

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: P534201

Luminaire Tested: **GALN-SA9D-722-U-5MQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534201  
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-SA9D-722-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2200K, 1200mA 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: 30940 lumens  
Efficiency: N/A  
Efficacy: 56.1 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

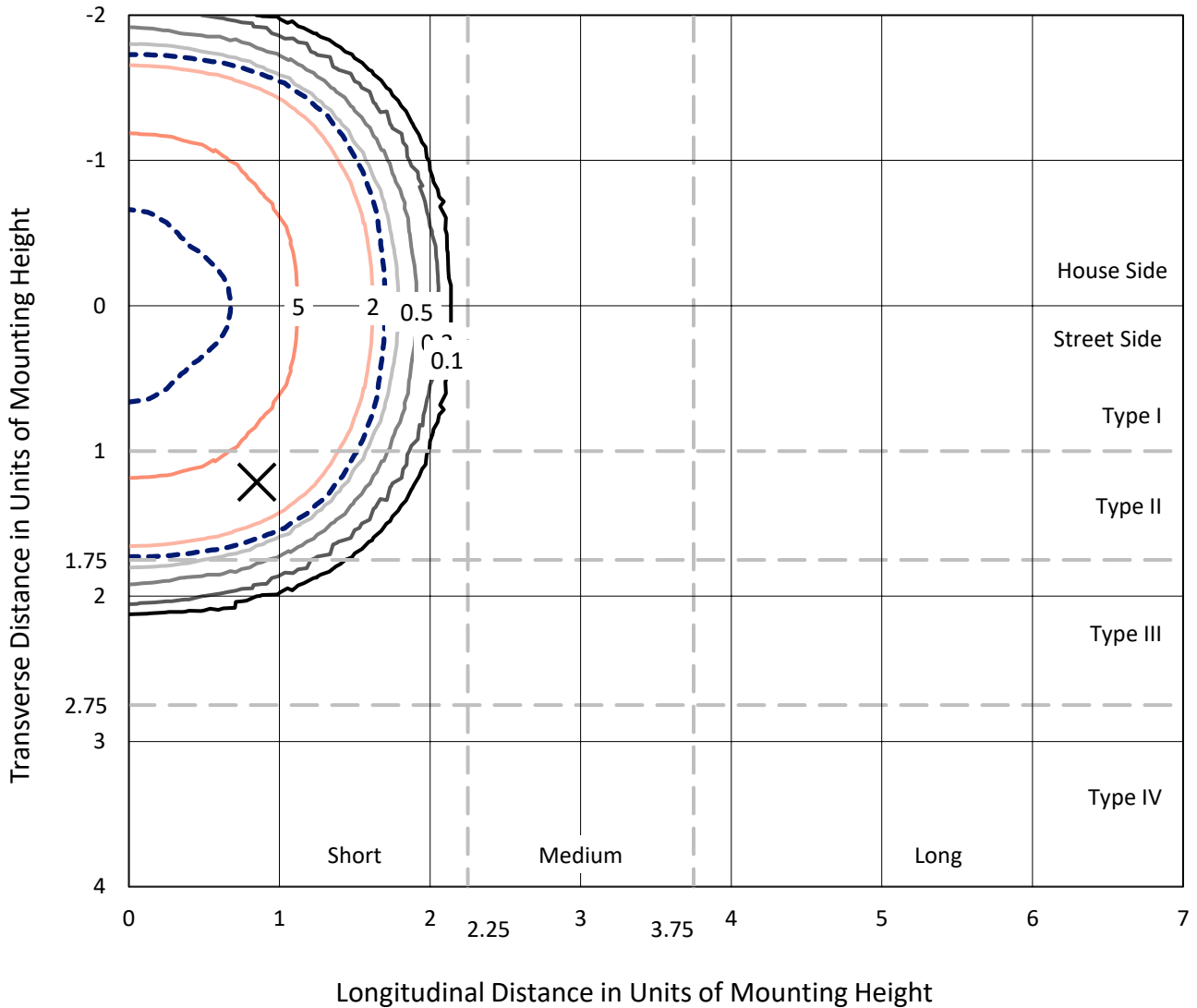
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

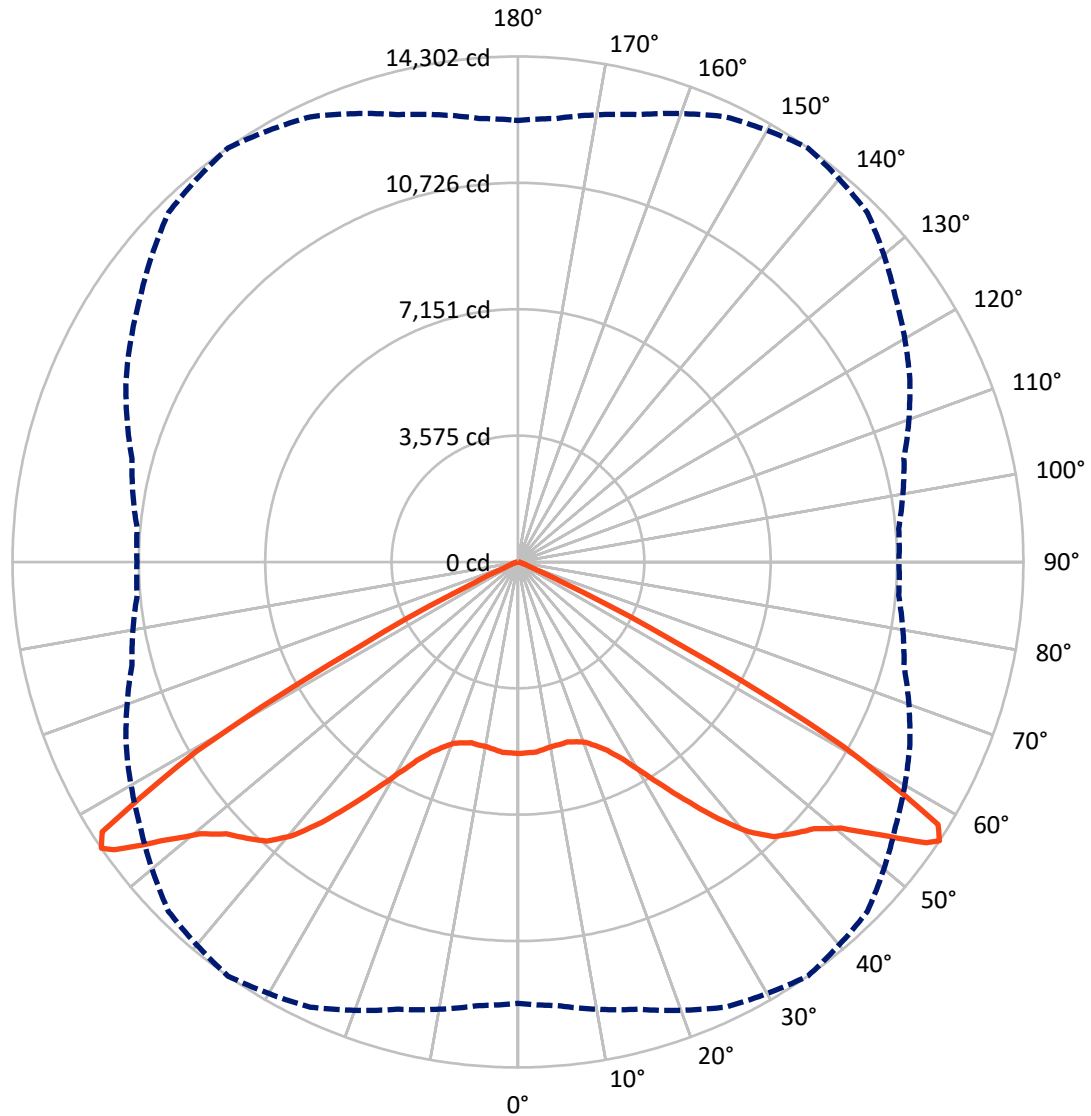
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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    | 15470.0  | 0.0    | 15470.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 15470.0  | 0.0    | 15470.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 30940.0  | 0.0    | 30940.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 509.5   | 1.6       |
| 10°-20°   | 1487.6  | 4.8       |
| 20°-30°   | 2693.8  | 8.7       |
| 30°-40°   | 4995.2  | 16.1      |
| 40°-50°   | 8199.3  | 26.5      |
| 50°-60°   | 10563.1 | 34.1      |
| 60°-70°   | 2328.0  | 7.5       |
| 70°-80°   | 135.1   | 0.4       |
| 80°-90°   | 28.4    | 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°    | 30940.0 | 100.0     |
| 0°-180°   | 30940.0 | 100.0     |

**Coefficient of Utilization**

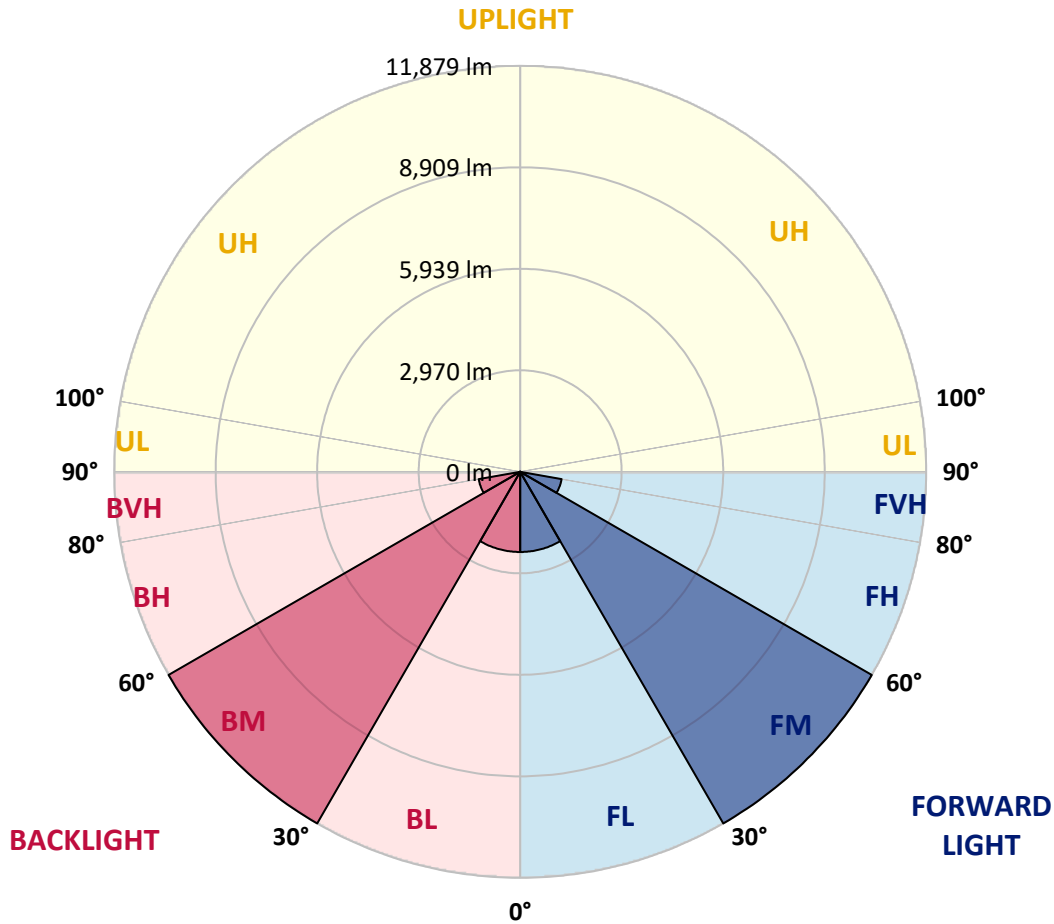


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2345.4  | 7.6       |                         |      |         |
| FM (30°-60°)   | 11878.8 | 38.4      |                         |      |         |
| FH (60°-80°)   | 1231.5  | 4.0       |                         |      | G1/1800 |
| FVH (80°-90°)  | 14.2    | 0.0       |                         |      | G1/100  |
| BL (0°-30°)    | 2345.4  | 7.6       | B3/2500                 |      |         |
| BM (30°-60°)   | 11878.8 | 38.4      | B5                      |      |         |
| BH (60°-80°)   | 1231.5  | 4.0       | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 14.2    | 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°    | 5421.4  | 5421.4  | 5421.4  | 5421.4  | 5421.4  | 5421.4  | 5421.4  | 5421.4  | 5421.4  | 5421.4  | 5421.4  |
| 2.5°  | 5432.6  | 5432.6  | 5438.2  | 5443.8  | 5404.5  | 5387.7  | 5393.3  | 5382.1  | 5376.5  | 5393.3  | 5393.3  |
| 5°    | 5415.7  | 5415.7  | 5398.9  | 5404.5  | 5404.5  | 5354.1  | 5354.1  | 5365.3  | 5365.3  | 5331.7  | 5320.4  |
| 7.5°  | 5370.9  | 5359.7  | 5337.3  | 5365.3  | 5348.5  | 5348.5  | 5309.2  | 5281.2  | 5270.0  | 5292.4  | 5270.0  |
| 10°   | 5275.6  | 5281.2  | 5303.6  | 5314.8  | 5303.6  | 5337.3  | 5270.0  | 5230.7  | 5191.5  | 5174.7  | 5174.7  |
| 12.5° | 5230.7  | 5264.4  | 5230.7  | 5258.8  | 5298.0  | 5270.0  | 5230.7  | 5202.7  | 5146.6  | 5124.2  | 5124.2  |
| 15°   | 5225.1  | 5247.6  | 5258.8  | 5298.0  | 5281.2  | 5292.4  | 5213.9  | 5180.3  | 5096.2  | 5056.9  | 5040.1  |
| 17.5° | 5219.5  | 5247.6  | 5264.4  | 5337.3  | 5348.5  | 5354.1  | 5292.4  | 5191.5  | 5118.6  | 5079.4  | 5040.1  |
| 20°   | 5281.2  | 5292.4  | 5326.0  | 5398.9  | 5443.8  | 5522.3  | 5410.1  | 5303.6  | 5146.6  | 5101.8  | 5085.0  |
| 22.5° | 5359.7  | 5415.7  | 5449.4  | 5527.9  | 5645.6  | 5712.9  | 5567.1  | 5432.6  | 5270.0  | 5213.9  | 5146.6  |
| 25°   | 5612.0  | 5600.8  | 5656.8  | 5819.4  | 5914.7  | 5965.2  | 5847.4  | 5651.2  | 5438.2  | 5370.9  | 5382.1  |
| 27.5° | 5925.9  | 5937.1  | 5987.6  | 6167.0  | 6307.2  | 6385.6  | 6245.5  | 5987.6  | 5780.2  | 5668.0  | 5656.8  |
| 30°   | 6335.2  | 6324.0  | 6380.0  | 6621.1  | 6873.4  | 6991.1  | 6744.5  | 6441.7  | 6239.9  | 6094.1  | 6127.8  |
| 32.5° | 6766.9  | 6772.5  | 6929.5  | 7148.1  | 7557.4  | 7787.2  | 7389.2  | 7019.2  | 6716.4  | 6615.5  | 6565.1  |
| 35°   | 7406.0  | 7434.0  | 7557.4  | 7893.8  | 8347.9  | 8645.0  | 8207.7  | 7764.8  | 7417.2  | 7232.2  | 7254.6  |
| 37.5° | 8196.5  | 8168.5  | 8375.9  | 8740.3  | 9216.9  | 9435.5  | 9065.5  | 8560.9  | 8207.7  | 8084.4  | 8162.9  |
| 40°   | 9037.5  | 9065.5  | 9172.0  | 9502.8  | 10035.4 | 10181.2 | 9631.7  | 9357.0  | 9048.7  | 8987.0  | 9082.3  |
| 42.5° | 9878.4  | 9861.6  | 9940.1  | 10237.2 | 10624.1 | 10523.1 | 10198.0 | 10035.4 | 9816.7  | 9693.4  | 9822.3  |
| 45°   | 10495.1 | 10467.1 | 10612.8 | 10814.7 | 10954.8 | 10764.2 | 10618.5 | 10562.4 | 10450.3 | 10315.7 | 10433.4 |
| 47.5° | 11095.0 | 11072.6 | 11212.7 | 11268.8 | 11280.0 | 11027.7 | 11055.7 | 11156.7 | 10876.3 | 10596.0 | 10730.6 |
| 50°   | 11605.2 | 11565.9 | 11739.7 | 11863.1 | 11835.0 | 11431.4 | 11532.3 | 11431.4 | 10994.1 | 10663.3 | 10612.8 |
| 52.5° | 12457.3 | 12474.2 | 12659.2 | 12883.4 | 12816.1 | 12479.8 | 12334.0 | 11874.3 | 11313.6 | 11016.5 | 10842.7 |
| 55°   | 12995.6 | 12911.5 | 13231.0 | 13943.0 | 14021.5 | 13673.9 | 13029.2 | 12350.8 | 11509.9 | 11145.5 | 11100.6 |
| 56°   | 12491.0 | 12597.5 | 13102.1 | 13898.2 | 14301.8 | 13982.3 | 13046.0 | 12233.1 | 11308.0 | 10814.7 | 10781.0 |
| 57.5° | 11207.1 | 11151.1 | 11835.0 | 12922.7 | 14021.5 | 13887.0 | 12586.3 | 11392.1 | 10315.7 | 9760.7  | 9693.4  |
| 60°   | 6974.3  | 7136.9  | 7736.8  | 9082.3  | 10551.2 | 10618.5 | 9329.0  | 8303.0  | 7047.2  | 6553.8  | 6671.6  |
| 62.5° | 2730.3  | 2590.1  | 2965.8  | 3969.3  | 4978.5  | 5202.7  | 4715.0  | 3918.8  | 3218.1  | 2730.3  | 2696.7  |
| 65°   | 633.5   | 616.7   | 695.2   | 958.7   | 1339.9  | 1553.0  | 1474.5  | 1059.6  | 779.3   | 740.0   | 684.0   |
| 67.5° | 358.8   | 358.8   | 342.0   | 342.0   | 375.6   | 398.1   | 381.2   | 375.6   | 392.4   | 409.3   | 403.7   |
| 70°   | 252.3   | 246.7   | 235.5   | 241.1   | 229.9   | 229.9   | 246.7   | 274.7   | 297.1   | 297.1   | 302.7   |
| 72.5° | 151.4   | 151.4   | 151.4   | 168.2   | 168.2   | 168.2   | 185.0   | 207.4   | 213.0   | 207.4   | 201.8   |
| 75°   | 67.3    | 67.3    | 78.5    | 95.3    | 106.5   | 112.1   | 128.9   | 140.2   | 151.4   | 140.2   | 128.9   |
| 77.5° | 16.8    | 16.8    | 28.0    | 39.2    | 50.5    | 61.7    | 84.1    | 100.9   | 106.5   | 100.9   | 84.1    |
| 80°   | 5.6     | 5.6     | 11.2    | 28.0    | 50.5    | 61.7    | 84.1    | 89.7    | 95.3    | 84.1    | 67.3    |
| 82.5° | 5.6     | 5.6     | 11.2    | 28.0    | 39.2    | 50.5    | 67.3    | 78.5    | 84.1    | 72.9    | 67.3    |
| 85°   | 0.0     | 5.6     | 11.2    | 22.4    | 33.6    | 44.9    | 44.9    | 33.6    | 28.0    | 16.8    | 22.4    |
| 87.5° | 0.0     | 0.0     | 5.6     | 5.6     | 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)