

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: P524173

Luminaire Tested: **IFLD-L-SA7E-935-U-66**

Issue Date: 05/27/2021

Test Information

Test Method: LM-79-08
Report Number: P524173
Test Lab: INNOVATION CENTER(G2)
Issue Date: 05/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-935-U-66
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 66 distribution lens
Light Source: (112) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

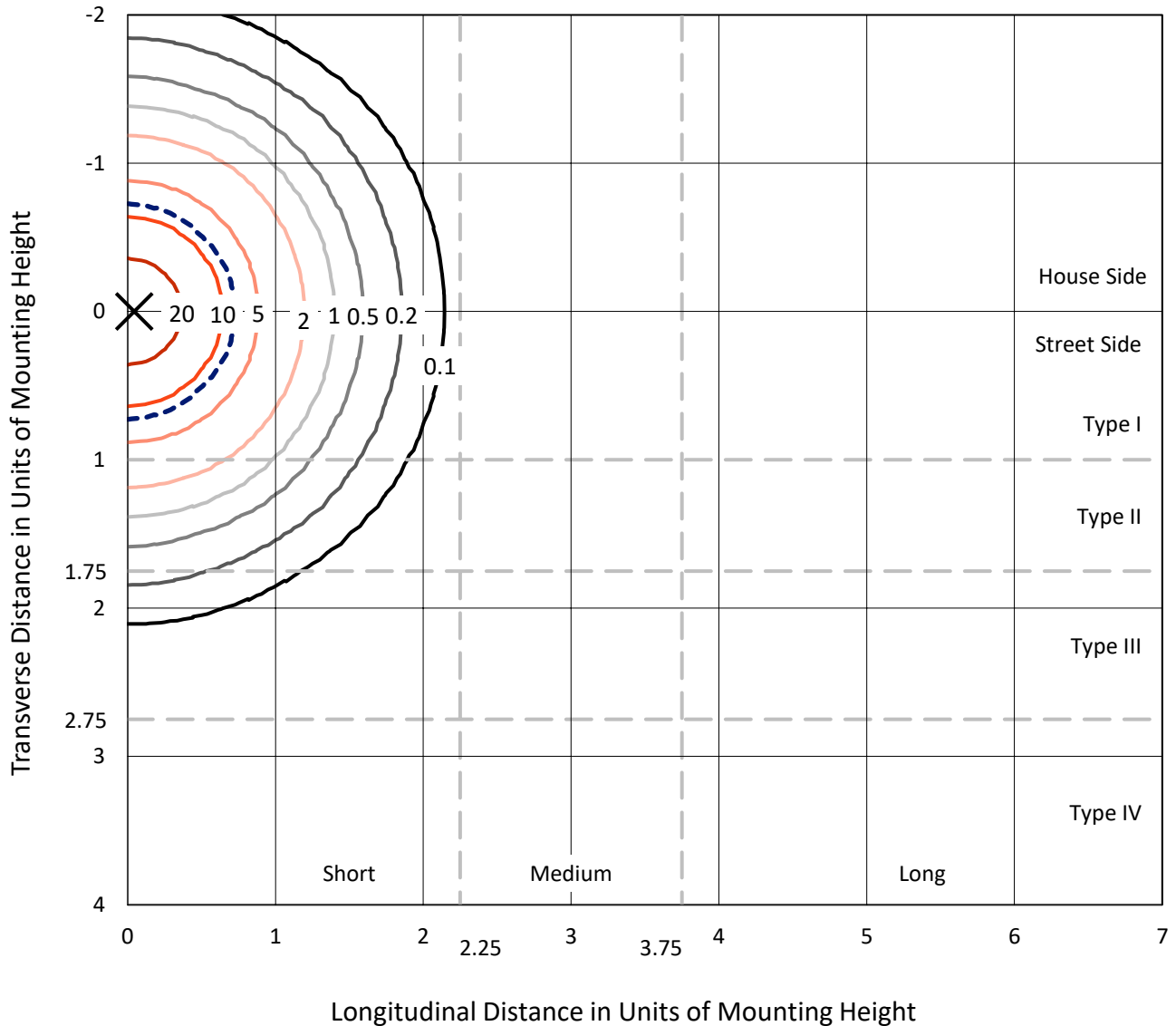
Lumens per Lamp: N/A
Luminaire Lumens: 38891.8 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 532.7
Input Voltage (V): 120
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

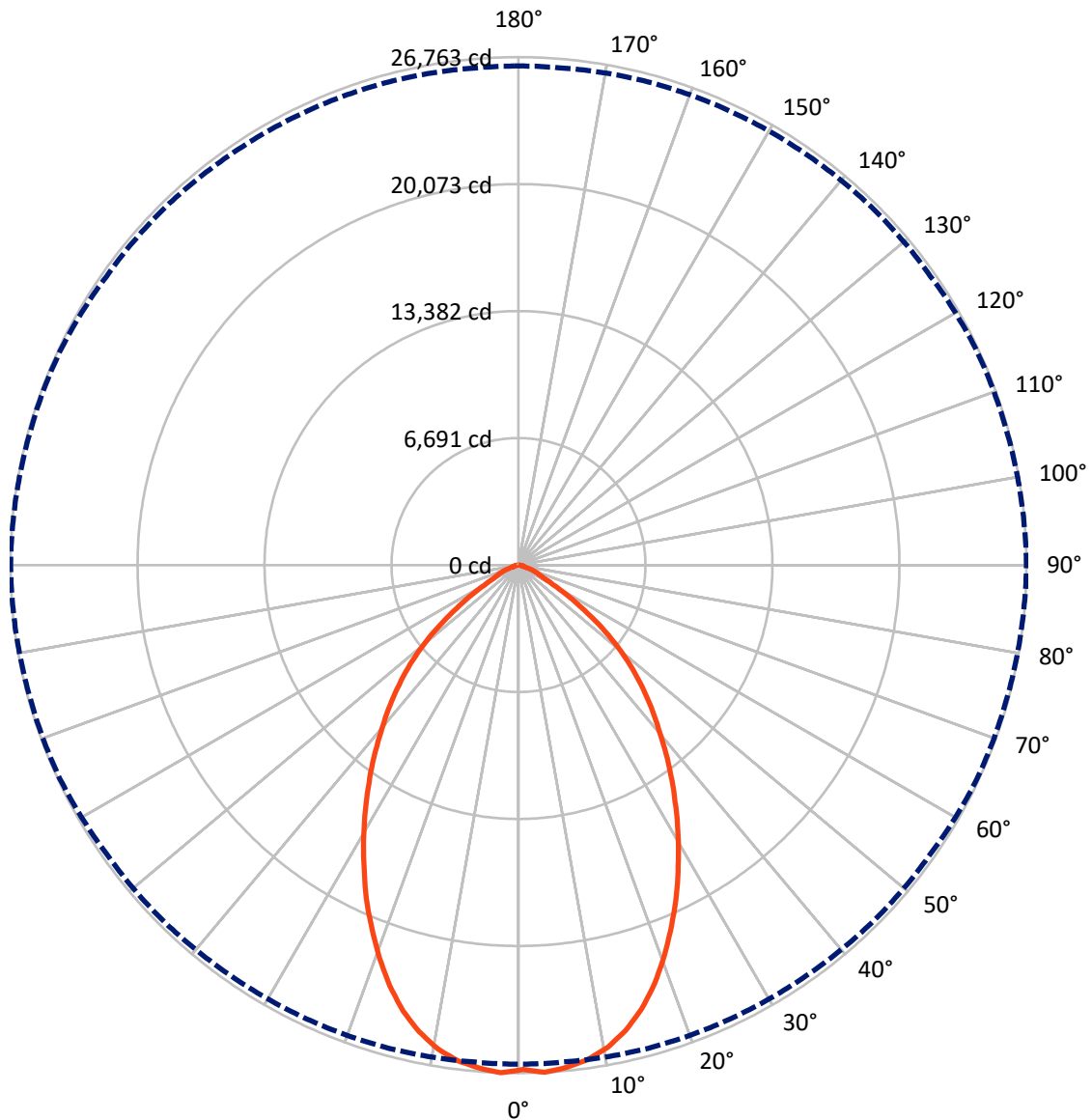
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 29.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 19445.9 | 0.0 | 19445.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 19445.9 | 0.0 | 19445.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 38891.8 | 0.0 | 38891.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 2495.6 | 6.4 |
| 10°-20° | 6705.7 | 17.2 |
| 20°-30° | 8675.8 | 22.3 |
| 30°-40° | 8556.4 | 22.0 |
| 40°-50° | 6922.5 | 17.8 |
| 50°-60° | 3769.1 | 9.7 |
| 60°-70° | 1194.2 | 3.1 |
| 70°-80° | 462.1 | 1.2 |
| 80°-90° | 110.4 | 0.3 |
| 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° | 38891.8 | 100.0 |
| 0°-180° | 38891.8 | 100.0 |

Coefficient of Utilization



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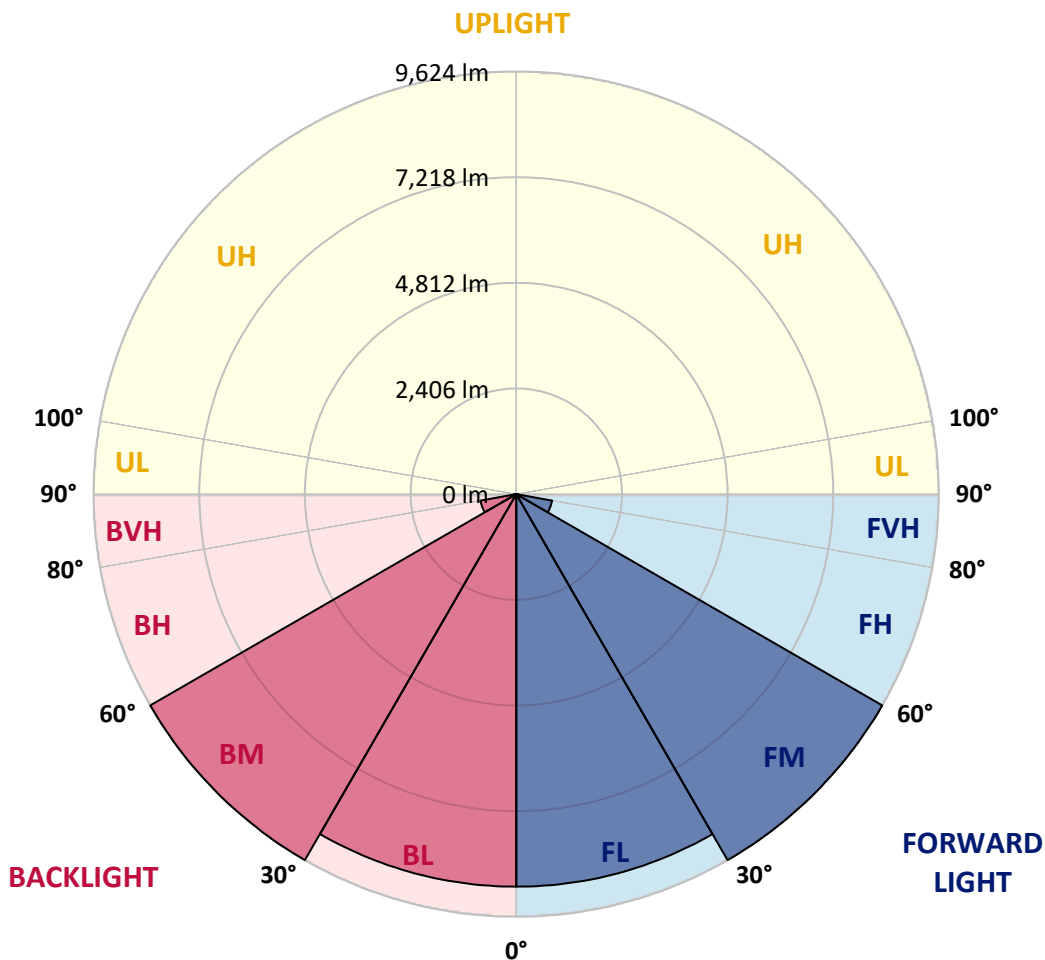
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 8938.5 | 23.0 | | | |
| FM (30°-60°) | 9624.0 | 24.7 | | | |
| FH (60°-80°) | 828.1 | 2.1 | | | G1/1800 |
| FVH (80°-90°) | 55.2 | 0.1 | | | G1/100 |
| BL (0°-30°) | 8938.5 | 23.0 | B5 | | |
| BM (30°-60°) | 9624.0 | 24.7 | B5 | | |
| BH (60°-80°) | 828.1 | 2.1 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 55.2 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 26583.5 | 26583.5 | 26583.5 | 26583.5 | 26583.5 | 26583.5 | 26583.5 | 26583.5 | 26583.5 | 26583.5 | 26583.5 |
| 2.5° | 26297.0 | 26291.4 | 26358.8 | 26386.9 | 26420.6 | 26488.0 | 26510.5 | 26656.6 | 26673.5 | 26729.6 | 26763.4 |
| 5° | 26252.0 | 26229.6 | 26297.0 | 26308.2 | 26347.6 | 26358.8 | 26392.5 | 26493.6 | 26482.4 | 26566.7 | 26583.5 |
| 7.5° | 26010.4 | 25982.3 | 26038.5 | 26049.7 | 26105.9 | 26089.1 | 26145.3 | 26218.3 | 26218.3 | 26280.1 | 26308.2 |
| 10° | 25471.0 | 25465.4 | 25521.6 | 25527.2 | 25605.8 | 25589.0 | 25678.9 | 25695.7 | 25740.7 | 25785.6 | 25836.2 |
| 12.5° | 24824.8 | 24751.8 | 24824.8 | 24796.7 | 24903.5 | 24841.7 | 24965.3 | 25004.6 | 25027.1 | 25105.7 | 25145.1 |
| 15° | 23993.2 | 23903.3 | 23953.9 | 23925.8 | 23993.2 | 23914.5 | 24043.8 | 24122.4 | 24150.5 | 24229.2 | 24268.5 |
| 17.5° | 22880.6 | 22807.6 | 22818.8 | 22779.5 | 22824.4 | 22762.6 | 22886.2 | 23009.9 | 23049.2 | 23133.5 | 23189.7 |
| 20° | 21481.5 | 21481.5 | 21487.1 | 21453.4 | 21492.7 | 21430.9 | 21509.6 | 21700.6 | 21740.0 | 21852.3 | 21947.9 |
| 22.5° | 20116.1 | 20116.1 | 20132.9 | 20088.0 | 20099.2 | 20071.1 | 20155.4 | 20340.8 | 20402.6 | 20520.6 | 20638.6 |
| 25° | 18806.8 | 18784.4 | 18795.6 | 18756.3 | 18711.3 | 18722.6 | 18823.7 | 18941.7 | 19076.5 | 19228.3 | 19318.2 |
| 27.5° | 17559.4 | 17587.5 | 17520.1 | 17492.0 | 17458.3 | 17396.5 | 17514.5 | 17660.6 | 17756.1 | 17879.7 | 17924.7 |
| 30° | 16227.7 | 16283.9 | 16233.3 | 16210.9 | 16126.6 | 16047.9 | 16171.5 | 16317.6 | 16413.1 | 16531.1 | 16581.7 |
| 32.5° | 15042.1 | 15025.2 | 14980.3 | 14929.7 | 14845.4 | 14783.6 | 14834.2 | 15002.8 | 15075.8 | 15199.4 | 15216.3 |
| 35° | 13772.2 | 13761.0 | 13732.9 | 13631.7 | 13603.6 | 13530.6 | 13575.5 | 13721.6 | 13777.8 | 13850.9 | 13907.1 |
| 37.5° | 12530.4 | 12491.1 | 12479.8 | 12440.5 | 12389.9 | 12373.1 | 12373.1 | 12451.7 | 12507.9 | 12581.0 | 12637.2 |
| 40° | 11299.8 | 11311.1 | 11277.4 | 11243.6 | 11226.8 | 11204.3 | 11209.9 | 11254.9 | 11299.8 | 11333.5 | 11367.3 |
| 42.5° | 10187.3 | 10125.5 | 10103.0 | 10069.3 | 10086.1 | 10114.2 | 10052.4 | 10119.8 | 10176.0 | 10176.0 | 10249.1 |
| 45° | 8911.8 | 8939.8 | 8951.1 | 9007.3 | 9007.3 | 8979.2 | 8956.7 | 8990.4 | 9046.6 | 9041.0 | 9114.0 |
| 47.5° | 7799.2 | 7765.5 | 7793.6 | 7877.9 | 7950.9 | 7962.1 | 7894.7 | 7911.6 | 7928.4 | 7900.3 | 7967.8 |
| 50° | 6579.9 | 6591.1 | 6585.5 | 6714.7 | 6860.8 | 6810.2 | 6759.7 | 6776.5 | 6770.9 | 6770.9 | 6782.1 |
| 52.5° | 5253.8 | 5281.9 | 5248.2 | 5433.6 | 5590.9 | 5551.6 | 5517.9 | 5517.9 | 5546.0 | 5540.3 | 5534.7 |
| 55° | 4045.7 | 4034.5 | 3961.4 | 4051.3 | 4191.8 | 4197.4 | 4146.8 | 4169.3 | 4197.4 | 4225.5 | 4219.9 |
| 57.5° | 3011.8 | 2978.1 | 2876.9 | 2882.6 | 3039.9 | 3079.2 | 3034.3 | 3028.6 | 3062.4 | 3073.6 | 3135.4 |
| 60° | 2028.5 | 2022.8 | 1932.9 | 1927.3 | 1989.1 | 2095.9 | 2045.3 | 2045.3 | 2056.6 | 2073.4 | 2090.3 |
| 62.5° | 1387.9 | 1399.1 | 1365.4 | 1359.8 | 1371.0 | 1460.9 | 1455.3 | 1449.7 | 1444.1 | 1466.6 | 1460.9 |
| 65° | 1090.1 | 1095.7 | 1084.5 | 1084.5 | 1090.1 | 1129.4 | 1168.8 | 1174.4 | 1180.0 | 1185.6 | 1180.0 |
| 67.5° | 876.6 | 882.2 | 870.9 | 882.2 | 882.2 | 887.8 | 944.0 | 966.5 | 972.1 | 972.1 | 966.5 |
| 70° | 674.3 | 696.8 | 708.0 | 708.0 | 708.0 | 708.0 | 747.3 | 775.4 | 769.8 | 736.1 | 702.4 |
| 72.5° | 337.1 | 410.2 | 567.5 | 573.1 | 567.5 | 561.9 | 584.4 | 612.5 | 606.9 | 427.0 | 320.3 |
| 75° | 224.8 | 241.6 | 443.9 | 466.4 | 460.8 | 438.3 | 460.8 | 494.5 | 483.2 | 275.3 | 264.1 |
| 77.5° | 129.2 | 140.5 | 297.8 | 342.8 | 370.9 | 320.3 | 365.2 | 398.9 | 382.1 | 224.8 | 219.1 |
| 80° | 101.1 | 95.5 | 213.5 | 264.1 | 252.9 | 202.3 | 297.8 | 320.3 | 292.2 | 168.6 | 151.7 |
| 82.5° | 61.8 | 61.8 | 140.5 | 202.3 | 185.4 | 118.0 | 207.9 | 247.2 | 219.1 | 123.6 | 112.4 |
| 85° | 33.7 | 39.3 | 67.4 | 101.1 | 106.8 | 78.7 | 112.4 | 134.9 | 134.9 | 78.7 | 78.7 |
| 87.5° | 16.9 | 16.9 | 22.5 | 22.5 | 28.1 | 33.7 | 33.7 | 39.3 | 28.1 | 22.5 | 22.5 |
| 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)