

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: P451192

Luminaire Tested: **GLAN-SA2A-740-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451192
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2A-740-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9180 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

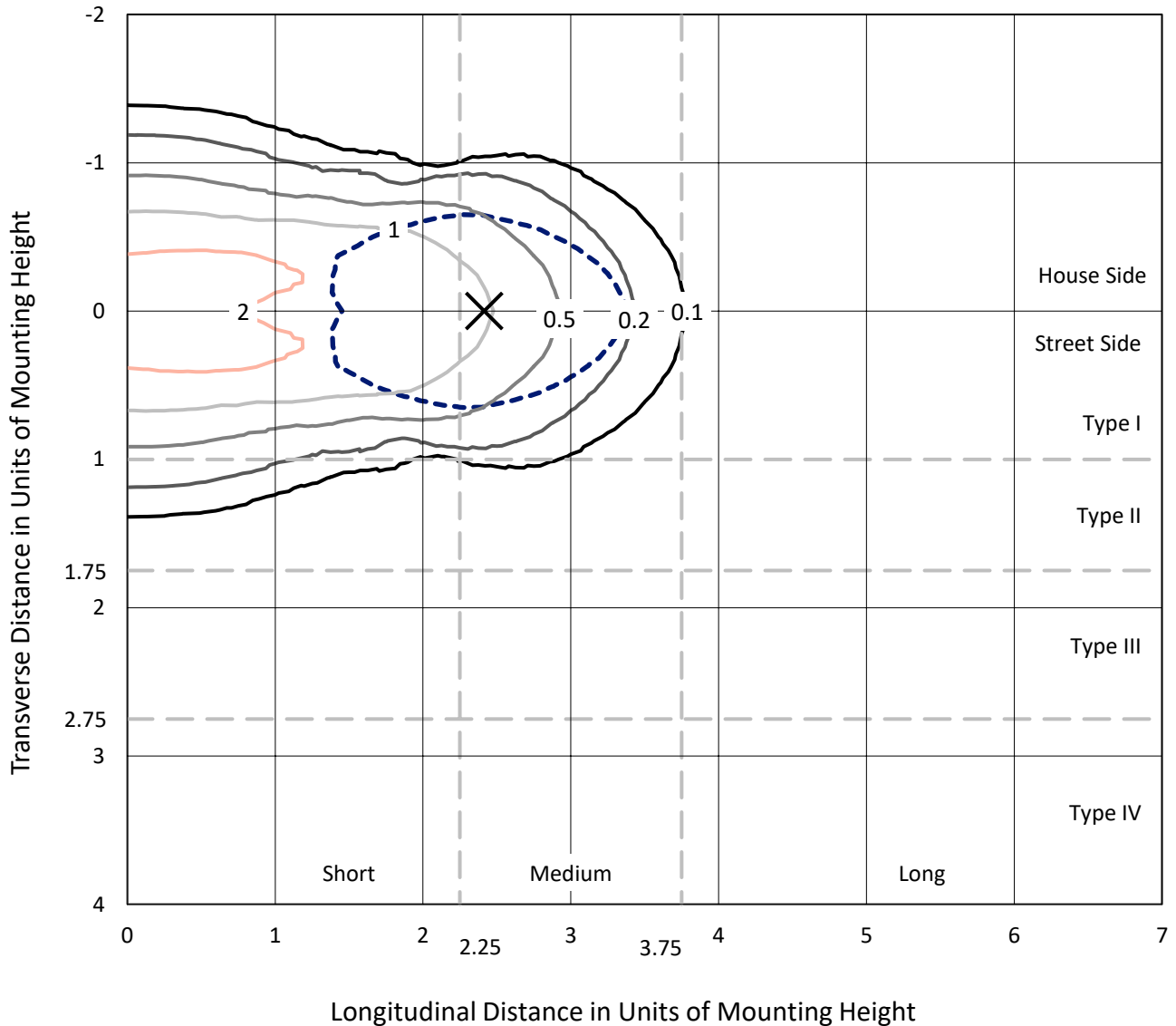
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

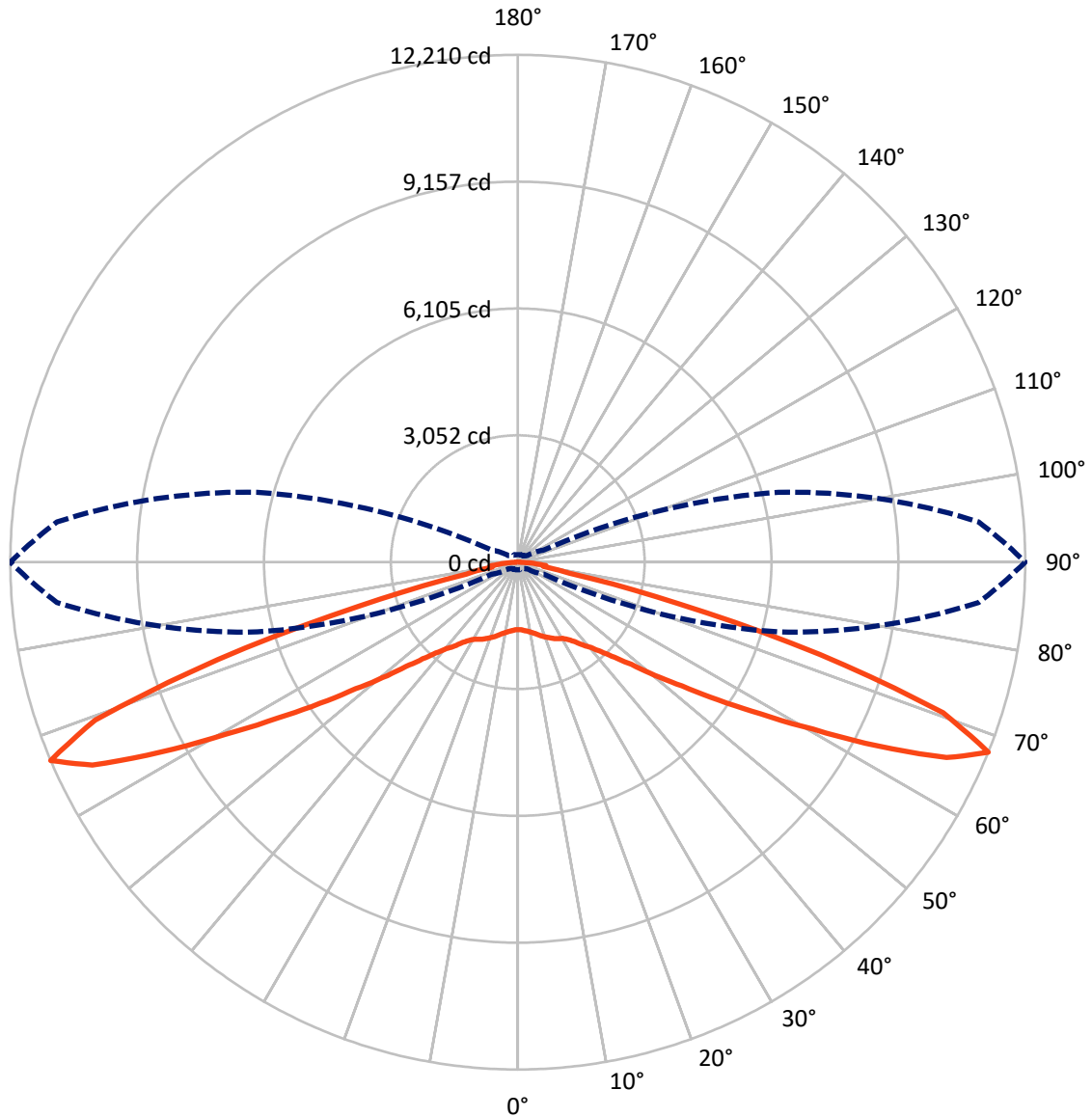
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4590.0 | 0.0 | 4590.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4590.0 | 0.0 | 4590.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 9180.0 | 0.0 | 9180.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 162.0 | 1.8 |
| 10°-20° | 518.4 | 5.6 |
| 20°-30° | 867.7 | 9.5 |
| 30°-40° | 1175.5 | 12.8 |
| 40°-50° | 1488.9 | 16.2 |
| 50°-60° | 1860.0 | 20.3 |
| 60°-70° | 2186.4 | 23.8 |
| 70°-80° | 836.4 | 9.1 |
| 80°-90° | 84.7 | 0.9 |
| 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° | 9180.0 | 100.0 |
| 0°-180° | 9180.0 | 100.0 |

Coefficient of Utilization



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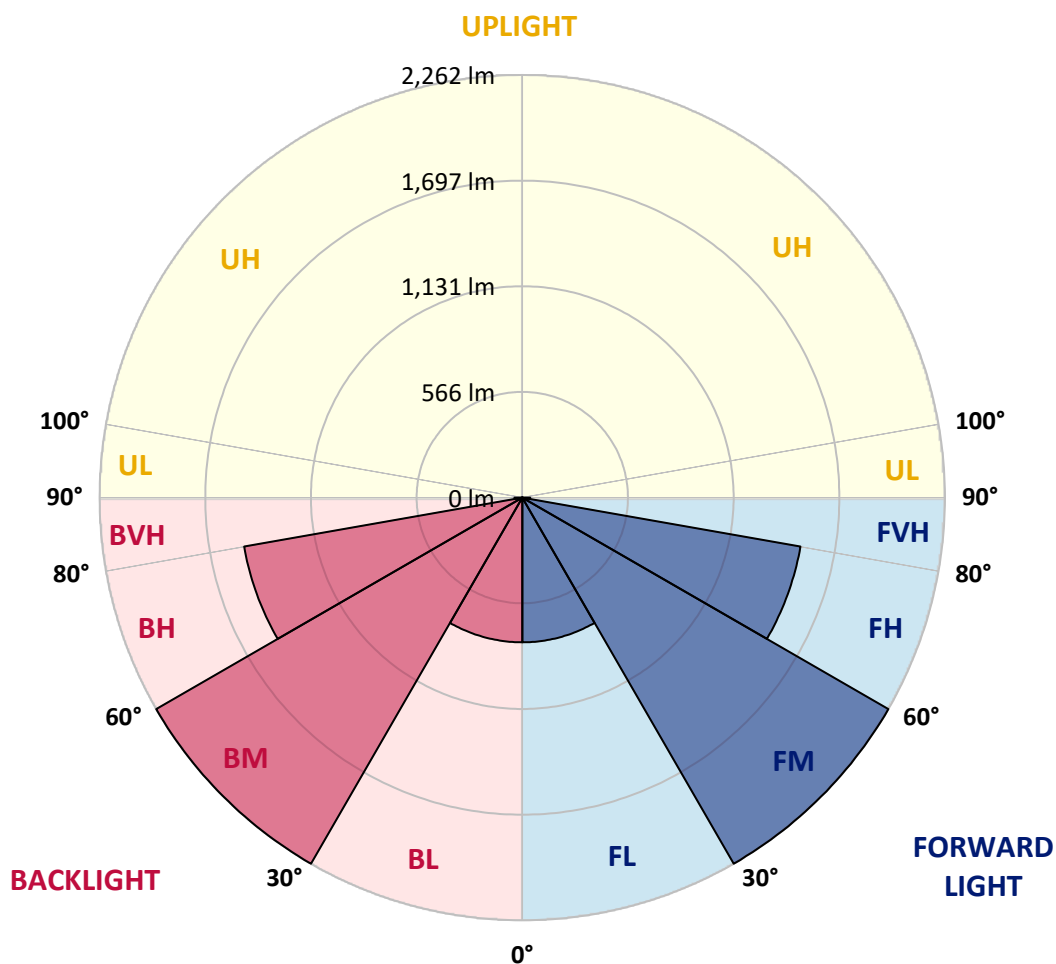
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 774.0 | 8.4 | | | |
| FM (30°-60°) | 2262.2 | 24.6 | | | |
| FH (60°-80°) | 1511.4 | 16.5 | | | G1/1800 |
| FVH (80°-90°) | 42.4 | 0.5 | | | G1/100 |
| BL (0°-30°) | 774.0 | 8.4 | B2/1000 | | |
| BM (30°-60°) | 2262.2 | 24.6 | B2/2500 | | |
| BH (60°-80°) | 1511.4 | 16.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 42.4 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0° | 1625.1 | 1625.1 | 1625.1 | 1625.1 | 1625.1 | 1625.1 | 1625.1 | 1625.1 | 1625.1 | 1625.1 | 1625.1 |
| 2.5° | 1646.0 | 1645.0 | 1645.5 | 1645.0 | 1646.5 | 1645.5 | 1639.4 | 1634.3 | 1630.2 | 1630.7 | 1629.2 |
| 5° | 1681.1 | 1681.6 | 1682.1 | 1679.5 | 1683.1 | 1681.1 | 1671.4 | 1663.3 | 1655.1 | 1652.1 | 1651.1 |
| 7.5° | 1710.0 | 1712.6 | 1714.1 | 1716.6 | 1722.7 | 1722.7 | 1717.7 | 1706.0 | 1688.2 | 1678.0 | 1677.5 |
| 10° | 1739.0 | 1741.0 | 1745.6 | 1753.8 | 1763.9 | 1773.6 | 1771.5 | 1755.8 | 1732.9 | 1715.6 | 1711.6 |
| 12.5° | 1749.2 | 1751.7 | 1767.0 | 1790.4 | 1813.2 | 1832.0 | 1832.0 | 1819.3 | 1789.8 | 1763.4 | 1755.8 |
| 15° | 1713.6 | 1718.2 | 1745.6 | 1795.4 | 1855.4 | 1896.6 | 1905.7 | 1888.0 | 1856.4 | 1815.8 | 1806.6 |
| 17.5° | 1642.9 | 1654.1 | 1694.3 | 1768.0 | 1867.6 | 1953.0 | 1979.5 | 1970.8 | 1930.1 | 1878.3 | 1867.6 |
| 20° | 1567.2 | 1579.4 | 1622.1 | 1719.7 | 1857.5 | 1986.1 | 2062.8 | 2064.9 | 2014.5 | 1939.3 | 1923.5 |
| 22.5° | 1483.8 | 1493.0 | 1547.9 | 1662.3 | 1827.0 | 1993.7 | 2134.5 | 2169.6 | 2101.5 | 2000.3 | 1977.9 |
| 25° | 1390.3 | 1400.5 | 1457.9 | 1581.4 | 1769.5 | 1985.0 | 2200.1 | 2277.3 | 2192.4 | 2065.4 | 2036.9 |
| 27.5° | 1300.8 | 1304.9 | 1366.4 | 1492.0 | 1693.8 | 1962.7 | 2248.4 | 2376.5 | 2293.1 | 2119.2 | 2083.2 |
| 30° | 1214.9 | 1224.6 | 1279.0 | 1403.0 | 1606.8 | 1919.0 | 2290.0 | 2489.3 | 2401.4 | 2175.7 | 2129.4 |
| 32.5° | 1123.9 | 1135.6 | 1194.6 | 1320.1 | 1519.9 | 1853.4 | 2315.5 | 2612.8 | 2552.3 | 2267.2 | 2217.9 |
| 35° | 1036.5 | 1044.1 | 1103.6 | 1225.6 | 1435.0 | 1777.1 | 2320.0 | 2752.1 | 2747.0 | 2405.9 | 2340.4 |
| 37.5° | 947.0 | 958.2 | 1018.2 | 1135.1 | 1345.1 | 1696.3 | 2297.2 | 2900.0 | 2981.9 | 2598.6 | 2527.9 |
| 40° | 861.1 | 870.8 | 929.7 | 1047.7 | 1242.9 | 1597.7 | 2242.8 | 3035.3 | 3255.9 | 2796.9 | 2696.7 |
| 42.5° | 767.6 | 770.1 | 834.7 | 954.7 | 1142.7 | 1483.3 | 2164.5 | 3155.7 | 3561.4 | 3062.7 | 2938.2 |
| 45° | 661.3 | 668.0 | 727.9 | 845.9 | 1027.9 | 1355.2 | 2058.2 | 3255.4 | 3948.7 | 3431.3 | 3261.5 |
| 47.5° | 555.1 | 560.7 | 615.6 | 732.0 | 902.3 | 1208.3 | 1894.6 | 3342.8 | 4346.3 | 3899.4 | 3676.8 |
| 50° | 451.4 | 454.5 | 499.2 | 602.4 | 761.0 | 1053.8 | 1691.7 | 3370.8 | 4795.6 | 4562.3 | 4278.1 |
| 52.5° | 356.9 | 361.4 | 395.5 | 476.3 | 610.0 | 871.3 | 1472.6 | 3301.6 | 5320.2 | 5348.2 | 4947.6 |
| 55° | 289.2 | 290.8 | 316.2 | 375.7 | 476.8 | 680.2 | 1208.3 | 3109.0 | 5884.5 | 6355.2 | 5844.3 |
| 57.5° | 249.1 | 250.1 | 264.3 | 297.4 | 367.0 | 512.9 | 937.4 | 2744.5 | 6391.3 | 7535.0 | 6878.3 |
| 60° | 226.2 | 226.7 | 234.9 | 254.2 | 290.8 | 393.5 | 671.5 | 2230.1 | 6891.5 | 8848.1 | 8163.3 |
| 62.5° | 212.0 | 212.0 | 217.6 | 228.2 | 246.0 | 302.0 | 486.5 | 1608.9 | 7234.1 | 10180.4 | 9747.3 |
| 65° | 198.3 | 198.3 | 202.3 | 209.9 | 219.6 | 247.1 | 359.4 | 1049.2 | 7225.5 | 11150.8 | 11340.4 |
| 67.5° | 182.5 | 182.5 | 185.5 | 193.2 | 198.8 | 212.5 | 277.6 | 687.3 | 6490.4 | 11129.5 | 12209.7 |
| 70° | 163.7 | 163.7 | 167.8 | 174.4 | 178.9 | 187.6 | 219.1 | 470.2 | 4768.2 | 9502.8 | 10858.5 |
| 72.5° | 144.9 | 145.4 | 147.9 | 154.5 | 158.1 | 163.2 | 182.0 | 329.4 | 2925.0 | 6470.6 | 7592.5 |
| 75° | 124.0 | 125.1 | 127.6 | 134.2 | 137.3 | 139.3 | 153.5 | 234.9 | 1479.8 | 3488.7 | 3972.1 |
| 77.5° | 100.1 | 102.2 | 103.7 | 110.8 | 112.9 | 115.9 | 126.6 | 169.8 | 649.7 | 1253.6 | 1264.7 |
| 80° | 73.2 | 75.7 | 80.3 | 86.9 | 88.5 | 90.5 | 96.6 | 120.5 | 294.3 | 572.4 | 621.7 |
| 82.5° | 53.9 | 57.4 | 51.9 | 60.5 | 60.5 | 58.0 | 68.1 | 80.8 | 135.2 | 566.8 | 678.1 |
| 85° | 29.5 | 30.0 | 26.9 | 31.0 | 33.0 | 32.5 | 36.1 | 39.7 | 65.6 | 378.2 | 389.9 |
| 87.5° | 7.1 | 7.6 | 8.1 | 9.7 | 11.7 | 11.7 | 12.7 | 11.2 | 21.4 | 122.5 | 70.2 |
| 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)