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| Ostwald optimal colours (o), maximum (m) C <sub>AB,10</sub> for A00, Y <sub>N,10</sub> =3,6, Y <sub>W,10</sub> =90, Y <sub>m</sub> =520_770 |                                 |                 |                   |                   |                      |                   |                   |                      |                                 |                                 |      |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------------|-------------------|-------------------|----------------------|-------------------|-------------------|----------------------|---------------------------------|---------------------------------|------|--|--|
| i <sub>1</sub> , λ <sub>1</sub>                                                                                                             | i <sub>2</sub> , λ <sub>2</sub> | Y <sub>10</sub> | A <sub>1,10</sub> | B <sub>1,10</sub> | C <sub>A1B1,10</sub> | a <sub>1,10</sub> | b <sub>1,10</sub> | h <sub>xy,1,10</sub> | i <sub>d</sub> , λ <sub>d</sub> | i <sub>c</sub> , λ <sub>c</sub> | Code |  |  |
| 1 405                                                                                                                                       | 34 570                          | 43.62           | -56.3             | -12.86            | 57.75                | 0.324             | -0.2587           | 192.8                | 17 487                          | 39 597                          | Cm   |  |  |
| 7 435                                                                                                                                       | 34 570                          | 43.83           | -57.03            | -6.63             | 57.41                | 0.3198            | -0.2012           | 186.6                | 18 491                          | 47 637                          |      |  |  |
| 9 450                                                                                                                                       | 34 571                          | 44.13           | -57.31            | -2.29             | 57.35                | 0.3209            | -0.1615           | 182.2                | 19 495                          | -1 495c                         |      |  |  |
| 12 460                                                                                                                                      | 34 572                          | 44.4            | -57.07            | 4.54              | 57.26                | 0.3261            | -0.0998           | 175.4                | 21 505                          | -1 505c                         |      |  |  |
| 13 465                                                                                                                                      | 34 573                          | 44.87           | -56.7             | 6.74              | 57.1                 | 0.3349            | -0.0806           | 173.2                | 22 512                          | -1 512c                         |      |  |  |
| 14 470                                                                                                                                      | 34 574                          | 45.75           | -56.1             | 8.82              | 56.79                | 0.3498            | -0.0636           | 171.0                | 24 520                          | -1 520c                         |      |  |  |
| 15 475                                                                                                                                      | 35 576                          | 46.7            | -54.94            | 10.59             | 55.95                | 0.3697            | -0.05             | 169.0                | 25 528                          | -1 528c                         | Gm   |  |  |
| 16 480                                                                                                                                      | 36 581                          | 49.04           | -52.95            | 12.54             | 54.42                | 0.4083            | -0.0384           | 166.6                | 27 537                          | -1 537c                         |      |  |  |
| 17 485                                                                                                                                      | 37 588                          | 53.77           | -47.93            | 15.09             | 50.25                | 0.4837            | -0.0284           | 162.5                | 29 547                          | -1 547c                         |      |  |  |
| 18 490                                                                                                                                      | 41 609                          | 64.8            | -28.73            | 19.65             | 34.81                | 0.6629            | -0.0194           | 145.6                | 32 561                          | -1 561c                         |      |  |  |
| 19 495                                                                                                                                      | -1 495c                         | 76.7            | 7.92              | 24.35             | 25.61                | 0.8816            | -0.0137           | 71.9                 | 34 573                          | 13 465                          |      |  |  |
| 20 500                                                                                                                                      | -1 500c                         | 75.66           | 10.46             | 24.38             | 26.53                | 0.8956            | -0.0118           | 66.7                 | 34 573                          | 13 468                          | max  |  |  |
| 21 510                                                                                                                                      | -1 509c                         | 74.4            | 13.39             | 24.24             | 27.69                | 0.9123            | -0.0104           | 61.0                 | 34 574                          | 14 470                          |      |  |  |
| 24 520                                                                                                                                      | -1 520c                         | 69.14           | 24.42             | 22.91             | 33.49                | 0.9815            | -0.0081           | 43.1                 | 35 577                          | 15 476                          | Ym   |  |  |
| 25 530                                                                                                                                      | -1 529c                         | 66.89           | 28.58             | 22.22             | 36.2                 | 1.0112            | -0.0078           | 37.8                 | 35 578                          | 15 477                          |      |  |  |
| 27 540                                                                                                                                      | -1 539c                         | 61.69           | 37.11             | 20.51             | 42.4                 | 1.0809            | -0.0077           | 28.9                 | 36 581                          | 16 480                          |      |  |  |
| 29 545                                                                                                                                      | -1 545c                         | 55.7            | 45.18             | 18.45             | 48.8                 | 1.1647            | -0.0082           | 22.2                 | 37 585                          | 16 483                          |      |  |  |
| 30 550                                                                                                                                      | -1 550c                         | 52.48           | 48.7              | 17.32             | 51.7                 | 1.2115            | -0.0087           | 19.5                 | 37 587                          | 16 484                          |      |  |  |
| 31 555                                                                                                                                      | -1 555c                         | 49.13           | 51.72             | 16.15             | 54.19                | 1.2614            | -0.0092           | 17.3                 | 37 589                          | 17 485                          |      |  |  |
| 32 560                                                                                                                                      | -1 560c                         | 45.69           | 54.1              | 14.94             | 56.12                | 1.3138            | -0.0099           | 15.4                 | 38 592                          | 17 486                          |      |  |  |
| 34 570                                                                                                                                      | 1 405                           | 46.37           | 56.29             | 12.86             | 57.74                | 1.3259            | -0.0298           | 12.8                 | 39 597                          | 17 487                          | Rm   |  |  |
| 34 570                                                                                                                                      | 7 435                           | 46.16           | 57.02             | 6.63              | 57.41                | 1.3344            | -0.0832           | 6.6                  | 47 637                          | 18 491                          |      |  |  |
| 34 571                                                                                                                                      | 9 450                           | 45.86           | 57.3              | 2.29              | 57.35                | 1.3401            | -0.1207           | 2.2                  | -1 495c                         | 19 495                          |      |  |  |
| 34 572                                                                                                                                      | 12 460                          | 45.59           | 57.07             | -4.54             | 57.25                | 1.341             | -0.1806           | 355.4                | -1 505c                         | 21 505                          |      |  |  |
| 34 573                                                                                                                                      | 13 465                          | 45.12           | 56.69             | -6.74             | 57.09                | 1.3428            | -0.2005           | 353.2                | -1 512c                         | 22 512                          |      |  |  |
| 34 574                                                                                                                                      | 14 470                          | 44.24           | 56.1              | -8.82             | 56.79                | 1.3475            | -0.2205           | 351.0                | -1 520c                         | 24 520                          |      |  |  |
| 35 576                                                                                                                                      | 15 475                          | 43.29           | 54.93             | -10.59            | 55.94                | 1.3478            | -0.2386           | 349.0                | -1 528c                         | 25 528                          | Mm   |  |  |
| 36 581                                                                                                                                      | 16 480                          | 40.95           | 52.94             | -12.54            | 54.41                | 1.3573            | -0.2632           | 346.6                | -1 537c                         | 27 537                          |      |  |  |
| 37 588                                                                                                                                      | 17 485                          | 36.22           | 47.92             | -15.09            | 50.24                | 1.3695            | -0.3074           | 342.5                | -1 547c                         | 29 547                          |      |  |  |
| 41 609                                                                                                                                      | 18 490                          | 25.19           | 28.72             | -19.65            | 34.8                 | 1.2965            | -0.4528           | 325.6                | -1 561c                         | 32 561                          |      |  |  |
| -1 495c                                                                                                                                     | 19 495                          | 13.29           | -7.92             | -24.35            | 25.6                 | 0.6019            | -0.8734           | 251.9                | 13 465                          | 34 573                          |      |  |  |
| -1 500c                                                                                                                                     | 20 500                          | 14.33           | -10.46            | -24.38            | 26.53                | 0.5484            | -0.8209           | 246.7                | 13 468                          | 34 573                          | min  |  |  |
| -1 509c                                                                                                                                     | 21 510                          | 15.59           | -13.39            | -24.23            | 27.69                | 0.4966            | -0.7624           | 241.0                | 14 470                          | 34 574                          |      |  |  |
| -1 520c                                                                                                                                     | 24 520                          | 20.85           | -24.42            | -22.91            | 33.48                | 0.3718            | -0.5802           | 223.1                | 15 476                          | 35 577                          | Bm   |  |  |
| -1 529c                                                                                                                                     | 25 530                          | 23.1            | -28.58            | -22.22            | 36.2                 | 0.3454            | -0.5254           | 217.8                | 15 477                          | 35 578                          |      |  |  |
| -1 539c                                                                                                                                     | 27 540                          | 28.3            | -37.11            | -20.51            | 42.4                 | 0.3157            | -0.4306           | 208.9                | 16 480                          | 36 581                          |      |  |  |
| -1 545c                                                                                                                                     | 29 545                          | 34.29           | -45.18            | -18.45            | 48.8                 | 0.3132            | -0.356            | 202.2                | 16 483                          | 37 585                          |      |  |  |
| -1 550c                                                                                                                                     | 30 550                          | 37.51           | -48.71            | -17.32            | 51.7                 | 0.3208            | -0.3255           | 199.5                | 16 484                          | 37 587                          |      |  |  |
| -1 555c                                                                                                                                     | 31 555                          | 40.86           | -51.73            | -16.15            | 54.19                | 0.3339            | -0.2988           | 197.3                | 17 485                          | 37 589                          |      |  |  |
| -1 560c                                                                                                                                     | 32 560                          | 44.3            | -54.1             | -14.94            | 56.12                | 0.3518            | -0.2756           | 195.4                | 17 486                          | 38 592                          |      |  |  |
| W0 380                                                                                                                                      | 770                             | 89.99           | 0.0               | 0.0               | 0.0                  | 0.8403            | -0.1407           | 0.0                  | B <sub>c</sub> =1,000           |                                 |      |  |  |
| N0 380                                                                                                                                      | 770                             | 3.59            | 0.0               | 0.0               | 0.0                  | 0.8403            | -0.1407           | 0.0                  | x <sub>c</sub> =0,110           |                                 |      |  |  |

DEJ80-7N

TUB-test chart DEJ8; Ostwald optimal colours, Y<sub>N,10</sub>=3,6, Y<sub>W,10</sub>=90, illuminant A00, CIE-10-degree  
Table data: [YA<sub>1</sub>B<sub>1</sub>C<sub>AB,1</sub>h<sub>AB,1</sub>]<sub>10</sub> and [YA<sub>2</sub>B<sub>2</sub>C<sub>AB,2</sub>h<sub>AB,2</sub>]<sub>10</sub> with different wavelength ranges

| Ostwald optimal colours (o), maximum (m) C <sub>AB,10</sub> for A00, Y <sub>N,10</sub> =3,6, Y <sub>W,10</sub> =90, Y <sub>m</sub> =520_770 |                                 |                 |                   |                   |                      |                   |                   |                      |                                 |                                 |      |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------------|-------------------|-------------------|----------------------|-------------------|-------------------|----------------------|---------------------------------|---------------------------------|------|--|--|
| i <sub>1</sub> , λ <sub>1</sub>                                                                                                             | i <sub>2</sub> , λ <sub>2</sub> | Y <sub>10</sub> | A <sub>2,10</sub> | B <sub>2,10</sub> | C <sub>A2B2,10</sub> | a <sub>2,10</sub> | b <sub>2,10</sub> | h <sub>xy,2,10</sub> | i <sub>d</sub> , λ <sub>d</sub> | i <sub>c</sub> , λ <sub>c</sub> | Code |  |  |
| 1 405                                                                                                                                       | 34 570                          | 43.62           | -56.3             | -32.15            | 64.83                | 0.324             | -0.2587           | 209.7                | 17 487                          | 39 597                          | Cm   |  |  |
| 7 435                                                                                                                                       | 34 570                          | 43.83           | -57.03            | -16.58            | 59.39                | 0.3198            | -0.2012           | 196.2                | 18 491                          | 47 637                          |      |  |  |
| 9 450                                                                                                                                       | 34 571                          | 44.13           | -57.31            | -5.74             | 57.6                 | 0.3209            | -0.1615           | 185.7                | 19 495                          | -1 495c                         |      |  |  |
| 12 460                                                                                                                                      | 34 572                          | 44.4            | -57.07            | 11.36             | 58.2                 | 0.3261            | -0.0998           | 168.7                | 21 505                          | -1 505c                         |      |  |  |
| 13 465                                                                                                                                      | 34 573                          | 44.87           | -56.7             | 16.86             | 59.15                | 0.3349            | -0.0806           | 163.4                | 22 512                          | -1 512c                         |      |  |  |
| 14 470                                                                                                                                      | 34 574                          | 45.75           | -56.1             | 22.06             | 60.29                | 0.3498            | -0.0636           | 158.5                | 24 520                          | -1 520c                         |      |  |  |
| 15 475                                                                                                                                      | 35 576                          | 46.7            | -54.94            | 26.48             | 60.99                | 0.3697            | -0.05             | 154.2                | 25 528                          | -1 528c                         | Gm   |  |  |
| 16 480                                                                                                                                      | 36 581                          | 49.04           | -52.95            | 31.37             | 61.55                | 0.4083            | -0.0384           | 149.3                | 27 537                          | -1 537c                         |      |  |  |
| 17 485                                                                                                                                      | 37 588                          | 53.77           | -47.93            | 37.74             | 61.0                 | 0.4837            | -0.0284           | 141.7                | 29 547                          | -1 547c                         |      |  |  |
| 18 490                                                                                                                                      | 41 609                          | 64.8            | -28.73            | 49.13             | 56.92                | 0.6629            | -0.0194           | 120.3                | 32 561                          | -1 561c                         |      |  |  |
| 19 495                                                                                                                                      | -1 495c                         | 76.7            | 7.92              | 60.89             | 61.4                 | 0.8816            | -0.0137           | 82.5                 | 34 573                          | 13 465                          |      |  |  |
| 20 500                                                                                                                                      | -1 500c                         | 75.66           | 10.46             | 60.96             | 61.85                | 0.8956            | -0.0118           | 80.2                 | 34 573                          | 13 468                          | max  |  |  |
| 21 510                                                                                                                                      | -1 509c                         | 74.4            | 13.39             | 60.6              | 62.06                | 0.9123            | -0.0104           | 77.5                 | 34 574                          | 14 470                          |      |  |  |
| 24 520                                                                                                                                      | -1 520c                         | 69.14           | 24.42             | 57.29             | 62.28                | 0.9815            | -0.0081           | 66.9                 | 35 577                          | 15 476                          | Ym   |  |  |
| 25 530                                                                                                                                      | -1 529c                         | 66.89           | 28.58             | 55.55             | 62.47                | 1.0112            | -0.0078           | 62.7                 | 35 578                          | 15 477                          |      |  |  |
| 27 540                                                                                                                                      | -1 539c                         | 61.69           | 37.11             | 51.27             | 63.3                 | 1.0809            | -0.0077           | 54.0                 | 36 581                          | 16 480                          |      |  |  |
| 29 545                                                                                                                                      | -1 545c                         | 55.7            | 45.18             | 46.13             | 64.57                | 1.1647            | -0.0082           | 45.5                 | 37 585                          | 16 483                          |      |  |  |
| 30 550                                                                                                                                      | -1 550c                         | 52.48           | 48.7              | 43.32             | 65.18                | 1.2115            | -0.0087           | 41.6                 | 37 587                          | 16 484                          |      |  |  |
| 31 555                                                                                                                                      | -1 555c                         | 49.13           | 51.72             | 40.38             | 65.62                | 1.2614            | -0.0092           | 37.9                 | 37 589                          | 17 485                          |      |  |  |
| 32 560                                                                                                                                      | -1 560c                         | 45.69           | 54.1              | 37.35             | 65.74                | 1.3138            | -0.0099           | 34.6                 | 38 592                          | 17 486                          |      |  |  |
| 34 570                                                                                                                                      | 1 405                           | 46.37           | 56.29             | 32.15             | 64.83                | 1.3259            | -0.0298           | 29.7                 | 39 597                          | 17 487                          | Rm   |  |  |
| 34 570                                                                                                                                      | 7 435                           | 46.16           | 57.02             | 16.58             | 59.39                | 1.3344            | -0.0832           | 16.2                 | 47 637                          | 18 491                          |      |  |  |
| 34 571                                                                                                                                      | 9 450                           | 45.86           | 57.3              | 5.74              | 57.59                | 1.3401            | -0.1207           | 5.7                  | -1 495c                         | 19 495                          |      |  |  |
| 34 572                                                                                                                                      | 12 460                          | 45.59           | 57.07             | -11.36            | 58.19                | 1.341             | -0.1806           | 348.7                | -1 505c                         | 21 505                          |      |  |  |
| 34 573                                                                                                                                      | 13 465                          | 45.12           | 56.69             | -16.86            | 59.14                | 1.3428            | -0.2005           | 343.4                | -1 512c                         | 22 512                          |      |  |  |
| 34 574                                                                                                                                      | 14 470                          | 44.24           | 56.1              | -22.05            | 60.28                | 1.3475            | -0.2205           | 338.5                | -1 520c                         | 24 520                          |      |  |  |
| 35 576                                                                                                                                      | 15 475                          | 43.29           | 54.93             | -26.47            | 60.98                | 1.3478            | -0.2386           | 334.2                | -1 528c                         | 25 528                          | Mm   |  |  |
| 36 581                                                                                                                                      | 16 480                          | 40.95           | 52.94             | -31.36            | 61.54                | 1.3573            | -0.2632           | 329.3                | -1 537c                         | 27 537                          |      |  |  |
| 37 588                                                                                                                                      | 17 485                          | 36.22           | 47.92             | -37.73            | 60.99                | 1.3695            | -0.3074           | 321.7                | -1 547c                         | 29 547                          |      |  |  |
| 41 609                                                                                                                                      | 18 490                          | 25.19           | 28.72             | -49.12            | 56.91                | 1.2965            | -0.4528           | 300.3                | -1 561c                         | 32 561                          |      |  |  |
| -1 495c                                                                                                                                     | 19 495                          | 13.29           | -7.92             | -60.88            | 61.39                | 0.6019            | -0.8734           | 262.5                | 13 465                          | 34 573                          |      |  |  |
| -1 500c                                                                                                                                     | 20 500                          | 14.33           | -10.46            | -60.95            | 61.84                | 0.5484            | -0.8209           | 260.2                | 13 468                          | 34 573                          | min  |  |  |
| -1 509c                                                                                                                                     | 21 510                          | 15.59           | -13.39            | -60.59            | 62.05                | 0.4966            | -0.7624           | 257.5                | 14 470                          | 34 574                          |      |  |  |
| -1 520c                                                                                                                                     | 24 520                          | 20.85           | -24.42            | -57.28            | 62.27                | 0.3718            | -0.5802           | 246.9                | 15 476                          | 35 577                          | Bm   |  |  |
| -1 529c                                                                                                                                     | 25 530                          | 23.1            | -28.58            | -55.55            | 62.47                | 0.3454            | -0.5254           | 242.7                | 15 477                          | 35 578                          |      |  |  |
| -1 539c                                                                                                                                     | 27 540                          | 28.3            | -37.11            | -51.27            | 63.3                 | 0.3157            | -0.4306           | 234.0                | 16 480                          | 36 581                          |      |  |  |
| -1 545c                                                                                                                                     | 29 545                          | 34.29           | -45.18            | -46.13            | 64.57                | 0.3132            | -0.356            | 225.5                | 16 483                          | 37 585                          |      |  |  |
| -1 550c                                                                                                                                     | 30 550                          | 37.51           | -48.71            | -43.32            | 65.18                | 0.3208            | -0.3255           | 221.6                | 16 484                          | 37 587                          |      |  |  |
| -1 555c                                                                                                                                     | 31 555                          | 40.86           | -51.73            | -40.38            | 65.62                | 0.3339            | -0.2988           | 217.9                | 17 485                          | 37 589                          |      |  |  |
| -1 560c                                                                                                                                     | 32 560                          | 44.3            | -54.1             | -37.35            | 65.74                | 0.3518            | -0.2756           | 214.6                | 17 486                          | 38 592                          |      |  |  |
| W0 380                                                                                                                                      | 770                             | 89.99           | 0.0               | 0.0               | 0.0                  | 0.8403            | -0.3519           | 0.0                  | B <sub>c</sub> =2,500           |                                 |      |  |  |
| N0 380                                                                                                                                      | 770                             | 3.59            | 0.0               | 0.0               | 0.0                  | 0.8403            | -0.3519           | 0.0                  | x <sub>c</sub> =0,110           |                                 |      |  |  |