

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: P965606

Luminaire Tested: **NVN-SB4A-735-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965606
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB4A-735-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18639.6 lumens
Efficiency: N/A
Efficacy: 163.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

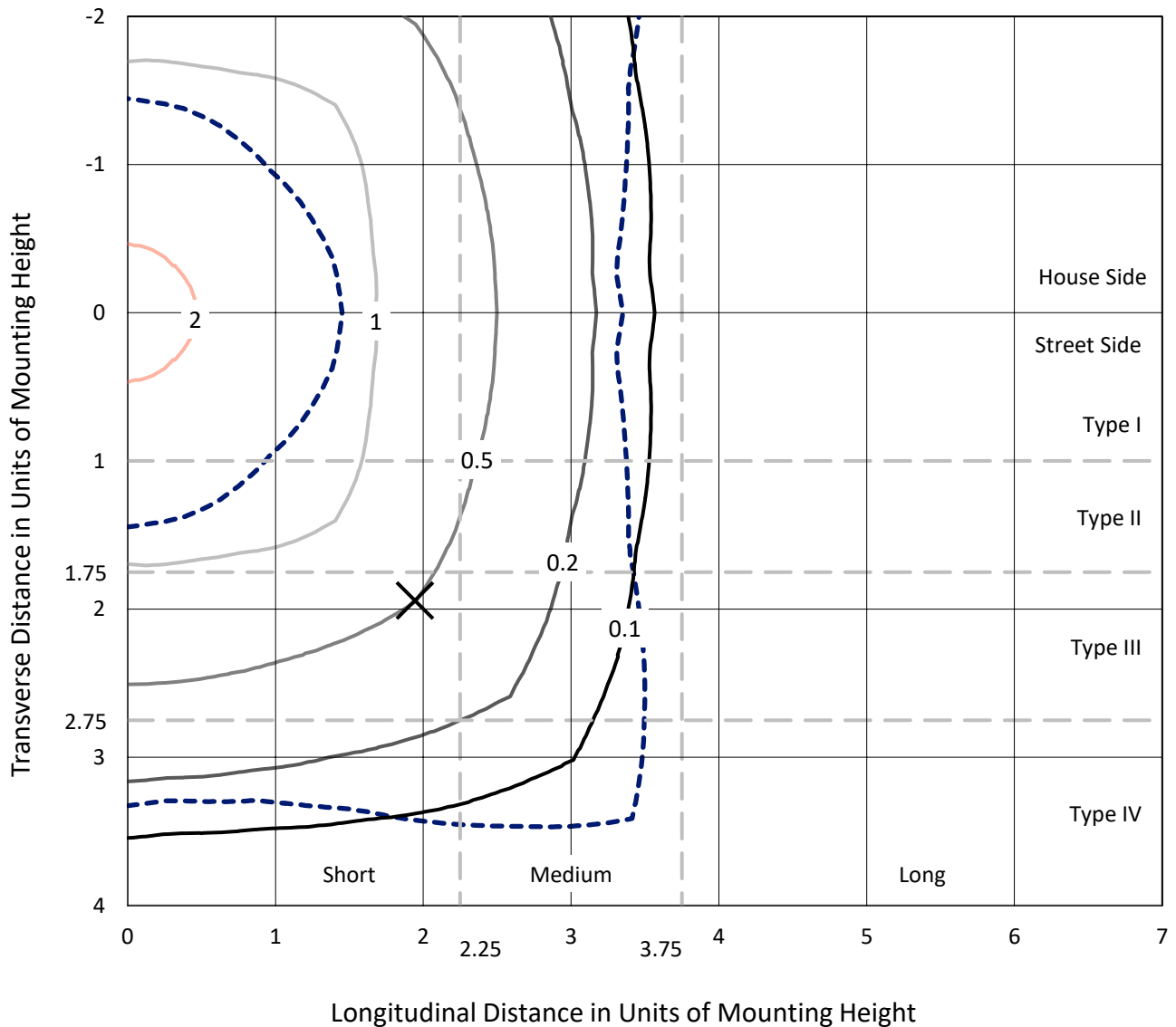
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

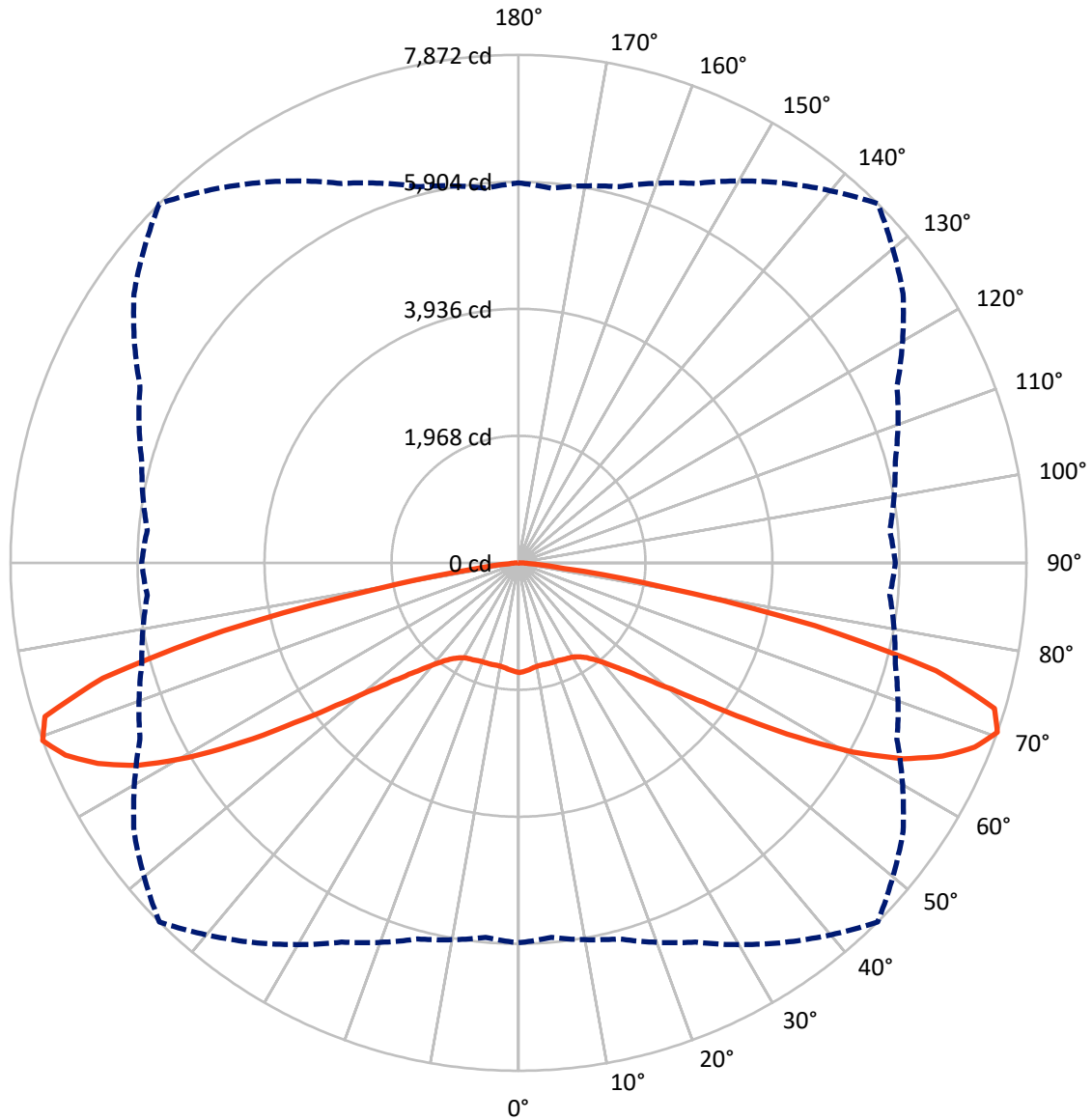
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9319.8 | 0.0 | 9319.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9319.8 | 0.0 | 9319.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 18639.6 | 0.0 | 18639.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 158.2 | 0.8 |
| 10°-20° | 464.4 | 2.5 |
| 20°-30° | 772.9 | 4.1 |
| 30°-40° | 1168.8 | 6.3 |
| 40°-50° | 1942.3 | 10.4 |
| 50°-60° | 3665.0 | 19.7 |
| 60°-70° | 6188.5 | 33.2 |
| 70°-80° | 4066.5 | 21.8 |
| 80°-90° | 213.0 | 1.1 |
| 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° | 18639.6 | 100.0 |
| 0°-180° | 18639.6 | 100.0 |

Coefficient of Utilization



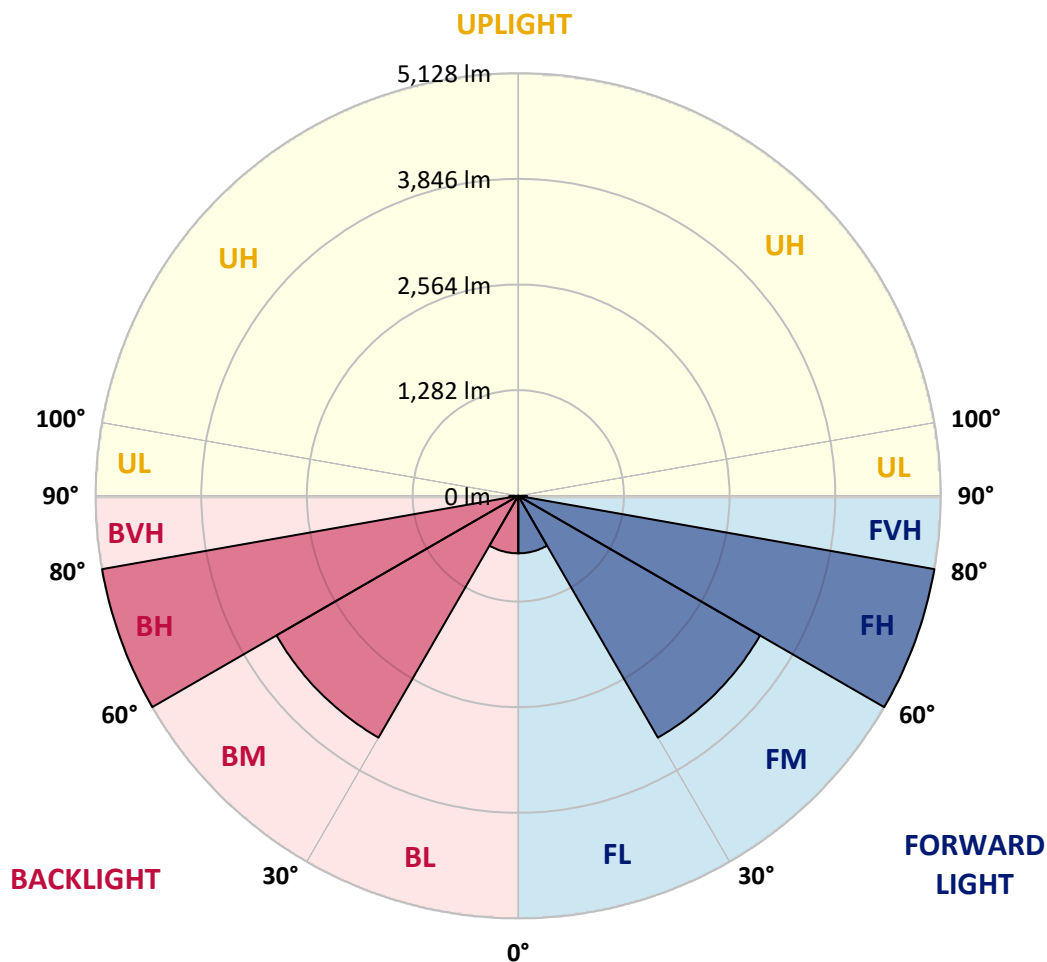
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 697.7 | 3.7 | | | |
| FM (30°-60°) | 3388.1 | 18.2 | | | |
| FH (60°-80°) | 5127.5 | 27.5 | | | G3/7500 |
| FVH (80°-90°) | 106.5 | 0.6 | | | G2/225 |
| BL (0°-30°) | 697.7 | 3.7 | B2/1000 | | |
| BM (30°-60°) | 3388.1 | 18.2 | B3/5000 | | |
| BH (60°-80°) | 5127.5 | 27.5 | B5 | | G3/7500 |
| BVH (80°-90°) | 106.5 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1700.3 | 1700.3 | 1700.3 | 1700.3 | 1700.3 | 1700.3 | 1700.3 | 1700.3 | 1700.3 | 1700.3 | 1700.3 |
| 2.5° | 1689.6 | 1694.5 | 1692.6 | 1688.7 | 1688.7 | 1685.8 | 1688.7 | 1690.6 | 1693.5 | 1695.5 | 1694.5 |
| 5° | 1667.4 | 1671.3 | 1670.2 | 1667.4 | 1668.3 | 1665.4 | 1667.4 | 1670.2 | 1672.2 | 1673.2 | 1673.2 |
| 7.5° | 1648.0 | 1651.9 | 1649.9 | 1645.1 | 1645.1 | 1642.2 | 1643.2 | 1646.0 | 1648.9 | 1649.9 | 1649.9 |
| 10° | 1643.2 | 1647.1 | 1641.2 | 1633.4 | 1630.6 | 1626.7 | 1627.6 | 1630.6 | 1636.4 | 1639.3 | 1639.3 |
| 12.5° | 1645.1 | 1648.0 | 1642.2 | 1630.6 | 1627.6 | 1623.8 | 1623.8 | 1626.7 | 1634.5 | 1638.3 | 1639.3 |
| 15° | 1650.9 | 1653.8 | 1645.1 | 1632.5 | 1629.5 | 1626.7 | 1625.8 | 1629.5 | 1638.3 | 1645.1 | 1646.0 |
| 17.5° | 1661.5 | 1664.5 | 1650.9 | 1633.4 | 1629.5 | 1630.6 | 1629.5 | 1632.5 | 1646.0 | 1658.7 | 1658.7 |
| 20° | 1671.3 | 1673.2 | 1654.8 | 1633.4 | 1629.5 | 1630.6 | 1629.5 | 1635.4 | 1652.8 | 1670.2 | 1671.3 |
| 22.5° | 1674.1 | 1676.1 | 1658.7 | 1640.2 | 1637.3 | 1638.3 | 1637.3 | 1643.2 | 1659.6 | 1677.1 | 1677.1 |
| 25° | 1675.2 | 1678.0 | 1664.5 | 1649.9 | 1654.8 | 1656.7 | 1654.8 | 1655.8 | 1668.3 | 1683.9 | 1682.8 |
| 27.5° | 1689.6 | 1693.5 | 1680.9 | 1668.3 | 1671.3 | 1670.2 | 1673.2 | 1676.1 | 1685.8 | 1701.3 | 1697.4 |
| 30° | 1719.6 | 1722.6 | 1712.0 | 1699.3 | 1697.4 | 1690.6 | 1699.3 | 1709.0 | 1719.6 | 1733.3 | 1730.3 |
| 32.5° | 1769.0 | 1774.9 | 1761.4 | 1747.8 | 1739.0 | 1735.2 | 1742.0 | 1758.5 | 1772.9 | 1787.5 | 1781.7 |
| 35° | 1851.5 | 1855.4 | 1842.7 | 1817.5 | 1802.1 | 1802.1 | 1807.9 | 1829.2 | 1852.4 | 1870.8 | 1864.1 |
| 37.5° | 1967.7 | 1972.5 | 1950.3 | 1920.2 | 1897.0 | 1897.0 | 1904.8 | 1927.0 | 1961.8 | 1988.1 | 1978.4 |
| 40° | 2109.1 | 2115.9 | 2087.8 | 2056.9 | 2034.5 | 2030.7 | 2040.4 | 2065.6 | 2098.5 | 2131.5 | 2120.8 |
| 42.5° | 2279.7 | 2287.4 | 2250.6 | 2223.4 | 2206.0 | 2206.0 | 2210.9 | 2234.1 | 2264.1 | 2304.8 | 2301.9 |
| 45° | 2497.6 | 2511.2 | 2460.8 | 2433.8 | 2417.3 | 2421.2 | 2424.0 | 2444.4 | 2471.5 | 2518.0 | 2516.1 |
| 47.5° | 2757.4 | 2770.9 | 2717.6 | 2689.5 | 2686.6 | 2705.0 | 2693.4 | 2707.9 | 2722.4 | 2775.7 | 2760.2 |
| 50° | 3051.8 | 3075.1 | 3038.3 | 3036.4 | 3042.1 | 3076.0 | 3049.0 | 3056.7 | 3040.3 | 3074.1 | 3053.8 |
| 52.5° | 3412.2 | 3446.2 | 3439.4 | 3451.0 | 3516.0 | 3585.7 | 3523.6 | 3496.6 | 3434.6 | 3445.2 | 3409.4 |
| 55° | 3849.2 | 3900.5 | 3910.3 | 3980.0 | 4127.3 | 4269.6 | 4137.9 | 4028.5 | 3896.6 | 3872.4 | 3834.6 |
| 57.5° | 4346.2 | 4386.9 | 4433.4 | 4575.8 | 4851.0 | 5103.9 | 4851.0 | 4608.7 | 4401.5 | 4352.0 | 4317.1 |
| 60° | 4881.0 | 4931.4 | 4976.0 | 5186.2 | 5595.1 | 5950.6 | 5587.3 | 5202.7 | 4928.5 | 4861.6 | 4803.5 |
| 62.5° | 5455.6 | 5520.4 | 5551.4 | 5784.9 | 6261.6 | 6686.0 | 6268.4 | 5802.3 | 5498.1 | 5426.5 | 5368.3 |
| 65° | 6006.8 | 6060.1 | 6095.0 | 6343.9 | 6799.3 | 7224.6 | 6830.3 | 6371.1 | 6058.2 | 5964.2 | 5917.6 |
| 67.5° | 6263.6 | 6292.6 | 6377.9 | 6659.8 | 7140.4 | 7625.7 | 7221.7 | 6689.9 | 6340.0 | 6175.3 | 6177.3 |
| 70° | 5887.6 | 5828.6 | 6033.9 | 6485.4 | 7181.0 | 7871.8 | 7274.0 | 6471.8 | 6043.6 | 5776.2 | 5840.1 |
| 72.5° | 4549.7 | 4447.9 | 4804.5 | 5576.6 | 6716.0 | 7714.9 | 6762.4 | 5620.2 | 5026.3 | 4483.8 | 4618.4 |
| 75° | 2475.4 | 2360.1 | 2852.3 | 3828.9 | 5355.7 | 6686.9 | 5478.7 | 3938.4 | 3175.9 | 2456.9 | 2616.8 |
| 77.5° | 698.5 | 655.0 | 1052.2 | 1852.4 | 3221.4 | 4695.0 | 3345.4 | 1893.1 | 1247.8 | 740.2 | 822.6 |
| 80° | 214.1 | 207.4 | 281.0 | 558.0 | 1368.0 | 2248.6 | 1314.7 | 564.9 | 357.5 | 225.7 | 238.3 |
| 82.5° | 126.9 | 116.2 | 139.5 | 203.5 | 348.8 | 706.3 | 339.1 | 212.2 | 170.6 | 114.3 | 124.0 |
| 85° | 72.7 | 67.9 | 82.3 | 98.8 | 117.3 | 150.2 | 97.9 | 100.8 | 91.0 | 61.0 | 64.0 |
| 87.5° | 30.0 | 27.2 | 32.0 | 31.0 | 27.2 | 34.8 | 26.1 | 31.0 | 36.8 | 24.2 | 22.2 |
| 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)