

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: P452236

Luminaire Tested: **GLAN-SA3A-830-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452236
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-SA3A-830-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10829 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

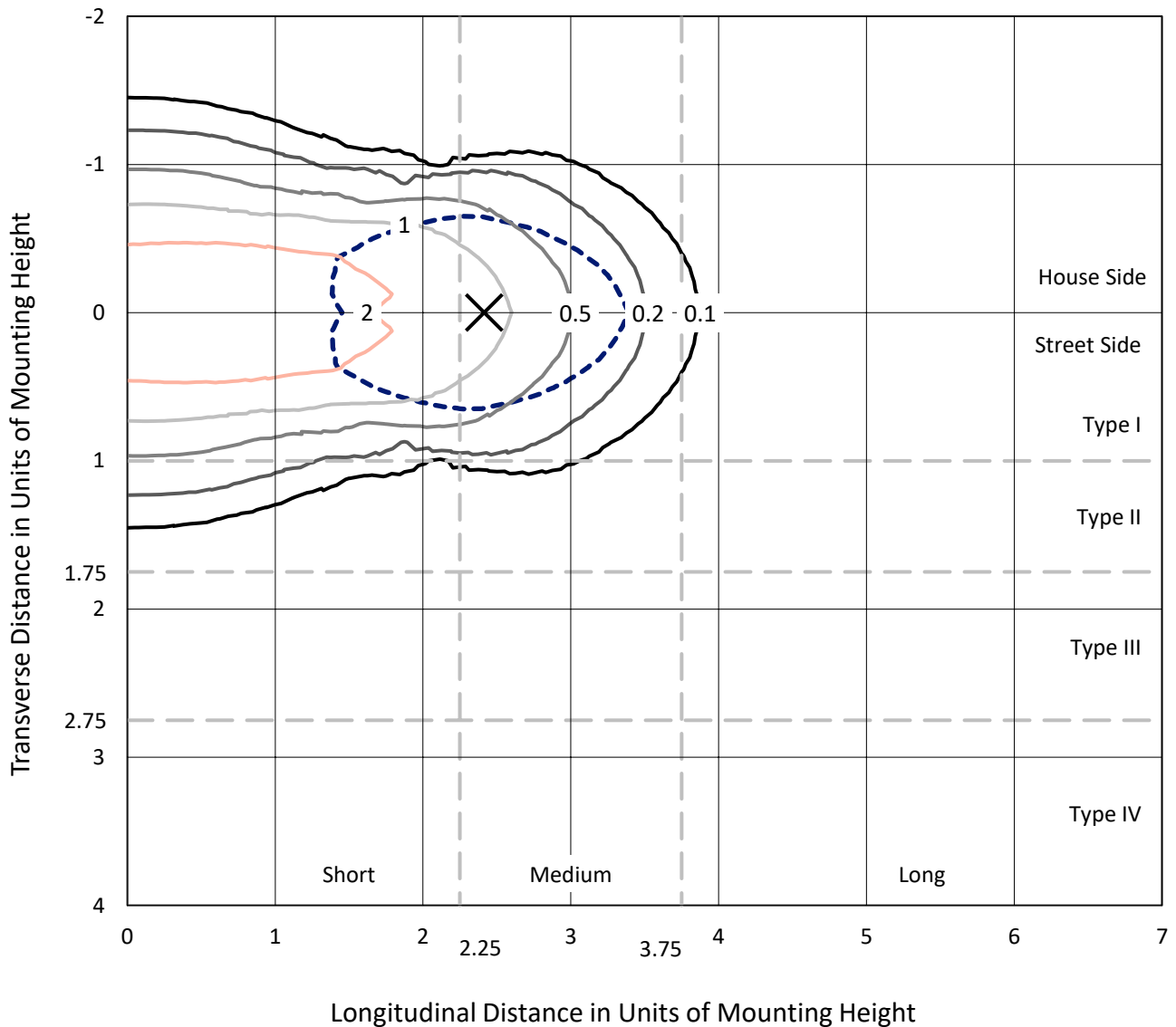
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452236
 CATALOG NUMBER: GLAN-SA3A-830-U-T1

Iso-Footcandle Lines of Horizontal Illumination

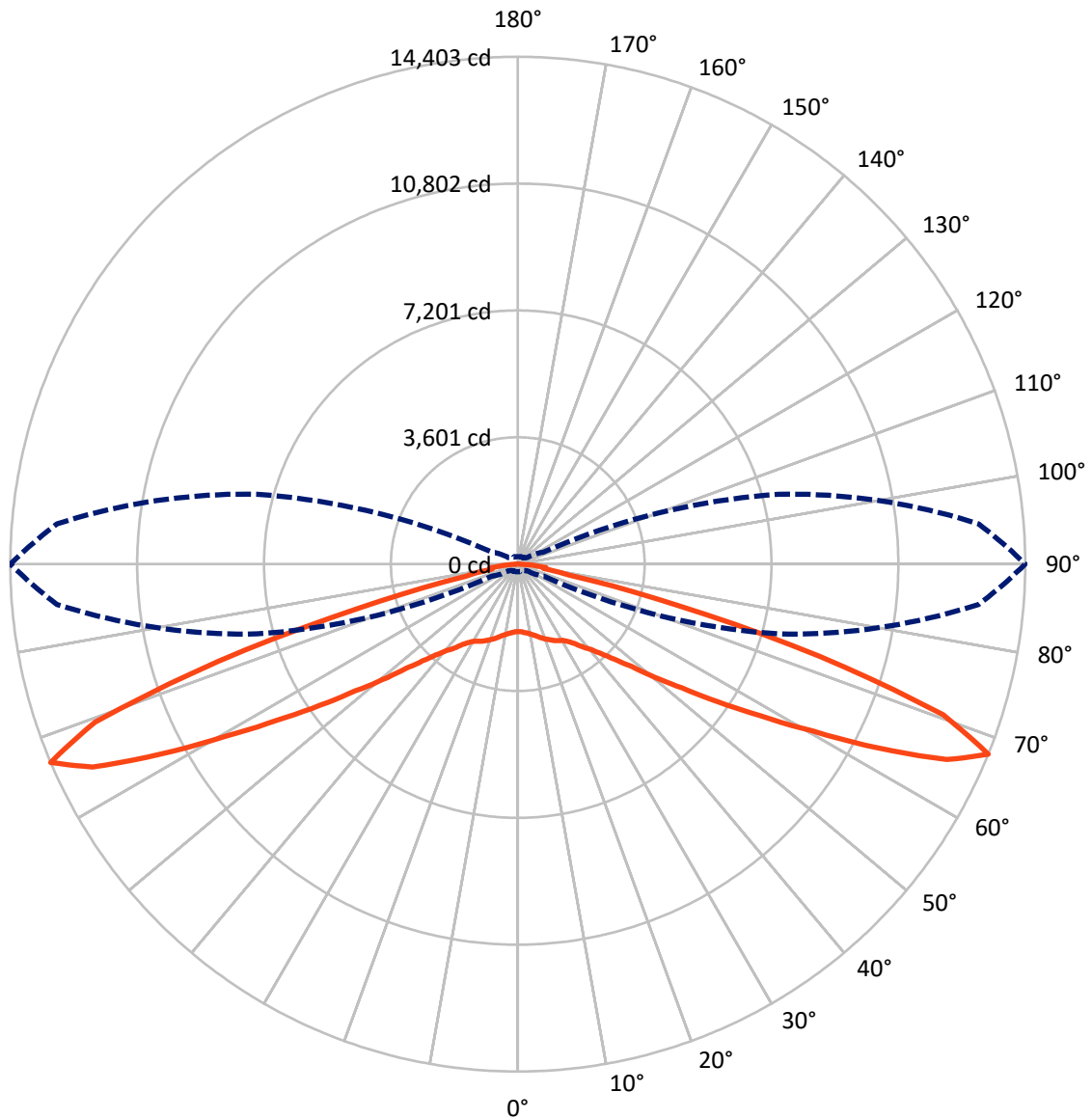
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type I - Short - N/A

REPORT NUMBER: P452236
CATALOG NUMBER: GLAN-SA3A-830-U-T1

Luminous Intensity Polar Plot



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

REPORT NUMBER: P452236

CATALOG NUMBER: GLAN-SA3A-830-U-T1

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5414.5 | 0.0 | 5414.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5414.5 | 0.0 | 5414.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 10829.0 | 0.0 | 10829.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 191.1 | 1.8 |
| 10°-20° | 611.5 | 5.6 |
| 20°-30° | 1023.5 | 9.5 |
| 30°-40° | 1386.6 | 12.8 |
| 40°-50° | 1756.4 | 16.2 |
| 50°-60° | 2194.1 | 20.3 |
| 60°-70° | 2579.1 | 23.8 |
| 70°-80° | 986.6 | 9.1 |
| 80°-90° | 100.0 | 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° | 10829.0 | 100.0 |
| 0°-180° | 10829.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P452236

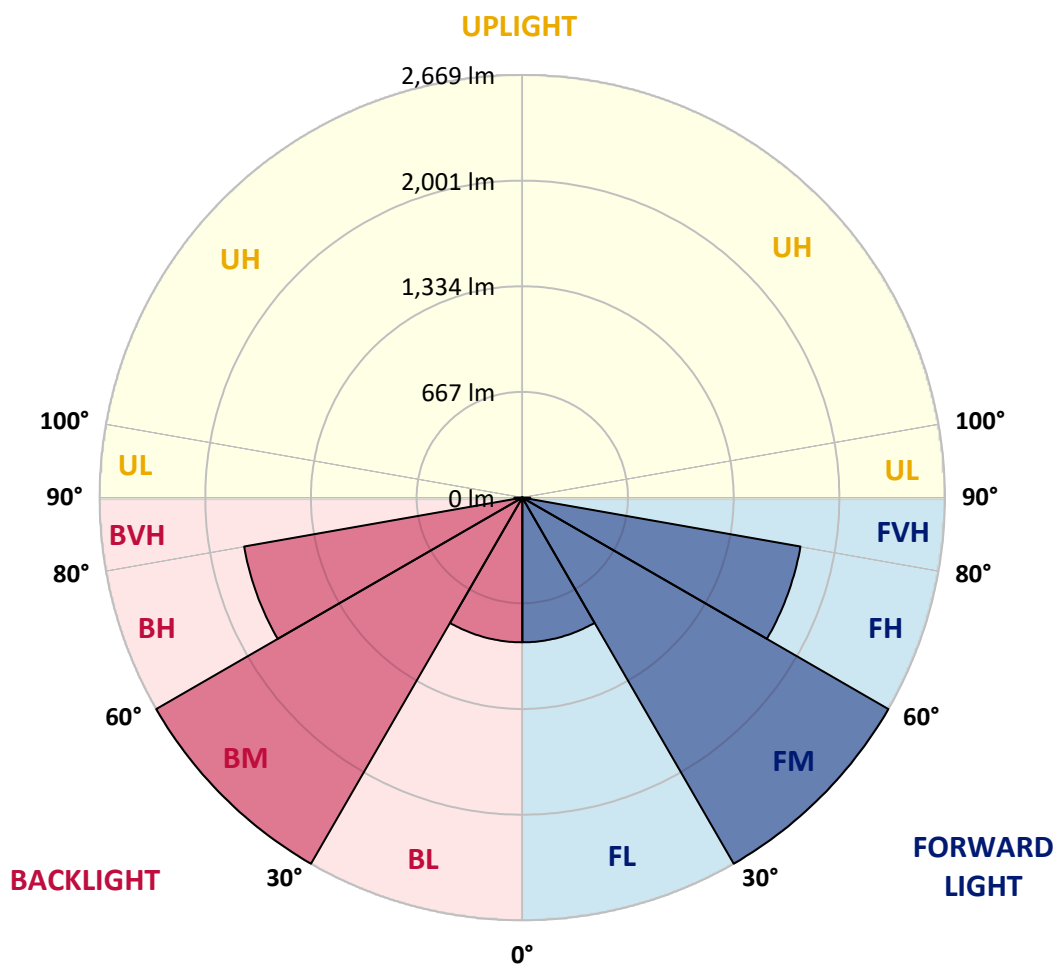
CATALOG NUMBER: GLAN-SA3A-830-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 913.1 | 8.4 | | | |
| FM | (30°-60°) | 2668.6 | 24.6 | | | |
| FH | (60°-80°) | 1782.9 | 16.5 | | | G1/1800 |
| FVH | (80°-90°) | 50.0 | 0.5 | | | G1/100 |
| BL | (0°-30°) | 913.1 | 8.4 | B2/1000 | | |
| BM | (30°-60°) | 2668.6 | 24.6 | B3/5000 | | |
| BH | (60°-80°) | 1782.9 | 16.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 50.0 | 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





REPORT NUMBER: P452236

CATALOG NUMBER: GLAN-SA3A-830-U-T1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0° | 1917.1 | 1917.1 | 1917.1 | 1917.1 | 1917.1 | 1917.1 | 1917.1 | 1917.1 | 1917.1 | 1917.1 | 1917.1 |
| 2.5° | 1941.7 | 1940.5 | 1941.1 | 1940.5 | 1942.3 | 1941.1 | 1933.9 | 1927.9 | 1923.1 | 1923.7 | 1921.9 |
| 5° | 1983.0 | 1983.6 | 1984.2 | 1981.2 | 1985.4 | 1983.0 | 1971.6 | 1962.0 | 1952.4 | 1948.9 | 1947.7 |
| 7.5° | 2017.2 | 2020.2 | 2022.0 | 2025.0 | 2032.2 | 2032.2 | 2026.2 | 2012.4 | 1991.4 | 1979.4 | 1978.8 |
| 10° | 2051.4 | 2053.8 | 2059.2 | 2068.8 | 2080.8 | 2092.2 | 2089.8 | 2071.2 | 2044.2 | 2023.8 | 2019.0 |
| 12.5° | 2063.4 | 2066.4 | 2084.4 | 2112.0 | 2138.9 | 2161.1 | 2161.1 | 2146.1 | 2111.4 | 2080.2 | 2071.2 |
| 15° | 2021.4 | 2026.8 | 2059.2 | 2118.0 | 2188.7 | 2237.3 | 2248.1 | 2227.1 | 2189.9 | 2141.9 | 2131.1 |
| 17.5° | 1938.1 | 1951.3 | 1998.6 | 2085.6 | 2203.1 | 2303.8 | 2335.0 | 2324.8 | 2276.9 | 2215.7 | 2203.1 |
| 20° | 1848.7 | 1863.1 | 1913.5 | 2028.6 | 2191.1 | 2342.8 | 2433.4 | 2435.8 | 2376.4 | 2287.7 | 2269.1 |
| 22.5° | 1750.4 | 1761.2 | 1825.9 | 1960.8 | 2155.1 | 2351.8 | 2517.9 | 2559.3 | 2478.9 | 2359.6 | 2333.2 |
| 25° | 1640.0 | 1652.0 | 1719.8 | 1865.5 | 2087.4 | 2341.6 | 2595.3 | 2686.4 | 2586.3 | 2436.4 | 2402.8 |
| 27.5° | 1534.5 | 1539.3 | 1611.9 | 1760.0 | 1998.0 | 2315.2 | 2652.2 | 2803.3 | 2705.0 | 2499.9 | 2457.4 |
| 30° | 1433.2 | 1444.5 | 1508.7 | 1655.0 | 1895.5 | 2263.7 | 2701.4 | 2936.5 | 2832.7 | 2566.5 | 2511.9 |
| 32.5° | 1325.8 | 1339.6 | 1409.2 | 1557.3 | 1792.9 | 2186.3 | 2731.4 | 3082.2 | 3010.8 | 2674.4 | 2616.3 |
| 35° | 1222.7 | 1231.7 | 1301.8 | 1445.7 | 1692.8 | 2096.4 | 2736.8 | 3246.5 | 3240.5 | 2838.1 | 2760.8 |
| 37.5° | 1117.1 | 1130.3 | 1201.1 | 1339.0 | 1586.7 | 2001.0 | 2709.8 | 3421.0 | 3517.5 | 3065.4 | 2982.0 |
| 40° | 1015.8 | 1027.2 | 1096.8 | 1235.9 | 1466.1 | 1884.7 | 2645.6 | 3580.5 | 3840.7 | 3299.3 | 3181.1 |
| 42.5° | 905.5 | 908.5 | 984.6 | 1126.1 | 1348.0 | 1749.8 | 2553.3 | 3722.6 | 4201.1 | 3612.9 | 3466.0 |
| 45° | 780.1 | 787.9 | 858.7 | 997.8 | 1212.5 | 1598.7 | 2428.0 | 3840.1 | 4658.1 | 4047.6 | 3847.3 |
| 47.5° | 654.8 | 661.4 | 726.2 | 863.5 | 1064.4 | 1425.4 | 2234.9 | 3943.3 | 5127.0 | 4599.9 | 4337.2 |
| 50° | 532.5 | 536.1 | 588.9 | 710.6 | 897.7 | 1243.1 | 1995.6 | 3976.3 | 5657.1 | 5381.8 | 5046.6 |
| 52.5° | 421.0 | 426.3 | 466.5 | 561.9 | 719.6 | 1027.8 | 1737.2 | 3894.7 | 6275.9 | 6308.9 | 5836.4 |
| 55° | 341.2 | 343.0 | 373.0 | 443.1 | 562.5 | 802.3 | 1425.4 | 3667.4 | 6941.5 | 7496.8 | 6894.1 |
| 57.5° | 293.8 | 295.0 | 311.8 | 350.8 | 432.9 | 605.0 | 1105.7 | 3237.5 | 7539.4 | 8888.6 | 8113.8 |
| 60° | 266.8 | 267.4 | 277.0 | 299.8 | 343.0 | 464.1 | 792.1 | 2630.6 | 8129.4 | 10437.4 | 9629.7 |
| 62.5° | 250.1 | 250.1 | 256.6 | 269.2 | 290.2 | 356.2 | 573.9 | 1897.9 | 8533.6 | 12009.1 | 11498.2 |
| 65° | 233.9 | 233.9 | 238.7 | 247.7 | 259.0 | 291.4 | 424.0 | 1237.7 | 8523.4 | 13153.8 | 13377.5 |
| 67.5° | 215.3 | 215.3 | 218.9 | 227.9 | 234.5 | 250.7 | 327.4 | 810.7 | 7656.3 | 13128.7 | 14402.9 |
| 70° | 193.1 | 193.1 | 197.9 | 205.7 | 211.1 | 221.3 | 258.4 | 554.7 | 5624.7 | 11209.8 | 12809.1 |
| 72.5° | 170.9 | 171.5 | 174.5 | 182.3 | 186.5 | 192.5 | 214.7 | 388.6 | 3450.4 | 7632.9 | 8956.3 |
| 75° | 146.3 | 147.5 | 150.5 | 158.3 | 161.9 | 164.3 | 181.1 | 277.0 | 1745.6 | 4115.4 | 4685.6 |
| 77.5° | 118.1 | 120.5 | 122.3 | 130.7 | 133.1 | 136.7 | 149.3 | 200.3 | 766.3 | 1478.7 | 1491.9 |
| 80° | 86.3 | 89.3 | 94.7 | 102.5 | 104.3 | 106.7 | 113.9 | 142.1 | 347.2 | 675.2 | 733.4 |
| 82.5° | 63.6 | 67.8 | 61.2 | 71.4 | 71.4 | 68.4 | 80.4 | 95.3 | 159.5 | 668.6 | 799.9 |
| 85° | 34.8 | 35.4 | 31.8 | 36.6 | 39.0 | 38.4 | 42.6 | 46.8 | 77.4 | 446.1 | 459.9 |
| 87.5° | 8.4 | 9.0 | 9.6 | 11.4 | 13.8 | 13.8 | 15.0 | 13.2 | 25.2 | 144.5 | 82.8 |
| 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)