Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: METALUX

Report Number: P1559220

Luminaire Tested: 4NWS3C5-5000-LOW

Issue Date: 9/2/2026

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-2019 |
| Report Number: | P1559220 |
| | TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2607-872-8) |
| Test Lab: | INNOVATION CENTER |
| Issue Date: | 9/2/2026 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS |
| Product Line: | METALUX |
| Catalog Number: | 4NWS3C5-5000-LOW |
| Description: | 4ft WRAP Lo Lumen 5 CCT SEL NUV 0-10V DIM 5000K |
| Light Source: | |
| Ballast/Driver: | - |

**Summary**

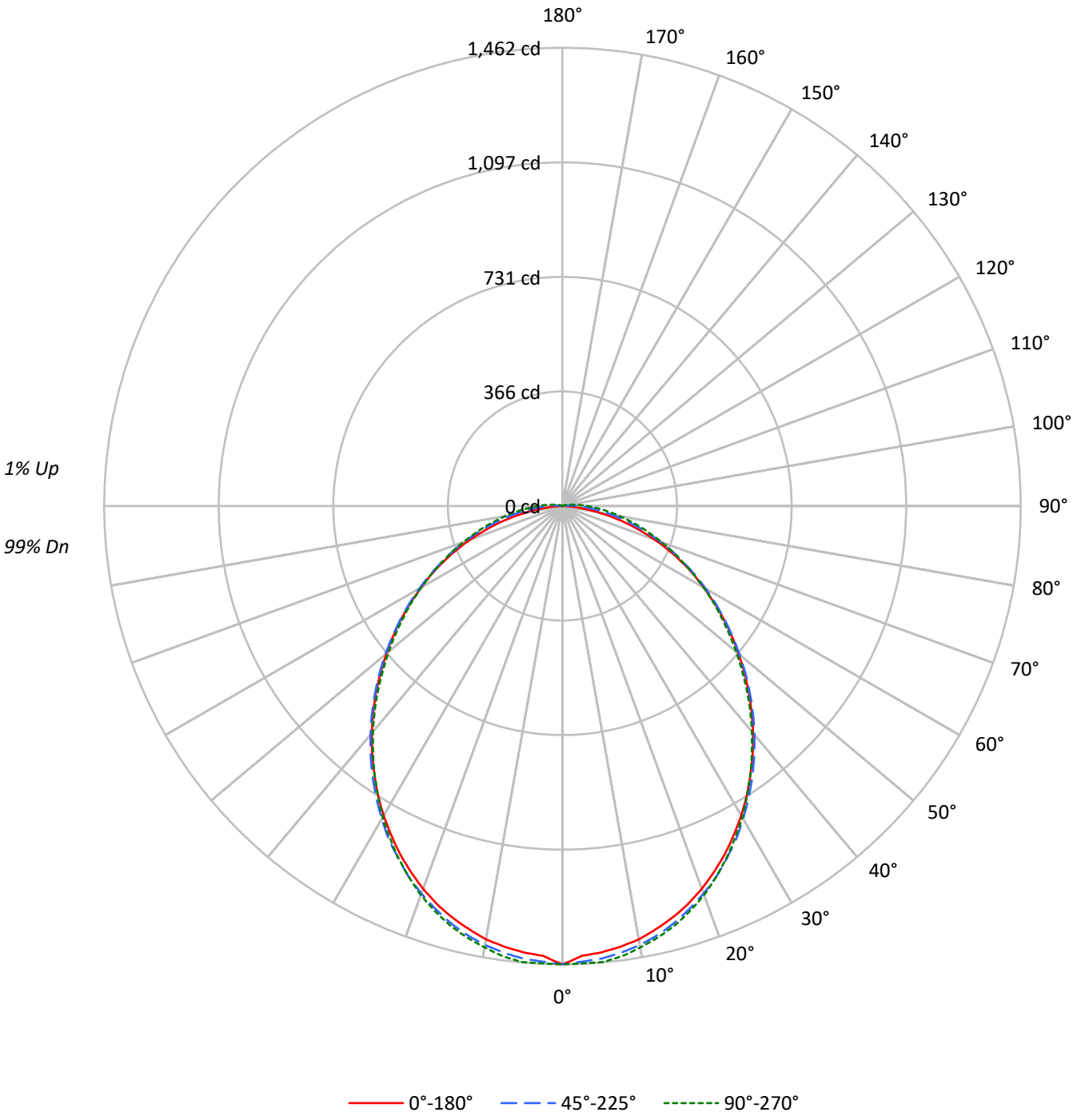
| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 3795.6 lumens |
| Efficiency: | N/A |
| Efficacy: | 139.5 lumens/watt |
| Spacing Criteria (0/90/45): | 1.17 / 1.17 / 1.29 |
| Luminous Opening: | Rectangular (W 0.33' x L: 4' x H: 0') |
| CIE Type: | Direct |
| Input Watts (W): | 27.2 |
| Input Voltage (V): | |
| Input Current (Ain): | NR |
| Voltage Rise (V): | NR |
| Power Factor: | |
| Total Harmonic Distortion (THDi): | |
| Frequency (hertz): | 60 |
| Stabilization Time: | HR |
| Operation Time: | HR |
| 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 | | | 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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 101 | 101 | 101 | 99 |
| 1 | 108 | 104 | 99 | 95 | 106 | 101 | 97 | 94 | 97 | 94 | 91 | 93 | 90 | 88 | 89 | 87 | 85 | 83 |
| 2 | 99 | 90 | 84 | 78 | 96 | 89 | 82 | 77 | 85 | 80 | 75 | 81 | 77 | 73 | 78 | 75 | 71 | 69 |
| 3 | 90 | 80 | 72 | 65 | 88 | 78 | 71 | 64 | 75 | 69 | 63 | 72 | 67 | 62 | 69 | 65 | 61 | 59 |
| 4 | 83 | 71 | 62 | 55 | 80 | 69 | 61 | 55 | 67 | 60 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | 50 |
| 5 | 76 | 63 | 55 | 48 | 74 | 62 | 54 | 48 | 60 | 53 | 47 | 58 | 52 | 46 | 56 | 50 | 46 | 44 |
| 6 | 70 | 57 | 48 | 42 | 69 | 56 | 48 | 42 | 54 | 47 | 41 | 53 | 46 | 41 | 51 | 45 | 41 | 38 |
| 7 | 65 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | 48 | 41 | 36 | 47 | 41 | 36 | 34 |
| 8 | 61 | 48 | 39 | 33 | 59 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 32 | 31 |
| 9 | 57 | 44 | 36 | 30 | 56 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 29 | 28 |
| 10 | 54 | 40 | 33 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 27 | 25 |

## AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|---|---|---|---|
| 0° | 11926 | 11926 | 11926 |
| 5° | 11701 | 11863 | 11959 |
| 10° | 11624 | 11775 | 11842 |
| 15° | 11473 | 11628 | 11696 |
| 20° | 11278 | 11417 | 11463 |
| 25° | 11026 | 11158 | 11145 |
| 30° | 10737 | 10855 | 10799 |
| 35° | 10410 | 10511 | 10402 |
| 40° | 10069 | 10139 | 10006 |
| 45° | 9697 | 9757 | 9596 |
| 50° | 9300 | 9356 | 9170 |
| 55° | 8920 | 8972 | 8795 |
| 60° | 8486 | 8605 | 8473 |
| 65° | 8042 | 8226 | 8183 |
| 70° | 7453 | 7889 | 8013 |
| 75° | 6635 | 7536 | 8047 |
| 80° | 5377 | 7476 | 8683 |
| 85° | 3499 | 8991 | 11742 |

## MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
Vertical Angle: 87.5°
Luminance: 18657 cd/sqm

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**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 137.9 | 3.6 |
| 10°-20° | 389.4 | 10.3 |
| 20°-30° | 572.6 | 15.1 |
| 30°-40° | 661.5 | 17.4 |
| 40°-50° | 653.7 | 17.2 |
| 50°-60° | 565.8 | 14.9 |
| 60°-70° | 423.5 | 11.2 |
| 70°-80° | 253.5 | 6.7 |
| 80°-90° | 102.5 | 2.7 |
| 90°-100° | 26.6 | 0.7 |
| 100°-110° | 6.7 | 0.2 |
| 110°-120° | 1.7 | 0.0 |
| 120°-130° | 0.1 | 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° | 1099.9 | 29.0 |
| 0°-40° | 1761.4 | 46.4 |
| 0°-60° | 2981.0 | 78.5 |
| 0°-90° | 3760.5 | 99.1 |
| 90°-120° | 35.0 | 0.9 |
| 90°-150° | 35.1 | 0.9 |
| 90°-180° | 35.0 | 0.9 |
| 0°-180° | 3795.6 | 100.0 |

**CANDELA DISTRIBUTION:**

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|---|---|---|---|---|---|---|
| 0° | 1462 | 1462 | 1462 | 1462 | 1462 | |
| 5° | 1430 | 1476 | 1449 | 1446 | 1461 | 136 |
| 15° | 1359 | 1403 | 1377 | 1378 | 1385 | 383 |
| 25° | 1226 | 1266 | 1240 | 1238 | 1239 | 564 |
| 35° | 1046 | 1079 | 1056 | 1053 | 1045 | 654 |
| 45° | 841 | 865 | 846 | 842 | 832 | 648 |
| 55° | 627 | 646 | 631 | 629 | 619 | 561 |
| 65° | 417 | 428 | 426 | 432 | 424 | 413 |
| 75° | 211 | 224 | 239 | 257 | 255 | 223 |
| 85° | 37 | 62 | 96 | 122 | 126 | 47 |
| 90° | 0 | 18 | 49 | 73 | 78 | 2 |
| 95° | 1 | 4 | 21 | 40 | 45 | 0 |
| 105° | 1 | 1 | 5 | 11 | 13 | 1 |
| 115° | 2 | 1 | 2 | 2 | 3 | 1 |
| 125° | 0 | 0 | 0 | 0 | 0 | 0 |
| 135° | 0 | 0 | 0 | 0 | 0 | 0 |
| 145° | 0 | 0 | 0 | 0 | 0 | 0 |
| 155° | 0 | 0 | 0 | 0 | 0 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | |

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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 22.5° | 45° | 67.5° | 90° |
|---|---|---|---|---|---|
| 0° | 1462.5 | 1462.5 | 1462.5 | 1462.5 | 1462.5 |
| 2.5° | 1436.8 | 1482.3 | 1455.1 | 1452.2 | 1461.0 |
| 5° | 1429.5 | 1476.4 | 1449.3 | 1445.6 | 1461.0 |
| 7.5° | 1418.4 | 1465.4 | 1437.5 | 1433.9 | 1449.3 |
| 10° | 1403.8 | 1449.3 | 1422.1 | 1419.2 | 1430.2 |
| 12.5° | 1382.5 | 1429.5 | 1402.3 | 1399.4 | 1409.6 |
| 15° | 1359.0 | 1403.0 | 1377.4 | 1378.1 | 1385.4 |
| 17.5° | 1331.9 | 1373.7 | 1348.0 | 1348.7 | 1354.6 |
| 20° | 1299.6 | 1341.4 | 1315.7 | 1314.2 | 1320.9 |
| 22.5° | 1263.6 | 1305.4 | 1281.2 | 1276.8 | 1281.2 |
| 25° | 1225.5 | 1265.8 | 1240.1 | 1237.9 | 1238.7 |
| 27.5° | 1183.6 | 1222.5 | 1199.0 | 1195.4 | 1193.2 |
| 30° | 1140.3 | 1177.0 | 1152.8 | 1149.1 | 1146.9 |
| 32.5° | 1094.8 | 1128.6 | 1105.1 | 1101.4 | 1096.3 |
| 35° | 1045.7 | 1078.7 | 1055.9 | 1053.0 | 1044.9 |
| 37.5° | 997.2 | 1026.6 | 1004.6 | 1002.4 | 992.1 |
| 40° | 945.9 | 973.8 | 952.5 | 948.8 | 940.0 |
| 42.5° | 893.0 | 920.2 | 899.6 | 895.2 | 886.4 |
| 45° | 840.9 | 865.2 | 846.1 | 841.7 | 832.1 |
| 47.5° | 786.6 | 810.1 | 792.5 | 788.1 | 776.4 |
| 50° | 733.1 | 756.6 | 737.5 | 733.8 | 722.8 |
| 52.5° | 681.0 | 700.8 | 683.9 | 681.0 | 670.7 |
| 55° | 627.4 | 645.7 | 631.1 | 628.9 | 618.6 |
| 57.5° | 573.8 | 590.0 | 579.0 | 578.2 | 569.4 |
| 60° | 520.3 | 536.4 | 527.6 | 527.6 | 519.5 |
| 62.5° | 470.4 | 482.8 | 476.2 | 479.9 | 471.1 |
| 65° | 416.8 | 428.5 | 426.3 | 431.5 | 424.1 |
| 67.5° | 364.7 | 377.2 | 377.9 | 386.7 | 380.1 |
| 70° | 312.6 | 325.1 | 330.9 | 340.5 | 336.1 |
| 72.5° | 260.5 | 273.7 | 284.7 | 297.9 | 294.3 |
| 75° | 210.6 | 224.5 | 239.2 | 256.8 | 255.4 |
| 77.5° | 160.0 | 177.6 | 198.1 | 218.7 | 218.7 |
| 80° | 114.5 | 134.3 | 159.2 | 183.5 | 184.9 |
| 82.5° | 72.6 | 94.7 | 125.5 | 151.2 | 153.4 |
| 85° | 37.4 | 61.6 | 96.1 | 121.8 | 125.5 |
| 87.5° | 11.7 | 36.0 | 69.7 | 95.4 | 99.8 |
| 90° | 0.0 | 18.3 | 49.2 | 73.4 | 78.5 |
| 92.5° | 0.0 | 8.8 | 33.0 | 55.0 | 60.2 |
| 95° | 0.7 | 4.4 | 21.3 | 40.4 | 44.8 |
| 97.5° | 0.7 | 2.2 | 13.9 | 28.6 | 33.0 |
| 100° | 0.7 | 1.5 | 9.5 | 20.5 | 24.2 |
| 102.5° | 0.7 | 0.7 | 6.6 | 14.7 | 17.6 |
| 105° | 0.7 | 0.7 | 5.1 | 11.0 | 13.2 |
| 107.5° | 1.5 | 0.7 | 2.9 | 8.1 | 9.5 |
| 110° | 1.5 | 0.7 | 1.5 | 5.9 | 7.3 |

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**CANDELA DISTRIBUTION (continued):**

| | 0° | 22.5° | 45° | 67.5° | 90° |
|---|---|---|---|---|---|
| 112.5° | 1.5 | *0.7* | 0.7 | 3.7 | 5.1 |
| 115° | 1.5 | *0.7* | 1.5 | 2.2 | 2.9 |
| 117.5° | 1.5 | *0.7* | 1.5 | 0.7 | 1.5 |
| 120° | 1.5 | *0.7* | 0.7 | 0.7 | 0.7 |
| 122.5° | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 |

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**CIE UGR TABLE:**

| Reflectances: | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Ceiling | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 |
| | Wall | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 |
| | Reference plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Room dimensions | | Viewed crosswise | | | | | Viewed endwise | | | | |
| X=2H | Y=2H | 19.53 | 21.12 | 19.91 | 21.46 | 21.80 | 19.41 | 21.00 | 19.79 | 21.34 | 21.67 |
| | 3H | 21.21 | 22.66 | 21.60 | 23.00 | 23.39 | 21.27 | 22.71 | 21.66 | 23.06 | 23.44 |
| | 4H | 21.81 | 23.17 | 22.22 | 23.54 | 23.93 | 22.05 | 23.42 | 22.47 | 23.78 | 24.18 |
| | 6H | 22.20 | 23.46 | 22.62 | 23.84 | 24.26 | 22.78 | 24.04 | 23.20 | 24.42 | 24.84 |
| | 8H | 22.30 | 23.50 | 22.74 | 23.91 | 24.33 | 23.11 | 24.32 | 23.55 | 24.73 | 25.15 |
| | 12H | 22.34 | 23.50 | 22.79 | 23.90 | 24.35 | 23.46 | 24.62 | 23.91 | 25.02 | 25.47 |
| 4H | 2H | 20.12 | 21.49 | 20.54 | 21.85 | 22.25 | 20.03 | 21.39 | 20.44 | 21.76 | 22.15 |
| | 3H | 22.05 | 23.19 | 22.47 | 23.61 | 24.03 | 22.13 | 23.27 | 22.56 | 23.69 | 24.11 |
| | 4H | 22.78 | 23.82 | 23.23 | 24.25 | 24.71 | 23.07 | 24.11 | 23.52 | 24.54 | 25.00 |
| | 6H | 23.30 | 24.21 | 23.77 | 24.67 | 25.15 | 23.97 | 24.88 | 24.44 | 25.34 | 25.81 |
| | 8H | 23.45 | 24.30 | 23.92 | 24.76 | 25.25 | 24.39 | 25.24 | 24.86 | 25.70 | 26.19 |
| | 12H | 23.53 | 24.30 | 24.03 | 24.79 | 25.28 | 24.83 | 25.60 | 25.33 | 26.09 | 26.58 |
| 8H | 4H | 23.14 | 23.99 | 23.61 | 24.45 | 24.94 | 23.40 | 24.25 | 23.88 | 24.71 | 25.20 |
| | 6H | 23.81 | 24.52 | 24.31 | 25.02 | 25.52 | 24.47 | 25.18 | 24.98 | 25.69 | 26.18 |
| | 8H | 24.03 | 24.67 | 24.55 | 25.19 | 25.70 | 25.02 | 25.66 | 25.55 | 26.19 | 26.69 |
| | 12H | 24.19 | 24.76 | 24.71 | 25.26 | 25.85 | 25.64 | 26.21 | 26.16 | 26.71 | 27.30 |
| 12H | 4H | 23.21 | 23.97 | 23.70 | 24.46 | 24.95 | 23.43 | 24.20 | 23.93 | 24.69 | 25.18 |
| | 6H | 23.92 | 24.56 | 24.44 | 25.08 | 25.59 | 24.54 | 25.18 | 25.06 | 25.70 | 26.21 |
| | 8H | 24.22 | 24.79 | 24.74 | 25.29 | 25.88 | 25.18 | 25.74 | 25.70 | 26.25 | 26.83 |

END OF REPORT