

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: P459341

Luminaire Tested: **GALN-SA8A-735-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459341
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-735-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34340 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

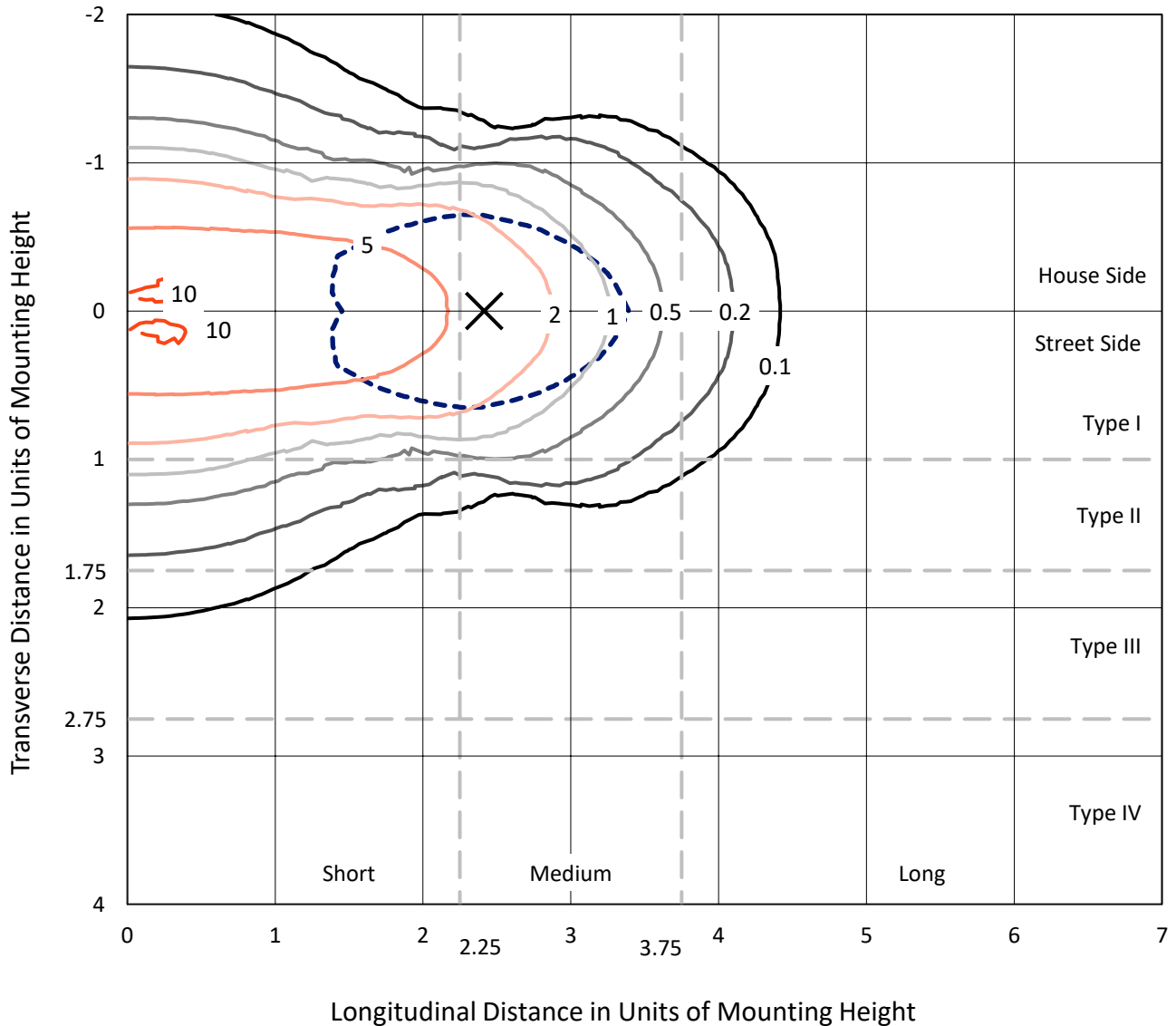
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

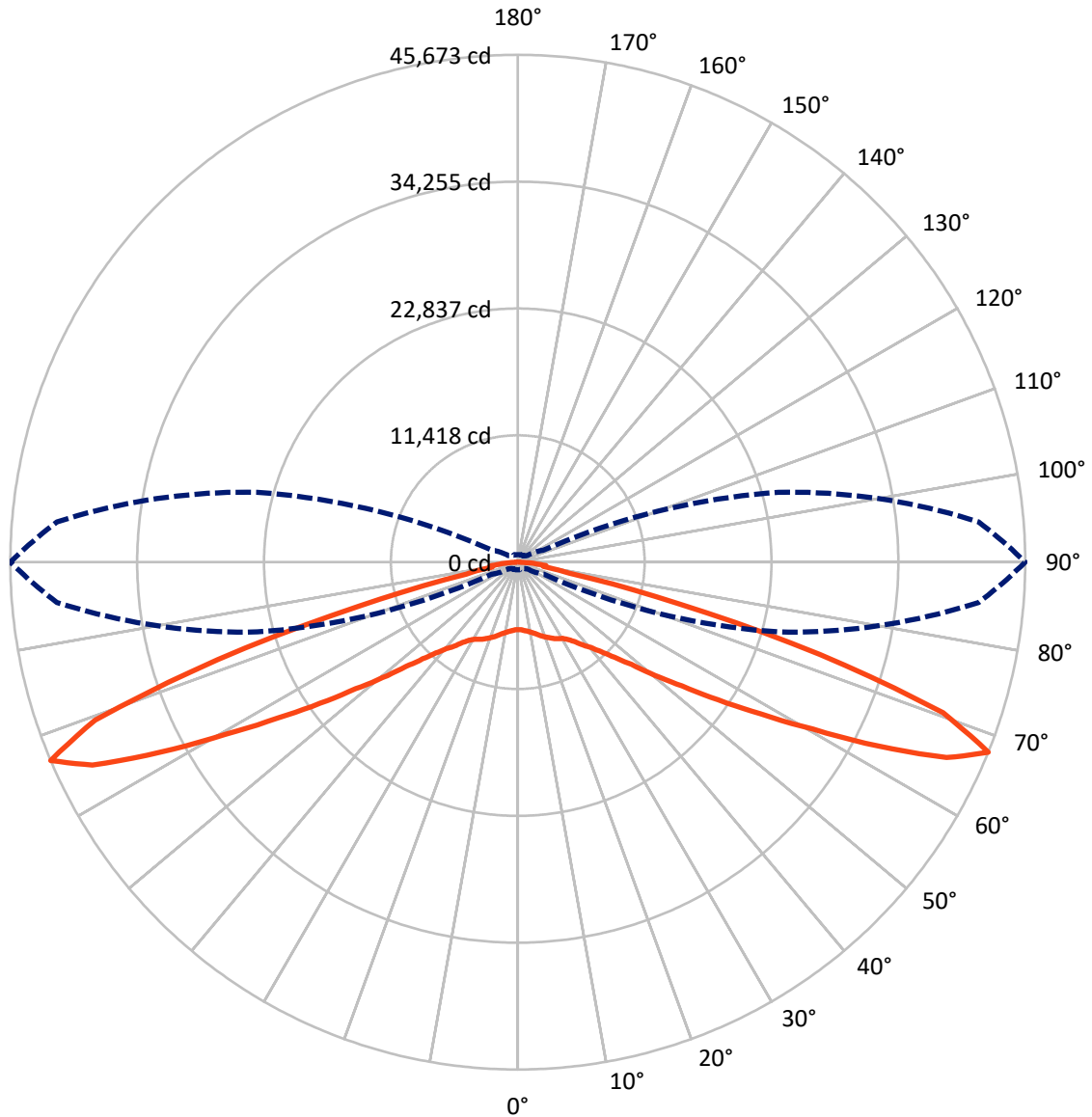
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 17170.0 | 0.0 | 17170.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 17170.0 | 0.0 | 17170.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 34340.0 | 0.0 | 34340.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 606.1 | 1.8 |
| 10°-20° | 1939.2 | 5.6 |
| 20°-30° | 3245.7 | 9.5 |
| 30°-40° | 4397.1 | 12.8 |
| 40°-50° | 5569.6 | 16.2 |
| 50°-60° | 6957.9 | 20.3 |
| 60°-70° | 8178.7 | 23.8 |
| 70°-80° | 3128.7 | 9.1 |
| 80°-90° | 317.0 | 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° | 34340.0 | 100.0 |
| 0°-180° | 34340.0 | 100.0 |

Coefficient of Utilization



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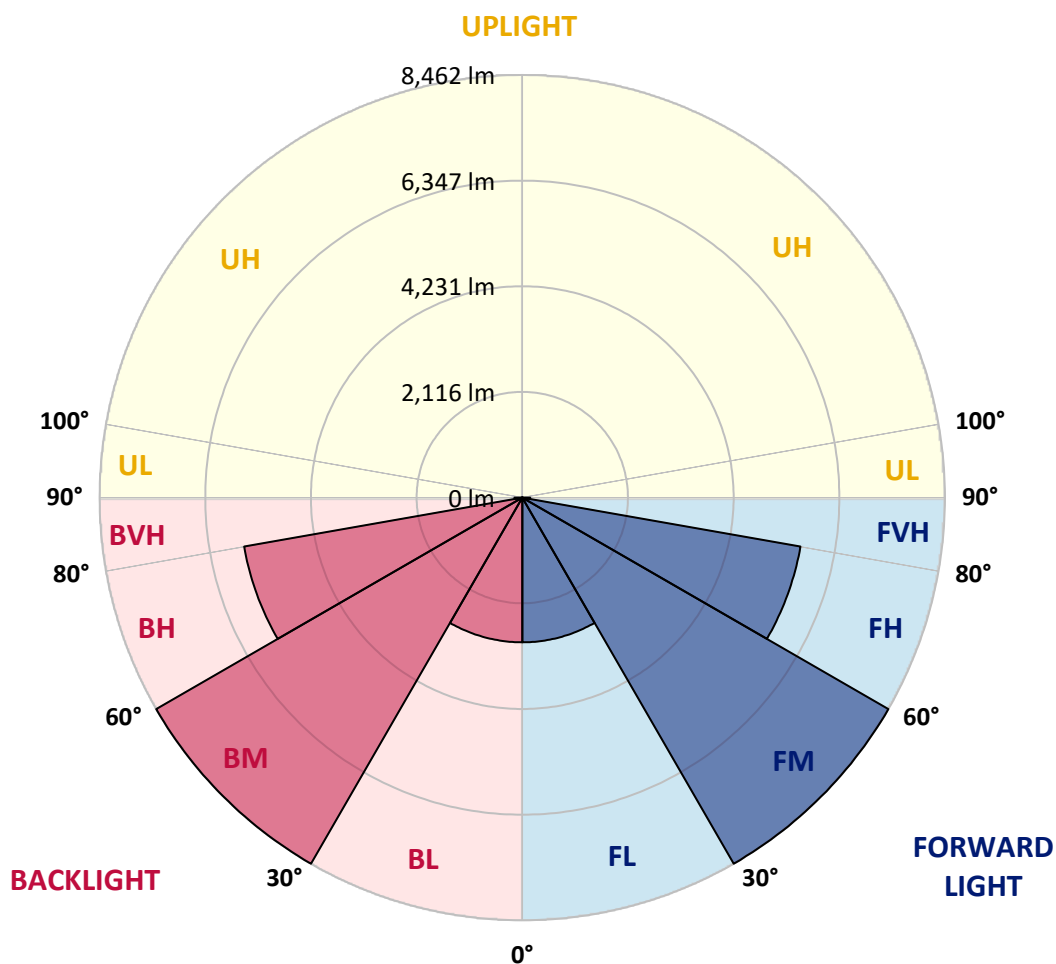
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2895.5 | 8.4 | | | |
| FM | (30°-60°) | 8462.3 | 24.6 | | | |
| FH | (60°-80°) | 5653.7 | 16.5 | | | G3/7500 |
| FVH | (80°-90°) | 158.5 | 0.5 | | | G2/225 |
| BL | (0°-30°) | 2895.5 | 8.4 | B4/5000 | | |
| BM | (30°-60°) | 8462.3 | 24.6 | B4/8500 | | |
| BH | (60°-80°) | 5653.7 | 16.5 | B5 | | G5 |
| BVH | (80°-90°) | 158.5 | 0.5 | | | 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 I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 6079.2 | 6079.2 | 6079.2 | 6079.2 | 6079.2 | 6079.2 | 6079.2 | 6079.2 | 6079.2 | 6079.2 | 6079.2 |
| 2.5° | 6157.2 | 6153.4 | 6155.3 | 6153.4 | 6159.1 | 6155.3 | 6132.5 | 6113.5 | 6098.3 | 6100.2 | 6094.5 |
| 5° | 6288.4 | 6290.3 | 6292.2 | 6282.7 | 6296.0 | 6288.4 | 6252.3 | 6221.9 | 6191.4 | 6180.0 | 6176.2 |
| 7.5° | 6396.8 | 6406.3 | 6412.0 | 6421.5 | 6444.3 | 6444.3 | 6425.3 | 6381.6 | 6315.0 | 6277.0 | 6275.1 |
| 10° | 6505.2 | 6512.8 | 6529.9 | 6560.3 | 6598.4 | 6634.5 | 6626.9 | 6567.9 | 6482.4 | 6417.7 | 6402.5 |
| 12.5° | 6543.2 | 6552.7 | 6609.8 | 6697.3 | 6782.8 | 6853.2 | 6853.2 | 6805.6 | 6695.4 | 6596.5 | 6567.9 |
| 15° | 6410.1 | 6427.2 | 6529.9 | 6716.3 | 6940.7 | 7094.7 | 7128.9 | 7062.3 | 6944.5 | 6792.3 | 6758.1 |
| 17.5° | 6145.8 | 6187.6 | 6337.9 | 6613.6 | 6986.3 | 7305.7 | 7404.6 | 7372.3 | 7220.2 | 7026.2 | 6986.3 |
| 20° | 5862.5 | 5908.1 | 6067.8 | 6432.9 | 6948.3 | 7429.3 | 7716.5 | 7724.1 | 7535.8 | 7254.4 | 7195.5 |
| 22.5° | 5550.6 | 5584.8 | 5790.2 | 6218.1 | 6834.2 | 7457.9 | 7984.6 | 8115.8 | 7861.0 | 7482.6 | 7398.9 |
| 25° | 5200.7 | 5238.8 | 5453.6 | 5915.7 | 6619.3 | 7425.5 | 8229.9 | 8518.9 | 8201.4 | 7726.0 | 7619.5 |
| 27.5° | 4866.1 | 4881.3 | 5111.4 | 5581.0 | 6336.0 | 7341.9 | 8410.5 | 8889.7 | 8577.9 | 7927.6 | 7792.5 |
| 30° | 4544.7 | 4580.8 | 4784.3 | 5248.3 | 6010.8 | 7178.3 | 8566.5 | 9311.9 | 8982.9 | 8138.6 | 7965.6 |
| 32.5° | 4204.3 | 4248.1 | 4468.6 | 4938.3 | 5685.6 | 6933.0 | 8661.6 | 9774.0 | 9547.7 | 8480.9 | 8296.5 |
| 35° | 3877.3 | 3905.8 | 4128.3 | 4584.6 | 5368.1 | 6647.8 | 8678.7 | 10295.0 | 10276.0 | 9000.0 | 8754.7 |
| 37.5° | 3542.6 | 3584.4 | 3808.8 | 4246.2 | 5031.5 | 6345.5 | 8593.1 | 10848.3 | 11154.5 | 9720.7 | 9456.4 |
| 40° | 3221.2 | 3257.4 | 3477.9 | 3919.1 | 4649.3 | 5976.6 | 8389.6 | 11354.1 | 12179.4 | 10462.3 | 10087.7 |
| 42.5° | 2871.3 | 2880.8 | 3122.3 | 3571.1 | 4274.7 | 5548.7 | 8096.8 | 11804.8 | 13322.2 | 11456.8 | 10990.9 |
| 45° | 2473.9 | 2498.6 | 2723.0 | 3164.2 | 3844.9 | 5069.5 | 7699.4 | 12177.5 | 14771.2 | 12835.4 | 12200.3 |
| 47.5° | 2076.5 | 2097.4 | 2302.8 | 2738.2 | 3375.2 | 4520.0 | 7087.1 | 12504.6 | 16258.2 | 14586.8 | 13753.9 |
| 50° | 1688.6 | 1700.0 | 1867.3 | 2253.3 | 2846.6 | 3941.9 | 6328.4 | 12609.2 | 17939.2 | 17066.4 | 16003.4 |
| 52.5° | 1334.9 | 1352.0 | 1479.4 | 1781.8 | 2281.9 | 3259.3 | 5508.8 | 12350.6 | 19901.6 | 20006.2 | 18507.8 |
| 55° | 1082.0 | 1087.7 | 1182.8 | 1405.2 | 1783.7 | 2544.3 | 4520.0 | 11629.9 | 22012.3 | 23773.2 | 21862.1 |
| 57.5° | 931.8 | 935.6 | 988.8 | 1112.4 | 1372.9 | 1918.7 | 3506.5 | 10266.5 | 23908.2 | 28186.6 | 25729.8 |
| 60° | 846.2 | 848.1 | 878.5 | 950.8 | 1087.7 | 1471.8 | 2511.9 | 8342.1 | 25779.3 | 33098.3 | 30537.0 |
| 62.5° | 792.9 | 792.9 | 813.9 | 853.8 | 920.3 | 1129.5 | 1819.8 | 6018.4 | 27060.9 | 38082.3 | 36462.2 |
| 65° | 741.6 | 741.6 | 756.8 | 785.3 | 821.5 | 924.2 | 1344.4 | 3924.8 | 27028.6 | 41712.4 | 42421.6 |
| 67.5° | 682.7 | 682.7 | 694.1 | 722.6 | 743.5 | 794.8 | 1038.2 | 2570.9 | 24279.0 | 41632.5 | 45673.3 |
| 70° | 612.3 | 612.3 | 627.5 | 652.2 | 669.3 | 701.7 | 819.6 | 1758.9 | 17836.5 | 35547.5 | 40619.0 |
| 72.5° | 541.9 | 543.8 | 553.4 | 578.1 | 591.4 | 610.4 | 680.8 | 1232.2 | 10941.5 | 24204.8 | 28401.5 |
| 75° | 464.0 | 467.8 | 477.3 | 502.0 | 513.4 | 521.0 | 574.3 | 878.5 | 5535.4 | 13050.3 | 14858.7 |
| 77.5° | 374.6 | 382.2 | 387.9 | 414.5 | 422.1 | 433.6 | 473.5 | 635.1 | 2430.2 | 4689.2 | 4731.1 |
| 80° | 273.8 | 283.3 | 300.4 | 325.2 | 330.9 | 338.5 | 361.3 | 450.7 | 1101.0 | 2141.1 | 2325.6 |
| 82.5° | 201.6 | 214.9 | 194.0 | 226.3 | 226.3 | 216.8 | 254.8 | 302.3 | 505.8 | 2120.2 | 2536.7 |
| 85° | 110.3 | 112.2 | 100.8 | 116.0 | 123.6 | 121.7 | 135.0 | 148.3 | 245.3 | 1414.8 | 1458.5 |
| 87.5° | 26.6 | 28.5 | 30.4 | 36.1 | 43.7 | 43.7 | 47.5 | 41.8 | 79.9 | 458.3 | 262.4 |
| 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)