

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: PrentaLux

Report Number: P1057181

Luminaire Tested: PRLX-CYL2-X-930-10L-FL-U-S-X-X-BLAK

Issue Date: 8/6/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1057181  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2504-407-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/6/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PrentaLux  
Catalog Number: PRLX-CYL2-X-930-10L-FL-U-S-X-X-BLAK  
Description: PrentaLux 2-INCH CYLINDER  
DOWNLIGHT 1000 LUMENS, FLOOD OPTIC (38-DEGREES)  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

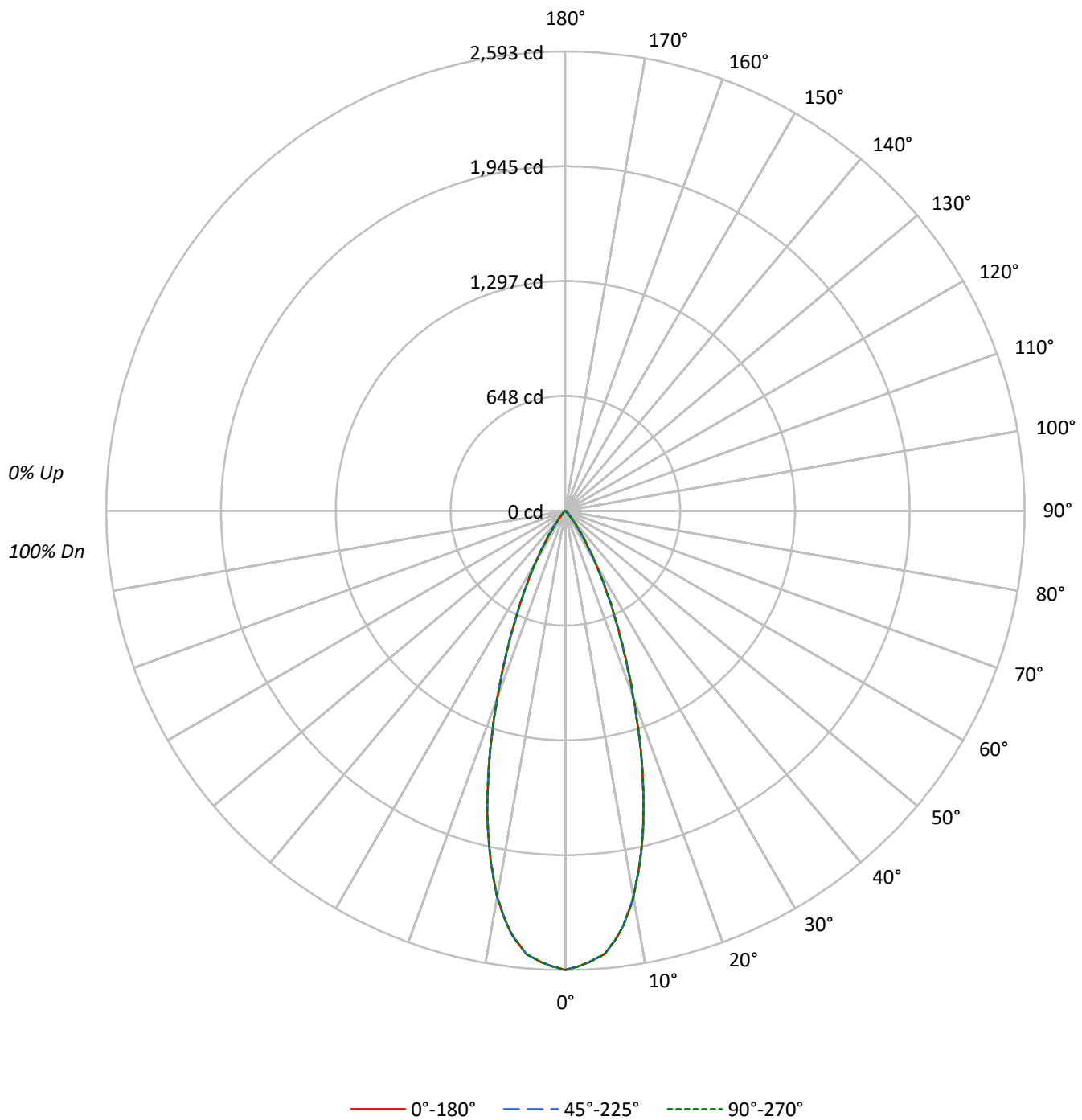
Lumens per Lamp: N/A  
Luminaire Lumens: 1111.2 lumens  
Efficiency: N/A  
Efficacy: 123.5 lumens/watt  
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.6  
Luminous Opening: Circular (Dia: 0.15' x H: 0')  
CIE Type: Direct

Input Watts (W): 9  
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

TEST NUMBER: P1057181

CATALOG NUMBER: PRLX-CYL2-X-930-10L-FL-U-S-X-X-BLAK

### Luminous Intensity Polar Plot



TEST NUMBER: P1057181

CATALOG NUMBER: PRLX-CYL2-X-930-10L-FL-U-S-X-X-BLAK

**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  |  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 100 |
| 1   | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 |  | 102 | 101 | 100 |  | 95  |
| 2   | 110 | 106 | 102 | 100 | 108 | 104 | 101 | 98  | 101 | 98  | 96  |  | 98  | 96  | 94  |  | 91  |
| 3   | 106 | 100 | 96  | 93  | 104 | 99  | 95  | 92  | 96  | 93  | 91  |  | 94  | 91  | 89  |  | 87  |
| 4   | 102 | 95  | 91  | 87  | 100 | 94  | 90  | 87  | 92  | 89  | 86  |  | 90  | 87  | 85  |  | 82  |
| 5   | 98  | 91  | 86  | 82  | 96  | 90  | 85  | 82  | 88  | 84  | 81  |  | 87  | 83  | 81  |  | 79  |
| 6   | 94  | 87  | 82  | 78  | 93  | 86  | 81  | 78  | 85  | 80  | 77  |  | 83  | 80  | 77  |  | 75  |
| 7   | 91  | 83  | 78  | 75  | 89  | 82  | 78  | 74  | 81  | 77  | 74  |  | 80  | 76  | 74  |  | 72  |
| 8   | 87  | 79  | 75  | 71  | 86  | 79  | 74  | 71  | 78  | 74  | 71  |  | 77  | 73  | 70  |  | 69  |
| 9   | 84  | 76  | 71  | 68  | 83  | 76  | 71  | 68  | 75  | 71  | 68  |  | 74  | 70  | 68  |  | 66  |
| 10  | 81  | 73  | 69  | 65  | 80  | 73  | 68  | 65  | 72  | 68  | 65  |  | 71  | 68  | 65  |  | 64  |

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

|     | 0°      | 45°     | 90°     |
|-----|---------|---------|---------|
| 0°  | 1670851 | 1670851 | 1670851 |
| 5°  | 1626130 | 1626130 | 1626130 |
| 10° | 1448886 | 1448886 | 1448886 |
| 15° | 1136828 | 1136828 | 1136828 |
| 20° | 766767  | 766767  | 766767  |
| 25° | 461891  | 461891  | 461891  |
| 30° | 249873  | 249873  | 249873  |
| 35° | 105338  | 105338  | 105338  |
| 40° | 35079   | 35079   | 35079   |
| 45° | 15037   | 15037   | 15037   |
| 50° | 8822    | 8822    | 8822    |
| 55° | 6179    | 6179    | 6179    |
| 60° | 4253    | 4253    | 4253    |
| 65° | 3355    | 3355    | 3355    |
| 70° | 2073    | 2073    | 2073    |
| 75° | 0       | 0       | 0       |
| 80° | 0       | 0       | 0       |
| 85° | 0       | 0       | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15037 cd/sqm

TEST NUMBER: P1057181

CATALOG NUMBER: PRLX-CYL2-X-930-10L-FL-U-S-X-X-BLAK

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 230.0  | 20.7      |
| 10°-20°   | 462.1  | 41.6      |
| 20°-30°   | 303.5  | 27.3      |
| 30°-40°   | 93.4   | 8.4       |
| 40°-50°   | 14.8   | 1.3       |
| 50°-60°   | 5.0    | 0.4       |
| 60°-70°   | 1.9    | 0.2       |
| 70°-80°   | 0.4    | 0.0       |
| 80°-90°   | 0.0    | 0.0       |
| 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°    | 995.6  | 89.6      |
| 0°-40°    | 1089.1 | 98.0      |
| 0°-60°    | 1108.8 | 99.8      |
| 0°-90°    | 1111.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1111.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2593 | 2593  | 2593 | 2593  | 2593 |      |
| 5°  | 2514 | 2514  | 2514 | 2514  | 2514 | 230  |
| 15° | 1704 | 1704  | 1704 | 1704  | 1704 | 462  |
| 25° | 650  | 650   | 650  | 650   | 650  | 303  |
| 35° | 134  | 134   | 134  | 134   | 134  | 93   |
| 45° | 16   | 16    | 16   | 16    | 16   | 15   |
| 55° | 6    | 6     | 6    | 6     | 6    | 5    |
| 65° | 2    | 2     | 2    | 2     | 2    | 2    |
| 75° | 0    | 0     | 0    | 0     | 0    | 0    |
| 85° | 0    | 0     | 0    | 0     | 0    | 0    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

TEST NUMBER: P1057181

CATALOG NUMBER: PRLX-CYL2-X-930-10L-FL-U-S-X-X-BLAK

**CANDELA DISTRIBUTION (FULL):**

|     | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-----|--------|--------|--------|--------|--------|
| 0°  | 2592.8 | 2592.8 | 2592.8 | 2592.8 | 2592.8 |
| 1°  | 2580.9 | 2580.9 | 2580.9 | 2580.9 | 2580.9 |
| 2°  | 2569.1 | 2569.1 | 2569.1 | 2569.1 | 2569.1 |
| 3°  | 2553.3 | 2553.3 | 2553.3 | 2553.3 | 2553.3 |
| 4°  | 2533.5 | 2533.5 | 2533.5 | 2533.5 | 2533.5 |
| 5°  | 2513.8 | 2513.8 | 2513.8 | 2513.8 | 2513.8 |
| 6°  | 2467.7 | 2467.7 | 2467.7 | 2467.7 | 2467.7 |
| 7°  | 2421.6 | 2421.6 | 2421.6 | 2421.6 | 2421.6 |
| 8°  | 2361.7 | 2361.7 | 2361.7 | 2361.7 | 2361.7 |
| 9°  | 2288.0 | 2288.0 | 2288.0 | 2288.0 | 2288.0 |
| 10° | 2214.2 | 2214.2 | 2214.2 | 2214.2 | 2214.2 |
| 11° | 2120.3 | 2120.3 | 2120.3 | 2120.3 | 2120.3 |
| 12° | 2026.4 | 2026.4 | 2026.4 | 2026.4 | 2026.4 |
| 13° | 1924.3 | 1924.3 | 1924.3 | 1924.3 | 1924.3 |
| 14° | 1814.2 | 1814.2 | 1814.2 | 1814.2 | 1814.2 |
| 15° | 1704.0 | 1704.0 | 1704.0 | 1704.0 | 1704.0 |
| 16° | 1586.8 | 1586.8 | 1586.8 | 1586.8 | 1586.8 |
| 17° | 1469.6 | 1469.6 | 1469.6 | 1469.6 | 1469.6 |
| 18° | 1352.5 | 1352.5 | 1352.5 | 1352.5 | 1352.5 |
| 19° | 1235.3 | 1235.3 | 1235.3 | 1235.3 | 1235.3 |
| 20° | 1118.1 | 1118.1 | 1118.1 | 1118.1 | 1118.1 |
| 21° | 1015.8 | 1015.8 | 1015.8 | 1015.8 | 1015.8 |
| 22° | 913.6  | 913.6  | 913.6  | 913.6  | 913.6  |
| 23° | 819.9  | 819.9  | 819.9  | 819.9  | 819.9  |
| 24° | 734.7  | 734.7  | 734.7  | 734.7  | 734.7  |
| 25° | 649.6  | 649.6  | 649.6  | 649.6  | 649.6  |
| 26° | 581.1  | 581.1  | 581.1  | 581.1  | 581.1  |
| 27° | 512.6  | 512.6  | 512.6  | 512.6  | 512.6  |
| 28° | 449.9  | 449.9  | 449.9  | 449.9  | 449.9  |
| 29° | 392.8  | 392.8  | 392.8  | 392.8  | 392.8  |
| 30° | 335.8  | 335.8  | 335.8  | 335.8  | 335.8  |
| 31° | 289.2  | 289.2  | 289.2  | 289.2  | 289.2  |
| 32° | 242.7  | 242.7  | 242.7  | 242.7  | 242.7  |
| 33° | 202.3  | 202.3  | 202.3  | 202.3  | 202.3  |
| 34° | 168.1  | 168.1  | 168.1  | 168.1  | 168.1  |
| 35° | 133.9  | 133.9  | 133.9  | 133.9  | 133.9  |
| 36° | 110.6  | 110.6  | 110.6  | 110.6  | 110.6  |
| 37° | 87.3   | 87.3   | 87.3   | 87.3   | 87.3   |
| 38° | 68.9   | 68.9   | 68.9   | 68.9   | 68.9   |
| 39° | 55.3   | 55.3   | 55.3   | 55.3   | 55.3   |
| 40° | 41.7   | 41.7   | 41.7   | 41.7   | 41.7   |
| 41° | 34.7   | 34.7   | 34.7   | 34.7   | 34.7   |
| 42° | 27.7   | 27.7   | 27.7   | 27.7   | 27.7   |
| 43° | 22.6   | 22.6   | 22.6   | 22.6   | 22.6   |
| 44° | 19.5   | 19.5   | 19.5   | 19.5   | 19.5   |

TEST NUMBER: P1057181

CATALOG NUMBER: PRLX-CYL2-X-930-10L-FL-U-S-X-X-BLAK

**CANDELA DISTRIBUTION (continued):**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  |
|-----|------|-------|------|-------|------|
| 45° | 16.5 | 16.5  | 16.5 | 16.5  | 16.5 |
| 46° | 14.7 | 14.7  | 14.7 | 14.7  | 14.7 |
| 47° | 12.9 | 12.9  | 12.9 | 12.9  | 12.9 |
| 48° | 11.4 | 11.4  | 11.4 | 11.4  | 11.4 |
| 49° | 10.1 | 10.1  | 10.1 | 10.1  | 10.1 |
| 50° | 8.8  | 8.8   | 8.8  | 8.8   | 8.8  |
| 51° | 7.9  | 7.9   | 7.9  | 7.9   | 7.9  |
| 52° | 7.0  | 7.0   | 7.0  | 7.0   | 7.0  |
| 53° | 6.4  | 6.4   | 6.4  | 6.4   | 6.4  |
| 54° | 5.9  | 5.9   | 5.9  | 5.9   | 5.9  |
| 55° | 5.5  | 5.5   | 5.5  | 5.5   | 5.5  |
| 56° | 5.0  | 5.0   | 5.0  | 5.0   | 5.0  |
| 57° | 4.6  | 4.6   | 4.6  | 4.6   | 4.6  |
| 58° | 4.2  | 4.2   | 4.2  | 4.2   | 4.2  |
| 59° | 3.7  | 3.7   | 3.7  | 3.7   | 3.7  |
| 60° | 3.3  | 3.3   | 3.3  | 3.3   | 3.3  |
| 61° | 2.9  | 2.9   | 2.9  | 2.9   | 2.9  |
| 62° | 2.4  | 2.4   | 2.4  | 2.4   | 2.4  |
| 63° | 2.2  | 2.2   | 2.2  | 2.2   | 2.2  |
| 64° | 2.2  | 2.2   | 2.2  | 2.2   | 2.2  |
| 65° | 2.2  | 2.2   | 2.2  | 2.2   | 2.2  |
| 66° | 1.8  | 1.8   | 1.8  | 1.8   | 1.8  |
| 67° | 1.3  | 1.3   | 1.3  | 1.3   | 1.3  |
| 68° | 1.1  | 1.1   | 1.1  | 1.1   | 1.1  |
| 69° | 1.1  | 1.1   | 1.1  | 1.1   | 1.1  |
| 70° | 1.1  | 1.1   | 1.1  | 1.1   | 1.1  |
| 71° | 1.1  | 1.1   | 1.1  | 1.1   | 1.1  |
| 72° | 1.1  | 1.1   | 1.1  | 1.1   | 1.1  |
| 73° | 0.9  | 0.9   | 0.9  | 0.9   | 0.9  |
| 74° | 0.4  | 0.4   | 0.4  | 0.4   | 0.4  |
| 75° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 76° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 77° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 78° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 79° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 80° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 81° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 82° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 83° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 84° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 85° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 86° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 87° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 88° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |
| 89° | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  |



TEST NUMBER: P1057181  
CATALOG NUMBER: PRLX-CYL2-X-930-10L-FL-U-S-X-X-BLAK

CANDELA DISTRIBUTION (continued):

|     | 0°  | 22.5° | 45° | 67.5° | 90° |
|-----|-----|-------|-----|-------|-----|
| 90° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |



TEST NUMBER: P1057181

CATALOG NUMBER: PRLX-CYL2-X-930-10L-FL-U-S-X-BLAK

**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 | 5.84             | 6.74 | 6.20 | 7.05 | 7.37 | 5.84           | 6.74 | 6.20 | 7.05 | 7.37 |
|                 | 3H   | 6.03             | 6.82 | 6.41 | 7.16 | 7.53 | 6.03           | 6.82 | 6.41 | 7.16 | 7.53 |
|                 | 4H   | 5.96             | 6.69 | 6.37 | 7.04 | 7.43 | 5.96           | 6.69 | 6.37 | 7.04 | 7.43 |
|                 | 6H   | 5.84             | 6.51 | 6.26 | 6.88 | 7.28 | 5.84           | 6.51 | 6.26 | 6.88 | 7.28 |
|                 | 8H   | 5.78             | 6.40 | 6.22 | 6.80 | 7.21 | 5.78           | 6.40 | 6.22 | 6.80 | 7.21 |
|                 | 12H  | 5.71             | 6.31 | 6.15 | 6.70 | 7.13 | 5.71           | 6.31 | 6.15 | 6.70 | 7.13 |
| 4H              | 2H   | 5.91             | 6.64 | 6.32 | 7.00 | 7.39 | 5.91           | 6.64 | 6.32 | 7.00 | 7.39 |
|                 | 3H   | 6.26             | 6.85 | 6.67 | 7.26 | 7.67 | 6.26           | 6.85 | 6.67 | 7.26 | 7.67 |
|                 | 4H   | 6.16             | 6.69 | 6.60 | 7.11 | 7.56 | 6.16           | 6.69 | 6.60 | 7.11 | 7.56 |
|                 | 6H   | 6.04             | 6.49 | 6.51 | 6.94 | 7.42 | 6.04           | 6.49 | 6.51 | 6.94 | 7.42 |
|                 | 8H   | 5.96             | 6.38 | 6.44 | 6.83 | 7.31 | 5.96           | 6.38 | 6.44 | 6.83 | 7.31 |
|                 | 12H  | 5.89             | 6.25 | 6.39 | 6.74 | 7.22 | 5.89           | 6.25 | 6.39 | 6.74 | 7.22 |
| 8H              | 4H   | 6.01             | 6.43 | 6.48 | 6.88 | 7.35 | 6.01           | 6.43 | 6.48 | 6.88 | 7.35 |
|                 | 6H   | 5.88             | 6.20 | 6.39 | 6.71 | 7.20 | 5.88           | 6.20 | 6.39 | 6.71 | 7.20 |
|                 | 8H   | 5.80             | 6.09 | 6.34 | 6.61 | 7.11 | 5.80           | 6.09 | 6.34 | 6.61 | 7.11 |
|                 | 12H  | 5.74             | 5.99 | 6.27 | 6.49 | 7.07 | 5.74           | 5.99 | 6.27 | 6.49 | 7.07 |
| 12H             | 4H   | 5.94             | 6.30 | 6.43 | 6.79 | 7.26 | 5.94           | 6.30 | 6.43 | 6.79 | 7.26 |
|                 | 6H   | 5.80             | 6.09 | 6.34 | 6.61 | 7.11 | 5.80           | 6.09 | 6.34 | 6.61 | 7.11 |
|                 | 8H   | 5.74             | 5.99 | 6.27 | 6.49 | 7.07 | 5.74           | 5.99 | 6.27 | 6.49 | 7.07 |