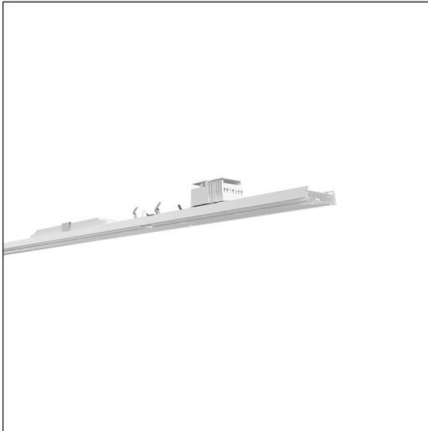


## Lichttechnischer Prüfbefund

**Familie**  
**Licross® 11 Recessed**

**Bestell-Nr.: 51TL19DV4E5F**  
**EAN: 4058352449134**

**LP-Nummer**  
**58532\_31**



**Ausführung** Abdeckung satiniert, doppelt asymmetrisch strahlend

**Bestückung** LED 4000 K | CRI ≥ 80

**Betriebsgerät** EVG-DALI

**Bemessungswerte** Nettolichtstrom = 14780 lm  
Systemleistung = 89.6 W  
Lichtausbeute = 165 lm/W

**Seriendokumentation**  
**28.09.2020**

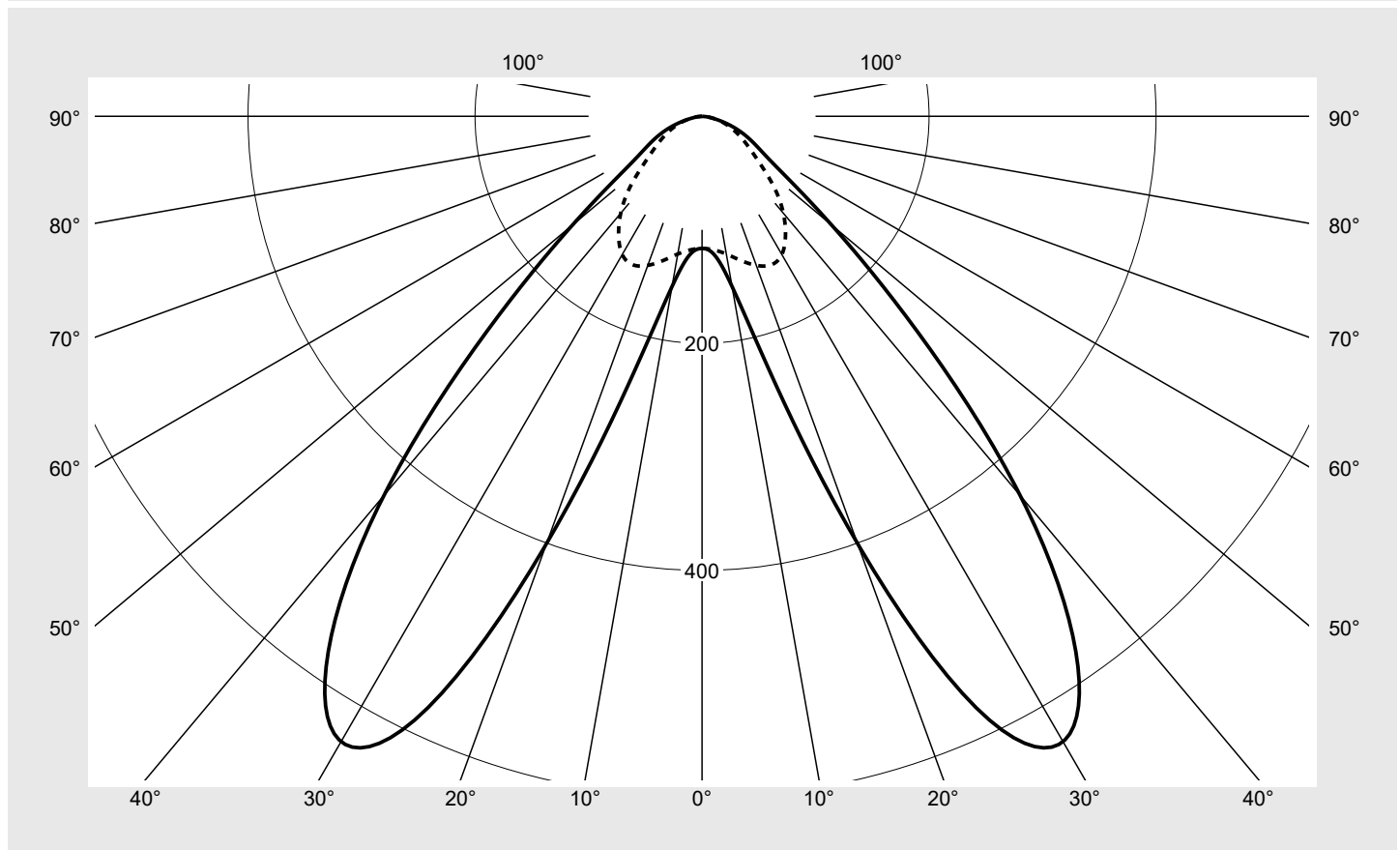
**siteco**

**Lichtstärke in cd/klm**

**C180-0**

**C270-90**

**Imax: 703 cd/klm**



**Klassifizierungen**

DIN 5040 A 4 0  
CIE N1=55 N2=89 N3=98  
N4=100 N5=100

**Leuchtenbetriebswirkungsgrade**

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

**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°           | 116.4      | 116.4                | 116.4                | 116.4                | 116.4                | 116.4                | 116.4       | 0.7                   | 0.7               |
| 5°           | 122.3      | 121.8                | 120.5                | 120.1                | 119.3                | 118.4                | 118.1       | 5.7                   | 6.4               |
| 10°          | 152.3      | 149.6                | 141.1                | 133.1                | 127.4                | 124.1                | 123.2       | 12.9                  | 19.3              |
| 15°          | 235.7      | 226.2                | 196.7                | 164.2                | 142.2                | 133.3                | 131.4       | 24.7                  | 44.1              |
| 20°          | 400.4      | 377.8                | 306.4                | 227.1                | 167.8                | 143.8                | 139.7       | 46.6                  | 90.7              |
| 25°          | 577.7      | 557.7                | 476.8                | 343.4                | 212.9                | 153.0                | 144.3       | 81.3                  | 172.0             |
| 30°          | 636.1      | 636.8                | 610.4                | 517.3                | 280.0                | 157.9                | 140.6       | 118.3                 | 290.3             |
| 35°          | 573.7      | 597.7                | 662.3                | 665.7                | 347.9                | 155.6                | 128.2       | 145.7                 | 436.0             |
| 40°          | 436.2      | 470.5                | 613.4                | 703.5                | 376.1                | 144.6                | 111.4       | 151.6                 | 587.6             |
| 45°          | 268.7      | 299.8                | 459.0                | 605.2                | 334.0                | 122.5                | 91.2        | 129.2                 | 716.8             |
| 50°          | 149.1      | 168.3                | 276.5                | 419.8                | 259.3                | 97.4                 | 69.0        | 93.1                  | 809.9             |
| 55°          | 85.3       | 95.5                 | 151.2                | 245.9                | 199.7                | 79.3                 | 53.1        | 62.9                  | 872.9             |
| 60°          | 59.3       | 63.7                 | 88.0                 | 138.5                | 152.7                | 65.0                 | 42.1        | 44.2                  | 917.1             |
| 65°          | 44.9       | 47.0                 | 60.8                 | 84.9                 | 110.7                | 51.4                 | 33.0        | 32.6                  | 949.7             |
| 70°          | 31.7       | 33.1                 | 42.5                 | 56.3                 | 76.3                 | 38.4                 | 24.7        | 23.6                  | 973.3             |
| 75°          | 19.0       | 20.1                 | 26.0                 | 34.9                 | 49.6                 | 26.3                 | 17.0        | 15.4                  | 988.7             |
| 80°          | 8.8        | 9.4                  | 12.7                 | 18.2                 | 27.0                 | 15.2                 | 9.8         | 8.3                   | 997.0             |
| 85°          | 3.4        | 3.6                  | 4.7                  | 6.8                  | 9.5                  | 5.9                  | 3.7         | 3.1                   | 1000.0            |
| 90°          | 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            |

## Lichttechnischer Prüfbefund

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

| UGR-Tabelle          |           | Standardraum                        |      |      |      |      |                                       |      |      |      |      |
|----------------------|-----------|-------------------------------------|------|------|------|------|---------------------------------------|------|------|------|------|
|                      |           | Blickrichtung quer zur Leuchte (C0) |      |      |      |      | Blickrichtung längs zur Leuchte (C90) |      |      |      |      |
| Raumabmessungen      |           |                                     |      |      |      |      |                                       |      |      |      |      |
| x                    | y         |                                     |      |      |      |      |                                       |      |      |      |      |
| Reflexionsgrad Decke | 0,7       | 0,7                                 | 0,5  | 0,5  | 0,3  | 0,7  | 0,7                                   | 0,5  | 0,5  | 0,3  |      |
| Reflexionsgrad Wände | 0,5       | 0,3                                 | 0,5  | 0,3  | 0,3  | 0,5  | 0,3                                   | 0,5  | 0,3  | 0,3  |      |
| Reflexionsgrad Boden | 0,2       | 0,2                                 | 0,2  | 0,2  | 0,2  | 0,2  | 0,2                                   | 0,2  | 0,2  | 0,2  |      |
| <b>2H</b>            | <b>2H</b> | 25,1                                | 26,7 | 25,5 | 27,0 | 27,4 | 23,9                                  | 25,6 | 24,3 | 25,9 | 26,2 |
|                      | 3H        | 25,3                                | 26,7 | 25,6 | 27,0 | 27,4 | 24,2                                  | 25,7 | 24,6 | 26,0 | 26,3 |
|                      | 4H        | 25,3                                | 26,7 | 25,7 | 27,0 | 27,4 | 24,3                                  | 25,7 | 24,7 | 26,0 | 26,4 |
|                      | 6H        | 25,3                                | 26,6 | 25,7 | 26,9 | 27,3 | 24,3                                  | 25,6 | 24,7 | 26,0 | 26,4 |
|                      | 8H        | 25,4                                | 26,5 | 25,8 | 26,9 | 27,3 | 24,3                                  | 25,5 | 24,7 | 25,9 | 26,3 |
|                      | 12H       | 25,3                                | 26,4 | 25,8 | 26,8 | 27,2 | 24,3                                  | 25,5 | 24,7 | 25,9 | 26,3 |
| <b>4H</b>            | <b>2H</b> | 25,5                                | 26,9 | 25,9 | 27,2 | 27,6 | 24,6                                  | 26,0 | 25,0 | 26,3 | 26,7 |
|                      | 3H        | 25,8                                | 26,9 | 26,2 | 27,3 | 27,7 | 25,4                                  | 26,5 | 25,8 | 26,9 | 27,3 |
|                      | 4H        | 25,9                                | 26,9 | 26,3 | 27,3 | 27,7 | 25,6                                  | 26,6 | 26,1 | 27,0 | 27,5 |
|                      | 6H        | 25,9                                | 26,8 | 26,4 | 27,2 | 27,7 | 25,7                                  | 26,6 | 26,2 | 27,1 | 27,5 |
|                      | 8H        | 25,9                                | 26,7 | 26,4 | 27,1 | 27,6 | 25,7                                  | 26,6 | 26,2 | 27,0 | 27,5 |
|                      | 12H       | 25,9                                | 26,6 | 26,4 | 27,1 | 27,6 | 25,7                                  | 26,5 | 26,2 | 27,0 | 27,4 |
| <b>8H</b>            | <b>4H</b> | 26,0                                | 26,8 | 26,5 | 27,3 | 27,8 | 25,8                                  | 26,6 | 26,3 | 27,1 | 27,5 |
|                      | 6H        | 26,1                                | 26,8 | 26,6 | 27,2 | 27,7 | 26,1                                  | 26,8 | 26,6 | 27,2 | 27,7 |
|                      | 8H        | 26,1                                | 26,7 | 26,6 | 27,2 | 27,7 | 26,2                                  | 26,8 | 26,7 | 27,3 | 27,8 |
|                      | 12H       | 26,1                                | 26,6 | 26,6 | 27,1 | 27,6 | 26,2                                  | 26,7 | 26,7 | 27,2 | 27,8 |
| <b>12H</b>           | <b>4H</b> | 26,0                                | 26,8 | 26,5 | 27,2 | 27,7 | 25,8                                  | 26,5 | 26,3 | 27,0 | 27,5 |
|                      | 6H        | 26,1                                | 26,7 | 26,6 | 27,2 | 27,7 | 26,1                                  | 26,7 | 26,6 | 27,2 | 27,7 |
|                      | 8H        | 26,1                                | 26,7 | 26,7 | 27,2 | 27,7 | 26,3                                  | 26,7 | 26,8 | 27,2 | 27,8 |

## Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$

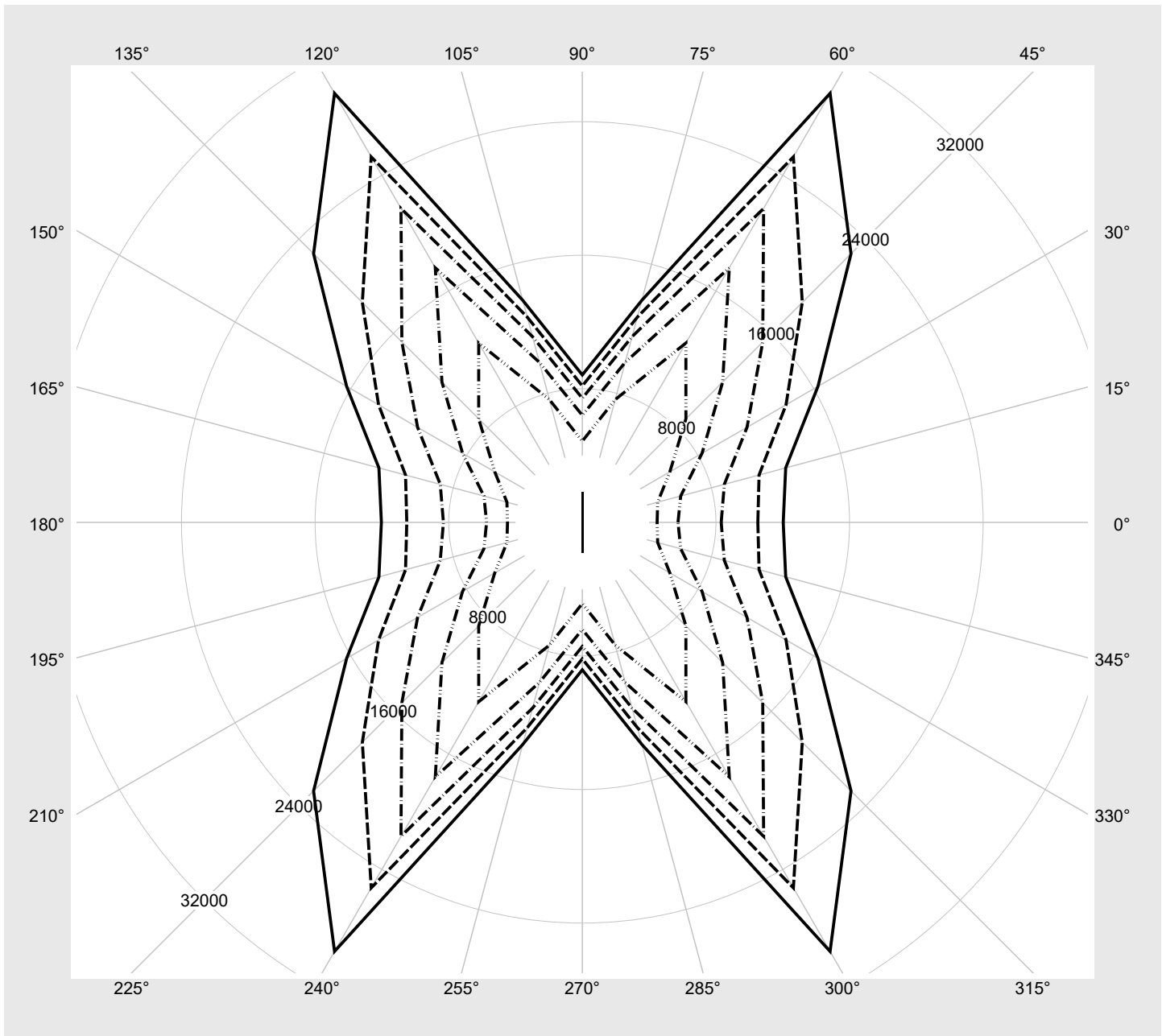
Lichttechnische Abmessungen in mm: **L = 2250**  
**B = 58**

| C-<br>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°          |          | 43031.8                           | 48012.1                     | 73519.9                     | 96929.1                     | 53491.4                     | 19622.6                     | 14605.2     |
| 50°          |          | 26264.7                           | 29660.5                     | 48722.8                     | 73961.5                     | 45691.2                     | 17164.3                     | 12153.5     |
| 55°          |          | 16850.8                           | 18856.0                     | 29859.3                     | 48560.0                     | 39431.0                     | 15649.5                     | 10477.7     |
| 60°          |          | 13430.9                           | 14439.8                     | 19935.2                     | 31364.6                     | 34582.9                     | 14734.0                     | 9537.3      |
| 65°          |          | 12031.1                           | 12608.3                     | 16294.2                     | 22755.1                     | 29671.9                     | 13767.1                     | 8832.1      |
| 70°          |          | 10510.4                           | 10957.8                     | 14085.4                     | 18627.0                     | 25277.3                     | 12724.1                     | 8173.5      |
| 75°          |          | 8316.8                            | 8804.8                      | 11388.3                     | 15279.3                     | 21714.1                     | 11516.9                     | 7435.1      |
| 80°          |          | 5731.1                            | 6098.9                      | 8279.3                      | 11885.4                     | 17604.7                     | 9925.5                      | 6414.6      |
| 85°          |          | 4479.3                            | 4672.9                      | 6053.0                      | 8774.1                      | 12406.1                     | 7612.3                      | 4865.2      |

# Lichttechnischer Prüfbefund

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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**



## Lichttechnischer Prüfbefund

|   |   |                                     |
|---|---|-------------------------------------|
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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                     | 14780           | 89.6               |
| 95             | 240              | 252                     | 14036           | 84.4               |
| 90             | 226              | 250                     | 13283           | 79.3               |
| 85             | 213              | 248                     | 12575           | 74.6               |
| 80             | 199              | 245                     | 11804           | 69.6               |
| 75             | 186              | 243                     | 11080           | 65.0               |
| 70             | 173              | 240                     | 10347           | 60.4               |
| 65             | 160              | 237                     | 9609            | 55.7               |
| 60             | 147              | 234                     | 8861            | 51.2               |
| 55             | 134              | 231                     | 8110            | 46.8               |
| 50             | 122              | 227                     | 7406            | 42.6               |
| 45             | 109              | 223                     | 6636            | 38.3               |
| 40             | 97               | 219                     | 5919            | 34.3               |
| 35             | 85               | 214                     | 5195            | 30.2               |
| 30             | 72               | 208                     | 4404            | 25.9               |
| 25             | 60               | 201                     | 3667            | 22.0               |
| 20             | 49               | 194                     | 2987            | 18.5               |
| 15             | 37               | 183                     | 2238            | 14.6               |
| 10             | 25               | 169                     | 1483            | 10.5               |
| 5              | 13               | 145                     | 722             | 6.7                |
| 2              | 6                | 117                     | 275             | 4.5                |