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REV.  
B

SAE MA3279

FEDERAL SUPPLY CLASS

## RATIONALE

MA3279B HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

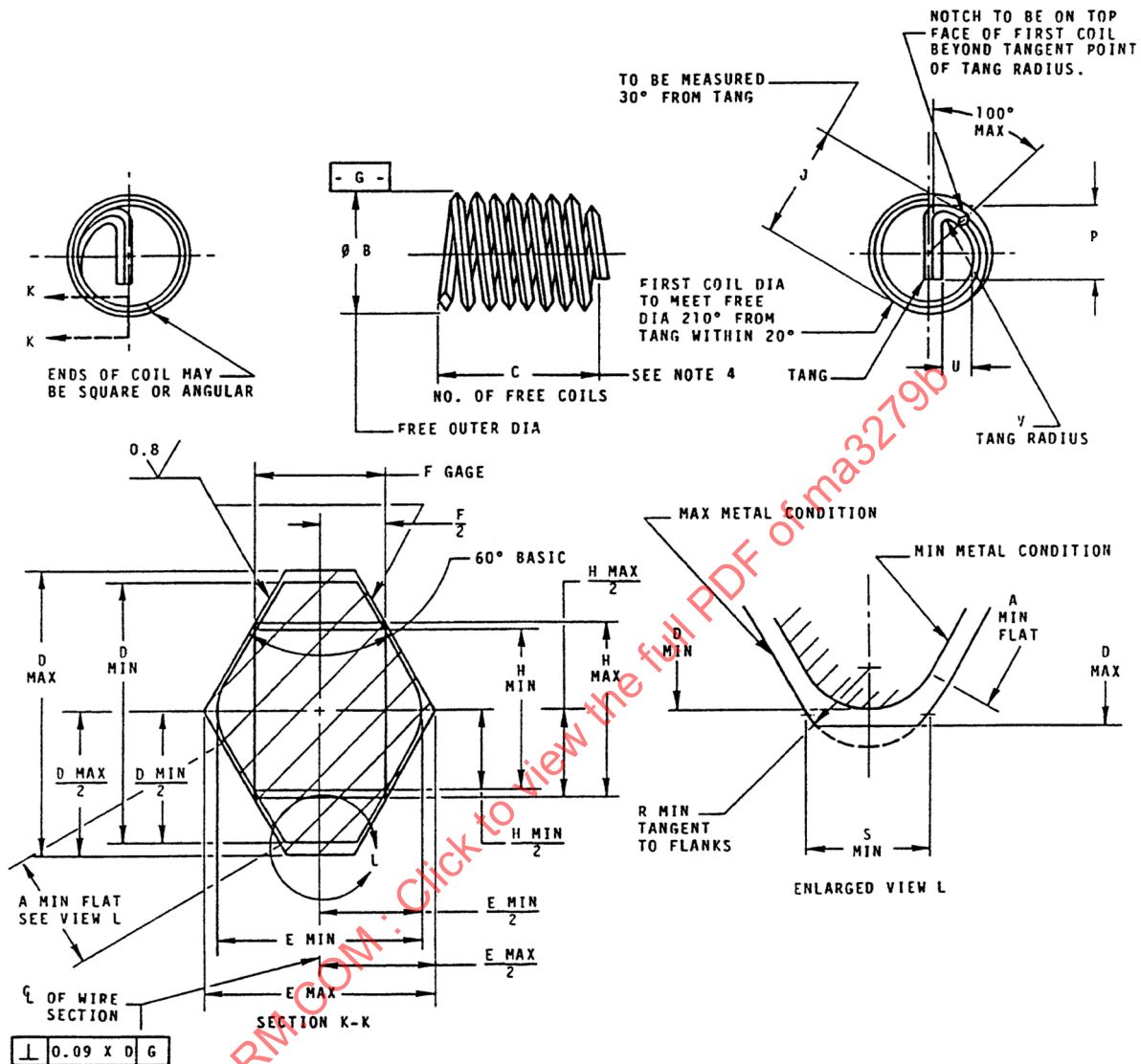
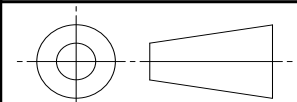


FIGURE 1

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/MA3279B>

THIRD ANGLE PROJECTION



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: NONE

**SAE Aerospace**  
An SAE International Group

## METRIC AEROSPACE STANDARD

INSERT, SCREW THREAD, HELICAL COIL,  
METRIC SERIES, FREE RUNNING, CRES, UNCOATED

**SAE MA3279**  
SHEET 1 OF 5

REV.  
B

TABLE 1

| THREAD<br>SIZE | THREAD<br>SIZE<br>PITCH | AEROSPACE<br>STANDARD<br>PART<br>NUMBER |  | AEROSPACE<br>STANDARD<br>PART<br>NUMBER |  | AEROSPACE<br>STANDARD<br>PART<br>NUMBER |  | AEROSPACE<br>STANDARD<br>PART<br>NUMBER |  | AEROSPACE<br>STANDARD<br>PART<br>NUMBER |  | AEROSPACE<br>STANDARD<br>PART<br>NUMBER |  | AEROSPACE<br>STANDARD<br>PART<br>NUMBER |  | AEROSPACE<br>STANDARD<br>PART<br>NUMBER |  | AEROSPACE<br>STANDARD<br>PART<br>NUMBER |  | AEROSPACE<br>STANDARD<br>PART<br>NUMBER |  | AEROSPACE<br>STANDARD<br>PART<br>NUMBER |  | AEROSPACE<br>STANDARD<br>PART<br>NUMBER |  | AEROSPACE<br>STANDARD<br>PART<br>NUMBER |  | AEROSPACE<br>STANDARD<br>PART<br>NUMBER |  | AEROSPACE<br>STANDARD<br>PART<br>NUMBER |  | AEROSPACE<br>STANDARD<br>PART<br>NUMBER |  | AEROSPACE<br>STANDARD<br>PART<br>NUMBER |  | AEROSPACE<br>STANDARD<br>PART<br>NUMBER |  | AEROSPACE<br>STANDARD<br>PART<br>NUMBER |  | AEROSPACE<br>STANDARD<br>PART<br>NUMBER |  | AEROSPACE<br>STANDARD<br>PART<br>NUMBER |  | 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TABLE 1 (CONTINUED)

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|-----------------------|-------------------------|--------------------------|----------------------------|--------------------------|----------------------------|--------------------------|----------|----------|----------|----------|-----------|----------|----------|----------|----------|
| 2                     | 0.4                     | 3.250                    | 5.500                      | 7.750                    | 10.125                     | 12.375                   | 0.389    | 0.433    | 0.274    | 0.350    | 0.200     | 0.2495   | 0.2600   | 2.50     | 2.70     |
| 2.2                   | 0.45                    | 3.125                    | 5.375                      | 7.625                    | 9.875                      | 12.125                   | 0.437    | 0.487    | 0.318    | 0.394    | 0.225     | 0.2820   | 0.2920   | 2.60     | 2.80     |
| 2.5                   | 0.45                    | 3.375                    | 5.750                      | 8.125                    | 10.500                     | 12.750                   | 0.437    | 0.487    | 0.318    | 0.394    | 0.225     | 0.2820   | 0.2920   | 3.05     | 3.65     |
| 3                     | 0.5                     | 3.750                    | 6.375                      | 8.875                    | 11.375                     | 13.875                   | 0.482    | 0.541    | 0.362    | 0.438    | 0.250     | 0.3145   | 0.3250   | 3.60     | 4.30     |
| 3.5                   | 0.6                     | 3.750                    | 6.375                      | 8.750                    | 11.375                     | 13.750                   | 0.586    | 0.650    | 0.449    | 0.525    | 0.300     | 0.3795   | 0.3900   | 4.25     | 4.90     |
| 4                     | 0.7                     | 3.625                    | 6.125                      | 8.625                    | 11.125                     | 13.625                   | 0.683    | 0.758    | 0.510    | 0.612    | 0.350     | 0.4445   | 0.4550   | 4.90     | 5.55     |
| 5                     | 0.8                     | 4.125                    | 6.875                      | 9.625                    | 12.375                     | 15.125                   | 0.775    | 0.866    | 0.598    | 0.700    | 0.400     | 0.5085   | 0.5200   | 6.10     | 6.75     |
| 6                     | 1                       | 4.000                    | 6.750                      | 9.500                    | 12.125                     | 14.875                   | 0.975    | 1.083    | 0.748    | 0.875    | 0.500     | 0.6370   | 0.6500   | 7.25     | 7.90     |
| 7                     | 1                       | 4.875                    | 8.000                      | 11.125                   | 14.125                     | 17.250                   | 0.975    | 1.083    | 0.748    | 0.875    | 0.500     | 0.6370   | 0.6500   | 8.40     | 9.15     |
| 8                     | 1                       | 5.875                    | 9.375                      | 13.000                   | 16.500                     | 20.125                   | 0.975    | 1.083    | 0.748    | 0.875    | 0.500     | 0.6370   | 0.6500   | 9.20     | 9.65     |
| 8                     | 1.25                    | 4.500                    | 7.375                      | 10.250                   | 13.250                     | 16.125                   | 1.251    | 1.353    | 0.967    | 1.094    | 0.625     | 0.7990   | 0.8120   | 9.50     | 9.90     |
| 10                    | 1                       | 7.625                    | 12.000                     | 16.500                   | 21.000                     | 25.500                   | 0.975    | 1.083    | 0.748    | 0.875    | 0.500     | 0.6370   | 0.6500   | 11.10    | 11.55    |
| 10                    | 1.25                    | 5.875                    | 9.500                      | 13.125                   | 16.750                     | 20.375                   | 1.251    | 1.353    | 0.967    | 1.094    | 0.625     | 0.7990   | 0.8120   | 11.50    | 11.95    |
| 10                    | 1.5                     | 4.875                    | 8.000                      | 11.125                   | 14.250                     | 17.375                   | 1.522    | 1.624    | 1.160    | 1.312    | 0.750     | 0.9615   | 0.9740   | 11.80    | 12.25    |
| 12                    | 1.25                    | 7.250                    | 11.625                     | 15.875                   | 20.250                     | 24.500                   | 1.251    | 1.353    | 0.967    | 1.094    | 0.625     | 0.7990   | 0.8120   | 13.50    | 14.00    |
| 12                    | 1.5                     | 6.000                    | 9.625                      | 13.375                   | 17.000                     | 20.750                   | 1.522    | 1.624    | 1.160    | 1.312    | 0.750     | 0.9615   | 0.9740   | 13.80    | 14.30    |
| 12                    | 1.75                    | 5.000                    | 8.250                      | 11.500                   | 14.625                     | 17.875                   | 1.792    | 1.894    | 1.379    | 1.531    | 0.875     | 1.1240   | 1.1370   | 14.10    | 14.60    |
| 14                    | 1.5                     | 7.125                    | 11.375                     | 15.625                   | 20.000                     | 24.250                   | 1.522    | 1.624    | 1.160    | 1.312    | 0.750     | 0.9615   | 0.9740   | 15.80    | 16.30    |
| 14                    | 2                       | 5.125                    | 8.500                      | 11.750                   | 15.000                     | 18.375                   | 2.063    | 2.165    | 1.598    | 1.750    | 1.000     | 1.2865   | 1.2990   | 16.40    | 16.90    |
| 16                    | 1.5                     | 8.250                    | 13.125                     | 18.000                   | 22.750                     | 27.625                   | 1.522    | 1.624    | 1.160    | 1.312    | 0.750     | 0.9615   | 0.9740   | 17.80    | 18.30    |
| 16                    | 2                       | 6.125                    | 9.750                      | 13.500                   | 17.250                     | 21.000                   | 1.963    | 2.165    | 1.598    | 1.750    | 1.000     | 1.2865   | 1.2990   | 18.40    | 18.90    |
| 18                    | 1.5                     | 9.500                    | 15.000                     | 20.375                   | 25.875                     | 31.375                   | 1.522    | 1.624    | 1.160    | 1.312    | 0.750     | 0.9615   | 0.9740   | 19.80    | 20.35    |
| 18                    | 2                       | 7.000                    | 11.125                     | 15.375                   | 19.500                     | 23.625                   | 2.063    | 2.165    | 1.598    | 1.750    | 1.000     | 1.2865   | 1.2990   | 20.40    | 20.95    |
| 18                    | 2.5                     | 5.375                    | 8.875                      | 12.250                   | 15.625                     | 19.000                   | 2.604    | 2.706    | 1.998    | 2.188    | 1.250     | 1.6110   | 1.6240   | 20.90    | 21.45    |
| 20                    | 1.5                     | 10.750                   | 16.875                     | 22.875                   | 28.875                     | 35.000                   | 1.522    | 1.624    | 1.160    | 1.312    | 0.750     | 0.9615   | 0.9740   | 21.80    | 22.50    |
| 20                    | 2                       | 7.875                    | 12.500                     | 17.250                   | 21.875                     | 26.500                   | 2.063    | 2.165    | 1.598    | 1.750    | 1.000     | 1.2865   | 1.2990   | 23.10    | 23.60    |
| 20                    | 2.5                     | 6.125                    | 9.875                      | 13.625                   | 17.375                     | 21.125                   | 2.604    | 2.706    | 1.998    | 2.188    | 1.250     | 1.6110   | 1.6240   | 22.90    | 23.60    |
| 22                    | 1.5                     | 11.875                   | 18.500                     | 25.125                   | 31.625                     | 38.250                   | 1.522    | 1.624    | 1.160    | 1.312    | 0.750     | 0.9615   | 0.9740   | 24.10    | 24.80    |
| 22                    | 2                       | 8.750                    | 13.750                     | 18.875                   | 23.875                     | 29.000                   | 2.063    | 2.165    | 1.598    | 1.750    | 1.000     | 1.2865   | 1.2990   | 24.40    | 25.10    |
| 22                    | 2.5                     | 6.750                    | 10.875                     | 14.875                   | 19.000                     | 23.125                   | 2.604    | 2.706    | 1.998    | 2.188    | 1.250     | 1.6110   | 1.6240   | 24.90    | 25.60    |
| 24                    | 2                       | 9.500                    | 15.000                     | 20.375                   | 25.875                     | 31.250                   | 2.063    | 2.165    | 1.598    | 1.750    | 1.000     | 1.2865   | 1.2990   | 26.40    | 27.10    |
| 24                    | 3                       | 6.125                    | 10.000                     | 13.750                   | 17.500                     | 21.375                   | 3.146    | 3.248    | 2.396    | 2.625    | 1.500     | 1.9360   | 1.9485   | 27.50    | 28.20    |
| 27                    | 2                       | 10.875                   | 17.000                     | 23.250                   | 29.375                     | 35.500                   | 2.063    | 2.165    | 1.598    | 1.750    | 1.000     | 1.2865   | 1.2990   | 29.40    | 30.10    |
| 27                    | 3                       | 7.000                    | 11.250                     | 15.500                   | 19.750                     | 24.000                   | 3.146    | 3.248    | 2.396    | 2.625    | 1.500     | 1.9360   | 1.9485   | 30.50    | 31.20    |
| 30                    | 2                       | 12.250                   | 19.125                     | 25.875                   | 32.750                     | 39.500                   | 2.063    | 2.165    | 1.598    | 1.750    | 1.000     | 1.2865   | 1.2990   | 32.50    | 33.20    |
| 30                    | 3                       | 7.875                    | 12.500                     | 17.125                   | 21.875                     | 26.500                   | 3.146    | 3.248    | 2.396    | 2.625    | 1.500     | 1.9360   | 1.9485   | 33.50    | 34.20    |
| 33                    | 2                       | 13.625                   | 21.125                     | 28.625                   | 36.000                     | 43.500                   | 2.063    | 2.165    | 1.598    | 1.750    | 1.000     | 1.2865   | 1.2990   | 35.80    | 36.50    |
| 33                    | 3                       | 8.750                    | 13.875                     | 19.000                   | 24.125                     | 29.250                   | 3.146    | 3.248    | 2.396    | 2.625    | 1.500     | 1.9360   | 1.9485   | 36.50    | 37.20    |
| 36                    | 2                       | 15.000                   | 23.250                     | 31.375                   | 39.500                     | 47.750                   | 2.063    | 2.165    | 1.598    | 1.750    | 1.000     | 1.2865   | 1.2990   | 39.00    | 39.70    |
| 36                    | 3                       | 9.750                    | 15.250                     | 20.875                   | 26.500                     | 32.000                   | 3.146    | 3.248    | 2.396    | 2.625    | 1.500     | 1.9360   | 1.9485   | 39.50    | 40.20    |
| 39                    | 2                       | 16.375                   | 25.250                     | 34.125                   | 43.000                     | 51.875                   | 2.063    | 2.165    | 1.598    | 1.750    | 1.000     | 1.2865   | 1.2990   | 42.30    | 43.00    |
| 39                    | 3                       | 10.750                   | 16.750                     | 22.750                   | 28.875                     | 34.875                   | 3.146    | 3.248    | 2.396    | 2.625    | 1.500     | 1.9360   | 1.9485   | 42.50    | 43.20    |

TABLE 1 (CONTINUED)

| THREAD<br>SIZE<br>DIA | THREAD<br>SIZE<br>PITCH | P<br>MIN | P<br>MAX | R<br>MIN | S<br>MIN | U<br>MAX | U<br>MIN | V<br>MAX | APPROX-<br>MATE<br>MASS,<br>KILO-<br>GRAMS/100<br>1 DIA | APPROX-<br>MATE<br>MASS,<br>KILO-<br>GRAMS/100<br>1.5 DIA | APPROX-<br>MATE<br>MASS,<br>KILO-<br>GRAMS/100<br>2 DIA | APPROX-<br>MATE<br>MASS,<br>KILO-<br>GRAMS/100<br>2.5 DIA | APPROX-<br>MATE<br>MASS,<br>KILO-<br>GRAMS/100<br>3 DIA |
|-----------------------|-------------------------|----------|----------|----------|----------|----------|----------|----------|---------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------|
|                       |                         |          |          |          |          |          |          |          |                                                         |                                                           |                                                         |                                                           |                                                         |
| 2                     | 0.4                     | 1.30     | 1.90     | 0.072    | 0.125    | 0.86     | 0.37     | 0.22     | 0.002                                                   | 0.003                                                     | 0.005                                                   | 0.007                                                     | 0.008                                                   |
| 2.2                   | 0.45                    | 1.40     | 2.00     | 0.081    | 0.141    | 0.91     | 0.62     | 0.25     | 0.002                                                   | 0.004                                                     | 0.006                                                   | 0.008                                                     | 0.009                                                   |
| 2.5                   | 0.45                    | 1.60     | 2.25     | 0.081    | 0.141    | 1.22     | 0.81     | 0.30     | 0.003                                                   | 0.006                                                     | 0.008                                                   | 0.010                                                     | 0.012                                                   |
| 3                     | 0.5                     | 1.95     | 2.80     | 0.090    | 0.156    | 1.33     | 0.86     | 0.30     | 0.006                                                   | 0.009                                                     | 0.012                                                   | 0.016                                                     | 0.019                                                   |
| 3.5                   | 0.6                     | 2.20     | 3.00     | 0.108    | 0.188    | 1.47     | 0.92     | 0.30     | 0.009                                                   | 0.014                                                     | 0.020                                                   | 0.026                                                     | 0.031                                                   |
| 4                     | 0.7                     | 2.50     | 3.55     | 0.126    | 0.219    | 1.67     | 1.02     | 0.45     | 0.014                                                   | 0.022                                                     | 0.031                                                   | 0.039                                                     | 0.048                                                   |
| 5                     | 0.8                     | 3.15     | 4.55     | 0.144    | 0.250    | 2.09     | 1.41     | 0.60     | 0.025                                                   | 0.040                                                     | 0.055                                                   | 0.070                                                     | 0.085                                                   |
| 6                     | 1                       | 3.70     | 4.85     | 0.180    | 0.312    | 2.55     | 1.65     | 0.60     | 0.044                                                   | 0.072                                                     | 0.099                                                   | 0.126                                                     | 0.153                                                   |
| 7                     | 1                       | 4.30     | 5.50     | 0.180    | 0.312    | 3.10     | 2.09     | 0.75     | 0.062                                                   | 0.099                                                     | 0.136                                                   | 0.173                                                     | 0.210                                                   |
| 8                     | 1                       | 4.75     | 6.50     | 0.180    | 0.312    | 3.88     | 2.27     | 0.75     | 0.083                                                   | 0.132                                                     | 0.180                                                   | 0.228                                                     | 0.277                                                   |
| 8                     | 1.25                    | 4.75     | 6.50     | 0.226    | 0.391    | 3.60     | 2.02     | 0.75     | 0.100                                                   | 0.160                                                     | 0.221                                                   | 0.281                                                     | 0.342                                                   |
| 10                    | 1                       | 5.50     | 8.00     | 0.180    | 0.312    | 4.90     | 2.95     | 0.75     | 0.136                                                   | 0.212                                                     | 0.288                                                   | 0.362                                                     | 0.439                                                   |
| 10                    | 1.25                    | 5.50     | 8.00     | 0.226    | 0.391    | 4.77     | 2.86     | 0.75     | 0.162                                                   | 0.257                                                     | 0.352                                                   | 0.446                                                     | 0.541                                                   |
| 10                    | 1.5                     | 5.50     | 8.00     | 0.271    | 0.469    | 4.54     | 2.56     | 0.75     | 0.188                                                   | 0.302                                                     | 0.416                                                   | 0.530                                                     | 0.643                                                   |
| 12                    | 1.25                    | 6.70     | 9.75     | 0.226    | 0.391    | 5.84     | 3.77     | 1.00     | 0.240                                                   | 0.376                                                     | 0.512                                                   | 0.649                                                     | 0.785                                                   |
| 12                    | 1.5                     | 6.70     | 9.75     | 0.271    | 0.469    | 5.58     | 3.50     | 1.20     | 0.281                                                   | 0.444                                                     | 0.608                                                   | 0.772                                                     | 0.935                                                   |
| 12                    | 1.75                    | 6.70     | 9.75     | 0.316    | 0.547    | 5.36     | 3.23     | 1.40     | 0.318                                                   | 0.509                                                     | 0.700                                                   | 0.890                                                     | 1.081                                                   |
| 14                    | 1.5                     | 7.20     | 11.25    | 0.271    | 0.469    | 6.76     | 4.34     | 1.15     | 0.391                                                   | 0.614                                                     | 0.836                                                   | 1.059                                                     | 1.282                                                   |
| 14                    | 2                       | 7.20     | 11.25    | 0.361    | 0.625    | 6.26     | 3.79     | 1.40     | 0.497                                                   | 0.794                                                     | 1.091                                                   | 1.388                                                     | 1.685                                                   |
| 16                    | 1.5                     | 8.30     | 12.75    | 0.271    | 0.469    | 7.78     | 5.32     | 1.45     | 0.519                                                   | 0.810                                                     | 1.101                                                   | 1.392                                                     | 1.682                                                   |
| 16                    | 2                       | 8.30     | 12.75    | 0.361    | 0.625    | 7.30     | 4.76     | 2.70     | 0.665                                                   | 1.053                                                     | 1.441                                                   | 1.828                                                     | 2.216                                                   |
| 18                    | 1.5                     | 9.30     | 14.00    | 0.271    | 0.469    | 8.83     | 6.26     | 1.75     | 0.665                                                   | 1.033                                                     | 1.401                                                   | 1.769                                                     | 2.137                                                   |
| 18                    | 2                       | 9.30     | 14.00    | 0.361    | 0.625    | 8.30     | 5.74     | 2.70     | 0.856                                                   | 1.347                                                     | 1.838                                                   | 2.328                                                     | 2.819                                                   |
| 18                    | 2.5                     | 9.30     | 14.00    | 0.451    | 0.781    | 7.79     | 5.20     | 2.85     | 1.031                                                   | 1.645                                                     | 2.258                                                   | 2.872                                                     | 3.486                                                   |
| 20                    | 1.5                     | 10.40    | 14.50    | 0.271    | 0.469    | 9.77     | 7.19     | 2.85     | 0.830                                                   | 1.284                                                     | 1.739                                                   | 2.193                                                     | 2.647                                                   |
| 20                    | 2                       | 10.40    | 14.50    | 0.361    | 0.625    | 9.40     | 6.65     | 2.85     | 1.072                                                   | 1.678                                                     | 2.284                                                   | 2.890                                                     | 3.495                                                   |
| 20                    | 2.5                     | 10.40    | 14.50    | 0.451    | 0.781    | 8.89     | 6.11     | 2.85     | 1.297                                                   | 2.054                                                     | 2.812                                                   | 3.569                                                     | 4.326                                                   |
| 22                    | 1.5                     | 11.40    | 16.00    | 0.271    | 0.469    | 11.10    | 8.01     | 2.85     | 1.013                                                   | 1.563                                                     | 2.113                                                   | 2.662                                                     | 3.212                                                   |
| 22                    | 2                       | 11.40    | 16.00    | 0.361    | 0.625    | 10.45    | 7.61     | 2.85     | 1.313                                                   | 2.046                                                     | 2.779                                                   | 3.512                                                     | 4.245                                                   |
| 22                    | 2.5                     | 11.40    | 16.00    | 0.451    | 0.781    | 9.94     | 7.07     | 2.85     | 1.593                                                   | 2.510                                                     | 3.426                                                   | 4.342                                                     | 5.259                                                   |
| 24                    | 2                       | 12.50    | 16.50    | 0.361    | 0.625    | 11.46    | 8.60     | 2.85     | 1.576                                                   | 2.448                                                     | 3.321                                                   | 4.193                                                     | 5.065                                                   |
| 24                    | 3                       | 12.50    | 16.50    | 0.541    | 0.938    | 10.45    | 7.51     | 2.85     | 2.239                                                   | 3.548                                                     | 4.857                                                   | 6.166                                                     | 7.474                                                   |
| 27                    | 2                       | 14.00    | 17.50    | 0.361    | 0.625    | 13.14    | 9.93     | 2.85     | 2.017                                                   | 3.121                                                     | 4.225                                                   | 5.329                                                     | 6.433                                                   |
| 27                    | 3                       | 14.00    | 17.50    | 0.541    | 0.938    | 12.13    | 8.85     | 2.85     | 2.884                                                   | 4.540                                                     | 6.196                                                   | 7.853                                                     | 9.509                                                   |
| 30                    | 2                       | 15.00    | 19.00    | 0.361    | 0.625    | 14.81    | 11.26    | 2.85     | 2.513                                                   | 3.876                                                     | 5.238                                                   | 6.601                                                     | 7.964                                                   |
| 30                    | 3                       | 15.00    | 19.00    | 0.541    | 0.938    | 13.65    | 10.32    | 2.85     | 3.611                                                   | 5.656                                                     | 7.700                                                   | 9.745                                                     | 11.782                                                  |
| 33                    | 2                       | 17.00    | 21.00    | 0.361    | 0.625    | 16.35    | 12.74    | 2.85     | 3.063                                                   | 4.712                                                     | 6.361                                                   | 8.010                                                     | 9.659                                                   |
| 33                    | 3                       | 17.00    | 21.00    | 0.541    | 0.938    | 15.19    | 11.78    | 2.85     | 4.420                                                   | 6.894                                                     | 9.367                                                   | 11.841                                                    | 14.315                                                  |
| 36                    | 2                       | 18.50    | 22.50    | 0.361    | 0.625    | 17.77    | 14.29    | 2.85     | 3.671                                                   | 5.633                                                     | 7.595                                                   | 9.557                                                     | 11.519                                                  |
| 36                    | 3                       | 18.50    | 22.50    | 0.541    | 0.938    | 16.73    | 13.23    | 2.85     | 5.316                                                   | 8.260                                                     | 11.204                                                  | 14.147                                                    | 17.091                                                  |
| 39                    | 2                       | 20.00    | 24.00    | 0.361    | 0.625    | 19.28    | 15.77    | 2.85     | 4.331                                                   | 6.634                                                     | 8.936                                                   | 11.239                                                    | 13.542                                                  |
| 39                    | 3                       | 20.00    | 24.00    | 0.541    | 0.938    | 18.28    | 14.68    | 2.85     | 6.290                                                   | 9.745                                                     | 13.200                                                  | 16.654                                                    | 20.109                                                  |