

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: P233432

Luminaire Tested: **VERD-C01H-D-U-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233432
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-18)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C01H-D-U-T1
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1210mA LED AND TYPE I OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9359 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

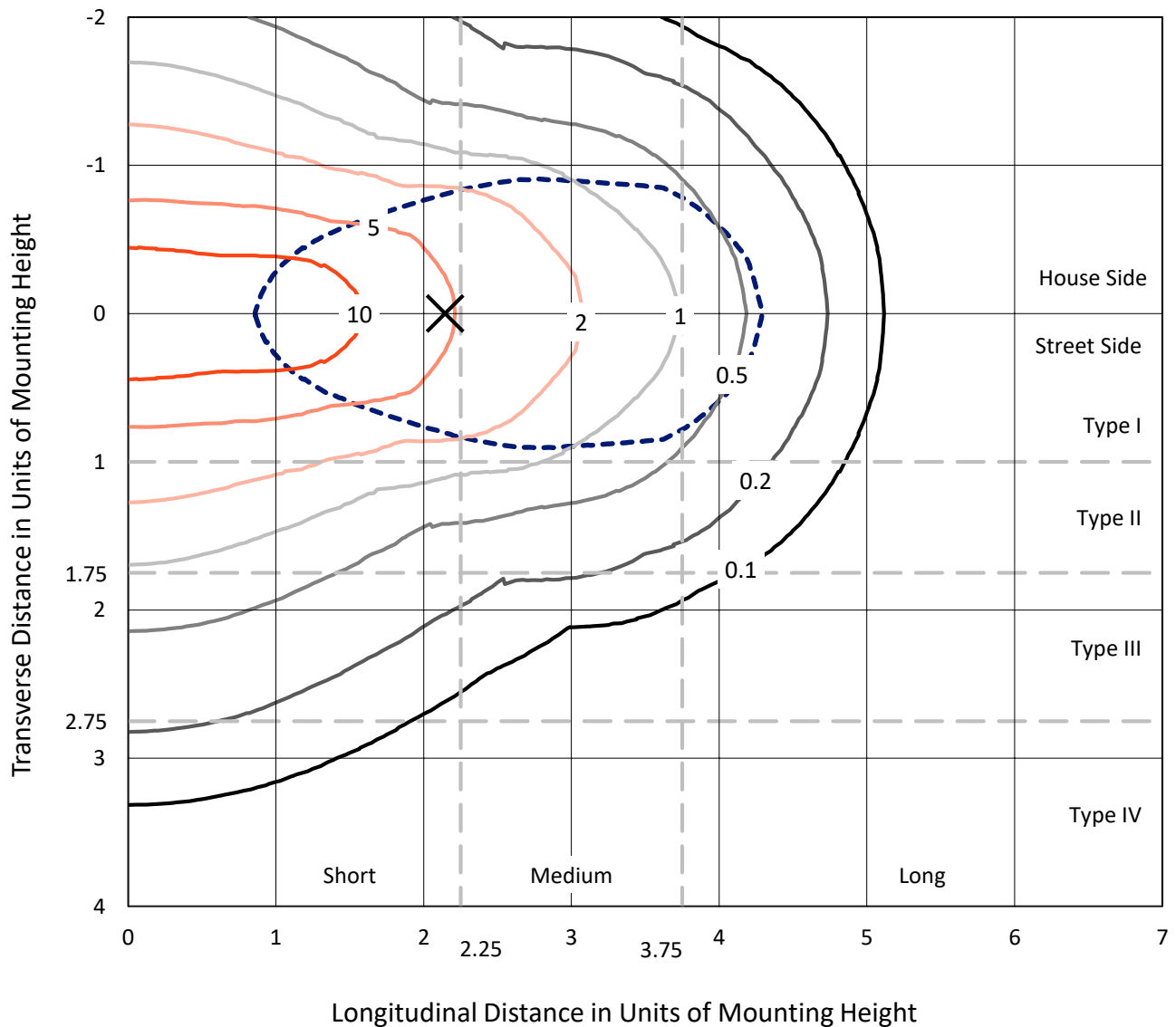
Input Watts (W): 73
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

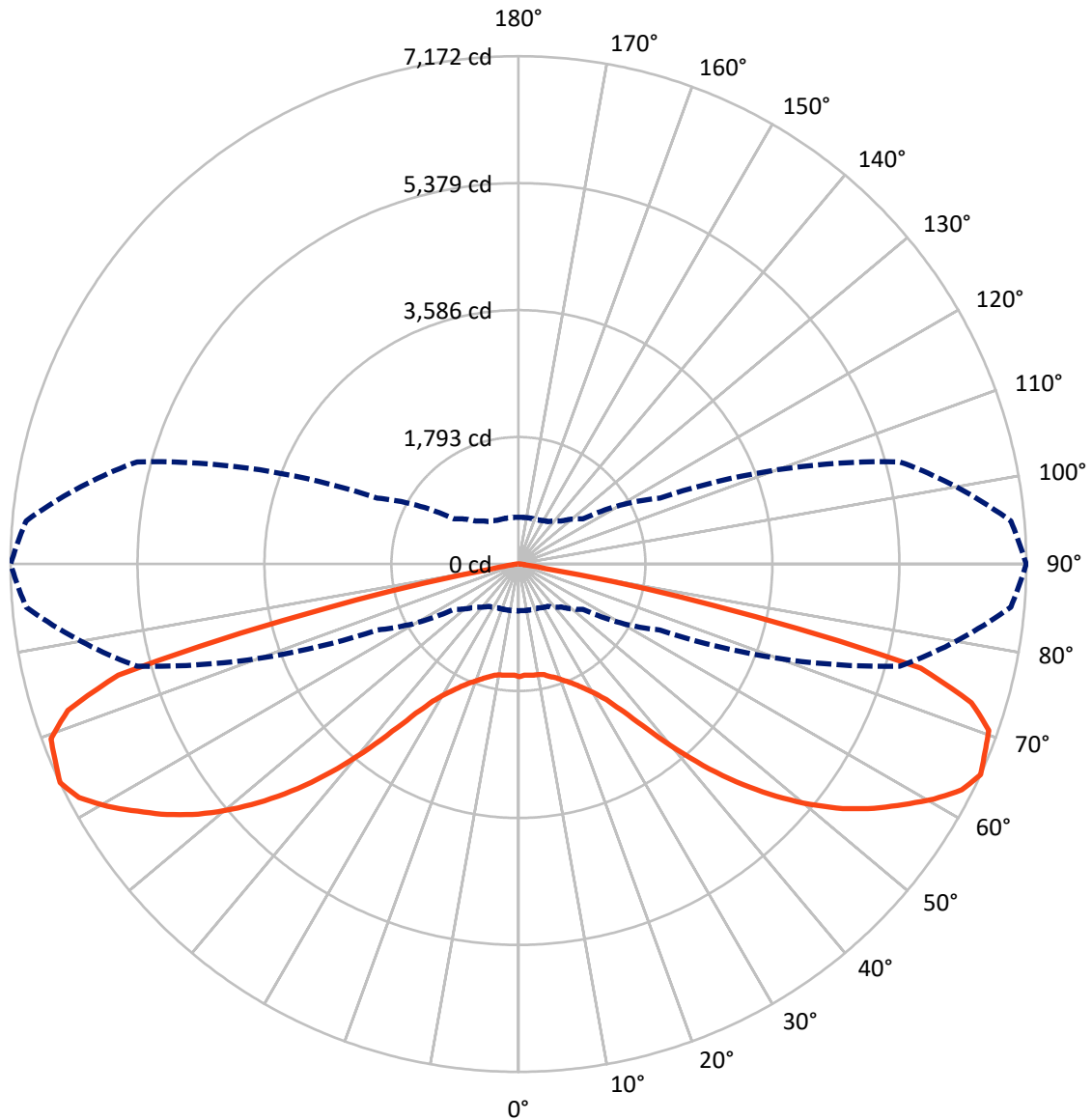
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.9 fc
 Type V - Short - Full Cutoff

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CATALOG NUMBER: VERD-C01H-D-U-T1

Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4679.5 | 0.0 | 4679.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4679.5 | 0.0 | 4679.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 9359.0 | 0.0 | 9359.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 150.9 | 1.6 |
| 10°-20° | 445.7 | 4.8 |
| 20°-30° | 730.8 | 7.8 |
| 30°-40° | 1056.7 | 11.3 |
| 40°-50° | 1547.3 | 16.5 |
| 50°-60° | 2007.3 | 21.4 |
| 60°-70° | 2122.8 | 22.7 |
| 70°-80° | 1246.2 | 13.3 |
| 80°-90° | 51.3 | 0.5 |
| 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° | 9359.0 | 100.0 |
| 0°-180° | 9359.0 | 100.0 |



REPORT NUMBER: P233432

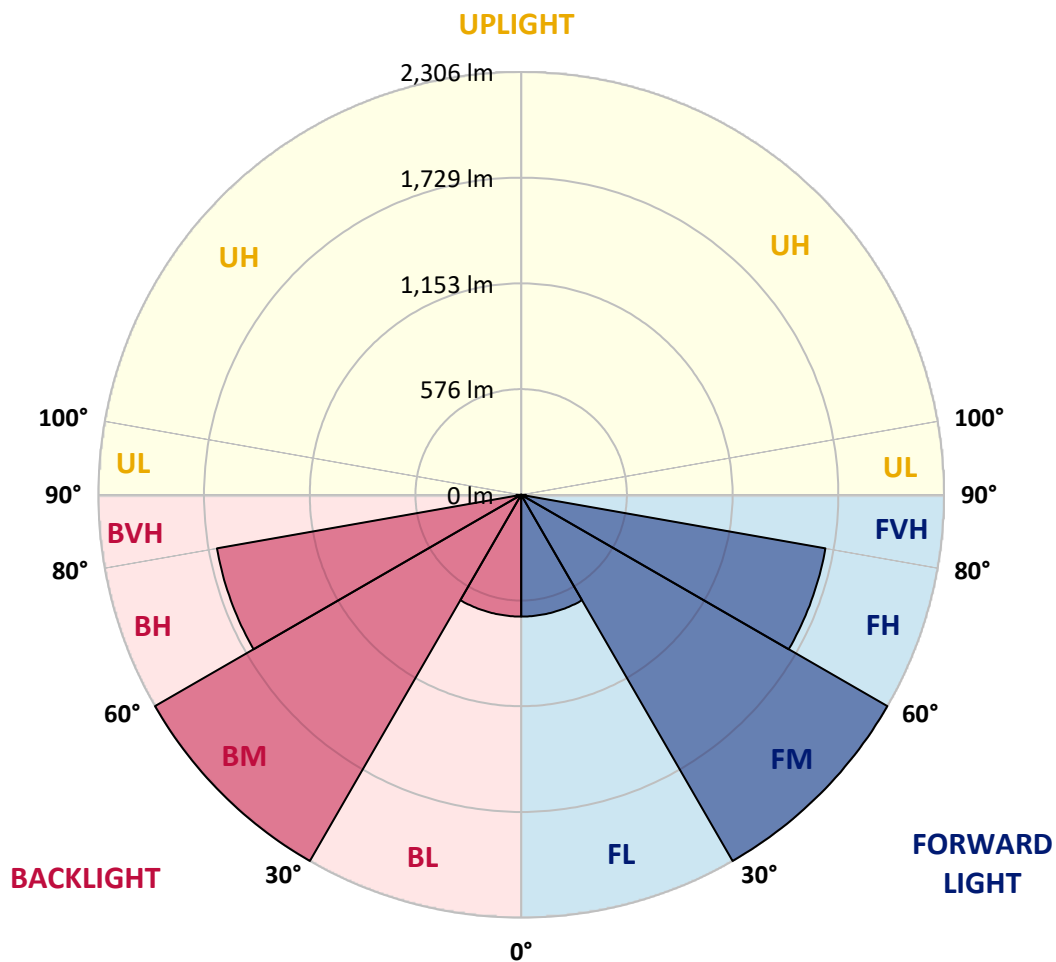
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 663.7 | 7.1 | | | |
| FM | (30°-60°) | 2305.7 | 24.6 | | | |
| FH | (60°-80°) | 1684.5 | 18.0 | | | G1/1800 |
| FVH | (80°-90°) | 25.7 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 663.7 | 7.1 | B2/1000 | | |
| BM | (30°-60°) | 2305.7 | 24.6 | B2/2500 | | |
| BH | (60°-80°) | 1684.5 | 18.0 | B3/2500 | | G1/1800 |
| BVH | (80°-90°) | 25.7 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1593.0 | 1593.0 | 1593.0 | 1593.0 | 1593.0 | 1593.0 | 1593.0 | 1593.0 | 1593.0 | 1593.0 | 1593.0 |
| 2.5° | 1608.3 | 1606.7 | 1597.8 | 1584.9 | 1580.9 | 1584.1 | 1583.3 | 1579.2 | 1579.2 | 1580.9 | 1570.4 |
| 5° | 1598.6 | 1596.2 | 1585.7 | 1582.5 | 1583.3 | 1587.3 | 1586.5 | 1583.3 | 1584.9 | 1583.3 | 1575.2 |
| 7.5° | 1581.7 | 1579.2 | 1572.8 | 1571.2 | 1569.6 | 1576.0 | 1582.5 | 1586.5 | 1591.4 | 1588.9 | 1583.3 |
| 10° | 1565.5 | 1560.7 | 1561.5 | 1553.4 | 1556.6 | 1568.7 | 1575.2 | 1582.5 | 1589.7 | 1588.9 | 1587.3 |
| 12.5° | 1541.3 | 1536.4 | 1538.9 | 1536.4 | 1547.7 | 1562.3 | 1581.7 | 1595.4 | 1603.5 | 1601.1 | 1603.5 |
| 15° | 1511.4 | 1509.8 | 1513.8 | 1517.0 | 1537.2 | 1570.4 | 1591.4 | 1621.3 | 1639.0 | 1639.8 | 1645.5 |
| 17.5° | 1477.5 | 1474.2 | 1481.5 | 1493.6 | 1530.8 | 1567.1 | 1619.6 | 1652.8 | 1678.6 | 1682.6 | 1687.5 |
| 20° | 1420.1 | 1421.7 | 1433.0 | 1454.0 | 1506.5 | 1572.0 | 1636.6 | 1686.7 | 1723.8 | 1733.5 | 1744.0 |
| 22.5° | 1348.2 | 1352.3 | 1373.3 | 1416.9 | 1484.7 | 1566.3 | 1655.2 | 1726.3 | 1779.6 | 1801.4 | 1807.9 |
| 25° | 1273.1 | 1279.6 | 1313.5 | 1371.6 | 1459.7 | 1563.9 | 1678.6 | 1772.3 | 1848.2 | 1883.0 | 1887.0 |
| 27.5° | 1206.0 | 1211.7 | 1255.3 | 1329.6 | 1436.3 | 1564.7 | 1699.6 | 1828.0 | 1930.6 | 1981.5 | 1989.6 |
| 30° | 1138.2 | 1144.6 | 1189.9 | 1282.0 | 1412.8 | 1563.1 | 1723.8 | 1891.1 | 2029.2 | 2101.9 | 2114.0 |
| 32.5° | 1080.0 | 1086.5 | 1133.3 | 1229.5 | 1383.8 | 1560.7 | 1752.9 | 1967.8 | 2147.9 | 2265.9 | 2282.0 |
| 35° | 1030.8 | 1038.0 | 1085.7 | 1180.2 | 1346.6 | 1561.5 | 1794.9 | 2072.8 | 2332.1 | 2526.8 | 2558.3 |
| 37.5° | 989.6 | 996.8 | 1038.8 | 1134.1 | 1308.6 | 1555.0 | 1845.8 | 2205.3 | 2576.1 | 2898.4 | 2956.5 |
| 40° | 963.7 | 970.2 | 1001.7 | 1086.5 | 1262.6 | 1540.5 | 1904.8 | 2352.3 | 2874.1 | 3344.3 | 3446.1 |
| 42.5° | 937.0 | 944.3 | 970.2 | 1042.9 | 1213.3 | 1518.7 | 1956.5 | 2500.1 | 3185.1 | 3812.0 | 3957.4 |
| 45° | 908.0 | 912.8 | 941.1 | 1006.5 | 1164.8 | 1484.7 | 2001.7 | 2641.5 | 3511.5 | 4287.0 | 4444.5 |
| 47.5° | 883.7 | 886.2 | 909.6 | 970.2 | 1114.0 | 1434.6 | 2013.8 | 2762.7 | 3841.1 | 4749.0 | 4903.3 |
| 50° | 867.6 | 863.5 | 885.3 | 937.9 | 1066.3 | 1365.2 | 1992.8 | 2853.1 | 4195.7 | 5190.1 | 5336.3 |
| 52.5° | 842.5 | 841.7 | 858.7 | 906.3 | 1021.1 | 1285.2 | 1917.7 | 2896.8 | 4550.3 | 5602.9 | 5738.6 |
| 55° | 819.1 | 819.1 | 832.8 | 870.0 | 973.4 | 1202.8 | 1789.3 | 2879.0 | 4890.4 | 5993.9 | 6093.2 |
| 57.5° | 785.2 | 784.4 | 795.7 | 829.6 | 917.7 | 1125.3 | 1626.9 | 2796.6 | 5166.7 | 6355.8 | 6409.9 |
| 60° | 752.1 | 751.3 | 757.7 | 783.6 | 864.3 | 1042.1 | 1453.2 | 2635.0 | 5440.5 | 6675.6 | 6740.3 |
| 62.5° | 710.1 | 709.2 | 715.7 | 738.3 | 804.6 | 953.2 | 1282.8 | 2437.9 | 5601.3 | 6859.8 | 7027.0 |
| 65° | 660.0 | 660.8 | 668.9 | 683.4 | 730.2 | 857.9 | 1114.0 | 2202.9 | 5574.6 | 6979.4 | 7172.4 |
| 67.5° | 612.3 | 609.9 | 616.3 | 618.8 | 653.5 | 757.7 | 956.4 | 2016.3 | 5371.0 | 7000.4 | 7105.4 |
| 70° | 553.3 | 550.1 | 550.1 | 540.4 | 564.7 | 640.6 | 808.6 | 1820.8 | 4792.7 | 6808.9 | 7048.0 |
| 72.5° | 462.9 | 462.9 | 458.0 | 447.5 | 462.9 | 519.4 | 673.7 | 1602.7 | 3883.1 | 6393.7 | 6690.2 |
| 75° | 288.4 | 290.8 | 301.3 | 333.6 | 356.2 | 391.8 | 534.0 | 1350.6 | 3172.2 | 5319.4 | 5866.2 |
| 77.5° | 147.8 | 151.1 | 155.1 | 155.9 | 161.6 | 168.8 | 254.5 | 756.1 | 1612.4 | 2650.4 | 2827.3 |
| 80° | 37.2 | 38.0 | 91.3 | 101.8 | 109.1 | 112.3 | 93.7 | 252.0 | 417.6 | 391.0 | 382.1 |
| 82.5° | 25.0 | 26.7 | 52.5 | 64.6 | 59.8 | 45.2 | 51.7 | 76.7 | 62.2 | 84.8 | 95.3 |
| 85° | 13.7 | 13.7 | 23.4 | 25.0 | 25.8 | 29.1 | 25.8 | 25.0 | 28.3 | 54.1 | 63.0 |
| 87.5° | 6.5 | 6.5 | 9.7 | 12.1 | 12.1 | 14.5 | 12.1 | 12.9 | 12.9 | 25.0 | 29.1 |
| 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)