

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: P531992

Luminaire Tested: **GALN-SA7B-750-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531992
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-750-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34983 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

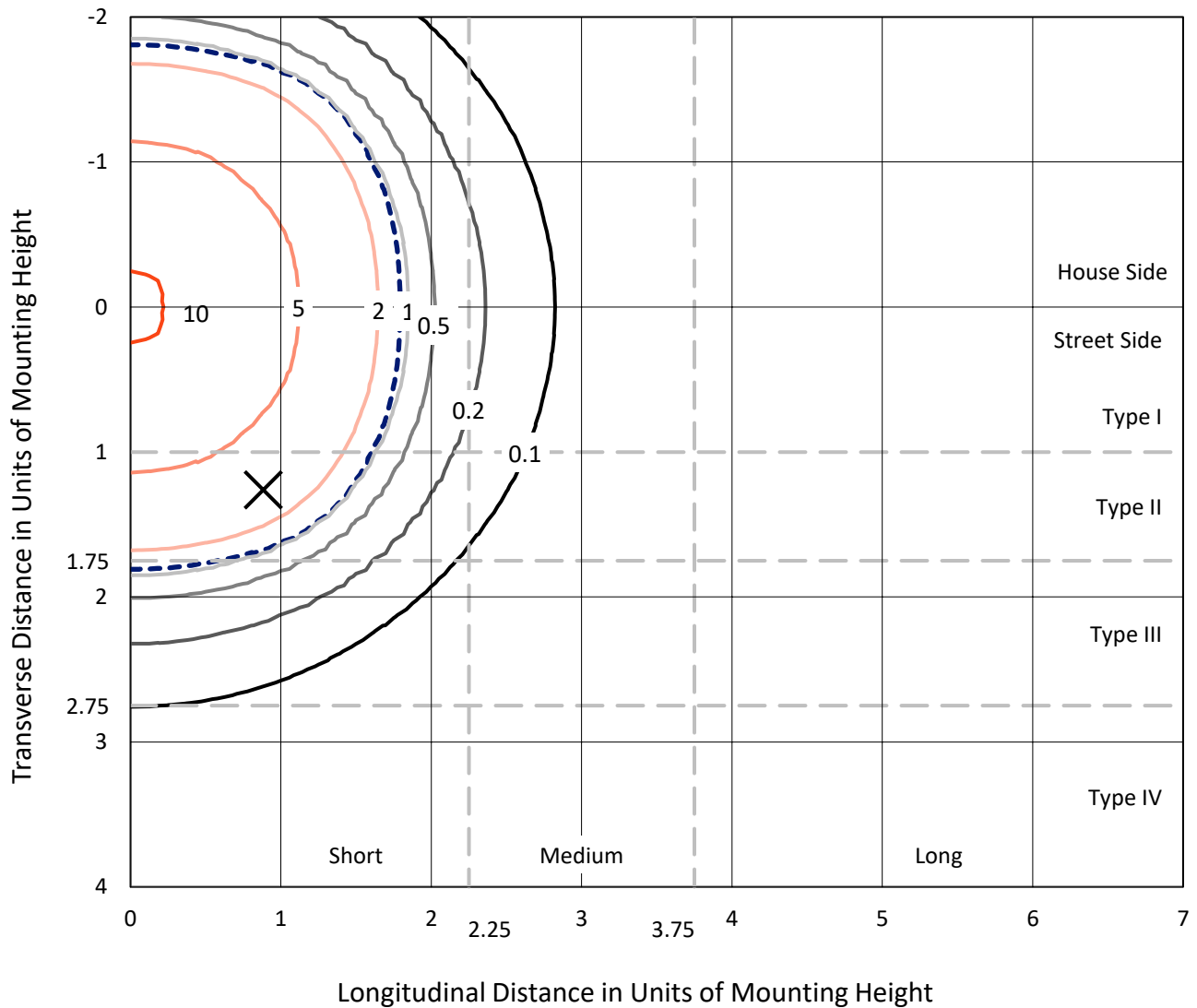
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

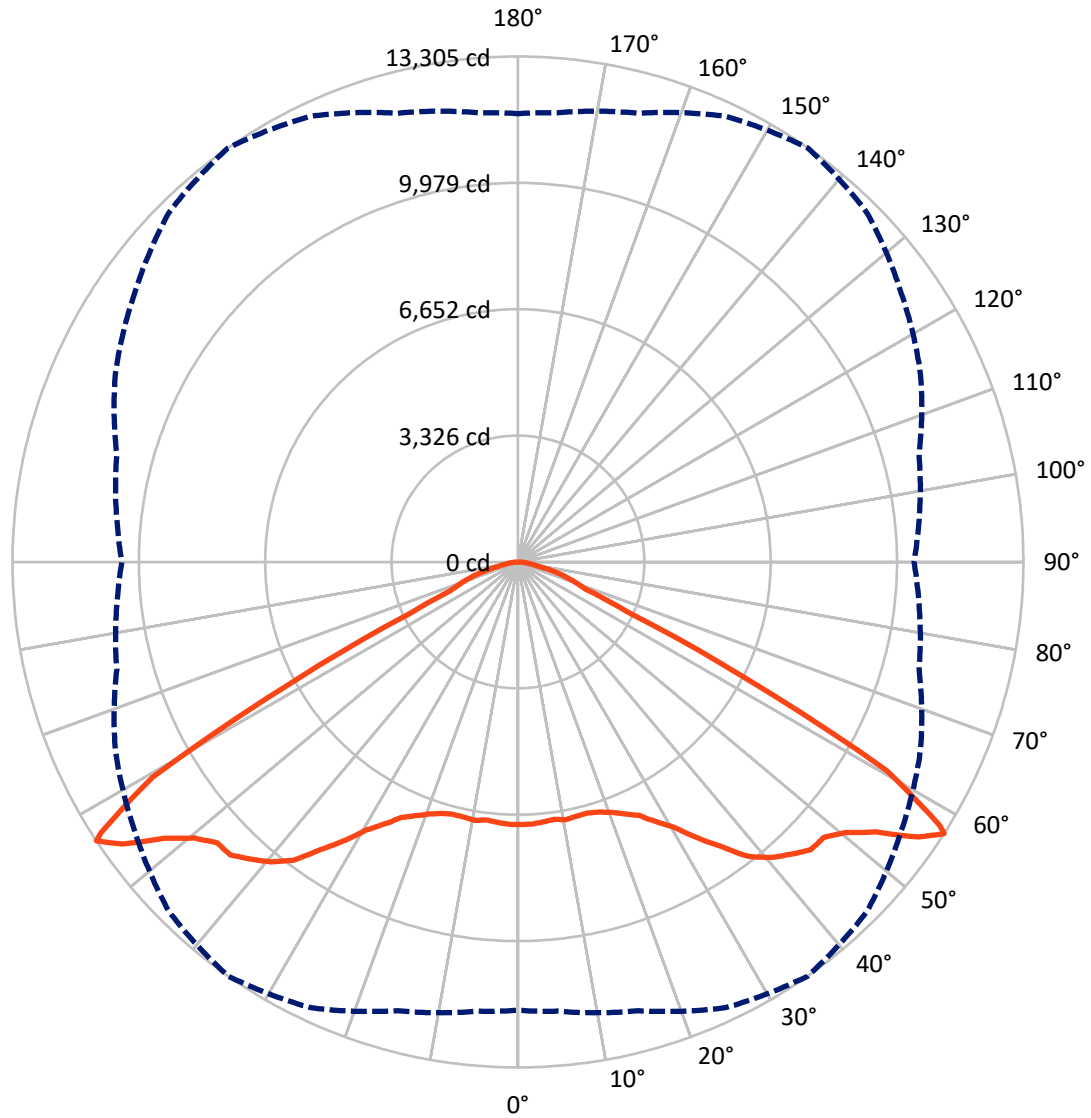
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 17491.5 | 0.0 | 17491.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 17491.5 | 0.0 | 17491.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 34983.0 | 0.0 | 34983.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 655.0 | 1.9 |
| 10°-20° | 1939.9 | 5.5 |
| 20°-30° | 3388.0 | 9.7 |
| 30°-40° | 5551.3 | 15.9 |
| 40°-50° | 8139.6 | 23.3 |
| 50°-60° | 10252.4 | 29.3 |
| 60°-70° | 3855.8 | 11.0 |
| 70°-80° | 1025.2 | 2.9 |
| 80°-90° | 175.8 | 0.5 |
| 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° | 34983.0 | 100.0 |
| 0°-180° | 34983.0 | 100.0 |

Coefficient of Utilization



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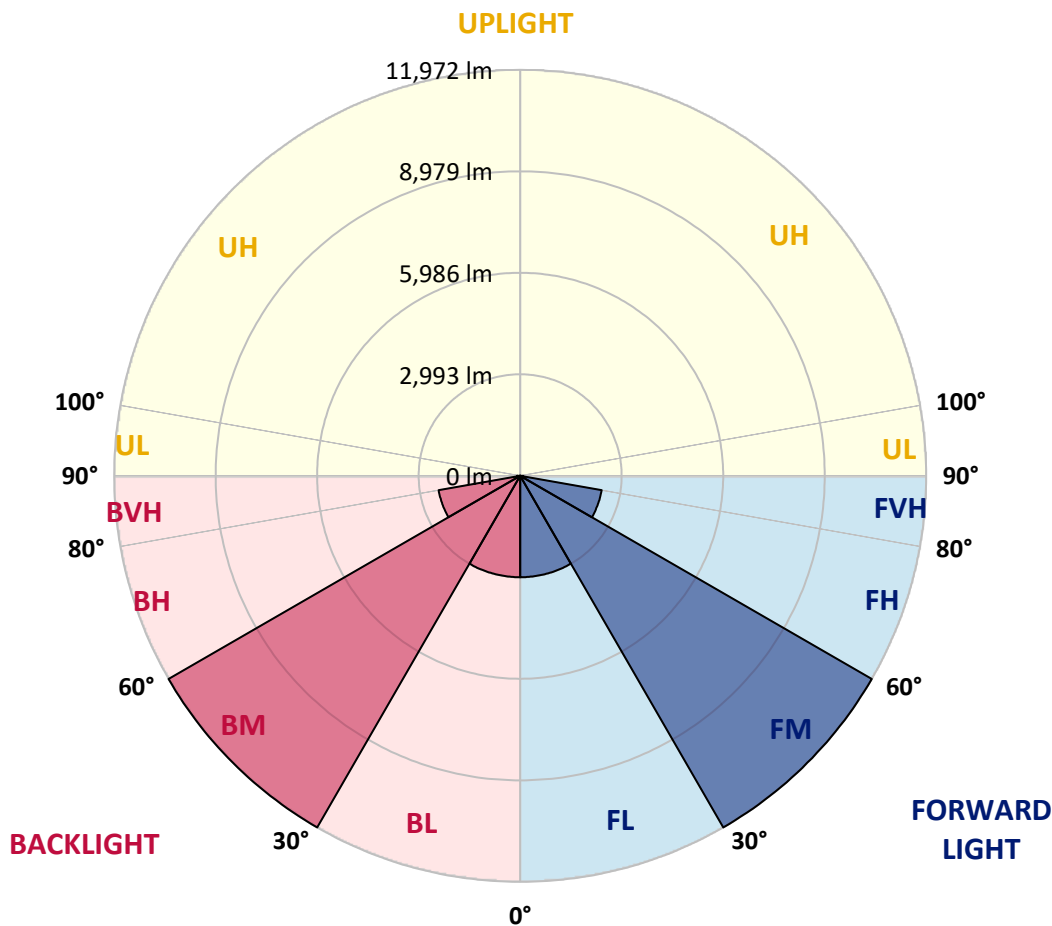
CATALOG NUMBER: GALN-SA7B-750-U-5MQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2991.4 | 8.6 | | | |
| FM (30°-60°) | 11971.6 | 34.2 | | | |
| FH (60°-80°) | 2440.5 | 7.0 | | | G2/5000 |
| FVH (80°-90°) | 87.9 | 0.3 | | | G1/100 |
| BL (0°-30°) | 2991.4 | 8.6 | B4/5000 | | |
| BM (30°-60°) | 11971.6 | 34.2 | B5 | | |
| BH (60°-80°) | 2440.5 | 7.0 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 87.9 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6908.9 | 6908.9 | 6908.9 | 6908.9 | 6908.9 | 6908.9 | 6908.9 | 6908.9 | 6908.9 | 6908.9 | 6908.9 |
| 2.5° | 6874.4 | 6943.4 | 6913.2 | 6896.0 | 6908.9 | 6887.3 | 6852.9 | 6891.6 | 6883.0 | 6848.5 | 6835.6 |
| 5° | 6857.2 | 6908.9 | 6874.4 | 6908.9 | 6874.4 | 6934.7 | 6917.5 | 6852.9 | 6930.4 | 6857.2 | 6883.0 |
| 7.5° | 6844.2 | 6861.5 | 6870.1 | 6852.9 | 6839.9 | 6913.2 | 6874.4 | 6844.2 | 6801.1 | 6788.2 | 6809.8 |
| 10° | 6814.1 | 6857.2 | 6792.5 | 6878.7 | 6896.0 | 6844.2 | 6844.2 | 6788.2 | 6753.7 | 6732.2 | 6805.4 |
| 12.5° | 6891.6 | 6818.4 | 6809.8 | 6852.9 | 6865.8 | 6887.3 | 6827.0 | 6796.8 | 6732.2 | 6740.8 | 6727.9 |
| 15° | 6801.1 | 6831.3 | 6835.6 | 6844.2 | 6857.2 | 6908.9 | 6852.9 | 6788.2 | 6762.3 | 6671.8 | 6680.5 |
| 17.5° | 6835.6 | 6805.4 | 6835.6 | 6934.7 | 6917.5 | 6956.3 | 6896.0 | 6796.8 | 6736.5 | 6684.8 | 6753.7 |
| 20° | 6896.0 | 6883.0 | 6896.0 | 7016.6 | 7038.2 | 7072.7 | 7020.9 | 6930.4 | 6814.1 | 6753.7 | 6788.2 |
| 22.5° | 6960.6 | 6952.0 | 6960.6 | 7077.0 | 7202.0 | 7245.1 | 7193.3 | 6982.2 | 6921.8 | 6809.8 | 6771.0 |
| 25° | 7077.0 | 7085.6 | 7176.1 | 7305.4 | 7387.3 | 7469.2 | 7374.4 | 7223.5 | 7029.6 | 6960.6 | 6878.7 |
| 27.5° | 7335.6 | 7357.1 | 7408.8 | 7598.5 | 7740.7 | 7814.0 | 7680.4 | 7473.5 | 7352.8 | 7210.6 | 7189.0 |
| 30° | 7654.5 | 7654.5 | 7745.0 | 7908.8 | 8102.7 | 8214.8 | 8051.0 | 7805.4 | 7658.8 | 7581.2 | 7533.8 |
| 32.5° | 8076.9 | 8029.5 | 8064.0 | 8352.7 | 8654.4 | 8749.2 | 8529.4 | 8227.7 | 7995.0 | 7891.6 | 7857.1 |
| 35° | 8438.9 | 8469.1 | 8546.7 | 8857.0 | 9193.2 | 9413.0 | 9068.2 | 8676.0 | 8438.9 | 8344.1 | 8326.9 |
| 37.5° | 8908.7 | 8960.4 | 8999.2 | 9425.9 | 9831.0 | 9912.9 | 9581.1 | 9266.4 | 8977.7 | 8900.1 | 8857.0 |
| 40° | 9572.4 | 9538.0 | 9550.9 | 9865.5 | 10231.9 | 10283.6 | 9956.0 | 9731.9 | 9494.9 | 9447.5 | 9447.5 |
| 42.5° | 10119.8 | 10081.0 | 10124.1 | 10240.5 | 10520.6 | 10481.9 | 10300.8 | 10137.1 | 10037.9 | 9986.2 | 10037.9 |
| 45° | 10451.7 | 10443.1 | 10520.6 | 10606.8 | 10805.1 | 10675.8 | 10533.6 | 10559.4 | 10464.6 | 10378.4 | 10374.1 |
| 47.5° | 10813.7 | 10757.7 | 10852.5 | 10981.8 | 10831.0 | 10770.6 | 10762.0 | 10818.0 | 10787.9 | 10637.0 | 10589.6 |
| 50° | 10990.4 | 10968.9 | 11119.7 | 11270.6 | 11188.7 | 11050.8 | 11080.9 | 11171.4 | 10783.5 | 10581.0 | 10464.6 |
| 52.5° | 11464.5 | 11468.8 | 11757.6 | 11839.5 | 11805.0 | 11602.4 | 11667.1 | 11421.4 | 10964.6 | 10680.1 | 10693.0 |
| 55° | 12210.2 | 12180.0 | 12503.2 | 12744.6 | 12783.4 | 12524.8 | 12214.5 | 11869.7 | 11296.4 | 11007.7 | 10921.5 |
| 57° | 11800.7 | 11869.7 | 12227.4 | 12942.8 | 13304.9 | 12998.9 | 12322.2 | 11693.0 | 10930.1 | 10581.0 | 10425.8 |
| 57.5° | 11253.3 | 11365.4 | 11986.0 | 12705.8 | 13085.1 | 13059.2 | 12188.6 | 11365.4 | 10684.4 | 10141.4 | 10154.3 |
| 60° | 8245.0 | 8266.5 | 8826.8 | 9969.0 | 11154.2 | 11180.1 | 10119.8 | 9029.4 | 8270.8 | 7680.4 | 7762.3 |
| 62.5° | 4348.8 | 4447.9 | 4672.0 | 5590.0 | 6615.8 | 6865.8 | 6223.6 | 5663.3 | 5008.2 | 4560.0 | 4603.0 |
| 65° | 2301.5 | 2288.6 | 2396.3 | 2654.9 | 3159.2 | 3288.5 | 3202.3 | 2758.4 | 2530.0 | 2456.7 | 2461.0 |
| 67.5° | 1870.5 | 1892.1 | 1879.1 | 1892.1 | 1926.6 | 1982.6 | 1969.7 | 1986.9 | 1999.8 | 2021.4 | 2017.1 |
| 70° | 1586.1 | 1586.1 | 1594.7 | 1599.0 | 1599.0 | 1624.9 | 1655.0 | 1711.1 | 1715.4 | 1736.9 | 1745.5 |
| 72.5° | 1249.9 | 1241.3 | 1254.2 | 1284.4 | 1288.7 | 1310.2 | 1353.3 | 1387.8 | 1400.7 | 1400.7 | 1374.9 |
| 75° | 849.1 | 857.7 | 874.9 | 900.8 | 926.6 | 965.4 | 999.9 | 1021.5 | 1030.1 | 1017.2 | 1004.2 |
| 77.5° | 478.4 | 487.0 | 500.0 | 538.7 | 568.9 | 603.4 | 642.2 | 663.7 | 685.3 | 689.6 | 663.7 |
| 80° | 284.5 | 284.5 | 306.0 | 336.2 | 370.7 | 405.1 | 439.6 | 465.5 | 474.1 | 474.1 | 461.2 |
| 82.5° | 172.4 | 176.7 | 193.9 | 224.1 | 254.3 | 275.8 | 306.0 | 327.6 | 344.8 | 340.5 | 331.9 |
| 85° | 90.5 | 90.5 | 107.7 | 133.6 | 155.2 | 176.7 | 176.7 | 163.8 | 155.2 | 133.6 | 125.0 |
| 87.5° | 30.2 | 25.9 | 34.5 | 34.5 | 30.2 | 34.5 | 34.5 | 38.8 | 38.8 | 38.8 | 38.8 |
| 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)