

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: P1316307

Luminaire Tested: LDSQA3D05R459740DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316307  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R459740DE010 3LSQCA45R 1MMS  
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 97CRI , 3LSQCA45R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

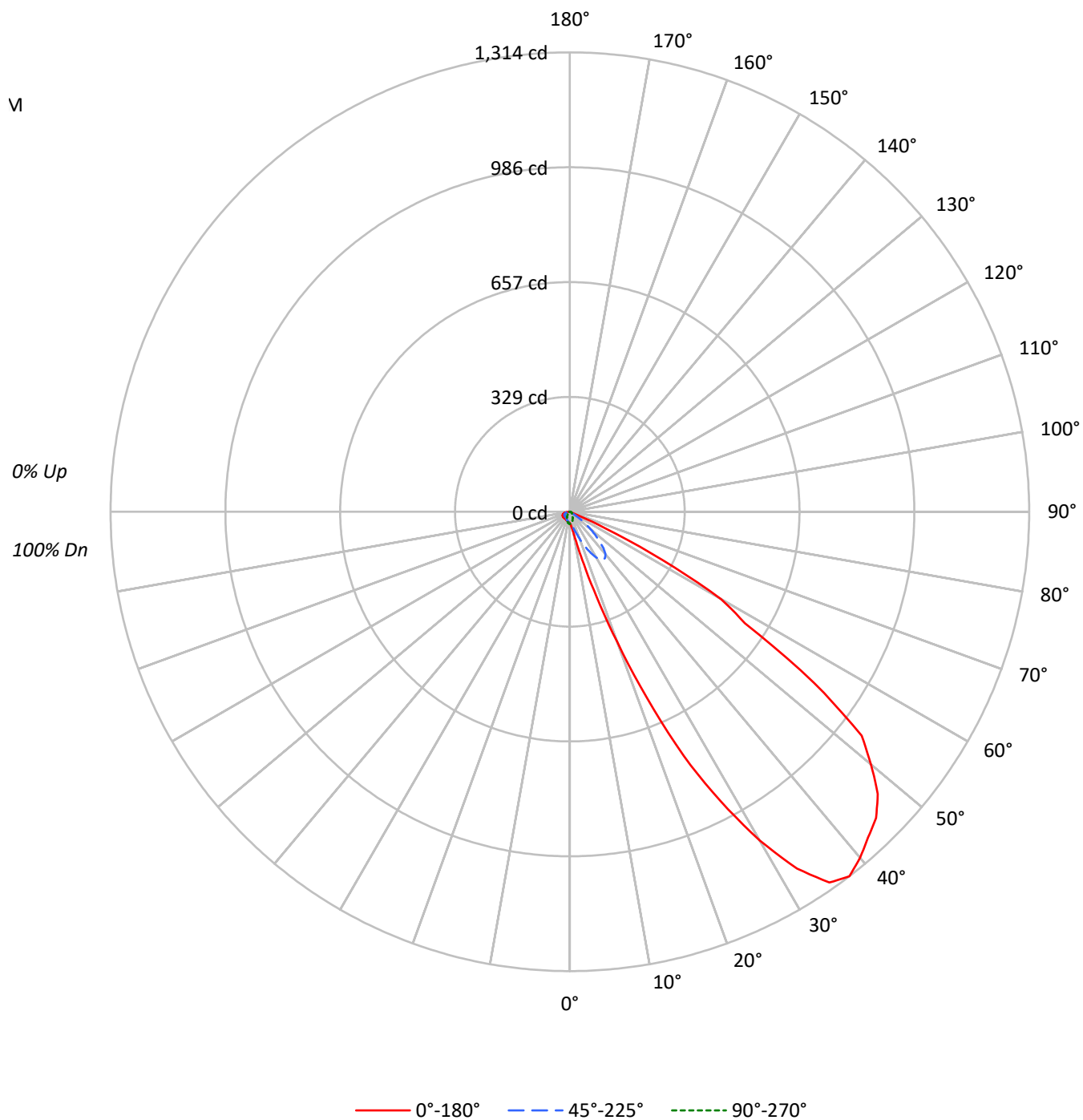
Lumens per Lamp: N/A  
Luminaire Lumens: 587.0 lumens  
Efficiency: N/A  
Efficacy: 81.5 lumens/watt  
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
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 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 110 | 106 | 102 | 99  | 107 | 104 | 100 | 97  | 99  | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 88  | 86  |    |    |
| 2   | 100 | 93  | 86  | 81  | 98  | 91  | 85  | 80  | 87  | 83  | 78  | 84  | 80  | 77  | 81  | 78  | 75  | 73  |    |    |
| 3   | 91  | 81  | 73  | 67  | 89  | 80  | 72  | 66  | 77  | 70  | 65  | 74  | 69  | 64  | 71  | 67  | 63  | 61  |    |    |
| 4   | 83  | 71  | 62  | 56  | 81  | 70  | 62  | 55  | 67  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 53  | 51  |    |    |
| 5   | 76  | 63  | 53  | 47  | 73  | 61  | 53  | 46  | 59  | 52  | 46  | 57  | 51  | 45  | 55  | 50  | 45  | 43  |    |    |
| 6   | 69  | 55  | 46  | 39  | 67  | 54  | 46  | 39  | 52  | 45  | 39  | 51  | 44  | 39  | 49  | 43  | 38  | 36  |    |    |
| 7   | 63  | 49  | 40  | 34  | 61  | 48  | 40  | 33  | 47  | 39  | 33  | 45  | 38  | 33  | 44  | 37  | 33  | 31  |    |    |
| 8   | 58  | 44  | 35  | 29  | 56  | 43  | 35  | 29  | 42  | 34  | 29  | 40  | 33  | 28  | 39  | 33  | 28  | 26  |    |    |
| 9   | 53  | 39  | 31  | 25  | 52  | 39  | 30  | 25  | 38  | 30  | 25  | 36  | 29  | 25  | 35  | 29  | 24  | 22  |    |    |
| 10  | 49  | 36  | 27  | 22  | 48  | 35  | 27  | 22  | 34  | 27  | 21  | 33  | 26  | 21  | 32  | 26  | 21  | 19  |    |    |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°     | 45°   | 90°  | 135° | 180°  |
|-----|--------|-------|------|------|-------|
| 0°  | 5856   | 5856  | 5856 | 5856 | 5856  |
| 5°  | 6967   | 6448  | 5791 | 5359 | 5359  |
| 10° | 11105  | 7555  | 5421 | 5089 | 5089  |
| 15° | 27672  | 10109 | 4921 | 4761 | 4921  |
| 20° | 72889  | 15120 | 4270 | 4527 | 4802  |
| 25° | 146359 | 22404 | 3687 | 4238 | 4694  |
| 30° | 215769 | 29989 | 2983 | 4156 | 4832  |
| 35° | 272162 | 35174 | 2544 | 4079 | 5004  |
| 40° | 290378 | 35544 | 2293 | 4249 | 5351  |
| 45° | 301722 | 29641 | 2119 | 4603 | 5797  |
| 50° | 301235 | 20657 | 2090 | 4930 | 6511  |
| 55° | 256033 | 9188  | 2192 | 5525 | 7146  |
| 60° | 172085 | 1826  | 2170 | 6166 | 8198  |
| 65° | 45642  | 774   | 2160 | 6724 | 9291  |
| 70° | 1209   | 957   | 2216 | 7352 | 10524 |
| 75° | 998    | 998   | 2262 | 7719 | 11911 |
| 80° | 992    | 1488  | 2380 | 8133 | 13488 |
| 85° | 988    | 1976  | 3754 | 8695 | 13437 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 309475 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 3.4    | 0.6       |
| 10°-20°   | 16.6   | 2.8       |
| 20°-30°   | 68.3   | 11.6      |
| 30°-40°   | 143.9  | 24.5      |
| 40°-50°   | 177.6  | 30.2      |
| 50°-60°   | 133.1  | 22.7      |
| 60°-70°   | 34.2   | 5.8       |
| 70°-80°   | 7.1    | 1.2       |
| 80°-90°   | 2.9    | 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°    | 88.2   | 15.0      |
| 0°-40°    | 232.1  | 39.5      |
| 0°-60°    | 542.8  | 92.5      |
| 0°-90°    | 587.0  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 587.0  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 34   | 34  | 34  | 34   | 34   |      |
| 5°  | 40   | 37  | 34  | 31   | 31   | 5    |
| 15° | 155  | 57  | 28  | 27   | 28   | 57   |
| 25° | 770  | 118 | 19  | 22   | 25   | 359  |
| 35° | 1294 | 167 | 12  | 19   | 24   | 789  |
| 45° | 1239 | 122 | 9   | 19   | 24   | 948  |
| 55° | 853  | 31  | 7   | 18   | 24   | 736  |
| 65° | 112  | 2   | 5   | 16   | 23   | 162  |
| 75° | 2    | 2   | 3   | 12   | 18   | 2    |
| 85° | 0    | 1   | 2   | 4    | 7    | 1    |
| 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°    | 34.0   | 34.0   | 34.0   | 34.0   | 34.0   | 34.0  | 34.0  | 34.0  | 34.0  | 34.0 | 34.0   |
| 2.5°  | 35.9   | 35.9   | 35.9   | 35.9   | 35.9   | 35.9  | 35.9  | 35.4  | 34.9  | 34.0 | 33.0   |
| 5°    | 40.3   | 39.8   | 39.8   | 39.8   | 39.3   | 38.8  | 38.8  | 37.3  | 35.4  | 33.5 | 32.0   |
| 7.5°  | 47.5   | 47.5   | 47.0   | 46.1   | 45.6   | 44.6  | 43.7  | 39.8  | 35.4  | 32.5 | 30.6   |
| 10°   | 63.5   | 62.6   | 61.1   | 60.1   | 57.7   | 54.3  | 51.9  | 43.2  | 34.9  | 31.0 | 29.6   |
| 12.5° | 95.1   | 97.0   | 92.2   | 87.3   | 80.5   | 74.2  | 66.4  | 49.0  | 34.9  | 29.6 | 28.1   |
| 15°   | 155.2  | 158.6  | 149.4  | 139.7  | 123.2  | 107.7 | 93.1  | 56.7  | 34.0  | 27.6 | 26.2   |
| 17.5° | 253.7  | 258.0  | 242.5  | 219.7  | 194.0  | 163.0 | 136.3 | 67.4  | 33.0  | 25.7 | 24.7   |
| 20°   | 397.7  | 397.2  | 367.2  | 338.5  | 289.1  | 243.5 | 193.5 | 82.5  | 31.5  | 23.3 | 23.3   |
| 22.5° | 574.8  | 576.7  | 539.8  | 488.4  | 418.1  | 344.9 | 265.3 | 99.9  | 29.6  | 21.3 | 21.8   |
| 25°   | 770.2  | 753.7  | 710.1  | 647.5  | 557.8  | 456.4 | 351.6 | 117.9 | 27.6  | 19.4 | 20.4   |
| 27.5° | 933.2  | 917.2  | 867.2  | 793.0  | 696.5  | 576.2 | 439.4 | 135.8 | 25.2  | 17.5 | 18.9   |
| 30°   | 1085.0 | 1064.6 | 1004.5 | 920.6  | 805.6  | 675.6 | 521.9 | 150.8 | 22.3  | 15.0 | 17.5   |
| 32.5° | 1210.1 | 1191.7 | 1123.3 | 1025.8 | 900.7  | 761.0 | 591.7 | 162.5 | 19.4  | 13.6 | 16.5   |
| 35°   | 1294.5 | 1275.6 | 1212.6 | 1105.4 | 969.1  | 823.1 | 648.5 | 167.3 | 17.0  | 12.1 | 16.0   |
| 37.5° | 1313.9 | 1303.7 | 1258.6 | 1158.2 | 1016.1 | 862.9 | 684.9 | 165.9 | 14.1  | 11.2 | 15.0   |
| 40°   | 1291.6 | 1294.0 | 1272.7 | 1189.3 | 1041.3 | 879.8 | 699.9 | 158.1 | 11.6  | 10.2 | 14.6   |
| 42.5° | 1263.0 | 1269.3 | 1267.9 | 1201.9 | 1052.0 | 880.8 | 693.6 | 142.6 | 9.2   | 9.2  | 14.1   |
| 45°   | 1238.8 | 1245.1 | 1253.8 | 1196.6 | 1044.7 | 868.2 | 673.7 | 121.7 | 6.8   | 8.7  | 14.1   |
| 47.5° | 1194.6 | 1201.4 | 1214.0 | 1153.9 | 1007.9 | 835.7 | 637.8 | 98.9  | 4.9   | 8.2  | 13.6   |
| 50°   | 1124.3 | 1127.7 | 1124.3 | 1056.9 | 937.1  | 783.3 | 579.6 | 77.1  | 3.4   | 7.8  | 13.6   |
| 52.5° | 1052.0 | 1045.2 | 1017.1 | 931.7  | 824.5  | 700.4 | 506.4 | 54.8  | 2.4   | 7.3  | 13.1   |
| 55°   | 852.7  | 842.0  | 821.1  | 768.8  | 707.6  | 598.5 | 409.4 | 30.6  | 2.4   | 7.3  | 12.6   |
| 57.5° | 594.2  | 600.0  | 607.2  | 596.6  | 568.4  | 471.4 | 310.9 | 13.6  | 2.4   | 6.8  | 12.6   |
| 60°   | 499.6  | 494.7  | 495.2  | 488.4  | 441.9  | 343.9 | 213.9 | 5.3   | 2.4   | 6.3  | 12.1   |
| 62.5° | 298.3  | 301.7  | 308.0  | 309.4  | 263.4  | 192.1 | 112.0 | 2.4   | 2.4   | 5.8  | 11.6   |
| 65°   | 112.0  | 117.4  | 102.8  | 89.2   | 70.8   | 51.9  | 26.2  | 1.9   | 2.9   | 5.3  | 10.7   |
| 67.5° | 3.4    | 3.9    | 4.9    | 4.4    | 4.4    | 3.9   | 2.9   | 1.9   | 2.9   | 4.9  | 10.2   |
| 70°   | 2.4    | 2.4    | 2.4    | 2.4    | 2.4    | 1.9   | 1.9   | 1.9   | 2.4   | 4.4  | 9.2    |
| 72.5° | 1.9    | 1.9    | 1.9    | 1.9    | 1.9    | 1.9   | 1.9   | 1.9   | 2.4   | 3.9  | 8.2    |
| 75°   | 1.5    | 1.9    | 1.5    | 1.5    | 1.5    | 1.5   | 1.5   | 1.5   | 2.4   | 3.4  | 6.8    |
| 77.5° | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5   | 1.5   | 1.5   | 1.9   | 2.9  | 5.8    |
| 80°   | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0   | 1.0   | 1.5   | 1.9   | 2.4  | 4.9    |
| 82.5° | 1.0    | 1.0    | 1.0    | 0.5    | 1.0    | 1.0   | 1.0   | 1.0   | 1.9   | 1.9  | 3.9    |
| 85°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 0.5   | 1.0   | 1.5   | 1.9  | 2.4    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.5   | 0.5   | 1.0   | 1.5   | 1.5  | 1.5    |
| 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°    | 34.0 | 34.0   | 34.0 |
| 2.5°  | 32.0 | 32.0   | 32.0 |
| 5°    | 31.0 | 31.0   | 31.0 |
| 7.5°  | 30.1 | 30.1   | 30.1 |
| 10°   | 29.1 | 29.1   | 29.1 |
| 12.5° | 28.1 | 28.1   | 28.6 |
| 15°   | 26.7 | 27.6   | 27.6 |
| 17.5° | 25.7 | 26.7   | 27.2 |
| 20°   | 24.7 | 25.7   | 26.2 |
| 22.5° | 23.3 | 24.7   | 25.7 |
| 25°   | 22.3 | 24.3   | 24.7 |
| 27.5° | 21.3 | 23.8   | 24.7 |
| 30°   | 20.9 | 23.3   | 24.3 |
| 32.5° | 19.9 | 22.8   | 23.8 |
| 35°   | 19.4 | 22.8   | 23.8 |
| 37.5° | 19.4 | 22.3   | 23.8 |
| 40°   | 18.9 | 22.3   | 23.8 |
| 42.5° | 18.9 | 22.3   | 23.8 |
| 45°   | 18.9 | 22.3   | 23.8 |
| 47.5° | 18.4 | 22.3   | 24.3 |
| 50°   | 18.4 | 22.8   | 24.3 |
| 52.5° | 18.4 | 22.8   | 24.3 |
| 55°   | 18.4 | 22.8   | 23.8 |
| 57.5° | 17.9 | 22.3   | 23.8 |
| 60°   | 17.9 | 22.3   | 23.8 |
| 62.5° | 17.0 | 21.8   | 23.3 |
| 65°   | 16.5 | 21.3   | 22.8 |
| 67.5° | 15.5 | 20.9   | 21.8 |
| 70°   | 14.6 | 19.4   | 20.9 |
| 72.5° | 13.1 | 18.4   | 19.9 |
| 75°   | 11.6 | 17.0   | 17.9 |
| 77.5° | 10.2 | 15.0   | 16.0 |
| 80°   | 8.2  | 12.6   | 13.6 |
| 82.5° | 6.3  | 9.7    | 10.2 |
| 85°   | 4.4  | 6.3    | 6.8  |
| 87.5° | 1.9  | 2.9    | 3.4  |
| 90°   | 0.0  | 0.0    | 0.0  |

(END OF REPORT)