

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: P455792

Luminaire Tested: **GALN-SA7A-730-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455792
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-730-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29929 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

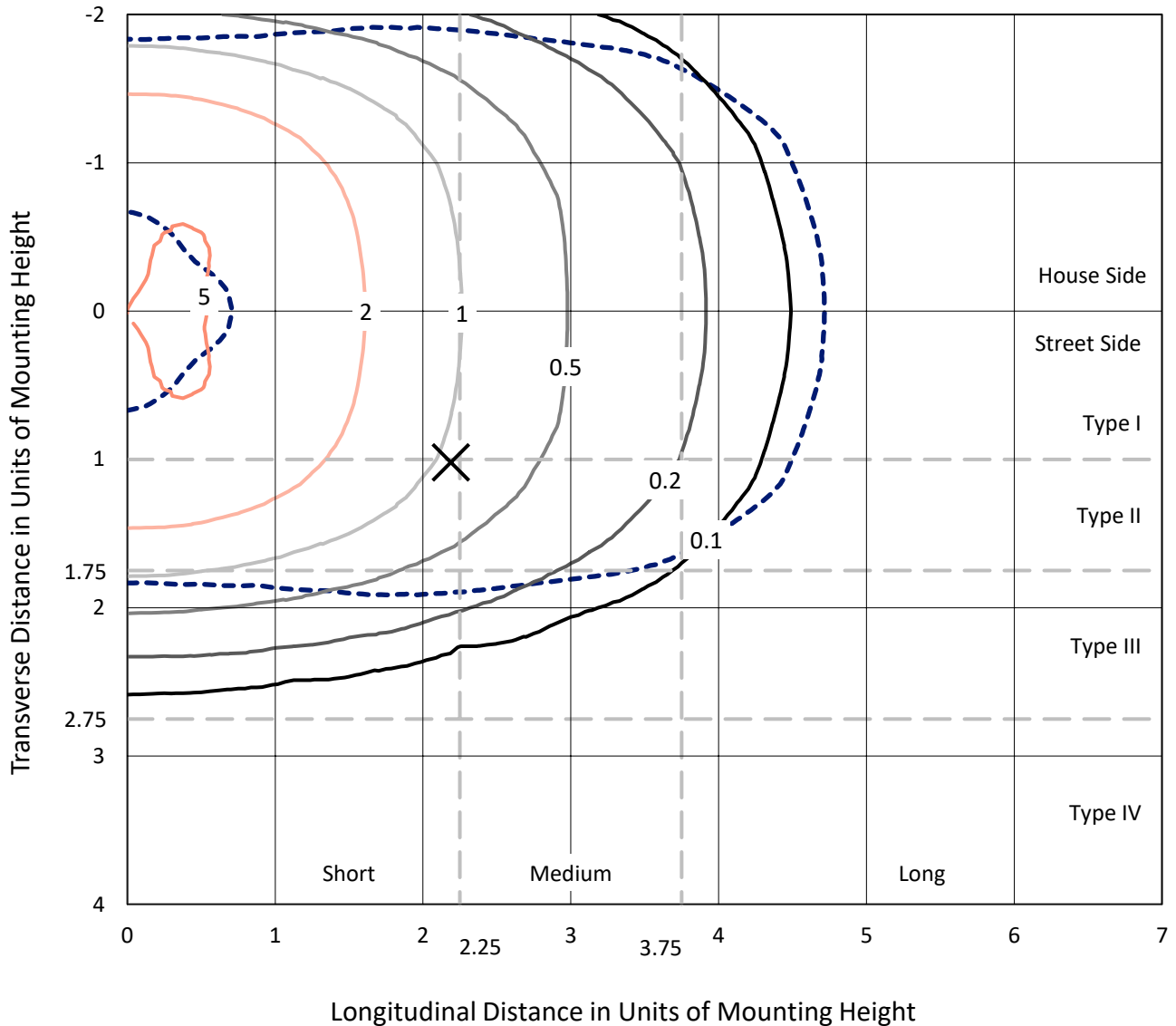
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

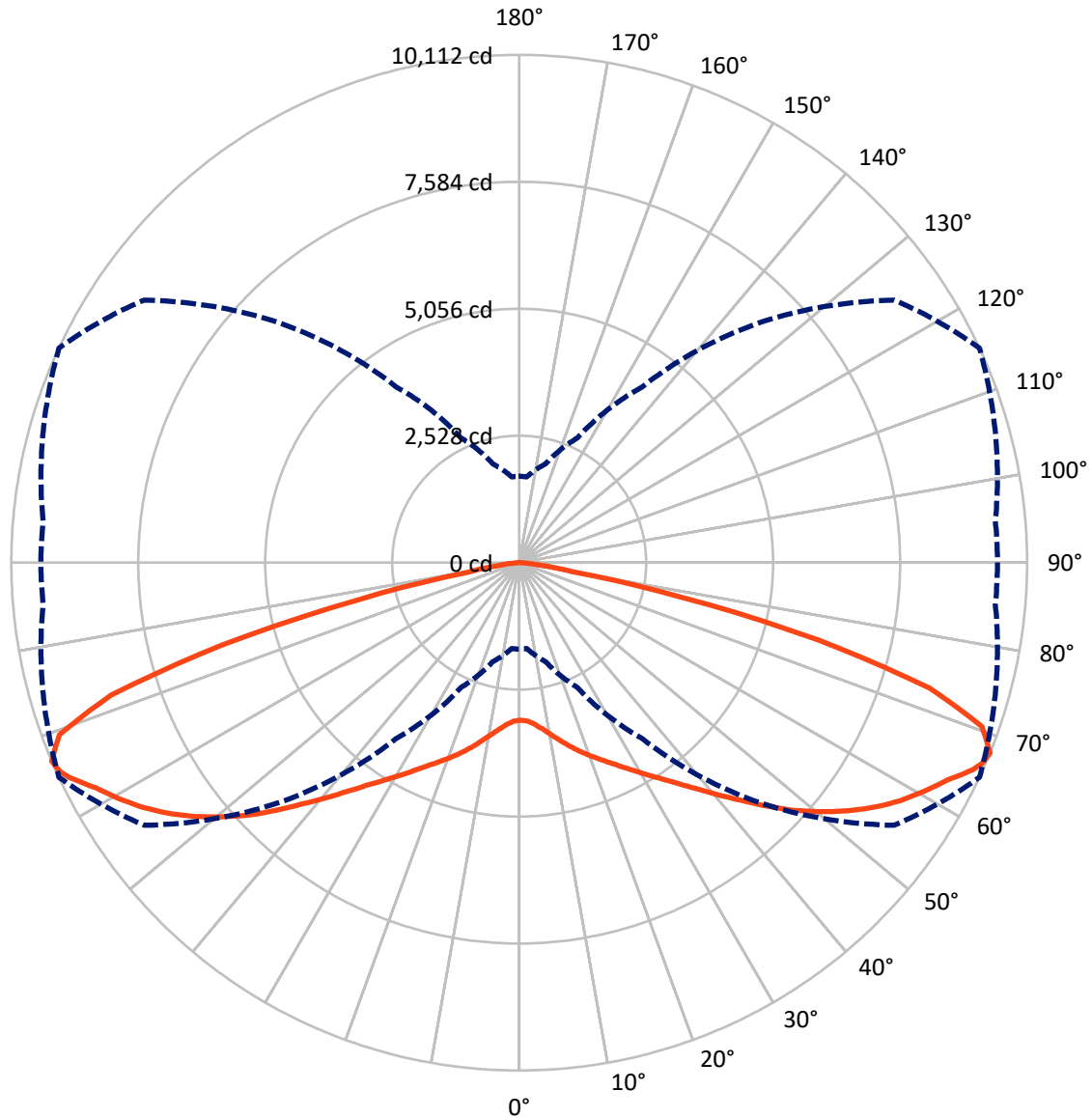
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 14964.5 | 0.0 | 14964.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 14964.5 | 0.0 | 14964.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 29929.0 | 0.0 | 29929.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 309.2 | 1.0 |
| 10°-20° | 1034.8 | 3.5 |
| 20°-30° | 2024.1 | 6.8 |
| 30°-40° | 3442.7 | 11.5 |
| 40°-50° | 5448.8 | 18.2 |
| 50°-60° | 7225.0 | 24.1 |
| 60°-70° | 6815.4 | 22.8 |
| 70°-80° | 3369.2 | 11.3 |
| 80°-90° | 259.7 | 0.9 |
| 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° | 29929.0 | 100.0 |
| 0°-180° | 29929.0 | 100.0 |

Coefficient of Utilization



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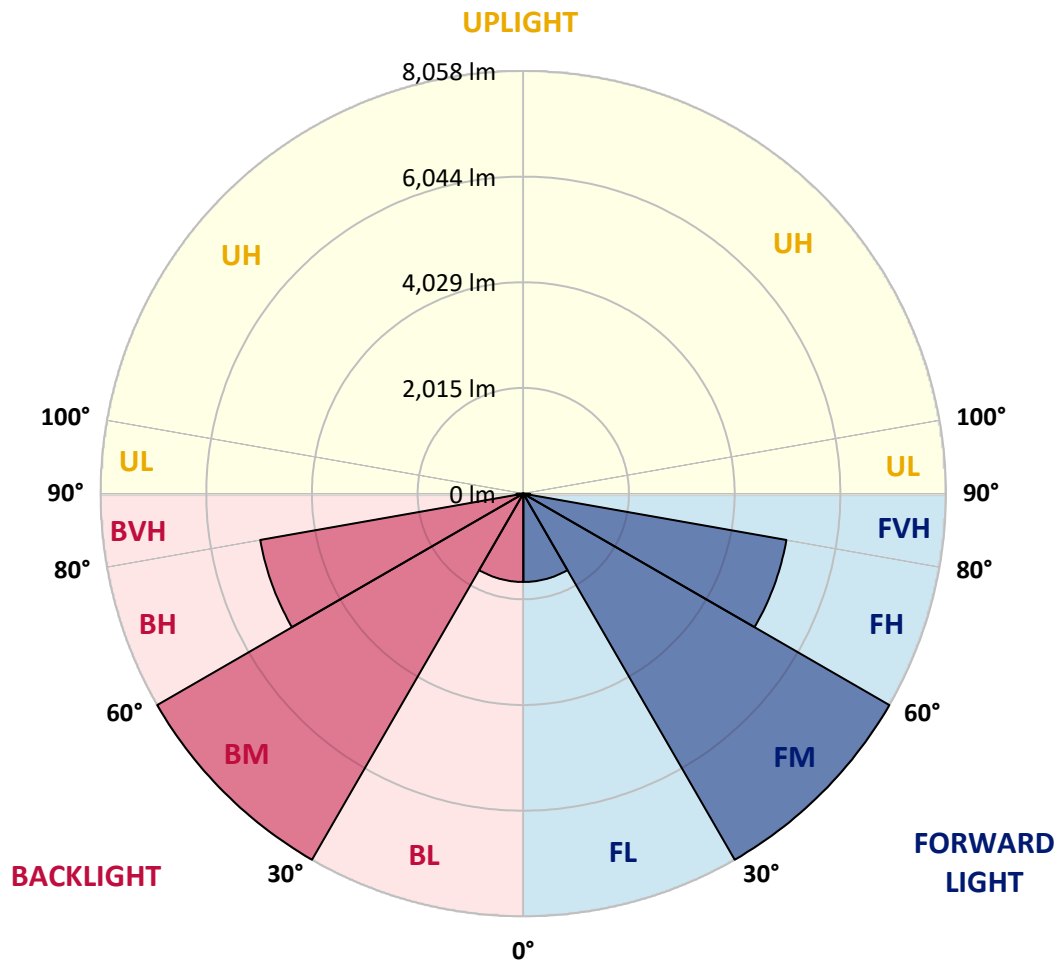
CATALOG NUMBER: GALN-SA7A-730-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1684.0 | 5.6 | | | |
| FM | (30°-60°) | 8058.3 | 26.9 | | | |
| FH | (60°-80°) | 5092.3 | 17.0 | | | G3/7500 |
| FVH | (80°-90°) | 129.8 | 0.4 | | | G2/225 |
| BL | (0°-30°) | 1684.0 | 5.6 | B3/2500 | | |
| BM | (30°-60°) | 8058.3 | 26.9 | B4/8500 | | |
| BH | (60°-80°) | 5092.3 | 17.0 | B5 | | G5 |
| BVH | (80°-90°) | 129.8 | 0.4 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------|
| 0° | 3134.8 | 3134.8 | 3134.8 | 3134.8 | 3134.8 | 3134.8 | 3134.8 | 3134.8 | 3134.8 | 3134.8 | 3134.8 |
| 2.5° | 3118.8 | 3122.0 | 3125.2 | 3130.0 | 3136.4 | 3146.0 | 3152.4 | 3157.2 | 3170.1 | 3171.7 | 3170.1 |
| 5° | 3107.5 | 3110.7 | 3118.8 | 3133.2 | 3154.0 | 3182.9 | 3205.4 | 3232.6 | 3253.5 | 3267.9 | 3264.7 |
| 7.5° | 3105.9 | 3112.4 | 3125.2 | 3155.6 | 3195.7 | 3245.4 | 3296.7 | 3343.3 | 3383.3 | 3415.4 | 3410.6 |
| 10° | 3131.6 | 3139.6 | 3160.5 | 3205.4 | 3267.9 | 3340.0 | 3412.2 | 3481.1 | 3538.9 | 3580.6 | 3595.0 |
| 12.5° | 3174.9 | 3181.3 | 3219.8 | 3287.1 | 3376.9 | 3466.7 | 3548.5 | 3633.5 | 3713.7 | 3784.2 | 3784.2 |
| 15° | 3250.2 | 3261.5 | 3309.6 | 3407.4 | 3518.0 | 3622.3 | 3705.6 | 3795.4 | 3882.0 | 3962.2 | 3986.2 |
| 17.5° | 3354.5 | 3370.5 | 3442.7 | 3567.7 | 3708.8 | 3805.1 | 3883.6 | 3957.4 | 4032.7 | 4109.7 | 4120.9 |
| 20° | 3497.2 | 3513.2 | 3609.4 | 3760.2 | 3926.9 | 4042.4 | 4095.3 | 4112.9 | 4149.8 | 4223.6 | 4233.2 |
| 22.5° | 3691.2 | 3707.2 | 3814.7 | 3984.6 | 4170.6 | 4295.7 | 4318.2 | 4276.5 | 4266.9 | 4324.6 | 4331.0 |
| 25° | 3910.9 | 3925.3 | 4048.8 | 4231.6 | 4424.0 | 4560.3 | 4553.9 | 4451.3 | 4393.5 | 4428.8 | 4438.4 |
| 27.5° | 4157.8 | 4178.7 | 4303.7 | 4492.9 | 4701.4 | 4821.7 | 4802.4 | 4653.3 | 4529.8 | 4523.4 | 4526.6 |
| 30° | 4473.7 | 4496.2 | 4614.8 | 4796.0 | 5001.2 | 5111.9 | 5071.8 | 4871.4 | 4680.6 | 4616.4 | 4616.4 |
| 32.5° | 4807.2 | 4863.3 | 4983.6 | 5172.8 | 5333.2 | 5413.3 | 5352.4 | 5111.9 | 4858.5 | 4768.7 | 4763.9 |
| 35° | 5241.8 | 5272.2 | 5390.9 | 5575.3 | 5695.6 | 5758.1 | 5641.0 | 5382.9 | 5091.0 | 4985.2 | 4970.8 |
| 37.5° | 5666.7 | 5692.3 | 5830.2 | 6006.6 | 6152.5 | 6149.3 | 5990.6 | 5705.2 | 5379.7 | 5261.0 | 5251.4 |
| 40° | 6101.2 | 6128.5 | 6285.6 | 6447.6 | 6593.5 | 6580.7 | 6388.3 | 6069.2 | 5722.8 | 5589.7 | 5615.4 |
| 42.5° | 6478.0 | 6508.5 | 6686.5 | 6917.4 | 7048.9 | 7045.7 | 6822.8 | 6463.6 | 6102.8 | 5984.2 | 6006.6 |
| 45° | 6821.2 | 6848.5 | 7055.3 | 7319.9 | 7512.3 | 7536.3 | 7292.6 | 6912.6 | 6542.2 | 6389.9 | 6396.3 |
| 47.5° | 7063.3 | 7114.6 | 7331.1 | 7634.2 | 7895.5 | 7980.5 | 7741.6 | 7369.6 | 6943.1 | 6784.3 | 6793.9 |
| 50° | 7247.7 | 7279.8 | 7515.5 | 7860.2 | 8190.6 | 8366.9 | 8174.5 | 7792.9 | 7343.9 | 7175.6 | 7198.0 |
| 52.5° | 7270.2 | 7308.7 | 7565.2 | 7962.9 | 8386.2 | 8654.0 | 8559.4 | 8206.6 | 7752.8 | 7579.6 | 7627.7 |
| 55° | 7087.4 | 7109.8 | 7416.1 | 7898.7 | 8463.2 | 8867.2 | 8891.3 | 8591.4 | 8142.5 | 8011.0 | 8043.0 |
| 57.5° | 6566.2 | 6624.0 | 7012.0 | 7598.9 | 8357.3 | 8981.1 | 9139.8 | 8941.0 | 8536.9 | 8407.0 | 8458.3 |
| 60° | 5711.6 | 5769.3 | 6159.0 | 6903.0 | 7958.1 | 8928.2 | 9345.1 | 9250.5 | 8894.5 | 8790.3 | 8817.5 |
| 62.5° | 4475.3 | 4470.5 | 4953.1 | 5865.5 | 7164.3 | 8668.4 | 9497.4 | 9548.7 | 9247.3 | 9115.8 | 9157.5 |
| 65° | 2900.7 | 2915.1 | 3381.7 | 4364.7 | 5966.5 | 8007.8 | 9531.1 | 9928.7 | 9593.6 | 9394.8 | 9425.2 |
| 66° | 2333.1 | 2376.4 | 2772.4 | 3678.4 | 5355.6 | 7574.8 | 9430.1 | 10041.0 | 9699.4 | 9458.9 | 9473.3 |
| 67.5° | 1722.1 | 1714.1 | 2039.6 | 2738.7 | 4276.5 | 6752.2 | 9114.2 | 10111.5 | 9819.7 | 9516.6 | 9523.1 |
| 70° | 982.9 | 981.3 | 1096.8 | 1504.1 | 2514.3 | 4754.3 | 7682.3 | 9773.2 | 10063.4 | 9725.1 | 9707.5 |
| 72.5° | 718.4 | 713.5 | 729.6 | 830.6 | 1226.7 | 2400.4 | 5299.5 | 8541.7 | 9938.4 | 9691.4 | 9641.7 |
| 75° | 602.9 | 599.7 | 596.5 | 609.3 | 687.9 | 1087.2 | 2812.5 | 6144.5 | 8623.5 | 9096.5 | 9045.2 |
| 77.5° | 492.3 | 492.3 | 493.9 | 490.7 | 493.9 | 572.4 | 1165.7 | 3293.5 | 5251.4 | 5862.3 | 6005.0 |
| 80° | 384.8 | 383.2 | 410.5 | 399.3 | 373.6 | 367.2 | 516.3 | 1059.9 | 1743.0 | 1733.4 | 1430.3 |
| 82.5° | 283.8 | 264.6 | 312.7 | 304.7 | 275.8 | 234.1 | 301.5 | 452.2 | 582.1 | 378.4 | 280.6 |
| 85° | 179.6 | 178.0 | 221.3 | 202.0 | 168.4 | 110.6 | 144.3 | 194.0 | 240.5 | 145.9 | 118.7 |
| 87.5° | 32.1 | 30.5 | 70.6 | 51.3 | 51.3 | 32.1 | 40.1 | 52.9 | 78.6 | 54.5 | 40.1 |
| 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)