

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



Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P1438944

Luminaire Tested: CB2-B-085U-120D-940-1D-UNV-STD-W-8

Issue Date: 3/31/2026

**Test Information**

Test Method: LM-79-2024  
Report Number: P1438944  
REPORT IS SCALED FROM IESNA LM-79-24 TEST DATA (G2-2405-119-1, G2-2312-242-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/31/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: CB2-B-085U-120D-940-1D-UNV-STD-W-8  
Description: CORELITE BASIC SLOT LED LUMINAIRE, BATWING UPLIGHT  
2-INCH APERTURE  
DOWNLIGHT 1200 LUMENS PER FOOT  
UPLIGHT 850 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: -

**Summary**

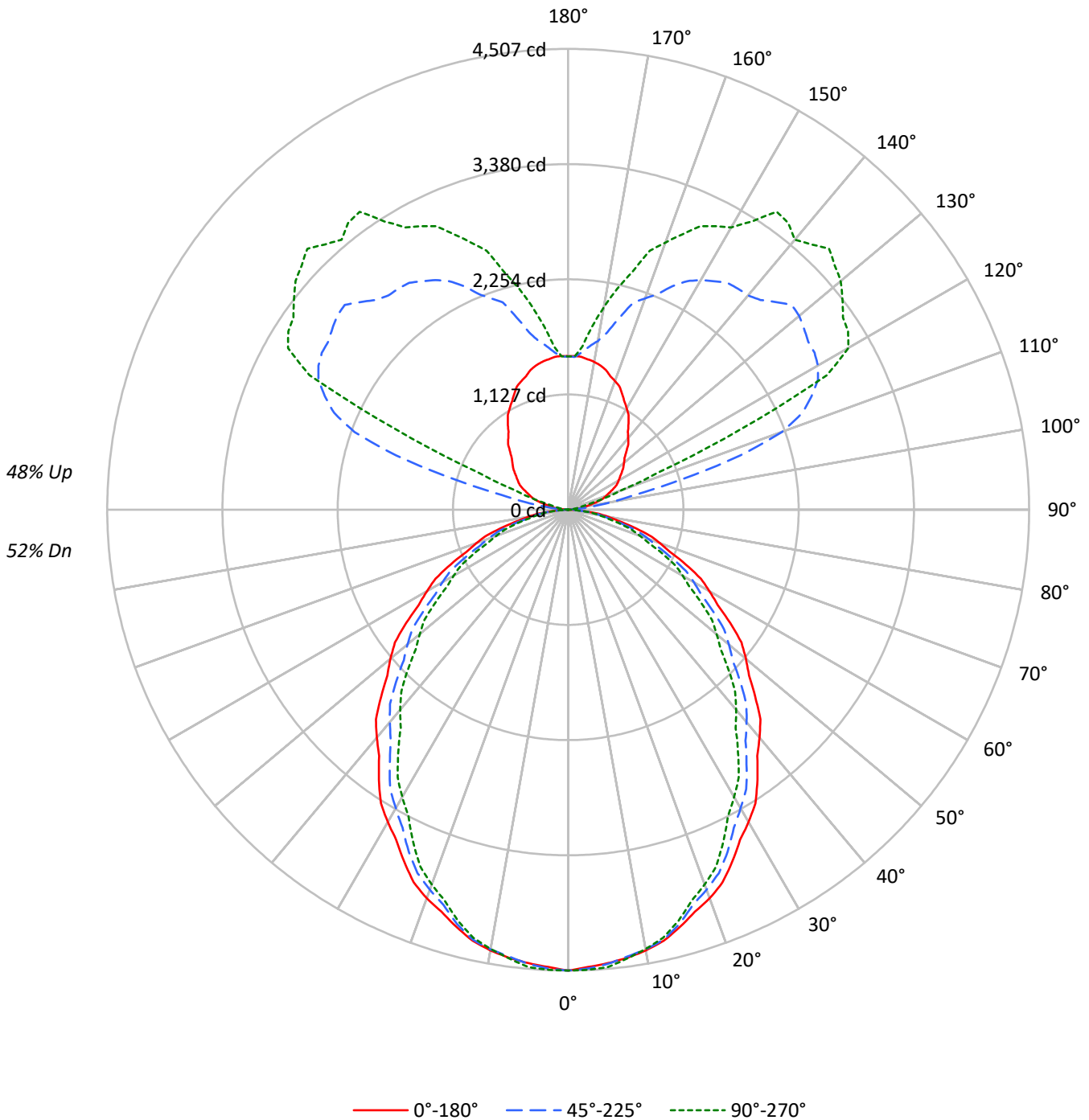
Lumens per Lamp: N/A  
Luminaire Lumens: 20367.8 lumens  
Efficiency: N/A  
Efficacy: 139.5 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.15' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 146  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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: P1438944

CATALOG NUMBER: CB2-B-085U-120D-940-1D-UNV-STD-W-8

### Luminous Intensity Polar Plot





TEST NUMBER: P1438944

CATALOG NUMBER: CB2-B-085U-120D-940-1D-UNV-STD-W-8

**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 | 0  |
| RCR |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 108 | 108 | 108 | 108 | 99 | 99 | 99 | 99 | 84 | 84 | 84 | 70 | 70 | 70 | 58 | 58 | 58 | 52 |
| 1   | 98  | 94  | 90  | 87  | 91 | 87 | 84 | 81 | 74 | 72 | 70 | 62 | 61 | 59 | 51 | 50 | 49 | 44 |
| 2   | 90  | 82  | 76  | 71  | 83 | 76 | 71 | 67 | 65 | 61 | 58 | 55 | 52 | 50 | 45 | 43 | 42 | 37 |
| 3   | 82  | 73  | 65  | 60  | 75 | 67 | 61 | 56 | 58 | 53 | 49 | 49 | 45 | 42 | 40 | 38 | 36 | 32 |
| 4   | 75  | 64  | 57  | 51  | 69 | 60 | 53 | 48 | 51 | 46 | 42 | 43 | 39 | 36 | 36 | 33 | 31 | 27 |
| 5   | 69  | 57  | 49  | 43  | 64 | 54 | 46 | 41 | 46 | 40 | 36 | 39 | 35 | 32 | 33 | 30 | 27 | 24 |
| 6   | 64  | 52  | 44  | 38  | 59 | 48 | 41 | 36 | 42 | 36 | 32 | 35 | 31 | 28 | 30 | 26 | 24 | 21 |
| 7   | 59  | 47  | 39  | 33  | 54 | 44 | 37 | 31 | 38 | 32 | 28 | 32 | 28 | 25 | 27 | 24 | 21 | 19 |
| 8   | 55  | 42  | 35  | 29  | 51 | 40 | 33 | 28 | 35 | 29 | 25 | 30 | 25 | 22 | 25 | 22 | 19 | 17 |
| 9   | 51  | 39  | 31  | 26  | 47 | 36 | 30 | 25 | 32 | 26 | 22 | 27 | 23 | 20 | 23 | 20 | 17 | 15 |
| 10  | 48  | 36  | 28  | 24  | 44 | 33 | 27 | 23 | 29 | 24 | 20 | 25 | 21 | 18 | 21 | 18 | 16 | 14 |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 39253 | 39253 | 39253 |
| 5°  | 38920 | 38980 | 39251 |
| 10° | 38699 | 38607 | 38577 |
| 15° | 38086 | 37837 | 37526 |
| 20° | 37485 | 36654 | 36143 |
| 25° | 36479 | 35451 | 34456 |
| 30° | 35469 | 33907 | 32623 |
| 35° | 34306 | 32325 | 30784 |
| 40° | 33075 | 30839 | 29034 |
| 45° | 31837 | 29286 | 27330 |
| 50° | 30721 | 27774 | 25670 |
| 55° | 29344 | 26200 | 24105 |
| 60° | 27772 | 24706 | 22542 |
| 65° | 26100 | 23042 | 20979 |
| 70° | 24253 | 21177 | 18982 |
| 75° | 22063 | 19162 | 17187 |
| 80° | 19729 | 16791 | 15577 |
| 85° | 15178 | 13789 | 11381 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 31837 cd/sqm



TEST NUMBER: P1438944

CATALOG NUMBER: CB2-B-085U-120D-940-1D-UNV-STD-W-8

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 423.9   | 2.1       |
| 10°-20°   | 1181.5  | 5.8       |
| 20°-30°   | 1698.9  | 8.3       |
| 30°-40°   | 1909.5  | 9.4       |
| 40°-50°   | 1844.6  | 9.1       |
| 50°-60°   | 1558.5  | 7.7       |
| 60°-70°   | 1119.4  | 5.5       |
| 70°-80°   | 611.8   | 3.0       |
| 80°-90°   | 162.5   | 0.8       |
| 90°-100°  | 112.4   | 0.6       |
| 100°-110° | 696.1   | 3.4       |
| 110°-120° | 1755.4  | 8.6       |
| 120°-130° | 2110.2  | 10.4      |
| 130°-140° | 1913.2  | 9.4       |
| 140°-150° | 1525.6  | 7.5       |
| 150°-160° | 1040.7  | 5.1       |
| 160°-170° | 550.4   | 2.7       |
| 170°-180° | 153.2   | 0.8       |
| 0°-30°    | 3304.2  | 16.2      |
| 0°-40°    | 5213.7  | 25.6      |
| 0°-60°    | 8616.8  | 42.3      |
| 0°-90°    | 10510.6 | 51.6      |
| 90°-120°  | 2563.9  | 12.6      |
| 90°-150°  | 8113.0  | 39.8      |
| 90°-180°  | 9857.0  | 48.4      |
| 0°-180°   | 20367.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 4507 | 4507  | 4507 | 4507  | 4507 |      |
| 5°   | 4452 | 4513  | 4459 | 4460  | 4490 | 423  |
| 15°  | 4224 | 4261  | 4197 | 4155  | 4162 | 1191 |
| 25°  | 3796 | 3800  | 3689 | 3606  | 3586 | 1748 |
| 35°  | 3227 | 3190  | 3040 | 2923  | 2896 | 2016 |
| 45°  | 2585 | 2531  | 2378 | 2253  | 2219 | 1997 |
| 55°  | 1933 | 1862  | 1726 | 1618  | 1588 | 1728 |
| 65°  | 1267 | 1219  | 1118 | 1038  | 1018 | 1256 |
| 75°  | 656  | 615   | 570  | 524   | 511  | 701  |
| 85°  | 152  | 142   | 138  | 121   | 114  | 181  |
| 90°  | 0    | 0     | 0    | 0     | 0    | 8    |
| 95°  | 58   | 147   | 45   | 32    | 32   | 74   |
| 105° | 284  | 797   | 1151 | 289   | 194  | 299  |
| 115° | 491  | 1086  | 2625 | 2444  | 1862 | 482  |
| 125° | 640  | 1317  | 2864 | 3259  | 3278 | 573  |
| 135° | 802  | 1459  | 2871 | 3362  | 3608 | 623  |
| 145° | 1028 | 1534  | 2709 | 3266  | 3556 | 643  |
| 155° | 1248 | 1564  | 2412 | 2907  | 3058 | 574  |
| 165° | 1416 | 1549  | 1946 | 2292  | 2399 | 397  |
| 175° | 1500 | 1519  | 1545 | 1572  | 1604 | 142  |
| 180° | 1500 | 1500  | 1500 | 1500  | 1500 |      |

TEST NUMBER: P1438944

CATALOG NUMBER: CB2-B-085U-120D-940-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 0°     | 4507.3 | 4507.3 | 4507.3 | 4507.3 | 4507.3 |
| 2.5°   | 4476.9 | 4530.9 | 4490.7 | 4496.4 | 4504.5 |
| 5°     | 4452.1 | 4512.8 | 4459.0 | 4459.7 | 4490.0 |
| 7.5°   | 4420.3 | 4477.7 | 4410.0 | 4397.5 | 4425.9 |
| 10°    | 4376.2 | 4433.5 | 4365.8 | 4342.1 | 4362.4 |
| 12.5°  | 4318.2 | 4372.8 | 4307.8 | 4270.3 | 4287.8 |
| 15°    | 4224.3 | 4261.4 | 4196.7 | 4155.4 | 4162.2 |
| 17.5°  | 4122.1 | 4145.1 | 4051.7 | 4017.1 | 4010.3 |
| 20°    | 4044.8 | 4065.1 | 3955.1 | 3906.6 | 3899.9 |
| 22.5°  | 3945.4 | 3963.0 | 3847.4 | 3787.9 | 3778.4 |
| 25°    | 3796.4 | 3799.7 | 3689.4 | 3606.1 | 3585.8 |
| 27.5°  | 3640.4 | 3629.6 | 3507.1 | 3408.5 | 3382.2 |
| 30°    | 3527.2 | 3513.7 | 3371.8 | 3267.8 | 3244.2 |
| 32.5°  | 3405.7 | 3381.4 | 3239.3 | 3127.0 | 3103.3 |
| 35°    | 3226.9 | 3189.8 | 3040.5 | 2922.6 | 2895.6 |
| 37.5°  | 3036.4 | 2994.5 | 2848.0 | 2719.6 | 2689.2 |
| 40°    | 2909.4 | 2862.1 | 2712.7 | 2584.3 | 2553.9 |
| 42.5°  | 2782.4 | 2729.7 | 2577.4 | 2448.9 | 2415.9 |
| 45°    | 2585.0 | 2531.0 | 2377.9 | 2252.9 | 2219.1 |
| 47.5°  | 2397.2 | 2328.4 | 2179.8 | 2055.5 | 2021.7 |
| 50°    | 2267.5 | 2193.2 | 2050.0 | 1928.5 | 1894.7 |
| 52.5°  | 2134.9 | 2058.0 | 1920.3 | 1804.2 | 1770.5 |
| 55°    | 1932.7 | 1861.8 | 1725.6 | 1617.9 | 1587.6 |
| 57.5°  | 1732.5 | 1664.4 | 1539.9 | 1437.1 | 1407.4 |
| 60°    | 1594.5 | 1537.1 | 1418.5 | 1321.2 | 1294.2 |
| 62.5°  | 1461.9 | 1410.0 | 1297.0 | 1208.0 | 1181.0 |
| 65°    | 1266.6 | 1219.4 | 1118.2 | 1038.4 | 1018.1 |
| 67.5°  | 1076.8 | 1029.5 | 947.7  | 876.1  | 853.1  |
| 70°    | 952.5  | 905.3  | 831.7  | 765.7  | 745.5  |
| 72.5°  | 833.8  | 783.9  | 724.1  | 663.7  | 648.8  |
| 75°    | 655.7  | 615.2  | 569.5  | 524.3  | 510.8  |
| 77.5°  | 498.4  | 459.2  | 425.9  | 394.1  | 390.7  |
| 80°    | 393.4  | 359.7  | 334.8  | 314.0  | 310.6  |
| 82.5°  | 294.0  | 268.4  | 251.9  | 236.7  | 236.1  |
| 85°    | 151.9  | 141.7  | 138.0  | 120.6  | 113.9  |
| 87.5°  | 44.2   | 44.2   | 38.7   | 33.1   | 33.1   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 15.5   | 25.6   | 10.3   | 10.3   | 10.3   |
| 95°    | 58.2   | 146.7  | 45.3   | 32.3   | 32.3   |
| 97.5°  | 121.6  | 351.7  | 244.4  | 65.8   | 56.9   |
| 100°   | 168.1  | 509.5  | 420.3  | 96.6   | 77.6   |
| 102.5° | 214.7  | 647.1  | 663.4  | 153.1  | 119.0  |
| 105°   | 284.5  | 796.6  | 1151.0 | 288.8  | 194.0  |
| 107.5° | 353.1  | 894.3  | 1764.0 | 596.0  | 359.5  |
| 110°   | 394.4  | 950.8  | 2224.4 | 929.1  | 556.1  |

TEST NUMBER: P1438944

CATALOG NUMBER: CB2-B-085U-120D-940-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|--------|--------|--------|--------|--------|--------|
| 112.5° | 435.8  | 1007.4 | 2477.9 | 1489.4 | 959.6  |
| 115°   | 491.4  | 1085.8 | 2625.3 | 2443.9 | 1862.3 |
| 117.5° | 538.0  | 1157.6 | 2752.0 | 3022.3 | 2851.6 |
| 120°   | 569.0  | 1213.9 | 2819.3 | 3105.1 | 3162.0 |
| 122.5° | 600.1  | 1255.1 | 2855.5 | 3137.3 | 3244.8 |
| 125°   | 640.2  | 1316.7 | 2864.5 | 3259.4 | 3278.4 |
| 127.5° | 680.2  | 1363.1 | 2907.2 | 3371.7 | 3380.5 |
| 130°   | 711.3  | 1394.1 | 2948.6 | 3409.3 | 3478.8 |
| 132.5° | 747.5  | 1420.2 | 2964.1 | 3430.8 | 3535.7 |
| 135°   | 801.8  | 1459.4 | 2871.0 | 3361.6 | 3608.2 |
| 137.5° | 870.4  | 1487.4 | 2781.8 | 3359.6 | 3518.9 |
| 140°   | 911.7  | 1493.4 | 2735.2 | 3433.9 | 3446.5 |
| 142.5° | 958.3  | 1509.6 | 2724.9 | 3425.7 | 3534.4 |
| 145°   | 1028.1 | 1533.9 | 2709.4 | 3265.6 | 3556.4 |
| 147.5° | 1098.0 | 1549.4 | 2649.9 | 3088.9 | 3343.0 |
| 150°   | 1144.5 | 1555.5 | 2593.0 | 3029.8 | 3187.9 |
| 152.5° | 1191.1 | 1561.6 | 2520.5 | 2993.0 | 3125.8 |
| 155°   | 1248.0 | 1564.1 | 2411.9 | 2906.8 | 3058.5 |
| 157.5° | 1307.5 | 1556.6 | 2281.3 | 2749.3 | 2915.0 |
| 160°   | 1338.5 | 1547.2 | 2198.5 | 2635.1 | 2780.5 |
| 162.5° | 1369.5 | 1542.8 | 2126.1 | 2485.6 | 2656.3 |
| 165°   | 1416.1 | 1548.9 | 1946.3 | 2291.5 | 2399.0 |
| 167.5° | 1447.1 | 1543.2 | 1778.2 | 2061.0 | 2212.7 |
| 170°   | 1467.8 | 1543.7 | 1674.8 | 1884.5 | 2011.0 |
| 172.5° | 1483.4 | 1518.8 | 1612.7 | 1723.3 | 1809.3 |
| 175°   | 1500.2 | 1519.1 | 1545.4 | 1572.0 | 1603.6 |
| 177.5° | 1505.3 | 1515.5 | 1495.0 | 1490.0 | 1500.2 |
| 180°   | 1500.2 | 1500.2 | 1500.2 | 1500.2 | 1500.2 |



TEST NUMBER: P1438944  
 CATALOG NUMBER: CB2-B-085U-120D-940-1D-UNV-STD-W-8

**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 | 19.90            | 20.76 | 20.85 | 21.72 | 22.97 | 18.80          | 19.66 | 19.75 | 20.62 | 21.87 |
|                 | 3H   | 21.54            | 22.32 | 22.50 | 23.29 | 24.56 | 20.33          | 21.10 | 21.28 | 22.07 | 23.34 |
|                 | 4H   | 22.17            | 22.91 | 23.14 | 23.88 | 25.16 | 20.90          | 21.63 | 21.87 | 22.61 | 23.89 |
|                 | 6H   | 22.58            | 23.25 | 23.56 | 24.23 | 25.52 | 21.27          | 21.95 | 22.26 | 22.93 | 24.22 |
|                 | 8H   | 22.72            | 23.37 | 23.71 | 24.36 | 25.65 | 21.41          | 22.06 | 22.40 | 23.05 | 24.34 |
|                 | 12H  | 22.80            | 23.41 | 23.79 | 24.40 | 25.71 | 21.48          | 22.09 | 22.47 | 23.08 | 24.39 |
| 4H              | 2H   | 20.31            | 21.04 | 21.29 | 22.02 | 23.30 | 19.43          | 20.17 | 20.41 | 21.14 | 22.42 |
|                 | 3H   | 22.18            | 22.79 | 23.17 | 23.79 | 25.09 | 21.17          | 21.78 | 22.16 | 22.78 | 24.08 |
|                 | 4H   | 22.92            | 23.48 | 23.92 | 24.48 | 25.80 | 21.84          | 22.40 | 22.84 | 23.40 | 24.72 |
|                 | 6H   | 23.44            | 23.92 | 24.45 | 24.94 | 26.26 | 22.32          | 22.80 | 23.33 | 23.82 | 25.14 |
|                 | 8H   | 23.65            | 24.10 | 24.66 | 25.11 | 26.44 | 22.51          | 22.96 | 23.52 | 23.97 | 25.30 |
|                 | 12H  | 23.76            | 24.16 | 24.78 | 25.19 | 26.53 | 22.60          | 23.00 | 23.62 | 24.03 | 25.37 |
| 8H              | 4H   | 23.08            | 23.53 | 24.09 | 24.54 | 25.87 | 22.12          | 22.57 | 23.13 | 23.58 | 24.91 |
|                 | 6H   | 23.72            | 24.09 | 24.76 | 25.15 | 26.48 | 22.72          | 23.09 | 23.75 | 24.15 | 25.48 |
|                 | 8H   | 24.01            | 24.34 | 25.05 | 25.38 | 26.73 | 23.00          | 23.32 | 24.04 | 24.36 | 25.71 |
|                 | 12H  | 24.19            | 24.48 | 25.23 | 25.51 | 26.90 | 23.15          | 23.43 | 24.19 | 24.47 | 25.86 |
| 12H             | 4H   | 23.06            | 23.47 | 24.09 | 24.49 | 25.83 | 22.12          | 22.53 | 23.15 | 23.55 | 24.89 |
|                 | 6H   | 23.75            | 24.08 | 24.79 | 25.12 | 26.47 | 22.78          | 23.11 | 23.83 | 24.15 | 25.50 |
|                 | 8H   | 24.07            | 24.36 | 25.11 | 25.39 | 26.78 | 23.09          | 23.38 | 24.14 | 24.41 | 25.80 |