

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: P529758

Luminaire Tested: **GALN-SA5A-722-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529758
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-SA5A-722-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2200K, 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: 15164 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

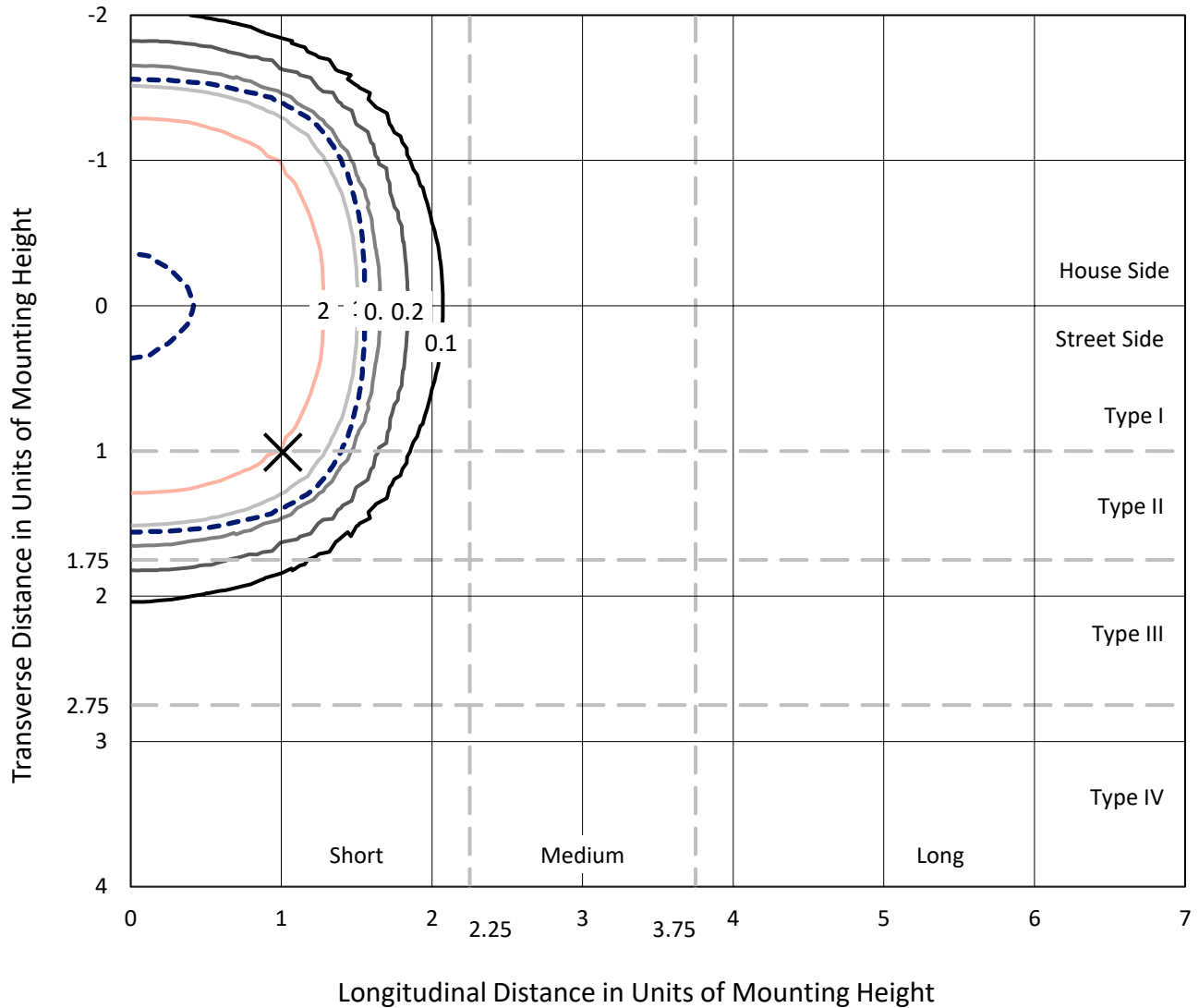
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

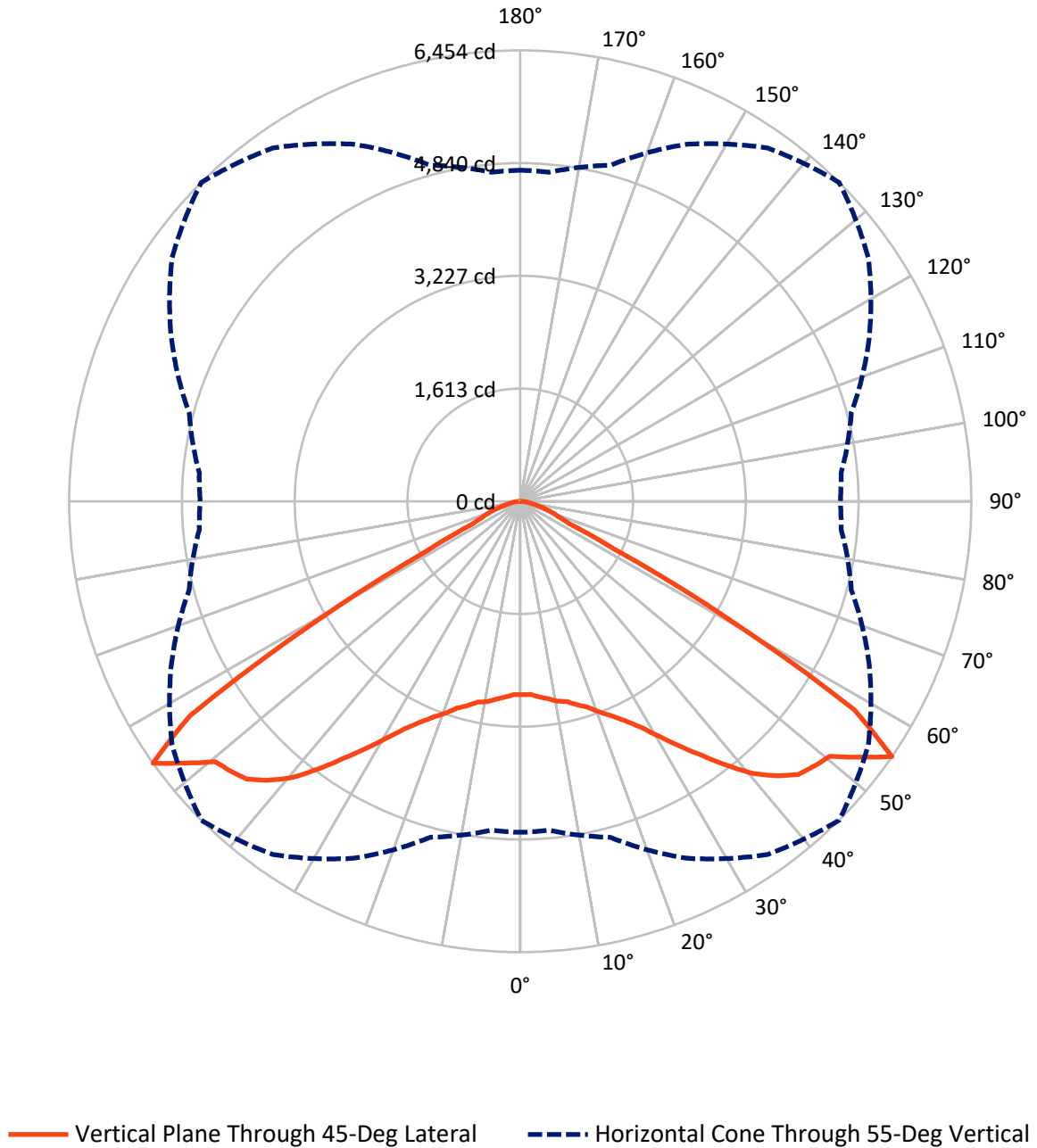
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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 | 7582.0 | 0.0 | 7582.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 7582.0 | 0.0 | 7582.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 15164.0 | 0.0 | 15164.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 270.5 | 1.8 |
| 10°-20° | 857.0 | 5.7 |
| 20°-30° | 1598.1 | 10.5 |
| 30°-40° | 2675.7 | 17.6 |
| 40°-50° | 4163.5 | 27.5 |
| 50°-60° | 4323.1 | 28.5 |
| 60°-70° | 916.8 | 6.0 |
| 70°-80° | 301.9 | 2.0 |
| 80°-90° | 57.5 | 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° | 15164.0 | 100.0 |
| 0°-180° | 15164.0 | 100.0 |

Coefficient of Utilization



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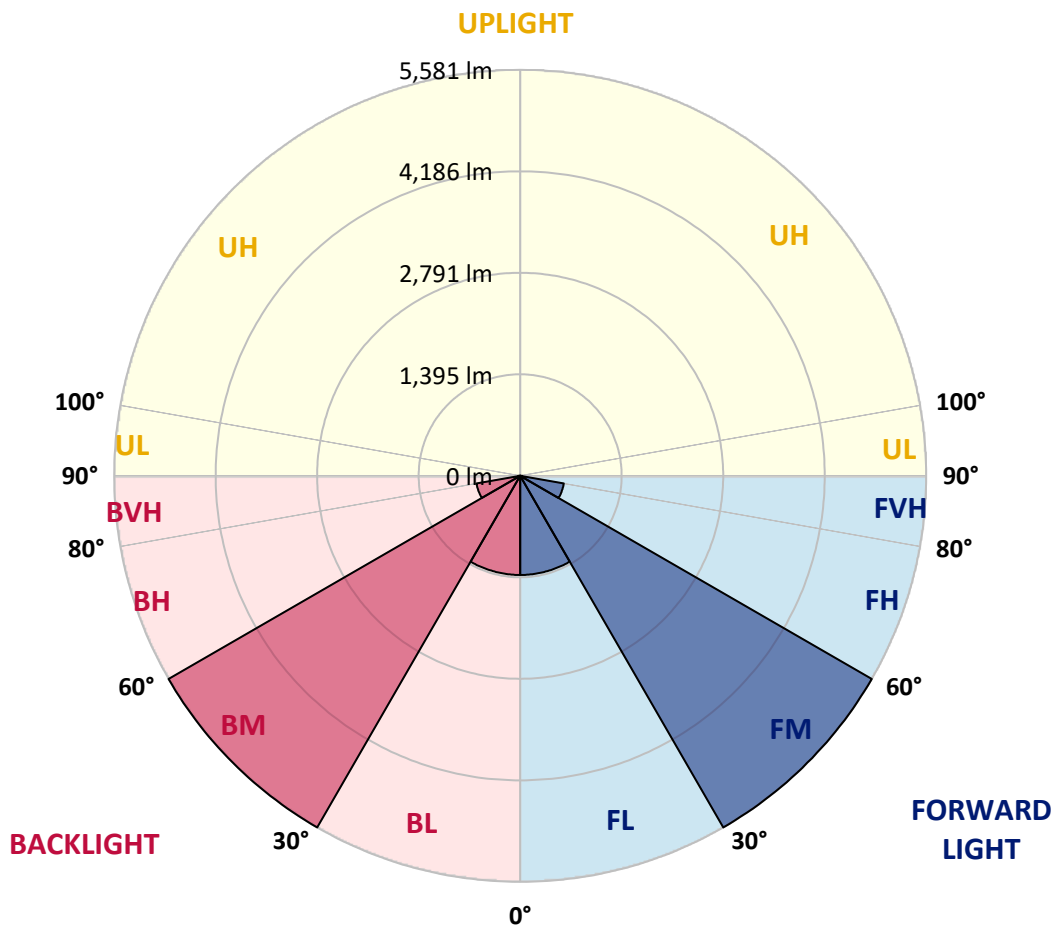
CATALOG NUMBER: GALN-SA5A-722-U-5NQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1362.8 | 9.0 | | | |
| FM (30°-60°) | 5581.1 | 36.8 | | | |
| FH (60°-80°) | 609.3 | 4.0 | | | G0/660 |
| FVH (80°-90°) | 28.8 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1362.8 | 9.0 | B3/2500 | | |
| BM (30°-60°) | 5581.1 | 36.8 | B4/8500 | | |
| BH (60°-80°) | 609.3 | 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° | 2768.7 | 2768.7 | 2768.7 | 2768.7 | 2768.7 | 2768.7 | 2768.7 | 2768.7 | 2768.7 | 2768.7 | 2768.7 |
| 2.5° | 2801.7 | 2788.9 | 2766.9 | 2783.4 | 2796.2 | 2768.7 | 2779.7 | 2785.2 | 2781.5 | 2766.9 | 2772.4 |
| 5° | 2842.0 | 2834.7 | 2816.4 | 2829.2 | 2812.7 | 2812.7 | 2801.7 | 2787.0 | 2809.0 | 2805.4 | 2814.5 |
| 7.5° | 2842.0 | 2832.9 | 2869.5 | 2845.7 | 2853.0 | 2853.0 | 2834.7 | 2820.0 | 2831.0 | 2814.5 | 2805.4 |
| 10° | 2898.8 | 2911.6 | 2895.2 | 2900.7 | 2897.0 | 2909.8 | 2882.3 | 2873.2 | 2864.0 | 2858.5 | 2847.5 |
| 12.5° | 2966.6 | 2957.5 | 2963.0 | 2959.3 | 2972.1 | 2939.1 | 2922.6 | 2902.5 | 2919.0 | 2895.2 | 2911.6 |
| 15° | 3021.6 | 3016.1 | 3021.6 | 3036.2 | 3023.4 | 3021.6 | 2992.3 | 2972.1 | 2946.5 | 2952.0 | 2926.3 |
| 17.5° | 3096.7 | 3091.2 | 3093.1 | 3105.9 | 3104.0 | 3094.9 | 3072.9 | 3034.4 | 3025.3 | 3010.6 | 2994.1 |
| 20° | 3208.5 | 3199.3 | 3195.7 | 3201.2 | 3210.3 | 3217.7 | 3173.7 | 3159.0 | 3127.9 | 3104.0 | 3076.6 |
| 22.5° | 3303.8 | 3300.1 | 3314.8 | 3290.9 | 3311.1 | 3333.1 | 3290.9 | 3283.6 | 3206.7 | 3193.8 | 3164.5 |
| 25° | 3435.7 | 3430.2 | 3421.0 | 3455.9 | 3479.7 | 3477.8 | 3437.5 | 3397.2 | 3338.6 | 3323.9 | 3323.9 |
| 27.5° | 3575.0 | 3543.8 | 3591.5 | 3600.6 | 3642.8 | 3655.6 | 3620.8 | 3562.1 | 3507.2 | 3476.0 | 3483.3 |
| 30° | 3749.0 | 3719.7 | 3730.7 | 3796.7 | 3851.7 | 3899.3 | 3811.3 | 3725.2 | 3648.3 | 3593.3 | 3584.1 |
| 32.5° | 3923.1 | 3893.8 | 3926.8 | 3990.9 | 4100.9 | 4172.3 | 4086.2 | 3935.9 | 3846.2 | 3765.5 | 3782.0 |
| 35° | 4064.2 | 4086.2 | 4139.3 | 4236.5 | 4350.1 | 4465.5 | 4328.1 | 4212.6 | 4084.4 | 3994.6 | 4007.4 |
| 37.5° | 4291.4 | 4359.2 | 4401.4 | 4513.1 | 4674.4 | 4793.5 | 4650.6 | 4500.3 | 4362.9 | 4245.6 | 4205.3 |
| 40° | 4588.3 | 4634.1 | 4681.7 | 4813.7 | 5004.2 | 5123.3 | 4987.7 | 4791.7 | 4656.1 | 4535.1 | 4529.6 |
| 42.5° | 4914.4 | 4958.4 | 5007.9 | 5169.1 | 5282.7 | 5372.5 | 5247.9 | 5143.5 | 4993.2 | 4897.9 | 4892.4 |
| 45° | 5293.7 | 5262.6 | 5317.6 | 5423.8 | 5519.1 | 5577.8 | 5497.1 | 5445.8 | 5337.7 | 5249.8 | 5240.6 |
| 47.5° | 5546.6 | 5519.1 | 5618.1 | 5713.3 | 5728.0 | 5663.9 | 5680.4 | 5728.0 | 5614.4 | 5469.6 | 5515.5 |
| 50° | 5693.2 | 5693.2 | 5759.2 | 5847.1 | 5819.6 | 5737.2 | 5867.3 | 5870.9 | 5757.3 | 5629.1 | 5629.1 |
| 52.5° | 5438.5 | 5495.3 | 5682.2 | 5969.9 | 6061.5 | 6085.3 | 6056.0 | 5931.4 | 5634.6 | 5372.5 | 5359.7 |
| 55° | 4738.5 | 4725.7 | 4978.6 | 5638.2 | 6171.4 | 6453.6 | 6079.8 | 5506.3 | 4903.4 | 4608.4 | 4579.1 |
| 57.5° | 3082.1 | 3096.7 | 3474.2 | 4146.7 | 5108.7 | 5634.6 | 5004.2 | 4198.0 | 3474.2 | 3067.4 | 3105.9 |
| 60° | 1387.1 | 1436.6 | 1665.6 | 2167.7 | 2994.1 | 3422.9 | 3001.4 | 2277.6 | 1748.1 | 1517.2 | 1537.4 |
| 62.5° | 797.1 | 806.2 | 815.4 | 967.5 | 1275.3 | 1508.0 | 1324.8 | 1022.5 | 901.5 | 861.2 | 861.2 |
| 65° | 672.5 | 667.0 | 668.8 | 681.6 | 714.6 | 762.3 | 742.1 | 714.6 | 718.3 | 714.6 | 709.1 |
| 67.5° | 571.7 | 579.0 | 573.5 | 582.7 | 584.5 | 591.9 | 604.7 | 615.7 | 617.5 | 621.2 | 617.5 |
| 70° | 469.1 | 470.9 | 474.6 | 481.9 | 483.7 | 489.2 | 507.6 | 516.7 | 522.2 | 522.2 | 529.6 |
| 72.5° | 359.1 | 357.3 | 361.0 | 368.3 | 377.5 | 379.3 | 395.8 | 408.6 | 415.9 | 406.8 | 408.6 |
| 75° | 236.4 | 238.2 | 243.7 | 249.2 | 262.0 | 274.9 | 280.4 | 293.2 | 295.0 | 298.7 | 289.5 |
| 77.5° | 141.1 | 144.8 | 150.3 | 161.2 | 172.2 | 183.2 | 196.1 | 205.2 | 208.9 | 205.2 | 194.2 |
| 80° | 91.6 | 91.6 | 98.9 | 108.1 | 120.9 | 130.1 | 137.4 | 144.8 | 150.3 | 144.8 | 141.1 |
| 82.5° | 56.8 | 56.8 | 66.0 | 77.0 | 86.1 | 91.6 | 102.6 | 111.8 | 117.3 | 113.6 | 108.1 |
| 85° | 29.3 | 31.2 | 38.5 | 47.6 | 55.0 | 58.6 | 56.8 | 51.3 | 45.8 | 44.0 | 40.3 |
| 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)