

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: McGRAW-EDISON

Report Number: P528770

Luminaire Tested: **GALN-SA3D-827-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528770
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: McGRAW-EDISON
Catalog Number: GALN-SA3D-827-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1200mA 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: 15291 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

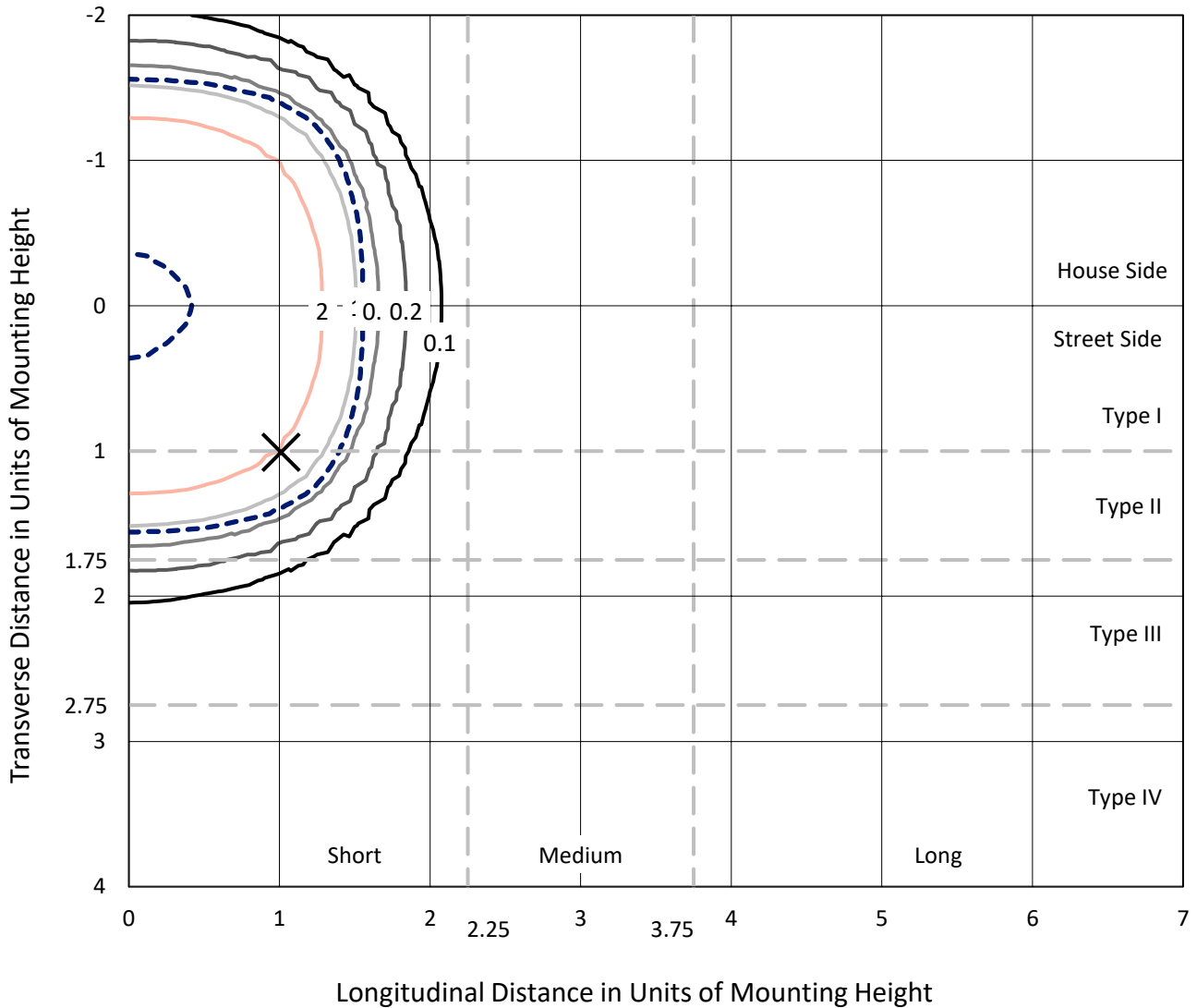
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

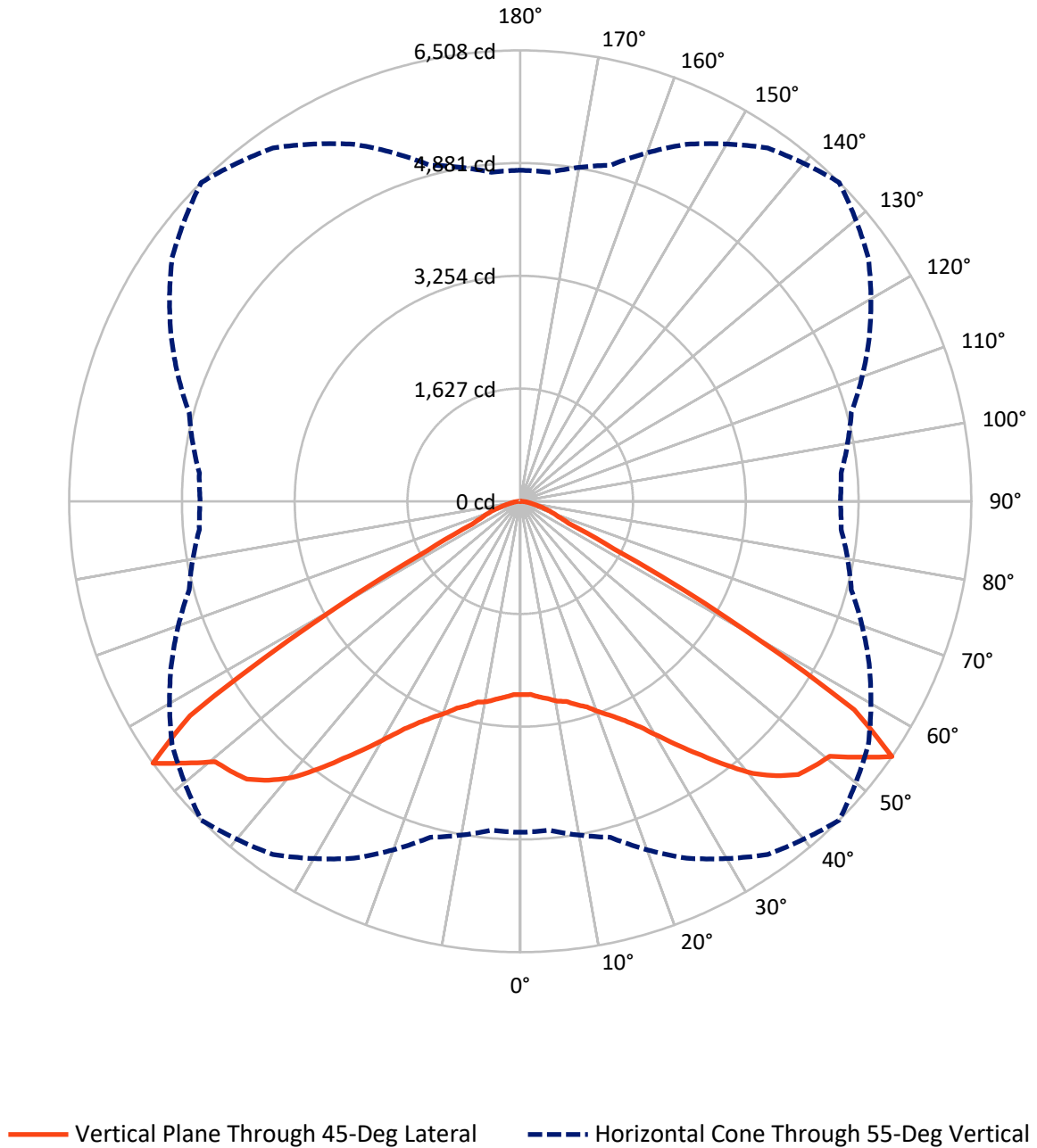
✕ Max cd
 - - - 1/2 Max cd



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 | 7645.5 | 0.0 | 7645.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 7645.5 | 0.0 | 7645.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 15291.0 | 0.0 | 15291.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 272.7 | 1.8 |
| 10°-20° | 864.2 | 5.7 |
| 20°-30° | 1611.4 | 10.5 |
| 30°-40° | 2698.1 | 17.6 |
| 40°-50° | 4198.4 | 27.5 |
| 50°-60° | 4359.3 | 28.5 |
| 60°-70° | 924.5 | 6.0 |
| 70°-80° | 304.5 | 2.0 |
| 80°-90° | 58.0 | 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° | 15291.0 | 100.0 |
| 0°-180° | 15291.0 | 100.0 |

Coefficient of Utilization

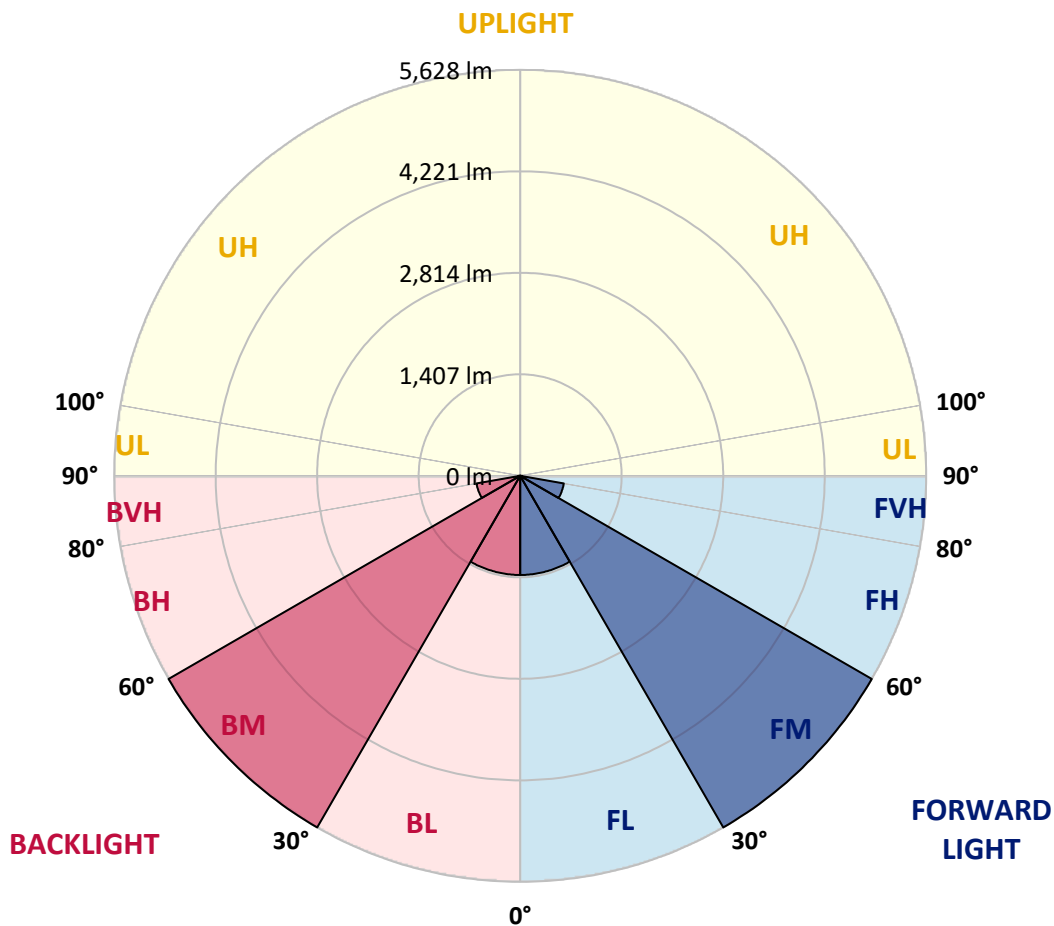


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1374.2 | 9.0 | | | |
| FM (30°-60°) | 5627.9 | 36.8 | | | |
| FH (60°-80°) | 614.5 | 4.0 | | | G0/660 |
| FVH (80°-90°) | 29.0 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1374.2 | 9.0 | B3/2500 | | |
| BM (30°-60°) | 5627.9 | 36.8 | B4/8500 | | |
| BH (60°-80°) | 614.5 | 4.0 | B2/1000 | | G0/660 |
| BVH (80°-90°) | 29.0 | 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° | 2791.9 | 2791.9 | 2791.9 | 2791.9 | 2791.9 | 2791.9 | 2791.9 | 2791.9 | 2791.9 | 2791.9 | 2791.9 |
| 2.5° | 2825.2 | 2812.2 | 2790.1 | 2806.7 | 2819.6 | 2791.9 | 2803.0 | 2808.5 | 2804.8 | 2790.1 | 2795.6 |
| 5° | 2865.8 | 2858.4 | 2839.9 | 2852.9 | 2836.3 | 2836.3 | 2825.2 | 2810.4 | 2832.6 | 2828.9 | 2838.1 |
| 7.5° | 2865.8 | 2856.6 | 2893.5 | 2869.5 | 2876.9 | 2876.9 | 2858.4 | 2843.6 | 2854.7 | 2838.1 | 2828.9 |
| 10° | 2923.1 | 2936.0 | 2919.4 | 2924.9 | 2921.2 | 2934.2 | 2906.5 | 2897.2 | 2888.0 | 2882.4 | 2871.4 |
| 12.5° | 2991.5 | 2982.2 | 2987.8 | 2984.1 | 2997.0 | 2963.7 | 2947.1 | 2926.8 | 2943.4 | 2919.4 | 2936.0 |
| 15° | 3046.9 | 3041.4 | 3046.9 | 3061.7 | 3048.7 | 3046.9 | 3017.3 | 2997.0 | 2971.1 | 2976.7 | 2950.8 |
| 17.5° | 3122.7 | 3117.1 | 3119.0 | 3131.9 | 3130.0 | 3120.8 | 3098.6 | 3059.8 | 3050.6 | 3035.8 | 3019.2 |
| 20° | 3235.4 | 3226.1 | 3222.4 | 3228.0 | 3237.2 | 3244.6 | 3200.3 | 3185.5 | 3154.1 | 3130.0 | 3102.3 |
| 22.5° | 3331.4 | 3327.7 | 3342.5 | 3318.5 | 3338.8 | 3361.0 | 3318.5 | 3311.1 | 3233.5 | 3220.6 | 3191.0 |
| 25° | 3464.5 | 3458.9 | 3449.7 | 3484.8 | 3508.8 | 3507.0 | 3466.3 | 3425.7 | 3366.6 | 3351.8 | 3351.8 |
| 27.5° | 3604.9 | 3573.5 | 3621.5 | 3630.8 | 3673.3 | 3686.2 | 3651.1 | 3592.0 | 3536.5 | 3505.1 | 3512.5 |
| 30° | 3780.4 | 3750.9 | 3762.0 | 3828.5 | 3883.9 | 3932.0 | 3843.3 | 3756.4 | 3678.8 | 3623.4 | 3614.1 |
| 32.5° | 3956.0 | 3926.4 | 3959.7 | 4024.3 | 4135.2 | 4207.3 | 4120.4 | 3968.9 | 3878.4 | 3797.1 | 3813.7 |
| 35° | 4098.2 | 4120.4 | 4174.0 | 4271.9 | 4386.5 | 4502.9 | 4364.3 | 4247.9 | 4118.6 | 4028.0 | 4041.0 |
| 37.5° | 4327.4 | 4395.7 | 4438.2 | 4550.9 | 4713.5 | 4833.6 | 4689.5 | 4538.0 | 4399.4 | 4281.2 | 4240.5 |
| 40° | 4626.7 | 4672.9 | 4720.9 | 4854.0 | 5046.1 | 5166.2 | 5029.5 | 4831.8 | 4695.1 | 4573.1 | 4567.6 |
| 42.5° | 4955.6 | 4999.9 | 5049.8 | 5212.4 | 5327.0 | 5417.5 | 5291.9 | 5186.6 | 5035.0 | 4939.0 | 4933.4 |
| 45° | 5338.1 | 5306.7 | 5362.1 | 5469.3 | 5565.3 | 5624.5 | 5543.2 | 5491.4 | 5382.4 | 5293.7 | 5284.5 |
| 47.5° | 5593.1 | 5565.3 | 5665.1 | 5761.2 | 5776.0 | 5711.3 | 5727.9 | 5776.0 | 5661.4 | 5515.5 | 5561.6 |
| 50° | 5740.9 | 5740.9 | 5807.4 | 5896.1 | 5868.4 | 5785.2 | 5916.4 | 5920.1 | 5805.5 | 5676.2 | 5676.2 |
| 52.5° | 5484.0 | 5541.3 | 5729.8 | 6019.9 | 6112.3 | 6136.3 | 6106.7 | 5981.1 | 5681.7 | 5417.5 | 5404.6 |
| 55° | 4778.2 | 4765.3 | 5020.3 | 5685.4 | 6223.1 | 6507.7 | 6130.7 | 5552.4 | 4944.5 | 4647.0 | 4617.5 |
| 57.5° | 3107.9 | 3122.7 | 3503.3 | 4181.4 | 5151.5 | 5681.7 | 5046.1 | 4233.1 | 3503.3 | 3093.1 | 3131.9 |
| 60° | 1398.7 | 1448.6 | 1679.6 | 2185.9 | 3019.2 | 3451.5 | 3026.6 | 2296.7 | 1762.7 | 1529.9 | 1550.2 |
| 62.5° | 803.8 | 813.0 | 822.2 | 975.6 | 1286.0 | 1520.7 | 1335.9 | 1031.0 | 909.1 | 868.4 | 868.4 |
| 65° | 678.1 | 672.6 | 674.4 | 687.4 | 720.6 | 768.7 | 748.3 | 720.6 | 724.3 | 720.6 | 715.1 |
| 67.5° | 576.5 | 583.9 | 578.3 | 587.6 | 589.4 | 596.8 | 609.7 | 620.8 | 622.7 | 626.4 | 622.7 |
| 70° | 473.0 | 474.9 | 478.6 | 486.0 | 487.8 | 493.3 | 511.8 | 521.1 | 526.6 | 526.6 | 534.0 |
| 72.5° | 362.2 | 360.3 | 364.0 | 371.4 | 380.6 | 382.5 | 399.1 | 412.0 | 419.4 | 410.2 | 412.0 |
| 75° | 238.4 | 240.2 | 245.7 | 251.3 | 264.2 | 277.2 | 282.7 | 295.6 | 297.5 | 301.2 | 291.9 |
| 77.5° | 142.3 | 146.0 | 151.5 | 162.6 | 173.7 | 184.8 | 197.7 | 206.9 | 210.6 | 206.9 | 195.9 |
| 80° | 92.4 | 92.4 | 99.8 | 109.0 | 121.9 | 131.2 | 138.6 | 146.0 | 151.5 | 146.0 | 142.3 |
| 82.5° | 57.3 | 57.3 | 66.5 | 77.6 | 86.8 | 92.4 | 103.5 | 112.7 | 118.3 | 114.6 | 109.0 |
| 85° | 29.6 | 31.4 | 38.8 | 48.0 | 55.4 | 59.1 | 57.3 | 51.7 | 46.2 | 44.3 | 40.6 |
| 87.5° | 9.2 | 9.2 | 11.1 | 11.1 | 9.2 | 9.2 | 11.1 | 9.2 | 11.1 | 11.1 | 11.1 |
| 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)