

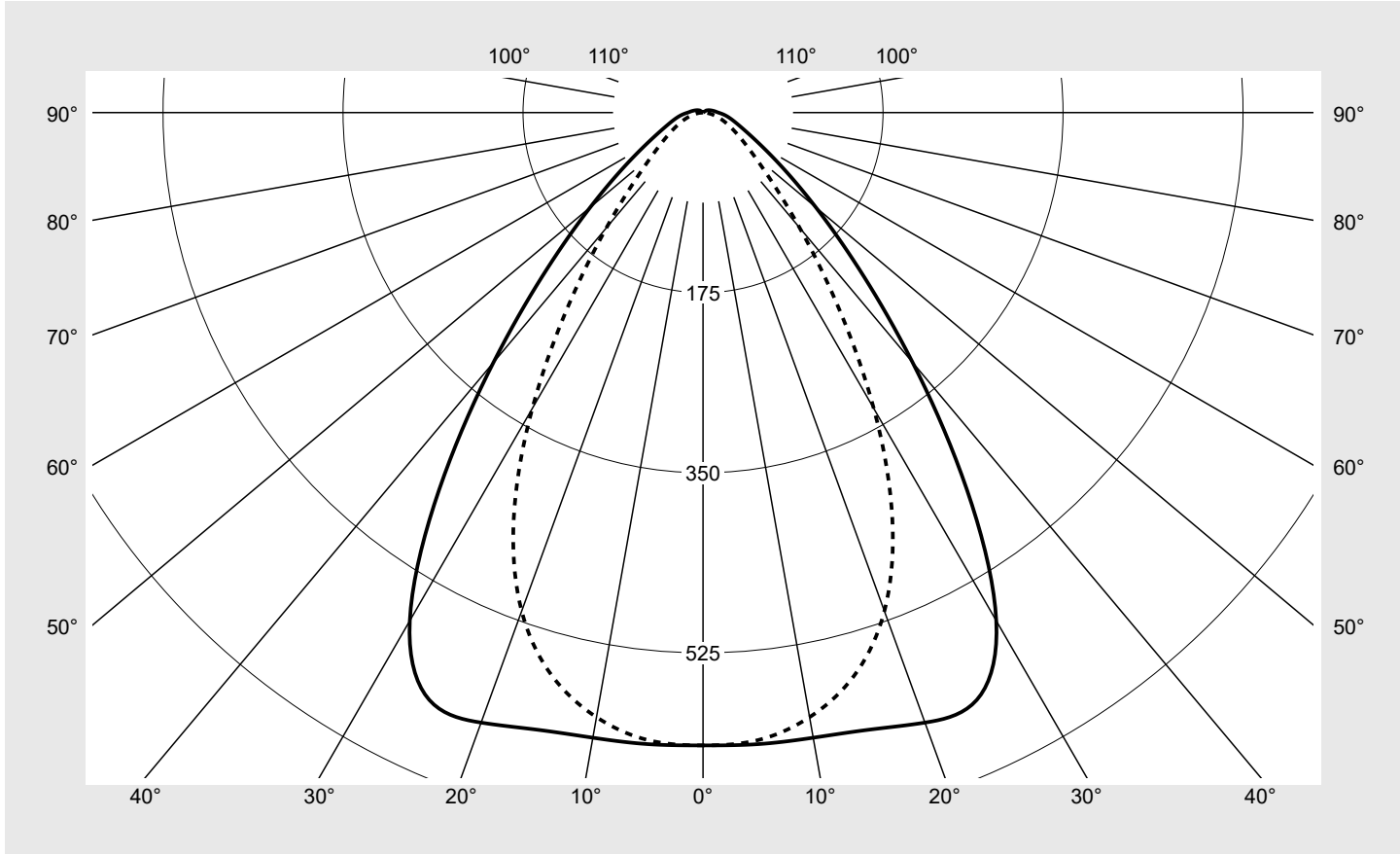


Photometric test report

| | | |
|--|---|---|
| Family Licross® 21 Protected | Order number: 52TD12DN4A5G3S EAN: 4058352907740 | LP number 58524_250 |
|  | Version prismatic cover, frosted, wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Setting AC-mode Rated values Net luminous flux = 10700 lm Power consumption = 65.8 W Luminous efficacy = 162.6 lm/W | serial documentation 17.08.2023 |
| | |  |

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 631 cd/klm**



| Classifications | |
|-----------------|-----------------------------------|
| DIN 5040 | A 5 1 |
| CIE | N1=73 N2=92 N3=98 N4=99 N5=100 |

| Luminaire light output ratios | |
|-------------------------------|--------|
| η_{LB} | 100.0% |
| ϕ_u | 98.6% |
| ϕ_o | 1.4% |

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

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| 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° | 615.0 | 615.0 | 615.0 | 615.0 | 615.0 | 615.0 | 615.0 | 3.7 | 3.7 |
| 5° | 616.1 | 614.1 | 609.7 | 611.1 | 612.9 | 611.9 | 612.2 | 29.3 | 32.9 |
| 10° | 616.9 | 615.1 | 606.4 | 602.8 | 600.3 | 597.0 | 596.6 | 57.6 | 90.5 |
| 15° | 620.9 | 617.8 | 600.9 | 587.5 | 576.7 | 568.6 | 566.8 | 83.8 | 174.3 |
| 20° | 630.8 | 623.5 | 591.7 | 561.2 | 536.7 | 520.1 | 515.5 | 106.4 | 280.7 |
| 25° | 629.8 | 620.7 | 576.3 | 523.2 | 476.9 | 445.6 | 435.5 | 122.6 | 403.3 |
| 30° | 570.2 | 568.9 | 534.3 | 469.6 | 398.0 | 348.4 | 331.9 | 126.5 | 529.9 |
| 35° | 447.2 | 456.9 | 450.2 | 394.1 | 307.5 | 246.5 | 227.0 | 114.9 | 644.8 |
| 40° | 317.0 | 331.0 | 344.1 | 303.2 | 220.2 | 163.1 | 146.0 | 93.6 | 738.3 |
| 45° | 213.9 | 226.3 | 244.1 | 214.7 | 147.7 | 105.6 | 94.0 | 70.6 | 808.9 |
| 50° | 143.1 | 152.0 | 166.9 | 144.8 | 97.7 | 70.8 | 64.1 | 51.5 | 860.4 |
| 55° | 96.6 | 102.1 | 111.9 | 95.1 | 64.8 | 49.7 | 46.3 | 37.0 | 897.4 |
| 60° | 67.0 | 69.6 | 74.2 | 63.4 | 44.8 | 36.0 | 34.5 | 26.8 | 924.2 |
| 65° | 49.0 | 49.5 | 50.0 | 42.8 | 32.0 | 26.6 | 25.7 | 19.7 | 943.9 |
| 70° | 37.9 | 37.0 | 34.4 | 29.4 | 23.3 | 19.5 | 18.8 | 14.8 | 958.7 |
| 75° | 30.5 | 28.7 | 24.6 | 20.4 | 16.6 | 13.6 | 12.7 | 11.1 | 969.8 |
| 80° | 24.8 | 22.7 | 18.1 | 14.1 | 11.2 | 8.8 | 7.6 | 8.2 | 978.0 |
| 85° | 19.7 | 17.8 | 13.4 | 9.8 | 7.1 | 4.8 | 3.4 | 5.9 | 983.8 |
| 90° | 14.9 | 13.4 | 9.7 | 6.4 | 4.0 | 1.9 | 0.4 | 3.9 | 987.8 |
| 95° | 12.2 | 11.1 | 8.2 | 5.4 | 3.1 | 1.2 | 0.3 | 3.2 | 991.0 |
| 100° | 10.0 | 9.2 | 6.9 | 4.5 | 2.4 | 0.7 | 0.3 | 2.6 | 993.6 |
| 105° | 8.2 | 7.6 | 5.7 | 3.6 | 1.7 | 0.4 | 0.3 | 2.1 | 995.6 |
| 110° | 6.8 | 6.2 | 4.6 | 2.7 | 1.1 | 0.3 | 0.3 | 1.6 | 997.2 |
| 115° | 5.5 | 5.0 | 3.7 | 2.0 | 0.7 | 0.4 | 0.4 | 1.2 | 998.4 |
| 120° | 4.3 | 3.8 | 2.7 | 1.4 | 0.6 | 0.5 | 0.5 | 0.9 | 999.3 |
| 125° | 3.1 | 2.7 | 1.8 | 0.9 | 0.6 | 0.6 | 0.6 | 0.6 | 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 |

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|------------------|----------------------|---------------|
| UGR-Table | Standard room | siteco |
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| | | | | | | | | | | | |
|------------------------------|---------------------|------|------|------|------|--------------------|------|------|------|------|------|
| 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 | 21.5 | 22.9 | 21.9 | 23.2 | 23.6 | 18.2 | 19.7 | 18.6 | 20.0 | 20.3 |
| | 3H | 21.9 | 23.2 | 22.3 | 23.5 | 23.9 | 18.6 | 19.9 | 19.0 | 20.2 | 20.6 |
| | 4H | 22.2 | 23.3 | 22.6 | 23.7 | 24.0 | 18.8 | 20.0 | 19.1 | 20.3 | 20.7 |
| | 6H | 22.5 | 23.5 | 22.9 | 23.9 | 24.3 | 18.9 | 20.0 | 19.3 | 20.4 | 20.7 |
| | 8H | 22.7 | 23.6 | 23.1 | 24.0 | 24.4 | 19.0 | 20.0 | 19.4 | 20.4 | 20.8 |
| | 12H | 22.9 | 23.7 | 23.3 | 24.1 | 24.5 | 19.0 | 19.9 | 19.4 | 20.3 | 20.7 |
| 4H | 2H | 21.6 | 22.8 | 22.0 | 23.1 | 23.5 | 18.8 | 19.9 | 19.2 | 20.3 | 20.7 |
| | 3H | 22.1 | 23.1 | 22.5 | 23.5 | 23.9 | 19.3 | 20.2 | 19.7 | 20.6 | 21.0 |
| | 4H | 22.4 | 23.3 | 22.9 | 23.7 | 24.2 | 19.5 | 20.4 | 19.9 | 20.8 | 21.2 |
| | 6H | 22.9 | 23.6 | 23.3 | 24.0 | 24.5 | 19.7 | 20.4 | 20.1 | 20.9 | 21.3 |
| | 8H | 23.1 | 23.8 | 23.6 | 24.2 | 24.7 | 19.7 | 20.4 | 20.2 | 20.9 | 21.4 |
| | 12H | 23.4 | 23.9 | 23.9 | 24.4 | 24.9 | 19.8 | 20.4 | 20.3 | 20.9 | 21.4 |
| 8H | 4H | 22.5 | 23.2 | 22.9 | 23.6 | 24.1 | 19.7 | 20.4 | 20.2 | 20.8 | 21.3 |
| | 6H | 23.0 | 23.5 | 23.4 | 24.0 | 24.5 | 20.0 | 20.5 | 20.5 | 21.0 | 21.5 |
| | 8H | 23.3 | 23.8 | 23.8 | 24.3 | 24.8 | 20.1 | 20.6 | 20.6 | 21.1 | 21.6 |
| | 12H | 23.7 | 24.1 | 24.2 | 24.6 | 25.1 | 20.2 | 20.6 | 20.7 | 21.1 | 21.7 |
| 12H | 4H | 22.5 | 23.1 | 22.9 | 23.5 | 24.0 | 19.8 | 20.3 | 20.3 | 20.8 | 21.3 |
| | 6H | 23.0 | 23.5 | 23.5 | 23.9 | 24.5 | 20.1 | 20.5 | 20.6 | 21.0 | 21.6 |
| | 8H | 23.3 | 23.7 | 23.8 | 24.2 | 24.8 | 20.2 | 20.6 | 20.8 | 21.1 | 21.7 |

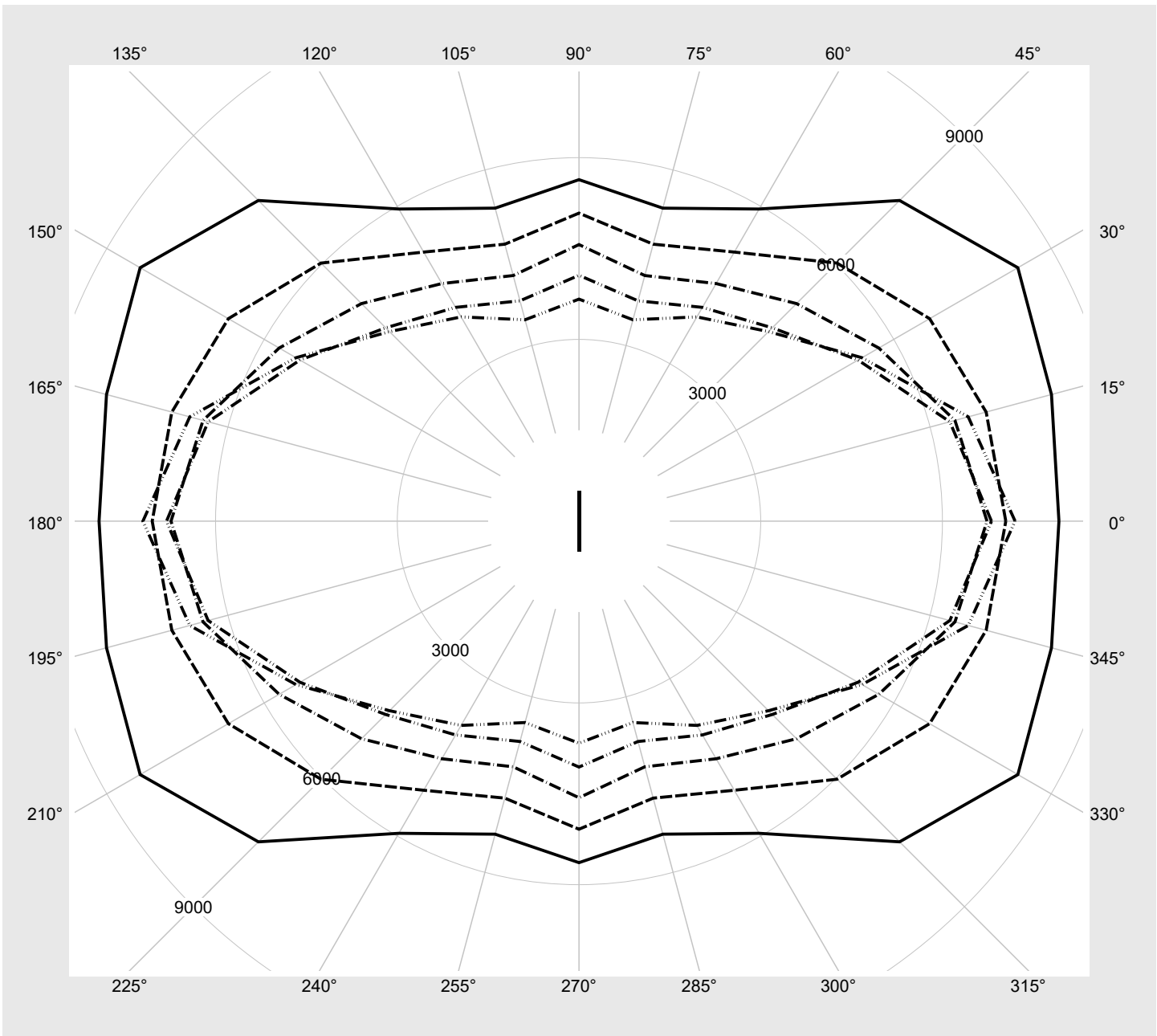
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|------------------------|---|--------------------------------------|-----------------|-------------------|---------------------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | L = 1480 | H(C0) = 13 | H(C180)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

| C-planes | γ | 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° | | 24036.6 | 25546.1 | 27960.5 | 25173.6 | 17868.7 | 13272.2 | 12326.4 | |
| 50° | | 17210.8 | 18390.7 | 20539.7 | 18313.4 | 12816.2 | 9706.5 | 9237.2 | |
| 55° | | 12603.7 | 13410.2 | 14988.2 | 13153.6 | 9358.6 | 7559.9 | 7483.1 | |
| 60° | | 9643.9 | 10088.0 | 11007.4 | 9757.5 | 7249.8 | 6216.2 | 6388.3 | |
| 65° | | 7923.8 | 8075.9 | 8366.3 | 7485.3 | 5949.0 | 5348.6 | 5636.3 | |
| 70° | | 7046.3 | 6959.3 | 6684.5 | 6024.2 | 5128.5 | 4732.6 | 5084.3 | |
| 75° | | 6736.3 | 6425.9 | 5715.8 | 5078.7 | 4528.3 | 4197.3 | 4565.0 | |
| 80° | | 6809.9 | 6338.9 | 5319.0 | 4512.7 | 4074.5 | 3764.9 | 4058.3 | |
| 85° | | 7199.8 | 6652.9 | 5395.3 | 4424.7 | 3892.8 | 3441.1 | 3664.8 | |

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



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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 | ---- | ---- | ---- | ---- |
| 100 | 253 | 254 | 10662 | 65.6 |
| 95 | 240 | 252 | 10162 | 62.4 |
| 90 | 226 | 250 | 9618 | 58.9 |
| 85 | 213 | 248 | 9106 | 55.7 |
| 80 | 199 | 245 | 8548 | 52.3 |
| 75 | 186 | 243 | 8024 | 49.3 |
| 70 | 173 | 240 | 7495 | 46.1 |
| 65 | 160 | 237 | 6962 | 43.0 |
| 60 | 147 | 234 | 6424 | 39.9 |
| 55 | 134 | 231 | 5880 | 36.8 |
| 50 | 121 | 227 | 5331 | 33.7 |
| 45 | 109 | 223 | 4821 | 30.9 |
| 40 | 96 | 218 | 4261 | 27.9 |
| 35 | 84 | 213 | 3740 | 25.2 |
| 30 | 72 | 208 | 3214 | 22.4 |
| 25 | 60 | 201 | 2684 | 19.7 |
| 20 | 48 | 193 | 2151 | 16.8 |
| 15 | 36 | 182 | 1616 | 14.0 |
| 10 | 24 | 168 | 1076 | 11.3 |
| 5 | 12 | 142 | 532 | 8.7 |
| 2 | 4 | 102 | 166 | 6.9 |