

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: P459006

Luminaire Tested: **GALN-SA5B-735-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459006
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-SA5B-735-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27841 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

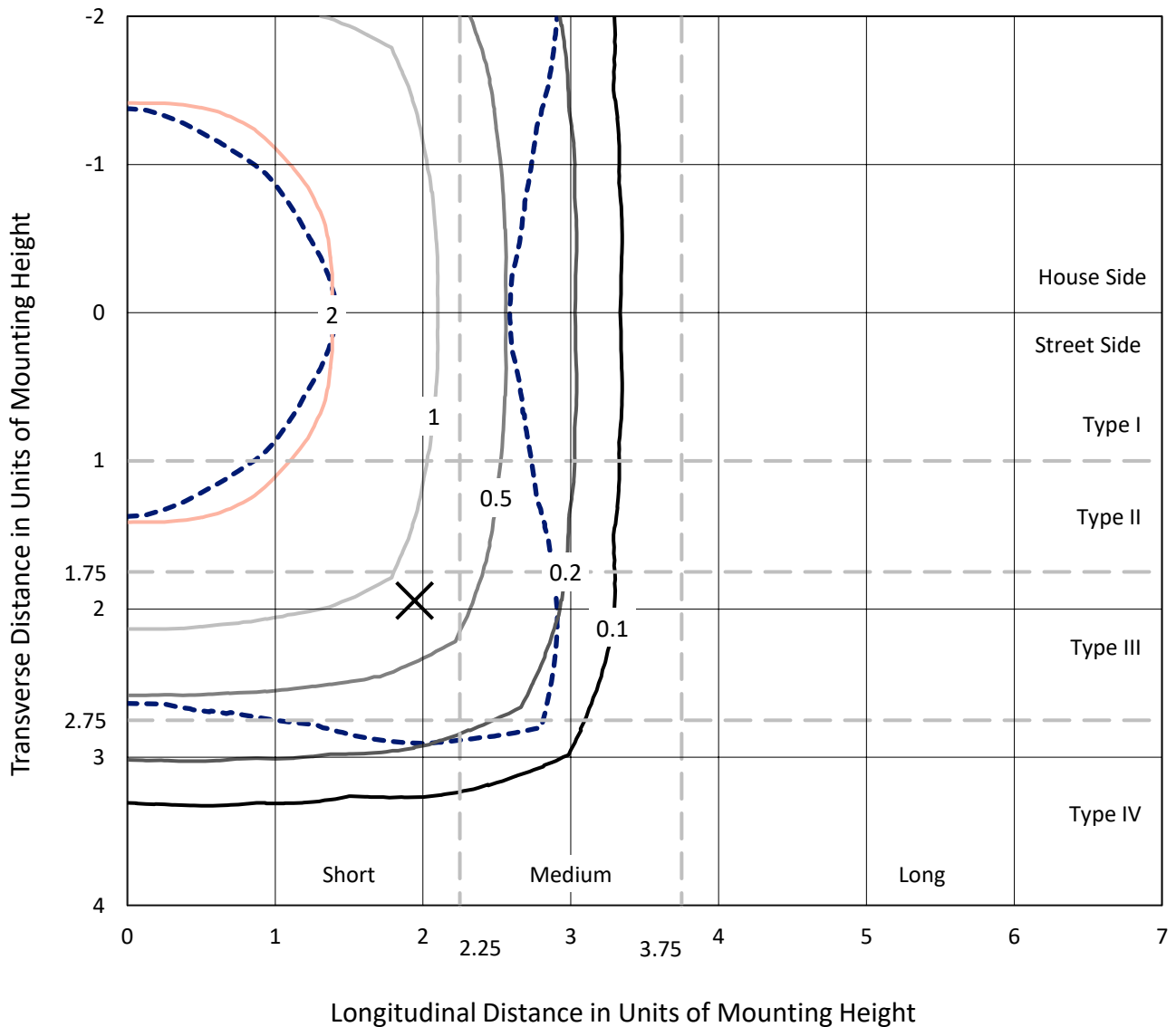
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

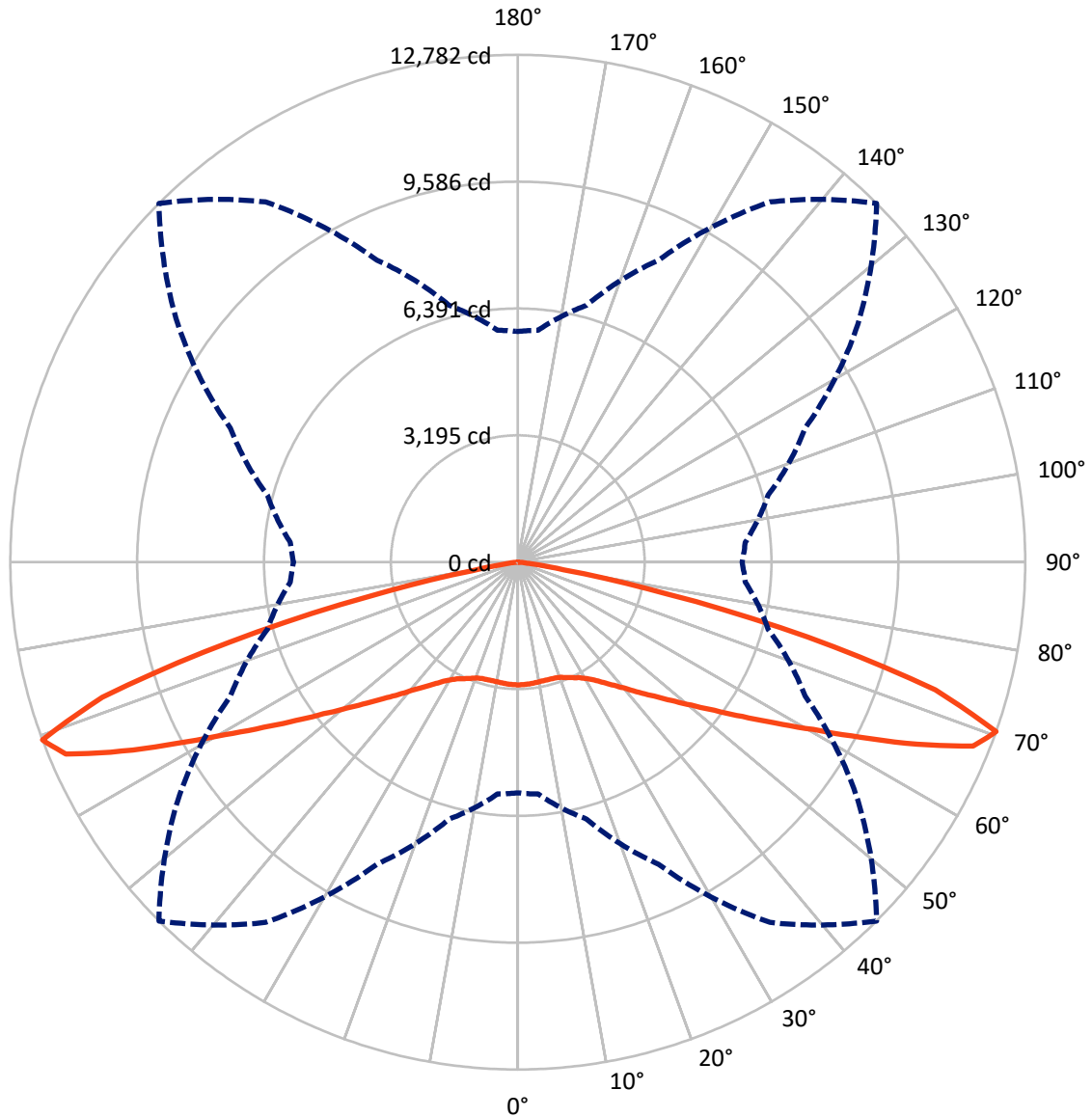
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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 | 13920.5 | 0.0 | 13920.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 13920.5 | 0.0 | 13920.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 27841.0 | 0.0 | 27841.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 293.2 | 1.1 |
| 10°-20° | 860.3 | 3.1 |
| 20°-30° | 1471.4 | 5.3 |
| 30°-40° | 2335.4 | 8.4 |
| 40°-50° | 3767.6 | 13.5 |
| 50°-60° | 6129.9 | 22.0 |
| 60°-70° | 8886.2 | 31.9 |
| 70°-80° | 3941.6 | 14.2 |
| 80°-90° | 155.5 | 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° | 27841.0 | 100.0 |
| 0°-180° | 27841.0 | 100.0 |

Coefficient of Utilization



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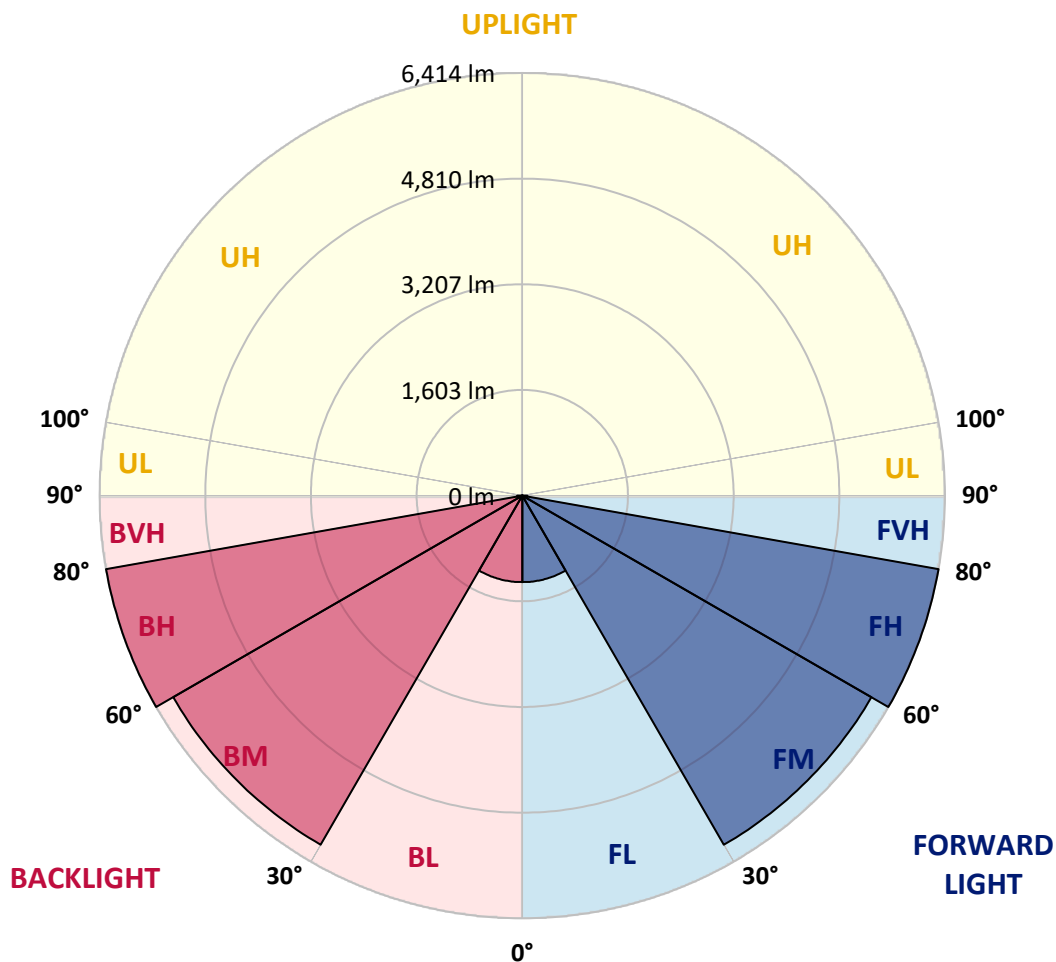
CATALOG NUMBER: GALN-SA5B-735-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1312.4 | 4.7 | | | |
| FM | (30°-60°) | 6116.5 | 22.0 | | | |
| FH | (60°-80°) | 6413.9 | 23.0 | | | G3/7500 |
| FVH | (80°-90°) | 77.7 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 1312.4 | 4.7 | B3/2500 | | |
| BM | (30°-60°) | 6116.5 | 22.0 | B4/8500 | | |
| BH | (60°-80°) | 6413.9 | 23.0 | B5 | | G3/7500 |
| BVH | (80°-90°) | 77.7 | 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° | 3091.6 | 3091.6 | 3091.6 | 3091.6 | 3091.6 | 3091.6 | 3091.6 | 3091.6 | 3091.6 | 3091.6 | 3091.6 |
| 2.5° | 3091.6 | 3094.5 | 3090.1 | 3087.2 | 3085.7 | 3085.7 | 3084.3 | 3085.7 | 3094.5 | 3096.0 | 3091.6 |
| 5° | 3082.8 | 3085.7 | 3084.3 | 3081.3 | 3079.9 | 3079.9 | 3078.4 | 3076.9 | 3084.3 | 3087.2 | 3085.7 |
| 7.5° | 3071.1 | 3072.5 | 3071.1 | 3069.6 | 3071.1 | 3069.6 | 3065.2 | 3062.3 | 3068.1 | 3068.1 | 3066.7 |
| 10° | 3050.5 | 3053.5 | 3052.0 | 3053.5 | 3056.4 | 3056.4 | 3050.5 | 3044.7 | 3046.1 | 3043.2 | 3043.2 |
| 12.5° | 3025.6 | 3030.0 | 3031.5 | 3037.3 | 3044.7 | 3053.5 | 3040.3 | 3027.1 | 3024.1 | 3022.6 | 3021.2 |
| 15° | 3009.4 | 3013.8 | 3019.7 | 3025.6 | 3038.8 | 3057.9 | 3038.8 | 3018.2 | 3012.4 | 3006.5 | 3003.6 |
| 17.5° | 3005.0 | 3010.9 | 3019.7 | 3028.5 | 3046.1 | 3065.2 | 3049.1 | 3028.5 | 3013.8 | 3005.0 | 3002.1 |
| 20° | 3016.8 | 3021.2 | 3034.4 | 3050.5 | 3075.5 | 3094.5 | 3078.4 | 3056.4 | 3034.4 | 3021.2 | 3016.8 |
| 22.5° | 3040.3 | 3047.6 | 3063.7 | 3093.1 | 3128.3 | 3156.2 | 3134.2 | 3097.5 | 3062.3 | 3044.7 | 3038.8 |
| 25° | 3091.6 | 3097.5 | 3116.6 | 3156.2 | 3197.3 | 3223.7 | 3200.2 | 3157.6 | 3109.2 | 3085.7 | 3078.4 |
| 27.5° | 3169.4 | 3178.2 | 3198.7 | 3245.7 | 3279.4 | 3294.1 | 3278.0 | 3248.6 | 3213.4 | 3188.5 | 3182.6 |
| 30° | 3279.4 | 3289.7 | 3320.5 | 3370.4 | 3392.4 | 3401.2 | 3393.9 | 3374.8 | 3349.9 | 3323.4 | 3317.6 |
| 32.5° | 3427.6 | 3433.5 | 3468.7 | 3515.7 | 3536.2 | 3539.1 | 3530.3 | 3521.5 | 3480.4 | 3436.4 | 3433.5 |
| 35° | 3593.4 | 3603.7 | 3646.3 | 3702.0 | 3721.1 | 3722.6 | 3704.9 | 3691.7 | 3643.3 | 3608.1 | 3608.1 |
| 37.5° | 3813.5 | 3817.9 | 3859.0 | 3922.1 | 3942.6 | 3936.8 | 3928.0 | 3916.2 | 3864.9 | 3819.4 | 3820.9 |
| 40° | 4071.8 | 4080.6 | 4115.8 | 4189.2 | 4189.2 | 4181.8 | 4187.7 | 4178.9 | 4127.5 | 4083.5 | 4085.0 |
| 42.5° | 4378.4 | 4382.8 | 4425.4 | 4503.2 | 4497.3 | 4482.6 | 4488.5 | 4476.7 | 4444.5 | 4394.6 | 4377.0 |
| 45° | 4705.6 | 4723.3 | 4796.6 | 4871.5 | 4859.7 | 4812.8 | 4836.2 | 4833.3 | 4804.0 | 4729.1 | 4733.5 |
| 47.5° | 5100.4 | 5129.7 | 5200.1 | 5289.6 | 5276.4 | 5203.1 | 5229.5 | 5247.1 | 5206.0 | 5123.8 | 5109.2 |
| 50° | 5544.9 | 5564.0 | 5668.2 | 5751.8 | 5740.1 | 5662.3 | 5722.5 | 5725.4 | 5622.7 | 5506.8 | 5506.8 |
| 52.5° | 6018.9 | 6038.0 | 6178.8 | 6309.4 | 6316.7 | 6203.8 | 6252.2 | 6249.3 | 6082.0 | 5929.4 | 5900.0 |
| 55° | 6550.0 | 6558.9 | 6740.8 | 6933.0 | 6974.1 | 6864.1 | 6869.9 | 6811.2 | 6594.1 | 6416.5 | 6400.4 |
| 57.5° | 7098.8 | 7131.1 | 7332.1 | 7581.6 | 7703.4 | 7635.9 | 7605.0 | 7448.0 | 7238.2 | 7034.3 | 7024.0 |
| 60° | 7706.3 | 7707.8 | 7968.9 | 8263.9 | 8510.4 | 8555.9 | 8429.7 | 8219.8 | 7948.4 | 7678.4 | 7666.7 |
| 62.5° | 8127.4 | 8190.5 | 8520.6 | 9019.5 | 9461.2 | 9716.5 | 9383.4 | 8943.2 | 8409.1 | 7973.3 | 7929.3 |
| 65° | 8214.0 | 8256.5 | 8759.8 | 9605.0 | 10507.4 | 11057.6 | 10287.3 | 9351.1 | 8439.9 | 7858.9 | 7829.5 |
| 67.5° | 7514.1 | 7559.6 | 8237.5 | 9534.5 | 11241.0 | 12369.4 | 10874.2 | 9154.5 | 7917.6 | 7198.6 | 7141.4 |
| 70° | 5812.0 | 5863.4 | 6701.2 | 8393.0 | 11078.2 | 12781.7 | 10456.0 | 7985.1 | 6529.5 | 5753.3 | 5649.1 |
| 72.5° | 3090.1 | 3279.4 | 3995.5 | 5760.6 | 8991.6 | 11004.8 | 8573.5 | 5826.7 | 4211.2 | 3442.3 | 3304.4 |
| 75° | 1128.4 | 1151.8 | 1550.9 | 2554.6 | 5230.9 | 7546.4 | 5432.0 | 2779.1 | 1597.9 | 1234.0 | 1170.9 |
| 77.5° | 466.6 | 465.1 | 510.6 | 771.8 | 1900.2 | 3864.9 | 2120.3 | 815.8 | 509.2 | 471.0 | 465.1 |
| 80° | 275.9 | 275.9 | 303.7 | 321.3 | 500.4 | 1166.5 | 559.0 | 363.9 | 305.2 | 278.8 | 283.2 |
| 82.5° | 123.3 | 130.6 | 192.2 | 202.5 | 242.1 | 319.9 | 270.0 | 231.8 | 199.6 | 137.9 | 124.7 |
| 85° | 67.5 | 58.7 | 101.2 | 105.6 | 115.9 | 118.9 | 127.7 | 126.2 | 115.9 | 67.5 | 69.0 |
| 87.5° | 13.2 | 16.1 | 29.3 | 22.0 | 24.9 | 22.0 | 29.3 | 41.1 | 42.6 | 23.5 | 19.1 |
| 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)