

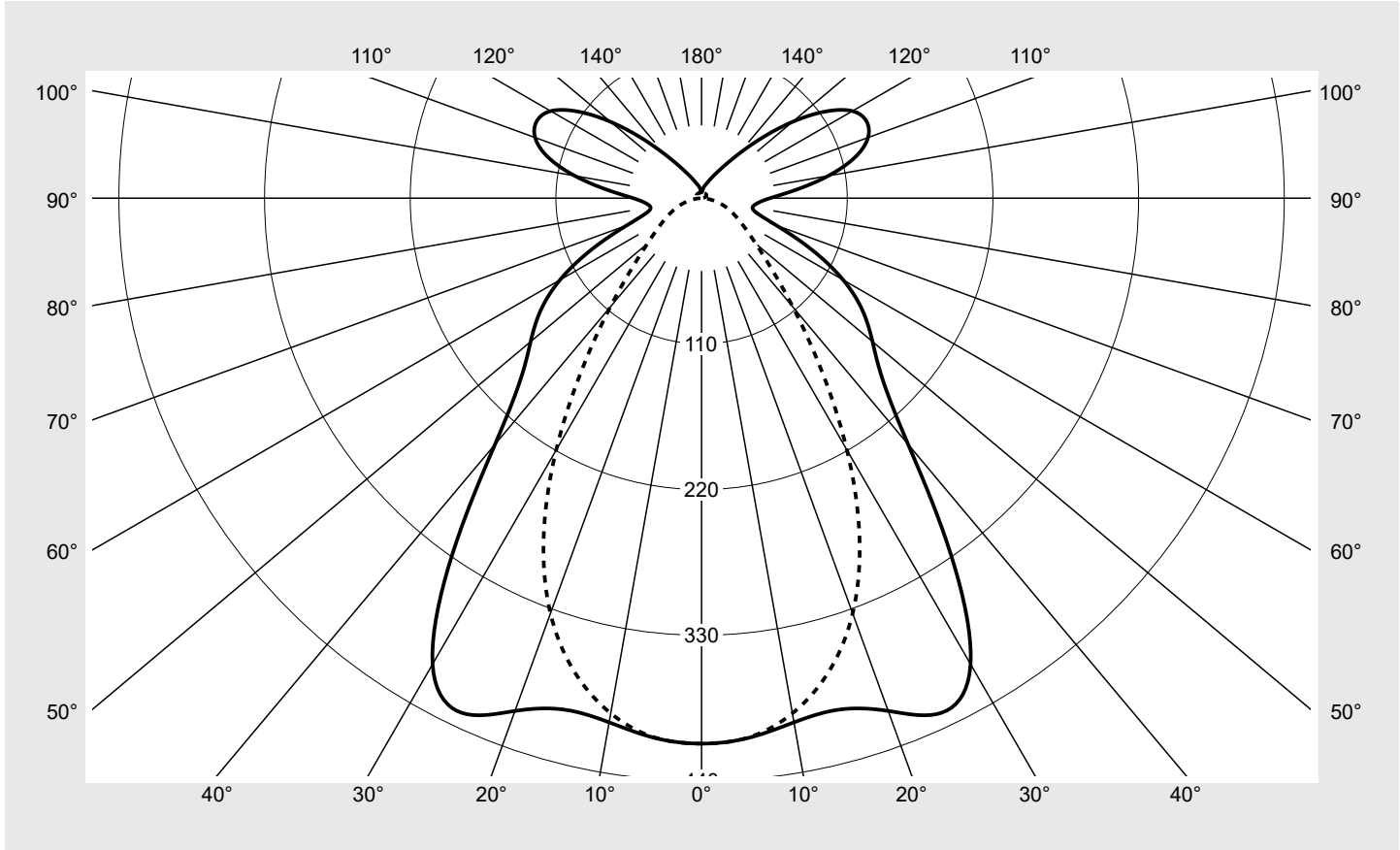


Photometric test report

| | | |
|--|---|---|
| Family Licross® 11 Performance | Order number: 51TM16DN4FXM EAN: 4058352930021 | LP number 58519_265 |
|  | Version cover frosted, direct-/ indirect distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 15460 lm Power consumption = 87.3 W Luminous efficacy = 177.1 lm/W | serial documentation 14.09.2023 |
| | |  |

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 429 cd/klm**



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

| Luminaire light output ratios | |
|-------------------------------|--------|
| η_{LB} | 100.0% |
| ϕ_u | 78.1% |
| ϕ_o | 21.9% |

Measurement conditions
DIN EN 13032 and DIN 5032

Photometric test report

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|---|--|--------------------------------------|
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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° | 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-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 | 20.9 | 22.2 | 21.5 | 22.8 | 23.4 | 16.5 | 17.7 | 17.1 | 18.3 | 19.0 |
| | 3H | 21.7 | 22.8 | 22.3 | 23.4 | 24.2 | 17.0 | 18.1 | 17.6 | 18.7 | 19.4 |
| | 4H | 22.0 | 23.0 | 22.6 | 23.6 | 24.4 | 17.2 | 18.3 | 17.9 | 18.9 | 19.6 |
| | 6H | 22.3 | 23.2 | 23.0 | 23.9 | 24.7 | 17.4 | 18.4 | 18.1 | 19.1 | 19.8 |
| | 8H | 22.6 | 23.4 | 23.3 | 24.1 | 24.9 | 17.4 | 18.3 | 18.1 | 19.0 | 19.8 |
| | 12H | 22.9 | 23.6 | 23.6 | 24.3 | 25.2 | 17.5 | 18.3 | 18.1 | 19.0 | 19.8 |
| 4H | 2H | 20.9 | 22.0 | 21.5 | 22.6 | 23.3 | 17.1 | 18.1 | 17.8 | 18.8 | 19.5 |
| | 3H | 21.8 | 22.7 | 22.5 | 23.4 | 24.2 | 17.8 | 18.7 | 18.5 | 19.3 | 20.1 |
| | 4H | 22.2 | 23.0 | 22.9 | 23.7 | 24.5 | 18.1 | 18.9 | 18.8 | 19.6 | 20.4 |
| | 6H | 22.7 | 23.4 | 23.4 | 24.1 | 24.9 | 18.4 | 19.1 | 19.1 | 19.8 | 20.6 |
| | 8H | 23.1 | 23.7 | 23.8 | 24.4 | 25.3 | 18.5 | 19.1 | 19.2 | 19.8 | 20.7 |
| | 12H | 23.6 | 24.1 | 24.3 | 24.8 | 25.7 | 18.5 | 19.1 | 19.3 | 19.8 | 20.7 |
| 8H | 4H | 22.2 | 22.8 | 22.9 | 23.5 | 24.4 | 18.4 | 19.0 | 19.1 | 19.7 | 20.6 |
| | 6H | 22.8 | 23.3 | 23.6 | 24.1 | 25.0 | 18.8 | 19.3 | 19.6 | 20.1 | 21.0 |
| | 8H | 23.3 | 23.8 | 24.1 | 24.5 | 25.4 | 19.0 | 19.5 | 19.8 | 20.3 | 21.2 |
| | 12H | 24.0 | 24.4 | 24.8 | 25.2 | 26.1 | 19.2 | 19.6 | 20.0 | 20.3 | 21.3 |
| 12H | 4H | 22.1 | 22.7 | 22.9 | 23.4 | 24.3 | 18.5 | 19.0 | 19.2 | 19.7 | 20.6 |
| | 6H | 22.8 | 23.2 | 23.6 | 24.0 | 24.9 | 19.0 | 19.4 | 19.8 | 20.2 | 21.1 |
| | 8H | 23.4 | 23.7 | 24.1 | 24.5 | 25.5 | 19.3 | 19.6 | 20.0 | 20.4 | 21.4 |

| | | | | | |
|------------------------|---|--------------------------------------|-----------------|-------------------|---------------------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | L = 1480 | H(C0) = 36 | H(C180) = 36 |
| | | | B = 115 | 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° | 18905.3 | 18873.6 | 20832.8 | 21269.4 | 13170.2 | 9681.7 | 9470.4 | | |
| | 50° | 17340.2 | 16326.9 | 15650.6 | 16300.0 | 10222.1 | 7557.4 | 7549.8 | | |
| | 55° | 16265.6 | 14716.8 | 12239.2 | 12016.0 | 8136.9 | 6284.1 | 6476.2 | | |
| | 60° | 14544.4 | 12945.0 | 9894.4 | 8918.5 | 6706.6 | 5476.5 | 5846.8 | | |
| | 65° | 11765.2 | 10561.3 | 8027.9 | 6930.1 | 5807.5 | 4949.4 | 5452.6 | | |
| | 70° | 8592.6 | 7909.5 | 6433.9 | 5720.0 | 5202.8 | 4555.0 | 5145.6 | | |
| | 75° | 6975.9 | 6471.6 | 5467.8 | 5038.6 | 4815.2 | 4168.0 | 4748.1 | | |
| | 80° | 7381.7 | 6867.8 | 5651.9 | 4801.5 | 4635.8 | 3849.7 | 4190.5 | | |
| | 85° | 9680.1 | 9063.7 | 7418.0 | 5732.0 | 4816.3 | 3735.2 | 3580.0 | | |

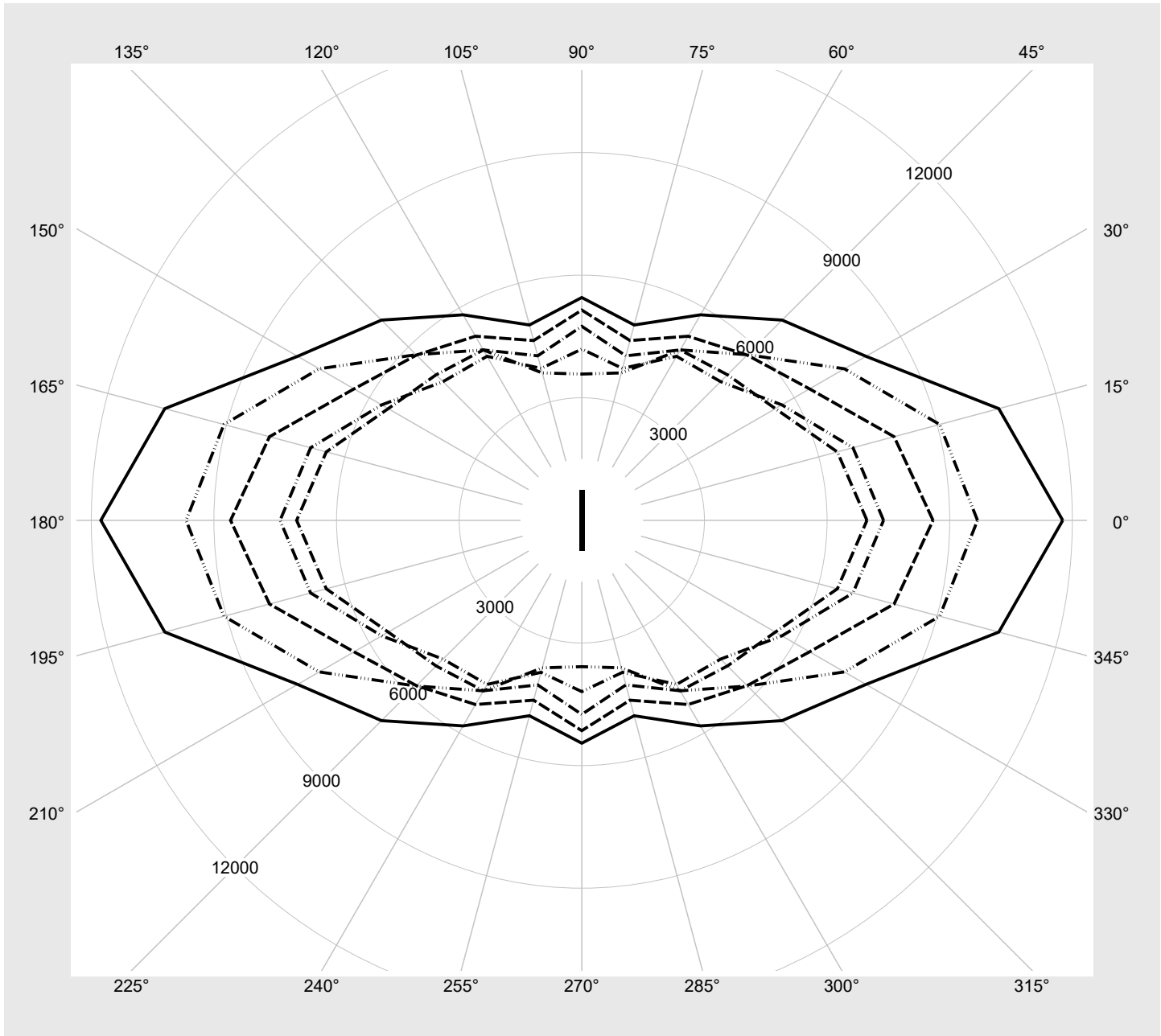
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Luminance values in cd/m²

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 | 254 | 254 | 15460 | 87.3 |
| 95 | 240 | 252 | 14681 | 82.4 |
| 90 | 226 | 250 | 13889 | 77.5 |
| 85 | 213 | 248 | 13146 | 72.9 |
| 80 | 200 | 245 | 12395 | 68.3 |
| 75 | 186 | 243 | 11579 | 63.6 |
| 70 | 173 | 240 | 10815 | 59.1 |
| 65 | 160 | 237 | 10046 | 54.7 |
| 60 | 147 | 234 | 9270 | 50.2 |
| 55 | 134 | 231 | 8485 | 45.9 |
| 50 | 122 | 227 | 7756 | 41.9 |
| 45 | 109 | 223 | 6960 | 37.7 |
| 40 | 96 | 218 | 6156 | 33.4 |
| 35 | 84 | 213 | 5407 | 29.4 |
| 30 | 72 | 208 | 4651 | 25.7 |
| 25 | 60 | 201 | 3889 | 21.8 |
| 20 | 48 | 193 | 3118 | 17.9 |
| 15 | 36 | 182 | 2343 | 14.0 |
| 10 | 24 | 168 | 1562 | 10.1 |
| 5 | 12 | 142 | 775 | 6.4 |
| 2 | 4 | 102 | 246 | 4.0 |