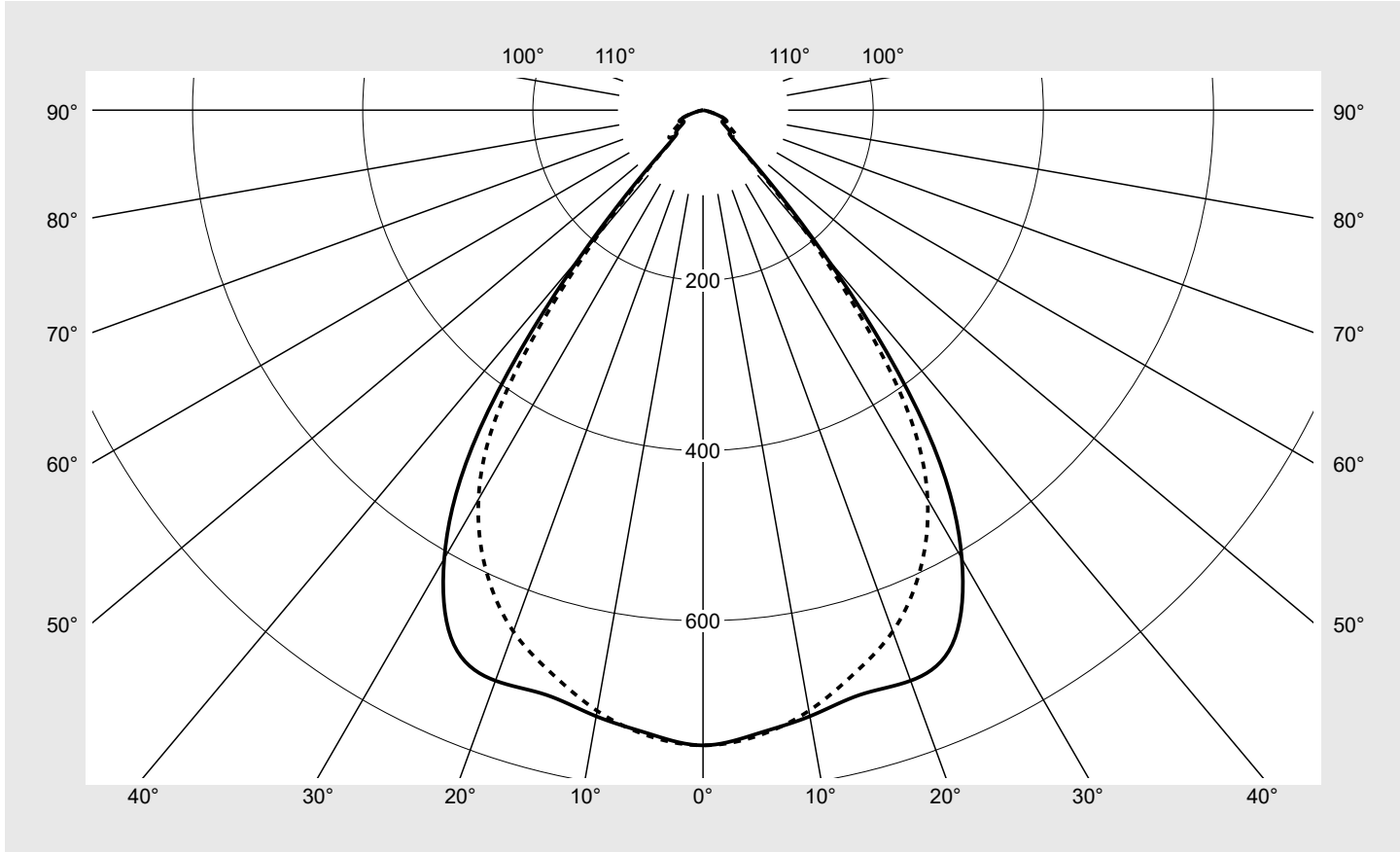


Photometric test report

| | | |
|-----------------------------|---|---|
| Family Highbay 11 | Order number: 51HL62D14DCA + 59HL91001 EAN: 4058352348918 + 4058352323519 | LP number 58924_5 |
| Version | wide distribution, UGR≤22, toughened safety glass | serial documentation 13.06.2019 |
| Lamps | LED 4000 K CRI ≥ 80 | |
| Controlgear | ECG-DALI | |
| Rated values | Net luminous flux = 9560 lm Power consumption = 55.6 W Luminous efficacy = 171.9 lm/W | |



Luminous intensity in cd/klm C180-0 C270-90 **Imax: 746 cd/klm**



| Classifications | |
|-----------------|-------------------------------------|
| DIN 5040 | A 6 0 |
| CIE | N1=88 N2=97 N3=100 N4=100 N5=100 |

| Luminaire light output ratios | |
|-------------------------------|--------|
| η_{LB} | 100.0% |
| ϕ_u | 100.0% |
| ϕ_o | 0.0% |

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

Photometric test report

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| Family Highbay 11 | Order number: 51HL62D14DCA + 59HL91001 EAN: 4058352348918 + 4058352323519 | LP number 58924_5 |
|----------------------|--|----------------------|



| | |
|--|----------------------------|
| Table of values for luminous intensities | Maximum luminous intensity |
|--|----------------------------|

| 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° | 746.3 | 746.3 | 746.3 | 746.3 | 746.3 | 746.3 | 746.3 | 4.5 | 4.5 |
| 5° | 735.3 | 737.5 | 739.7 | 739.9 | 738.3 | 739.6 | 738.0 | 35.3 | 39.7 |
| 10° | 723.2 | 726.6 | 729.4 | 728.5 | 722.4 | 719.9 | 716.7 | 69.0 | 108.7 |
| 15° | 711.3 | 717.1 | 725.5 | 723.9 | 708.1 | 693.6 | 685.6 | 100.9 | 209.6 |
| 20° | 713.4 | 718.0 | 728.3 | 720.4 | 690.5 | 663.2 | 651.9 | 131.3 | 340.9 |
| 25° | 693.0 | 694.9 | 704.2 | 693.3 | 653.0 | 614.7 | 601.0 | 154.7 | 495.6 |
| 30° | 608.4 | 605.8 | 624.6 | 634.7 | 585.4 | 537.6 | 527.9 | 162.4 | 658.1 |
| 35° | 457.7 | 465.3 | 511.3 | 544.0 | 482.6 | 417.8 | 402.1 | 149.4 | 807.5 |
| 40° | 223.2 | 249.0 | 306.2 | 349.8 | 284.7 | 219.8 | 194.6 | 95.0 | 902.5 |
| 45° | 63.3 | 67.7 | 80.1 | 90.2 | 68.6 | 60.3 | 58.8 | 27.6 | 930.1 |
| 50° | 41.6 | 37.0 | 34.8 | 39.2 | 39.3 | 44.2 | 50.6 | 16.8 | 947.0 |
| 55° | 31.4 | 29.8 | 26.5 | 27.8 | 29.3 | 36.0 | 43.6 | 14.0 | 961.0 |
| 60° | 26.5 | 29.7 | 26.3 | 21.9 | 21.3 | 25.9 | 33.0 | 12.2 | 973.2 |
| 65° | 30.8 | 23.4 | 22.4 | 19.4 | 17.1 | 22.6 | 29.4 | 11.2 | 984.4 |
| 70° | 22.6 | 17.1 | 16.5 | 15.8 | 14.1 | 17.3 | 23.9 | 8.9 | 993.3 |
| 75° | 9.7 | 7.3 | 8.1 | 9.4 | 9.5 | 10.1 | 9.9 | 4.8 | 998.1 |
| 80° | 2.5 | 2.3 | 2.6 | 3.2 | 3.7 | 3.7 | 3.7 | 1.7 | 999.8 |
| 85° | 0.2 | 0.2 | 0.3 | 0.3 | 0.6 | 0.6 | 0.7 | 0.2 | 1000.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |

Photometric test report

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| Family Highbay 11 | Order number: 51HL62D14DCA + 59HL91001 EAN: 4058352348918 + 4058352323519 | LP number 58924_5 |
|----------------------|--|----------------------|

| | | | | | | | | | | |
|-----------|---------------|--------|--|--|--|--|--|--|--|--|
| 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 | 19.4 | 20.7 | 19.7 | 21.0 | 21.3 | 18.9 | 20.2 | 19.3 | 20.5 | 20.9 |
| | 3H | 19.7 | 20.8 | 20.1 | 21.2 | 21.5 | 19.3 | 20.4 | 19.7 | 20.8 | 21.1 |
| | 4H | 19.8 | 20.8 | 20.1 | 21.2 | 21.5 | 19.4 | 20.4 | 19.8 | 20.8 | 21.2 |
| | 6H | 19.7 | 20.7 | 20.1 | 21.0 | 21.4 | 19.4 | 20.3 | 19.8 | 20.7 | 21.1 |
| | 8H | 19.8 | 20.6 | 20.2 | 21.0 | 21.4 | 19.5 | 20.3 | 19.9 | 20.7 | 21.1 |
| | 12H | 19.8 | 20.5 | 20.2 | 20.9 | 21.3 | 19.4 | 20.2 | 19.9 | 20.6 | 21.0 |
| 4H | 2H | 19.3 | 20.4 | 19.7 | 20.7 | 21.1 | 18.9 | 19.9 | 19.3 | 20.3 | 20.6 |
| | 3H | 19.7 | 20.6 | 20.1 | 21.0 | 21.4 | 19.3 | 20.2 | 19.7 | 20.6 | 21.0 |
| | 4H | 19.8 | 20.5 | 20.2 | 21.0 | 21.4 | 19.5 | 20.2 | 19.9 | 20.6 | 21.1 |
| | 6H | 19.7 | 20.4 | 20.2 | 20.8 | 21.3 | 19.5 | 20.1 | 19.9 | 20.6 | 21.0 |
| | 8H | 19.7 | 20.3 | 20.2 | 20.7 | 21.2 | 19.5 | 20.0 | 19.9 | 20.5 | 21.0 |
| | 12H | 19.7 | 20.2 | 20.2 | 20.7 | 21.2 | 19.5 | 19.9 | 20.0 | 20.4 | 20.9 |
| 8H | 4H | 19.7 | 20.3 | 20.2 | 20.8 | 21.3 | 19.4 | 20.0 | 19.9 | 20.5 | 21.0 |
| | 6H | 19.7 | 20.2 | 20.2 | 20.7 | 21.2 | 19.5 | 19.9 | 20.0 | 20.4 | 20.9 |
| | 8H | 19.6 | 20.1 | 20.2 | 20.6 | 21.1 | 19.4 | 19.9 | 19.9 | 20.3 | 20.9 |
| | 12H | 19.6 | 20.0 | 20.2 | 20.5 | 21.0 | 19.4 | 19.8 | 20.0 | 20.3 | 20.8 |
| 12H | 4H | 19.7 | 20.2 | 20.2 | 20.7 | 21.2 | 19.4 | 19.9 | 19.9 | 20.4 | 20.9 |
| | 6H | 19.7 | 20.1 | 20.2 | 20.6 | 21.1 | 19.5 | 19.8 | 20.0 | 20.3 | 20.9 |
| | 8H | 19.6 | 20.0 | 20.2 | 20.5 | 21.0 | 19.4 | 19.8 | 20.0 | 20.3 | 20.8 |

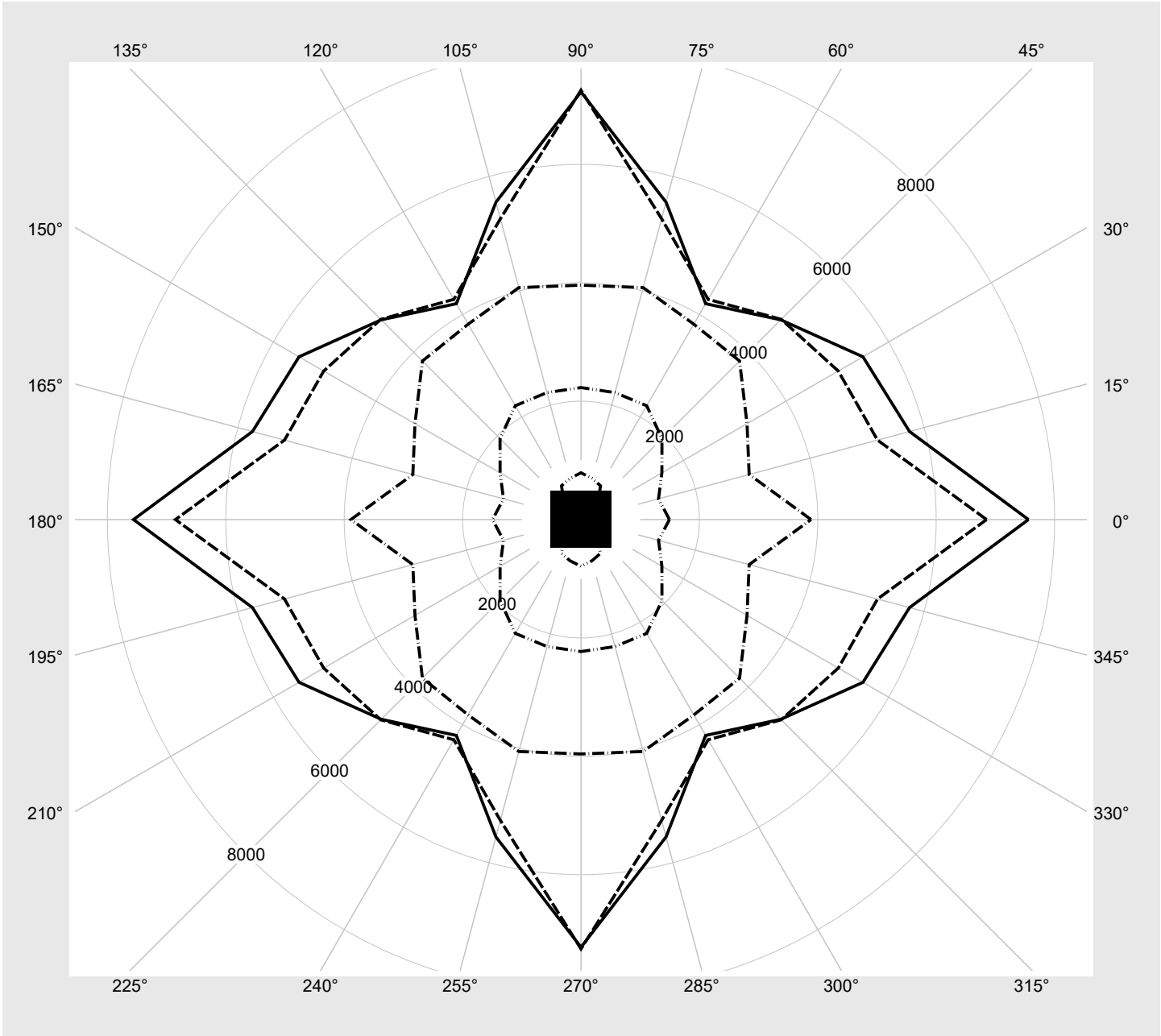
| | | | |
|-----------------|---------------------------------|-------------------------------|---------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | L = 295 |
| | | | B = 312 |

| 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° | | 9301.3 | 9940.3 | 11772.3 | 13256.5 | 10075.0 | 8855.8 | 8631.9 | |
| 50° | | 6727.3 | 5981.9 | 5615.4 | 6336.3 | 6356.9 | 7148.7 | 8171.3 | |
| 55° | | 5683.5 | 5391.0 | 4797.2 | 5027.2 | 5302.8 | 6521.9 | 7894.4 | |
| 60° | | 5501.3 | 6163.1 | 5461.2 | 4559.6 | 4426.2 | 5372.3 | 6853.6 | |
| 65° | | 7559.5 | 5745.9 | 5499.9 | 4772.2 | 4211.1 | 5551.0 | 7225.0 | |
| 70° | | 6851.8 | 5185.8 | 5018.8 | 4784.0 | 4295.7 | 5261.7 | 7253.6 | |
| 75° | | 3886.7 | 2940.8 | 3238.6 | 3788.4 | 3811.7 | 4056.5 | 3960.2 | |
| 80° | | 1493.6 | 1356.0 | 1577.9 | 1934.4 | 2220.3 | 2220.9 | 2229.9 | |
| 85° | | 264.6 | 268.1 | 306.3 | 404.0 | 659.0 | 719.8 | 790.1 | |

Photometric test report

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



Photometric test report

| | | |
|----------------------|--|----------------------|
| Family Highbay 11 | Order number: 51HL62D14DCA + 59HL91001 EAN: 4058352348918 + 4058352323519 | LP number 58924_5 |
|----------------------|--|----------------------|

| | | |
|----------------------|---------------------------------|---------------|
| 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 | 9560 | 55.6 |
| 95 | 241 | 252 | 9082 | 52.7 |
| 90 | 228 | 250 | 8604 | 49.9 |
| 85 | 215 | 248 | 8126 | 47.1 |
| 80 | 202 | 246 | 7648 | 44.6 |
| 75 | 189 | 244 | 7170 | 41.8 |
| 70 | 176 | 241 | 6692 | 39.1 |
| 65 | 163 | 238 | 6214 | 36.4 |
| 60 | 151 | 236 | 5736 | 33.8 |
| 55 | 138 | 233 | 5258 | 31.1 |
| 50 | 125 | 230 | 4780 | 28.5 |
| 45 | 113 | 226 | 4302 | 26.0 |
| 40 | 100 | 222 | 3824 | 23.4 |
| 35 | 88 | 218 | 3346 | 20.8 |
| 30 | 76 | 213 | 2868 | 18.3 |
| 25 | 63 | 208 | 2390 | 15.8 |
| 20 | 51 | 201 | 1912 | 13.2 |
| 15 | 39 | 194 | 1434 | 10.7 |
| 10 | 27 | 184 | 955 | 8.2 |