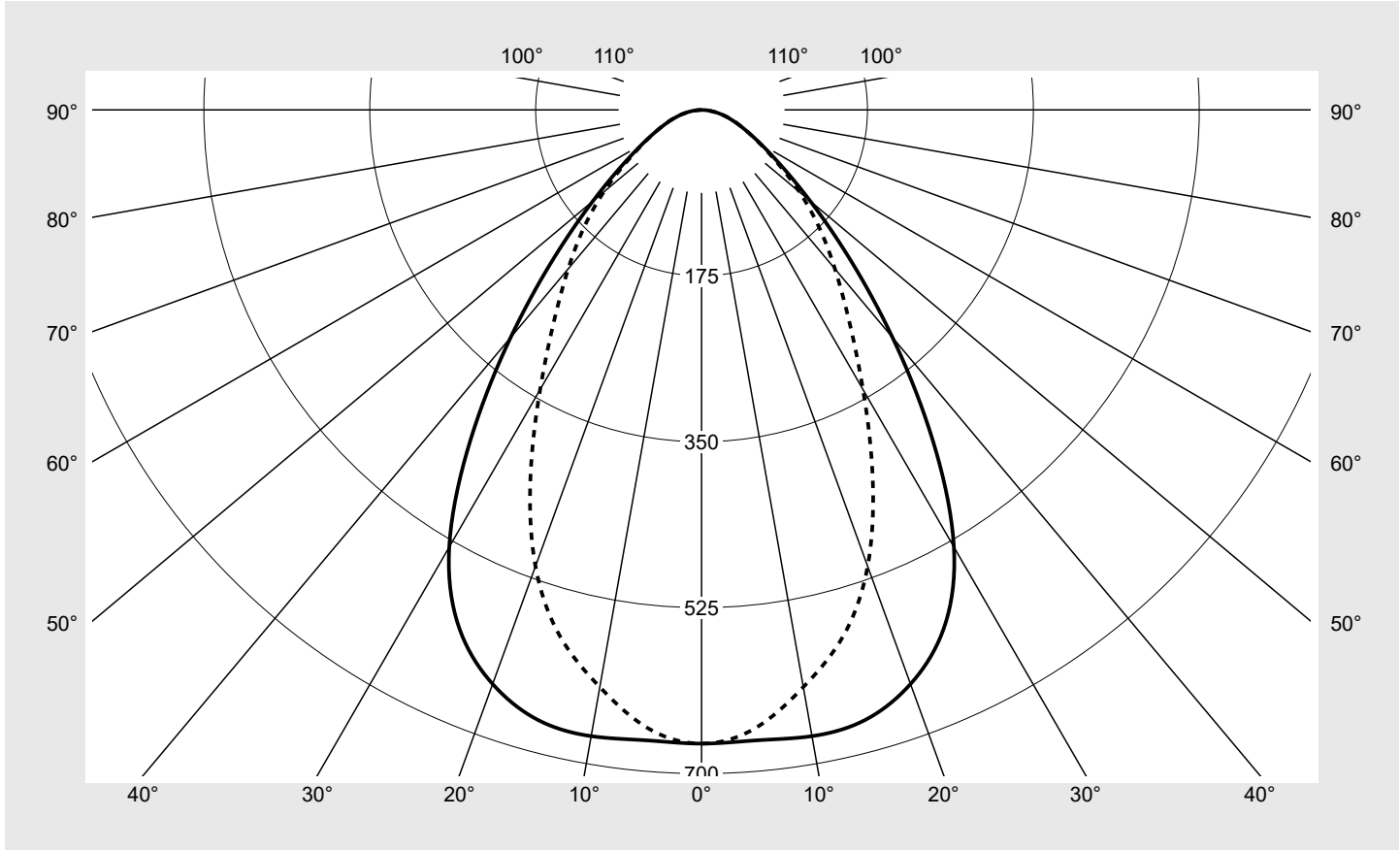


Photometric test report

| | | |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| Family Licross® 21 Recessed | Order number: 52TL12DN195G EAN: 4058352971253 | LP number 59101_352 |
| | Version cover frosted, wide distribution, high visual comfort Lamps LED 3500 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 9950 lm Power consumption = 58.0 W Luminous efficacy = 171.6 lm/W | serial documentation 28.09.2023 |



Luminous intensity in cd/klm C180-0 C270-90 **Imax: 671 cd/klm**



| Classifications | |
|-----------------|------------------------------------|
| DIN 5040 | A 6 0 |
| CIE | N1=72 N2=92 N3=99 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

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|-------------------------------------------------|----------------------------------------------------------------|--------------------------------------|
| Family Licross® 21 Recessed | Order number: 52TL12DN195G EAN: 4058352971253 | LP number 59101_352 |
| Table of values for luminous intensities | | Maximum luminous intensity |
| | | sITeco |

| C-planes γ | 0° | 15° | 30° | 45° | 60° | 75° | 90° | Phi-zone | Total Phi-zone |
|------------------------------|-------|----------------------|----------------------|----------------------|----------------------|----------------------|-------|-------------------------|-------------------|
| | 180° | 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° | 668.4 | 668.4 | 668.4 | 668.4 | 668.4 | 668.4 | 668.4 | 4.0 | 4.0 |
| 5° | 667.5 | 664.4 | 657.4 | 655.8 | 655.7 | 654.2 | 654.4 | 31.4 | 35.4 |
| 10° | 670.7 | 665.0 | 649.1 | 636.1 | 625.3 | 618.7 | 618.1 | 60.9 | 96.3 |
| 15° | 666.2 | 657.2 | 632.9 | 612.0 | 594.0 | 578.5 | 575.5 | 87.4 | 183.7 |
| 20° | 644.4 | 632.9 | 606.9 | 585.4 | 554.6 | 522.7 | 512.3 | 108.8 | 292.5 |
| 25° | 604.1 | 590.6 | 566.7 | 541.2 | 494.5 | 444.9 | 427.0 | 121.8 | 414.2 |
| 30° | 532.4 | 517.7 | 496.3 | 466.1 | 413.9 | 359.9 | 340.6 | 122.9 | 537.1 |
| 35° | 425.0 | 409.7 | 387.0 | 361.9 | 325.4 | 286.0 | 271.1 | 111.0 | 648.1 |
| 40° | 313.4 | 295.8 | 270.7 | 255.1 | 246.8 | 229.4 | 218.8 | 91.8 | 739.9 |
| 45° | 219.2 | 200.3 | 175.7 | 171.1 | 181.8 | 184.7 | 175.5 | 71.8 | 811.7 |
| 50° | 149.7 | 132.6 | 112.6 | 116.3 | 133.0 | 145.6 | 134.9 | 54.8 | 866.5 |
| 55° | 102.7 | 89.1 | 74.7 | 81.5 | 98.1 | 107.9 | 98.1 | 41.3 | 907.7 |
| 60° | 72.4 | 62.1 | 51.3 | 58.3 | 71.8 | 76.5 | 71.0 | 31.0 | 938.7 |
| 65° | 52.1 | 44.3 | 35.9 | 41.6 | 51.4 | 54.2 | 52.1 | 23.1 | 961.9 |
| 70° | 37.6 | 31.7 | 24.7 | 29.1 | 35.6 | 38.4 | 38.3 | 16.9 | 978.8 |
| 75° | 26.0 | 21.3 | 16.2 | 19.0 | 22.9 | 25.9 | 26.8 | 11.6 | 990.4 |
| 80° | 16.1 | 12.5 | 9.2 | 10.4 | 12.6 | 14.8 | 15.7 | 6.8 | 997.3 |
| 85° | 7.0 | 5.4 | 3.8 | 4.1 | 4.8 | 5.7 | 5.8 | 2.7 | 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 Licross® 21 Recessed | Order number: 52TL12DN195G EAN: 4058352971253 | LP number 59101_352 |
|---------------------------------------|----------------------------------------------------------------|-------------------------------|

| | | |
|------------------|----------------------|---------------|
| 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 | 21.7 | 23.2 | 22.1 | 23.5 | 23.8 | 21.7 | 23.1 | 22.0 | 23.4 | 23.7 |
| | 3H | 22.3 | 23.6 | 22.7 | 23.9 | 24.3 | 22.5 | 23.7 | 22.8 | 24.1 | 24.4 |
| | 4H | 22.6 | 23.8 | 23.0 | 24.1 | 24.5 | 22.8 | 24.0 | 23.2 | 24.3 | 24.7 |
| | 6H | 22.8 | 23.9 | 23.3 | 24.3 | 24.7 | 23.0 | 24.1 | 23.5 | 24.5 | 24.9 |
| | 8H | 23.0 | 24.0 | 23.5 | 24.3 | 24.8 | 23.2 | 24.2 | 23.6 | 24.5 | 24.9 |
| 12H | 23.1 | 24.0 | 23.5 | 24.4 | 24.8 | 23.2 | 24.1 | 23.7 | 24.5 | 24.9 | |
| 4H | 2H | 21.9 | 23.1 | 22.3 | 23.4 | 23.8 | 21.9 | 23.0 | 22.3 | 23.4 | 23.8 |
| | 3H | 22.6 | 23.5 | 23.0 | 23.9 | 24.3 | 22.8 | 23.8 | 23.2 | 24.2 | 24.6 |
| | 4H | 22.9 | 23.8 | 23.3 | 24.2 | 24.6 | 23.3 | 24.1 | 23.7 | 24.5 | 25.0 |
| | 6H | 23.2 | 24.0 | 23.7 | 24.4 | 24.9 | 23.6 | 24.4 | 24.1 | 24.8 | 25.3 |
| | 8H | 23.4 | 24.0 | 23.8 | 24.5 | 25.0 | 23.8 | 24.4 | 24.2 | 24.9 | 25.4 |
| 12H | 23.5 | 24.1 | 24.0 | 24.5 | 25.0 | 23.8 | 24.4 | 24.3 | 24.9 | 25.4 | |
| 8H | 4H | 23.0 | 23.7 | 23.5 | 24.1 | 24.6 | 23.3 | 24.0 | 23.8 | 24.4 | 24.9 |
| | 6H | 23.3 | 23.9 | 23.8 | 24.4 | 24.9 | 23.8 | 24.3 | 24.3 | 24.8 | 25.3 |
| | 8H | 23.5 | 24.0 | 24.0 | 24.5 | 25.0 | 23.9 | 24.4 | 24.4 | 24.9 | 25.4 |
| | 12H | 23.6 | 24.0 | 24.2 | 24.5 | 25.1 | 24.0 | 24.4 | 24.6 | 24.9 | 25.5 |
| 12H | 4H | 23.0 | 23.6 | 23.5 | 24.0 | 24.5 | 23.3 | 23.9 | 23.8 | 24.4 | 24.9 |
| | 6H | 23.4 | 23.8 | 23.9 | 24.3 | 24.8 | 23.8 | 24.2 | 24.3 | 24.7 | 25.2 |
| | 8H | 23.5 | 23.9 | 24.0 | 24.4 | 25.0 | 23.9 | 24.3 | 24.5 | 24.8 | 25.4 |

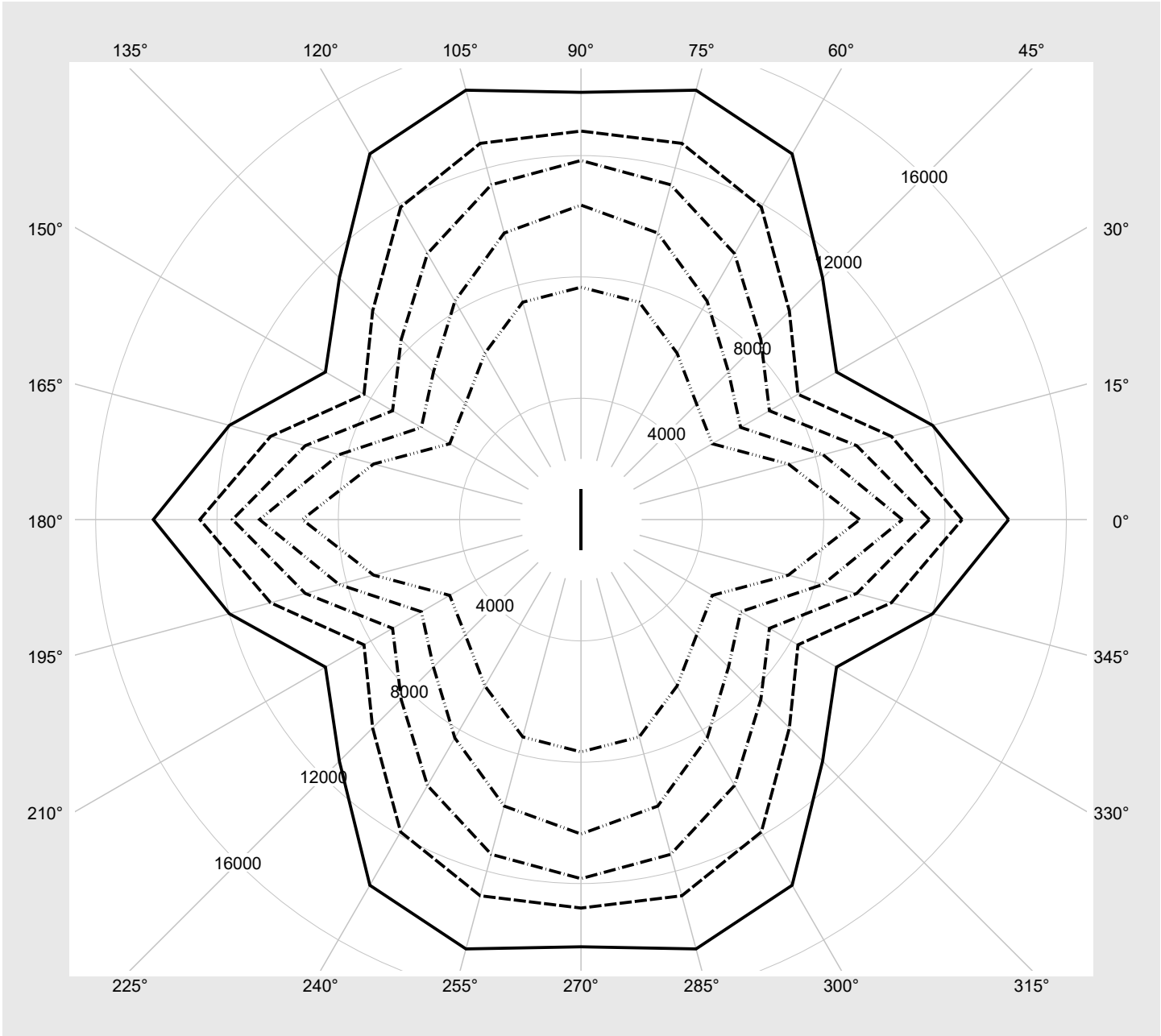
| | | | |
|------------------------|---------------------------------------------------|--------------------------------------|----------------------------------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | L = 1500 B = 58 |
|------------------------|---------------------------------------------------|--------------------------------------|----------------------------------|

| 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° | | 35456.8 | 32404.4 | 28413.4 | 27679.5 | 29404.3 | 29873.5 | 28389.5 | |
| 50° | | 26632.7 | 23588.0 | 20036.3 | 20693.7 | 23663.1 | 25909.0 | 23994.0 | |
| 55° | | 20471.0 | 17771.2 | 14898.3 | 16255.2 | 19556.4 | 21524.2 | 19551.4 | |
| 60° | | 16556.3 | 14212.0 | 11736.0 | 13345.4 | 16415.7 | 17500.8 | 16235.4 | |
| 65° | | 14099.7 | 12000.5 | 9728.2 | 11264.2 | 13922.4 | 14655.3 | 14086.2 | |
| 70° | | 12564.7 | 10594.5 | 8260.7 | 9715.3 | 11892.9 | 12840.9 | 12808.4 | |
| 75° | | 11488.5 | 9410.8 | 7173.1 | 8386.1 | 10124.0 | 11427.1 | 11838.9 | |
| 80° | | 10596.5 | 8261.0 | 6077.7 | 6879.3 | 8316.4 | 9779.8 | 10368.0 | |
| 85° | | 9189.5 | 7078.1 | 4998.3 | 5389.3 | 6335.4 | 7419.3 | 7660.8 | |

Photometric test report

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|---------------------------------------|----------------------------------------------------------------|-------------------------------|
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|---------------------------------------|----------------------------------------------------------------|-------------------------------|

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



Photometric test report

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|---------------------------------------|----------------------------------------------------------------|--------------------------------------|
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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 | 9950 | 58.0 |
| 95 | 240 | 252 | 9450 | 54.8 |
| 90 | 226 | 250 | 8944 | 51.5 |
| 85 | 213 | 248 | 8467 | 48.7 |
| 80 | 199 | 245 | 7950 | 45.5 |
| 75 | 186 | 243 | 7462 | 42.6 |
| 70 | 173 | 240 | 6971 | 39.6 |
| 65 | 160 | 237 | 6477 | 36.8 |
| 60 | 147 | 234 | 5976 | 33.9 |
| 55 | 134 | 231 | 5471 | 31.0 |
| 50 | 121 | 227 | 4959 | 28.2 |
| 45 | 109 | 223 | 4483 | 25.5 |
| 40 | 96 | 218 | 3963 | 22.7 |
| 35 | 84 | 213 | 3480 | 20.1 |
| 30 | 72 | 208 | 2991 | 17.5 |
| 25 | 60 | 201 | 2499 | 15.0 |
| 20 | 48 | 193 | 2003 | 12.3 |
| 15 | 36 | 182 | 1503 | 9.7 |
| 10 | 24 | 168 | 1000 | 7.2 |
| 5 | 12 | 142 | 494 | 4.6 |
| 2 | 4 | 102 | 154 | 3.0 |