

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: P451321

Luminaire Tested: **GALN-SA2B-722-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451321
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-722-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8822 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

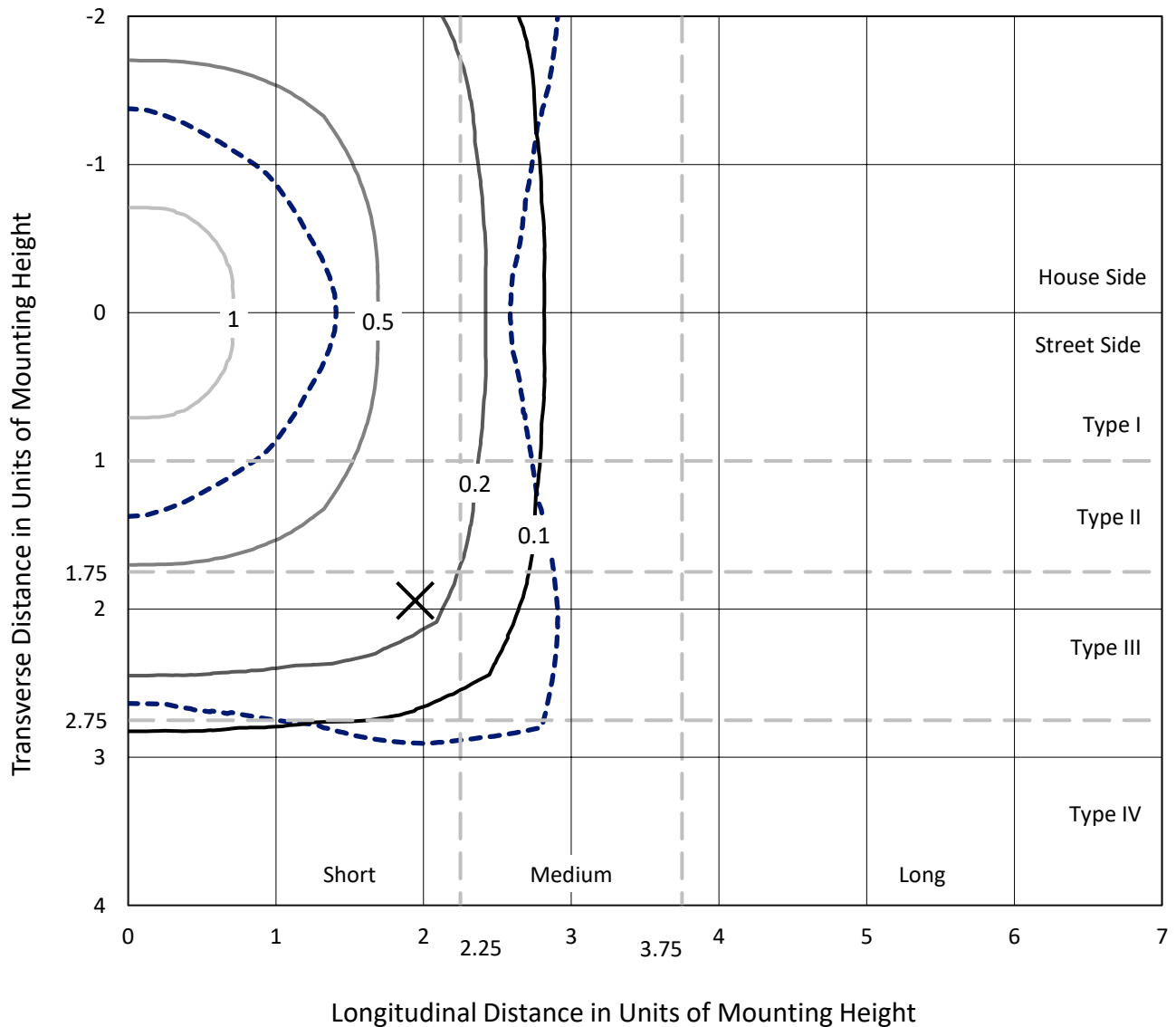
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

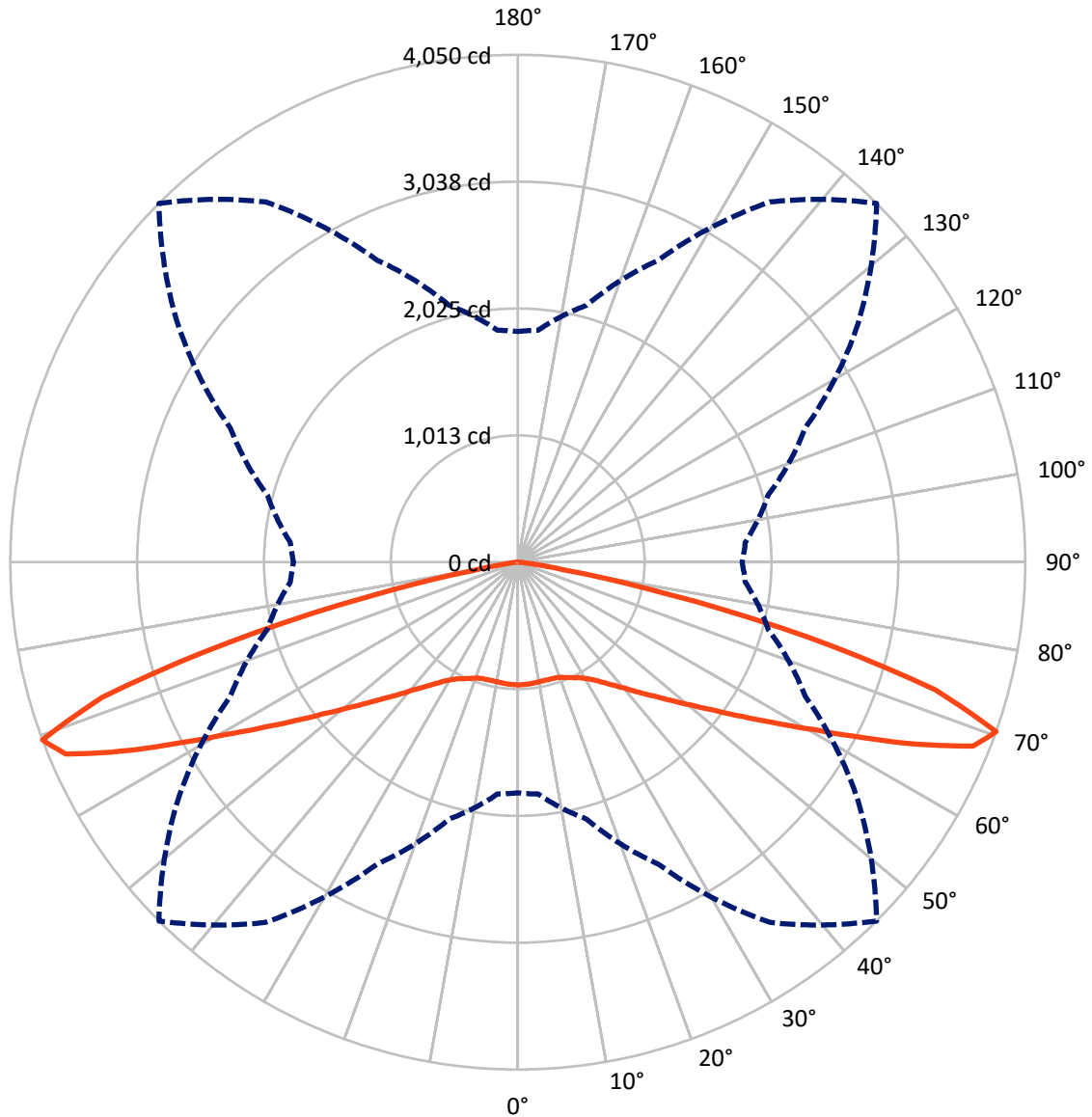
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4411.0 | 0.0 | 4411.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4411.0 | 0.0 | 4411.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 8822.0 | 0.0 | 8822.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 92.9 | 1.1 |
| 10°-20° | 272.6 | 3.1 |
| 20°-30° | 466.2 | 5.3 |
| 30°-40° | 740.0 | 8.4 |
| 40°-50° | 1193.8 | 13.5 |
| 50°-60° | 1942.4 | 22.0 |
| 60°-70° | 2815.8 | 31.9 |
| 70°-80° | 1249.0 | 14.2 |
| 80°-90° | 49.3 | 0.6 |
| 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° | 8822.0 | 100.0 |
| 0°-180° | 8822.0 | 100.0 |

Coefficient of Utilization



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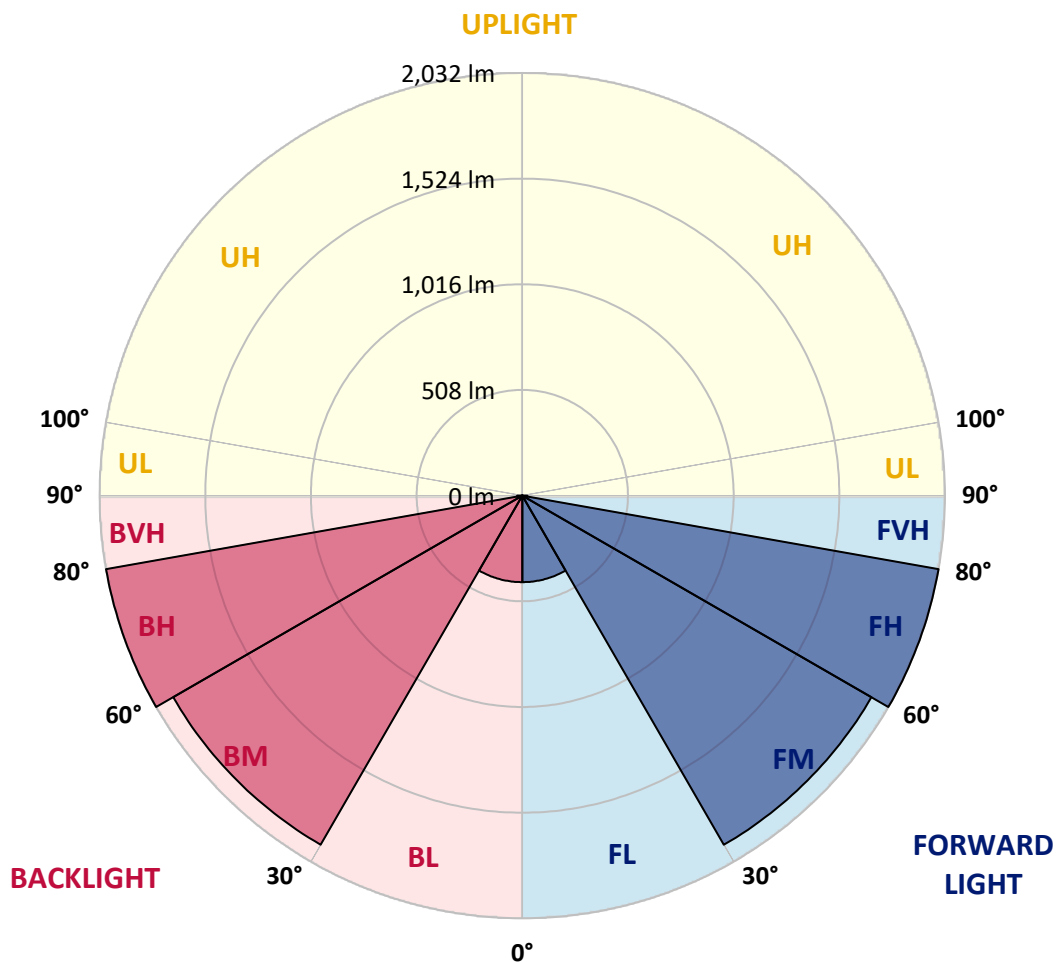
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 415.9 | 4.7 | | | |
| FM (30°-60°) | 1938.1 | 22.0 | | | |
| FH (60°-80°) | 2032.4 | 23.0 | | | G2/5000 |
| FVH (80°-90°) | 24.6 | 0.3 | | | G1/100 |
| BL (0°-30°) | 415.9 | 4.7 | B1/500 | | |
| BM (30°-60°) | 1938.1 | 22.0 | B2/2500 | | |
| BH (60°-80°) | 2032.4 | 23.0 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 24.6 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 979.6 | 979.6 | 979.6 | 979.6 | 979.6 | 979.6 | 979.6 | 979.6 | 979.6 | 979.6 | 979.6 |
| 2.5° | 979.6 | 980.6 | 979.2 | 978.2 | 977.8 | 977.8 | 977.3 | 977.8 | 980.6 | 981.0 | 979.6 |
| 5° | 976.9 | 977.8 | 977.3 | 976.4 | 975.9 | 975.9 | 975.5 | 975.0 | 977.3 | 978.2 | 977.8 |
| 7.5° | 973.1 | 973.6 | 973.1 | 972.7 | 973.1 | 972.7 | 971.3 | 970.3 | 972.2 | 972.2 | 971.7 |
| 10° | 966.6 | 967.6 | 967.1 | 967.6 | 968.5 | 968.5 | 966.6 | 964.8 | 965.2 | 964.3 | 964.3 |
| 12.5° | 958.7 | 960.1 | 960.6 | 962.4 | 964.8 | 967.6 | 963.4 | 959.2 | 958.3 | 957.8 | 957.3 |
| 15° | 953.6 | 955.0 | 956.9 | 958.7 | 962.9 | 968.9 | 962.9 | 956.4 | 954.5 | 952.7 | 951.7 |
| 17.5° | 952.2 | 954.1 | 956.9 | 959.6 | 965.2 | 971.3 | 966.2 | 959.6 | 955.0 | 952.2 | 951.3 |
| 20° | 955.9 | 957.3 | 961.5 | 966.6 | 974.5 | 980.6 | 975.5 | 968.5 | 961.5 | 957.3 | 955.9 |
| 22.5° | 963.4 | 965.7 | 970.8 | 980.1 | 991.3 | 1000.1 | 993.1 | 981.5 | 970.3 | 964.8 | 962.9 |
| 25° | 979.6 | 981.5 | 987.5 | 1000.1 | 1013.1 | 1021.5 | 1014.0 | 1000.6 | 985.2 | 977.8 | 975.5 |
| 27.5° | 1004.3 | 1007.1 | 1013.6 | 1028.5 | 1039.2 | 1043.8 | 1038.7 | 1029.4 | 1018.2 | 1010.3 | 1008.5 |
| 30° | 1039.2 | 1042.4 | 1052.2 | 1068.0 | 1075.0 | 1077.7 | 1075.4 | 1069.4 | 1061.5 | 1053.1 | 1051.2 |
| 32.5° | 1086.1 | 1088.0 | 1099.1 | 1114.0 | 1120.5 | 1121.5 | 1118.7 | 1115.9 | 1102.9 | 1088.9 | 1088.0 |
| 35° | 1138.7 | 1141.9 | 1155.4 | 1173.1 | 1179.1 | 1179.6 | 1174.0 | 1169.8 | 1154.5 | 1143.3 | 1143.3 |
| 37.5° | 1208.4 | 1209.8 | 1222.8 | 1242.8 | 1249.3 | 1247.5 | 1244.7 | 1240.9 | 1224.7 | 1210.3 | 1210.7 |
| 40° | 1290.2 | 1293.0 | 1304.2 | 1327.4 | 1327.4 | 1325.1 | 1327.0 | 1324.2 | 1307.9 | 1293.9 | 1294.4 |
| 42.5° | 1387.4 | 1388.8 | 1402.3 | 1426.9 | 1425.1 | 1420.4 | 1422.3 | 1418.6 | 1408.3 | 1392.5 | 1386.9 |
| 45° | 1491.1 | 1496.7 | 1519.9 | 1543.6 | 1539.9 | 1525.0 | 1532.5 | 1531.5 | 1522.2 | 1498.5 | 1499.9 |
| 47.5° | 1616.2 | 1625.5 | 1647.8 | 1676.1 | 1671.9 | 1648.7 | 1657.1 | 1662.6 | 1649.6 | 1623.6 | 1618.9 |
| 50° | 1757.0 | 1763.1 | 1796.1 | 1822.6 | 1818.9 | 1794.2 | 1813.3 | 1814.2 | 1781.7 | 1744.9 | 1744.9 |
| 52.5° | 1907.2 | 1913.3 | 1957.9 | 1999.3 | 2001.6 | 1965.8 | 1981.1 | 1980.2 | 1927.2 | 1878.8 | 1869.5 |
| 55° | 2075.5 | 2078.3 | 2136.0 | 2196.9 | 2209.9 | 2175.0 | 2176.9 | 2158.3 | 2089.5 | 2033.2 | 2028.1 |
| 57.5° | 2249.4 | 2259.6 | 2323.3 | 2402.4 | 2441.0 | 2419.6 | 2409.8 | 2360.1 | 2293.6 | 2229.0 | 2225.7 |
| 60° | 2441.9 | 2442.4 | 2525.1 | 2618.6 | 2696.7 | 2711.1 | 2671.1 | 2604.6 | 2518.6 | 2433.1 | 2429.3 |
| 62.5° | 2575.3 | 2595.3 | 2699.9 | 2858.0 | 2998.0 | 3078.9 | 2973.3 | 2833.8 | 2664.6 | 2526.5 | 2512.6 |
| 65° | 2602.8 | 2616.3 | 2775.7 | 3043.5 | 3329.5 | 3503.8 | 3259.7 | 2963.1 | 2674.4 | 2490.3 | 2481.0 |
| 67.5° | 2381.0 | 2395.4 | 2610.2 | 3021.2 | 3562.0 | 3919.5 | 3445.7 | 2900.8 | 2508.8 | 2281.0 | 2262.9 |
| 70° | 1841.7 | 1857.9 | 2123.4 | 2659.5 | 3510.3 | 4050.1 | 3313.2 | 2530.2 | 2069.0 | 1823.1 | 1790.0 |
| 72.5° | 979.2 | 1039.2 | 1266.0 | 1825.4 | 2849.2 | 3487.1 | 2716.7 | 1846.3 | 1334.4 | 1090.8 | 1047.1 |
| 75° | 357.5 | 365.0 | 491.4 | 809.5 | 1657.5 | 2391.2 | 1721.2 | 880.6 | 506.3 | 391.0 | 371.0 |
| 77.5° | 147.9 | 147.4 | 161.8 | 244.6 | 602.1 | 1224.7 | 671.8 | 258.5 | 161.3 | 149.2 | 147.4 |
| 80° | 87.4 | 87.4 | 96.2 | 101.8 | 158.5 | 369.6 | 177.1 | 115.3 | 96.7 | 88.3 | 89.7 |
| 82.5° | 39.1 | 41.4 | 60.9 | 64.2 | 76.7 | 101.4 | 85.6 | 73.5 | 63.2 | 43.7 | 39.5 |
| 85° | 21.4 | 18.6 | 32.1 | 33.5 | 36.7 | 37.7 | 40.5 | 40.0 | 36.7 | 21.4 | 21.9 |
| 87.5° | 4.2 | 5.1 | 9.3 | 7.0 | 7.9 | 7.0 | 9.3 | 13.0 | 13.5 | 7.4 | 6.0 |
| 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)