

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: P453467

Luminaire Tested: **GALN-SA4C-730-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453467
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-730-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26565 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

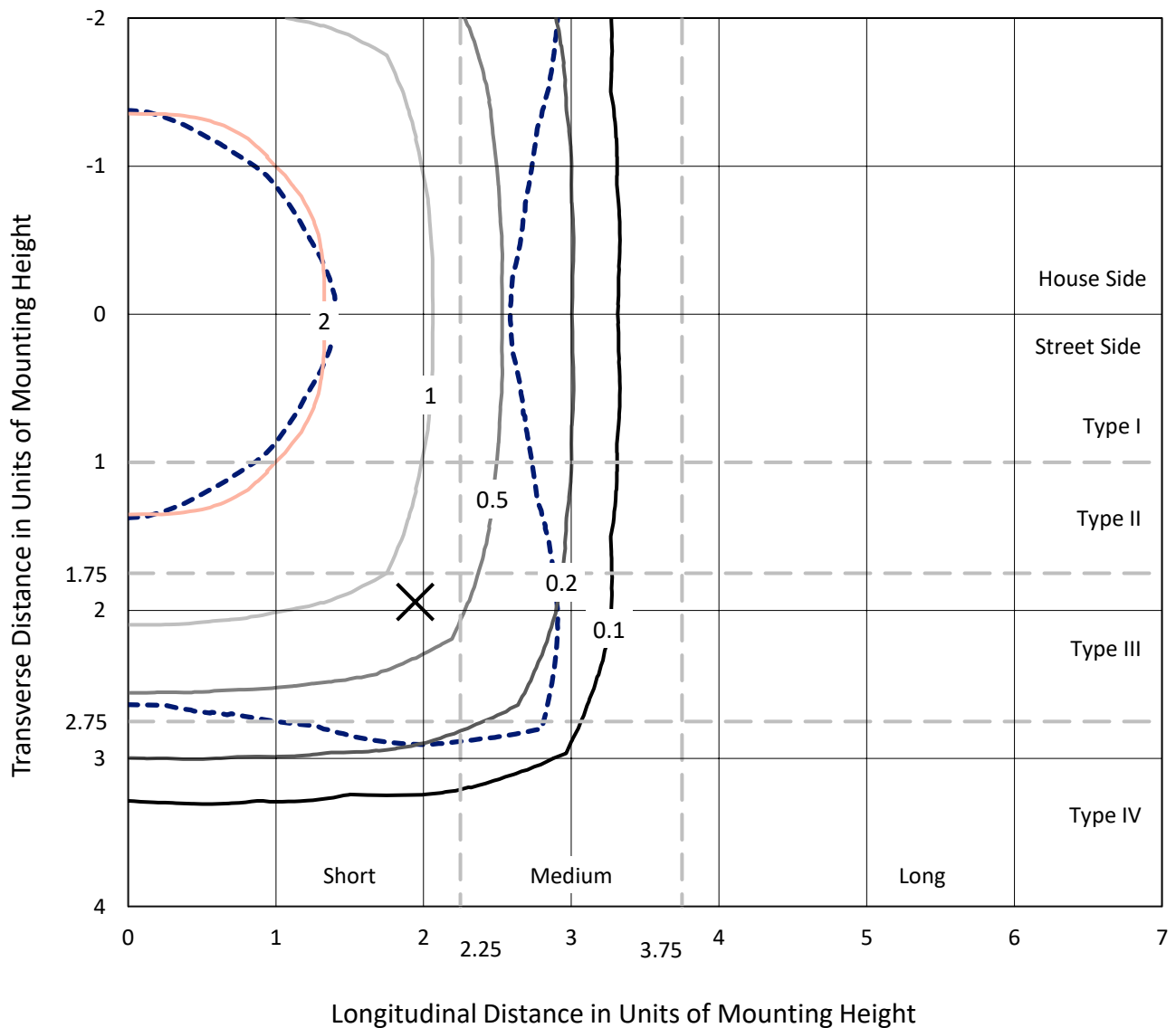
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

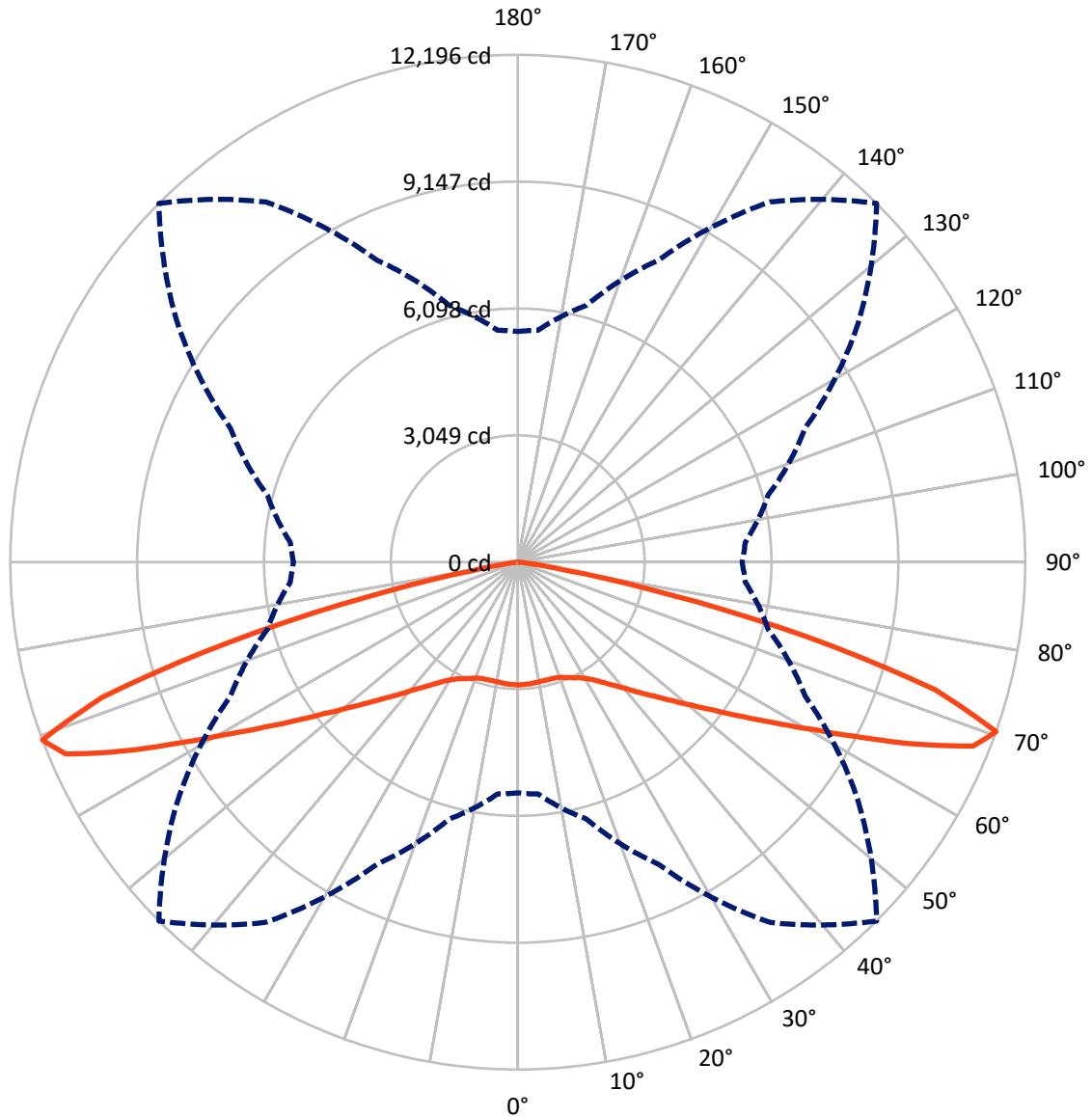
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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 | 13282.5 | 0.0 | 13282.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 13282.5 | 0.0 | 13282.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 26565.0 | 0.0 | 26565.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 279.7 | 1.1 |
| 10°-20° | 820.9 | 3.1 |
| 20°-30° | 1403.9 | 5.3 |
| 30°-40° | 2228.3 | 8.4 |
| 40°-50° | 3594.9 | 13.5 |
| 50°-60° | 5849.0 | 22.0 |
| 60°-70° | 8478.9 | 31.9 |
| 70°-80° | 3760.9 | 14.2 |
| 80°-90° | 148.3 | 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° | 26565.0 | 100.0 |
| 0°-180° | 26565.0 | 100.0 |

Coefficient of Utilization



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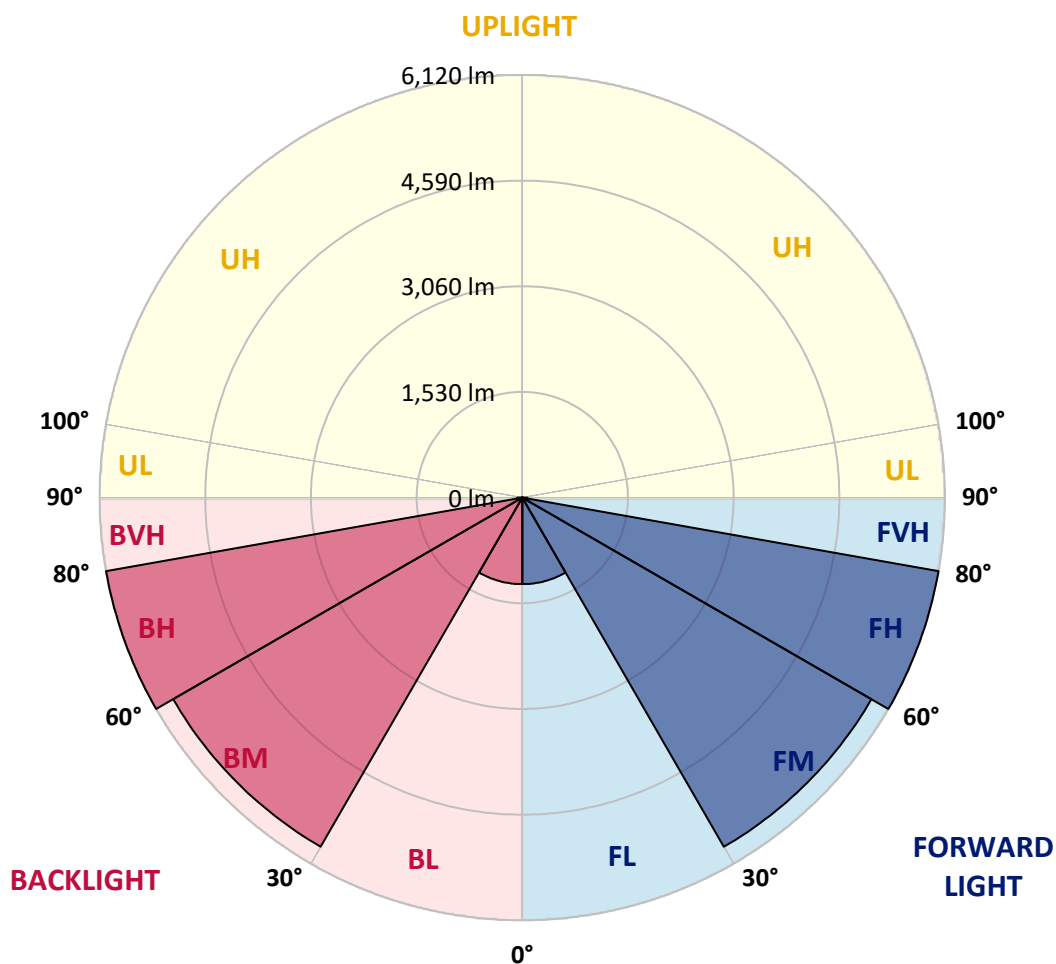
CATALOG NUMBER: GALN-SA4C-730-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1252.3 | 4.7 | | | |
| FM (30°-60°) | 5836.1 | 22.0 | | | |
| FH (60°-80°) | 6119.9 | 23.0 | | | G3/7500 |
| FVH (80°-90°) | 74.2 | 0.3 | | | G1/100 |
| BL (0°-30°) | 1252.3 | 4.7 | B3/2500 | | |
| BM (30°-60°) | 5836.1 | 22.0 | B4/8500 | | |
| BH (60°-80°) | 6119.9 | 23.0 | B5 | | G3/7500 |
| BVH (80°-90°) | 74.2 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 2949.9 | 2949.9 | 2949.9 | 2949.9 | 2949.9 | 2949.9 | 2949.9 | 2949.9 | 2949.9 | 2949.9 | 2949.9 |
| 2.5° | 2949.9 | 2952.7 | 2948.5 | 2945.7 | 2944.3 | 2944.3 | 2942.9 | 2944.3 | 2952.7 | 2954.1 | 2949.9 |
| 5° | 2941.5 | 2944.3 | 2942.9 | 2940.1 | 2938.7 | 2938.7 | 2937.3 | 2935.9 | 2942.9 | 2945.7 | 2944.3 |
| 7.5° | 2930.3 | 2931.7 | 2930.3 | 2928.9 | 2930.3 | 2928.9 | 2924.7 | 2921.9 | 2927.5 | 2927.5 | 2926.1 |
| 10° | 2910.7 | 2913.5 | 2912.1 | 2913.5 | 2916.3 | 2916.3 | 2910.7 | 2905.1 | 2906.5 | 2903.7 | 2903.7 |
| 12.5° | 2886.9 | 2891.1 | 2892.5 | 2898.1 | 2905.1 | 2913.5 | 2900.9 | 2888.3 | 2885.5 | 2884.1 | 2882.7 |
| 15° | 2871.5 | 2875.7 | 2881.3 | 2886.9 | 2899.5 | 2917.7 | 2899.5 | 2879.9 | 2874.3 | 2868.7 | 2865.9 |
| 17.5° | 2867.3 | 2872.9 | 2881.3 | 2889.7 | 2906.5 | 2924.7 | 2909.3 | 2889.7 | 2875.7 | 2867.3 | 2864.5 |
| 20° | 2878.5 | 2882.7 | 2895.3 | 2910.7 | 2934.5 | 2952.7 | 2937.3 | 2916.3 | 2895.3 | 2882.7 | 2878.5 |
| 22.5° | 2900.9 | 2907.9 | 2923.3 | 2951.3 | 2984.9 | 3011.5 | 2990.5 | 2955.5 | 2921.9 | 2905.1 | 2899.5 |
| 25° | 2949.9 | 2955.5 | 2973.7 | 3011.5 | 3050.7 | 3075.9 | 3053.5 | 3012.9 | 2966.7 | 2944.3 | 2937.3 |
| 27.5° | 3024.1 | 3032.5 | 3052.1 | 3096.9 | 3129.1 | 3143.1 | 3127.7 | 3099.7 | 3066.1 | 3042.3 | 3036.7 |
| 30° | 3129.1 | 3138.9 | 3168.3 | 3215.9 | 3236.9 | 3245.3 | 3238.3 | 3220.1 | 3196.3 | 3171.1 | 3165.5 |
| 32.5° | 3270.5 | 3276.1 | 3309.7 | 3354.5 | 3374.1 | 3376.9 | 3368.5 | 3360.1 | 3320.9 | 3278.9 | 3276.1 |
| 35° | 3428.7 | 3438.5 | 3479.1 | 3532.3 | 3550.5 | 3551.9 | 3535.1 | 3522.5 | 3476.3 | 3442.7 | 3442.7 |
| 37.5° | 3638.7 | 3642.9 | 3682.1 | 3742.3 | 3762.0 | 3756.4 | 3747.9 | 3736.7 | 3687.7 | 3644.3 | 3645.7 |
| 40° | 3885.2 | 3893.6 | 3927.2 | 3997.2 | 3997.2 | 3990.2 | 3995.8 | 3987.4 | 3938.4 | 3896.4 | 3897.8 |
| 42.5° | 4177.8 | 4182.0 | 4222.6 | 4296.8 | 4291.2 | 4277.2 | 4282.8 | 4271.6 | 4240.8 | 4193.2 | 4176.4 |
| 45° | 4490.0 | 4506.8 | 4576.8 | 4648.2 | 4637.0 | 4592.2 | 4614.6 | 4611.8 | 4583.8 | 4512.4 | 4516.6 |
| 47.5° | 4866.6 | 4894.6 | 4961.8 | 5047.2 | 5034.6 | 4964.6 | 4989.8 | 5006.6 | 4967.4 | 4889.0 | 4875.0 |
| 50° | 5290.8 | 5309.0 | 5408.4 | 5488.2 | 5477.0 | 5402.8 | 5460.2 | 5463.0 | 5365.0 | 5254.4 | 5254.4 |
| 52.5° | 5743.0 | 5761.2 | 5895.6 | 6020.2 | 6027.2 | 5919.4 | 5965.6 | 5962.8 | 5803.2 | 5657.6 | 5629.6 |
| 55° | 6249.9 | 6258.3 | 6431.9 | 6615.3 | 6654.5 | 6549.5 | 6555.1 | 6499.1 | 6291.9 | 6122.4 | 6107.0 |
| 57.5° | 6773.5 | 6804.3 | 6996.1 | 7234.1 | 7350.3 | 7285.9 | 7256.5 | 7106.7 | 6906.5 | 6711.9 | 6702.1 |
| 60° | 7353.1 | 7354.5 | 7603.7 | 7885.1 | 8120.3 | 8163.7 | 8043.3 | 7843.1 | 7584.1 | 7326.5 | 7315.3 |
| 62.5° | 7754.9 | 7815.1 | 8130.1 | 8606.1 | 9027.6 | 9271.2 | 8953.4 | 8533.3 | 8023.7 | 7607.9 | 7565.9 |
| 65° | 7837.5 | 7878.1 | 8358.3 | 9164.8 | 10025.8 | 10550.8 | 9815.8 | 8922.6 | 8053.1 | 7498.7 | 7470.7 |
| 67.5° | 7169.7 | 7213.1 | 7859.9 | 9097.6 | 10725.8 | 11802.5 | 10375.8 | 8734.9 | 7554.7 | 6868.7 | 6814.1 |
| 70° | 5545.6 | 5594.6 | 6394.1 | 8008.3 | 10570.4 | 12195.9 | 9976.8 | 7619.1 | 6230.2 | 5489.6 | 5390.2 |
| 72.5° | 2948.5 | 3129.1 | 3812.4 | 5496.6 | 8579.5 | 10500.4 | 8180.5 | 5559.6 | 4018.2 | 3284.5 | 3152.9 |
| 75° | 1076.6 | 1099.0 | 1479.9 | 2437.5 | 4991.2 | 7200.5 | 5183.0 | 2651.7 | 1524.7 | 1177.4 | 1117.2 |
| 77.5° | 445.2 | 443.8 | 487.2 | 736.4 | 1813.1 | 3687.7 | 2023.1 | 778.4 | 485.8 | 449.4 | 443.8 |
| 80° | 263.2 | 263.2 | 289.8 | 306.6 | 477.4 | 1113.0 | 533.4 | 347.2 | 291.2 | 266.0 | 270.2 |
| 82.5° | 117.6 | 124.6 | 183.4 | 193.2 | 231.0 | 305.2 | 257.6 | 221.2 | 190.4 | 131.6 | 119.0 |
| 85° | 64.4 | 56.0 | 96.6 | 100.8 | 110.6 | 113.4 | 121.8 | 120.4 | 110.6 | 64.4 | 65.8 |
| 87.5° | 12.6 | 15.4 | 28.0 | 21.0 | 23.8 | 21.0 | 28.0 | 39.2 | 40.6 | 22.4 | 18.2 |
| 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)