

Lichttechnischer Prüfbefund

Familie
Highbay 11

Bestell-Nr.: 51HLA2D14FCAD + 59HL91004
EAN: 4058352341629 + 4058352341674

LP-Nummer
58927_7



Ausführung breit strahlend, UGR≤25, Prismenabdeckung, PC, LLD
Bestückung LED 4000 K | CRI ≥ 80
Betriebsgerät EVG-DALI
Bemessungswerte Nettolichtstrom = 13110 lm
Systemleistung = 81.2 W
Lichtausbeute = 161.5 lm/W

Seriendokumentation
13.06.2019

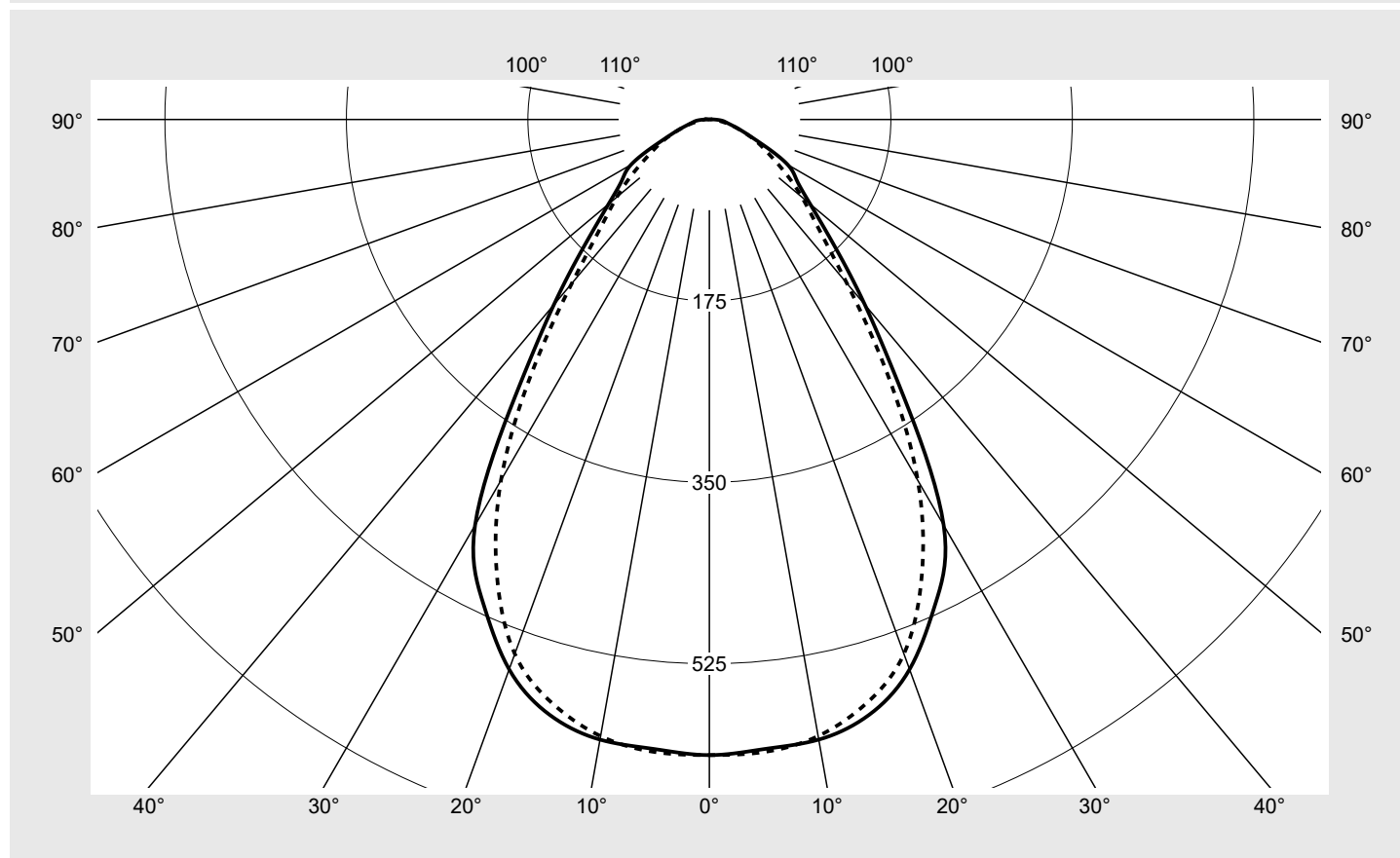
sitEco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 613 cd/klm



Klassifizierungen

DIN 5040 A 5 1
CIE N1=71 N2=92 N3=98
N4=99 N5=100

Leuchtenbetriebswirkungsgrade

η_{LB} 100,0%
 ϕ_u 99,2%
 ϕ_o 0,8%

Messbedingungen

DIN EN 13032 und DIN 5032

Lichttechnischer Prüfbefund

| | | |
|--|--|-----------------------------|
| Familie Highbay 11 | Bestell-Nr.: 51HLA2D14FCAD + 59HL91004 EAN: 4058352341629 + 4058352341674 | LP-Nummer 58927_7 |
| Wertetabelle Lichtstärkemessung | | Maximale Lichtstärke |
| | | sITeCO |

| C- Ebenen | 0° 180° | 15° | 30° | 45° | 60° | 75° | 90° 270° | Phi-Zone | Summe Phi-Zone |
|-----------------------|------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------|----------------------|-------------------|
| | | 165° 195° 345° | 150° 210° 330° | 135° 225° 315° | 120° 240° 300° | 105° 255° 285° | | | |
| Lichtstärke in cd/klm | | | | | | | | Lichtstrom in lm/klm | |
| γ | | | | | | | | | |
| 0° | 613.1 | 613.1 | 613.1 | 613.1 | 613.1 | 613.1 | 613.1 | 3.7 | 3.7 |
| 5° | 609.6 | 611.1 | 612.7 | 613.1 | 612.4 | 613.5 | 612.4 | 29.3 | 32.9 |
| 10° | 607.4 | 608.6 | 610.2 | 610.3 | 606.5 | 606.0 | 604.0 | 57.9 | 90.8 |
| 15° | 594.6 | 597.6 | 602.3 | 599.6 | 593.1 | 586.2 | 583.4 | 84.4 | 175.1 |
| 20° | 564.4 | 569.0 | 575.3 | 578.9 | 566.2 | 554.6 | 548.6 | 106.3 | 281.4 |
| 25° | 515.6 | 519.2 | 532.1 | 539.9 | 522.8 | 495.8 | 484.8 | 120.1 | 401.5 |
| 30° | 451.9 | 458.6 | 489.1 | 475.0 | 449.8 | 415.9 | 401.9 | 124.0 | 525.5 |
| 35° | 327.1 | 344.0 | 384.2 | 395.7 | 355.4 | 317.3 | 299.0 | 110.5 | 636.0 |
| 40° | 233.3 | 244.0 | 283.0 | 307.1 | 269.8 | 223.2 | 206.3 | 90.8 | 726.9 |
| 45° | 168.2 | 173.3 | 198.5 | 225.5 | 193.2 | 156.5 | 149.2 | 71.4 | 798.3 |
| 50° | 126.9 | 129.4 | 133.3 | 144.3 | 131.1 | 119.6 | 116.5 | 54.5 | 852.8 |
| 55° | 103.2 | 99.6 | 94.5 | 87.8 | 94.2 | 91.0 | 89.0 | 42.1 | 895.0 |
| 60° | 87.2 | 78.0 | 70.2 | 56.0 | 68.9 | 67.5 | 66.1 | 33.0 | 928.0 |
| 65° | 55.4 | 55.0 | 48.9 | 35.9 | 50.1 | 50.3 | 50.2 | 24.3 | 952.2 |
| 70° | 35.3 | 34.3 | 31.3 | 21.7 | 32.3 | 34.6 | 34.5 | 16.2 | 968.5 |
| 75° | 23.4 | 22.4 | 19.9 | 14.1 | 19.6 | 21.8 | 22.9 | 10.7 | 979.2 |
| 80° | 16.6 | 15.4 | 13.9 | 10.7 | 12.1 | 12.4 | 12.8 | 7.1 | 986.3 |
| 85° | 12.0 | 10.4 | 9.7 | 7.3 | 6.9 | 6.7 | 7.4 | 4.6 | 990.9 |
| 90° | 4.7 | 4.3 | 4.8 | 4.8 | 4.6 | 4.2 | 4.5 | 2.5 | 993.4 |
| 95° | 2.6 | 2.7 | 3.5 | 3.9 | 3.7 | 3.3 | 3.9 | 1.8 | 995.3 |
| 100° | 1.7 | 1.8 | 2.2 | 2.7 | 2.5 | 2.3 | 2.8 | 1.2 | 996.5 |
| 105° | 1.5 | 1.3 | 1.3 | 1.5 | 1.7 | 1.9 | 2.3 | 0.8 | 997.3 |
| 110° | 1.2 | 1.1 | 0.9 | 0.8 | 1.2 | 1.2 | 2.0 | 0.6 | 997.9 |
| 115° | 1.1 | 1.0 | 0.8 | 0.7 | 1.1 | 1.0 | 1.8 | 0.5 | 998.4 |
| 120° | 0.9 | 0.8 | 0.7 | 0.6 | 0.9 | 1.0 | 1.5 | 0.4 | 998.8 |
| 125° | 0.8 | 0.7 | 0.6 | 0.6 | 0.8 | 1.0 | 1.3 | 0.3 | 999.2 |
| 130° | 0.9 | 0.8 | 0.8 | 0.8 | 0.8 | 1.0 | 1.2 | 0.4 | 999.6 |
| 135° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.2 | 0.4 | 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 |

Lichttechnischer Prüfbefund

| | | |
|------------------------------|--|-----------------------------|
| Familie Highbay 11 | Bestell-Nr.: 51HLA2D14FCAD + 59HL91004 EAN: 4058352341629 + 4058352341674 | LP-Nummer 58927_7 |
|------------------------------|--|-----------------------------|

| UGR-Tabelle | | Standardraum | | | | | | | | | |
|----------------------|-----|-------------------------------------|------|------|------|------|---------------------------------------|------|------|------|------|
| Raumabmessungen | | Blickrichtung quer zur Leuchte (C0) | | | | | Blickrichtung längs zur Leuchte (C90) | | | | |
| x | y | | | | | | | | | | |
| 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 | |
| 2H | 2H | 22,1 | 23,6 | 22,5 | 23,9 | 24,2 | 21,6 | 23,0 | 21,9 | 23,3 | 23,6 |
| | 3H | 22,7 | 24,0 | 23,1 | 24,4 | 24,7 | 22,2 | 23,5 | 22,6 | 23,8 | 24,2 |
| | 4H | 22,9 | 24,1 | 23,3 | 24,5 | 24,8 | 22,4 | 23,6 | 22,8 | 24,0 | 24,4 |
| | 6H | 23,1 | 24,2 | 23,5 | 24,6 | 25,0 | 22,6 | 23,7 | 23,0 | 24,0 | 24,4 |
| | 8H | 23,3 | 24,3 | 23,7 | 24,6 | 25,0 | 22,7 | 23,7 | 23,1 | 24,0 | 24,5 |
| | 12H | 23,4 | 24,3 | 23,8 | 24,7 | 25,1 | 22,7 | 23,6 | 23,2 | 24,0 | 24,4 |
| 4H | 2H | 22,3 | 23,5 | 22,7 | 23,8 | 24,2 | 21,8 | 23,0 | 22,2 | 23,3 | 23,7 |
| | 3H | 23,0 | 24,0 | 23,4 | 24,4 | 24,8 | 22,5 | 23,5 | 23,0 | 23,9 | 24,3 |
| | 4H | 23,2 | 24,1 | 23,7 | 24,5 | 25,0 | 22,8 | 23,7 | 23,3 | 24,1 | 24,6 |
| | 6H | 23,5 | 24,3 | 24,0 | 24,7 | 25,2 | 23,0 | 23,8 | 23,5 | 24,2 | 24,7 |
| | 8H | 23,7 | 24,4 | 24,1 | 24,8 | 25,3 | 23,1 | 23,8 | 23,6 | 24,3 | 24,7 |
| | 12H | 23,9 | 24,5 | 24,4 | 24,9 | 25,4 | 23,2 | 23,8 | 23,7 | 24,3 | 24,8 |
| 8H | 4H | 23,3 | 24,0 | 23,7 | 24,4 | 24,9 | 22,9 | 23,6 | 23,3 | 24,0 | 24,5 |
| | 6H | 23,6 | 24,2 | 24,1 | 24,6 | 25,2 | 23,1 | 23,7 | 23,6 | 24,2 | 24,7 |
| | 8H | 23,8 | 24,3 | 24,3 | 24,8 | 25,3 | 23,2 | 23,7 | 23,7 | 24,2 | 24,7 |
| | 12H | 24,1 | 24,5 | 24,6 | 25,0 | 25,5 | 23,4 | 23,8 | 23,9 | 24,3 | 24,8 |
| 12H | 4H | 23,3 | 23,9 | 23,8 | 24,3 | 24,8 | 22,9 | 23,5 | 23,4 | 23,9 | 24,4 |
| | 6H | 23,6 | 24,1 | 24,1 | 24,6 | 25,1 | 23,2 | 23,6 | 23,7 | 24,1 | 24,6 |
| | 8H | 23,8 | 24,3 | 24,4 | 24,8 | 25,3 | 23,3 | 23,7 | 23,8 | 24,2 | 24,7 |

| | | | | | |
|--|---|------------|--------------|-------------|--------------|
| Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$ | Lichttechnische Abmessungen in mm: L = 306 B = 330 | H(C0) = 21 | H(C180) = 21 | H(C90) = 21 | H(C270) = 21 |
|--|---|------------|--------------|-------------|--------------|

| 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° | | 29031.6 | 29483.0 | 33452.3 | 37859.0 | 32514.0 | 26542.9 | 25634.8 | |
| 50° | | 23822.5 | 23874.5 | 24322.2 | 26231.2 | 23889.0 | 21986.8 | 21751.1 | |
| 55° | | 21415.7 | 20243.7 | 18958.1 | 17536.9 | 18855.2 | 18414.0 | 18338.7 | |
| 60° | | 20398.5 | 17818.3 | 15782.7 | 12508.7 | 15446.6 | 15334.4 | 15330.5 | |
| 65° | | 14971.6 | 14433.4 | 12598.6 | 9190.4 | 12880.3 | 13110.8 | 13432.0 | |
| 70° | | 11418.0 | 10687.4 | 9550.9 | 6550.5 | 9795.5 | 10706.0 | 11023.8 | |
| 75° | | 9478.7 | 8659.6 | 7497.9 | 5247.7 | 7343.4 | 8371.6 | 9139.2 | |
| 80° | | 9099.3 | 7945.7 | 6904.3 | 5240.0 | 5950.6 | 6290.1 | 6886.1 | |
| 85° | | 10368.1 | 8153.1 | 7120.5 | 5286.0 | 5057.9 | 5134.2 | 6161.6 | |

Lichttechnischer Prüfbefund

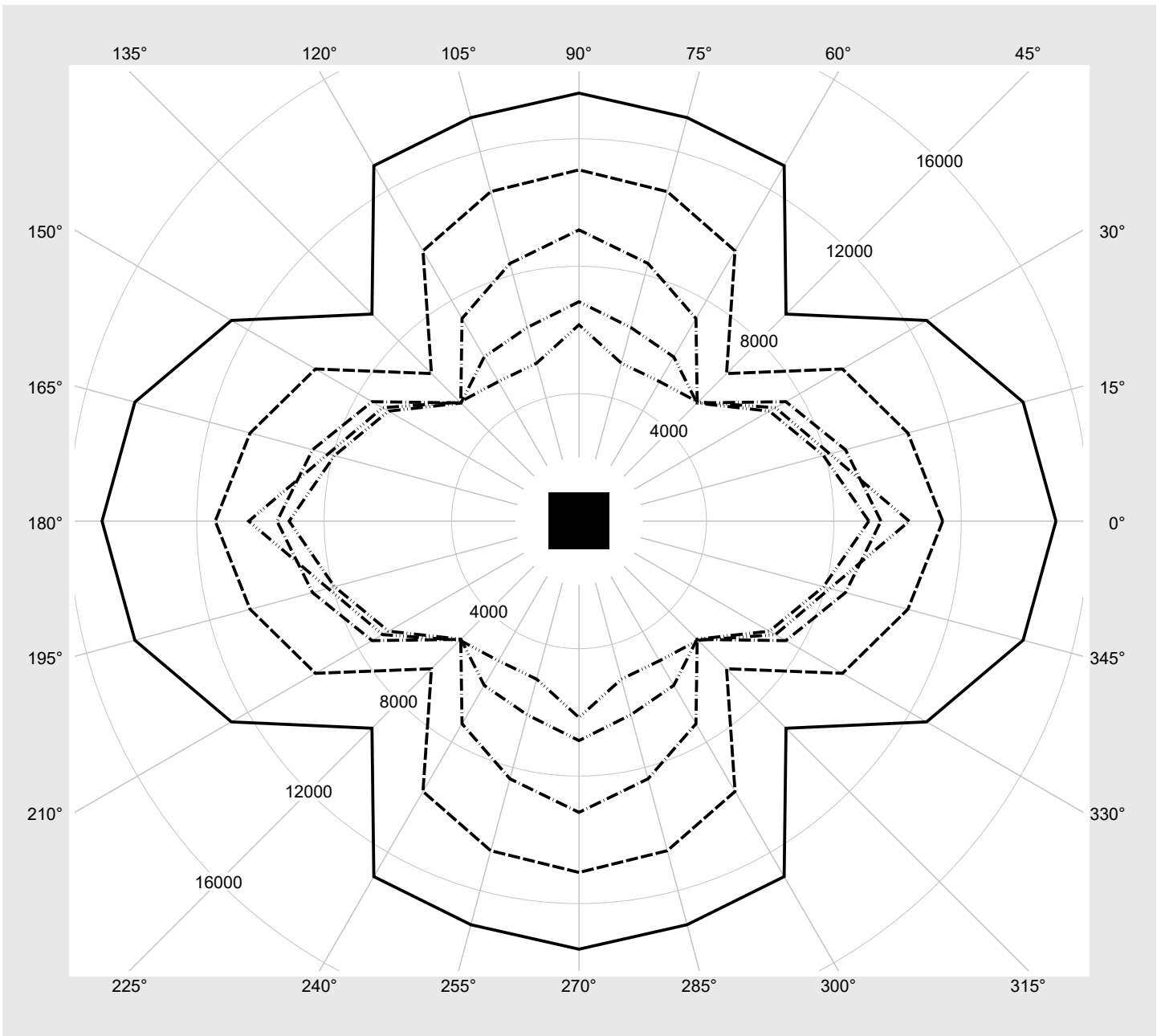
Familie
Highbay 11

Bestell-Nr.: 51HLA2D14FCAD + 59HL91004
EAN: 4058352341629 + 4058352341674

LP-Nummer
58927_7

Leuchtdichten in cd/m²

γ 65°
γ 70°
γ 75°
γ 80°
γ 85°



Lichttechnischer Prüfbefund

| | | |
|------------------------------|--|-----------------------------|
| Familie Highbay 11 | Bestell-Nr.: 51HLA2D14FCAD + 59HL91004 EAN: 4058352341629 + 4058352341674 | LP-Nummer 58927_7 |
| Dimmstufen-Tabelle | | sITeco |
| Umgebungstemperatur: 25°C | | |

| Lichtstrom [%] | Dimmstufe linear | Dimmstufe logarithmisch | Lichtstrom [lm] | Systemleistung [W] |
|----------------|------------------|-------------------------|-----------------|--------------------|
| 100 | 254 | 254 | 13110 | 81.2 |
| 95 | 241 | 252 | 12455 | 76.8 |
| 90 | 227 | 250 | 11799 | 72.5 |
| 85 | 214 | 248 | 11144 | 68.4 |
| 80 | 201 | 245 | 10488 | 64.2 |
| 75 | 188 | 243 | 9833 | 60.0 |
| 70 | 175 | 240 | 9177 | 56.0 |
| 65 | 162 | 237 | 8522 | 51.9 |
| 60 | 149 | 234 | 7866 | 48.0 |
| 55 | 136 | 231 | 7211 | 44.1 |
| 50 | 124 | 228 | 6555 | 40.2 |
| 45 | 111 | 224 | 5900 | 36.3 |
| 40 | 99 | 219 | 5244 | 32.5 |
| 35 | 86 | 215 | 4589 | 28.8 |
| 30 | 74 | 209 | 3933 | 25.1 |
| 25 | 62 | 203 | 3278 | 21.3 |
| 20 | 50 | 195 | 2622 | 17.6 |
| 15 | 38 | 185 | 1967 | 14.0 |
| 10 | 26 | 170 | 1310 | 10.4 |