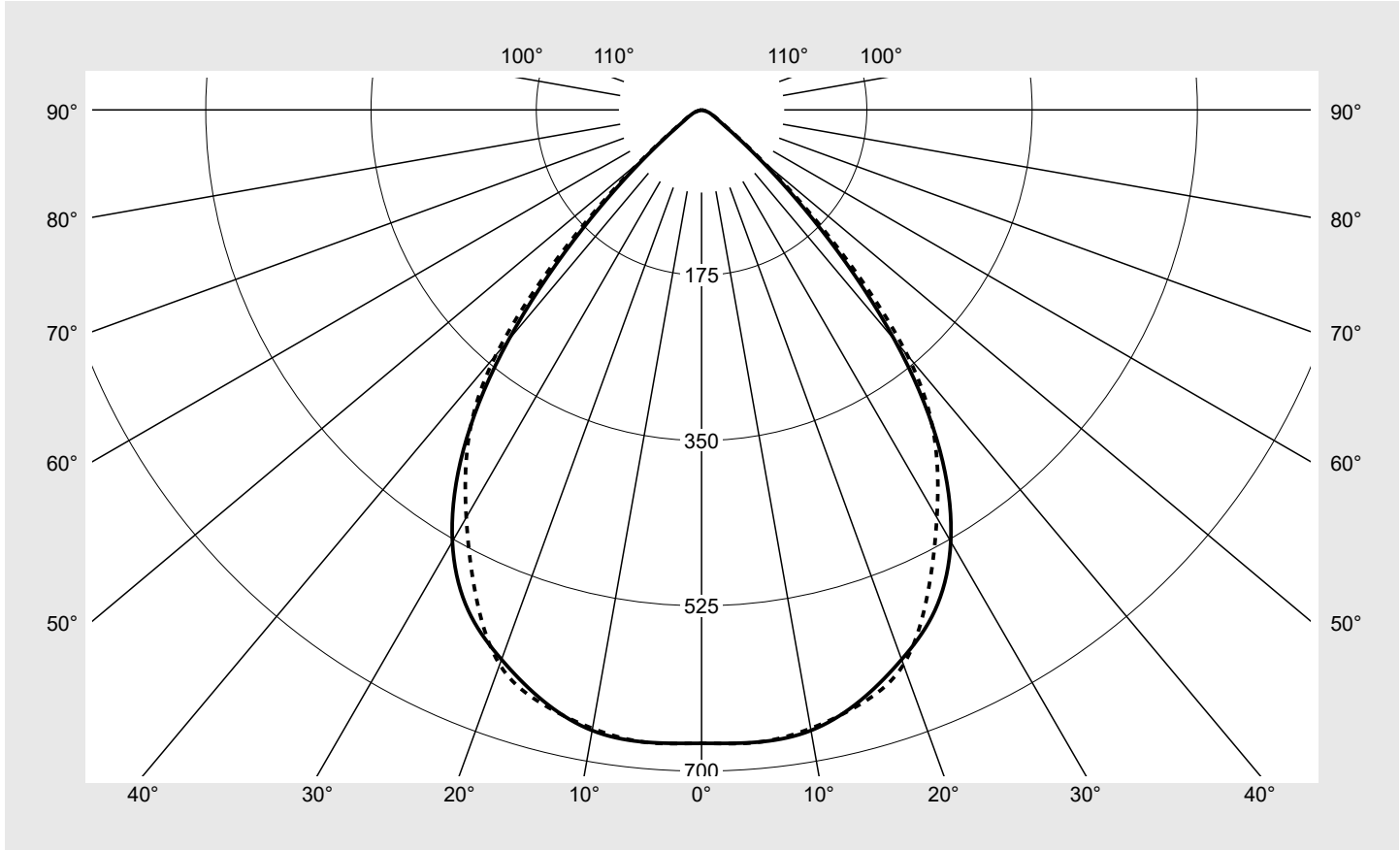


Photometric test report

| | | |
|--|--|---|
| Family Silica® 21 | Order number: 51MX6MTUT4W EAN: 4069025006561 | LP number 59273_164 |
|  | Version recessed luminaire for lay-in mounting, white, square M625, reflector, white, wide distribution, UGR≤19 (L65≤3000cd/m²), tunable white | serial documentation 08.02.2024 |
| | Lamps LED 2700 K ... 6500 K CRI ≥ 80 Controlgear ECG-DALI Setting individual position: colour temperature 2700K Rated values at 2700 K Net luminous flux = 3720 lm Power consumption = 34.8 W Luminous efficacy = 106.9 lm/W |  |

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 672 cd/klm**



| Classifications | |
|-----------------|-------------------------------------|
| DIN 5040 | A 6 0 |
| CIE | N1=81 N2=98 N3=100 N4=100 N5=100 |

| Luminaire light output ratios | |
|-------------------------------|--------|
| η_{LB} | 100.0% |
| ϕ_u | 100.0% |
| ϕ_o | 0.0% |

Measurement conditions
 DIN EN 13032 and DIN 5032

Photometric test report

| | | |
|--|---|-------------------------------|
| Family Silica® 21 | Order number: 51MX6MTUT4W EAN: 4069025006561 | LP number 59273_164 |
| Table of values for luminous intensities | | Maximum luminous intensity |
| | | siteco |

| 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° | 670.6 | 670.6 | 670.6 | 670.6 | 670.6 | 670.6 | 670.6 | 4.0 | 4.0 |
| 5° | 672.0 | 671.0 | 666.9 | 670.2 | 672.1 | 669.7 | 672.1 | 32.0 | 36.0 |
| 10° | 667.2 | 667.8 | 663.6 | 668.3 | 668.0 | 663.2 | 665.0 | 63.4 | 99.4 |
| 15° | 647.8 | 651.0 | 649.7 | 657.6 | 659.0 | 654.0 | 651.1 | 92.7 | 192.1 |
| 20° | 619.2 | 626.0 | 627.7 | 630.1 | 631.8 | 628.0 | 625.0 | 117.7 | 309.8 |
| 25° | 584.6 | 592.8 | 592.8 | 586.4 | 578.5 | 572.7 | 566.1 | 135.1 | 444.9 |
| 30° | 527.7 | 537.5 | 532.7 | 518.6 | 502.8 | 496.8 | 498.3 | 141.7 | 586.5 |
| 35° | 439.9 | 446.6 | 438.9 | 429.3 | 425.3 | 427.0 | 431.4 | 136.4 | 722.9 |
| 40° | 317.9 | 323.5 | 324.7 | 330.5 | 337.1 | 337.4 | 339.0 | 116.4 | 839.3 |
| 45° | 178.7 | 192.9 | 207.5 | 213.7 | 212.9 | 199.2 | 195.5 | 78.4 | 917.7 |
| 50° | 76.9 | 85.7 | 98.8 | 104.0 | 103.2 | 87.9 | 84.3 | 39.2 | 956.9 |
| 55° | 31.7 | 36.2 | 43.2 | 49.1 | 45.3 | 36.9 | 34.6 | 18.2 | 975.1 |
| 60° | 18.6 | 20.0 | 23.1 | 25.7 | 23.4 | 20.6 | 20.0 | 10.4 | 985.6 |
| 65° | 12.3 | 12.8 | 13.8 | 14.2 | 13.9 | 13.0 | 12.7 | 6.6 | 992.2 |
| 70° | 8.3 | 8.6 | 8.1 | 7.9 | 8.2 | 8.8 | 8.7 | 4.3 | 996.5 |
| 75° | 3.4 | 3.7 | 4.0 | 4.2 | 4.3 | 4.0 | 3.7 | 2.1 | 998.6 |
| 80° | 1.6 | 1.6 | 1.7 | 1.7 | 1.8 | 1.8 | 1.8 | 0.9 | 999.6 |
| 85° | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 | 0.9 | 0.9 | 0.4 | 1000.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |

Photometric test report

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|-----------------------------|---|-------------------------------|
| Family Silica® 21 | Order number: 51MX6MTUT4W EAN: 4069025006561 | LP number 59273_164 |
|-----------------------------|---|-------------------------------|

| | | | |
|-----------|---------------|--------|--|
| 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 | 18.8 | 20.1 | 19.1 | 20.4 | 20.7 | 18.8 | 20.2 | 19.2 | 20.5 | 20.8 |
| | 3H | 18.7 | 19.9 | 19.1 | 20.2 | 20.6 | 18.8 | 20.0 | 19.2 | 20.3 | 20.6 |
| | 4H | 18.7 | 19.7 | 19.1 | 20.1 | 20.5 | 18.7 | 19.8 | 19.1 | 20.2 | 20.5 |
| | 6H | 18.6 | 19.6 | 19.0 | 20.0 | 20.4 | 18.7 | 19.7 | 19.1 | 20.0 | 20.4 |
| | 8H | 18.7 | 19.5 | 19.1 | 19.9 | 20.3 | 18.7 | 19.6 | 19.2 | 20.0 | 20.4 |
| | 12H | 18.6 | 19.4 | 19.1 | 19.8 | 20.2 | 18.7 | 19.5 | 19.1 | 19.9 | 20.3 |
| 4H | 2H | 18.7 | 19.7 | 19.1 | 20.1 | 20.5 | 18.7 | 19.8 | 19.1 | 20.2 | 20.5 |
| | 3H | 18.6 | 19.5 | 19.0 | 19.9 | 20.3 | 18.7 | 19.6 | 19.1 | 20.0 | 20.4 |
| | 4H | 18.6 | 19.3 | 19.0 | 19.8 | 20.2 | 18.6 | 19.4 | 19.1 | 19.8 | 20.3 |
| | 6H | 18.5 | 19.2 | 19.0 | 19.6 | 20.1 | 18.6 | 19.2 | 19.0 | 19.7 | 20.1 |
| | 8H | 18.5 | 19.1 | 18.9 | 19.5 | 20.0 | 18.5 | 19.1 | 19.0 | 19.6 | 20.1 |
| | 12H | 18.5 | 19.0 | 18.9 | 19.4 | 19.9 | 18.5 | 19.0 | 19.0 | 19.5 | 20.0 |
| 8H | 4H | 18.5 | 19.1 | 18.9 | 19.5 | 20.0 | 18.5 | 19.1 | 19.0 | 19.6 | 20.1 |
| | 6H | 18.4 | 18.9 | 18.9 | 19.3 | 19.8 | 18.4 | 18.9 | 18.9 | 19.4 | 19.9 |
| | 8H | 18.3 | 18.8 | 18.8 | 19.2 | 19.8 | 18.4 | 18.8 | 18.9 | 19.3 | 19.8 |
| | 12H | 18.3 | 18.7 | 18.8 | 19.2 | 19.7 | 18.4 | 18.7 | 18.9 | 19.2 | 19.8 |
| 12H | 4H | 18.5 | 18.9 | 18.9 | 19.4 | 19.9 | 18.5 | 19.0 | 19.0 | 19.5 | 20.0 |
| | 6H | 18.4 | 18.8 | 18.9 | 19.2 | 19.8 | 18.4 | 18.8 | 18.9 | 19.3 | 19.8 |
| | 8H | 18.3 | 18.6 | 18.8 | 19.2 | 19.7 | 18.4 | 18.7 | 18.9 | 19.2 | 19.8 |

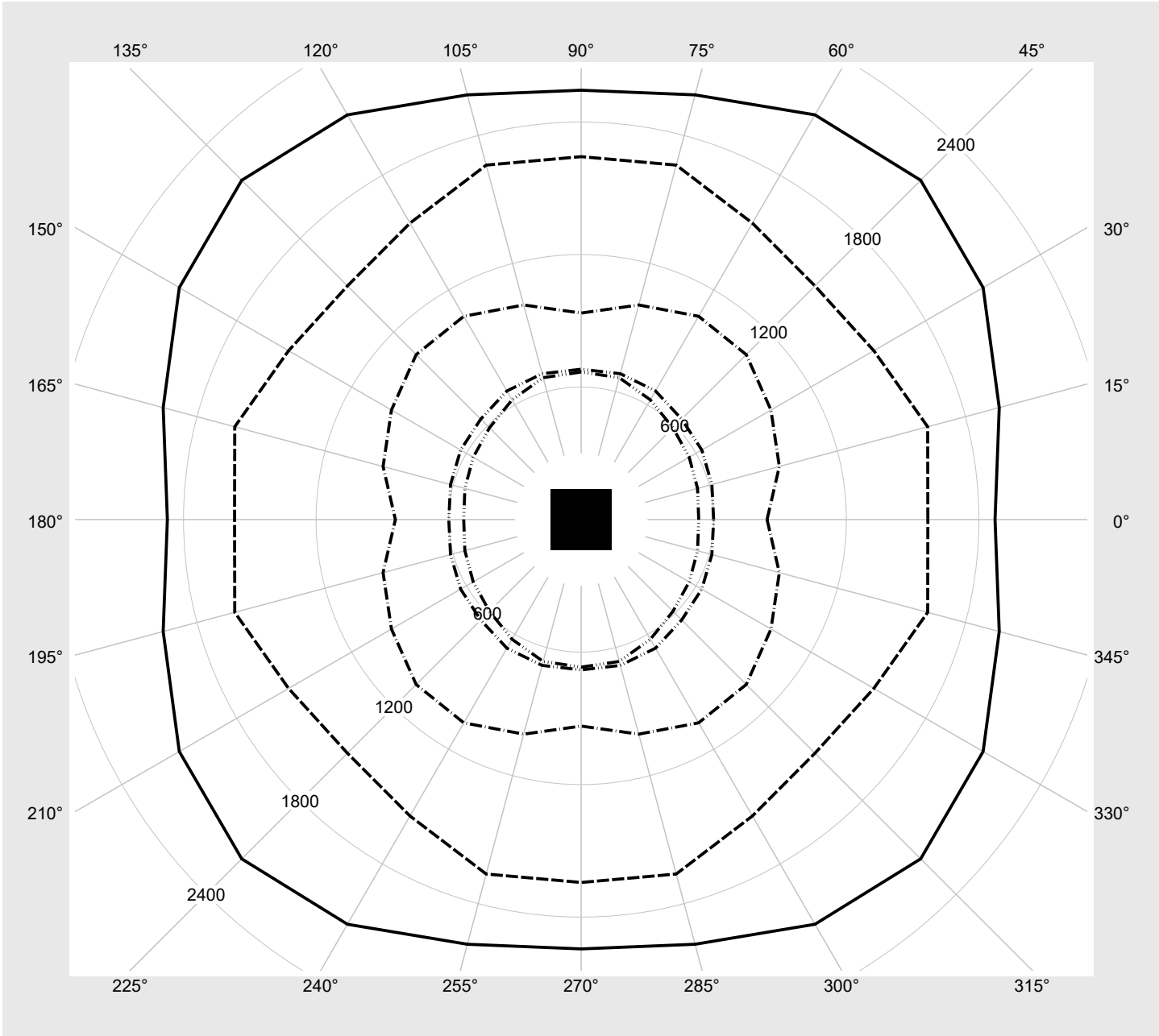
| | | | |
|-----------------|---------------------------------|-------------------------------|--------------------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | L = 294 B = 196 |
|-----------------|---------------------------------|-------------------------------|--------------------|

| | | | | | | | | |
|----------|----------|--------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------|
| C-planes | γ | 0° | 15° | 30° | 45° | 60° | 75° | 90° |
| | | 180° | 165° 195° 345° | 150° 210° 330° | 135° 225° 315° | 120° 240° 300° | 105° 255° 285° | 270° |
| | | Luminance in cd/m² | | | | | | |
| 45° | | 16312.8 | 17608.2 | 18939.7 | 19511.4 | 19435.4 | 18187.9 | 17848.1 |
| 50° | | 7726.0 | 8607.5 | 9918.7 | 10447.7 | 10362.4 | 8825.7 | 8469.4 |
| 55° | | 3567.6 | 4074.8 | 4863.0 | 5527.9 | 5099.1 | 4150.2 | 3893.9 |
| 60° | | 2405.4 | 2578.4 | 2978.8 | 3314.6 | 3025.6 | 2658.2 | 2586.3 |
| 65° | | 1873.1 | 1958.8 | 2100.5 | 2172.8 | 2115.9 | 1990.8 | 1944.1 |
| 70° | | 1568.9 | 1623.4 | 1529.3 | 1496.2 | 1549.8 | 1661.6 | 1643.3 |
| 75° | | 841.1 | 928.4 | 991.7 | 1056.3 | 1062.8 | 1005.9 | 935.1 |
| 80° | | 599.3 | 612.3 | 630.1 | 643.2 | 672.5 | 683.7 | 680.7 |
| 85° | | 531.8 | 545.2 | 564.4 | 587.4 | 625.9 | 665.2 | 668.1 |

Photometric test report

| | | |
|------------------------------------|---|--------------------------------------|
| Family Silica® 21 | Order number: 51MX6MTUT4W EAN: 4069025006561 | LP number 59273_164 |
|------------------------------------|---|--------------------------------------|

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



Photometric test report

| | | |
|-----------------------------|---|--------------------------------------|
| Family Silica® 21 | Order number: 51MX6MTUT4W EAN: 4069025006561 | LP number 59273_164 |
|-----------------------------|---|--------------------------------------|

| | | |
|-----------------------------|---------------------------------|---------------|
| 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 | 3720 | 34.8 |
| 95 | 237 | 251 | 3531 | 32.3 |
| 90 | 221 | 249 | 3347 | 30.1 |
| 85 | 206 | 246 | 3166 | 28.0 |
| 80 | 191 | 244 | 2977 | 25.8 |
| 75 | 177 | 241 | 2795 | 23.9 |
| 70 | 163 | 238 | 2606 | 22.1 |
| 65 | 149 | 234 | 2413 | 20.1 |
| 60 | 136 | 231 | 2225 | 18.4 |
| 55 | 124 | 228 | 2050 | 16.9 |
| 50 | 111 | 224 | 1854 | 15.2 |
| 45 | 99 | 219 | 1667 | 13.6 |
| 40 | 88 | 215 | 1494 | 12.3 |
| 35 | 76 | 210 | 1302 | 10.8 |
| 30 | 65 | 204 | 1123 | 9.5 |
| 25 | 53 | 197 | 924 | 7.9 |
| 20 | 42 | 188 | 741 | 6.6 |
| 15 | 31 | 177 | 554 | 5.3 |
| 10 | 20 | 161 | 367 | 4.1 |
| 5 | 9 | 132 | 179 | 2.7 |
| 3 | 4 | 102 | 93 | 2.0 |