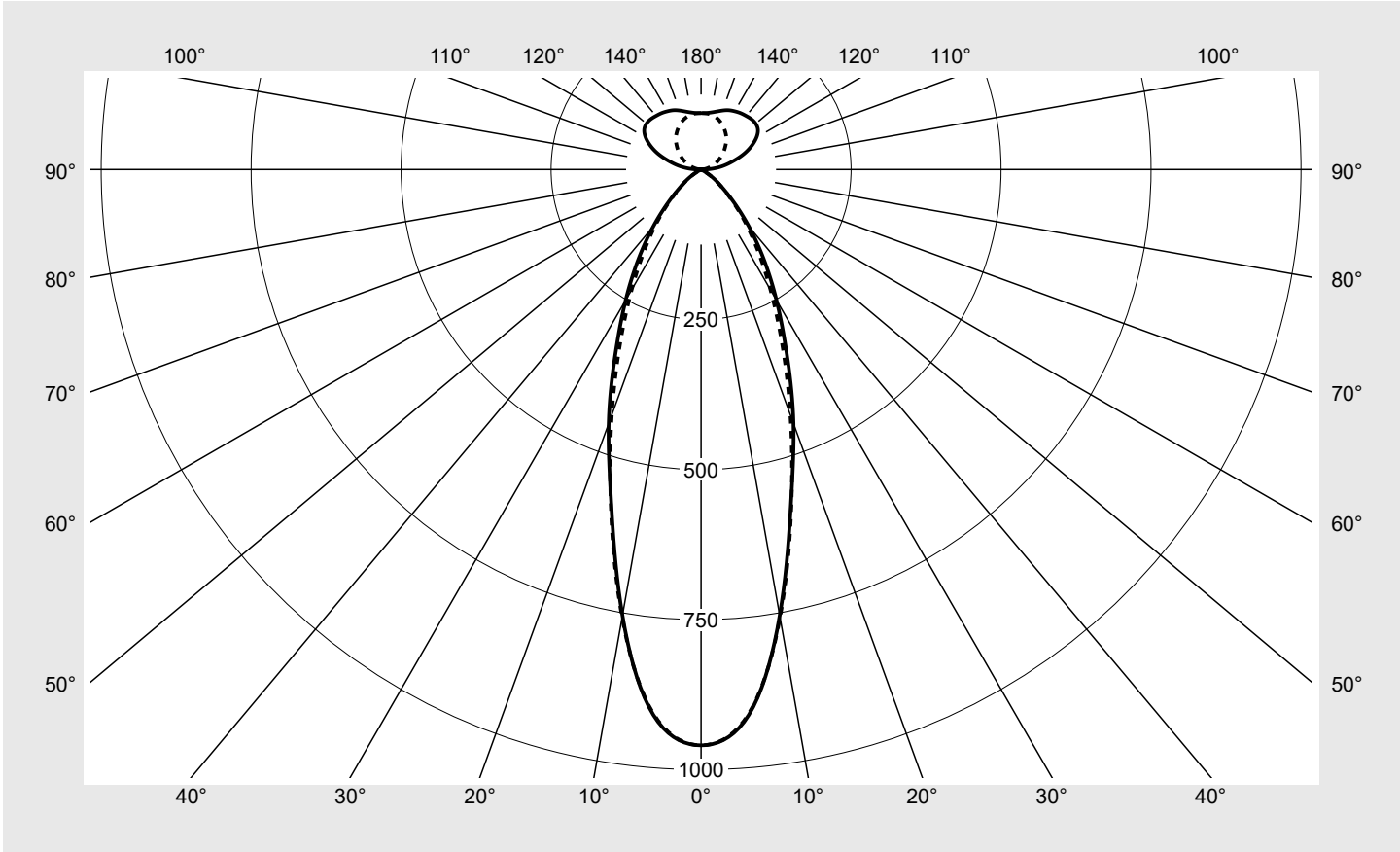


Photometric test report

| | | |
|---|--|--|
| Family Silica® 21  | Order number: 51MX31DA47SB EAN: 4058352884621 | LP number 59281_80 |
| | Version Suspended luminaire, reflector, black, direct-/indirect distribution, narrow distribution, UGR≤16 (L65≤3000cd/m²) Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 7290 lm Power consumption = 43.8 W Luminous efficacy = 166.4 lm/W | serial documentation 02.08.2023 |

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 959 cd/klm**



| Classifications | |
|-----------------|------------------------------------|
| DIN 5040 | C 7 2 |
| CIE | N1=86 N2=99 N3=100 N4=59 N5=100 |

| Luminaire light output ratios | |
|-------------------------------|--------|
| η_{LB} | 100.0% |
| ϕ_u | 59.0% |
| ϕ_o | 41.0% |

| Measurement conditions |
|---------------------------|
| DIN EN 13032 and DIN 5032 |

Photometric test report

| | | |
|---|--|-----------------------------------|
| Family Silica® 21 | Order number: 51MX31DA47SB EAN: 4058352884621 | LP number 59281_80 |
| Table of values for luminous intensities | | Maximum luminous intensity |
| | | |



| C-planes γ | 0° 180° | 15° | 30° | 45° | 60° | 75° | 90° 270° | Phi-zone | Total Phi-zone |
|------------------------------|------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------|-------------------------|-------------------|
| | | 165° 195° 345° | 150° 210° 330° | 135° 225° 315° | 120° 240° 300° | 105° 255° 285° | | | |
| Luminous intensity in cd/klm | | | | | | | | Luminous flux in lm/klm | |
| 0° | 959.4 | 959.4 | 959.4 | 959.4 | 959.4 | 959.4 | 959.4 | 5.7 | 5.7 |
| 5° | 912.2 | 913.2 | 911.7 | 911.4 | 911.5 | 911.7 | 910.3 | 43.6 | 49.3 |
| 10° | 754.6 | 755.9 | 762.5 | 767.9 | 766.9 | 758.5 | 757.5 | 72.5 | 121.8 |
| 15° | 578.2 | 581.5 | 588.5 | 595.2 | 592.8 | 584.9 | 581.1 | 83.3 | 205.1 |
| 20° | 450.2 | 447.9 | 438.1 | 432.3 | 432.3 | 433.7 | 435.2 | 82.1 | 287.1 |
| 25° | 337.4 | 332.5 | 314.5 | 302.7 | 311.9 | 319.4 | 319.2 | 73.7 | 360.8 |
| 30° | 251.3 | 246.8 | 227.0 | 216.4 | 227.8 | 237.2 | 231.6 | 63.8 | 424.6 |
| 35° | 181.9 | 180.8 | 165.4 | 156.1 | 165.0 | 174.0 | 165.2 | 53.2 | 477.8 |
| 40° | 124.1 | 124.5 | 116.4 | 111.0 | 116.6 | 120.7 | 113.9 | 41.6 | 519.4 |
| 45° | 77.3 | 77.7 | 75.1 | 73.6 | 76.6 | 76.5 | 72.7 | 29.4 | 548.8 |
| 50° | 44.9 | 46.1 | 46.4 | 46.4 | 47.6 | 45.7 | 43.0 | 19.3 | 568.1 |
| 55° | 25.0 | 26.0 | 27.2 | 27.9 | 28.2 | 25.7 | 24.0 | 11.9 | 580.0 |
| 60° | 7.9 | 9.6 | 14.5 | 15.8 | 15.1 | 10.6 | 8.6 | 5.8 | 585.9 |
| 65° | 2.5 | 3.1 | 4.5 | 8.1 | 4.9 | 3.1 | 2.7 | 2.2 | 588.0 |
| 70° | 1.0 | 1.1 | 0.9 | 1.6 | 1.1 | 1.3 | 1.3 | 0.6 | 588.6 |
| 75° | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 588.8 |
| 80° | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 588.8 |
| 85° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.2 | 589.1 |
| 90° | 4.7 | 4.6 | 4.9 | 4.8 | 2.9 | 1.0 | 0.4 | 1.9 | 590.9 |
| 95° | 22.0 | 22.5 | 24.1 | 22.8 | 14.6 | 7.5 | 3.9 | 9.5 | 600.4 |
| 100° | 39.3 | 40.4 | 40.8 | 35.7 | 24.0 | 13.5 | 8.9 | 16.1 | 616.5 |
| 105° | 56.4 | 57.6 | 56.5 | 48.2 | 33.0 | 20.5 | 15.0 | 22.2 | 638.7 |
| 110° | 75.8 | 76.1 | 71.3 | 59.4 | 42.3 | 27.6 | 21.4 | 27.9 | 666.6 |
| 115° | 92.7 | 91.8 | 84.7 | 69.7 | 51.3 | 34.9 | 28.6 | 32.5 | 699.2 |
| 120° | 106.6 | 104.9 | 95.6 | 78.0 | 59.7 | 42.0 | 35.6 | 35.7 | 734.9 |
| 125° | 115.7 | 112.5 | 102.2 | 85.6 | 66.8 | 48.7 | 43.0 | 37.1 | 771.9 |
| 130° | 118.9 | 116.2 | 105.4 | 90.1 | 72.2 | 55.6 | 50.5 | 36.7 | 808.6 |
| 135° | 118.7 | 116.2 | 106.6 | 93.2 | 76.5 | 62.0 | 57.9 | 35.1 | 843.7 |
| 140° | 116.7 | 115.0 | 106.9 | 95.4 | 80.1 | 68.1 | 65.7 | 32.7 | 876.4 |
| 145° | 114.8 | 113.6 | 106.8 | 96.6 | 83.5 | 73.7 | 72.0 | 29.7 | 906.1 |
| 150° | 112.1 | 111.6 | 105.6 | 96.5 | 86.2 | 79.2 | 77.7 | 26.2 | 932.3 |
| 155° | 109.0 | 108.7 | 103.0 | 96.1 | 88.3 | 84.0 | 82.9 | 22.2 | 954.6 |
| 160° | 104.7 | 104.4 | 99.9 | 95.3 | 90.2 | 87.8 | 87.5 | 17.9 | 972.5 |
| 165° | 100.1 | 99.5 | 97.2 | 94.2 | 92.0 | 90.8 | 90.9 | 13.5 | 985.9 |
| 170° | 96.6 | 96.1 | 95.5 | 94.2 | 93.3 | 93.1 | 93.2 | 9.0 | 994.9 |
| 175° | 94.6 | 94.5 | 94.0 | 93.8 | 93.8 | 93.9 | 93.9 | 4.5 | 999.4 |
| 180° | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 0.6 | 1000.0 |

Photometric test report

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| Family Silica® 21 | Order number: 51MX31DA47SB EAN: 4058352884621 | LP number 59281_80 |
|-----------------------------|--|------------------------------|

| | | |
|------------------|----------------------|---------------|
| UGR-Table | Standard room | siteco |
|------------------|----------------------|---------------|

| | | | | | | | | | | | |
|------------------------------|---------------------|------|------|------|------|--------------------|------|------|------|------|------|
| Reflection factor of ceiling | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | |
| Reflection factor of walls | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | |
| Reflection factor of floor | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | |
| Room dimensions | View crosswise (C0) | | | | | View endwise (C90) | | | | | |
| x | y | | | | | | | | | | |
| 2H | 2H | 14.3 | 15.1 | 15.1 | 15.9 | 17.0 | 14.2 | 15.0 | 15.0 | 15.8 | 16.9 |
| | 3H | 14.0 | 14.7 | 14.9 | 15.6 | 16.7 | 13.9 | 14.6 | 14.8 | 15.5 | 16.6 |
| | 4H | 13.8 | 14.5 | 14.7 | 15.4 | 16.5 | 13.8 | 14.4 | 14.7 | 15.3 | 16.4 |
| | 6H | 13.7 | 14.2 | 14.6 | 15.2 | 16.3 | 13.6 | 14.2 | 14.5 | 15.1 | 16.2 |
| | 8H | 13.6 | 14.1 | 14.5 | 15.0 | 16.2 | 13.5 | 14.0 | 14.4 | 14.9 | 16.1 |
| | 12H | 13.5 | 13.9 | 14.4 | 14.9 | 16.1 | 13.4 | 13.9 | 14.4 | 14.8 | 16.0 |
| 4H | 2H | 14.0 | 14.7 | 14.9 | 15.6 | 16.7 | 13.9 | 14.5 | 14.8 | 15.4 | 16.5 |
| | 3H | 13.7 | 14.3 | 14.7 | 15.2 | 16.4 | 13.6 | 14.2 | 14.5 | 15.1 | 16.2 |
| | 4H | 13.6 | 14.1 | 14.5 | 15.0 | 16.2 | 13.5 | 14.0 | 14.4 | 14.9 | 16.1 |
| | 6H | 13.4 | 13.8 | 14.4 | 14.8 | 16.0 | 13.3 | 13.7 | 14.3 | 14.7 | 15.9 |
| | 8H | 13.3 | 13.7 | 14.3 | 14.6 | 15.9 | 13.2 | 13.6 | 14.2 | 14.6 | 15.8 |
| | 12H | 13.2 | 13.5 | 14.2 | 14.5 | 15.7 | 13.1 | 13.5 | 14.1 | 14.4 | 15.6 |
| 8H | 4H | 13.3 | 13.7 | 14.3 | 14.7 | 15.9 | 13.2 | 13.6 | 14.2 | 14.5 | 15.7 |
| | 6H | 13.2 | 13.5 | 14.2 | 14.5 | 15.7 | 13.0 | 13.3 | 14.0 | 14.3 | 15.6 |
| | 8H | 13.1 | 13.4 | 14.1 | 14.3 | 15.6 | 13.0 | 13.3 | 14.0 | 14.2 | 15.5 |
| | 12H | 13.0 | 13.2 | 14.0 | 14.2 | 15.5 | 12.9 | 13.1 | 13.9 | 14.1 | 15.4 |
| 12H | 4H | 13.2 | 13.6 | 14.2 | 14.5 | 15.7 | 13.1 | 13.4 | 14.1 | 14.4 | 15.6 |
| | 6H | 13.1 | 13.3 | 14.1 | 14.3 | 15.6 | 13.0 | 13.2 | 14.0 | 14.2 | 15.5 |
| | 8H | 13.0 | 13.2 | 14.0 | 14.2 | 15.5 | 12.9 | 13.1 | 13.9 | 14.1 | 15.4 |

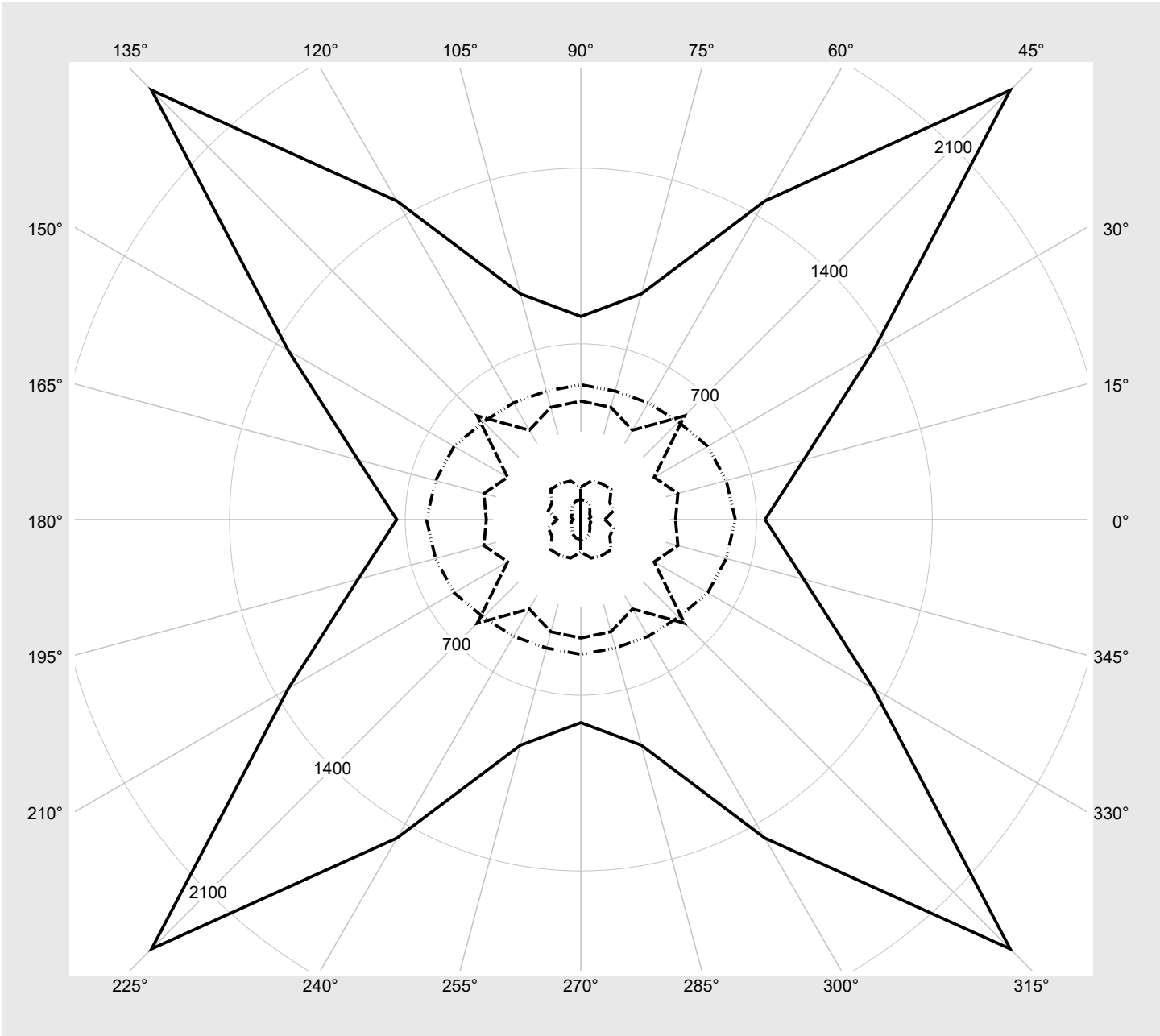
| | | | |
|------------------------|---|--------------------------------------|----------------------------------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | L = 1176 B = 49 |
|------------------------|---|--------------------------------------|----------------------------------|

| C-planes | γ | Luminance in cd/m ² | | | | | | |
|----------|----------|--------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|
| | | 0° 180° | 15° 165° 195° 345° | 30° 150° 210° 330° | 45° 135° 225° 315° | 60° 120° 240° 300° | 75° 105° 255° 285° | 90° 270° |
| 45° | | 13822.4 | 13893.0 | 13438.6 | 13172.6 | 13704.8 | 13693.4 | 13008.3 |
| 50° | | 8843.9 | 9071.0 | 9124.1 | 9140.1 | 9376.2 | 8994.2 | 8469.3 |
| 55° | | 5508.6 | 5731.1 | 5994.9 | 6159.7 | 6219.2 | 5673.8 | 5283.4 |
| 60° | | 1998.9 | 2426.0 | 3679.7 | 3986.3 | 3824.6 | 2675.4 | 2167.9 |
| 65° | | 733.7 | 919.3 | 1345.9 | 2419.0 | 1465.0 | 930.7 | 809.1 |
| 70° | | 376.9 | 400.2 | 337.0 | 584.1 | 411.3 | 462.7 | 472.0 |
| 75° | | 95.3 | 134.4 | 133.0 | 170.1 | 165.7 | 158.9 | 129.5 |
| 80° | | 30.6 | 40.8 | 40.8 | 51.0 | 66.3 | 75.8 | 80.9 |
| 85° | | 615.5 | 599.5 | 583.5 | 550.1 | 537.1 | 529.8 | 537.1 |

Photometric test report

| | | |
|------------------------------------|--|-------------------------------------|
| Family Silica® 21 | Order number: 51MX31DA47SB EAN: 4058352884621 | LP number 59281_80 |
|------------------------------------|--|-------------------------------------|

Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



Photometric test report

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|-----------------------------|--|------------------------------|
| Family Silica® 21 | Order number: 51MX31DA47SB EAN: 4058352884621 | LP number 59281_80 |
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| | | |
|-----------------------------|---------------------------------|---------------|
| Dimming levels table | environmental temperature: 25°C | sITeco |
|-----------------------------|---------------------------------|---------------|

| Luminous flux % | Dimming level linear | Dimming level logarithmic | Luminous flux [lm] | Power consumption [W] |
|-----------------|----------------------|---------------------------|--------------------|-----------------------|
| 100 | 254 | 254 | 7290 | 43.8 |
| 95 | 241 | 252 | 6937 | 41.6 |
| 90 | 227 | 250 | 6554 | 39.3 |
| 85 | 214 | 248 | 6196 | 37.1 |
| 80 | 201 | 245 | 5834 | 34.9 |
| 75 | 188 | 243 | 5472 | 32.7 |
| 70 | 175 | 240 | 5107 | 30.5 |
| 65 | 162 | 238 | 4740 | 28.4 |
| 60 | 149 | 234 | 4370 | 26.1 |
| 55 | 136 | 231 | 3998 | 24.1 |
| 50 | 124 | 228 | 3653 | 22.1 |
| 45 | 111 | 224 | 3277 | 19.9 |
| 40 | 99 | 219 | 2928 | 17.9 |
| 35 | 86 | 214 | 2548 | 15.8 |
| 30 | 74 | 209 | 2195 | 13.9 |
| 25 | 61 | 202 | 1810 | 11.7 |
| 20 | 49 | 194 | 1453 | 9.7 |
| 15 | 37 | 183 | 1096 | 7.7 |
| 10 | 25 | 169 | 737 | 5.8 |
| 5 | 13 | 145 | 377 | 4.0 |
| 2 | 6 | 117 | 166 | 3.4 |