

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: P531345

Luminaire Tested: **GALN-SA6C-827-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531345  
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-SA6C-827-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 1050mA 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: 15986 lumens  
Efficiency: N/A  
Efficacy: 49.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

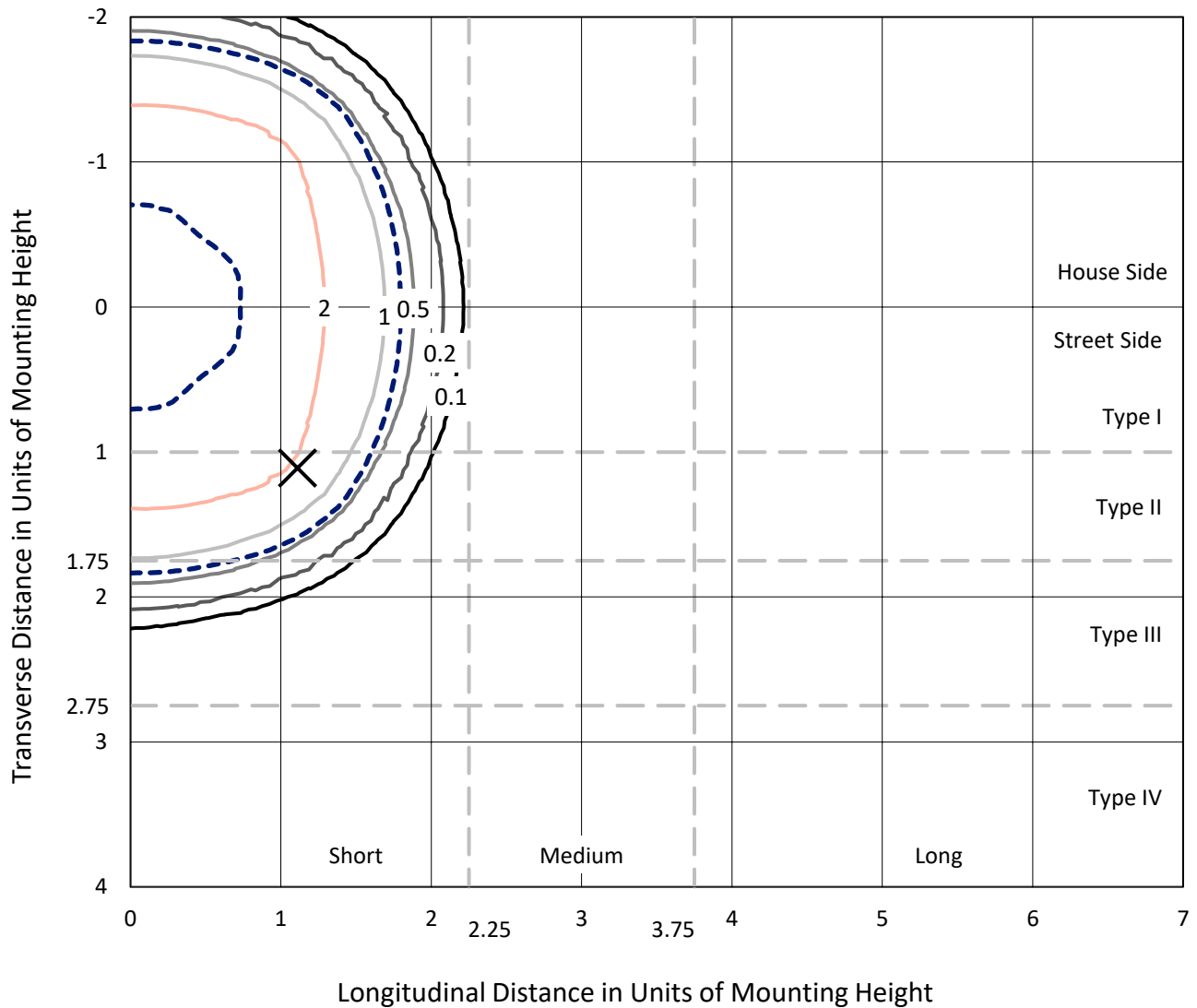
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

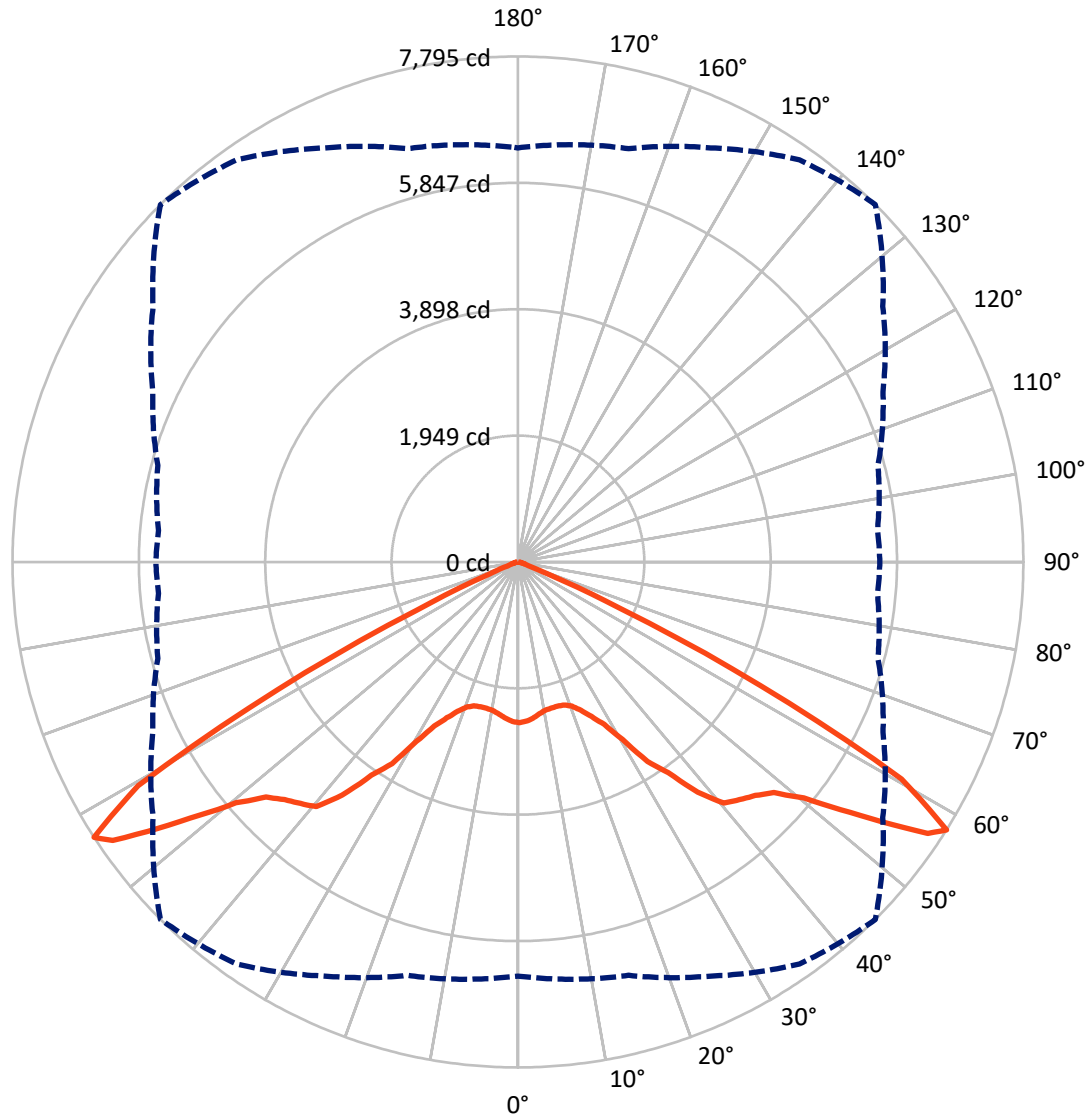
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7993.0   | 0.0    | 7993.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 7993.0   | 0.0    | 7993.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 15986.0  | 0.0    | 15986.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 227.9   | 1.4       |
| 10°-20°   | 658.6   | 4.1       |
| 20°-30°   | 1215.7  | 7.6       |
| 30°-40°   | 2390.9  | 15.0      |
| 40°-50°   | 3894.1  | 24.4      |
| 50°-60°   | 5553.5  | 34.7      |
| 60°-70°   | 1922.8  | 12.0      |
| 70°-80°   | 103.1   | 0.6       |
| 80°-90°   | 19.4    | 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°    | 15986.0 | 100.0     |
| 0°-180°   | 15986.0 | 100.0     |

**Coefficient of Utilization**



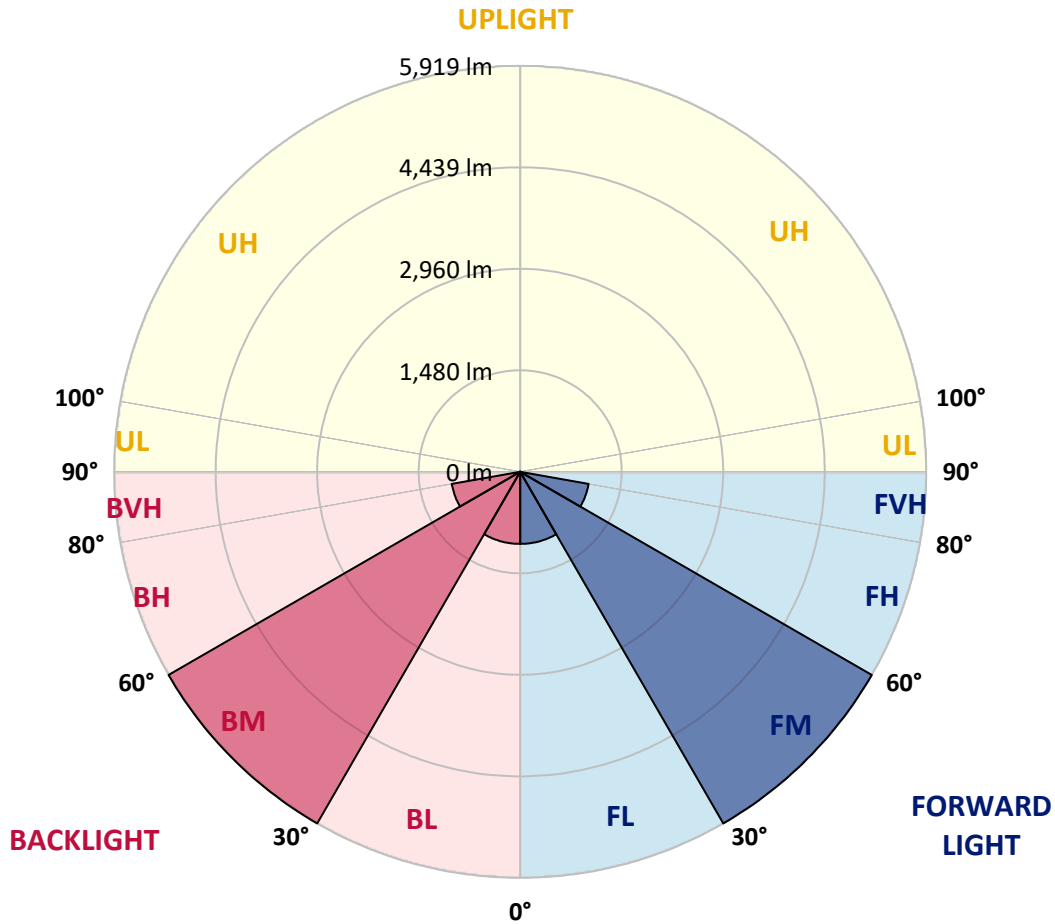
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1051.1 | 6.6       |                         |      |         |
| FM (30°-60°)   | 5919.3 | 37.0      |                         |      |         |
| FH (60°-80°)   | 1013.0 | 6.3       |                         |      | G1/1800 |
| FVH (80°-90°)  | 9.7    | 0.1       |                         |      | G0/10   |
| BL (0°-30°)    | 1051.1 | 6.6       | B3/2500                 |      |         |
| BM (30°-60°)   | 5919.3 | 37.0      | B4/8500                 |      |         |
| BH (60°-80°)   | 1013.0 | 6.3       | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 9.7    | 0.1       |                         |      | G0/10   |
| 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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CATALOG NUMBER: GALN-SA6C-827-U-5WQ-GRSBK

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2479.6 | 2479.6 | 2479.6 | 2479.6 | 2479.6 | 2479.6 | 2479.6 | 2479.6 | 2479.6 | 2479.6 | 2479.6 |
| 2.5°  | 2472.9 | 2486.3 | 2469.6 | 2462.9 | 2459.6 | 2459.6 | 2449.6 | 2449.6 | 2446.3 | 2449.6 | 2436.3 |
| 5°    | 2432.9 | 2446.3 | 2446.3 | 2442.9 | 2422.9 | 2419.6 | 2409.6 | 2402.9 | 2406.3 | 2392.9 | 2402.9 |
| 7.5°  | 2392.9 | 2402.9 | 2389.6 | 2386.3 | 2379.6 | 2366.3 | 2362.9 | 2333.0 | 2336.3 | 2336.3 | 2343.0 |
| 10°   | 2386.3 | 2382.9 | 2362.9 | 2346.3 | 2326.3 | 2323.0 | 2313.0 | 2306.3 | 2306.3 | 2303.0 | 2313.0 |
| 12.5° | 2386.3 | 2369.6 | 2366.3 | 2329.6 | 2296.3 | 2309.6 | 2283.0 | 2266.3 | 2289.6 | 2296.3 | 2309.6 |
| 15°   | 2382.9 | 2399.6 | 2343.0 | 2326.3 | 2303.0 | 2306.3 | 2283.0 | 2266.3 | 2279.6 | 2286.3 | 2296.3 |
| 17.5° | 2402.9 | 2392.9 | 2376.3 | 2343.0 | 2333.0 | 2319.6 | 2289.6 | 2276.3 | 2276.3 | 2293.0 | 2296.3 |
| 20°   | 2456.3 | 2429.6 | 2396.3 | 2379.6 | 2389.6 | 2372.9 | 2336.3 | 2286.3 | 2299.6 | 2313.0 | 2323.0 |
| 22.5° | 2506.3 | 2486.3 | 2462.9 | 2452.9 | 2509.6 | 2482.9 | 2419.6 | 2362.9 | 2343.0 | 2366.3 | 2382.9 |
| 25°   | 2602.9 | 2602.9 | 2559.6 | 2572.9 | 2636.2 | 2639.6 | 2566.2 | 2466.3 | 2452.9 | 2462.9 | 2469.6 |
| 27.5° | 2799.5 | 2809.5 | 2772.9 | 2786.2 | 2812.9 | 2836.2 | 2772.9 | 2689.6 | 2659.6 | 2656.2 | 2666.2 |
| 30°   | 3012.8 | 3032.8 | 3029.5 | 3086.2 | 3162.8 | 3176.1 | 3082.8 | 2946.2 | 2856.2 | 2839.5 | 2852.9 |
| 32.5° | 3292.8 | 3302.8 | 3296.1 | 3362.8 | 3569.4 | 3666.1 | 3422.8 | 3229.5 | 3109.5 | 3139.5 | 3109.5 |
| 35°   | 3819.4 | 3809.4 | 3736.1 | 3749.4 | 3919.4 | 3989.4 | 3756.1 | 3632.7 | 3576.1 | 3636.1 | 3622.7 |
| 37.5° | 4272.6 | 4236.0 | 4176.0 | 4262.6 | 4439.3 | 4502.6 | 4259.3 | 4042.7 | 3939.4 | 4039.3 | 4082.7 |
| 40°   | 4655.9 | 4562.6 | 4479.3 | 4565.9 | 4802.6 | 4889.2 | 4532.6 | 4356.0 | 4316.0 | 4389.3 | 4482.6 |
| 42.5° | 4979.2 | 4919.2 | 4809.2 | 4815.9 | 4972.5 | 5012.5 | 4725.9 | 4622.6 | 4582.6 | 4699.2 | 4745.9 |
| 45°   | 5209.2 | 5152.5 | 5049.2 | 5042.5 | 5162.5 | 5135.8 | 4879.2 | 4809.2 | 4832.5 | 4909.2 | 4932.5 |
| 47.5° | 5325.8 | 5355.8 | 5295.8 | 5312.5 | 5375.8 | 5312.5 | 5109.2 | 5109.2 | 5055.8 | 5102.5 | 5079.2 |
| 50°   | 5662.4 | 5569.1 | 5645.7 | 5645.7 | 5712.4 | 5719.1 | 5515.8 | 5442.4 | 5299.1 | 5219.1 | 5219.1 |
| 52.5° | 6055.7 | 6062.3 | 6092.3 | 6202.3 | 6315.6 | 6412.3 | 6122.3 | 5809.1 | 5569.1 | 5465.8 | 5452.4 |
| 55°   | 6379.0 | 6445.6 | 6565.6 | 6772.2 | 7098.8 | 7232.2 | 6732.2 | 6172.3 | 5879.0 | 5719.1 | 5685.7 |
| 56°   | 6555.6 | 6492.3 | 6698.9 | 6982.2 | 7408.8 | 7582.1 | 6832.2 | 6245.6 | 5922.4 | 5742.4 | 5739.1 |
| 57.5° | 6385.6 | 6455.6 | 6598.9 | 7045.5 | 7568.8 | 7795.4 | 6868.9 | 6212.3 | 5749.1 | 5565.8 | 5582.4 |
| 60°   | 5042.5 | 5109.2 | 5302.5 | 5802.4 | 6622.3 | 6798.9 | 5812.4 | 5122.5 | 4709.2 | 4445.9 | 4449.3 |
| 62.5° | 2852.9 | 2902.9 | 3052.8 | 3516.1 | 4026.0 | 4196.0 | 3622.7 | 3162.8 | 2876.2 | 2729.6 | 2682.9 |
| 65°   | 1049.8 | 1029.8 | 1053.2 | 1289.8 | 1603.1 | 1746.4 | 1506.4 | 1273.1 | 1123.2 | 1069.8 | 1049.8 |
| 67.5° | 393.3  | 363.3  | 339.9  | 363.3  | 456.6  | 483.3  | 443.3  | 369.9  | 346.6  | 356.6  | 363.3  |
| 70°   | 243.3  | 230.0  | 183.3  | 173.3  | 170.0  | 166.6  | 176.6  | 186.6  | 213.3  | 250.0  | 256.6  |
| 72.5° | 170.0  | 160.0  | 130.0  | 123.3  | 116.6  | 113.3  | 130.0  | 143.3  | 166.6  | 193.3  | 196.6  |
| 75°   | 66.7   | 70.0   | 66.7   | 73.3   | 76.7   | 80.0   | 93.3   | 103.3  | 113.3  | 113.3  | 110.0  |
| 77.5° | 13.3   | 13.3   | 20.0   | 26.7   | 33.3   | 43.3   | 63.3   | 73.3   | 76.7   | 73.3   | 63.3   |
| 80°   | 0.0    | 0.0    | 6.7    | 13.3   | 26.7   | 36.7   | 56.7   | 63.3   | 70.0   | 63.3   | 50.0   |
| 82.5° | 0.0    | 0.0    | 6.7    | 16.7   | 26.7   | 33.3   | 53.3   | 66.7   | 76.7   | 70.0   | 53.3   |
| 85°   | 0.0    | 0.0    | 6.7    | 13.3   | 20.0   | 23.3   | 23.3   | 16.7   | 16.7   | 10.0   | 6.7    |
| 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)