

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: CORELITE

Report Number: P824273

Luminaire Tested: CB3-D-030U-030D-840-1D-UNV-STD-W-4

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P824273  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-242-3, G2-2312-242-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: CB3-D-030U-030D-840-1D-UNV-STD-W-4  
Description: CORELITE Bryx SLOT LED LUMINAIRE, UPLIGHT DIFFUSER DUST COVER  
3-INCH APERTURE  
DOWNLIGHT 300 LUMENS PER FOOT  
UPLIGHT 300 LUMENS PER FOOT  
Light Source: 80 CRI, 4000K CCT LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2279.3 lumens  
Efficiency: N/A  
Efficacy: 136.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26  
Luminous Opening: Rectangular (W 0.24' x L: 4' x H: 0')  
CIE Type: General Diffuse

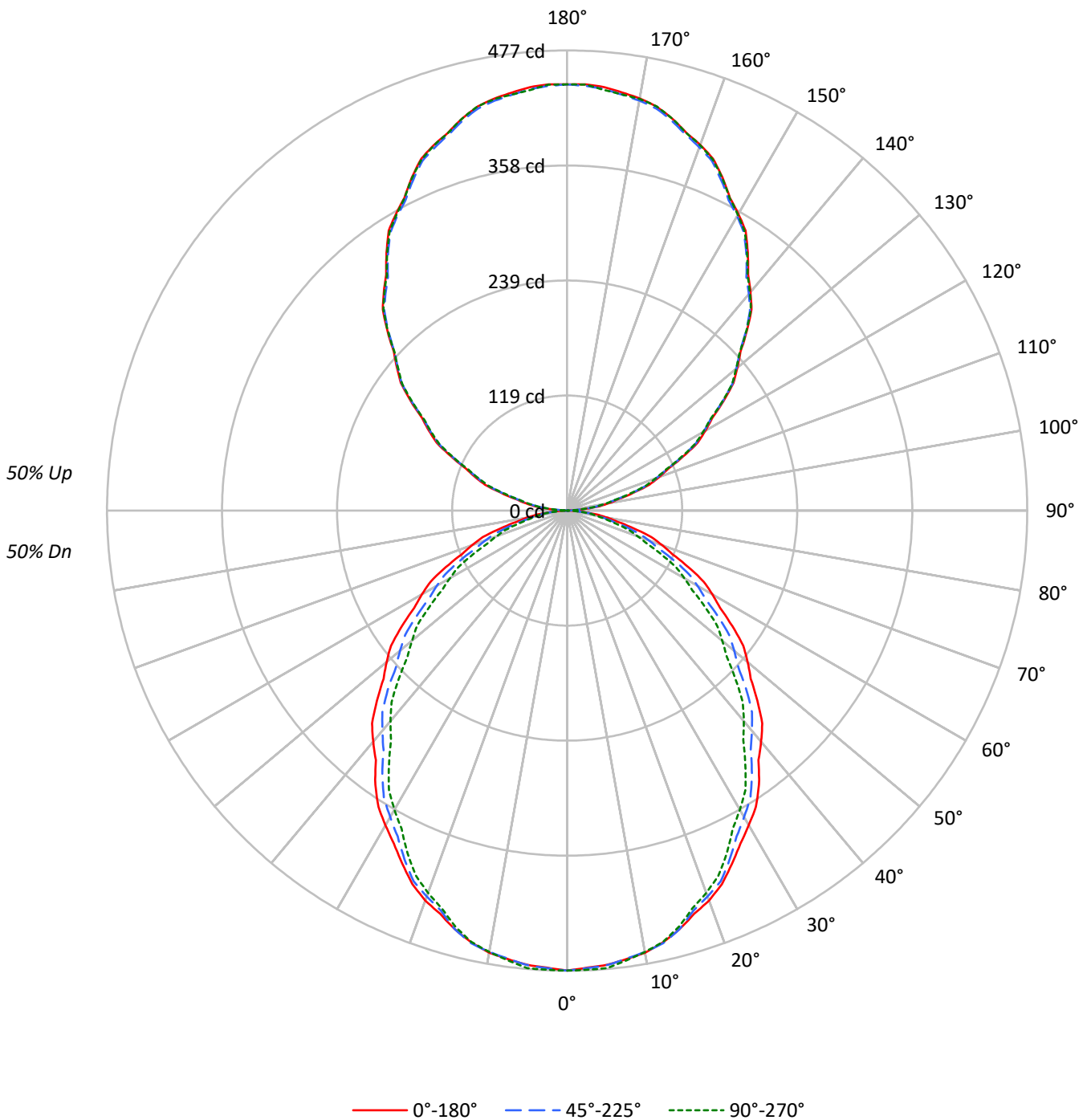
Input Watts (W): 16.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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 | 0  |   |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |
| 0   | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 56 | 56 | 56 | 50 |    |    |    |   |
| 1   | 98  | 94  | 90  | 86  | 90 | 87 | 83 | 80 | 73 | 71 | 69 | 61 | 60 | 58 | 50 | 49 | 48 | 43 |    |    |    |   |
| 2   | 89  | 82  | 76  | 71  | 82 | 76 | 71 | 66 | 64 | 61 | 57 | 54 | 51 | 49 | 44 | 42 | 41 | 36 |    |    |    |   |
| 3   | 82  | 72  | 65  | 59  | 75 | 67 | 61 | 56 | 57 | 52 | 48 | 48 | 44 | 41 | 39 | 37 | 35 | 31 |    |    |    |   |
| 4   | 75  | 64  | 56  | 50  | 69 | 59 | 53 | 47 | 51 | 46 | 41 | 43 | 39 | 36 | 35 | 32 | 30 | 26 |    |    |    |   |
| 5   | 69  | 57  | 49  | 43  | 63 | 53 | 46 | 41 | 46 | 40 | 36 | 38 | 34 | 31 | 32 | 29 | 26 | 23 |    |    |    |   |
| 6   | 63  | 51  | 43  | 38  | 58 | 48 | 41 | 35 | 41 | 35 | 31 | 35 | 30 | 27 | 29 | 26 | 23 | 20 |    |    |    |   |
| 7   | 59  | 46  | 38  | 33  | 54 | 43 | 36 | 31 | 37 | 32 | 28 | 32 | 27 | 24 | 26 | 23 | 21 | 18 |    |    |    |   |
| 8   | 54  | 42  | 34  | 29  | 50 | 39 | 32 | 28 | 34 | 29 | 25 | 29 | 25 | 22 | 24 | 21 | 19 | 16 |    |    |    |   |
| 9   | 51  | 39  | 31  | 26  | 47 | 36 | 29 | 25 | 31 | 26 | 22 | 27 | 22 | 19 | 22 | 19 | 17 | 15 |    |    |    |   |
| 10  | 47  | 35  | 28  | 23  | 44 | 33 | 27 | 22 | 29 | 24 | 20 | 25 | 21 | 18 | 21 | 18 | 15 | 13 |    |    |    |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 5395 | 5395 | 5395 |
| 5°  | 5369 | 5372 | 5407 |
| 10° | 5346 | 5338 | 5338 |
| 15° | 5264 | 5264 | 5233 |
| 20° | 5179 | 5126 | 5076 |
| 25° | 5044 | 4980 | 4891 |
| 30° | 4920 | 4792 | 4677 |
| 35° | 4790 | 4613 | 4449 |
| 40° | 4619 | 4399 | 4208 |
| 45° | 4461 | 4207 | 3948 |
| 50° | 4300 | 3978 | 3693 |
| 55° | 4125 | 3758 | 3450 |
| 60° | 3935 | 3530 | 3177 |
| 65° | 3713 | 3272 | 2889 |
| 70° | 3460 | 2967 | 2574 |
| 75° | 3134 | 2605 | 2291 |
| 80° | 2737 | 2183 | 2026 |
| 85° | 2103 | 1843 | 1843 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4461 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 45.0   | 2.0       |
| 10°-20°   | 126.4  | 5.5       |
| 20°-30°   | 183.5  | 8.1       |
| 30°-40°   | 208.6  | 9.2       |
| 40°-50°   | 202.5  | 8.9       |
| 50°-60°   | 171.0  | 7.5       |
| 60°-70°   | 121.7  | 5.3       |
| 70°-80°   | 65.0   | 2.9       |
| 80°-90°   | 17.2   | 0.8       |
| 90°-100°  | 18.7   | 0.8       |
| 100°-110° | 73.0   | 3.2       |
| 110°-120° | 130.2  | 5.7       |
| 120°-130° | 176.1  | 7.7       |
| 130°-140° | 202.5  | 8.9       |
| 140°-150° | 203.2  | 8.9       |
| 150°-160° | 174.8  | 7.7       |
| 160°-170° | 118.3  | 5.2       |
| 170°-180° | 41.7   | 1.8       |
| 0°-30°    | 354.9  | 15.6      |
| 0°-40°    | 563.5  | 24.7      |
| 0°-60°    | 937.0  | 41.1      |
| 0°-90°    | 1140.8 | 50.0      |
| 90°-120°  | 221.9  | 9.7       |
| 90°-150°  | 803.7  | 35.3      |
| 90°-180°  | 1139.0 | 50.0      |
| 0°-180°   | 2279.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 477 | 477   | 477 | 477   | 477 |      |
| 5°   | 473 | 479   | 473 | 472   | 476 | 45   |
| 15°  | 449 | 453   | 449 | 447   | 447 | 127  |
| 25°  | 404 | 405   | 399 | 394   | 392 | 186  |
| 35°  | 347 | 344   | 334 | 324   | 322 | 216  |
| 45°  | 279 | 274   | 263 | 250   | 247 | 215  |
| 55°  | 209 | 204   | 190 | 178   | 175 | 187  |
| 65°  | 139 | 134   | 122 | 111   | 108 | 137  |
| 75°  | 72  | 68    | 60  | 53    | 52  | 76   |
| 85°  | 16  | 15    | 14  | 14    | 14  | 19   |
| 90°  | 0   | 0     | 0   | 0     | 0   | 1    |
| 95°  | 18  | 16    | 15  | 14    | 14  | 20   |
| 105° | 71  | 70    | 68  | 67    | 66  | 76   |
| 115° | 133 | 133   | 130 | 130   | 130 | 132  |
| 125° | 198 | 200   | 196 | 195   | 196 | 177  |
| 135° | 264 | 266   | 262 | 260   | 262 | 203  |
| 145° | 326 | 329   | 324 | 322   | 325 | 204  |
| 155° | 381 | 384   | 378 | 376   | 380 | 175  |
| 165° | 421 | 424   | 419 | 416   | 421 | 119  |
| 175° | 441 | 445   | 439 | 436   | 438 | 42   |
| 180° | 442 | 442   | 442 | 442   | 442 |      |



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 476.8 | 476.8 | 476.8 | 476.8 | 476.8 |
| 2.5°   | 474.3 | 479.1 | 474.9 | 475.4 | 476.5 |
| 5°     | 472.7 | 478.7 | 473.0 | 472.4 | 476.1 |
| 7.5°   | 469.1 | 474.5 | 468.6 | 467.3 | 470.3 |
| 10°    | 465.3 | 471.2 | 464.6 | 462.9 | 464.6 |
| 12.5°  | 458.5 | 464.7 | 459.4 | 456.7 | 458.1 |
| 15°    | 449.4 | 453.3 | 449.4 | 446.7 | 446.7 |
| 17.5°  | 438.2 | 442.4 | 434.9 | 433.0 | 432.2 |
| 20°    | 430.1 | 433.7 | 425.7 | 422.9 | 421.6 |
| 22.5°  | 419.2 | 422.6 | 415.9 | 411.0 | 409.7 |
| 25°    | 404.0 | 405.3 | 398.9 | 393.5 | 391.8 |
| 27.5°  | 389.1 | 389.4 | 380.6 | 374.0 | 371.8 |
| 30°    | 376.6 | 376.9 | 366.8 | 359.7 | 358.0 |
| 32.5°  | 364.2 | 363.2 | 353.5 | 345.0 | 343.9 |
| 35°    | 346.8 | 343.5 | 334.0 | 324.1 | 322.1 |
| 37.5°  | 325.9 | 323.9 | 312.7 | 302.8 | 299.8 |
| 40°    | 312.7 | 309.3 | 297.8 | 287.9 | 284.9 |
| 42.5°  | 299.4 | 295.6 | 283.7 | 272.7 | 269.5 |
| 45°    | 278.8 | 274.5 | 262.9 | 250.3 | 246.7 |
| 47.5°  | 258.1 | 253.4 | 240.6 | 228.4 | 224.4 |
| 50°    | 244.3 | 239.3 | 226.0 | 214.1 | 209.8 |
| 52.5°  | 230.2 | 225.0 | 211.7 | 199.5 | 196.0 |
| 55°    | 209.1 | 203.5 | 190.5 | 178.2 | 174.9 |
| 57.5°  | 188.0 | 182.4 | 169.5 | 157.9 | 154.0 |
| 60°    | 173.9 | 168.6 | 156.0 | 144.4 | 140.4 |
| 62.5°  | 159.6 | 154.5 | 142.2 | 130.9 | 127.2 |
| 65°    | 138.7 | 133.8 | 122.2 | 111.2 | 107.9 |
| 67.5°  | 118.1 | 113.9 | 102.4 | 92.4  | 89.7  |
| 70°    | 104.6 | 100.6 | 89.7  | 80.5  | 77.8  |
| 72.5°  | 91.6  | 87.3  | 76.9  | 69.1  | 67.3  |
| 75°    | 71.7  | 67.8  | 59.6  | 53.4  | 52.4  |
| 77.5°  | 53.6  | 50.4  | 43.2  | 39.8  | 39.3  |
| 80°    | 42.0  | 39.0  | 33.5  | 31.1  | 31.1  |
| 82.5°  | 31.1  | 28.7  | 25.1  | 24.1  | 24.1  |
| 85°    | 16.2  | 14.9  | 14.2  | 14.2  | 14.2  |
| 87.5°  | 4.9   | 4.9   | 4.6   | 4.3   | 4.3   |
| 90°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 92.5°  | 4.9   | 4.3   | 2.7   | 2.2   | 2.2   |
| 95°    | 18.0  | 16.3  | 14.6  | 13.6  | 13.9  |
| 97.5°  | 33.1  | 31.5  | 29.4  | 28.4  | 28.7  |
| 100°   | 43.7  | 42.4  | 40.0  | 39.0  | 39.0  |
| 102.5° | 54.0  | 53.2  | 50.8  | 49.8  | 50.1  |
| 105°   | 70.8  | 70.5  | 68.1  | 67.0  | 66.4  |
| 107.5° | 89.4  | 88.8  | 86.1  | 86.0  | 85.4  |
| 110°   | 101.3 | 100.9 | 98.6  | 98.2  | 97.9  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 113.5 | 113.9 | 111.3 | 111.0 | 110.6 |
| 115°   | 132.8 | 133.4 | 130.4 | 130.1 | 129.7 |
| 117.5° | 152.6 | 153.5 | 150.3 | 149.9 | 149.3 |
| 120°   | 165.3 | 167.3 | 163.3 | 162.9 | 162.6 |
| 122.5° | 178.3 | 180.0 | 176.3 | 175.7 | 175.6 |
| 125°   | 197.8 | 200.1 | 196.1 | 195.4 | 195.8 |
| 127.5° | 217.3 | 219.7 | 216.0 | 214.6 | 215.4 |
| 130°   | 230.3 | 233.0 | 229.0 | 227.6 | 228.6 |
| 132.5° | 243.6 | 246.2 | 242.2 | 240.9 | 242.4 |
| 135°   | 263.5 | 266.2 | 261.8 | 259.9 | 262.5 |
| 137.5° | 283.0 | 285.3 | 280.5 | 279.2 | 281.9 |
| 140°   | 295.7 | 298.0 | 293.0 | 291.4 | 294.7 |
| 142.5° | 308.2 | 310.7 | 305.2 | 303.6 | 307.1 |
| 145°   | 326.5 | 329.2 | 323.8 | 322.2 | 325.2 |
| 147.5° | 344.1 | 346.8 | 341.4 | 339.5 | 342.6 |
| 150°   | 355.0 | 357.9 | 352.3 | 350.6 | 354.0 |
| 152.5° | 365.5 | 368.8 | 362.8 | 361.0 | 365.1 |
| 155°   | 381.0 | 384.4 | 378.0 | 376.4 | 380.4 |
| 157.5° | 395.0 | 398.1 | 392.3 | 390.7 | 394.1 |
| 160°   | 403.4 | 406.7 | 400.7 | 399.1 | 403.1 |
| 162.5° | 410.7 | 414.0 | 408.6 | 406.4 | 410.4 |
| 165°   | 420.7 | 424.3 | 418.6 | 416.4 | 420.7 |
| 167.5° | 429.0 | 432.9 | 426.9 | 424.8 | 429.1 |
| 170°   | 433.9 | 437.5 | 431.5 | 428.9 | 433.2 |
| 172.5° | 437.1 | 440.8 | 434.8 | 432.1 | 435.1 |
| 175°   | 440.7 | 444.6 | 438.6 | 436.0 | 437.6 |
| 177.5° | 442.2 | 445.4 | 440.6 | 438.2 | 441.9 |
| 180°   | 441.7 | 441.7 | 441.7 | 441.7 | 441.7 |



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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 | 13.00            | 13.86 | 13.96 | 14.83 | 16.10 | 11.93          | 12.78 | 12.89 | 13.75 | 15.02 |
|                 | 3H   | 14.67            | 15.43 | 15.64 | 16.42 | 17.71 | 13.34          | 14.10 | 14.31 | 15.08 | 16.38 |
|                 | 4H   | 15.30            | 16.02 | 16.29 | 17.01 | 18.31 | 13.86          | 14.58 | 14.84 | 15.56 | 16.87 |
|                 | 6H   | 15.69            | 16.35 | 16.68 | 17.34 | 18.66 | 14.17          | 14.84 | 15.17 | 15.83 | 17.14 |
|                 | 8H   | 15.82            | 16.46 | 16.82 | 17.46 | 18.78 | 14.30          | 14.93 | 15.30 | 15.94 | 17.25 |
|                 | 12H  | 15.89            | 16.49 | 16.90 | 17.49 | 18.83 | 14.37          | 14.97 | 15.38 | 15.97 | 17.31 |
| 4H              | 2H   | 13.41            | 14.13 | 14.40 | 15.12 | 16.42 | 12.55          | 13.28 | 13.54 | 14.26 | 15.56 |
|                 | 3H   | 15.30            | 15.90 | 16.30 | 16.92 | 18.23 | 14.17          | 14.77 | 15.17 | 15.79 | 17.10 |
|                 | 4H   | 16.05            | 16.60 | 17.06 | 17.61 | 18.95 | 14.78          | 15.33 | 15.79 | 16.33 | 17.67 |
|                 | 6H   | 16.55            | 17.03 | 17.57 | 18.06 | 19.39 | 15.19          | 15.66 | 16.21 | 16.69 | 18.03 |
|                 | 8H   | 16.74            | 17.18 | 17.76 | 18.21 | 19.56 | 15.36          | 15.80 | 16.38 | 16.83 | 18.18 |
|                 | 12H  | 16.84            | 17.24 | 17.88 | 18.28 | 19.63 | 15.46          | 15.86 | 16.50 | 16.90 | 18.26 |
| 8H              | 4H   | 16.18            | 16.62 | 17.20 | 17.64 | 19.00 | 15.04          | 15.48 | 16.06 | 16.50 | 17.86 |
|                 | 6H   | 16.80            | 17.16 | 17.84 | 18.23 | 19.58 | 15.57          | 15.93 | 16.61 | 17.00 | 18.35 |
|                 | 8H   | 17.07            | 17.39 | 18.13 | 18.45 | 19.81 | 15.82          | 16.14 | 16.87 | 17.19 | 18.56 |
|                 | 12H  | 17.24            | 17.52 | 18.29 | 18.57 | 19.98 | 16.00          | 16.28 | 17.05 | 17.32 | 18.73 |
| 12H             | 4H   | 16.15            | 16.55 | 17.19 | 17.59 | 18.95 | 15.04          | 15.44 | 16.08 | 16.48 | 17.84 |
|                 | 6H   | 16.81            | 17.14 | 17.87 | 18.19 | 19.56 | 15.62          | 15.95 | 16.68 | 17.00 | 18.36 |
|                 | 8H   | 17.11            | 17.40 | 18.17 | 18.44 | 19.85 | 15.91          | 16.19 | 16.96 | 17.23 | 18.64 |