Welle 1

| Nockenposition | Nockenposition in cm | Winkel in Grad | Winkel in mm |
|----------------|----------------------|----------------|--------------|
| 1 | 0.0 | 237.3 | 21 |
| 2 | 4.0 | 217.6 | 19 |
| 3 | 8.1 | 198.3 | 18 |
| 4 | 12.1 | 179.6 | 16 |
| 5 | 16.2 | 161.3 | 14 |
| 6 | 20.2 | 143.6 | 13 |
| 7 | 24.3 | 126.5 | 11 |
| 8 | 28.3 | 110.1 | 10 |
| 9 | 32.3 | 94.2 | 8 |
| 10 | 36.4 | 79.1 | 7 |
| 11 | 40.4 | 64.8 | 6 |
| 12 | 44.5 | 51.2 | 5 |
| 13 | 48.5 | 38.5 | 3 |
| 14 | 52.6 | 26.6 | 2 |
| 15 | 56.6 | 15.6 | 1 |
| 16 | 60.6 | 5.6 | 1 |
| 17 | 64.7 | 356.6 | 32 |
| 18 | 68.7 | 348.6 | 31 |
| 19 | 72.8 | 341.7 | 30 |
| 20 | 76.8 | 335.9 | 30 |
| 21 | 80.9 | 331.2 | 29 |
| 22 | 84.9 | 327.7 | 29 |
| 23 | 88.9 | 325.3 | 29 |
| 24 | 93.0 | 324.1 | 29 |
| 25 | 97.0 | 324.1 | 29 |
| 26 | 101.1 | 325.3 | 29 |
| 27 | 105.1 | 327.7 | 29 |
| 28 | 109.1 | 331.2 | 29 |
| 29 | 113.2 | 335.9 | 30 |
| 30 | 117.2 | 341.7 | 30 |
| 31 | 121.3 | 348.6 | 31 |
| 32 | 125.3 | 356.6 | 32 |
| 33 | 129.4 | 5.6 | 1 |
| 34 | 133.4 | 15.6 | 1 |
| 35 | 137.4 | 26.6 | 2 |
| 36 | 141.5 | 38.5 | 3 |
| 37 | 145.5 | 51.2 | 5 |
| 38 | 149.6 | 64.8 | 6 |
| 39 | 153.6 | 79.1 | 7 |
| 40 | 157.7 | 94.2 | 8 |
| 41 | 161.7 | 110.1 | 10 |
| 42 | 165.7 | 126.5 | 11 |
| 43 | 169.8 | 143.6 | 13 |
| 44 | 173.8 | 161.3 | 14 |
| 45 | 177.9 | 179.6 | 16 |
| 46 | 181.9 | 198.3 | 18 |
| 47 | 186.0 | 217.6 | 19 |
| 48 | 190.0 | 237.3 | 21 |

Welle 2

| Nockenposition | Nockenposition in cm | Winkel in Grad | Winkel in mm |
|-----------------|----------------------|----------------|---------------|
| 1 | 2.0 | 176.8 | 16 |
| 2 | 6.1 | 156.2 | 14 |
| 3 | 10.1 | 136.0 | 12 |
| 4 | 14.1 | 116.3 | 10 |
| 5 | 18.2 | 97.2 | 9 |
| 6 | 22.2 | 78.6 | 7 |
| 7 | 26.3 | 60.6 | 5 |
| 8 | 30.3 | 43.2 | 4 |
| 9 | 34.4 | 26.5 | 2 |
| 10 | 38.4 | 10.6 | 1 |
| 11 | 42.4 | 355.4 | 32 |
| 12 | 46.5 | 341.1 | 30 |
| 13 | 50.5 | 327.6 | 29 |
| 14 | 54.6 | 315.1 | 28 |
| 15 | 58.6 | 303.6 | 27 |
| 16 | 62.7 | 293.1 | 26 |
| 17 | 66.7 | 283.7 | 25 |
| 18 | 70.7 | 275.4 | 24 |
| 19 | 74.8 | 268.4 | 24 |
| 20 | 78.8 | 262.5 | 23 |
| 21 | 82.9 | 257.9 | 23 |
| 22 | 86.9 | 254.6 | 23 |
| 23 | 91.0 | 252.7 | 22 |
| 24 | 95.0 | 252.0 | 22 |
| 25 | 99.0 | 252.7 | 22 |
| 26 | 103.1 | 254.6 | 23 |
| 27 | 107.1 | 257.9 | 23 |
| 28 | 111.2 | 262.5 | 23 |
| 29 | 115.2 | 268.4 | 24 |
| 30 | 119.3 | 275.4 | 24 |
| 31 | 123.3 | 283.7 | 25 |
| $\frac{32}{32}$ | 127.3 | 293.1 | 26 |
| 33 | 131.4 | 303.6 | 27 |
| 34 | 135.4 | 315.1 | 28 |
| 35 | 139.5 | 327.6 | 29 |
| 36 | 143.5 | 341.1 | 30 |
| 37 | 147.6 | 355.4 | 32 |
| 38 | 151.6 | 10.6 | 1 |
| 39 | 155.6 | 26.5 | $\frac{2}{1}$ |
| 40 | 159.7 | 43.2 | 4 |
| 41 | 163.7 | 60.6 | 5 |
| 42 | 167.8 | 78.6 | 7 |
| 43 | 171.8 | 97.2 | 9 |
| 44 | 175.9 | 116.3 | 10 |
| 45 46 | 179.9 183.9 | 136.0 | 12 |
| 46 | | 156.2 | 14 |
| 47 | 188.0 | 176.8 | 16 |

Welle 3

| Nockenposition | Nockenposition in cm | Winkel in Grad | Winkel in mm |
|----------------------|----------------------|----------------|-----------------|
| 1 | 0.0 | 140.3 | 12 |
| $\overset{\circ}{2}$ | 4.0 | 118.3 | 11 |
| 3 | 8.1 | 96.7 | 9 |
| 4 | 12.1 | 75.6 | 7 |
| 5 | 16.2 | 54.9 | 5 |
| 6 | 20.2 | 34.7 | 3 |
| 7 | 24.3 | 15.1 | 1 |
| 8 | 28.3 | 356.1 | 32 |
| 9 | 32.3 | 337.7 | 30 |
| 10 | 36.4 | 320.0 | 28 |
| 11 | 40.4 | 303.0 | $\frac{1}{27}$ |
| 12 | 44.5 | 286.9 | 26 |
| 13 | 48.5 | 271.7 | $\frac{24}{24}$ |
| 14 | 52.6 | 257.4 | 23 |
| 15 | 56.6 | 244.1 | 22 |
| 16 | 60.6 | 231.8 | 21 |
| 17 | 64.7 | 220.8 | 20 |
| 18 | 68.7 | 210.9 | 19 |
| 19 | 72.8 | 202.3 | 18 |
| 20 | 76.8 | 195.0 | 17 |
| 21 | 80.9 | 189.1 | 17 |
| 22 | 84.9 | 184.7 | 16 |
| 23 | 88.9 | 181.7 | 16 |
| 24 | 93.0 | 180.2 | 16 |
| 25 | 97.0 | 180.2 | 16 |
| 26 | 101.1 | 181.7 | 16 |
| 27 | 105.1 | 184.7 | 16 |
| 28 | 109.1 | 189.1 | 17 |
| 29 | 113.2 | 195.0 | 17 |
| 30 | 117.2 | 202.3 | 18 |
| 31 | 121.3 | 210.9 | 19 |
| 32 | 125.3 | 220.8 | 20 |
| 33 | 129.4 | 231.8 | 21 |
| 34 | 133.4 | 244.1 | 22 |
| 35 | 137.4 | 257.4 | 23 |
| 36 | 141.5 | 271.7 | 24 |
| 37 | 145.5 | 286.9 | 26 |
| 38 | 149.6 | 303.0 | 27 |
| 39 | 153.6 | 320.0 | 28 |
| 40 | 157.7 | 337.7 | 30 |
| 41 | 161.7 | 356.1 | 32 |
| 42 | 165.7 | 15.1 | 1 |
| 43 | 169.8 | 34.7 | 3 |
| 44 | 173.8 | 54.9 | 5 |
| 45 | 177.9 | 75.6 | 7 |
| 46 | 181.9 | 96.7 | 9 |
| 47 | 186.0 | 118.3 | 11 |
| 48 | 190.0 | 140.3 | 12 |

Welle 4

| NT 1 | I NT 1 | 1 TY: 1 1: O 1 | 1777 1 1 1 |
|-----------------|----------------------|------------------|--|
| Nockenposition | Nockenposition in cm | Winkel in Grad | Winkel in mm |
| 1 | 2.0 | 85.4 | 8 |
| $\frac{2}{3}$ | 6.1 | 62.4 | 6 |
| | 10.1 | 39.8 | $egin{pmatrix} 4 \ 2 \end{bmatrix}$ |
| 4 5 | 14.1 | 17.5 | $\frac{2}{32}$ |
| 6 | 18.2 22.2 | 355.7 | 30 |
| o 7 | | 334.4 313.6 | |
| 8 | 26.3 | | 28 26 |
| 9 | 30.3 | 293.4 | 20 |
| 10 | 34.4 38.4 | 273.9 | 24 23 |
| 10 | 42.4 | 255.0 | 25 |
| 12 | 46.5 | 236.9 | $\begin{vmatrix} 21\\20 \end{vmatrix}$ |
| 13 | 50.5 | $219.6 \\ 203.3$ | 18 |
| 14 | 54.6 | 187.9 | 17 |
| 15 | 58.6 | 173.7 | 15 |
| 16 | 62.7 | 160.6 | 14 |
| 17 | 66.7 | 148.7 | 13 |
| 18 | 70.7 | 138.3 | 12 |
| 19 | 74.8 | 129.2 | 11 |
| 20 | 78.8 | 121.7 | 11 |
| $\frac{20}{21}$ | 82.9 | 115.7 | 10 |
| $\frac{21}{22}$ | 86.9 | 111.5 | 10 |
| 23 | 91.0 | 108.9 | 10 |
| $\frac{26}{24}$ | 95.0 | 108.0 | 10 |
| $\frac{21}{25}$ | 99.0 | 108.9 | 10 |
| 26 | 103.1 | 111.5 | 10 |
| $\frac{1}{27}$ | 107.1 | 115.7 | 10 |
| 28 | 111.2 | 121.7 | 11 |
| 29 | 115.2 | 129.2 | 11 |
| 30 | 119.3 | 138.3 | 12 |
| 31 | 123.3 | 148.7 | 13 |
| 32 | 127.3 | 160.6 | 14 |
| 33 | 131.4 | 173.7 | 15 |
| 34 | 135.4 | 187.9 | 17 |
| 35 | 139.5 | 203.3 | 18 |
| 36 | 143.5 | 219.6 | 20 |
| 37 | 147.6 | 236.9 | 21 |
| 38 | 151.6 | 255.0 | 23 |
| 39 | 155.6 | 273.9 | 24 |
| 40 | 159.7 | 293.4 | 26 |
| 41 | 163.7 | 313.6 | 28 |
| 42 | 167.8 | 334.4 | 30 |
| 43 | 171.8 | 355.7 | 32 |
| 44 | 175.9 | 17.5 | 2 |
| 45 | 179.9 | 39.8 | 4 |
| 46 | 183.9 | 62.4 | 6 |
| 47 | 188.0 | 85.4 | 8 |

Welle 5

| Nockenposition | Nockenposition in cm | Winkel in Grad | Winkel in mm |
|----------------|----------------------|----------------|-----------------|
| 1 | 0.0 | 58.1 | 5 |
| 2 | 4.0 | 33.7 | 3 |
| 3 | 8.1 | 9.6 | 1 |
| 4 | 12.1 | 345.8 | 31 |
| 5 | 16.2 | 322.4 | 29 |
| 6 | 20.2 | 299.4 | $\frac{27}{27}$ |
| 7 | 24.3 | 276.8 | 25 |
| 8 | 28.3 | 254.8 | 23 |
| 9 | 32.3 | 233.3 | $\frac{20}{21}$ |
| 10 | 36.4 | 212.4 | 19 |
| 11 | 40.4 | 192.1 | 17 |
| 12 | 44.5 | 172.7 | 15 |
| 13 | 48.5 | 154.0 | 14 |
| 14 | 52.6 | 136.4 | 12 |
| 15 | 56.6 | 119.7 | 11 |
| 16 | 60.6 | 104.2 | 9 |
| 17 | 64.7 | 90.0 | 8 |
| 18 | 68.7 | 77.2 | 7 |
| 19 | 72.8 | 65.9 | 6 |
| 20 | 76.8 | 56.2 | 5 |
| 21 | 80.9 | 48.4 | 4 |
| 22 | 84.9 | 42.4 | 4 |
| 23 | 88.9 | 38.3 | 3 |
| 24 | 93.0 | 36.3 | 3 |
| 25 | 97.0 | 36.3 | 3 |
| 26 | 101.1 | 38.3 | 3 |
| 27 | 105.1 | 42.4 | 4 |
| 28 | 109.1 | 48.4 | 4 |
| 29 | 113.2 | 56.2 | 5 |
| 30 | 117.2 | 65.9 | 6 |
| 31 | 121.3 | 77.2 | 7 |
| 32 | 125.3 | 90.0 | 8 |
| 33 | 129.4 | 104.2 | 9 |
| 34 | 133.4 | 119.7 | 11 |
| 35 | 137.4 | 136.4 | 12 |
| 36 | 141.5 | 154.0 | 14 |
| 37 | 145.5 | 172.7 | 15 |
| 38 | 149.6 | 192.1 | 17 |
| 39 | 153.6 | 212.4 | 19 |
| 40 | 157.7 | 233.3 | 21 |
| 41 | 161.7 | 254.8 | 23 |
| 42 | 165.7 | 276.8 | 25 |
| 43 | 169.8 | 299.4 | 27 |
| 44 | 173.8 | 322.4 | 29 |
| 45 | 177.9 | 345.8 | 31 |
| 46 | 181.9 | 9.6 | 1 |
| 47 | 186.0 | 33.7 | 3 |
| 48 | 190.0 | 58.1 | 5 |

Welle 6

| Nockenposition | Nockenposition in cm | Winkel in Grad | Winkel in mm |
|---|----------------------|----------------|-----------------|
| 1 | 2.0 | 11.2 | 1 |
| 2 | 6.1 | 345.8 | 31 |
| 3 | 10.1 | 320.6 | 28 |
| 4 | 14.1 | 295.6 | 26 |
| 5 | 18.2 | 271.0 | 24 |
| 6 | 22.2 | 246.7 | 22 |
| 7 | 26.3 | 222.9 | 20 |
| 8 | 30.3 | 199.4 | 18 |
| 9 | 34.4 | 176.4 | 16 |
| 10 | 38.4 | 154.0 | 14 |
| 11 | 42.4 | 132.2 | 12 |
| 12 | 46.5 | 111.1 | 10 |
| 13 | 50.5 | 90.8 | 8 |
| 14 | 54.6 | 71.5 | 6 |
| 15 | 58.6 | 53.2 | 5 |
| 16 | 62.7 | 36.2 | 3 |
| 17 | 66.7 | 20.5 | 2 |
| 18 | 70.7 | 6.4 | 1 |
| 19 | 74.8 | 354.0 | 31 |
| 20 | 78.8 | 343.5 | 31 |
| 21 | 82.9 | 335.1 | 30 |
| 22 | 86.9 | 329.0 | 29 |
| 23 | 91.0 | 325.3 | 29 |
| 24 | 95.0 | 324.0 | 29 |
| 25 | 99.0 | 325.3 | 29 |
| 26 | 103.1 | 329.0 | 29 |
| 27 | 107.1 | 335.1 | 30 |
| 28 | 111.2 | 343.5 | 31 |
| 29 | 115.2 | 354.0 | 31 |
| 30 | 119.3 | 6.4 | 1 |
| 31 | 123.3 | 20.5 | $\frac{2}{2}$ |
| 32 | 127.3 | 36.2 | 3 |
| 33 | 131.4 | 53.2 | 5 |
| 34 | 135.4 | 71.5 | 6 |
| 35 | 139.5 | 90.8 | 8 |
| 36 | 143.5 | 111.1 | 10 |
| 37 | 147.6 | 132.2 | 12 |
| 38 | 151.6 | 154.0 | 14 |
| 39 | 155.6 | 176.4 | 16 |
| 40 | 159.7 | 199.4 222.9 | 18 20 |
| $\begin{array}{c} 41 \\ 42 \end{array}$ | 163.7 167.8 | 222.9 | 20 22 |
| $\frac{42}{43}$ | 171.8 | 271.0 | 22 24 |
| 43 44 | 175.9 | 295.6 | $\frac{24}{26}$ |
| 44 45 | 179.9 | 320.6 | 28 |
| $\frac{45}{46}$ | 183.9 | 345.8 | 31 |
| 47 | 188.0 | 11.2 | 1 |
| -11 | 100.0 | 1 11.2 | 1 * |

Welle 7

| Nockenposition | Nockenposition in cm | Winkel in Grad | Winkel in mm |
|----------------|----------------------|----------------|--------------|
| 1 | 0.0 | 355.6 | 32 |
| 2 | 4.0 | 329.0 | 29 |
| 3 | 8.1 | 302.5 | 27 |
| 4 | 12.1 | 276.3 | 25 |
| 5 | 16.2 | 250.2 | 22 |
| 6 | 20.2 | 224.4 | 20 |
| 7 | 24.3 | 198.8 | 18 |
| 8 | 28.3 | 173.5 | 15 |
| 9 | 32.3 | 148.6 | 13 |
| 10 | 36.4 | 124.0 | 11 |
| 11 | 40.4 | 99.9 | 9 |
| 12 | 44.5 | 76.4 | 7 |
| 13 | 48.5 | 53.4 | 5 |
| 14 | 52.6 | 31.2 | 3 |
| 15 | 56.6 | 9.9 | 1 |
| 16 | 60.6 | 349.6 | 31 |
| 17 | 64.7 | 330.4 | 29 |
| 18 | 68.7 | 312.8 | 28 |
| 19 | 72.8 | 296.8 | 26 |
| 20 | 76.8 | 282.8 | 25 |
| 21 | 80.9 | 271.0 | 24 |
| 22 | 84.9 | 261.9 | 23 |
| 23 | 88.9 | 255.6 | 23 |
| 24 | 93.0 | 252.4 | 22 |
| 25 | 97.0 | 252.4 | 22 |
| 26 | 101.1 | 255.6 | 23 |
| 27 | 105.1 | 261.9 | 23 |
| 28 | 109.1 | 271.0 | 24 |
| 29 | 113.2 | 282.8 | 25 |
| 30 | 117.2 | 296.8 | 26 |
| 31 | 121.3 | 312.8 | 28 |
| 32 | 125.3 | 330.4 | 29 |
| 33 | 129.4 | 349.6 | 31 |
| 34 | 133.4 | 9.9 | 1 |
| 35 | 137.4 | 31.2 | 3 |
| 36 | 141.5 | 53.4 | 5 |
| 37 | 145.5 | 76.4 | 7 |
| 38 | 149.6 | 99.9 | 9 |
| 39 | 153.6 | 124.0 | 11 |
| 40 | 157.7 | 148.6 | 13 |
| 41 | 161.7 | 173.5 | 15 |
| 42 | 165.7 | 198.8 | 18 |
| 43 | 169.8 | 224.4 | 20 |
| 44 | 173.8 | 250.2 | 22 |
| 45 | 177.9 | 276.3 | 25 |
| 46 | 181.9 | 302.5 | 27 |
| 47 | 186.0 | 329.0 | 29 |
| 48 | 190.0 | 355.6 | 32 |

Welle 8

| Nockenposition | Nockenposition in cm | Winkel in Grad | Winkel in mm |
|----------------|----------------------|----------------|--------------|
| 1 | 2.0 | 319.8 | 28 |
| 2 | 6.1 | 292.3 | 26 |
| 3 | 10.1 | 265.0 | 24 |
| 4 | 14.1 | 237.7 | 21 |
| 5 | 18.2 | 210.6 | 19 |
| 6 | 22.2 | 183.7 | 16 |
| 7 | 26.3 | 156.9 | 14 |
| 8 | 30.3 | 130.2 | 12 |
| 9 | 34.4 | 103.8 | 9 |
| 10 | 38.4 | 77.7 | 7 |
| 11 | 42.4 | 51.9 | 5 |
| 12 | 46.5 | 26.5 | 2 |
| 13 | 50.5 | 1.5 | 0 |
| 14 | 54.6 | 337.1 | 30 |
| 15 | 58.6 | 313.4 | 28 |
| 16 | 62.7 | 290.5 | 26 |
| 17 | 66.7 | 268.7 | 24 |
| 18 | 70.7 | 248.3 | 22 |
| 19 | 74.8 | 229.6 | 20 |
| 20 | 78.8 | 213.1 | 19 |
| 21 | 82.9 | 199.3 | 18 |
| 22 | 86.9 | 188.8 | 17 |
| 23 | 91.0 | 182.2 | 16 |
| 24 | 95.0 | 180.0 | 16 |
| 25 | 99.0 | 182.2 | 16 |
| 26 | 103.1 | 188.8 | 17 |
| 27 | 107.1 | 199.3 | 18 |
| 28 | 111.2 | 213.1 | 19 |
| 29 | 115.2 | 229.6 | 20 |
| 30 | 119.3 | 248.3 | 22 |
| 31 | 123.3 | 268.7 | 24 |
| 32 | 127.3 | 290.5 | 26 |
| 33 | 131.4 | 313.4 | 28 |
| 34 | 135.4 | 337.1 | 30 |
| 35 | 139.5 | 1.5 | 0 |
| 36 | 143.5 | 26.5 | 2 |
| 37 | 147.6 | 51.9 | 5 |
| 38 | 151.6 | 77.7 | 7 |
| 39 | 155.6 | 103.8 | 9 |
| 40 | 159.7 | 130.2 | 12 |
| 41 | 163.7 | 156.9 | 14 |
| 42 | 167.8 | 183.7 | 16 |
| 43 | 171.8 | 210.6 | 19 |
| 44 | 175.9 | 237.7 | 21 |
| 45 | 179.9 | 265.0 | 24 |
| 46 | 183.9 | 292.3 | 26 |
| 47 | 188.0 | 319.8 | 28 |

Welle 9

| Nockenposition | Nockenposition in cm | Winkel in Grad | Winkel in mm |
|----------------|----------------------|----------------|--------------|
| 1 | 0.0 | 318.4 | 28 |
| 2 | 4.0 | 290.3 | 26 |
| 3 | 8.1 | 262.2 | 23 |
| 4 | 12.1 | 234.1 | 21 |
| 5 | 16.2 | 206.1 | 18 |
| 6 | 20.2 | 178.2 | 16 |
| 7 | 24.3 | 150.3 | 13 |
| 8 | 28.3 | 122.5 | 11 |
| 9 | 32.3 | 94.8 | 8 |
| 10 | 36.4 | 67.1 | 6 |
| 11 | 40.4 | 39.6 | 4 |
| 12 | 44.5 | 12.3 | 1 |
| 13 | 48.5 | 345.1 | 31 |
| 14 | 52.6 | 318.1 | 28 |
| 15 | 56.6 | 291.5 | 26 |
| 16 | 60.6 | 265.2 | 24 |
| 17 | 64.7 | 239.5 | 21 |
| 18 | 68.7 | 214.4 | 19 |
| 19 | 72.8 | 190.4 | 17 |
| 20 | 76.8 | 167.7 | 15 |
| 21 | 80.9 | 147.0 | 13 |
| 22 | 84.9 | 129.4 | 12 |
| 23 | 88.9 | 116.2 | 10 |
| 24 | 93.0 | 108.9 | 10 |
| 25 | 97.0 | 108.9 | 10 |
| 26 | 101.1 | 116.2 | 10 |
| 27 | 105.1 | 129.4 | 12 |
| 28 | 109.1 | 147.0 | 13 |
| 29 | 113.2 | 167.7 | 15 |
| 30 | 117.2 | 190.4 | 17 |
| 31 | 121.3 | 214.4 | 19 |
| 32 | 125.3 | 239.5 | 21 |
| 33 | 129.4 | 265.2 | 24 |
| 34 | 133.4 | 291.5 | 26 |
| 35 | 137.4 | 318.1 | 28 |
| 36 | 141.5 | 345.1 | 31 |
| 37 | 145.5 | 12.3 | 1 |
| 38 | 149.6 | 39.6 | 4 |
| 39 | 153.6 | 67.1 | 6 |
| 40 | 157.7 | 94.8 | 8 |
| 41 | 161.7 | 122.5 | 11 |
| 42 | 165.7 | 150.3 | 13 |
| 43 | 169.8 | 178.2 | 16 |
| 44 | 173.8 | 206.1 | 18 |
| 45 | 177.9 | 234.1 | 21 |
| 46 | 181.9 | 262.2 | 23 |
| 47 | 186.0 | 290.3 | 26 |
| 48 | 190.0 | 318.4 | 28 |

Welle 10

| Nockenposition | Nockenposition in cm | Winkel in Grad | Winkel in mm |
|----------------|----------------------|----------------|--------------|
| 1 | 2.0 | 296.5 | 26 |
| 2 | 6.1 | 268.0 | 24 |
| 3 | 10.1 | 239.6 | 21 |
| 4 | 14.1 | 211.1 | 19 |
| 5 | 18.2 | 182.7 | 16 |
| 6 | 22.2 | 154.3 | 14 |
| 7 | 26.3 | 125.8 | 11 |
| 8 | 30.3 | 97.4 | 9 |
| 9 | 34.4 | 69.0 | 6 |
| 10 | 38.4 | 40.6 | 4 |
| 11 | 42.4 | 12.2 | 1 |
| 12 | 46.5 | 343.9 | 31 |
| 13 | 50.5 | 315.6 | 28 |
| 14 | 54.6 | 287.3 | 26 |
| 15 | 58.6 | 259.0 | 23 |
| 16 | 62.7 | 230.8 | 21 |
| 17 | 66.7 | 202.7 | 18 |
| 18 | 70.7 | 174.7 | 16 |
| 19 | 74.8 | 147.0 | 13 |
| 20 | 78.8 | 119.5 | 11 |
| 21 | 82.9 | 92.8 | 8 |
| 22 | 86.9 | 67.4 | 6 |
| 23 | 91.0 | 45.9 | 4 |
| 24 | 95.0 | 36.0 | 3 |
| 25 | 99.0 | 45.9 | 4 |
| 26 | 103.1 | 67.4 | 6 |
| 27 | 107.1 | 92.8 | 8 |
| 28 | 111.2 | 119.5 | 11 |
| 29 | 115.2 | 147.0 | 13 |
| 30 | 119.3 | 174.7 | 16 |
| 31 | 123.3 | 202.7 | 18 |
| 32 | 127.3 | 230.8 | 21 |
| 33 | 131.4 | 259.0 | 23 |
| 34 | 135.4 | 287.3 | 26 |
| 35 | 139.5 | 315.6 | 28 |
| 36 | 143.5 | 343.9 | 31 |
| 37 | 147.6 | 12.2 | 1 |
| 38 | 151.6 | 40.6 | 4 |
| 39 | 155.6 | 69.0 | 6 |
| 40 | 159.7 | 97.4 | 9 |
| 41 | 163.7 | 125.8 | 11 |
| 42 | 167.8 | 154.3 | 14 |
| 43 | 171.8 | 182.7 | 16 |
| 44 | 175.9 | 211.1 | 19 |
| 45 | 179.9 | 239.6 | 21 |
| 46 | 183.9 | 268.0 | 24 |
| 47 | 188.0 | 296.5 | 26 |

Welle 11

| Nockenposition | Nockenposition in cm | Winkel in Grad | Winkel in mm |
|----------------|----------------------|----------------|--------------|
| 1 | 0.0 | 310.7 | 28 |
| 2 | 4.0 | 282.3 | 25 |
| 3 | 8.1 | 253.8 | 23 |
| 4 | 12.1 | 225.4 | 20 |
| 5 | 16.2 | 196.9 | 18 |
| 6 | 20.2 | 168.5 | 15 |
| 7 | 24.3 | 140.0 | 12 |
| 8 | 28.3 | 111.6 | 10 |
| 9 | 32.3 | 83.2 | 7 |
| 10 | 36.4 | 54.8 | 5 |
| 11 | 40.4 | 26.4 | 2 |
| 12 | 44.5 | 358.1 | 32 |
| 13 | 48.5 | 329.7 | 29 |
| 14 | 52.6 | 301.4 | 27 |
| 15 | 56.6 | 273.1 | 24 |
| 16 | 60.6 | 244.9 | 22 |
| 17 | 64.7 | 216.8 | 19 |
| 18 | 68.7 | 188.7 | 17 |
| 19 | 72.8 | 160.8 | 14 |
| 20 | 76.8 | 133.2 | 12 |
| 21 | 80.9 | 106.0 | 9 |
| 22 | 84.9 | 79.8 | 7 |
| 23 | 88.9 | 55.9 | 5 |
| 24 | 93.0 | 38.7 | 3 |
| 25 | 97.0 | 38.7 | 3 |
| 26 | 101.1 | 55.9 | 5 |
| 27 | 105.1 | 79.8 | 7 |
| 28 | 109.1 | 106.0 | 9 |
| 29 | 113.2 | 133.2 | 12 |
| 30 | 117.2 | 160.8 | 14 |
| 31 | 121.3 | 188.7 | 17 |
| 32 | 125.3 | 216.8 | 19 |
| 33 | 129.4 | 244.9 | 22 |
| 34 | 133.4 | 273.1 | 24 |
| 35 | 137.4 | 301.4 | 27 |
| 36 | 141.5 | 329.7 | 29 |
| 37 | 145.5 | 358.1 | 32 |
| 38 | 149.6 | 26.4 | 2 |
| 39 | 153.6 | 54.8 | 5 |
| 40 | 157.7 | 83.2 | 7 |
| 41 | 161.7 | 111.6 | 10 |
| 42 | 165.7 | 140.0 | 12 |
| 43 | 169.8 | 168.5 | 15 |
| 44 | 173.8 | 196.9 | 18 |
| 45 | 177.9 | 225.4 | 20 |
| 46 | 181.9 | 253.8 | 23 |
| 47 | 186.0 | 282.3 | 25 |
| 48 | 190.0 | 310.7 | 28 |

Welle 12

| Nockenposition | Nockenposition in cm | Winkel in Grad | Winkel in mm |
|----------------|----------------------|----------------|--------------|
| 1 | 2.0 | 304.3 | 27 |
| 2 | 6.1 | 276.2 | 25 |
| 3 | 10.1 | 248.2 | 22 |
| 4 | 14.1 | 220.1 | 20 |
| 5 | 18.2 | 192.2 | 17 |
| 6 | 22.2 | 164.2 | 15 |
| 7 | 26.3 | 136.4 | 12 |
| 8 | 30.3 | 108.6 | 10 |
| 9 | 34.4 | 80.9 | 7 |
| 10 | 38.4 | 53.4 | 5 |
| 11 | 42.4 | 25.9 | 2 |
| 12 | 46.5 | 358.6 | 32 |
| 13 | 50.5 | 331.6 | 29 |
| 14 | 54.6 | 304.8 | 27 |
| 15 | 58.6 | 278.3 | 25 |
| 16 | 62.7 | 252.3 | 22 |
| 17 | 66.7 | 226.9 | 20 |
| 18 | 70.7 | 202.2 | 18 |
| 19 | 74.8 | 178.8 | 16 |
| 20 | 78.8 | 157.0 | 14 |
| 21 | 82.9 | 137.7 | 12 |
| 22 | 86.9 | 122.1 | 11 |
| 23 | 91.0 | 111.7 | 10 |
| 24 | 95.0 | 108.0 | 10 |
| 25 | 99.0 | 111.7 | 10 |
| 26 | 103.1 | 122.1 | 11 |
| 27 | 107.1 | 137.7 | 12 |
| 28 | 111.2 | 157.0 | 14 |
| 29 | 115.2 | 178.8 | 16 |
| 30 | 119.3 | 202.2 | 18 |
| 31 | 123.3 | 226.9 | 20 |
| 32 | 127.3 | 252.3 | 22 |
| 33 | 131.4 | 278.3 | 25 |
| 34 | 135.4 | 304.8 | 27 |
| 35 | 139.5 | 331.6 | 29 |
| 36 | 143.5 | 358.6 | 32 |
| 37 | 147.6 | 25.9 | 2 |
| 38 | 151.6 | 53.4 | 5 |
| 39 | 155.6 | 80.9 | 7 |
| 40 | 159.7 | 108.6 | 10 |
| 41 | 163.7 | 136.4 | 12 |
| 42 | 167.8 | 164.2 | 15 |
| 43 | 171.8 | 192.2 | 17 |
| 44 | 175.9 | 220.1 | 20 |
| 45 | 179.9 | 248.2 | 22 |
| 46 | 183.9 | 276.2 | 25 |
| 47 | 188.0 | 304.3 | 27 |

Welle 13

| Nockenposition | Nockenposition in cm | Winkel in Grad | Winkel in mm |
|----------------|----------------------|----------------|--------------|
| 1 | 0.0 | 333.5 | 30 |
| 2 | 4.0 | 306.0 | 27 |
| 3 | 8.1 | 278.6 | 25 |
| 4 | 12.1 | 251.3 | 22 |
| 5 | 16.2 | 224.2 | 20 |
| 6 | 20.2 | 197.1 | 18 |
| 7 | 24.3 | 170.2 | 15 |
| 8 | 28.3 | 143.5 | 13 |
| 9 | 32.3 | 117.0 | 10 |
| 10 | 36.4 | 90.7 | 8 |
| 11 | 40.4 | 64.8 | 6 |
| 12 | 44.5 | 39.1 | 3 |
| 13 | 48.5 | 13.9 | 1 |
| 14 | 52.6 | 349.2 | 31 |
| 15 | 56.6 | 325.1 | 29 |
| 16 | 60.6 | 301.8 | 27 |
| 17 | 64.7 | 279.4 | 25 |
| 18 | 68.7 | 258.3 | 23 |
| 19 | 72.8 | 238.7 | 21 |
| 20 | 76.8 | 221.0 | 20 |
| 21 | 80.9 | 205.8 | 18 |
| 22 | 84.9 | 193.6 | 17 |
| 23 | 88.9 | 185.0 | 16 |
| 24 | 93.0 | 180.6 | 16 |
| 25 | 97.0 | 180.6 | 16 |
| 26 | 101.1 | 185.0 | 16 |
| 27 | 105.1 | 193.6 | 17 |
| 28 | 109.1 | 205.8 | 18 |
| 29 | 113.2 | 221.0 | 20 |
| 30 | 117.2 | 238.7 | 21 |
| 31 | 121.3 | 258.3 | 23 |
| 32 | 125.3 | 279.4 | 25 |
| 33 | 129.4 | 301.8 | 27 |
| 34 | 133.4 | 325.1 | 29 |
| 35 | 137.4 | 349.2 | 31 |
| 36 | 141.5 | 13.9 | 1 |
| 37 | 145.5 | 39.1 | 3 |
| 38 | 149.6 | 64.8 | 6 |
| 39 | 153.6 | 90.7 | 8 |
| 40 | 157.7 | 117.0 | 10 |
| 41 | 161.7 | 143.5 | 13 |
| 42 | 165.7 | 170.2 | 15 |
| 43 | 169.8 | 197.1 | 18 |
| 44 | 173.8 | 224.2 | 20 |
| 45 | 177.9 | 251.3 | 22 |
| 46 | 181.9 | 278.6 | 25 |
| 47 | 186.0 | 306.0 | 27 |
| 48 | 190.0 | 333.5 | 30 |

Welle 14

| Nockenposition | Nockenposition in cm | Winkel in Grad | Winkel in mm |
|----------------|----------------------|----------------|---------------|
| 1 | 2.0 | 342.3 | 30 |
| 2 | 6.1 | 315.7 | 28 |
| 3 | 10.1 | 289.4 | 26 |
| 4 | 14.1 | 263.2 | 23 |
| 5 | 18.2 | 237.3 | 21 |
| 6 | 22.2 | 211.6 | 19 |
| 7 | 26.3 | 186.1 | 17 |
| 8 | 30.3 | 161.0 | 14 |
| 9 | 34.4 | 136.2 | 12 |
| 10 | 38.4 | 111.9 | 10 |
| 11 | 42.4 | 88.1 | 8 |
| 12 | 46.5 | 64.8 | 6 |
| 13 | 50.5 | 42.2 | 4 |
| 14 | 54.6 | 20.4 | 2 |
| 15 | 58.6 | 359.6 | 32 |
| 16 | 62.7 | 339.8 | 30 |
| 17 | 66.7 | 321.4 | 29 |
| 18 | 70.7 | 304.5 | 27 |
| 19 | 74.8 | 289.5 | 26 |
| 20 | 78.8 | 276.6 | 25 |
| 21 | 82.9 | 266.1 | 24 |
| 22 | 86.9 | 258.4 | 23 |
| 23 | 91.0 | 253.6 | 23 |
| 24 | 95.0 | 252.0 | 22 |
| 25 | 99.0 | 253.6 | 23 |
| 26 | 103.1 | 258.4 | 23 |
| 27 | 107.1 | 266.1 | 24 |
| 28 | 111.2 | 276.6 | 25 |
| 29 | 115.2 | 289.5 | 26 |
| 30 | 119.3 | 304.5 | 27 |
| 31 | 123.3 | 321.4 | 29 |
| 32 | 127.3 | 339.8 | 30 |
| 33 | 131.4 | 359.6 | 32 |
| 34 | 135.4 | 20.4 | $\frac{2}{1}$ |
| 35 | 139.5 | 42.2 | 4 |
| 36 | 143.5 | 64.8 | 6 |
| 37 | 147.6 | 88.1 | 8 |
| 38 | 151.6 | 111.9 | 10 |
| 39 | 155.6 | 136.2 | 12 |
| 40 | 159.7 | 161.0 | 14 |
| 41 | 163.7 | 186.1 | 17 |
| 42 | 167.8 | 211.6 | 19 |
| 43 | 171.8 | 237.3 | 21 |
| 44 | 175.9 | 263.2 | 23 |
| 45 | 179.9 | 289.4 | 26 |
| 46 | 183.9 | 315.7 | 28 |
| 47 | 188.0 | 342.3 | 30 |

Welle 15

| Nockenposition | Nockenposition in cm | Winkel in Grad | Winkel in mm |
|----------------|----------------------|----------------|--------------|
| 1 | 0.0 | 24.0 | 2 |
| 2 | 4.0 | 358.5 | 32 |
| 3 | 8.1 | 333.1 | 30 |
| 4 | 12.1 | 308.1 | 27 |
| 5 | 16.2 | 283.3 | 25 |
| 6 | 20.2 | 258.8 | 23 |
| 7 | 24.3 | 234.7 | 21 |
| 8 | 28.3 | 211.1 | 19 |
| 9 | 32.3 | 187.8 | 17 |
| 10 | 36.4 | 165.1 | 15 |
| 11 | 40.4 | 143.0 | 13 |
| 12 | 44.5 | 121.5 | 11 |
| 13 | 48.5 | 100.9 | 9 |
| 14 | 52.6 | 81.1 | 7 |
| 15 | 56.6 | 62.2 | 6 |
| 16 | 60.6 | 44.6 | 4 |
| 17 | 64.7 | 28.2 | 3 |
| 18 | 68.7 | 13.2 | 1 |
| 19 | 72.8 | 359.9 | 32 |
| 20 | 76.8 | 348.5 | 31 |
| 21 | 80.9 | 339.0 | 30 |
| 22 | 84.9 | 331.7 | 29 |
| 23 | 88.9 | 326.8 | 29 |
| 24 | 93.0 | 324.3 | 29 |
| 25 | 97.0 | 324.3 | 29 |
| 26 | 101.1 | 326.8 | 29 |
| 27 | 105.1 | 331.7 | 29 |
| 28 | 109.1 | 339.0 | 30 |
| 29 | 113.2 | 348.5 | 31 |
| 30 | 117.2 | 359.9 | 32 |
| 31 | 121.3 | 13.2 | 1 |
| 32 | 125.3 | 28.2 | 3 |
| 33 | 129.4 | 44.6 | 4 |
| 34 | 133.4 | 62.2 | 6 |
| 35 | 137.4 | 81.1 | 7 |
| 36 | 141.5 | 100.9 | 9 |
| 37 | 145.5 | 121.5 | 11 |
| 38 | 149.6 | 143.0 | 13 |
| 39 | 153.6 | 165.1 | 15 |
| 40 | 157.7 | 187.8 | 17 |
| 41 | 161.7 | 211.1 | 19 |
| 42 | 165.7 | 234.7 | 21 |
| 43 | 169.8 | 258.8 | 23 |
| 44 | 173.8 | 283.3 | 25 |
| 45 | 177.9 | 308.1 | 27 |
| 46 | 181.9 | 333.1 | 30 |
| 47 | 186.0 | 358.5 | 32 |
| 48 | 190.0 | 24.0 | 2 |

Welle 16

| Nockenposition | Nockenposition in cm | Winkel in Grad | Winkel in mm |
|----------------|----------------------|----------------|--------------|
| 1 | 2.0 | 45.8 | 4 |
| 2 | 6.1 | 21.6 | 2 |
| 3 | 10.1 | 357.6 | 32 |
| 4 | 14.1 | 334.1 | 30 |
| 5 | 18.2 | 310.8 | 28 |
| 6 | 22.2 | 288.1 | 26 |
| 7 | 26.3 | 265.7 | 24 |
| 8 | 30.3 | 243.9 | 22 |
| 9 | 34.4 | 222.7 | 20 |
| 10 | 38.4 | 202.2 | 18 |
| 11 | 42.4 | 182.3 | 16 |
| 12 | 46.5 | 163.2 | 15 |
| 13 | 50.5 | 145.1 | 13 |
| 14 | 54.6 | 127.9 | 11 |
| 15 | 58.6 | 111.8 | 10 |
| 16 | 62.7 | 96.9 | 9 |
| 17 | 66.7 | 83.4 | 7 |
| 18 | 70.7 | 71.3 | 6 |
| 19 | 74.8 | 60.9 | 5 |
| 20 | 78.8 | 52.1 | 5 |
| 21 | 82.9 | 45.1 | 4 |
| 22 | 86.9 | 40.1 | 4 |
| 23 | 91.0 | 37.0 | 3 |
| 24 | 95.0 | 36.0 | 3 |
| 25 | 99.0 | 37.0 | 3 |
| 26 | 103.1 | 40.1 | 4 |
| 27 | 107.1 | 45.1 | 4 |
| 28 | 111.2 | 52.1 | 5 |
| 29 | 115.2 | 60.9 | 5 |
| 30 | 119.3 | 71.3 | 6 |
| 31 | 123.3 | 83.4 | 7 |
| 32 | 127.3 | 96.9 | 9 |
| 33 | 131.4 | 111.8 | 10 |
| 34 | 135.4 | 127.9 | 11 |
| 35 | 139.5 | 145.1 | 13 |
| 36 | 143.5 | 163.2 | 15 |
| 37 | 147.6 | 182.3 | 16 |
| 38 | 151.6 | 202.2 | 18 |
| 39 | 155.6 | 222.7 | 20 |
| 40 | 159.7 | 243.9 | 22 |
| 41 | 163.7 | 265.7 | 24 |
| 42 | 167.8 | 288.1 | 26 |
| 43 | 171.8 | 310.8 | 28 |
| 44 | 175.9 | 334.1 | 30 |
| 45 | 179.9 | 357.6 | 32 |
| 46 | 183.9 | 21.6 | 2 |
| 47 | 188.0 | 45.8 | 4 |

Welle 17

| Nockenposition | Nockenposition in cm | Winkel in Grad | Winkel in mm |
|-------------------|----------------------|----------------|--------------|
| 1 | 0.0 | 97.1 | 9 |
| $\stackrel{-}{2}$ | 4.0 | 73.9 | 7 |
| 3 | 8.1 | 51.0 | 5 |
| 4 | 12.1 | 28.6 | 3 |
| 5 | 16.2 | 6.6 | 1 |
| 6 | 20.2 | 345.0 | 31 |
| 7 | 24.3 | 323.9 | 29 |
| 8 | 28.3 | 303.4 | 27 |
| 9 | 32.3 | 283.6 | 25 |
| 10 | 36.4 | 264.3 | 23 |
| 11 | 40.4 | 245.9 | 22 |
| 12 | 44.5 | 228.2 | 20 |
| 13 | 48.5 | 211.4 | 19 |
| 14 | 52.6 | 195.5 | 17 |
| 15 | 56.6 | 180.7 | 16 |
| 16 | 60.6 | 167.0 | 15 |
| 17 | 64.7 | 154.5 | 14 |
| 18 | 68.7 | 143.3 | 13 |
| 19 | 72.8 | 133.6 | 12 |
| 20 | 76.8 | 125.3 | 11 |
| 21 | 80.9 | 118.5 | 11 |
| 22 | 84.9 | 113.4 | 10 |
| 23 | 88.9 | 109.9 | 10 |
| 24 | 93.0 | 108.2 | 10 |
| 25 | 97.0 | 108.2 | 10 |
| 26 | 101.1 | 109.9 | 10 |
| 27 | 105.1 | 113.4 | 10 |
| 28 | 109.1 | 118.5 | 11 |
| 29 | 113.2 | 125.3 | 11 |
| 30 | 117.2 | 133.6 | 12 |
| 31 | 121.3 | 143.3 | 13 |
| 32 | 125.3 | 154.5 | 14 |
| 33 | 129.4 | 167.0 | 15 |
| 34 | 133.4 | 180.7 | 16 |
| 35 | 137.4 | 195.5 | 17 |
| 36 | 141.5 | 211.4 | 19 |
| 37 | 145.5 | 228.2 | 20 |
| 38 | 149.6 | 245.9 | 22 |
| 39 | 153.6 | 264.3 | 23 |
| 40 | 157.7 | 283.6 | 25 |
| 41 | 161.7 | 303.4 | 27 |
| 42 | 165.7 | 323.9 | 29 |
| 43 | 169.8 | 345.0 | 31 |
| 44 | 173.8 | 6.6 | 1 |
| 45 | 177.9 | 28.6 | 3 |
| 46 | 181.9 | 51.0 | 5 |
| 47 | 186.0 | 73.9 | 7 |
| 48 | 190.0 | 97.1 | 9 |

Welle 18

| Nockenposition | Nockenposition in cm | W:-11 : C 1 | XX7:11 : |
|----------------------|----------------------|----------------|--------------------|
| 1 | 2.0 | Winkel in Grad | Winkel in mm 11 |
| $\frac{1}{2}$ | 6.1 | 129.3 107.5 | 10 |
| $\frac{2}{3}$ | 10.1 | 86.1 | 8 |
| $\frac{3}{4}$ | 14.1 | 65.2 | $\frac{6}{6}$ |
| 5 | 18.2 | 44.7 | $\frac{6}{4}$ |
| 6 | 22.2 | 24.8 | 2 |
| 7 | 26.3 | 5.5 | 0 |
| 8 | 30.3 | 346.8 | 31 |
| $\overset{\circ}{9}$ | 34.4 | 328.7 | 29 |
| 10 | 38.4 | 311.4 | 28 |
| 11 | 42.4 | 294.9 | 26 |
| 12 | 46.5 | 279.2 | 25 |
| 13 | 50.5 | 264.4 | 24 |
| 14 | 54.6 | 250.6 | 22 |
| 15 | 58.6 | 237.8 | 21 |
| 16 | 62.7 | 226.2 | 20 |
| 17 | 66.7 | 215.7 | 19 |
| 18 | 70.7 | 206.4 | 18 |
| 19 | 74.8 | 198.5 | 18 |
| 20 | 78.8 | 191.9 | 17 |
| 21 | 82.9 | 186.7 | 17 |
| 22 | 86.9 | 183.0 | 16 |
| 23 | 91.0 | 180.8 | 16 |
| 24 | 95.0 | 180.0 | 16 |
| 25 | 99.0 | 180.8 | 16 |
| 26 | 103.1 | 183.0 | 16 |
| 27 | 107.1 | 186.7 | 17 |
| 28 | 111.2 | 191.9 | 17 |
| 29 | 115.2 | 198.5 | 18 |
| 30 | 119.3 | 206.4 | 18 |
| 31 | 123.3 | 215.7 | 19 |
| 32 | 127.3 | 226.2 | 20 |
| 33 | 131.4 | 237.8 | 21 |
| 34 | 135.4 | 250.6 | 22 |
| 35 | 139.5 | 264.4 | 24 |
| 36 | 143.5 | 279.2 | 25 |
| 37 | 147.6 | 294.9 | 26 |
| 38 | 151.6 | 311.4 | 28 |
| 39 | 155.6 | 328.7 | 29 |
| 40 | 159.7 | 346.8 | 31 |
| 41 | 163.7 | 5.5 | 0 |
| 42 | 167.8 | 24.8 | 2 |
| 43 | 171.8 | 44.7 | 4 |
| 44 | 175.9 | 65.2 | 6 |
| 45 | 179.9 | 86.1 | 8 |
| 46 | 183.9 | 107.5 | 10 |
| 47 | 188.0 | 129.3 | 11 |

Welle 19

| Nockenposition | Nockenposition in cm | Winkel in Grad | Winkel in mm |
|-----------------------|----------------------|----------------|--------------|
| 1 | 0.0 | 187.3 | 17 |
| 2 | 4.0 | 166.4 | 15 |
| 3 | 8.1 | 146.0 | 13 |
| $\stackrel{\circ}{4}$ | 12.1 | 126.1 | 11 |
| 5 | 16.2 | 106.7 | 9 |
| 6 | 20.2 | 87.8 | 8 |
| 7 | 24.3 | 69.5 | 6 |
| 8 | 28.3 | 51.8 | 5 |
| 9 | 32.3 | 34.8 | 3 |
| 10 | 36.4 | 18.5 | 2 |
| 11 | 40.4 | 2.9 | 0 |
| 12 | 44.5 | 348.1 | 31 |
| 13 | 48.5 | 334.2 | 30 |
| 14 | 52.6 | 321.2 | 29 |
| 15 | 56.6 | 309.2 | 27 |
| 16 | 60.6 | 298.2 | 27 |
| 17 | 64.7 | 288.3 | 26 |
| 18 | 68.7 | 279.4 | 25 |
| 19 | 72.8 | 271.8 | 24 |
| 20 | 76.8 | 265.3 | 24 |
| 21 | 80.9 | 260.1 | 23 |
| 22 | 84.9 | 256.1 | 23 |
| 23 | 88.9 | 253.5 | 23 |
| 24 | 93.0 | 252.2 | 22 |
| 25 | 97.0 | 252.2 | 22 |
| 26 | 101.1 | 253.5 | 23 |
| 27 | 105.1 | 256.1 | 23 |
| 28 | 109.1 | 260.1 | 23 |
| 29 | 113.2 | 265.3 | 24 |
| 30 | 117.2 | 271.8 | 24 |
| 31 | 121.3 | 279.4 | 25 |
| 32 | 125.3 | 288.3 | 26 |
| 33 | 129.4 | 298.2 | 27 |
| 34 | 133.4 | 309.2 | 27 |
| 35 | 137.4 | 321.2 | 29 |
| 36 | 141.5 | 334.2 | 30 |
| 37 | 145.5 | 348.1 | 31 |
| 38 | 149.6 | 2.9 | 0 |
| 39 | 153.6 | 18.5 | 2 |
| 40 | 157.7 | 34.8 | 3 |
| 41 | 161.7 | 51.8 | 5 |
| 42 | 165.7 | 69.5 | 6 |
| 43 | 169.8 | 87.8 | 8 |
| 44 | 173.8 | 106.7 | 9 |
| 45 | 177.9 | 126.1 | 11 |
| 46 | 181.9 | 146.0 | 13 |
| 47 | 186.0 | 166.4 | 15 |
| 48 | 190.0 | 187.3 | 17 |

Welle 20

| Nockenposition | Nockenposition in cm | Winkel in Grad | Winkel in mm |
|----------------|----------------------|----------------|--------------|
| 1 | 2.0 | 227.4 | 20 |
| 2 | 6.1 | 207.9 | 18 |
| 3 | 10.1 | 188.9 | 17 |
| 4 | 14.1 | 170.4 | 15 |
| 5 | 18.2 | 152.4 | 14 |
| 6 | 22.2 | 135.0 | 12 |
| 7 | 26.3 | 118.2 | 11 |
| 8 | 30.3 | 102.1 | 9 |
| 9 | 34.4 | 86.6 | 8 |
| 10 | 38.4 | 71.9 | 6 |
| 11 | 42.4 | 57.9 | 5 |
| 12 | 46.5 | 44.7 | 4 |
| 13 | 50.5 | 32.4 | 3 |
| 14 | 54.6 | 21.0 | 2 |
| 15 | 58.6 | 10.5 | 1 |
| 16 | 62.7 | 1.0 | 0 |
| 17 | 66.7 | 352.5 | 31 |
| 18 | 70.7 | 345.1 | 31 |
| 19 | 74.8 | 338.7 | 30 |
| 20 | 78.8 | 333.4 | 30 |
| 21 | 82.9 | 329.3 | 29 |
| 22 | 86.9 | 326.4 | 29 |
| 23 | 91.0 | 324.6 | 29 |
| 24 | 95.0 | 324.0 | 29 |
| 25 | 99.0 | 324.6 | 29 |
| 26 | 103.1 | 326.4 | 29 |
| 27 | 107.1 | 329.3 | 29 |
| 28 | 111.2 | 333.4 | 30 |
| 29 | 115.2 | 338.7 | 30 |
| 30 | 119.3 | 345.1 | 31 |
| 31 | 123.3 | 352.5 | 31 |
| 32 | 127.3 | 1.0 | 0 |
| 33 | 131.4 | 10.5 | 1 |
| 34 | 135.4 | 21.0 | 2 |
| 35 | 139.5 | 32.4 | 3 |
| 36 | 143.5 | 44.7 | 4 |
| 37 | 147.6 | 57.9 | 5 |
| 38 | 151.6 | 71.9 | 6 |
| 39 | 155.6 | 86.6 | 8 |
| 40 | 159.7 | 102.1 | 9 |
| 41 | 163.7 | 118.2 | 11 |
| 42 | 167.8 | 135.0 | 12 |
| 43 | 171.8 | 152.4 | 14 |
| 44 | 175.9 | 170.4 | 15 |
| 45 | 179.9 | 188.9 | 17 |
| 46 | 183.9 | 207.9 | 18 |
| 47 | 188.0 | 227.4 | 20 |