

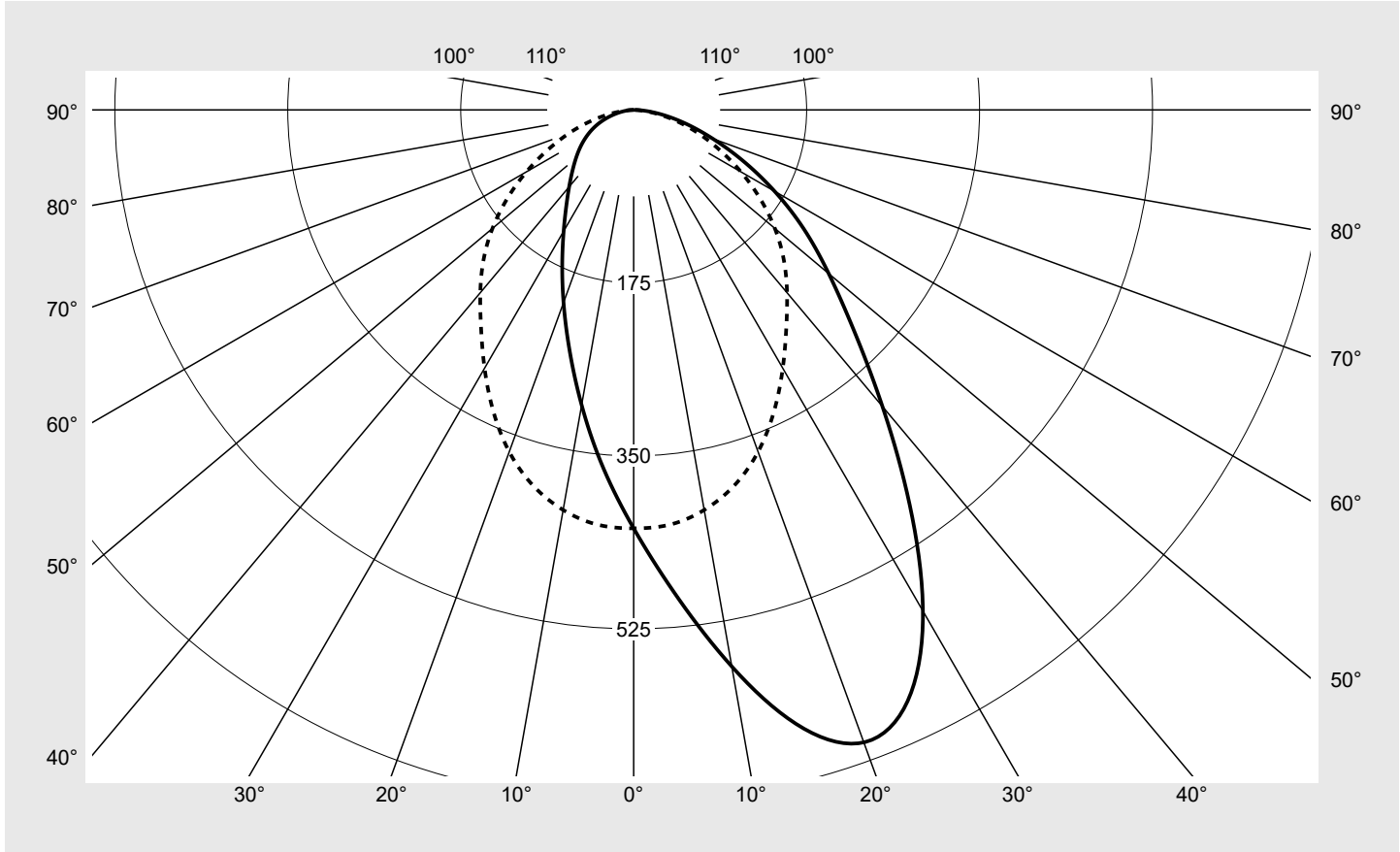


Photometric test report

| | | |
|--|---|--|
| Family Licross® Recessed | Order number: 51TL14DN485F EAN: 4058352265116 | LP number 58683_13 |
|  | Version cover frosted, asymmetric distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 8550 lm Power consumption = 56.2 W Luminous efficacy = 152.1 lm/W | serial documentation 15.11.2019 |
| |  | |

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 681 cd/klm**



| Classifications | |
|-----------------|------------------------------------|
| DIN 5040 | A 4 0 |
| CIE | N1=56 N2=84 N3=97 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 |

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| Table of values for luminous intensities | | Maximum luminous intensity |
| | | siteco |

| C-planes | 0° | 15° 345° | 30° 330° | 45° 315° | 60° 300° | 75° 285° | 90° 270° |
|----------|------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| γ | Luminous intensity in cd/klm | | | | | | |
| 0° | 423.3 | 423.3 | 423.3 | 423.3 | 423.3 | 423.3 | 423.3 |
| 5° | 492.9 | 491.4 | 480.7 | 469.8 | 456.1 | 438.7 | 421.2 |
| 10° | 571.7 | 566.6 | 544.9 | 518.0 | 484.6 | 447.0 | 411.0 |
| 15° | 644.7 | 637.1 | 605.9 | 562.5 | 507.2 | 447.4 | 393.4 |
| 20° | 680.9 | 674.8 | 644.8 | 594.0 | 519.7 | 438.2 | 368.1 |
| 25° | 657.9 | 657.6 | 642.1 | 600.0 | 518.2 | 419.3 | 336.2 |
| 30° | 585.4 | 591.2 | 594.0 | 574.0 | 501.7 | 394.4 | 301.7 |
| 35° | 486.6 | 496.5 | 513.6 | 518.9 | 472.6 | 367.8 | 269.2 |
| 40° | 391.6 | 400.9 | 423.7 | 447.6 | 435.3 | 342.4 | 241.4 |
| 45° | 315.0 | 320.7 | 340.1 | 373.0 | 389.0 | 312.9 | 214.9 |
| 50° | 257.7 | 259.4 | 273.6 | 305.9 | 334.9 | 275.1 | 186.5 |
| 55° | 210.4 | 209.0 | 219.8 | 247.0 | 276.4 | 230.5 | 156.0 |
| 60° | 164.7 | 163.2 | 172.4 | 194.6 | 218.3 | 183.7 | 125.4 |
| 65° | 122.2 | 121.6 | 130.0 | 147.7 | 165.1 | 139.3 | 96.1 |
| 70° | 85.2 | 85.7 | 92.4 | 106.6 | 118.3 | 100.1 | 70.2 |
| 75° | 55.7 | 56.1 | 61.0 | 71.1 | 77.9 | 65.9 | 46.5 |
| 80° | 31.6 | 31.9 | 35.4 | 40.3 | 43.4 | 36.3 | 25.7 |
| 85° | 13.1 | 12.9 | 14.6 | 16.5 | 16.2 | 13.2 | 9.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| C-planes | 105° 255° | 120° 240° | 135° 225° | 150° 210° | 165° 195° | 180° | Phi-zone | Total Phi-zone |
|----------|------------------------------|--------------|--------------|--------------|--------------|-------|-------------------------|-------------------|
| γ | Luminous intensity in cd/klm | | | | | | Luminous flux in lm/klm | |
| 0° | 423.3 | 423.3 | 423.3 | 423.3 | 423.3 | 423.3 | 2.5 | 2.5 |
| 5° | 404.2 | 389.5 | 375.7 | 365.6 | 362.1 | 361.8 | 20.2 | 22.8 |
| 10° | 378.5 | 351.6 | 328.9 | 312.6 | 305.3 | 303.2 | 40.3 | 63.1 |
| 15° | 347.6 | 311.7 | 283.3 | 263.5 | 254.2 | 251.1 | 59.8 | 123.0 |
| 20° | 312.8 | 271.7 | 241.2 | 220.7 | 211.0 | 207.4 | 77.2 | 200.1 |
| 25° | 275.0 | 232.7 | 202.9 | 183.7 | 174.4 | 171.0 | 89.9 | 290.0 |
| 30° | 237.7 | 196.9 | 169.7 | 152.6 | 144.6 | 141.7 | 96.4 | 386.5 |
| 35° | 204.1 | 165.0 | 141.0 | 127.0 | 121.0 | 118.9 | 96.9 | 483.4 |
| 40° | 176.0 | 138.8 | 117.2 | 106.8 | 102.8 | 101.6 | 93.4 | 576.7 |
| 45° | 151.3 | 116.9 | 98.0 | 90.5 | 88.3 | 87.8 | 87.1 | 663.9 |
| 50° | 128.6 | 98.3 | 82.7 | 77.4 | 76.2 | 76.3 | 79.3 | 743.1 |
| 55° | 107.1 | 82.4 | 69.7 | 65.9 | 65.5 | 66.0 | 69.9 | 813.0 |
| 60° | 87.0 | 68.0 | 58.3 | 55.3 | 55.4 | 56.0 | 59.0 | 872.0 |
| 65° | 68.6 | 55.0 | 47.7 | 45.3 | 45.4 | 45.9 | 47.4 | 919.5 |
| 70° | 51.6 | 42.4 | 37.2 | 35.1 | 35.2 | 35.4 | 35.8 | 955.3 |
| 75° | 35.3 | 29.8 | 26.5 | 24.5 | 24.4 | 24.5 | 24.7 | 980.0 |
| 80° | 20.2 | 17.6 | 15.6 | 14.5 | 14.4 | 14.5 | 14.3 | 994.3 |
| 85° | 7.8 | 7.1 | 6.7 | 6.2 | 6.2 | 6.3 | 5.7 | 1000.0 |
| 90° | 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 | 1000.0 |

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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 | 25.8 | 27.4 | 26.2 | 27.8 | 28.1 | 24.4 | 26.1 | 24.8 | 26.4 | 26.7 |
| | 3H | 26.8 | 28.3 | 27.2 | 28.6 | 28.9 | 25.6 | 27.0 | 26.0 | 27.4 | 27.7 |
| | 4H | 27.2 | 28.5 | 27.6 | 28.9 | 29.2 | 26.0 | 27.3 | 26.4 | 27.7 | 28.1 |
| | 6H | 27.4 | 28.7 | 27.8 | 29.0 | 29.4 | 26.3 | 27.5 | 26.7 | 27.9 | 28.3 |
| | 8H | 27.5 | 28.7 | 27.9 | 29.1 | 29.5 | 26.3 | 27.5 | 26.8 | 27.9 | 28.3 |
| | 12H | 27.6 | 28.7 | 28.0 | 29.1 | 29.5 | 26.4 | 27.5 | 26.8 | 27.9 | 28.3 |
| 4H | 2H | 26.6 | 27.9 | 27.0 | 28.3 | 28.7 | 25.1 | 26.4 | 25.5 | 26.8 | 27.1 |
| | 3H | 27.7 | 28.9 | 28.1 | 29.2 | 29.7 | 26.5 | 27.6 | 26.9 | 28.0 | 28.4 |
| | 4H | 28.2 | 29.2 | 28.6 | 29.6 | 30.0 | 27.0 | 28.0 | 27.5 | 28.4 | 28.9 |
| | 6H | 28.5 | 29.4 | 29.0 | 29.8 | 30.3 | 27.4 | 28.3 | 27.8 | 28.7 | 29.2 |
| | 8H | 28.6 | 29.4 | 29.1 | 29.9 | 30.3 | 27.5 | 28.3 | 28.0 | 28.8 | 29.2 |
| | 12H | 28.7 | 29.4 | 29.2 | 29.9 | 30.4 | 27.6 | 28.3 | 28.1 | 28.7 | 29.2 |
| 8H | 4H | 28.5 | 29.3 | 29.0 | 29.8 | 30.2 | 27.3 | 28.1 | 27.7 | 28.5 | 29.0 |
| | 6H | 28.9 | 29.6 | 29.4 | 30.1 | 30.6 | 27.8 | 28.4 | 28.3 | 28.9 | 29.4 |
| | 8H | 29.1 | 29.7 | 29.6 | 30.2 | 30.7 | 27.9 | 28.5 | 28.4 | 29.0 | 29.5 |
| | 12H | 29.2 | 29.7 | 29.7 | 30.2 | 30.7 | 28.1 | 28.5 | 28.6 | 29.0 | 29.6 |
| 12H | 4H | 28.6 | 29.3 | 29.0 | 29.7 | 30.2 | 27.3 | 28.0 | 27.8 | 28.5 | 29.0 |
| | 6H | 29.0 | 29.6 | 29.5 | 30.1 | 30.6 | 27.8 | 28.4 | 28.3 | 28.9 | 29.4 |
| | 8H | 29.2 | 29.7 | 29.7 | 30.2 | 30.7 | 28.0 | 28.5 | 28.5 | 29.0 | 29.6 |

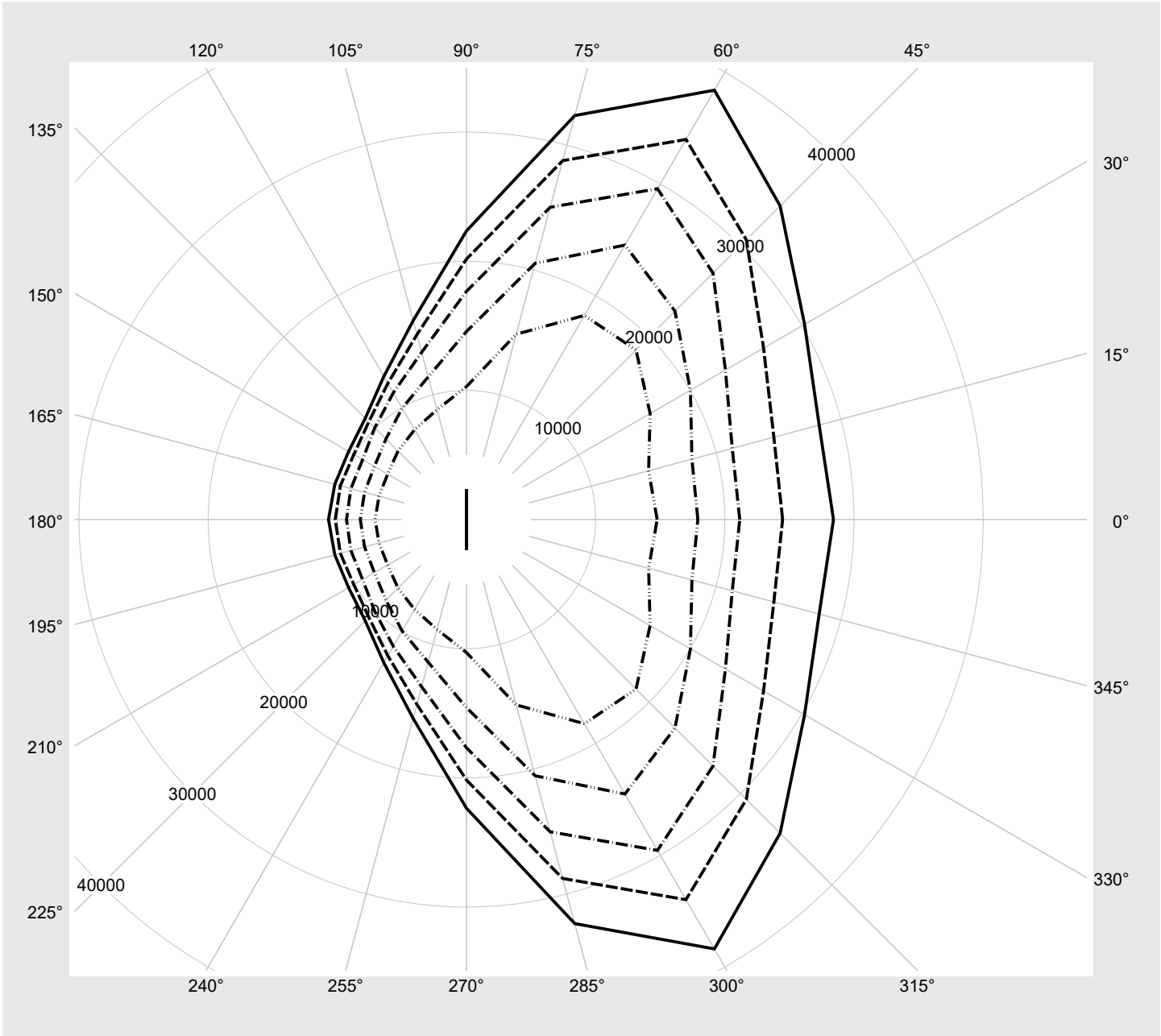
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|------------------------|---|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------------------------------|-----------------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | | | | | | | | | | | | Photometric dimensions in mm: | L = 1500 |
| | | | | | | | | | | | | | B = 58 | |
| C-planes | 0° | 15° 345° | 30° 330° | 45° 315° | 60° 300° | 75° 285° | 90° 270° | 105° 255° | 120° 240° | 135° 225° | 150° 210° | 165° 195° | 180° | |
| γ | Luminance in cd/m² | | | | | | | | | | | | | |
| 45° | 43774.5 | 44565.6 | 47272.9 | 51843.7 | 54058.8 | 43493.2 | 29868.6 | 21034.5 | 16244.1 | 13614.1 | 12582.1 | 12275.3 | 12197.0 | |
| 50° | 39394.0 | 39655.1 | 41830.7 | 46762.2 | 51210.2 | 42053.2 | 28515.7 | 19667.9 | 15035.2 | 12638.2 | 11827.0 | 11655.7 | 11667.3 | |
| 55° | 36041.8 | 35814.3 | 37656.5 | 42316.2 | 47365.9 | 39487.9 | 26722.5 | 18356.9 | 14114.4 | 11941.8 | 11295.8 | 11224.4 | 11315.4 | |
| 60° | 32370.3 | 32084.5 | 33886.9 | 38250.1 | 42911.8 | 36099.7 | 24638.3 | 17093.9 | 13360.8 | 11451.5 | 10878.4 | 10882.1 | 11014.0 | |
| 65° | 28414.1 | 28267.2 | 30223.1 | 34341.1 | 38385.7 | 32385.2 | 22352.0 | 15950.0 | 12799.7 | 11086.1 | 10539.2 | 10555.2 | 10683.4 | |
| 70° | 24475.3 | 24637.1 | 26556.2 | 30639.6 | 33983.3 | 28767.8 | 20170.1 | 14821.8 | 12177.7 | 10698.5 | 10071.5 | 10111.5 | 10158.6 | |
| 75° | 21157.0 | 21301.3 | 23147.8 | 26990.5 | 29576.7 | 25030.8 | 17672.4 | 13407.5 | 11332.8 | 10045.6 | 9286.5 | 9264.9 | 9288.8 | |
| 80° | 17911.1 | 18068.5 | 20019.3 | 22825.8 | 24536.7 | 20538.3 | 14560.7 | 11439.5 | 9965.2 | 8819.7 | 8228.9 | 8171.7 | 8218.1 | |
| 85° | 14762.4 | 14597.8 | 16416.6 | 18563.5 | 18250.0 | 14854.9 | 10298.3 | 8807.6 | 8037.5 | 7501.9 | 7046.3 | 7010.2 | 7074.5 | |

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Luminance values in cd/m²

γ 65°
γ 70°
γ 75°
γ 80°
γ 85°



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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 | 8550 | 56.2 |
| 95 | 240 | 252 | 8120 | 53.1 |
| 90 | 226 | 250 | 7694 | 50.0 |
| 85 | 212 | 247 | 7266 | 47.0 |
| 80 | 199 | 245 | 6838 | 44.1 |
| 75 | 186 | 242 | 6411 | 41.1 |
| 70 | 172 | 240 | 5984 | 38.3 |
| 65 | 159 | 237 | 5557 | 35.4 |
| 60 | 146 | 234 | 5129 | 32.6 |
| 55 | 133 | 230 | 4701 | 30.0 |
| 50 | 121 | 227 | 4275 | 27.3 |
| 45 | 108 | 223 | 3847 | 24.6 |
| 40 | 96 | 218 | 3419 | 22.0 |
| 35 | 83 | 213 | 2992 | 19.4 |
| 30 | 71 | 208 | 2565 | 16.8 |
| 25 | 59 | 201 | 2137 | 14.3 |
| 20 | 47 | 192 | 1710 | 11.9 |
| 15 | 35 | 182 | 1282 | 9.5 |
| 10 | 24 | 168 | 855 | 7.0 |
| 5 | 12 | 143 | 427 | 4.9 |