

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: P959750

Luminaire Tested: **NVN-SB1B-727-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P959750  
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-SB1B-727-U-RW  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5514.5 lumens  
Efficiency: N/A  
Efficacy: 138.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2

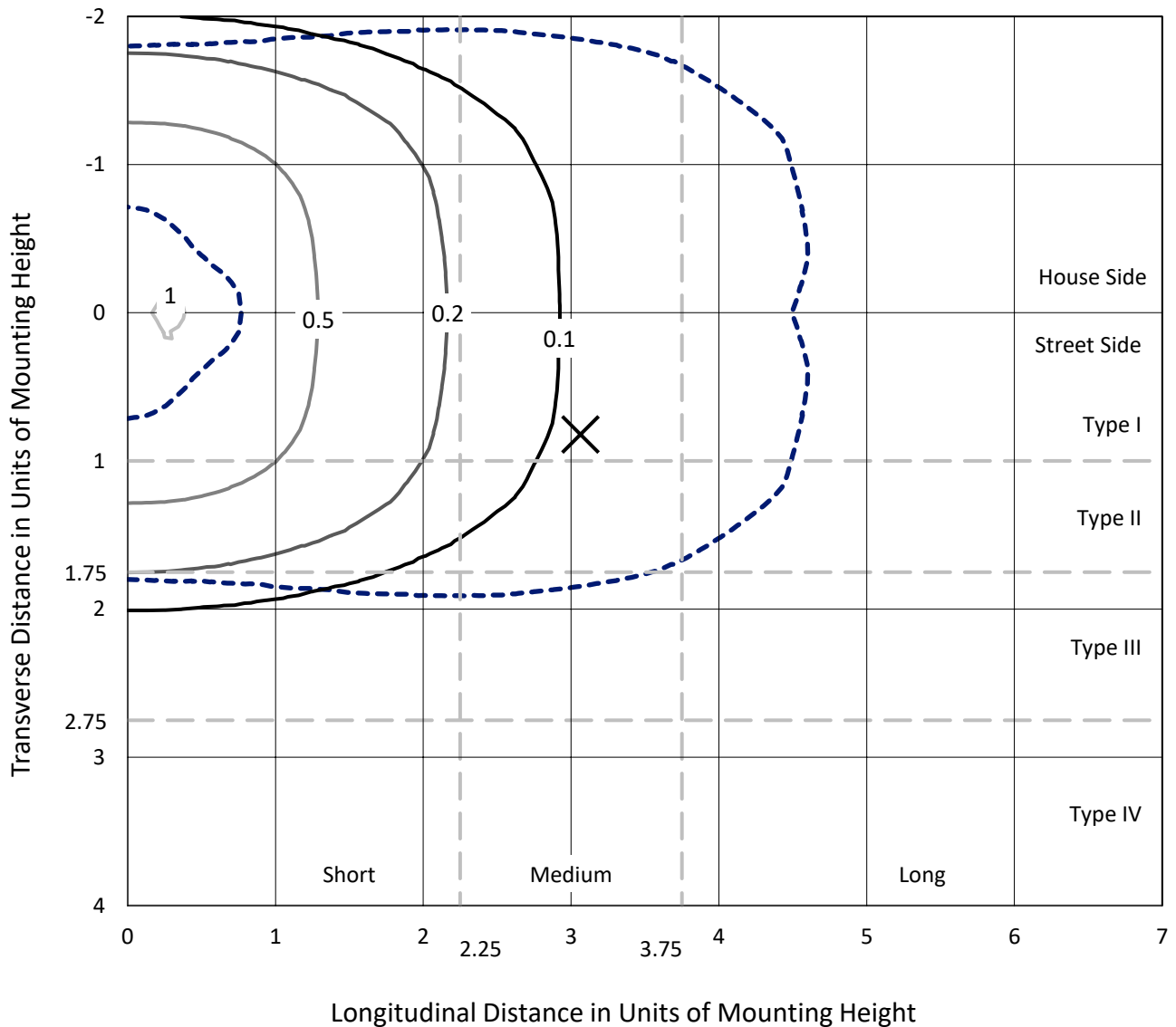
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

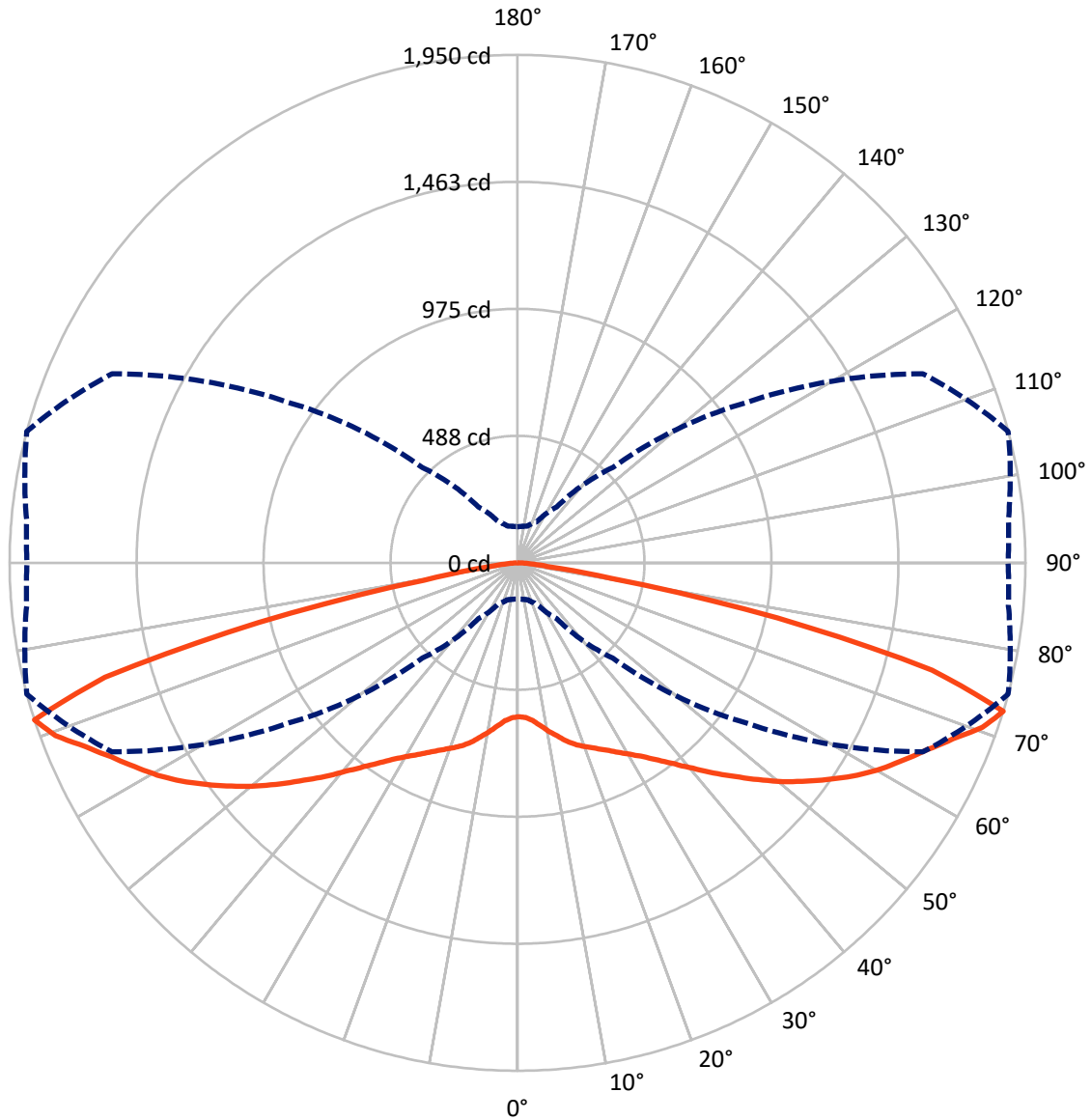
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2757.2   | 0.0    | 2757.2 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2757.2   | 0.0    | 2757.2 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5514.5   | 0.0    | 5514.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 57.9   | 1.0       |
| 10°-20°   | 190.8  | 3.5       |
| 20°-30°   | 368.8  | 6.7       |
| 30°-40°   | 622.7  | 11.3      |
| 40°-50°   | 987.5  | 17.9      |
| 50°-60°   | 1322.2 | 24.0      |
| 60°-70°   | 1258.3 | 22.8      |
| 70°-80°   | 656.6  | 11.9      |
| 80°-90°   | 49.7   | 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°    | 5514.5 | 100.0     |
| 0°-180°   | 5514.5 | 100.0     |

**Coefficient of Utilization**

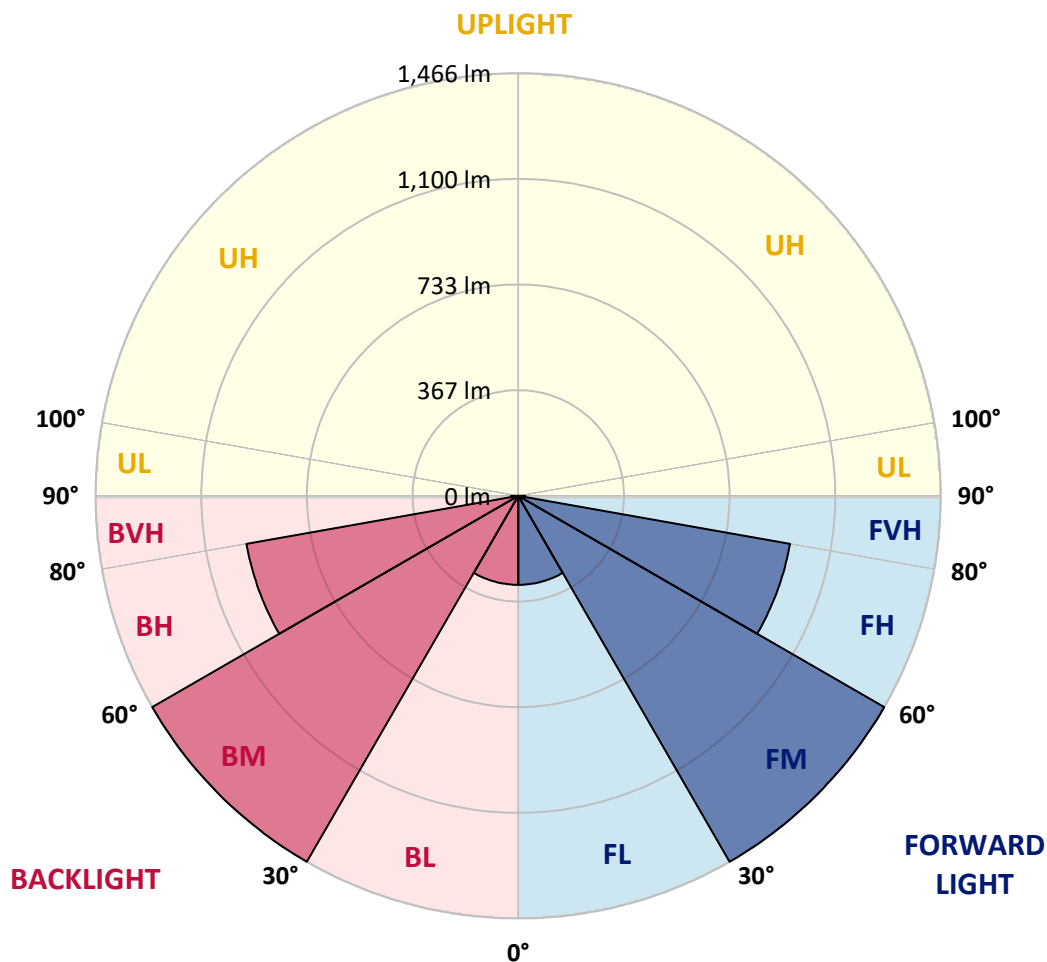


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 308.7  | 5.6       |                         |      |         |
| FM (30°-60°)   | 1466.2 | 26.6      |                         |      |         |
| FH (60°-80°)   | 957.4  | 17.4      |                         |      | G1/1800 |
| FVH (80°-90°)  | 24.9   | 0.5       |                         |      | G1/100  |
| BL (0°-30°)    | 308.7  | 5.6       | B1/500                  |      |         |
| BM (30°-60°)   | 1466.2 | 26.6      | B2/2500                 |      |         |
| BH (60°-80°)   | 957.4  | 17.4      | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 24.9   | 0.5       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**  
 Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 590.7  | 590.7  | 590.7  | 590.7  | 590.7  | 590.7  | 590.7  | 590.7  | 590.7  | 590.7  | 590.7  |
| 2.5°  | 590.7  | 590.1  | 590.7  | 591.2  | 591.0  | 591.0  | 592.3  | 593.3  | 594.9  | 594.6  | 594.4  |
| 5°    | 586.7  | 586.5  | 588.8  | 591.2  | 593.3  | 596.7  | 600.9  | 603.9  | 607.9  | 608.7  | 608.7  |
| 7.5°  | 584.8  | 583.9  | 587.8  | 592.3  | 598.6  | 607.0  | 615.2  | 623.6  | 630.4  | 632.6  | 633.2  |
| 10°   | 586.2  | 586.5  | 591.8  | 600.2  | 610.1  | 622.0  | 633.4  | 647.9  | 657.4  | 659.7  | 661.9  |
| 12.5° | 592.7  | 592.1  | 601.2  | 614.6  | 628.1  | 643.1  | 656.6  | 672.4  | 682.8  | 688.1  | 690.3  |
| 15°   | 604.5  | 603.4  | 616.0  | 636.0  | 655.7  | 673.2  | 684.2  | 699.0  | 711.2  | 718.0  | 720.5  |
| 17.5° | 618.6  | 619.1  | 635.7  | 661.6  | 687.6  | 707.2  | 717.7  | 725.3  | 734.6  | 740.5  | 743.3  |
| 20°   | 643.4  | 644.5  | 663.1  | 693.7  | 723.3  | 745.8  | 754.3  | 751.4  | 754.0  | 758.5  | 761.9  |
| 22.5° | 676.6  | 677.1  | 698.0  | 731.2  | 762.2  | 787.0  | 792.5  | 781.0  | 774.0  | 777.1  | 779.3  |
| 25°   | 715.1  | 718.8  | 739.6  | 773.7  | 805.5  | 829.2  | 831.7  | 814.3  | 796.8  | 797.7  | 799.1  |
| 27.5° | 762.2  | 765.6  | 786.7  | 820.4  | 852.8  | 873.4  | 873.1  | 849.7  | 824.1  | 817.6  | 819.6  |
| 30°   | 813.1  | 816.8  | 838.4  | 873.4  | 903.5  | 921.6  | 917.6  | 889.7  | 853.1  | 841.0  | 842.4  |
| 32.5° | 873.7  | 876.0  | 897.9  | 932.7  | 960.6  | 975.0  | 966.9  | 932.5  | 886.9  | 873.1  | 876.5  |
| 35°   | 946.9  | 950.3  | 966.6  | 999.5  | 1024.0 | 1035.9 | 1022.0 | 981.5  | 930.3  | 914.8  | 917.1  |
| 37.5° | 1030.5 | 1028.3 | 1046.8 | 1076.1 | 1096.3 | 1103.7 | 1084.9 | 1036.7 | 979.8  | 961.6  | 964.9  |
| 40°   | 1117.8 | 1116.6 | 1136.9 | 1165.1 | 1176.1 | 1180.6 | 1152.7 | 1100.0 | 1037.0 | 1017.2 | 1023.8 |
| 42.5° | 1196.9 | 1196.1 | 1223.3 | 1254.6 | 1267.8 | 1262.8 | 1227.5 | 1167.4 | 1103.1 | 1080.7 | 1086.2 |
| 45°   | 1260.2 | 1259.1 | 1292.6 | 1336.5 | 1362.4 | 1354.0 | 1306.7 | 1241.7 | 1170.1 | 1146.8 | 1152.1 |
| 47.5° | 1308.9 | 1309.5 | 1345.5 | 1399.8 | 1445.2 | 1448.3 | 1387.5 | 1317.4 | 1243.9 | 1217.4 | 1225.3 |
| 50°   | 1344.2 | 1345.8 | 1384.4 | 1444.6 | 1506.6 | 1533.9 | 1470.0 | 1395.1 | 1320.2 | 1290.4 | 1299.4 |
| 52.5° | 1352.9 | 1356.0 | 1402.4 | 1473.1 | 1546.0 | 1598.1 | 1553.9 | 1469.7 | 1392.6 | 1364.2 | 1371.4 |
| 55°   | 1306.4 | 1312.6 | 1371.4 | 1470.9 | 1570.2 | 1640.3 | 1627.7 | 1545.5 | 1465.4 | 1436.2 | 1444.3 |
| 57.5° | 1199.7 | 1208.5 | 1277.1 | 1406.9 | 1564.9 | 1669.3 | 1684.8 | 1618.1 | 1538.4 | 1510.2 | 1516.7 |
| 60°   | 1050.2 | 1060.6 | 1126.5 | 1268.1 | 1489.4 | 1680.1 | 1725.1 | 1688.8 | 1605.5 | 1578.1 | 1584.0 |
| 62.5° | 824.7  | 838.1  | 917.1  | 1083.1 | 1330.0 | 1630.2 | 1759.4 | 1752.6 | 1665.7 | 1631.6 | 1635.6 |
| 65°   | 529.0  | 543.4  | 626.5  | 822.7  | 1117.5 | 1477.6 | 1770.2 | 1814.9 | 1729.3 | 1681.7 | 1687.7 |
| 67.5° | 319.0  | 325.4  | 366.5  | 498.7  | 816.8  | 1247.5 | 1679.5 | 1883.8 | 1803.6 | 1744.6 | 1749.1 |
| 70°   | 204.1  | 207.8  | 232.3  | 292.8  | 461.8  | 910.3  | 1454.8 | 1896.9 | 1893.7 | 1809.0 | 1808.4 |
| 72.5° | 138.5  | 139.6  | 146.2  | 173.4  | 261.3  | 517.2  | 1073.0 | 1717.2 | 1950.1 | 1892.0 | 1883.0 |
| 75°   | 101.4  | 107.5  | 118.0  | 122.8  | 148.4  | 258.5  | 614.9  | 1206.4 | 1643.5 | 1668.8 | 1607.4 |
| 77.5° | 75.4   | 75.7   | 90.1   | 95.7   | 105.9  | 137.7  | 260.1  | 673.5  | 1020.4 | 1071.3 | 955.6  |
| 80°   | 64.0   | 60.6   | 60.3   | 77.2   | 79.6   | 85.9   | 116.2  | 232.6  | 365.4  | 221.6  | 167.5  |
| 82.5° | 53.2   | 49.5   | 44.8   | 60.3   | 54.3   | 52.7   | 50.4   | 94.6   | 116.2  | 57.2   | 48.7   |
| 85°   | 37.2   | 35.5   | 33.8   | 39.5   | 31.0   | 26.4   | 24.2   | 44.2   | 49.0   | 24.2   | 21.4   |
| 87.5° | 16.1   | 16.6   | 16.9   | 17.4   | 12.9   | 9.3    | 9.3    | 12.4   | 12.4   | 9.5    | 7.1    |
| 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)