

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: P528900

Luminaire Tested: **GLAN-SA4A-735-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528900
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4A-735-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15180 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

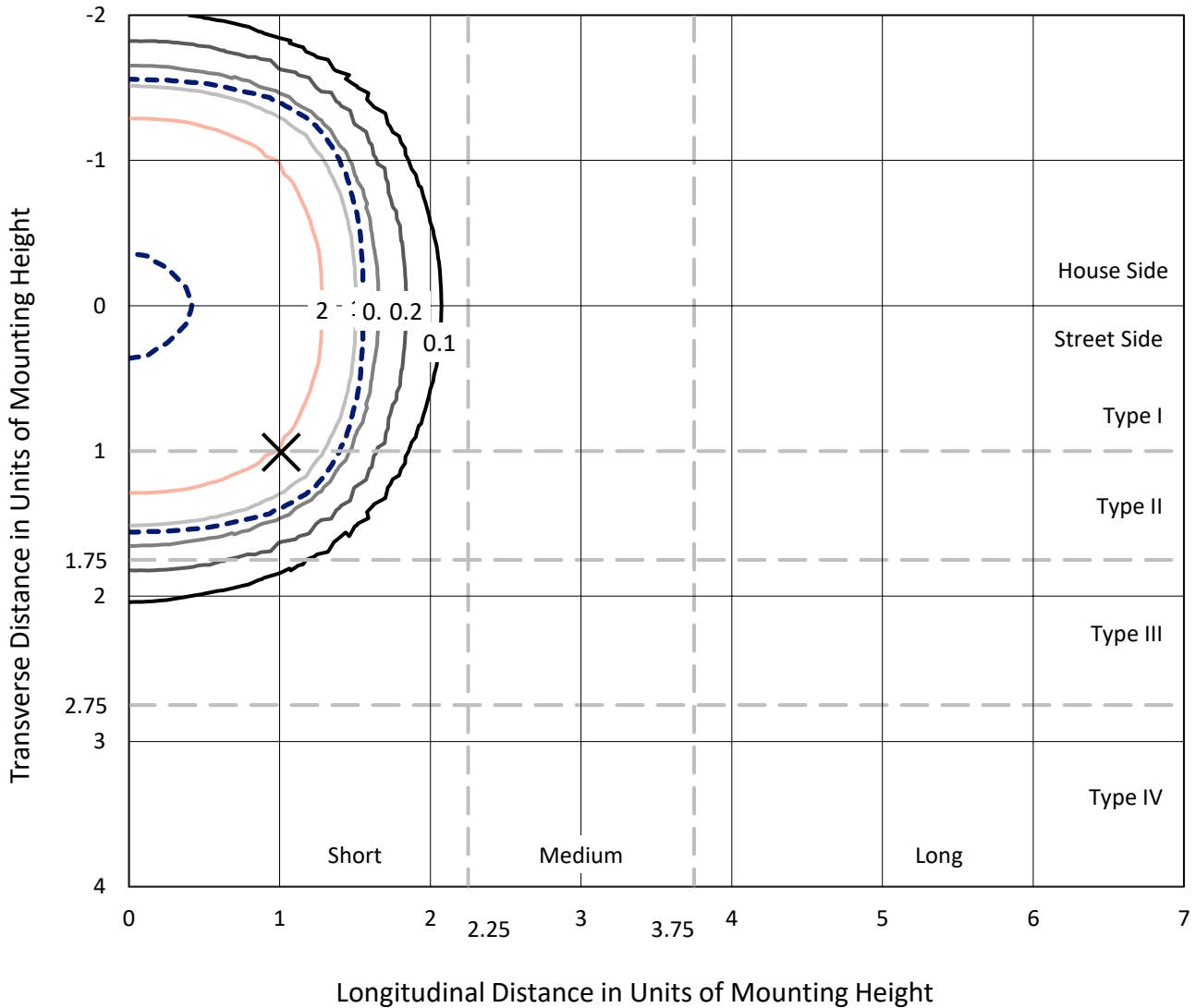
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

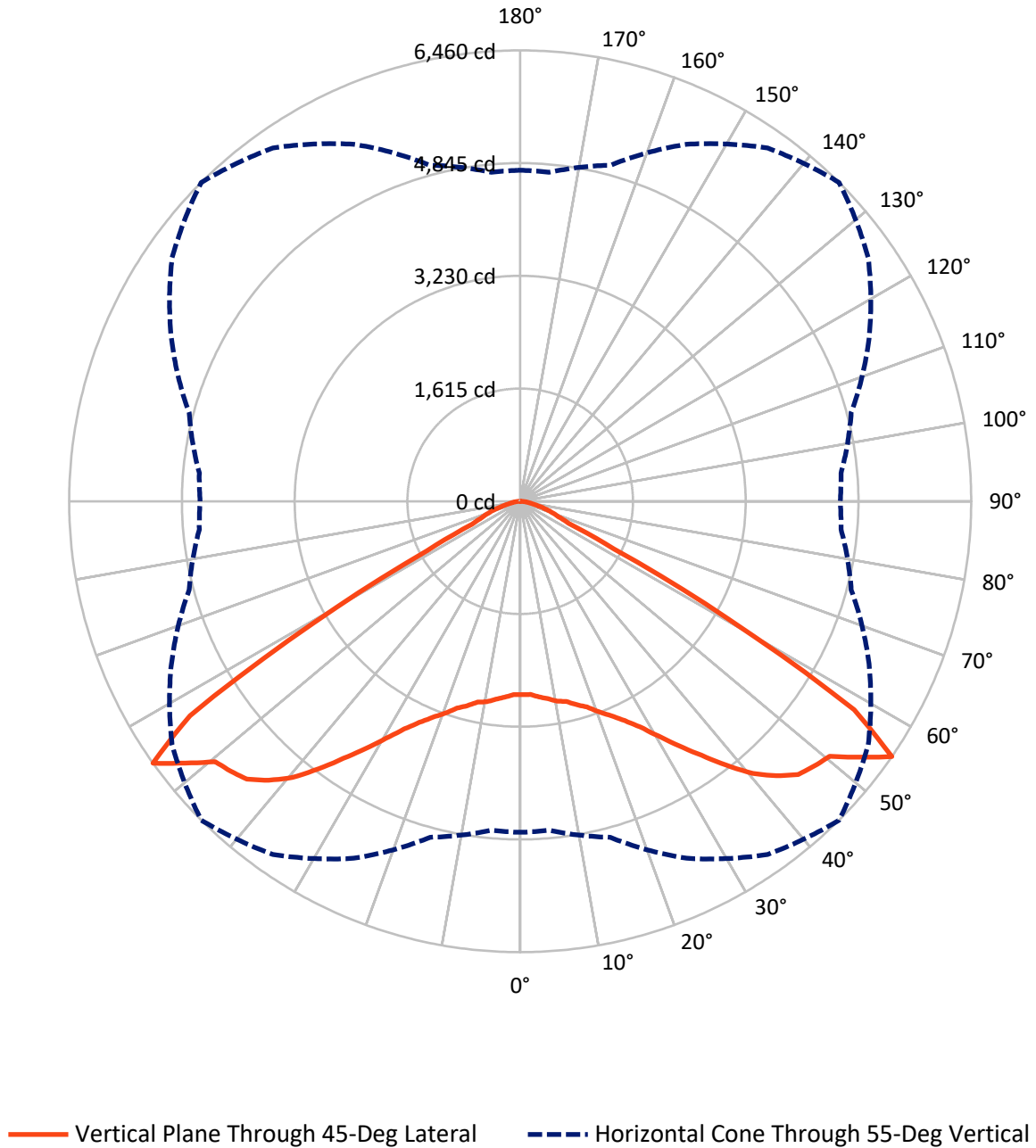
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7590.0 | 0.0 | 7590.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 7590.0 | 0.0 | 7590.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 15180.0 | 0.0 | 15180.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 270.8 | 1.8 |
| 10°-20° | 857.9 | 5.7 |
| 20°-30° | 1599.7 | 10.5 |
| 30°-40° | 2678.5 | 17.6 |
| 40°-50° | 4167.9 | 27.5 |
| 50°-60° | 4327.6 | 28.5 |
| 60°-70° | 917.7 | 6.0 |
| 70°-80° | 302.2 | 2.0 |
| 80°-90° | 57.6 | 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° | 15180.0 | 100.0 |
| 0°-180° | 15180.0 | 100.0 |

Coefficient of Utilization

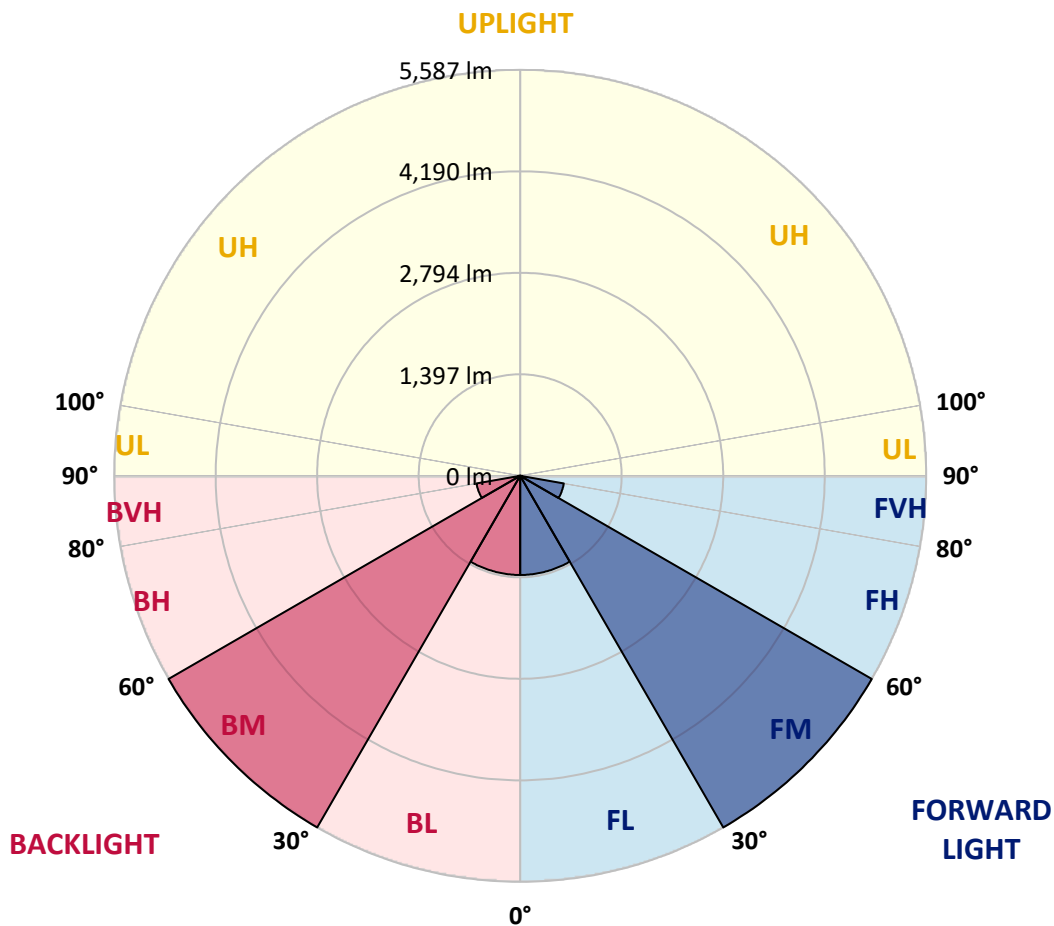


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1364.2 | 9.0 | | | |
| FM (30°-60°) | 5587.0 | 36.8 | | | |
| FH (60°-80°) | 610.0 | 4.0 | | | G0/660 |
| FVH (80°-90°) | 28.8 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1364.2 | 9.0 | B3/2500 | | |
| BM (30°-60°) | 5587.0 | 36.8 | B4/8500 | | |
| BH (60°-80°) | 610.0 | 4.0 | B2/1000 | | G0/660 |
| BVH (80°-90°) | 28.8 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2771.6 | 2771.6 | 2771.6 | 2771.6 | 2771.6 | 2771.6 | 2771.6 | 2771.6 | 2771.6 | 2771.6 | 2771.6 |
| 2.5° | 2804.7 | 2791.8 | 2769.8 | 2786.3 | 2799.2 | 2771.6 | 2782.6 | 2788.2 | 2784.5 | 2769.8 | 2775.3 |
| 5° | 2845.0 | 2837.7 | 2819.3 | 2832.2 | 2815.7 | 2815.7 | 2804.7 | 2790.0 | 2812.0 | 2808.3 | 2817.5 |
| 7.5° | 2845.0 | 2835.8 | 2872.5 | 2848.7 | 2856.0 | 2856.0 | 2837.7 | 2823.0 | 2834.0 | 2817.5 | 2808.3 |
| 10° | 2901.9 | 2914.7 | 2898.2 | 2903.7 | 2900.0 | 2912.9 | 2885.4 | 2876.2 | 2867.0 | 2861.5 | 2850.5 |
| 12.5° | 2969.7 | 2960.6 | 2966.1 | 2962.4 | 2975.2 | 2942.2 | 2925.7 | 2905.5 | 2922.1 | 2898.2 | 2914.7 |
| 15° | 3024.8 | 3019.3 | 3024.8 | 3039.5 | 3026.6 | 3024.8 | 2995.4 | 2975.2 | 2949.6 | 2955.1 | 2929.4 |
| 17.5° | 3100.0 | 3094.5 | 3096.3 | 3109.2 | 3107.3 | 3098.1 | 3076.1 | 3037.6 | 3028.4 | 3013.8 | 2997.3 |
| 20° | 3211.9 | 3202.7 | 3199.0 | 3204.5 | 3213.7 | 3221.0 | 3177.0 | 3162.3 | 3131.2 | 3107.3 | 3079.8 |
| 22.5° | 3307.3 | 3303.6 | 3318.3 | 3294.4 | 3314.6 | 3336.6 | 3294.4 | 3287.1 | 3210.0 | 3197.2 | 3167.9 |
| 25° | 3439.3 | 3433.8 | 3424.7 | 3459.5 | 3483.4 | 3481.5 | 3441.2 | 3400.8 | 3342.1 | 3327.4 | 3327.4 |
| 27.5° | 3578.7 | 3547.6 | 3595.2 | 3604.4 | 3646.6 | 3659.4 | 3624.6 | 3565.9 | 3510.9 | 3479.7 | 3487.0 |
| 30° | 3753.0 | 3723.6 | 3734.7 | 3800.7 | 3855.7 | 3903.4 | 3815.4 | 3729.2 | 3652.1 | 3597.1 | 3587.9 |
| 32.5° | 3927.3 | 3897.9 | 3930.9 | 3995.1 | 4105.2 | 4176.7 | 4090.5 | 3940.1 | 3850.2 | 3769.5 | 3786.0 |
| 35° | 4068.5 | 4090.5 | 4143.7 | 4240.9 | 4354.7 | 4470.2 | 4332.6 | 4217.1 | 4088.7 | 3998.8 | 4011.6 |
| 37.5° | 4296.0 | 4363.8 | 4406.0 | 4517.9 | 4679.3 | 4798.6 | 4655.5 | 4505.1 | 4367.5 | 4250.1 | 4209.7 |
| 40° | 4593.1 | 4639.0 | 4686.7 | 4818.7 | 5009.5 | 5128.7 | 4993.0 | 4796.7 | 4661.0 | 4539.9 | 4534.4 |
| 42.5° | 4919.6 | 4963.6 | 5013.2 | 5174.6 | 5288.3 | 5378.2 | 5253.5 | 5148.9 | 4998.5 | 4903.1 | 4897.6 |
| 45° | 5299.3 | 5268.1 | 5323.2 | 5429.6 | 5524.9 | 5583.6 | 5502.9 | 5451.6 | 5343.3 | 5255.3 | 5246.1 |
| 47.5° | 5552.5 | 5524.9 | 5624.0 | 5719.4 | 5734.1 | 5669.9 | 5686.4 | 5734.1 | 5620.3 | 5475.4 | 5521.3 |
| 50° | 5699.2 | 5699.2 | 5765.2 | 5853.3 | 5825.8 | 5743.2 | 5873.5 | 5877.1 | 5763.4 | 5635.0 | 5635.0 |
| 52.5° | 5444.2 | 5501.1 | 5688.2 | 5976.2 | 6067.9 | 6091.7 | 6062.4 | 5937.7 | 5640.5 | 5378.2 | 5365.4 |
| 55° | 4743.5 | 4730.7 | 4983.8 | 5644.2 | 6178.0 | 6460.4 | 6086.2 | 5512.1 | 4908.6 | 4613.3 | 4583.9 |
| 57.5° | 3085.3 | 3100.0 | 3477.9 | 4151.0 | 5114.1 | 5640.5 | 5009.5 | 4202.4 | 3477.9 | 3070.6 | 3109.2 |
| 60° | 1388.6 | 1438.1 | 1667.4 | 2170.0 | 2997.3 | 3426.5 | 3004.6 | 2280.0 | 1749.9 | 1518.8 | 1539.0 |
| 62.5° | 797.9 | 807.1 | 816.3 | 968.5 | 1276.7 | 1509.6 | 1326.2 | 1023.5 | 902.5 | 862.1 | 862.1 |
| 65° | 673.2 | 667.7 | 669.5 | 682.4 | 715.4 | 763.1 | 742.9 | 715.4 | 719.0 | 715.4 | 709.9 |
| 67.5° | 572.3 | 579.6 | 574.1 | 583.3 | 585.1 | 592.5 | 605.3 | 616.3 | 618.2 | 621.8 | 618.2 |
| 70° | 469.6 | 471.4 | 475.1 | 482.4 | 484.3 | 489.8 | 508.1 | 517.3 | 522.8 | 522.8 | 530.1 |
| 72.5° | 359.5 | 357.7 | 361.4 | 368.7 | 377.9 | 379.7 | 396.2 | 409.1 | 416.4 | 407.2 | 409.1 |
| 75° | 236.6 | 238.5 | 244.0 | 249.5 | 262.3 | 275.1 | 280.6 | 293.5 | 295.3 | 299.0 | 289.8 |
| 77.5° | 141.2 | 144.9 | 150.4 | 161.4 | 172.4 | 183.4 | 196.3 | 205.4 | 209.1 | 205.4 | 194.4 |
| 80° | 91.7 | 91.7 | 99.1 | 108.2 | 121.1 | 130.2 | 137.6 | 144.9 | 150.4 | 144.9 | 141.2 |
| 82.5° | 56.9 | 56.9 | 66.0 | 77.0 | 86.2 | 91.7 | 102.7 | 111.9 | 117.4 | 113.7 | 108.2 |
| 85° | 29.3 | 31.2 | 38.5 | 47.7 | 55.0 | 58.7 | 56.9 | 51.4 | 45.9 | 44.0 | 40.4 |
| 87.5° | 9.2 | 9.2 | 11.0 | 11.0 | 9.2 | 9.2 | 11.0 | 9.2 | 11.0 | 11.0 | 11.0 |
| 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)