

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: P961838

Luminaire Tested: **NVN-SB2B-722-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB2B-722-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9433.1 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

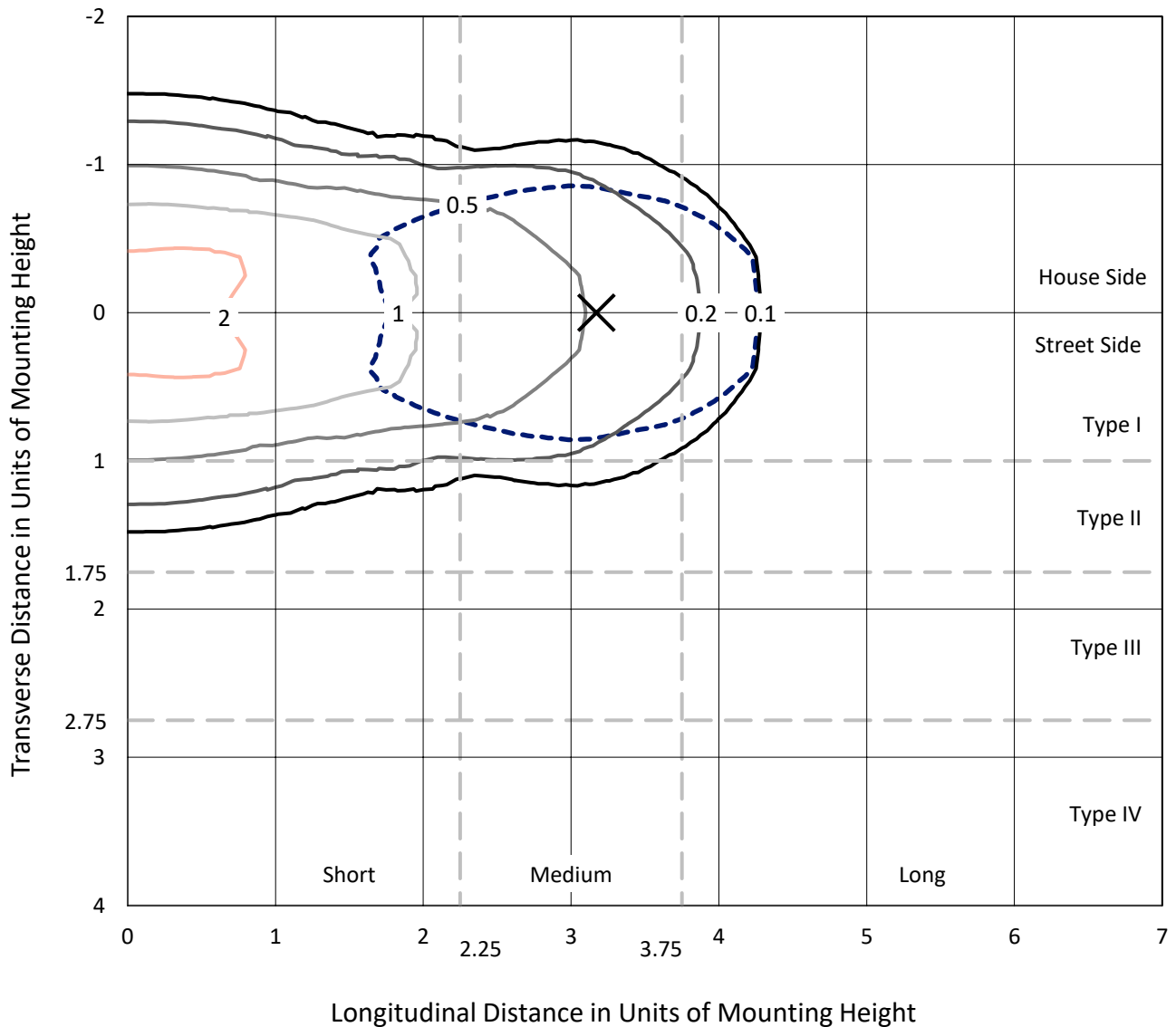
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

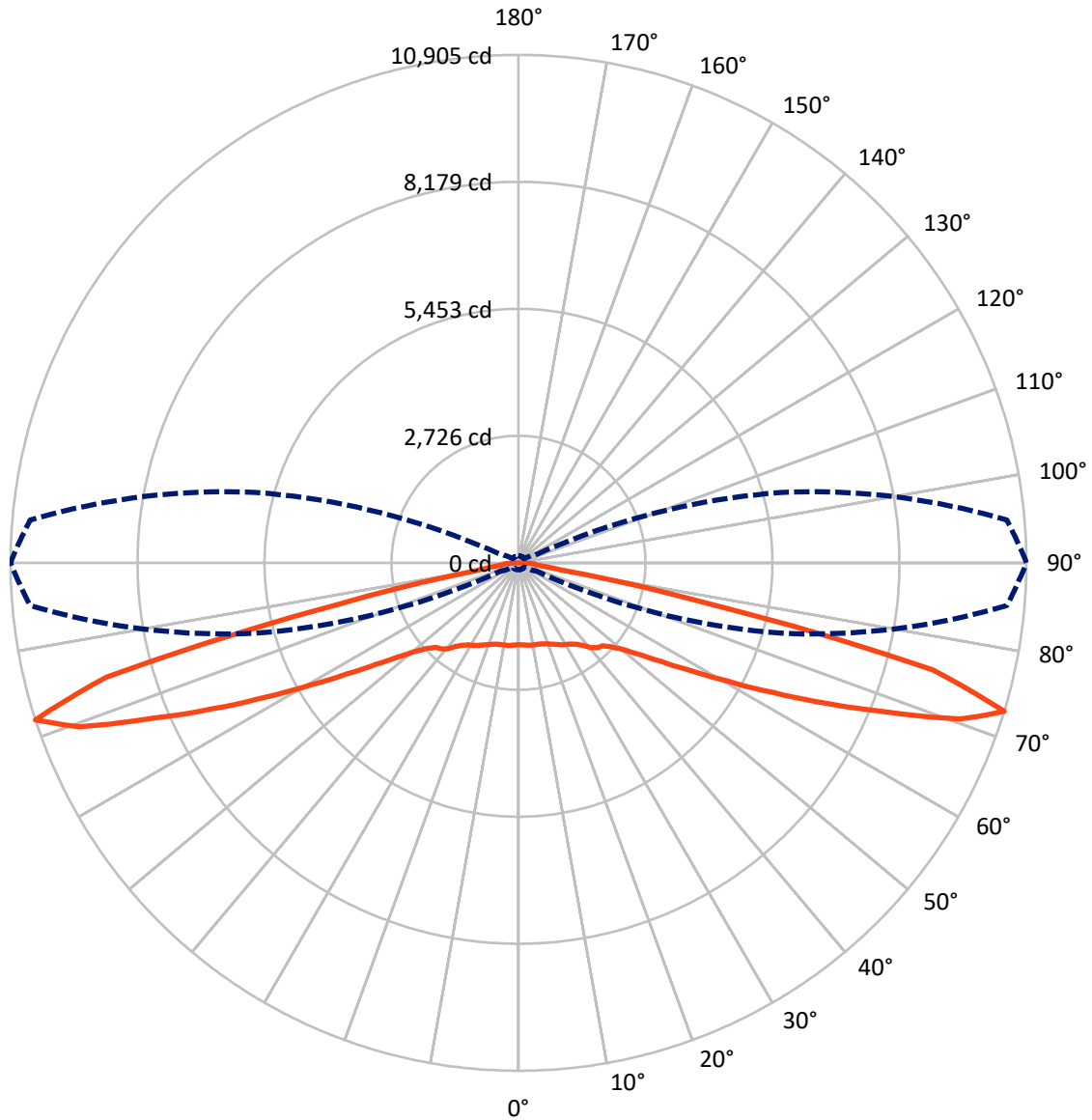
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4716.6 | 0.0 | 4716.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4716.6 | 0.0 | 4716.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 9433.1 | 0.0 | 9433.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 170.9 | 1.8 |
| 10°-20° | 522.6 | 5.5 |
| 20°-30° | 871.4 | 9.2 |
| 30°-40° | 1198.4 | 12.7 |
| 40°-50° | 1463.5 | 15.5 |
| 50°-60° | 1692.8 | 17.9 |
| 60°-70° | 2018.3 | 21.4 |
| 70°-80° | 1408.7 | 14.9 |
| 80°-90° | 86.5 | 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° | 9433.1 | 100.0 |
| 0°-180° | 9433.1 | 100.0 |

Coefficient of Utilization



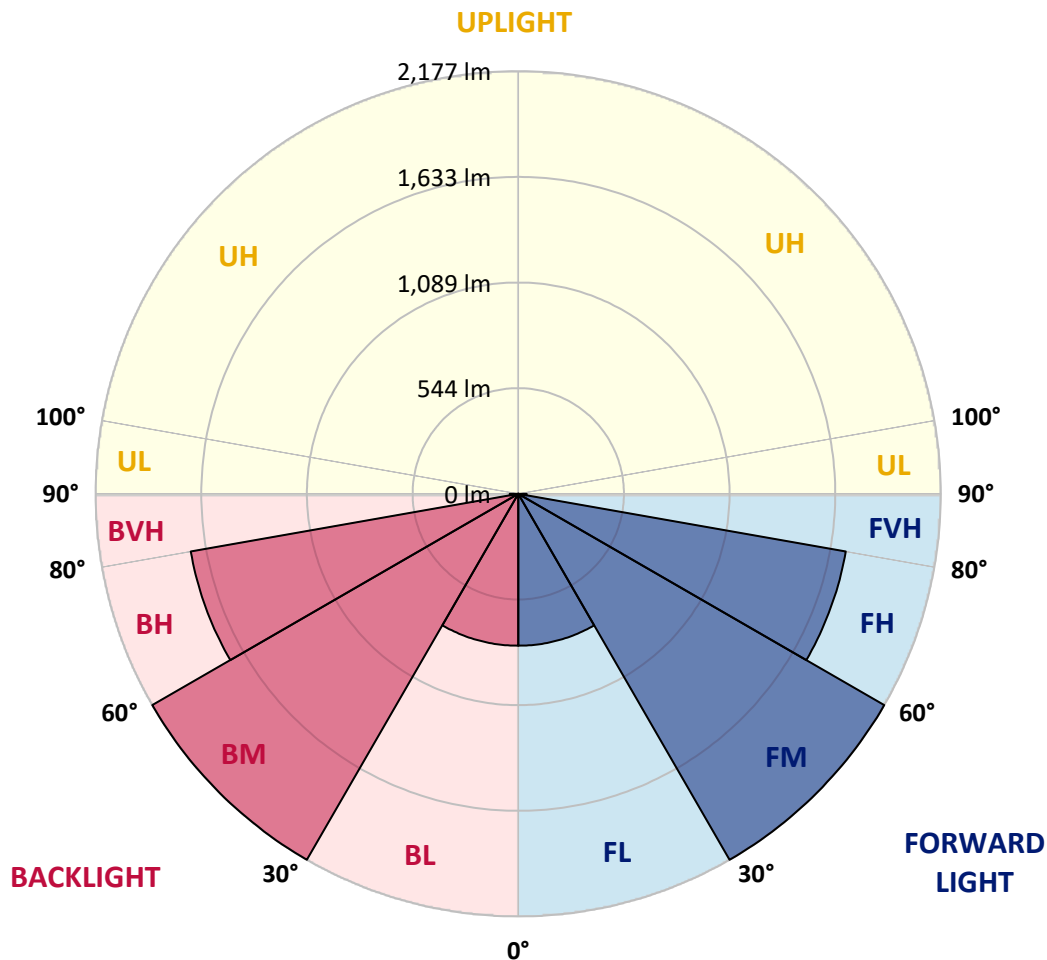
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 782.4 | 8.3 | | | |
| FM (30°-60°) | 2177.4 | 23.1 | | | |
| FH (60°-80°) | 1713.5 | 18.2 | | | G1/1800 |
| FVH (80°-90°) | 43.3 | 0.5 | | | G1/100 |
| BL (0°-30°) | 782.4 | 8.3 | B2/1000 | | |
| BM (30°-60°) | 2177.4 | 23.1 | B2/2500 | | |
| BH (60°-80°) | 1713.5 | 18.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 43.3 | 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° | 1762.7 | 1762.7 | 1762.7 | 1762.7 | 1762.7 | 1762.7 | 1762.7 | 1762.7 | 1762.7 | 1762.7 | 1762.7 |
| 2.5° | 1764.1 | 1766.2 | 1766.2 | 1764.6 | 1768.2 | 1765.2 | 1765.2 | 1763.7 | 1765.2 | 1763.7 | 1763.7 |
| 5° | 1773.1 | 1775.7 | 1776.7 | 1776.2 | 1780.7 | 1778.2 | 1778.2 | 1776.2 | 1776.7 | 1775.2 | 1775.2 |
| 7.5° | 1790.3 | 1793.7 | 1795.8 | 1798.3 | 1804.8 | 1801.7 | 1799.8 | 1793.7 | 1791.3 | 1787.2 | 1787.2 |
| 10° | 1795.8 | 1799.8 | 1806.3 | 1819.3 | 1834.3 | 1834.9 | 1828.8 | 1813.8 | 1802.3 | 1793.2 | 1791.7 |
| 12.5° | 1778.7 | 1784.2 | 1797.7 | 1824.3 | 1857.9 | 1871.4 | 1861.9 | 1836.9 | 1814.4 | 1798.3 | 1795.8 |
| 15° | 1757.2 | 1763.2 | 1783.7 | 1823.8 | 1873.5 | 1905.1 | 1904.0 | 1870.9 | 1834.9 | 1809.8 | 1805.7 |
| 17.5° | 1723.5 | 1729.6 | 1759.2 | 1815.3 | 1885.5 | 1937.7 | 1951.7 | 1917.6 | 1866.9 | 1833.3 | 1827.9 |
| 20° | 1662.9 | 1668.4 | 1709.5 | 1788.2 | 1889.5 | 1972.2 | 2008.8 | 1978.8 | 1915.6 | 1869.9 | 1861.4 |
| 22.5° | 1584.2 | 1592.7 | 1640.8 | 1741.6 | 1880.0 | 2008.3 | 2074.0 | 2053.5 | 1972.2 | 1909.1 | 1897.5 |
| 25° | 1500.0 | 1509.0 | 1565.2 | 1684.5 | 1855.5 | 2034.4 | 2151.2 | 2138.1 | 2036.4 | 1957.6 | 1941.7 |
| 27.5° | 1427.3 | 1436.8 | 1497.9 | 1627.8 | 1817.3 | 2044.5 | 2227.4 | 2233.9 | 2114.1 | 2011.4 | 1994.2 |
| 30° | 1370.1 | 1379.1 | 1444.3 | 1582.2 | 1768.2 | 2034.4 | 2294.1 | 2339.2 | 2193.3 | 2058.0 | 2033.4 |
| 32.5° | 1307.5 | 1319.0 | 1387.6 | 1526.5 | 1710.0 | 2010.3 | 2352.3 | 2453.0 | 2285.0 | 2108.1 | 2077.0 |
| 35° | 1228.3 | 1238.8 | 1311.0 | 1450.4 | 1633.8 | 1971.7 | 2400.9 | 2579.3 | 2416.4 | 2184.3 | 2149.7 |
| 37.5° | 1132.0 | 1142.1 | 1213.7 | 1355.0 | 1558.1 | 1917.6 | 2438.0 | 2721.7 | 2572.9 | 2294.1 | 2247.9 |
| 40° | 1035.2 | 1044.8 | 1111.9 | 1248.8 | 1467.4 | 1848.4 | 2451.0 | 2861.1 | 2752.3 | 2444.9 | 2395.8 |
| 42.5° | 946.5 | 955.0 | 1016.7 | 1144.0 | 1365.6 | 1760.1 | 2434.0 | 2982.4 | 2913.3 | 2550.3 | 2487.1 |
| 45° | 864.8 | 872.3 | 926.9 | 1045.8 | 1259.8 | 1652.9 | 2382.8 | 3112.7 | 3104.7 | 2625.4 | 2540.3 |
| 47.5° | 771.5 | 779.1 | 835.7 | 950.5 | 1154.0 | 1527.0 | 2296.1 | 3241.0 | 3370.9 | 2795.9 | 2697.7 |
| 50° | 657.7 | 664.3 | 722.4 | 840.7 | 1044.3 | 1393.2 | 2175.8 | 3341.8 | 3706.8 | 3054.1 | 2930.8 |
| 52.5° | 522.9 | 529.9 | 586.5 | 704.9 | 913.9 | 1249.3 | 2017.3 | 3407.5 | 4094.9 | 3431.1 | 3279.2 |
| 55° | 389.0 | 394.0 | 443.2 | 549.5 | 752.5 | 1085.4 | 1818.9 | 3426.1 | 4535.0 | 3946.5 | 3756.4 |
| 57.5° | 282.3 | 285.3 | 316.8 | 396.1 | 570.5 | 880.4 | 1577.7 | 3378.0 | 5058.9 | 4607.2 | 4368.0 |
| 60° | 228.6 | 229.6 | 239.1 | 274.2 | 396.6 | 648.7 | 1286.4 | 3212.6 | 5627.5 | 5458.9 | 5157.7 |
| 62.5° | 207.6 | 207.6 | 210.0 | 219.6 | 268.2 | 428.1 | 934.0 | 2869.6 | 6237.0 | 6535.3 | 6131.8 |
| 65° | 193.0 | 193.0 | 194.0 | 198.5 | 211.6 | 272.8 | 589.6 | 2311.2 | 6750.9 | 7796.2 | 7285.8 |
| 67.5° | 180.0 | 180.5 | 180.0 | 181.5 | 189.0 | 201.5 | 341.9 | 1596.2 | 7027.6 | 9102.6 | 8551.7 |
| 70° | 166.5 | 167.5 | 164.9 | 164.9 | 171.0 | 171.5 | 214.0 | 875.4 | 6798.0 | 10197.5 | 10052.6 |
| 72.5° | 150.4 | 151.9 | 147.9 | 146.9 | 151.4 | 149.4 | 160.9 | 420.1 | 5836.5 | 10524.4 | 10905.4 |
| 75° | 136.3 | 138.4 | 129.4 | 126.8 | 126.8 | 125.4 | 130.9 | 215.6 | 3788.0 | 8585.2 | 9182.9 |
| 77.5° | 123.8 | 127.8 | 113.3 | 105.3 | 103.3 | 98.8 | 106.8 | 131.8 | 1656.9 | 4030.7 | 3947.0 |
| 80° | 102.3 | 107.8 | 93.3 | 83.7 | 80.3 | 75.2 | 84.3 | 92.2 | 492.8 | 936.0 | 896.4 |
| 82.5° | 76.2 | 78.7 | 66.2 | 59.7 | 56.7 | 53.1 | 63.1 | 64.2 | 160.4 | 331.4 | 374.5 |
| 85° | 48.6 | 49.6 | 40.6 | 35.1 | 33.6 | 32.1 | 40.1 | 35.1 | 61.2 | 243.6 | 353.9 |
| 87.5° | 17.0 | 19.6 | 15.6 | 14.0 | 15.1 | 12.5 | 18.6 | 10.6 | 17.0 | 172.0 | 213.1 |
| 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)