

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: P882055

Luminaire Tested: **NVN-SB1D-730-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882055
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1D-730-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9918 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

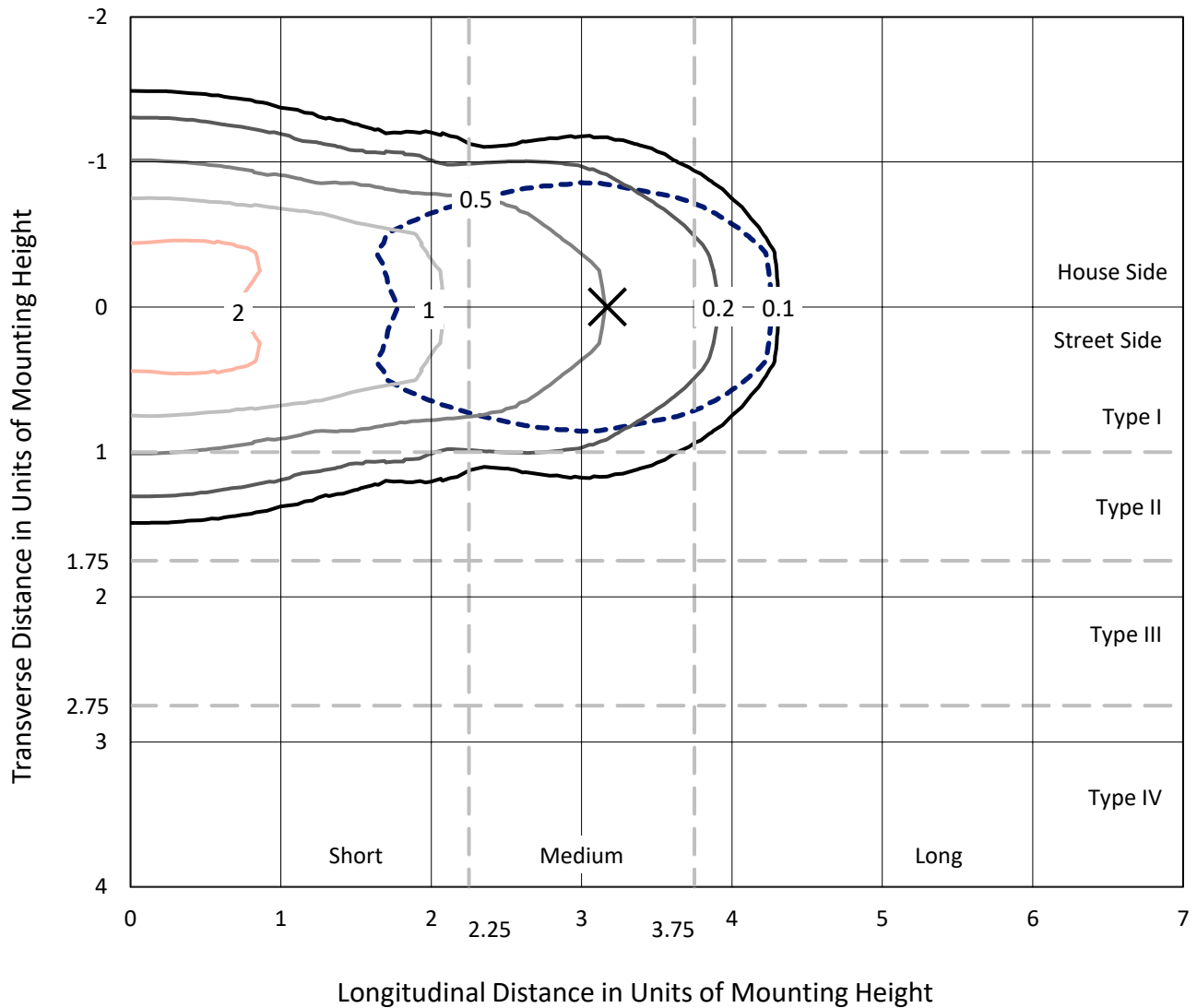
Input Watts (W): 79.6
Input Voltage (V): 120.0
Input Current (Ain): 0.638
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.673
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

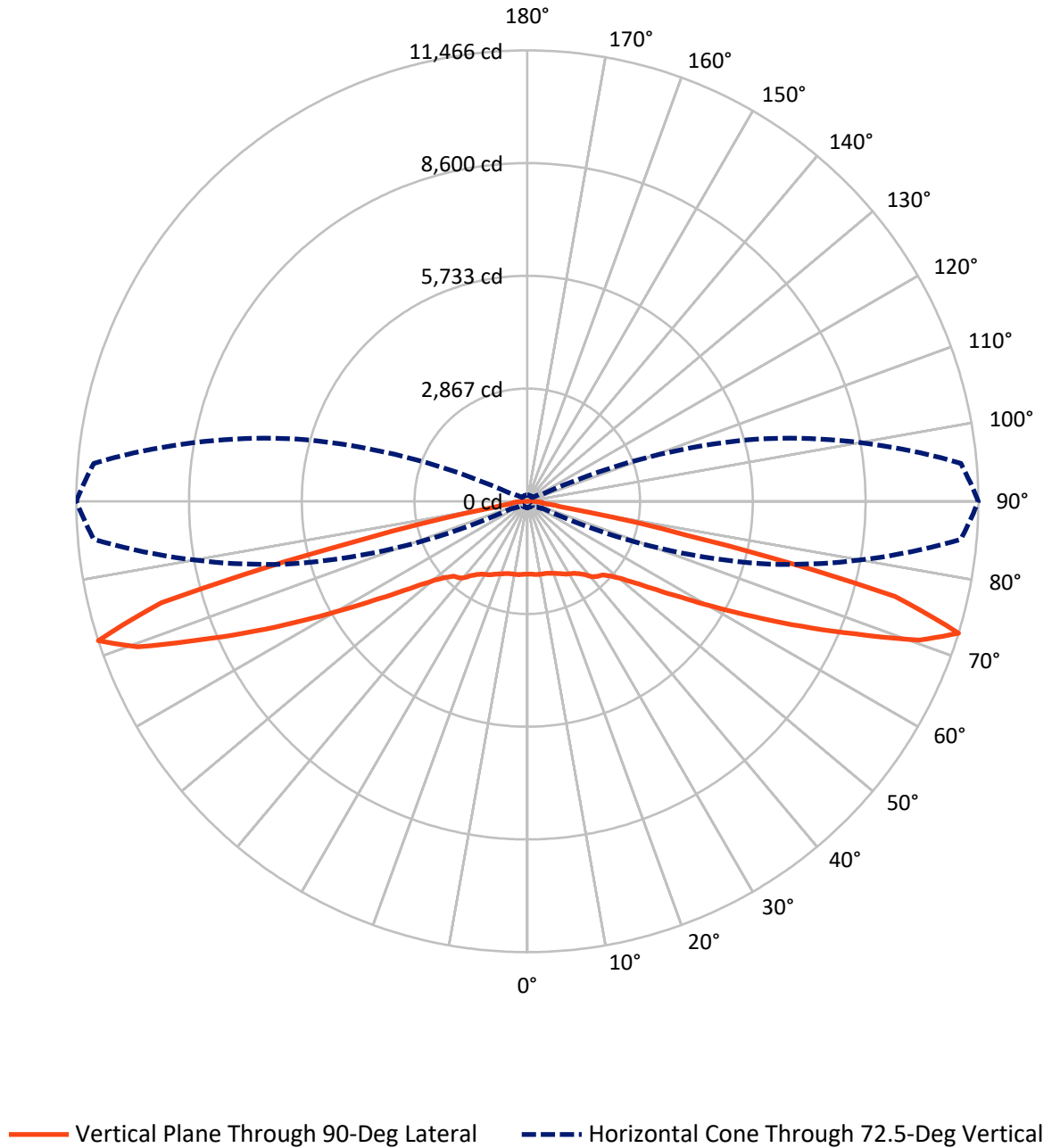
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4959.0 | 0.0 | 4959.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4959.0 | 0.0 | 4959.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 9918.0 | 0.0 | 9918.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 179.7 | 1.8 |
| 10°-20° | 549.4 | 5.5 |
| 20°-30° | 916.2 | 9.2 |
| 30°-40° | 1260.0 | 12.7 |
| 40°-50° | 1538.8 | 15.5 |
| 50°-60° | 1779.8 | 17.9 |
| 60°-70° | 2122.1 | 21.4 |
| 70°-80° | 1481.1 | 14.9 |
| 80°-90° | 91.0 | 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° | 9918.0 | 100.0 |
| 0°-180° | 9918.0 | 100.0 |

Coefficient of Utilization



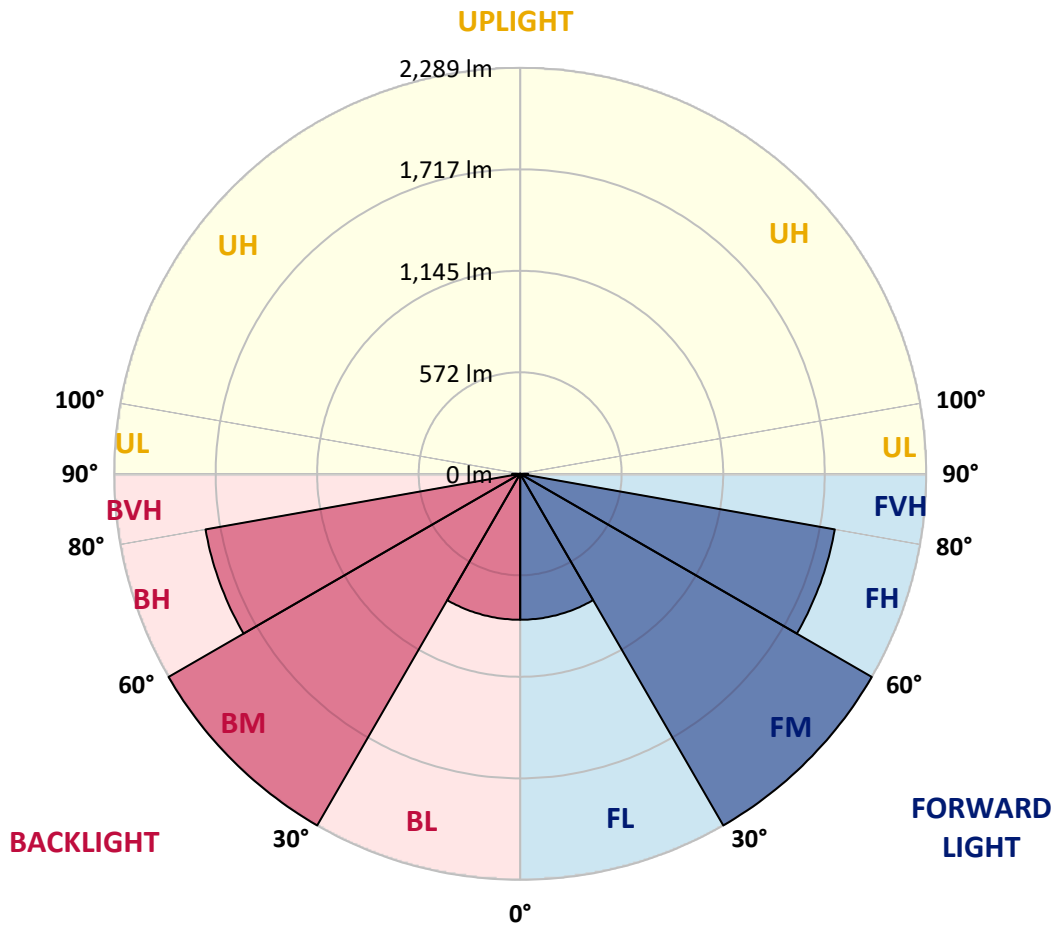
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 822.6 | 8.3 | | | |
| FM | (30°-60°) | 2289.3 | 23.1 | | | |
| FH | (60°-80°) | 1801.6 | 18.2 | | | G2/5000 |
| FVH | (80°-90°) | 45.5 | 0.5 | | | G1/100 |
| BL | (0°-30°) | 822.6 | 8.3 | B2/1000 | | |
| BM | (30°-60°) | 2289.3 | 23.1 | B2/2500 | | |
| BH | (60°-80°) | 1801.6 | 18.2 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 45.5 | 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 I Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0° | 1853.3 | 1853.3 | 1853.3 | 1853.3 | 1853.3 | 1853.3 | 1853.3 | 1853.3 | 1853.3 | 1853.3 | 1853.3 |
| 2.5° | 1854.9 | 1857.0 | 1857.0 | 1855.4 | 1859.1 | 1855.9 | 1855.9 | 1854.3 | 1855.9 | 1854.3 | 1854.3 |
| 5° | 1864.4 | 1867.0 | 1868.0 | 1867.5 | 1872.3 | 1869.6 | 1869.6 | 1867.5 | 1868.0 | 1866.5 | 1866.5 |
| 7.5° | 1882.3 | 1886.0 | 1888.1 | 1890.7 | 1897.6 | 1894.4 | 1892.3 | 1886.0 | 1883.3 | 1879.1 | 1879.1 |
| 10° | 1888.1 | 1892.3 | 1899.1 | 1912.8 | 1928.7 | 1929.2 | 1922.9 | 1907.0 | 1894.9 | 1885.4 | 1883.9 |
| 12.5° | 1870.2 | 1875.9 | 1890.2 | 1918.1 | 1953.4 | 1967.7 | 1957.6 | 1931.3 | 1907.6 | 1890.7 | 1888.1 |
| 15° | 1847.5 | 1853.8 | 1875.4 | 1917.6 | 1969.8 | 2003.0 | 2001.9 | 1967.1 | 1929.2 | 1902.8 | 1898.6 |
| 17.5° | 1812.2 | 1818.5 | 1849.6 | 1908.6 | 1982.4 | 2037.2 | 2052.0 | 2016.2 | 1962.9 | 1927.6 | 1921.8 |
| 20° | 1748.4 | 1754.2 | 1797.4 | 1880.2 | 1986.6 | 2073.6 | 2112.1 | 2080.5 | 2014.0 | 1966.1 | 1957.1 |
| 22.5° | 1665.6 | 1674.6 | 1725.2 | 1831.1 | 1976.6 | 2111.6 | 2180.6 | 2159.0 | 2073.6 | 2007.2 | 1995.1 |
| 25° | 1577.1 | 1586.6 | 1645.6 | 1771.1 | 1950.8 | 2139.0 | 2261.8 | 2248.1 | 2141.1 | 2058.3 | 2041.5 |
| 27.5° | 1500.7 | 1510.7 | 1575.0 | 1711.5 | 1910.7 | 2149.5 | 2341.9 | 2348.8 | 2222.8 | 2114.7 | 2096.8 |
| 30° | 1440.6 | 1450.1 | 1518.6 | 1663.5 | 1859.1 | 2139.0 | 2412.0 | 2459.4 | 2306.1 | 2163.7 | 2137.9 |
| 32.5° | 1374.7 | 1386.8 | 1459.0 | 1605.0 | 1797.9 | 2113.7 | 2473.2 | 2579.1 | 2402.5 | 2216.5 | 2183.8 |
| 35° | 1291.4 | 1302.5 | 1378.4 | 1524.9 | 1717.8 | 2073.1 | 2524.3 | 2711.9 | 2540.6 | 2296.6 | 2260.2 |
| 37.5° | 1190.2 | 1200.7 | 1276.1 | 1424.8 | 1638.2 | 2016.2 | 2563.3 | 2861.6 | 2705.1 | 2412.0 | 2363.5 |
| 40° | 1088.5 | 1098.5 | 1169.1 | 1313.0 | 1542.8 | 1943.4 | 2577.0 | 3008.2 | 2893.8 | 2570.7 | 2519.0 |
| 42.5° | 995.2 | 1004.1 | 1069.0 | 1202.8 | 1435.8 | 1850.6 | 2559.1 | 3135.7 | 3063.0 | 2681.4 | 2614.9 |
| 45° | 909.2 | 917.2 | 974.6 | 1099.5 | 1324.6 | 1737.8 | 2505.3 | 3272.8 | 3264.3 | 2760.4 | 2670.8 |
| 47.5° | 811.2 | 819.1 | 878.7 | 999.4 | 1213.4 | 1605.5 | 2414.1 | 3407.7 | 3544.2 | 2939.6 | 2836.3 |
| 50° | 691.6 | 698.4 | 759.6 | 883.9 | 1097.9 | 1464.8 | 2287.6 | 3513.6 | 3897.4 | 3211.1 | 3081.4 |
| 52.5° | 549.8 | 557.1 | 616.7 | 741.1 | 960.9 | 1313.5 | 2121.0 | 3582.7 | 4305.4 | 3607.5 | 3447.8 |
| 55° | 409.0 | 414.3 | 466.0 | 577.7 | 791.2 | 1141.2 | 1912.3 | 3602.2 | 4768.1 | 4149.3 | 3949.6 |
| 57.5° | 296.8 | 299.9 | 333.1 | 416.4 | 599.8 | 925.6 | 1658.8 | 3551.6 | 5319.0 | 4844.0 | 4592.6 |
| 60° | 240.4 | 241.4 | 251.4 | 288.3 | 416.9 | 682.1 | 1352.5 | 3377.7 | 5916.7 | 5739.6 | 5422.8 |
| 62.5° | 218.2 | 218.2 | 220.9 | 230.9 | 282.0 | 450.1 | 982.0 | 3017.1 | 6557.6 | 6871.3 | 6447.0 |
| 65° | 202.9 | 202.9 | 204.0 | 208.7 | 222.4 | 286.7 | 619.9 | 2429.9 | 7097.9 | 8196.9 | 7660.3 |
| 67.5° | 189.2 | 189.8 | 189.2 | 190.8 | 198.7 | 211.9 | 359.5 | 1678.3 | 7388.9 | 9570.6 | 8991.3 |
| 70° | 175.0 | 176.1 | 173.4 | 173.4 | 179.7 | 180.3 | 225.1 | 920.3 | 7147.5 | 10721.7 | 10569.4 |
| 72.5° | 158.1 | 159.7 | 155.5 | 154.4 | 159.2 | 157.1 | 169.2 | 441.7 | 6136.5 | 11065.4 | 11466.0 |
| 75° | 143.4 | 145.5 | 136.0 | 133.4 | 133.4 | 131.8 | 137.6 | 226.7 | 3982.8 | 9026.6 | 9654.9 |
| 77.5° | 130.2 | 134.4 | 119.1 | 110.7 | 108.6 | 103.8 | 112.3 | 138.6 | 1742.1 | 4237.9 | 4149.9 |
| 80° | 107.5 | 113.3 | 98.0 | 88.0 | 84.3 | 79.1 | 88.6 | 97.0 | 518.1 | 984.1 | 942.5 |
| 82.5° | 80.1 | 82.8 | 69.6 | 62.7 | 59.6 | 55.9 | 66.4 | 67.5 | 168.7 | 348.4 | 393.7 |
| 85° | 51.1 | 52.2 | 42.7 | 36.9 | 35.3 | 33.7 | 42.2 | 36.9 | 64.3 | 256.2 | 372.1 |
| 87.5° | 17.9 | 20.6 | 16.3 | 14.8 | 15.8 | 13.2 | 19.5 | 11.1 | 17.9 | 180.8 | 224.0 |
| 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)