

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: P969262

Luminaire Tested: **NVN-SB5D-730-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969262
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5D-730-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55178.8 lumens
Efficiency: N/A
Efficacy: 151.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

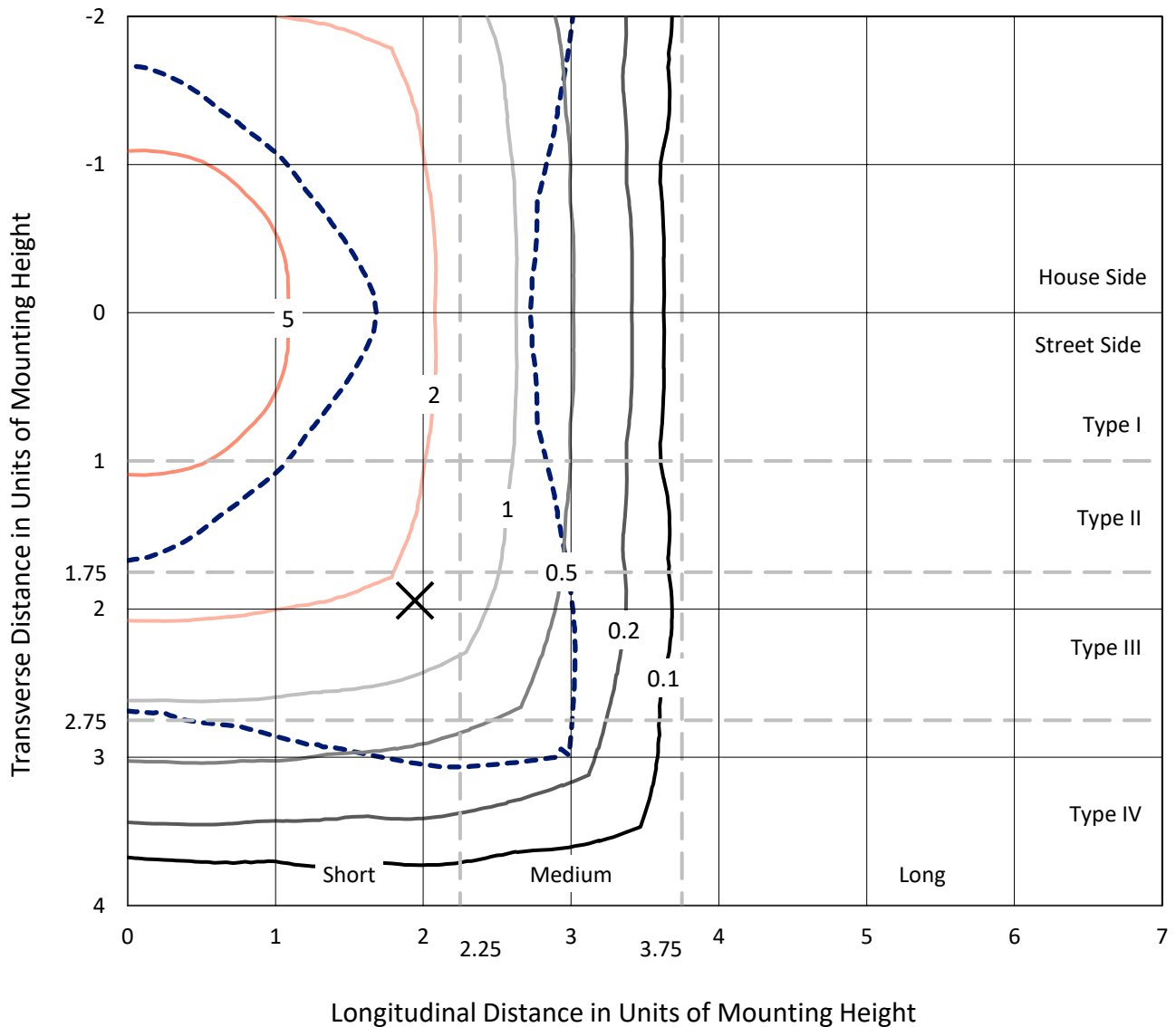
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

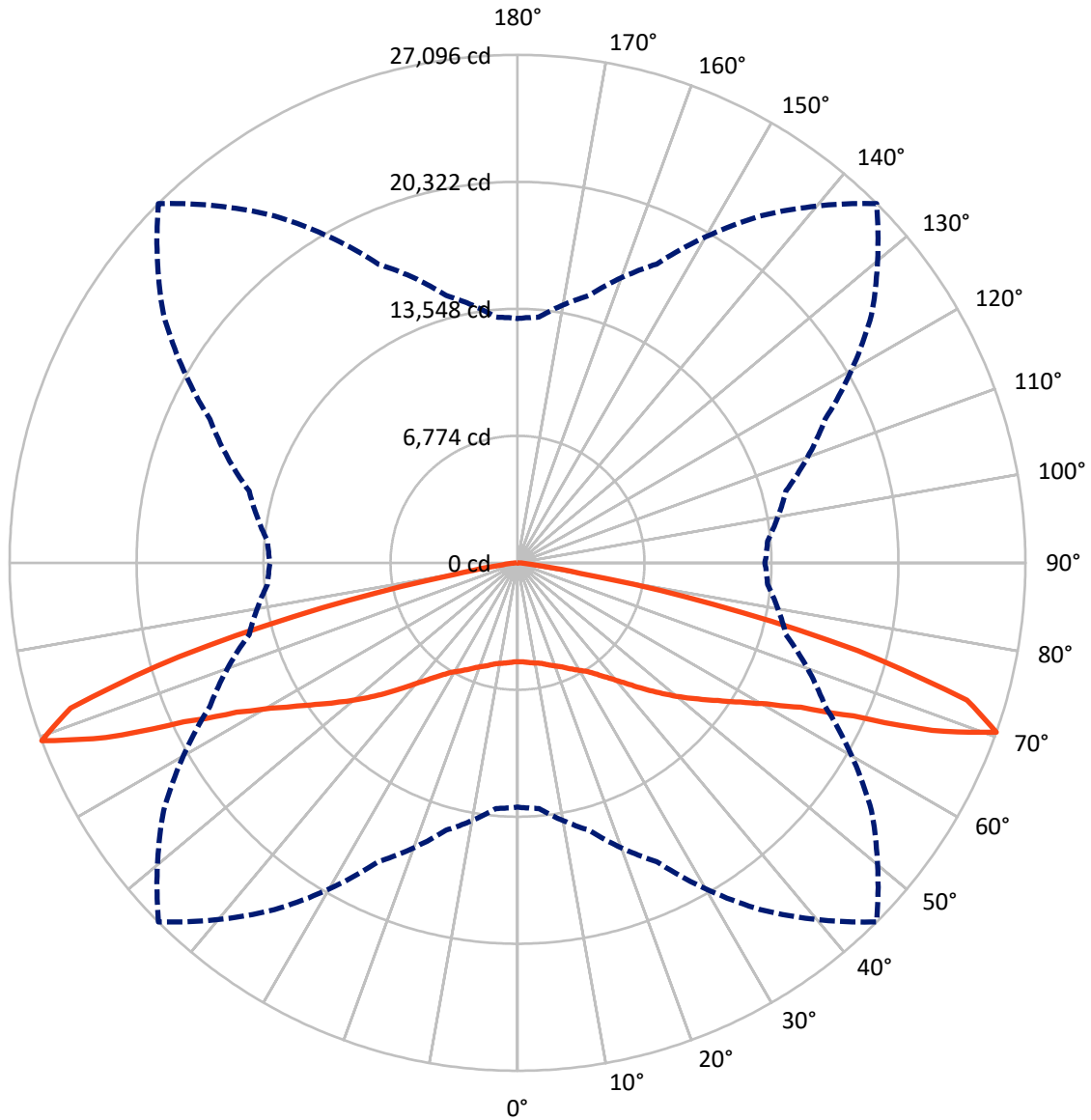
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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 |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 27589.4 | 0.0 | 27589.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 27589.4 | 0.0 | 27589.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 55178.8 | 0.0 | 55178.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 513.5 | 0.9 |
| 10°-20° | 1592.3 | 2.9 |
| 20°-30° | 2845.6 | 5.2 |
| 30°-40° | 4612.7 | 8.4 |
| 40°-50° | 7513.3 | 13.6 |
| 50°-60° | 11455.2 | 20.8 |
| 60°-70° | 17041.7 | 30.9 |
| 70°-80° | 9288.3 | 16.8 |
| 80°-90° | 316.3 | 0.6 |
| 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° | 55178.8 | 100.0 |
| 0°-180° | 55178.8 | 100.0 |

Coefficient of Utilization

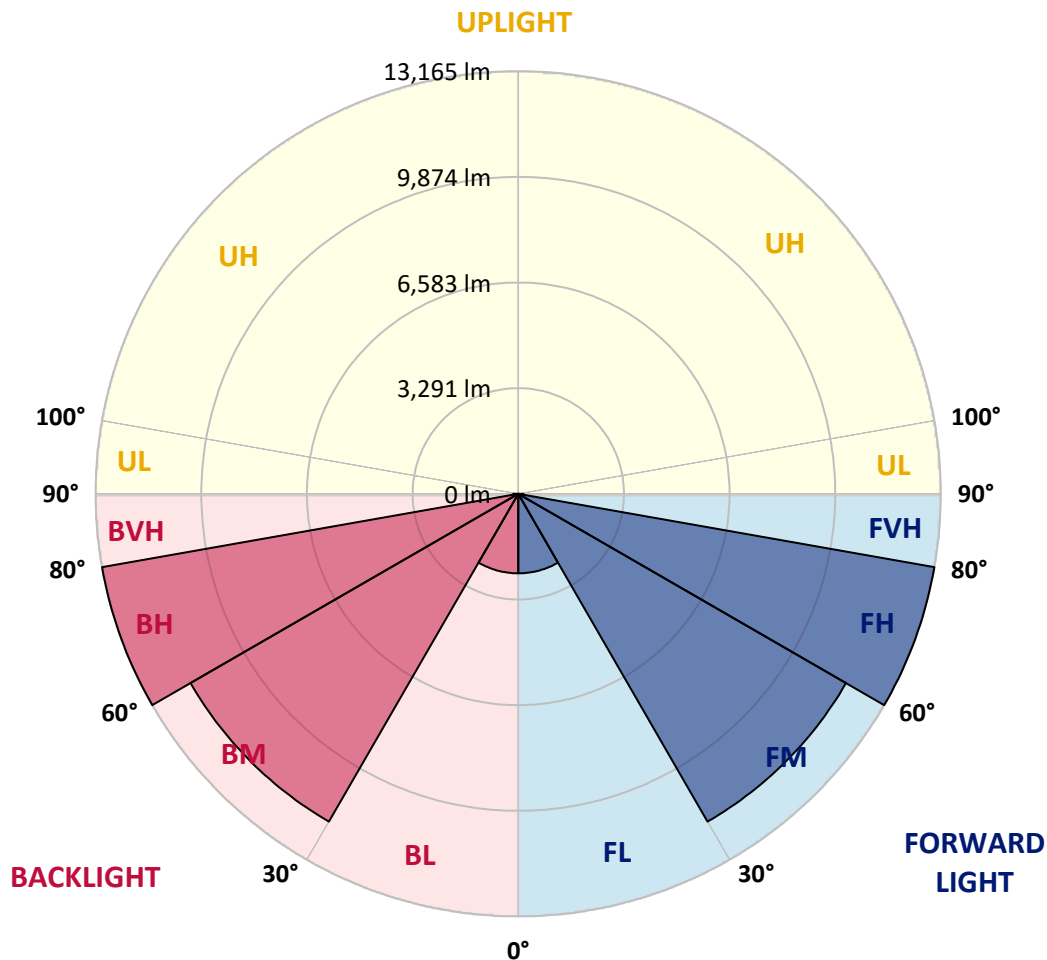


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2475.7 | 4.5 | | | |
| FM (30°-60°) | 11790.6 | 21.4 | | | |
| FH (60°-80°) | 13165.0 | 23.9 | | | G5 |
| FVH (80°-90°) | 158.1 | 0.3 | | | G2/225 |
| BL (0°-30°) | 2475.7 | 4.5 | B3/2500 | | |
| BM (30°-60°) | 11790.6 | 21.4 | B5 | | |
| BH (60°-80°) | 13165.0 | 23.9 | B5 | | G5 |
| BVH (80°-90°) | 158.1 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5
 Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5285.5 | 5285.5 | 5285.5 | 5285.5 | 5285.5 | 5285.5 | 5285.5 | 5285.5 | 5285.5 | 5285.5 | 5285.5 |
| 2.5° | 5310.5 | 5316.1 | 5305.0 | 5299.5 | 5293.9 | 5285.5 | 5288.3 | 5302.2 | 5313.3 | 5310.5 | 5313.3 |
| 5° | 5354.8 | 5360.3 | 5352.0 | 5349.3 | 5338.2 | 5335.4 | 5335.4 | 5349.3 | 5357.6 | 5352.0 | 5354.8 |
| 7.5° | 5404.7 | 5413.0 | 5399.2 | 5396.3 | 5390.8 | 5385.2 | 5382.5 | 5396.3 | 5404.7 | 5404.7 | 5404.7 |
| 10° | 5451.8 | 5460.1 | 5449.0 | 5440.7 | 5435.2 | 5435.2 | 5429.6 | 5440.7 | 5454.5 | 5451.8 | 5451.8 |
| 12.5° | 5501.7 | 5507.2 | 5496.0 | 5490.5 | 5490.5 | 5498.8 | 5490.5 | 5496.0 | 5507.2 | 5501.7 | 5498.8 |
| 15° | 5562.6 | 5565.3 | 5562.6 | 5570.9 | 5584.7 | 5612.5 | 5587.5 | 5581.9 | 5587.5 | 5573.6 | 5573.6 |
| 17.5° | 5645.7 | 5651.2 | 5662.3 | 5681.7 | 5701.0 | 5751.0 | 5706.6 | 5692.7 | 5692.7 | 5665.1 | 5665.1 |
| 20° | 5748.2 | 5756.5 | 5773.1 | 5806.3 | 5831.3 | 5878.4 | 5834.1 | 5814.6 | 5806.3 | 5770.3 | 5770.3 |
| 22.5° | 5856.2 | 5870.1 | 5895.0 | 5939.4 | 5983.6 | 6028.0 | 5983.6 | 5950.4 | 5925.5 | 5878.4 | 5875.6 |
| 25° | 5980.9 | 5997.5 | 6036.3 | 6108.3 | 6169.3 | 6232.9 | 6180.3 | 6113.8 | 6064.0 | 5997.5 | 5994.7 |
| 27.5° | 6158.2 | 6177.6 | 6224.6 | 6313.3 | 6390.9 | 6446.3 | 6396.4 | 6310.5 | 6241.3 | 6161.0 | 6158.2 |
| 30° | 6407.5 | 6426.9 | 6482.3 | 6576.5 | 6629.1 | 6665.2 | 6631.9 | 6565.4 | 6482.3 | 6390.9 | 6390.9 |
| 32.5° | 6728.8 | 6753.7 | 6814.7 | 6903.4 | 6914.4 | 6920.0 | 6908.9 | 6875.7 | 6814.7 | 6703.9 | 6706.7 |
| 35° | 7136.0 | 7163.7 | 7233.0 | 7305.1 | 7294.0 | 7305.1 | 7288.5 | 7277.3 | 7233.0 | 7105.6 | 7105.6 |
| 37.5° | 7634.7 | 7667.9 | 7740.0 | 7795.3 | 7767.7 | 7753.8 | 7756.6 | 7759.4 | 7734.4 | 7593.1 | 7593.1 |
| 40° | 8213.6 | 8258.0 | 8310.6 | 8368.8 | 8321.7 | 8280.2 | 8307.8 | 8330.0 | 8307.8 | 8163.8 | 8163.8 |
| 42.5° | 8809.3 | 8873.0 | 8928.4 | 9011.5 | 8972.7 | 8920.1 | 8958.8 | 8983.8 | 8936.7 | 8781.6 | 8792.7 |
| 45° | 9471.3 | 9532.3 | 9604.4 | 9729.0 | 9701.3 | 9645.9 | 9701.3 | 9706.9 | 9626.5 | 9443.6 | 9463.0 |
| 47.5° | 10155.6 | 10219.4 | 10327.4 | 10493.5 | 10482.5 | 10421.5 | 10493.5 | 10454.8 | 10352.3 | 10133.5 | 10119.6 |
| 50° | 10803.8 | 10892.5 | 11058.7 | 11291.4 | 11313.5 | 11238.7 | 11335.7 | 11260.9 | 11089.2 | 10814.9 | 10809.3 |
| 52.5° | 11413.3 | 11507.5 | 11770.6 | 12086.4 | 12166.7 | 12069.8 | 12200.0 | 12069.8 | 11812.2 | 11460.3 | 11427.1 |
| 55° | 12053.2 | 12158.4 | 12471.5 | 12884.2 | 13044.9 | 12972.9 | 13094.8 | 12898.1 | 12532.5 | 12105.9 | 12047.6 |
| 57.5° | 12806.7 | 12870.4 | 13244.3 | 13734.7 | 14006.2 | 14022.8 | 14078.2 | 13745.8 | 13302.6 | 12817.7 | 12751.3 |
| 60° | 13623.9 | 13712.6 | 14119.8 | 14707.0 | 15136.4 | 15275.0 | 15216.7 | 14723.7 | 14208.4 | 13651.6 | 13562.9 |
| 62.5° | 14671.0 | 14768.0 | 15255.6 | 15959.1 | 16637.9 | 16981.4 | 16754.2 | 16039.5 | 15402.4 | 14734.8 | 14618.4 |
| 65° | 15538.1 | 15646.1 | 16527.1 | 17782.0 | 19017.4 | 19707.3 | 19136.6 | 17820.8 | 16673.9 | 15732.0 | 15576.9 |
| 67.5° | 14909.2 | 15042.3 | 16424.6 | 18729.4 | 21801.5 | 23859.8 | 21906.8 | 19011.9 | 16765.3 | 15488.3 | 15297.1 |
| 70° | 13031.0 | 13155.8 | 14768.0 | 17585.3 | 22585.6 | 27095.5 | 23056.5 | 18103.3 | 14820.6 | 13391.2 | 13200.1 |
| 72.5° | 8651.4 | 9053.0 | 10684.7 | 14064.3 | 20167.1 | 25073.1 | 20366.5 | 13779.0 | 9911.9 | 8631.9 | 8352.2 |
| 75° | 2869.9 | 3191.2 | 4304.9 | 7291.2 | 13507.6 | 18751.6 | 12859.3 | 6451.9 | 3410.2 | 2454.4 | 2321.4 |
| 77.5° | 723.0 | 833.8 | 1149.6 | 2086.0 | 5388.0 | 10676.4 | 4850.6 | 1703.7 | 928.0 | 648.2 | 579.0 |
| 80° | 351.8 | 387.9 | 554.0 | 695.4 | 1349.1 | 3393.5 | 1266.0 | 653.7 | 437.7 | 337.9 | 310.3 |
| 82.5° | 193.9 | 196.7 | 313.0 | 393.4 | 501.4 | 878.1 | 520.8 | 382.3 | 252.0 | 205.0 | 205.0 |
| 85° | 119.1 | 116.3 | 166.3 | 210.5 | 210.5 | 313.0 | 249.3 | 210.5 | 144.0 | 127.4 | 132.9 |
| 87.5° | 47.0 | 47.0 | 61.0 | 66.5 | 58.2 | 80.4 | 63.8 | 69.3 | 55.5 | 52.7 | 55.5 |
| 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)