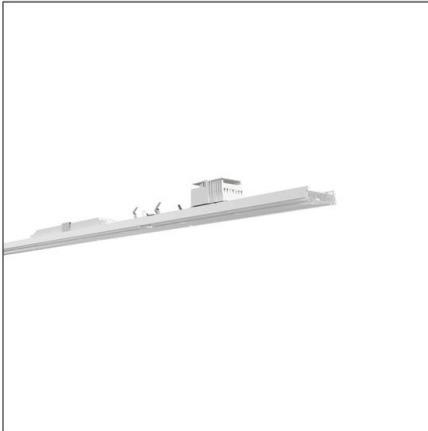


## Lichttechnischer Prüfbefund

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

**Bestell-Nr.: 51TL18VN455F**  
**EAN: 4058352466391**

**LP-Nummer**  
**58691\_49**



**Ausführung** Abdeckung satiniert, breit strahlend, hoher Sehkomfort

**Bestückung** LED 4000 K | CRI ≥ 80

**Betriebsgerät** EVG-DALI CLO

**Bemessungswerte** Nettolichtstrom = 5560 lm  
Systemleistung = 33.6 W  
Lichtausbeute = 165.5 lm/W

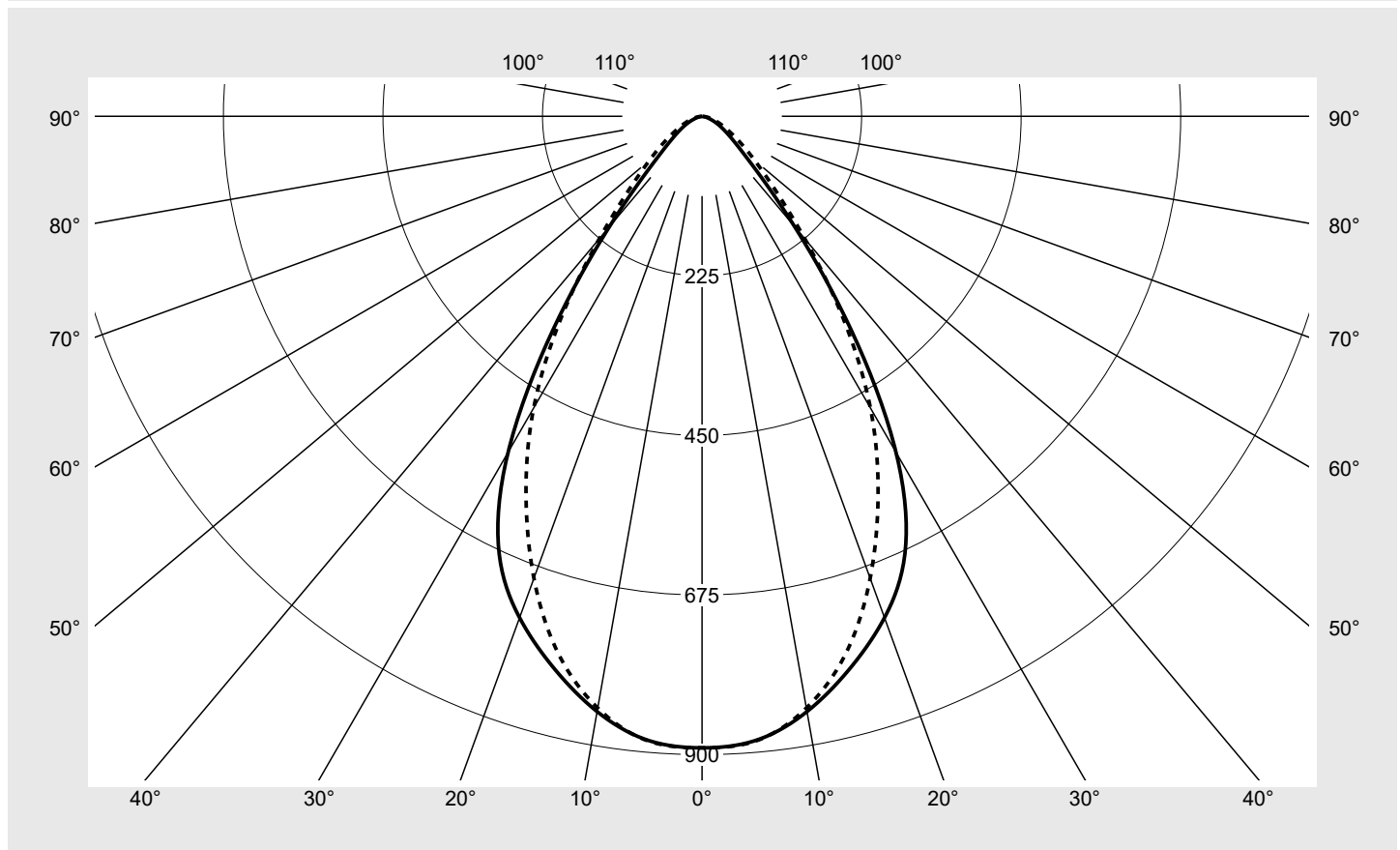
**Seriendokumentation**  
**04.12.2020**

**sITeco**

**Lichtstärke in cd/klm**

**C180-0** **C270-90**

**Imax: 890 cd/klm**



**Klassifizierungen**

DIN 5040 A 6 0  
CIE N1=83 N2=96 N3=99  
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° |             |                      |                   |
| Lichtstärke in cd/klm |            |                      |                      |                      |                      |                      |             | Lichtstrom in lm/klm |                   |
| γ                     |            |                      |                      |                      |                      |                      |             |                      |                   |
| 0°                    | 890.5      | 890.5                | 890.5                | 890.5                | 890.5                | 890.5                | 890.5       | 5.3                  | 5.3               |
| 5°                    | 883.0      | 882.3                | 875.7                | 876.1                | 880.2                | 881.2                | 883.8       | 42.0                 | 47.4              |
| 10°                   | 852.3      | 852.7                | 846.0                | 846.4                | 847.1                | 846.1                | 847.2       | 80.7                 | 128.1             |
| 15°                   | 806.0      | 807.1                | 800.6                | 798.1                | 793.1                | 786.0                | 783.9       | 113.0                | 241.1             |
| 20°                   | 752.4      | 753.8                | 745.8                | 735.1                | 719.0                | 700.4                | 693.3       | 136.8                | 377.8             |
| 25°                   | 677.7      | 678.7                | 666.2                | 642.3                | 616.2                | 594.6                | 587.5       | 147.9                | 525.7             |
| 30°                   | 547.1      | 547.0                | 530.5                | 500.0                | 481.5                | 475.9                | 474.8       | 139.1                | 664.9             |
| 35°                   | 364.4      | 363.5                | 349.1                | 327.1                | 328.9                | 340.7                | 345.9       | 108.2                | 773.0             |
| 40°                   | 203.2      | 202.2                | 193.4                | 185.6                | 201.9                | 218.9                | 225.4       | 71.4                 | 844.5             |
| 45°                   | 108.8      | 108.0                | 102.7                | 103.7                | 123.9                | 139.5                | 144.1       | 45.5                 | 890.0             |
| 50°                   | 66.7       | 66.1                 | 62.8                 | 66.6                 | 83.9                 | 94.8                 | 97.2        | 31.9                 | 921.9             |
| 55°                   | 45.6       | 45.3                 | 45.3                 | 49.0                 | 60.9                 | 67.0                 | 67.8        | 24.3                 | 946.1             |
| 60°                   | 31.9       | 31.8                 | 34.1                 | 38.0                 | 45.2                 | 47.1                 | 47.1        | 18.6                 | 964.8             |
| 65°                   | 21.6       | 21.7                 | 24.8                 | 28.3                 | 33.6                 | 33.2                 | 32.9        | 14.0                 | 978.8             |
| 70°                   | 13.4       | 13.7                 | 16.2                 | 19.9                 | 24.5                 | 23.3                 | 22.8        | 9.9                  | 988.7             |
| 75°                   | 7.5        | 7.7                  | 9.1                  | 12.7                 | 16.1                 | 15.5                 | 14.8        | 6.4                  | 995.1             |
| 80°                   | 4.0        | 4.1                  | 4.6                  | 6.4                  | 8.9                  | 8.9                  | 8.1         | 3.5                  | 998.6             |
| 85°                   | 1.9        | 1.8                  | 2.0                  | 2.6                  | 3.4                  | 3.5                  | 3.0         | 1.4                  | 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   |                                     |      |      |      |      |                                       |      |      |      |      |
| 2H              | 2H  | 16,9                                | 18,2 | 17,3 | 18,5 | 18,9 | 17,8                                  | 19,2 | 18,2 | 19,5 | 19,8 |
|                 | 3H  | 17,1                                | 18,3 | 17,5 | 18,6 | 18,9 | 18,3                                  | 19,5 | 18,7 | 19,8 | 20,2 |
|                 | 4H  | 17,1                                | 18,2 | 17,5 | 18,5 | 18,9 | 18,5                                  | 19,6 | 18,9 | 19,9 | 20,3 |
|                 | 6H  | 17,1                                | 18,1 | 17,5 | 18,5 | 18,9 | 18,6                                  | 19,6 | 19,1 | 20,0 | 20,4 |
|                 | 8H  | 17,2                                | 18,0 | 17,6 | 18,4 | 18,8 | 18,8                                  | 19,6 | 19,2 | 20,0 | 20,4 |
|                 | 12H | 17,2                                | 18,0 | 17,6 | 18,4 | 18,8 | 18,8                                  | 19,5 | 19,2 | 19,9 | 20,3 |
| 4H              | 2H  | 17,1                                | 18,1 | 17,5 | 18,5 | 18,9 | 17,9                                  | 19,0 | 18,3 | 19,3 | 19,7 |
|                 | 3H  | 17,4                                | 18,2 | 17,8 | 18,6 | 19,1 | 18,6                                  | 19,5 | 19,0 | 19,9 | 20,3 |
|                 | 4H  | 17,4                                | 18,2 | 17,9 | 18,6 | 19,1 | 18,9                                  | 19,7 | 19,3 | 20,1 | 20,5 |
|                 | 6H  | 17,4                                | 18,1 | 17,9 | 18,6 | 19,0 | 19,1                                  | 19,8 | 19,6 | 20,2 | 20,7 |
|                 | 8H  | 17,5                                | 18,1 | 17,9 | 18,5 | 19,0 | 19,2                                  | 19,8 | 19,6 | 20,2 | 20,7 |
|                 | 12H | 17,5                                | 18,0 | 18,0 | 18,4 | 18,9 | 19,2                                  | 19,7 | 19,7 | 20,2 | 20,7 |
| 8H              | 4H  | 17,5                                | 18,1 | 18,0 | 18,6 | 19,1 | 18,9                                  | 19,5 | 19,4 | 20,0 | 20,4 |
|                 | 6H  | 17,6                                | 18,1 | 18,1 | 18,5 | 19,0 | 19,2                                  | 19,7 | 19,7 | 20,2 | 20,7 |
|                 | 8H  | 17,6                                | 18,0 | 18,1 | 18,5 | 19,0 | 19,3                                  | 19,7 | 19,8 | 20,2 | 20,7 |
|                 | 12H | 17,6                                | 17,9 | 18,1 | 18,4 | 19,0 | 19,4                                  | 19,7 | 19,9 | 20,2 | 20,8 |
| 12H             | 4H  | 17,6                                | 18,1 | 18,1 | 18,5 | 19,0 | 18,9                                  | 19,4 | 19,4 | 19,9 | 20,4 |
|                 | 6H  | 17,6                                | 18,0 | 18,1 | 18,5 | 19,0 | 19,2                                  | 19,6 | 19,7 | 20,1 | 20,6 |
|                 | 8H  | 17,6                                | 18,0 | 18,1 | 18,5 | 19,0 | 19,3                                  | 19,6 | 19,8 | 20,2 | 20,7 |

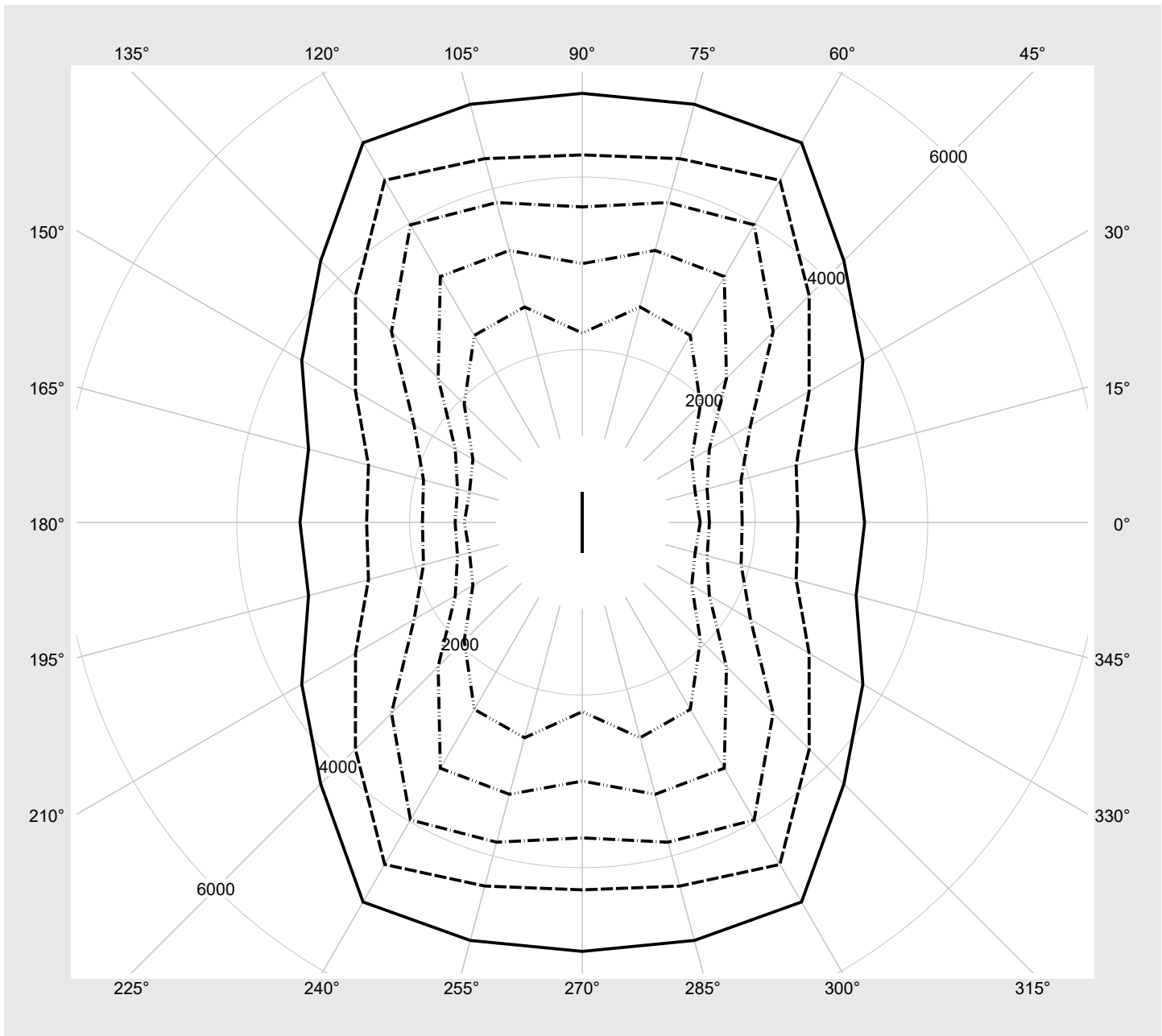
|  |  |
|--|--|
| <b>Leuchtdichten-Tabelle</b> Max. für $\gamma \geq 65^\circ$ | <b>Lichttechnische Abmessungen in mm:</b> L = 1500<br>B = 58 |
|--|--|

| 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°      |          | 9835.5                            | 9763.8                      | 9277.9                      | 9368.2                      | 11200.4                     | 12605.1                     | 13027.3     |
| 50°      |          | 6636.1                            | 6571.9                      | 6240.0                      | 6624.2                      | 8345.0                      | 9425.1                      | 9668.8      |
| 55°      |          | 5079.3                            | 5048.2                      | 5051.0                      | 5455.7                      | 6780.6                      | 7463.0                      | 7553.4      |
| 60°      |          | 4081.2                            | 4061.0                      | 4364.8                      | 4861.2                      | 5772.7                      | 6019.4                      | 6013.7      |
| 65°      |          | 3269.1                            | 3282.4                      | 3751.1                      | 4284.6                      | 5077.8                      | 5013.8                      | 4969.8      |
| 70°      |          | 2497.9                            | 2563.8                      | 3032.7                      | 3715.6                      | 4575.9                      | 4361.7                      | 4256.9      |
| 75°      |          | 1851.4                            | 1904.3                      | 2249.7                      | 3125.3                      | 3979.9                      | 3835.7                      | 3654.9      |
| 80°      |          | 1472.5                            | 1496.4                      | 1698.8                      | 2360.6                      | 3288.4                      | 3261.1                      | 2997.3      |
| 85°      |          | 1366.1                            | 1352.9                      | 1462.9                      | 1934.3                      | 2501.2                      | 2583.3                      | 2193.2      |

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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] Lebensdauerbeginn | Systemleistung [W] Lebensdauerende | Systemleistung [W] Durchschnitt |
|----------------|------------------|-------------------------|-----------------|--------------------------------------|------------------------------------|---------------------------------|
| 100            | 254              | 254                     | 5560            | 33.7                                 | 38.4                               | 36.0                            |
| 95             | 241              | 252                     | 5289            | 32.0                                 | 36.5                               | 34.2                            |
| 90             | 227              | 250                     | 4996            | 30.2                                 | 34.4                               | 32.3                            |
| 85             | 214              | 248                     | 4725            | 28.6                                 | 32.6                               | 30.6                            |
| 80             | 201              | 245                     | 4451            | 26.9                                 | 30.7                               | 28.8                            |
| 75             | 188              | 243                     | 4167            | 25.3                                 | 28.7                               | 27.0                            |
| 70             | 175              | 240                     | 3895            | 23.8                                 | 26.9                               | 25.4                            |
| 65             | 162              | 238                     | 3615            | 22.1                                 | 25.0                               | 23.6                            |
| 60             | 149              | 234                     | 3332            | 20.5                                 | 23.2                               | 21.8                            |
| 55             | 136              | 231                     | 3050            | 18.9                                 | 21.3                               | 20.1                            |
| 50             | 124              | 228                     | 2784            | 17.3                                 | 19.6                               | 18.5                            |
| 45             | 111              | 224                     | 2497            | 15.6                                 | 17.8                               | 16.7                            |
| 40             | 99               | 219                     | 2231            | 14.3                                 | 16.0                               | 15.2                            |
| 35             | 86               | 214                     | 1939            | 12.6                                 | 14.2                               | 13.4                            |
| 30             | 74               | 209                     | 1670            | 11.1                                 | 12.4                               | 11.8                            |
| 25             | 62               | 202                     | 1398            | 9.7                                  | 10.8                               | 10.2                            |
| 20             | 49               | 194                     | 1103            | 8.2                                  | 9.1                                | 8.6                             |
| 15             | 37               | 183                     | 828             | 6.7                                  | 7.3                                | 7.0                             |
| 10             | 25               | 169                     | 552             | 5.2                                  | 5.6                                | 5.4                             |
| 5              | 13               | 145                     | 281             | 3.8                                  | 4.0                                | 3.9                             |
| 3              | 8                | 127                     | 167             | 3.1                                  | 3.3                                | 3.2                             |