

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: STREETWORKS

Report Number: P528845

Luminaire Tested: **GLAN-SA4A-727-U-5MQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528845  
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: STREETWORKS  
Catalog Number: GLAN-SA4A-727-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 615mA 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: 9080 lumens  
Efficiency: N/A  
Efficacy: 75.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0

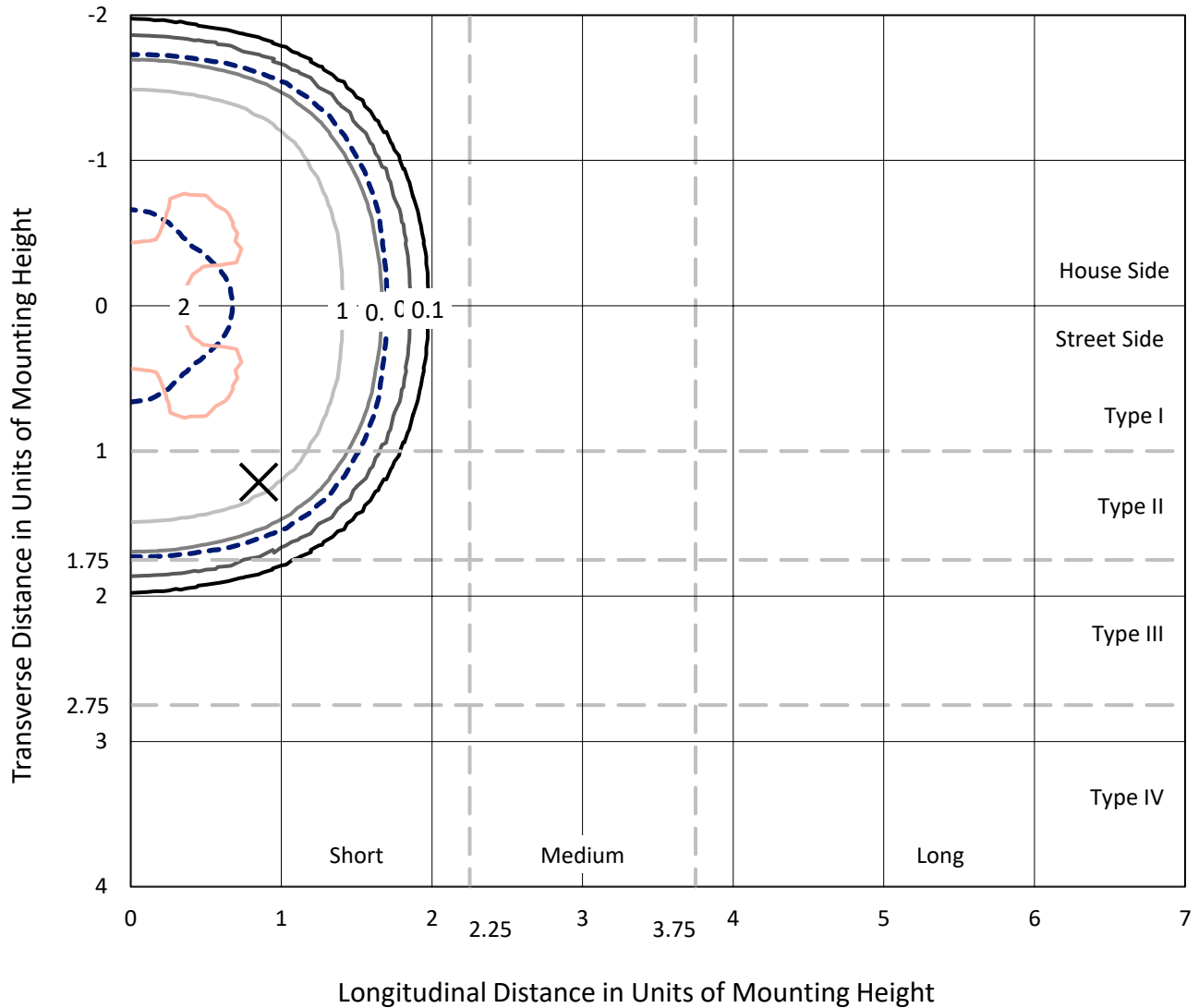
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

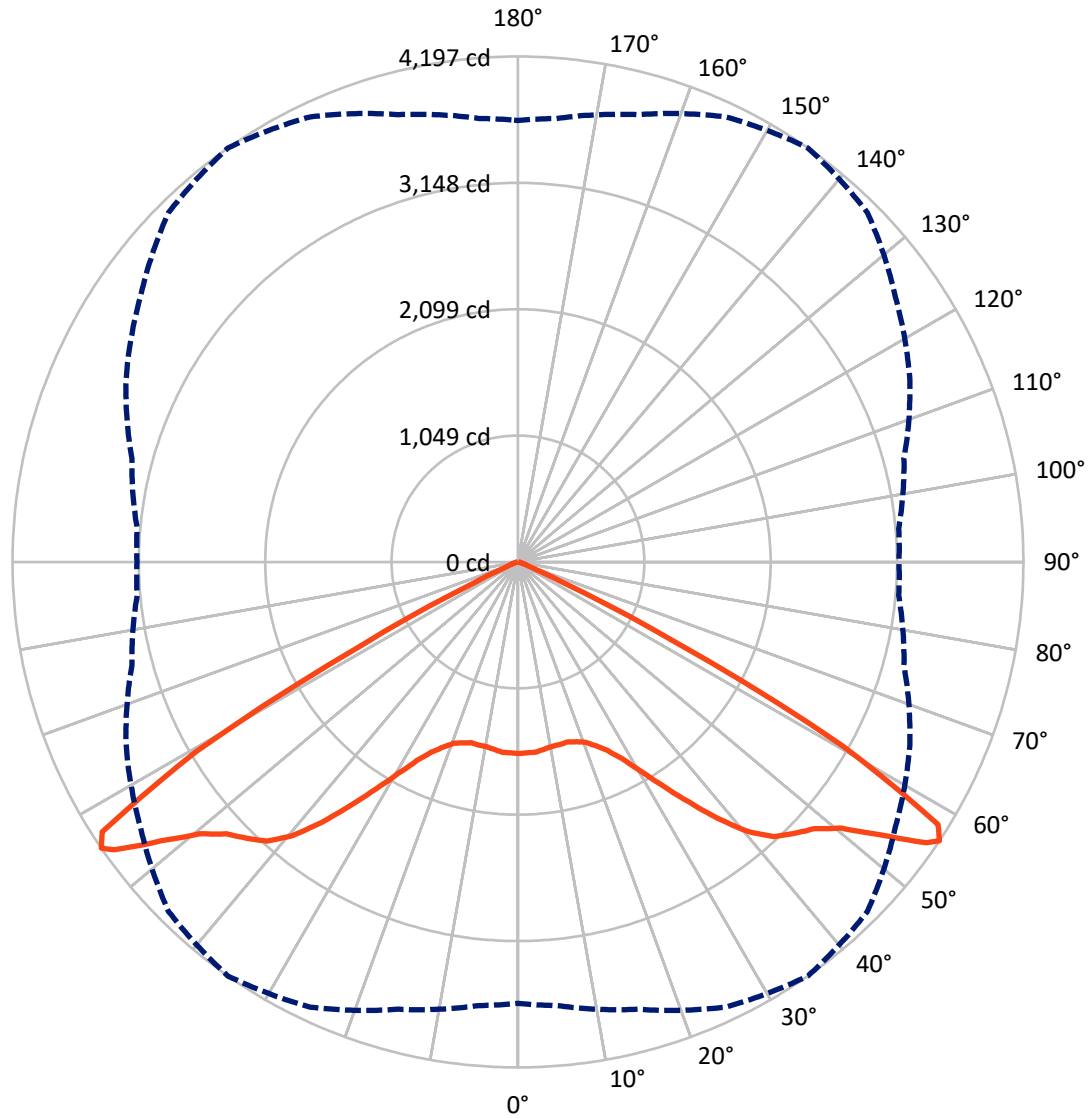
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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    | 4540.0   | 0.0    | 4540.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4540.0   | 0.0    | 4540.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 9080.0   | 0.0    | 9080.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 149.5  | 1.6       |
| 10°-20°   | 436.6  | 4.8       |
| 20°-30°   | 790.5  | 8.7       |
| 30°-40°   | 1466.0 | 16.1      |
| 40°-50°   | 2406.3 | 26.5      |
| 50°-60°   | 3100.0 | 34.1      |
| 60°-70°   | 683.2  | 7.5       |
| 70°-80°   | 39.6   | 0.4       |
| 80°-90°   | 8.3    | 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°    | 9080.0 | 100.0     |
| 0°-180°   | 9080.0 | 100.0     |

**Coefficient of Utilization**

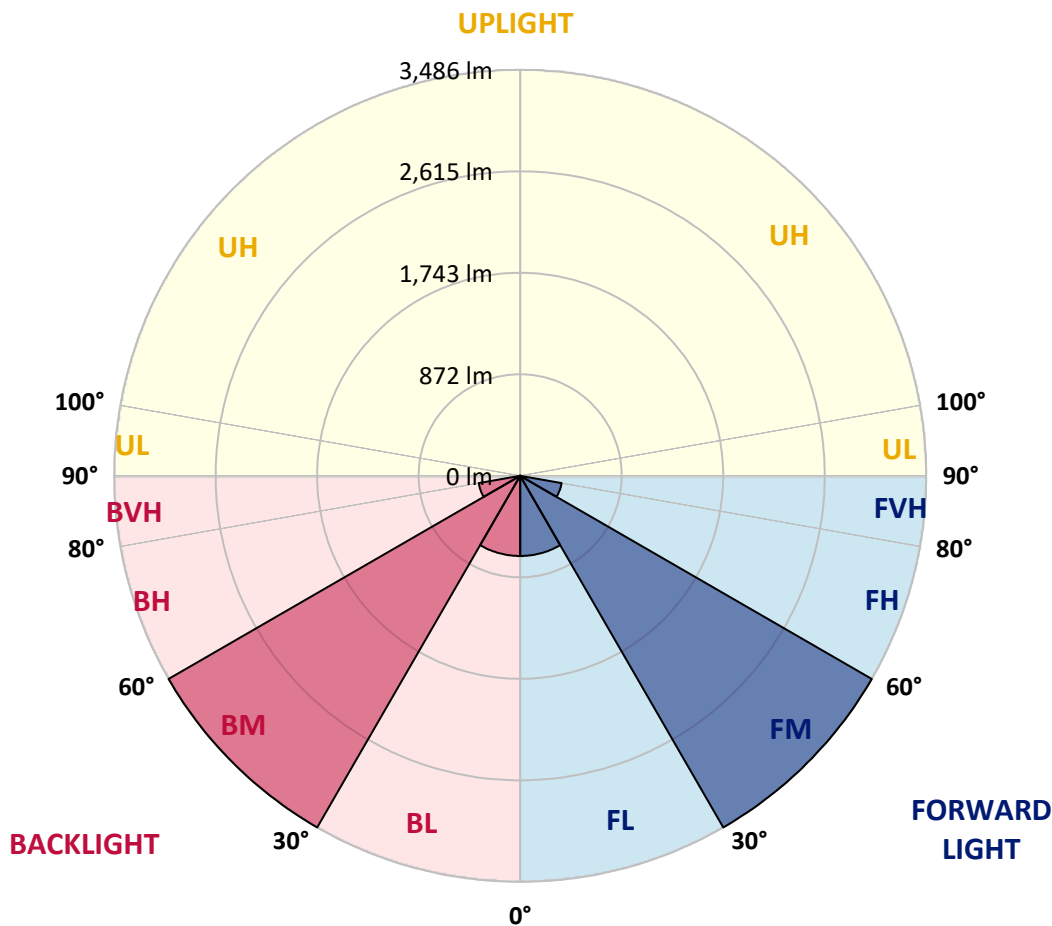


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 688.3  | 7.6       |                         |      |        |
| FM (30°-60°)   | 3486.1 | 38.4      |                         |      |        |
| FH (60°-80°)   | 361.4  | 4.0       |                         |      | G0/660 |
| FVH (80°-90°)  | 4.2    | 0.0       |                         |      | G0/10  |
| BL (0°-30°)    | 688.3  | 7.6       | B2/1000                 |      |        |
| BM (30°-60°)   | 3486.1 | 38.4      | B3/5000                 |      |        |
| BH (60°-80°)   | 361.4  | 4.0       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 4.2    | 0.0       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B3-U0-G0**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1591.0 | 1591.0 | 1591.0 | 1591.0 | 1591.0 | 1591.0 | 1591.0 | 1591.0 | 1591.0 | 1591.0 | 1591.0 |
| 2.5°  | 1594.3 | 1594.3 | 1595.9 | 1597.6 | 1586.1 | 1581.1 | 1582.8 | 1579.5 | 1577.8 | 1582.8 | 1582.8 |
| 5°    | 1589.4 | 1589.4 | 1584.4 | 1586.1 | 1586.1 | 1571.3 | 1571.3 | 1574.6 | 1574.6 | 1564.7 | 1561.4 |
| 7.5°  | 1576.2 | 1572.9 | 1566.3 | 1574.6 | 1569.6 | 1569.6 | 1558.1 | 1549.9 | 1546.6 | 1553.2 | 1546.6 |
| 10°   | 1548.2 | 1549.9 | 1556.5 | 1559.8 | 1556.5 | 1566.3 | 1546.6 | 1535.1 | 1523.6 | 1518.6 | 1518.6 |
| 12.5° | 1535.1 | 1544.9 | 1535.1 | 1543.3 | 1554.8 | 1546.6 | 1535.1 | 1526.8 | 1510.4 | 1503.8 | 1503.8 |
| 15°   | 1533.4 | 1540.0 | 1543.3 | 1554.8 | 1549.9 | 1553.2 | 1530.1 | 1520.3 | 1495.6 | 1484.1 | 1479.1 |
| 17.5° | 1531.8 | 1540.0 | 1544.9 | 1566.3 | 1569.6 | 1571.3 | 1553.2 | 1523.6 | 1502.2 | 1490.6 | 1479.1 |
| 20°   | 1549.9 | 1553.2 | 1563.0 | 1584.4 | 1597.6 | 1620.6 | 1587.7 | 1556.5 | 1510.4 | 1497.2 | 1492.3 |
| 22.5° | 1572.9 | 1589.4 | 1599.2 | 1622.3 | 1656.8 | 1676.6 | 1633.8 | 1594.3 | 1546.6 | 1530.1 | 1510.4 |
| 25°   | 1647.0 | 1643.7 | 1660.1 | 1707.8 | 1735.8 | 1750.6 | 1716.1 | 1658.5 | 1595.9 | 1576.2 | 1579.5 |
| 27.5° | 1739.1 | 1742.4 | 1757.2 | 1809.8 | 1851.0 | 1874.0 | 1832.9 | 1757.2 | 1696.3 | 1663.4 | 1660.1 |
| 30°   | 1859.2 | 1855.9 | 1872.4 | 1943.1 | 2017.1 | 2051.7 | 1979.3 | 1890.5 | 1831.2 | 1788.4 | 1798.3 |
| 32.5° | 1985.9 | 1987.5 | 2033.6 | 2097.8 | 2217.9 | 2285.3 | 2168.5 | 2059.9 | 1971.1 | 1941.5 | 1926.7 |
| 35°   | 2173.4 | 2181.7 | 2217.9 | 2316.6 | 2449.9 | 2537.1 | 2408.7 | 2278.7 | 2176.7 | 2122.4 | 2129.0 |
| 37.5° | 2405.4 | 2397.2 | 2458.1 | 2565.0 | 2704.9 | 2769.1 | 2660.5 | 2512.4 | 2408.7 | 2372.5 | 2395.6 |
| 40°   | 2652.2 | 2660.5 | 2691.7 | 2788.8 | 2945.1 | 2987.9 | 2826.6 | 2746.0 | 2655.5 | 2637.4 | 2665.4 |
| 42.5° | 2899.0 | 2894.1 | 2917.1 | 3004.3 | 3117.9 | 3088.2 | 2992.8 | 2945.1 | 2880.9 | 2844.7 | 2882.6 |
| 45°   | 3080.0 | 3071.8 | 3114.6 | 3173.8 | 3214.9 | 3159.0 | 3116.2 | 3099.8 | 3066.9 | 3027.4 | 3061.9 |
| 47.5° | 3256.1 | 3249.5 | 3290.6 | 3307.1 | 3310.4 | 3236.3 | 3244.5 | 3274.2 | 3191.9 | 3109.6 | 3149.1 |
| 50°   | 3405.8 | 3394.3 | 3445.3 | 3481.5 | 3473.2 | 3354.8 | 3384.4 | 3354.8 | 3226.4 | 3129.4 | 3114.6 |
| 52.5° | 3655.9 | 3660.8 | 3715.1 | 3780.9 | 3761.2 | 3662.5 | 3619.7 | 3484.8 | 3320.2 | 3233.0 | 3182.0 |
| 55°   | 3813.8 | 3789.1 | 3882.9 | 4091.9 | 4114.9 | 4012.9 | 3823.7 | 3624.6 | 3377.8 | 3270.9 | 3257.7 |
| 56°   | 3665.7 | 3697.0 | 3845.1 | 4078.7 | 4197.2 | 4103.4 | 3828.6 | 3590.1 | 3318.6 | 3173.8 | 3163.9 |
| 57.5° | 3289.0 | 3272.5 | 3473.2 | 3792.4 | 4114.9 | 4075.4 | 3693.7 | 3343.3 | 3027.4 | 2864.5 | 2844.7 |
| 60°   | 2046.8 | 2094.5 | 2270.5 | 2665.4 | 3096.5 | 3116.2 | 2737.8 | 2436.7 | 2068.2 | 1923.4 | 1957.9 |
| 62.5° | 801.3  | 760.1  | 870.4  | 1164.9 | 1461.0 | 1526.8 | 1383.7 | 1150.1 | 944.4  | 801.3  | 791.4  |
| 65°   | 185.9  | 181.0  | 204.0  | 281.3  | 393.2  | 455.7  | 432.7  | 311.0  | 228.7  | 217.2  | 200.7  |
| 67.5° | 105.3  | 105.3  | 100.4  | 100.4  | 110.2  | 116.8  | 111.9  | 110.2  | 115.2  | 120.1  | 118.5  |
| 70°   | 74.0   | 72.4   | 69.1   | 70.7   | 67.5   | 67.5   | 72.4   | 80.6   | 87.2   | 87.2   | 88.8   |
| 72.5° | 44.4   | 44.4   | 44.4   | 49.4   | 49.4   | 49.4   | 54.3   | 60.9   | 62.5   | 60.9   | 59.2   |
| 75°   | 19.7   | 19.7   | 23.0   | 28.0   | 31.3   | 32.9   | 37.8   | 41.1   | 44.4   | 41.1   | 37.8   |
| 77.5° | 4.9    | 4.9    | 8.2    | 11.5   | 14.8   | 18.1   | 24.7   | 29.6   | 31.3   | 29.6   | 24.7   |
| 80°   | 1.6    | 1.6    | 3.3    | 8.2    | 14.8   | 18.1   | 24.7   | 26.3   | 28.0   | 24.7   | 19.7   |
| 82.5° | 1.6    | 1.6    | 3.3    | 8.2    | 11.5   | 14.8   | 19.7   | 23.0   | 24.7   | 21.4   | 19.7   |
| 85°   | 0.0    | 1.6    | 3.3    | 6.6    | 9.9    | 13.2   | 13.2   | 9.9    | 8.2    | 4.9    | 6.6    |
| 87.5° | 0.0    | 0.0    | 1.6    | 1.6    | 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)