

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: LUMARK

Report Number: P969278

Luminaire Tested: **NAV-SB5D-730-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5D-730-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52123.3 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

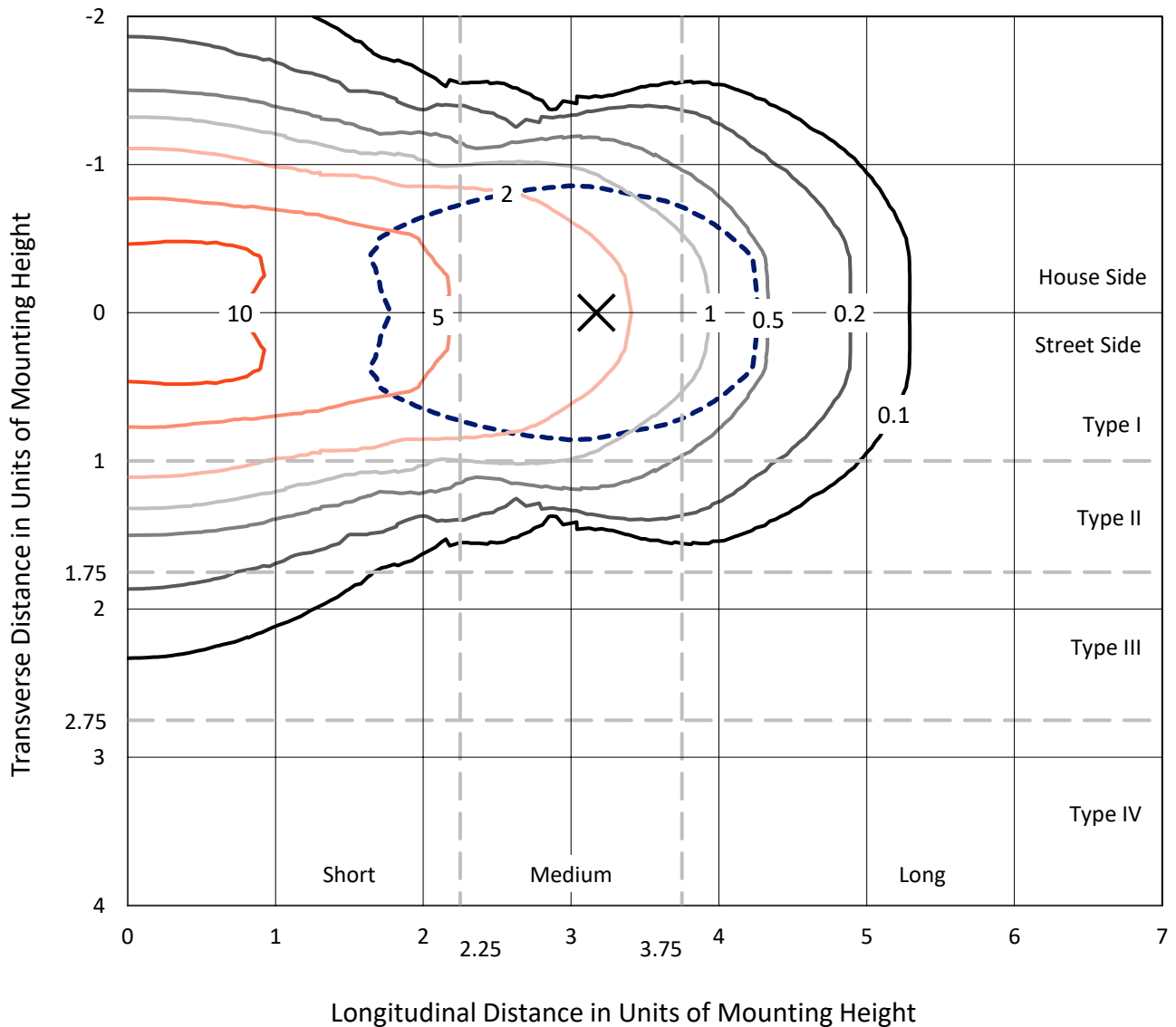
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

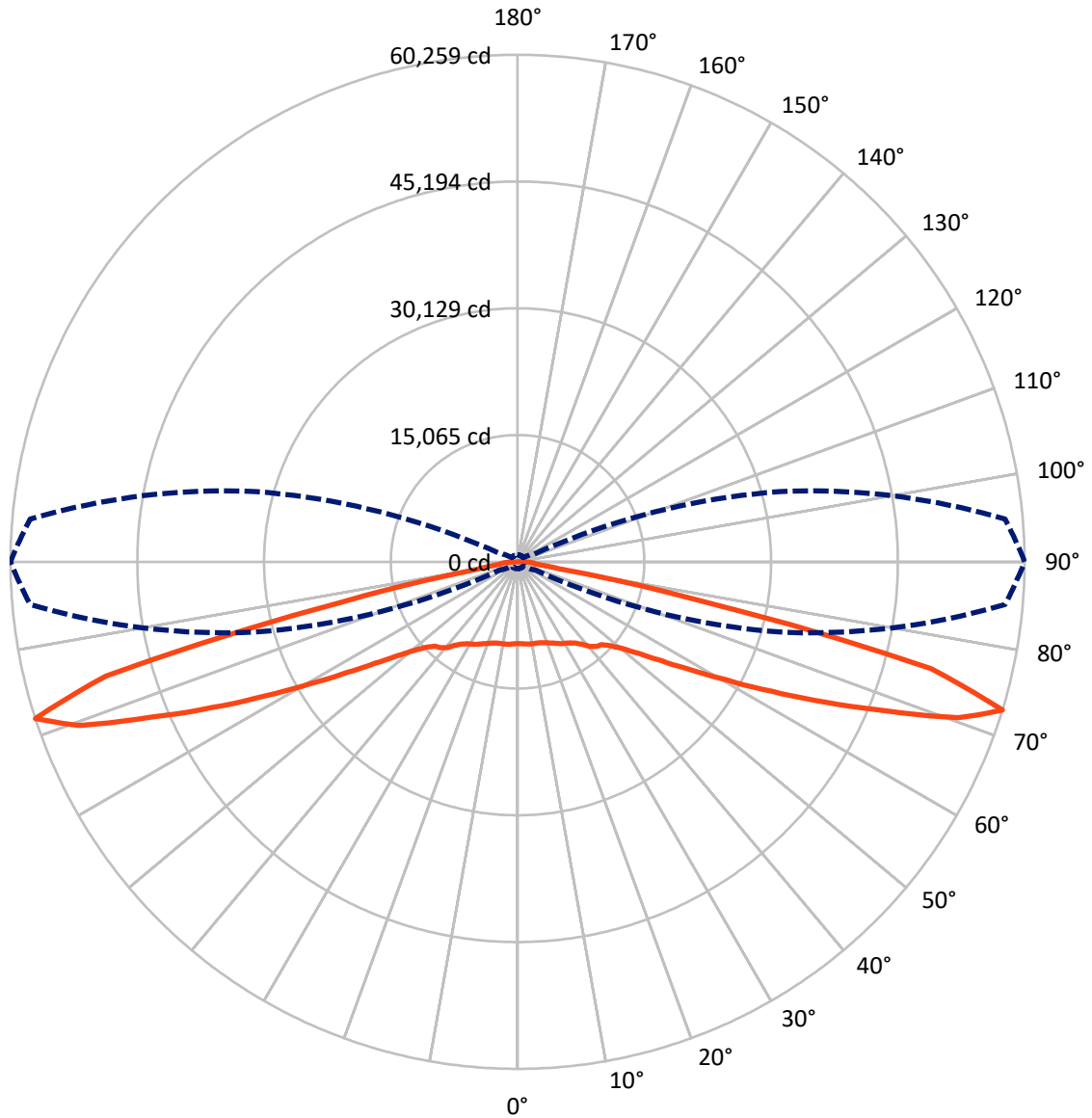
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 26061.6 | 0.0 | 26061.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 26061.6 | 0.0 | 26061.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 52123.3 | 0.0 | 52123.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 944.4 | 1.8 |
| 10°-20° | 2887.6 | 5.5 |
| 20°-30° | 4814.8 | 9.2 |
| 30°-40° | 6621.8 | 12.7 |
| 40°-50° | 8087.0 | 15.5 |
| 50°-60° | 9353.5 | 17.9 |
| 60°-70° | 11152.5 | 21.4 |
| 70°-80° | 7783.7 | 14.9 |
| 80°-90° | 478.1 | 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° | 52123.3 | 100.0 |
| 0°-180° | 52123.3 | 100.0 |

Coefficient of Utilization

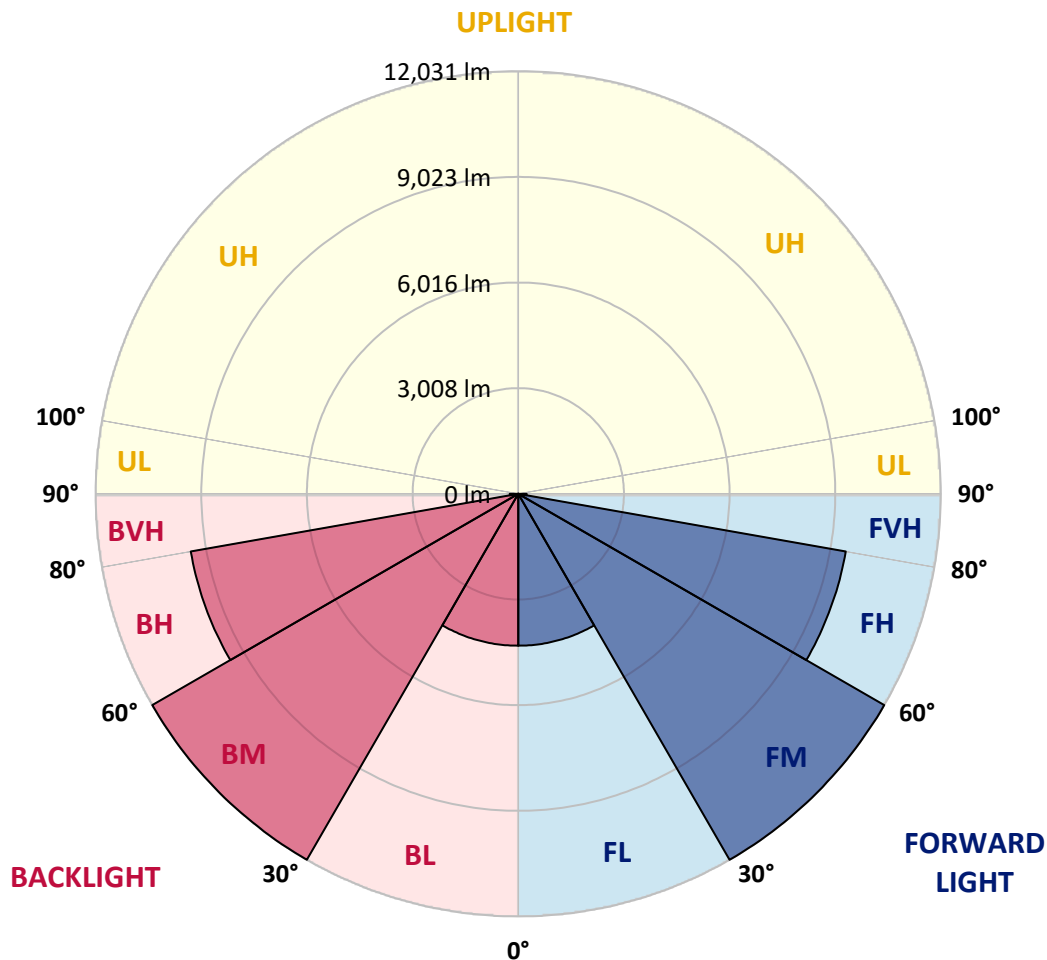


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 4323.4 | 8.3 | | | |
| FM (30°-60°) | 12031.1 | 23.1 | | | |
| FH (60°-80°) | 9468.1 | 18.2 | | | G4/12000 |
| FVH (80°-90°) | 239.0 | 0.5 | | | G3/500 |
| BL (0°-30°) | 4323.4 | 8.3 | B4/5000 | | |
| BM (30°-60°) | 12031.1 | 23.1 | B5 | | |
| BH (60°-80°) | 9468.1 | 18.2 | B5 | | G5 |
| BVH (80°-90°) | 239.0 | 0.5 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5
 Type I Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9739.8 | 9739.8 | 9739.8 | 9739.8 | 9739.8 | 9739.8 | 9739.8 | 9739.8 | 9739.8 | 9739.8 | 9739.8 |
| 2.5° | 9748.1 | 9759.2 | 9759.2 | 9750.8 | 9770.3 | 9753.6 | 9753.6 | 9745.3 | 9753.6 | 9745.3 | 9745.3 |
| 5° | 9798.0 | 9811.8 | 9817.3 | 9814.6 | 9839.5 | 9825.6 | 9825.6 | 9814.6 | 9817.3 | 9809.0 | 9809.0 |
| 7.5° | 9892.2 | 9911.5 | 9922.6 | 9936.5 | 9972.4 | 9955.8 | 9944.8 | 9911.5 | 9897.7 | 9875.6 | 9875.6 |
| 10° | 9922.6 | 9944.8 | 9980.8 | 10052.8 | 10135.9 | 10138.7 | 10105.5 | 10022.3 | 9958.6 | 9908.8 | 9900.5 |
| 12.5° | 9828.4 | 9858.9 | 9933.7 | 10080.5 | 10266.1 | 10340.9 | 10288.2 | 10149.8 | 10025.1 | 9936.5 | 9922.6 |
| 15° | 9709.3 | 9742.5 | 9856.1 | 10077.7 | 10352.0 | 10526.5 | 10521.0 | 10338.2 | 10138.7 | 10000.2 | 9978.1 |
| 17.5° | 9523.7 | 9557.0 | 9720.4 | 10030.6 | 10418.5 | 10706.5 | 10784.1 | 10595.7 | 10316.0 | 10130.4 | 10099.9 |
| 20° | 9188.5 | 9219.1 | 9446.2 | 9881.1 | 10440.6 | 10897.7 | 11099.9 | 10933.7 | 10584.7 | 10332.6 | 10285.5 |
| 22.5° | 8753.6 | 8800.8 | 9066.6 | 9623.4 | 10388.0 | 11097.2 | 11460.0 | 11346.4 | 10897.7 | 10548.7 | 10484.9 |
| 25° | 8288.3 | 8338.1 | 8648.3 | 9307.6 | 10252.3 | 11241.2 | 11886.6 | 11814.7 | 11252.2 | 10817.3 | 10728.8 |
| 27.5° | 7886.6 | 7939.2 | 8277.2 | 8994.6 | 10041.7 | 11296.6 | 12307.7 | 12343.7 | 11681.6 | 11113.8 | 11019.6 |
| 30° | 7570.8 | 7620.7 | 7980.8 | 8742.5 | 9770.3 | 11241.2 | 12676.2 | 12925.5 | 12119.3 | 11371.3 | 11235.6 |
| 32.5° | 7224.5 | 7288.3 | 7667.7 | 8435.0 | 9449.0 | 11108.2 | 12997.5 | 13554.3 | 12626.3 | 11648.4 | 11476.6 |
| 35° | 6786.8 | 6845.0 | 7243.9 | 8014.0 | 9027.9 | 10894.9 | 13266.2 | 14252.3 | 13352.1 | 12069.5 | 11878.3 |
| 37.5° | 6255.0 | 6310.4 | 6706.5 | 7487.6 | 8609.6 | 10595.7 | 13471.2 | 15039.0 | 14216.3 | 12676.2 | 12421.3 |
| 40° | 5720.3 | 5773.0 | 6144.2 | 6900.4 | 8108.2 | 10213.5 | 13543.2 | 15809.2 | 15208.0 | 13509.9 | 13238.5 |
| 42.5° | 5230.1 | 5277.1 | 5617.8 | 6321.5 | 7545.8 | 9725.9 | 13449.0 | 16479.5 | 16097.2 | 14091.7 | 13742.6 |
| 45° | 4778.4 | 4820.1 | 5122.0 | 5778.5 | 6961.4 | 9133.2 | 13166.4 | 17199.8 | 17155.4 | 14507.2 | 14036.2 |
| 47.5° | 4263.3 | 4304.8 | 4617.8 | 5252.2 | 6376.8 | 8437.8 | 12687.2 | 17908.9 | 18626.4 | 15449.0 | 14906.1 |
| 50° | 3634.4 | 3670.4 | 3991.8 | 4645.5 | 5770.2 | 7698.2 | 12022.3 | 18465.7 | 20482.4 | 16875.7 | 16194.2 |
| 52.5° | 2889.3 | 2928.0 | 3241.0 | 3894.8 | 5050.0 | 6903.2 | 11147.0 | 18828.6 | 22626.5 | 18958.8 | 18119.4 |
| 55° | 2149.6 | 2177.3 | 2448.8 | 3036.0 | 4158.0 | 5997.4 | 10050.0 | 18931.1 | 25058.6 | 21806.5 | 20756.7 |
| 57.5° | 1559.5 | 1576.2 | 1750.7 | 2188.4 | 3152.4 | 4864.3 | 8717.6 | 18665.1 | 27953.4 | 25457.5 | 24136.2 |
| 60° | 1263.2 | 1268.7 | 1321.3 | 1515.3 | 2191.1 | 3584.5 | 7108.2 | 17751.1 | 31094.7 | 30164.0 | 28499.1 |
| 62.5° | 1146.9 | 1146.9 | 1160.7 | 1213.3 | 1482.0 | 2365.7 | 5160.8 | 15856.2 | 34463.3 | 36111.5 | 33881.5 |
| 65° | 1066.5 | 1066.5 | 1072.0 | 1097.0 | 1169.0 | 1507.0 | 3257.7 | 12770.3 | 37302.6 | 43078.4 | 40258.3 |
| 67.5° | 994.5 | 997.2 | 994.5 | 1002.8 | 1044.4 | 1113.6 | 1889.3 | 8820.1 | 38831.7 | 50297.3 | 47252.9 |
| 70° | 919.7 | 925.3 | 911.3 | 911.3 | 944.6 | 947.4 | 1182.8 | 4836.7 | 37563.0 | 56347.3 | 55546.7 |
| 72.5° | 831.1 | 839.4 | 817.2 | 811.7 | 836.6 | 825.5 | 889.2 | 2321.4 | 32249.9 | 58153.4 | 60258.7 |
| 75° | 753.5 | 764.5 | 714.7 | 700.8 | 700.8 | 692.5 | 723.0 | 1191.2 | 20931.1 | 47438.5 | 50740.6 |
| 77.5° | 684.2 | 706.4 | 626.1 | 581.7 | 570.6 | 545.7 | 590.0 | 728.6 | 9155.3 | 22271.9 | 21809.2 |
| 80° | 565.1 | 595.6 | 515.3 | 462.6 | 443.2 | 415.5 | 465.4 | 509.7 | 2723.0 | 5171.8 | 4953.0 |
| 82.5° | 421.1 | 434.9 | 365.6 | 329.6 | 313.0 | 293.7 | 349.0 | 354.5 | 886.4 | 1831.1 | 2069.3 |
| 85° | 268.7 | 274.3 | 224.4 | 193.9 | 185.6 | 177.3 | 221.6 | 193.9 | 337.9 | 1346.2 | 1955.7 |
| 87.5° | 94.2 | 108.0 | 85.9 | 77.6 | 83.1 | 69.3 | 102.5 | 58.2 | 94.2 | 950.2 | 1177.3 |
| 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)