

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: P966643

Luminaire Tested: **NVN-SB4C-730-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966643
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-SB4C-730-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30434.3 lumens
Efficiency: N/A
Efficacy: 151.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

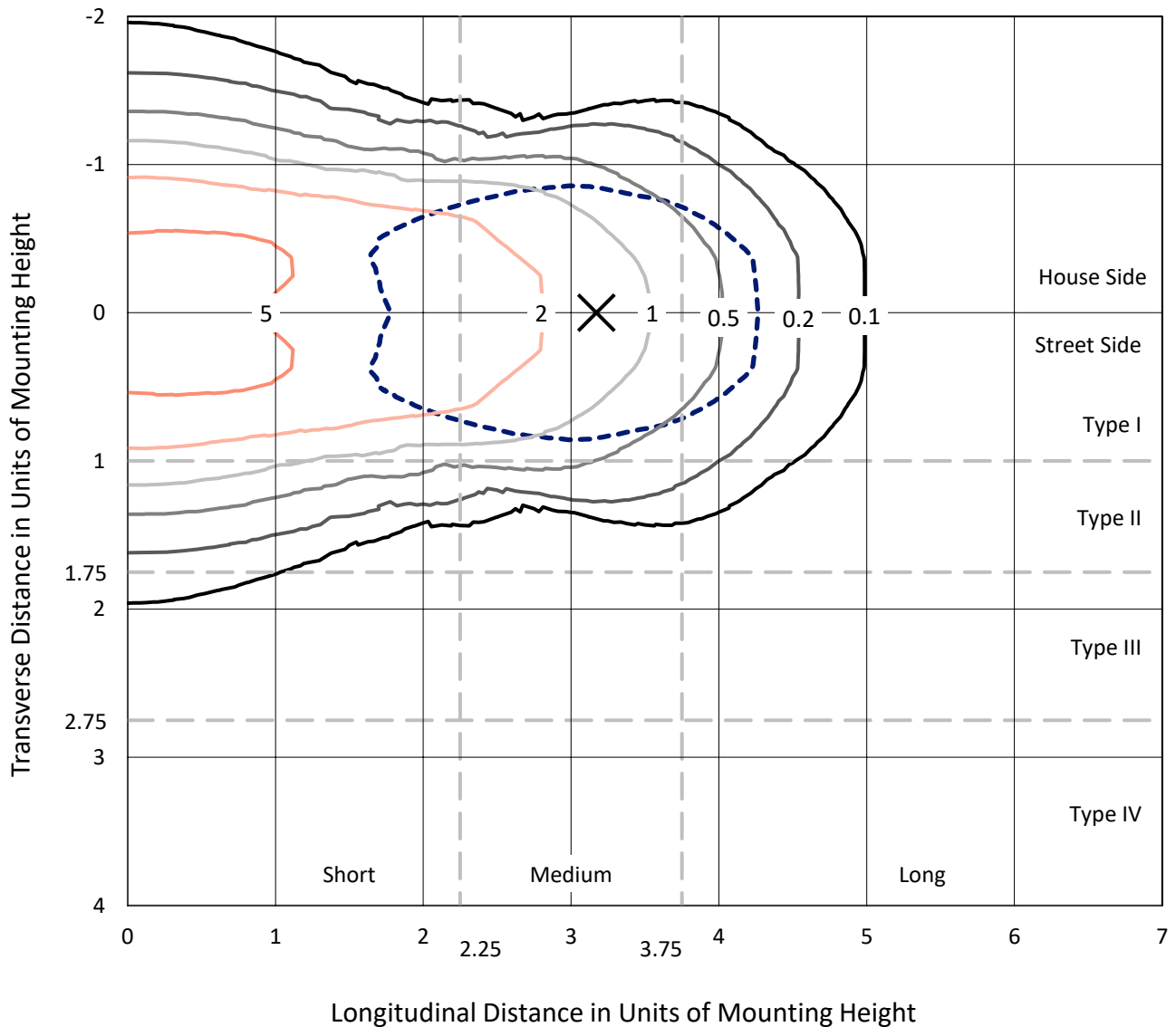
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

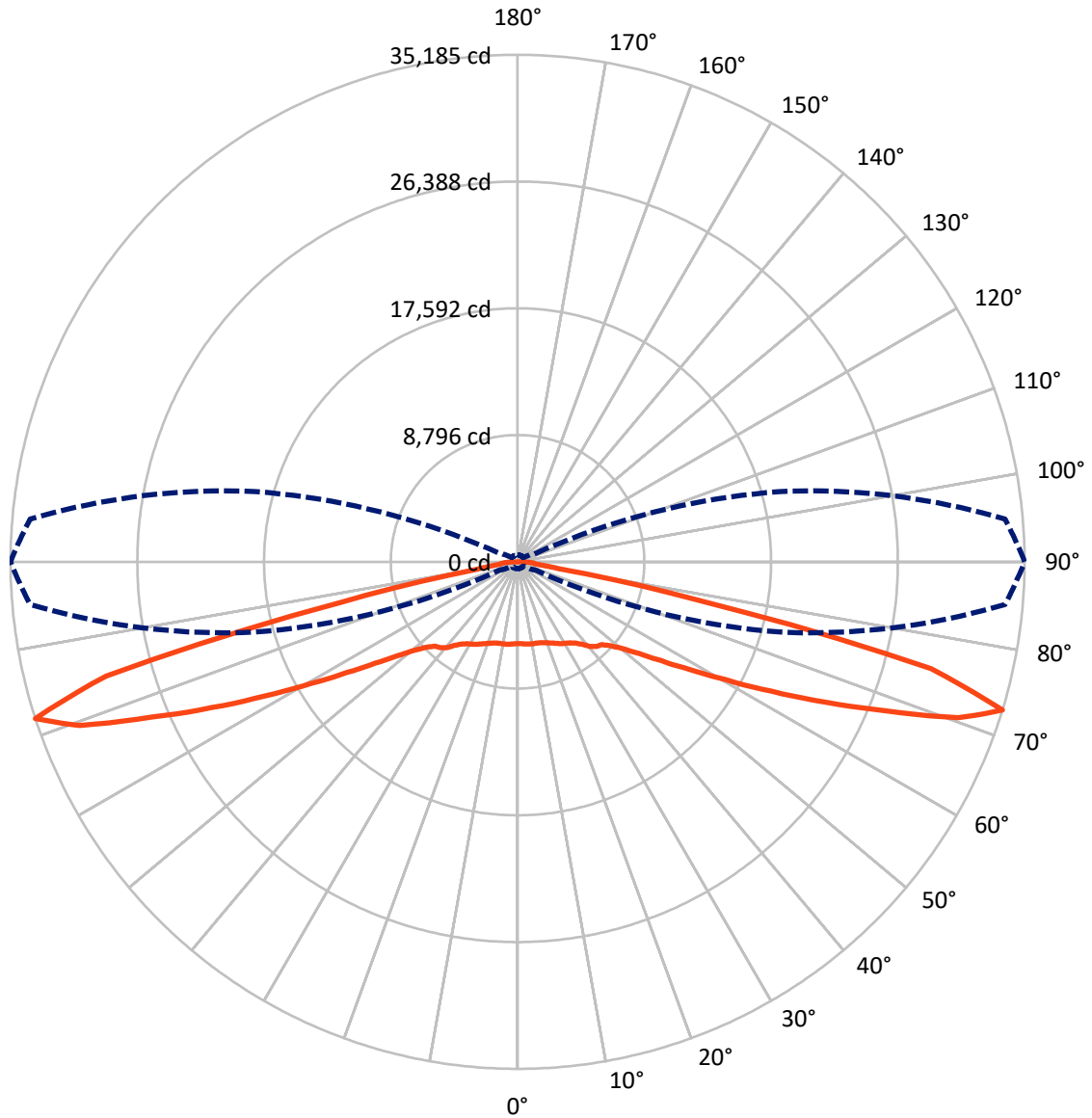
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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 | 15217.2 | 0.0 | 15217.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 15217.2 | 0.0 | 15217.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 30434.3 | 0.0 | 30434.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 551.4 | 1.8 |
| 10°-20° | 1686.0 | 5.5 |
| 20°-30° | 2811.3 | 9.2 |
| 30°-40° | 3866.4 | 12.7 |
| 40°-50° | 4721.9 | 15.5 |
| 50°-60° | 5461.4 | 17.9 |
| 60°-70° | 6511.8 | 21.4 |
| 70°-80° | 4544.8 | 14.9 |
| 80°-90° | 279.2 | 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° | 30434.3 | 100.0 |
| 0°-180° | 30434.3 | 100.0 |

Coefficient of Utilization

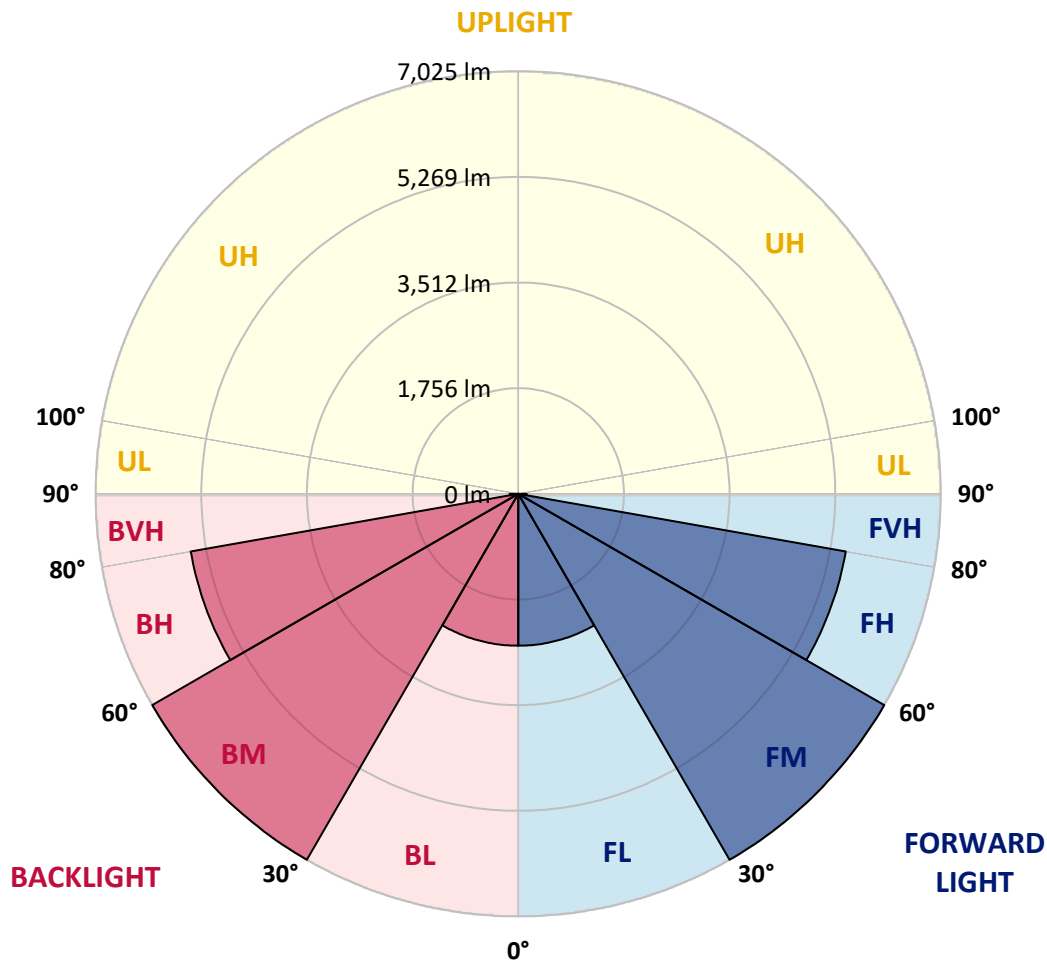


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2524.4 | 8.3 | | | |
| FM (30°-60°) | 7024.9 | 23.1 | | | |
| FH (60°-80°) | 5528.3 | 18.2 | | | G3/7500 |
| FVH (80°-90°) | 139.6 | 0.5 | | | G2/225 |
| BL (0°-30°) | 2524.4 | 8.3 | B4/5000 | | |
| BM (30°-60°) | 7024.9 | 23.1 | B4/8500 | | |
| BH (60°-80°) | 5528.3 | 18.2 | B5 | | G5 |
| BVH (80°-90°) | 139.6 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5
 Type I Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 5687.0 | 5687.0 | 5687.0 | 5687.0 | 5687.0 | 5687.0 | 5687.0 | 5687.0 | 5687.0 | 5687.0 | 5687.0 |
| 2.5° | 5691.8 | 5698.3 | 5698.3 | 5693.5 | 5704.7 | 5695.1 | 5695.1 | 5690.2 | 5695.1 | 5690.2 | 5690.2 |
| 5° | 5720.9 | 5729.0 | 5732.2 | 5730.7 | 5745.2 | 5737.1 | 5737.1 | 5730.7 | 5732.2 | 5727.4 | 5727.4 |
| 7.5° | 5776.0 | 5787.3 | 5793.7 | 5801.8 | 5822.8 | 5813.1 | 5806.6 | 5787.3 | 5779.2 | 5766.2 | 5766.2 |
| 10° | 5793.7 | 5806.6 | 5827.7 | 5869.8 | 5918.2 | 5919.9 | 5900.5 | 5851.9 | 5814.7 | 5785.6 | 5780.8 |
| 12.5° | 5738.8 | 5756.5 | 5800.2 | 5886.0 | 5994.3 | 6038.0 | 6007.2 | 5926.3 | 5853.6 | 5801.8 | 5793.7 |
| 15° | 5669.2 | 5688.5 | 5754.9 | 5884.3 | 6044.4 | 6146.3 | 6143.1 | 6036.3 | 5919.9 | 5839.0 | 5826.1 |
| 17.5° | 5560.8 | 5580.2 | 5675.6 | 5856.8 | 6083.3 | 6251.5 | 6296.8 | 6186.8 | 6023.4 | 5915.1 | 5897.2 |
| 20° | 5365.1 | 5382.9 | 5515.5 | 5769.4 | 6096.2 | 6363.1 | 6481.2 | 6384.1 | 6180.3 | 6033.2 | 6005.6 |
| 22.5° | 5111.2 | 5138.6 | 5293.9 | 5619.0 | 6065.4 | 6479.5 | 6691.4 | 6625.1 | 6363.1 | 6159.2 | 6122.0 |
| 25° | 4839.4 | 4868.5 | 5049.7 | 5434.7 | 5986.2 | 6563.6 | 6940.5 | 6898.5 | 6570.1 | 6316.2 | 6264.4 |
| 27.5° | 4604.9 | 4635.7 | 4833.0 | 5251.9 | 5863.3 | 6596.0 | 7186.4 | 7207.4 | 6820.8 | 6489.3 | 6434.2 |
| 30° | 4420.5 | 4449.6 | 4659.9 | 5104.7 | 5704.7 | 6563.6 | 7401.4 | 7547.1 | 7076.4 | 6639.6 | 6560.4 |
| 32.5° | 4218.3 | 4255.5 | 4477.1 | 4925.1 | 5517.2 | 6486.0 | 7589.1 | 7914.2 | 7372.3 | 6801.4 | 6701.1 |
| 35° | 3962.8 | 3996.7 | 4229.7 | 4679.3 | 5271.3 | 6361.5 | 7746.0 | 8321.8 | 7796.2 | 7047.3 | 6935.7 |
| 37.5° | 3652.2 | 3684.6 | 3915.8 | 4371.9 | 5027.0 | 6186.8 | 7865.6 | 8781.2 | 8300.8 | 7401.4 | 7252.7 |
| 40° | 3340.1 | 3370.8 | 3587.5 | 4029.1 | 4734.3 | 5963.6 | 7907.8 | 9230.8 | 8879.8 | 7888.3 | 7729.8 |
| 42.5° | 3053.8 | 3081.3 | 3280.2 | 3691.0 | 4406.0 | 5678.9 | 7852.7 | 9622.2 | 9399.0 | 8228.0 | 8024.2 |
| 45° | 2790.2 | 2814.3 | 2990.6 | 3374.0 | 4064.6 | 5332.8 | 7687.8 | 10042.7 | 10016.9 | 8470.6 | 8195.6 |
| 47.5° | 2489.2 | 2513.5 | 2696.3 | 3066.7 | 3723.4 | 4926.8 | 7408.0 | 10456.8 | 10875.8 | 9020.5 | 8703.5 |
| 50° | 2122.1 | 2143.2 | 2330.7 | 2712.5 | 3369.2 | 4494.9 | 7019.7 | 10782.0 | 11959.5 | 9853.5 | 9455.6 |
| 52.5° | 1687.0 | 1709.7 | 1892.5 | 2274.2 | 2948.6 | 4030.7 | 6508.6 | 10993.8 | 13211.3 | 11069.9 | 10579.7 |
| 55° | 1255.1 | 1271.3 | 1429.9 | 1772.7 | 2427.8 | 3501.8 | 5868.1 | 11053.7 | 14631.5 | 12732.7 | 12119.6 |
| 57.5° | 910.6 | 920.3 | 1022.2 | 1277.8 | 1840.7 | 2840.3 | 5090.2 | 10898.4 | 16321.7 | 14864.4 | 14092.9 |
| 60° | 737.6 | 740.8 | 771.5 | 884.8 | 1279.4 | 2092.9 | 4150.4 | 10364.7 | 18155.9 | 17612.5 | 16640.4 |
| 62.5° | 669.6 | 669.6 | 677.7 | 708.5 | 865.3 | 1381.3 | 3013.3 | 9258.3 | 20122.8 | 21085.2 | 19783.1 |
| 65° | 622.7 | 622.7 | 626.0 | 640.5 | 682.5 | 879.9 | 1902.1 | 7456.5 | 21780.6 | 25153.0 | 23506.4 |
| 67.5° | 580.7 | 582.3 | 580.7 | 585.5 | 609.8 | 650.3 | 1103.1 | 5150.0 | 22673.5 | 29368.1 | 27590.5 |
| 70° | 537.0 | 540.3 | 532.2 | 532.2 | 551.6 | 553.2 | 690.6 | 2824.1 | 21932.6 | 32900.7 | 32433.2 |
| 72.5° | 485.2 | 490.1 | 477.1 | 474.0 | 488.5 | 482.0 | 519.2 | 1355.5 | 18830.4 | 33955.2 | 35184.5 |
| 75° | 439.9 | 446.4 | 417.3 | 409.2 | 409.2 | 404.4 | 422.2 | 695.5 | 12221.5 | 27698.9 | 29626.9 |
| 77.5° | 399.5 | 412.5 | 365.5 | 339.7 | 333.2 | 318.7 | 344.5 | 425.4 | 5345.7 | 13004.4 | 12734.2 |
| 80° | 329.9 | 347.8 | 300.8 | 270.1 | 258.8 | 242.6 | 271.7 | 297.7 | 1590.0 | 3019.8 | 2892.0 |
| 82.5° | 245.9 | 253.9 | 213.5 | 192.5 | 182.8 | 171.5 | 203.8 | 207.0 | 517.6 | 1069.2 | 1208.3 |
| 85° | 156.9 | 160.1 | 131.0 | 113.3 | 108.3 | 103.5 | 129.4 | 113.3 | 197.3 | 786.1 | 1142.0 |
| 87.5° | 55.0 | 63.0 | 50.1 | 45.3 | 48.5 | 40.5 | 59.9 | 33.9 | 55.0 | 554.8 | 687.5 |
| 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)