

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: P652648

Luminaire Tested: **GLAN-SA1C-840-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652648
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: STREETWORKS
Catalog Number: GLAN-SA1C-840-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6243.6 lumens
Efficiency: N/A
Efficacy: 109.5 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

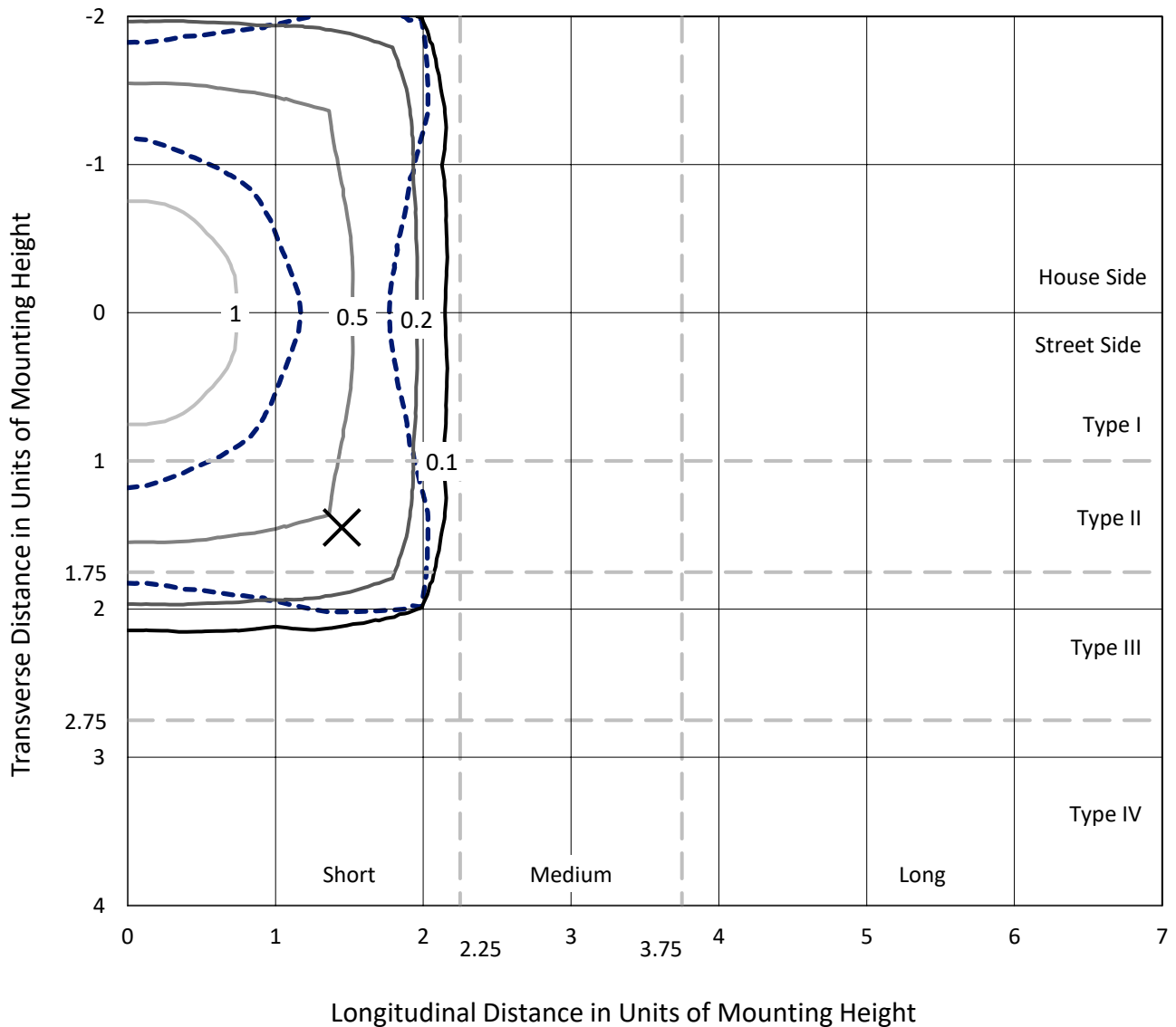
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

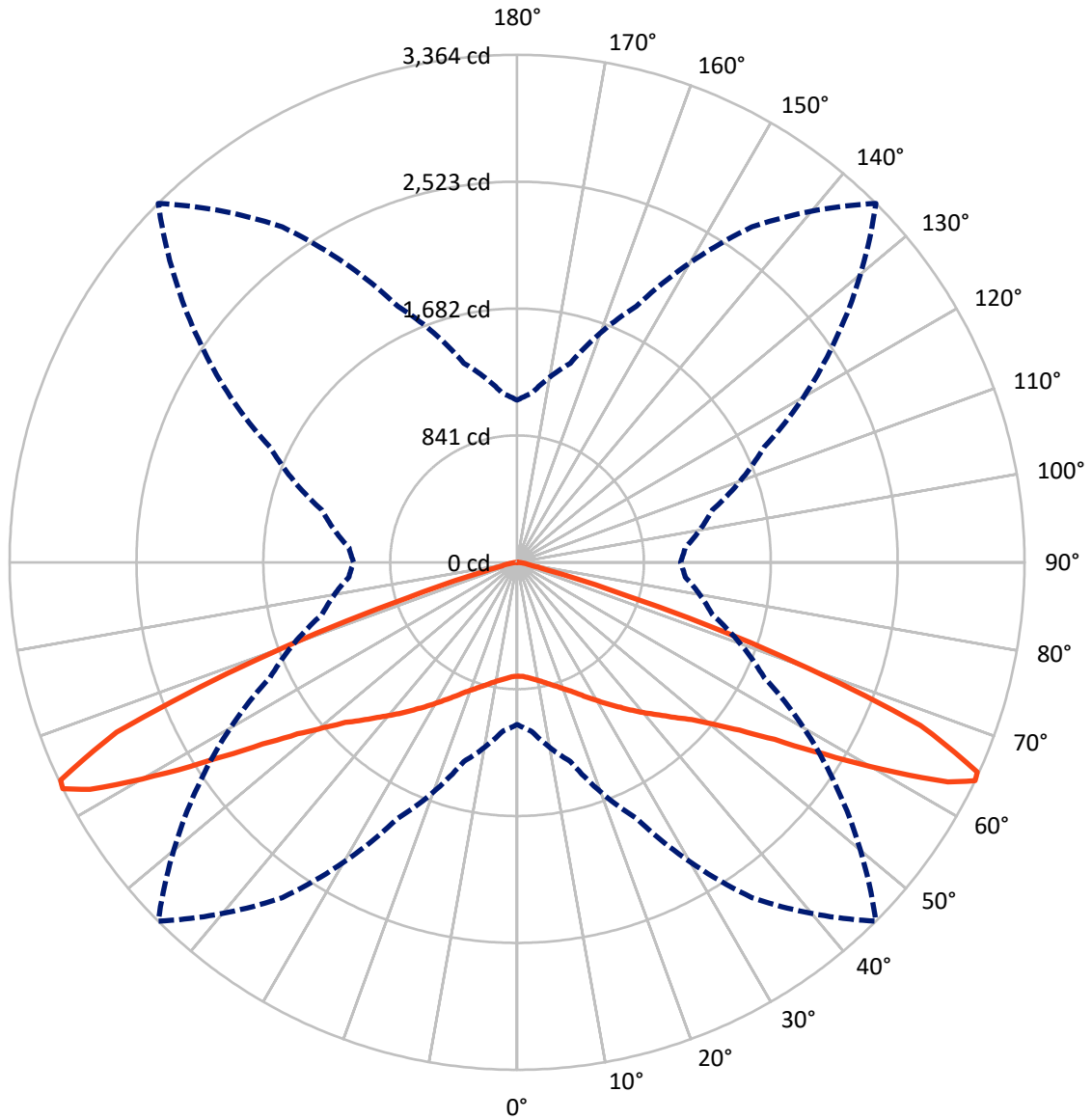
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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 | 3121.8 | 0.0 | 3121.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3121.8 | 0.0 | 3121.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 6243.6 | 0.0 | 6243.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 74.1 | 1.2 |
| 10°-20° | 239.1 | 3.8 |
| 20°-30° | 451.9 | 7.2 |
| 30°-40° | 748.4 | 12.0 |
| 40°-50° | 1168.4 | 18.7 |
| 50°-60° | 1806.3 | 28.9 |
| 60°-70° | 1557.6 | 24.9 |
| 70°-80° | 176.5 | 2.8 |
| 80°-90° | 21.1 | 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° | 6243.6 | 100.0 |
| 0°-180° | 6243.6 | 100.0 |

Coefficient of Utilization



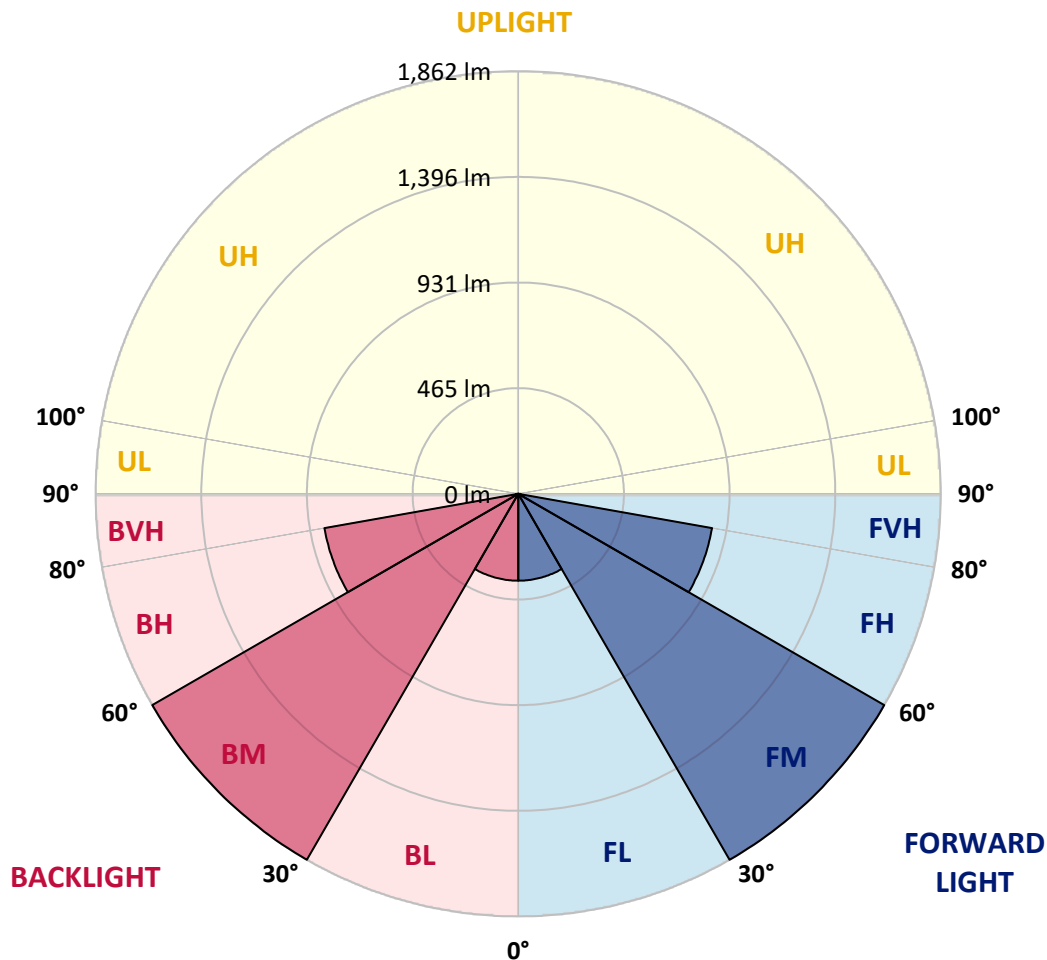
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 382.6 | 6.1 | | | |
| FM (30°-60°) | 1861.6 | 29.8 | | | |
| FH (60°-80°) | 867.0 | 13.9 | | | G1/1800 |
| FVH (80°-90°) | 10.6 | 0.2 | | | G1/100 |
| BL (0°-30°) | 382.6 | 6.1 | B1/500 | | |
| BM (30°-60°) | 1861.6 | 29.8 | B2/2500 | | |
| BH (60°-80°) | 867.0 | 13.9 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 10.6 | 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° | 754.6 | 754.6 | 754.6 | 754.6 | 754.6 | 754.6 | 754.6 | 754.6 | 754.6 | 754.6 | 754.6 |
| 2.5° | 757.7 | 759.3 | 757.9 | 757.7 | 757.3 | 757.3 | 757.3 | 757.7 | 758.9 | 759.9 | 759.3 |
| 5° | 767.2 | 768.5 | 767.8 | 767.6 | 767.2 | 767.6 | 766.9 | 766.6 | 767.6 | 767.6 | 767.2 |
| 7.5° | 779.1 | 780.8 | 780.1 | 780.8 | 781.1 | 781.5 | 779.8 | 778.4 | 778.1 | 779.1 | 778.4 |
| 10° | 795.3 | 796.7 | 796.9 | 797.3 | 797.9 | 797.6 | 795.7 | 793.3 | 793.0 | 792.6 | 792.3 |
| 12.5° | 813.5 | 814.5 | 814.8 | 816.2 | 817.1 | 817.5 | 815.2 | 813.2 | 809.9 | 810.6 | 809.2 |
| 15° | 834.0 | 836.0 | 835.7 | 837.6 | 840.3 | 840.9 | 838.6 | 835.4 | 832.3 | 830.7 | 829.7 |
| 17.5° | 859.2 | 860.4 | 859.8 | 861.8 | 865.1 | 866.7 | 864.8 | 860.4 | 857.5 | 853.9 | 851.8 |
| 20° | 888.9 | 891.2 | 891.9 | 891.9 | 894.8 | 896.5 | 893.6 | 892.2 | 887.6 | 884.9 | 883.3 |
| 22.5° | 922.7 | 923.6 | 925.6 | 927.6 | 930.6 | 929.9 | 928.9 | 927.0 | 922.7 | 920.3 | 917.7 |
| 25° | 960.7 | 961.7 | 966.6 | 970.9 | 971.9 | 971.3 | 969.9 | 968.9 | 965.0 | 959.7 | 957.6 |
| 27.5° | 1005.0 | 1006.9 | 1013.6 | 1017.5 | 1017.5 | 1017.9 | 1015.3 | 1018.5 | 1010.0 | 1003.6 | 1003.0 |
| 30° | 1060.5 | 1061.8 | 1067.5 | 1071.4 | 1069.5 | 1067.8 | 1067.1 | 1070.4 | 1061.2 | 1050.0 | 1047.3 |
| 32.5° | 1115.4 | 1120.0 | 1125.0 | 1133.6 | 1126.7 | 1123.7 | 1123.1 | 1125.3 | 1114.7 | 1102.2 | 1098.6 |
| 35° | 1174.3 | 1177.6 | 1186.8 | 1194.1 | 1187.8 | 1180.9 | 1183.9 | 1191.2 | 1178.6 | 1161.8 | 1161.1 |
| 37.5° | 1239.5 | 1242.4 | 1254.4 | 1261.9 | 1257.3 | 1245.4 | 1250.3 | 1259.0 | 1246.4 | 1225.6 | 1221.2 |
| 40° | 1307.3 | 1313.5 | 1328.4 | 1336.3 | 1328.7 | 1312.9 | 1322.1 | 1331.4 | 1320.1 | 1296.0 | 1286.4 |
| 42.5° | 1383.3 | 1393.2 | 1414.7 | 1418.7 | 1404.1 | 1382.6 | 1398.8 | 1413.7 | 1405.8 | 1378.0 | 1374.4 |
| 45° | 1472.3 | 1478.2 | 1504.6 | 1513.2 | 1493.1 | 1466.3 | 1486.5 | 1513.5 | 1507.7 | 1475.5 | 1468.6 |
| 47.5° | 1571.7 | 1577.4 | 1604.9 | 1617.7 | 1592.3 | 1556.3 | 1592.6 | 1628.0 | 1624.4 | 1590.0 | 1586.6 |
| 50° | 1689.5 | 1690.8 | 1728.8 | 1743.4 | 1717.9 | 1686.9 | 1719.3 | 1763.2 | 1748.7 | 1704.7 | 1704.0 |
| 52.5° | 1818.5 | 1820.2 | 1868.1 | 1896.2 | 1882.0 | 1846.9 | 1885.3 | 1912.1 | 1875.0 | 1817.5 | 1813.2 |
| 55° | 1930.3 | 1938.5 | 2004.0 | 2078.7 | 2098.2 | 2072.8 | 2084.3 | 2071.8 | 1980.6 | 1899.8 | 1887.3 |
| 57.5° | 1975.9 | 1992.1 | 2091.7 | 2231.2 | 2358.2 | 2395.8 | 2306.6 | 2186.9 | 2022.5 | 1908.4 | 1896.2 |
| 60° | 1864.4 | 1882.0 | 2036.4 | 2301.3 | 2625.3 | 2789.1 | 2538.1 | 2206.4 | 1927.0 | 1766.6 | 1747.3 |
| 62.5° | 1493.1 | 1498.1 | 1725.2 | 2136.3 | 2781.1 | 3205.1 | 2635.6 | 2040.0 | 1648.9 | 1430.9 | 1423.3 |
| 64° | 1074.5 | 1125.3 | 1366.1 | 1873.1 | 2713.0 | 3363.5 | 2579.4 | 1806.9 | 1339.3 | 1118.7 | 1083.0 |
| 65° | 803.6 | 817.5 | 1101.2 | 1599.6 | 2593.0 | 3351.6 | 2470.3 | 1584.0 | 1109.1 | 856.1 | 816.4 |
| 67.5° | 303.6 | 305.2 | 406.5 | 797.3 | 1845.9 | 2883.6 | 1885.3 | 861.8 | 467.3 | 338.0 | 325.7 |
| 70° | 126.0 | 128.3 | 149.1 | 268.2 | 793.3 | 1851.5 | 909.0 | 310.8 | 171.0 | 138.6 | 136.6 |
| 72.5° | 92.3 | 93.6 | 99.9 | 119.1 | 244.1 | 760.3 | 299.0 | 132.0 | 100.2 | 89.7 | 88.6 |
| 75° | 72.4 | 73.1 | 77.7 | 87.6 | 113.8 | 210.7 | 124.3 | 90.6 | 76.4 | 68.8 | 68.1 |
| 77.5° | 55.3 | 56.9 | 60.2 | 66.8 | 76.4 | 99.9 | 82.3 | 67.8 | 58.9 | 52.6 | 51.6 |
| 80° | 38.0 | 40.0 | 46.3 | 48.9 | 51.2 | 64.8 | 56.2 | 51.2 | 46.0 | 38.3 | 36.1 |
| 82.5° | 23.5 | 24.8 | 31.1 | 33.4 | 32.4 | 36.4 | 36.1 | 36.7 | 32.7 | 23.8 | 22.1 |
| 85° | 12.2 | 12.9 | 16.9 | 17.5 | 16.2 | 14.9 | 18.5 | 21.5 | 20.2 | 13.5 | 13.2 |
| 87.5° | 2.6 | 2.9 | 3.6 | 3.3 | 3.6 | 3.6 | 4.6 | 7.0 | 7.3 | 4.6 | 4.3 |
| 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)