

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: P1559204

Luminaire Tested: 2NWS3C5-NUV-LOW-45K

Issue Date: 9/2/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1559204  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2607-872-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/2/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2NWS3C5-NUV-LOW-45K  
Description: 2FT WRAP Lo Lumen 5 CCT SEL NUV 0-10V DIM 4500K  
  
Light Source:  
Ballast/Driver: -

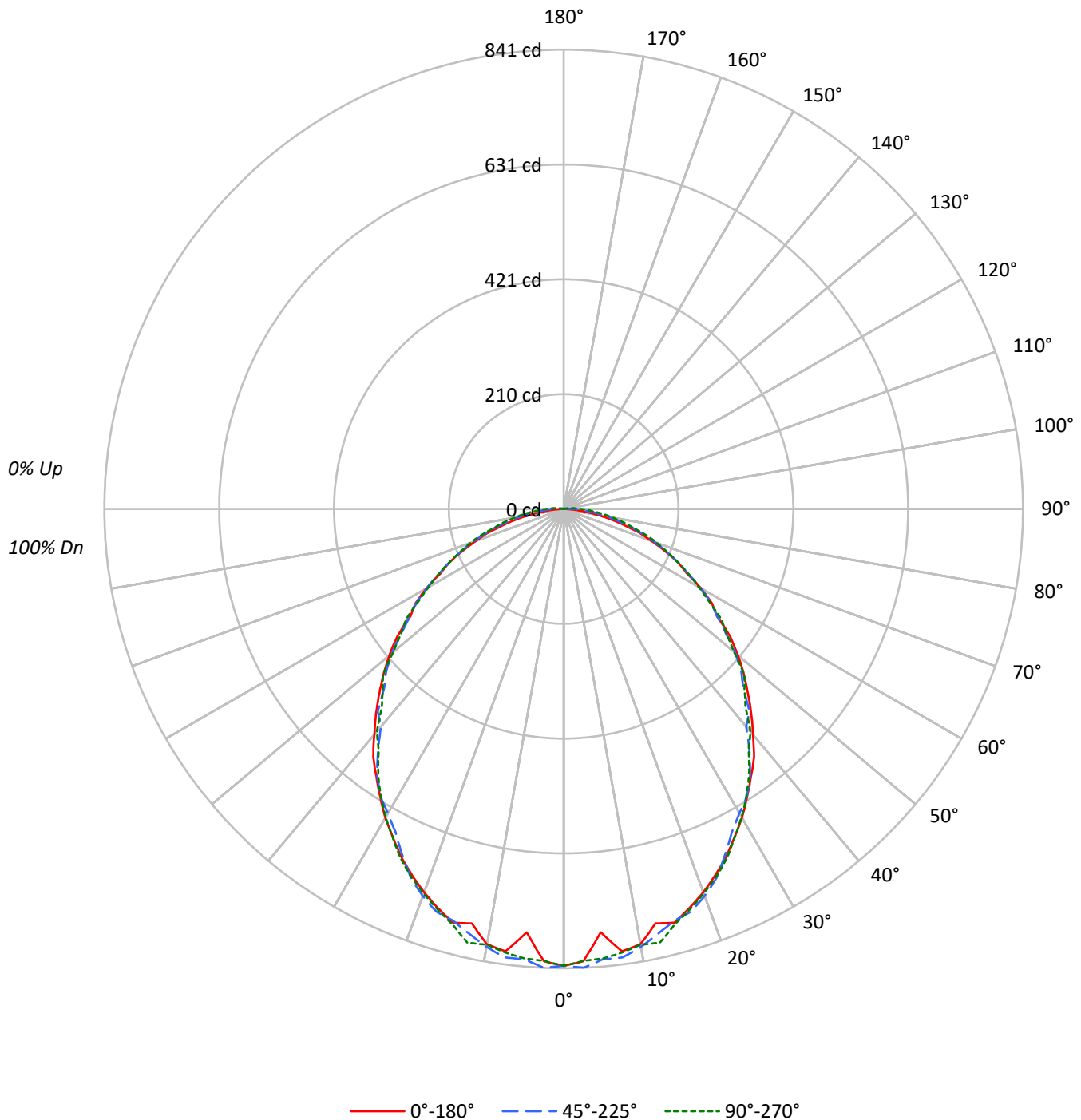
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2094.2 lumens  
Efficiency: N/A  
Efficacy: 144.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.27  
Luminous Opening: Rectangular (W 0.33' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 14.5  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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

TEST NUMBER: P1559204

CATALOG NUMBER: 2NWS3C5-NUV-LOW-45K

### 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  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 94  | 97  | 94  | 91  |  | 93  | 91  | 88  |  | 90  |
| 2   | 99  | 91  | 84  | 79  | 97  | 89  | 83  | 78  | 86  | 80  | 76  |  | 82  | 78  | 74  |  | 79  |
| 3   | 91  | 80  | 72  | 66  | 88  | 79  | 71  | 65  | 76  | 69  | 64  |  | 73  | 67  | 63  |  | 70  |
| 4   | 83  | 71  | 63  | 56  | 81  | 70  | 62  | 56  | 68  | 61  | 55  |  | 65  | 59  | 54  |  | 63  |
| 5   | 77  | 64  | 55  | 49  | 75  | 63  | 55  | 48  | 61  | 53  | 48  |  | 59  | 52  | 47  |  | 57  |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 49  | 43  | 55  | 48  | 42  |  | 53  | 47  | 42  |  | 52  |
| 7   | 66  | 53  | 44  | 38  | 64  | 52  | 44  | 38  | 50  | 43  | 38  |  | 49  | 42  | 37  |  | 47  |
| 8   | 61  | 48  | 40  | 34  | 60  | 47  | 39  | 34  | 46  | 39  | 34  |  | 45  | 38  | 33  |  | 44  |
| 9   | 58  | 44  | 36  | 31  | 56  | 44  | 36  | 31  | 43  | 35  | 30  |  | 41  | 35  | 30  |  | 40  |
| 10  | 54  | 41  | 33  | 28  | 53  | 40  | 33  | 28  | 39  | 33  | 28  |  | 38  | 32  | 28  |  | 38  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 13642 | 13642 | 13642 |
| 5°  | 12735 | 13547 | 13524 |
| 10° | 13402 | 13484 | 13414 |
| 15° | 13241 | 13182 | 13288 |
| 20° | 12968 | 13090 | 13005 |
| 25° | 12656 | 12580 | 12706 |
| 30° | 12297 | 12115 | 12271 |
| 35° | 11904 | 11848 | 11792 |
| 40° | 11482 | 11066 | 11333 |
| 45° | 11006 | 10718 | 10796 |
| 50° | 10568 | 10408 | 10319 |
| 55° | 9741  | 9761  | 10017 |
| 60° | 9466  | 9420  | 9309  |
| 65° | 8883  | 8910  | 8883  |
| 70° | 8149  | 8450  | 8650  |
| 75° | 7209  | 8003  | 8179  |
| 80° | 5898  | 7598  | 8387  |
| 85° | 4042  | 8233  | 10442 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 16190 cd/sqm

TEST NUMBER: P1559204

CATALOG NUMBER: 2NWS3C5-NUV-LOW-45K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 78.6   | 3.8       |
| 10°-20°   | 221.9  | 10.6      |
| 20°-30°   | 324.3  | 15.5      |
| 30°-40°   | 371.9  | 17.8      |
| 40°-50°   | 365.5  | 17.5      |
| 50°-60°   | 312.0  | 14.9      |
| 60°-70°   | 227.6  | 10.9      |
| 70°-80°   | 133.2  | 6.4       |
| 80°-90°   | 48.6   | 2.3       |
| 90°-100°  | 9.0    | 0.4       |
| 100°-110° | 1.3    | 0.1       |
| 110°-120° | 0.1    | 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°    | 624.9  | 29.8      |
| 0°-40°    | 996.8  | 47.6      |
| 0°-60°    | 1674.4 | 80.0      |
| 0°-90°    | 2083.7 | 99.5      |
| 90°-120°  | 10.4   | 0.5       |
| 90°-150°  | 10.4   | 0.5       |
| 90°-180°  | 10.0   | 0.5       |
| 0°-180°   | 2094.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 836 | 836   | 836 | 836   | 836 |      |
| 5°   | 778 | 828   | 828 | 843   | 826 | 77   |
| 15°  | 784 | 786   | 781 | 796   | 787 | 219  |
| 25°  | 703 | 702   | 699 | 710   | 706 | 323  |
| 35°  | 598 | 599   | 595 | 596   | 592 | 374  |
| 45°  | 477 | 479   | 465 | 472   | 468 | 369  |
| 55°  | 343 | 355   | 343 | 344   | 352 | 313  |
| 65°  | 230 | 230   | 231 | 225   | 230 | 226  |
| 75°  | 114 | 121   | 127 | 130   | 130 | 123  |
| 85°  | 22  | 29    | 44  | 54    | 56  | 27   |
| 90°  | 1   | 8     | 20  | 29    | 32  | 1    |
| 95°  | 0   | 1     | 6   | 13    | 15  | 0    |
| 105° | 0   | 0     | 1   | 2     | 3   | 0    |
| 115° | 1   | 0     | 0   | 0     | 0   | 0    |
| 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   | 0    |

TEST NUMBER: P1559204

CATALOG NUMBER: 2NWS3C5-NUV-LOW-45K

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 836.5 | 836.5 | 836.5 | 836.5 | 836.5 |
| 2.5°   | 828.8 | 829.5 | 840.7 | 842.8 | 828.1 |
| 5°     | 777.9 | 827.5 | 827.5 | 842.8 | 826.1 |
| 7.5°   | 817.0 | 819.8 | 828.1 | 830.9 | 819.1 |
| 10°    | 809.3 | 811.4 | 814.2 | 818.4 | 810.0 |
| 12.5°  | 777.2 | 820.5 | 796.8 | 803.0 | 813.5 |
| 15°    | 784.2 | 786.3 | 780.7 | 796.1 | 787.0 |
| 17.5°  | 766.1 | 760.5 | 773.7 | 777.9 | 768.8 |
| 20°    | 747.2 | 750.7 | 754.2 | 760.5 | 749.3 |
| 22.5°  | 725.6 | 726.3 | 731.2 | 738.1 | 729.1 |
| 25°    | 703.3 | 701.9 | 699.1 | 709.5 | 706.1 |
| 27.5°  | 677.4 | 681.6 | 667.0 | 684.4 | 678.1 |
| 30°    | 653.0 | 656.5 | 643.3 | 655.1 | 651.6 |
| 32.5°  | 625.1 | 628.6 | 624.4 | 624.4 | 623.0 |
| 35°    | 597.9 | 599.3 | 595.1 | 595.8 | 592.3 |
| 37.5°  | 572.8 | 565.8 | 558.8 | 563.7 | 556.1 |
| 40°    | 539.3 | 547.0 | 519.8 | 533.0 | 532.3 |
| 42.5°  | 508.6 | 511.4 | 503.7 | 500.9 | 492.6 |
| 45°    | 477.2 | 479.3 | 464.7 | 472.3 | 468.1 |
| 47.5°  | 447.2 | 456.3 | 440.9 | 437.4 | 448.6 |
| 50°    | 416.5 | 417.2 | 410.2 | 405.4 | 406.7 |
| 52.5°  | 384.4 | 392.8 | 374.7 | 374.7 | 375.4 |
| 55°    | 342.6 | 355.1 | 343.3 | 344.0 | 352.3 |
| 57.5°  | 321.6 | 320.2 | 319.5 | 314.0 | 315.4 |
| 60°    | 290.2 | 293.7 | 288.8 | 284.7 | 285.4 |
| 62.5°  | 253.3 | 259.5 | 257.4 | 256.0 | 258.1 |
| 65°    | 230.2 | 229.5 | 230.9 | 225.4 | 230.2 |
| 67.5°  | 199.5 | 200.2 | 203.7 | 198.1 | 204.4 |
| 70°    | 170.9 | 175.8 | 177.2 | 177.9 | 181.4 |
| 72.5°  | 145.1 | 145.8 | 151.4 | 153.5 | 157.0 |
| 75°    | 114.4 | 120.7 | 127.0 | 130.5 | 129.8 |
| 77.5°  | 88.6  | 94.9  | 102.6 | 108.8 | 110.9 |
| 80°    | 62.8  | 71.2  | 80.9  | 88.6  | 89.3  |
| 82.5°  | 41.9  | 48.1  | 62.1  | 71.9  | 74.0  |
| 85°    | 21.6  | 29.3  | 44.0  | 54.4  | 55.8  |
| 87.5°  | 7.7   | 16.0  | 30.7  | 40.5  | 43.3  |
| 90°    | 0.7   | 7.7   | 19.5  | 28.6  | 32.1  |
| 92.5°  | 0.0   | 2.8   | 11.9  | 19.5  | 22.3  |
| 95°    | 0.0   | 1.4   | 6.3   | 12.6  | 15.3  |
| 97.5°  | 0.0   | 0.7   | 3.5   | 8.4   | 9.8   |
| 100°   | 0.0   | 0.0   | 2.1   | 5.6   | 6.3   |
| 102.5° | 0.0   | 0.0   | 1.4   | 3.5   | 4.2   |
| 105°   | 0.0   | 0.0   | 0.7   | 2.1   | 2.8   |
| 107.5° | 0.0   | 0.0   | 0.7   | 1.4   | 1.4   |
| 110°   | 0.0   | 0.0   | 0.0   | 0.7   | 0.7   |



TEST NUMBER: P1559204

CATALOG NUMBER: 2NWS3C5-NUV-LOW-45K

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-----|-------|-----|
| 112.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 115°   | 0.7 | 0.0   | 0.0 | 0.0   | 0.0 |
| 117.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 120°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 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 |

TEST NUMBER: P1559204

CATALOG NUMBER: 2NWS3C5-NUV-LOW-45K

**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 | 19.8             | 21.4 | 20.2 | 21.7 | 22.1 | 19.7           | 21.3 | 20.1 | 21.6 | 21.9 |
|                 | 3H   | 21.5             | 22.9 | 21.9 | 23.3 | 23.6 | 21.5           | 22.9 | 21.8 | 23.2 | 23.6 |
|                 | 4H   | 22.1             | 23.4 | 22.5 | 23.8 | 24.2 | 22.2           | 23.5 | 22.6 | 23.9 | 24.3 |
|                 | 6H   | 22.5             | 23.7 | 22.9 | 24.1 | 24.5 | 22.8           | 24.1 | 23.2 | 24.4 | 24.8 |
|                 | 8H   | 22.6             | 23.8 | 23.0 | 24.2 | 24.6 | 23.1           | 24.3 | 23.5 | 24.7 | 25.1 |
|                 | 12H  | 22.6             | 23.8 | 23.1 | 24.2 | 24.6 | 23.4           | 24.5 | 23.8 | 24.9 | 25.3 |
| 4H              | 2H   | 20.4             | 21.8 | 20.8 | 22.1 | 22.5 | 20.3           | 21.7 | 20.7 | 22.0 | 22.4 |
|                 | 3H   | 22.3             | 23.4 | 22.7 | 23.9 | 24.3 | 22.3           | 23.4 | 22.7 | 23.8 | 24.3 |
|                 | 4H   | 23.0             | 24.1 | 23.5 | 24.5 | 24.9 | 23.2           | 24.2 | 23.6 | 24.6 | 25.1 |
|                 | 6H   | 23.6             | 24.5 | 24.0 | 24.9 | 25.4 | 24.0           | 24.9 | 24.4 | 25.3 | 25.8 |
|                 | 8H   | 23.7             | 24.5 | 24.2 | 25.0 | 25.5 | 24.3           | 25.2 | 24.8 | 25.6 | 26.1 |
|                 | 12H  | 23.8             | 24.6 | 24.3 | 25.0 | 25.5 | 24.7           | 25.4 | 25.1 | 25.9 | 26.4 |
| 8H              | 4H   | 23.4             | 24.2 | 23.8 | 24.7 | 25.1 | 23.5           | 24.3 | 24.0 | 24.8 | 25.3 |
|                 | 6H   | 24.0             | 24.7 | 24.5 | 25.2 | 25.7 | 24.4           | 25.1 | 24.9 | 25.6 | 26.1 |
|                 | 8H   | 24.2             | 24.9 | 24.8 | 25.4 | 25.9 | 24.9           | 25.5 | 25.4 | 26.0 | 26.5 |
|                 | 12H  | 24.4             | 24.9 | 24.9 | 25.4 | 26.0 | 25.4           | 25.9 | 25.9 | 26.4 | 27.0 |
| 12H             | 4H   | 23.4             | 24.2 | 23.9 | 24.7 | 25.1 | 23.5           | 24.3 | 24.0 | 24.8 | 25.2 |
|                 | 6H   | 24.1             | 24.8 | 24.6 | 25.2 | 25.8 | 24.5           | 25.1 | 25.0 | 25.6 | 26.2 |
|                 | 8H   | 24.4             | 25.0 | 24.9 | 25.5 | 26.0 | 25.0           | 25.6 | 25.5 | 26.1 | 26.7 |















(END OF REPORT)