

|                 | <b>Measurement of roundness by Dial gauge deflections of 6-mm Diameter Mild Steel (MS) Round Bar Before Straightening</b> |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
|-----------------|---|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
|                 | Mean values of Dial Gauge Deflection Readings before straightening of 6 mm MS round bar x 0.01 mm                         |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
|                 | Angles in Degrees   |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
| Length<br>in cm | 0°  | 15° | 30° | 45° | 60° | 75° | 90° | 105° | 120° | 135° | 150° | 165° | 180° | 195° | 210° | 225° | 240° | 255° | 270° | 285° | 300° | 315° | 330° | 345° | STD<br>DEV<br>(mm) |
| 16.3            | 191   | 191 | 194 | 194 | 193 | 194 | 193 | 192  | 190  | 189  | 185  | 184  | 181  | 179  | 179  | 178  | 181  | 182  | 181  | 183  | 187  | 189  | 191  | 190  | 0.05431            |
| 20.0            | 180   | 181 | 182 | 183 | 184 | 186 | 184 | 185  | 187  | 190  | 189  | 183  | 183  | 182  | 177  | 175  | 174  | 171  | 172  | 168  | 167  | 166  | 169  | 173  | 0.07055            |
| 25.0            | 163   | 168 | 171 | 173 | 174 | 176 | 178 | 182  | 183  | 182  | 185  | 182  | 181  | 182  | 178  | 175  | 173  | 172  | 173  | 168  | 167  | 165  | 165  | 166  | 0.05431            |
| 30.0            | 174   | 174 | 176 | 176 | 178 | 182 | 183 | 183  | 185  | 186  | 185  | 188  | 187  | 185  | 186  | 184  | 184  | 185  | 181  | 176  | 177  | 176  | 174  | 174  | 0.05128            |
| 35.0            | 178   | 175 | 176 | 175 | 182 | 184 | 185 | 184  | 182  | 184  | 184  | 185  | 185  | 187  | 187  | 185  | 183  | 180  | 182  | 182  | 176  | 177  | 174  | 175  | 0.04505            |
| 40.0            | 165   | 166 | 164 | 170 | 166 | 171 | 175 | 174  | 176  | 180  | 183  | 183  | 182  | 183  | 185  | 183  | 182  | 176  | 175  | 174  | 176  | 172  | 172  | 167  | 0.06652            |
| 45.0            | 168   | 165 | 166 | 166 | 166 | 165 | 165 | 172  | 175  | 174  | 175  | 176  | 182  | 180  | 182  | 181  | 184  | 184  | 181  | 175  | 176  | 174  | 172  | 169  | 0.06528            |
| 50.0            | 165   | 165 | 167 | 166 | 169 | 171 | 174 | 176  | 176  | 177  | 178  | 180  | 179  | 181  | 183  | 181  | 178  | 172  | 169  | 167  | 167  | 165  | 164  | 161  | 0.06718            |
| 55.0            | 172   | 168 | 163 | 162 | 164 | 165 | 168 | 170  | 173  | 173  | 177  | 178  | 181  | 185  | 181  | 183  | 183  | 183  | 181  | 178  | 180  | 178  | 177  | 175  | 0.06727            |
| 60.0            | 164   | 162 | 163 | 162 | 163 | 168 | 168 | 168  | 170  | 173  | 172  | 175  | 177  | 174  | 179  | 178  | 178  | 177  | 177  | 172  | 168  | 168  | 167  | 166  | 0.05681            |
| 65.0            | 158   | 158 | 158 | 158 | 155 | 157 | 156 | 156  | 156  | 162  | 163  | 166  | 168  | 170  | 172  | 176  | 174  | 175  | 172  | 173  | 169  | 164  | 164  | 163  | 0.06949            |
| 70.0            | 162   | 163 | 158 | 159 | 155 | 153 | 158 | 157  | 156  | 162  | 166  | 171  | 171  | 173  | 175  | 176  | 177  | 176  | 175  | 176  | 175  | 171  | 167  | 165  | 0.07757            |
| 75.0            | 168   | 168 | 166 | 165 | 163 | 165 | 164 | 164  | 167  | 167  | 171  | 173  | 174  | 175  | 180  | 181  | 179  | 179  | 182  | 181  | 175  | 178  | 177  | 175  | 0.06331            |
| 80.0            | 185   | 186 | 185 | 185 | 184 | 184 | 185 | 183  | 178  | 177  | 183  | 182  | 185  | 192  | 191  | 193  | 195  | 196  | 202  | 203  | 200  | 199  | 195  | 196  | 0.07348            |
| 85.0            | 204   | 208 | 205 | 204 | 203 | 200 | 200 | 197  | 192  | 195  | 193  | 193  | 185  | 190  | 192  | 193  | 195  | 198  | 202  | 203  | 205  | 204  | 202  | 203  | 0.05946            |
| 93.0            | 204   | 205 | 203 | 199 | 191 | 192 | 187 | 187  | 183  | 184  | 183  | 182  | 182  | 184  | 188  | 193  | 196  | 199  | 203  | 204  | 205  | 206  | 211  | 208  | 0.09622            |

|                 | Measurement of roundness by Dial gauge deflections of 8-mm Diameter Mild Steel (MS) Round Bar Before Straightening |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                 |
|-----------------|--|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------|
|                 | Mean values of Dial Gauge Deflection Readings before straightening of 8 mm MS round bar x 0.01 mm                  |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                 |
|                 | Angles in Degrees  |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                 |
| Length<br>in cm | 0°   | 15° | 30° | 45° | 60° | 75° | 90° | 105° | 120° | 135° | 150° | 165° | 180° | 195° | 210° | 225° | 240° | 255° | 270° | 285° | 300° | 315° | 330° | 345° | STD<br>DEV (mm) |
| 12              | 173  | 166 | 162 | 158 | 155 | 153 | 150 | 148  | 146  | 147  | 149  | 155  | 159  | 167  | 149  | 149  | 153  | 158  | 159  | 160  | 159  | 158  | 155  | 152  | 0.068437        |
| 17              | 152  | 150 | 149 | 145 | 141 | 142 | 138 | 135  | 131  | 128  | 126  | 126  | 128  | 130  | 135  | 140  | 145  | 150  | 155  | 157  | 157  | 158  | 157  | 154  | 0.109782        |
| 22              | 153  | 153 | 150 | 148 | 146 | 146 | 142 | 139  | 137  | 135  | 130  | 128  | 127  | 126  | 127  | 131  | 136  | 141  | 145  | 151  | 154  | 156  | 156  | 154  | 0.102921        |
| 27              | 149  | 149 | 148 | 146 | 144 | 143 | 140 | 140  | 138  | 134  | 131  | 129  | 126  | 124  | 123  | 122  | 125  | 129  | 134  | 138  | 142  | 145  | 148  | 149  | 0.093599        |
| 32              | 142  | 143 | 143 | 143 | 142 | 142 | 139 | 136  | 137  | 135  | 135  | 132  | 131  | 127  | 124  | 122  | 121  | 122  | 125  | 127  | 131  | 134  | 137  | 140  | 0.074103        |
| 35              | 126  | 128 | 130 | 133 | 133 | 134 | 132 | 130  | 131  | 132  | 132  | 131  | 129  | 128  | 124  | 120  | 119  | 118  | 117  | 117  | 117  | 119  | 122  | 125  | 0.059805        |
| 40              | 120  | 125 | 126 | 129 | 131 | 133 | 134 | 135  | 134  | 133  | 132  | 131  | 131  | 130  | 128  | 126  | 124  | 121  | 119  | 116  | 116  | 117  | 120  | 121  | 0.06303         |
| 45              | 115  | 119 | 122 | 125 | 129 | 131 | 133 | 133  | 132  | 132  | 132  | 132  | 132  | 132  | 131  | 130  | 126  | 119  | 121  | 118  | 116  | 116  | 115  | 115  | 0.069933        |
| 50              | 116  | 115 | 118 | 119 | 126 | 129 | 133 | 136  | 136  | 137  | 134  | 135  | 135  | 134  | 133  | 134  | 133  | 129  | 126  | 121  | 120  | 115  | 114  | 113  | 0.084929        |
| 55              | 113  | 112 | 111 | 108 | 107 | 113 | 118 | 121  | 125  | 127  | 129  | 127  | 122  | 123  | 129  | 127  | 128  | 129  | 130  | 126  | 119  | 116  | 115  | 113  | 0.074717        |
| 60              | 120  | 117 | 116 | 117 | 120 | 124 | 127 | 132  | 138  | 141  | 142  | 143  | 143  | 141  | 137  | 137  | 137  | 137  | 137  | 135  | 135  | 131  | 124  | 122  | 0.090289        |
| 65              | 122  | 121 | 116 | 116 | 116 | 118 | 122 | 124  | 126  | 133  | 138  | 139  | 140  | 140  | 138  | 136  | 135  | 133  | 133  | 133  | 132  | 131  | 128  | 126  | 0.081594        |
| 70              | 121  | 115 | 113 | 112 | 113 | 114 | 115 | 116  | 117  | 118  | 120  | 122  | 125  | 127  | 129  | 130  | 131  | 131  | 129  | 129  | 129  | 129  | 125  | 123  | 0.066821        |
| 75              | 125  | 124 | 120 | 116 | 114 | 113 | 113 | 113  | 115  | 117  | 117  | 120  | 125  | 126  | 127  | 128  | 129  | 130  | 128  | 125  | 125  | 126  | 127  | 126  | 0.058347        |
| 80              | 123  | 122 | 121 | 119 | 118 | 115 | 115 | 113  | 113  | 113  | 114  | 115  | 119  | 121  | 125  | 127  | 128  | 128  | 128  | 128  | 127  | 126  | 125  | 124  | 0.056169        |
| 85              | 119  | 118 | 118 | 118 | 116 | 113 | 111 | 110  | 109  | 107  | 107  | 107  | 108  | 109  | 110  | 113  | 115  | 117  | 119  | 120  | 120  | 121  | 120  | 119  | 0.050076        |
| 90              | 117  | 116 | 118 | 118 | 119 | 119 | 116 | 114  | 111  | 110  | 109  | 106  | 105  | 103  | 103  | 105  | 108  | 110  | 112  | 115  | 116  | 117  | 115  | 117  | 0.052789        |
| 95              | 120  | 120 | 120 | 120 | 121 | 120 | 121 | 117  | 116  | 114  | 112  | 109  | 107  | 105  | 105  | 104  | 106  | 108  | 112  | 114  | 116  | 118  | 119  | 119  | 0.059110        |
| 101.3           | 121  | 122 | 120 | 120 | 120 | 121 | 120 | 120  | 119  | 117  | 117  | 113  | 112  | 109  | 107  | 107  | 107  | 108  | 110  | 113  | 116  | 117  | 118  | 119  | 0.051086        |
| 106.3           | 121  | 123 | 122 | 122 | 121 | 121 | 120 | 117  | 116  | 116  | 112  | 110  | 109  | 109  | 113  | 116  | 119  | 123  | 120  | 124  | 125  | 125  | 124  | 122  | 0.051009        |

**Measurement of roundness by Dial gauge deflections of 10-mm Diameter Mild Steel (MS) Round Bar Before Straightening**  
**Mean values of Dial Gauge Deflection Readings before straightening of 10 mm Mild Steel round bar x 0.01 mm**

| Length<br>in cm | Angles in Degrees |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | STD<br>DEV (mm) |
|-----------------|-------------------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------|
|                 | 0°                | 15° | 30° | 45° | 60° | 75° | 90° | 105° | 120° | 135° | 150° | 165° | 180° | 195° | 210° | 225° | 240° | 255° | 270° | 285° | 300° | 315° | 330° | 345° |                 |
|                 |                   |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                 |
| 14.5            | 99                | 96  | 97  | 94  | 93  | 92  | 95  | 95   | 94   | 94   | 94   | 94   | 94   | 91   | 89   | 89   | 89   | 91   | 90   | 90   | 90   | 92   | 93   | 95   | 0.0253982       |
| 17              | 102               | 102 | 100 | 100 | 100 | 99  | 102 | 100  | 100  | 97   | 97   | 95   | 98   | 94   | 95   | 95   | 94   | 95   | 94   | 95   | 95   | 93   | 95   | 95   | 0.0283701       |
| 20              | 102               | 99  | 98  | 97  | 98  | 96  | 97  | 94   | 95   | 97   | 97   | 96   | 97   | 96   | 97   | 95   | 96   | 95   | 97   | 96   | 97   | 95   | 96   | 96   | 0.0158141       |
| 23.5            | 98                | 96  | 96  | 96  | 96  | 96  | 96  | 96   | 96   | 95   | 95   | 94   | 94   | 93   | 93   | 93   | 92   | 93   | 93   | 94   | 94   | 94   | 95   | 95   | 0.0152029       |
| 26              | 92                | 92  | 92  | 90  | 90  | 91  | 91  | 90   | 90   | 90   | 90   | 90   | 89   | 89   | 89   | 88   | 88   | 87   | 87   | 88   | 88   | 88   | 89   | 89   | 0.0154122       |
| 29              | 87                | 87  | 88  | 88  | 88  | 88  | 88  | 88   | 89   | 88   | 88   | 87   | 88   | 86   | 86   | 85   | 84   | 84   | 84   | 83   | 84   | 84   | 85   | 85   | 0.0177151       |
| 31.5            | 98                | 95  | 94  | 95  | 94  | 92  | 94  | 95   | 95   | 95   | 95   | 94   | 96   | 94   | 93   | 91   | 92   | 91   | 90   | 89   | 89   | 89   | 90   | 91   | 0.025553        |
| 34              | 96                | 93  | 94  | 93  | 94  | 95  | 95  | 95   | 95   | 95   | 95   | 95   | 96   | 93   | 93   | 93   | 93   | 92   | 91   | 90   | 91   | 90   | 90   | 91   | 0.0185525       |
| 37              | 92                | 90  | 90  | 90  | 91  | 92  | 93  | 93   | 93   | 93   | 92   | 108  | 92   | 91   | 89   | 89   | 89   | 89   | 89   | 89   | 89   | 89   | 89   | 90   | 0.0393474       |
| 40              | 91                | 89  | 89  | 89  | 89  | 89  | 90  | 89   | 90   | 90   | 89   | 89   | 89   | 89   | 89   | 89   | 89   | 89   | 90   | 89   | 89   | 89   | 89   | 90   | 0.0053236       |
| 43              | 92                | 92  | 92  | 91  | 92  | 92  | 91  | 93   | 93   | 93   | 92   | 91   | 91   | 89   | 88   | 89   | 90   | 89   | 89   | 88   | 87   | 89   | 89   | 89   | 0.0177617       |
| 46              | 95                | 91  | 93  | 93  | 93  | 94  | 94  | 93   | 93   | 94   | 92   | 91   | 94   | 93   | 88   | 89   | 88   | 89   | 88   | 87   | 88   | 89   | 90   | 90   | 0.0247392       |
| 49              | 94                | 90  | 91  | 91  | 93  | 92  | 94  | 94   | 93   | 93   | 93   | 90   | 94   | 91   | 90   | 90   | 89   | 89   | 89   | 89   | 89   | 90   | 90   | 90   | 0.0186489       |
| 52              | 96                | 95  | 97  | 95  | 96  | 97  | 98  | 98   | 98   | 96   | 95   | 94   | 95   | 95   | 94   | 94   | 93   | 93   | 93   | 92   | 90   | 90   | 91   | 90   | 0.0251318       |
| 55              | 92                | 92  | 94  | 94  | 93  | 92  | 95  | 92   | 91   | 92   | 92   | 91   | 94   | 92   | 92   | 91   | 93   | 91   | 89   | 88   | 88   | 88   | 88   | 90   | 0.019766        |
| 58              | 98                | 97  | 99  | 98  | 97  | 97  | 96  | 96   | 97   | 97   | 100  | 97   | 98   | 100  | 99   | 100  | 99   | 97   | 95   | 93   | 97   | 98   | 98   | 98   | 0.0159292       |
| 61              | 98                | 98  | 97  | 96  | 97  | 98  | 98  | 98   | 98   | 98   | 99   | 100  | 99   | 98   | 96   | 96   | 98   | 95   | 97   | 96   | 96   | 95   | 95   | 96   | 0.0146747       |
| 64              | 93                | 91  | 92  | 91  | 92  | 93  | 92  | 109  | 91   | 90   | 89   | 89   | 90   | 88   | 88   | 88   | 89   | 88   | 88   | 90   | 89   | 89   | 90   | 90   | 0.0415668       |
| 67              | 164               | 161 | 161 | 161 | 157 | 157 | 157 | 155  | 158  | 155  | 155  | 156  | 156  | 156  | 157  | 153  | 155  | 155  | 156  | 154  | 151  | 154  | 154  | 154  | 0.0301126       |
| 70              | 158               | 155 | 156 | 155 | 154 | 154 | 155 | 155  | 154  | 153  | 152  | 152  | 152  | 152  | 154  | 157  | 153  | 154  | 153  | 154  | 155  | 154  | 154  | 155  | 0.0148382       |
| 73              | 104               | 100 | 100 | 99  | 99  | 102 | 100 | 99   | 100  | 100  | 102  | 96   | 100  | 99   | 99   | 101  | 98   | 99   | 99   | 99   | 101  | 101  | 98   | 100  | 0.0151658       |
| 76              | 105               | 92  | 92  | 92  | 92  | 91  | 91  | 91   | 91   | 91   | 93   | 91   | 93   | 93   | 93   | 93   | 93   | 93   | 91   | 92   | 90   | 90   | 90   | 91   | 0.0284741       |
| 79              | 99                | 99  | 93  | 94  | 92  | 91  | 90  | 94   | 93   | 98   | 92   | 91   | 94   | 95   | 95   | 96   | 97   | 97   | 99   | 94   | 93   | 92   | 94   | 92   | 0.0271762       |
| 82              | 98                | 96  | 96  | 96  | 95  | 96  | 96  | 96   | 96   | 96   | 96   | 95   | 95   | 95   | 96   | 96   | 96   | 96   | 95   | 95   | 96   | 96   | 96   | 96   | 0.0063171       |
| 85              | 97                | 98  | 97  | 97  | 98  | 98  | 99  | 99   | 95   | 94   | 97   | 94   | 92   | 92   | 93   | 95   | 94   | 95   | 96   | 93   | 97   | 96   | 95   | 94   | 0.0219486       |
| 88              | 93                | 95  | 97  | 97  | 97  | 97  | 99  | 95   | 98   | 98   | 97   | 98   | 99   | 98   | 97   | 97   | 98   | 97   | 95   | 93   | 95   | 96   | 95   | 97   | 0.0159041       |
| 91              | 94                | 93  | 95  | 93  | 93  | 93  | 95  | 94   | 94   | 94   | 92   | 92   | 98   | 94   | 91   | 92   | 92   | 91   | 90   | 91   | 91   | 91   | 91   | 89   | 0.019437        |
| 94              | 97                | 96  | 98  | 98  | 99  | 95  | 100 | 98   | 96   | 96   | 91   | 93   | 94   | 94   | 94   | 94   | 92   | 92   | 95   | 95   | 94   | 95   | 95   | 97   | 0.0219155       |
| 97              | 151               | 150 | 150 | 150 | 151 | 151 | 150 | 150  | 147  | 147  | 147  | 148  | 148  | 146  | 146  | 146  | 146  | 146  | 146  | 147  | 147  | 147  | 147  | 149  | 0.0178126       |
| 100             | 153               | 150 | 151 | 150 | 152 | 157 | 159 | 160  | 156  | 156  | 154  | 155  | 154  | 155  | 155  | 155  | 155  | 155  | 155  | 156  | 157  | 157  | 161  | 163  | 0.032674        |
| 102             | 90                | 87  | 87  | 86  | 83  | 83  | 85  | 85   | 83   | 81   | 82   | 82   | 83   | 82   | 84   | 82   | 85   | 86   | 84   | 85   | 90   | 90   | 91   | 88   | 0.0288303       |

|     |     |     |     |     |     |     |     |     |    |    |    |    |     |    |    |    |    |    |    |     |    |    |    |     |           |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|-----|----|----|----|----|----|----|-----|----|----|----|-----|-----------|
| 104 | 85  | 83  | 82  | 83  | 83  | 79  | 81  | 79  | 80 | 78 | 77 | 77 | 80  | 78 | 77 | 77 | 77 | 78 | 76 | 78  | 79 | 81 | 79 | 80  | 0.0232452 |
| 107 | 94  | 92  | 93  | 93  | 92  | 92  | 91  | 90  | 90 | 89 | 89 | 89 | 88  | 88 | 88 | 88 | 87 | 87 | 88 | 89  | 89 | 90 | 90 | 91  | 0.0209637 |
| 111 | 101 | 98  | 97  | 93  | 94  | 93  | 91  | 91  | 86 | 87 | 87 | 87 | 90  | 89 | 93 | 89 | 93 | 90 | 86 | 82  | 89 | 92 | 93 | 93  | 0.0428827 |
| 114 | 99  | 99  | 99  | 101 | 102 | 100 | 103 | 100 | 98 | 97 | 97 | 99 | 103 | 99 | 99 | 96 | 97 | 97 | 97 | 100 | 98 | 97 | 97 | 100 | 0.0182502 |
| 118 | 102 | 100 | 100 | 100 | 99  | 97  | 98  | 97  | 95 | 89 | 89 | 90 | 90  | 90 | 88 | 85 | 86 | 87 | 88 | 90  | 91 | 92 | 95 | 96  | 0.0508057 |
| 122 | 89  | 85  | 86  | 87  | 88  | 86  | 87  | 86  | 85 | 83 | 83 | 77 | 84  | 85 | 83 | 84 | 84 | 82 | 85 | 85  | 80 | 79 | 85 | 84  | 0.0278409 |
| 127 | 88  | 85  | 85  | 87  | 89  | 87  | 84  | 81  | 80 | 78 | 79 | 80 | 82  | 83 | 82 | 80 | 82 | 81 | 85 | 84  | 84 | 81 | 84 | 84  | 0.0277348 |
| 131 | 95  | 95  | 93  | 93  | 94  | 91  | 90  | 87  | 87 | 88 | 89 | 90 | 92  | 90 | 91 | 91 | 89 | 90 | 89 | 91  | 92 | 93 | 92 | 90  | 0.0215768 |
| 138 | 94  | 99  | 99  | 97  | 98  | 96  | 98  | 97  | 97 | 98 | 98 | 98 | 98  | 99 | 98 | 97 | 97 | 98 | 98 | 96  | 97 | 95 | 97 | 97  | 0.0109086 |

**Measurement of roundness by Dial gauge deflections of 12-mm Diameter Mild Steel (MS) Round Bar Before Straightening**  
**Mean values of Dial Gauge Deflection Readings before straightening of 12 mm Mild Steel round bar x 0.01 mm**

|                 | Angles in Degrees |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
|-----------------|-------------------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
| Length<br>in cm | 0°                | 15° | 30° | 45° | 60° | 75° | 90° | 105° | 120° | 135° | 150° | 165° | 180° | 195° | 210° | 225° | 240° | 255° | 270° | 285° | 300° | 315° | 330° | 345° | STD<br>DEV<br>(mm) |
|                 |                   |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
| 12              | 59                | 59  | 60  | 60  | 62  | 61  | 63  | 64   | 64   | 66   | 66   | 66   | 67   | 67   | 68   | 67   | 68   | 66   | 66   | 64   | 63   | 62   | 61   | 61   | 0.02946            |
| 22.5            | 62                | 63  | 64  | 64  | 65  | 66  | 67  | 68   | 69   | 70   | 71   | 71   | 71   | 71   | 70   | 70   | 70   | 69   | 68   | 67   | 65   | 65   | 59   | 63   | 0.03294            |
| 32.5            | 70                | 71  | 71  | 72  | 73  | 73  | 76  | 77   | 77   | 78   | 78   | 79   | 79   | 78   | 78   | 79   | 77   | 76   | 76   | 73   | 72   | 70   | 70   | 70   | 0.03297            |
| 42.5            | 62                | 64  | 64  | 64  | 65  | 66  | 67  | 68   | 68   | 69   | 70   | 71   | 71   | 71   | 71   | 71   | 70   | 69   | 69   | 66   | 66   | 65   | 64   | 64   | 0.02864            |
| 52.5            | 64                | 64  | 64  | 64  | 64  | 65  | 65  | 67   | 68   | 69   | 70   | 71   | 71   | 71   | 71   | 71   | 70   | 70   | 69   | 67   | 66   | 65   | 64   | 63   | 0.02967            |
| 62.5            | 61                | 60  | 60  | 61  | 61  | 62  | 62  | 64   | 65   | 66   | 68   | 68   | 68   | 69   | 68   | 69   | 69   | 68   | 66   | 65   | 64   | 63   | 62   | 61   | 0.03098            |
| 72.5            | 63                | 63  | 62  | 62  | 61  | 61  | 62  | 63   | 64   | 64   | 65   | 66   | 66   | 67   | 67   | 68   | 68   | 68   | 68   | 67   | 65   | 64   | 62   | 62   | 0.02377            |
| 82.5            | 58                | 58  | 57  | 57  | 57  | 57  | 57  | 58   | 58   | 58   | 58   | 59   | 59   | 60   | 60   | 60   | 61   | 61   | 61   | 60   | 59   | 58   | 57   | 57   | 0.01402            |
| 92.5            | 51                | 52  | 52  | 51  | 52  | 52  | 53  | 52   | 52   | 53   | 53   | 53   | 53   | 54   | 54   | 54   | 54   | 53   | 52   | 51   | 51   | 51   | 49   | 50   | 0.01298            |
| 103.5           | 58                | 58  | 57  | 57  | 57  | 57  | 58  | 58   | 59   | 60   | 60   | 60   | 61   | 61   | 61   | 61   | 62   | 62   | 62   | 61   | 60   | 58   | 58   | 57   | 0.0178             |