

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: FAIL-SAFE

Report Number: P1356902

Luminaire Tested: 2ASL4-25VHE-3-92765-UNV_3000K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1356902
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2511-597-12)
Test Lab: INNOVATION CENTER
Issue Date: 2/17/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: 2ASL4-25VHE-3-92765-UNV_3000K
Description: 2FT 2500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 3000K LEDS 3 ROW
Light Source: -
Ballast/Driver: -

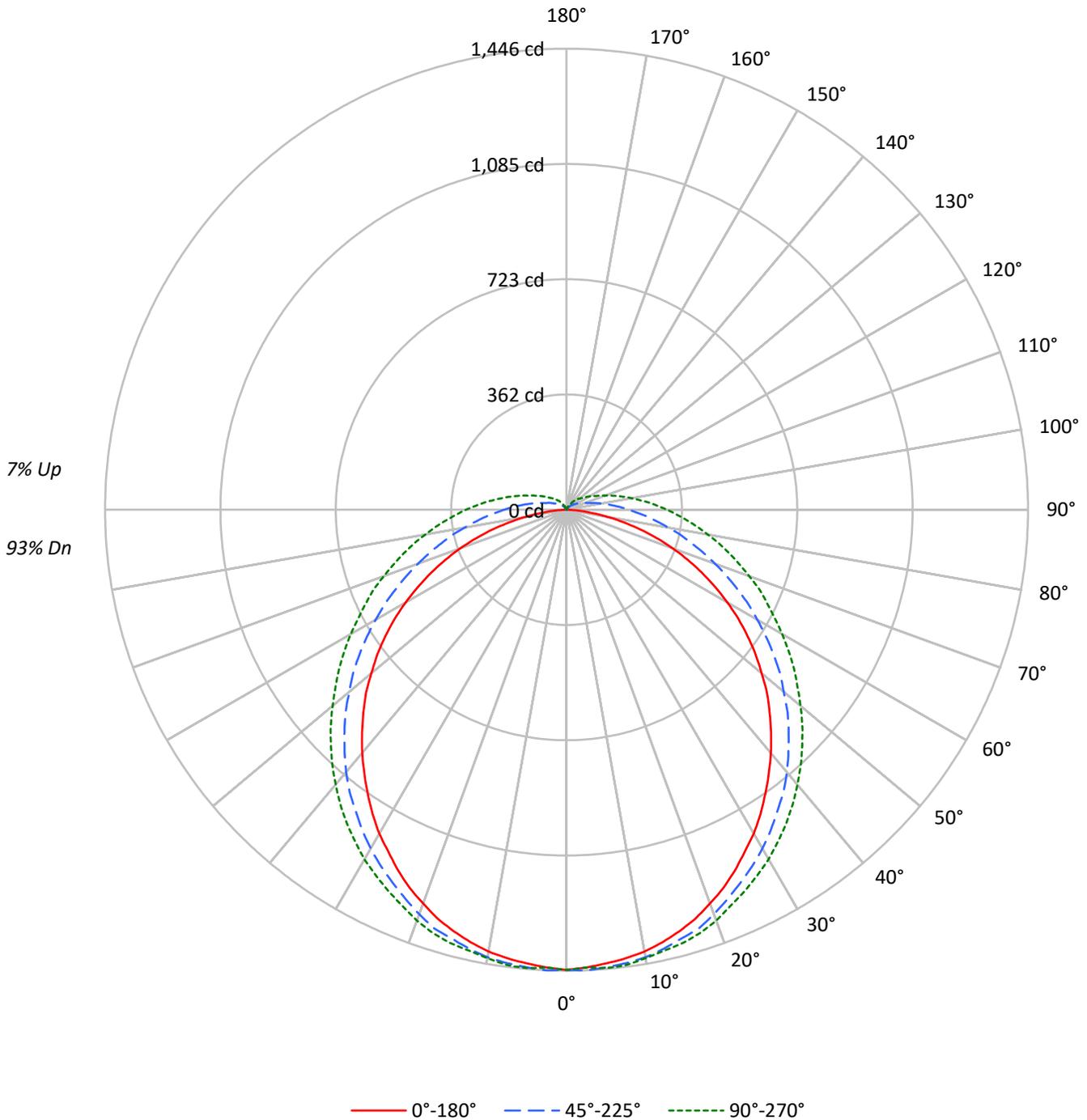
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4907.0 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 46
Input Voltage (V): NR
Input Current (A_{in}): 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 | | | | 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 | 117 | 117 | 117 | 117 | 114 | 114 | 114 | 114 | 107 | 107 | 107 | 101 | 101 | 101 | 96 | 96 | 96 | 96 | 96 | 96 | 93 |
| 1 | 105 | 100 | 95 | 91 | 102 | 97 | 92 | 88 | 91 | 88 | 84 | 86 | 83 | 80 | 81 | 79 | 77 | 77 | 77 | 77 | 74 |
| 2 | 95 | 86 | 79 | 72 | 92 | 84 | 77 | 71 | 79 | 73 | 68 | 75 | 70 | 66 | 71 | 67 | 63 | 63 | 63 | 63 | 61 |
| 3 | 86 | 75 | 67 | 60 | 83 | 73 | 65 | 59 | 69 | 62 | 57 | 65 | 60 | 55 | 62 | 57 | 53 | 53 | 53 | 53 | 50 |
| 4 | 79 | 66 | 57 | 50 | 76 | 65 | 56 | 49 | 61 | 54 | 48 | 58 | 52 | 47 | 55 | 50 | 45 | 45 | 45 | 45 | 43 |
| 5 | 73 | 59 | 50 | 43 | 70 | 58 | 49 | 42 | 55 | 47 | 41 | 52 | 45 | 40 | 49 | 44 | 39 | 39 | 39 | 39 | 37 |
| 6 | 67 | 53 | 44 | 37 | 64 | 52 | 43 | 37 | 49 | 42 | 36 | 47 | 40 | 35 | 45 | 39 | 34 | 34 | 34 | 34 | 32 |
| 7 | 62 | 48 | 39 | 33 | 60 | 47 | 38 | 32 | 45 | 37 | 32 | 43 | 36 | 31 | 41 | 35 | 30 | 30 | 30 | 30 | 28 |
| 8 | 58 | 44 | 35 | 29 | 56 | 43 | 35 | 29 | 41 | 34 | 28 | 39 | 32 | 28 | 37 | 32 | 27 | 27 | 27 | 27 | 25 |
| 9 | 54 | 40 | 32 | 26 | 52 | 39 | 31 | 26 | 38 | 30 | 25 | 36 | 30 | 25 | 35 | 29 | 24 | 24 | 24 | 24 | 22 |
| 10 | 50 | 37 | 29 | 24 | 49 | 36 | 29 | 23 | 35 | 28 | 23 | 33 | 27 | 23 | 32 | 26 | 22 | 22 | 22 | 22 | 20 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 23547 | 23547 | 23547 |
| 5° | 23284 | 23067 | 23008 |
| 10° | 23100 | 22584 | 22426 |
| 15° | 22790 | 21995 | 21933 |
| 20° | 22390 | 21430 | 21377 |
| 25° | 21933 | 20731 | 20744 |
| 30° | 21451 | 20121 | 20209 |
| 35° | 20866 | 19436 | 19614 |
| 40° | 20319 | 18805 | 18987 |
| 45° | 19731 | 18048 | 18357 |
| 50° | 19063 | 17238 | 17702 |
| 55° | 18338 | 16462 | 17113 |
| 60° | 17408 | 15561 | 16516 |
| 65° | 16239 | 14688 | 16021 |
| 70° | 14758 | 13817 | 15634 |
| 75° | 12646 | 13006 | 15368 |
| 80° | 9552 | 12354 | 15255 |
| 85° | 5260 | 12082 | 15482 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19731 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 136.9 | 2.8 |
| 10°-20° | 392.9 | 8.0 |
| 20°-30° | 594.1 | 12.1 |
| 30°-40° | 719.4 | 14.7 |
| 40°-50° | 755.5 | 15.4 |
| 50°-60° | 704.9 | 14.4 |
| 60°-70° | 582.6 | 11.9 |
| 70°-80° | 419.5 | 8.5 |
| 80°-90° | 260.6 | 5.3 |
| 90°-100° | 152.7 | 3.1 |
| 100°-110° | 87.4 | 1.8 |
| 110°-120° | 49.3 | 1.0 |
| 120°-130° | 28.4 | 0.6 |
| 130°-140° | 15.3 | 0.3 |
| 140°-150° | 6.4 | 0.1 |
| 150°-160° | 1.2 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 1123.9 | 22.9 |
| 0°-40° | 1843.2 | 37.6 |
| 0°-60° | 3303.6 | 67.3 |
| 0°-90° | 4566.3 | 93.1 |
| 90°-120° | 289.4 | 5.9 |
| 90°-150° | 339.5 | 6.9 |
| 90°-180° | 341.0 | 6.9 |
| 0°-180° | 4907.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1443 | 1443 | 1443 | 1443 | 1443 | |
| 5° | 1428 | 1440 | 1440 | 1440 | 1443 | 136 |
| 15° | 1368 | 1386 | 1392 | 1401 | 1407 | 386 |
| 25° | 1248 | 1269 | 1290 | 1308 | 1320 | 575 |
| 35° | 1086 | 1116 | 1152 | 1185 | 1200 | 680 |
| 45° | 900 | 933 | 984 | 1026 | 1044 | 694 |
| 55° | 693 | 732 | 792 | 849 | 870 | 619 |
| 65° | 468 | 513 | 591 | 666 | 693 | 463 |
| 75° | 240 | 300 | 405 | 492 | 528 | 254 |
| 85° | 45 | 135 | 255 | 345 | 378 | 55 |
| 90° | 0 | 81 | 195 | 279 | 315 | 2 |
| 95° | 0 | 51 | 147 | 225 | 258 | 0 |
| 105° | 0 | 18 | 81 | 141 | 165 | 0 |
| 115° | 0 | 9 | 48 | 87 | 102 | 0 |
| 125° | 0 | 6 | 30 | 57 | 66 | 0 |
| 135° | 0 | 0 | 18 | 36 | 45 | 0 |
| 145° | 0 | 0 | 9 | 21 | 24 | 0 |
| 155° | 0 | 0 | 0 | 6 | 9 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P1356902
 CATALOG NUMBER: 2ASL4-25VHE-3-92765-UNV_3000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1443.2 | 1443.2 | 1443.2 | 1443.2 | 1443.2 |
| 2.5° | 1437.2 | 1446.2 | 1446.2 | 1437.2 | 1437.2 |
| 5° | 1428.2 | 1440.2 | 1440.2 | 1440.2 | 1443.2 |
| 7.5° | 1419.2 | 1434.2 | 1434.2 | 1434.2 | 1440.2 |
| 10° | 1407.2 | 1422.2 | 1425.2 | 1425.2 | 1428.2 |
| 12.5° | 1389.2 | 1407.2 | 1410.2 | 1413.2 | 1416.2 |
| 15° | 1368.2 | 1386.2 | 1392.2 | 1401.2 | 1407.2 |
| 17.5° | 1344.2 | 1365.2 | 1377.2 | 1386.2 | 1392.2 |
| 20° | 1314.2 | 1335.2 | 1350.2 | 1362.2 | 1371.2 |
| 22.5° | 1284.2 | 1302.2 | 1320.2 | 1335.2 | 1344.2 |
| 25° | 1248.2 | 1269.2 | 1290.2 | 1308.2 | 1320.2 |
| 27.5° | 1209.2 | 1233.2 | 1260.2 | 1281.2 | 1293.2 |
| 30° | 1173.2 | 1197.2 | 1227.2 | 1254.2 | 1266.2 |
| 32.5° | 1131.2 | 1158.2 | 1191.2 | 1218.2 | 1233.2 |
| 35° | 1086.2 | 1116.2 | 1152.2 | 1185.2 | 1200.2 |
| 37.5° | 1041.2 | 1071.2 | 1116.2 | 1149.2 | 1164.2 |
| 40° | 996.1 | 1026.2 | 1074.2 | 1110.2 | 1125.2 |
| 42.5° | 948.1 | 978.1 | 1029.2 | 1068.2 | 1086.2 |
| 45° | 900.1 | 933.1 | 984.1 | 1026.2 | 1044.2 |
| 47.5° | 852.1 | 885.1 | 939.1 | 984.1 | 1002.1 |
| 50° | 798.1 | 834.1 | 888.1 | 939.1 | 957.1 |
| 52.5° | 747.1 | 783.1 | 843.1 | 894.1 | 912.1 |
| 55° | 693.1 | 732.1 | 792.1 | 849.1 | 870.1 |
| 57.5° | 639.1 | 678.1 | 741.1 | 801.1 | 825.1 |
| 60° | 582.1 | 624.1 | 690.1 | 753.1 | 780.1 |
| 62.5° | 525.1 | 570.1 | 642.1 | 708.1 | 735.1 |
| 65° | 468.1 | 513.1 | 591.1 | 666.1 | 693.1 |
| 67.5° | 411.1 | 459.1 | 543.1 | 621.1 | 654.1 |
| 70° | 354.1 | 405.1 | 495.1 | 576.1 | 609.1 |
| 72.5° | 297.0 | 351.1 | 450.1 | 534.1 | 567.1 |
| 75° | 240.0 | 300.0 | 405.1 | 492.1 | 528.1 |
| 77.5° | 183.0 | 252.0 | 366.1 | 453.1 | 489.1 |
| 80° | 132.0 | 210.0 | 324.0 | 414.1 | 450.1 |
| 82.5° | 84.0 | 168.0 | 288.0 | 378.1 | 414.1 |
| 85° | 45.0 | 135.0 | 255.0 | 345.1 | 378.1 |
| 87.5° | 15.0 | 105.0 | 222.0 | 312.0 | 345.1 |
| 90° | 0.0 | 81.0 | 195.0 | 279.0 | 315.0 |
| 92.5° | 0.0 | 63.0 | 171.0 | 252.0 | 285.0 |
| 95° | 0.0 | 51.0 | 147.0 | 225.0 | 258.0 |
| 97.5° | 0.0 | 42.0 | 129.0 | 201.0 | 231.0 |
| 100° | 0.0 | 33.0 | 111.0 | 180.0 | 207.0 |
| 102.5° | 0.0 | 27.0 | 96.0 | 159.0 | 186.0 |
| 105° | 0.0 | 18.0 | 81.0 | 141.0 | 165.0 |
| 107.5° | 0.0 | 15.0 | 69.0 | 126.0 | 147.0 |
| 110° | 0.0 | 12.0 | 63.0 | 108.0 | 129.0 |



TEST NUMBER: P1356902
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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|------|-------|-------|
| 112.5° | 0.0 | 9.0 | 57.0 | 96.0 | 117.0 |
| 115° | 0.0 | 9.0 | 48.0 | 87.0 | 102.0 |
| 117.5° | 0.0 | 9.0 | 42.0 | 78.0 | 93.0 |
| 120° | 0.0 | 6.0 | 39.0 | 69.0 | 84.0 |
| 122.5° | 0.0 | 6.0 | 33.0 | 63.0 | 75.0 |
| 125° | 0.0 | 6.0 | 30.0 | 57.0 | 66.0 |
| 127.5° | 0.0 | 3.0 | 27.0 | 51.0 | 60.0 |
| 130° | 0.0 | 3.0 | 24.0 | 45.0 | 54.0 |
| 132.5° | 0.0 | 3.0 | 21.0 | 42.0 | 51.0 |
| 135° | 0.0 | 0.0 | 18.0 | 36.0 | 45.0 |
| 137.5° | 0.0 | 0.0 | 15.0 | 33.0 | 39.0 |
| 140° | 0.0 | 0.0 | 12.0 | 27.0 | 36.0 |
| 142.5° | 0.0 | 0.0 | 9.0 | 24.0 | 30.0 |
| 145° | 0.0 | 0.0 | 9.0 | 21.0 | 24.0 |
| 147.5° | 0.0 | 0.0 | 6.0 | 15.0 | 21.0 |
| 150° | 0.0 | 0.0 | 3.0 | 12.0 | 15.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 9.0 | 12.0 |
| 155° | 0.0 | 0.0 | 0.0 | 6.0 | 9.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 |
| 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 | 20.28 | 21.82 | 20.75 | 22.27 | 22.76 | 22.22 | 23.76 | 22.69 | 24.22 | 24.70 |
| | 3H | 21.78 | 23.18 | 22.26 | 23.65 | 24.17 | 24.65 | 26.05 | 25.13 | 26.52 | 27.04 |
| | 4H | 22.26 | 23.59 | 22.76 | 24.07 | 24.61 | 25.82 | 27.15 | 26.32 | 27.63 | 28.17 |
| | 6H | 22.53 | 23.77 | 23.05 | 24.27 | 24.82 | 27.02 | 28.26 | 27.53 | 28.75 | 29.31 |
| | 8H | 22.59 | 23.77 | 23.11 | 24.29 | 24.85 | 27.63 | 28.82 | 28.16 | 29.34 | 29.90 |
| | 12H | 22.60 | 23.74 | 23.13 | 24.25 | 24.84 | 28.28 | 29.42 | 28.81 | 29.93 | 30.52 |
| 4H | 2H | 21.14 | 22.47 | 21.64 | 22.95 | 23.49 | 22.66 | 23.99 | 23.16 | 24.47 | 25.01 |
| | 3H | 22.87 | 24.01 | 23.39 | 24.53 | 25.10 | 25.31 | 26.45 | 25.83 | 26.97 | 27.53 |
| | 4H | 23.48 | 24.52 | 24.01 | 25.05 | 25.65 | 26.65 | 27.69 | 27.19 | 28.23 | 28.82 |
| | 6H | 23.88 | 24.80 | 24.43 | 25.36 | 25.96 | 28.05 | 28.97 | 28.60 | 29.53 | 30.13 |
| | 8H | 23.97 | 24.84 | 24.53 | 25.40 | 26.02 | 28.76 | 29.63 | 29.32 | 30.19 | 30.81 |
| | 12H | 24.02 | 24.80 | 24.60 | 25.39 | 26.02 | 29.54 | 30.32 | 30.12 | 30.91 | 31.54 |
| 8H | 4H | 24.14 | 25.01 | 24.70 | 25.57 | 26.19 | 26.87 | 27.73 | 27.43 | 28.30 | 28.92 |
| | 6H | 24.72 | 25.45 | 25.31 | 26.06 | 26.68 | 28.44 | 29.17 | 29.03 | 29.77 | 30.40 |
| | 8H | 24.90 | 25.56 | 25.51 | 26.18 | 26.81 | 29.29 | 29.96 | 29.90 | 30.57 | 31.21 |
| | 12H | 25.02 | 25.61 | 25.62 | 26.21 | 26.92 | 30.26 | 30.85 | 30.86 | 31.45 | 32.15 |
| 12H | 4H | 24.33 | 25.11 | 24.91 | 25.70 | 26.32 | 26.88 | 27.66 | 27.46 | 28.25 | 28.88 |
| | 6H | 25.00 | 25.66 | 25.61 | 26.28 | 26.92 | 28.48 | 29.14 | 29.08 | 29.75 | 30.39 |
| | 8H | 25.28 | 25.87 | 25.89 | 26.47 | 27.18 | 29.40 | 29.99 | 30.01 | 30.60 | 31.30 |