
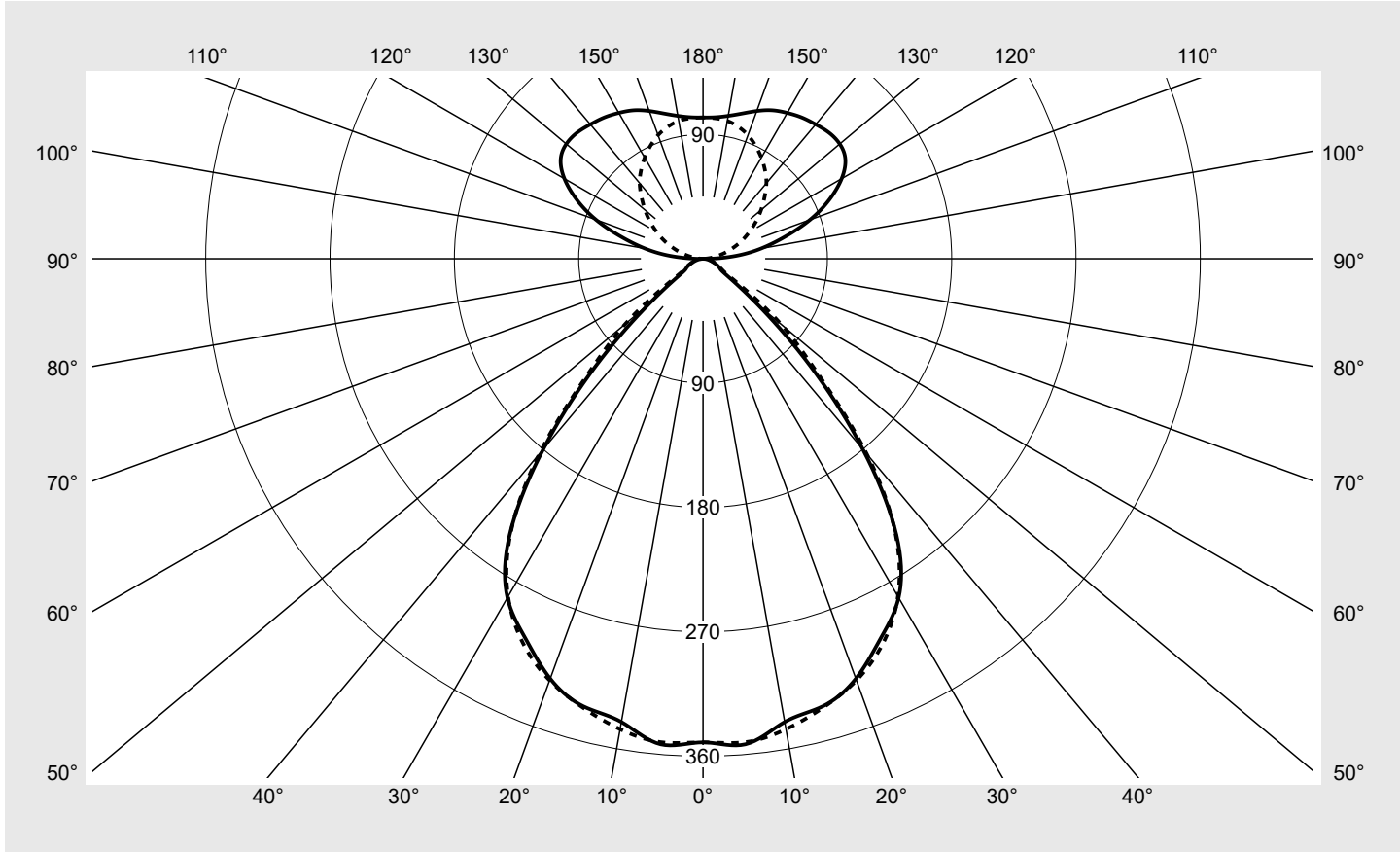


Photometric test report

| | | |
|---|--|--|
| Family Silica® 21  | Order number: 51MX33DA47SB EAN: 4058352888940 | LP number 59331_93 |
| | Version Suspended luminaire, with homogeneous illumination, prismatic cover, direct-/ indirect distribution, extremely wide distribution, UGR≤16 (L65≤3000cd/m²) | serial documentation 02.08.2023 |
| Lamps LED 4000 K CRI ≥ 80 | | |
| Controlgear ECG-DALI | | |
| Rated values Net luminous flux = 5910 lm Power consumption = 38.4 W Luminous efficacy = 153.9 lm/W | | |



Luminous intensity in cd/klm C180-0 C270-90 Imax: 353 cd/klm



| Classifications | |
|-----------------|-----------------------------------|
| DIN 5040 | C 6 2 |
| CIE | N1=78 N2=96 N3=99 N4=55 N5=100 |

| Luminaire light output ratios | |
|-------------------------------|--------|
| η_{LB} | 100.0% |
| ϕ_u | 55.4% |
| ϕ_o | 44.6% |

Measurement conditions
 DIN EN 13032 and DIN 5032

Photometric test report

| | | |
|--|--|------------------------------|
| Family Silica® 21 | Order number: 51MX33DA47SB EAN: 4058352888940 | LP number 59331_93 |
| 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° | 349.9 | 349.9 | 349.9 | 349.9 | 349.9 | 349.9 | 349.9 | 2.1 | 2.1 |
| 5° | 352.7 | 353.3 | 353.1 | 353.3 | 352.9 | 352.0 | 351.1 | 16.9 | 18.9 |
| 10° | 340.4 | 339.5 | 339.7 | 341.6 | 345.2 | 345.5 | 345.7 | 32.6 | 51.5 |
| 15° | 335.2 | 334.1 | 331.5 | 331.4 | 333.4 | 336.4 | 336.2 | 47.3 | 98.9 |
| 20° | 323.4 | 322.7 | 318.7 | 319.6 | 318.0 | 320.3 | 324.7 | 60.1 | 159.0 |
| 25° | 303.6 | 304.4 | 302.2 | 302.2 | 302.6 | 302.3 | 307.6 | 70.2 | 229.2 |
| 30° | 283.2 | 283.0 | 279.5 | 280.9 | 281.3 | 280.3 | 282.2 | 77.1 | 306.3 |
| 35° | 244.1 | 243.6 | 241.2 | 242.6 | 243.2 | 242.2 | 242.9 | 76.3 | 382.6 |
| 40° | 179.9 | 179.6 | 180.9 | 182.1 | 183.5 | 183.3 | 184.4 | 64.1 | 446.7 |
| 45° | 110.1 | 109.9 | 111.2 | 112.6 | 113.8 | 115.2 | 117.5 | 43.7 | 490.4 |
| 50° | 51.7 | 59.9 | 67.3 | 61.6 | 55.5 | 66.0 | 73.6 | 26.1 | 516.5 |
| 55° | 21.0 | 28.2 | 26.7 | 30.5 | 23.0 | 31.8 | 29.6 | 12.4 | 528.9 |
| 60° | 14.1 | 14.7 | 15.5 | 14.4 | 14.4 | 15.4 | 16.1 | 7.1 | 536.0 |
| 65° | 11.6 | 11.5 | 12.0 | 11.7 | 12.2 | 12.2 | 12.1 | 5.9 | 541.9 |
| 70° | 8.4 | 8.6 | 8.9 | 8.9 | 9.1 | 9.2 | 9.2 | 4.6 | 546.5 |
| 75° | 5.8 | 6.1 | 6.7 | 6.4 | 6.5 | 6.9 | 6.6 | 3.4 | 549.9 |
| 80° | 3.5 | 3.8 | 4.1 | 4.5 | 4.2 | 4.7 | 4.7 | 2.3 | 552.2 |
| 85° | 1.8 | 1.8 | 1.8 | 2.1 | 2.2 | 2.5 | 2.7 | 1.2 | 553.3 |
| 90° | 5.2 | 5.0 | 5.3 | 5.2 | 3.1 | 1.1 | 0.4 | 2.0 | 555.4 |
| 95° | 23.9 | 24.4 | 26.2 | 24.8 | 15.9 | 8.2 | 4.2 | 10.3 | 565.7 |
| 100° | 42.8 | 43.9 | 44.3 | 38.8 | 26.0 | 14.7 | 9.7 | 17.5 | 583.2 |
| 105° | 61.3 | 62.6 | 61.4 | 52.4 | 35.9 | 22.2 | 16.3 | 24.1 | 607.3 |
| 110° | 82.4 | 82.7 | 77.5 | 64.5 | 46.0 | 30.0 | 23.3 | 30.4 | 637.7 |
| 115° | 100.7 | 99.8 | 92.0 | 75.7 | 55.8 | 37.9 | 31.1 | 35.4 | 673.0 |
| 120° | 115.9 | 114.0 | 103.9 | 84.8 | 64.9 | 45.6 | 38.7 | 38.8 | 711.8 |
| 125° | 125.7 | 122.3 | 111.1 | 93.1 | 72.6 | 52.9 | 46.8 | 40.3 | 752.1 |
| 130° | 129.2 | 126.3 | 114.5 | 98.0 | 78.5 | 60.4 | 54.8 | 39.9 | 792.0 |
| 135° | 129.0 | 126.3 | 115.8 | 101.3 | 83.2 | 67.4 | 62.9 | 38.1 | 830.1 |
| 140° | 126.9 | 124.9 | 116.2 | 103.6 | 87.1 | 74.0 | 71.4 | 35.5 | 865.6 |
| 145° | 124.8 | 123.4 | 116.1 | 105.0 | 90.7 | 80.2 | 78.2 | 32.3 | 897.9 |
| 150° | 121.9 | 121.3 | 114.8 | 104.9 | 93.7 | 86.1 | 84.5 | 28.5 | 926.4 |
| 155° | 118.5 | 118.2 | 111.9 | 104.4 | 96.0 | 91.3 | 90.1 | 24.2 | 950.6 |
| 160° | 113.8 | 113.5 | 108.5 | 103.6 | 98.0 | 95.4 | 95.1 | 19.5 | 970.1 |
| 165° | 108.8 | 108.2 | 105.6 | 102.3 | 100.0 | 98.6 | 98.8 | 14.6 | 984.7 |
| 170° | 105.0 | 104.5 | 103.8 | 102.4 | 101.4 | 101.2 | 101.3 | 9.8 | 994.5 |
| 175° | 102.8 | 102.7 | 102.1 | 101.9 | 102.0 | 102.0 | 102.0 | 4.9 | 999.4 |
| 180° | 102.2 | 102.2 | 102.2 | 102.2 | 102.2 | 102.2 | 102.2 | 0.6 | 1000.0 |

Photometric test report

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| Family Silica® 21 | Order number: 51MX33DA47SB EAN: 4058352888940 | LP number 59331_93 |
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|------------------|----------------------|---------------|
| 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 | 15.4 | 16.3 | 16.3 | 17.2 | 18.3 | 15.6 | 16.5 | 16.5 | 17.4 | 18.5 |
| | 3H | 15.3 | 16.1 | 16.2 | 17.0 | 18.1 | 15.6 | 16.3 | 16.5 | 17.2 | 18.4 |
| | 4H | 15.3 | 16.0 | 16.2 | 16.9 | 18.1 | 15.6 | 16.3 | 16.5 | 17.2 | 18.4 |
| | 6H | 15.2 | 15.8 | 16.1 | 16.8 | 18.0 | 15.5 | 16.2 | 16.5 | 17.1 | 18.3 |
| | 8H | 15.1 | 15.7 | 16.1 | 16.7 | 17.9 | 15.4 | 16.0 | 16.4 | 17.0 | 18.2 |
| | 12H | 15.0 | 15.6 | 16.0 | 16.5 | 17.8 | 15.5 | 16.0 | 16.4 | 16.9 | 18.2 |
| 4H | 2H | 15.2 | 15.9 | 16.1 | 16.8 | 17.9 | 15.3 | 16.0 | 16.2 | 16.9 | 18.1 |
| | 3H | 15.2 | 15.7 | 16.1 | 16.7 | 17.9 | 15.4 | 15.9 | 16.3 | 16.9 | 18.1 |
| | 4H | 15.2 | 15.7 | 16.1 | 16.6 | 17.9 | 15.4 | 15.9 | 16.4 | 16.9 | 18.1 |
| | 6H | 15.1 | 15.6 | 16.1 | 16.6 | 17.8 | 15.5 | 15.9 | 16.4 | 16.9 | 18.1 |
| | 8H | 15.1 | 15.5 | 16.1 | 16.5 | 17.8 | 15.5 | 15.9 | 16.5 | 16.9 | 18.1 |
| | 12H | 15.0 | 15.4 | 16.0 | 16.4 | 17.7 | 15.5 | 15.8 | 16.5 | 16.8 | 18.1 |
| 8H | 4H | 15.0 | 15.4 | 16.0 | 16.4 | 17.7 | 15.2 | 15.6 | 16.2 | 16.6 | 17.9 |
| | 6H | 15.1 | 15.5 | 16.1 | 16.4 | 17.7 | 15.4 | 15.7 | 16.4 | 16.7 | 18.0 |
| | 8H | 15.1 | 15.4 | 16.1 | 16.4 | 17.7 | 15.5 | 15.8 | 16.5 | 16.8 | 18.1 |
| | 12H | 15.1 | 15.3 | 16.1 | 16.3 | 17.7 | 15.5 | 15.8 | 16.6 | 16.8 | 18.1 |
| 12H | 4H | 15.0 | 15.3 | 16.0 | 16.3 | 17.6 | 15.1 | 15.5 | 16.2 | 16.5 | 17.8 |
| | 6H | 15.1 | 15.3 | 16.1 | 16.3 | 17.6 | 15.3 | 15.6 | 16.3 | 16.6 | 17.9 |
| | 8H | 15.1 | 15.3 | 16.1 | 16.3 | 17.6 | 15.4 | 15.7 | 16.4 | 16.7 | 18.0 |

| | | | |
|------------------------|---|--------------------------------------|----------------------------------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | L = 1200 B = 50 |
|------------------------|---|--------------------------------------|----------------------------------|

| 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° | 15337.5 | 15304.3 | 15496.3 | 15678.9 | 15848.6 | 16051.1 | 16365.1 | | |
| 50° | 7920.8 | 9176.2 | 10319.4 | 9444.3 | 8511.2 | 10108.4 | 11284.7 | | |
| 55° | 3601.3 | 4851.2 | 4582.4 | 5234.8 | 3953.7 | 5459.5 | 5074.6 | | |
| 60° | 2787.2 | 2892.4 | 3057.4 | 2834.0 | 2844.5 | 3025.1 | 3162.0 | | |
| 65° | 2707.8 | 2686.6 | 2794.5 | 2726.0 | 2841.6 | 2837.4 | 2825.1 | | |
| 70° | 2422.6 | 2467.8 | 2567.8 | 2567.8 | 2608.1 | 2638.0 | 2641.2 | | |
| 75° | 2224.5 | 2308.9 | 2544.5 | 2430.0 | 2485.9 | 2613.0 | 2527.4 | | |
| 80° | 2009.2 | 2128.3 | 2347.2 | 2554.8 | 2369.9 | 2643.9 | 2654.7 | | |
| 85° | 1984.6 | 1997.0 | 2072.7 | 2395.9 | 2519.1 | 2872.9 | 2994.9 | | |

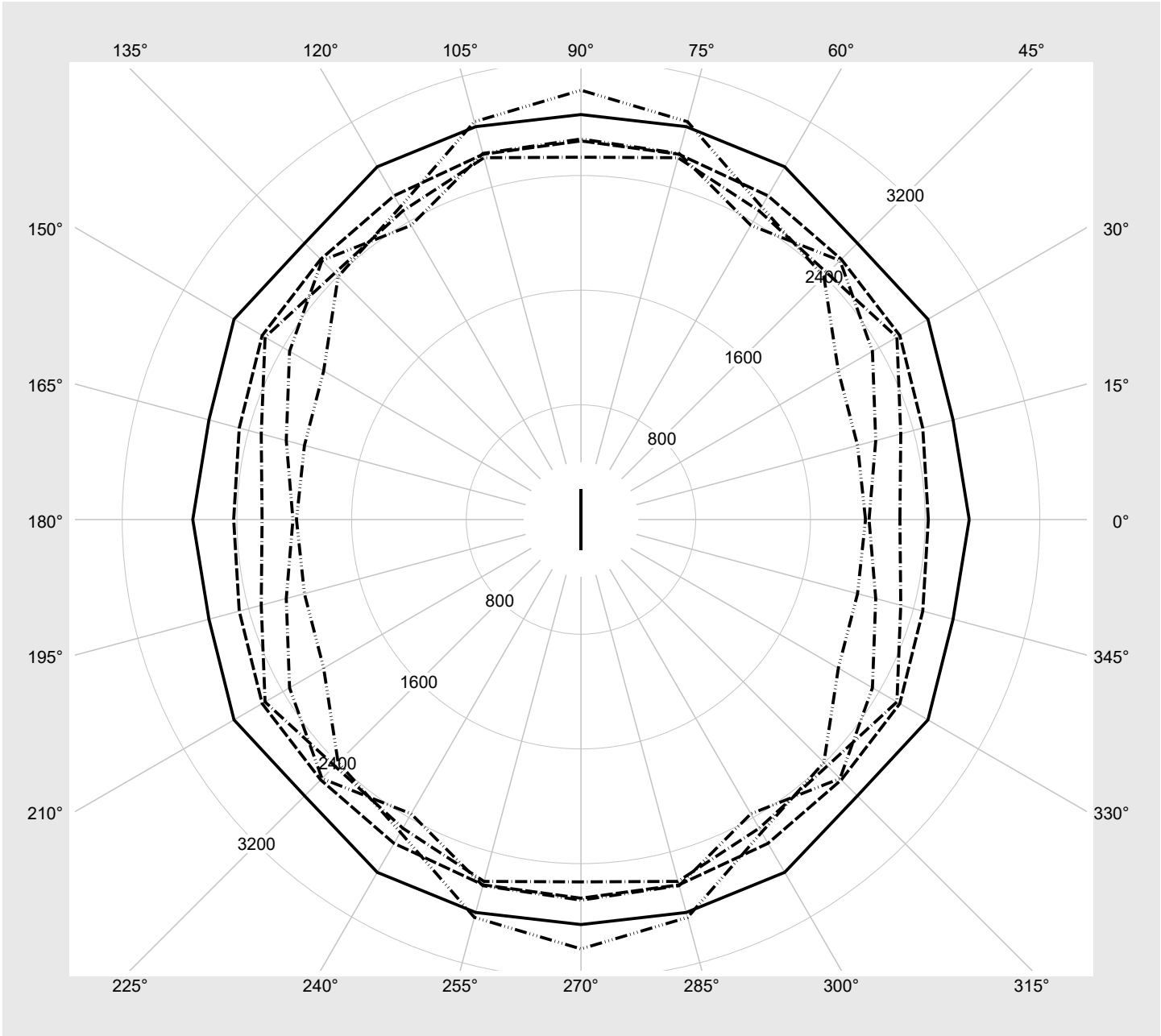
Photometric test report

| | | |
|------------------------------------|--|-------------------------------------|
| Family Silica® 21 | Order number: 51MX33DA47SB EAN: 4058352888940 | LP number 59331_93 |
|------------------------------------|--|-------------------------------------|

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: 51MX33DA47SB EAN: 4058352888940 | LP number 59331_93 |
|-----------------------------|--|------------------------------|

| | | |
|-----------------------------|---------------------------------|---------------|
| 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 | 5910 | 38.4 |
| 95 | 241 | 252 | 5621 | 36.4 |
| 90 | 228 | 250 | 5330 | 34.4 |
| 85 | 214 | 248 | 5015 | 32.4 |
| 80 | 201 | 245 | 4721 | 30.4 |
| 75 | 188 | 243 | 4426 | 28.5 |
| 70 | 175 | 240 | 4129 | 26.5 |
| 65 | 162 | 238 | 3830 | 24.5 |
| 60 | 150 | 235 | 3553 | 22.9 |
| 55 | 137 | 231 | 3252 | 21.1 |
| 50 | 124 | 228 | 2948 | 19.4 |
| 45 | 112 | 224 | 2668 | 17.7 |
| 40 | 99 | 219 | 2361 | 15.8 |
| 35 | 87 | 215 | 2077 | 14.0 |
| 30 | 74 | 209 | 1767 | 12.1 |
| 25 | 62 | 202 | 1481 | 10.3 |
| 20 | 49 | 194 | 1170 | 8.4 |
| 15 | 37 | 183 | 882 | 6.6 |
| 10 | 25 | 169 | 592 | 4.7 |
| 6 | 14 | 148 | 326 | 2.9 |