

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: P452569

Luminaire Tested: **GALN-SA3C-740-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452569
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-740-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21903 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

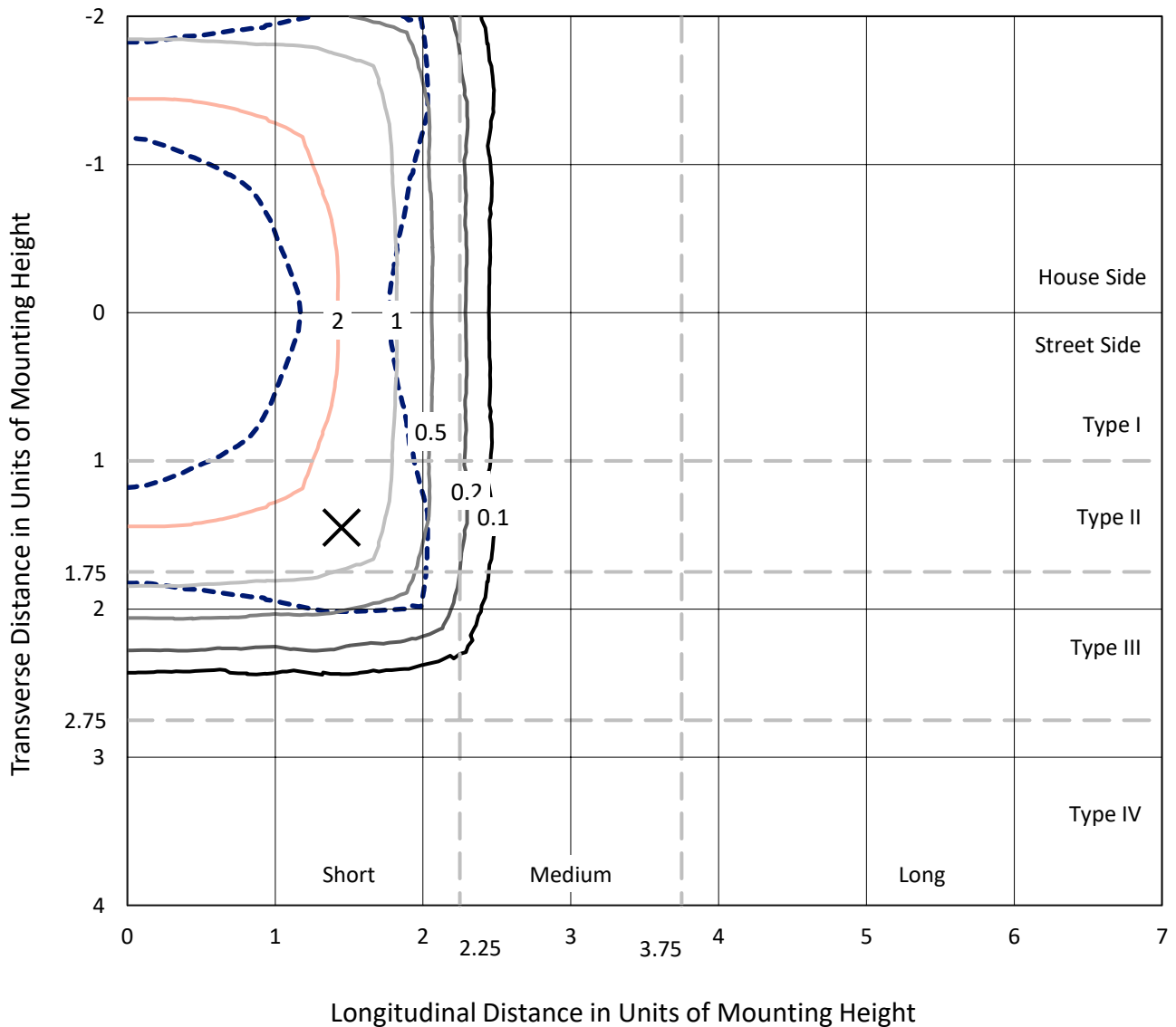
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

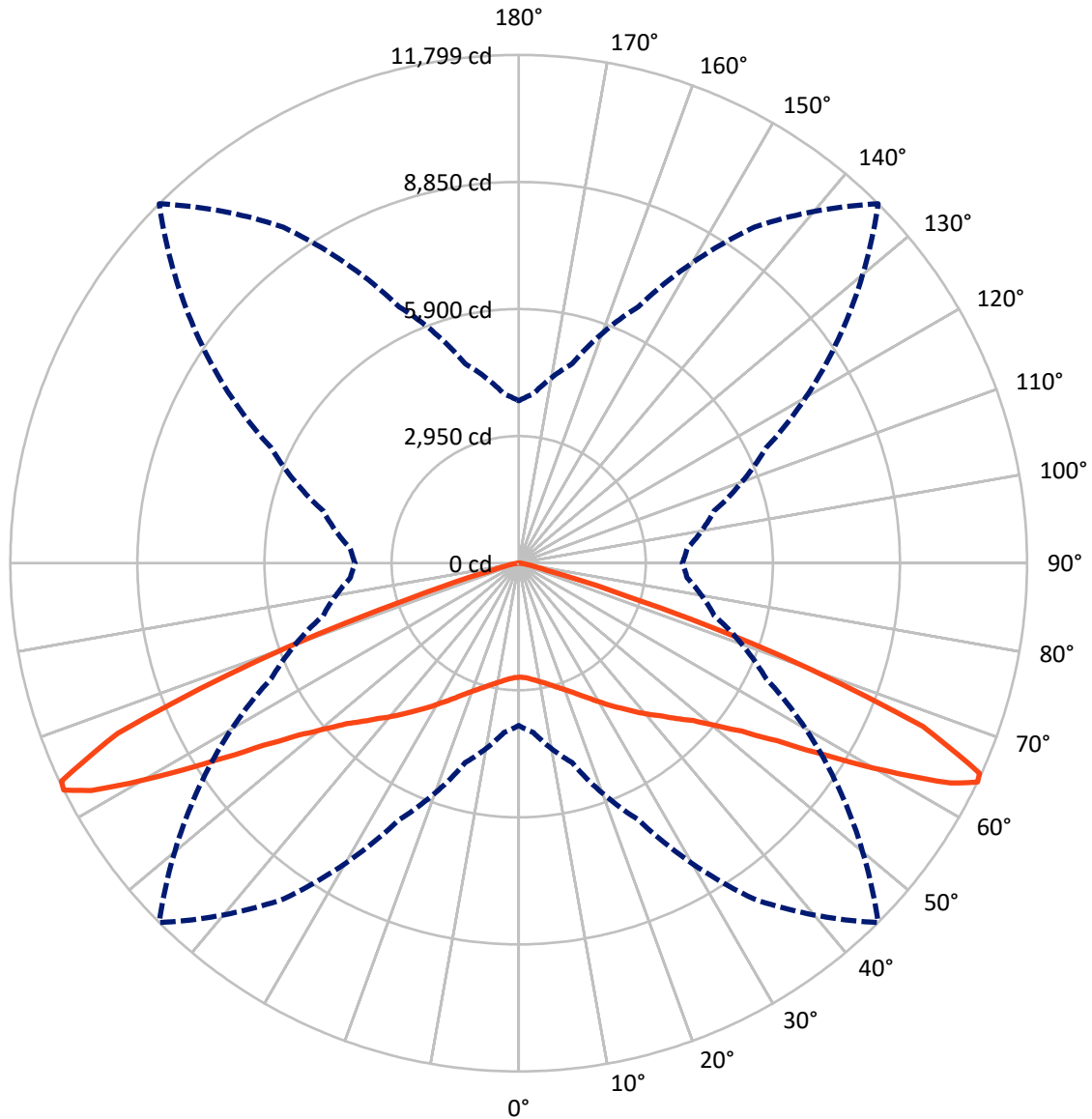
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10951.5 | 0.0 | 10951.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 10951.5 | 0.0 | 10951.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 21903.0 | 0.0 | 21903.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 260.1 | 1.2 |
| 10°-20° | 838.9 | 3.8 |
| 20°-30° | 1585.4 | 7.2 |
| 30°-40° | 2625.5 | 12.0 |
| 40°-50° | 4098.9 | 18.7 |
| 50°-60° | 6336.7 | 28.9 |
| 60°-70° | 5464.1 | 24.9 |
| 70°-80° | 619.2 | 2.8 |
| 80°-90° | 74.2 | 0.3 |
| 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° | 21903.0 | 100.0 |
| 0°-180° | 21903.0 | 100.0 |

Coefficient of Utilization



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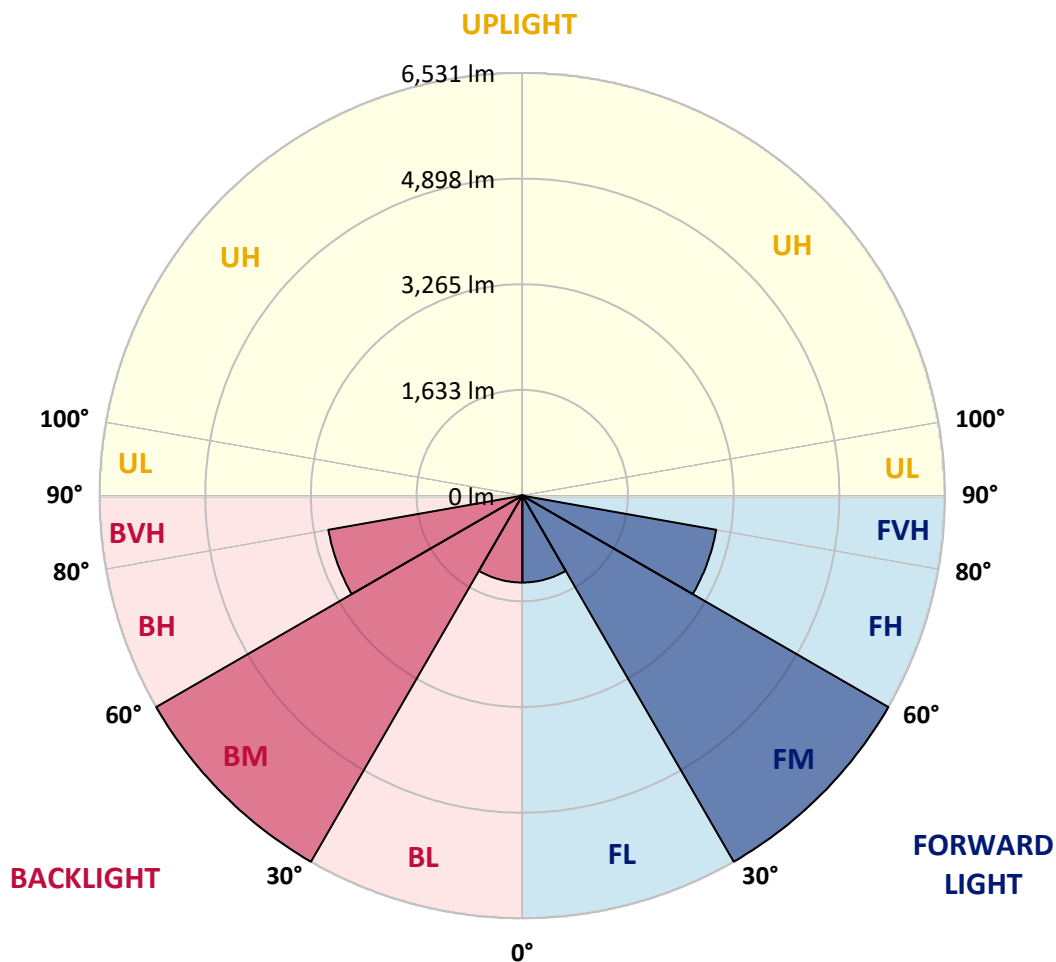
CATALOG NUMBER: GALN-SA3C-740-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1342.2 | 6.1 | | | |
| FM | (30°-60°) | 6530.6 | 29.8 | | | |
| FH | (60°-80°) | 3041.7 | 13.9 | | | G2/5000 |
| FVH | (80°-90°) | 37.1 | 0.2 | | | G1/100 |
| BL | (0°-30°) | 1342.2 | 6.1 | B3/2500 | | |
| BM | (30°-60°) | 6530.6 | 29.8 | B4/8500 | | |
| BH | (60°-80°) | 3041.7 | 13.9 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 37.1 | 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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|
| 0° | 2647.3 | 2647.3 | 2647.3 | 2647.3 | 2647.3 | 2647.3 | 2647.3 | 2647.3 | 2647.3 | 2647.3 | 2647.3 |
| 2.5° | 2657.8 | 2663.6 | 2658.9 | 2657.8 | 2656.6 | 2656.6 | 2657.8 | 2662.4 | 2665.9 | 2663.6 | 2663.6 |
| 5° | 2691.4 | 2696.1 | 2693.7 | 2692.6 | 2691.4 | 2692.6 | 2690.3 | 2689.1 | 2692.6 | 2692.6 | 2691.4 |
| 7.5° | 2733.2 | 2739.0 | 2736.7 | 2739.0 | 2740.2 | 2741.3 | 2735.5 | 2730.9 | 2729.7 | 2733.2 | 2730.9 |
| 10° | 2790.0 | 2794.7 | 2795.8 | 2797.0 | 2799.3 | 2798.2 | 2791.2 | 2783.1 | 2781.9 | 2780.8 | 2779.6 |
| 12.5° | 2853.8 | 2857.3 | 2858.5 | 2863.1 | 2866.6 | 2867.8 | 2859.6 | 2852.7 | 2841.1 | 2843.4 | 2838.8 |
| 15° | 2925.8 | 2932.7 | 2931.6 | 2938.5 | 2947.8 | 2950.1 | 2942.0 | 2930.4 | 2920.0 | 2914.2 | 2910.7 |
| 17.5° | 3013.9 | 3018.6 | 3016.3 | 3023.2 | 3034.8 | 3040.6 | 3033.7 | 3018.6 | 3008.1 | 2995.4 | 2988.4 |
| 20° | 3118.3 | 3126.5 | 3128.8 | 3128.8 | 3139.2 | 3145.0 | 3134.6 | 3129.9 | 3113.7 | 3104.4 | 3098.6 |
| 22.5° | 3236.7 | 3240.2 | 3247.1 | 3254.1 | 3264.5 | 3262.2 | 3258.7 | 3251.8 | 3236.7 | 3228.6 | 3219.3 |
| 25° | 3370.1 | 3373.6 | 3391.0 | 3406.1 | 3409.5 | 3407.2 | 3402.6 | 3399.1 | 3385.2 | 3366.6 | 3359.6 |
| 27.5° | 3525.5 | 3532.5 | 3555.7 | 3569.6 | 3569.6 | 3570.8 | 3561.5 | 3573.1 | 3542.9 | 3520.9 | 3518.6 |
| 30° | 3720.4 | 3725.1 | 3744.8 | 3758.7 | 3751.8 | 3746.0 | 3743.6 | 3755.2 | 3722.8 | 3683.3 | 3674.0 |
| 32.5° | 3913.0 | 3929.3 | 3946.7 | 3976.8 | 3952.5 | 3942.0 | 3939.7 | 3947.8 | 3910.7 | 3866.6 | 3853.8 |
| 35° | 4119.5 | 4131.1 | 4163.6 | 4189.1 | 4167.1 | 4142.7 | 4153.2 | 4178.7 | 4134.6 | 4075.4 | 4073.1 |
| 37.5° | 4348.1 | 4358.5 | 4400.3 | 4426.9 | 4410.7 | 4368.9 | 4386.3 | 4416.5 | 4372.4 | 4299.3 | 4284.2 |
| 40° | 4585.9 | 4607.9 | 4660.1 | 4688.0 | 4661.3 | 4605.6 | 4638.1 | 4670.6 | 4631.1 | 4546.4 | 4512.8 |
| 42.5° | 4852.7 | 4887.5 | 4962.9 | 4976.8 | 4925.8 | 4850.4 | 4907.2 | 4959.4 | 4931.6 | 4834.1 | 4821.4 |
| 45° | 5164.8 | 5185.6 | 5278.5 | 5308.6 | 5237.8 | 5143.9 | 5214.6 | 5309.8 | 5288.9 | 5176.4 | 5152.0 |
| 47.5° | 5514.0 | 5533.7 | 5630.0 | 5675.2 | 5585.9 | 5459.4 | 5587.0 | 5711.2 | 5698.4 | 5577.8 | 5566.2 |
| 50° | 5926.9 | 5931.6 | 6065.0 | 6116.0 | 6026.7 | 5917.7 | 6031.4 | 6185.6 | 6134.6 | 5980.3 | 5978.0 |
| 52.5° | 6379.4 | 6385.2 | 6553.4 | 6652.0 | 6602.1 | 6479.2 | 6613.7 | 6707.7 | 6577.8 | 6375.9 | 6360.8 |
| 55° | 6771.5 | 6800.5 | 7030.2 | 7292.4 | 7360.8 | 7271.5 | 7312.1 | 7268.0 | 6947.8 | 6664.8 | 6620.7 |
| 57.5° | 6931.6 | 6988.4 | 7337.6 | 7827.2 | 8272.7 | 8404.9 | 8091.7 | 7671.7 | 7095.2 | 6694.9 | 6652.0 |
| 60° | 6540.6 | 6602.1 | 7143.9 | 8073.1 | 9210.0 | 9784.3 | 8903.8 | 7740.2 | 6759.9 | 6197.2 | 6130.0 |
| 62.5° | 5237.8 | 5255.2 | 6052.2 | 7494.2 | 9756.4 | 11243.7 | 9246.0 | 7156.7 | 5784.3 | 5019.7 | 4993.1 |
| 64° | 3769.2 | 3947.8 | 4792.4 | 6570.8 | 9517.5 | 11799.4 | 9048.8 | 6338.8 | 4698.4 | 3924.6 | 3799.3 |
| 65° | 2819.0 | 2867.8 | 3863.1 | 5611.4 | 9096.3 | 11757.6 | 8665.9 | 5556.9 | 3891.0 | 3003.5 | 2864.3 |
| 67.5° | 1065.0 | 1070.8 | 1425.8 | 2797.0 | 6475.7 | 10116.1 | 6613.7 | 3023.2 | 1639.2 | 1185.6 | 1142.7 |
| 70° | 442.0 | 450.1 | 523.2 | 940.8 | 2783.1 | 6495.4 | 3189.1 | 1090.5 | 599.8 | 486.1 | 479.1 |
| 72.5° | 323.7 | 328.3 | 350.3 | 417.6 | 856.2 | 2667.1 | 1048.7 | 462.9 | 351.5 | 314.4 | 310.9 |
| 75° | 254.1 | 256.4 | 272.6 | 307.4 | 399.1 | 739.0 | 436.2 | 317.9 | 268.0 | 241.3 | 239.0 |
| 77.5° | 193.7 | 199.5 | 211.1 | 234.3 | 268.0 | 350.3 | 288.9 | 237.8 | 206.5 | 184.5 | 181.0 |
| 80° | 133.4 | 140.4 | 162.4 | 171.7 | 179.8 | 227.4 | 197.2 | 179.8 | 161.3 | 134.6 | 126.5 |
| 82.5° | 82.4 | 87.0 | 109.0 | 117.2 | 113.7 | 127.6 | 126.5 | 128.8 | 114.8 | 83.5 | 77.7 |
| 85° | 42.9 | 45.2 | 59.2 | 61.5 | 56.8 | 52.2 | 65.0 | 75.4 | 70.8 | 47.6 | 46.4 |
| 87.5° | 9.3 | 10.4 | 12.8 | 11.6 | 12.8 | 12.8 | 16.2 | 24.4 | 25.5 | 16.2 | 15.1 |
| 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)