

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: P965558

Luminaire Tested: **NVN-SB4A-727-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965558
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-SB4A-727-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16908.4 lumens
Efficiency: N/A
Efficacy: 148.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

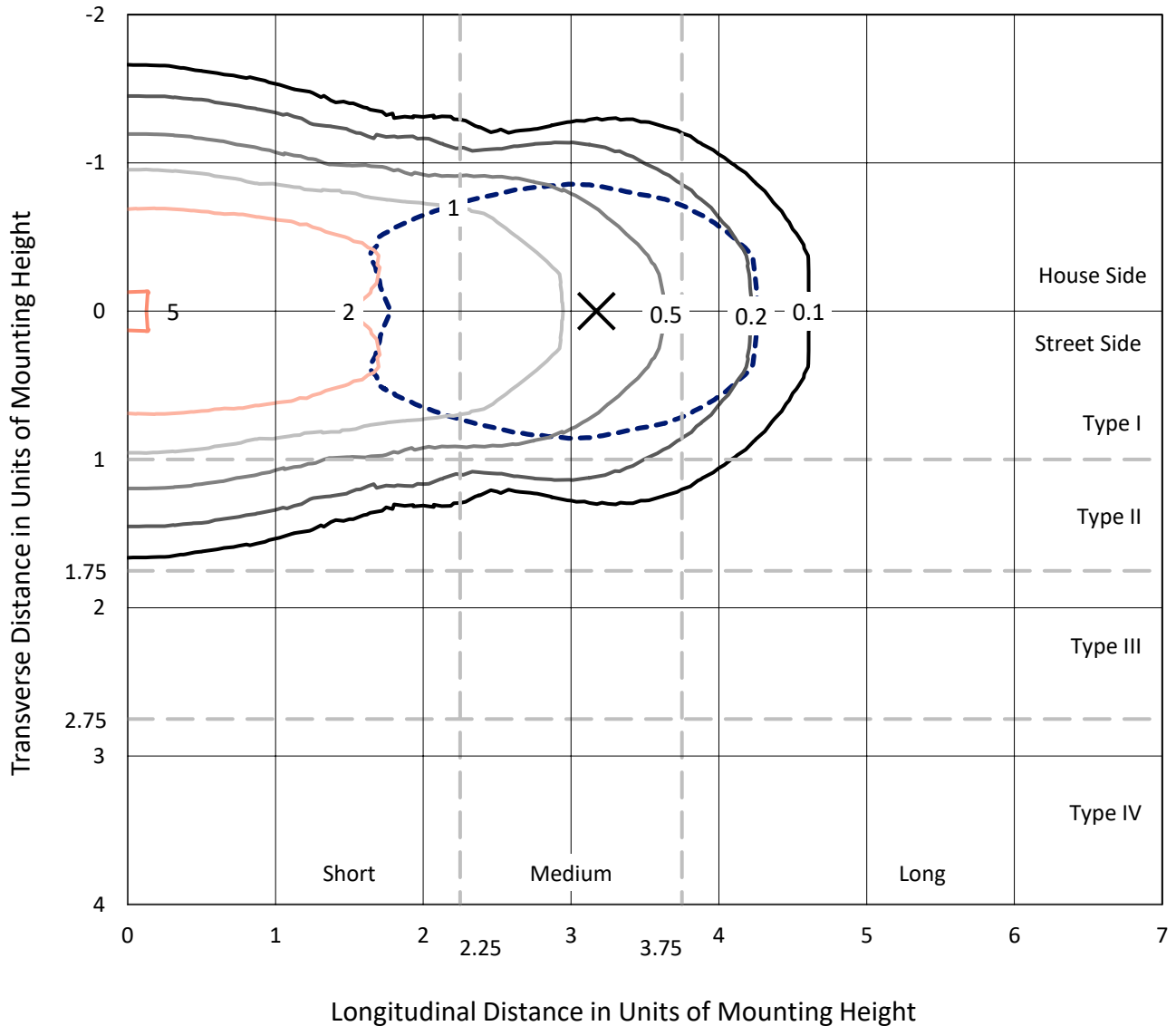
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

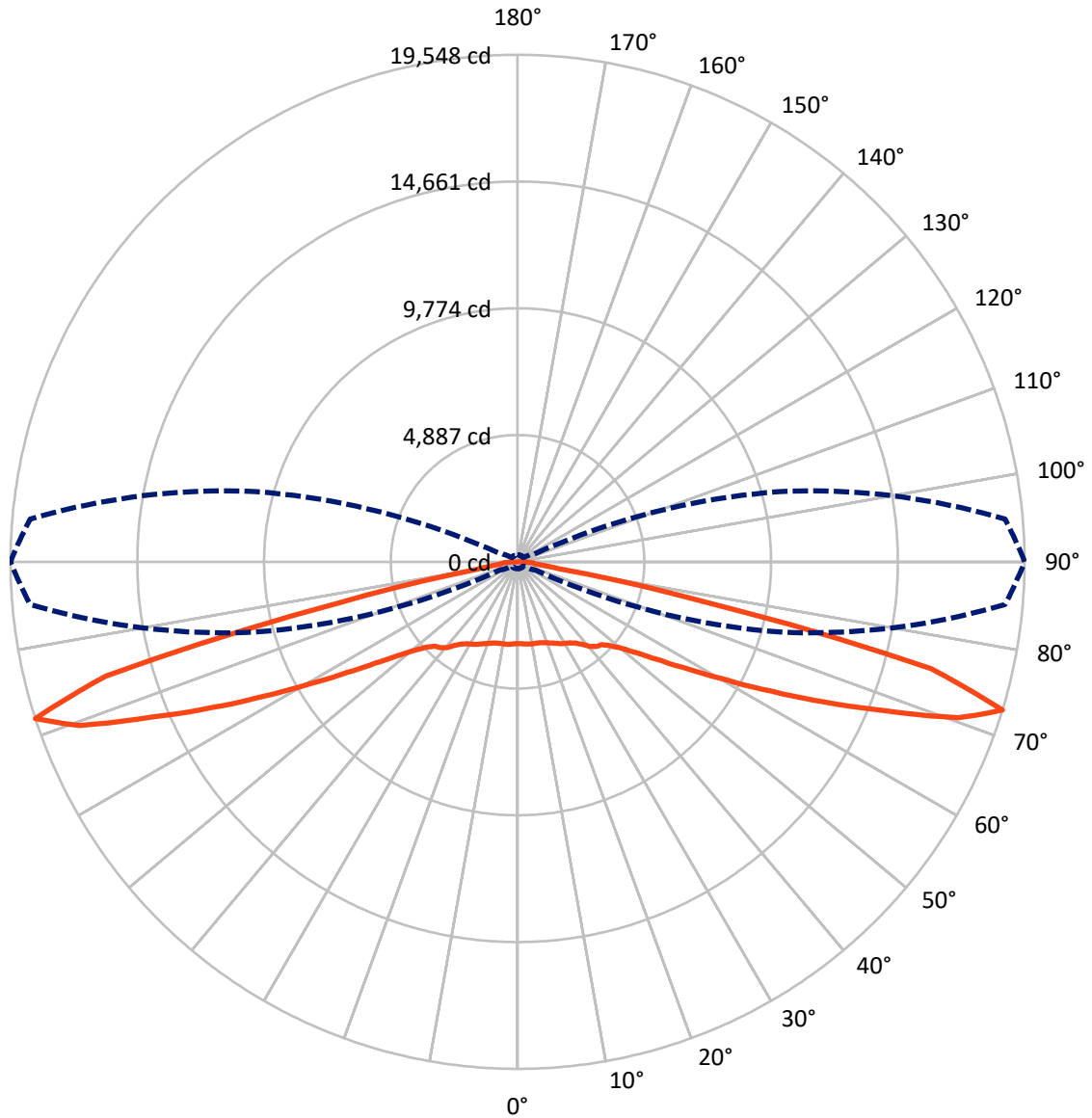
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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 | 8454.2 | 0.0 | 8454.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 8454.2 | 0.0 | 8454.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 16908.4 | 0.0 | 16908.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 306.4 | 1.8 |
| 10°-20° | 936.7 | 5.5 |
| 20°-30° | 1561.9 | 9.2 |
| 30°-40° | 2148.1 | 12.7 |
| 40°-50° | 2623.4 | 15.5 |
| 50°-60° | 3034.2 | 17.9 |
| 60°-70° | 3617.8 | 21.4 |
| 70°-80° | 2525.0 | 14.9 |
| 80°-90° | 155.1 | 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° | 16908.4 | 100.0 |
| 0°-180° | 16908.4 | 100.0 |

Coefficient of Utilization

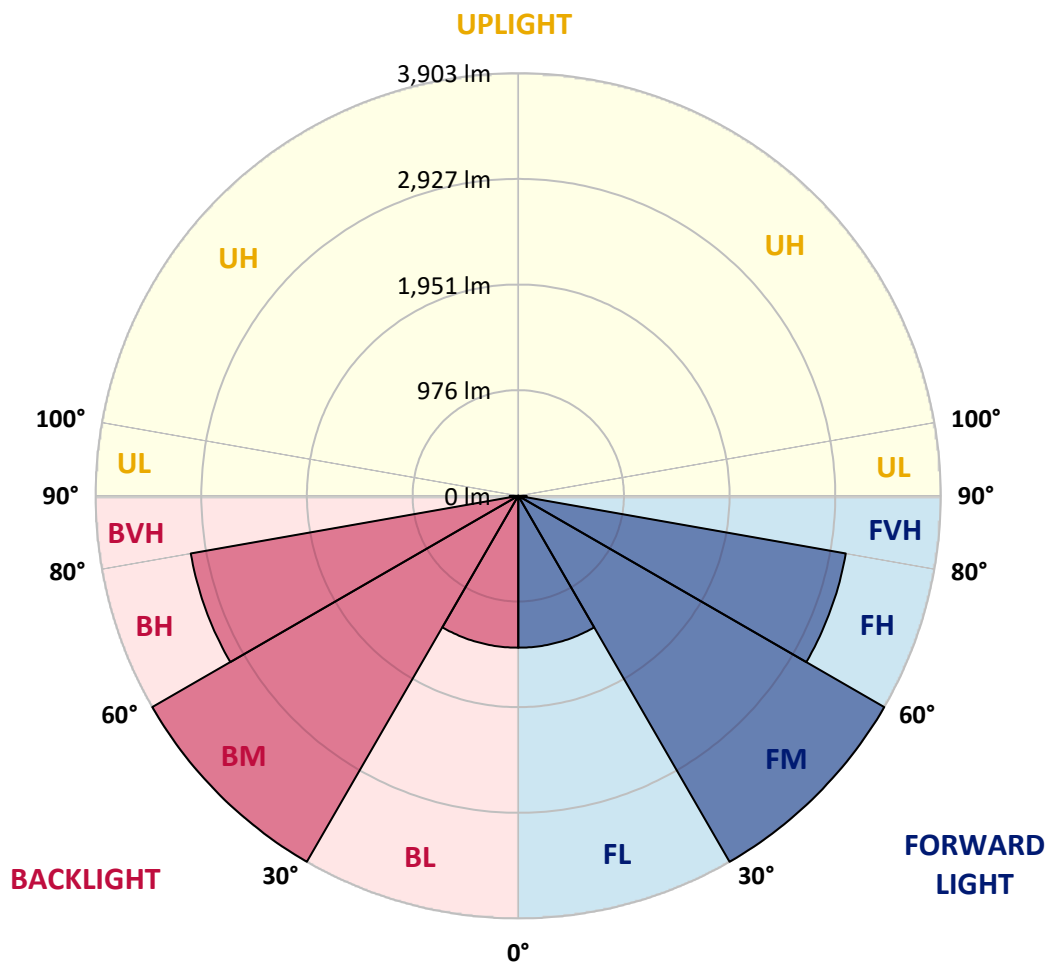


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1402.5 | 8.3 | | | |
| FM (30°-60°) | 3902.8 | 23.1 | | | |
| FH (60°-80°) | 3071.4 | 18.2 | | | G2/5000 |
| FVH (80°-90°) | 77.5 | 0.5 | | | G1/100 |
| BL (0°-30°) | 1402.5 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 3902.8 | 23.1 | B3/5000 | | |
| BH (60°-80°) | 3071.4 | 18.2 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 77.5 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4
 Type I Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 3159.6 | 3159.6 | 3159.6 | 3159.6 | 3159.6 | 3159.6 | 3159.6 | 3159.6 | 3159.6 | 3159.6 | 3159.6 |
| 2.5° | 3162.2 | 3165.8 | 3165.8 | 3163.1 | 3169.4 | 3164.0 | 3164.0 | 3161.3 | 3164.0 | 3161.3 | 3161.3 |
| 5° | 3178.4 | 3182.8 | 3184.7 | 3183.8 | 3191.8 | 3187.3 | 3187.3 | 3183.8 | 3184.7 | 3182.0 | 3182.0 |
| 7.5° | 3209.0 | 3215.2 | 3218.8 | 3223.3 | 3235.0 | 3229.6 | 3226.0 | 3215.2 | 3210.7 | 3203.5 | 3203.5 |
| 10° | 3218.8 | 3226.0 | 3237.7 | 3261.0 | 3288.0 | 3288.9 | 3278.2 | 3251.2 | 3230.5 | 3214.3 | 3211.6 |
| 12.5° | 3188.3 | 3198.1 | 3222.4 | 3270.1 | 3330.2 | 3354.5 | 3337.4 | 3292.5 | 3252.1 | 3223.3 | 3218.8 |
| 15° | 3149.6 | 3160.4 | 3197.3 | 3269.1 | 3358.1 | 3414.7 | 3412.9 | 3353.6 | 3288.9 | 3244.0 | 3236.7 |
| 17.5° | 3089.5 | 3100.2 | 3153.2 | 3253.9 | 3379.6 | 3473.1 | 3498.3 | 3437.1 | 3346.4 | 3286.3 | 3276.3 |
| 20° | 2980.7 | 2990.5 | 3064.2 | 3205.4 | 3386.9 | 3535.1 | 3600.7 | 3546.8 | 3433.5 | 3351.9 | 3336.6 |
| 22.5° | 2839.6 | 2854.9 | 2941.1 | 3121.7 | 3369.8 | 3599.8 | 3717.6 | 3680.7 | 3535.1 | 3421.9 | 3401.3 |
| 25° | 2688.7 | 2704.8 | 2805.4 | 3019.3 | 3325.7 | 3646.5 | 3855.9 | 3832.6 | 3650.1 | 3509.1 | 3480.3 |
| 27.5° | 2558.3 | 2575.4 | 2685.1 | 2917.8 | 3257.4 | 3664.6 | 3992.5 | 4004.2 | 3789.4 | 3605.2 | 3574.7 |
| 30° | 2455.9 | 2472.1 | 2588.9 | 2836.0 | 3169.4 | 3646.5 | 4112.0 | 4192.9 | 3931.4 | 3688.8 | 3644.8 |
| 32.5° | 2343.6 | 2364.3 | 2487.4 | 2736.2 | 3065.2 | 3603.4 | 4216.2 | 4396.9 | 4095.9 | 3778.7 | 3722.9 |
| 35° | 2201.6 | 2220.5 | 2349.9 | 2599.7 | 2928.5 | 3534.2 | 4303.5 | 4623.4 | 4331.3 | 3915.3 | 3853.3 |
| 37.5° | 2029.1 | 2047.0 | 2175.6 | 2428.9 | 2792.9 | 3437.1 | 4370.0 | 4878.6 | 4611.7 | 4112.0 | 4029.4 |
| 40° | 1855.7 | 1872.7 | 1993.1 | 2238.4 | 2630.3 | 3313.2 | 4393.4 | 5128.4 | 4933.3 | 4382.5 | 4294.4 |
| 42.5° | 1696.6 | 1711.9 | 1822.3 | 2050.6 | 2447.8 | 3155.1 | 4362.7 | 5345.8 | 5221.9 | 4571.2 | 4458.0 |
| 45° | 1550.1 | 1563.5 | 1661.5 | 1874.5 | 2258.2 | 2962.8 | 4271.1 | 5579.5 | 5565.1 | 4706.0 | 4553.3 |
| 47.5° | 1382.9 | 1396.5 | 1497.9 | 1703.8 | 2068.6 | 2737.2 | 4115.7 | 5809.5 | 6042.3 | 5011.5 | 4835.4 |
| 50° | 1179.0 | 1190.6 | 1294.9 | 1507.0 | 1871.9 | 2497.2 | 3899.9 | 5990.1 | 6644.4 | 5474.3 | 5253.2 |
| 52.5° | 937.3 | 949.9 | 1051.3 | 1263.4 | 1638.2 | 2239.3 | 3616.0 | 6107.9 | 7339.8 | 6150.1 | 5877.8 |
| 55° | 697.3 | 706.3 | 794.4 | 984.9 | 1348.8 | 1945.4 | 3260.1 | 6141.1 | 8128.9 | 7073.8 | 6733.3 |
| 57.5° | 505.9 | 511.3 | 568.0 | 709.9 | 1022.6 | 1578.0 | 2828.0 | 6054.9 | 9067.9 | 8258.2 | 7829.6 |
| 60° | 409.8 | 411.5 | 428.7 | 491.6 | 710.8 | 1162.8 | 2305.8 | 5758.2 | 10086.9 | 9785.0 | 9244.9 |
| 62.5° | 372.1 | 372.1 | 376.5 | 393.6 | 480.7 | 767.4 | 1674.1 | 5143.7 | 11179.6 | 11714.3 | 10990.9 |
| 65° | 345.9 | 345.9 | 347.8 | 355.9 | 379.2 | 488.8 | 1056.8 | 4142.6 | 12100.6 | 13974.2 | 13059.5 |
| 67.5° | 322.6 | 323.5 | 322.6 | 325.3 | 338.8 | 361.2 | 612.8 | 2861.2 | 12596.7 | 16316.1 | 15328.5 |
| 70° | 298.4 | 300.1 | 295.6 | 295.6 | 306.5 | 307.3 | 383.7 | 1569.0 | 12185.2 | 18278.6 | 18018.9 |
| 72.5° | 269.6 | 272.2 | 265.1 | 263.3 | 271.4 | 267.8 | 288.4 | 753.1 | 10461.7 | 18864.5 | 19547.5 |
| 75° | 244.5 | 248.0 | 231.9 | 227.3 | 227.3 | 224.7 | 234.5 | 386.4 | 6789.9 | 15388.7 | 16459.9 |
| 77.5° | 221.9 | 229.2 | 203.1 | 188.7 | 185.1 | 177.0 | 191.4 | 236.4 | 2969.9 | 7224.8 | 7074.8 |
| 80° | 183.3 | 193.2 | 167.2 | 150.1 | 143.8 | 134.8 | 151.0 | 165.3 | 883.3 | 1677.7 | 1606.7 |
| 82.5° | 136.6 | 141.0 | 118.6 | 106.9 | 101.6 | 95.2 | 113.3 | 115.0 | 287.5 | 594.0 | 671.3 |
| 85° | 87.1 | 89.0 | 72.8 | 62.9 | 60.2 | 57.5 | 71.9 | 62.9 | 109.7 | 436.8 | 634.4 |
| 87.5° | 30.5 | 35.1 | 27.9 | 25.1 | 27.0 | 22.4 | 33.2 | 18.9 | 30.5 | 308.2 | 381.9 |
| 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)