

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: P455850

Luminaire Tested: **GALN-SA7A-750-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455850
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-750-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32863 lumens
Efficiency: N/A
Efficacy: 152.9 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

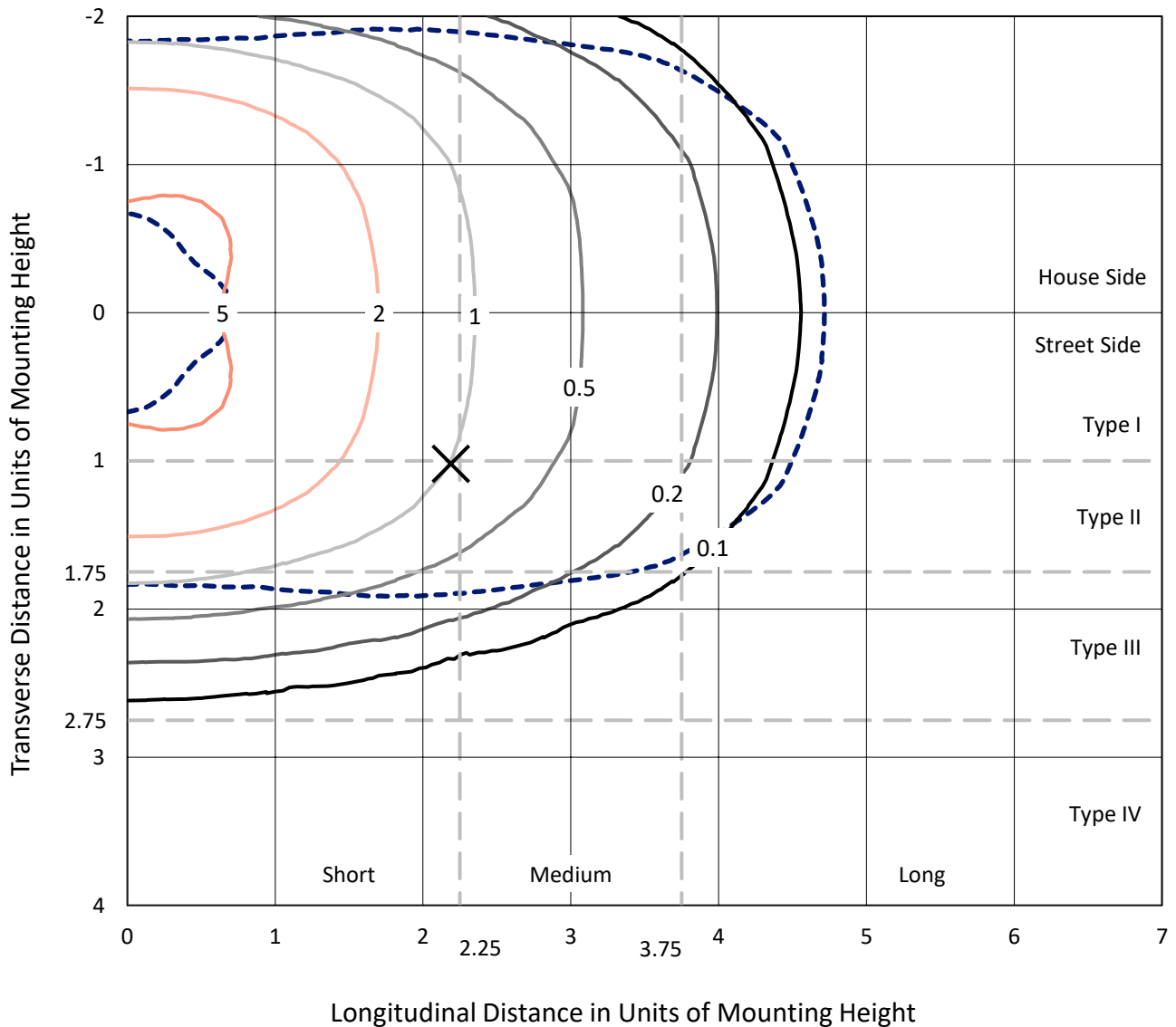
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

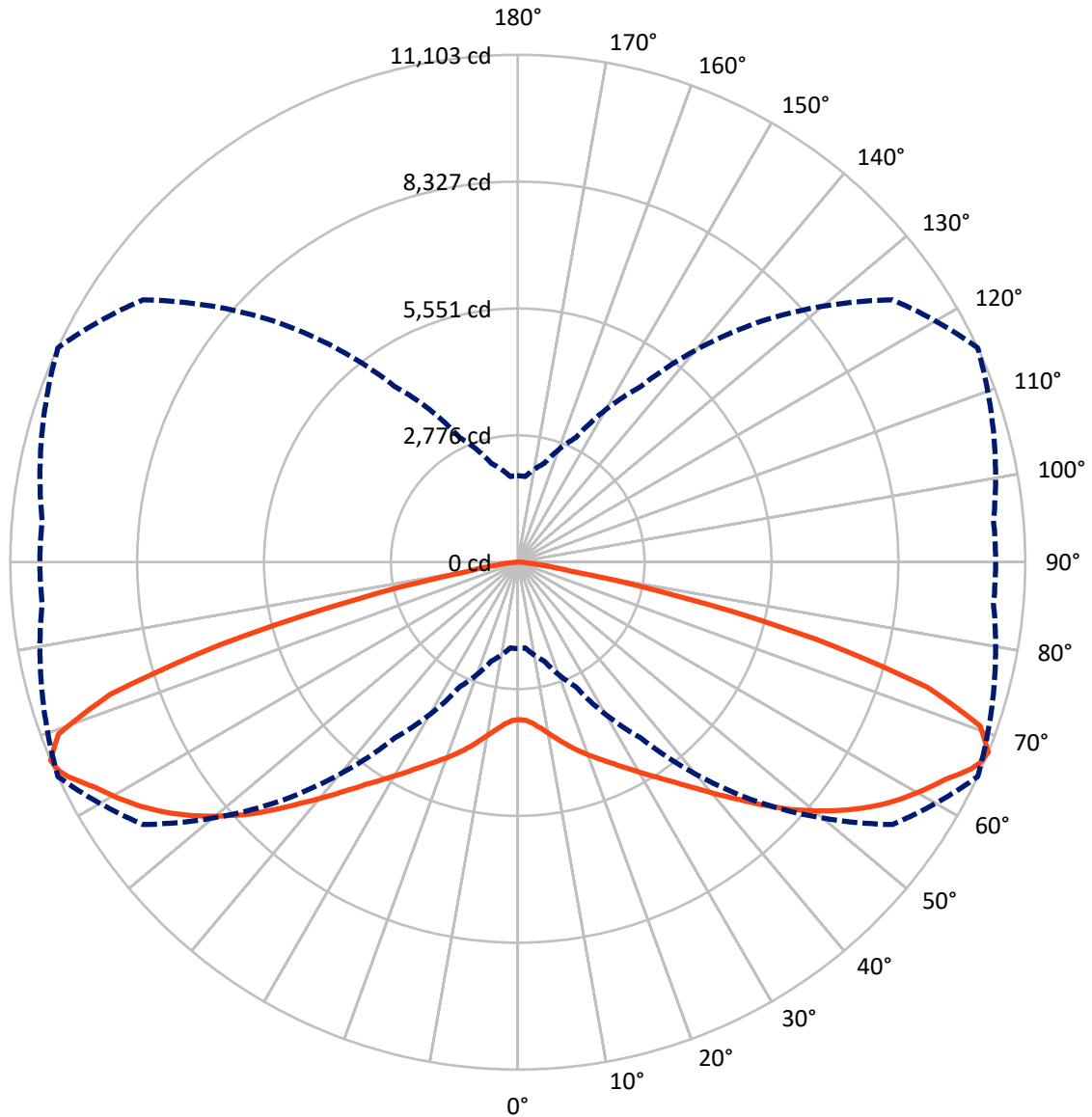
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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 | 16431.5 | 0.0 | 16431.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 16431.5 | 0.0 | 16431.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 32863.0 | 0.0 | 32863.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 339.5 | 1.0 |
| 10°-20° | 1136.2 | 3.5 |
| 20°-30° | 2222.5 | 6.8 |
| 30°-40° | 3780.2 | 11.5 |
| 40°-50° | 5983.0 | 18.2 |
| 50°-60° | 7933.3 | 24.1 |
| 60°-70° | 7483.6 | 22.8 |
| 70°-80° | 3699.5 | 11.3 |
| 80°-90° | 285.1 | 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° | 32863.0 | 100.0 |
| 0°-180° | 32863.0 | 100.0 |



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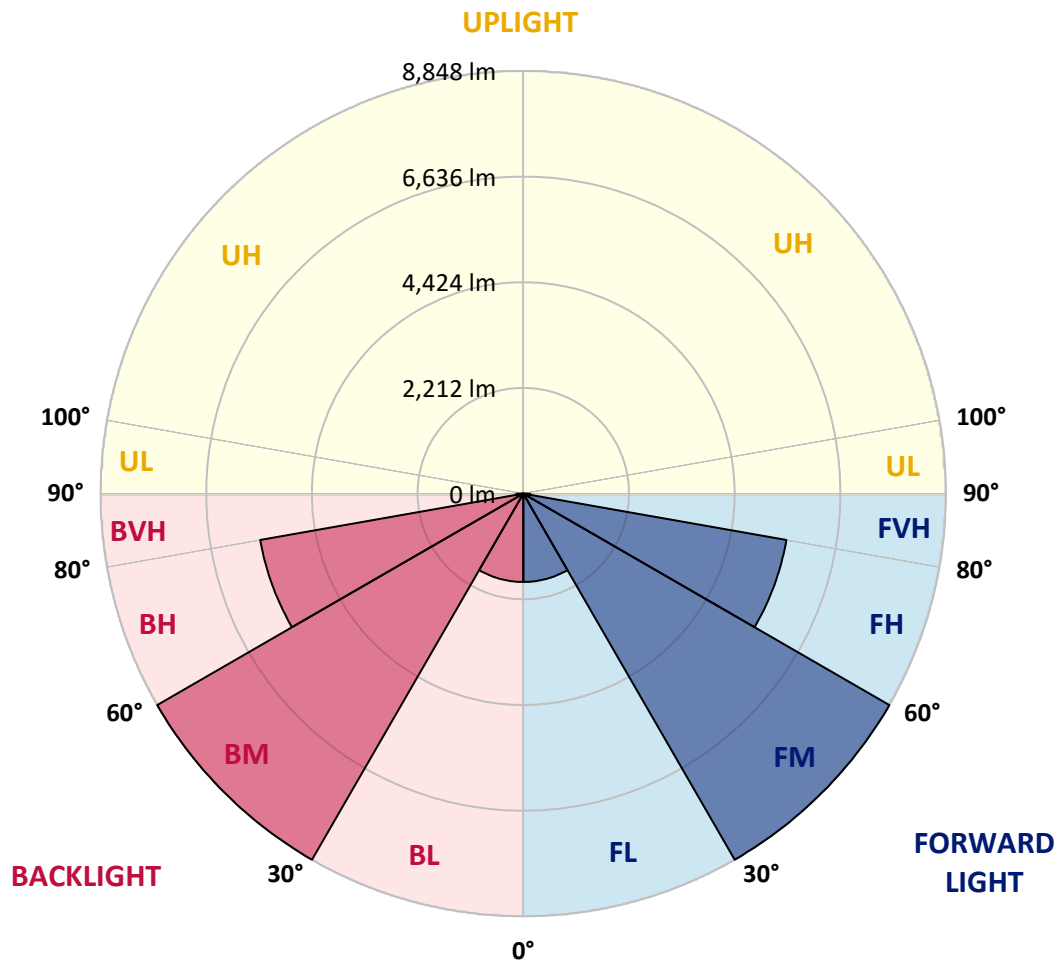
CATALOG NUMBER: GALN-SA7A-750-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1849.1 | 5.6 | | | |
| FM | (30°-60°) | 8848.3 | 26.9 | | | |
| FH | (60°-80°) | 5591.5 | 17.0 | | | G3/7500 |
| FVH | (80°-90°) | 142.6 | 0.4 | | | G2/225 |
| BL | (0°-30°) | 1849.1 | 5.6 | B3/2500 | | |
| BM | (30°-60°) | 8848.3 | 26.9 | B5 | | |
| BH | (60°-80°) | 5591.5 | 17.0 | B5 | | G5 |
| BVH | (80°-90°) | 142.6 | 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° | 3442.1 | 3442.1 | 3442.1 | 3442.1 | 3442.1 | 3442.1 | 3442.1 | 3442.1 | 3442.1 | 3442.1 | 3442.1 |
| 2.5° | 3424.5 | 3428.0 | 3431.5 | 3436.8 | 3443.9 | 3454.4 | 3461.5 | 3466.8 | 3480.8 | 3482.6 | 3480.8 |
| 5° | 3412.2 | 3415.7 | 3424.5 | 3440.3 | 3463.2 | 3494.9 | 3519.6 | 3549.5 | 3572.4 | 3588.2 | 3584.7 |
| 7.5° | 3410.4 | 3417.5 | 3431.5 | 3465.0 | 3509.0 | 3563.6 | 3619.9 | 3671.0 | 3715.0 | 3750.2 | 3744.9 |
| 10° | 3438.6 | 3447.4 | 3470.3 | 3519.6 | 3588.2 | 3667.5 | 3746.7 | 3822.4 | 3885.8 | 3931.6 | 3947.4 |
| 12.5° | 3486.1 | 3493.2 | 3535.4 | 3609.4 | 3708.0 | 3806.6 | 3896.4 | 3989.7 | 4077.7 | 4155.2 | 4155.2 |
| 15° | 3568.9 | 3581.2 | 3634.0 | 3741.4 | 3862.9 | 3977.4 | 4068.9 | 4167.5 | 4262.6 | 4350.6 | 4377.0 |
| 17.5° | 3683.3 | 3700.9 | 3780.2 | 3917.5 | 4072.4 | 4178.1 | 4264.3 | 4345.3 | 4428.1 | 4512.6 | 4524.9 |
| 20° | 3840.0 | 3857.6 | 3963.3 | 4128.8 | 4311.9 | 4438.6 | 4496.8 | 4516.1 | 4556.6 | 4637.6 | 4648.2 |
| 22.5° | 4053.1 | 4070.7 | 4188.6 | 4375.3 | 4579.5 | 4716.8 | 4741.5 | 4695.7 | 4685.1 | 4748.5 | 4755.6 |
| 25° | 4294.3 | 4310.1 | 4445.7 | 4646.4 | 4857.7 | 5007.3 | 5000.3 | 4887.6 | 4824.2 | 4863.0 | 4873.5 |
| 27.5° | 4565.4 | 4588.3 | 4725.6 | 4933.4 | 5162.3 | 5294.3 | 5273.2 | 5109.5 | 4973.9 | 4966.8 | 4970.4 |
| 30° | 4912.3 | 4936.9 | 5067.2 | 5266.2 | 5491.5 | 5613.0 | 5569.0 | 5348.9 | 5139.4 | 5069.0 | 5069.0 |
| 32.5° | 5278.5 | 5340.1 | 5472.2 | 5679.9 | 5856.0 | 5944.0 | 5877.1 | 5613.0 | 5334.8 | 5236.2 | 5230.9 |
| 35° | 5755.6 | 5789.1 | 5919.4 | 6121.8 | 6253.9 | 6322.6 | 6194.0 | 5910.6 | 5590.1 | 5473.9 | 5458.1 |
| 37.5° | 6222.2 | 6250.4 | 6401.8 | 6595.5 | 6755.7 | 6752.2 | 6577.9 | 6264.5 | 5907.0 | 5776.8 | 5766.2 |
| 40° | 6699.3 | 6729.3 | 6901.8 | 7079.7 | 7239.9 | 7225.8 | 7014.5 | 6664.1 | 6283.8 | 6137.7 | 6165.9 |
| 42.5° | 7113.1 | 7146.6 | 7342.0 | 7595.5 | 7739.9 | 7736.4 | 7491.6 | 7097.3 | 6701.1 | 6570.8 | 6595.5 |
| 45° | 7489.9 | 7519.8 | 7746.9 | 8037.5 | 8248.7 | 8275.1 | 8007.5 | 7590.2 | 7183.5 | 7016.3 | 7023.3 |
| 47.5° | 7755.8 | 7812.1 | 8049.8 | 8382.5 | 8669.5 | 8762.9 | 8500.5 | 8092.0 | 7623.7 | 7449.4 | 7460.0 |
| 50° | 7958.2 | 7993.4 | 8252.3 | 8630.8 | 8993.5 | 9187.2 | 8975.9 | 8556.9 | 8063.9 | 7879.0 | 7903.6 |
| 52.5° | 7982.9 | 8025.1 | 8306.8 | 8743.5 | 9208.3 | 9502.3 | 9398.5 | 9011.1 | 8512.8 | 8322.7 | 8375.5 |
| 55° | 7782.2 | 7806.8 | 8143.1 | 8673.1 | 9292.8 | 9736.5 | 9762.9 | 9433.7 | 8940.7 | 8796.3 | 8831.5 |
| 57.5° | 7209.9 | 7273.3 | 7699.4 | 8343.8 | 9176.6 | 9861.5 | 10035.8 | 9817.5 | 9373.8 | 9231.2 | 9287.5 |
| 60° | 6271.5 | 6334.9 | 6762.7 | 7579.7 | 8738.2 | 9803.4 | 10261.2 | 10157.3 | 9766.4 | 9652.0 | 9681.9 |
| 62.5° | 4914.0 | 4908.7 | 5438.7 | 6440.5 | 7866.7 | 9518.2 | 10428.4 | 10484.8 | 10153.8 | 10009.4 | 10055.2 |
| 65° | 3185.1 | 3200.9 | 3713.3 | 4792.5 | 6551.5 | 8792.8 | 10465.4 | 10902.1 | 10534.1 | 10315.8 | 10349.2 |
| 66° | 2561.8 | 2609.3 | 3044.2 | 4039.0 | 5880.6 | 8317.4 | 10354.5 | 11025.3 | 10650.3 | 10386.2 | 10402.0 |
| 67.5° | 1891.0 | 1882.2 | 2239.6 | 3007.2 | 4695.7 | 7414.2 | 10007.6 | 11102.8 | 10782.3 | 10449.6 | 10456.6 |
| 70° | 1079.3 | 1077.5 | 1204.3 | 1651.5 | 2760.7 | 5220.4 | 8435.4 | 10731.3 | 11050.0 | 10678.5 | 10659.1 |
| 72.5° | 788.8 | 783.5 | 801.1 | 912.0 | 1346.9 | 2635.7 | 5819.0 | 9379.1 | 10912.6 | 10641.5 | 10586.9 |
| 75° | 662.0 | 658.5 | 655.0 | 669.1 | 755.3 | 1193.7 | 3088.2 | 6746.9 | 9468.9 | 9988.3 | 9931.9 |
| 77.5° | 540.5 | 540.5 | 542.3 | 538.8 | 542.3 | 628.6 | 1280.0 | 3616.4 | 5766.2 | 6437.0 | 6593.7 |
| 80° | 422.6 | 420.8 | 450.7 | 438.4 | 410.2 | 403.2 | 566.9 | 1163.8 | 1913.8 | 1903.3 | 1570.5 |
| 82.5° | 311.6 | 290.5 | 343.3 | 334.5 | 302.8 | 257.1 | 331.0 | 496.5 | 639.1 | 415.5 | 308.1 |
| 85° | 197.2 | 195.4 | 243.0 | 221.8 | 184.9 | 121.5 | 158.5 | 213.0 | 264.1 | 160.2 | 130.3 |
| 87.5° | 35.2 | 33.5 | 77.5 | 56.3 | 56.3 | 35.2 | 44.0 | 58.1 | 86.3 | 59.9 | 44.0 |
| 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)