

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: P969774

Luminaire Tested: **NVN-SB6A-727-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969774
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-SB6A-727-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 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: 25584 lumens
Efficiency: N/A
Efficacy: 149.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

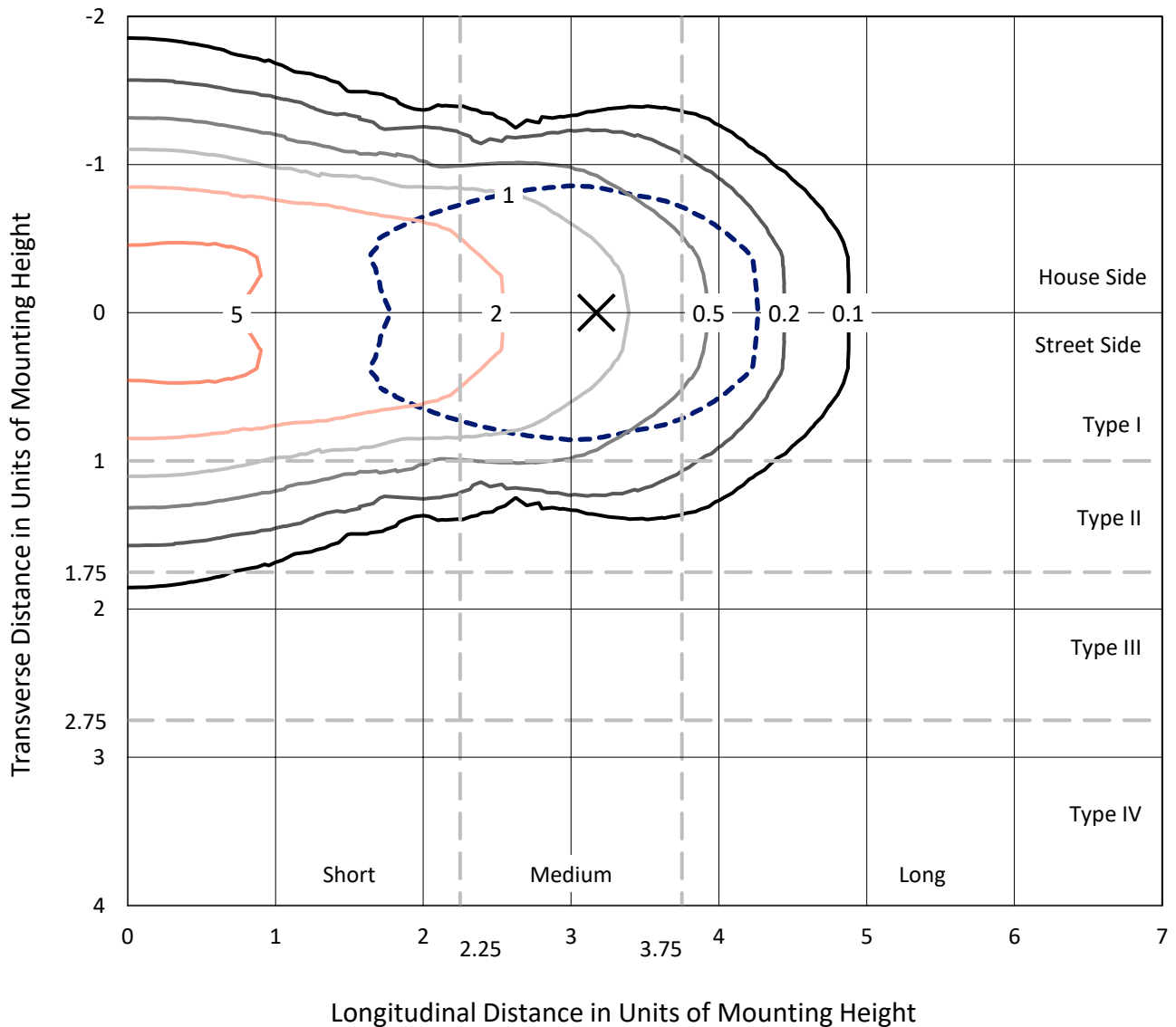
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

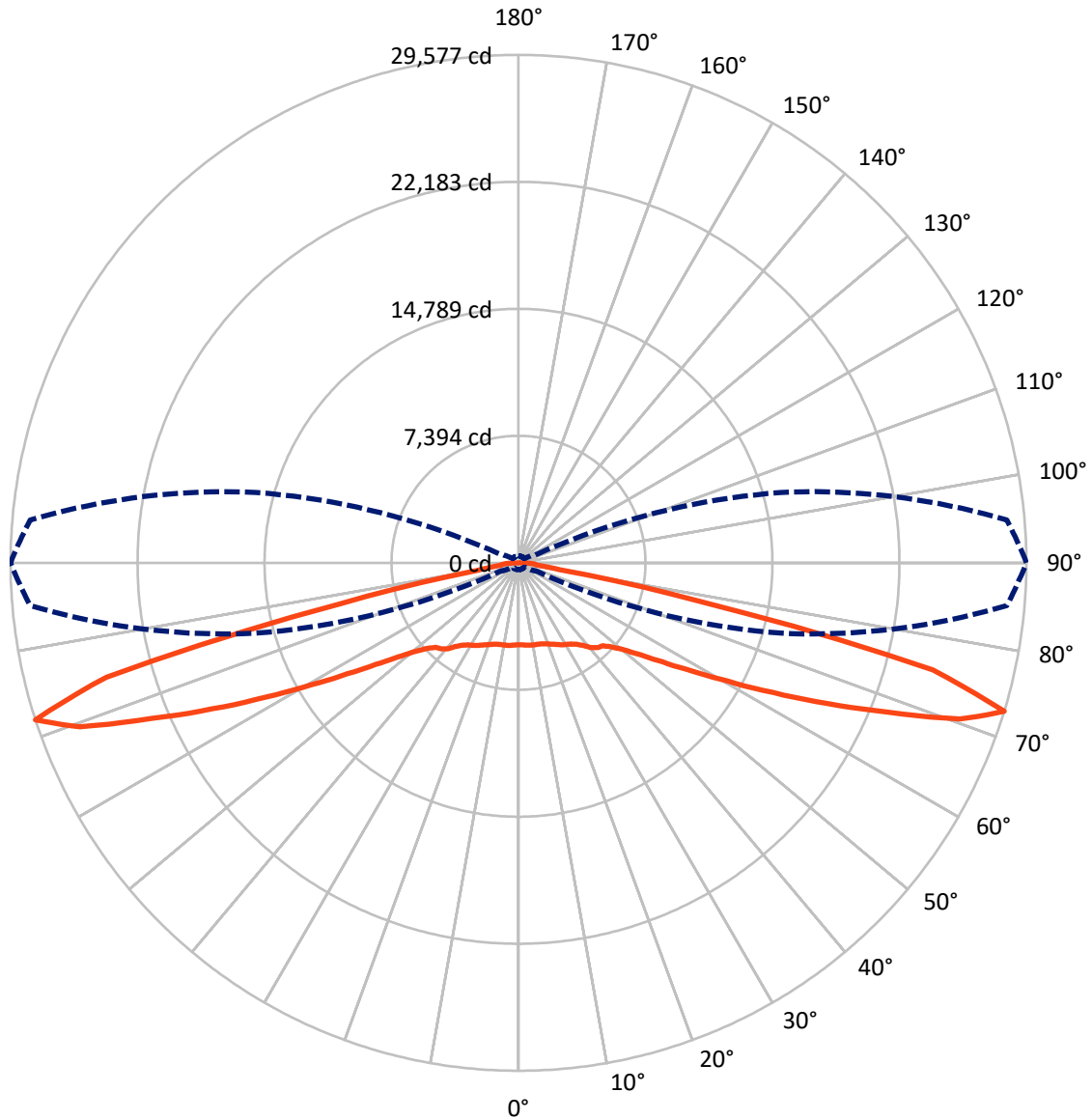
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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 | 12792.0 | 0.0 | 12792.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 12792.0 | 0.0 | 12792.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 25584.0 | 0.0 | 25584.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 463.5 | 1.8 |
| 10°-20° | 1417.3 | 5.5 |
| 20°-30° | 2363.3 | 9.2 |
| 30°-40° | 3250.2 | 12.7 |
| 40°-50° | 3969.4 | 15.5 |
| 50°-60° | 4591.0 | 17.9 |
| 60°-70° | 5474.0 | 21.4 |
| 70°-80° | 3820.5 | 14.9 |
| 80°-90° | 234.7 | 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° | 25584.0 | 100.0 |
| 0°-180° | 25584.0 | 100.0 |

Coefficient of Utilization

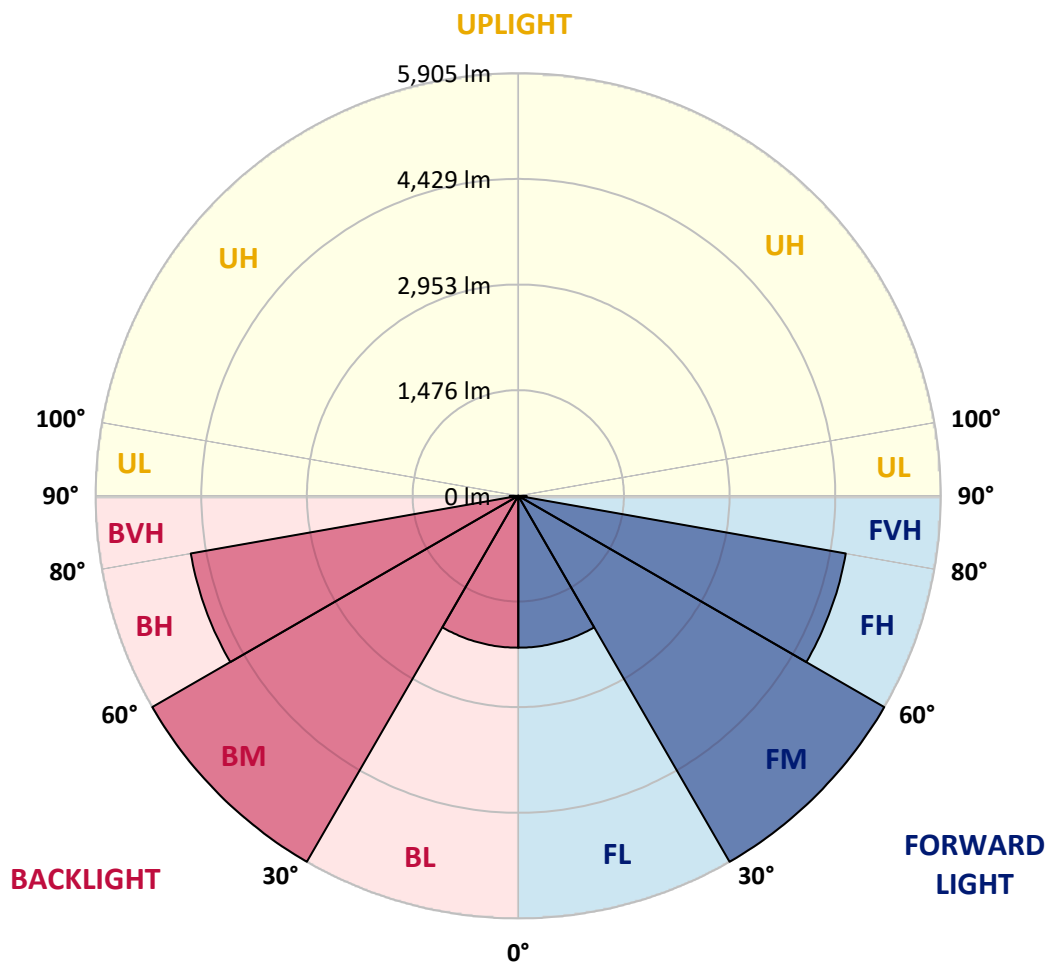


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2122.1 | 8.3 | | | |
| FM (30°-60°) | 5905.3 | 23.1 | | | |
| FH (60°-80°) | 4647.3 | 18.2 | | | G2/5000 |
| FVH (80°-90°) | 117.3 | 0.5 | | | G2/225 |
| BL (0°-30°) | 2122.1 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 5905.3 | 23.1 | B4/8500 | | |
| BH (60°-80°) | 4647.3 | 18.2 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 117.3 | 0.5 | | | G2/225 |
| 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° | 4780.6 | 4780.6 | 4780.6 | 4780.6 | 4780.6 | 4780.6 | 4780.6 | 4780.6 | 4780.6 | 4780.6 | 4780.6 |
| 2.5° | 4784.7 | 4790.1 | 4790.1 | 4786.0 | 4795.6 | 4787.5 | 4787.5 | 4783.4 | 4787.5 | 4783.4 | 4783.4 |
| 5° | 4809.2 | 4816.0 | 4818.7 | 4817.4 | 4829.6 | 4822.8 | 4822.8 | 4817.4 | 4818.7 | 4814.6 | 4814.6 |
| 7.5° | 4855.4 | 4865.0 | 4870.4 | 4877.2 | 4894.9 | 4886.7 | 4881.3 | 4865.0 | 4858.2 | 4847.2 | 4847.2 |
| 10° | 4870.4 | 4881.3 | 4898.9 | 4934.2 | 4975.0 | 4976.5 | 4960.1 | 4919.3 | 4888.0 | 4863.6 | 4859.5 |
| 12.5° | 4824.2 | 4839.1 | 4875.8 | 4947.9 | 5039.0 | 5075.7 | 5049.9 | 4981.9 | 4920.7 | 4877.2 | 4870.4 |
| 15° | 4765.6 | 4782.0 | 4837.8 | 4946.5 | 5081.1 | 5166.8 | 5164.1 | 5074.4 | 4976.5 | 4908.4 | 4897.6 |
| 17.5° | 4674.6 | 4690.9 | 4771.2 | 4923.4 | 5113.7 | 5255.2 | 5293.2 | 5200.7 | 5063.5 | 4972.4 | 4957.4 |
| 20° | 4510.1 | 4525.1 | 4636.5 | 4850.0 | 5124.6 | 5349.0 | 5448.3 | 5366.7 | 5195.3 | 5071.6 | 5048.5 |
| 22.5° | 4296.6 | 4319.7 | 4450.2 | 4723.5 | 5098.8 | 5446.8 | 5625.0 | 5569.2 | 5349.0 | 5177.7 | 5146.4 |
| 25° | 4068.1 | 4092.6 | 4244.9 | 4568.5 | 5032.1 | 5517.6 | 5834.4 | 5799.0 | 5523.0 | 5309.6 | 5266.0 |
| 27.5° | 3871.0 | 3896.8 | 4062.7 | 4414.9 | 4928.8 | 5544.7 | 6041.0 | 6058.8 | 5733.7 | 5455.0 | 5408.8 |
| 30° | 3716.0 | 3740.5 | 3917.2 | 4291.2 | 4795.6 | 5517.6 | 6221.9 | 6344.2 | 5948.6 | 5581.5 | 5514.9 |
| 32.5° | 3546.1 | 3577.4 | 3763.6 | 4140.2 | 4637.9 | 5452.3 | 6379.6 | 6653.0 | 6197.5 | 5717.4 | 5633.2 |
| 35° | 3331.2 | 3359.7 | 3555.5 | 3933.5 | 4431.2 | 5347.6 | 6511.5 | 6995.5 | 6553.6 | 5924.1 | 5830.3 |
| 37.5° | 3070.2 | 3097.3 | 3291.8 | 3675.2 | 4225.9 | 5200.7 | 6612.2 | 7381.7 | 6977.9 | 6221.9 | 6096.8 |
| 40° | 2807.8 | 2833.6 | 3015.8 | 3387.0 | 3979.8 | 5013.2 | 6647.4 | 7759.7 | 7464.7 | 6631.1 | 6497.9 |
| 42.5° | 2567.1 | 2590.2 | 2757.5 | 3102.8 | 3703.7 | 4773.8 | 6601.2 | 8088.8 | 7901.1 | 6916.7 | 6745.4 |
| 45° | 2345.4 | 2365.8 | 2514.0 | 2836.3 | 3416.8 | 4482.8 | 6462.5 | 8442.3 | 8420.5 | 7120.7 | 6889.5 |
| 47.5° | 2092.5 | 2112.9 | 2266.6 | 2578.0 | 3129.9 | 4141.6 | 6227.4 | 8790.3 | 9142.5 | 7582.9 | 7316.4 |
| 50° | 1783.9 | 1801.5 | 1959.3 | 2280.2 | 2832.2 | 3778.6 | 5901.0 | 9063.7 | 10053.5 | 8283.2 | 7948.7 |
| 52.5° | 1418.2 | 1437.2 | 1590.8 | 1911.7 | 2478.7 | 3388.3 | 5471.3 | 9241.7 | 11105.9 | 9305.7 | 8893.7 |
| 55° | 1055.1 | 1068.7 | 1201.9 | 1490.2 | 2040.9 | 2943.7 | 4932.9 | 9292.0 | 12299.7 | 10703.5 | 10188.1 |
| 57.5° | 765.5 | 773.7 | 859.4 | 1074.1 | 1547.3 | 2387.6 | 4279.0 | 9161.6 | 13720.5 | 12495.5 | 11846.9 |
| 60° | 620.0 | 622.7 | 648.5 | 743.7 | 1075.5 | 1759.4 | 3488.9 | 8712.8 | 15262.5 | 14805.6 | 13988.4 |
| 62.5° | 562.9 | 562.9 | 569.7 | 595.5 | 727.4 | 1161.1 | 2533.1 | 7782.8 | 16915.8 | 17724.8 | 16630.2 |
| 65° | 523.5 | 523.5 | 526.2 | 538.4 | 573.8 | 739.6 | 1599.0 | 6268.2 | 18309.5 | 21144.4 | 19760.3 |
| 67.5° | 488.1 | 489.4 | 488.1 | 492.2 | 512.6 | 546.6 | 927.3 | 4329.2 | 19060.0 | 24687.7 | 23193.5 |
| 70° | 451.4 | 454.2 | 447.3 | 447.3 | 463.6 | 465.0 | 580.6 | 2374.0 | 18437.3 | 27657.3 | 27264.4 |
| 72.5° | 408.0 | 411.9 | 401.1 | 398.4 | 410.6 | 405.2 | 436.4 | 1139.4 | 15829.4 | 28543.8 | 29577.2 |
| 75° | 369.8 | 375.3 | 350.8 | 344.0 | 344.0 | 339.9 | 354.9 | 584.7 | 10273.8 | 23284.5 | 24905.2 |
| 77.5° | 335.9 | 346.8 | 307.3 | 285.6 | 280.1 | 267.8 | 289.6 | 357.6 | 4493.7 | 10931.8 | 10704.8 |
| 80° | 277.4 | 292.3 | 252.9 | 227.0 | 217.5 | 204.0 | 228.5 | 250.2 | 1336.6 | 2538.5 | 2431.1 |
| 82.5° | 206.6 | 213.5 | 179.5 | 161.8 | 153.6 | 144.1 | 171.3 | 174.0 | 435.1 | 898.7 | 1015.7 |
| 85° | 131.9 | 134.6 | 110.1 | 95.2 | 91.1 | 87.0 | 108.8 | 95.2 | 165.8 | 660.8 | 959.9 |
| 87.5° | 46.2 | 53.0 | 42.1 | 38.0 | 40.8 | 34.0 | 50.3 | 28.6 | 46.2 | 466.4 | 577.9 |
| 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)