

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: P961390

Luminaire Tested: **NVN-SB2A-735-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P961390  
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-SB2A-735-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

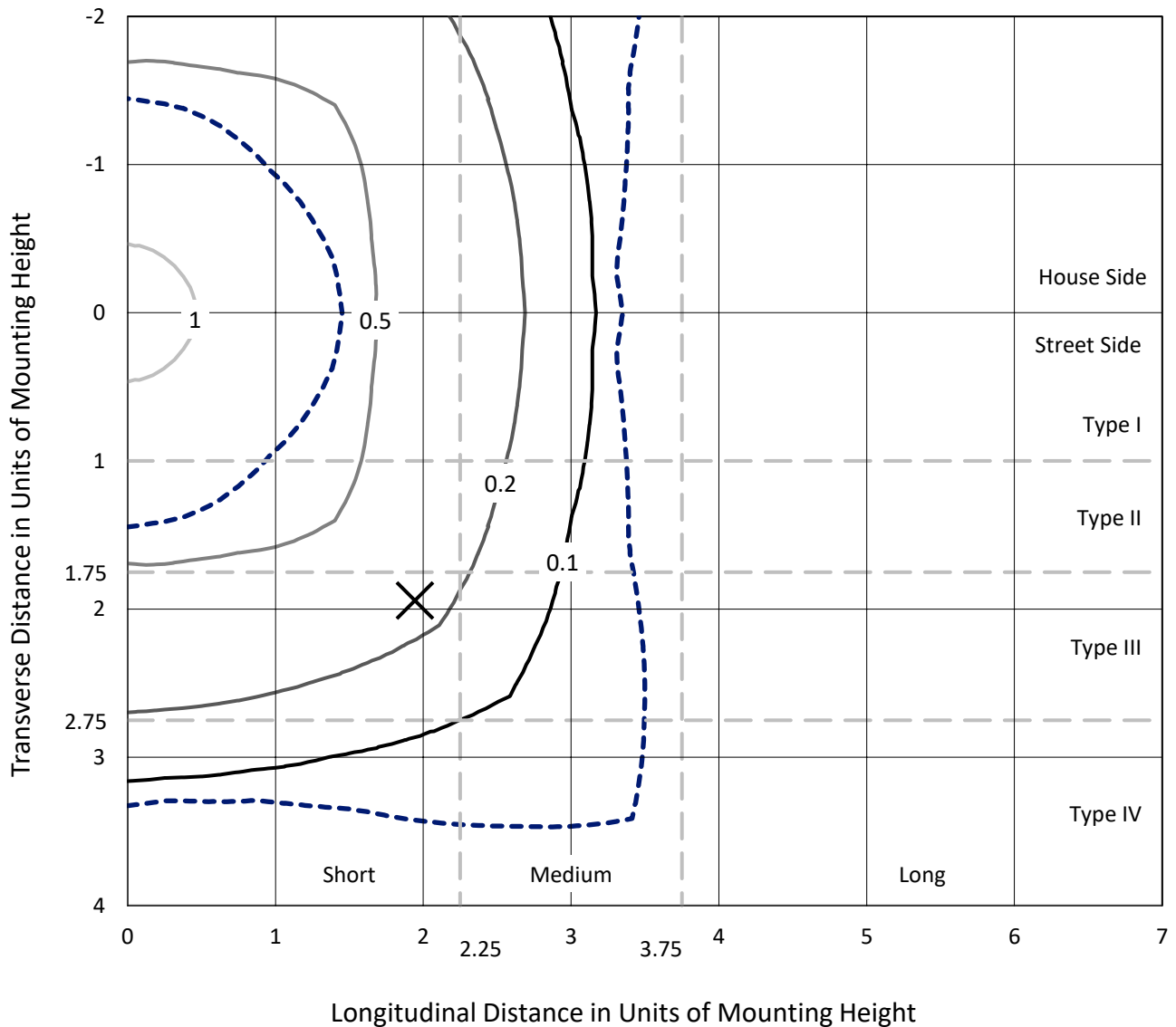
Lumens per Lamp: N/A  
Luminaire Lumens: 9300.8 lumens  
Efficiency: N/A  
Efficacy: 162.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 57.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

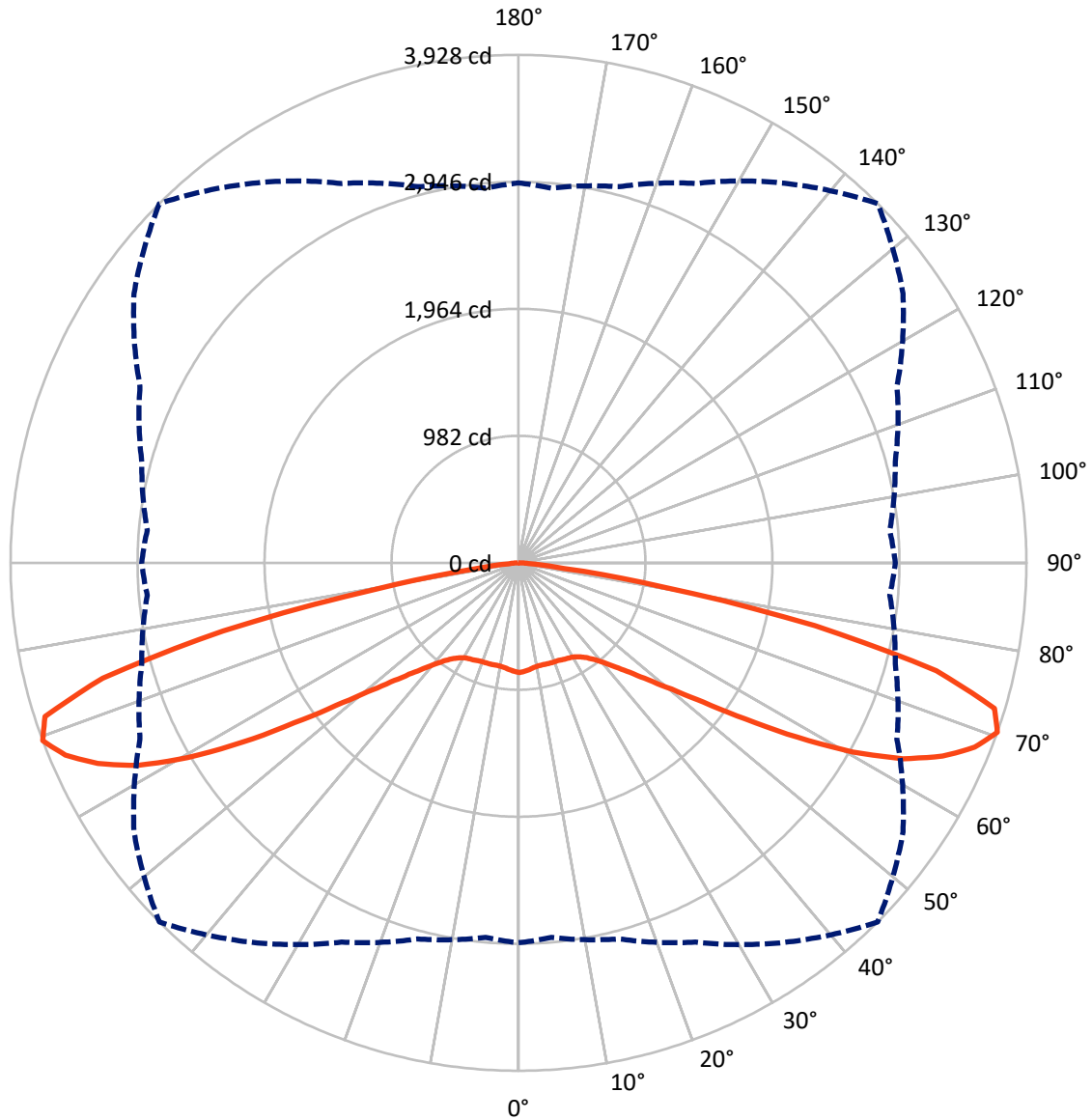
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4650.4   | 0.0    | 4650.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4650.4   | 0.0    | 4650.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 9300.8   | 0.0    | 9300.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 78.9   | 0.8       |
| 10°-20°   | 231.7  | 2.5       |
| 20°-30°   | 385.6  | 4.1       |
| 30°-40°   | 583.2  | 6.3       |
| 40°-50°   | 969.2  | 10.4      |
| 50°-60°   | 1828.8 | 19.7      |
| 60°-70°   | 3088.0 | 33.2      |
| 70°-80°   | 2029.1 | 21.8      |
| 80°-90°   | 106.3  | 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°    | 9300.8 | 100.0     |
| 0°-180°   | 9300.8 | 100.0     |

**Coefficient of Utilization**



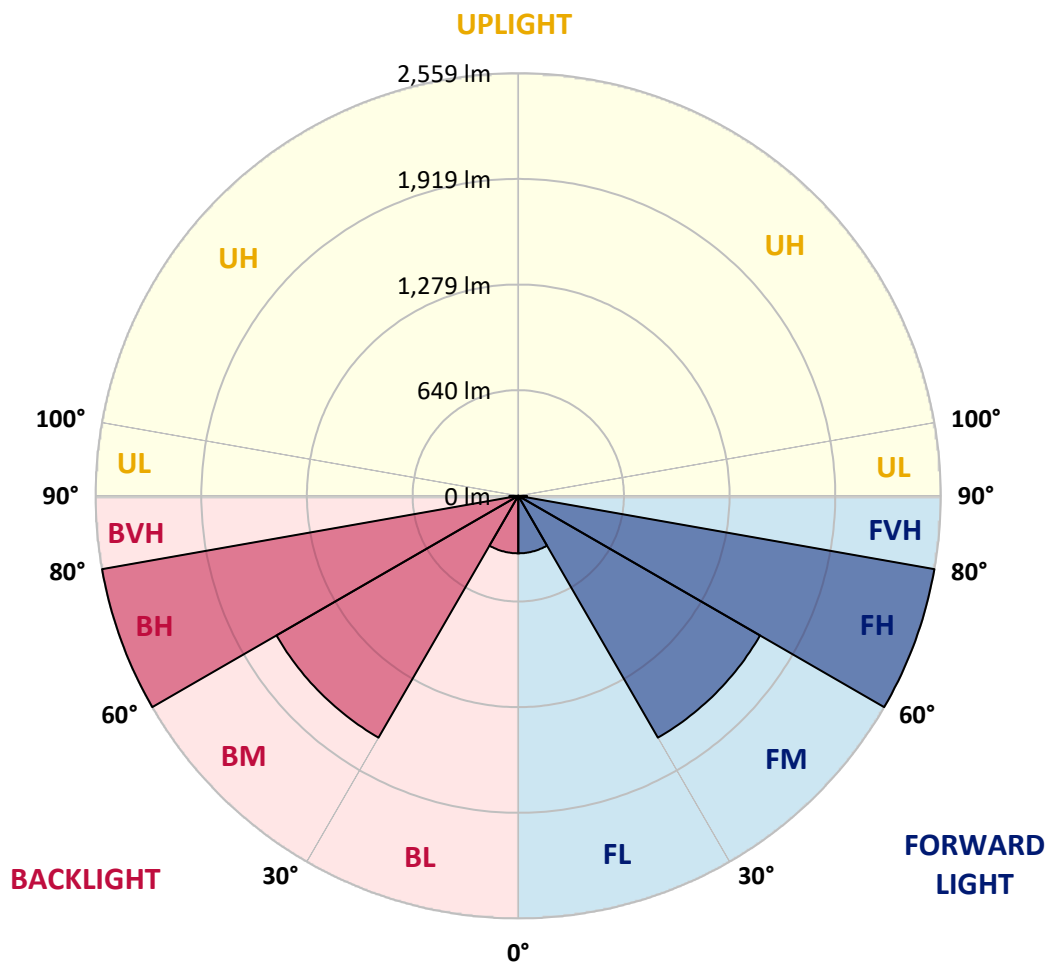
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 348.2  | 3.7       |                         |      |         |
| FM (30°-60°)   | 1690.6 | 18.2      |                         |      |         |
| FH (60°-80°)   | 2558.5 | 27.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 53.1   | 0.6       |                         |      | G1/100  |
| BL (0°-30°)    | 348.2  | 3.7       | B1/500                  |      |         |
| BM (30°-60°)   | 1690.6 | 18.2      | B2/2500                 |      |         |
| BH (60°-80°)   | 2558.5 | 27.5      | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 53.1   | 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°    | 848.4  | 848.4  | 848.4  | 848.4  | 848.4  | 848.4  | 848.4  | 848.4  | 848.4  | 848.4  | 848.4  |
| 2.5°  | 843.1  | 845.5  | 844.6  | 842.7  | 842.7  | 841.2  | 842.7  | 843.6  | 845.0  | 846.0  | 845.5  |
| 5°    | 832.0  | 833.9  | 833.4  | 832.0  | 832.5  | 831.1  | 832.0  | 833.4  | 834.5  | 834.9  | 834.9  |
| 7.5°  | 822.4  | 824.2  | 823.3  | 820.8  | 820.8  | 819.4  | 819.9  | 821.3  | 822.8  | 823.3  | 823.3  |
| 10°   | 819.9  | 821.8  | 819.0  | 815.1  | 813.6  | 811.7  | 812.2  | 813.6  | 816.5  | 817.9  | 817.9  |
| 12.5° | 820.8  | 822.4  | 819.4  | 813.6  | 812.2  | 810.3  | 810.3  | 811.7  | 815.6  | 817.4  | 817.9  |
| 15°   | 823.8  | 825.2  | 820.8  | 814.6  | 813.1  | 811.7  | 811.2  | 813.1  | 817.4  | 820.8  | 821.3  |
| 17.5° | 829.1  | 830.6  | 823.8  | 815.1  | 813.1  | 813.6  | 813.1  | 814.6  | 821.3  | 827.7  | 827.7  |
| 20°   | 833.9  | 834.9  | 825.7  | 815.1  | 813.1  | 813.6  | 813.1  | 816.0  | 824.7  | 833.4  | 833.9  |
| 22.5° | 835.4  | 836.3  | 827.7  | 818.5  | 817.0  | 817.4  | 817.0  | 819.9  | 828.1  | 836.8  | 836.8  |
| 25°   | 835.9  | 837.3  | 830.6  | 823.3  | 825.7  | 826.7  | 825.7  | 826.2  | 832.5  | 840.2  | 839.7  |
| 27.5° | 843.1  | 845.0  | 838.8  | 832.5  | 833.9  | 833.4  | 834.9  | 836.3  | 841.2  | 848.9  | 847.0  |
| 30°   | 858.1  | 859.6  | 854.2  | 848.0  | 847.0  | 843.6  | 848.0  | 852.8  | 858.1  | 864.9  | 863.5  |
| 32.5° | 882.7  | 885.6  | 878.8  | 872.1  | 867.8  | 865.8  | 869.2  | 877.4  | 884.7  | 892.0  | 889.0  |
| 35°   | 923.8  | 925.8  | 919.5  | 906.9  | 899.2  | 899.2  | 902.1  | 912.8  | 924.3  | 933.5  | 930.1  |
| 37.5° | 981.8  | 984.3  | 973.1  | 958.2  | 946.6  | 946.6  | 950.4  | 961.6  | 979.0  | 992.0  | 987.2  |
| 40°   | 1052.5 | 1055.9 | 1041.8 | 1026.3 | 1015.2 | 1013.3 | 1018.1 | 1030.6 | 1047.1 | 1063.5 | 1058.2 |
| 42.5° | 1137.5 | 1141.3 | 1123.0 | 1109.5 | 1100.7 | 1100.7 | 1103.2 | 1114.8 | 1129.8 | 1150.0 | 1148.6 |
| 45°   | 1246.3 | 1253.1 | 1227.9 | 1214.4 | 1206.1 | 1208.1 | 1209.5 | 1219.8 | 1233.3 | 1256.4 | 1255.5 |
| 47.5° | 1375.9 | 1382.6 | 1356.1 | 1342.0 | 1340.6 | 1349.7 | 1344.0 | 1351.2 | 1358.4 | 1385.1 | 1377.3 |
| 50°   | 1522.8 | 1534.4 | 1516.1 | 1515.1 | 1518.0 | 1534.9 | 1521.4 | 1525.2 | 1517.0 | 1533.9 | 1523.8 |
| 52.5° | 1702.6 | 1719.5 | 1716.2 | 1722.0 | 1754.4 | 1789.1 | 1758.3 | 1744.8 | 1713.8 | 1719.1 | 1701.2 |
| 55°   | 1920.6 | 1946.3 | 1951.1 | 1985.9 | 2059.4 | 2130.5 | 2064.8 | 2010.1 | 1944.3 | 1932.3 | 1913.5 |
| 57.5° | 2168.7 | 2189.0 | 2212.2 | 2283.3 | 2420.5 | 2546.7 | 2420.5 | 2299.7 | 2196.3 | 2171.6 | 2154.1 |
| 60°   | 2435.5 | 2460.7 | 2483.0 | 2587.8 | 2791.8 | 2969.2 | 2788.0 | 2596.0 | 2459.2 | 2425.9 | 2396.9 |
| 62.5° | 2722.2 | 2754.6 | 2770.1 | 2886.6 | 3124.4 | 3336.2 | 3127.8 | 2895.3 | 2743.5 | 2707.7 | 2678.7 |
| 65°   | 2997.3 | 3023.9 | 3041.3 | 3165.5 | 3392.7 | 3604.9 | 3408.2 | 3179.0 | 3022.9 | 2976.0 | 2952.8 |
| 67.5° | 3125.4 | 3139.9 | 3182.4 | 3323.2 | 3562.9 | 3805.1 | 3603.5 | 3338.1 | 3163.6 | 3081.4 | 3082.4 |
| 70°   | 2937.9 | 2908.3 | 3010.8 | 3236.1 | 3583.2 | 3927.9 | 3629.6 | 3229.4 | 3015.7 | 2882.2 | 2914.2 |
| 72.5° | 2270.2 | 2219.4 | 2397.4 | 2782.7 | 3351.1 | 3849.6 | 3374.4 | 2804.4 | 2508.1 | 2237.4 | 2304.5 |
| 75°   | 1235.1 | 1177.6 | 1423.2 | 1910.5 | 2672.4 | 3336.7 | 2733.8 | 1965.1 | 1584.6 | 1226.0 | 1305.7 |
| 77.5° | 348.6  | 326.8  | 525.0  | 924.3  | 1607.4 | 2342.7 | 1669.3 | 944.6  | 622.7  | 369.3  | 410.4  |
| 80°   | 106.8  | 103.4  | 140.2  | 278.5  | 682.6  | 1122.1 | 656.0  | 281.9  | 178.4  | 112.6  | 118.9  |
| 82.5° | 63.3   | 58.0   | 69.6   | 101.5  | 174.0  | 352.4  | 169.2  | 105.9  | 85.1   | 57.1   | 61.9   |
| 85°   | 36.3   | 33.8   | 41.1   | 49.3   | 58.5   | 74.9   | 48.8   | 50.3   | 45.4   | 30.4   | 31.9   |
| 87.5° | 15.0   | 13.5   | 16.0   | 15.5   | 13.5   | 17.4   | 13.0   | 15.5   | 18.3   | 12.1   | 11.1   |
| 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)