

Lichttechnischer Prüfbefund

Familie
Monsun® 12

Bestell-Nr.: **51FE10DP440J**
EAN: **4058352539057**

LP-Nummer
58939_72



Ausführung Prismenwanne, opal, PMMA, breit strahlend
Bestückung LED 4000 K | CRI ≥ 80
Betriebsgerät EVG-DALI
Bemessungswerte Nettolichtstrom = 4200 lm
Systemleistung = 24.2 W
Lichtausbeute = 173.6 lm/W

Seriendokumentation
28.07.2021

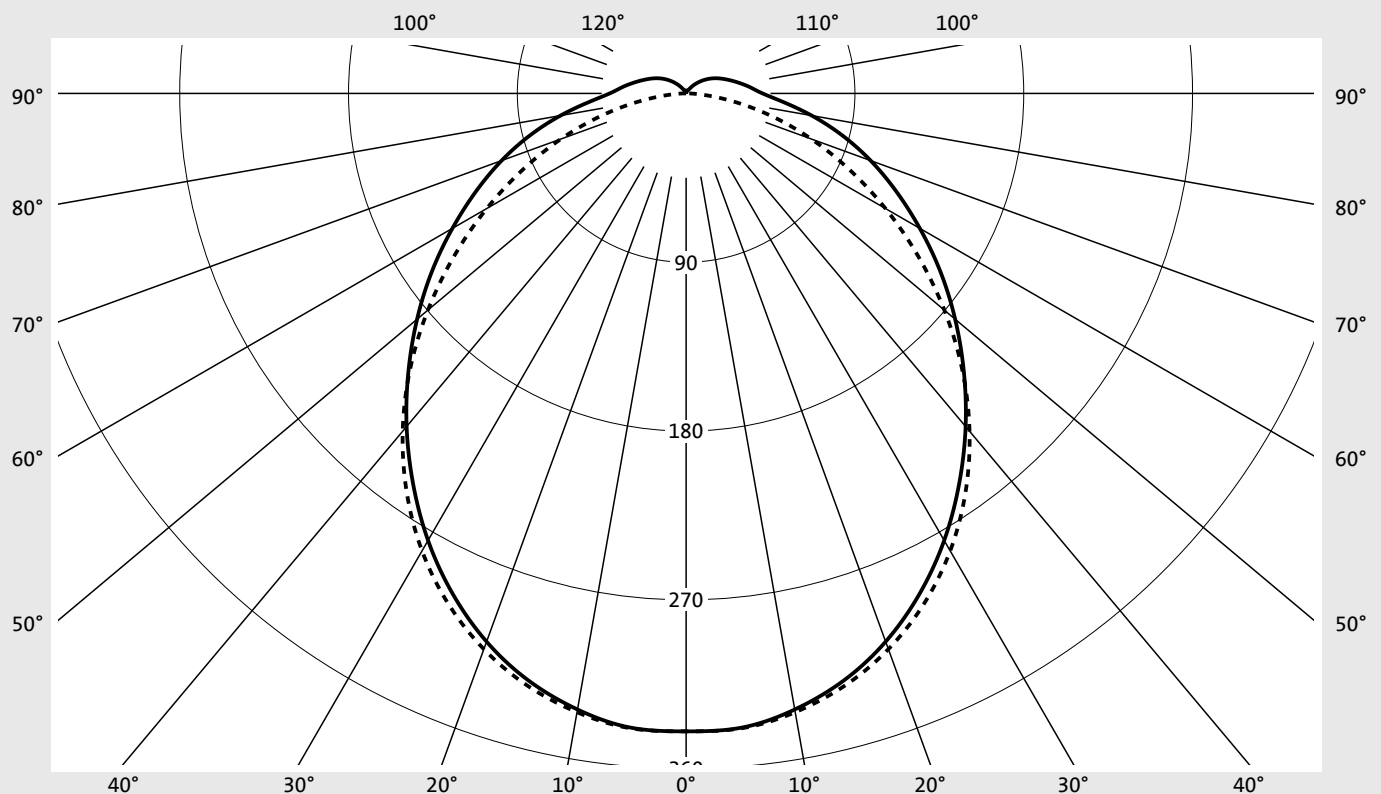
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Lichtstärke in cd/klm

C180-0

C270-90

Imax: 340 cd/klm



Klassifizierungen

DIN 5040 A 4 1
CIE N1=47 N2=77 N3=93
N4=94 N5=100

Leuchtenbetriebswirkungsgrade

η_{LB} 100,0%
 ϕ_u 94,2%
 ϕ_o 5,8%

Messbedingungen

DIN EN 13032 und DIN 5032

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| | | |
|--|---|-------------------------------------|
| Familie Monsun® 12 | Bestell-Nr.: 51FE10DP440J EAN: 4058352539057 | LP-Nummer 58939_72 |
| Wertetabelle Lichtstärkemessung | | Maximale Lichtstärke |
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| C- Ebenen | 0° 180° | 15° | 30° | 45° | 60° | 75° | 90° 270° | Phi-Zone | Summe Phi-Zone |
|--------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------|----------------------|-------------------|
| | | 165° 195° 345° | 150° 210° 330° | 135° 225° 315° | 120° 240° 300° | 105° 255° 285° | | | |
| γ | Lichtstärke in cd/klm | | | | | | | Lichtstrom in lm/klm | |
| 0° | 340.1 | 340.1 | 340.1 | 340.1 | 340.1 | 340.1 | 340.1 | 2.0 | 2.0 |
| 5° | 339.4 | 338.3 | 336.5 | 337.9 | 339.5 | 339.4 | 339.8 | 16.2 | 18.2 |
| 10° | 333.5 | 333.0 | 331.2 | 332.8 | 334.6 | 334.7 | 335.0 | 31.7 | 49.9 |
| 15° | 324.2 | 324.2 | 322.5 | 324.2 | 326.1 | 326.4 | 326.9 | 46.1 | 96.0 |
| 20° | 311.0 | 311.6 | 310.1 | 311.9 | 314.1 | 314.7 | 315.3 | 58.6 | 154.6 |
| 25° | 294.4 | 295.4 | 294.1 | 296.0 | 298.4 | 299.4 | 300.2 | 68.7 | 223.4 |
| 30° | 275.2 | 276.6 | 275.1 | 276.8 | 279.4 | 280.7 | 281.6 | 76.1 | 299.5 |
| 35° | 253.9 | 255.2 | 253.8 | 254.9 | 257.1 | 258.4 | 259.7 | 80.5 | 380.0 |
| 40° | 231.8 | 232.9 | 231.3 | 231.1 | 232.5 | 233.8 | 235.1 | 81.9 | 461.9 |
| 45° | 209.4 | 209.9 | 207.8 | 205.9 | 206.1 | 206.6 | 208.2 | 80.4 | 542.4 |
| 50° | 187.2 | 187.1 | 184.8 | 181.3 | 179.3 | 178.3 | 179.7 | 76.6 | 619.0 |
| 55° | 165.5 | 164.8 | 162.1 | 157.0 | 153.1 | 150.2 | 150.9 | 70.7 | 689.7 |
| 60° | 143.9 | 142.9 | 139.5 | 133.7 | 127.9 | 123.2 | 122.7 | 63.3 | 753.0 |
| 65° | 123.6 | 122.5 | 117.8 | 111.0 | 104.2 | 97.9 | 96.0 | 54.9 | 808.0 |
| 70° | 104.7 | 103.3 | 97.1 | 89.4 | 81.7 | 74.3 | 71.0 | 45.8 | 853.8 |
| 75° | 86.1 | 84.4 | 77.8 | 69.2 | 60.2 | 52.2 | 47.8 | 36.3 | 890.0 |
| 80° | 68.0 | 66.1 | 60.2 | 50.5 | 40.7 | 32.1 | 26.9 | 26.7 | 916.7 |
| 85° | 51.8 | 50.0 | 44.6 | 35.3 | 24.7 | 15.7 | 10.1 | 18.3 | 935.0 |
| 90° | 40.8 | 39.2 | 34.4 | 26.0 | 15.9 | 6.9 | 1.8 | 13.1 | 948.2 |
| 95° | 34.8 | 33.5 | 29.7 | 22.7 | 13.6 | 5.1 | 1.6 | 11.2 | 959.3 |
| 100° | 29.9 | 28.8 | 25.4 | 19.2 | 11.3 | 3.7 | 1.4 | 9.4 | 968.7 |
| 105° | 25.7 | 24.7 | 21.4 | 16.1 | 8.8 | 2.4 | 1.2 | 7.7 | 976.4 |
| 110° | 22.1 | 20.9 | 18.0 | 13.0 | 6.6 | 1.4 | 1.1 | 6.1 | 982.5 |
| 115° | 19.0 | 17.8 | 15.0 | 10.4 | 4.7 | 1.2 | 1.1 | 4.9 | 987.4 |
| 120° | 16.0 | 14.8 | 12.2 | 7.9 | 3.1 | 1.2 | 1.0 | 3.8 | 991.2 |
| 125° | 13.0 | 11.9 | 9.4 | 5.6 | 1.7 | 1.1 | 0.9 | 2.7 | 993.9 |
| 130° | 10.1 | 9.1 | 6.9 | 3.7 | 1.4 | 1.1 | 1.0 | 1.9 | 995.9 |
| 135° | 7.3 | 6.5 | 4.6 | 2.1 | 1.4 | 1.1 | 1.1 | 1.3 | 997.1 |
| 140° | 4.8 | 4.1 | 2.7 | 1.7 | 1.4 | 1.1 | 1.1 | 0.8 | 998.0 |
| 145° | 2.6 | 2.3 | 1.9 | 1.7 | 1.4 | 1.2 | 1.2 | 0.5 | 998.5 |
| 150° | 2.0 | 2.0 | 1.9 | 1.6 | 1.3 | 1.3 | 1.3 | 0.4 | 998.9 |
| 155° | 1.9 | 1.9 | 1.7 | 1.6 | 1.4 | 1.4 | 1.4 | 0.4 | 999.3 |
| 160° | 1.7 | 1.7 | 1.6 | 1.4 | 1.4 | 1.4 | 1.4 | 0.3 | 999.6 |
| 165° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.2 | 999.8 |
| 170° | 1.3 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.1 | 999.9 |
| 175° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.1 | 1000.0 |
| 180° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.0 | 1000.0 |

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| UGR-Tabelle | Standardraum | siteco |
|--------------------|---------------------|---------------|

| | | | | | | | | | | | |
|----------------------|-------------------------------------|------|------|------|------|---------------------------------------|------|------|------|------|------|
| 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 | |
| Raumabmessungen | Blickrichtung quer zur Leuchte (C0) | | | | | Blickrichtung längs zur Leuchte (C90) | | | | | |
| x | y | | | | | | | | | | |
| 2H | 2H | 18,8 | 20,5 | 19,2 | 20,8 | 21,1 | 18,8 | 20,5 | 19,1 | 20,8 | 21,1 |
| | 3H | 20,5 | 22,1 | 20,9 | 22,4 | 22,8 | 20,2 | 21,7 | 20,5 | 22,0 | 22,4 |
| | 4H | 21,4 | 22,8 | 21,8 | 23,2 | 23,5 | 20,7 | 22,2 | 21,1 | 22,5 | 22,9 |
| | 6H | 22,1 | 23,5 | 22,5 | 23,8 | 24,2 | 21,1 | 22,4 | 21,5 | 22,8 | 23,2 |
| | 8H | 22,5 | 23,7 | 22,9 | 24,1 | 24,5 | 21,2 | 22,5 | 21,6 | 22,8 | 23,2 |
| | 12H | 22,8 | 24,0 | 23,2 | 24,4 | 24,8 | 21,2 | 22,5 | 21,7 | 22,8 | 23,3 |
| 4H | 2H | 19,5 | 21,0 | 19,9 | 21,3 | 21,7 | 19,5 | 20,9 | 19,9 | 21,3 | 21,7 |
| | 3H | 21,4 | 22,7 | 21,9 | 23,1 | 23,5 | 21,1 | 22,3 | 21,5 | 22,7 | 23,1 |
| | 4H | 22,4 | 23,5 | 22,8 | 23,9 | 24,4 | 21,7 | 22,8 | 22,1 | 23,2 | 23,7 |
| | 6H | 23,3 | 24,3 | 23,8 | 24,7 | 25,2 | 22,2 | 23,2 | 22,6 | 23,6 | 24,1 |
| | 8H | 23,7 | 24,6 | 24,2 | 25,1 | 25,6 | 22,3 | 23,3 | 22,8 | 23,7 | 24,2 |
| | 12H | 24,2 | 25,0 | 24,6 | 25,4 | 25,9 | 22,4 | 23,3 | 22,9 | 23,7 | 24,2 |
| 8H | 4H | 22,7 | 23,6 | 23,2 | 24,1 | 24,6 | 22,1 | 23,0 | 22,6 | 23,5 | 23,9 |
| | 6H | 23,8 | 24,6 | 24,3 | 25,0 | 25,5 | 22,7 | 23,5 | 23,2 | 24,0 | 24,5 |
| | 8H | 24,3 | 25,0 | 24,8 | 25,5 | 26,0 | 23,0 | 23,6 | 23,4 | 24,1 | 24,6 |
| | 12H | 24,9 | 25,5 | 25,4 | 26,0 | 26,5 | 23,1 | 23,7 | 23,6 | 24,2 | 24,7 |
| 12H | 4H | 22,8 | 23,6 | 23,2 | 24,0 | 24,5 | 22,2 | 23,0 | 22,7 | 23,5 | 24,0 |
| | 6H | 23,9 | 24,6 | 24,4 | 25,1 | 25,6 | 22,9 | 23,6 | 23,4 | 24,0 | 24,6 |
| | 8H | 24,5 | 25,1 | 25,0 | 25,6 | 26,1 | 23,2 | 23,7 | 23,7 | 24,2 | 24,8 |

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|------------------------------|---|---|-----------------|--------------------|---------------------|
| Leuchtdichten-Tabelle | Max. für $\gamma \geq 65^\circ$ | Lichttechnische Abmessungen in mm: | L = 1590 | H(C0) = 21 | H(C180) = 21 |
| | | | B = 87 | H(C90) = 21 | H(C270) = 21 |

| C-Ebenen | γ | Leuchtdichte 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° | | 7242.0 | 7286.9 | 7340.2 | 7493.7 | 7817.1 | 8250.1 | 8822.4 | |
| 50° | | 6868.6 | 6894.0 | 6945.6 | 7051.5 | 7318.2 | 7729.3 | 8356.4 | |
| 55° | | 6513.1 | 6520.6 | 6560.6 | 6612.3 | 6818.4 | 7177.7 | 7838.5 | |
| 60° | | 6161.7 | 6156.5 | 6167.2 | 6186.8 | 6322.7 | 6619.4 | 7286.0 | |
| 65° | | 5852.8 | 5838.7 | 5789.3 | 5752.6 | 5833.4 | 6056.7 | 6707.2 | |
| 70° | | 5587.6 | 5556.0 | 5411.9 | 5309.6 | 5319.1 | 5464.0 | 6085.5 | |
| 75° | | 5311.1 | 5260.9 | 5059.1 | 4853.9 | 4733.5 | 4782.3 | 5346.4 | |
| 80° | | 5018.0 | 4934.7 | 4732.4 | 4367.6 | 4063.4 | 3928.2 | 4372.1 | |
| 85° | | 4804.1 | 4702.4 | 4482.5 | 4025.1 | 3421.5 | 2931.7 | 3053.4 | |

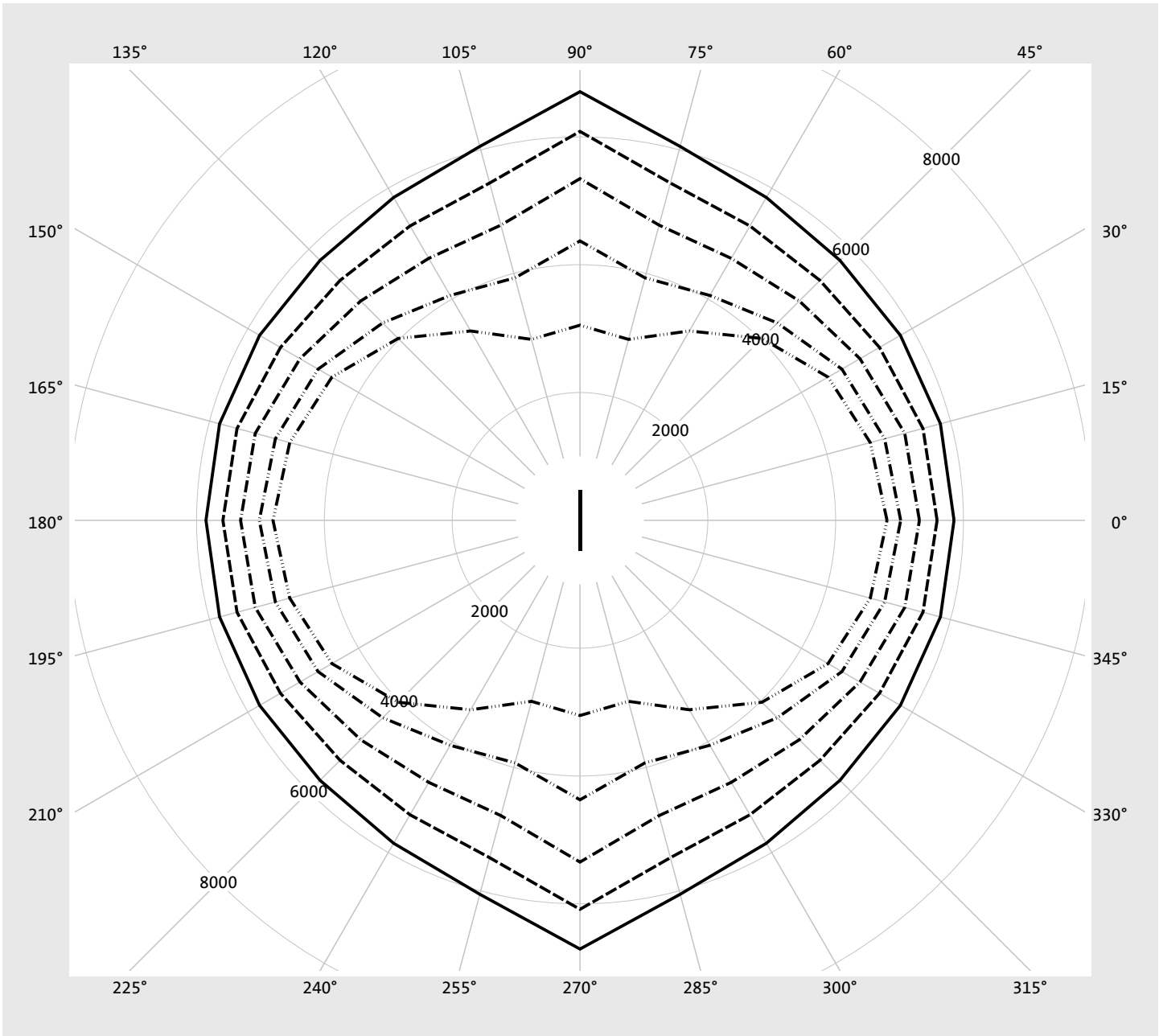
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Leuchtdichten in cd/m²

| | | | | |
|--------------|--------------|--------------|--------------|--------------|
| γ 65° | γ 70° | γ 75° | γ 80° | γ 85° |
|--------------|--------------|--------------|--------------|--------------|

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|---------------------------|---------------------------|---------------|
| Dimmstufen-Tabelle | Umgebungstemperatur: 25°C | siteco |
|---------------------------|---------------------------|---------------|

| Lichtstrom [%] | Dimmstufe linear | Dimmstufe logarithmisch | Lichtstrom [lm] | Systemleistung [W] |
|----------------|------------------|-------------------------|-----------------|--------------------|
| 100 | 254 | 254 | 4200 | 24.2 |
| 95 | 241 | 252 | 3988 | 23.1 |
| 90 | 228 | 250 | 3777 | 21.9 |
| 85 | 215 | 248 | 3564 | 20.8 |
| 80 | 203 | 247 | 3367 | 19.8 |
| 75 | 190 | 244 | 3152 | 18.6 |
| 70 | 177 | 242 | 2937 | 17.5 |
| 65 | 165 | 240 | 2737 | 16.4 |
| 60 | 152 | 237 | 2521 | 15.3 |
| 55 | 139 | 234 | 2303 | 14.1 |
| 50 | 127 | 231 | 2101 | 13.0 |
| 45 | 114 | 228 | 1885 | 11.9 |
| 40 | 102 | 224 | 1681 | 10.8 |
| 35 | 90 | 221 | 1477 | 9.8 |
| 30 | 77 | 217 | 1255 | 8.7 |
| 25 | 65 | 212 | 1050 | 7.7 |
| 20 | 53 | 207 | 844 | 6.7 |
| 15 | 41 | 200 | 637 | 5.6 |
| 10 | 28 | 193 | 412 | 4.6 |
| 5 | 16 | 184 | 204 | 3.6 |