

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: P969729

Luminaire Tested: **NAV-SB6A-722-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969729
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: LUMARK
Catalog Number: NAV-SB6A-722-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23298.2 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

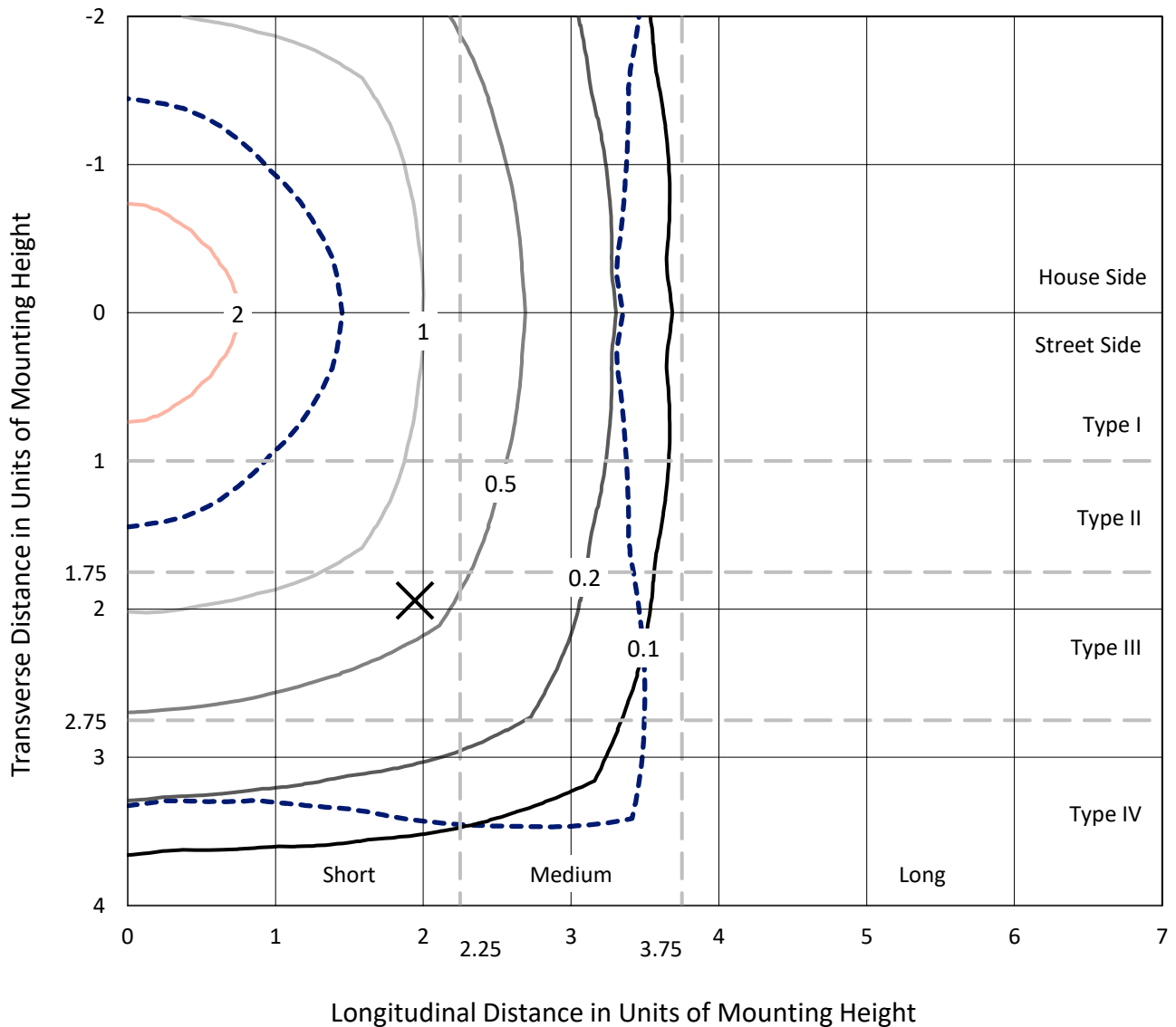
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

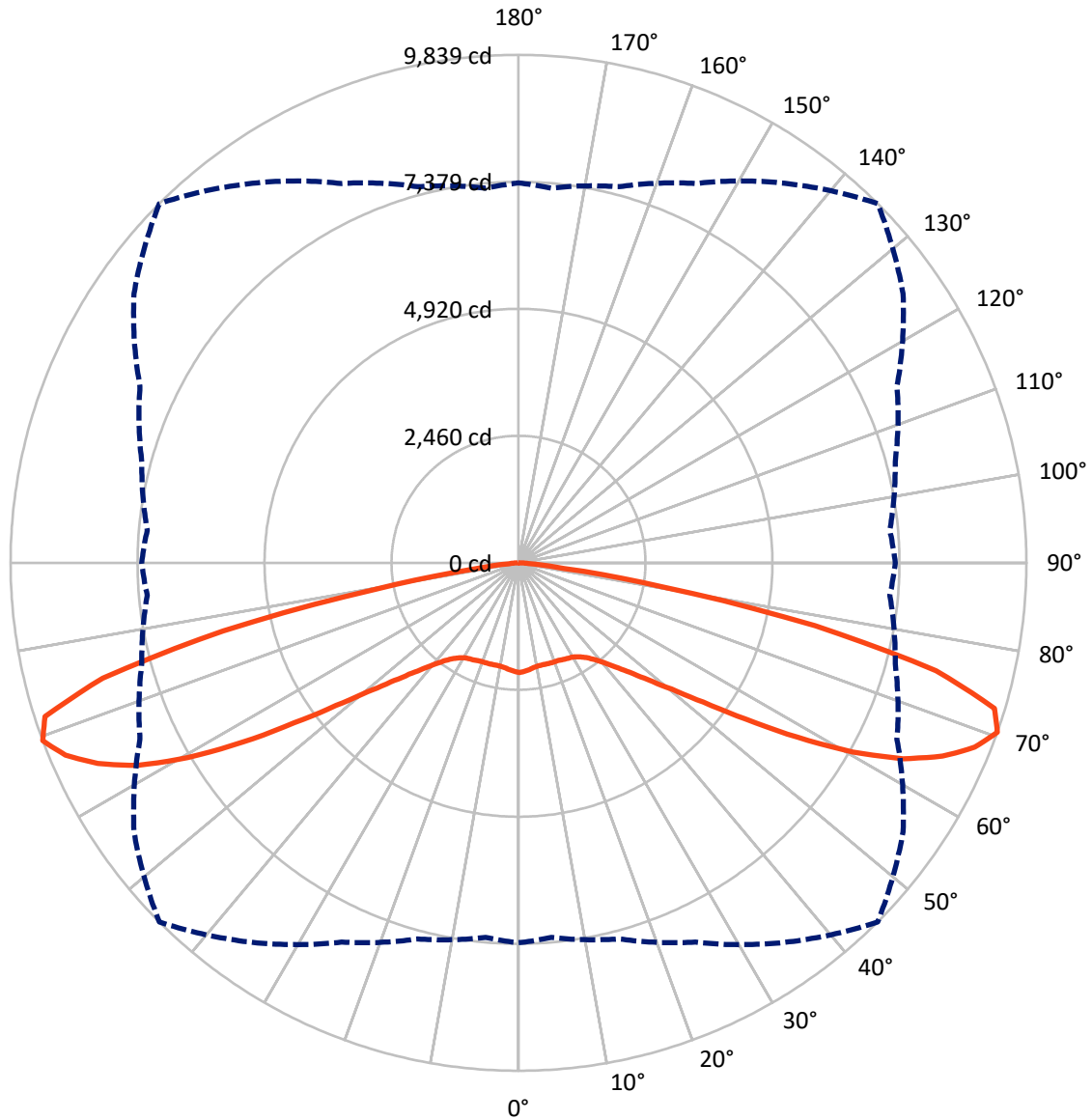
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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 | 11649.1 | 0.0 | 11649.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 11649.1 | 0.0 | 11649.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 23298.2 | 0.0 | 23298.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 197.7 | 0.8 |
| 10°-20° | 580.5 | 2.5 |
| 20°-30° | 966.0 | 4.1 |
| 30°-40° | 1460.9 | 6.3 |
| 40°-50° | 2427.7 | 10.4 |
| 50°-60° | 4581.0 | 19.7 |
| 60°-70° | 7735.2 | 33.2 |
| 70°-80° | 5082.8 | 21.8 |
| 80°-90° | 266.3 | 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° | 23298.2 | 100.0 |
| 0°-180° | 23298.2 | 100.0 |

Coefficient of Utilization



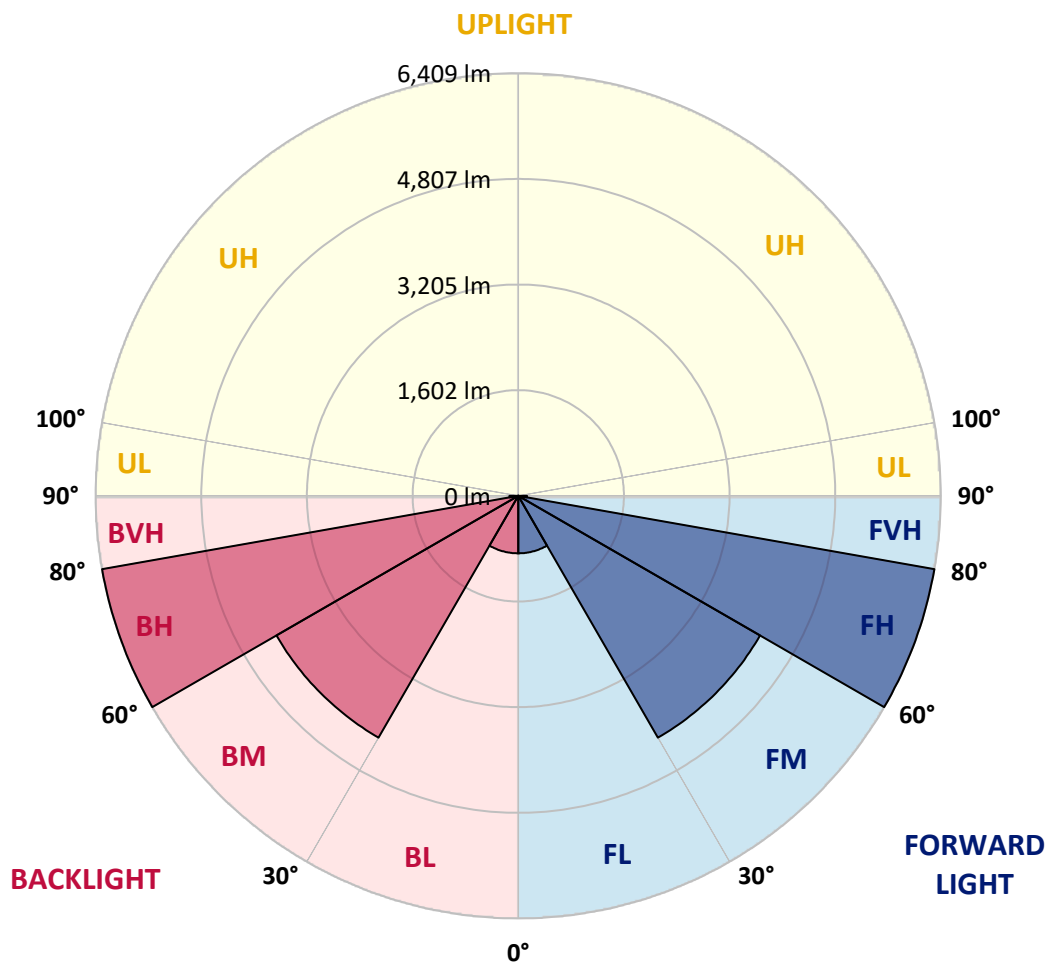
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 872.1 | 3.7 | | | |
| FM (30°-60°) | 4234.8 | 18.2 | | | |
| FH (60°-80°) | 6409.0 | 27.5 | | | G3/7500 |
| FVH (80°-90°) | 133.1 | 0.6 | | | G2/225 |
| BL (0°-30°) | 872.1 | 3.7 | B2/1000 | | |
| BM (30°-60°) | 4234.8 | 18.2 | B3/5000 | | |
| BH (60°-80°) | 6409.0 | 27.5 | B5 | | G3/7500 |
| BVH (80°-90°) | 133.1 | 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° | 2125.2 | 2125.2 | 2125.2 | 2125.2 | 2125.2 | 2125.2 | 2125.2 | 2125.2 | 2125.2 | 2125.2 | 2125.2 |
| 2.5° | 2111.9 | 2118.0 | 2115.6 | 2110.8 | 2110.8 | 2107.1 | 2110.8 | 2113.1 | 2116.8 | 2119.2 | 2118.0 |
| 5° | 2084.1 | 2089.0 | 2087.7 | 2084.1 | 2085.3 | 2081.7 | 2084.1 | 2087.7 | 2090.2 | 2091.4 | 2091.4 |
| 7.5° | 2059.8 | 2064.8 | 2062.3 | 2056.3 | 2056.3 | 2052.6 | 2053.8 | 2057.5 | 2061.1 | 2062.3 | 2062.3 |
| 10° | 2053.8 | 2058.7 | 2051.4 | 2041.7 | 2038.1 | 2033.2 | 2034.4 | 2038.1 | 2045.4 | 2049.0 | 2049.0 |
| 12.5° | 2056.3 | 2059.8 | 2052.6 | 2038.1 | 2034.4 | 2029.6 | 2029.6 | 2033.2 | 2042.9 | 2047.7 | 2049.0 |
| 15° | 2063.5 | 2067.1 | 2056.3 | 2040.5 | 2036.9 | 2033.2 | 2032.1 | 2036.9 | 2047.7 | 2056.3 | 2057.5 |
| 17.5° | 2076.9 | 2080.4 | 2063.5 | 2041.7 | 2036.9 | 2038.1 | 2036.9 | 2040.5 | 2057.5 | 2073.2 | 2073.2 |
| 20° | 2089.0 | 2091.4 | 2068.3 | 2041.7 | 2036.9 | 2038.1 | 2036.9 | 2044.2 | 2065.9 | 2087.7 | 2089.0 |
| 22.5° | 2092.5 | 2095.0 | 2073.2 | 2050.2 | 2046.5 | 2047.7 | 2046.5 | 2053.8 | 2074.4 | 2096.2 | 2096.2 |
| 25° | 2093.8 | 2097.5 | 2080.4 | 2062.3 | 2068.3 | 2070.8 | 2068.3 | 2069.6 | 2085.3 | 2104.6 | 2103.5 |
| 27.5° | 2111.9 | 2116.8 | 2101.0 | 2085.3 | 2089.0 | 2087.7 | 2091.4 | 2095.0 | 2107.1 | 2126.5 | 2121.6 |
| 30° | 2149.5 | 2153.1 | 2139.8 | 2124.1 | 2121.6 | 2113.1 | 2124.1 | 2136.2 | 2149.5 | 2166.4 | 2162.9 |
| 32.5° | 2211.2 | 2218.5 | 2201.6 | 2184.6 | 2173.7 | 2168.9 | 2177.3 | 2197.9 | 2216.0 | 2234.3 | 2227.0 |
| 35° | 2314.1 | 2319.1 | 2303.3 | 2271.8 | 2252.4 | 2252.4 | 2259.7 | 2286.4 | 2315.4 | 2338.4 | 2329.9 |
| 37.5° | 2459.5 | 2465.5 | 2437.7 | 2400.1 | 2371.1 | 2371.1 | 2380.8 | 2408.6 | 2452.2 | 2484.9 | 2472.8 |
| 40° | 2636.3 | 2644.8 | 2609.6 | 2570.9 | 2543.0 | 2538.2 | 2550.3 | 2581.8 | 2623.0 | 2664.2 | 2650.9 |
| 42.5° | 2849.4 | 2859.1 | 2813.1 | 2779.2 | 2757.4 | 2757.4 | 2763.5 | 2792.5 | 2830.0 | 2881.0 | 2877.3 |
| 45° | 3121.9 | 3138.9 | 3075.9 | 3042.0 | 3021.4 | 3026.2 | 3029.9 | 3055.3 | 3089.2 | 3147.4 | 3144.9 |
| 47.5° | 3446.5 | 3463.4 | 3396.7 | 3361.7 | 3358.0 | 3381.1 | 3366.5 | 3384.7 | 3402.9 | 3469.4 | 3450.0 |
| 50° | 3814.5 | 3843.6 | 3797.6 | 3795.2 | 3802.4 | 3844.9 | 3811.0 | 3820.7 | 3800.1 | 3842.4 | 3817.0 |
| 52.5° | 4265.0 | 4307.5 | 4299.0 | 4313.5 | 4394.7 | 4481.8 | 4404.3 | 4370.4 | 4292.9 | 4306.2 | 4261.4 |
| 55° | 4811.2 | 4875.4 | 4887.5 | 4974.7 | 5158.8 | 5336.8 | 5172.0 | 5035.2 | 4870.6 | 4840.3 | 4793.1 |
| 57.5° | 5432.5 | 5483.3 | 5541.5 | 5719.5 | 6063.4 | 6379.4 | 6063.4 | 5760.6 | 5501.5 | 5439.7 | 5396.1 |
| 60° | 6100.9 | 6163.8 | 6219.6 | 6482.4 | 6993.4 | 7437.8 | 6983.7 | 6503.0 | 6160.2 | 6076.7 | 6004.0 |
| 62.5° | 6819.0 | 6900.2 | 6938.9 | 7230.8 | 7826.6 | 8356.9 | 7835.0 | 7252.6 | 6872.3 | 6782.7 | 6710.1 |
| 65° | 7508.1 | 7574.6 | 7618.3 | 7929.5 | 8498.7 | 9030.2 | 8537.4 | 7963.4 | 7572.3 | 7454.8 | 7396.7 |
| 67.5° | 7828.9 | 7865.3 | 7971.8 | 8324.2 | 8924.9 | 9531.6 | 9026.7 | 8361.8 | 7924.7 | 7718.8 | 7721.2 |
| 70° | 7359.1 | 7285.3 | 7541.9 | 8106.3 | 8975.8 | 9839.2 | 9092.1 | 8089.3 | 7554.0 | 7219.9 | 7299.7 |
| 72.5° | 5686.8 | 5559.6 | 6005.3 | 6970.4 | 8394.5 | 9643.0 | 8452.7 | 7024.9 | 6282.5 | 5604.4 | 5772.7 |
| 75° | 3094.1 | 2950.0 | 3565.2 | 4785.8 | 6694.3 | 8358.2 | 6848.1 | 4922.7 | 3969.6 | 3071.0 | 3270.9 |
| 77.5° | 873.1 | 818.7 | 1315.1 | 2315.4 | 4026.5 | 5868.4 | 4181.5 | 2366.2 | 1559.7 | 925.2 | 1028.1 |
| 80° | 267.6 | 259.1 | 351.2 | 697.5 | 1709.9 | 2810.7 | 1643.3 | 706.0 | 446.9 | 282.2 | 297.9 |
| 82.5° | 158.7 | 145.3 | 174.4 | 254.3 | 435.9 | 882.8 | 423.8 | 265.2 | 213.1 | 142.9 | 155.0 |
| 85° | 90.8 | 84.8 | 102.9 | 123.5 | 146.6 | 187.7 | 122.3 | 126.0 | 113.9 | 76.3 | 79.9 |
| 87.5° | 37.5 | 33.9 | 40.0 | 38.7 | 33.9 | 43.6 | 32.7 | 38.7 | 46.0 | 30.2 | 27.9 |
| 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)