

Photometric test report

Family
Licross® 11 Protected

Order number: 51TS12VN4CXLD
EAN: 4058352493571

LP number
58521_38



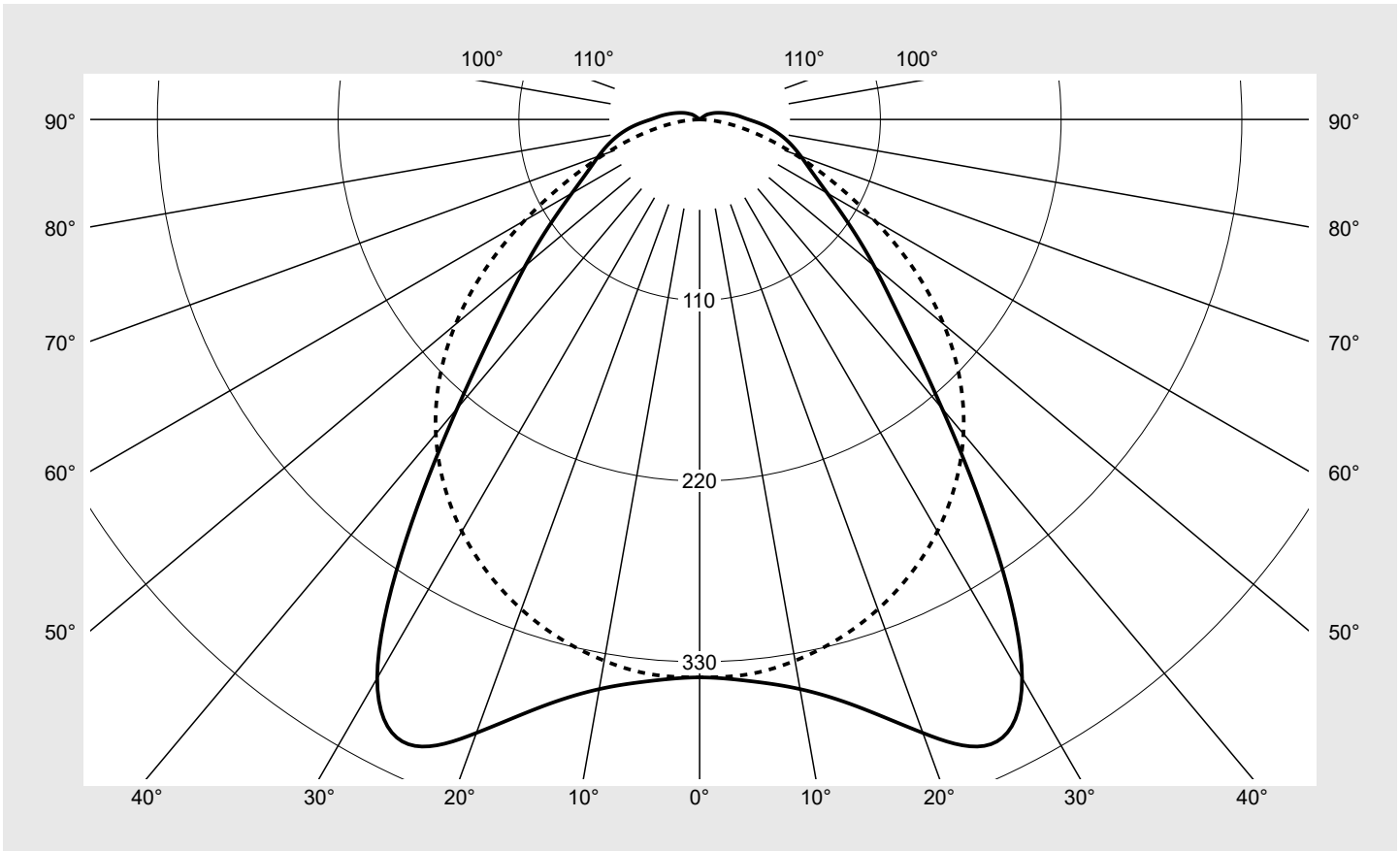
Version prismatic cover, frosted, wide distribution
Lamps LED 4000 K | CRI ≥ 80
Controlgear ECG-DALI CLO
Rated values Net luminous flux = 12430 lm
 Power consumption = 79.4 W
 Luminous efficacy = 156.5 lm/W

serial
documentation
15.03.2021

sitEco

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

Imax: 419 cd/klm



Classifications

DIN 5040 A 4 1
 CIE N1=54 N2=82 N3=95
 N4=97 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 96.8%
 ϕ_o 3.2%

Measurement conditions

DIN EN 13032 and DIN 5032

Photometric test report

| | | |
|---|---|-------------------------------------|
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| 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° | 339.5 | 339.5 | 339.5 | 339.5 | 339.5 | 339.5 | 339.5 | 2.0 | 2.0 |
| 5° | 343.0 | 342.0 | 339.2 | 339.3 | 339.7 | 338.8 | 338.9 | 16.2 | 18.3 |
| 10° | 352.0 | 350.9 | 345.1 | 341.6 | 338.4 | 335.1 | 334.4 | 32.6 | 50.9 |
| 15° | 369.7 | 367.9 | 356.8 | 346.8 | 337.2 | 329.4 | 327.1 | 49.3 | 100.2 |
| 20° | 397.2 | 393.9 | 374.9 | 354.6 | 335.9 | 321.8 | 317.2 | 66.8 | 167.0 |
| 25° | 419.5 | 416.9 | 395.3 | 365.3 | 334.4 | 312.1 | 304.6 | 84.4 | 251.4 |
| 30° | 392.5 | 397.1 | 392.3 | 370.7 | 332.1 | 300.1 | 289.4 | 97.4 | 348.9 |
| 35° | 311.0 | 322.2 | 341.8 | 350.7 | 323.8 | 285.3 | 271.2 | 100.3 | 449.2 |
| 40° | 229.5 | 240.6 | 267.7 | 298.9 | 299.5 | 266.8 | 249.8 | 94.7 | 543.9 |
| 45° | 174.0 | 182.0 | 204.5 | 237.4 | 256.3 | 239.9 | 224.1 | 85.2 | 629.1 |
| 50° | 138.5 | 144.4 | 161.2 | 187.1 | 207.0 | 203.8 | 193.9 | 74.9 | 704.0 |
| 55° | 110.9 | 115.6 | 129.9 | 149.5 | 163.4 | 162.9 | 159.6 | 64.1 | 768.1 |
| 60° | 89.8 | 92.9 | 103.5 | 120.2 | 127.5 | 124.1 | 123.1 | 53.4 | 821.5 |
| 65° | 75.3 | 77.0 | 82.7 | 94.9 | 98.6 | 91.3 | 89.2 | 43.6 | 865.1 |
| 70° | 65.6 | 65.8 | 66.8 | 73.1 | 74.5 | 64.6 | 61.3 | 35.1 | 900.1 |
| 75° | 57.2 | 56.6 | 54.5 | 55.3 | 53.6 | 43.2 | 39.2 | 27.5 | 927.6 |
| 80° | 48.6 | 47.5 | 44.1 | 40.6 | 36.2 | 26.8 | 21.9 | 20.7 | 948.4 |
| 85° | 39.1 | 38.1 | 34.6 | 29.4 | 22.8 | 14.4 | 9.2 | 14.9 | 963.2 |
| 90° | 29.7 | 28.9 | 25.8 | 20.2 | 13.1 | 5.9 | 0.8 | 10.0 | 973.2 |
| 95° | 24.0 | 23.5 | 21.5 | 16.6 | 10.0 | 3.6 | 0.7 | 8.0 | 981.2 |
| 100° | 19.1 | 18.8 | 17.3 | 13.3 | 7.4 | 1.9 | 0.7 | 6.2 | 987.3 |
| 105° | 15.1 | 14.8 | 13.5 | 10.2 | 5.0 | 0.8 | 0.6 | 4.6 | 991.9 |
| 110° | 11.8 | 11.4 | 10.2 | 7.3 | 2.9 | 0.6 | 0.6 | 3.3 | 995.3 |
| 115° | 9.1 | 8.6 | 7.4 | 4.7 | 1.4 | 0.7 | 0.7 | 2.3 | 997.5 |
| 120° | 6.7 | 6.2 | 4.9 | 2.7 | 0.8 | 0.7 | 0.8 | 1.5 | 999.1 |
| 125° | 4.5 | 4.0 | 2.9 | 1.3 | 0.8 | 0.8 | 0.8 | 0.9 | 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 |
|------------------|----------------------|---------------|

| | | | | | | | | | | | |
|------------------------------|---------------------|------|------|------|------|--------------------|------|------|------|------|------|
| 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 | 21.9 | 23.6 | 22.3 | 23.9 | 24.2 | 23.8 | 25.4 | 24.1 | 25.7 | 26.0 |
| | 3H | 23.1 | 24.6 | 23.5 | 24.9 | 25.3 | 24.8 | 26.3 | 25.2 | 26.6 | 26.9 |
| | 4H | 23.8 | 25.2 | 24.2 | 25.5 | 25.9 | 25.1 | 26.5 | 25.5 | 26.9 | 27.2 |
| | 6H | 24.6 | 25.9 | 25.0 | 26.2 | 26.6 | 25.4 | 26.7 | 25.8 | 27.0 | 27.4 |
| | 8H | 25.0 | 26.2 | 25.4 | 26.6 | 27.0 | 25.5 | 26.7 | 25.9 | 27.1 | 27.5 |
| | 12H | 25.4 | 26.5 | 25.8 | 26.9 | 27.3 | 25.6 | 26.7 | 26.0 | 27.1 | 27.5 |
| 4H | 2H | 22.8 | 24.1 | 23.1 | 24.5 | 24.9 | 24.2 | 25.6 | 24.6 | 26.0 | 26.3 |
| | 3H | 24.1 | 25.3 | 24.6 | 25.7 | 26.1 | 25.5 | 26.7 | 25.9 | 27.0 | 27.5 |
| | 4H | 25.0 | 26.0 | 25.4 | 26.4 | 26.9 | 26.0 | 27.0 | 26.4 | 27.5 | 27.9 |
| | 6H | 25.9 | 26.8 | 26.3 | 27.2 | 27.7 | 26.3 | 27.3 | 26.8 | 27.7 | 28.2 |
| | 8H | 26.3 | 27.2 | 26.8 | 27.6 | 28.1 | 26.5 | 27.3 | 26.9 | 27.8 | 28.2 |
| | 12H | 26.8 | 27.6 | 27.3 | 28.0 | 28.5 | 26.6 | 27.3 | 27.1 | 27.8 | 28.3 |
| 8H | 4H | 25.4 | 26.2 | 25.8 | 26.7 | 27.1 | 26.3 | 27.1 | 26.7 | 27.6 | 28.0 |
| | 6H | 26.5 | 27.2 | 26.9 | 27.6 | 28.1 | 26.8 | 27.5 | 27.3 | 28.0 | 28.5 |
| | 8H | 27.0 | 27.7 | 27.5 | 28.2 | 28.7 | 27.0 | 27.6 | 27.5 | 28.1 | 28.6 |
| | 12H | 27.7 | 28.2 | 28.2 | 28.7 | 29.3 | 27.2 | 27.7 | 27.7 | 28.2 | 28.7 |
| 12H | 4H | 25.4 | 26.2 | 25.9 | 26.6 | 27.1 | 26.3 | 27.1 | 26.8 | 27.5 | 28.0 |
| | 6H | 26.6 | 27.2 | 27.1 | 27.7 | 28.2 | 26.9 | 27.5 | 27.4 | 28.0 | 28.5 |
| | 8H | 27.2 | 27.8 | 27.7 | 28.3 | 28.8 | 27.2 | 27.7 | 27.7 | 28.2 | 28.8 |

| | | | | | |
|------------------------|---|--------------------------------------|-----------------|-------------------|---------------------|
| 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° | | 22710.1 | 23865.5 | 27217.7 | 32340.0 | 36029.4 | 35017.4 | 34120.4 | |
| 50° | | 19361.8 | 20297.9 | 23044.8 | 27474.9 | 31544.5 | 32471.9 | 32480.5 | |
| 55° | | 16810.5 | 17642.6 | 20219.6 | 24018.5 | 27407.6 | 28810.9 | 29953.7 | |
| 60° | | 15001.3 | 15642.9 | 17833.7 | 21490.6 | 23996.0 | 24875.8 | 26502.0 | |
| 65° | | 14140.0 | 14574.5 | 16086.5 | 19293.8 | 21313.7 | 21286.2 | 22719.8 | |
| 70° | | 14155.0 | 14360.8 | 15057.7 | 17389.4 | 19084.1 | 18193.5 | 19313.3 | |
| 75° | | 14669.8 | 14716.9 | 14729.4 | 15969.7 | 17021.1 | 15479.8 | 16317.3 | |
| 80° | | 15477.2 | 15395.2 | 15041.1 | 15099.7 | 15261.0 | 13342.7 | 13605.7 | |
| 85° | | 16628.3 | 16554.2 | 16115.5 | 15481.8 | 14447.4 | 11914.5 | 11393.2 | |

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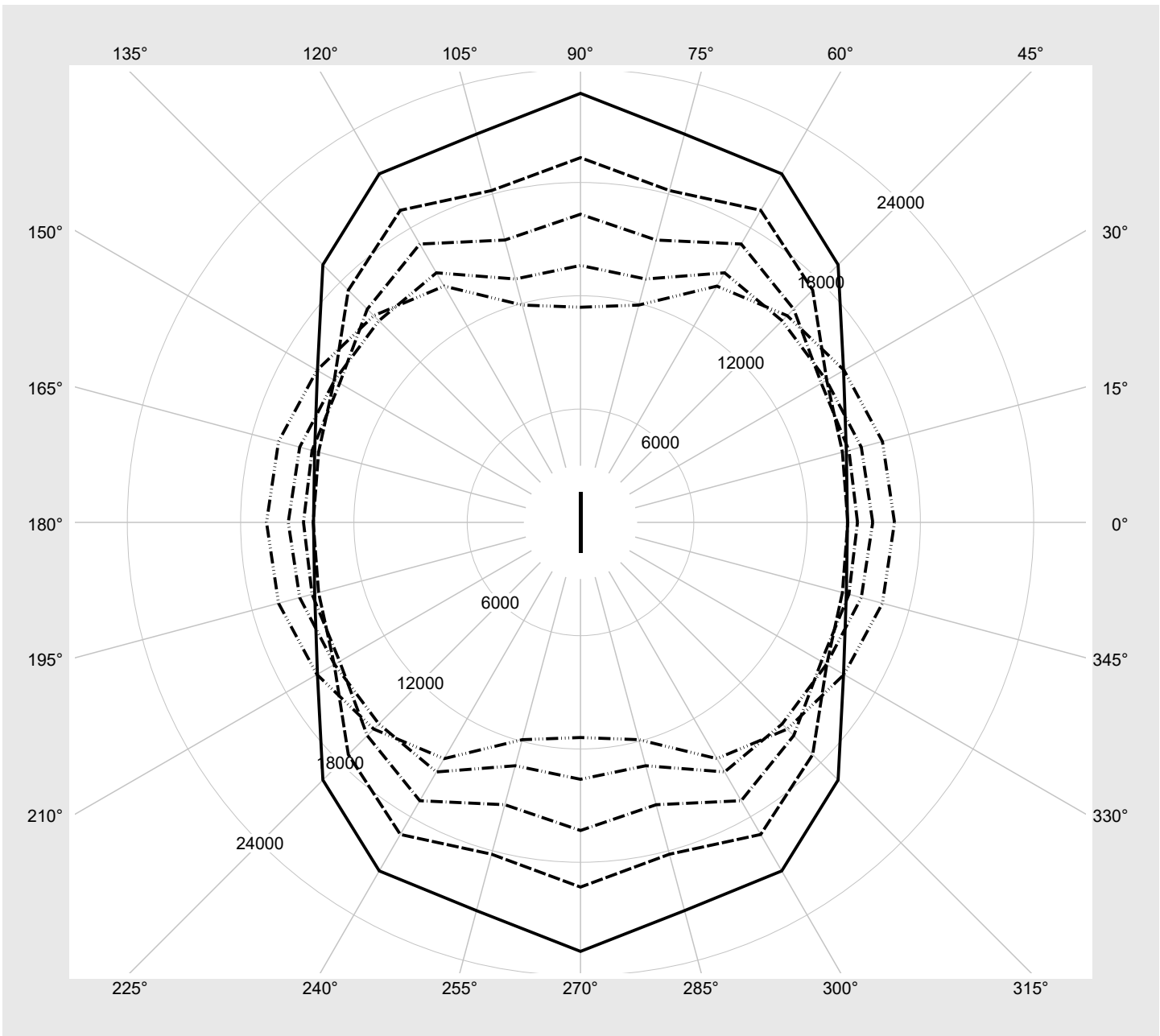
Family
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LP number
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Luminance values in cd/m²

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 | Power consumption | Power consumption |
|--------------------|-------------------------|------------------------------|-----------------------|--------------------------|------------------------|-------------------|
| | | | | [W] start of lifetime | [W] end of lifetime | [W] average |
| 100 | 254 | 254 | 12430 | 79.4 | 88.8 | 84.1 |
| 95 | 240 | 252 | 11799 | 74.9 | 83.8 | 79.4 |
| 90 | 227 | 250 | 11206 | 70.8 | 79.2 | 75.0 |
| 85 | 213 | 248 | 10558 | 66.5 | 74.2 | 70.4 |
| 80 | 200 | 245 | 9953 | 62.4 | 69.6 | 66.0 |
| 75 | 187 | 243 | 9342 | 58.4 | 65.1 | 61.8 |
| 70 | 174 | 240 | 8722 | 54.4 | 60.5 | 57.4 |
| 65 | 161 | 237 | 8100 | 50.4 | 56.1 | 53.2 |
| 60 | 148 | 234 | 7475 | 46.4 | 51.7 | 49.0 |
| 55 | 135 | 231 | 6835 | 42.5 | 47.3 | 44.9 |
| 50 | 122 | 227 | 6198 | 38.6 | 42.9 | 40.8 |
| 45 | 110 | 223 | 5601 | 35.0 | 38.8 | 36.9 |
| 40 | 97 | 219 | 4954 | 31.1 | 34.5 | 32.8 |
| 35 | 85 | 214 | 4350 | 27.6 | 30.5 | 29.0 |
| 30 | 73 | 208 | 3737 | 24.0 | 26.5 | 25.2 |
| 25 | 61 | 202 | 3125 | 20.6 | 22.6 | 21.6 |
| 20 | 49 | 194 | 2507 | 17.0 | 18.7 | 17.8 |
| 15 | 37 | 183 | 1884 | 13.4 | 14.7 | 14.0 |
| 10 | 25 | 169 | 1259 | 10.1 | 10.8 | 10.4 |
| 5 | 13 | 145 | 636 | 6.6 | 7.0 | 6.8 |
| 2 | 5 | 110 | 227 | 4.2 | 4.4 | 4.3 |