

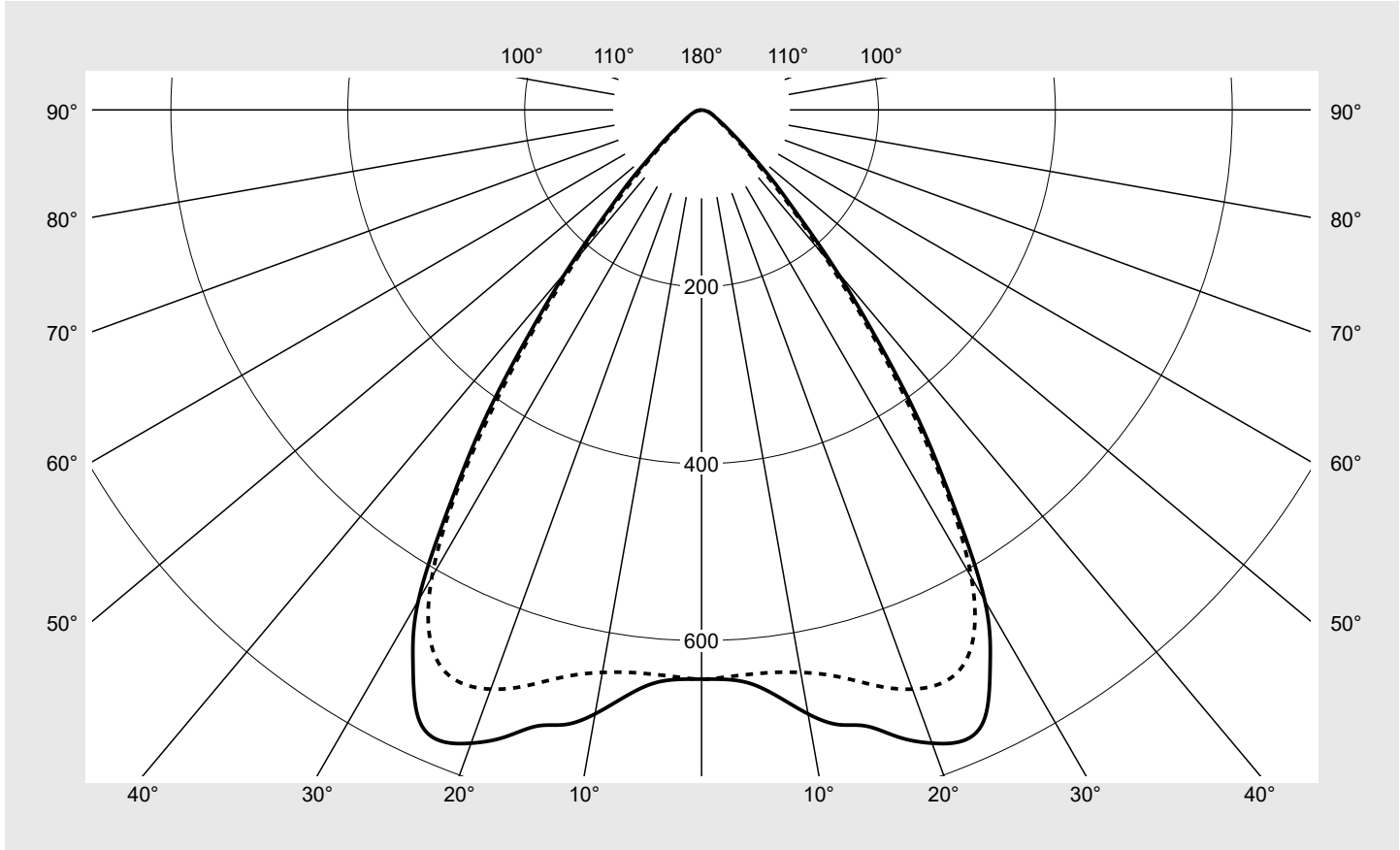


Photometric test report

| | | |
|---|--|---|
| Family Highbay 11 | Order number: 51HN12DA6JEA EAN: 4069025686091 | LP number 59710_533 |
|  | Version primary light control with lens, PMMA, housing, white, wide distribution Lamps LED 6500 K CRI ≥ 80 Controlgear ECG-DALI Setting AC-mode | serial documentation 06.02.2026 |
| | Rated values Net luminous flux = 21810 lm Power consumption = 117.2 W Luminous efficacy = 186.1 lm/W |  |

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 772 cd/klm**



| Classifications | |
|-----------------|-------------------------------------|
| DIN 5040 | A 6 0 |
| CIE | N1=88 N2=98 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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|--|--|----------------------------|
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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 | |
| 0,0° | 643.6 | 643.6 | 643.6 | 643.6 | 643.6 | 643.6 | 643.6 | 1.0 | 1.0 |
| 2,5° | 644.5 | 645.1 | 645.0 | 644.3 | 644.2 | 643.7 | 641.7 | 7.7 | 8.7 |
| 5,0° | 651.5 | 652.3 | 650.7 | 647.5 | 645.3 | 643.2 | 640.4 | 15.5 | 24.1 |
| 7,5° | 669.6 | 669.1 | 664.2 | 657.2 | 651.2 | 645.8 | 641.3 | 23.5 | 47.6 |
| 10,0° | 693.4 | 691.0 | 681.5 | 670.0 | 659.9 | 651.2 | 645.8 | 31.9 | 79.6 |
| 12,5° | 711.8 | 709.4 | 700.3 | 685.9 | 671.9 | 660.7 | 654.0 | 40.7 | 120.2 |
| 15,0° | 721.3 | 721.7 | 717.1 | 704.9 | 689.4 | 675.9 | 667.7 | 49.7 | 169.9 |
| 17,5° | 743.8 | 740.8 | 737.9 | 726.5 | 708.9 | 693.0 | 684.2 | 59.4 | 229.3 |
| 20,0° | 761.9 | 761.9 | 759.6 | 745.2 | 724.0 | 705.6 | 696.8 | 69.2 | 298.5 |
| 22,5° | 772.0 | 771.2 | 770.0 | 754.7 | 731.1 | 710.8 | 702.6 | 78.2 | 376.7 |
| 25,0° | 758.1 | 756.6 | 756.3 | 743.6 | 722.7 | 703.3 | 695.6 | 85.1 | 461.8 |
| 27,5° | 706.7 | 709.5 | 709.5 | 700.0 | 685.7 | 672.3 | 667.0 | 87.8 | 549.7 |
| 30,0° | 640.4 | 635.6 | 633.7 | 626.6 | 621.7 | 614.1 | 609.9 | 85.8 | 635.5 |
| 32,5° | 530.6 | 537.6 | 535.6 | 526.2 | 530.2 | 524.1 | 520.8 | 78.1 | 713.6 |
| 35,0° | 428.2 | 426.4 | 425.9 | 411.9 | 420.8 | 414.2 | 411.4 | 66.0 | 779.6 |
| 37,5° | 322.5 | 323.4 | 327.0 | 311.0 | 319.4 | 310.8 | 308.2 | 53.0 | 832.6 |
| 40,0° | 236.1 | 234.0 | 241.6 | 230.8 | 230.9 | 219.8 | 218.4 | 40.7 | 873.3 |
| 42,5° | 162.3 | 165.3 | 172.9 | 171.1 | 161.7 | 151.3 | 150.8 | 30.2 | 903.5 |
| 45,0° | 117.3 | 114.9 | 119.4 | 122.5 | 109.3 | 102.6 | 102.3 | 21.9 | 925.4 |
| 47,5° | 80.5 | 81.4 | 82.8 | 85.5 | 75.2 | 71.4 | 70.8 | 15.9 | 941.3 |
| 50,0° | 59.4 | 58.0 | 58.0 | 59.0 | 52.9 | 50.5 | 49.6 | 11.7 | 953.0 |
| 52,5° | 43.3 | 42.8 | 42.8 | 43.0 | 39.3 | 37.2 | 36.6 | 8.9 | 961.8 |
| 55,0° | 33.3 | 32.4 | 32.9 | 33.7 | 30.5 | 28.7 | 28.3 | 7.1 | 968.9 |
| 57,5° | 25.9 | 25.4 | 25.9 | 26.8 | 24.5 | 22.9 | 22.9 | 5.8 | 974.7 |
| 60,0° | 20.9 | 20.2 | 21.2 | 21.8 | 20.4 | 18.9 | 19.2 | 4.9 | 979.5 |
| 62,5° | 16.9 | 16.2 | 17.4 | 18.0 | 17.2 | 15.9 | 16.4 | 4.1 | 983.6 |
| 65,0° | 14.9 | 13.6 | 14.4 | 15.1 | 14.8 | 13.6 | 14.4 | 3.6 | 987.2 |
| 67,5° | 12.3 | 11.4 | 12.5 | 12.4 | 13.0 | 11.7 | 12.6 | 3.1 | 990.3 |
| 70,0° | 10.4 | 9.5 | 10.5 | 10.1 | 11.1 | 10.1 | 11.0 | 2.7 | 993.0 |
| 72,5° | 8.2 | 7.7 | 7.9 | 8.2 | 8.7 | 8.6 | 9.5 | 2.2 | 995.2 |
| 75,0° | 6.5 | 6.0 | 6.0 | 6.4 | 6.6 | 7.1 | 7.9 | 1.7 | 996.9 |
| 77,5° | 4.5 | 4.3 | 4.4 | 4.7 | 5.1 | 5.6 | 6.3 | 1.3 | 998.2 |
| 80,0° | 2.9 | 2.7 | 2.9 | 3.1 | 3.5 | 4.1 | 4.7 | 0.9 | 999.1 |
| 82,5° | 1.3 | 1.4 | 1.6 | 1.8 | 2.2 | 2.7 | 3.3 | 0.5 | 999.7 |
| 85,0° | 0.6 | 0.6 | 0.6 | 0.7 | 1.0 | 1.4 | 1.8 | 0.3 | 999.9 |
| 87,5° | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.5 | 0.1 | 1000.0 |
| 90,0° | 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 | 21.2 | 22.5 | 21.6 | 22.8 | 23.1 | 20.9 | 22.2 | 21.3 | 22.5 | 22.8 |
| | 3H | 21.2 | 22.4 | 21.6 | 22.7 | 23.0 | 20.9 | 22.1 | 21.3 | 22.4 | 22.8 |
| | 4H | 21.2 | 22.3 | 21.6 | 22.6 | 23.0 | 21.0 | 22.0 | 21.4 | 22.4 | 22.7 |
| | 6H | 21.2 | 22.1 | 21.6 | 22.5 | 22.9 | 21.0 | 21.9 | 21.4 | 22.3 | 22.7 |
| | 8H | 21.3 | 22.1 | 21.7 | 22.4 | 22.8 | 21.1 | 21.9 | 21.5 | 22.3 | 22.7 |
| | 12H | 21.2 | 22.0 | 21.7 | 22.4 | 22.8 | 21.1 | 21.8 | 21.5 | 22.2 | 22.6 |
| 4H | 2H | 21.1 | 22.2 | 21.5 | 22.5 | 22.9 | 20.8 | 21.9 | 21.2 | 22.2 | 22.6 |
| | 3H | 21.2 | 22.0 | 21.6 | 22.4 | 22.8 | 20.9 | 21.8 | 21.3 | 22.2 | 22.6 |
| | 4H | 21.2 | 21.9 | 21.6 | 22.3 | 22.8 | 20.9 | 21.7 | 21.4 | 22.1 | 22.6 |
| | 6H | 21.1 | 21.8 | 21.6 | 22.2 | 22.7 | 21.0 | 21.6 | 21.5 | 22.1 | 22.5 |
| | 8H | 21.1 | 21.7 | 21.6 | 22.1 | 22.6 | 21.0 | 21.6 | 21.5 | 22.0 | 22.5 |
| | 12H | 21.1 | 21.6 | 21.6 | 22.0 | 22.5 | 21.0 | 21.5 | 21.5 | 22.0 | 22.5 |
| 8H | 4H | 21.1 | 21.7 | 21.6 | 22.1 | 22.6 | 20.9 | 21.5 | 21.4 | 21.9 | 22.4 |
| | 6H | 21.1 | 21.5 | 21.6 | 22.0 | 22.5 | 20.9 | 21.4 | 21.4 | 21.9 | 22.4 |
| | 8H | 21.0 | 21.4 | 21.5 | 21.9 | 22.5 | 20.9 | 21.4 | 21.5 | 21.9 | 22.4 |
| | 12H | 21.0 | 21.3 | 21.5 | 21.8 | 22.4 | 21.0 | 21.3 | 21.5 | 21.8 | 22.4 |
| 12H | 4H | 21.1 | 21.6 | 21.6 | 22.0 | 22.5 | 20.9 | 21.4 | 21.4 | 21.8 | 22.3 |
| | 6H | 21.1 | 21.4 | 21.6 | 21.9 | 22.5 | 20.9 | 21.3 | 21.5 | 21.8 | 22.3 |
| | 8H | 21.0 | 21.3 | 21.6 | 21.9 | 22.4 | 21.0 | 21.3 | 21.5 | 21.8 | 22.3 |

| | | | |
|-----------------|---------------------------------|-------------------------------|--------------------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | L = 426 B = 264 |
|-----------------|---------------------------------|-------------------------------|--------------------|

| 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° |
| 45,0° | | 32177.2 | 31507.2 | 32751.2 | 33590.7 | 29967.5 | 28136.5 | 28053.7 |
| 50,0° | | 17927.9 | 17504.0 | 17485.6 | 17797.9 | 15970.8 | 15227.7 | 14966.4 |
| 55,0° | | 11266.7 | 10965.4 | 11121.9 | 11377.2 | 10320.6 | 9701.6 | 9584.9 |
| 60,0° | | 8103.5 | 7822.7 | 8219.5 | 8466.2 | 7926.6 | 7340.6 | 7434.1 |
| 65,0° | | 6837.7 | 6220.0 | 6629.8 | 6915.7 | 6772.1 | 6262.7 | 6616.5 |
| 70,0° | | 5877.1 | 5362.2 | 5931.5 | 5738.7 | 6295.5 | 5730.8 | 6258.7 |
| 75,0° | | 4843.4 | 4486.0 | 4474.0 | 4784.9 | 4971.5 | 5321.4 | 5932.1 |
| 80,0° | | 3270.0 | 3051.1 | 3228.6 | 3487.7 | 3936.7 | 4630.2 | 5278.0 |
| 85,0° | | 1306.1 | 1299.4 | 1341.7 | 1570.9 | 2323.0 | 3095.1 | 4009.6 |

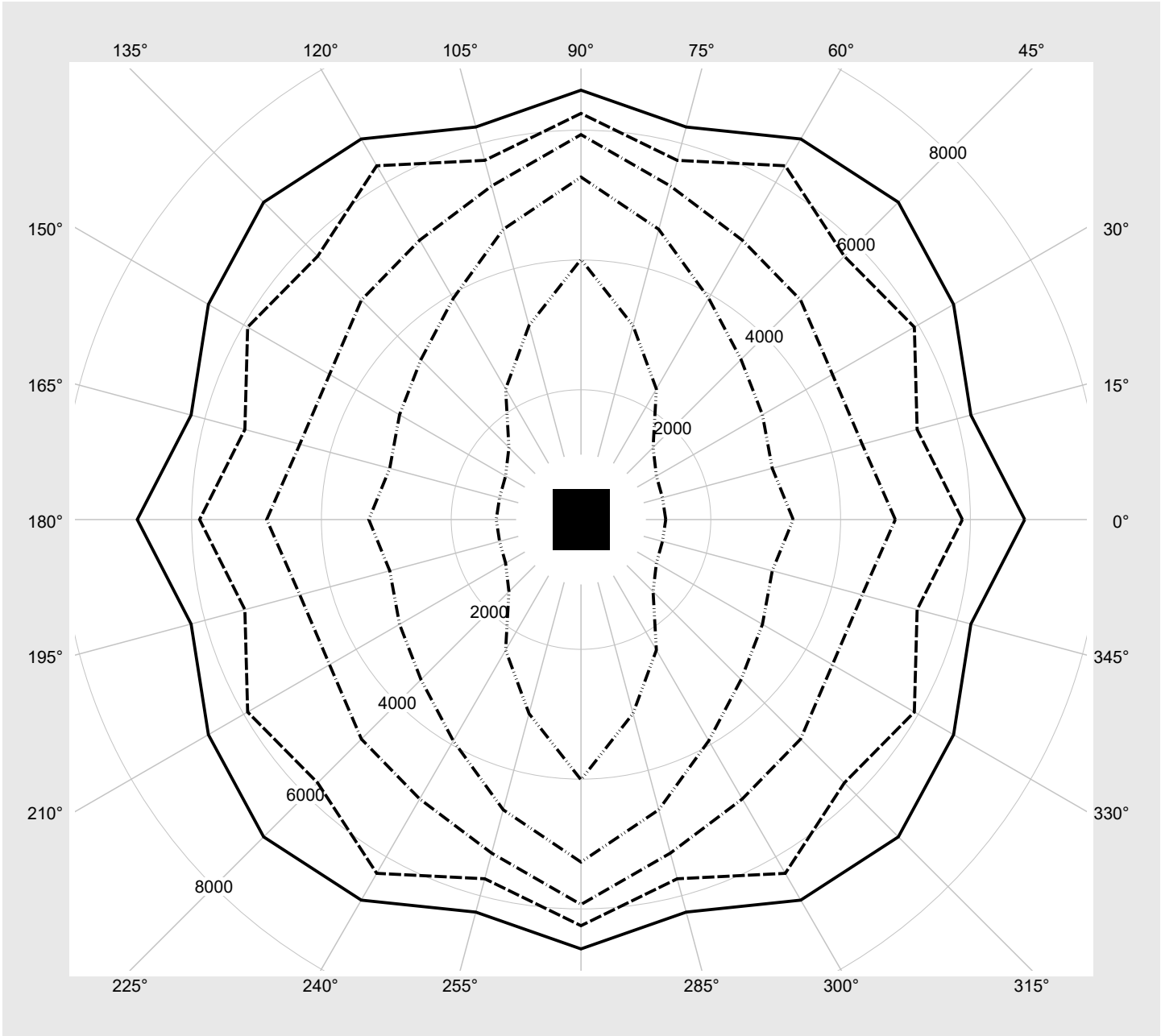
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Luminance values in cd/m²

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 | 21810 | 117.2 |
| 95 | 240 | 252 | 20689 | 110.5 |
| 90 | 227 | 250 | 19642 | 104.4 |
| 85 | 213 | 248 | 18501 | 97.8 |
| 80 | 200 | 245 | 17437 | 91.6 |
| 75 | 187 | 243 | 16361 | 85.6 |
| 70 | 174 | 240 | 15282 | 79.4 |
| 65 | 161 | 237 | 14191 | 73.5 |
| 60 | 148 | 234 | 13093 | 67.6 |
| 55 | 135 | 231 | 11987 | 61.6 |
| 50 | 122 | 227 | 10874 | 55.5 |
| 45 | 110 | 223 | 9839 | 50.0 |
| 40 | 97 | 219 | 8705 | 44.2 |
| 35 | 85 | 214 | 7653 | 38.9 |
| 30 | 72 | 208 | 6501 | 33.1 |
| 25 | 60 | 201 | 5432 | 27.8 |
| 20 | 48 | 193 | 4355 | 22.6 |
| 15 | 36 | 182 | 3265 | 17.4 |
| 10 | 24 | 168 | 2171 | 12.0 |
| 5 | 12 | 142 | 1063 | 6.5 |
| 2 | 6 | 117 | 508 | 3.8 |