

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P1318727

Luminaire Tested: LDSQA3D20R709830D010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R709830D010 3LSQCA45R 1MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 98CRI , 3LSQCA45R 1MMS TRII
Light Source: -
Ballast/Driver: -

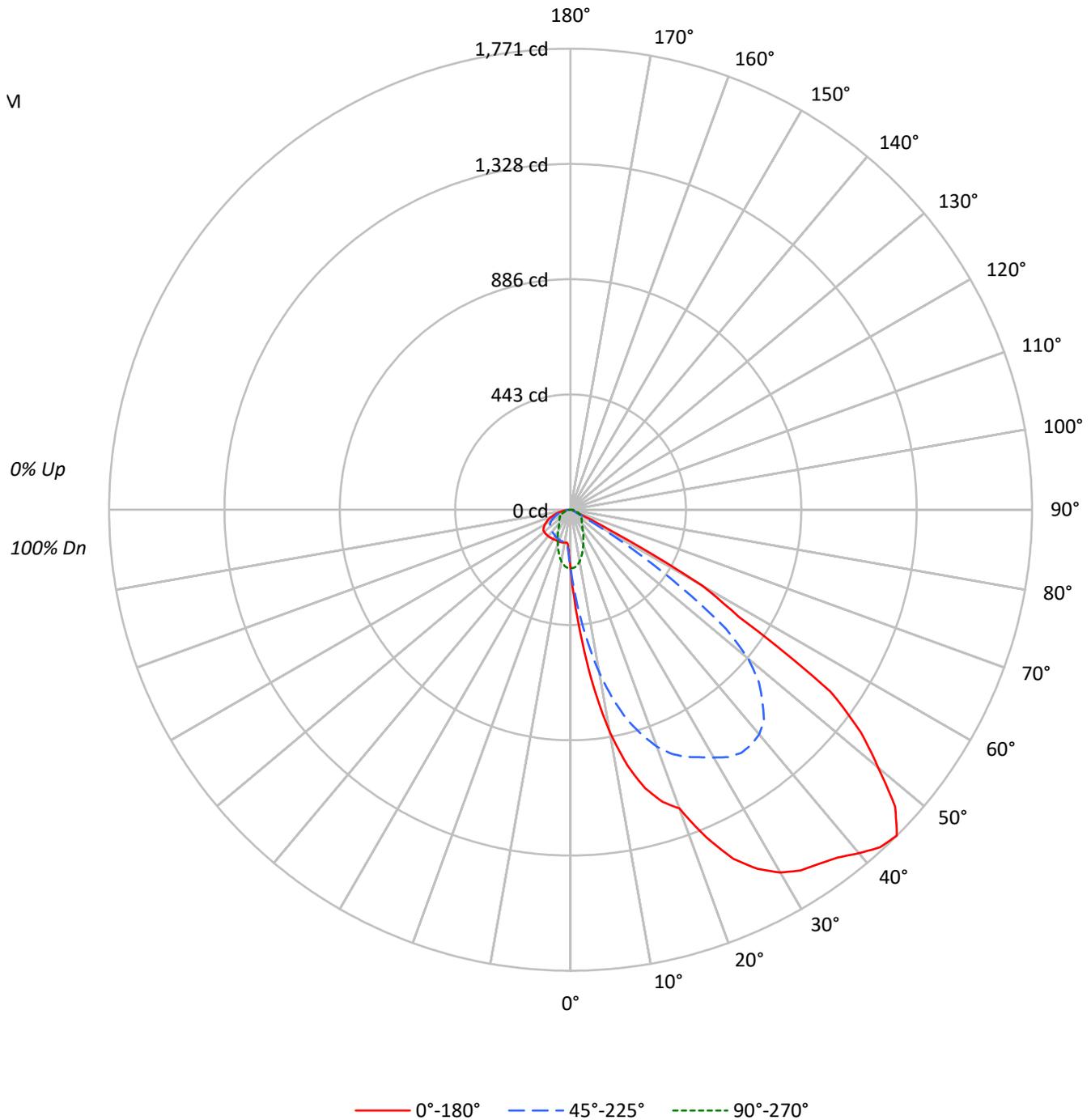
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1530.0 lumens
Efficiency: N/A
Efficacy: 55.8 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
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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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | | | | |
| RC | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | | | 0 | |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1 | 110 | 106 | 103 | 99 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 89 | 89 | 89 | 87 |
| 2 | 101 | 94 | 88 | 83 | 99 | 92 | 87 | 82 | 89 | 84 | 80 | 86 | 82 | 78 | 83 | 79 | 77 | 77 | 77 | 77 | 75 |
| 3 | 93 | 83 | 76 | 70 | 90 | 82 | 75 | 69 | 79 | 73 | 68 | 76 | 71 | 67 | 74 | 69 | 66 | 66 | 66 | 66 | 64 |
| 4 | 85 | 74 | 66 | 59 | 83 | 72 | 65 | 59 | 70 | 63 | 58 | 68 | 62 | 57 | 66 | 61 | 57 | 57 | 57 | 57 | 54 |
| 5 | 78 | 66 | 57 | 51 | 76 | 65 | 57 | 51 | 63 | 55 | 50 | 61 | 54 | 49 | 59 | 53 | 49 | 49 | 49 | 49 | 47 |
| 6 | 72 | 59 | 50 | 44 | 70 | 58 | 50 | 44 | 56 | 49 | 43 | 54 | 48 | 43 | 53 | 47 | 43 | 43 | 43 | 43 | 41 |
| 7 | 66 | 53 | 44 | 38 | 65 | 52 | 44 | 38 | 51 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 37 | 37 | 37 | 37 | 35 |
| 8 | 61 | 48 | 40 | 34 | 60 | 47 | 39 | 34 | 46 | 39 | 33 | 45 | 38 | 33 | 44 | 38 | 33 | 33 | 33 | 33 | 31 |
| 9 | 57 | 44 | 35 | 30 | 56 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 29 | 29 | 29 | 29 | 28 |
| 10 | 53 | 40 | 32 | 27 | 52 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 26 | 37 | 31 | 26 | 26 | 26 | 26 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|--------|-------|-------|-------|
| 0° | 38388 | 38388 | 38388 | 38388 | 38388 |
| 5° | 87357 | 69930 | 37999 | 24013 | 22440 |
| 10° | 151358 | 111048 | 35238 | 21895 | 22420 |
| 15° | 197590 | 148326 | 30756 | 22323 | 23143 |
| 20° | 223816 | 177374 | 26300 | 22653 | 24064 |
| 25° | 281087 | 198996 | 22043 | 22917 | 24665 |
| 30° | 319955 | 218573 | 18813 | 23367 | 26111 |
| 35° | 349175 | 239742 | 16378 | 23758 | 27605 |
| 40° | 387119 | 253261 | 15108 | 24708 | 29856 |
| 45° | 431271 | 253570 | 14881 | 26037 | 32345 |
| 50° | 413069 | 238432 | 14736 | 27409 | 35179 |
| 55° | 365748 | 154454 | 15133 | 28885 | 38043 |
| 60° | 200329 | 33136 | 15259 | 29450 | 39439 |
| 65° | 14304 | 8069 | 14915 | 29219 | 39814 |
| 70° | 6899 | 7704 | 13847 | 27695 | 38421 |
| 75° | 6122 | 8118 | 13175 | 26417 | 35533 |
| 80° | 6050 | 7538 | 12100 | 24200 | 33324 |
| 85° | 6126 | 9090 | 12054 | 21144 | 30233 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 431271 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 29.1 | 1.9 |
| 10°-20° | 124.3 | 8.1 |
| 20°-30° | 238.6 | 15.6 |
| 30°-40° | 337.4 | 22.0 |
| 40°-50° | 381.6 | 24.9 |
| 50°-60° | 302.2 | 19.8 |
| 60°-70° | 81.5 | 5.3 |
| 70°-80° | 27.1 | 1.8 |
| 80°-90° | 8.3 | 0.5 |
| 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°-30° | 392.0 | 25.6 |
| 0°-40° | 729.3 | 47.7 |
| 0°-60° | 1413.2 | 92.4 |
| 0°-90° | 1530.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1530.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-----|------|------|------|
| 0° | 223 | 223 | 223 | 223 | 223 | |
| 5° | 505 | 404 | 220 | 139 | 130 | 60 |
| 15° | 1108 | 832 | 172 | 125 | 130 | 312 |
| 25° | 1479 | 1047 | 116 | 121 | 130 | 678 |
| 35° | 1661 | 1140 | 78 | 113 | 131 | 1046 |
| 45° | 1771 | 1041 | 61 | 107 | 133 | 1325 |
| 55° | 1218 | 514 | 50 | 96 | 127 | 989 |
| 65° | 35 | 20 | 37 | 72 | 98 | 127 |
| 75° | 9 | 12 | 20 | 40 | 53 | 10 |
| 85° | 3 | 5 | 6 | 11 | 15 | 3 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 45° | 67.5° | 90° | 112.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|
| 0° | 222.9 | 222.9 | 222.9 | 222.9 | 222.9 | 222.9 | 222.9 | 222.9 | 222.9 | 222.9 | 222.9 |
| 2.5° | 346.5 | 346.5 | 345.0 | 338.9 | 335.8 | 328.2 | 322.1 | 305.3 | 264.1 | 224.4 | 192.3 |
| 5° | 505.3 | 512.9 | 502.2 | 500.7 | 491.5 | 477.8 | 468.6 | 404.5 | 305.3 | 219.8 | 164.9 |
| 7.5° | 693.0 | 696.1 | 693.0 | 677.8 | 664.0 | 641.1 | 619.8 | 519.0 | 346.5 | 212.2 | 145.0 |
| 10° | 865.5 | 860.9 | 851.8 | 841.1 | 821.2 | 796.8 | 760.2 | 635.0 | 386.2 | 201.5 | 132.8 |
| 12.5° | 1006.0 | 1004.4 | 993.7 | 983.1 | 958.6 | 926.6 | 889.9 | 740.3 | 419.8 | 187.8 | 126.7 |
| 15° | 1108.2 | 1108.2 | 1097.5 | 1085.3 | 1062.4 | 1036.5 | 995.3 | 831.9 | 447.3 | 172.5 | 120.6 |
| 17.5° | 1176.9 | 1173.9 | 1166.2 | 1157.1 | 1138.8 | 1112.8 | 1080.8 | 905.2 | 465.6 | 157.2 | 119.1 |
| 20° | 1221.2 | 1219.7 | 1213.6 | 1199.8 | 1184.6 | 1164.7 | 1135.7 | 967.8 | 473.2 | 143.5 | 117.5 |
| 22.5° | 1363.1 | 1350.9 | 1328.0 | 1299.0 | 1262.4 | 1215.1 | 1175.4 | 1015.1 | 470.2 | 128.2 | 114.5 |
| 25° | 1479.2 | 1474.6 | 1450.2 | 1415.0 | 1366.2 | 1305.1 | 1239.5 | 1047.2 | 454.9 | 116.0 | 111.4 |
| 27.5° | 1555.5 | 1547.9 | 1525.0 | 1486.8 | 1434.9 | 1375.4 | 1314.3 | 1071.6 | 433.5 | 105.3 | 106.9 |
| 30° | 1608.9 | 1604.3 | 1581.4 | 1538.7 | 1485.3 | 1419.6 | 1357.0 | 1099.1 | 404.5 | 94.6 | 102.3 |
| 32.5° | 1642.5 | 1637.9 | 1615.0 | 1576.9 | 1525.0 | 1456.3 | 1384.5 | 1126.5 | 369.4 | 85.5 | 97.7 |
| 35° | 1660.8 | 1656.2 | 1630.3 | 1596.7 | 1547.9 | 1480.7 | 1404.4 | 1140.3 | 326.7 | 77.9 | 93.1 |
| 37.5° | 1683.7 | 1674.6 | 1639.4 | 1598.2 | 1549.4 | 1486.8 | 1410.5 | 1138.8 | 283.9 | 71.7 | 90.1 |
| 40° | 1721.9 | 1697.4 | 1647.1 | 1592.1 | 1541.7 | 1479.2 | 1405.9 | 1126.5 | 236.6 | 67.2 | 87.0 |
| 42.5° | 1758.5 | 1723.4 | 1648.6 | 1583.0 | 1526.5 | 1465.4 | 1389.1 | 1099.1 | 184.7 | 64.1 | 85.5 |
| 45° | 1770.7 | 1718.8 | 1627.2 | 1561.6 | 1508.2 | 1445.6 | 1366.2 | 1041.1 | 125.2 | 61.1 | 82.4 |
| 47.5° | 1689.8 | 1651.7 | 1575.3 | 1526.5 | 1476.1 | 1415.0 | 1332.6 | 980.0 | 71.7 | 58.0 | 79.4 |
| 50° | 1541.7 | 1517.3 | 1474.6 | 1444.1 | 1416.6 | 1373.8 | 1292.9 | 889.9 | 42.7 | 55.0 | 76.3 |
| 52.5° | 1404.4 | 1396.7 | 1366.2 | 1341.8 | 1326.5 | 1306.7 | 1233.4 | 751.0 | 35.1 | 53.4 | 73.3 |
| 55° | 1218.1 | 1193.7 | 1186.1 | 1176.9 | 1209.0 | 1207.4 | 1108.2 | 514.4 | 33.6 | 50.4 | 70.2 |
| 57.5° | 764.8 | 775.5 | 815.1 | 888.4 | 975.4 | 1025.8 | 1022.7 | 274.8 | 32.1 | 47.3 | 65.6 |
| 60° | 581.6 | 580.1 | 592.3 | 622.8 | 686.9 | 758.7 | 825.8 | 96.2 | 30.5 | 44.3 | 62.6 |
| 62.5° | 174.0 | 178.6 | 215.2 | 316.0 | 378.6 | 467.1 | 425.9 | 22.9 | 29.0 | 39.7 | 56.5 |
| 65° | 35.1 | 36.6 | 36.6 | 41.2 | 50.4 | 76.3 | 93.1 | 19.8 | 27.5 | 36.6 | 51.9 |
| 67.5° | 15.3 | 15.3 | 15.3 | 16.8 | 16.8 | 19.8 | 16.8 | 18.3 | 24.4 | 32.1 | 45.8 |
| 70° | 13.7 | 13.7 | 13.7 | 13.7 | 13.7 | 13.7 | 15.3 | 15.3 | 21.4 | 27.5 | 39.7 |
| 72.5° | 10.7 | 10.7 | 10.7 | 12.2 | 12.2 | 12.2 | 12.2 | 13.7 | 18.3 | 22.9 | 33.6 |
| 75° | 9.2 | 9.2 | 9.2 | 9.2 | 10.7 | 10.7 | 10.7 | 12.2 | 15.3 | 19.8 | 27.5 |
| 77.5° | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 9.2 | 9.2 | 9.2 | 12.2 | 15.3 | 22.9 |
| 80° | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 7.6 | 9.2 | 12.2 | 16.8 |
| 82.5° | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 6.1 | 7.6 | 9.2 | 12.2 |
| 85° | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 4.6 | 4.6 | 6.1 | 7.6 |
| 87.5° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 3.1 | 3.1 | 3.1 | 4.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 135° | 157.5° | 180° |
|-------|-------|--------|-------|
| 0° | 222.9 | 222.9 | 222.9 |
| 2.5° | 169.4 | 160.3 | 155.7 |
| 5° | 138.9 | 131.3 | 129.8 |
| 7.5° | 128.2 | 126.7 | 126.7 |
| 10° | 125.2 | 126.7 | 128.2 |
| 12.5° | 125.2 | 128.2 | 129.8 |
| 15° | 125.2 | 128.2 | 129.8 |
| 17.5° | 125.2 | 128.2 | 129.8 |
| 20° | 123.6 | 128.2 | 131.3 |
| 22.5° | 122.1 | 128.2 | 129.8 |
| 25° | 120.6 | 128.2 | 129.8 |
| 27.5° | 119.1 | 126.7 | 129.8 |
| 30° | 117.5 | 126.7 | 131.3 |
| 32.5° | 114.5 | 126.7 | 131.3 |
| 35° | 113.0 | 126.7 | 131.3 |
| 37.5° | 111.4 | 126.7 | 132.8 |
| 40° | 109.9 | 126.7 | 132.8 |
| 42.5° | 108.4 | 126.7 | 132.8 |
| 45° | 106.9 | 125.2 | 132.8 |
| 47.5° | 103.8 | 125.2 | 132.8 |
| 50° | 102.3 | 123.6 | 131.3 |
| 52.5° | 99.2 | 122.1 | 131.3 |
| 55° | 96.2 | 119.1 | 126.7 |
| 57.5° | 91.6 | 114.5 | 120.6 |
| 60° | 85.5 | 108.4 | 114.5 |
| 62.5° | 77.9 | 100.7 | 105.3 |
| 65° | 71.7 | 91.6 | 97.7 |
| 67.5° | 62.6 | 80.9 | 87.0 |
| 70° | 55.0 | 70.2 | 76.3 |
| 72.5° | 47.3 | 59.5 | 65.6 |
| 75° | 39.7 | 48.8 | 53.4 |
| 77.5° | 30.5 | 39.7 | 42.7 |
| 80° | 24.4 | 30.5 | 33.6 |
| 82.5° | 16.8 | 21.4 | 22.9 |
| 85° | 10.7 | 13.7 | 15.3 |
| 87.5° | 4.6 | 6.1 | 6.1 |
| 90° | 0.0 | 0.0 | 0.0 |

(END OF REPORT)