

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: P968213

Luminaire Tested: **NAV-SB5B-730-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968213
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5B-730-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30023.3 lumens
Efficiency: N/A
Efficacy: 164.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

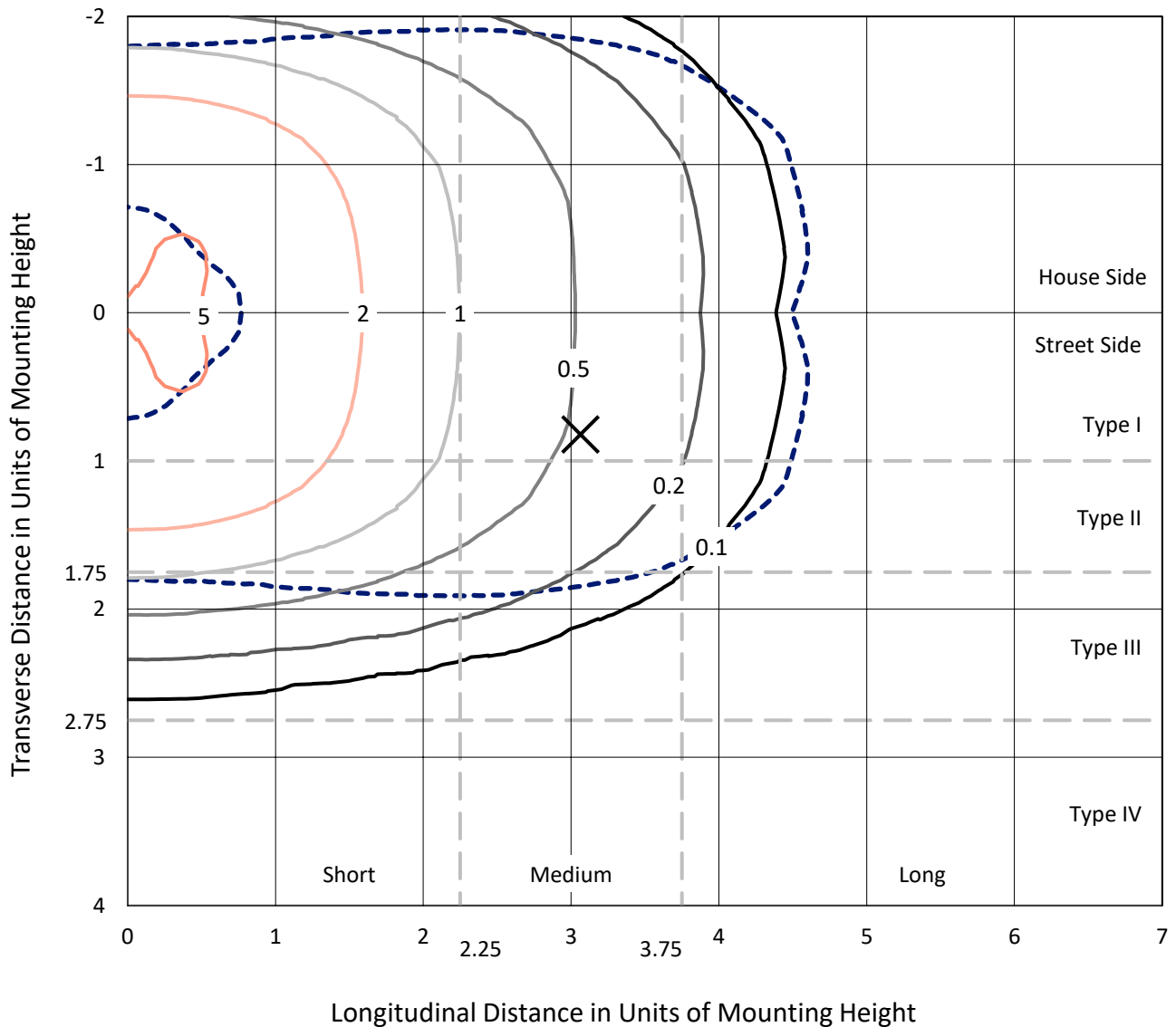
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

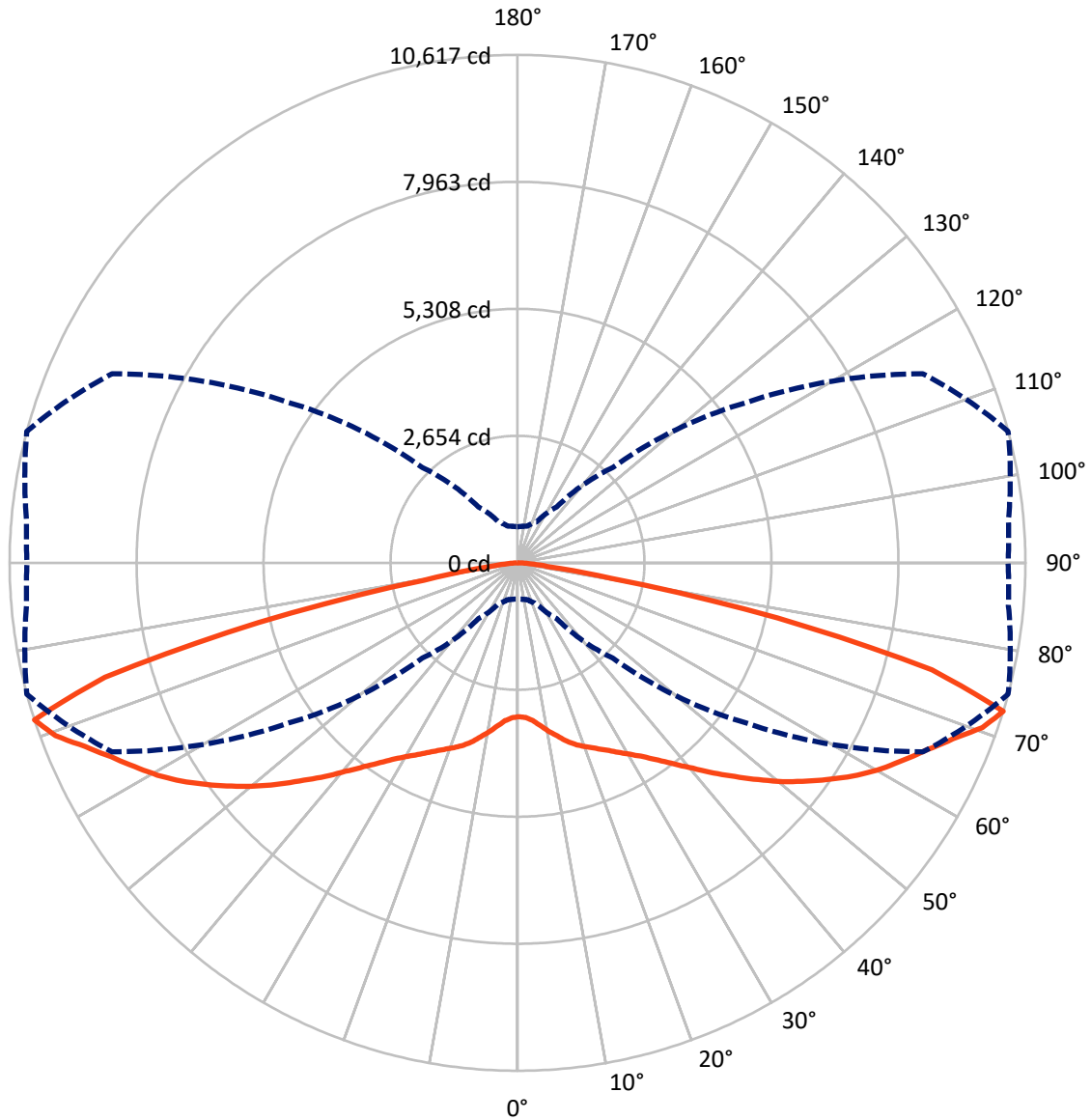
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 15011.6 | 0.0 | 15011.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 15011.6 | 0.0 | 15011.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 30023.3 | 0.0 | 30023.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 315.0 | 1.0 |
| 10°-20° | 1039.1 | 3.5 |
| 20°-30° | 2007.8 | 6.7 |
| 30°-40° | 3390.2 | 11.3 |
| 40°-50° | 5376.5 | 17.9 |
| 50°-60° | 7198.5 | 24.0 |
| 60°-70° | 6850.7 | 22.8 |
| 70°-80° | 3574.8 | 11.9 |
| 80°-90° | 270.6 | 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° | 30023.3 | 100.0 |
| 0°-180° | 30023.3 | 100.0 |

Coefficient of Utilization

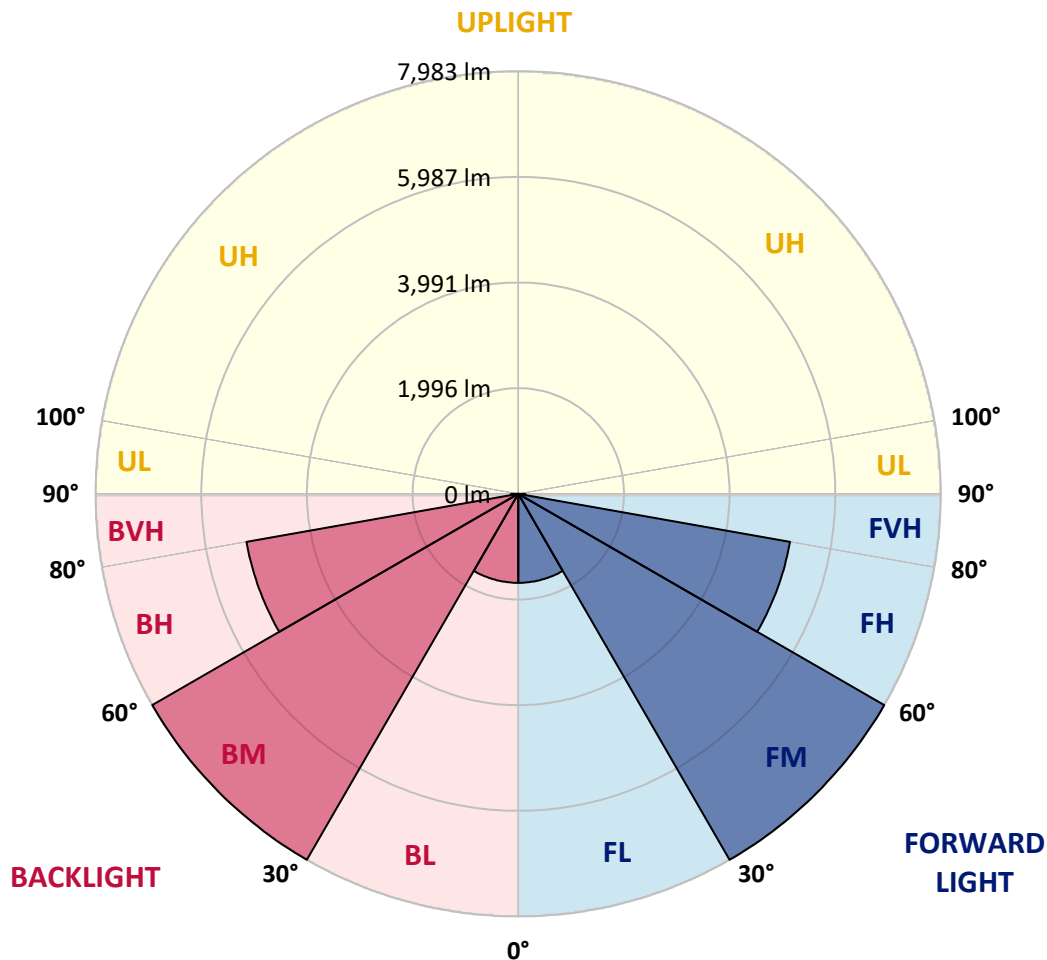


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1680.9 | 5.6 | | | |
| FM (30°-60°) | 7982.6 | 26.6 | | | |
| FH (60°-80°) | 5212.8 | 17.4 | | | G3/7500 |
| FVH (80°-90°) | 135.3 | 0.5 | | | G2/225 |
| BL (0°-30°) | 1680.9 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 7982.6 | 26.6 | B4/8500 | | |
| BH (60°-80°) | 5212.8 | 17.4 | B5 | | G5 |
| BVH (80°-90°) | 135.3 | 0.5 | | | 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 III Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 3216.0 | 3216.0 | 3216.0 | 3216.0 | 3216.0 | 3216.0 | 3216.0 | 3216.0 | 3216.0 | 3216.0 | 3216.0 |
| 2.5° | 3216.0 | 3213.0 | 3216.0 | 3219.1 | 3217.6 | 3217.6 | 3225.3 | 3229.9 | 3239.0 | 3237.5 | 3235.9 |
| 5° | 3194.6 | 3193.1 | 3205.3 | 3219.1 | 3229.9 | 3248.2 | 3271.2 | 3288.1 | 3309.5 | 3314.1 | 3314.1 |
| 7.5° | 3183.9 | 3179.2 | 3200.7 | 3225.3 | 3259.0 | 3304.9 | 3349.4 | 3395.4 | 3432.2 | 3444.4 | 3447.5 |
| 10° | 3191.5 | 3193.1 | 3222.2 | 3268.1 | 3321.8 | 3386.2 | 3449.0 | 3527.2 | 3579.3 | 3591.6 | 3603.9 |
| 12.5° | 3226.8 | 3223.7 | 3272.7 | 3346.3 | 3419.9 | 3501.2 | 3574.7 | 3660.6 | 3717.3 | 3746.4 | 3758.7 |
| 15° | 3291.2 | 3285.0 | 3354.0 | 3462.9 | 3570.2 | 3665.2 | 3725.0 | 3806.2 | 3872.1 | 3908.9 | 3922.7 |
| 17.5° | 3367.7 | 3370.8 | 3461.3 | 3602.4 | 3743.3 | 3850.6 | 3907.4 | 3948.7 | 3999.3 | 4031.5 | 4046.9 |
| 20° | 3502.7 | 3508.8 | 3609.9 | 3777.0 | 3938.0 | 4060.6 | 4106.7 | 4091.3 | 4105.1 | 4129.6 | 4148.1 |
| 22.5° | 3683.5 | 3686.6 | 3800.1 | 3981.0 | 4149.6 | 4284.5 | 4315.1 | 4252.3 | 4214.0 | 4230.8 | 4243.1 |
| 25° | 3893.6 | 3913.4 | 4026.9 | 4212.4 | 4385.7 | 4514.4 | 4528.2 | 4433.1 | 4338.1 | 4342.7 | 4350.4 |
| 27.5° | 4149.6 | 4168.0 | 4283.0 | 4466.8 | 4643.1 | 4755.1 | 4753.5 | 4626.3 | 4486.8 | 4451.6 | 4462.2 |
| 30° | 4427.0 | 4447.0 | 4564.9 | 4755.1 | 4919.1 | 5017.2 | 4995.7 | 4843.9 | 4644.7 | 4578.8 | 4586.5 |
| 32.5° | 4756.6 | 4768.8 | 4888.4 | 5078.5 | 5230.3 | 5308.5 | 5264.0 | 5076.9 | 4828.7 | 4753.5 | 4771.9 |
| 35° | 5155.1 | 5173.6 | 5262.5 | 5441.8 | 5575.2 | 5639.5 | 5564.4 | 5343.7 | 5064.7 | 4980.4 | 4992.7 |
| 37.5° | 5610.4 | 5598.1 | 5699.3 | 5858.8 | 5969.1 | 6009.0 | 5906.3 | 5644.2 | 5334.5 | 5234.9 | 5253.2 |
| 40° | 6085.6 | 6079.5 | 6189.9 | 6343.1 | 6403.0 | 6427.5 | 6275.7 | 5989.1 | 5645.7 | 5538.4 | 5573.6 |
| 42.5° | 6516.3 | 6511.7 | 6660.4 | 6830.6 | 6902.7 | 6875.1 | 6683.4 | 6355.4 | 6005.9 | 5883.3 | 5913.9 |
| 45° | 6861.2 | 6855.1 | 7037.5 | 7276.7 | 7417.7 | 7371.7 | 7114.2 | 6760.1 | 6370.8 | 6243.5 | 6272.6 |
| 47.5° | 7126.4 | 7129.5 | 7325.8 | 7621.6 | 7868.4 | 7885.2 | 7554.1 | 7172.4 | 6772.4 | 6628.3 | 6671.2 |
| 50° | 7318.1 | 7327.3 | 7537.2 | 7865.3 | 8202.6 | 8351.3 | 8003.3 | 7595.6 | 7187.8 | 7025.2 | 7074.3 |
| 52.5° | 7365.5 | 7382.5 | 7635.4 | 8020.1 | 8417.2 | 8700.7 | 8460.0 | 8001.8 | 7581.7 | 7426.9 | 7466.8 |
| 55° | 7112.7 | 7146.4 | 7466.8 | 8007.9 | 8549.0 | 8930.7 | 8861.7 | 8414.1 | 7978.8 | 7819.3 | 7863.8 |
| 57.5° | 6531.7 | 6579.3 | 6953.3 | 7659.9 | 8519.9 | 9088.6 | 9172.9 | 8809.6 | 8375.8 | 8222.4 | 8257.7 |
| 60° | 5717.8 | 5774.4 | 6133.2 | 6904.2 | 8109.1 | 9146.8 | 9392.1 | 9194.4 | 8740.6 | 8592.0 | 8624.1 |
| 62.5° | 4489.9 | 4563.4 | 4992.7 | 5897.0 | 7241.4 | 8875.5 | 9579.1 | 9542.3 | 9068.7 | 8883.2 | 8904.6 |
| 65° | 2880.4 | 2958.5 | 3410.7 | 4479.1 | 6084.1 | 8044.7 | 9637.4 | 9881.1 | 9415.1 | 9156.0 | 9188.2 |
| 67.5° | 1736.8 | 1772.0 | 1995.9 | 2714.8 | 4447.0 | 6792.3 | 9143.7 | 10256.7 | 9819.8 | 9497.9 | 9522.4 |
| 70° | 1111.3 | 1131.3 | 1264.6 | 1594.2 | 2513.9 | 4955.9 | 7920.5 | 10327.2 | 10310.3 | 9848.9 | 9845.8 |
| 72.5° | 754.2 | 760.3 | 795.6 | 944.2 | 1422.5 | 2816.0 | 5841.9 | 9349.1 | 10616.8 | 10301.1 | 10252.0 |
| 75° | 551.9 | 585.6 | 642.3 | 668.3 | 807.8 | 1407.2 | 3347.9 | 6568.5 | 8947.5 | 9085.5 | 8751.3 |
| 77.5° | 410.8 | 412.4 | 490.6 | 521.2 | 576.4 | 749.6 | 1416.4 | 3666.7 | 5555.2 | 5832.7 | 5202.7 |
| 80° | 348.0 | 329.5 | 328.0 | 420.0 | 433.8 | 467.5 | 633.0 | 1266.2 | 1989.7 | 1206.4 | 912.0 |
| 82.5° | 289.8 | 269.8 | 243.7 | 328.0 | 295.8 | 286.7 | 274.4 | 515.1 | 633.0 | 311.2 | 265.2 |
| 85° | 202.3 | 193.1 | 184.0 | 214.6 | 168.6 | 144.1 | 131.8 | 240.7 | 266.7 | 131.8 | 116.5 |
| 87.5° | 87.3 | 90.4 | 91.9 | 95.0 | 70.5 | 50.6 | 50.6 | 67.4 | 67.4 | 52.1 | 38.3 |
| 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)