

## Lichttechnischer Prüfbefund

**Familie**  
**Sport 31**

**Bestell-Nr.: 51HS12DC4DCA**  
**EAN: 4058352501795**

**LP-Nummer**  
**59187\_2**



**Ausführung** CDP Mikroprismenoptik, breit strahlend  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-DALI  
**Bemessungswerte** Nettolichtstrom = 8000 lm  
 Systemleistung = 59.4 W  
 Lichtausbeute = 134.7 lm/W

**Seriendokumentation**  
27.07.2021

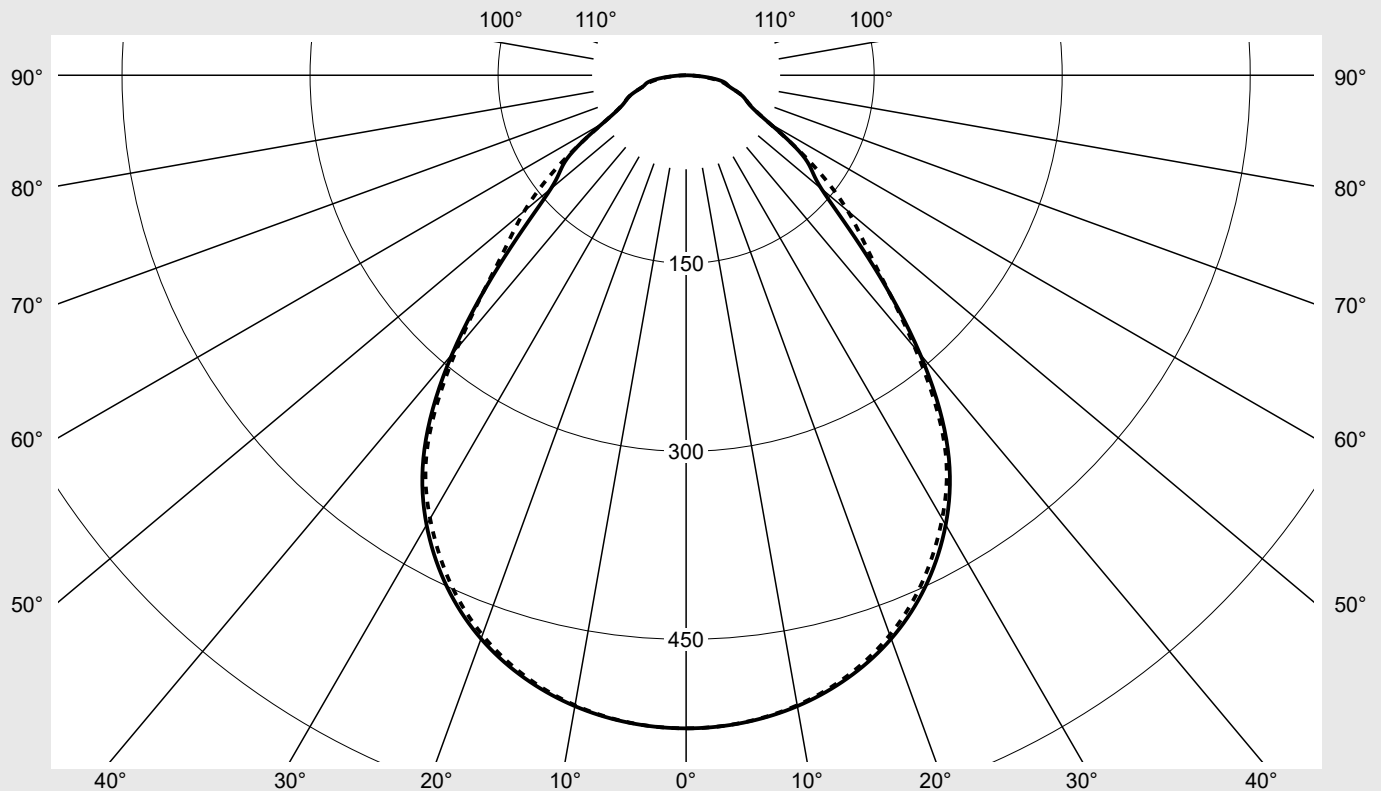
**siteco**

**Lichtstärke in cd/klm**

**C180-0**

**C270-90**

**Imax: 521 cd/klm**



**Klassifizierungen**

DIN 5040 A 5 0  
 CIE N1=65 N2=89 N3=97  
 N4=100 N5=100

**Leuchtenbetriebswirkungsgrade**

$\eta_{LB}$  100,0%  
 $\phi_u$  100,0%  
 $\phi_o$  0,0%

**Messbedingungen**

DIN EN 13032 und DIN 5032

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|                                   |   |                                    |
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|  |                             |               |
|--|-----------------------------|---------------|
| <b>Wertetabelle Lichtstärkemessung</b> | <b>Maximale Lichtstärke</b> | <b>sITeco</b> |
|--|-----------------------------|---------------|

| C-<br>Ebenen          | 0°<br>180° | 15°                  | 30°                  | 45°                  | 60°                  | 75°                  | 90°<br>270° | Phi-Zone             | Summe<br>Phi-Zone |
|-----------------------|------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------|----------------------|-------------------|
|                       |            | 165°<br>195°<br>345° | 150°<br>210°<br>330° | 135°<br>225°<br>315° | 120°<br>240°<br>300° | 105°<br>255°<br>285° |             |                      |                   |
| Lichtstärke in cd/klm |            |                      |                      |                      |                      |                      |             |                      |                   |
| γ                     |            |                      |                      |                      |                      |                      |             | Lichtstrom in lm/klm |                   |
| 0°                    | 521.0      | 521.0                | 521.0                | 521.0                | 521.0                | 521.0                | 521.0       | 3.1                  | 3.1               |
| 5°                    | 518.5      | 518.4                | 518.3                | 518.4                | 518.2                | 518.1                | 518.3       | 24.8                 | 27.9              |
| 10°                   | 511.0      | 510.9                | 510.6                | 510.5                | 510.1                | 510.0                | 510.3       | 48.6                 | 76.5              |
| 15°                   | 497.9      | 497.5                | 497.3                | 497.0                | 496.5                | 496.2                | 496.2       | 70.5                 | 147.0             |
| 20°                   | 478.3      | 478.1                | 477.4                | 476.3                | 475.5                | 474.9                | 475.1       | 89.3                 | 236.3             |
| 25°                   | 450.9      | 450.8                | 450.2                | 448.2                | 446.4                | 445.5                | 446.0       | 103.8                | 340.1             |
| 30°                   | 414.1      | 414.8                | 414.4                | 411.1                | 407.7                | 407.5                | 408.5       | 112.7                | 452.8             |
| 35°                   | 363.9      | 366.3                | 367.3                | 360.9                | 355.6                | 356.6                | 359.3       | 113.6                | 566.4             |
| 40°                   | 290.4      | 294.7                | 297.0                | 285.4                | 277.5                | 279.3                | 284.1       | 101.1                | 667.5             |
| 45°                   | 204.6      | 218.3                | 229.0                | 208.7                | 190.3                | 198.4                | 212.8       | 81.0                 | 748.5             |
| 50°                   | 140.9      | 171.9                | 185.1                | 159.3                | 127.2                | 151.6                | 168.3       | 66.5                 | 814.9             |
| 55°                   | 115.9      | 135.6                | 132.9                | 125.3                | 102.7                | 120.0                | 121.1       | 55.0                 | 869.9             |
| 60°                   | 77.1       | 78.0                 | 77.1                 | 78.0                 | 77.1                 | 78.0                 | 77.0        | 36.8                 | 906.8             |
| 65°                   | 55.9       | 56.5                 | 55.9                 | 56.4                 | 55.9                 | 56.2                 | 56.5        | 27.9                 | 934.7             |
| 70°                   | 47.6       | 46.5                 | 47.6                 | 46.8                 | 47.6                 | 46.8                 | 47.6        | 24.3                 | 959.0             |
| 75°                   | 36.1       | 35.1                 | 36.1                 | 35.1                 | 36.1                 | 35.1                 | 36.1        | 18.8                 | 977.8             |
| 80°                   | 30.3       | 26.7                 | 28.2                 | 25.7                 | 27.9                 | 26.3                 | 27.7        | 14.7                 | 992.5             |
| 85°                   | 15.0       | 15.5                 | 14.5                 | 13.2                 | 12.4                 | 12.6                 | 12.4        | 7.5                  | 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            |

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| UGR-Tabelle     |     | Standardraum                        |      |      |      |      |                                       |      |      |      |      |
|-----------------|-----|-------------------------------------|------|------|------|------|---------------------------------------|------|------|------|------|
|                 |     | Blickrichtung quer zur Leuchte (C0) |      |      |      |      | Blickrichtung längs zur Leuchte (C90) |      |      |      |      |
| Raumabmessungen |     |                                     |      |      |      |      |                                       |      |      |      |      |
| x               | y   |                                     |      |      |      |      |                                       |      |      |      |      |
| 2H              | 2H  | 17,1                                | 18,6 | 17,4 | 18,9 | 19,2 | 16,6                                  | 18,2 | 17,0 | 18,5 | 18,8 |
|                 | 3H  | 17,8                                | 19,2 | 18,2 | 19,5 | 19,9 | 17,5                                  | 18,8 | 17,9 | 19,2 | 19,5 |
|                 | 4H  | 18,2                                | 19,5 | 18,6 | 19,9 | 20,2 | 18,0                                  | 19,2 | 18,4 | 19,6 | 19,9 |
|                 | 6H  | 18,8                                | 19,9 | 19,2 | 20,3 | 20,7 | 18,5                                  | 19,7 | 18,9 | 20,0 | 20,4 |
|                 | 8H  | 19,1                                | 20,2 | 19,5 | 20,6 | 21,0 | 18,8                                  | 19,8 | 19,2 | 20,2 | 20,6 |
|                 | 12H | 19,3                                | 20,3 | 19,8 | 20,7 | 21,1 | 18,9                                  | 19,9 | 19,4 | 20,3 | 20,8 |
| 4H              | 2H  | 17,4                                | 18,6 | 17,7 | 19,0 | 19,3 | 17,0                                  | 18,3 | 17,4 | 18,6 | 19,0 |
|                 | 3H  | 18,3                                | 19,4 | 18,8 | 19,8 | 20,2 | 18,1                                  | 19,2 | 18,5 | 19,5 | 20,0 |
|                 | 4H  | 18,9                                | 19,9 | 19,4 | 20,3 | 20,7 | 18,7                                  | 19,7 | 19,2 | 20,1 | 20,5 |
|                 | 6H  | 19,6                                | 20,5 | 20,1 | 20,9 | 21,3 | 19,4                                  | 20,3 | 19,9 | 20,7 | 21,1 |
|                 | 8H  | 20,0                                | 20,7 | 20,5 | 21,2 | 21,7 | 19,7                                  | 20,5 | 20,2 | 20,9 | 21,4 |
|                 | 12H | 20,3                                | 21,0 | 20,8 | 21,4 | 21,9 | 20,0                                  | 20,6 | 20,5 | 21,1 | 21,6 |
| 8H              | 4H  | 19,2                                | 19,9 | 19,7 | 20,4 | 20,9 | 19,0                                  | 19,8 | 19,5 | 20,2 | 20,7 |
|                 | 6H  | 20,1                                | 20,7 | 20,6 | 21,2 | 21,7 | 19,9                                  | 20,5 | 20,4 | 21,0 | 21,5 |
|                 | 8H  | 20,6                                | 21,1 | 21,1 | 21,6 | 22,1 | 20,3                                  | 20,9 | 20,8 | 21,4 | 21,9 |
|                 | 12H | 21,0                                | 21,4 | 21,5 | 21,9 | 22,5 | 20,7                                  | 21,1 | 21,2 | 21,6 | 22,1 |
| 12H             | 4H  | 19,3                                | 19,9 | 19,7 | 20,4 | 20,9 | 19,1                                  | 19,7 | 19,6 | 20,2 | 20,7 |
|                 | 6H  | 20,2                                | 20,7 | 20,7 | 21,2 | 21,7 | 20,0                                  | 20,6 | 20,5 | 21,0 | 21,6 |
|                 | 8H  | 20,7                                | 21,2 | 21,2 | 21,7 | 22,2 | 20,5                                  | 20,9 | 21,0 | 21,4 | 22,0 |

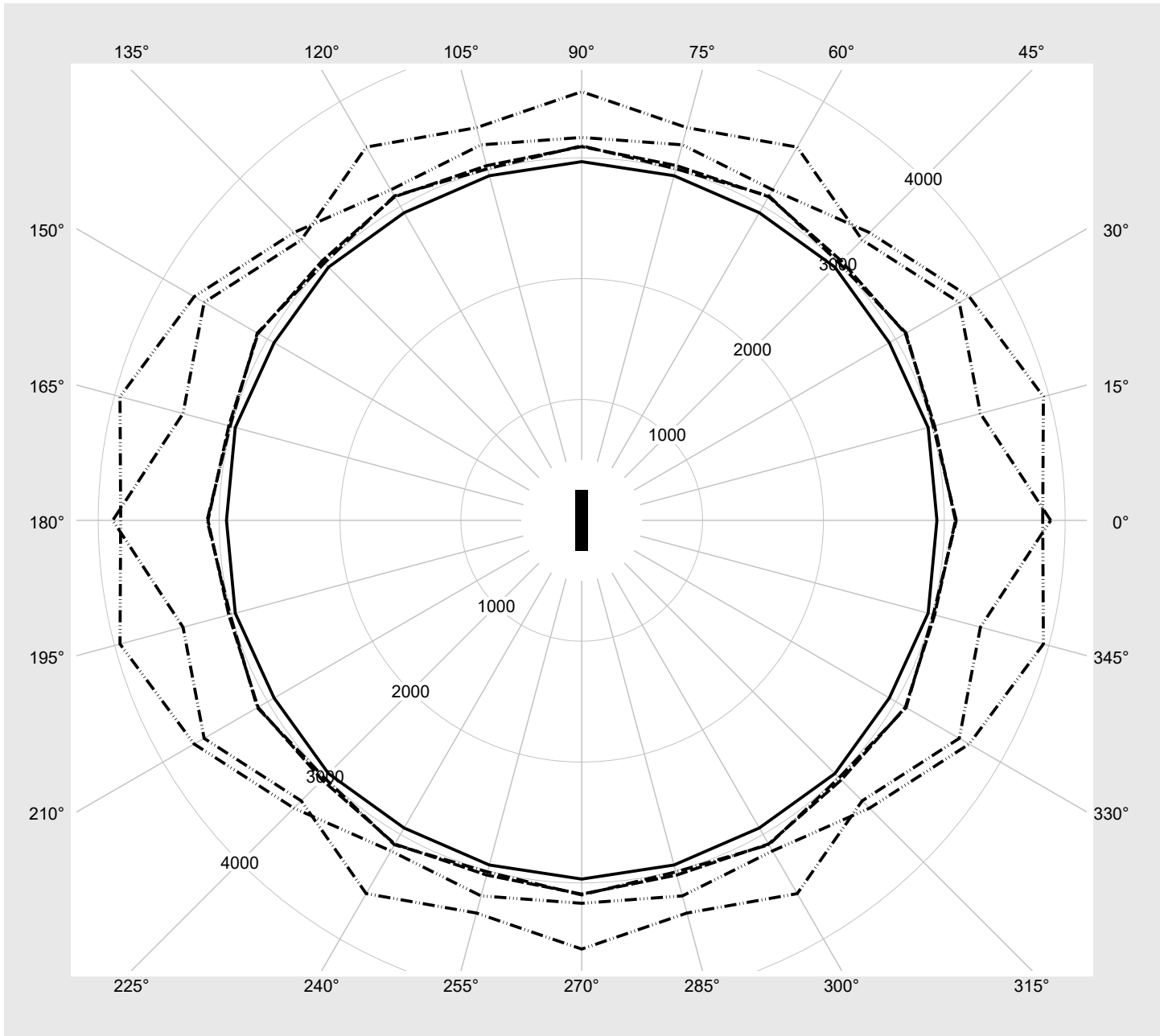
|                              |                                 |                                    |                     |
|------------------------------|---------------------------------|------------------------------------|---------------------|
| <b>Leuchtdichten-Tabelle</b> | Max. für $\gamma \geq 65^\circ$ | Lichttechnische Abmessungen in mm: | L = 1470<br>B = 245 |
|------------------------------|---------------------------------|------------------------------------|---------------------|

| C-Ebenen | $\gamma$ | Leuchtdichte in cd/m <sup>2</sup> |                             |                             |                             |                             |                             |             |  |  |
|----------|----------|-----------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|--|--|
|          |          | 0°<br>180°                        | 15°<br>165°<br>195°<br>345° | 30°<br>150°<br>210°<br>330° | 45°<br>135°<br>225°<br>315° | 60°<br>120°<br>240°<br>300° | 75°<br>105°<br>255°<br>285° | 90°<br>270° |  |  |
| 45°      |          | 6427.6                            | 6856.5                      | 7193.5                      | 6555.3                      | 5978.8                      | 6232.8                      | 6684.7      |  |  |
| 50°      |          | 4869.7                            | 5940.1                      | 6398.1                      | 5506.3                      | 4395.8                      | 5237.4                      | 5814.4      |  |  |
| 55°      |          | 4489.8                            | 5252.1                      | 5148.5                      | 4854.1                      | 3978.1                      | 4645.7                      | 4690.3      |  |  |
| 60°      |          | 3424.6                            | 3466.4                      | 3426.4                      | 3466.4                      | 3427.2                      | 3466.4                      | 3421.0      |  |  |
| 65°      |          | 2939.1                            | 2967.5                      | 2939.1                      | 2962.8                      | 2939.1                      | 2952.2                      | 2968.0      |  |  |
| 70°      |          | 3092.3                            | 3022.7                      | 3092.3                      | 3037.0                      | 3092.3                      | 3038.3                      | 3092.3      |  |  |
| 75°      |          | 3099.4                            | 3011.7                      | 3099.4                      | 3011.7                      | 3099.4                      | 3011.7                      | 3099.4      |  |  |
| 80°      |          | 3880.2                            | 3415.1                      | 3607.2                      | 3281.8                      | 3566.3                      | 3363.8                      | 3547.1      |  |  |
| 85°      |          | 3814.3                            | 3954.7                      | 3701.9                      | 3367.5                      | 3158.3                      | 3216.9                      | 3168.5      |  |  |

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**Leuchtdichten in cd/m<sup>2</sup>**       $\gamma$  65°     $\gamma$  70°     $\gamma$  75°     $\gamma$  80°     $\gamma$  85°



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|                           |                           |               |
|---------------------------|---------------------------|---------------|
| <b>Dimmstufen-Tabelle</b> | Umgebungstemperatur: 25°C | <b>sITeco</b> |
|---------------------------|---------------------------|---------------|

| Lichtstrom [%] | Dimmstufe linear | Dimmstufe logarithmisch | Lichtstrom [lm] | Systemleistung [W] |
|----------------|------------------|-------------------------|-----------------|--------------------|
| 100            | 254              | 254                     | 8000            | 59.4               |
| 95             | 243              | 252                     | 7597            | 56.2               |
| 90             | 232              | 251                     | 7190            | 53.0               |
| 85             | 222              | 249                     | 6814            | 50.3               |
| 80             | 207              | 247                     | 6393            | 49.2               |
| 75             | 188              | 243                     | 5990            | 50.5               |
| 70             | 171              | 240                     | 5583            | 48.8               |
| 65             | 160              | 237                     | 5212            | 40.9               |
| 60             | 149              | 234                     | 4809            | 35.3               |
| 55             | 139              | 232                     | 4409            | 32.8               |
| 50             | 126              | 228                     | 3998            | 29.8               |
| 45             | 110              | 223                     | 3588            | 26.6               |
| 40             | 98               | 219                     | 3199            | 23.9               |
| 35             | 89               | 216                     | 2815            | 21.6               |
| 30             | 77               | 210                     | 2390            | 18.9               |
| 25             | 62               | 202                     | 2002            | 16.2               |
| 20             | 47               | 192                     | 1599            | 13.4               |
| 15             | 33               | 179                     | 1187            | 10.6               |
| 10             | 20               | 161                     | 800             | 8.0                |
| 6              | 11               | 139                     | 440             | 4.4                |