

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: P531761

Luminaire Tested: **GALN-SA7A-750-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531761
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-750-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16615 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

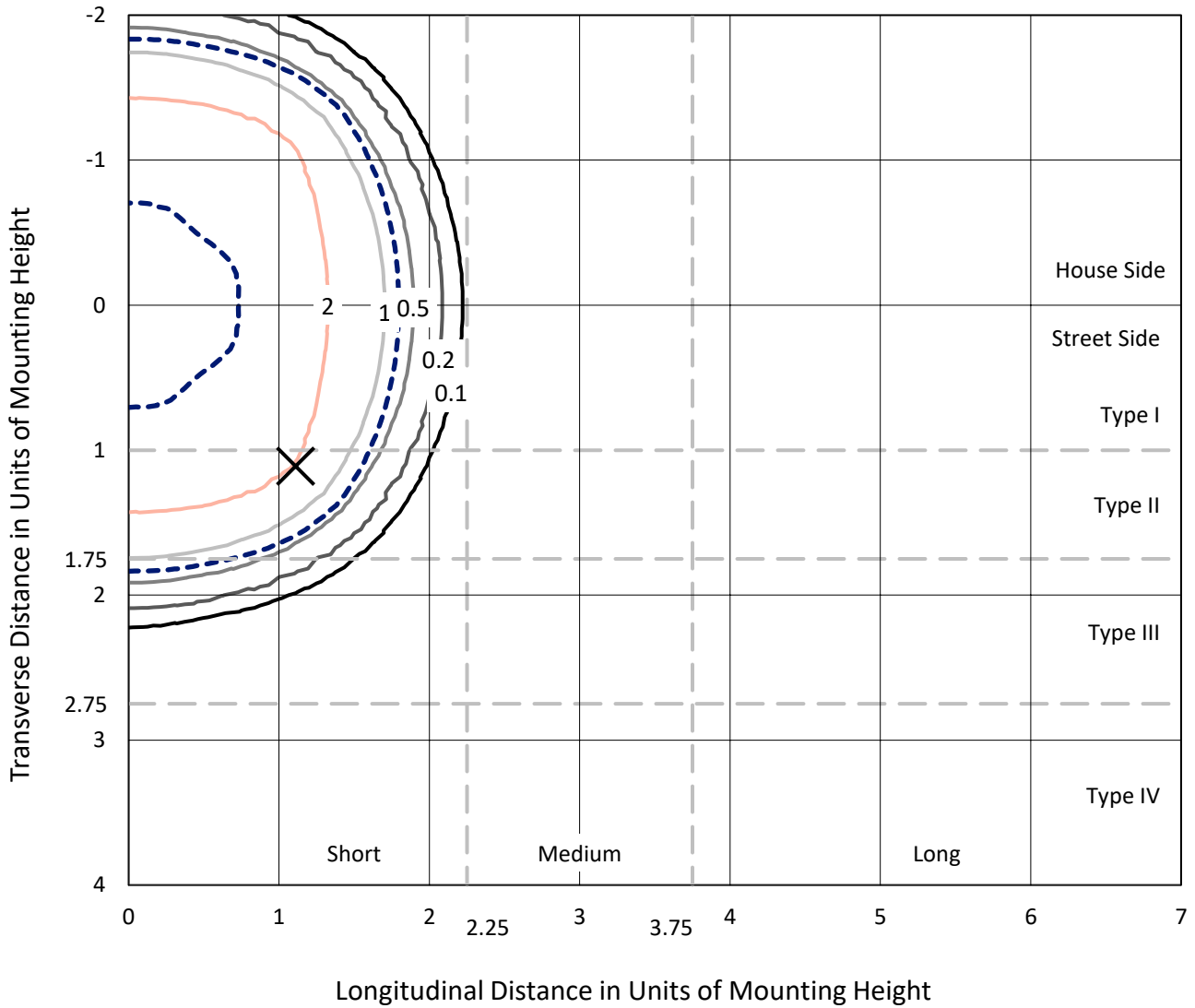
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

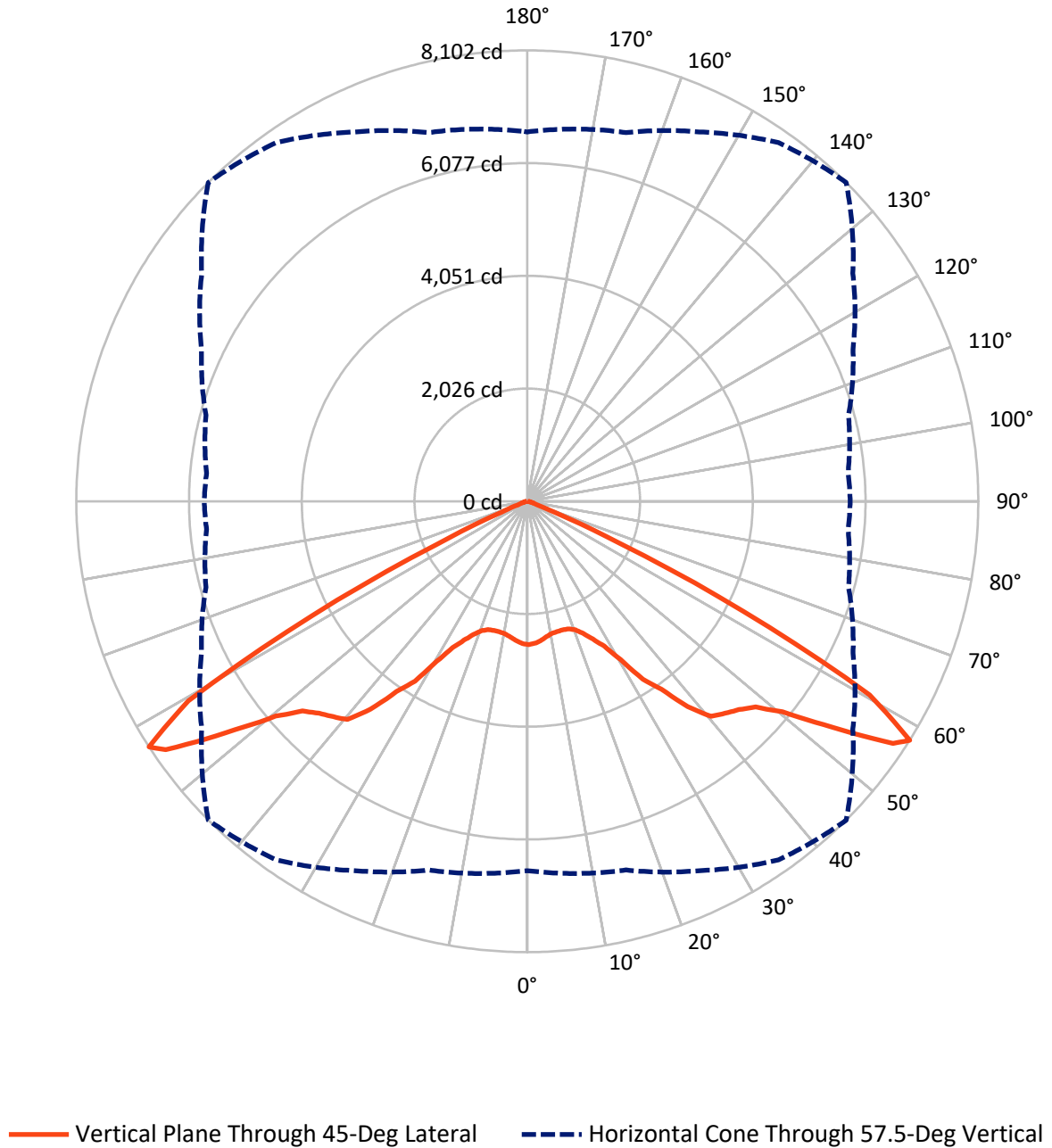
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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 | 8307.5 | 0.0 | 8307.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 8307.5 | 0.0 | 8307.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 16615.0 | 0.0 | 16615.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 236.8 | 1.4 |
| 10°-20° | 684.5 | 4.1 |
| 20°-30° | 1263.6 | 7.6 |
| 30°-40° | 2485.0 | 15.0 |
| 40°-50° | 4047.3 | 24.4 |
| 50°-60° | 5772.0 | 34.7 |
| 60°-70° | 1998.4 | 12.0 |
| 70°-80° | 107.2 | 0.6 |
| 80°-90° | 20.1 | 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° | 16615.0 | 100.0 |
| 0°-180° | 16615.0 | 100.0 |

Coefficient of Utilization



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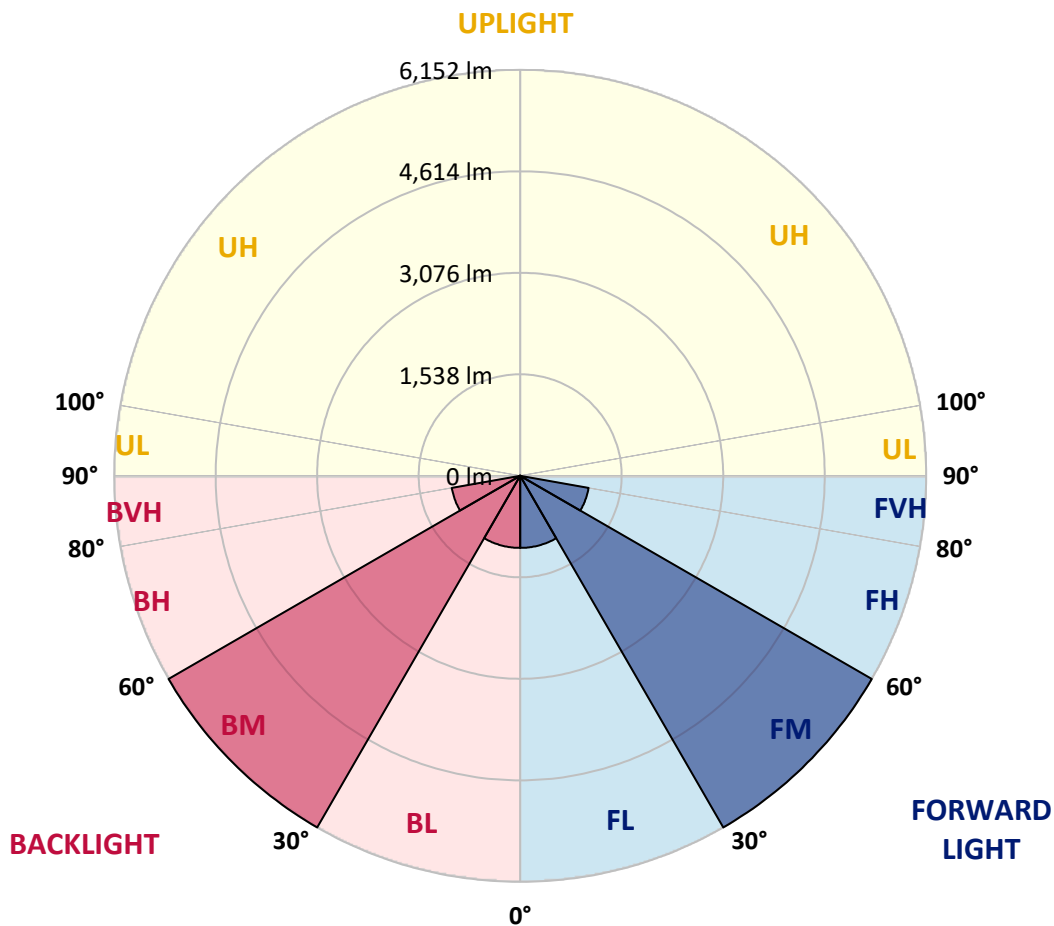
CATALOG NUMBER: GALN-SA7A-750-U-5WQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1092.5 | 6.6 | | | |
| FM (30°-60°) | 6152.2 | 37.0 | | | |
| FH (60°-80°) | 1052.8 | 6.3 | | | G1/1800 |
| FVH (80°-90°) | 10.1 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1092.5 | 6.6 | B3/2500 | | |
| BM (30°-60°) | 6152.2 | 37.0 | B4/8500 | | |
| BH (60°-80°) | 1052.8 | 6.3 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 10.1 | 0.1 | | | 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° | 2577.2 | 2577.2 | 2577.2 | 2577.2 | 2577.2 | 2577.2 | 2577.2 | 2577.2 | 2577.2 | 2577.2 | 2577.2 |
| 2.5° | 2570.2 | 2584.1 | 2566.8 | 2559.8 | 2556.4 | 2556.4 | 2546.0 | 2546.0 | 2542.5 | 2546.0 | 2532.1 |
| 5° | 2528.7 | 2542.5 | 2542.5 | 2539.1 | 2518.3 | 2514.8 | 2504.4 | 2497.5 | 2501.0 | 2487.1 | 2497.5 |
| 7.5° | 2487.1 | 2497.5 | 2483.6 | 2480.2 | 2473.2 | 2459.4 | 2455.9 | 2424.7 | 2428.2 | 2428.2 | 2435.1 |
| 10° | 2480.2 | 2476.7 | 2455.9 | 2438.6 | 2417.8 | 2414.4 | 2404.0 | 2397.0 | 2397.0 | 2393.6 | 2404.0 |
| 12.5° | 2480.2 | 2462.9 | 2459.4 | 2421.3 | 2386.6 | 2400.5 | 2372.8 | 2355.5 | 2379.7 | 2386.6 | 2400.5 |
| 15° | 2476.7 | 2494.0 | 2435.1 | 2417.8 | 2393.6 | 2397.0 | 2372.8 | 2355.5 | 2369.3 | 2376.3 | 2386.6 |
| 17.5° | 2497.5 | 2487.1 | 2469.8 | 2435.1 | 2424.7 | 2410.9 | 2379.7 | 2365.9 | 2365.9 | 2383.2 | 2386.6 |
| 20° | 2552.9 | 2525.2 | 2490.6 | 2473.2 | 2483.6 | 2466.3 | 2428.2 | 2376.3 | 2390.1 | 2404.0 | 2414.4 |
| 22.5° | 2604.9 | 2584.1 | 2559.8 | 2549.4 | 2608.3 | 2580.6 | 2514.8 | 2455.9 | 2435.1 | 2459.4 | 2476.7 |
| 25° | 2705.3 | 2705.3 | 2660.3 | 2674.2 | 2740.0 | 2743.4 | 2667.2 | 2563.3 | 2549.4 | 2559.8 | 2566.8 |
| 27.5° | 2909.7 | 2920.1 | 2882.0 | 2895.8 | 2923.6 | 2947.8 | 2882.0 | 2795.4 | 2764.2 | 2760.7 | 2771.1 |
| 30° | 3131.4 | 3152.2 | 3148.7 | 3207.6 | 3287.3 | 3301.1 | 3204.1 | 3062.1 | 2968.6 | 2951.3 | 2965.1 |
| 32.5° | 3422.4 | 3432.8 | 3425.8 | 3495.1 | 3709.9 | 3810.3 | 3557.5 | 3356.5 | 3231.8 | 3263.0 | 3231.8 |
| 35° | 3969.7 | 3959.3 | 3883.1 | 3896.9 | 4073.6 | 4146.3 | 3903.8 | 3775.7 | 3716.8 | 3779.1 | 3765.3 |
| 37.5° | 4440.8 | 4402.6 | 4340.3 | 4430.4 | 4613.9 | 4679.8 | 4426.9 | 4201.7 | 4094.4 | 4198.3 | 4243.3 |
| 40° | 4839.1 | 4742.1 | 4655.5 | 4745.6 | 4991.5 | 5081.6 | 4710.9 | 4527.4 | 4485.8 | 4562.0 | 4659.0 |
| 42.5° | 5175.1 | 5112.8 | 4998.4 | 5005.4 | 5168.2 | 5209.7 | 4911.8 | 4804.5 | 4762.9 | 4884.1 | 4932.6 |
| 45° | 5414.1 | 5355.2 | 5247.8 | 5240.9 | 5365.6 | 5337.9 | 5071.2 | 4998.4 | 5022.7 | 5102.4 | 5126.6 |
| 47.5° | 5535.4 | 5566.5 | 5504.2 | 5521.5 | 5587.3 | 5521.5 | 5310.2 | 5310.2 | 5254.8 | 5303.3 | 5279.0 |
| 50° | 5885.2 | 5788.2 | 5867.9 | 5867.9 | 5937.2 | 5944.1 | 5732.8 | 5656.6 | 5507.6 | 5424.5 | 5424.5 |
| 52.5° | 6294.0 | 6300.9 | 6332.1 | 6446.4 | 6564.1 | 6664.6 | 6363.2 | 6037.6 | 5788.2 | 5680.8 | 5667.0 |
| 55° | 6630.0 | 6699.2 | 6823.9 | 7038.7 | 7378.2 | 7516.7 | 6997.1 | 6415.2 | 6110.4 | 5944.1 | 5909.5 |
| 56° | 6813.5 | 6747.7 | 6962.5 | 7256.9 | 7700.3 | 7880.4 | 7101.0 | 6491.4 | 6155.4 | 5968.3 | 5964.9 |
| 57.5° | 6636.9 | 6709.6 | 6858.6 | 7322.7 | 7866.6 | 8102.1 | 7139.2 | 6456.8 | 5975.3 | 5784.8 | 5802.1 |
| 60° | 5240.9 | 5310.2 | 5511.1 | 6030.7 | 6882.8 | 7066.4 | 6041.1 | 5324.1 | 4894.5 | 4620.9 | 4624.3 |
| 62.5° | 2965.1 | 3017.1 | 3173.0 | 3654.4 | 4184.4 | 4361.1 | 3765.3 | 3287.3 | 2989.4 | 2837.0 | 2788.5 |
| 65° | 1091.1 | 1070.4 | 1094.6 | 1340.5 | 1666.1 | 1815.1 | 1565.7 | 1323.2 | 1167.3 | 1111.9 | 1091.1 |
| 67.5° | 408.7 | 377.6 | 353.3 | 377.6 | 474.6 | 502.3 | 460.7 | 384.5 | 360.2 | 370.6 | 377.6 |
| 70° | 252.9 | 239.0 | 190.5 | 180.1 | 176.7 | 173.2 | 183.6 | 194.0 | 221.7 | 259.8 | 266.7 |
| 72.5° | 176.7 | 166.3 | 135.1 | 128.2 | 121.2 | 117.8 | 135.1 | 148.9 | 173.2 | 200.9 | 204.4 |
| 75° | 69.3 | 72.7 | 69.3 | 76.2 | 79.7 | 83.1 | 97.0 | 107.4 | 117.8 | 117.8 | 114.3 |
| 77.5° | 13.9 | 13.9 | 20.8 | 27.7 | 34.6 | 45.0 | 65.8 | 76.2 | 79.7 | 76.2 | 65.8 |
| 80° | 0.0 | 0.0 | 6.9 | 13.9 | 27.7 | 38.1 | 58.9 | 65.8 | 72.7 | 65.8 | 52.0 |
| 82.5° | 0.0 | 0.0 | 6.9 | 17.3 | 27.7 | 34.6 | 55.4 | 69.3 | 79.7 | 72.7 | 55.4 |
| 85° | 0.0 | 0.0 | 6.9 | 13.9 | 20.8 | 24.2 | 24.2 | 17.3 | 17.3 | 10.4 | 6.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 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)