

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: P533689

Luminaire Tested: **GALN-SA9A-827-U-RW-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533689  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-827-U-RW-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19696 lumens  
Efficiency: N/A  
Efficacy: 71.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

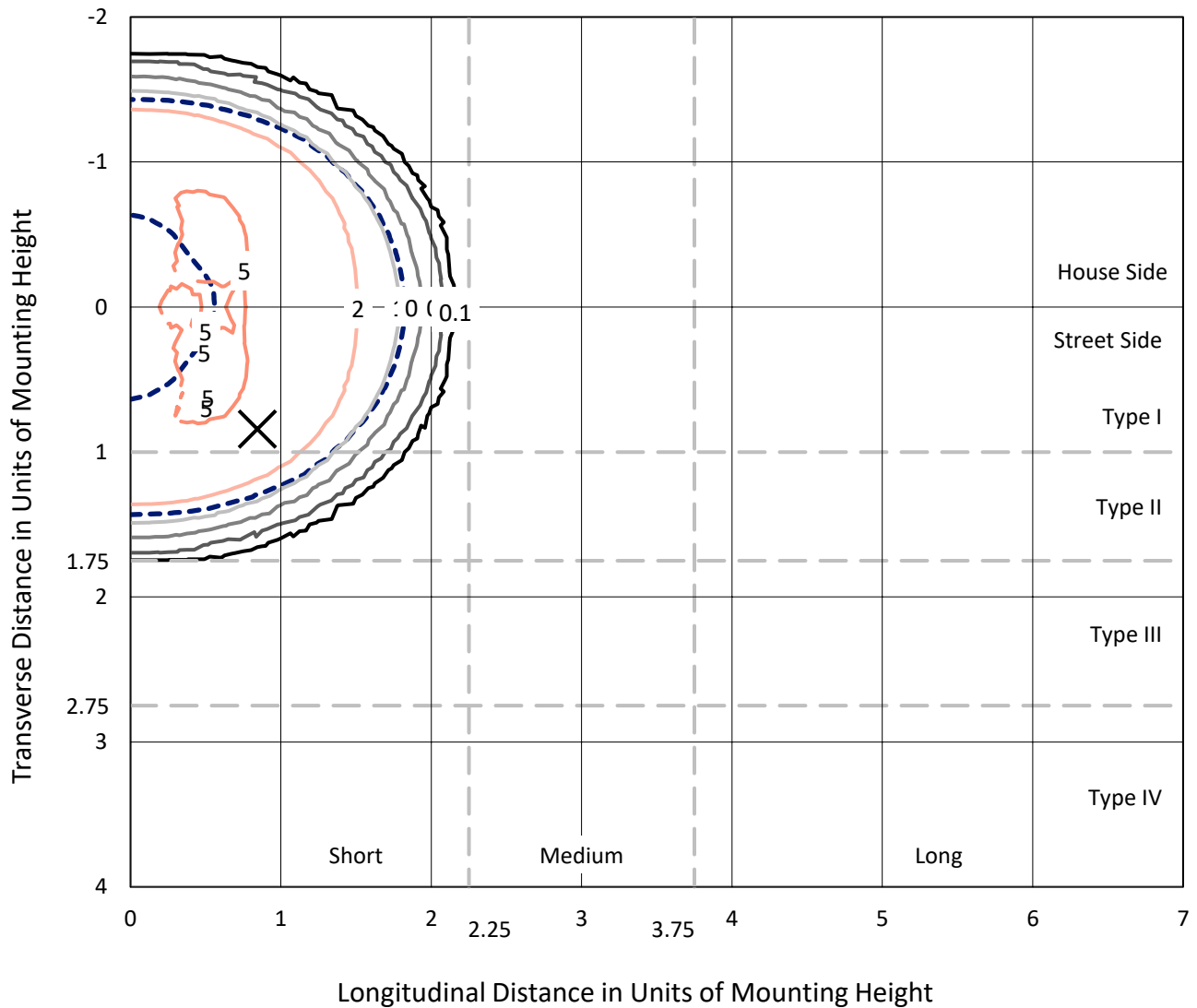
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

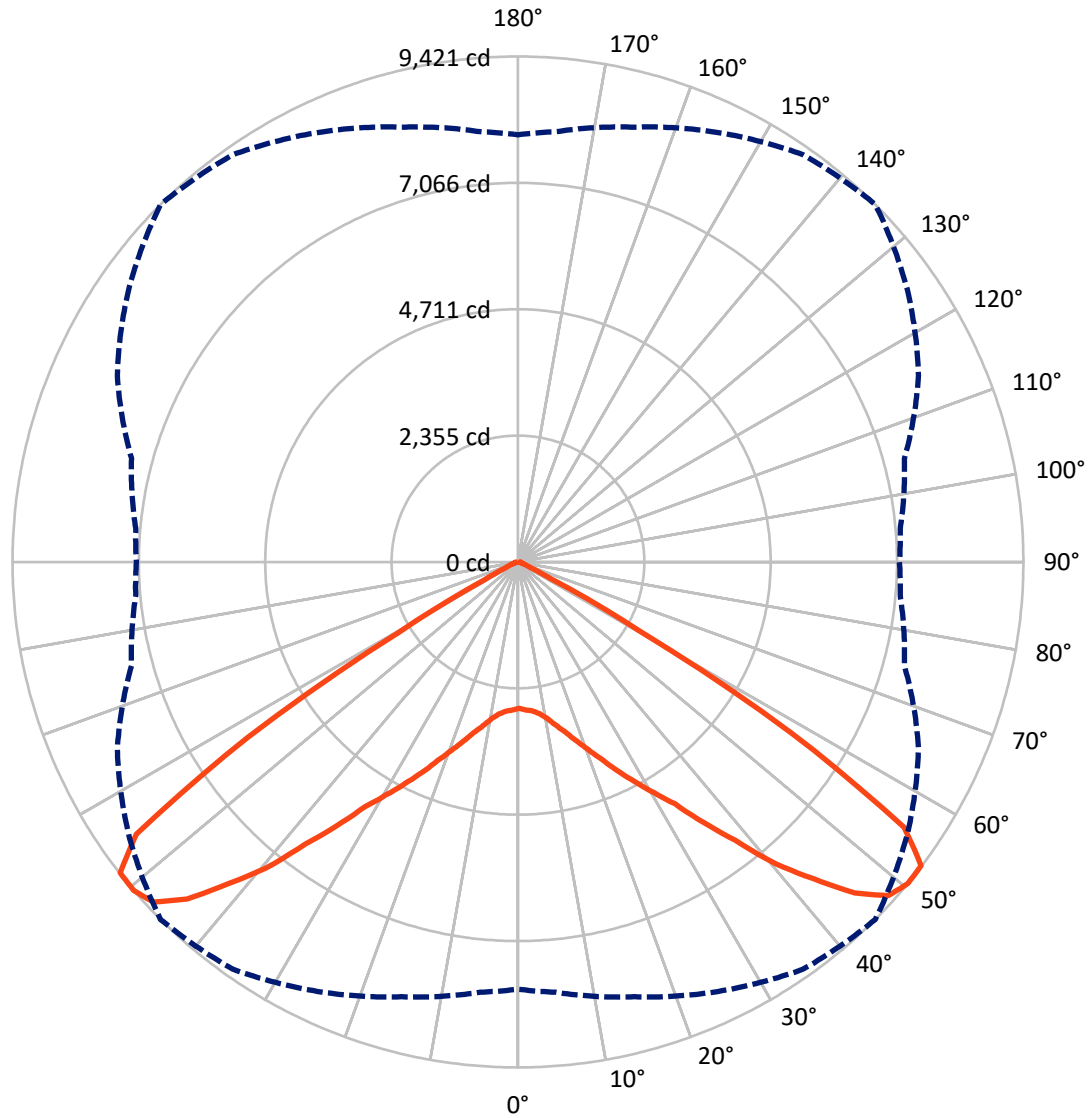
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9848.0   | 0.0    | 9848.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 9848.0   | 0.0    | 9848.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 19696.0  | 0.0    | 19696.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 271.7   | 1.4       |
| 10°-20°   | 936.3   | 4.8       |
| 20°-30°   | 1912.3  | 9.7       |
| 30°-40°   | 3646.7  | 18.5      |
| 40°-50°   | 6145.2  | 31.2      |
| 50°-60°   | 5860.5  | 29.8      |
| 60°-70°   | 818.1   | 4.2       |
| 70°-80°   | 78.2    | 0.4       |
| 80°-90°   | 27.0    | 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°    | 19696.0 | 100.0     |
| 0°-180°   | 19696.0 | 100.0     |

**Coefficient of Utilization**



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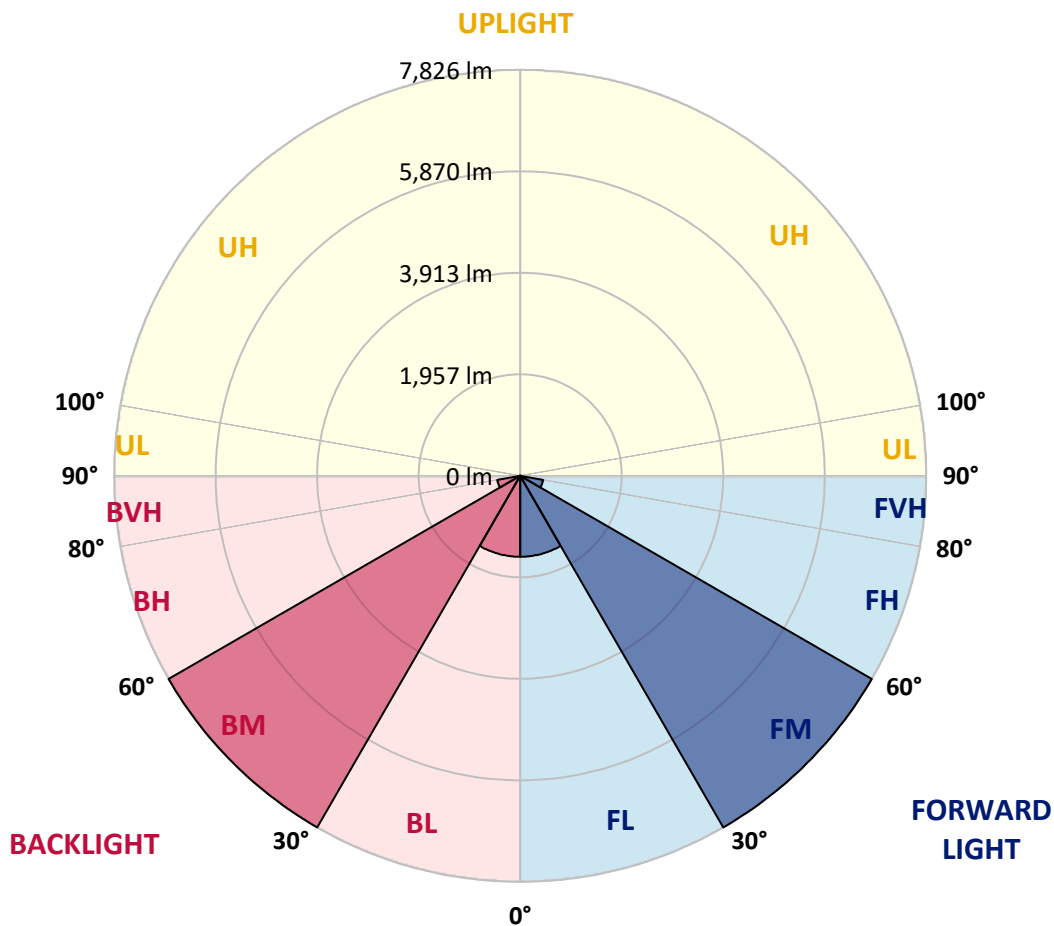
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 1560.1 | 7.9       |                         |      |        |
| FM (30°-60°)   | 7826.2 | 39.7      |                         |      |        |
| FH (60°-80°)   | 448.2  | 2.3       |                         |      | G0/660 |
| FVH (80°-90°)  | 13.5   | 0.1       |                         |      | G1/100 |
| BL (0°-30°)    | 1560.1 | 7.9       | B3/2500                 |      |        |
| BM (30°-60°)   | 7826.2 | 39.7      | B4/8500                 |      |        |
| BH (60°-80°)   | 448.2  | 2.3       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 13.5   | 0.1       |                         |      | G1/100 |
| 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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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2730.6 | 2730.6 | 2730.6 | 2730.6 | 2730.6 | 2730.6 | 2730.6 | 2730.6 | 2730.6 | 2730.6 | 2730.6 |
| 2.5°  | 2720.7 | 2720.7 | 2717.4 | 2743.9 | 2730.6 | 2760.5 | 2757.1 | 2767.1 | 2777.0 | 2773.7 | 2800.2 |
| 5°    | 2697.5 | 2694.2 | 2694.2 | 2724.0 | 2753.8 | 2787.0 | 2816.8 | 2836.7 | 2869.8 | 2869.8 | 2903.0 |
| 7.5°  | 2720.7 | 2704.1 | 2727.3 | 2740.6 | 2796.9 | 2853.2 | 2903.0 | 2942.7 | 3018.9 | 3045.5 | 3035.5 |
| 10°   | 2727.3 | 2747.2 | 2763.8 | 2803.5 | 2873.1 | 2959.3 | 3002.4 | 3101.8 | 3187.9 | 3247.6 | 3260.9 |
| 12.5° | 2770.4 | 2800.2 | 2846.6 | 2942.7 | 3005.7 | 3118.4 | 3178.0 | 3274.1 | 3393.4 | 3459.7 | 3506.1 |
| 15°   | 2853.2 | 2863.2 | 2922.8 | 3045.5 | 3181.3 | 3284.1 | 3376.8 | 3446.4 | 3562.4 | 3638.6 | 3641.9 |
| 17.5° | 2959.3 | 3002.4 | 3085.2 | 3201.2 | 3343.7 | 3496.1 | 3569.0 | 3645.3 | 3688.3 | 3791.1 | 3814.3 |
| 20°   | 3171.4 | 3178.0 | 3257.5 | 3410.0 | 3588.9 | 3728.1 | 3781.1 | 3820.9 | 3804.3 | 3910.4 | 3930.3 |
| 22.5° | 3370.2 | 3376.8 | 3476.3 | 3681.7 | 3873.9 | 3993.2 | 4016.4 | 3993.2 | 3943.5 | 4019.7 | 4026.4 |
| 25°   | 3572.4 | 3632.0 | 3704.9 | 3910.4 | 4149.0 | 4308.0 | 4311.4 | 4248.4 | 4145.7 | 4158.9 | 4192.1 |
| 27.5° | 3887.2 | 3930.3 | 4006.5 | 4195.4 | 4457.2 | 4636.1 | 4606.3 | 4530.1 | 4397.5 | 4407.5 | 4397.5 |
| 30°   | 4255.0 | 4294.8 | 4357.7 | 4599.7 | 4791.9 | 4987.4 | 5030.5 | 4957.6 | 4758.7 | 4715.6 | 4765.4 |
| 32.5° | 4699.1 | 4755.4 | 4871.4 | 5093.4 | 5255.8 | 5375.1 | 5404.9 | 5378.4 | 5192.8 | 5176.3 | 5209.4 |
| 35°   | 5239.2 | 5315.5 | 5421.5 | 5617.0 | 5749.6 | 5965.0 | 5965.0 | 5875.5 | 5706.5 | 5726.4 | 5723.1 |
| 37.5° | 5809.2 | 5921.9 | 6087.6 | 6286.4 | 6465.4 | 6581.4 | 6544.9 | 6468.7 | 6299.7 | 6256.6 | 6299.7 |
| 40°   | 6525.0 | 6581.4 | 6790.1 | 7048.6 | 7267.3 | 7399.9 | 7244.1 | 7078.4 | 6674.1 | 6737.1 | 6853.1 |
| 42.5° | 7177.9 | 7267.3 | 7426.4 | 7711.4 | 7959.9 | 8069.3 | 7883.7 | 7555.6 | 7068.5 | 7018.8 | 7104.9 |
| 45°   | 7734.6 | 7830.7 | 8039.5 | 8447.1 | 8708.9 | 8805.0 | 8394.0 | 7863.8 | 7307.1 | 7181.2 | 7217.6 |
| 47.5° | 8105.7 | 8155.4 | 8447.1 | 8834.8 | 9073.4 | 9292.1 | 8702.2 | 8075.9 | 7419.8 | 7181.2 | 7167.9 |
| 50°   | 7963.2 | 8049.4 | 8390.7 | 8831.5 | 9265.6 | 9421.3 | 8858.0 | 8238.3 | 7456.2 | 7151.3 | 7111.6 |
| 52.5° | 7071.8 | 7220.9 | 7602.0 | 8195.2 | 8851.4 | 9408.1 | 9073.4 | 8185.3 | 7443.0 | 7181.2 | 7240.8 |
| 55°   | 4921.1 | 4924.4 | 5388.4 | 6263.2 | 7423.1 | 8735.4 | 8758.6 | 8244.9 | 7529.1 | 7366.7 | 7370.1 |
| 57.5° | 1978.4 | 2077.8 | 2432.4 | 3310.6 | 4380.9 | 5998.1 | 7131.5 | 7648.4 | 7539.1 | 7499.3 | 7602.0 |
| 60°   | 500.4  | 503.7  | 613.1  | 934.5  | 1541.0 | 2571.6 | 3734.7 | 5053.7 | 5819.2 | 6081.0 | 6117.4 |
| 62.5° | 255.2  | 258.5  | 285.0  | 331.4  | 420.9  | 689.3  | 1226.1 | 1945.2 | 2767.1 | 3184.6 | 3294.0 |
| 65°   | 208.8  | 208.8  | 225.3  | 248.5  | 251.9  | 265.1  | 318.1  | 454.0  | 659.5  | 748.9  | 758.9  |
| 67.5° | 159.1  | 159.1  | 172.3  | 185.6  | 192.2  | 188.9  | 182.3  | 188.9  | 228.7  | 218.7  | 212.1  |
| 70°   | 99.4   | 102.7  | 109.4  | 122.6  | 129.2  | 132.6  | 135.9  | 142.5  | 162.4  | 169.0  | 162.4  |
| 72.5° | 59.6   | 59.6   | 63.0   | 72.9   | 82.8   | 89.5   | 99.4   | 106.0  | 116.0  | 132.6  | 129.2  |
| 75°   | 26.5   | 26.5   | 33.1   | 43.1   | 53.0   | 63.0   | 72.9   | 82.8   | 89.5   | 99.4   | 102.7  |
| 77.5° | 6.6    | 9.9    | 16.6   | 29.8   | 39.8   | 53.0   | 66.3   | 76.2   | 82.8   | 82.8   | 79.5   |
| 80°   | 3.3    | 3.3    | 13.3   | 23.2   | 43.1   | 56.3   | 72.9   | 79.5   | 89.5   | 82.8   | 72.9   |
| 82.5° | 3.3    | 3.3    | 13.3   | 23.2   | 39.8   | 56.3   | 76.2   | 86.2   | 92.8   | 82.8   | 69.6   |
| 85°   | 0.0    | 3.3    | 9.9    | 19.9   | 33.1   | 39.8   | 33.1   | 23.2   | 13.3   | 13.3   | 9.9    |
| 87.5° | 0.0    | 0.0    | 3.3    | 3.3    | 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)