

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: P450510

Luminaire Tested: **GALN-SA1B-750-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450510
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-750-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6009 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

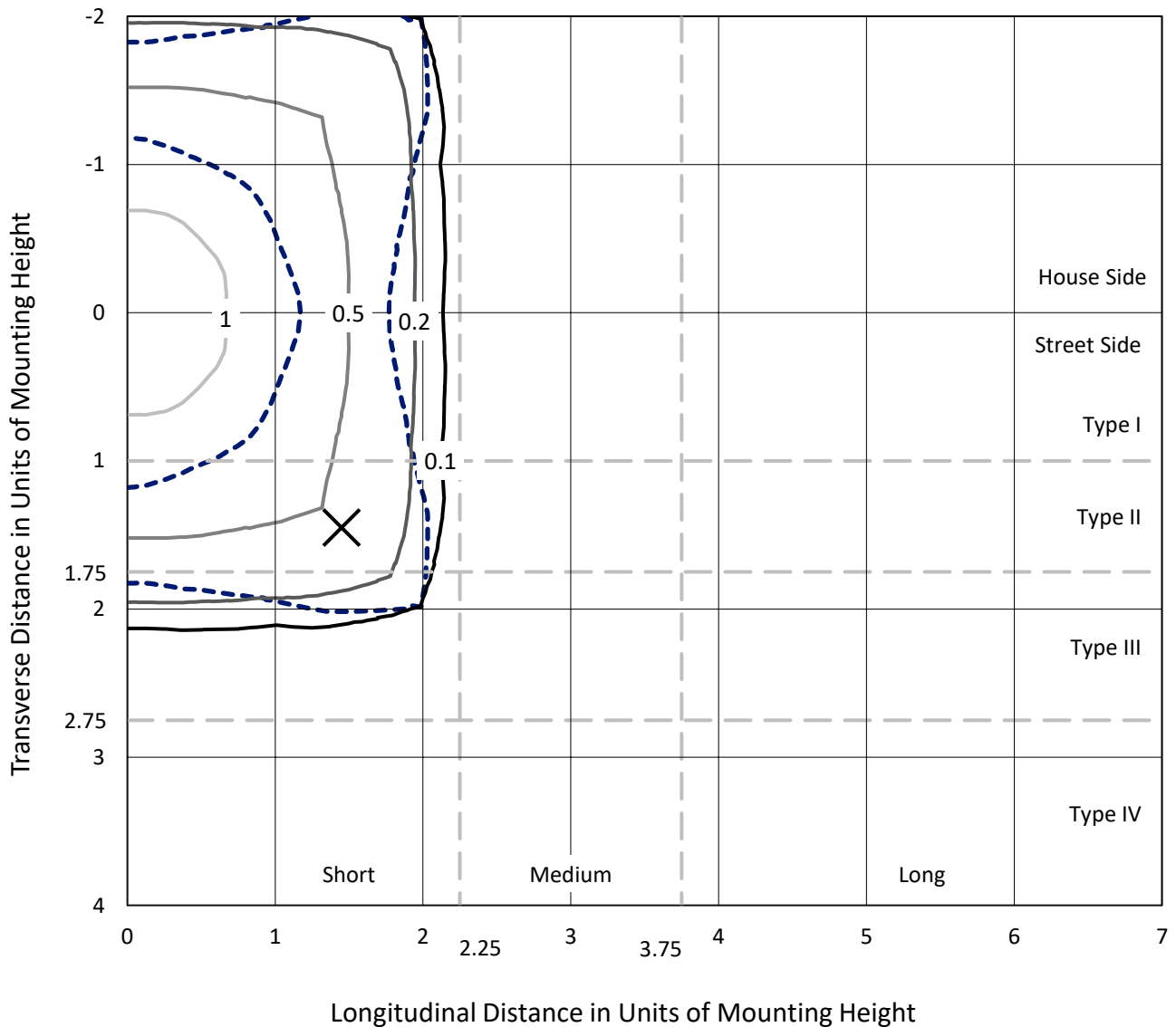
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

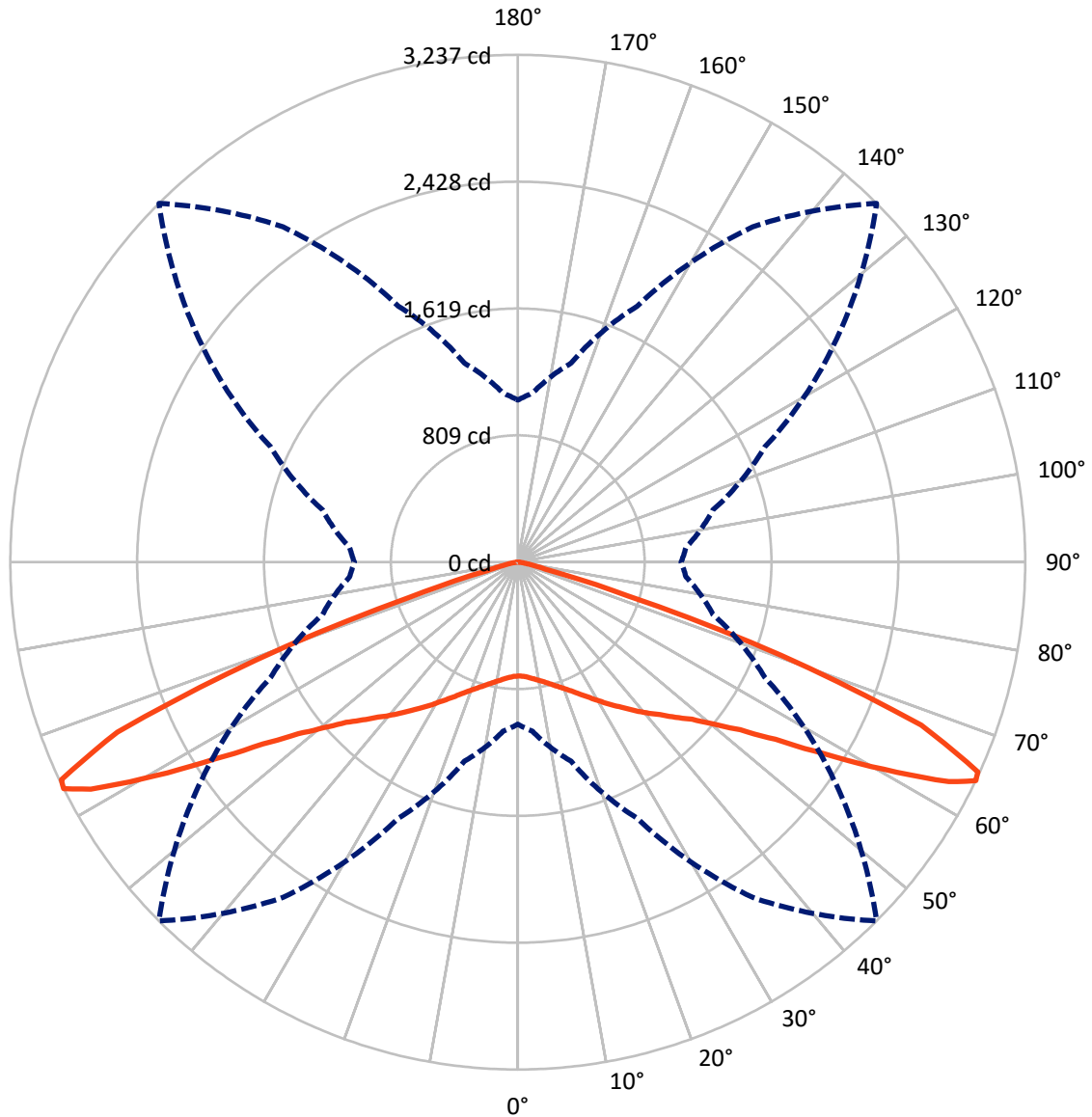
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3004.5 | 0.0 | 3004.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3004.5 | 0.0 | 3004.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 6009.0 | 0.0 | 6009.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 71.4 | 1.2 |
| 10°-20° | 230.2 | 3.8 |
| 20°-30° | 434.9 | 7.2 |
| 30°-40° | 720.3 | 12.0 |
| 40°-50° | 1124.5 | 18.7 |
| 50°-60° | 1738.5 | 28.9 |
| 60°-70° | 1499.1 | 24.9 |
| 70°-80° | 169.9 | 2.8 |
| 80°-90° | 20.3 | 0.3 |
| 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° | 6009.0 | 100.0 |
| 0°-180° | 6009.0 | 100.0 |

Coefficient of Utilization



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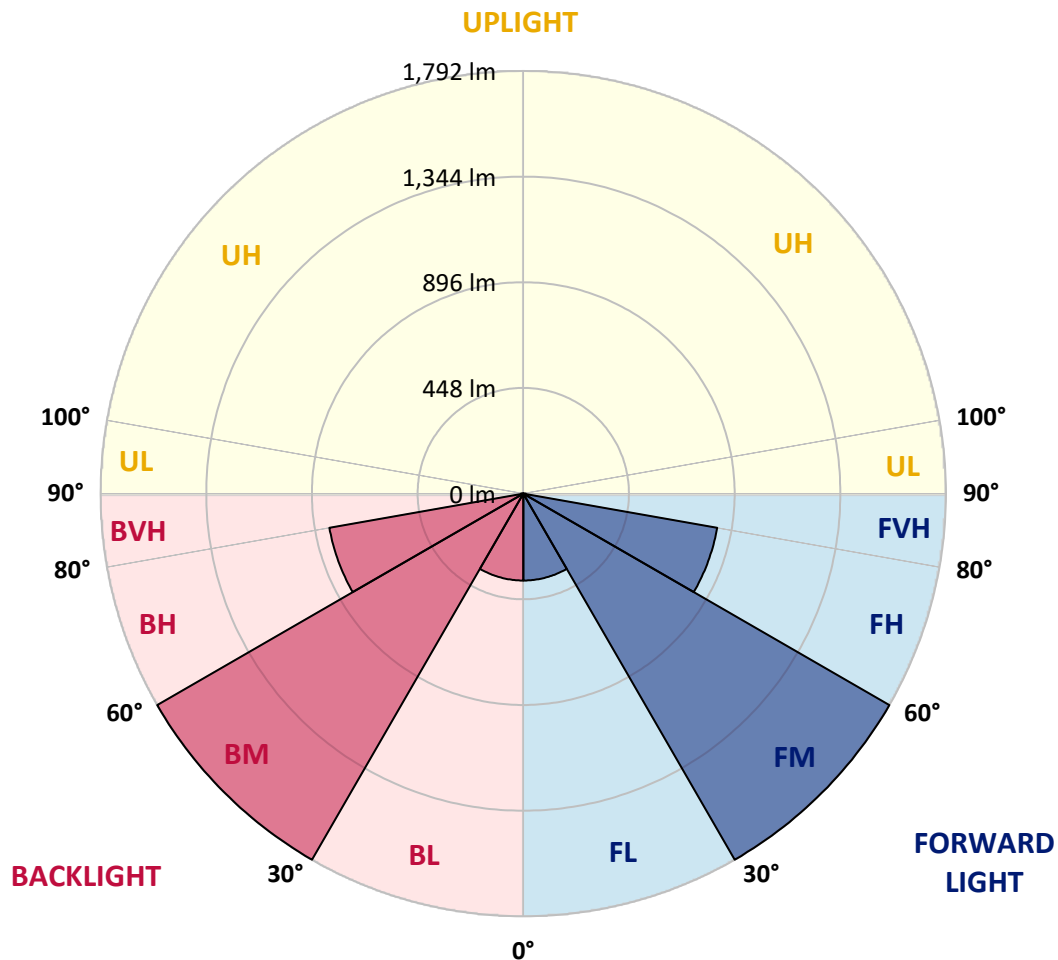
CATALOG NUMBER: GALN-SA1B-750-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 368.2 | 6.1 | | | |
| FM (30°-60°) | 1791.6 | 29.8 | | | |
| FH (60°-80°) | 834.5 | 13.9 | | | G1/1800 |
| FVH (80°-90°) | 10.2 | 0.2 | | | G1/100 |
| BL (0°-30°) | 368.2 | 6.1 | B1/500 | | |
| BM (30°-60°) | 1791.6 | 29.8 | B2/2500 | | |
| BH (60°-80°) | 834.5 | 13.9 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 10.2 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 726.3 | 726.3 | 726.3 | 726.3 | 726.3 | 726.3 | 726.3 | 726.3 | 726.3 | 726.3 | 726.3 |
| 2.5° | 729.2 | 730.7 | 729.5 | 729.2 | 728.8 | 728.8 | 728.8 | 729.2 | 730.4 | 731.4 | 730.7 |
| 5° | 738.4 | 739.7 | 739.0 | 738.7 | 738.4 | 738.7 | 738.1 | 737.7 | 738.7 | 738.7 | 738.4 |
| 7.5° | 749.8 | 751.4 | 750.8 | 751.4 | 751.8 | 752.1 | 750.5 | 749.2 | 748.9 | 749.8 | 749.2 |
| 10° | 765.4 | 766.7 | 767.0 | 767.3 | 768.0 | 767.7 | 765.8 | 763.5 | 763.2 | 762.9 | 762.6 |
| 12.5° | 782.9 | 783.9 | 784.2 | 785.5 | 786.4 | 786.8 | 784.5 | 782.6 | 779.4 | 780.1 | 778.8 |
| 15° | 802.7 | 804.6 | 804.3 | 806.2 | 808.7 | 809.4 | 807.1 | 803.9 | 801.1 | 799.5 | 798.5 |
| 17.5° | 826.9 | 828.1 | 827.5 | 829.4 | 832.6 | 834.2 | 832.3 | 828.1 | 825.3 | 821.8 | 819.9 |
| 20° | 855.5 | 857.7 | 858.4 | 858.4 | 861.2 | 862.8 | 860.0 | 858.7 | 854.2 | 851.7 | 850.1 |
| 22.5° | 888.0 | 888.9 | 890.8 | 892.7 | 895.6 | 895.0 | 894.0 | 892.1 | 888.0 | 885.7 | 883.2 |
| 25° | 924.6 | 925.5 | 930.3 | 934.4 | 935.4 | 934.8 | 933.5 | 932.5 | 928.7 | 923.6 | 921.7 |
| 27.5° | 967.2 | 969.1 | 975.5 | 979.3 | 979.3 | 979.6 | 977.1 | 980.3 | 972.0 | 965.9 | 965.3 |
| 30° | 1020.7 | 1022.0 | 1027.4 | 1031.2 | 1029.3 | 1027.7 | 1027.1 | 1030.2 | 1021.3 | 1010.5 | 1008.0 |
| 32.5° | 1073.5 | 1078.0 | 1082.7 | 1091.0 | 1084.3 | 1081.5 | 1080.8 | 1083.1 | 1072.9 | 1060.8 | 1057.3 |
| 35° | 1130.2 | 1133.4 | 1142.3 | 1149.3 | 1143.2 | 1136.5 | 1139.4 | 1146.4 | 1134.3 | 1118.1 | 1117.4 |
| 37.5° | 1192.9 | 1195.7 | 1207.2 | 1214.5 | 1210.1 | 1198.6 | 1203.4 | 1211.6 | 1199.6 | 1179.5 | 1175.4 |
| 40° | 1258.1 | 1264.2 | 1278.5 | 1286.1 | 1278.8 | 1263.5 | 1272.4 | 1281.3 | 1270.5 | 1247.3 | 1238.1 |
| 42.5° | 1331.3 | 1340.9 | 1361.6 | 1365.4 | 1351.4 | 1330.7 | 1346.3 | 1360.6 | 1353.0 | 1326.2 | 1322.7 |
| 45° | 1416.9 | 1422.7 | 1448.1 | 1456.4 | 1437.0 | 1411.2 | 1430.6 | 1456.7 | 1451.0 | 1420.1 | 1413.4 |
| 47.5° | 1512.7 | 1518.1 | 1544.6 | 1557.0 | 1532.5 | 1497.8 | 1532.8 | 1566.8 | 1563.3 | 1530.2 | 1527.1 |
| 50° | 1626.0 | 1627.3 | 1663.9 | 1677.9 | 1653.4 | 1623.5 | 1654.7 | 1697.0 | 1683.0 | 1640.7 | 1640.0 |
| 52.5° | 1750.2 | 1751.7 | 1797.9 | 1825.0 | 1811.3 | 1777.5 | 1814.4 | 1840.2 | 1804.6 | 1749.2 | 1745.1 |
| 55° | 1857.7 | 1865.7 | 1928.7 | 2000.6 | 2019.4 | 1994.9 | 2006.0 | 1994.0 | 1906.1 | 1828.5 | 1816.4 |
| 57.5° | 1901.7 | 1917.2 | 2013.0 | 2147.4 | 2269.6 | 2305.9 | 2219.9 | 2104.7 | 1946.5 | 1836.7 | 1825.0 |
| 60° | 1794.4 | 1811.3 | 1959.9 | 2214.8 | 2526.7 | 2684.3 | 2442.7 | 2123.5 | 1854.6 | 1700.2 | 1681.7 |
| 62.5° | 1437.0 | 1441.8 | 1660.4 | 2056.0 | 2676.6 | 3084.7 | 2536.6 | 1963.4 | 1586.9 | 1377.1 | 1369.8 |
| 64° | 1034.1 | 1083.1 | 1314.8 | 1802.7 | 2611.1 | 3237.1 | 2482.5 | 1739.0 | 1289.0 | 1076.7 | 1042.3 |
| 65° | 773.4 | 786.8 | 1059.8 | 1539.5 | 2495.5 | 3225.7 | 2377.5 | 1524.5 | 1067.5 | 824.0 | 785.8 |
| 67.5° | 292.2 | 293.8 | 391.2 | 767.3 | 1776.6 | 2775.3 | 1814.4 | 829.4 | 449.7 | 325.3 | 313.5 |
| 70° | 121.3 | 123.5 | 143.5 | 258.1 | 763.5 | 1782.0 | 874.9 | 299.2 | 164.5 | 133.4 | 131.4 |
| 72.5° | 88.8 | 90.1 | 96.1 | 114.6 | 234.9 | 731.7 | 287.7 | 127.0 | 96.4 | 86.3 | 85.3 |
| 75° | 69.7 | 70.3 | 74.8 | 84.3 | 109.5 | 202.7 | 119.7 | 87.2 | 73.5 | 66.2 | 65.6 |
| 77.5° | 53.2 | 54.7 | 57.9 | 64.3 | 73.5 | 96.1 | 79.2 | 65.2 | 56.7 | 50.6 | 49.6 |
| 80° | 36.6 | 38.5 | 44.6 | 47.1 | 49.3 | 62.4 | 54.1 | 49.3 | 44.2 | 36.9 | 34.7 |
| 82.5° | 22.6 | 23.9 | 29.9 | 32.1 | 31.2 | 35.0 | 34.7 | 35.3 | 31.5 | 22.9 | 21.3 |
| 85° | 11.8 | 12.4 | 16.2 | 16.9 | 15.6 | 14.3 | 17.8 | 20.7 | 19.4 | 13.0 | 12.7 |
| 87.5° | 2.5 | 2.9 | 3.5 | 3.2 | 3.5 | 3.5 | 4.5 | 6.7 | 7.0 | 4.5 | 4.1 |
| 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)