

## Lichttechnischer Prüfbefund

Familie  
DUS® 31

Bestell-Nr.: 53BD811DV4D5D2  
EAN: 4069025124227

LP-Nummer  
59593\_25



**Ausführung** Diffusoptik, satiniert, eng strahlend  
**Bestückung** LED 4000 K | CRI ≥ 80  
**Betriebsgerät** EVG-DALI  
**Bemessungswerte** Nettolichtstrom = 13680 lm  
Systemleistung = 74.9 W  
Lichtausbeute = 182.6 lm/W

Seriendokumentation  
07.05.2024

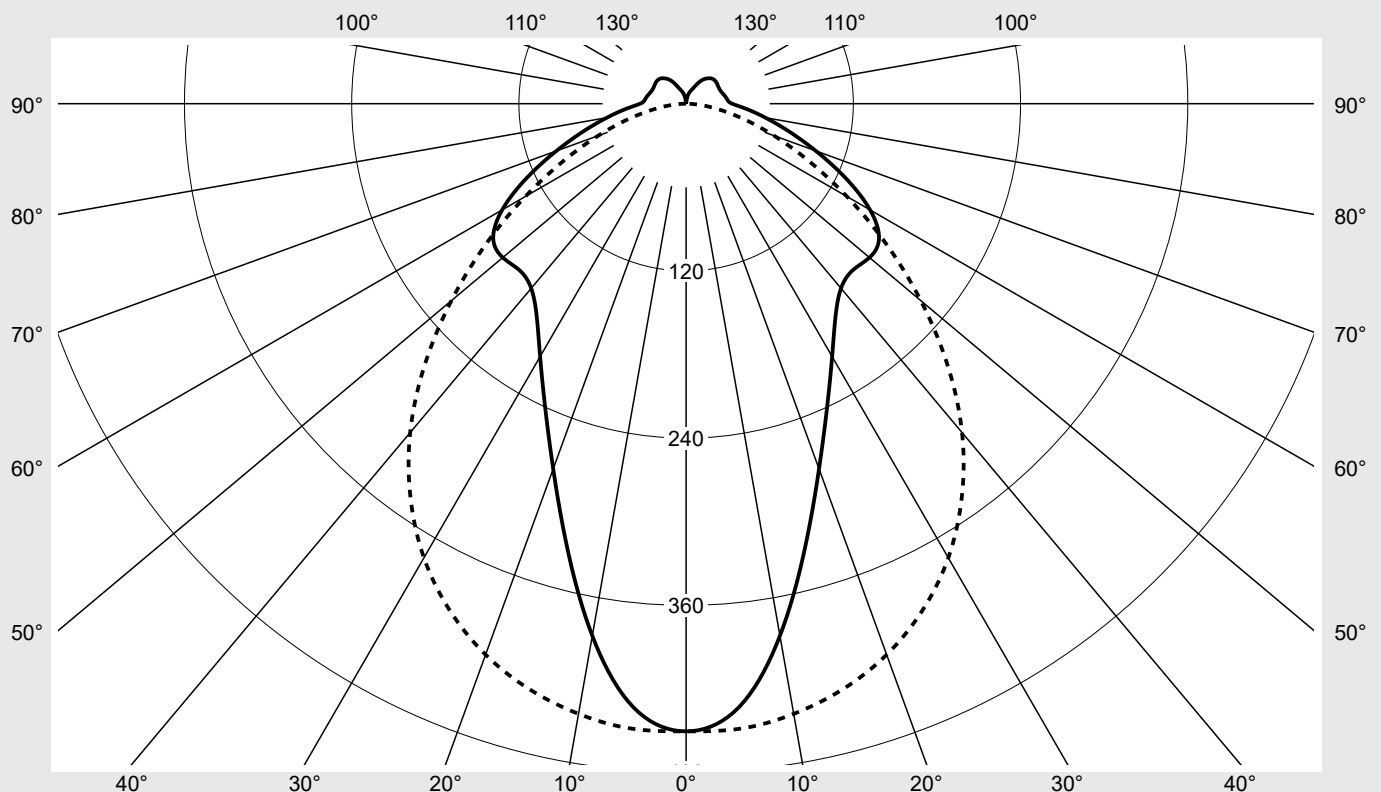
siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 450 cd/klm



## Klassifizierungen

DIN 5040 A 4 1  
CIE N1=50 N2=78 N3=94  
N4=90 N5=100

## Leuchtenbetriebswirkungsgrade

$\eta_{LB}$  100,0%  
 $\phi_u$  90,4%  
 $\phi_o$  9,6%

## Messbedingungen

DIN EN 13032 und DIN 5032

## Lichttechnischer Prüfbefund

|  |   |                                     |
|--|---|-------------------------------------|
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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° |             |                      |                   |
| γ            |            | Lichtstärke in cd/klm |                      |                      |                      |                      |             | Lichtstrom in lm/klm |                   |
| 0°           | 450.4      | 450.4                 | 450.4                | 450.4                | 450.4                | 450.4                | 450.4       | 2.7                  | 2.7               |
| 5°           | 434.8      | 434.4                 | 434.2                | 439.8                | 445.7                | 448.7                | 450.2       | 21.1                 | 23.8              |
| 10°          | 387.7      | 390.2                 | 396.4                | 411.2                | 428.2                | 439.8                | 444.6       | 39.4                 | 63.1              |
| 15°          | 329.8      | 334.4                 | 345.9                | 370.2                | 400.2                | 424.7                | 434.9       | 53.4                 | 116.5             |
| 20°          | 278.9      | 283.9                 | 296.1                | 324.2                | 364.7                | 403.3                | 420.8       | 63.2                 | 179.7             |
| 25°          | 239.6      | 243.9                 | 253.6                | 279.8                | 325.0                | 376.1                | 401.3       | 69.5                 | 249.1             |
| 30°          | 209.6      | 212.8                 | 219.1                | 240.3                | 283.9                | 343.6                | 376.3       | 72.7                 | 321.9             |
| 35°          | 186.9      | 188.8                 | 191.5                | 205.8                | 243.8                | 306.6                | 344.9       | 73.5                 | 395.4             |
| 40°          | 173.0      | 173.1                 | 171.1                | 177.5                | 207.0                | 267.1                | 308.1       | 72.6                 | 468.0             |
| 45°          | 169.1      | 166.9                 | 158.6                | 155.4                | 174.1                | 225.8                | 265.4       | 70.9                 | 538.9             |
| 50°          | 171.8      | 167.4                 | 153.3                | 140.0                | 146.6                | 186.3                | 219.9       | 69.2                 | 608.2             |
| 55°          | 169.0      | 164.3                 | 148.2                | 128.3                | 123.8                | 150.1                | 175.1       | 66.4                 | 674.5             |
| 60°          | 152.5      | 148.9                 | 135.5                | 115.0                | 103.6                | 117.6                | 133.2       | 60.4                 | 734.9             |
| 65°          | 126.3      | 124.1                 | 114.5                | 97.6                 | 84.4                 | 89.2                 | 96.9        | 51.5                 | 786.4             |
| 70°          | 99.0       | 97.7                  | 90.6                 | 78.2                 | 65.9                 | 64.8                 | 67.1        | 41.2                 | 827.6             |
| 75°          | 76.1       | 75.0                  | 69.7                 | 60.3                 | 49.1                 | 44.1                 | 43.1        | 31.6                 | 859.2             |
| 80°          | 57.7       | 56.8                  | 53.2                 | 44.9                 | 34.6                 | 27.3                 | 24.1        | 23.2                 | 882.4             |
| 85°          | 43.5       | 42.6                  | 39.5                 | 32.5                 | 22.9                 | 14.7                 | 10.1        | 16.3                 | 898.6             |
| 90°          | 33.0       | 32.1                  | 28.8                 | 22.5                 | 14.4                 | 6.3                  | 0.8         | 11.1                 | 909.7             |
| 95°          | 29.9       | 28.9                  | 25.8                 | 20.4                 | 13.4                 | 6.1                  | 0.9         | 10.0                 | 919.7             |
| 100°         | 28.7       | 27.7                  | 24.5                 | 19.6                 | 13.4                 | 6.3                  | 0.9         | 9.6                  | 929.3             |
| 105°         | 27.4       | 26.4                  | 23.6                 | 19.5                 | 13.7                 | 6.7                  | 0.8         | 9.2                  | 938.4             |
| 110°         | 26.5       | 25.4                  | 23.3                 | 19.7                 | 14.2                 | 7.2                  | 0.7         | 8.9                  | 947.3             |
| 115°         | 26.1       | 25.1                  | 23.5                 | 20.2                 | 14.6                 | 6.8                  | 0.8         | 8.6                  | 955.9             |
| 120°         | 26.2       | 25.3                  | 23.9                 | 20.5                 | 14.8                 | 6.4                  | 0.8         | 8.3                  | 964.2             |
| 125°         | 26.5       | 25.6                  | 24.0                 | 20.4                 | 14.4                 | 6.3                  | 0.8         | 7.8                  | 972.0             |
| 130°         | 26.5       | 25.4                  | 23.5                 | 19.6                 | 12.9                 | 6.2                  | 0.9         | 7.1                  | 979.0             |
| 135°         | 25.6       | 24.4                  | 22.2                 | 18.2                 | 10.9                 | 5.6                  | 1.1         | 6.1                  | 985.2             |
| 140°         | 23.7       | 22.4                  | 20.1                 | 15.4                 | 9.4                  | 4.6                  | 1.1         | 4.9                  | 990.1             |
| 145°         | 21.0       | 19.8                  | 17.0                 | 12.1                 | 7.6                  | 3.5                  | 1.3         | 3.7                  | 993.8             |
| 150°         | 16.9       | 15.5                  | 12.9                 | 9.4                  | 6.3                  | 2.5                  | 1.3         | 2.5                  | 996.4             |
| 155°         | 12.6       | 11.7                  | 10.1                 | 7.4                  | 5.2                  | 1.9                  | 1.4         | 1.7                  | 998.0             |
| 160°         | 9.9        | 9.3                   | 7.5                  | 5.7                  | 3.8                  | 1.6                  | 1.4         | 1.0                  | 999.1             |
| 165°         | 7.7        | 7.3                   | 5.1                  | 4.1                  | 2.4                  | 1.5                  | 1.4         | 0.6                  | 999.7             |
| 170°         | 4.8        | 3.7                   | 2.7                  | 2.3                  | 1.6                  | 1.5                  | 1.5         | 0.2                  | 999.9             |
| 175°         | 1.6        | 1.5                   | 1.5                  | 1.5                  | 1.5                  | 1.5                  | 1.5         | 0.1                  | 1000.0            |
| 180°         | 1.5        | 1.5                   | 1.5                  | 1.5                  | 1.5                  | 1.5                  | 1.5         | 0.0                  | 1000.0            |

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|                           |   |                              |
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|---------------------------|---|------------------------------|

| UGR-Tabelle     |     | Standardraum                        |      |      |      |      |                                       |      |      |      |      |
|-----------------|-----|-------------------------------------|------|------|------|------|---------------------------------------|------|------|------|------|
| Raumabmessungen |     | Blickrichtung quer zur Leuchte (C0) |      |      |      |      | Blickrichtung längs zur Leuchte (C90) |      |      |      |      |
| x               | y   |                                     |      |      |      |      |                                       |      |      |      |      |
| 2H              | 2H  | 23,1                                | 24,8 | 23,4 | 25,1 | 25,4 | 23,6                                  | 25,3 | 23,9 | 25,6 | 25,9 |
|                 | 3H  | 24,8                                | 26,4 | 25,2 | 26,7 | 27,0 | 24,8                                  | 26,3 | 25,2 | 26,7 | 27,0 |
|                 | 4H  | 25,5                                | 26,9 | 25,9 | 27,3 | 27,7 | 25,3                                  | 26,7 | 25,7 | 27,0 | 27,4 |
|                 | 6H  | 26,1                                | 27,4 | 26,5 | 27,8 | 28,2 | 25,6                                  | 26,9 | 26,0 | 27,3 | 27,7 |
|                 | 8H  | 26,4                                | 27,6 | 26,8 | 28,0 | 28,4 | 25,7                                  | 26,9 | 26,2 | 27,3 | 27,7 |
|                 | 12H | 26,6                                | 27,8 | 27,1 | 28,2 | 28,6 | 25,8                                  | 26,9 | 26,2 | 27,3 | 27,7 |
| 4H              | 2H  | 23,7                                | 25,1 | 24,1 | 25,5 | 25,8 | 24,1                                  | 25,5 | 24,5 | 25,8 | 26,2 |
|                 | 3H  | 25,6                                | 26,9 | 26,1 | 27,2 | 27,7 | 25,4                                  | 26,7 | 25,9 | 27,0 | 27,4 |
|                 | 4H  | 26,5                                | 27,6 | 26,9 | 28,0 | 28,4 | 26,0                                  | 27,1 | 26,4 | 27,5 | 27,9 |
|                 | 6H  | 27,2                                | 28,2 | 27,7 | 28,6 | 29,1 | 26,4                                  | 27,4 | 26,9 | 27,8 | 28,3 |
|                 | 8H  | 27,5                                | 28,4 | 28,0 | 28,9 | 29,3 | 26,6                                  | 27,5 | 27,0 | 27,9 | 28,4 |
|                 | 12H | 27,9                                | 28,7 | 28,4 | 29,1 | 29,6 | 26,7                                  | 27,5 | 27,2 | 27,9 | 28,4 |
| 8H              | 4H  | 26,7                                | 27,6 | 27,2 | 28,1 | 28,5 | 26,3                                  | 27,2 | 26,8 | 27,6 | 28,1 |
|                 | 6H  | 27,7                                | 28,4 | 28,1 | 28,9 | 29,4 | 26,9                                  | 27,6 | 27,3 | 28,1 | 28,6 |
|                 | 8H  | 28,1                                | 28,8 | 28,6 | 29,2 | 29,8 | 27,1                                  | 27,7 | 27,6 | 28,2 | 28,7 |
|                 | 12H | 28,5                                | 29,1 | 29,1 | 29,6 | 30,1 | 27,2                                  | 27,8 | 27,8 | 28,3 | 28,8 |
| 12H             | 4H  | 26,8                                | 27,6 | 27,3 | 28,0 | 28,5 | 26,4                                  | 27,2 | 26,9 | 27,6 | 28,1 |
|                 | 6H  | 27,7                                | 28,4 | 28,2 | 28,9 | 29,4 | 27,0                                  | 27,6 | 27,5 | 28,1 | 28,6 |
|                 | 8H  | 28,2                                | 28,8 | 28,7 | 29,3 | 29,8 | 27,2                                  | 27,8 | 27,8 | 28,3 | 28,8 |

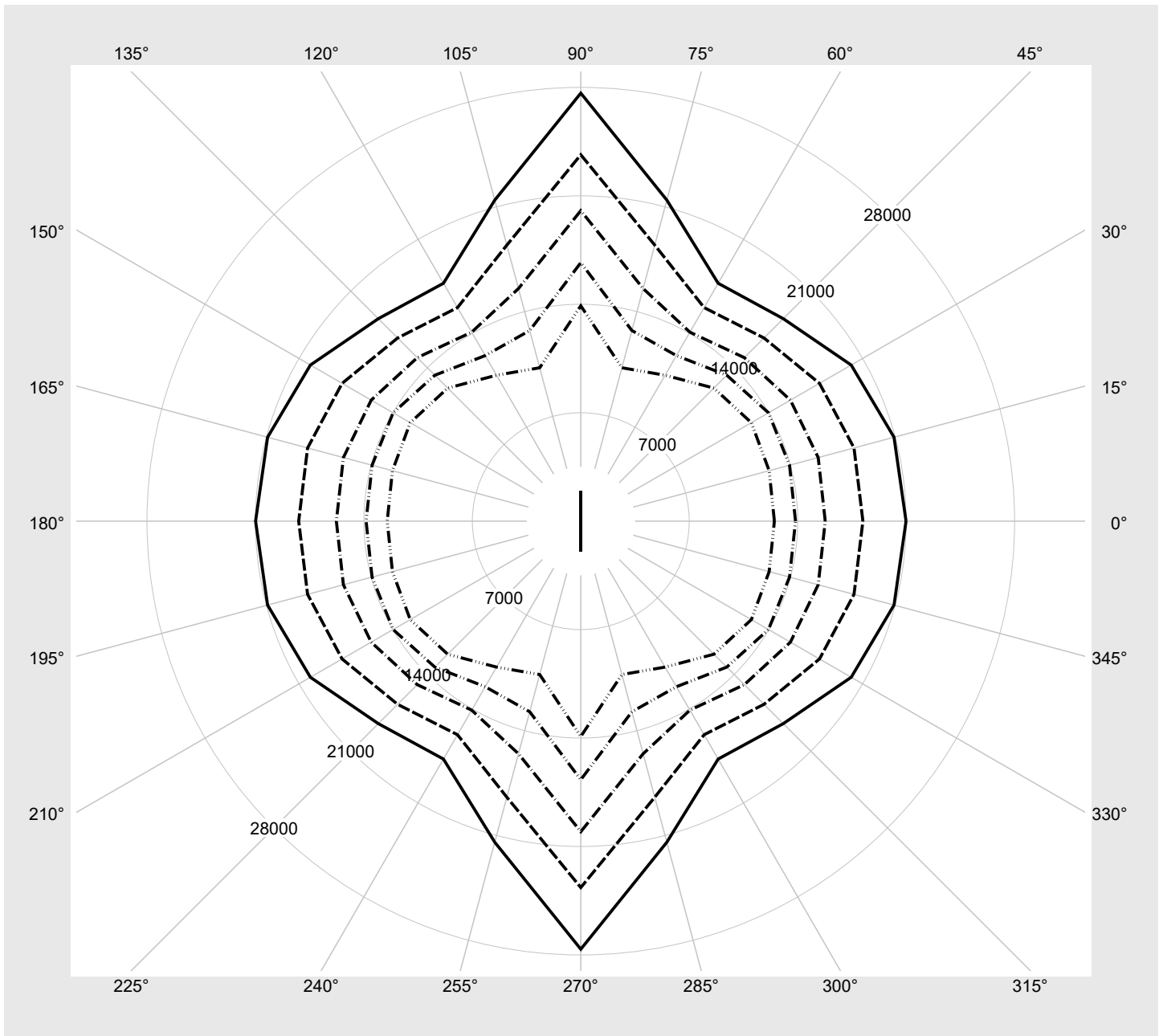
|  |   |            |              |            |             |
|--|---|------------|--------------|------------|-------------|
| <b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$ | <b>Lichttechnische Abmessungen in mm:</b> L = 1514 B = 75 | H(C0) = 25 | H(C180) = 25 | H(C90) = 0 | H(C270) = 0 |
|--|---|------------|--------------|------------|-------------|

| 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°      |          | 21604.8                           | 21503.9                     | 20968.7                     | 21431.5                     | 25421.1                     | 35420.5                     | 45212.7     |
| 50°      |          | 23039.7                           | 22679.0                     | 21374.1                     | 20486.7                     | 22919.5                     | 31668.3                     | 41213.4     |
| 55°      |          | 24046.5                           | 23641.8                     | 22048.0                     | 20154.2                     | 21010.0                     | 28068.1                     | 36772.4     |
| 60°      |          | 23288.1                           | 23039.9                     | 21761.6                     | 19679.6                     | 19371.4                     | 24642.7                     | 32103.1     |
| 65°      |          | 20992.9                           | 20930.5                     | 20154.1                     | 18482.5                     | 17731.4                     | 21456.2                     | 27628.9     |
| 70°      |          | 18209.5                           | 18257.2                     | 17790.6                     | 16721.2                     | 15919.0                     | 18447.1                     | 23649.9     |
| 75°      |          | 15777.7                           | 15863.9                     | 15622.7                     | 14927.1                     | 14086.3                     | 15544.6                     | 20044.6     |
| 80°      |          | 13859.4                           | 13948.2                     | 13989.4                     | 13322.8                     | 12341.3                     | 12738.9                     | 16688.5     |
| 85°      |          | 12495.3                           | 12586.7                     | 12712.7                     | 12148.5                     | 10877.1                     | 10250.5                     | 13900.4     |

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|                                  |   |                                     |
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Leuchtdichten in cd/m<sup>2</sup>      γ 65°    γ 70°    γ 75°    γ 80°    γ 85°      **siteco**



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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                     | 13680           | 74.9               |
| 95             | 240              | 252                     | 12972           | 70.7               |
| 90             | 227              | 250                     | 12308           | 67.0               |
| 85             | 214              | 248                     | 11640           | 63.2               |
| 80             | 201              | 245                     | 10966           | 59.3               |
| 75             | 187              | 243                     | 10234           | 55.4               |
| 70             | 174              | 240                     | 9551            | 51.6               |
| 65             | 162              | 238                     | 8913            | 48.2               |
| 60             | 149              | 234                     | 8220            | 44.5               |
| 55             | 136              | 231                     | 7522            | 40.8               |
| 50             | 123              | 227                     | 6821            | 37.1               |
| 45             | 111              | 224                     | 6168            | 33.6               |
| 40             | 98               | 219                     | 5457            | 30.0               |
| 35             | 86               | 214                     | 4797            | 26.6               |
| 30             | 73               | 208                     | 4078            | 23.0               |
| 25             | 61               | 202                     | 3411            | 19.8               |
| 20             | 49               | 194                     | 2740            | 16.4               |
| 15             | 37               | 183                     | 2066            | 13.0               |
| 10             | 25               | 169                     | 1389            | 9.7                |
| 5              | 13               | 145                     | 708             | 6.4                |
| 2              | 5                | 110                     | 253             | 4.2                |