

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: P531969

Luminaire Tested: **GALN-SA7B-740-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531969
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-SA7B-740-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA 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: 20673 lumens
Efficiency: N/A
Efficacy: 72.3 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

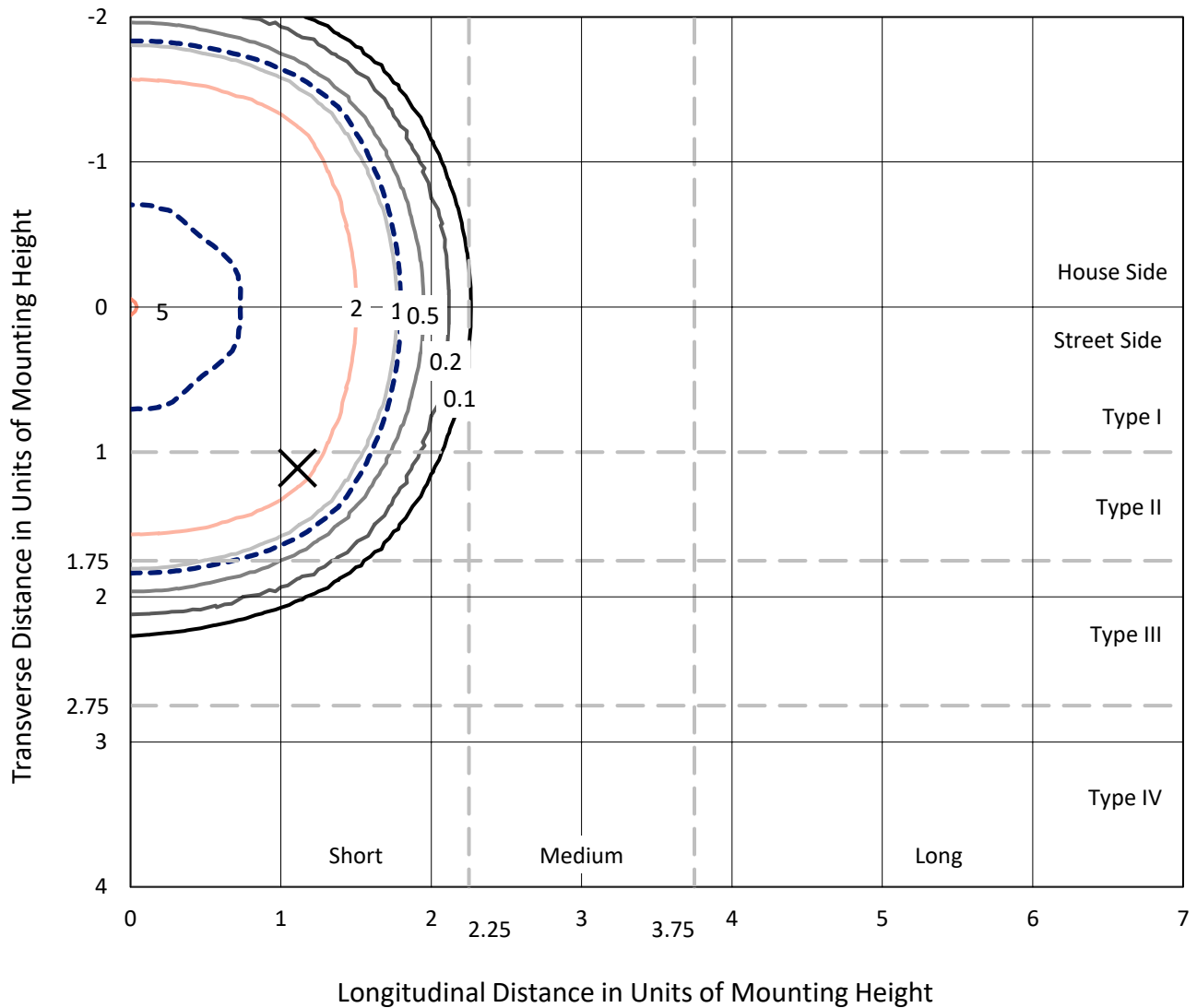
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

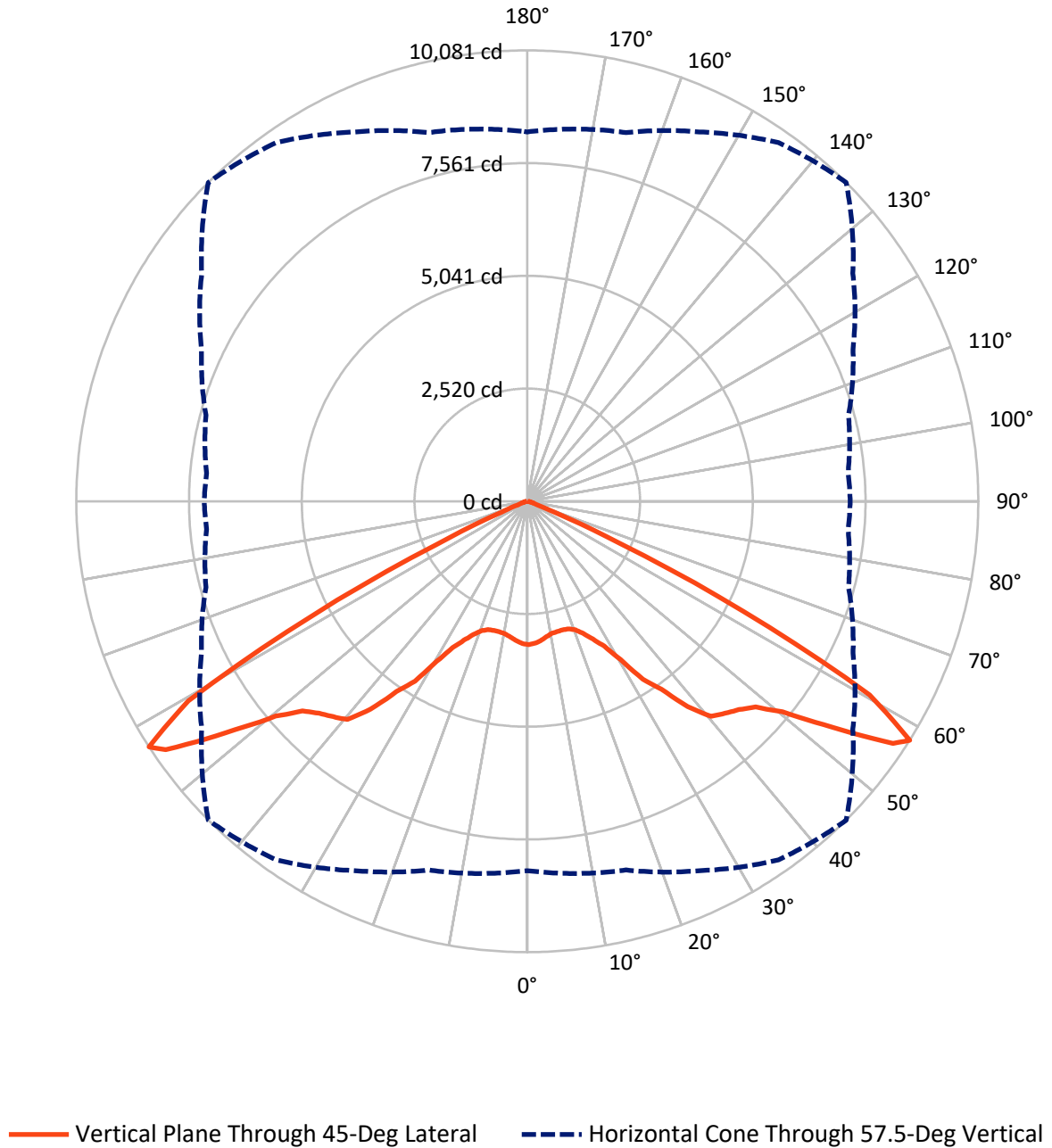
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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 | 10336.5 | 0.0 | 10336.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 10336.5 | 0.0 | 10336.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 20673.0 | 0.0 | 20673.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 294.7 | 1.4 |
| 10°-20° | 851.7 | 4.1 |
| 20°-30° | 1572.2 | 7.6 |
| 30°-40° | 3091.9 | 15.0 |
| 40°-50° | 5035.8 | 24.4 |
| 50°-60° | 7181.7 | 34.7 |
| 60°-70° | 2486.5 | 12.0 |
| 70°-80° | 133.4 | 0.6 |
| 80°-90° | 25.1 | 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° | 20673.0 | 100.0 |
| 0°-180° | 20673.0 | 100.0 |

Coefficient of Utilization



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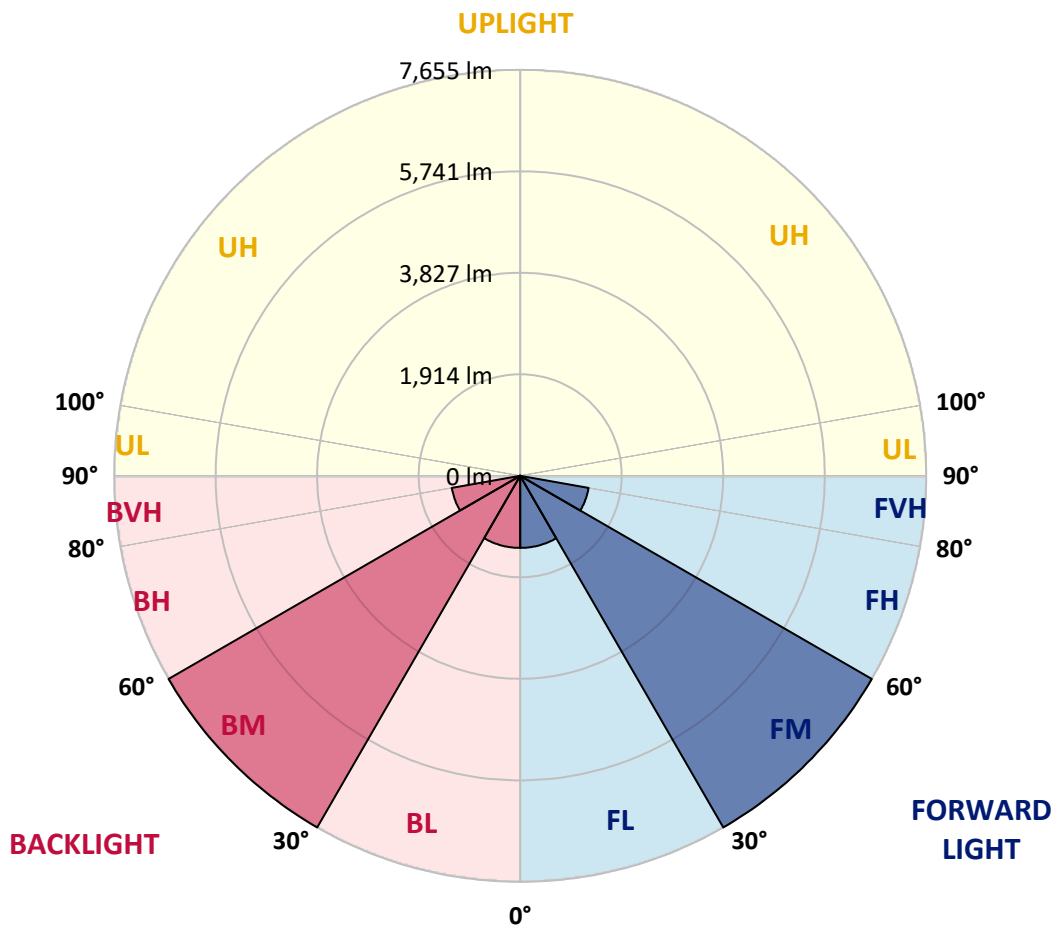
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1359.3 | 6.6 | | | |
| FM (30°-60°) | 7654.7 | 37.0 | | | |
| FH (60°-80°) | 1309.9 | 6.3 | | | G1/1800 |
| FVH (80°-90°) | 12.5 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1359.3 | 6.6 | B3/2500 | | |
| BM (30°-60°) | 7654.7 | 37.0 | B4/8500 | | |
| BH (60°-80°) | 1309.9 | 6.3 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 12.5 | 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° | 3206.6 | 3206.6 | 3206.6 | 3206.6 | 3206.6 | 3206.6 | 3206.6 | 3206.6 | 3206.6 | 3206.6 | 3206.6 |
| 2.5° | 3198.0 | 3215.2 | 3193.7 | 3185.0 | 3180.7 | 3180.7 | 3167.8 | 3167.8 | 3163.5 | 3167.8 | 3150.6 |
| 5° | 3146.3 | 3163.5 | 3163.5 | 3159.2 | 3133.3 | 3129.0 | 3116.1 | 3107.5 | 3111.8 | 3094.5 | 3107.5 |
| 7.5° | 3094.5 | 3107.5 | 3090.2 | 3085.9 | 3077.3 | 3060.1 | 3055.8 | 3017.0 | 3021.3 | 3021.3 | 3029.9 |
| 10° | 3085.9 | 3081.6 | 3055.8 | 3034.2 | 3008.3 | 3004.0 | 2991.1 | 2982.5 | 2982.5 | 2978.2 | 2991.1 |
| 12.5° | 3085.9 | 3064.4 | 3060.1 | 3012.7 | 2969.6 | 2986.8 | 2952.3 | 2930.8 | 2960.9 | 2969.6 | 2986.8 |
| 15° | 3081.6 | 3103.2 | 3029.9 | 3008.3 | 2978.2 | 2982.5 | 2952.3 | 2930.8 | 2948.0 | 2956.6 | 2969.6 |
| 17.5° | 3107.5 | 3094.5 | 3073.0 | 3029.9 | 3017.0 | 2999.7 | 2960.9 | 2943.7 | 2943.7 | 2965.2 | 2969.6 |
| 20° | 3176.4 | 3141.9 | 3098.9 | 3077.3 | 3090.2 | 3068.7 | 3021.3 | 2956.6 | 2973.9 | 2991.1 | 3004.0 |
| 22.5° | 3241.1 | 3215.2 | 3185.0 | 3172.1 | 3245.4 | 3210.9 | 3129.0 | 3055.8 | 3029.9 | 3060.1 | 3081.6 |
| 25° | 3366.1 | 3366.1 | 3310.0 | 3327.3 | 3409.2 | 3413.5 | 3318.7 | 3189.4 | 3172.1 | 3185.0 | 3193.7 |
| 27.5° | 3620.4 | 3633.3 | 3585.9 | 3603.1 | 3637.6 | 3667.8 | 3585.9 | 3478.1 | 3439.3 | 3435.0 | 3448.0 |
| 30° | 3896.2 | 3922.0 | 3917.7 | 3991.0 | 4090.1 | 4107.4 | 3986.7 | 3810.0 | 3693.6 | 3672.1 | 3689.3 |
| 32.5° | 4258.2 | 4271.2 | 4262.5 | 4348.7 | 4616.0 | 4740.9 | 4426.3 | 4176.3 | 4021.2 | 4060.0 | 4021.2 |
| 35° | 4939.2 | 4926.3 | 4831.4 | 4848.7 | 5068.5 | 5159.0 | 4857.3 | 4697.8 | 4624.6 | 4702.1 | 4684.9 |
| 37.5° | 5525.3 | 5477.9 | 5400.4 | 5512.4 | 5740.8 | 5822.7 | 5508.1 | 5228.0 | 5094.4 | 5223.7 | 5279.7 |
| 40° | 6021.0 | 5900.3 | 5792.6 | 5904.6 | 6210.6 | 6322.7 | 5861.5 | 5633.1 | 5581.4 | 5676.2 | 5796.9 |
| 42.5° | 6439.1 | 6361.5 | 6219.3 | 6227.9 | 6430.4 | 6482.2 | 6111.5 | 5977.9 | 5926.2 | 6077.0 | 6137.4 |
| 45° | 6736.4 | 6663.2 | 6529.6 | 6520.9 | 6676.1 | 6641.6 | 6309.8 | 6219.3 | 6249.4 | 6348.5 | 6378.7 |
| 47.5° | 6887.3 | 6926.1 | 6848.5 | 6870.1 | 6951.9 | 6870.1 | 6607.1 | 6607.1 | 6538.2 | 6598.5 | 6568.4 |
| 50° | 7322.6 | 7201.9 | 7301.0 | 7301.0 | 7387.2 | 7395.9 | 7133.0 | 7038.1 | 6852.8 | 6749.4 | 6749.4 |
| 52.5° | 7831.2 | 7839.8 | 7878.6 | 8020.8 | 8167.3 | 8292.3 | 7917.4 | 7512.2 | 7201.9 | 7068.3 | 7051.1 |
| 55° | 8249.2 | 8335.4 | 8490.6 | 8757.8 | 9180.2 | 9352.6 | 8706.1 | 7982.0 | 7602.7 | 7395.9 | 7352.8 |
| 56° | 8477.7 | 8395.8 | 8663.0 | 9029.3 | 9581.0 | 9805.1 | 8835.4 | 8076.8 | 7658.8 | 7426.0 | 7421.7 |
| 57.5° | 8257.9 | 8348.4 | 8533.7 | 9111.2 | 9787.9 | 10081.0 | 8882.8 | 8033.7 | 7434.7 | 7197.6 | 7219.2 |
| 60° | 6520.9 | 6607.1 | 6857.1 | 7503.6 | 8563.9 | 8792.3 | 7516.5 | 6624.4 | 6090.0 | 5749.5 | 5753.8 |
| 62.5° | 3689.3 | 3754.0 | 3947.9 | 4547.0 | 5206.4 | 5426.2 | 4684.9 | 4090.1 | 3719.5 | 3529.8 | 3469.5 |
| 65° | 1357.6 | 1331.8 | 1361.9 | 1667.9 | 2073.1 | 2258.4 | 1948.1 | 1646.4 | 1452.5 | 1383.5 | 1357.6 |
| 67.5° | 508.6 | 469.8 | 439.6 | 469.8 | 590.5 | 624.9 | 573.2 | 478.4 | 448.2 | 461.2 | 469.8 |
| 70° | 314.6 | 297.4 | 237.0 | 224.1 | 219.8 | 215.5 | 228.4 | 241.4 | 275.8 | 323.2 | 331.9 |
| 72.5° | 219.8 | 206.9 | 168.1 | 159.5 | 150.8 | 146.5 | 168.1 | 185.3 | 215.5 | 250.0 | 254.3 |
| 75° | 86.2 | 90.5 | 86.2 | 94.8 | 99.1 | 103.4 | 120.7 | 133.6 | 146.5 | 146.5 | 142.2 |
| 77.5° | 17.2 | 17.2 | 25.9 | 34.5 | 43.1 | 56.0 | 81.9 | 94.8 | 99.1 | 94.8 | 81.9 |
| 80° | 0.0 | 0.0 | 8.6 | 17.2 | 34.5 | 47.4 | 73.3 | 81.9 | 90.5 | 81.9 | 64.6 |
| 82.5° | 0.0 | 0.0 | 8.6 | 21.5 | 34.5 | 43.1 | 69.0 | 86.2 | 99.1 | 90.5 | 69.0 |
| 85° | 0.0 | 0.0 | 8.6 | 17.2 | 25.9 | 30.2 | 30.2 | 21.5 | 21.5 | 12.9 | 8.6 |
| 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)