

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: P881755

Luminaire Tested: **NVN-SB1B-760-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881755
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1B-760-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6011 lumens
Efficiency: N/A
Efficacy: 151.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

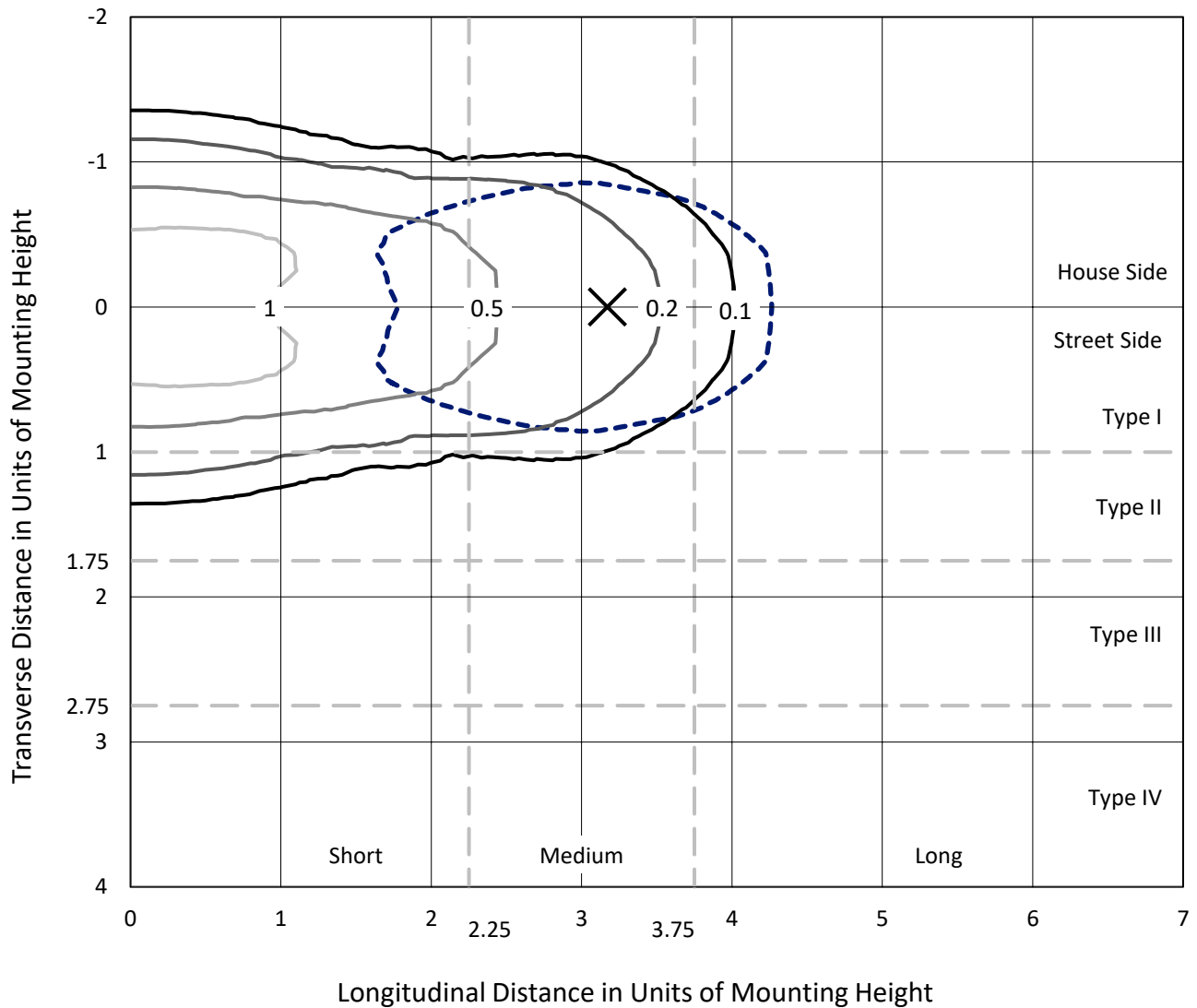
Input Watts (W): 39.8
Input Voltage (V): 120.0
Input Current (Ain): 0.33
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.305
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

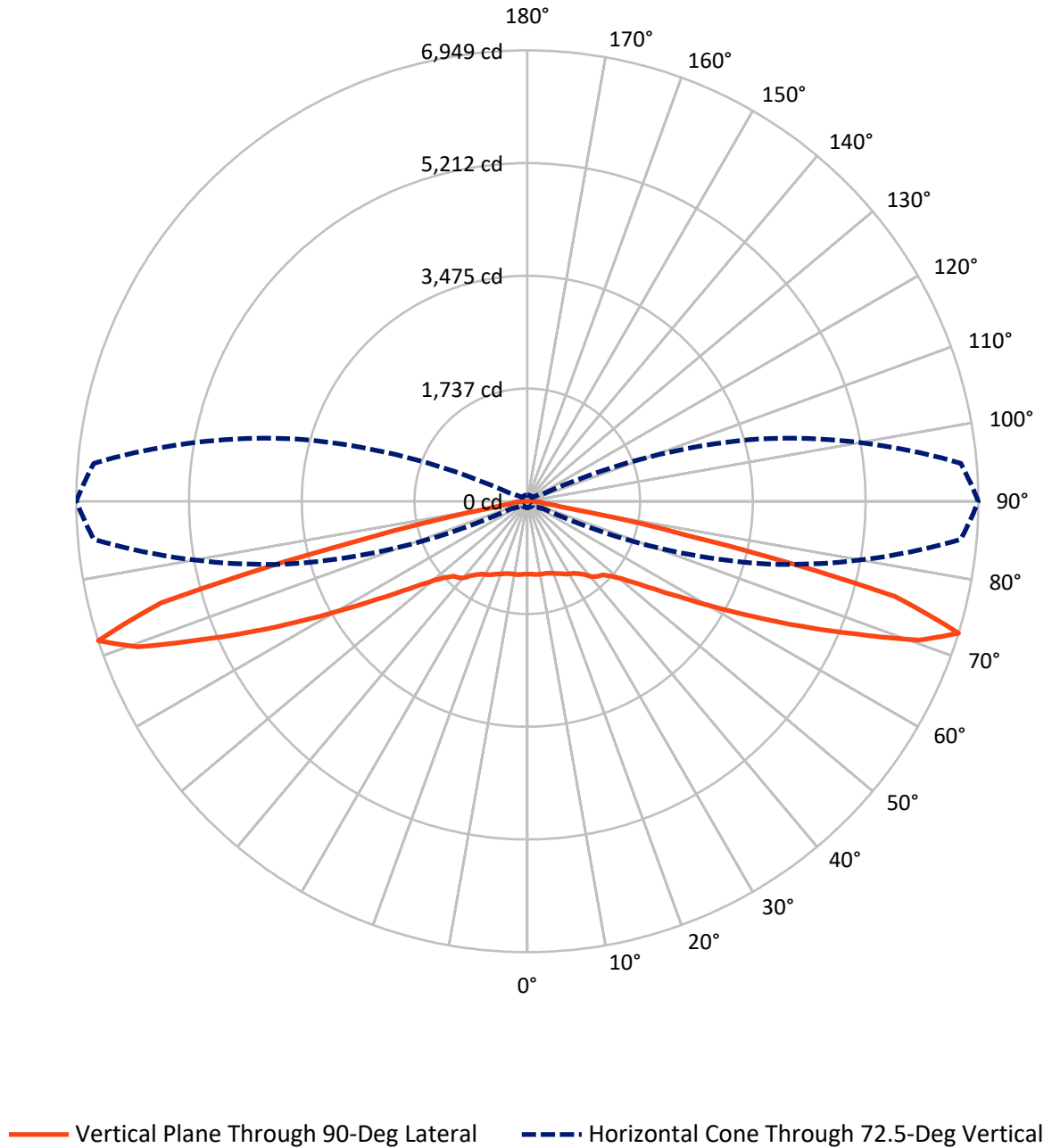
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3005.5 | 0.0 | 3005.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3005.5 | 0.0 | 3005.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 6011.0 | 0.0 | 6011.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 108.9 | 1.8 |
| 10°-20° | 333.0 | 5.5 |
| 20°-30° | 555.3 | 9.2 |
| 30°-40° | 763.6 | 12.7 |
| 40°-50° | 932.6 | 15.5 |
| 50°-60° | 1078.7 | 17.9 |
| 60°-70° | 1286.1 | 21.4 |
| 70°-80° | 897.6 | 14.9 |
| 80°-90° | 55.1 | 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° | 6011.0 | 100.0 |
| 0°-180° | 6011.0 | 100.0 |

Coefficient of Utilization



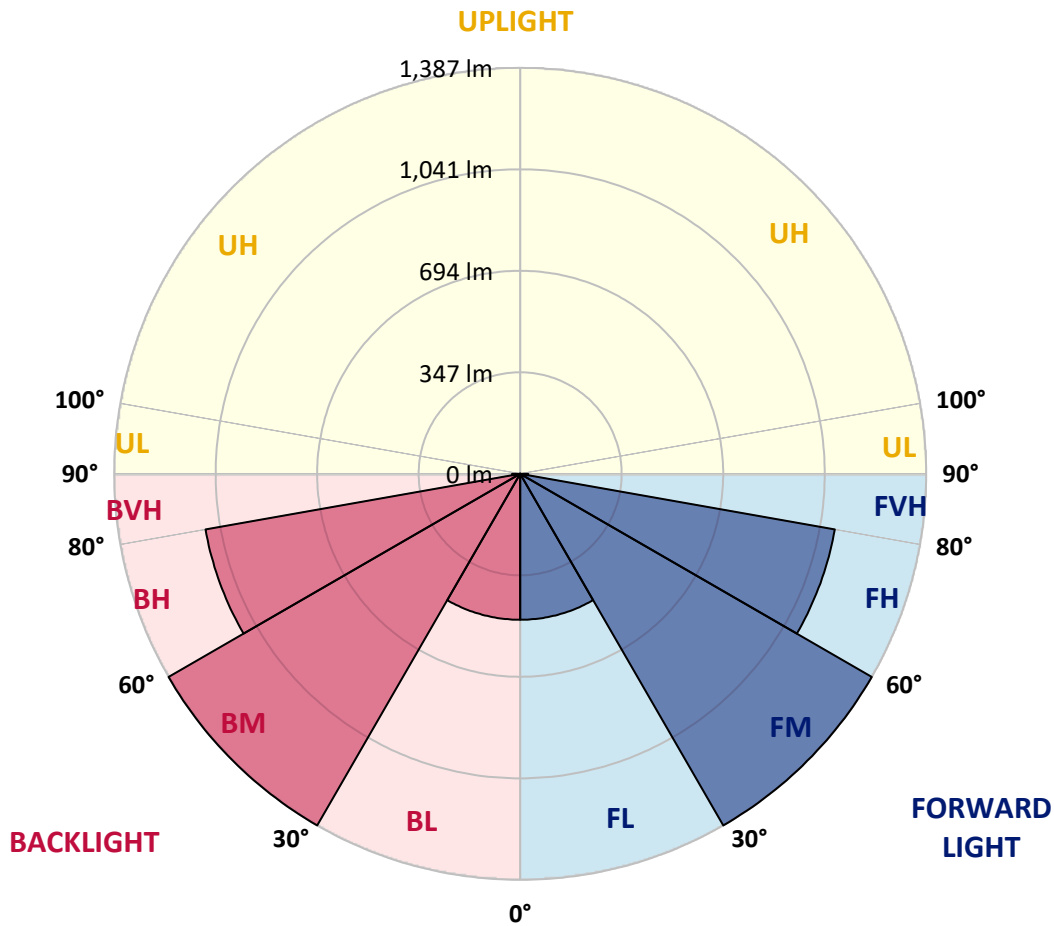
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 498.6 | 8.3 | | | |
| FM (30°-60°) | 1387.5 | 23.1 | | | |
| FH (60°-80°) | 1091.9 | 18.2 | | | G1/1800 |
| FVH (80°-90°) | 27.6 | 0.5 | | | G1/100 |
| BL (0°-30°) | 498.6 | 8.3 | B1/500 | | |
| BM (30°-60°) | 1387.5 | 23.1 | B2/2500 | | |
| BH (60°-80°) | 1091.9 | 18.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 27.6 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type I Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1123.2 | 1123.2 | 1123.2 | 1123.2 | 1123.2 | 1123.2 | 1123.2 | 1123.2 | 1123.2 | 1123.2 | 1123.2 |
| 2.5° | 1124.2 | 1125.5 | 1125.5 | 1124.5 | 1126.7 | 1124.8 | 1124.8 | 1123.9 | 1124.8 | 1123.9 | 1123.9 |
| 5° | 1129.9 | 1131.5 | 1132.2 | 1131.8 | 1134.7 | 1133.1 | 1133.1 | 1131.8 | 1132.2 | 1131.2 | 1131.2 |
| 7.5° | 1140.8 | 1143.0 | 1144.3 | 1145.9 | 1150.1 | 1148.1 | 1146.9 | 1143.0 | 1141.4 | 1138.9 | 1138.9 |
| 10° | 1144.3 | 1146.9 | 1151.0 | 1159.3 | 1168.9 | 1169.2 | 1165.4 | 1155.8 | 1148.5 | 1142.7 | 1141.7 |
| 12.5° | 1133.4 | 1137.0 | 1145.6 | 1162.5 | 1183.9 | 1192.5 | 1186.5 | 1170.5 | 1156.1 | 1145.9 | 1144.3 |
| 15° | 1119.7 | 1123.5 | 1136.6 | 1162.2 | 1193.8 | 1213.9 | 1213.3 | 1192.2 | 1169.2 | 1153.2 | 1150.7 |
| 17.5° | 1098.3 | 1102.1 | 1121.0 | 1156.8 | 1201.5 | 1234.7 | 1243.7 | 1221.9 | 1189.7 | 1168.3 | 1164.7 |
| 20° | 1059.6 | 1063.2 | 1089.4 | 1139.5 | 1204.0 | 1256.8 | 1280.1 | 1260.9 | 1220.7 | 1191.6 | 1186.2 |
| 22.5° | 1009.5 | 1014.9 | 1045.6 | 1109.8 | 1198.0 | 1279.8 | 1321.6 | 1308.5 | 1256.8 | 1216.5 | 1209.2 |
| 25° | 955.8 | 961.6 | 997.4 | 1073.4 | 1182.3 | 1296.4 | 1370.8 | 1362.5 | 1297.6 | 1247.5 | 1237.3 |
| 27.5° | 909.5 | 915.6 | 954.5 | 1037.3 | 1158.0 | 1302.8 | 1419.4 | 1423.5 | 1347.2 | 1281.7 | 1270.8 |
| 30° | 873.1 | 878.8 | 920.4 | 1008.2 | 1126.7 | 1296.4 | 1461.8 | 1490.6 | 1397.6 | 1311.4 | 1295.7 |
| 32.5° | 833.1 | 840.5 | 884.3 | 972.8 | 1089.7 | 1281.0 | 1498.9 | 1563.1 | 1456.1 | 1343.3 | 1323.5 |
| 35° | 782.7 | 789.4 | 835.4 | 924.2 | 1041.1 | 1256.4 | 1529.9 | 1643.6 | 1539.8 | 1391.9 | 1369.8 |
| 37.5° | 721.3 | 727.7 | 773.4 | 863.5 | 992.9 | 1221.9 | 1553.5 | 1734.3 | 1639.5 | 1461.8 | 1432.5 |
| 40° | 659.7 | 665.8 | 708.6 | 795.8 | 935.1 | 1177.8 | 1561.8 | 1823.2 | 1753.8 | 1558.0 | 1526.7 |
| 42.5° | 603.1 | 608.6 | 647.9 | 729.0 | 870.2 | 1121.6 | 1551.0 | 1900.5 | 1856.4 | 1625.1 | 1584.8 |
| 45° | 551.1 | 555.9 | 590.7 | 666.4 | 802.8 | 1053.3 | 1518.4 | 1983.5 | 1978.4 | 1673.0 | 1618.7 |
| 47.5° | 491.6 | 496.4 | 532.5 | 605.7 | 735.4 | 973.1 | 1463.1 | 2065.3 | 2148.0 | 1781.6 | 1719.0 |
| 50° | 419.1 | 423.3 | 460.3 | 535.7 | 665.4 | 887.8 | 1386.5 | 2129.5 | 2362.1 | 1946.1 | 1867.6 |
| 52.5° | 333.2 | 337.7 | 373.8 | 449.2 | 582.4 | 796.1 | 1285.5 | 2171.4 | 2609.3 | 2186.4 | 2089.6 |
| 55° | 247.9 | 251.1 | 282.4 | 350.1 | 479.5 | 691.6 | 1159.0 | 2183.2 | 2889.8 | 2514.8 | 2393.7 |
| 57.5° | 179.9 | 181.8 | 201.9 | 252.4 | 363.5 | 561.0 | 1005.3 | 2152.5 | 3223.7 | 2935.8 | 2783.4 |
| 60° | 145.7 | 146.3 | 152.4 | 174.7 | 252.7 | 413.4 | 819.7 | 2047.1 | 3585.9 | 3478.6 | 3286.6 |
| 62.5° | 132.3 | 132.3 | 133.9 | 139.9 | 170.9 | 272.8 | 595.2 | 1828.6 | 3974.4 | 4164.5 | 3907.3 |
| 65° | 123.0 | 123.0 | 123.6 | 126.5 | 134.8 | 173.8 | 375.7 | 1472.7 | 4301.8 | 4967.9 | 4642.7 |
| 67.5° | 114.7 | 115.0 | 114.7 | 115.6 | 120.4 | 128.4 | 217.9 | 1017.2 | 4478.2 | 5800.4 | 5449.3 |
| 70° | 106.1 | 106.7 | 105.1 | 105.1 | 108.9 | 109.3 | 136.4 | 557.8 | 4331.9 | 6498.1 | 6405.8 |
| 72.5° | 95.8 | 96.8 | 94.2 | 93.6 | 96.5 | 95.2 | 102.5 | 267.7 | 3719.1 | 6706.4 | 6949.2 |
| 75° | 86.9 | 88.2 | 82.4 | 80.8 | 80.8 | 79.9 | 83.4 | 137.4 | 2413.8 | 5470.7 | 5851.5 |
| 77.5° | 78.9 | 81.5 | 72.2 | 67.1 | 65.8 | 62.9 | 68.0 | 84.0 | 1055.8 | 2568.5 | 2515.1 |
| 80° | 65.2 | 68.7 | 59.4 | 53.3 | 51.1 | 47.9 | 53.7 | 58.8 | 314.0 | 596.4 | 571.2 |
| 82.5° | 48.6 | 50.2 | 42.2 | 38.0 | 36.1 | 33.9 | 40.3 | 40.9 | 102.2 | 211.2 | 238.6 |
| 85° | 31.0 | 31.6 | 25.9 | 22.4 | 21.4 | 20.4 | 25.6 | 22.4 | 39.0 | 155.3 | 225.5 |
| 87.5° | 10.9 | 12.5 | 9.9 | 8.9 | 9.6 | 8.0 | 11.8 | 6.7 | 10.9 | 109.6 | 135.8 |
| 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)