

### Specifier's Reference

Project

Type

Model No.

Comments

### application

- Highly efficient, highly flexible recessed luminaire with an upscale architectural appearance.
- Excellent visual comfort, ideal for modern high tech offices.
- Other applications include schools and retail environments.
- Controlled high-angle lighting eliminates "cave effect" without creating glare, for uniform lighting and high visual comfort.
- Lumen packages range from 3,800 to 6,600 initial delivered lumens, providing flexibility to optimize light levels for a specific application.
- High CRI source provides excellent color rendering with a CRI of 80.
- LEDs are an excellent source for use with controls since frequent switching does not affect the life of the light source.
- Specific models are available for Grid, Flange, Z-spline/Modular or Screw Slot ceiling systems.
- Designed for air supply/return through side slots in black reveal. See sheet 518-AH for air flow data.

### construction/finish

- One piece die-formed embossed steel housing provides added rigidity, resists damage during shipment/handling.
- Black reveal around enclosure provides floating appearance and disguises air slots. White reveal is also optional.
- T-bar grid clips are built into luminaire ends for quick and easy installation, no extra parts required.
- K.O. in luminaire ends for thru wiring or conduit entry in shallow plenums.
- Suitable for end-to-end mounting.

### electrical

- Driver and LED boards are easily accessible from below without tools. LED boards are individually replaceable, if required, via plug-in connectors.
- 0-10V dimming is available.
- Available emergency option provides 1600 delivered lumens in emergency mode (requires ballast enclosure on top of luminaire).
- Five year standard luminaire warranty including LED boards and driver. Emergency driver and batteries have a three year warranty in models so equipped.
- High efficiency LEDs have a minimum 50,000 hour rated life ( $L_{70}$ ).
- ETL listed to UL standards, suitable for damp locations.

### enclosures

- Captive one-piece enclosure hinges down as an assembly for easy access to internals if needed.
- Guide-post spring loaded latches allow easy opening and closing of the enclosure.
- Rounded acrylic diffusers are available with or without additional overlay to allow emphasis on efficiency or visual comfort depending on specific application requirements.

## Green Choice: 2ATNGA52L840-4-D-UNV

| 2            | AT            | N                   | A                                                                |                     | 4                                                                                                                        |              |               |                                       |                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------|---------------|---------------------|------------------------------------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------|--------------|---------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <u>Width</u> |               | <u>Distribution</u> |                                                                  | <u>Air Function</u> |                                                                                                                          | <u>Color</u> |               | <u>Diffusers</u>                      |                                                                                                                                                                                                                                                                                                                                                                                                             |
| 2 - 2'       |               | N - Standard        | A - Air supply/return                                            |                     | 835 - 80CRI, 3500K<br>840 - 80CRI, 4000K                                                                                 |              |               | D - Diffuse<br>DO - Diffuse w/overlay |                                                                                                                                                                                                                                                                                                                                                                                                             |
|              | <u>Family</u> |                     | <u>Ceiling Type</u>                                              |                     | <u>Lumens</u>                                                                                                            |              | <u>Length</u> |                                       | <u>Voltage</u>                                                                                                                                                                                                                                                                                                                                                                                              |
|              | AT - Attune   |                     | G - Grid<br>F - Flange<br>T - Screw Slot<br>Z - Z Spline/Modular |                     | 38L - 3800 delivered lumens<br>44L - 4400 delivered lumens<br>52L - 5200 delivered lumens<br>66L - 6600 delivered lumens |              | 4 - 4'        |                                       | 347<br>UNV - Universal Voltage,<br>120-277 volt                                                                                                                                                                                                                                                                                                                                                             |
|              |               |                     |                                                                  |                     |                                                                                                                          |              |               |                                       | <u>Options</u>                                                                                                                                                                                                                                                                                                                                                                                              |
|              |               |                     |                                                                  |                     |                                                                                                                          |              |               |                                       | APC - Air pattern control blades<br>ASC - Snap out air slot covers<br>CM - Canadian Market<br>CC - Custom Color<br>F1 - 3/8" flex, 3 wire 18 gauge<br>F2 - 3/8" flex, 4 wire 18 gauge<br>GLR1 - Fusing, Fast Blow<br>PAF - Housing painted after fabrication<br>WR - White reveal<br>DIM - 0-10V dimming driver<br>EMLED - Integral emergency battery pack (requires ballast enclosure on top of luminaire) |

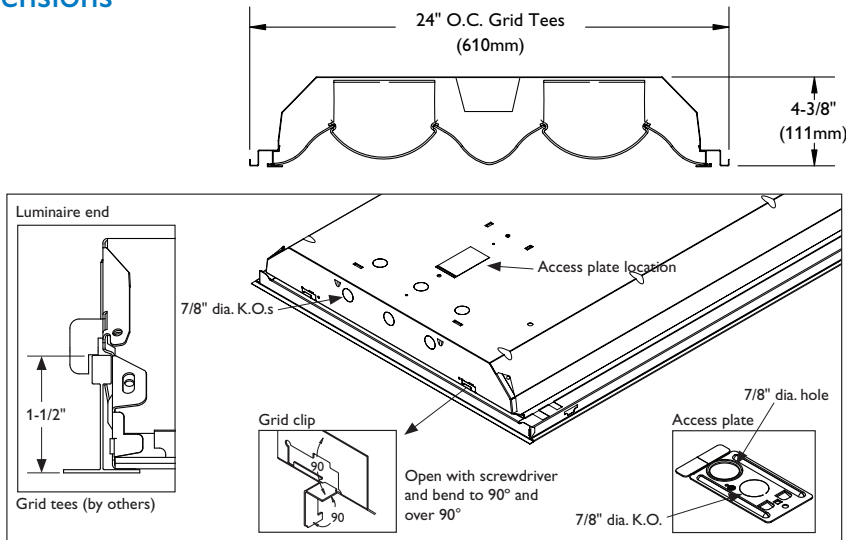
### Accessories

- FKDP24 - Flange conversion kit 2'x4'
- FMA24 - 2'x4' "F" mounting frame for NEMA "F" mounting

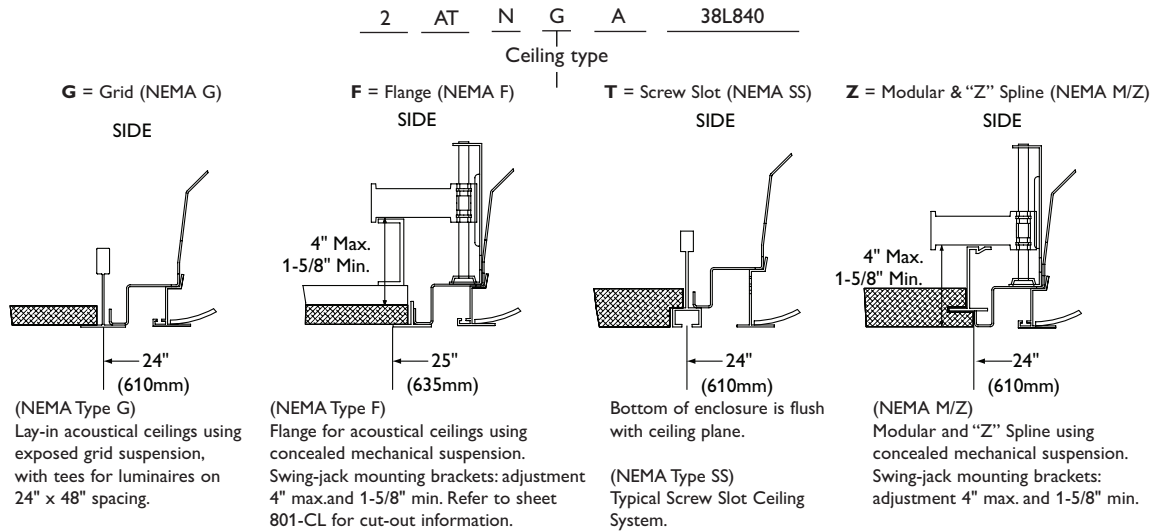


**PHILIPS**  
**Day-Brite**

**PHILIPS**  
**CFI**



## ceiling configuration



## photometry

### 2x4 Attune Air LED, 3800 nominal delivered lumens, diffuse

### LER - 84

|                                                                                                                                                            |                      |             |      |      |       |                             |        |             |                                                      |      |      |       |     |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------|------|------|-------|-----------------------------|--------|-------------|------------------------------------------------------|------|------|-------|-----|-----|
| Catalog No.                                                                                                                                                | 2ATNGA38L840-4-D-UNV | Candlepower |      |      |       | Light Distribution          |        |             | Average Luminance                                    |      |      |       |     |     |
| Test No.                                                                                                                                                   | 30179                | Angle       | End  | 45   | Cross | Degrees                     | Lumens | % Luminaire | Angle                                                | End  | 45°  | Cross |     |     |
| S/MH                                                                                                                                                       | 1.3                  | 0           | 1444 | 1444 | 1444  | 0-30                        | 1128   | 29.7        | 45                                                   | 1678 | 1796 | 1838  |     |     |
| Lamp Type                                                                                                                                                  | LED                  | 5           | 1449 | 1439 | 1423  | 0-40                        | 1846   | 48.6        | 55                                                   | 1485 | 1633 | 1602  |     |     |
| Lumens/Lamp                                                                                                                                                | 3795                 | 10          | 1430 | 1420 | 1408  | 0-60                        | 3171   | 83.5        | 65                                                   | 1235 | 1372 | 1105  |     |     |
| Input Watts                                                                                                                                                | 45                   | 15          | 1394 | 1393 | 1381  | 0-90                        | 3796   | 100.0       | 75                                                   | 977  | 931  | 743   |     |     |
|                                                                                                                                                            |                      | 20          | 1341 | 1359 | 1346  |                             |        |             | 85                                                   | 710  | 448  | 278   |     |     |
|                                                                                                                                                            |                      | 25          | 1277 | 1306 | 1297  | Coefficients of Utilization |        |             | EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20) |      |      |       |     |     |
|                                                                                                                                                            |                      | 30          | 1197 | 1236 | 1246  | pcc                         | 80     |             |                                                      | 70   |      |       | 50  |     |
|                                                                                                                                                            |                      | 35          | 1104 | 1155 | 1179  | pw                          | 70     | 50          | 30                                                   | 70   | 50   | 30    | 50  | 30  |
|                                                                                                                                                            |                      | 40          | 998  | 1059 | 1081  | RCR                         |        |             |                                                      |      |      |       |     |     |
|                                                                                                                                                            |                      | 45          | 882  | 944  | 966   | 0                           | 118    | 118         | 118                                                  | 115  | 115  | 115   | 111 | 111 |
|                                                                                                                                                            |                      | 50          | 759  | 826  | 835   | 1                           | 110    | 105         | 101                                                  | 107  | 103  | 98    | 98  | 95  |
|                                                                                                                                                            |                      | 55          | 633  | 696  | 683   | 2                           | 100    | 92          | 85                                                   | 97   | 90   | 84    | 86  | 81  |
|                                                                                                                                                            |                      | 60          | 505  | 566  | 503   | 3                           | 92     | 81          | 73                                                   | 89   | 80   | 72    | 77  | 70  |
|                                                                                                                                                            |                      | 65          | 388  | 431  | 347   | 4                           | 83     | 72          | 64                                                   | 81   | 70   | 63    | 68  | 61  |
|                                                                                                                                                            |                      | 70          | 284  | 289  | 234   | 5                           | 77     | 65          | 56                                                   | 75   | 64   | 56    | 61  | 55  |
|                                                                                                                                                            |                      | 75          | 188  | 179  | 143   | 6                           | 71     | 58          | 50                                                   | 69   | 57   | 48    | 56  | 48  |
|                                                                                                                                                            |                      | 80          | 109  | 96   | 72    | 7                           | 66     | 53          | 45                                                   | 65   | 52   | 44    | 51  | 44  |
|                                                                                                                                                            |                      | 85          | 46   | 29   | 18    | 8                           | 61     | 48          | 40                                                   | 59   | 47   | 40    | 46  | 39  |
|                                                                                                                                                            |                      |             |      |      |       | 9                           | 57     | 45          | 36                                                   | 56   | 44   | 35    | 42  | 35  |
|                                                                                                                                                            |                      |             |      |      |       | 10                          | 54     | 40          | 33                                                   | 53   | 40   | 33    | 40  | 33  |
| Comparative yearly lighting energy cost per 1000 lumens – <b>\$2.86</b> based on 3000 hrs. and \$.08 pwr KWH.                                              |                      |             |      |      |       |                             |        |             |                                                      |      |      |       |     |     |
| The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology. |                      |             |      |      |       |                             |        |             |                                                      |      |      |       |     |     |
| Photometric values based on test performed in compliance with LM-79.                                                                                       |                      |             |      |      |       |                             |        |             |                                                      |      |      |       |     |     |

## 2x4 Attune Air LED, 4400 nominal delivered lumens, diffuse

## LER – 81

| Catalog No.                                                                                                                                                | 2ATNGA44L840-4-D-UNV | Candlepower |      |      |       | Light Distribution                                   |        |             | Average Luminance |      |      |       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------|------|------|-------|------------------------------------------------------|--------|-------------|-------------------|------|------|-------|
|                                                                                                                                                            |                      | Angle       | End  | 45   | Cross | Degrees                                              | Lumens | % Luminaire | Angle             | End  | 45°  | Cross |
| Test No.                                                                                                                                                   | 30177                | 0           | 1668 | 1668 | 1668  | 0-30                                                 | 1304   | 29.8        | 45                | 1939 | 2080 | 2124  |
| S/MH                                                                                                                                                       | 1.3                  | 5           | 1670 | 1662 | 1648  | 0-40                                                 | 2132   | 48.7        | 55                | 1724 | 1888 | 1841  |
| Lamp Type                                                                                                                                                  | LED                  | 10          | 1652 | 1644 | 1630  | 0-60                                                 | 3662   | 83.6        | 65                | 1429 | 1585 | 1277  |
| Lumens/Lamp                                                                                                                                                | 4381                 | 15          | 1610 | 1614 | 1600  | 0-90                                                 | 4382   | 100.0       | 75                | 1144 | 1076 | 853   |
| Input Watts                                                                                                                                                | 54                   | 20          | 1552 | 1571 | 1558  |                                                      |        |             | 85                | 834  | 509  | 309   |
|                                                                                                                                                            |                      | 25          | 1477 | 1507 | 1501  | Coefficients of Utilization                          |        |             |                   |      |      |       |
| Comparative yearly lighting energy cost per 1000 lumens – \$2.96 based on 3000 hrs. and \$.08 pwr KWH.                                                     |                      | 30          | 1385 | 1427 | 1442  | EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20) |        |             |                   |      |      |       |
|                                                                                                                                                            |                      | 35          | 1279 | 1335 | 1349  | pcc                                                  | 80     | 70          | 50                |      |      |       |
| The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology. |                      | 40          | 1153 | 1222 | 1250  | pw                                                   | 70     | 50          | 30                | 70   | 50   | 30    |
|                                                                                                                                                            |                      | 45          | 1019 | 1093 | 1116  | RCR                                                  |        |             |                   |      |      |       |
| Photometric values based on test performed in compliance with LM-79.                                                                                       |                      | 50          | 877  | 951  | 964   | 0                                                    | 118    | 118         | 118               | 115  | 115  | 115   |
|                                                                                                                                                            |                      | 55          | 735  | 805  | 785   | 1                                                    | 110    | 105         | 101               | 107  | 103  | 98    |
|                                                                                                                                                            |                      | 60          | 588  | 655  | 580   | 2                                                    | 100    | 92          | 85                | 97   | 91   | 84    |
|                                                                                                                                                            |                      | 65          | 449  | 498  | 401   | 3                                                    | 92     | 81          | 73                | 89   | 80   | 72    |
|                                                                                                                                                            |                      | 70          | 329  | 334  | 269   | 4                                                    | 83     | 72          | 64                | 81   | 70   | 63    |
|                                                                                                                                                            |                      | 75          | 220  | 207  | 164   | 5                                                    | 77     | 65          | 56                | 75   | 64   | 56    |
|                                                                                                                                                            |                      | 80          | 126  | 111  | 83    | 6                                                    | 71     | 58          | 50                | 69   | 57   | 48    |
|                                                                                                                                                            |                      | 85          | 54   | 33   | 20    | 7                                                    | 66     | 53          | 45                | 65   | 52   | 44    |
|                                                                                                                                                            |                      |             |      |      |       | 8                                                    | 61     | 48          | 40                | 59   | 47   | 40    |
|                                                                                                                                                            |                      |             |      |      |       | 9                                                    | 57     | 45          | 36                | 56   | 44   | 35    |
|                                                                                                                                                            |                      |             |      |      |       | 10                                                   | 54     | 40          | 33                | 53   | 40   | 33    |

## 2x4 Attune Air LED, 5200 nominal delivered lumens, diffuse

## LER – 87

| Catalog No.                                                                                                                                                | 2ATNGA52L840-4-D-UNV | Candlepower |      |      |       | Light Distribution                                   |        |             | Average Luminance |      |      |       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------|------|------|-------|------------------------------------------------------|--------|-------------|-------------------|------|------|-------|
|                                                                                                                                                            |                      | Angle       | End  | 45   | Cross | Degrees                                              | Lumens | % Luminaire | Angle             | End  | 45°  | Cross |
| Test No.                                                                                                                                                   | 30158                | 0           | 2038 | 2038 | 2038  | 0-30                                                 | 1568   | 30.2        | 45                | 2306 | 2394 | 2455  |
| S/MH                                                                                                                                                       | 1.2                  | 5           | 2047 | 2031 | 2008  | 0-40                                                 | 2539   | 48.8        | 55                | 2010 | 2175 | 2219  |
| Lamp Type                                                                                                                                                  | LED                  | 10          | 2020 | 1999 | 1976  | 0-60                                                 | 4323   | 83.1        | 65                | 1684 | 1872 | 1643  |
| Lumens/Lamp                                                                                                                                                | 5200                 | 15          | 1962 | 1956 | 1919  | 0-90                                                 | 5200   | 100.0       | 75                | 1336 | 1367 | 1092  |
| Input Watts                                                                                                                                                | 60                   | 20          | 1884 | 1882 | 1856  |                                                      |        |             | 85                | 1019 | 710  | 386   |
|                                                                                                                                                            |                      | 25          | 1786 | 1792 | 1788  | Coefficients of Utilization                          |        |             |                   |      |      |       |
| Comparative yearly lighting energy cost per 1000 lumens – \$2.76 based on 3000 hrs. and \$.08 pwr KWH.                                                     |                      | 30          | 1665 | 1683 | 1689  | EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20) |        |             |                   |      |      |       |
|                                                                                                                                                            |                      | 35          | 1539 | 1554 | 1571  | pcc                                                  | 80     | 70          | 50                |      |      |       |
| The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology. |                      | 40          | 1381 | 1411 | 1440  | pw                                                   | 70     | 50          | 30                | 70   | 50   | 30    |
|                                                                                                                                                            |                      | 45          | 1212 | 1258 | 1290  | RCR                                                  |        |             |                   |      |      |       |
| Photometric values based on test performed in compliance with LM-79.                                                                                       |                      | 50          | 1034 | 1097 | 1132  | 0                                                    | 118    | 118         | 118               | 115  | 115  | 115   |
|                                                                                                                                                            |                      | 55          | 857  | 927  | 946   | 1                                                    | 110    | 105         | 101               | 107  | 103  | 98    |
|                                                                                                                                                            |                      | 60          | 688  | 765  | 724   | 2                                                    | 100    | 92          | 85                | 97   | 90   | 83    |
|                                                                                                                                                            |                      | 65          | 529  | 588  | 516   | 3                                                    | 92     | 81          | 73                | 89   | 80   | 72    |
|                                                                                                                                                            |                      | 70          | 384  | 411  | 343   | 4                                                    | 83     | 72          | 64                | 81   | 70   | 63    |
|                                                                                                                                                            |                      | 75          | 257  | 263  | 210   | 5                                                    | 77     | 65          | 56                | 75   | 64   | 56    |
|                                                                                                                                                            |                      | 80          | 151  | 142  | 108   | 6                                                    | 71     | 58          | 50                | 69   | 57   | 50    |
|                                                                                                                                                            |                      | 85          | 66   | 46   | 25    | 7                                                    | 67     | 53          | 45                | 65   | 53   | 44    |
|                                                                                                                                                            |                      |             |      |      |       | 8                                                    | 61     | 48          | 40                | 59   | 47   | 40    |
|                                                                                                                                                            |                      |             |      |      |       | 9                                                    | 57     | 45          | 36                | 56   | 44   | 35    |
|                                                                                                                                                            |                      |             |      |      |       | 10                                                   | 54     | 40          | 34                | 53   | 40   | 33    |

## 2x4 Attune Air LED, 6600 nominal delivered lumens, diffuse

## LER – 85

| Catalog No.                                                                                                                                                | 2ATNGA66L840-4-D-UNV | Candlepower |      |      |       | Light Distribution                                   |        |             | Average Luminance |      |      |       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------|------|------|-------|------------------------------------------------------|--------|-------------|-------------------|------|------|-------|
|                                                                                                                                                            |                      | Angle       | End  | 45   | Cross | Degrees                                              | Lumens | % Luminaire | Angle             | End  | 45°  | Cross |
| Test No.                                                                                                                                                   | 30156                | 0           | 2582 | 2582 | 2582  | 0-30                                                 | 1987   | 30.1        | 45                | 2932 | 3033 | 3113  |
| S/MH                                                                                                                                                       | 1.2                  | 5           | 2592 | 2572 | 2541  | 0-40                                                 | 3218   | 48.8        | 55                | 2564 | 2782 | 2813  |
| Lamp Type                                                                                                                                                  | LED                  | 10          | 2557 | 2542 | 2499  | 0-60                                                 | 5482   | 83.2        | 65                | 2133 | 2365 | 2066  |
| Lumens/Lamp                                                                                                                                                | 6593                 | 15          | 2485 | 2479 | 2434  | 0-90                                                 | 6593   | 100.0       | 75                | 1705 | 1731 | 1383  |
| Input Watts                                                                                                                                                | 78                   | 20          | 2391 | 2391 | 2355  |                                                      |        |             | 85                | 1266 | 834  | 494   |
|                                                                                                                                                            |                      | 25          | 2266 | 2272 | 2268  | Coefficients of Utilization                          |        |             |                   |      |      |       |
| Comparative yearly lighting energy cost per 1000 lumens – \$2.82 based on 3000 hrs. and \$.08 pwr KWH.                                                     |                      | 30          | 2113 | 2132 | 2138  | EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20) |        |             |                   |      |      |       |
|                                                                                                                                                            |                      | 35          | 1937 | 1972 | 1990  | pcc                                                  | 80     | 70          | 50                |      |      |       |
| The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology. |                      | 40          | 1754 | 1792 | 1818  | pw                                                   | 70     | 50          | 30                | 70   | 50   | 30    |
|                                                                                                                                                            |                      | 45          | 1541 | 1594 | 1636  | RCR                                                  |        |             |                   |      |      |       |
| Photometric values based on test performed in compliance with LM-79.                                                                                       |                      | 50          | 1314 | 1392 | 1433  | 0                                                    | 118    | 118         | 118               | 115  | 115  | 115   |
|                                                                                                                                                            |                      | 55          | 1093 | 1186 | 1199  | 1                                                    | 110    | 105         | 101               | 107  | 103  | 98    |
|                                                                                                                                                            |                      | 60          | 871  | 970  | 922   | 2                                                    | 100    | 92          | 85                | 97   | 90   | 83    |
|                                                                                                                                                            |                      | 65          | 670  | 743  | 649   | 3                                                    | 92     | 81          | 73                | 89   | 80   | 72    |
|                                                                                                                                                            |                      | 70          | 488  | 524  | 431   | 4                                                    | 83     | 72          | 64                | 81   | 70   | 63    |
|                                                                                                                                                            |                      | 75          | 328  | 333  | 266   | 5                                                    | 77     | 65          | 56                | 75   | 64   | 56    |
|                                                                                                                                                            |                      | 80          | 191  | 180  | 136   | 6                                                    | 71     | 58          | 50                | 69   | 57   | 50    |
|                                                                                                                                                            |                      | 85          | 82   | 54   | 32    | 7                                                    | 67     | 53          | 45                | 65   | 53   | 44    |
|                                                                                                                                                            |                      |             |      |      |       | 8                                                    | 61     | 48          | 40                | 59   | 47   | 40    |
|                                                                                                                                                            |                      |             |      |      |       | 9                                                    | 57     | 45          | 36                | 56   | 44   | 35    |
|                                                                                                                                                            |                      |             |      |      |       | 10                                                   | 54     | 40          | 34                | 53   | 40   | 33    |

