

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: P529835

Luminaire Tested: **GALN-SA5A-735-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529835
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-735-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14656 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

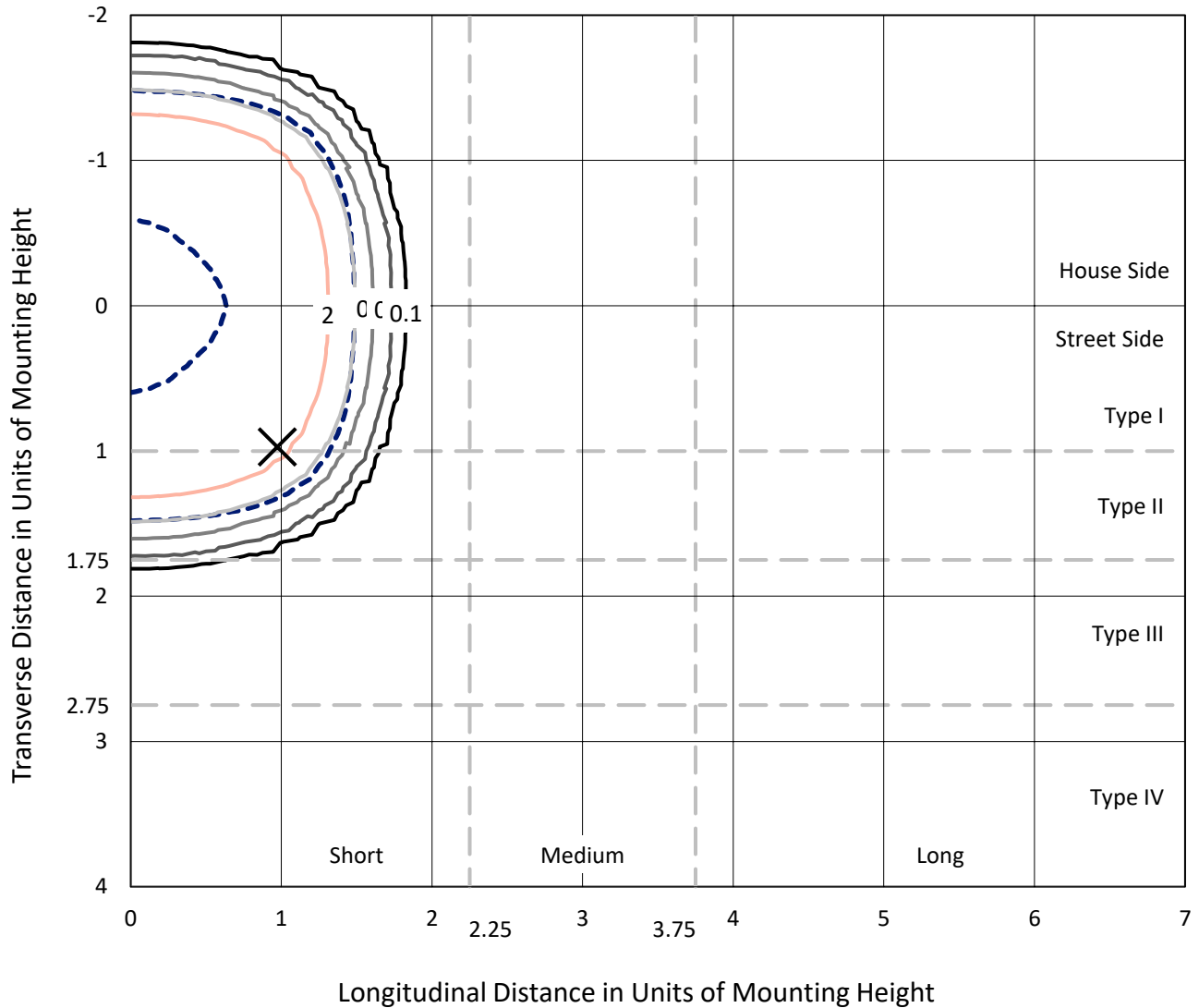
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

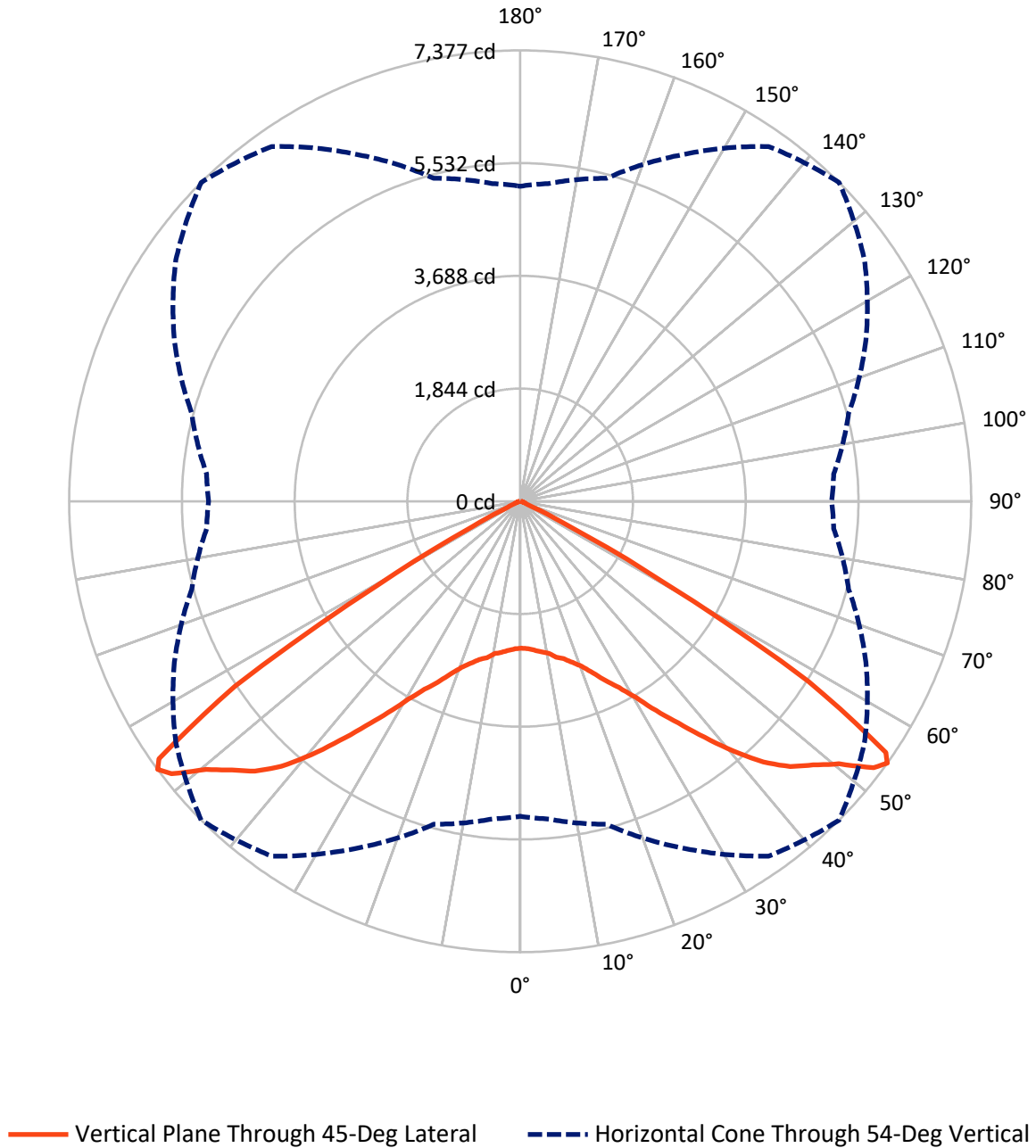
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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 | 7328.0 | 0.0 | 7328.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 7328.0 | 0.0 | 7328.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 14656.0 | 0.0 | 14656.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 235.2 | 1.6 |
| 10°-20° | 761.7 | 5.2 |
| 20°-30° | 1492.9 | 10.2 |
| 30°-40° | 2684.5 | 18.3 |
| 40°-50° | 4595.4 | 31.4 |
| 50°-60° | 4446.5 | 30.3 |
| 60°-70° | 380.6 | 2.6 |
| 70°-80° | 45.1 | 0.3 |
| 80°-90° | 14.1 | 0.1 |
| 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° | 14656.0 | 100.0 |
| 0°-180° | 14656.0 | 100.0 |

Coefficient of Utilization



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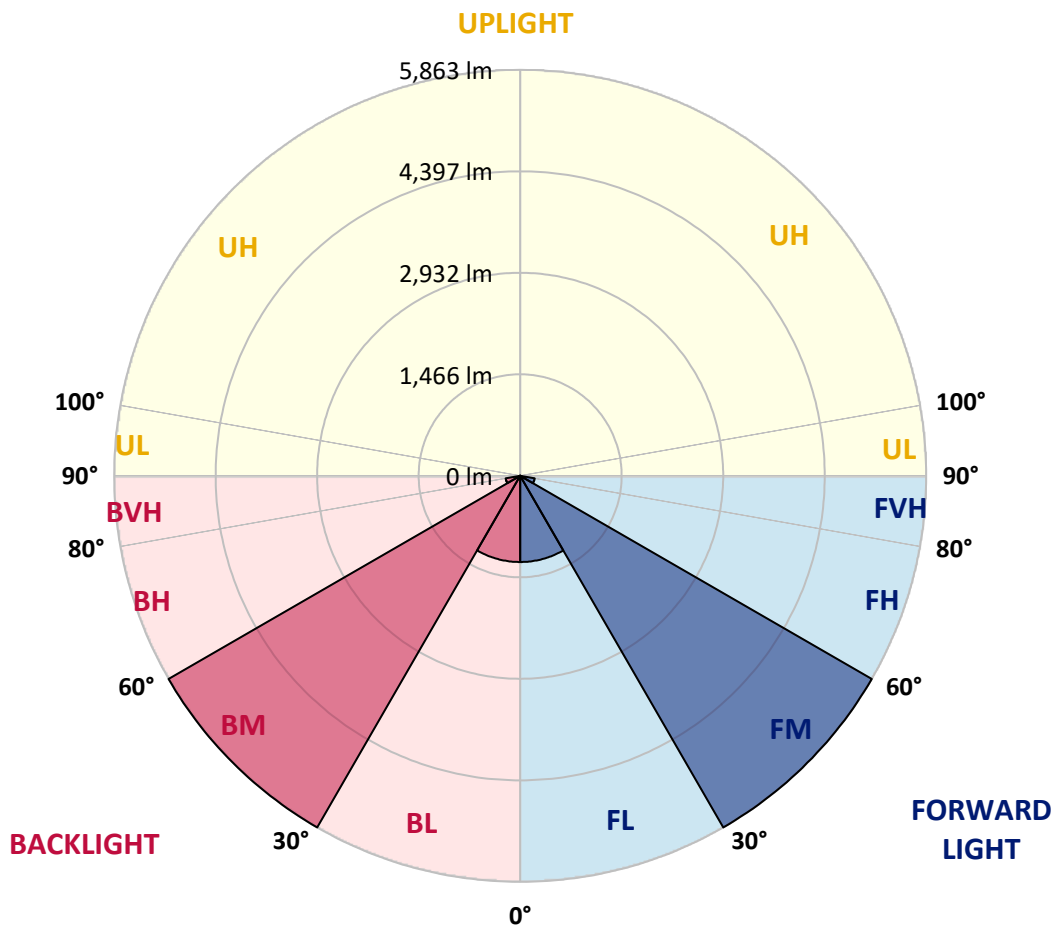
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1244.9 | 8.5 | | | |
| FM (30°-60°) | 5863.2 | 40.0 | | | |
| FH (60°-80°) | 212.9 | 1.5 | | | G0/660 |
| FVH (80°-90°) | 7.1 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1244.9 | 8.5 | B3/2500 | | |
| BM (30°-60°) | 5863.2 | 40.0 | B4/8500 | | |
| BH (60°-80°) | 212.9 | 1.5 | B1/500 | | G0/660 |
| BVH (80°-90°) | 7.1 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2403.1 | 2403.1 | 2403.1 | 2403.1 | 2403.1 | 2403.1 | 2403.1 | 2403.1 | 2403.1 | 2403.1 | 2403.1 |
| 2.5° | 2414.7 | 2428.7 | 2419.4 | 2426.3 | 2426.3 | 2414.7 | 2421.7 | 2393.8 | 2412.4 | 2398.5 | 2400.8 |
| 5° | 2451.9 | 2449.6 | 2449.6 | 2451.9 | 2442.6 | 2447.2 | 2438.0 | 2428.7 | 2421.7 | 2412.4 | 2440.3 |
| 7.5° | 2498.3 | 2498.3 | 2482.1 | 2486.7 | 2482.1 | 2489.0 | 2470.5 | 2451.9 | 2444.9 | 2438.0 | 2433.3 |
| 10° | 2542.4 | 2537.8 | 2530.8 | 2551.7 | 2535.5 | 2526.2 | 2516.9 | 2505.3 | 2479.7 | 2470.5 | 2461.2 |
| 12.5° | 2607.5 | 2605.1 | 2595.8 | 2616.7 | 2607.5 | 2616.7 | 2581.9 | 2551.7 | 2547.1 | 2516.9 | 2533.2 |
| 15° | 2684.1 | 2705.0 | 2688.7 | 2688.7 | 2684.1 | 2672.5 | 2658.5 | 2644.6 | 2602.8 | 2591.2 | 2593.5 |
| 17.5° | 2783.9 | 2776.9 | 2779.3 | 2779.3 | 2802.5 | 2772.3 | 2744.4 | 2709.6 | 2688.7 | 2681.8 | 2658.5 |
| 20° | 2879.1 | 2888.4 | 2886.1 | 2902.3 | 2916.3 | 2883.8 | 2853.6 | 2848.9 | 2790.9 | 2800.2 | 2767.7 |
| 22.5° | 3046.3 | 3039.3 | 3050.9 | 3062.5 | 3053.2 | 3048.6 | 3020.7 | 2985.9 | 2934.8 | 2911.6 | 2907.0 |
| 25° | 3222.7 | 3211.1 | 3190.2 | 3218.1 | 3232.0 | 3252.9 | 3199.5 | 3181.0 | 3102.0 | 3067.2 | 3069.5 |
| 27.5° | 3373.7 | 3389.9 | 3413.1 | 3424.7 | 3459.6 | 3452.6 | 3415.5 | 3355.1 | 3294.7 | 3255.3 | 3229.7 |
| 30° | 3580.3 | 3589.6 | 3629.1 | 3645.3 | 3705.7 | 3721.9 | 3663.9 | 3594.2 | 3487.4 | 3436.4 | 3406.2 |
| 32.5° | 3770.7 | 3835.7 | 3833.4 | 3914.7 | 4012.2 | 4079.5 | 3975.0 | 3868.2 | 3761.4 | 3701.0 | 3647.6 |
| 35° | 4079.5 | 4067.9 | 4135.2 | 4221.1 | 4379.0 | 4455.7 | 4341.9 | 4218.8 | 4056.3 | 3958.8 | 3917.0 |
| 37.5° | 4367.4 | 4372.1 | 4462.6 | 4599.6 | 4780.7 | 4899.1 | 4799.3 | 4597.3 | 4430.1 | 4304.7 | 4246.7 |
| 40° | 4785.4 | 4794.6 | 4887.5 | 5043.1 | 5247.4 | 5375.1 | 5259.0 | 5054.7 | 4831.8 | 4734.3 | 4734.3 |
| 42.5° | 5275.3 | 5314.7 | 5375.1 | 5509.8 | 5693.2 | 5834.8 | 5730.4 | 5570.1 | 5344.9 | 5219.5 | 5238.1 |
| 45° | 5779.1 | 5797.7 | 5837.2 | 6036.8 | 6122.8 | 6192.4 | 6094.9 | 6020.6 | 5869.7 | 5716.4 | 5690.9 |
| 47.5° | 6250.5 | 6257.4 | 6373.5 | 6436.2 | 6503.5 | 6445.5 | 6508.2 | 6410.7 | 6241.2 | 6092.6 | 6062.4 |
| 50° | 6459.4 | 6447.8 | 6612.7 | 6803.1 | 6854.1 | 6752.0 | 6698.6 | 6633.6 | 6375.8 | 6197.1 | 6118.1 |
| 52.5° | 5851.1 | 5918.4 | 6224.9 | 6754.3 | 7153.7 | 7239.6 | 6928.4 | 6628.9 | 6148.3 | 5800.0 | 5746.6 |
| 54° | 5154.5 | 5217.2 | 5470.3 | 6255.1 | 7086.3 | 7376.6 | 6875.0 | 6238.8 | 5560.9 | 5147.6 | 5094.2 |
| 55° | 4464.9 | 4395.3 | 4855.0 | 5656.1 | 6770.6 | 7255.8 | 6663.7 | 5735.0 | 4959.5 | 4581.0 | 4506.7 |
| 57.5° | 2417.1 | 2428.7 | 2816.4 | 3573.3 | 4757.5 | 5563.2 | 4913.1 | 3879.8 | 2930.2 | 2505.3 | 2468.1 |
| 60° | 766.2 | 784.8 | 954.3 | 1444.2 | 2273.1 | 2714.3 | 2326.5 | 1558.0 | 1077.3 | 863.7 | 828.9 |
| 62.5° | 239.2 | 248.4 | 271.7 | 404.0 | 622.3 | 889.3 | 696.6 | 417.9 | 311.1 | 285.6 | 290.2 |
| 65° | 146.3 | 146.3 | 148.6 | 157.9 | 185.7 | 215.9 | 209.0 | 183.4 | 176.5 | 171.8 | 169.5 |
| 67.5° | 95.2 | 92.9 | 97.5 | 104.5 | 109.1 | 111.4 | 118.4 | 125.4 | 123.1 | 118.4 | 118.4 |
| 70° | 58.0 | 55.7 | 60.4 | 69.7 | 72.0 | 76.6 | 83.6 | 92.9 | 90.6 | 85.9 | 88.2 |
| 72.5° | 32.5 | 32.5 | 34.8 | 41.8 | 48.8 | 53.4 | 60.4 | 67.3 | 69.7 | 67.3 | 67.3 |
| 75° | 11.6 | 13.9 | 18.6 | 25.5 | 30.2 | 37.1 | 44.1 | 51.1 | 58.0 | 53.4 | 51.1 |
| 77.5° | 4.6 | 4.6 | 9.3 | 16.3 | 23.2 | 30.2 | 41.8 | 48.8 | 53.4 | 48.8 | 44.1 |
| 80° | 2.3 | 2.3 | 7.0 | 13.9 | 20.9 | 27.9 | 34.8 | 41.8 | 44.1 | 39.5 | 34.8 |
| 82.5° | 2.3 | 2.3 | 7.0 | 13.9 | 20.9 | 25.5 | 37.1 | 41.8 | 46.4 | 41.8 | 34.8 |
| 85° | 0.0 | 2.3 | 7.0 | 13.9 | 18.6 | 20.9 | 20.9 | 13.9 | 11.6 | 7.0 | 7.0 |
| 87.5° | 0.0 | 0.0 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)