2 | 2542.9 | 2625.3 | 2631.0 | 2520.5 | 2393.1 | 2259.6 | 2211.5 | 2225.9 |
| 50° | 2441.7 | 2444.7 | 2514.8 | 2624.3 | 2736.9 | 2786.5 | 2670.3 | 2534.3 | 2398.2 | 2344.0 | 2360.4 |
| 52.5° | 2457.5 | 2463.2 | 2547.5 | 2676.0 | 2808.4 | 2903.0 | 2822.7 | 2669.8 | 2529.7 | 2478.0 | 2491.3 |
| 55° | 2373.2 | 2384.5 | 2491.3 | 2671.9 | 2852.4 | 2979.8 | 2956.7 | 2807.4 | 2662.1 | 2608.9 | 2623.8 |
| 57.5° | 2179.4 | 2195.1 | 2320.0 | 2555.7 | 2842.6 | 3032.5 | 3060.5 | 2939.3 | 2794.6 | 2743.4 | 2755.2 |
| 60° | 1907.7 | 1926.7 | 2046.3 | 2303.6 | 2705.6 | 3051.8 | 3133.7 | 3067.7 | 2916.3 | 2866.7 | 2877.5 |
| 62.5° | 1498.0 | 1522.6 | 1665.8 | 1967.6 | 2416.1 | 2961.3 | 3196.1 | 3183.9 | 3025.8 | 2963.9 | 2971.1 |
| 65° | 961.0 | 987.1 | 1138.0 | 1494.4 | 2030.0 | 2684.2 | 3215.5 | 3296.8 | 3141.3 | 3054.9 | 3065.7 |
| 67.5° | 579.4 | 591.2 | 665.9 | 905.8 | 1483.7 | 2266.3 | 3050.8 | 3422.2 | 3276.4 | 3169.0 | 3177.2 |
| 70° | 370.8 | 377.4 | 422.0 | 531.9 | 838.8 | 1653.5 | 2642.7 | 3445.6 | 3440.0 | 3286.2 | 3285.1 |
| 72.5° | 251.6 | 253.7 | 265.5 | 315.1 | 474.7 | 939.5 | 1949.1 | 3119.4 | 3542.3 | 3437.0 | 3420.6 |
| 75° | 184.1 | 195.4 | 214.3 | 223.0 | 269.6 | 469.6 | 1117.0 | 2191.6 | 2985.4 | 3031.4 | 2919.9 |
| 77.5° | 137.0 | 137.6 | 163.7 | 173.9 | 192.3 | 250.1 | 472.6 | 1223.4 | 1853.5 | 1946.1 | 1735.8 |
| 80° | 116.1 | 110.0 | 109.5 | 140.1 | 144.7 | 156.0 | 211.3 | 422.5 | 663.9 | 402.5 | 304.3 |
| 82.5° | 96.7 | 90.0 | 81.3 | 109.5 | 98.7 | 95.6 | 91.5 | 171.9 | 211.3 | 103.8 | 88.5 |
| 85° | 67.5 | 64.5 | 61.4 | 71.6 | 56.3 | 48.1 | 44.0 | 80.3 | 89.0 | 44.0 | 38.8 |
| 87.5° | 29.1 | 30.1 | 30.6 | 31.7 | 23.6 | 16.9 | 16.9 | 22.5 | 22.5 | 17.4 | 12.8 |
| 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)