

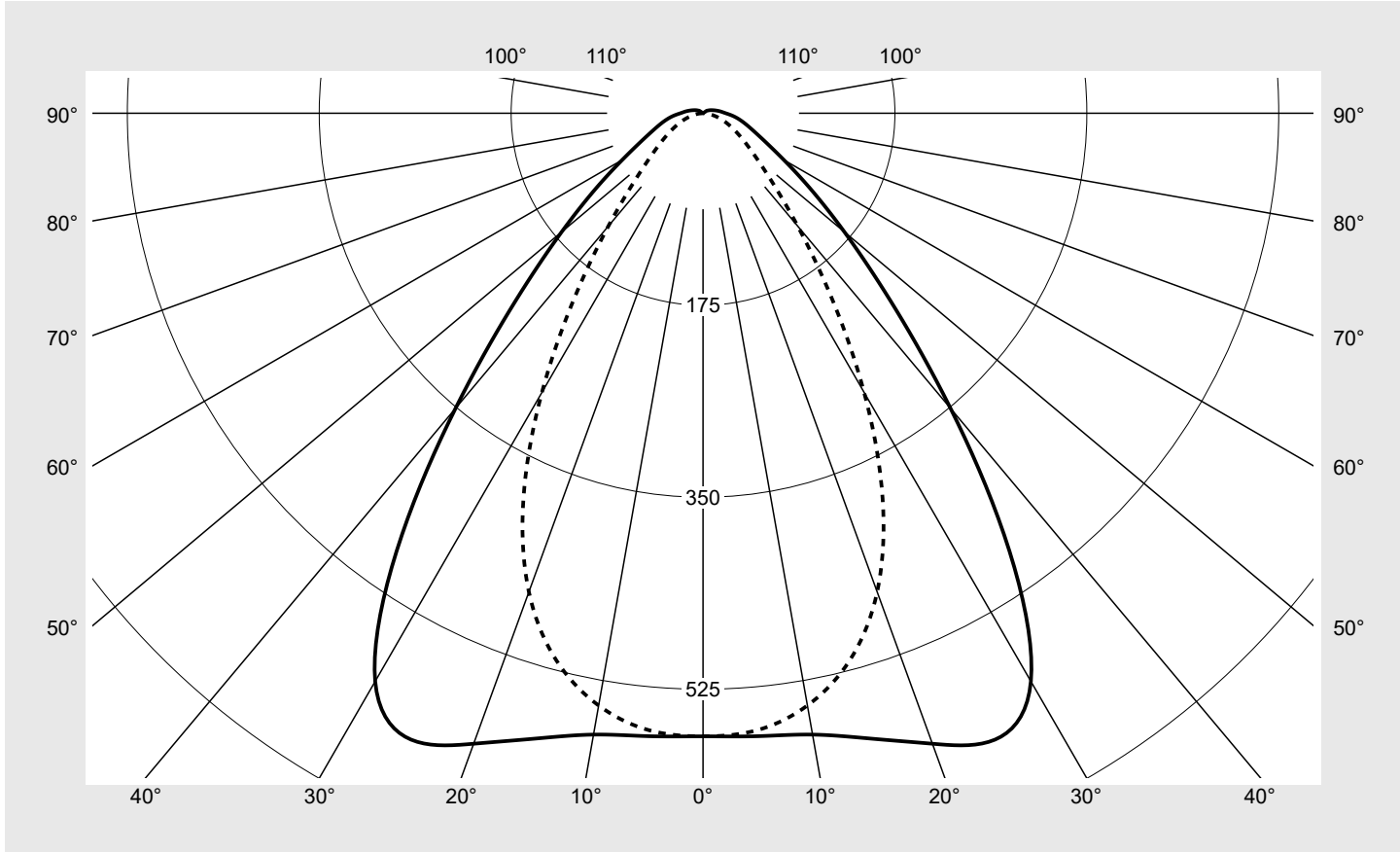


Photometric test report

| | | |
|--|---|--|
| Family Licross® 21 Protected | Order number: 52TP12DN4E5M3S EAN: 4058352908402 | LP number 58523_188 |
|  | Version prismatic cover, frosted, wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Setting AC-mode Rated values Net luminous flux = 14690 lm Power consumption = 88.7 W Luminous efficacy = 165.6 lm/W | serial documentation 17.08.2023 |
| |  | |

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 630 cd/klm**



| Classifications | |
|-----------------|-----------------------------------|
| DIN 5040 | A 5 1 |
| CIE | N1=70 N2=91 N3=97 N4=98 N5=100 |

| Luminaire light output ratios | |
|-------------------------------|--------|
| η_{LB} | 100.0% |
| ϕ_u | 98.3% |
| ϕ_o | 1.7% |

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

Photometric test report

| | | |
|---|--|-----------------------------------|
| Family Licross® 21 Protected | Order number: 52TP12DN4E5M3S EAN: 4058352908402 | LP number 58523_188 |
| 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° | 568.0 | 568.0 | 568.0 | 568.0 | 568.0 | 568.0 | 568.0 | 3.4 | 3.4 |
| 5° | 570.0 | 568.0 | 563.9 | 564.4 | 565.6 | 564.2 | 564.6 | 27.0 | 30.4 |
| 10° | 575.1 | 572.9 | 563.4 | 557.9 | 553.3 | 549.0 | 548.2 | 53.3 | 83.7 |
| 15° | 590.1 | 586.0 | 566.8 | 548.5 | 532.2 | 519.9 | 516.5 | 78.2 | 161.9 |
| 20° | 611.6 | 603.6 | 568.7 | 531.0 | 496.5 | 471.9 | 464.3 | 100.3 | 262.2 |
| 25° | 630.0 | 617.6 | 564.2 | 499.9 | 441.6 | 401.0 | 387.5 | 117.1 | 379.3 |
| 30° | 598.0 | 589.4 | 536.5 | 452.4 | 368.0 | 311.9 | 293.8 | 123.5 | 502.8 |
| 35° | 487.1 | 490.1 | 463.2 | 383.1 | 284.6 | 222.1 | 203.0 | 114.7 | 617.4 |
| 40° | 351.1 | 360.8 | 359.1 | 297.2 | 205.7 | 150.3 | 134.3 | 94.9 | 712.3 |
| 45° | 241.7 | 250.7 | 257.1 | 211.9 | 140.4 | 100.6 | 89.9 | 72.8 | 785.1 |
| 50° | 168.3 | 174.0 | 178.9 | 144.5 | 94.4 | 69.8 | 63.7 | 54.4 | 839.5 |
| 55° | 118.9 | 121.8 | 123.3 | 97.4 | 64.6 | 50.4 | 47.5 | 40.5 | 880.0 |
| 60° | 85.1 | 85.8 | 84.4 | 66.1 | 45.7 | 37.4 | 36.1 | 30.1 | 910.0 |
| 65° | 63.8 | 62.6 | 58.2 | 45.7 | 33.4 | 28.1 | 27.2 | 22.6 | 932.7 |
| 70° | 50.4 | 47.7 | 40.8 | 32.1 | 24.8 | 20.7 | 19.9 | 17.3 | 949.9 |
| 75° | 41.3 | 37.6 | 29.5 | 22.7 | 17.9 | 14.5 | 13.5 | 13.2 | 963.2 |
| 80° | 34.0 | 30.0 | 21.9 | 15.9 | 12.4 | 9.4 | 8.0 | 10.0 | 973.1 |
| 85° | 27.2 | 23.7 | 16.4 | 11.2 | 8.0 | 5.3 | 3.6 | 7.3 | 980.4 |
| 90° | 20.7 | 17.9 | 12.0 | 7.4 | 4.6 | 2.2 | 0.4 | 5.0 | 985.4 |
| 95° | 16.6 | 14.7 | 10.2 | 6.3 | 3.6 | 1.3 | 0.3 | 4.0 | 989.4 |
| 100° | 13.2 | 11.9 | 8.5 | 5.2 | 2.7 | 0.8 | 0.3 | 3.2 | 992.6 |
| 105° | 10.4 | 9.5 | 6.9 | 4.1 | 1.9 | 0.4 | 0.3 | 2.5 | 995.1 |
| 110° | 8.2 | 7.4 | 5.5 | 3.1 | 1.2 | 0.3 | 0.3 | 1.9 | 997.0 |
| 115° | 6.5 | 5.8 | 4.2 | 2.2 | 0.7 | 0.4 | 0.4 | 1.4 | 998.4 |
| 120° | 4.9 | 4.3 | 3.0 | 1.4 | 0.6 | 0.5 | 0.5 | 1.0 | 999.4 |
| 125° | 3.5 | 3.0 | 2.0 | 0.9 | 0.6 | 0.5 | 0.5 | 0.7 | 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

| | | |
|--|--|-------------------------------|
| Family Licross® 21 Protected | Order number: 52TP12DN4E5M3S EAN: 4058352908402 | LP number 58523_188 |
|--|--|-------------------------------|

| | | |
|------------------|----------------------|---------------|
| 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 | 23.3 | 24.8 | 23.7 | 25.1 | 25.4 | 19.1 | 20.6 | 19.5 | 20.9 | 21.2 |
| | 3H | 23.9 | 25.2 | 24.3 | 25.5 | 25.9 | 19.6 | 20.9 | 19.9 | 21.2 | 21.6 |
| | 4H | 24.3 | 25.4 | 24.6 | 25.8 | 26.2 | 19.8 | 21.0 | 20.1 | 21.3 | 21.7 |
| | 6H | 24.7 | 25.7 | 25.1 | 26.1 | 26.5 | 19.9 | 21.0 | 20.3 | 21.4 | 21.8 |
| | 8H | 25.0 | 25.9 | 25.4 | 26.3 | 26.7 | 20.0 | 21.0 | 20.4 | 21.4 | 21.8 |
| | 12H | 25.2 | 26.1 | 25.6 | 26.4 | 26.9 | 20.0 | 21.0 | 20.5 | 21.4 | 21.8 |
| 4H | 2H | 23.3 | 24.6 | 23.7 | 24.9 | 25.3 | 19.8 | 21.0 | 20.2 | 21.3 | 21.7 |
| | 3H | 24.1 | 25.1 | 24.5 | 25.5 | 25.9 | 20.4 | 21.4 | 20.8 | 21.8 | 22.2 |
| | 4H | 24.5 | 25.4 | 25.0 | 25.9 | 26.3 | 20.6 | 21.5 | 21.1 | 21.9 | 22.4 |
| | 6H | 25.1 | 25.9 | 25.6 | 26.3 | 26.8 | 20.8 | 21.6 | 21.3 | 22.1 | 22.5 |
| | 8H | 25.4 | 26.1 | 25.9 | 26.6 | 27.0 | 20.9 | 21.7 | 21.4 | 22.1 | 22.6 |
| | 12H | 25.8 | 26.4 | 26.3 | 26.8 | 27.3 | 21.0 | 21.6 | 21.5 | 22.1 | 22.6 |
| 8H | 4H | 24.5 | 25.3 | 25.0 | 25.7 | 26.2 | 20.9 | 21.6 | 21.4 | 22.1 | 22.6 |
| | 6H | 25.2 | 25.8 | 25.7 | 26.3 | 26.8 | 21.3 | 21.8 | 21.8 | 22.3 | 22.8 |
| | 8H | 25.6 | 26.1 | 26.1 | 26.6 | 27.1 | 21.4 | 21.9 | 21.9 | 22.4 | 22.9 |
| | 12H | 26.1 | 26.5 | 26.6 | 27.0 | 27.6 | 21.5 | 22.0 | 22.0 | 22.5 | 23.0 |
| 12H | 4H | 24.5 | 25.2 | 25.0 | 25.6 | 26.1 | 21.1 | 21.6 | 21.5 | 22.1 | 22.6 |
| | 6H | 25.2 | 25.7 | 25.7 | 26.2 | 26.7 | 21.4 | 21.9 | 21.9 | 22.4 | 22.9 |
| | 8H | 25.6 | 26.1 | 26.2 | 26.6 | 27.1 | 21.6 | 22.0 | 22.1 | 22.5 | 23.0 |

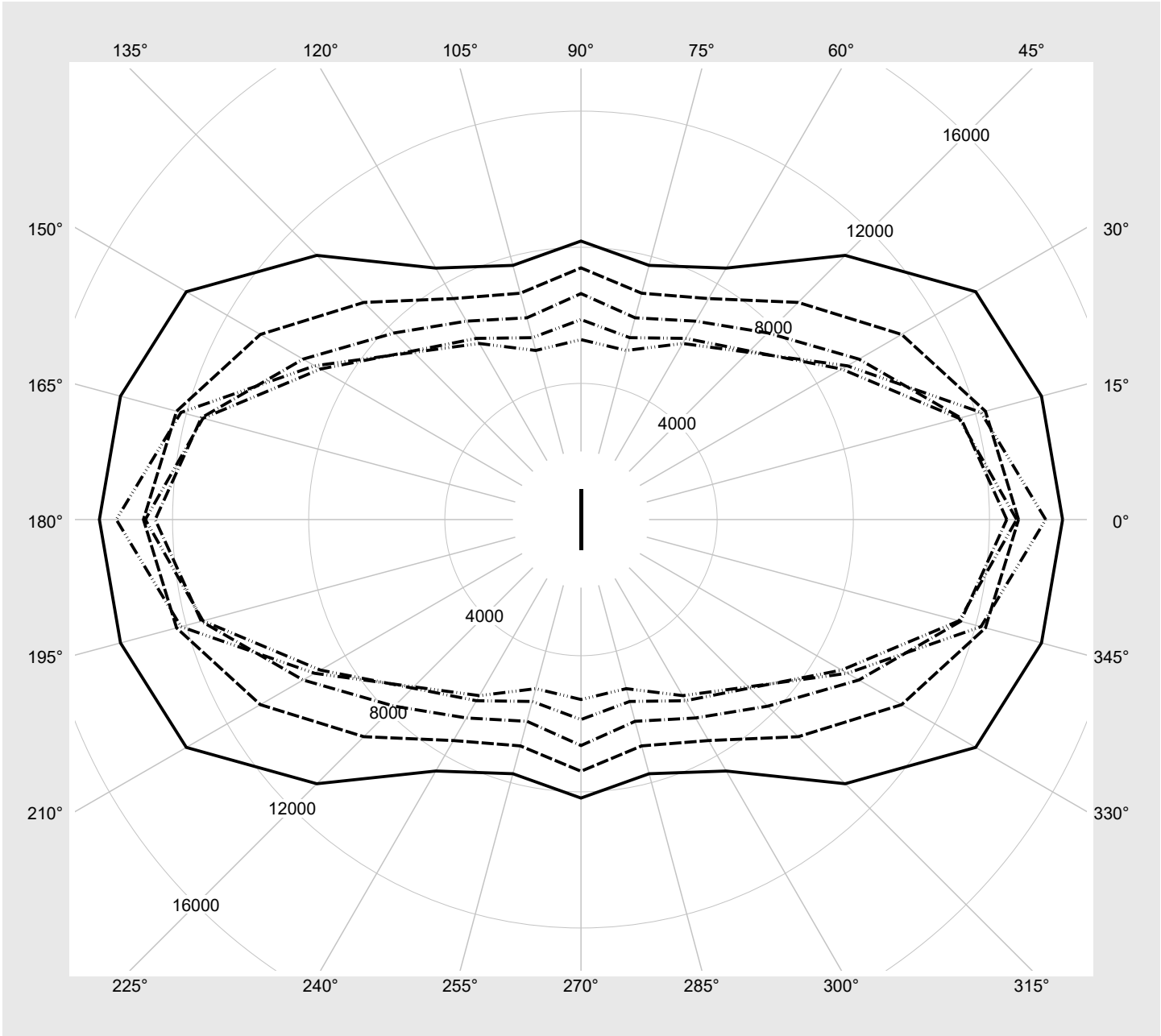
| | | | | | |
|------------------------|---|--------------------------------------|-----------------|-------------------|---------------------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | L = 1480 | H(C0) = 13 | H(C180) = 13 |
| | | | B = 78 | H(C90) = 0 | H(C270) = 0 |

| | | | | | | | | |
|--------------------|----------|------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------|
| C-planes | γ | 0° 180° | 15° | 30° | 45° | 60° | 75° | 90° 270° |
| | | | 165° 195° 345° | 150° 210° 330° | 135° 225° 315° | 120° 240° 300° | 105° 255° 285° | |
| Luminance in cd/m² | | | | | | | | |
| 45° | | 37284.5 | 38854.0 | 40438.1 | 34107.6 | 23321.4 | 17356.4 | 16184.7 |
| 50° | | 27798.9 | 28905.2 | 30226.8 | 25083.2 | 16996.9 | 13133.6 | 12614.0 |
| 55° | | 21303.3 | 21978.8 | 22688.0 | 18492.7 | 12805.1 | 10526.7 | 10543.6 |
| 60° | | 16805.3 | 17083.8 | 17179.5 | 13975.4 | 10160.7 | 8852.0 | 9177.9 |
| 65° | | 14149.1 | 14006.1 | 13388.8 | 10976.9 | 8531.1 | 7731.4 | 8182.5 |
| 70° | | 12854.7 | 12300.6 | 10877.6 | 9022.5 | 7497.2 | 6884.6 | 7394.7 |
| 75° | | 12509.2 | 11548.6 | 9428.0 | 7754.9 | 6731.0 | 6136.8 | 6639.4 |
| 80° | | 12799.7 | 11498.2 | 8843.8 | 7001.5 | 6146.3 | 5532.7 | 5875.7 |
| 85° | | 13652.6 | 12164.8 | 9034.3 | 6949.9 | 5973.3 | 5143.8 | 5286.9 |

Photometric test report

| | | |
|--|--|--------------------------------------|
| Family Licross® 21 Protected | Order number: 52TP12DN4E5M3S EAN: 4058352908402 | LP number 58523_188 |
|--|--|--------------------------------------|

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



Photometric test report

| | | |
|--|--|--------------------------------------|
| Family Licross® 21 Protected | Order number: 52TP12DN4E5M3S EAN: 4058352908402 | LP number 58523_188 |
|--|--|--------------------------------------|

| | | |
|-----------------------------|---------------------------------|---------------|
| 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 | 14690 | 88.7 |
| 95 | 240 | 252 | 13945 | 83.9 |
| 90 | 227 | 250 | 13245 | 79.6 |
| 85 | 213 | 248 | 12484 | 74.9 |
| 80 | 200 | 245 | 11771 | 70.6 |
| 75 | 186 | 243 | 10993 | 66.0 |
| 70 | 173 | 240 | 10264 | 61.8 |
| 65 | 160 | 237 | 9527 | 57.5 |
| 60 | 148 | 234 | 8841 | 53.6 |
| 55 | 135 | 231 | 8094 | 49.3 |
| 50 | 122 | 227 | 7340 | 45.2 |
| 45 | 110 | 223 | 6637 | 41.3 |
| 40 | 97 | 219 | 5869 | 37.1 |
| 35 | 85 | 214 | 5155 | 33.3 |
| 30 | 72 | 208 | 4378 | 29.3 |
| 25 | 60 | 201 | 3654 | 25.4 |
| 20 | 48 | 193 | 2925 | 21.7 |
| 15 | 36 | 182 | 2191 | 17.9 |
| 10 | 24 | 168 | 1457 | 14.1 |
| 5 | 12 | 142 | 715 | 10.4 |
| 1 | 4 | 102 | 217 | 8.1 |