

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: P1325514

Luminaire Tested: LDSQA3D05R60W2N902765DE010 3LSQCA45R 1MW_3000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325514
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D05R60W2N902765DE010 3LSQCA45R 1MW_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R60 optic, 3000K CCT AND, 90CRI ,
3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

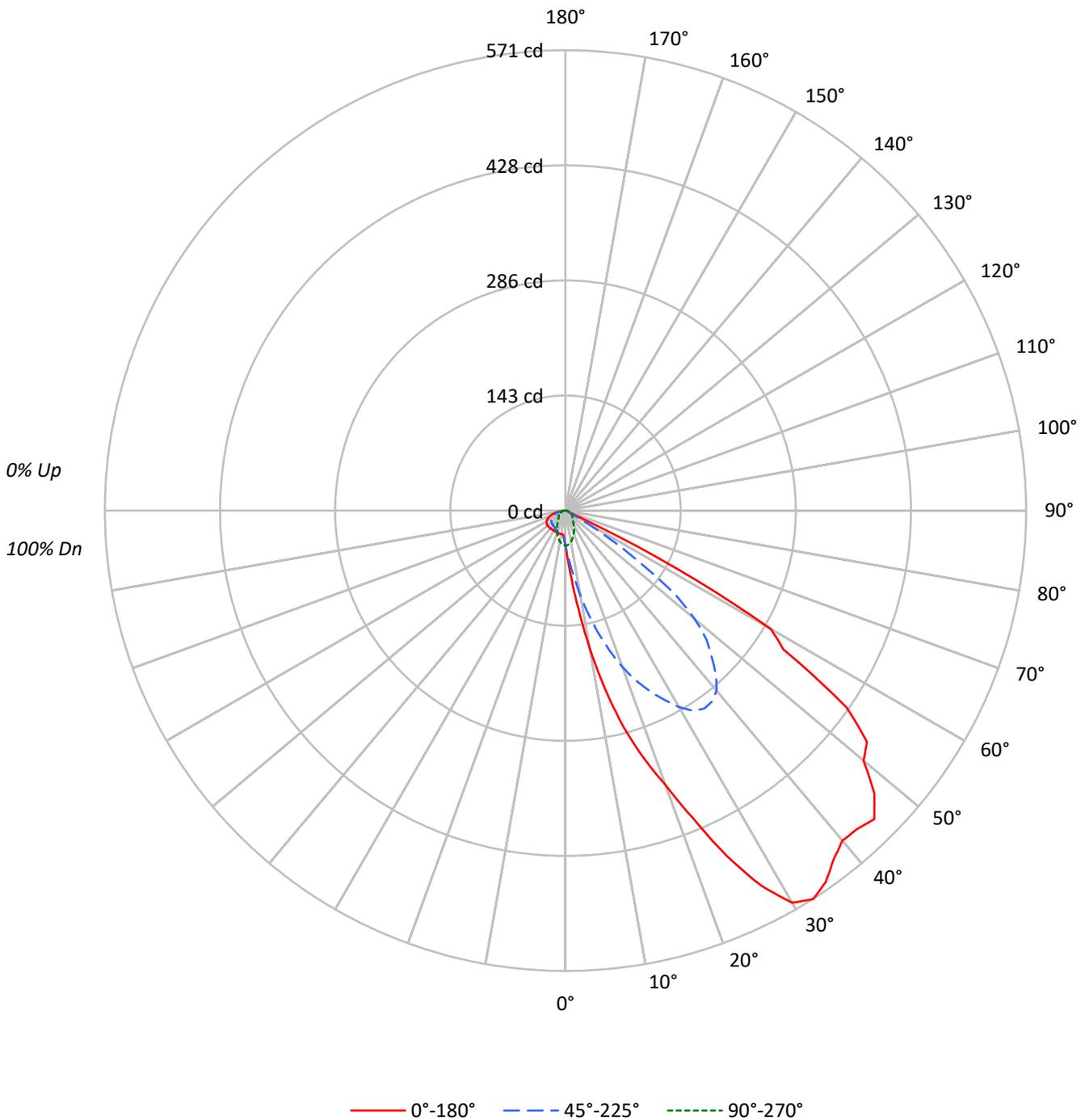
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 435.0 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 5.9
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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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 | 102 | 100 | |
| 1 | 110 | 106 | 102 | 99 | 108 | 104 | 100 | 97 | 100 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 89 | 89 | 87 | |
| 2 | 101 | 93 | 87 | 82 | 98 | 91 | 86 | 81 | 88 | 83 | 79 | 85 | 81 | 77 | 82 | 79 | 76 | 76 | 74 | |
| 3 | 92 | 82 | 74 | 68 | 90 | 81 | 73 | 68 | 78 | 72 | 67 | 75 | 70 | 65 | 72 | 68 | 64 | 64 | 62 | |
| 4 | 84 | 72 | 64 | 58 | 82 | 71 | 63 | 57 | 69 | 62 | 56 | 66 | 60 | 56 | 64 | 59 | 55 | 55 | 53 | |
| 5 | 77 | 64 | 55 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | 59 | 53 | 48 | 57 | 52 | 47 | 47 | 45 | |
| 6 | 70 | 57 | 48 | 42 | 69 | 56 | 48 | 42 | 54 | 47 | 41 | 53 | 46 | 41 | 51 | 45 | 41 | 41 | 39 | |
| 7 | 65 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 49 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 35 | 35 | 33 | |
| 8 | 60 | 46 | 38 | 32 | 58 | 45 | 37 | 32 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 36 | 31 | 31 | 29 | |
| 9 | 55 | 42 | 33 | 28 | 54 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 27 | 38 | 32 | 27 | 27 | 25 | |
| 10 | 52 | 38 | 30 | 25 | 50 | 38 | 30 | 25 | 37 | 29 | 24 | 36 | 29 | 24 | 35 | 29 | 24 | 24 | 22 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° | 135° | 180° |
|-----|--------|-------|------|------|-------|
| 0° | 7423 | 7423 | 7423 | 7423 | 7423 |
| 5° | 14626 | 11410 | 7313 | 5532 | 5256 |
| 10° | 30219 | 18607 | 6838 | 5054 | 5124 |
| 15° | 49424 | 27921 | 6133 | 5081 | 5224 |
| 20° | 66309 | 37828 | 5517 | 5077 | 5297 |
| 25° | 89712 | 46956 | 4808 | 5036 | 5492 |
| 30° | 111663 | 55901 | 4017 | 5031 | 5747 |
| 35° | 118221 | 63010 | 3406 | 5151 | 5992 |
| 40° | 120099 | 65513 | 3103 | 5328 | 6497 |
| 45° | 131839 | 62400 | 2996 | 5675 | 7039 |
| 50° | 129250 | 55944 | 2974 | 6028 | 7743 |
| 55° | 127761 | 34320 | 2973 | 6516 | 8557 |
| 60° | 101336 | 8163 | 3134 | 6958 | 9266 |
| 65° | 6439 | 1467 | 3056 | 7091 | 9984 |
| 70° | 1410 | 1611 | 2971 | 7352 | 10574 |
| 75° | 1331 | 1597 | 2662 | 7120 | 10780 |
| 80° | 1190 | 1587 | 2777 | 7042 | 10215 |
| 85° | 790 | 1581 | 3162 | 6323 | 10078 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 52.5°
 Luminance: 139162 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 5.4 | 1.2 |
| 10°-20° | 27.1 | 6.2 |
| 20°-30° | 62.9 | 14.5 |
| 30°-40° | 97.8 | 22.5 |
| 40°-50° | 111.4 | 25.6 |
| 50°-60° | 93.8 | 21.6 |
| 60°-70° | 27.2 | 6.3 |
| 70°-80° | 7.0 | 1.6 |
| 80°-90° | 2.4 | 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° | 95.4 | 21.9 |
| 0°-40° | 193.2 | 44.4 |
| 0°-60° | 398.4 | 91.6 |
| 0°-90° | 435.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 435.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 43 | 43 | 43 | 43 | 43 | |
| 5° | 85 | 66 | 42 | 32 | 30 | 11 |
| 15° | 277 | 157 | 34 | 28 | 29 | 80 |
| 25° | 472 | 247 | 25 | 26 | 29 | 219 |
| 35° | 562 | 300 | 16 | 24 | 28 | 349 |
| 45° | 541 | 256 | 12 | 23 | 29 | 407 |
| 55° | 426 | 114 | 10 | 22 | 28 | 358 |
| 65° | 16 | 4 | 8 | 17 | 24 | 78 |
| 75° | 2 | 2 | 4 | 11 | 16 | 2 |
| 85° | 0 | 1 | 2 | 3 | 5 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CATALOG NUMBER: LDSQA3D05R60W2N902765DE010 3LSQCA45R 1MW_3000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 0° | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 | 43.1 |
| 2.5° | 58.1 | 57.7 | 57.7 | 57.3 | 56.9 | 56.5 | 55.4 | 55.0 | 52.6 | 47.8 | 43.1 |
| 5° | 84.6 | 84.2 | 83.0 | 82.6 | 80.7 | 77.9 | 75.1 | 72.4 | 66.0 | 52.6 | 42.3 |
| 7.5° | 122.6 | 123.4 | 122.6 | 118.2 | 115.5 | 111.1 | 102.8 | 96.9 | 84.2 | 57.3 | 40.7 |
| 10° | 172.8 | 172.8 | 171.6 | 164.9 | 159.0 | 150.7 | 140.0 | 129.7 | 106.4 | 61.7 | 39.1 |
| 12.5° | 227.4 | 228.6 | 222.6 | 217.1 | 206.4 | 196.1 | 181.5 | 166.1 | 131.7 | 65.2 | 37.2 |
| 15° | 277.2 | 276.4 | 270.5 | 263.4 | 252.3 | 238.0 | 222.6 | 202.9 | 156.6 | 67.6 | 34.4 |
| 17.5° | 321.5 | 319.9 | 314.8 | 306.8 | 293.4 | 277.6 | 257.8 | 236.5 | 182.3 | 69.6 | 32.4 |
| 20° | 361.8 | 356.3 | 350.3 | 342.0 | 329.0 | 312.4 | 291.8 | 267.7 | 206.4 | 69.6 | 30.1 |
| 22.5° | 412.8 | 407.3 | 399.0 | 386.3 | 368.9 | 348.4 | 324.2 | 297.0 | 227.8 | 68.0 | 27.7 |
| 25° | 472.1 | 467.8 | 453.5 | 437.3 | 414.8 | 390.3 | 362.2 | 325.4 | 247.1 | 65.6 | 25.3 |
| 27.5° | 523.9 | 519.2 | 505.0 | 481.2 | 453.9 | 424.7 | 395.0 | 357.5 | 264.1 | 61.3 | 22.5 |
| 30° | 561.5 | 555.6 | 544.5 | 522.0 | 488.7 | 453.2 | 418.0 | 382.0 | 281.1 | 56.1 | 20.2 |
| 32.5° | 571.4 | 570.6 | 562.3 | 545.7 | 516.0 | 476.9 | 435.0 | 395.8 | 294.6 | 49.4 | 18.2 |
| 35° | 562.3 | 563.5 | 561.9 | 553.6 | 531.8 | 493.5 | 446.0 | 403.3 | 299.7 | 42.7 | 16.2 |
| 37.5° | 545.7 | 547.3 | 550.0 | 551.2 | 537.4 | 503.4 | 452.4 | 406.5 | 298.5 | 36.0 | 15.0 |
| 40° | 534.2 | 533.4 | 533.4 | 541.3 | 538.6 | 507.7 | 453.2 | 404.1 | 291.4 | 28.9 | 13.8 |
| 42.5° | 535.4 | 526.7 | 520.8 | 533.4 | 537.4 | 505.7 | 448.0 | 397.8 | 276.0 | 22.1 | 12.7 |
| 45° | 541.3 | 522.7 | 512.5 | 528.7 | 535.0 | 499.0 | 438.5 | 388.3 | 256.2 | 15.4 | 12.3 |
| 47.5° | 519.2 | 506.9 | 505.3 | 528.3 | 530.7 | 487.6 | 423.9 | 373.3 | 237.3 | 10.7 | 11.5 |
| 50° | 482.4 | 480.4 | 488.7 | 512.5 | 512.9 | 468.6 | 407.3 | 346.0 | 208.8 | 7.5 | 11.1 |
| 52.5° | 470.9 | 472.1 | 479.6 | 491.9 | 480.4 | 436.5 | 377.2 | 323.1 | 172.8 | 5.9 | 10.7 |
| 55° | 425.5 | 427.4 | 434.6 | 442.1 | 433.8 | 397.4 | 340.9 | 295.4 | 114.3 | 5.5 | 9.9 |
| 57.5° | 320.3 | 325.4 | 338.5 | 345.2 | 346.0 | 323.8 | 308.8 | 254.7 | 64.5 | 5.5 | 9.5 |
| 60° | 294.2 | 287.5 | 281.5 | 267.7 | 255.0 | 252.3 | 253.9 | 191.0 | 23.7 | 5.1 | 9.1 |
| 62.5° | 153.8 | 150.7 | 159.7 | 165.7 | 167.3 | 176.0 | 164.5 | 100.8 | 5.1 | 5.1 | 8.3 |
| 65° | 15.8 | 15.8 | 19.4 | 25.7 | 42.7 | 56.9 | 54.2 | 29.3 | 3.6 | 4.7 | 7.5 |
| 67.5° | 4.7 | 4.7 | 4.7 | 5.5 | 7.1 | 7.1 | 5.9 | 4.3 | 3.6 | 4.3 | 6.7 |
| 70° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 3.2 | 2.8 | 3.2 | 4.0 | 5.9 |
| 72.5° | 2.4 | 2.4 | 2.4 | 2.4 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 3.6 | 5.1 |
| 75° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.4 | 2.4 | 2.8 | 4.0 |
| 77.5° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 2.0 | 2.0 | 2.0 | 2.4 | 3.2 |
| 80° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.6 | 1.6 | 1.6 | 1.6 | 2.0 | 2.8 |
| 82.5° | 0.8 | 0.8 | 0.8 | 0.8 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.6 | 2.0 |
| 85° | 0.4 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.2 | 1.6 |
| 87.5° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.8 | 0.8 | 1.2 |
| 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):

| | 112.5° | 135° | 157.5° | 180° |
|-------|--------|------|--------|------|
| 0° | 43.1 | 43.1 | 43.1 | 43.1 |
| 2.5° | 39.1 | 36.4 | 34.8 | 34.0 |
| 5° | 35.6 | 32.0 | 30.8 | 30.4 |
| 7.5° | 32.4 | 30.1 | 29.7 | 29.7 |
| 10° | 30.4 | 28.9 | 29.3 | 29.3 |
| 12.5° | 29.3 | 28.9 | 29.3 | 29.7 |
| 15° | 28.1 | 28.5 | 29.3 | 29.3 |
| 17.5° | 27.3 | 28.1 | 28.9 | 29.3 |
| 20° | 26.1 | 27.7 | 28.9 | 28.9 |
| 22.5° | 25.3 | 27.3 | 28.5 | 28.9 |
| 25° | 24.5 | 26.5 | 28.1 | 28.9 |
| 27.5° | 23.3 | 26.1 | 28.1 | 28.5 |
| 30° | 22.1 | 25.3 | 27.7 | 28.9 |
| 32.5° | 21.0 | 24.9 | 27.7 | 28.5 |
| 35° | 20.2 | 24.5 | 27.7 | 28.5 |
| 37.5° | 19.4 | 24.1 | 27.7 | 28.9 |
| 40° | 19.0 | 23.7 | 27.3 | 28.9 |
| 42.5° | 18.2 | 23.7 | 27.3 | 28.9 |
| 45° | 17.8 | 23.3 | 27.3 | 28.9 |
| 47.5° | 17.4 | 22.9 | 27.3 | 28.9 |
| 50° | 16.6 | 22.5 | 26.9 | 28.9 |
| 52.5° | 16.2 | 22.1 | 26.9 | 28.9 |
| 55° | 15.4 | 21.7 | 26.5 | 28.5 |
| 57.5° | 15.0 | 21.0 | 26.1 | 27.7 |
| 60° | 14.2 | 20.2 | 25.3 | 26.9 |
| 62.5° | 13.0 | 19.0 | 24.1 | 26.1 |
| 65° | 11.9 | 17.4 | 22.9 | 24.5 |
| 67.5° | 10.7 | 16.2 | 21.4 | 22.9 |
| 70° | 9.5 | 14.6 | 19.4 | 21.0 |
| 72.5° | 8.3 | 12.7 | 17.4 | 18.6 |
| 75° | 7.1 | 10.7 | 14.6 | 16.2 |
| 77.5° | 5.5 | 8.7 | 12.3 | 13.4 |
| 80° | 4.3 | 7.1 | 9.5 | 10.3 |
| 82.5° | 3.6 | 5.1 | 7.1 | 7.5 |
| 85° | 2.4 | 3.2 | 4.3 | 5.1 |
| 87.5° | 1.2 | 1.6 | 2.0 | 2.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)