

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: P970317

Luminaire Tested: **NVN-SB6B-730-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6B-730-U-5NQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36676.5 lumens
Efficiency: N/A
Efficacy: 166.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

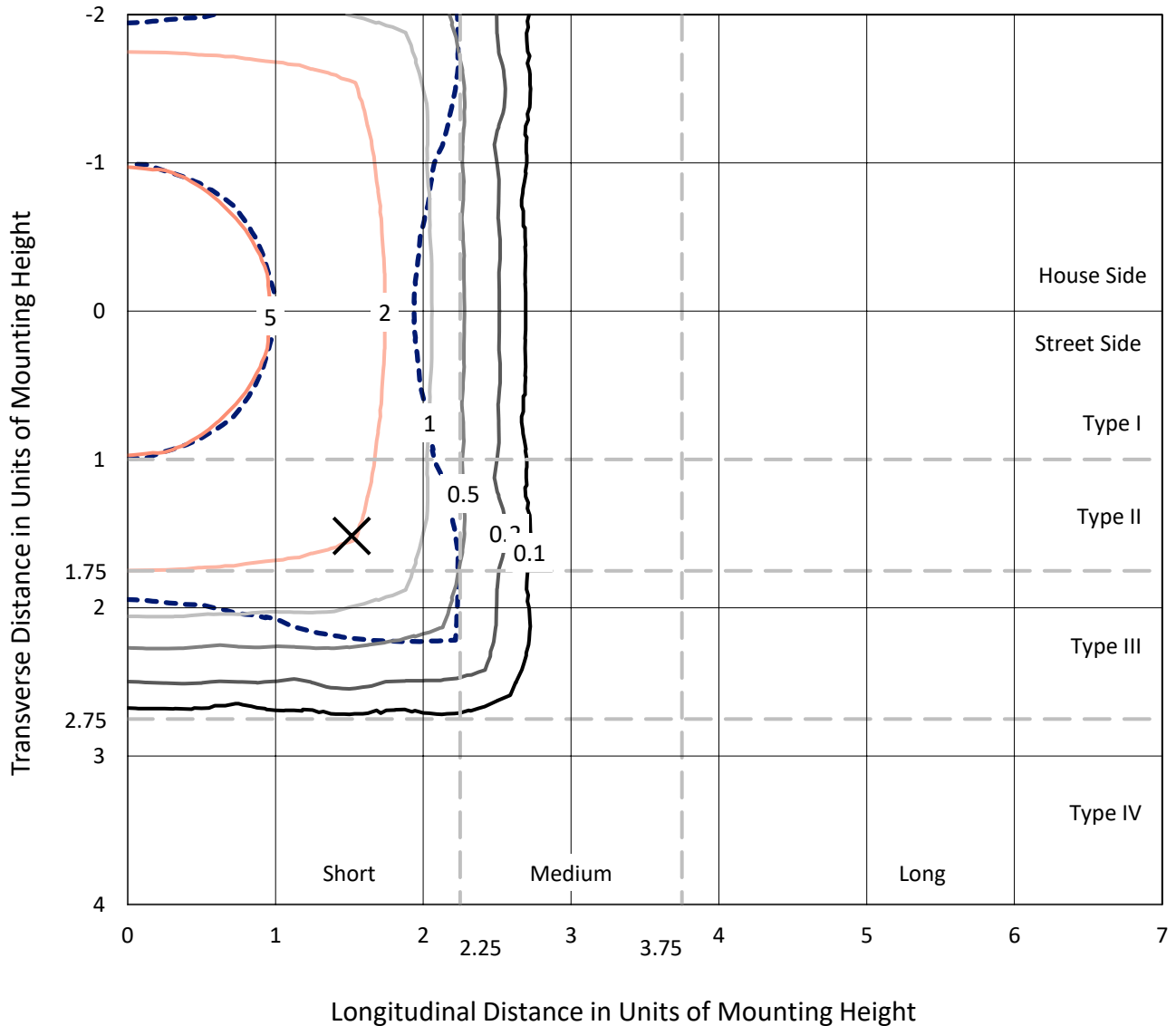
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

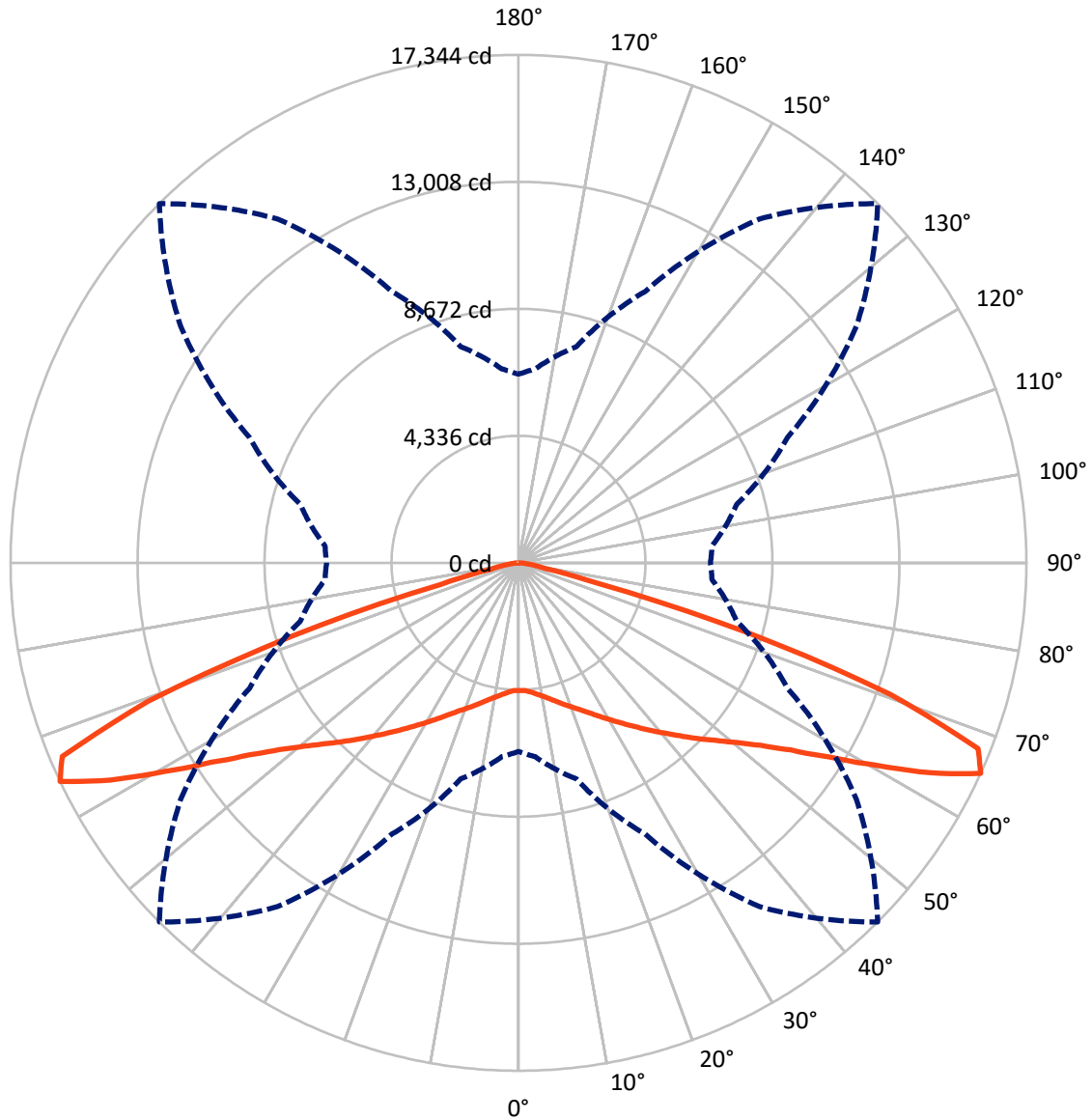
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 18338.3 | 0.0 | 18338.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 18338.3 | 0.0 | 18338.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 36676.5 | 0.0 | 36676.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 430.8 | 1.2 |
| 10°-20° | 1405.6 | 3.8 |
| 20°-30° | 2654.0 | 7.2 |
| 30°-40° | 4345.8 | 11.8 |
| 40°-50° | 6738.3 | 18.4 |
| 50°-60° | 9953.8 | 27.1 |
| 60°-70° | 9475.1 | 25.8 |
| 70°-80° | 1528.9 | 4.2 |
| 80°-90° | 144.1 | 0.4 |
| 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° | 36676.5 | 100.0 |
| 0°-180° | 36676.5 | 100.0 |

Coefficient of Utilization



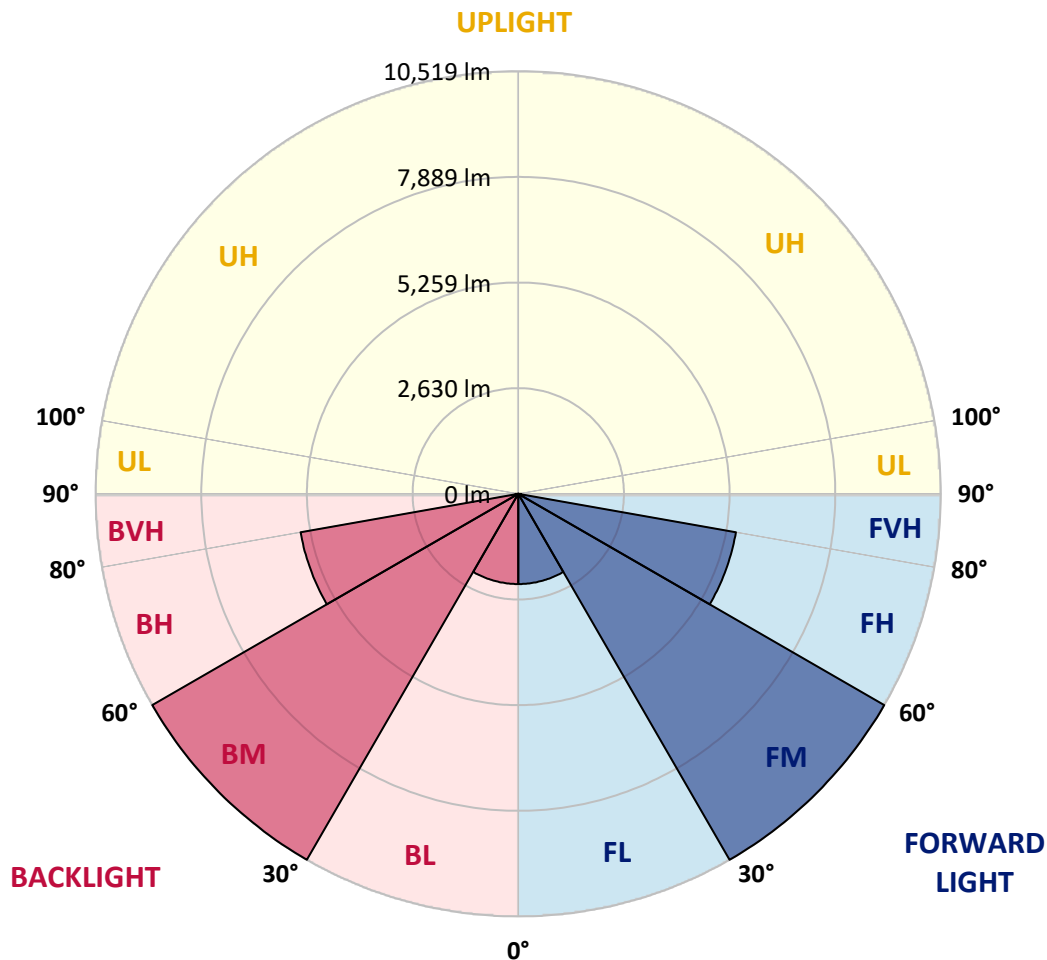
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2245.2 | 6.1 | | | |
| FM (30°-60°) | 10519.0 | 28.7 | | | |
| FH (60°-80°) | 5502.0 | 15.0 | | | G3/7500 |
| FVH (80°-90°) | 72.1 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2245.2 | 6.1 | B3/2500 | | |
| BM (30°-60°) | 10519.0 | 28.7 | B5 | | |
| BH (60°-80°) | 5502.0 | 15.0 | B5 | | G3/7500 |
| BVH (80°-90°) | 72.1 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4364.9 | 4364.9 | 4364.9 | 4364.9 | 4364.9 | 4364.9 | 4364.9 | 4364.9 | 4364.9 | 4364.9 | 4364.9 |
| 2.5° | 4394.3 | 4379.6 | 4390.6 | 4381.5 | 4374.1 | 4366.7 | 4370.4 | 4383.3 | 4388.8 | 4390.6 | 4390.6 |
| 5° | 4453.2 | 4440.3 | 4445.8 | 4445.8 | 4432.9 | 4429.3 | 4431.1 | 4440.3 | 4451.4 | 4451.4 | 4451.4 |
| 7.5° | 4548.8 | 4536.0 | 4548.8 | 4541.6 | 4530.5 | 4526.8 | 4525.0 | 4532.3 | 4548.8 | 4548.8 | 4543.4 |
| 10° | 4664.8 | 4650.1 | 4657.5 | 4653.8 | 4640.9 | 4635.4 | 4633.5 | 4644.6 | 4659.3 | 4657.5 | 4653.8 |
| 12.5° | 4791.8 | 4775.3 | 4784.4 | 4773.4 | 4769.7 | 4764.2 | 4764.2 | 4762.4 | 4771.6 | 4764.2 | 4767.9 |
| 15° | 4933.5 | 4922.5 | 4926.2 | 4918.8 | 4924.3 | 4920.6 | 4905.9 | 4898.5 | 4902.2 | 4891.2 | 4893.0 |
| 17.5° | 5100.9 | 5075.2 | 5088.1 | 5084.4 | 5084.4 | 5091.8 | 5067.8 | 5058.6 | 5066.0 | 5054.9 | 5064.1 |
| 20° | 5294.1 | 5268.4 | 5273.9 | 5266.6 | 5257.3 | 5264.7 | 5235.3 | 5242.7 | 5248.2 | 5240.8 | 5257.3 |
| 22.5° | 5505.8 | 5472.7 | 5470.8 | 5474.5 | 5454.2 | 5456.1 | 5435.9 | 5454.2 | 5465.3 | 5445.0 | 5465.3 |
| 25° | 5722.9 | 5687.9 | 5711.9 | 5702.7 | 5677.0 | 5682.4 | 5667.7 | 5686.1 | 5695.3 | 5669.6 | 5699.0 |
| 27.5° | 5952.9 | 5929.0 | 5951.2 | 5956.6 | 5925.3 | 5947.5 | 5925.3 | 5941.9 | 5951.2 | 5912.5 | 5941.9 |
| 30° | 6221.6 | 6197.7 | 6218.0 | 6232.6 | 6195.8 | 6230.8 | 6212.4 | 6223.5 | 6225.2 | 6179.3 | 6206.9 |
| 32.5° | 6514.2 | 6477.4 | 6528.9 | 6536.3 | 6495.8 | 6538.1 | 6514.2 | 6528.9 | 6538.1 | 6475.5 | 6517.9 |
| 35° | 6871.2 | 6825.2 | 6884.1 | 6874.9 | 6839.9 | 6874.9 | 6852.7 | 6874.9 | 6896.9 | 6821.5 | 6867.5 |
| 37.5° | 7255.8 | 7207.9 | 7270.5 | 7253.9 | 7220.8 | 7244.7 | 7231.9 | 7246.5 | 7281.5 | 7200.5 | 7250.2 |
| 40° | 7679.0 | 7620.2 | 7704.8 | 7675.3 | 7644.0 | 7640.4 | 7647.7 | 7657.0 | 7703.0 | 7612.8 | 7642.2 |
| 42.5° | 8131.7 | 8069.1 | 8196.1 | 8150.1 | 8105.9 | 8076.5 | 8100.4 | 8118.8 | 8163.0 | 8061.7 | 8115.1 |
| 45° | 8648.7 | 8577.0 | 8742.6 | 8687.4 | 8617.5 | 8556.8 | 8595.4 | 8623.0 | 8687.4 | 8566.0 | 8628.6 |
| 47.5° | 9219.3 | 9138.3 | 9314.9 | 9298.4 | 9184.3 | 9051.8 | 9140.1 | 9219.3 | 9267.1 | 9119.8 | 9169.5 |
| 50° | 9776.8 | 9714.2 | 9946.1 | 9966.4 | 9826.5 | 9640.6 | 9763.9 | 9883.6 | 9896.4 | 9703.2 | 9727.1 |
| 52.5° | 10299.4 | 10236.9 | 10573.6 | 10700.6 | 10575.4 | 10354.7 | 10485.2 | 10606.7 | 10509.2 | 10258.9 | 10266.3 |
| 55° | 10717.1 | 10665.6 | 11094.4 | 11421.9 | 11464.2 | 11282.1 | 11359.4 | 11355.7 | 11035.5 | 10650.9 | 10663.8 |
| 57.5° | 10818.4 | 10811.0 | 11352.0 | 12045.7 | 12487.4 | 12509.4 | 12356.7 | 11966.6 | 11276.5 | 10759.4 | 10726.3 |
| 60° | 10358.3 | 10404.3 | 11147.7 | 12371.4 | 13549.2 | 14038.6 | 13378.0 | 12264.7 | 11002.3 | 10284.6 | 10200.1 |
| 62.5° | 8981.9 | 9103.3 | 9999.5 | 11973.9 | 14406.7 | 15797.8 | 14196.9 | 11812.0 | 9876.2 | 8939.5 | 8884.3 |
| 65° | 6436.9 | 6648.6 | 7638.5 | 10218.4 | 14329.4 | 17343.6 | 14079.1 | 10135.6 | 7712.1 | 6632.0 | 6552.8 |
| 67.5° | 2920.3 | 3135.7 | 3976.6 | 6996.3 | 12456.1 | 16924.0 | 12426.7 | 7069.9 | 4175.3 | 3146.6 | 3100.7 |
| 70° | 1058.1 | 1094.9 | 1365.4 | 2800.7 | 7960.6 | 13484.7 | 8301.0 | 2821.0 | 1451.9 | 1166.7 | 1151.9 |
| 72.5° | 640.4 | 645.9 | 702.9 | 1002.9 | 2765.8 | 8186.9 | 2883.5 | 1036.0 | 717.7 | 636.7 | 647.7 |
| 75° | 406.7 | 403.0 | 500.5 | 612.7 | 980.8 | 2762.1 | 1028.7 | 612.7 | 498.7 | 454.5 | 458.2 |
| 77.5° | 292.6 | 301.8 | 358.9 | 458.2 | 618.3 | 936.6 | 607.2 | 438.0 | 358.9 | 294.4 | 299.9 |
| 80° | 218.9 | 224.5 | 261.3 | 357.0 | 434.3 | 583.3 | 386.4 | 323.9 | 270.5 | 184.0 | 189.5 |
| 82.5° | 158.3 | 158.3 | 171.2 | 259.4 | 265.0 | 314.7 | 209.8 | 228.2 | 178.5 | 130.7 | 130.7 |
| 85° | 93.9 | 92.0 | 106.7 | 154.6 | 138.0 | 115.9 | 95.7 | 139.8 | 112.2 | 81.0 | 79.1 |
| 87.5° | 33.1 | 35.0 | 33.1 | 44.2 | 36.8 | 31.3 | 29.4 | 38.6 | 31.3 | 27.6 | 25.7 |
| 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)