

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: P534045

Luminaire Tested: **GALN-SA9C-735-U-5MQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534045  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-735-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35632 lumens  
Efficiency: N/A  
Efficacy: 74.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

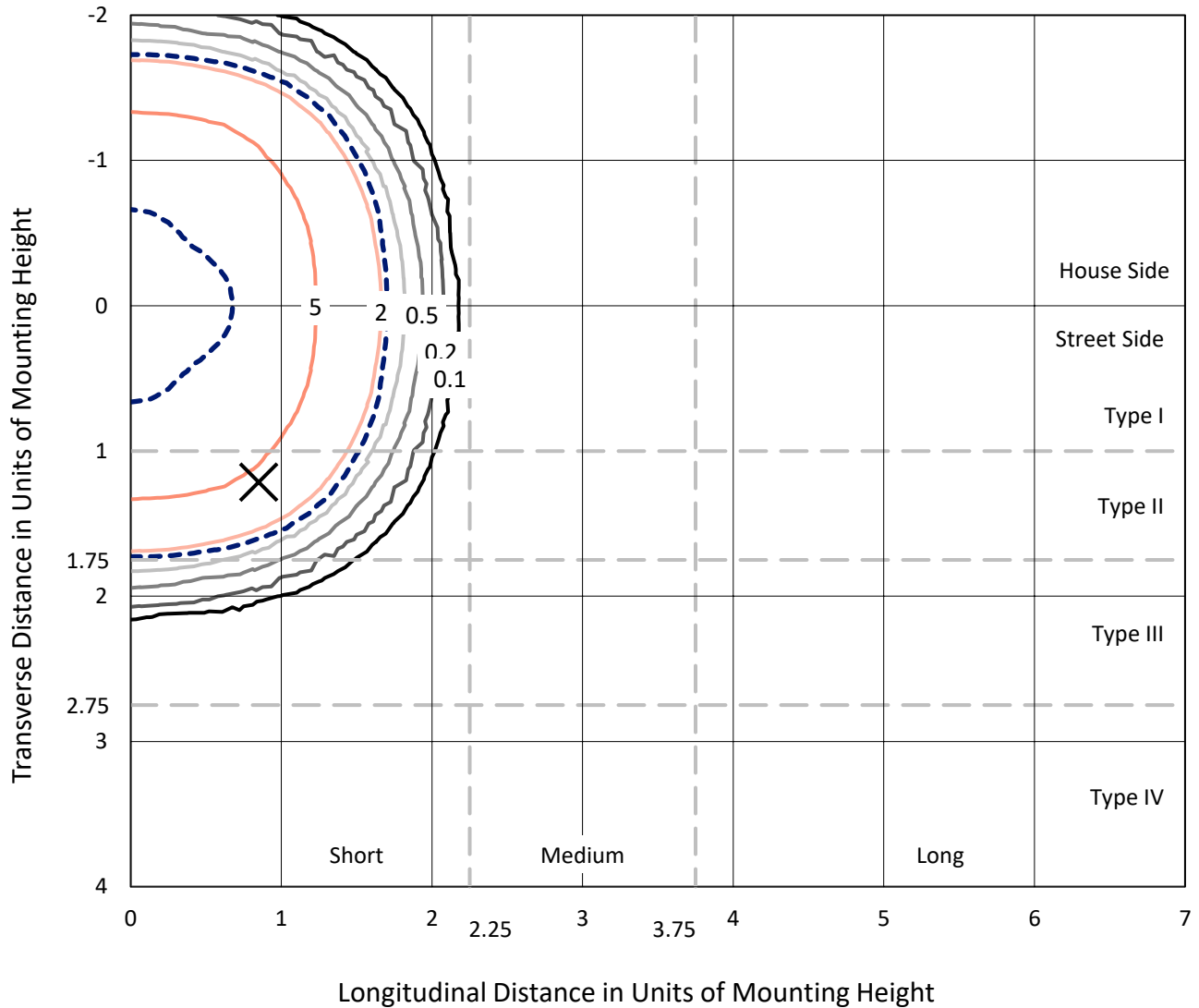
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

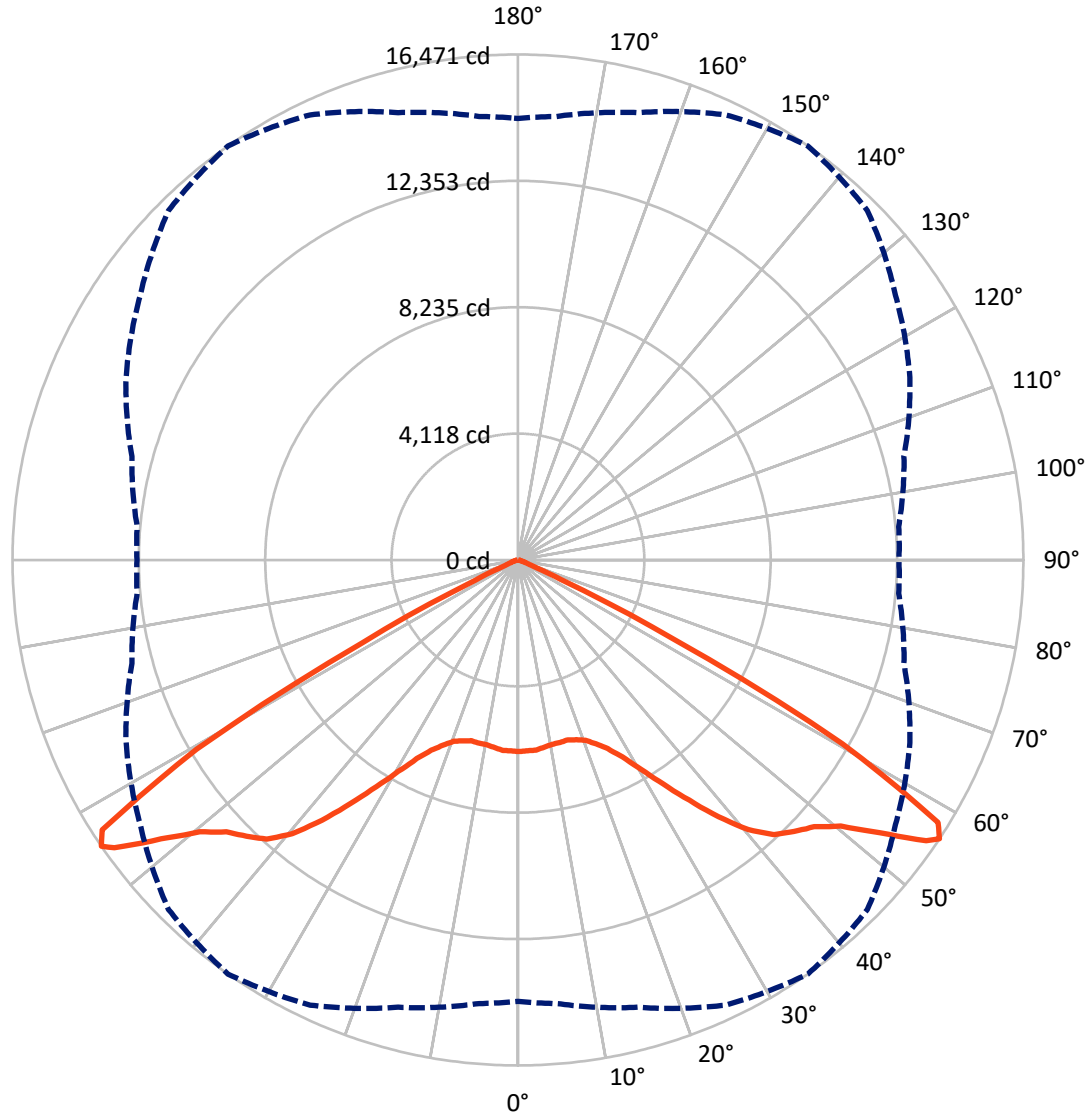
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 17816.0  | 0.0    | 17816.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 17816.0  | 0.0    | 17816.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 35632.0  | 0.0    | 35632.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 586.8   | 1.6       |
| 10°-20°   | 1713.1  | 4.8       |
| 20°-30°   | 3102.3  | 8.7       |
| 30°-40°   | 5752.7  | 16.1      |
| 40°-50°   | 9442.7  | 26.5      |
| 50°-60°   | 12165.0 | 34.1      |
| 60°-70°   | 2681.0  | 7.5       |
| 70°-80°   | 155.5   | 0.4       |
| 80°-90°   | 32.7    | 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°    | 35632.0 | 100.0     |
| 0°-180°   | 35632.0 | 100.0     |

**Coefficient of Utilization**

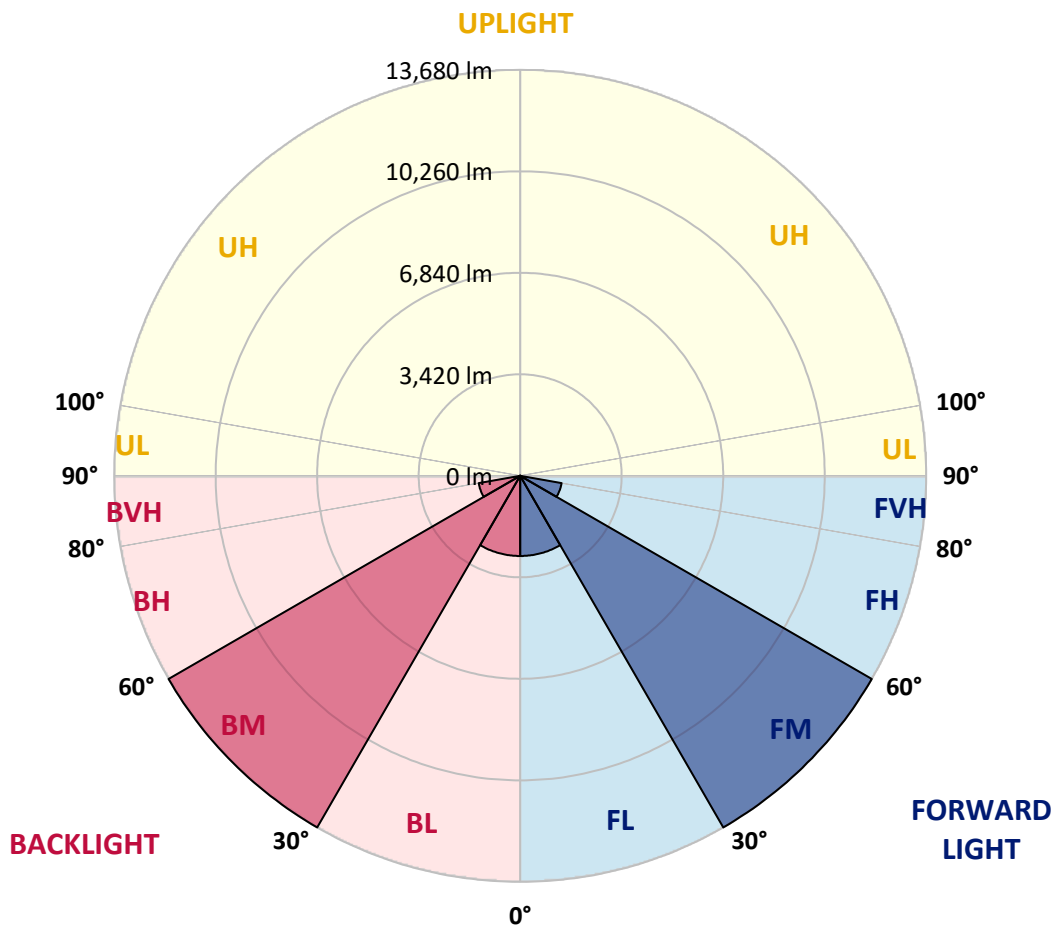


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2701.1  | 7.6       |                         |      |         |
| FM (30°-60°)   | 13680.2 | 38.4      |                         |      |         |
| FH (60°-80°)   | 1418.3  | 4.0       |                         |      | G1/1800 |
| FVH (80°-90°)  | 16.4    | 0.0       |                         |      | G1/100  |
| BL (0°-30°)    | 2701.1  | 7.6       | B4/5000                 |      |         |
| BM (30°-60°)   | 13680.2 | 38.4      | B5                      |      |         |
| BH (60°-80°)   | 1418.3  | 4.0       | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 16.4    | 0.0       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6243.5  | 6243.5  | 6243.5  | 6243.5  | 6243.5  | 6243.5  | 6243.5  | 6243.5  | 6243.5  | 6243.5  | 6243.5  |
| 2.5°  | 6256.4  | 6256.4  | 6262.9  | 6269.3  | 6224.1  | 6204.8  | 6211.2  | 6198.3  | 6191.8  | 6211.2  | 6211.2  |
| 5°    | 6237.0  | 6237.0  | 6217.7  | 6224.1  | 6224.1  | 6166.0  | 6166.0  | 6178.9  | 6178.9  | 6140.2  | 6127.3  |
| 7.5°  | 6185.4  | 6172.5  | 6146.6  | 6178.9  | 6159.6  | 6159.6  | 6114.4  | 6082.1  | 6069.2  | 6095.0  | 6069.2  |
| 10°   | 6075.6  | 6082.1  | 6107.9  | 6120.8  | 6107.9  | 6146.6  | 6069.2  | 6024.0  | 5978.8  | 5959.4  | 5959.4  |
| 12.5° | 6024.0  | 6062.7  | 6024.0  | 6056.3  | 6101.4  | 6069.2  | 6024.0  | 5991.7  | 5927.1  | 5901.3  | 5901.3  |
| 15°   | 6017.5  | 6043.3  | 6056.3  | 6101.4  | 6082.1  | 6095.0  | 6004.6  | 5965.9  | 5869.0  | 5823.8  | 5804.4  |
| 17.5° | 6011.1  | 6043.3  | 6062.7  | 6146.6  | 6159.6  | 6166.0  | 6095.0  | 5978.8  | 5894.8  | 5849.6  | 5804.4  |
| 20°   | 6082.1  | 6095.0  | 6133.7  | 6217.7  | 6269.3  | 6359.7  | 6230.6  | 6107.9  | 5927.1  | 5875.5  | 5856.1  |
| 22.5° | 6172.5  | 6237.0  | 6275.8  | 6366.2  | 6501.8  | 6579.2  | 6411.4  | 6256.4  | 6069.2  | 6004.6  | 5927.1  |
| 25°   | 6463.0  | 6450.1  | 6514.7  | 6701.9  | 6811.7  | 6869.8  | 6734.2  | 6508.2  | 6262.9  | 6185.4  | 6198.3  |
| 27.5° | 6824.6  | 6837.5  | 6895.6  | 7102.2  | 7263.6  | 7354.0  | 7192.6  | 6895.6  | 6656.7  | 6527.6  | 6514.7  |
| 30°   | 7295.9  | 7283.0  | 7347.6  | 7625.2  | 7915.7  | 8051.3  | 7767.2  | 7418.6  | 7186.2  | 7018.3  | 7057.0  |
| 32.5° | 7793.1  | 7799.5  | 7980.3  | 8232.1  | 8703.4  | 8968.2  | 8509.7  | 8083.6  | 7735.0  | 7618.7  | 7560.6  |
| 35°   | 8529.1  | 8561.4  | 8703.4  | 9090.8  | 9613.8  | 9956.0  | 9452.4  | 8942.3  | 8542.0  | 8329.0  | 8354.8  |
| 37.5° | 9439.5  | 9407.2  | 9646.1  | 10065.8 | 10614.6 | 10866.4 | 10440.3 | 9859.2  | 9452.4  | 9310.4  | 9400.8  |
| 40°   | 10408.0 | 10440.3 | 10562.9 | 10943.9 | 11557.2 | 11725.1 | 11092.4 | 10776.0 | 10420.9 | 10349.9 | 10459.6 |
| 42.5° | 11376.5 | 11357.1 | 11447.5 | 11789.7 | 12235.2 | 12119.0 | 11744.5 | 11557.2 | 11305.4 | 11163.4 | 11311.9 |
| 45°   | 12086.7 | 12054.4 | 12222.3 | 12454.7 | 12616.1 | 12396.6 | 12228.7 | 12164.2 | 12035.0 | 11880.1 | 12015.7 |
| 47.5° | 12777.5 | 12751.7 | 12913.1 | 12977.7 | 12990.6 | 12700.1 | 12732.3 | 12848.6 | 12525.7 | 12202.9 | 12357.9 |
| 50°   | 13365.1 | 13319.9 | 13520.0 | 13662.1 | 13629.8 | 13164.9 | 13281.1 | 13164.9 | 12661.3 | 12280.4 | 12222.3 |
| 52.5° | 14346.5 | 14365.8 | 14578.9 | 14837.2 | 14759.7 | 14372.3 | 14204.4 | 13675.0 | 13029.3 | 12687.1 | 12487.0 |
| 55°   | 14966.3 | 14869.5 | 15237.5 | 16057.5 | 16147.9 | 15747.5 | 15005.0 | 14223.8 | 13255.3 | 12835.6 | 12784.0 |
| 56°   | 14385.2 | 14507.9 | 15089.0 | 16005.8 | 16470.7 | 16102.7 | 15024.4 | 14088.2 | 13022.9 | 12454.7 | 12416.0 |
| 57.5° | 12906.7 | 12842.1 | 13629.8 | 14882.4 | 16147.9 | 15992.9 | 14495.0 | 13119.7 | 11880.1 | 11240.9 | 11163.4 |
| 60°   | 8032.0  | 8219.2  | 8910.1  | 10459.6 | 12151.2 | 12228.7 | 10743.7 | 9562.2  | 8115.9  | 7547.7  | 7683.3  |
| 62.5° | 3144.3  | 2982.9  | 3415.5  | 4571.2  | 5733.4  | 5991.7  | 5430.0  | 4513.1  | 3706.1  | 3144.3  | 3105.6  |
| 65°   | 729.6   | 710.2   | 800.6   | 1104.1  | 1543.1  | 1788.5  | 1698.1  | 1220.3  | 897.5   | 852.3   | 787.7   |
| 67.5° | 413.2   | 413.2   | 393.9   | 393.9   | 432.6   | 458.4   | 439.0   | 432.6   | 452.0   | 471.3   | 464.9   |
| 70°   | 290.5   | 284.1   | 271.2   | 277.6   | 264.7   | 264.7   | 284.1   | 316.4   | 342.2   | 342.2   | 348.7   |
| 72.5° | 174.3   | 174.3   | 174.3   | 193.7   | 193.7   | 193.7   | 213.1   | 238.9   | 245.3   | 238.9   | 232.4   |
| 75°   | 77.5    | 77.5    | 90.4    | 109.8   | 122.7   | 129.1   | 148.5   | 161.4   | 174.3   | 161.4   | 148.5   |
| 77.5° | 19.4    | 19.4    | 32.3    | 45.2    | 58.1    | 71.0    | 96.8    | 116.2   | 122.7   | 116.2   | 96.8    |
| 80°   | 6.5     | 6.5     | 12.9    | 32.3    | 58.1    | 71.0    | 96.8    | 103.3   | 109.8   | 96.8    | 77.5    |
| 82.5° | 6.5     | 6.5     | 12.9    | 32.3    | 45.2    | 58.1    | 77.5    | 90.4    | 96.8    | 83.9    | 77.5    |
| 85°   | 0.0     | 6.5     | 12.9    | 25.8    | 38.7    | 51.7    | 51.7    | 38.7    | 32.3    | 19.4    | 25.8    |
| 87.5° | 0.0     | 0.0     | 6.5     | 6.5     | 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)