

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: P963932

Luminaire Tested: **NVN-SB3B-722-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963932
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-SB3B-722-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14469.9 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

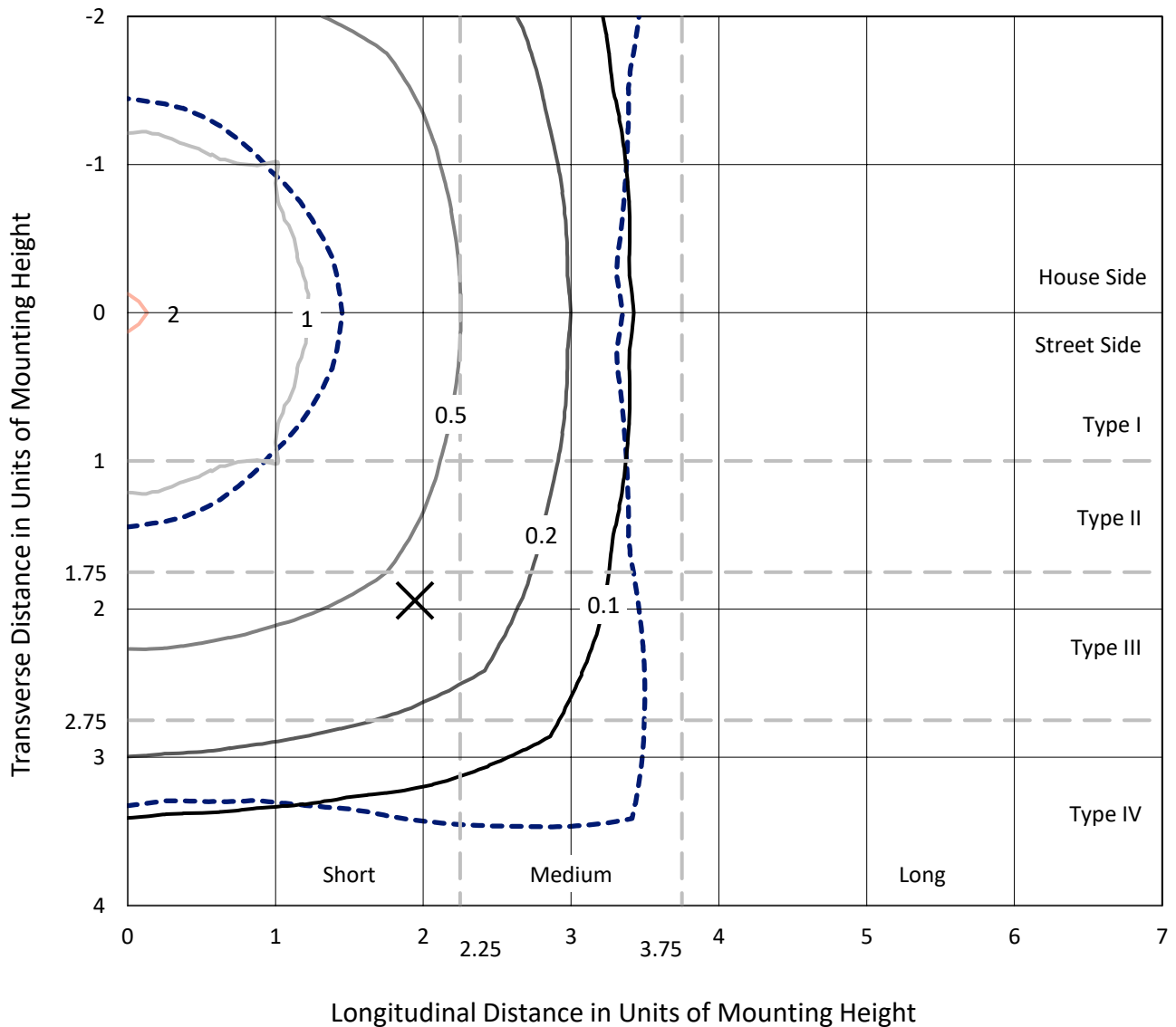
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

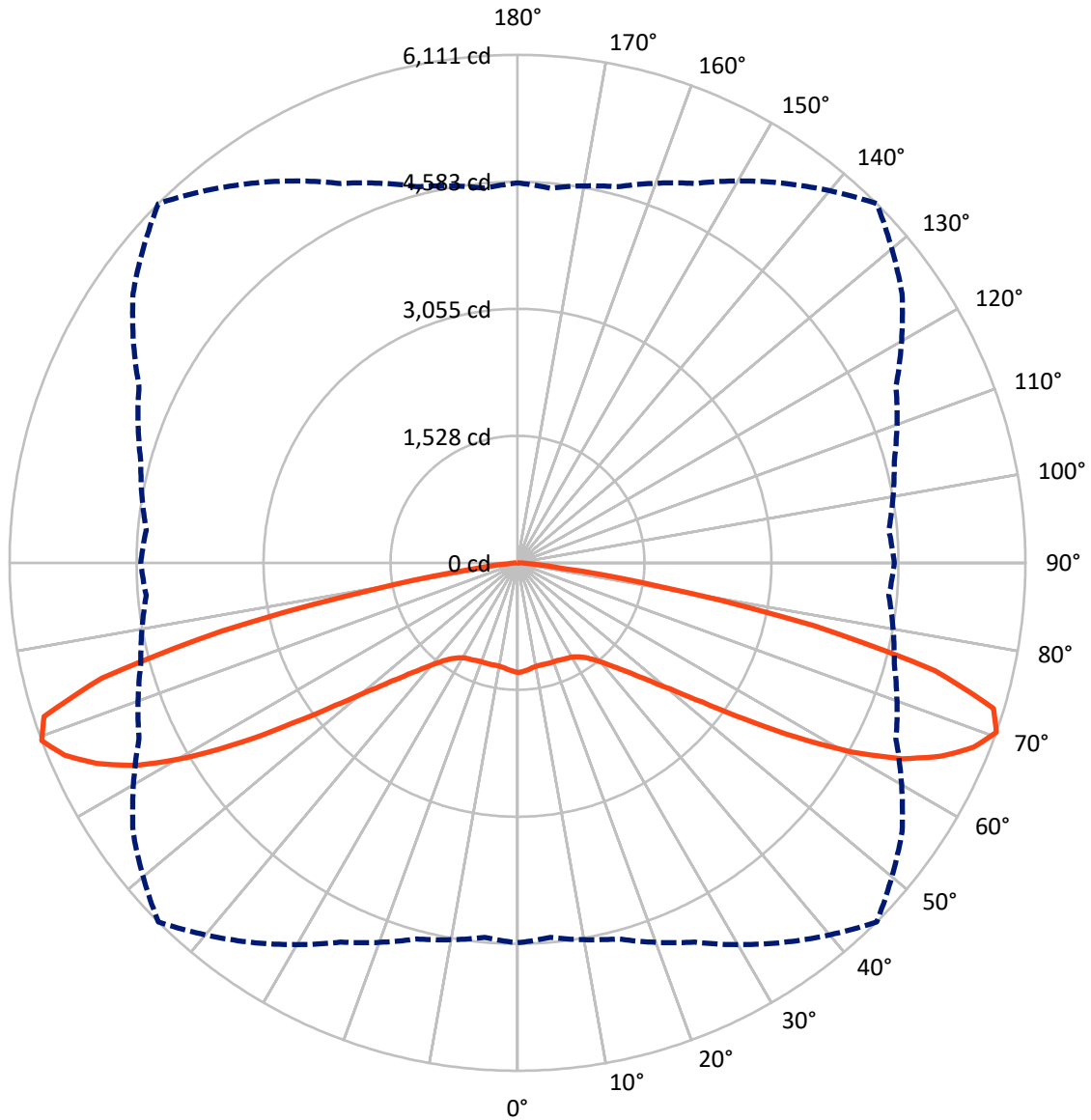
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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 | 7235.0 | 0.0 | 7235.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 7235.0 | 0.0 | 7235.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 14469.9 | 0.0 | 14469.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 122.8 | 0.8 |
| 10°-20° | 360.5 | 2.5 |
| 20°-30° | 600.0 | 4.1 |
| 30°-40° | 907.3 | 6.3 |
| 40°-50° | 1507.8 | 10.4 |
| 50°-60° | 2845.1 | 19.7 |
| 60°-70° | 4804.1 | 33.2 |
| 70°-80° | 3156.8 | 21.8 |
| 80°-90° | 165.4 | 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° | 14469.9 | 100.0 |
| 0°-180° | 14469.9 | 100.0 |

Coefficient of Utilization



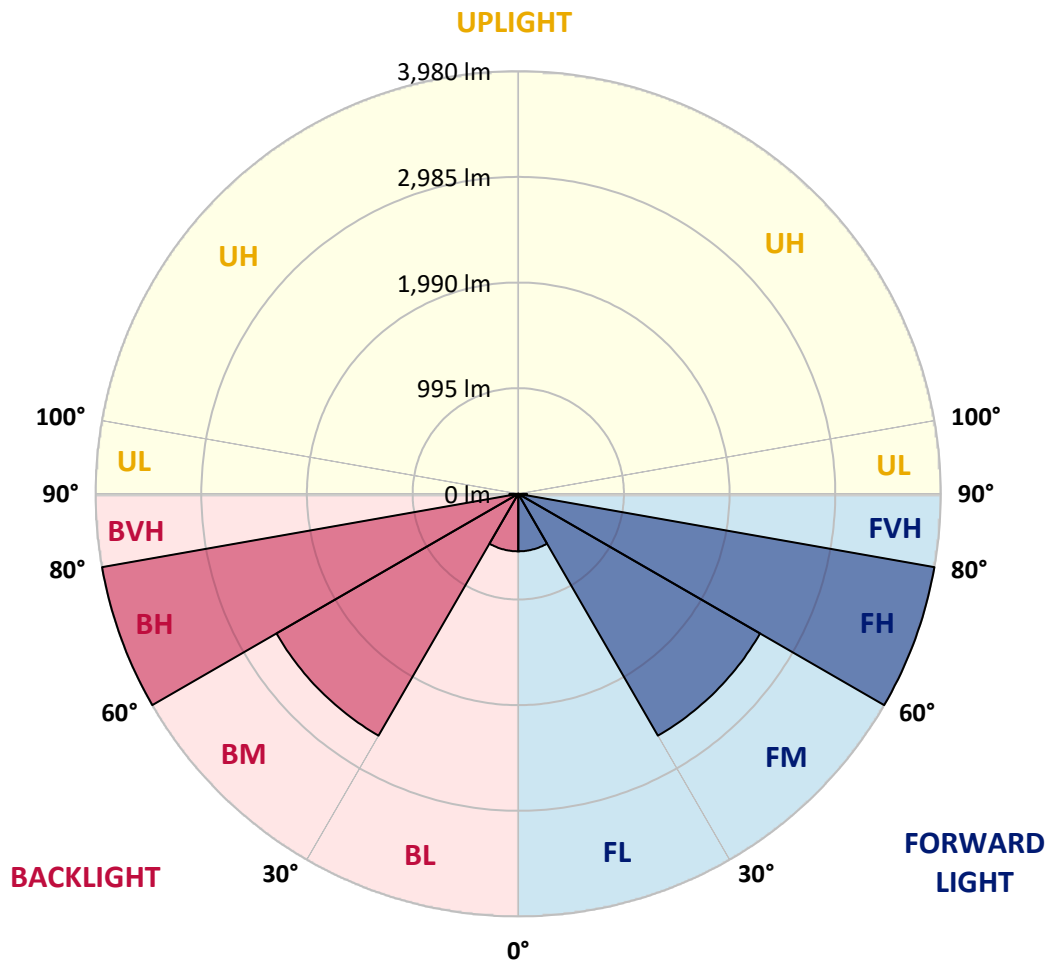
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 541.6 | 3.7 | | | |
| FM (30°-60°) | 2630.1 | 18.2 | | | |
| FH (60°-80°) | 3980.5 | 27.5 | | | G2/5000 |
| FVH (80°-90°) | 82.7 | 0.6 | | | G1/100 |
| BL (0°-30°) | 541.6 | 3.7 | B2/1000 | | |
| BM (30°-60°) | 2630.1 | 18.2 | B3/5000 | | |
| BH (60°-80°) | 3980.5 | 27.5 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 82.7 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1320.0 | 1320.0 | 1320.0 | 1320.0 | 1320.0 | 1320.0 | 1320.0 | 1320.0 | 1320.0 | 1320.0 | 1320.0 |
| 2.5° | 1311.7 | 1315.5 | 1313.9 | 1310.9 | 1310.9 | 1308.6 | 1310.9 | 1312.4 | 1314.7 | 1316.2 | 1315.5 |
| 5° | 1294.4 | 1297.3 | 1296.6 | 1294.4 | 1295.1 | 1292.8 | 1294.4 | 1296.6 | 1298.2 | 1298.9 | 1298.9 |
| 7.5° | 1279.3 | 1282.4 | 1280.8 | 1277.0 | 1277.0 | 1274.8 | 1275.6 | 1277.9 | 1280.1 | 1280.8 | 1280.8 |
| 10° | 1275.6 | 1278.6 | 1274.1 | 1268.0 | 1265.8 | 1262.8 | 1263.5 | 1265.8 | 1270.3 | 1272.5 | 1272.5 |
| 12.5° | 1277.0 | 1279.3 | 1274.8 | 1265.8 | 1263.5 | 1260.5 | 1260.5 | 1262.8 | 1268.8 | 1271.8 | 1272.5 |
| 15° | 1281.6 | 1283.8 | 1277.0 | 1267.3 | 1265.1 | 1262.8 | 1262.1 | 1265.1 | 1271.8 | 1277.0 | 1277.9 |
| 17.5° | 1289.9 | 1292.1 | 1281.6 | 1268.0 | 1265.1 | 1265.8 | 1265.1 | 1267.3 | 1277.9 | 1287.6 | 1287.6 |
| 20° | 1297.3 | 1298.9 | 1284.6 | 1268.0 | 1265.1 | 1265.8 | 1265.1 | 1269.6 | 1283.1 | 1296.6 | 1297.3 |
| 22.5° | 1299.6 | 1301.1 | 1287.6 | 1273.4 | 1271.1 | 1271.8 | 1271.1 | 1275.6 | 1288.3 | 1301.9 | 1301.9 |
| 25° | 1300.4 | 1302.7 | 1292.1 | 1280.8 | 1284.6 | 1286.1 | 1284.6 | 1285.4 | 1295.1 | 1307.2 | 1306.4 |
| 27.5° | 1311.7 | 1314.7 | 1304.9 | 1295.1 | 1297.3 | 1296.6 | 1298.9 | 1301.1 | 1308.6 | 1320.7 | 1317.7 |
| 30° | 1335.0 | 1337.2 | 1329.0 | 1319.2 | 1317.7 | 1312.4 | 1319.2 | 1326.8 | 1335.0 | 1345.5 | 1343.3 |
| 32.5° | 1373.4 | 1377.9 | 1367.4 | 1356.8 | 1350.0 | 1347.1 | 1352.3 | 1365.1 | 1376.4 | 1387.6 | 1383.1 |
| 35° | 1437.3 | 1440.3 | 1430.5 | 1410.9 | 1398.9 | 1398.9 | 1403.4 | 1419.9 | 1438.1 | 1452.3 | 1447.1 |
| 37.5° | 1527.6 | 1531.2 | 1514.0 | 1490.7 | 1472.6 | 1472.6 | 1478.7 | 1496.0 | 1523.0 | 1543.3 | 1535.8 |
| 40° | 1637.3 | 1642.6 | 1620.8 | 1596.7 | 1579.4 | 1576.4 | 1583.9 | 1603.5 | 1629.0 | 1654.7 | 1646.4 |
| 42.5° | 1769.7 | 1775.7 | 1747.1 | 1726.1 | 1712.6 | 1712.6 | 1716.3 | 1734.4 | 1757.7 | 1789.2 | 1787.0 |
| 45° | 1938.9 | 1949.4 | 1910.4 | 1889.3 | 1876.5 | 1879.5 | 1881.8 | 1897.6 | 1918.6 | 1954.8 | 1953.2 |
| 47.5° | 2140.5 | 2151.1 | 2109.7 | 2087.8 | 2085.6 | 2099.9 | 2090.9 | 2102.2 | 2113.4 | 2154.8 | 2142.8 |
| 50° | 2369.2 | 2387.2 | 2358.6 | 2357.1 | 2361.6 | 2387.9 | 2366.9 | 2372.9 | 2360.1 | 2386.4 | 2370.6 |
| 52.5° | 2648.9 | 2675.2 | 2670.0 | 2679.0 | 2729.4 | 2783.6 | 2735.4 | 2714.4 | 2666.2 | 2674.5 | 2646.7 |
| 55° | 2988.1 | 3028.0 | 3035.5 | 3089.7 | 3203.9 | 3314.5 | 3212.2 | 3127.3 | 3025.0 | 3006.2 | 2976.8 |
| 57.5° | 3374.0 | 3405.6 | 3441.6 | 3552.2 | 3765.8 | 3962.1 | 3765.8 | 3577.8 | 3416.8 | 3378.5 | 3351.3 |
| 60° | 3789.1 | 3828.3 | 3862.8 | 4026.0 | 4343.4 | 4619.5 | 4337.4 | 4038.8 | 3826.0 | 3774.0 | 3729.0 |
| 62.5° | 4235.1 | 4285.5 | 4309.6 | 4490.8 | 4860.9 | 5190.3 | 4866.1 | 4504.4 | 4268.2 | 4212.5 | 4167.4 |
| 65° | 4663.0 | 4704.4 | 4731.5 | 4924.8 | 5278.3 | 5608.5 | 5302.3 | 4945.8 | 4702.9 | 4629.9 | 4593.8 |
| 67.5° | 4862.4 | 4884.9 | 4951.2 | 5170.0 | 5543.0 | 5919.9 | 5606.2 | 5193.3 | 4921.7 | 4793.9 | 4795.5 |
| 70° | 4570.6 | 4524.7 | 4684.1 | 5034.6 | 5574.7 | 6110.8 | 5646.8 | 5024.0 | 4691.6 | 4484.1 | 4533.7 |
| 72.5° | 3531.9 | 3452.9 | 3729.7 | 4329.1 | 5213.6 | 5989.1 | 5249.7 | 4363.0 | 3902.0 | 3480.8 | 3585.2 |
| 75° | 1921.7 | 1832.1 | 2214.2 | 2972.3 | 4157.6 | 5191.0 | 4253.1 | 3057.3 | 2465.4 | 1907.3 | 2031.4 |
| 77.5° | 542.2 | 508.4 | 816.8 | 1438.1 | 2500.8 | 3644.7 | 2597.0 | 1469.6 | 968.7 | 574.6 | 638.6 |
| 80° | 166.3 | 160.9 | 218.1 | 433.2 | 1062.0 | 1745.7 | 1020.6 | 438.5 | 277.6 | 175.3 | 185.0 |
| 82.5° | 98.5 | 90.3 | 108.3 | 158.0 | 270.8 | 548.3 | 263.2 | 164.7 | 132.3 | 88.8 | 96.2 |
| 85° | 56.4 | 52.7 | 64.0 | 76.7 | 91.0 | 116.5 | 76.0 | 78.2 | 70.7 | 47.4 | 49.6 |
| 87.5° | 23.3 | 21.0 | 24.8 | 24.1 | 21.0 | 27.1 | 20.3 | 24.1 | 28.6 | 18.8 | 17.3 |
| 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)