

Lichttechnischer Prüfbefund

Familie
Licross® 11 Performance

Bestell-Nr.: 51TS16DN4EXL3C
EAN: 4058352485804

LP-Nummer
58519_31



Ausführung Abdeckung satiniert, direkt-/ indirekt strahlend
Bestückung LED 4000 K | CRI ≥ 80
Betriebsgerät EVG-DALI
Einstellung AC-Betrieb
Bemessungswerte Nettolichtstrom = 14250 lm
 Systemleistung = 89.8 W
 Lichtausbeute = 158.7 lm/W

Seriendokumentation
04.05.2021

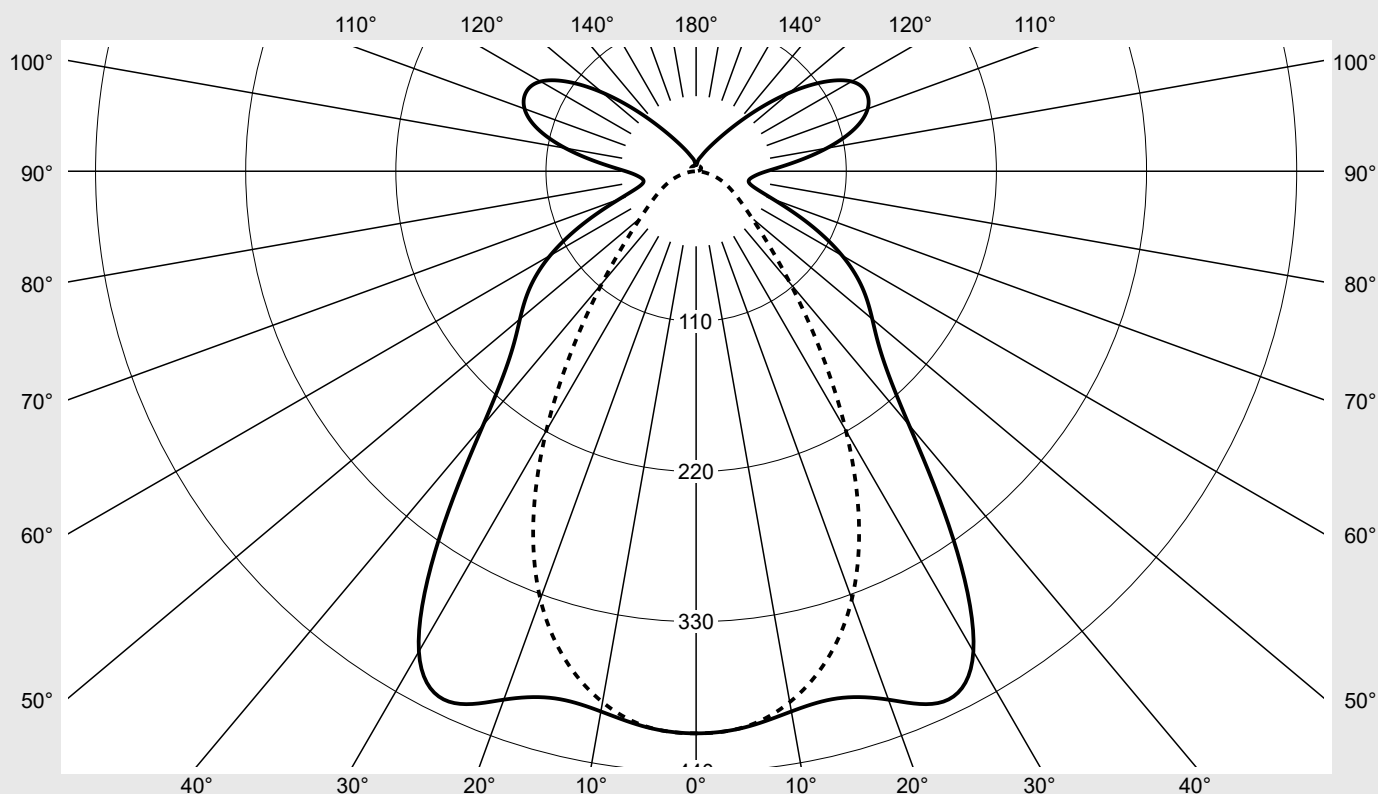
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Lichtstärke in cd/klm

C180-0

C270-90

Imax: 429 cd/klm



Klassifizierungen

DIN 5040 B 5 1
 CIE N1=63 N2=86 N3=95
 N4=78 N5=100

Leuchtenbetriebswirkungsgrade

η_{LB} 100,0%
 ϕ_u 78,1%
 ϕ_o 21,9%

Messbedingungen

DIN EN 13032 und DIN 5032

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| | | |
|--|---|-------------------------------------|
| Familie Licross® 11 Performance | Bestell-Nr.: 51TS16DN4EXL3C EAN: 4058352485804 | LP-Nummer 58519_31 |
| Wertetabelle Lichtstärkemessung | | Maximale Lichtstärke |
| | | sITeco |

| C- Ebenen | 0° 180° | 15° | 30° | 45° | 60° | 75° | 90° 270° | Phi-Zone | Summe | |
|-----------------------|------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------|----------|----------|----------|
| | | 165° 195° 345° | 150° 210° 330° | 135° 225° 315° | 120° 240° 300° | 105° 255° 285° | | | Phi-Zone | Phi-Zone |
| γ | | | | | | | | | | |
| Lichtstärke in cd/klm | | | | | | | | | | |
| Lichtstrom in lm/klm | | | | | | | | | | |
| 0° | 411.8 | 411.8 | 411.8 | 411.8 | 411.8 | 411.8 | 411.8 | 2.5 | 2.5 | |
| 5° | 409.0 | 407.3 | 405.0 | 406.4 | 408.3 | 408.3 | 408.7 | 19.5 | 21.9 | |
| 10° | 401.9 | 399.8 | 395.6 | 394.8 | 395.0 | 394.6 | 395.0 | 37.7 | 59.6 | |
| 15° | 399.8 | 396.0 | 386.0 | 378.7 | 373.7 | 370.5 | 370.4 | 54.1 | 113.8 | |
| 20° | 412.0 | 404.2 | 382.1 | 360.3 | 344.8 | 335.4 | 333.6 | 68.7 | 182.5 | |
| 25° | 428.7 | 419.7 | 386.2 | 342.0 | 307.4 | 287.4 | 282.2 | 81.0 | 263.5 | |
| 30° | 406.2 | 406.4 | 384.2 | 323.4 | 261.9 | 228.9 | 219.5 | 87.6 | 351.1 | |
| 35° | 328.1 | 339.8 | 351.8 | 297.2 | 211.1 | 168.2 | 156.8 | 84.4 | 435.5 | |
| 40° | 242.7 | 253.2 | 284.0 | 257.1 | 161.6 | 117.6 | 107.2 | 73.3 | 508.8 | |
| 45° | 193.2 | 191.3 | 206.1 | 202.2 | 118.6 | 81.5 | 73.7 | 60.3 | 569.1 | |
| 50° | 168.5 | 157.2 | 146.5 | 145.8 | 85.8 | 58.6 | 53.4 | 49.3 | 618.5 | |
| 55° | 148.6 | 133.1 | 107.2 | 99.9 | 62.9 | 44.3 | 40.9 | 40.6 | 659.0 | |
| 60° | 123.5 | 108.6 | 80.0 | 67.9 | 46.9 | 34.4 | 32.2 | 32.9 | 691.9 | |
| 65° | 91.5 | 81.0 | 59.1 | 47.5 | 36.1 | 27.0 | 25.4 | 25.6 | 717.5 | |
| 70° | 60.2 | 54.5 | 42.3 | 34.6 | 28.0 | 21.0 | 19.4 | 18.9 | 736.4 | |
| 75° | 43.1 | 39.2 | 31.3 | 26.2 | 21.7 | 15.5 | 13.5 | 14.3 | 750.7 | |
| 80° | 39.2 | 35.6 | 27.4 | 20.7 | 16.7 | 10.7 | 8.0 | 12.1 | 762.9 | |
| 85° | 42.5 | 38.8 | 29.2 | 19.4 | 12.9 | 6.9 | 3.4 | 11.8 | 774.7 | |
| 90° | 51.7 | 47.2 | 34.3 | 20.7 | 11.3 | 4.4 | 0.6 | 13.1 | 787.8 | |
| 95° | 71.3 | 64.2 | 44.5 | 24.7 | 12.8 | 5.2 | 1.1 | 17.1 | 804.9 | |
| 100° | 97.2 | 85.6 | 55.2 | 28.6 | 14.3 | 6.1 | 1.8 | 21.5 | 826.4 | |
| 105° | 120.2 | 103.0 | 65.3 | 32.5 | 15.7 | 6.9 | 2.8 | 25.1 | 851.6 | |
| 110° | 133.8 | 113.4 | 72.0 | 35.7 | 17.0 | 7.6 | 3.5 | 27.0 | 878.6 | |
| 115° | 137.4 | 116.7 | 75.1 | 37.4 | 17.7 | 8.2 | 3.9 | 27.0 | 905.5 | |
| 120° | 131.5 | 112.0 | 72.9 | 36.7 | 17.5 | 8.5 | 4.2 | 25.0 | 930.5 | |
| 125° | 114.0 | 97.3 | 64.4 | 33.4 | 16.5 | 8.4 | 4.4 | 20.9 | 951.4 | |
| 130° | 89.6 | 76.8 | 52.0 | 28.4 | 14.9 | 8.3 | 4.5 | 15.9 | 967.3 | |
| 135° | 64.2 | 55.4 | 38.9 | 22.9 | 13.2 | 7.9 | 4.4 | 11.1 | 978.4 | |
| 140° | 43.4 | 38.1 | 28.3 | 18.4 | 11.3 | 7.3 | 4.5 | 7.5 | 985.9 | |
| 145° | 29.7 | 26.7 | 21.1 | 14.9 | 9.5 | 6.3 | 4.4 | 5.0 | 990.9 | |
| 150° | 21.4 | 19.7 | 16.5 | 11.7 | 8.2 | 5.8 | 4.4 | 3.4 | 994.4 | |
| 155° | 16.0 | 15.0 | 12.7 | 9.4 | 8.0 | 5.2 | 4.3 | 2.3 | 996.7 | |
| 160° | 12.3 | 11.7 | 9.5 | 8.1 | 6.6 | 5.4 | 4.1 | 1.5 | 998.2 | |
| 165° | 10.0 | 9.6 | 7.9 | 6.6 | 5.9 | 4.7 | 4.5 | 1.0 | 999.2 | |
| 170° | 7.8 | 6.8 | 5.5 | 5.6 | 6.0 | 4.8 | 4.8 | 0.6 | 999.8 | |
| 175° | 4.9 | 4.4 | 4.8 | 4.8 | 4.9 | 4.9 | 5.2 | 0.2 | 1000.0 | |
| 180° | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 0.0 | 1000.0 | |

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| | | | | | | | | | | |
|--------------------|---------------------|---------------|--|--|--|--|--|--|--|--|
| UGR-Tabelle | Standardraum | siteco | | | | | | | | |
|--------------------|---------------------|---------------|--|--|--|--|--|--|--|--|

| | | | | | | | | | | | |
|----------------------|-----|-------------------------------------|------|------|------|------|---------------------------------------|------|------|------|------|
| Reflexionsgrad Decke | 0,7 | 0,7 | 0,5 | 0,5 | 0,3 | 0,7 | 0,7 | 0,5 | 0,5 | 0,3 | |
| Reflexionsgrad Wände | 0,5 | 0,3 | 0,5 | 0,3 | 0,3 | 0,5 | 0,3 | 0,5 | 0,3 | 0,3 | |
| Reflexionsgrad Boden | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 | |
| Raumabmessungen | | Blickrichtung quer zur Leuchte (C0) | | | | | Blickrichtung längs zur Leuchte (C90) | | | | |
| x | y | | | | | | | | | | |
| 2H | 2H | 20,6 | 21,9 | 21,2 | 22,5 | 23,1 | 16,2 | 17,5 | 16,8 | 18,0 | 18,7 |
| | 3H | 21,4 | 22,5 | 22,1 | 23,2 | 23,9 | 16,7 | 17,8 | 17,3 | 18,5 | 19,1 |
| | 4H | 21,7 | 22,7 | 22,4 | 23,4 | 24,1 | 17,0 | 18,0 | 17,6 | 18,6 | 19,4 |
| | 6H | 22,0 | 22,9 | 22,7 | 23,6 | 24,4 | 17,1 | 18,1 | 17,8 | 18,8 | 19,5 |
| | 8H | 22,3 | 23,1 | 23,0 | 23,8 | 24,6 | 17,1 | 18,1 | 17,8 | 18,7 | 19,5 |
| | 12H | 22,6 | 23,3 | 23,3 | 24,0 | 24,9 | 17,2 | 18,0 | 17,8 | 18,7 | 19,5 |
| 4H | 2H | 20,6 | 21,7 | 21,2 | 22,3 | 23,0 | 16,8 | 17,8 | 17,5 | 18,5 | 19,2 |
| | 3H | 21,6 | 22,4 | 22,2 | 23,1 | 23,9 | 17,5 | 18,4 | 18,2 | 19,0 | 19,8 |
| | 4H | 21,9 | 22,7 | 22,6 | 23,4 | 24,2 | 17,9 | 18,6 | 18,6 | 19,3 | 20,1 |
| | 6H | 22,4 | 23,1 | 23,2 | 23,8 | 24,7 | 18,1 | 18,8 | 18,8 | 19,5 | 20,4 |
| | 8H | 22,8 | 23,4 | 23,5 | 24,1 | 25,0 | 18,2 | 18,8 | 18,9 | 19,6 | 20,4 |
| | 12H | 23,3 | 23,8 | 24,0 | 24,5 | 25,4 | 18,2 | 18,8 | 19,0 | 19,5 | 20,4 |
| 8H | 4H | 21,9 | 22,5 | 22,6 | 23,2 | 24,1 | 18,1 | 18,7 | 18,9 | 19,4 | 20,3 |
| | 6H | 22,5 | 23,0 | 23,3 | 23,8 | 24,7 | 18,5 | 19,0 | 19,3 | 19,8 | 20,7 |
| | 8H | 23,0 | 23,5 | 23,8 | 24,2 | 25,2 | 18,8 | 19,2 | 19,5 | 20,0 | 20,9 |
| | 12H | 23,8 | 24,1 | 24,5 | 24,9 | 25,9 | 18,9 | 19,3 | 19,7 | 20,1 | 21,0 |
| 12H | 4H | 21,8 | 22,4 | 22,6 | 23,1 | 24,0 | 18,2 | 18,7 | 18,9 | 19,4 | 20,3 |
| | 6H | 22,5 | 23,0 | 23,3 | 23,7 | 24,6 | 18,7 | 19,1 | 19,5 | 19,9 | 20,8 |
| | 8H | 23,1 | 23,5 | 23,9 | 24,2 | 25,2 | 19,0 | 19,3 | 19,8 | 20,1 | 21,1 |

| | | | | | |
|------------------------------|---------------------------------|---|---------------------|--------------------------|-----------------------------|
| Leuchtdichten-Tabelle | Max. für $\gamma \geq 65^\circ$ | Lichttechnische Abmessungen in mm: | L = 1480 B = 115 | H(C0) = 36 H(C90) = 0 | H(C180) = 36 H(C270) = 0 |
|------------------------------|---------------------------------|---|---------------------|--------------------------|-----------------------------|

| C- Ebenen | γ | Leuchtdichte 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° | | 17425.6 | 17396.4 | 19202.3 | 19604.7 | 12139.4 | 8923.9 | 8729.2 | |
| 50° | | 15983.0 | 15049.1 | 14425.7 | 15024.2 | 9422.1 | 6965.9 | 6958.9 | |
| 55° | | 14992.5 | 13564.9 | 11281.3 | 11075.6 | 7500.0 | 5792.3 | 5969.3 | |
| 60° | | 13406.0 | 11931.8 | 9120.0 | 8220.5 | 6181.7 | 5047.9 | 5389.2 | |
| 65° | | 10844.4 | 9734.7 | 7399.6 | 6387.7 | 5353.0 | 4562.1 | 5025.9 | |
| 70° | | 7920.1 | 7290.5 | 5930.3 | 5272.3 | 4795.6 | 4198.5 | 4742.9 | |
| 75° | | 6430.0 | 5965.1 | 5039.9 | 4644.2 | 4438.4 | 3841.7 | 4376.5 | |
| 80° | | 6804.0 | 6330.3 | 5209.5 | 4425.7 | 4272.9 | 3548.4 | 3862.5 | |
| 85° | | 8922.5 | 8354.4 | 6837.4 | 5283.4 | 4439.4 | 3442.9 | 3299.8 | |

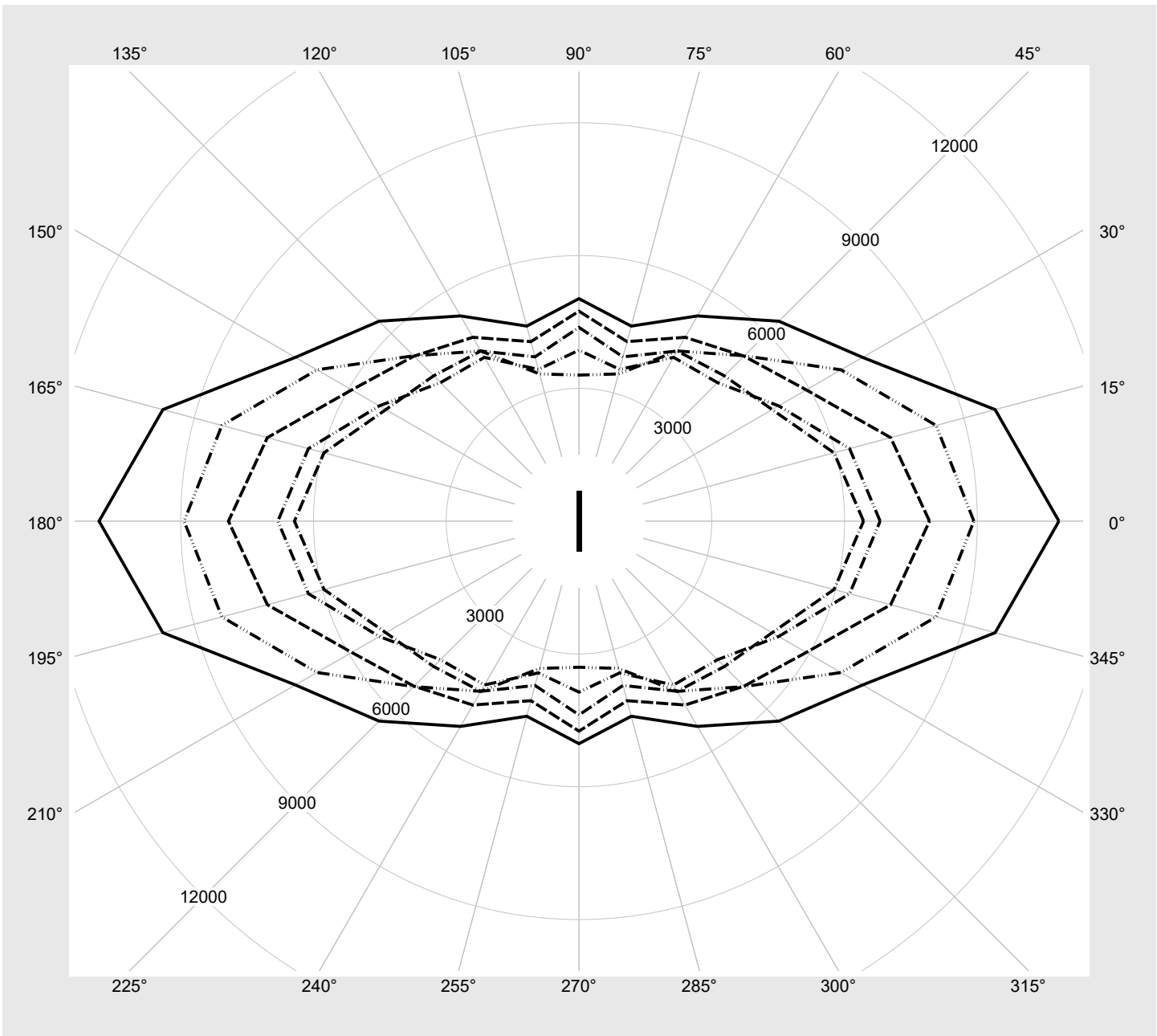
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Leuchtdichten in cd/m²

| | | | | |
|--------------|--------------|--------------|--------------|--------------|
| γ 65° | γ 70° | γ 75° | γ 80° | γ 85° |
|--------------|--------------|--------------|--------------|--------------|

siteco



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|---------------------------|---------------------------|---------------|
| Dimmstufen-Tabelle | Umgebungstemperatur: 25°C | sITeco |
|---------------------------|---------------------------|---------------|

| Lichtstrom [%] | Dimmstufe linear | Dimmstufe logarithmisch | Lichtstrom [lm] | Systemleistung [W] |
|----------------|------------------|-------------------------|-----------------|--------------------|
| 100 | 254 | 254 | 14250 | 89.8 |
| 95 | 240 | 252 | 13534 | 85.1 |
| 90 | 226 | 250 | 12806 | 80.2 |
| 85 | 213 | 248 | 12124 | 75.8 |
| 80 | 199 | 245 | 11379 | 71.0 |
| 75 | 186 | 243 | 10681 | 66.6 |
| 70 | 173 | 240 | 9977 | 62.3 |
| 65 | 160 | 237 | 9262 | 57.9 |
| 60 | 147 | 234 | 8543 | 53.6 |
| 55 | 134 | 231 | 7814 | 49.3 |
| 50 | 122 | 227 | 7137 | 45.5 |
| 45 | 109 | 223 | 6401 | 41.2 |
| 40 | 97 | 219 | 5710 | 37.3 |
| 35 | 85 | 214 | 5014 | 33.4 |
| 30 | 72 | 208 | 4256 | 29.3 |
| 25 | 60 | 201 | 3549 | 25.5 |
| 20 | 48 | 193 | 2837 | 21.6 |
| 15 | 36 | 182 | 2119 | 17.8 |
| 10 | 24 | 168 | 1399 | 14.2 |
| 5 | 13 | 145 | 738 | 10.7 |
| 2 | 5 | 110 | 265 | 8.1 |