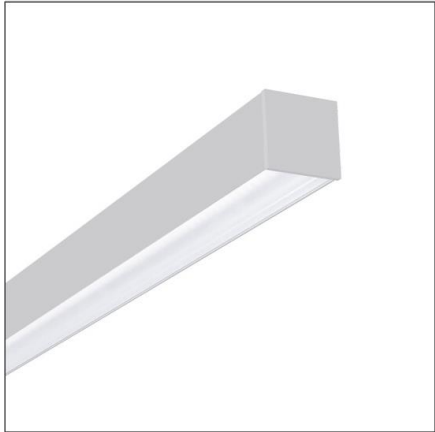
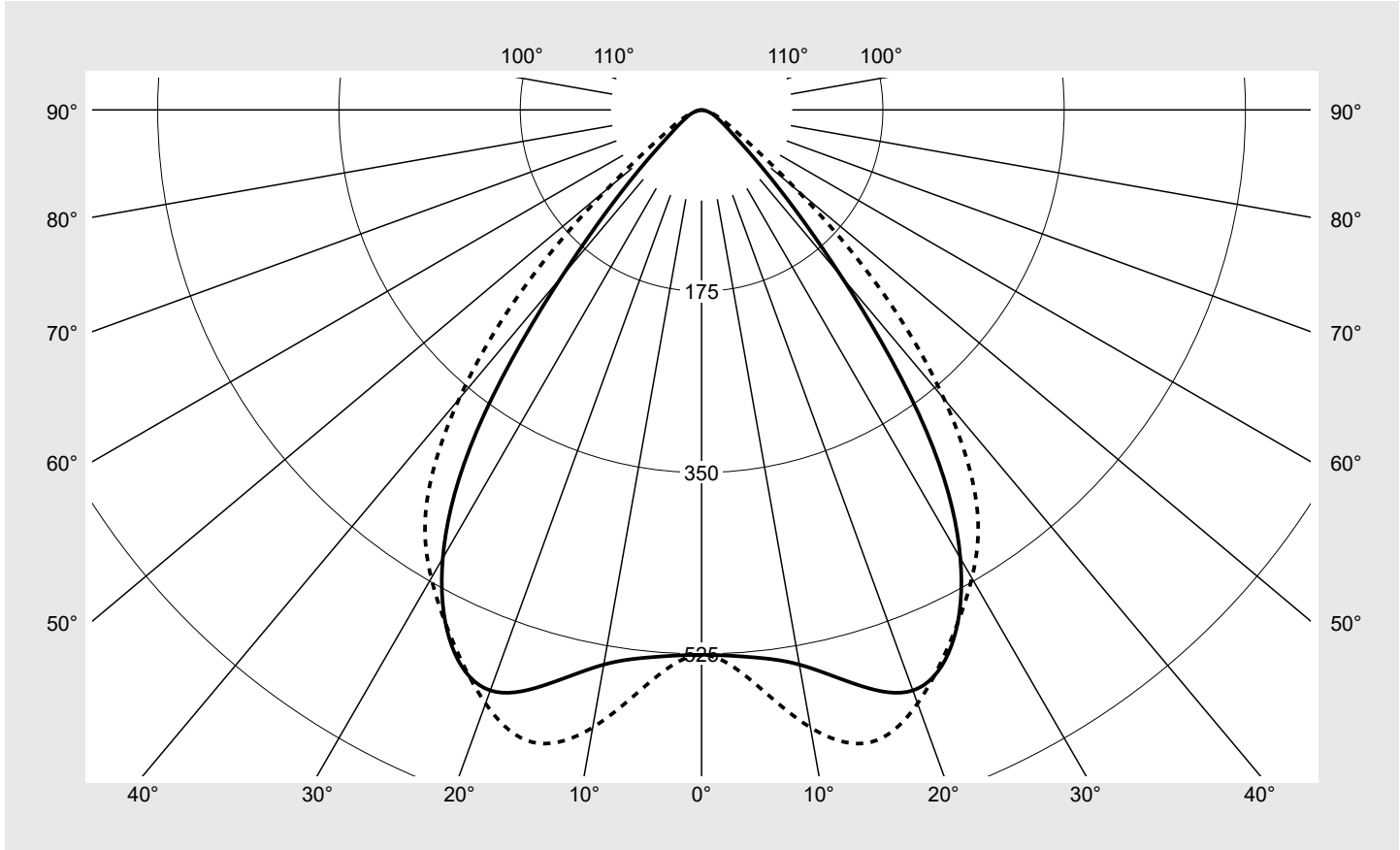


Photometric test report

| | | |
|--|--|---|
| Family Silica®  | Order number: 5MX31BD1W4A EAN: 4058352305447 | LP number 58997_7 |
| | Version Suspended luminaire, Combined lens and reflector optics, frosted cover, direct-/ indirect distribution, UGR≤19 (L65≤3000cd/m²) | serial documentation 07.10.2020 |
| Lamps LED 4000 K CRI ≥ 80 | | |
| Controlgear ECG-DALI | | |
| Setting individual position: only direct light | | |
| Rated values Net luminous flux = 4950 lm Power consumption = 29.3 W Luminous efficacy = 168.9 lm/W | | |

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 653 cd/klm**



| Classifications | |
|-----------------|-------------------------------------|
| DIN 5040 | A 6 0 |
| CIE | N1=82 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

| | | |
|--|---|-----------------------------|
| Family Silica® | Order number: 5MX31BD1W4A EAN: 4058352305447 | LP number 58997_7 |
| 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° | 525.9 | 525.9 | 525.9 | 525.9 | 525.9 | 525.9 | 525.9 | 3.1 | 3.1 |
| 5° | 530.1 | 532.1 | 531.7 | 539.8 | 547.4 | 550.9 | 553.0 | 25.8 | 29.0 |
| 10° | 543.6 | 552.3 | 561.3 | 580.0 | 594.8 | 602.1 | 605.3 | 55.0 | 83.9 |
| 15° | 573.7 | 588.4 | 603.0 | 623.3 | 632.9 | 632.0 | 631.7 | 87.1 | 171.0 |
| 20° | 596.3 | 620.1 | 639.0 | 641.8 | 629.5 | 614.8 | 609.6 | 117.1 | 288.1 |
| 25° | 570.6 | 616.7 | 653.0 | 638.7 | 597.2 | 573.3 | 567.1 | 140.8 | 429.0 |
| 30° | 499.6 | 560.3 | 609.4 | 604.2 | 567.1 | 527.4 | 521.8 | 154.4 | 583.3 |
| 35° | 378.2 | 424.0 | 476.5 | 520.1 | 513.0 | 469.3 | 462.5 | 147.9 | 731.2 |
| 40° | 210.0 | 238.9 | 292.3 | 362.7 | 384.1 | 367.3 | 364.2 | 113.5 | 844.7 |
| 45° | 100.2 | 117.8 | 146.5 | 199.3 | 232.4 | 237.2 | 242.0 | 71.3 | 916.1 |
| 50° | 49.1 | 55.7 | 69.4 | 82.4 | 93.7 | 107.9 | 119.5 | 34.5 | 950.6 |
| 55° | 30.0 | 32.2 | 36.5 | 41.6 | 42.2 | 47.4 | 55.6 | 18.2 | 968.7 |
| 60° | 20.2 | 21.0 | 22.3 | 23.8 | 24.3 | 28.1 | 32.8 | 11.6 | 980.3 |
| 65° | 14.7 | 14.9 | 15.1 | 15.2 | 15.9 | 19.0 | 21.0 | 8.1 | 988.4 |
| 70° | 10.4 | 10.5 | 10.3 | 10.1 | 10.5 | 12.3 | 12.9 | 5.6 | 994.0 |
| 75° | 6.2 | 6.2 | 6.1 | 6.1 | 6.3 | 7.1 | 7.3 | 3.4 | 997.4 |
| 80° | 3.3 | 3.3 | 3.3 | 3.3 | 3.4 | 3.8 | 3.9 | 1.9 | 999.3 |
| 85° | 1.2 | 1.2 | 1.2 | 1.3 | 1.3 | 1.4 | 1.5 | 0.7 | 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

| | | |
|--------------------------|---|-----------------------------|
| Family Silica® | Order number: 5MX31BD1W4A EAN: 4058352305447 | LP number 58997_7 |
|--------------------------|---|-----------------------------|

| | | |
|------------------|----------------------|---------------|
| 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 | 17.4 | 18.7 | 17.7 | 19.0 | 19.3 | 19.2 | 20.5 | 19.5 | 20.8 | 21.1 |
| | 3H | 17.4 | 18.5 | 17.7 | 18.9 | 19.2 | 19.2 | 20.4 | 19.6 | 20.7 | 21.0 |
| | 4H | 17.3 | 18.4 | 17.7 | 18.8 | 19.2 | 19.2 | 20.2 | 19.6 | 20.6 | 21.0 |
| | 6H | 17.3 | 18.3 | 17.7 | 18.7 | 19.1 | 19.1 | 20.1 | 19.5 | 20.5 | 20.9 |
| | 8H | 17.4 | 18.2 | 17.8 | 18.6 | 19.0 | 19.2 | 20.0 | 19.6 | 20.4 | 20.8 |
| | 12H | 17.3 | 18.2 | 17.8 | 18.6 | 19.0 | 19.2 | 20.0 | 19.6 | 20.3 | 20.8 |
| 4H | 2H | 17.3 | 18.4 | 17.7 | 18.7 | 19.1 | 19.0 | 20.1 | 19.4 | 20.5 | 20.9 |
| | 3H | 17.3 | 18.2 | 17.7 | 18.6 | 19.0 | 19.0 | 19.9 | 19.5 | 20.3 | 20.8 |
| | 4H | 17.3 | 18.1 | 17.8 | 18.5 | 19.0 | 19.0 | 19.8 | 19.5 | 20.2 | 20.7 |
| | 6H | 17.3 | 18.0 | 17.8 | 18.4 | 18.9 | 19.0 | 19.7 | 19.5 | 20.1 | 20.6 |
| | 8H | 17.3 | 17.9 | 17.7 | 18.3 | 18.8 | 19.0 | 19.6 | 19.5 | 20.0 | 20.5 |
| | 12H | 17.3 | 17.8 | 17.8 | 18.3 | 18.8 | 19.0 | 19.5 | 19.5 | 20.0 | 20.5 |
| 8H | 4H | 17.2 | 17.9 | 17.7 | 18.3 | 18.8 | 18.9 | 19.6 | 19.4 | 20.0 | 20.5 |
| | 6H | 17.2 | 17.7 | 17.7 | 18.2 | 18.7 | 18.9 | 19.4 | 19.4 | 19.9 | 20.4 |
| | 8H | 17.2 | 17.6 | 17.7 | 18.1 | 18.7 | 18.9 | 19.3 | 19.4 | 19.8 | 20.3 |
| | 12H | 17.2 | 17.6 | 17.7 | 18.1 | 18.6 | 18.9 | 19.2 | 19.4 | 19.7 | 20.3 |
| 12H | 4H | 17.3 | 17.8 | 17.8 | 18.2 | 18.7 | 18.9 | 19.5 | 19.4 | 19.9 | 20.4 |
| | 6H | 17.2 | 17.6 | 17.7 | 18.1 | 18.6 | 18.9 | 19.3 | 19.4 | 19.8 | 20.3 |
| | 8H | 17.2 | 17.6 | 17.7 | 18.1 | 18.6 | 18.9 | 19.2 | 19.4 | 19.7 | 20.3 |

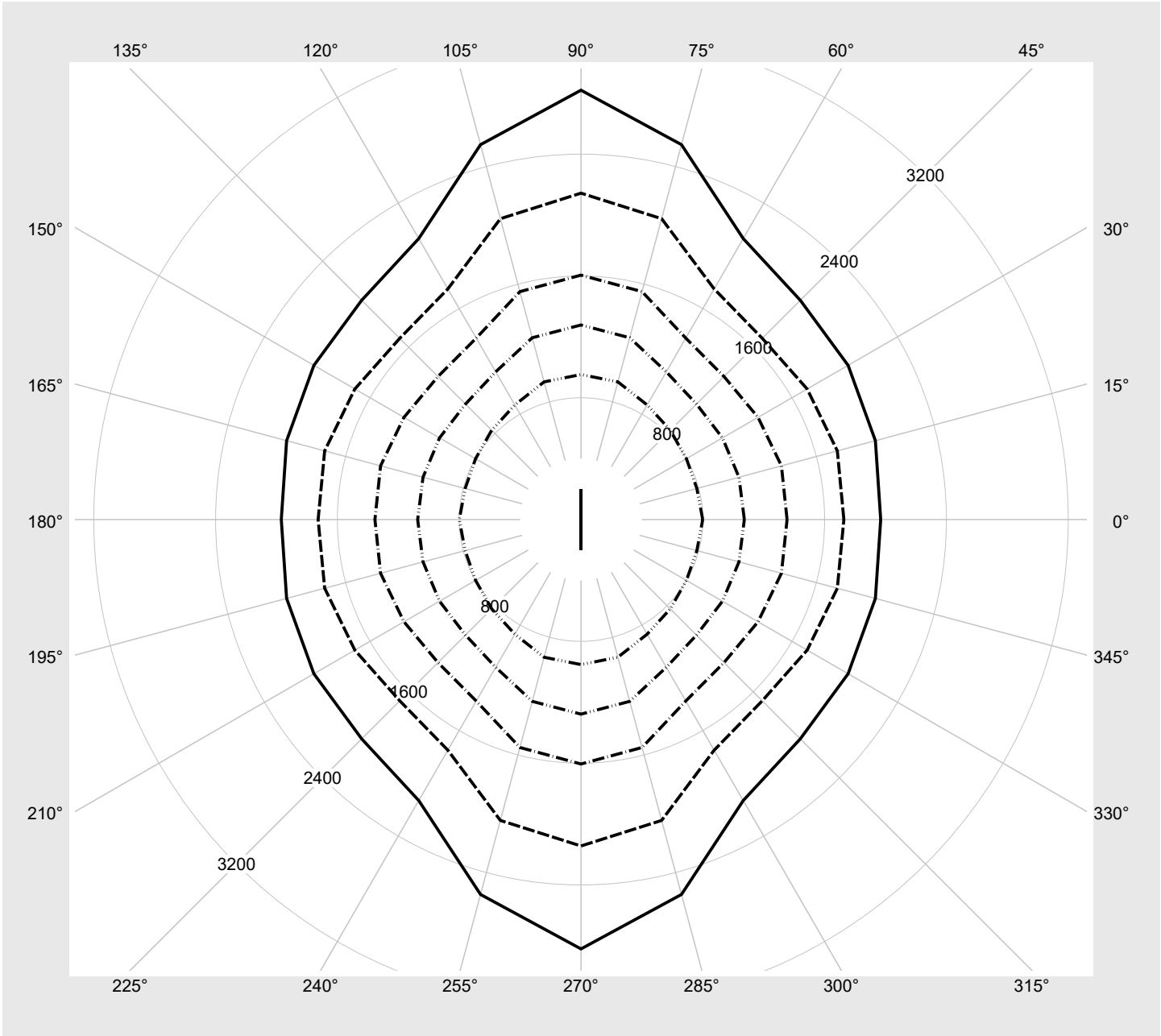
| | | | |
|------------------------|---|--------------------------------------|----------------------------------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | L = 1430 B = 61 |
|------------------------|---|--------------------------------------|----------------------------------|

| 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° | | 8038.1 | 9456.8 | 11760.3 | 15995.8 | 18651.5 | 19037.9 | 19421.2 | |
| 50° | | 4334.1 | 4919.8 | 6128.1 | 7270.5 | 8268.0 | 9521.2 | 10551.0 | |
| 55° | | 2964.5 | 3189.3 | 3607.1 | 4115.5 | 4171.1 | 4693.7 | 5501.3 | |
| 60° | | 2293.7 | 2386.3 | 2529.1 | 2700.3 | 2761.4 | 3191.4 | 3721.3 | |
| 65° | | 1968.5 | 2001.8 | 2025.8 | 2037.1 | 2131.2 | 2549.5 | 2820.2 | |
| 70° | | 1726.5 | 1742.9 | 1715.2 | 1683.5 | 1749.2 | 2045.9 | 2144.0 | |
| 75° | | 1353.4 | 1362.9 | 1342.7 | 1328.4 | 1376.2 | 1549.9 | 1605.6 | |
| 80° | | 1072.9 | 1074.2 | 1072.9 | 1072.9 | 1120.6 | 1236.2 | 1278.1 | |
| 85° | | 799.5 | 787.8 | 799.5 | 829.5 | 869.2 | 936.3 | 952.5 | |

Photometric test report

| | | |
|--------------------------|---|-----------------------------|
| Family Silica® | Order number: 5MX31BD1W4A EAN: 4058352305447 | LP number 58997_7 |
|--------------------------|---|-----------------------------|

Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85°



Photometric test report

| | | |
|--------------------------|---|-----------------------------|
| Family Silica® | Order number: 5MX31BD1W4A EAN: 4058352305447 | LP number 58997_7 |
|--------------------------|---|-----------------------------|

| | | |
|-----------------------------|---------------------------------|---------------|
| 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 | 4950 | 29.3 |
| 95 | 241 | 252 | 4706 | 27.9 |
| 90 | 228 | 250 | 4462 | 26.4 |
| 85 | 215 | 248 | 4216 | 24.9 |
| 80 | 202 | 246 | 3969 | 23.5 |
| 75 | 189 | 243 | 3720 | 22.0 |
| 70 | 176 | 241 | 3470 | 20.6 |
| 65 | 163 | 238 | 3218 | 19.2 |
| 60 | 150 | 235 | 2965 | 17.8 |
| 55 | 138 | 232 | 2730 | 16.4 |
| 50 | 125 | 228 | 2475 | 15.1 |
| 45 | 113 | 224 | 2237 | 13.7 |
| 40 | 100 | 220 | 1978 | 12.4 |
| 35 | 88 | 215 | 1739 | 11.1 |
| 30 | 75 | 209 | 1477 | 9.7 |
| 25 | 63 | 203 | 1235 | 8.4 |
| 20 | 51 | 195 | 991 | 7.2 |
| 15 | 39 | 185 | 746 | 5.9 |
| 10 | 27 | 172 | 500 | 4.7 |
| 5 | 15 | 150 | 253 | 3.6 |
| 2 | 8 | 127 | 108 | 2.8 |