

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: P450833

Luminaire Tested: **GLAN-SA1C-830-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450833
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1C-830-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5832 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

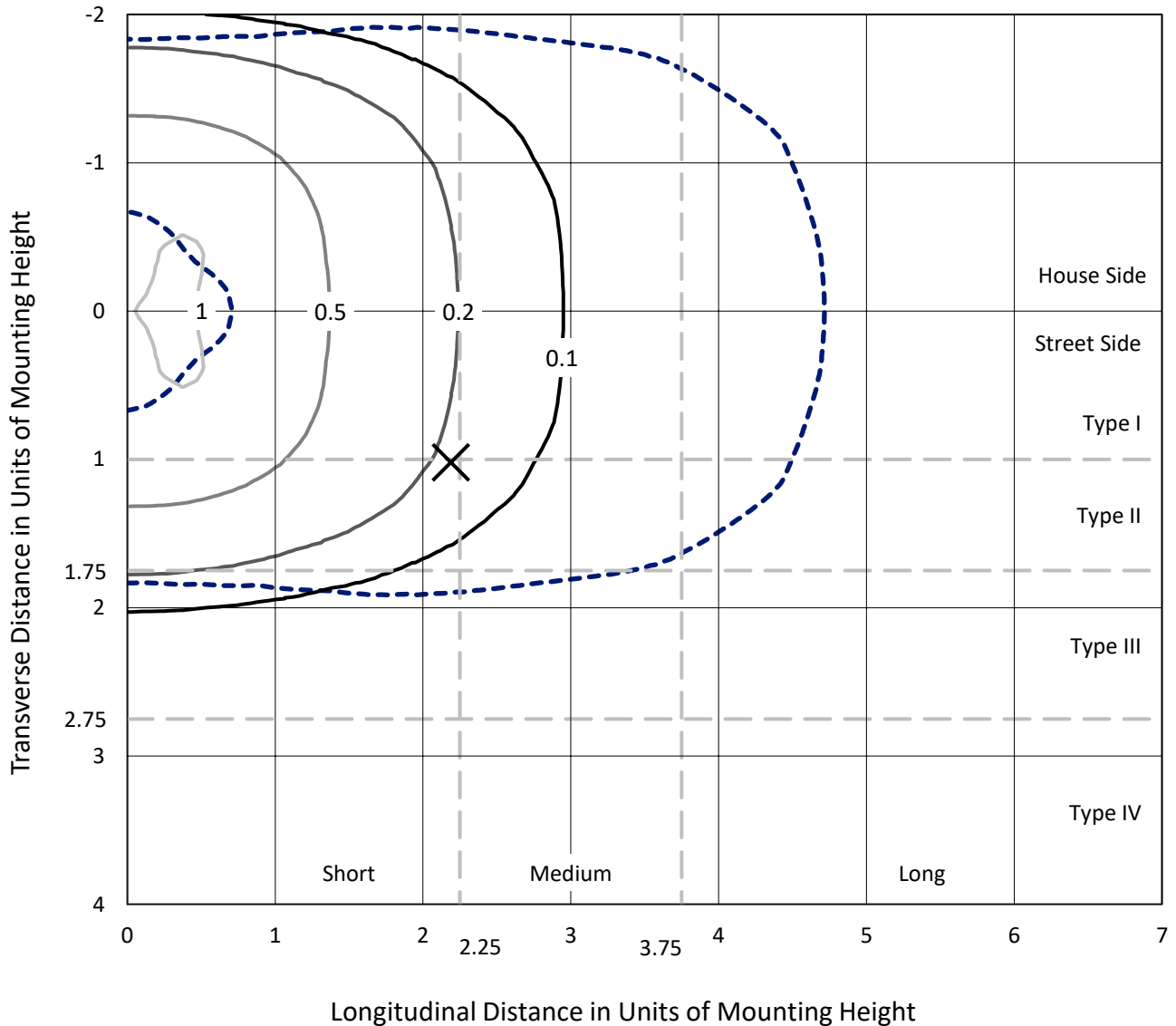
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

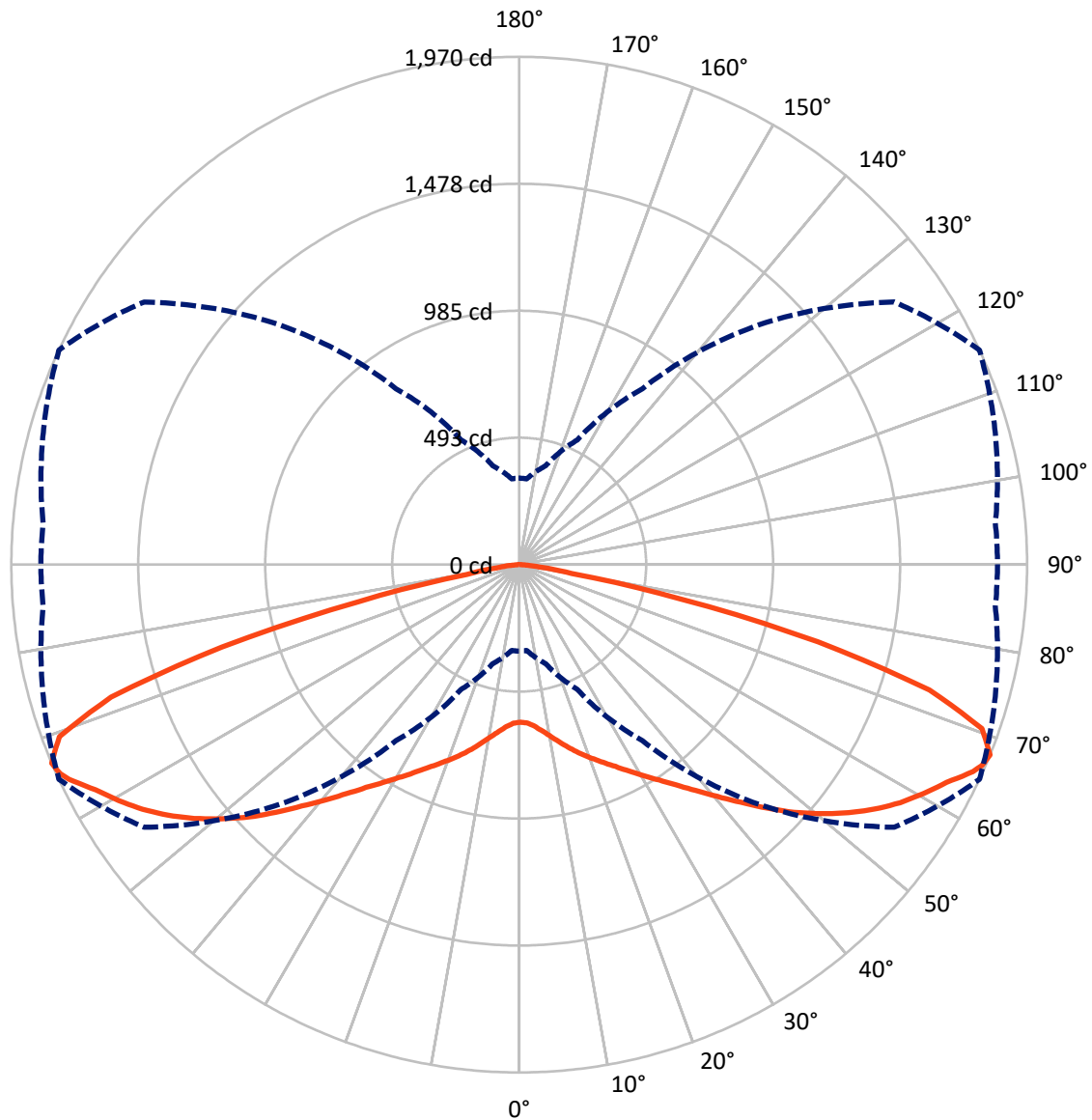
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2916.0 | 0.0 | 2916.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2916.0 | 0.0 | 2916.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 5832.0 | 0.0 | 5832.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 60.2 | 1.0 |
| 10°-20° | 201.6 | 3.5 |
| 20°-30° | 394.4 | 6.8 |
| 30°-40° | 670.9 | 11.5 |
| 40°-50° | 1061.8 | 18.2 |
| 50°-60° | 1407.9 | 24.1 |
| 60°-70° | 1328.1 | 22.8 |
| 70°-80° | 656.5 | 11.3 |
| 80°-90° | 50.6 | 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° | 5832.0 | 100.0 |
| 0°-180° | 5832.0 | 100.0 |

Coefficient of Utilization



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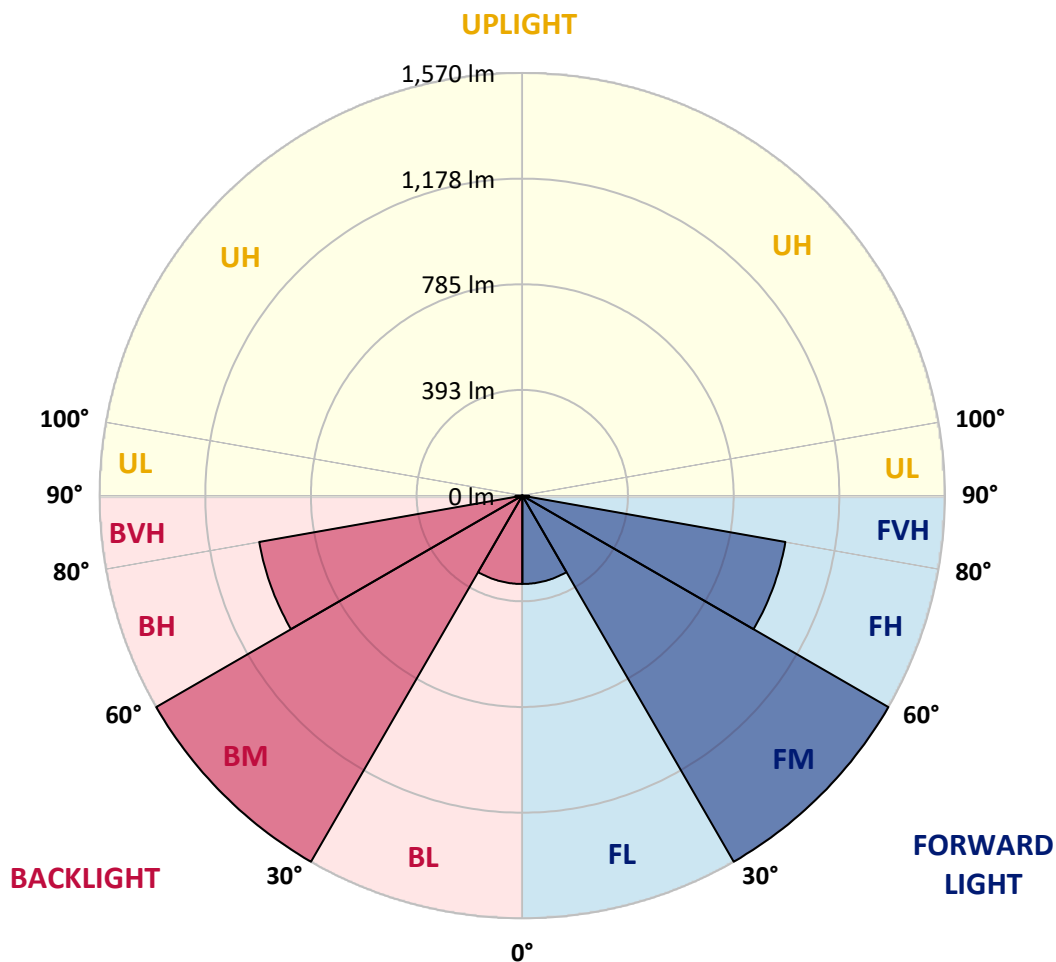
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 328.2 | 5.6 | | | |
| FM (30°-60°) | 1570.2 | 26.9 | | | |
| FH (60°-80°) | 992.3 | 17.0 | | | G1/1800 |
| FVH (80°-90°) | 25.3 | 0.4 | | | G1/100 |
| BL (0°-30°) | 328.2 | 5.6 | B1/500 | | |
| BM (30°-60°) | 1570.2 | 26.9 | B2/2500 | | |
| BH (60°-80°) | 992.3 | 17.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 25.3 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 610.9 | 610.9 | 610.9 | 610.9 | 610.9 | 610.9 | 610.9 | 610.9 | 610.9 | 610.9 | 610.9 |
| 2.5° | 607.7 | 608.4 | 609.0 | 609.9 | 611.2 | 613.0 | 614.3 | 615.2 | 617.7 | 618.0 | 617.7 |
| 5° | 605.5 | 606.2 | 607.7 | 610.5 | 614.6 | 620.2 | 624.6 | 629.9 | 634.0 | 636.8 | 636.2 |
| 7.5° | 605.2 | 606.5 | 609.0 | 614.9 | 622.7 | 632.4 | 642.4 | 651.5 | 659.3 | 665.5 | 664.6 |
| 10° | 610.2 | 611.8 | 615.8 | 624.6 | 636.8 | 650.8 | 664.9 | 678.3 | 689.6 | 697.7 | 700.5 |
| 12.5° | 618.7 | 619.9 | 627.4 | 640.5 | 658.0 | 675.5 | 691.5 | 708.0 | 723.6 | 737.4 | 737.4 |
| 15° | 633.3 | 635.5 | 644.9 | 664.0 | 685.5 | 705.8 | 722.1 | 739.6 | 756.5 | 772.1 | 776.8 |
| 17.5° | 653.7 | 656.8 | 670.8 | 695.2 | 722.7 | 741.5 | 756.8 | 771.1 | 785.8 | 800.8 | 803.0 |
| 20° | 681.5 | 684.6 | 703.3 | 732.7 | 765.2 | 787.7 | 798.0 | 801.4 | 808.6 | 823.0 | 824.9 |
| 22.5° | 719.3 | 722.4 | 743.3 | 776.5 | 812.7 | 837.1 | 841.4 | 833.3 | 831.4 | 842.7 | 843.9 |
| 25° | 762.1 | 764.9 | 789.0 | 824.6 | 862.1 | 888.6 | 887.4 | 867.4 | 856.1 | 863.0 | 864.9 |
| 27.5° | 810.2 | 814.3 | 838.6 | 875.5 | 916.1 | 939.6 | 935.8 | 906.7 | 882.7 | 881.4 | 882.1 |
| 30° | 871.8 | 876.1 | 899.2 | 934.6 | 974.5 | 996.1 | 988.3 | 949.2 | 912.1 | 899.6 | 899.6 |
| 32.5° | 936.7 | 947.7 | 971.1 | 1008.0 | 1039.2 | 1054.8 | 1043.0 | 996.1 | 946.7 | 929.2 | 928.3 |
| 35° | 1021.4 | 1027.4 | 1050.5 | 1086.4 | 1109.8 | 1122.0 | 1099.2 | 1048.9 | 992.0 | 971.4 | 968.6 |
| 37.5° | 1104.2 | 1109.2 | 1136.1 | 1170.5 | 1198.9 | 1198.3 | 1167.3 | 1111.7 | 1048.3 | 1025.2 | 1023.3 |
| 40° | 1188.9 | 1194.2 | 1224.8 | 1256.4 | 1284.8 | 1282.3 | 1244.8 | 1182.6 | 1115.2 | 1089.2 | 1094.2 |
| 42.5° | 1262.3 | 1268.3 | 1302.9 | 1347.9 | 1373.6 | 1372.9 | 1329.5 | 1259.5 | 1189.2 | 1166.1 | 1170.5 |
| 45° | 1329.2 | 1334.5 | 1374.8 | 1426.4 | 1463.9 | 1468.5 | 1421.0 | 1347.0 | 1274.8 | 1245.1 | 1246.4 |
| 47.5° | 1376.4 | 1386.4 | 1428.5 | 1487.6 | 1538.5 | 1555.1 | 1508.5 | 1436.0 | 1352.9 | 1322.0 | 1323.9 |
| 50° | 1412.3 | 1418.5 | 1464.5 | 1531.7 | 1596.0 | 1630.4 | 1592.9 | 1518.5 | 1431.0 | 1398.2 | 1402.6 |
| 52.5° | 1416.7 | 1424.2 | 1474.2 | 1551.7 | 1634.1 | 1686.3 | 1667.9 | 1599.1 | 1510.7 | 1477.0 | 1486.4 |
| 55° | 1381.1 | 1385.4 | 1445.1 | 1539.2 | 1649.1 | 1727.9 | 1732.6 | 1674.1 | 1586.6 | 1561.0 | 1567.3 |
| 57.5° | 1279.5 | 1290.8 | 1366.4 | 1480.7 | 1628.5 | 1750.1 | 1781.0 | 1742.3 | 1663.5 | 1638.2 | 1648.2 |
| 60° | 1113.0 | 1124.2 | 1200.1 | 1345.1 | 1550.7 | 1739.8 | 1821.0 | 1802.6 | 1733.2 | 1712.9 | 1718.2 |
| 62.5° | 872.1 | 871.1 | 965.2 | 1143.0 | 1396.1 | 1689.1 | 1850.7 | 1860.7 | 1801.9 | 1776.3 | 1784.4 |
| 65° | 565.2 | 568.0 | 659.0 | 850.5 | 1162.6 | 1560.4 | 1857.2 | 1934.7 | 1869.4 | 1830.7 | 1836.6 |
| 66° | 454.6 | 463.1 | 540.2 | 716.8 | 1043.6 | 1476.0 | 1837.6 | 1956.6 | 1890.0 | 1843.2 | 1846.0 |
| 67.5° | 335.6 | 334.0 | 397.4 | 533.7 | 833.3 | 1315.8 | 1776.0 | 1970.3 | 1913.5 | 1854.4 | 1855.7 |
| 70° | 191.5 | 191.2 | 213.7 | 293.1 | 489.9 | 926.4 | 1497.0 | 1904.4 | 1961.0 | 1895.0 | 1891.6 |
| 72.5° | 140.0 | 139.0 | 142.2 | 161.9 | 239.0 | 467.7 | 1032.7 | 1664.5 | 1936.6 | 1888.5 | 1878.8 |
| 75° | 117.5 | 116.9 | 116.2 | 118.7 | 134.0 | 211.8 | 548.0 | 1197.3 | 1680.4 | 1772.6 | 1762.6 |
| 77.5° | 95.9 | 95.9 | 96.2 | 95.6 | 96.2 | 111.5 | 227.2 | 641.8 | 1023.3 | 1142.3 | 1170.1 |
| 80° | 75.0 | 74.7 | 80.0 | 77.8 | 72.8 | 71.6 | 100.6 | 206.5 | 339.6 | 337.8 | 278.7 |
| 82.5° | 55.3 | 51.6 | 60.9 | 59.4 | 53.7 | 45.6 | 58.7 | 88.1 | 113.4 | 73.7 | 54.7 |
| 85° | 35.0 | 34.7 | 43.1 | 39.4 | 32.8 | 21.6 | 28.1 | 37.8 | 46.9 | 28.4 | 23.1 |
| 87.5° | 6.2 | 5.9 | 13.7 | 10.0 | 10.0 | 6.2 | 7.8 | 10.3 | 15.3 | 10.6 | 7.8 |
| 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)