

APPENDIX IV

GRAPHS AND TABLES

TABLE 11
UNIT CONVERSION TABLE

| ANGSTROM UNITS(A) | MICRONS (μ) | MILLIMETERS (mm) | INCHES (in) | INCHES BY POWERS | MILS | MICROINCHES |
|----------------------|----------------------|-----------------------|----------------|------------------------|-------------|-------------|
| (1) | 0.0001 | 0.0000001 | | 3.937×10^{-9} | 0.000003937 | 0.003937 |
| 10 | 0.001 | 0.000001 | | 3.937×10^{-8} | 0.00003937 | 0.03937 |
| 100 | 0.01 | 0.00001 | | 3.937×10^{-7} | 0.0003937 | 0.3937 |
| 1000 | 0.1 | 0.0001 | | 3.937×10^{-6} | 0.003937 | 3.937 |
| 10,000 | (1.0) | 0.001 | | 3.937×10^{-5} | 0.03937 | 39.37 |
| 100,000 | 10.0 | 0.01 | | 3.937×10^{-4} | 0.3937 | 393.7 |
| 1,000,000 | 100.0 | 0.1 | | 3.937×10^{-3} | 3.937 | |
| 10,000,000 | 1000.0 | (1.0) | 0.03937 | 3.937×10^{-2} | 39.37 | |
| 2.54×10^8 | 2.54×10^4 | 25.4 | | (1) | 1000.0 | 1,000,000 |
| 2.54×10^7 | 2540.0 | 2.54 | | 1.0×10^{-1} | 100.0 | 100,000 |
| 2.54×10^6 | 254.0 | 0.254 | | 1.0×10^{-2} | 10.0 | 10,000 |
| 2.54×10^5 | 25.4 | 0.0254 | | 1.0×10^{-3} | (1.0) | 1,000 |
| 2.54×10^4 | 2.54 | 0.00254 | | 1.0×10^{-4} | 0.1 | 100 |
| 2540.0 | 0.254 | 2.54×10^{-4} | | 1.0×10^{-5} | 0.01 | 10 |
| 254.0 | 0.0254 | 2.54×10^{-5} | | 1.0×10^{-6} | 0.001 | (1) |
| 25.4 | 0.00254 | 2.54×10^{-6} | | 1.0×10^{-7} | 0.0001 | 0.1 |

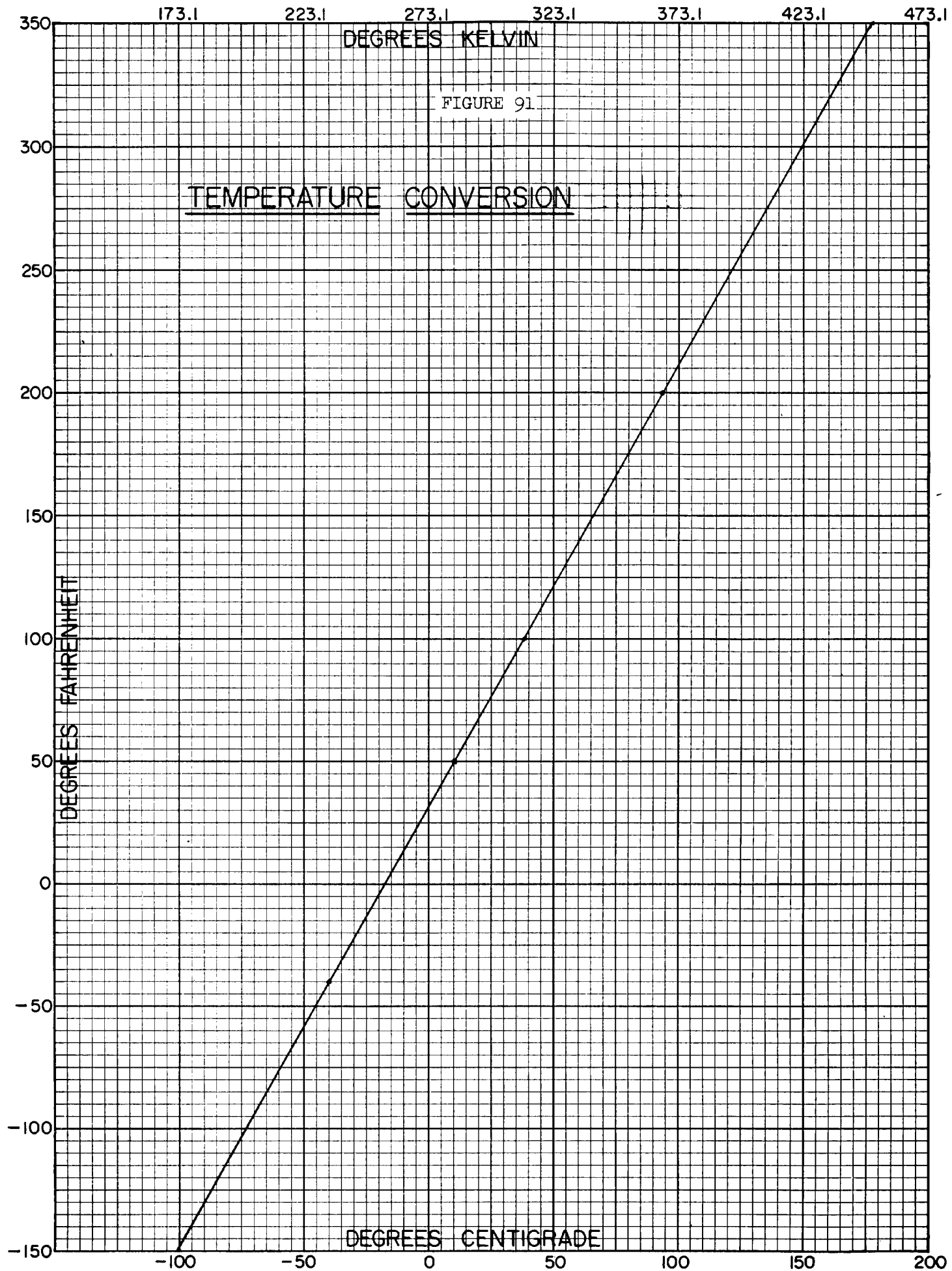


TABLE 12 (1)

UNITS OF CURVATURE

CONVERSION TABLE

| <u>Diopters</u> | <u>Reciprocal Meters</u> | <u>Radius of Curvature in millimeters</u> | <u>Radius of Curvature in inches</u> |
|-----------------|------------------------------|---|--|
| .125 | 0.24 | 4240.00 | 166.93 |
| .250 | 0.47 | 2120.00 | 83.46 |
| .375 | 0.71 | 1413.33 | 55.64 |
| .500 | 0.94 | 1060.00 | 41.73 |
| .625 | 1.18 | 848.00 | 33.38 |
| .750 | 1.42 | 706.67 | 27.82 |
| .875 | 1.65 | 605.71 | 23.86 |
| 1.000 | 1.89 | 530.00 | 20.87 |
| 1.125 | 2.12 | 471.11 | 18.55 |
| 1.250 | 2.36 | 424.00 | 16.69 |
| 1.375 | 2.59 | 385.45 | 15.18 |
| 1.500 | 2.83 | 353.33 | 13.91 |
| 1.625 | 3.07 | 326.15 | 12.84 |
| 1.750 | 3.30 | 302.86 | 11.92 |
| 1.875 | 3.54 | 282.67 | 11.13 |
| 2.000 | 3.77 | 265.00 | 10.433 |
| 2.125 | 4.01 | 249.41 | 9.82 |
| 2.250 | 4.25 | 235.56 | 9.27 |
| 2.375 | 4.48 | 223.16 | 8.79 |
| 2.500 | 4.72 | 212.00 | 8.35 |
| 2.625 | 4.95 | 201.90 | 7.95 |
| 2.750 | 5.19 | 192.73 | 7.59 |
| 2.875 | 5.42 | 184.35 | 7.26 |
| 3.000 | 5.66 | 176.67 | 6.96 |
| 3.125 | 5.90 | 169.60 | 6.68 |
| 3.250 | 6.13 | 163.08 | 6.42 |
| 3.375 | 6.37 | 157.04 | 6.18 |
| 3.500 | 6.60 | 151.43 | 5.96 |
| 3.625 | 6.84 | 146.21 | 5.76 |
| 3.750 | 7.08 | 141.33 | 5.56 |
| 3.875 | 7.31 | 136.77 | 5.38 |
| 4.000 | 7.55 | 132.50 | 5.22 |
| 4.125 | 7.78 | 128.48 | 5.06 |
| 4.250 | 8.02 | 124.71 | 4.91 |
| 4.375 | 8.25 | 121.14 | 4.77 |
| 4.500 | 8.49 | 117.78 | 4.64 |
| 4.625 | 8.73 | 114.59 | 4.51 |
| 4.750 | 8.96 | 111.58 | 4.39 |
| 4.875 | 9.20 | 108.72 | 4.28 |
| 5.000 | 9.43 | 106.00 | 4.17 |
| 5.125 | 9.67 | 103.41 | 4.07 |
| 5.250 | 9.91 | 100.95 | 3.97 |
| 5.375 | 10.14 | 98.60 | 3.88 |
| 5.500 | 10.38 | 96.36 | 3.79 |

TABLE 12 (2)

UNITS OF CURVATURE

CONVERSION TABLE

| Diopeters | Reciprocal Meters | Radius of Curvature in millimeters | Radius of Curvature in inches |
|-----------|----------------------|---------------------------------------|----------------------------------|
| 5.625 | 10.61 | 94.22 | 3.71 |
| 5.750 | 10.85 | 92.17 | 3.63 |
| 5.875 | 11.08 | 90.21 | 3.55 |
| 6.000 | 11.32 | 88.33 | 3.48 |
| 6.125 | 11.56 | 86.53 | 3.41 |
| 6.250 | 11.79 | 84.80 | 3.34 |
| 6.375 | 12.03 | 83.14 | 3.27 |
| 6.500 | 12.26 | 81.54 | 3.21 |
| 6.625 | 12.50 | 80.00 | 3.15 |
| 6.750 | 12.73 | 78.52 | 3.09 |
| 6.875 | 12.97 | 77.09 | 3.04 |
| 7.000 | 13.20 | 75.71 | 2.98 |
| 7.125 | 13.44 | 74.39 | 2.93 |
| 7.250 | 13.68 | 73.10 | 2.88 |
| 7.375 | 12.93 | 71.86 | 2.83 |
| 7.500 | 14.15 | 70.67 | 2.78 |
| 7.625 | 14.38 | 69.51 | 2.74 |
| 7.750 | 14.62 | 68.39 | 2.69 |
| 7.875 | 14.85 | 67.30 | 2.65 |
| 8.00 | 15.09 | 66.25 | 2.60 |
| 8.250 | 15.57 | 64.24 | 2.53 |
| 8.500 | 16.04 | 62.35 | 2.45 |
| 8.750 | 16.51 | 60.57 | 2.38 |
| 9.000 | 17.00 | 58.89 | 2.32 |
| 9.250 | 17.45 | 57.30 | 2.26 |
| 9.500 | 17.92 | 55.79 | 2.20 |
| 9.570 | 18.40 | 54.36 | 2.18 |
| 10. | 18.87 | 53.00 | 2.09 |
| 10.5 | 19.81 | 50.48 | 1.99 |
| 11 | 20.75 | 48.18 | 1.90 |
| 11.5 | 21.70 | 46.09 | 1.81 |
| 12 | 22.64 | 44.17 | 1.74 |
| 12.5 | 23.58 | 42.40 | 1.67 |
| 13 | 24.52 | 40.77 | 1.60 |
| 13.5 | 25.47 | 39.26 | 1.54 |
| 14 | 26.42 | 37.86 | 1.49 |
| 14.5 | 27.36 | 36.55 | 1.44 |
| 15 | 28.30 | 35.33 | 1.39 |
| 16 | 30.19 | 33.12 | 1.30 |
| 17 | 32.08 | 31.18 | 1.23 |
| 18 | 33.96 | 29.44 | 1.16 |
| 19 | 35.85 | 27.89 | 1.10 |
| 20 | 37.73 | 26.50 | 1.04 |

TABLE 12 (3)

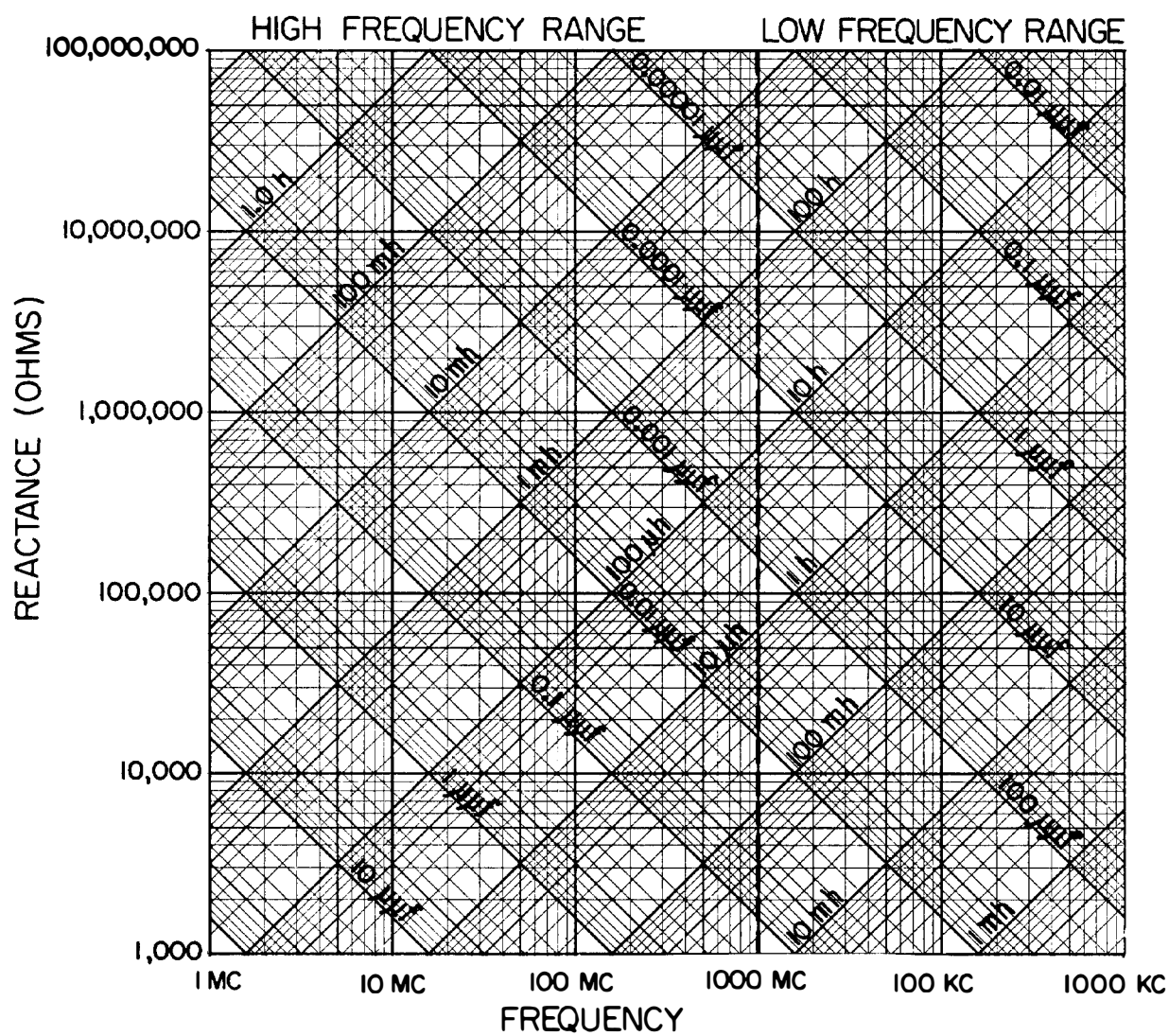
UNITS OF CURVATURE

CONVERSION TABLE

| <u>Diopters</u> | <u>Reciprocal Meters</u> | <u>Radius of Curvature in millimeters</u> | <u>Radius of Curvature in inches</u> |
|-----------------|------------------------------|---|--|
| 21 | 39.62 | 25.24 | 0.994 |
| 22 | 41.51 | 24.09 | 0.948 |
| 23 | 43.40 | 23.04 | 0.907 |
| 24 | 45.28 | 22.08 | 0.869 |
| 25 | 47.17 | 21.20 | 0.835 |
| 26 | 49.06 | 20.38 | 0.802 |
| 27 | 50.94 | 19.63 | 0.773 |
| 28 | 52.83 | 18.93 | 0.745 |
| 29 | 54.72 | 18.28 | 0.720 |
| 30 | 56.00 | 17.67 | 0.695 |
| 31 | 58.49 | 17.10 | 0.673 |
| 32 | 60.38 | 16.56 | 0.652 |
| 33 | 62.26 | 16.06 | 0.632 |
| 34 | 64.15 | 15.59 | 0.614 |
| 35 | 66.04 | 15.14 | 0.596 |
| 36 | 67.92 | 14.72 | 0.580 |
| 37 | 69.81 | 14.32 | 0.564 |
| 38 | 71.70 | 13.95 | 0.549 |
| 39 | 73.58 | 13.59 | 0.535 |
| 40 | 75.47 | 13.25 | 0.522 |

FIGURE 92

REACTANCE CHART

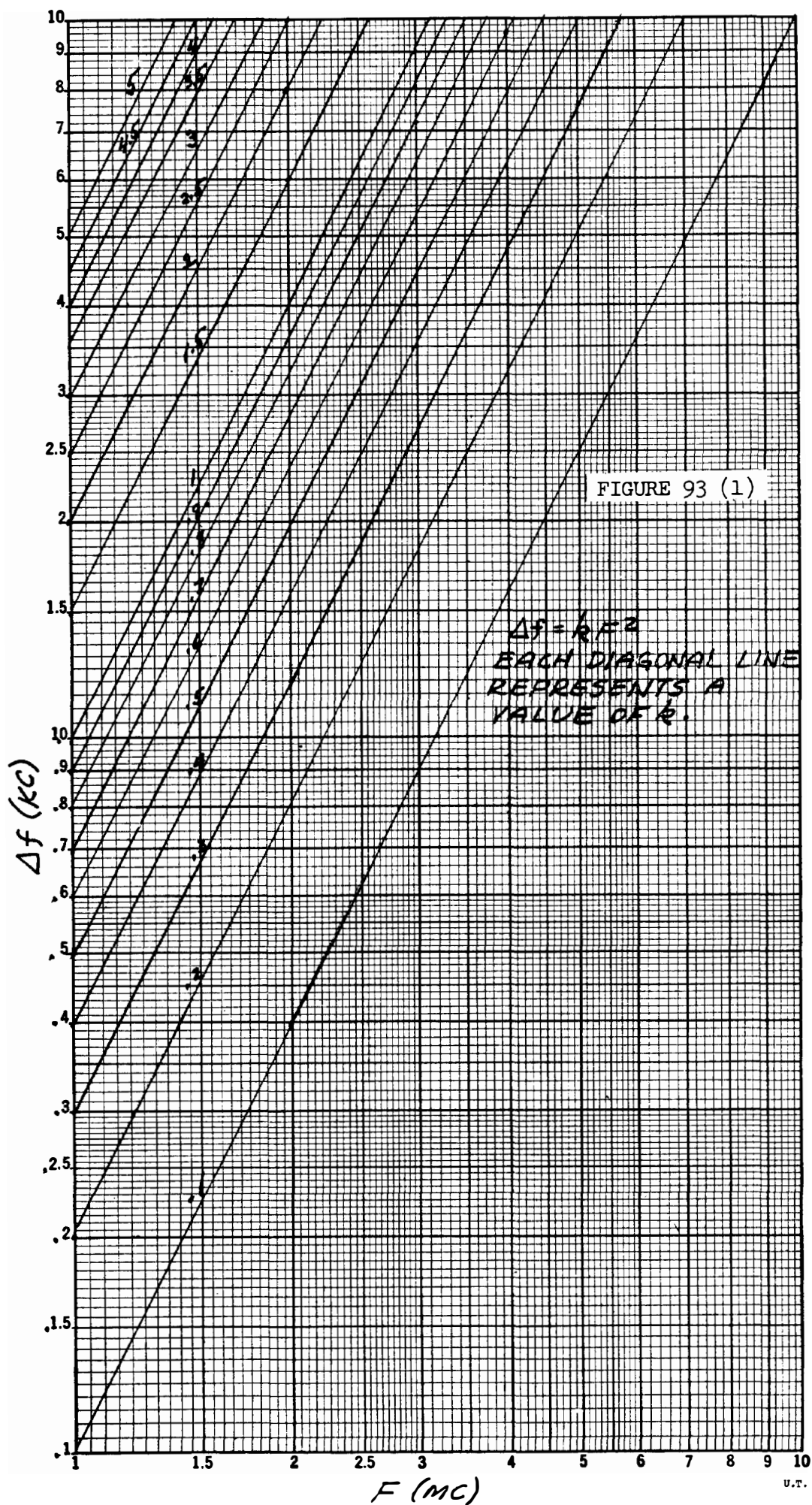


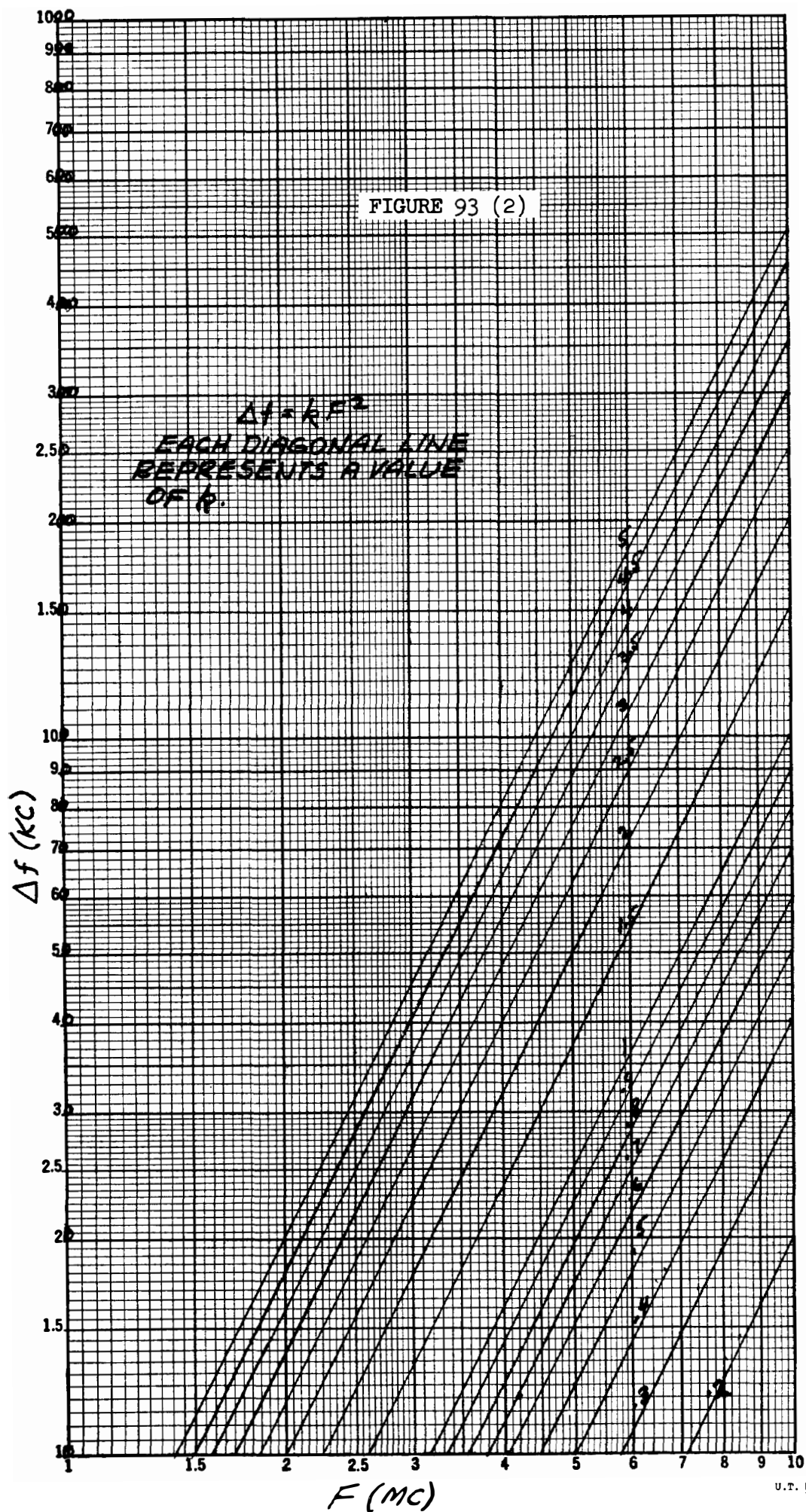
It is conventional to specify some final lapping and polishing processes, and particularly etching and plating processes, in terms of the frequency change or difference in F^2 units, F being in megacycles and the frequency change or difference being in kilocycles. Thus $2F^2$ means 200 kc at 10 mc, 800 kc at 20 mc, etc. The letter k in the table and graph means "constant for some particular process," and could as well be written "n" for number. Thus, if the process specification is to polish to $+0.2 F^2$, it means that the out-of-polish frequency of a 20 mc (nominal) unit should be 20.08 mc.

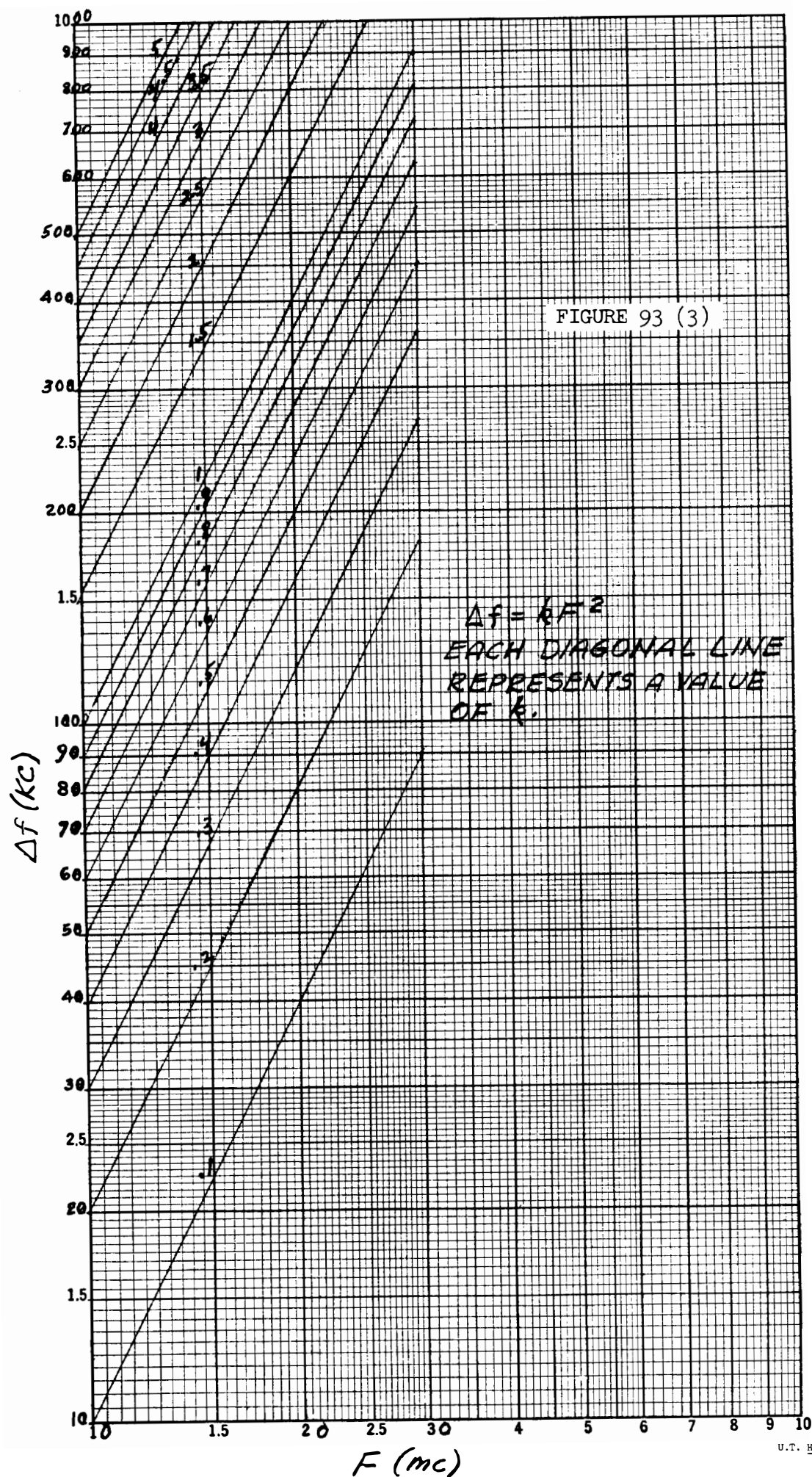
$$kF^2 = \Delta f \text{ (kc)}$$

| k | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 |
|-------|------|-------|-------|-------|------|-------|-------|-------|-------|
| F(mc) | | | | | | | | | |
| 1 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 |
| 2 | .4 | .8 | 1.2 | 1.6 | 2.0 | 2.4 | 2.8 | 3.2 | 3.6 |
| 3 | .9 | 1.8 | 2.7 | 3.6 | 4.5 | 5.4 | 6.3 | 7.2 | 8.1 |
| 4 | 1.6 | 3.2 | 4.8 | 6.4 | 8 | 9.6 | 11.2 | 12.8 | 14.4 |
| 5 | 2.5 | 5.0 | 7.5 | 10.0 | 12.5 | 15 | 17.5 | 20 | 22.5 |
| 6 | 3.6 | 7.2 | 10.8 | 14.4 | 18 | 21.6 | 25.2 | 28.8 | 32.4 |
| 7 | 4.9 | 9.8 | 14.7 | 19.6 | 24.5 | 29.4 | 34.3 | 39.2 | 44.1 |
| 8 | 6.4 | 12.8 | 19.2 | 25.6 | 32 | 38.4 | 44.8 | 51.2 | 57.6 |
| 9 | 8.1 | 16.2 | 24.3 | 32.4 | 40.5 | 48.6 | 56.7 | 64.8 | 72.9 |
| 10 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 |
| 12 | 14.4 | 28.8 | 43.2 | 57.6 | 72 | 86.4 | 100.4 | 115.2 | 129.6 |
| 14 | 19.6 | 39.2 | 58.8 | 78.4 | 98 | 117.6 | 137.2 | 156.8 | 176.4 |
| 16 | 25.6 | 51.2 | 76.8 | 102.4 | 128 | 153.6 | 179.2 | 204.8 | 230.4 |
| 18 | 32.4 | 64.8 | 97.2 | 129.6 | 162 | 194.4 | 226.8 | 259.2 | 291.6 |
| 20 | 40.0 | 80 | 120 | 160 | 200 | 240 | 280 | 320 | 360 |
| 22 | 48.4 | 96.8 | 145.2 | 193.6 | 242 | 290 | 338.8 | 387.2 | 435.6 |
| 24 | 57.6 | 115.2 | 172.8 | 230.4 | 288 | 345.6 | 403.2 | 460.8 | 518.4 |
| 26 | 67.6 | 135.2 | 202.8 | 270.4 | 338 | 405.6 | 473.2 | 520.8 | 608.4 |
| 28 | 78.4 | 156.8 | 235.2 | 313.6 | 392 | 470.4 | 548.8 | 627.2 | 705.6 |
| 30 | 90 | 180 | 270 | 360 | 450 | 540 | 630 | 720 | 810 |

| k | 1 | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 4.5 | 5 |
|-------|-----|------|------|-------|------|-------|-------|-------|------|
| F(mc) | | | | | | | | | |
| 1 | 1 | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 4.5 | 5 |
| 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
| 3 | 9 | 13.5 | 18 | 22.5 | 27 | 31.5 | 36 | 40.5 | 45 |
| 4 | 16 | 24 | 32 | 40 | 48 | 56 | 64 | 72 | 80 |
| 5 | 25 | 37.5 | 50 | 62.5 | 75 | 87.5 | 100 | 112.5 | 125 |
| 6 | 36 | 54 | 72 | 90 | 108 | 126 | 144 | 162 | 180 |
| 7 | 49 | 73.5 | 98 | 122.5 | 147 | 171.5 | 196.2 | 220.5 | 245 |
| 8 | 64 | 96 | 128 | 160 | 192 | 224 | 256 | 288 | 320 |
| 9 | 81 | 122 | 162 | 203 | 243 | 284 | 324 | 365 | 405 |
| 10 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |
| 12 | 144 | 216 | 288 | 360 | 432 | 504 | 576 | 648 | 720 |
| 14 | 196 | 294 | 392 | 490 | 588 | 686 | 784 | 882 | 980 |
| 16 | 256 | 384 | 512 | 640 | 768 | 896 | 1024 | 1152 | 1280 |
| 18 | 324 | 486 | 648 | 810 | 972 | 1134 | 1296 | 1458 | 1620 |
| 20 | 400 | 600 | 800 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 |
| 22 | 484 | 726 | 968 | 1210 | 1452 | 1694 | 1936 | 2178 | 2420 |
| 24 | 576 | 864 | 1152 | 1440 | 1728 | 2016 | 2304 | 2592 | 2880 |
| 26 | 676 | 1014 | 1352 | 1690 | 2028 | 2366 | 2704 | 3042 | 3380 |
| 28 | 784 | 1176 | 1568 | 1960 | 2352 | 2744 | 3136 | 3528 | 3920 |
| 30 | 900 | 1350 | 1800 | 2250 | 2700 | 3150 | 3600 | 4050 | 4500 |







THICKNESS OF CONTOURED PLATES

TABLE 14 (1)

BI-CONVEX, 8 DIOPTERS

| Frequency (kc) | Thickness $t \times 10^3$ (inches) | ft (kc inches) | Thickness to Radius of Curva- ture ratio $t/r \times 10^3$ | Plate Diameter to Thickness Ratio | | |
|-------------------|--|-------------------|--|-----------------------------------|-------------------------------|-------------------------------|
| | | | | d/t | | |
| | | | | <u>$d=0.500''$</u> | <u>$d=0.550''$</u> | <u>$d=0.600''$</u> |
| 1000 | 72.5 | 72.5 | 27.8 | 6.90 | 7.59 | 8.28 |
| 1020 | 71.1 | 72.5 | 27.2 | 7.03 | 7.74 | 8.44 |
| 1040 | 69.7 | 72.5 | 26.7 | 7.17 | 7.89 | 8.61 |
| 1060 | 68.3 | 72.4 | 26.2 | 7.32 | 8.05 | 8.78 |
| 1080 | 67.0 | 72.4 | 25.7 | 7.46 | 8.21 | 8.96 |
| | | | | | | |
| 1100 | 65.7 | 72.3 | 25.2 | 7.61 | 8.38 | 8.44 |
| 1120 | 64.5 | 72.2 | 24.7 | 7.75 | 8.53 | 9.30 |
| 1140 | 63.3 | 72.2 | 24.3 | 7.90 | 8.69 | 9.48 |
| 1160 | 62.1 | 72.0 | 23.8 | 8.05 | 8.86 | 9.66 |
| 1180 | 61.0 | 72.0 | 23.4 | 8.20 | 9.02 | 9.84 |
| | | | | | | |
| 1200 | 59.9 | 71.9 | 23.0 | 8.35 | 9.18 | 10.02 |
| 1225 | 58.7 | 71.9 | 22.5 | 8.52 | 9.37 | 10.22 |
| 1250 | 57.5 | 71.9 | 22.0 | 8.70 | 9.56 | 10.43 |
| 1275 | 56.3 | 71.8 | 21.6 | 8.88 | 9.77 | 10.66 |
| | | | | | | |
| 1300 | 55.2 | 71.8 | 21.2 | 9.06 | 9.96 | 10.87 |
| 1325 | 54.1 | 71.7 | 20.7 | 9.24 | 10.17 | 11.09 |
| 1350 | 53.0 | 71.6 | 20.3 | 9.43 | 10.38 | 11.32 |
| 1375 | 52.0 | 71.5 | 19.9 | 9.62 | 10.58 | 11.54 |
| | | | | | | |
| 1400 | 51.0 | 71.4 | 19.6 | 9.80 | 10.78 | 11.76 |
| 1425 | 50.0 | 71.2 | 19.2 | 10.00 | 11.00 | 12.00 |

TABLE 14 (2)

BI-CONVEX,

| (kc) | | (kc) | | d/t | | |
|------|------|------|------|----------|----------|----------|
| | | | | d=0.500" | d=0.550" | d=0.600" |
| 1000 | 73.4 | 73.4 | 35.2 | 6.81 | 7.49 | 8.17 |
| 1020 | 71.9 | 73.3 | 34.4 | 6.95 | 7.65 | 8.34 |
| 1040 | 70.4 | 73.2 | 33.7 | 7.10 | 7.81 | 8.52 |
| 1060 | 69.0 | 73.1 | 33.1 | 7.25 | 7.97 | 8.70 |
| 1080 | 67.6 | 73.0 | 32.4 | 7.40 | 8.14 | 8.88 |
| | | | | | | |
| 1100 | 66.3 | 72.9 | 31.8 | 7.54 | 8.30 | 9.05 |
| 1120 | 65.1 | 72.9 | 31.2 | 7.68 | 8.45 | 9.22 |
| 1140 | 63.9 | 72.8 | 30.6 | 7.82 | 8.61 | 9.39 |
| 1160 | 62.7 | 72.7 | 30.0 | 7.97 | 8.77 | 9.57 |
| 1180 | 61.6 | 72.7 | 29.5 | 8.12 | 8.93 | 9.74 |
| | | | | | | |
| 1200 | 60.6 | 72.7 | 29.0 | 8.25 | 9.08 | 9.90 |
| 1225 | 59.2 | 72.5 | 28.4 | 8.44 | 9.29 | 10.14 |
| 1250 | 58.0 | 72.5 | 27.8 | 8.62 | 9.48 | 10.34 |
| 1275 | 56.8 | 72.4 | 27.2 | 8.80 | 9.68 | 10.56 |
| | | | | | | |
| 1300 | 55.7 | 72.4 | 26.7 | 8.98 | 9.87 | 10.77 |
| 1325 | 54.6 | 72.3 | 26.2 | 9.16 | 10.07 | 10.99 |
| 1350 | 53.6 | 72.3 | 25.7 | 9.33 | 10.26 | 11.19 |
| 1375 | 52.5 | 72.2 | 25.2 | 9.52 | 10.48 | 11.43 |
| | | | | | | |
| 1400 | 51.5 | 72.1 | 24.7 | 9.71 | 10.68 | 11.65 |
| 1425 | 50.5 | 72.0 | 24.2 | 9.90 | 10.89 | 11.88 |

TABLE 14 (3)

BI-CONVEX, 12 DIOPTERS

| Frequency (kc) | $t \times 10^3$ (inches) | ft (kc inches) | $t/r \times 10^3$ | d/t | | |
|-------------------|-----------------------------|-------------------|-------------------|-------------|-------------|-------------|
| | | | | $d=0.500''$ | $d=0.550''$ | $d=0.600''$ |
| 800 | 94.0 | 75.2 | 54.0 | 5.32 | 5.85 | 6.38 |
| 805 | 93.3 | 75.1 | 53.6 | 5.36 | 5.89 | 6.43 |
| 810 | 92.7 | 75.1 | 53.3 | 5.39 | 5.93 | 6.47 |
| 815 | 92.1 | 75.1 | 53.0 | 5.43 | 5.97 | 6.51 |
| 820 | 91.5 | 75.0 | 52.6 | 5.46 | 6.01 | 6.56 |
| 825 | 90.9 | 75.0 | 52.3 | 5.50 | 6.05 | 6.60 |
| 830 | 90.3 | 74.9 | 51.9 | 5.54 | 6.09 | 6.64 |
| 835 | 89.7 | 74.9 | 51.6 | 5.57 | 6.13 | 6.69 |
| 840 | 89.2 | 74.9 | 51.3 | 5.60 | 6.16 | 6.73 |
| 845 | 88.6 | 74.9 | 51.0 | 5.64 | 6.21 | 6.77 |
| 850 | 88.1 | 74.9 | 50.7 | 5.68 | 6.24 | 6.81 |
| 855 | 87.6 | 74.9 | 50.4 | 5.71 | 6.28 | 6.85 |
| 860 | 87.0 | 74.8 | 50.0 | 5.75 | 6.32 | 6.90 |
| 865 | 86.5 | 74.8 | 49.7 | 5.78 | 6.36 | 6.94 |
| 870 | 86.0 | 74.8 | 49.4 | 5.81 | 6.40 | 6.98 |
| 875 | 85.5 | 74.8 | 49.2 | 5.85 | 6.43 | 7.02 |
| 880 | 84.9 | 74.7 | 48.8 | 5.89 | 6.48 | 7.07 |
| 885 | 84.4 | 74.7 | 48.5 | 5.92 | 6.52 | 7.11 |
| 890 | 83.9 | 74.7 | 48.2 | 5.96 | 6.56 | 7.15 |
| 895 | 83.4 | 74.6 | 48.0 | 6.00 | 6.59 | 7.19 |
| 900 | 82.9 | 74.6 | 47.7 | 6.03 | 6.63 | 7.24 |
| 910 | 81.9 | 74.5 | 47.1 | 6.10 | 6.72 | 7.33 |
| 920 | 81.0 | 74.5 | 46.6 | 6.17 | 6.79 | 7.41 |
| 930 | 80.0 | 74.4 | 46.0 | 6.25 | 6.88 | 7.50 |
| 940 | 79.1 | 74.4 | 45.5 | 6.32 | 6.95 | 7.58 |
| 950 | 78.3 | 74.4 | 45.0 | 6.38 | 7.02 | 7.66 |
| 960 | 77.4 | 74.3 | 44.5 | 6.46 | 7.10 | 7.75 |
| 970 | 76.6 | 74.3 | 44.0 | 6.53 | 7.18 | 7.83 |
| 980 | 75.8 | 74.3 | 43.6 | 6.60 | 7.26 | 7.92 |
| 990 | 74.9 | 74.2 | 43.1 | 6.68 | 7.34 | 8.01 |
| 1000 | 74.1 | 74.1 | 42.6 | 6.75 | 7.42 | 8.10 |
| 1020 | 72.5 | 74.0 | 41.7 | 6.90 | 7.59 | 8.28 |
| 1040 | 71.1 | 73.9 | 40.9 | 7.03 | 7.74 | 8.44 |
| 1060 | 69.7 | 73.9 | 40.1 | 7.17 | 7.89 | 8.61 |
| 1080 | 68.3 | 73.8 | 39.3 | 7.32 | 8.05 | 8.78 |
| 1100 | 67.0 | 73.7 | 38.5 | 7.46 | 8.21 | 8.96 |
| 1120 | 65.8 | 73.7 | 37.8 | 7.60 | 8.36 | 9.12 |
| 1140 | 64.6 | 73.6 | 37.2 | 7.74 | 8.51 | 9.29 |
| 1160 | 63.4 | 73.5 | 36.5 | 7.89 | 8.68 | 9.46 |
| 1180 | 62.2 | 73.4 | 35.8 | 8.04 | 8.84 | 9.65 |
| 1200 | 61.1 | 73.3 | 35.1 | 8.18 | 9.00 | 9.82 |
| 1225 | 59.8 | 73.2 | 34.4 | 8.36 | 9.20 | 10.03 |
| 1250 | 58.5 | 73.1 | 33.6 | 8.55 | 9.40 | 10.26 |
| 1275 | 57.4 | 73.2 | 33.0 | 8.71 | 9.58 | 10.45 |
| 1300 | 56.2 | 73.1 | 32.3 | 8.90 | 9.79 | 10.68 |
| 1325 | 55.1 | 73.0 | 31.7 | 9.07 | 9.98 | 10.89 |
| 1350 | 54.1 | 73.0 | 31.1 | 9.24 | 10.17 | 11.09 |
| 1375 | 53.0 | 72.9 | 30.5 | 9.43 | 10.38 | 11.32 |
| 1400 | 52.0 | 72.8 | 29.9 | 9.62 | 10.6 | 11.54 |
| 1425 | 51.0 | 72.7 | 29.3 | 9.80 | 10.8 | 11.76 |

TABLE 14 (4)

BI-CONVEX, 14 DIOPTERS

| Frequency (kc) | $t \times 10^3$ (inches) | ft (kc inches) | $t/r \times 10^3$ | d/t | | |
|-------------------|-----------------------------|-------------------|-------------------|-------------|-------------|-------------|
| | | | | $d=0.500''$ | $d=0.550''$ | $d=0.600''$ |
| 800 | 94.9 | 75.9 | 63.7 | 5.27 | 5.80 | 6.32 |
| 805 | 94.2 | 75.8 | 63.2 | 5.31 | 5.84 | 6.37 |
| 810 | 93.6 | 75.8 | 62.8 | 5.34 | 5.88 | 6.41 |
| 815 | 93.0 | 75.8 | 62.4 | 5.38 | 5.91 | 6.45 |
| 820 | 92.4 | 75.8 | 62.0 | 5.41 | 5.95 | 6.49 |
| 825 | 91.8 | 75.7 | 61.6 | 5.45 | 5.99 | 6.54 |
| 830 | 91.2 | 75.7 | 61.2 | 5.48 | 6.03 | 6.58 |
| 835 | 90.6 | 75.6 | 60.8 | 5.52 | 6.07 | 6.62 |
| 840 | 90.0 | 75.6 | 60.4 | 5.56 | 6.11 | 6.67 |
| 845 | 89.5 | 75.6 | 60.0 | 5.59 | 6.14 | 6.70 |
| 850 | 88.9 | 75.6 | 59.6 | 5.62 | 6.19 | 6.75 |
| 855 | 88.4 | 75.6 | 59.3 | 5.66 | 6.22 | 6.79 |
| 860 | 87.8 | 75.5 | 58.9 | 5.69 | 6.26 | 6.83 |
| 865 | 87.3 | 75.5 | 58.6 | 5.73 | 6.30 | 6.87 |
| 870 | 86.8 | 75.5 | 58.2 | 5.76 | 6.34 | 6.91 |
| 875 | 86.2 | 75.4 | 57.8 | 5.80 | 6.38 | 6.96 |
| 880 | 85.7 | 75.4 | 57.5 | 5.83 | 6.42 | 7.00 |
| 885 | 85.2 | 75.4 | 57.2 | 5.87 | 6.46 | 7.04 |
| 890 | 84.7 | 75.4 | 56.8 | 5.90 | 6.49 | 7.08 |
| 895 | 84.2 | 75.4 | 56.5 | 5.94 | 6.53 | 7.12 |
| 900 | 83.7 | 75.3 | 56.2 | 5.97 | 6.57 | 7.17 |
| 910 | 82.7 | 75.3 | 55.5 | 6.04 | 6.65 | 7.26 |
| 920 | 81.7 | 75.2 | 54.8 | 6.12 | 6.73 | 7.34 |
| 930 | 80.8 | 75.1 | 54.2 | 6.19 | 6.81 | 7.42 |
| 940 | 79.9 | 75.1 | 53.6 | 6.26 | 6.88 | 7.51 |
| 950 | 79.0 | 75.0 | 53.0 | 6.33 | 6.96 | 7.59 |
| 960 | 78.1 | 75.0 | 52.4 | 6.40 | 7.03 | 7.68 |
| 970 | 77.2 | 74.9 | 51.8 | 6.48 | 7.12 | 7.77 |
| 980 | 76.4 | 74.9 | 51.3 | 6.54 | 7.20 | 7.85 |
| 990 | 75.6 | 74.8 | 50.7 | 6.61 | 7.28 | 7.94 |
| 1000 | 74.8 | 74.8 | 50.2 | 6.68 | 7.35 | 8.02 |
| 1020 | 73.2 | 74.7 | 49.1 | 6.83 | 7.51 | 8.20 |
| 1040 | 71.7 | 74.6 | 48.1 | 6.97 | 7.67 | 8.37 |
| 1060 | 70.3 | 74.5 | 47.2 | 7.11 | 7.82 | 8.53 |
| 1080 | 69.0 | 74.5 | 46.3 | 7.25 | 7.97 | 8.70 |
| 1100 | 67.6 | 74.4 | 45.4 | 7.40 | 8.14 | 8.88 |
| 1120 | 66.4 | 74.4 | 44.6 | 7.53 | 8.28 | 9.04 |
| 1140 | 65.1 | 74.2 | 43.7 | 7.68 | 8.45 | 9.22 |
| 1160 | 63.9 | 74.1 | 42.9 | 7.82 | 8.61 | 9.39 |
| 1180 | 62.8 | 74.1 | 42.1 | 7.96 | 8.76 | 9.55 |
| 1200 | 61.6 | 73.9 | 41.3 | 8.12 | 8.93 | 9.74 |
| 1225 | 60.3 | 73.9 | 40.4 | 8.29 | 9.12 | 9.95 |
| 1250 | 59.0 | 73.8 | 39.6 | 8.47 | 9.32 | 10.17 |
| 1275 | 57.8 | 73.7 | 38.8 | 8.65 | 9.52 | 10.38 |
| 1300 | 56.7 | 73.7 | 38.0 | 8.82 | 9.70 | 10.58 |
| 1325 | 55.6 | 73.7 | 37.3 | 8.99 | 9.89 | 10.79 |
| 1350 | 54.5 | 73.6 | 36.6 | 9.17 | 10.09 | 11.01 |

TABLE 14 (5)

RESONANCE, 16 DIAPHRAGMS

| Frequency (kc) | $t \times 10^3$ (inches) | ft (kc inches) | $t/r \times 10^3$ | d/t | | |
|-------------------|-----------------------------|-------------------|-------------------|-------------|-------------|-------------|
| | | | | $d=0.500''$ | $d=0.550''$ | $d=0.600''$ |
| 800 | 95.8 | 76.6 | 73.4 | 5.22 | 5.74 | 6.26 |
| 805 | 95.2 | 76.6 | 73.0 | 5.25 | 5.78 | 6.30 |
| 810 | 94.5 | 76.5 | 72.5 | 5.29 | 5.82 | 6.35 |
| 815 | 93.9 | 76.5 | 72.0 | 5.32 | 5.86 | 6.39 |
| 820 | 93.3 | 76.5 | 71.5 | 5.36 | 5.89 | 6.43 |
| 825 | 92.6 | 76.4 | 76.4 | 5.40 | 5.94 | 6.48 |
| 830 | 92.0 | 76.4 | 76.4 | 5.43 | 5.98 | 6.52 |
| 835 | 91.5 | 76.4 | 76.4 | 5.46 | 6.01 | 6.56 |
| 840 | 90.9 | 76.4 | 76.4 | 5.50 | 6.05 | 6.60 |
| 845 | 90.3 | 76.3 | 76.3 | 5.54 | 6.09 | 6.64 |
| 850 | 89.7 | 76.2 | 68.8 | 5.57 | 6.13 | 6.69 |
| 855 | 89.2 | 76.2 | 68.4 | 5.60 | 6.16 | 6.73 |
| 860 | 88.6 | 76.2 | 67.9 | 5.64 | 6.21 | 6.77 |
| 865 | 88.1 | 76.2 | 67.6 | 5.68 | 6.24 | 6.81 |
| 870 | 87.5 | 76.1 | 67.1 | 5.71 | 6.28 | 6.86 |
| 875 | 87.0 | 76.1 | 66.7 | 5.75 | 6.32 | 6.90 |
| 880 | 86.5 | 76.1 | 66.3 | 5.78 | 6.36 | 6.94 |
| 885 | 86.0 | 76.1 | 65.9 | 5.81 | 6.40 | 6.98 |
| 890 | 85.4 | 76.0 | 65.5 | 5.85 | 6.44 | 7.02 |
| 895 | 84.9 | 76.0 | 65.1 | 5.89 | 6.48 | 7.07 |
| 900 | 84.4 | 76.0 | 64.7 | 5.92 | 6.52 | 7.11 |
| 910 | 83.4 | 75.9 | 64.0 | 6.00 | 6.59 | 7.19 |
| 920 | 82.5 | 75.9 | 63.3 | 6.06 | 6.67 | 7.27 |
| 930 | 81.5 | 75.8 | 62.5 | 6.13 | 6.75 | 7.36 |
| 940 | 80.6 | 75.8 | 61.8 | 6.20 | 6.82 | 7.44 |
| 950 | 79.7 | 75.7 | 61.1 | 6.27 | 6.90 | 7.53 |
| 960 | 78.8 | 75.6 | 60.4 | 6.34 | 6.98 | 7.61 |
| 970 | 77.9 | 75.6 | 59.7 | 6.42 | 7.06 | 7.70 |
| 980 | 77.1 | 75.6 | 59.1 | 6.48 | 7.13 | 7.78 |
| 990 | 76.3 | 75.5 | 58.5 | 6.55 | 7.21 | 7.86 |
| 1000 | 75.4 | 75.4 | 57.8 | 6.63 | 7.29 | 7.96 |
| 1020 | 73.8 | 75.3 | 56.6 | 6.78 | 7.45 | 8.13 |
| 1040 | 72.3 | 75.2 | 55.4 | 6.92 | 7.61 | 8.30 |
| 1060 | 70.9 | 75.2 | 54.4 | 7.05 | 7.76 | 8.46 |
| 1080 | 69.5 | 75.1 | 53.3 | 7.19 | 7.91 | 8.63 |
| 1100 | 68.2 | 75.0 | 52.3 | 7.33 | 8.06 | 8.80 |
| 1120 | 66.9 | 75.0 | 51.3 | 7.47 | 8.22 | 8.97 |
| 1140 | 65.6 | 74.8 | 50.3 | 7.62 | 8.38 | 9.15 |
| 1160 | 64.4 | 74.7 | 49.4 | 7.76 | 8.54 | 9.32 |
| 1180 | 63.3 | 74.7 | 48.5 | 7.90 | 8.69 | 9.48 |
| 1200 | 62.1 | 74.5 | 47.6 | 8.05 | 8.86 | 9.66 |
| 1225 | 60.8 | 74.5 | 46.6 | 8.22 | 9.05 | 9.87 |

TABLE 14 (6)

BI-CONVEX, 18 DIOPTERS

| Frequency (kc) | $t \times 10^3$ (inches) | ft (kc inches) | $t/r \times 10^3$ | d/t | | |
|-------------------|-----------------------------|-------------------|-------------------|-------------|-------------|-------------|
| | | | | $d=0.500''$ | $d=0.550''$ | $d=0.600''$ |
| 800 | 96.5 | 77.2 | 83.2 | 5.18 | 5.70 | 6.22 |
| 805 | 95.9 | 77.2 | 82.7 | 5.21 | 5.74 | 6.26 |
| 810 | 95.3 | 77.2 | 82.2 | 5.25 | 5.77 | 6.30 |
| 815 | 94.6 | 77.1 | 81.6 | 5.28 | 5.81 | 6.34 |
| 820 | 94.0 | 77.1 | 81.1 | 5.32 | 5.85 | 6.38 |
| 825 | 93.4 | 77.0 | 80.6 | 5.35 | 5.89 | 6.42 |
| 830 | 92.8 | 77.0 | 80.0 | 5.39 | 5.93 | 6.46 |
| 835 | 92.2 | 77.0 | 79.5 | 5.42 | 5.96 | 6.51 |
| 840 | 91.6 | 76.9 | 79.0 | 5.46 | 6.00 | 6.55 |
| 845 | 91.1 | 76.9 | 78.6 | 5.49 | 6.04 | 6.59 |
| 850 | 90.5 | 76.9 | 78.1 | 5.52 | 6.08 | 6.63 |
| 855 | 89.9 | 76.9 | 77.6 | 5.56 | 6.12 | 6.67 |
| 860 | 89.3 | 76.8 | 77.0 | 5.60 | 6.16 | 6.72 |
| 865 | 88.8 | 76.8 | 76.6 | 5.63 | 6.19 | 6.76 |
| 870 | 88.2 | 76.7 | 76.1 | 5.67 | 6.24 | 6.80 |
| 875 | 87.7 | 76.7 | 75.6 | 5.70 | 6.27 | 6.84 |
| 880 | 87.1 | 76.6 | 75.1 | 5.74 | 6.31 | 6.89 |
| 885 | 86.6 | 76.6 | 74.7 | 5.77 | 6.35 | 6.93 |
| 890 | 86.1 | 76.6 | 74.3 | 5.81 | 6.39 | 6.97 |
| 895 | 85.6 | 76.6 | 73.8 | 5.84 | 6.42 | 7.01 |
| 900 | 85.1 | 76.6 | 73.4 | 5.88 | 6.46 | 7.05 |
| 910 | 84.1 | 76.5 | 72.5 | 5.94 | 6.54 | 7.13 |
| 920 | 83.1 | 76.4 | 71.7 | 6.02 | 6.62 | 7.22 |
| 930 | 82.1 | 76.4 | 70.8 | 6.09 | 6.70 | 7.31 |
| 940 | 81.2 | 76.3 | 70.0 | 6.16 | 6.77 | 7.39 |
| 950 | 80.3 | 76.3 | 69.3 | 6.23 | 6.85 | 7.47 |
| 960 | 79.5 | 76.3 | 68.6 | 6.29 | 6.92 | 7.55 |
| 970 | 78.6 | 76.2 | 67.8 | 6.36 | 7.00 | 7.63 |
| 980 | 77.7 | 76.1 | 67.0 | 6.44 | 7.08 | 7.72 |
| 990 | 76.9 | 76.1 | 66.3 | 6.50 | 7.15 | 7.80 |
| 1000 | 76.1 | 76.1 | 65.6 | 6.57 | 7.23 | 7.88 |
| 1020 | 74.4 | 75.9 | 64.2 | 6.72 | 7.39 | 8.06 |
| 1040 | 72.9 | 75.8 | 62.9 | 6.86 | 7.54 | 8.23 |
| 1060 | 71.4 | 75.7 | 61.6 | 7.00 | 7.70 | 8.40 |
| 1080 | 70.0 | 75.6 | 60.4 | 7.14 | 7.86 | 8.57 |
| 1100 | 68.6 | 75.5 | 59.2 | 7.29 | 8.02 | 8.75 |
| 1120 | 67.3 | 75.4 | 58.0 | 7.43 | 8.17 | 8.92 |
| 1140 | 66.1 | 75.4 | 57.0 | 7.56 | 8.32 | 9.08 |
| 1160 | 64.9 | 75.3 | 56.0 | 7.70 | 8.47 | 9.24 |
| 1180 | 63.7 | 75.2 | 55.0 | 7.85 | 8.63 | 9.42 |
| 1200 | 62.6 | 75.1 | 54.0 | 7.99 | 8.78 | 9.58 |

TABLE 14 (7)
BI-CONVEX, 20 DIOPTERS

| Frequency (kc) | $t \times 10^3$ (inches) | ft (kc inches) | $t/r \times 10^3$ | d/t | | |
|-------------------|-----------------------------|-------------------|-------------------|-------------|-------------|-------------|
| | | | | $d=0.500''$ | $d=0.550''$ | $d=0.600''$ |
| 800 | 97.4 | 77.9 | 93.4 | 5.13 | 5.65 | 6.16 |
| 805 | 96.7 | 77.8 | 92.7 | 5.17 | 5.69 | 6.20 |
| 810 | 96.0 | 77.8 | 92.0 | 5.21 | 5.73 | 6.25 |
| 815 | 95.4 | 77.8 | 91.4 | 5.24 | 5.76 | 6.29 |
| 820 | 94.8 | 77.7 | 90.9 | 5.27 | 5.80 | 6.33 |
| 825 | 94.2 | 77.7 | 90.3 | 5.31 | 5.84 | 6.37 |
| 830 | 93.6 | 77.7 | 89.7 | 5.34 | 5.88 | 6.41 |
| 835 | 93.0 | 77.6 | 89.1 | 5.38 | 5.91 | 6.45 |
| 840 | 92.4 | 77.6 | 88.6 | 5.41 | 5.95 | 6.49 |
| 845 | 91.8 | 77.6 | 88.0 | 5.45 | 5.99 | 6.54 |
| 850 | 91.2 | 77.5 | 87.4 | 5.48 | 6.03 | 6.58 |
| 855 | 90.6 | 77.5 | 86.8 | 5.52 | 6.07 | 6.62 |
| 860 | 90.1 | 77.5 | 86.4 | 5.55 | 6.10 | 6.66 |
| 865 | 89.5 | 77.4 | 85.8 | 5.59 | 6.14 | 6.70 |
| 870 | 89.0 | 77.4 | 85.3 | 5.62 | 6.18 | 6.74 |
| 875 | 88.4 | 77.4 | 84.7 | 5.66 | 6.22 | 6.79 |
| 880 | 87.8 | 77.3 | 84.2 | 5.69 | 6.26 | 6.83 |
| 885 | 87.3 | 77.3 | 83.7 | 5.73 | 6.30 | 6.87 |
| 890 | 86.8 | 77.2 | 83.2 | 5.76 | 6.34 | 6.91 |
| 895 | 86.2 | 77.1 | 82.6 | 5.80 | 6.38 | 6.96 |
| 900 | 85.7 | 77.1 | 82.1 | 5.83 | 6.42 | 7.00 |
| 910 | 84.7 | 77.1 | 81.2 | 5.90 | 6.49 | 7.08 |
| 920 | 83.7 | 77.0 | 80.2 | 5.97 | 6.57 | 7.17 |
| 930 | 82.8 | 77.0 | 79.4 | 6.04 | 6.64 | 7.25 |
| 940 | 81.8 | 76.9 | 78.4 | 6.11 | 6.72 | 7.33 |
| 950 | 80.9 | 76.8 | 77.5 | 6.18 | 6.80 | 7.42 |
| 960 | 80.0 | 76.8 | 76.7 | 6.25 | 6.88 | 7.50 |
| 970 | 79.2 | 76.8 | 75.9 | 6.31 | 6.94 | 7.58 |
| 980 | 78.3 | 76.7 | 75.0 | 6.38 | 7.02 | 7.66 |
| 990 | 77.5 | 76.7 | 74.3 | 6.45 | 7.10 | 7.74 |
| 1000 | 76.6 | 76.6 | 73.4 | 6.53 | 7.18 | 7.83 |
| 1020 | 75.0 | 76.5 | 71.9 | 6.67 | 7.33 | 8.00 |

TABLE 14 (8)

BI-CONVEX,

| (kc) | (inches) | d/t | | | | |
|------|----------|------|-------|-----------------|-----------------|------|
| | | | | <u>d=0.500"</u> | <u>d=0.600"</u> | |
| 800 | 98.1 | 78.5 | 103.4 | 5.10 | 5.61 | 6.12 |
| 805 | 97.4 | 78.4 | 102.7 | 5.13 | 5.65 | 6.16 |
| 810 | 96.8 | 78.4 | 102.1 | 5.16 | 5.68 | 6.20 |
| 815 | 96.1 | 78.3 | 101.3 | 5.20 | 5.72 | 6.24 |
| 820 | 95.5 | 78.3 | 100.7 | 5.24 | 5.76 | 6.28 |
| 825 | 94.9 | 78.3 | 100.1 | 5.27 | 5.80 | 6.32 |
| 830 | 94.3 | 78.3 | 99.4 | 5.30 | 5.83 | 6.36 |
| 835 | 93.7 | 78.2 | 98.8 | 5.34 | 5.87 | 6.40 |
| 840 | 93.1 | 78.2 | 98.2 | 5.37 | 5.91 | 6.44 |
| 845 | 92.5 | 78.2 | 97.5 | 5.40 | 5.94 | 6.49 |
| | | | | | | |
| 850 | 91.9 | 78.1 | 96.9 | 5.44 | 5.98 | 6.53 |
| 855 | 91.3 | 78.1 | 96.3 | 5.48 | 6.02 | 6.57 |
| 860 | 90.7 | 78.0 | 95.6 | 5.51 | 6.06 | 6.62 |
| 865 | 90.1 | 78.0 | 95.0 | 5.55 | 6.10 | 6.66 |
| 870 | 89.6 | 78.0 | 94.5 | 5.58 | 6.14 | 6.70 |
| 875 | 89.0 | 77.9 | 93.8 | 5.62 | 6.18 | 6.74 |
| 880 | 88.5 | 77.9 | 93.3 | 5.65 | 6.21 | 6.78 |
| 885 | 88.0 | 77.9 | 92.8 | 5.68 | 6.25 | 6.82 |
| 890 | 87.4 | 77.8 | 92.2 | 5.72 | 6.29 | 6.86 |
| 895 | 86.9 | 77.8 | 91.6 | 5.75 | 6.33 | 6.90 |
| | | | | | | |
| 900 | 86.3 | 77.7 | 91.0 | 5.79 | 6.37 | 6.95 |
| 910 | 85.3 | 77.6 | 89.9 | 5.86 | 6.45 | 7.03 |
| 920 | 84.3 | 77.6 | 88.9 | 5.93 | 6.52 | 7.12 |
| 930 | 83.4 | 77.6 | 87.9 | 6.00 | 6.59 | 7.19 |
| 940 | 82.4 | 77.4 | 86.9 | 6.07 | 6.67 | 7.28 |
| 950 | 81.5 | 77.4 | 85.9 | 6.13 | 6.75 | 7.36 |
| 960 | 80.6 | 77.4 | 85.0 | 6.20 | 6.82 | 7.44 |
| 970 | 79.7 | 77.3 | 84.0 | 6.27 | 6.90 | 7.53 |
| 980 | 78.8 | 77.2 | 83.1 | 6.34 | 6.98 | 7.61 |
| 990 | 78.0 | 77.2 | 82.2 | 6.41 | 7.05 | 7.69 |
| | | | | | | |
| 1000 | 77.1 | 77.1 | 81.3 | 6.48 | 7.13 | 7.78 |
| 1020 | 75.5 | 77.0 | 79.6 | 6.62 | 7.28 | 7.95 |

TABLE 14 (9)
PLANO-CONVEX, 4 DIOPTERS

| Frequency (kc) | $t \times 10^3$ (inches) | ft (kc inches) | $t/r \times 10^3$ | d/t | | |
|-------------------|-----------------------------|-------------------|-------------------|-------------|-------------|-------------|
| | | | | $d=0.500''$ | $d=0.550''$ | $d=0.600''$ |
| 1800 | 37.8 | 68.1 | 7.25 | 13.2 | 14.6 | 15.9 |
| 1825 | 37.3 | 68.1 | 7.15 | 13.4 | 14.7 | 16.1 |
| 1850 | 36.8 | 68.1 | 7.05 | 13.6 | 14.9 | 16.3 |
| 1875 | 36.3 | 68.1 | 6.96 | 13.8 | 15.2 | 16.5 |
| 1900 | 35.8 | 68.0 | 6.86 | 14.0 | 15.4 | 16.8 |
| 1925 | 35.3 | 68.0 | 6.77 | 14.2 | 15.6 | 17.0 |
| 1950 | 34.8 | 67.9 | 6.67 | 14.4 | 15.8 | 17.2 |
| 1975 | 34.4 | 67.9 | 6.59 | 14.5 | 16.0 | 17.4 |
| 2000 | 34.0 | 67.9 | 6.52 | 14.7 | 16.2 | 17.6 |
| 2050 | 33.1 | 67.8 | 6.34 | 15.1 | 16.6 | 18.1 |
| 2100 | 32.3 | 67.8 | 6.19 | 15.5 | 17.0 | 18.6 |
| 2150 | 31.6 | 67.8 | 6.06 | 15.8 | 17.4 | 19.0 |
| 2200 | 30.8 | 67.8 | 5.90 | 16.2 | 17.9 | 19.5 |
| 2250 | 30.1 | 67.7 | 5.77 | 16.6 | 18.3 | 19.9 |
| 2300 | 29.4 | 67.6 | 5.64 | 17.0 | 18.7 | 20.4 |

TABLE 14 (10)

-CONVEX,

| (kc) | | (kc) | | d/t | | |
|------|------|------|------|----------|----------|----------|
| | | | | d=0.500" | d=0.550" | d=0.600" |
| 1350 | 51.4 | 69.4 | 14.8 | 9.73 | 10.7 | 11.7 |
| 1375 | 50.4 | 69.3 | 14.5 | 9.92 | 10.9 | 11.9 |
| 1400 | 49.4 | 69.2 | 14.2 | 10.1 | 11.1 | 12.1 |
| 1425 | 48.5 | 69.1 | 13.9 | 10.3 | 11.3 | 12.4 |
| 1450 | 47.6 | 69.0 | 13.7 | 10.5 | 11.6 | 12.6 |
| 1475 | 46.8 | 69.0 | 13.4 | 10.7 | 11.8 | 12.8 |
| 1500 | 46.0 | 69.0 | 13.2 | 10.9 | 12.0 | 13.0 |
| 1525 | 45.2 | 69.0 | 13.0 | 11.1 | 12.2 | 13.3 |
| 1550 | 44.5 | 69.0 | 12.8 | 11.2 | 12.4 | 13.5 |
| 1575 | 43.8 | 69.0 | 12.6 | 11.4 | 12.6 | 13.7 |
| 1600 | 43.1 | 69.0 | 12.4 | 11.6 | 12.8 | 13.9 |
| 1625 | 42.4 | 69.0 | 12.2 | 11.8 | 13.0 | 14.2 |
| 1650 | 41.8 | 69.0 | 12.0 | 12.0 | 13.2 | 14.4 |
| 1675 | 41.2 | 69.0 | 11.8 | 12.1 | 13.3 | 14.6 |
| 1700 | 40.5 | 68.8 | 11.6 | 12.3 | 13.6 | 14.8 |
| 1725 | 39.9 | 68.8 | 11.5 | 12.5 | 13.8 | 15.0 |
| 1750 | 39.3 | 68.8 | 11.3 | 12.7 | 14.0 | 15.3 |
| 1775 | 38.7 | 68.7 | 11.1 | 12.9 | 14.2 | 15.5 |
| 1800 | 38.2 | 68.7 | 11.0 | 13.1 | 14.4 | 15.7 |
| 1825 | 37.6 | 68.6 | 10.8 | 13.3 | 14.6 | 16.0 |
| 1850 | 37.1 | 68.6 | 10.7 | 13.5 | 14.8 | 16.2 |
| 1875 | 36.6 | 68.6 | 10.5 | 13.7 | 15.0 | 16.4 |
| 1900 | 36.1 | 68.6 | 10.4 | 13.8 | 15.2 | 16.6 |
| 1925 | 35.6 | 68.5 | 10.2 | 14.0 | 15.4 | 16.8 |
| 1950 | 35.1 | 68.5 | 10.1 | 14.2 | 15.7 | 17.1 |
| 1975 | 34.7 | 68.5 | 9.98 | 14.4 | 15.8 | 17.3 |
| 2000 | 34.2 | 68.5 | 9.83 | 14.6 | 16.1 | 17.5 |
| 2050 | 33.4 | 68.5 | 9.60 | 15.0 | 16.5 | 18.0 |
| 2100 | 32.6 | 68.5 | 9.37 | 15.3 | 16.9 | 18.4 |
| 2150 | 31.8 | 68.4 | 9.14 | 15.7 | 17.3 | 18.9 |
| 2200 | 31.1 | 68.4 | 8.94 | 16.1 | 17.7 | 19.3 |
| 2250 | 30.4 | 68.4 | 8.74 | 16.4 | 18.1 | 19.7 |
| 2300 | 29.6 | 68.1 | 8.51 | 16.9 | 18.6 | 20.3 |

TABLE 14 (11)
PLANO-CONVEX, 8 DIOPTERS

| Frequency (kc) | $t \times 10^3$ (inches) | ft (kc inches) | $t/r \times 10^3$ | d/t | | |
|-------------------|-----------------------------|-------------------|-------------------|-------------|-------------|-------------|
| | | | | $d=0.500''$ | $d=0.550''$ | $d=0.600''$ |
| 1350 | 51.8 | 69.9 | 19.9 | 9.65 | 10.6 | 11.6 |
| 1375 | 50.8 | 69.8 | 19.5 | 9.84 | 10.8 | 11.8 |
| 1400 | 49.8 | 69.7 | 19.1 | 10.0 | 11.0 | 12.0 |
| 1425 | 48.9 | 69.7 | 18.7 | 10.2 | 11.2 | 12.3 |
| 1450 | 48.0 | 69.6 | 18.4 | 10.4 | 11.4 | 12.5 |
| 1475 | 47.1 | 69.5 | 18.0 | 10.6 | 11.7 | 12.7 |
| 1500 | 46.3 | 69.4 | 17.8 | 10.8 | 11.9 | 13.0 |
| 1525 | 45.5 | 69.4 | 17.4 | 11.0 | 12.1 | 13.2 |
| 1550 | 44.8 | 69.4 | 17.2 | 11.2 | 12.3 | 13.4 |
| 1575 | 44.1 | 69.4 | 16.9 | 11.3 | 12.5 | 13.6 |
| 1600 | 43.4 | 69.4 | 16.6 | 11.5 | 12.7 | 13.8 |
| 1625 | 42.7 | 69.4 | 16.4 | 11.7 | 12.9 | 14.0 |
| 1650 | 42.0 | 69.3 | 16.1 | 11.9 | 13.1 | 14.3 |
| 1675 | 41.4 | 69.3 | 15.9 | 12.1 | 13.3 | 14.5 |
| 1700 | 40.8 | 69.3 | 15.6 | 12.2 | 13.5 | 14.7 |
| 1725 | 40.2 | 69.3 | 15.4 | 12.4 | 13.7 | 14.9 |
| 1750 | 39.6 | 69.3 | 15.2 | 12.6 | 13.9 | 15.2 |
| 1775 | 39.0 | 69.2 | 15.0 | 12.8 | 14.1 | 15.4 |
| 1800 | 38.4 | 69.2 | 14.7 | 13.0 | 14.3 | 15.6 |
| 1825 | 37.9 | 69.2 | 14.5 | 13.2 | 14.5 | 15.8 |
| 1850 | 37.4 | 69.2 | 14.3 | 13.4 | 14.7 | 16.0 |
| 1875 | 36.9 | 69.2 | 14.1 | 13.6 | 14.9 | 16.3 |
| 1900 | 36.4 | 69.2 | 14.0 | 13.7 | 15.1 | 16.5 |
| 1925 | 35.9 | 69.1 | 13.8 | 13.9 | 15.3 | 16.7 |
| 1950 | 35.4 | 69.1 | 13.6 | 14.1 | 15.5 | 16.9 |
| 1975 | 35.0 | 69.1 | 13.4 | 14.3 | 15.7 | 17.1 |
| 2000 | 34.5 | 69.0 | 13.2 | 14.5 | 15.9 | 17.4 |
| 2050 | 33.7 | 69.0 | 12.9 | 14.8 | 16.3 | 17.8 |
| 2100 | 32.9 | 69.0 | 12.6 | 15.2 | 16.7 | 18.2 |
| 2150 | 32.1 | 69.0 | 12.3 | 15.6 | 17.1 | 18.7 |
| 2200 | 31.3 | 68.9 | 12.0 | 16.0 | 17.6 | 19.2 |
| 2250 | 30.6 | 68.8 | 11.7 | 16.3 | 18.0 | 19.6 |
| 2300 | 29.8 | 68.5 | 11.4 | 16.8 | 18.4 | 20.1 |

TABLE 14 (12)
PLANO-CONVEX, 10 DIOPTERS

| Frequency (kc) | $t \times 10^3$ (inches) | ft (kc inches) | $t/r \times 10^3$ | d/t | | |
|-------------------|-----------------------------|-------------------|-------------------|-------------|-------------|-------------|
| | | | | $d=0.500''$ | $d=0.550''$ | $d=0.600''$ |
| 1375 | 51.2 | 70.4 | 24.5 | 9.76 | 10.7 | 11.7 |
| 1400 | 50.1 | 70.1 | 24.0 | 9.98 | 11.0 | 12.0 |
| 1425 | 49.2 | 70.1 | 23.6 | 10.2 | 11.2 | 12.2 |
| 1450 | 48.2 | 69.9 | 23.1 | 10.4 | 11.4 | 12.4 |
| 1475 | 47.4 | 69.9 | 22.7 | 10.5 | 11.6 | 12.6 |
| 1500 | 46.6 | 69.9 | 22.3 | 10.7 | 11.8 | 12.9 |
| 1525 | 45.8 | 69.9 | 21.9 | 10.9 | 12.0 | 13.1 |
| 1550 | 45.1 | 69.9 | 21.6 | 11.1 | 12.2 | 13.3 |
| 1575 | 44.4 | 69.9 | 21.3 | 11.3 | 12.4 | 13.5 |
| 1600 | 43.7 | 69.9 | 20.9 | 11.4 | 12.6 | 13.7 |
| 1625 | 43.0 | 69.9 | 20.6 | 11.6 | 12.8 | 14.0 |
| 1650 | 42.4 | 69.9 | 20.3 | 11.8 | 13.0 | 14.2 |
| 1675 | 41.7 | 69.6 | 20.0 | 12.0 | 13.2 | 14.4 |
| 1700 | 41.1 | 69.9 | 19.7 | 12.2 | 13.4 | 14.6 |
| 1725 | 40.5 | 69.9 | 19.4 | 12.3 | 13.6 | 14.8 |
| 1750 | 39.9 | 69.8 | 19.1 | 12.5 | 13.8 | 15.0 |
| 1775 | 39.3 | 69.8 | 18.8 | 12.7 | 14.0 | 15.3 |
| 1800 | 38.7 | 69.7 | 18.5 | 12.9 | 14.2 | 15.5 |
| 1825 | 38.1 | 69.6 | 18.2 | 13.1 | 14.4 | 15.7 |
| 1850 | 37.6 | 69.6 | 18.0 | 13.3 | 14.6 | 16.0 |
| 1875 | 37.1 | 69.6 | 17.8 | 13.5 | 14.8 | 16.2 |
| 1900 | 36.6 | 69.5 | 17.5 | 13.7 | 15.0 | 16.4 |
| 1925 | 36.1 | 69.5 | 17.3 | 13.8 | 15.2 | 16.6 |
| 1950 | 35.6 | 69.5 | 17.1 | 14.0 | 15.4 | 16.8 |
| 1975 | 35.1 | 69.4 | 16.8 | 14.2 | 15.7 | 17.1 |
| 2000 | 34.7 | 69.4 | 16.6 | 14.4 | 15.8 | 17.3 |
| 2050 | 33.9 | 69.4 | 16.2 | 14.7 | 16.2 | 17.7 |
| 2100 | 33.1 | 69.4 | 15.9 | 15.1 | 16.6 | 18.1 |
| 2150 | 32.3 | 69.4 | 15.5 | 15.5 | 17.0 | 18.6 |
| 2200 | 31.5 | 69.3 | 15.1 | 15.9 | 17.5 | 19.0 |
| 2250 | 30.7 | 69.1 | 14.7 | 16.3 | 17.9 | 19.5 |
| 2300 | 30.0 | 69.0 | 14.4 | 16.7 | 18.3 | 20.0 |

TABLE 14 (13)
PLANO-CONVEX, 12 DIOPTERS

| Frequency (kc) | $t \times 10^3$ (inches) | ft (kc inches) | $t/r \times 10^3$ | d/t | | |
|-------------------|-----------------------------|-------------------|-------------------|----------|----------|----------|
| | | | | d=0.500" | d=0.550" | d=0.600" |
| 1375 | 51.6 | 71.0 | 29.7 | 9.69 | 10.6 | 11.6 |
| 1400 | 50.5 | 70.7 | 29.0 | 9.90 | 10.9 | 11.9 |
| 1425 | 49.5 | 70.5 | 28.5 | 10.1 | 11.1 | 12.1 |
| 1450 | 48.6 | 70.5 | 27.9 | 10.3 | 11.3 | 12.3 |
| 1475 | 47.7 | 70.4 | 27.4 | 10.5 | 11.5 | 12.6 |
| 1500 | 46.9 | 70.4 | 27.0 | 10.7 | 11.7 | 12.8 |
| 1525 | 46.1 | 70.4 | 26.5 | 10.8 | 11.9 | 13.0 |
| 1550 | 45.4 | 70.4 | 26.1 | 11.0 | 12.1 | 13.2 |
| 1575 | 44.7 | 70.4 | 25.7 | 11.2 | 12.3 | 13.4 |
| 1600 | 44.0 | 70.4 | 25.3 | 11.4 | 12.5 | 13.6 |
| 1625 | 43.3 | 70.4 | 24.9 | 11.5 | 12.7 | 13.8 |
| 1650 | 42.6 | 70.4 | 24.5 | 11.7 | 12.9 | 14.1 |
| 1675 | 42.0 | 70.4 | 24.2 | 11.9 | 13.1 | 14.3 |
| 1700 | 41.4 | 70.4 | 23.8 | 12.1 | 13.3 | 14.5 |
| 1725 | 40.8 | 70.4 | 23.5 | 12.2 | 13.5 | 14.7 |
| 1750 | 40.2 | 70.4 | 23.1 | 12.4 | 13.7 | 14.9 |
| 1775 | 39.5 | 70.2 | 22.7 | 12.6 | 13.9 | 15.2 |
| 1800 | 39.0 | 70.2 | 22.4 | 12.8 | 14.1 | 15.4 |
| 1825 | 38.4 | 70.1 | 22.1 | 13.0 | 14.3 | 15.6 |
| 1850 | 37.8 | 69.9 | 21.7 | 13.2 | 14.6 | 15.9 |
| 1875 | 37.3 | 69.9 | 21.4 | 13.4 | 14.7 | 16.1 |
| 1900 | 36.8 | 69.9 | 21.2 | 13.6 | 14.9 | 16.3 |
| 1925 | 36.3 | 69.9 | 20.9 | 13.8 | 15.2 | 16.5 |
| 1950 | 35.8 | 69.8 | 20.6 | 14.0 | 15.4 | 16.8 |
| 1975 | 35.4 | 69.8 | 20.4 | 14.1 | 15.5 | 16.9 |
| 2000 | 34.9 | 69.8 | 20.1 | 14.3 | 15.8 | 17.2 |
| 2050 | 34.1 | 69.8 | 19.6 | 14.7 | 16.1 | 17.6 |
| 2100 | 33.2 | 69.7 | 19.1 | 15.1 | 16.6 | 18.1 |

TABLE 14 (14)
PLANO-CONVEX, 14 DIOPTERS

| Frequency (kc) | $t \times 10^3$ (inches) | ft (kc inches) | $t/r \times 10^3$ | d/t | | |
|-------------------|-----------------------------|-------------------|-------------------|-------------|-------------|-------------|
| | | | | $d=0.500''$ | $d=0.550''$ | $d=0.600''$ |
| 1375 | 51.9 | 71.4 | 34.8 | 9.63 | 10.6 | 11.6 |
| 1400 | 50.8 | 71.1 | 34.1 | 9.84 | 10.8 | 11.8 |
| 1425 | 49.8 | 71.0 | 33.4 | 10.0 | 11.0 | 12.0 |
| 1450 | 48.9 | 70.9 | 32.8 | 10.2 | 11.2 | 12.3 |
| 1475 | 48.0 | 70.8 | 32.2 | 10.4 | 11.4 | 12.5 |
| 1500 | 47.1 | 70.7 | 31.6 | 10.6 | 11.7 | 12.7 |
| 1525 | 46.3 | 70.7 | 31.1 | 10.8 | 11.9 | 13.0 |
| 1550 | 45.6 | 70.7 | 30.6 | 11.0 | 12.1 | 13.2 |
| 1575 | 44.9 | 70.7 | 30.1 | 11.1 | 12.2 | 13.4 |
| 1600 | 44.2 | 70.7 | 29.6 | 11.3 | 12.4 | 13.6 |
| 1625 | 43.5 | 70.7 | 29.2 | 11.5 | 12.6 | 13.8 |
| 1650 | 42.9 | 70.7 | 28.8 | 11.6 | 12.8 | 14.0 |
| 1675 | 42.2 | 70.7 | 28.3 | 11.8 | 13.0 | 14.2 |
| 1700 | 41.6 | 70.7 | 27.9 | 12.0 | 13.2 | 14.4 |
| 1725 | 41.0 | 70.7 | 27.5 | 12.2 | 13.4 | 14.6 |
| 1750 | 40.4 | 70.7 | 27.1 | 12.4 | 13.6 | 14.8 |
| 1775 | 39.8 | 70.6 | 26.7 | 12.6 | 13.8 | 15.1 |
| 1800 | 39.2 | 70.6 | 26.3 | 12.8 | 14.0 | 15.3 |
| 1825 | 38.6 | 70.4 | 25.9 | 13.0 | 14.2 | 15.5 |
| 1850 | 38.0 | 70.3 | 25.5 | 13.2 | 14.5 | 15.8 |
| 1875 | 37.5 | 70.3 | 25.2 | 13.3 | 14.7 | 16.0 |
| 1900 | 37.0 | 70.3 | 24.8 | 13.5 | 14.9 | 16.2 |
| 1925 | 36.5 | 70.3 | 24.5 | 13.7 | 15.1 | 16.4 |
| 1950 | 36.0 | 70.2 | 24.2 | 13.9 | 15.3 | 16.7 |
| 1975 | 35.5 | 70.1 | 23.8 | 14.1 | 15.5 | 16.9 |
| 2000 | 35.1 | 70.1 | 23.6 | 14.2 | 15.7 | 17.1 |
| 2050 | 34.2 | 70.1 | 22.9 | 14.6 | 16.1 | 17.5 |
| 2100 | 33.4 | 70.1 | 22.4 | 15.0 | 16.5 | 18.0 |

TABLE 14 (15)
PLANO-CONVEX, 16 DIOPTERS

| Frequency (kc) | $t \times 10^3$ (inches) | ft (kc inches) | $t/r \times 10^3$ | d/t | | |
|-------------------|-----------------------------|-------------------|-------------------|-------------|-------------|-------------|
| | | | | $d=0.500''$ | $d=0.550''$ | $d=0.600''$ |
| 1400 | 51.1 | 71.5 | 39.2 | 9.78 | 10.8 | 11.7 |
| 1425 | 50.1 | 71.4 | 38.4 | 9.98 | 11.0 | 12.0 |
| 1450 | 49.1 | 71.2 | 37.6 | 10.2 | 11.2 | 12.2 |
| 1475 | 48.2 | 71.1 | 37.0 | 10.4 | 11.4 | 12.4 |
| 1500 | 47.3 | 71.0 | 36.3 | 10.6 | 11.6 | 12.7 |
| 1525 | 46.5 | 71.0 | 35.6 | 10.8 | 11.8 | 12.9 |
| 1550 | 45.8 | 71.0 | 35.1 | 10.9 | 12.0 | 13.1 |
| 1575 | 45.1 | 71.0 | 34.6 | 11.1 | 12.2 | 13.3 |
| 1600 | 44.4 | 71.0 | 34.0 | 11.3 | 12.4 | 13.5 |
| 1625 | 43.7 | 71.0 | 33.5 | 11.4 | 12.6 | 13.7 |
| 1650 | 43.1 | 71.0 | 33.0 | 11.6 | 12.8 | 13.9 |
| 1675 | 42.4 | 71.0 | 32.5 | 11.8 | 13.0 | 14.2 |
| 1700 | 41.8 | 71.0 | 32.0 | 12.0 | 13.2 | 14.4 |
| 1725 | 41.2 | 71.0 | 31.6 | 12.1 | 13.3 | 14.6 |
| 1750 | 40.6 | 71.0 | 31.1 | 12.3 | 13.5 | 14.8 |
| 1775 | 40.0 | 71.0 | 30.7 | 12.5 | 13.8 | 15.0 |
| 1800 | 39.4 | 70.9 | 30.2 | 12.7 | 14.0 | 15.2 |
| 1825 | 38.8 | 70.8 | 29.8 | 12.9 | 14.2 | 15.5 |
| 1850 | 38.3 | 70.8 | 29.4 | 13.0 | 14.4 | 15.7 |
| 1875 | 37.7 | 70.7 | 28.9 | 13.3 | 14.6 | 15.9 |
| 1900 | 37.2 | 70.7 | 28.5 | 13.4 | 14.8 | 16.1 |
| 1925 | 36.7 | 70.6 | 28.1 | 13.6 | 15.0 | 16.3 |
| 1950 | 36.2 | 70.6 | 27.8 | 13.8 | 15.2 | 16.6 |
| 1975 | 35.7 | 70.6 | 27.4 | 14.0 | 15.4 | 16.8 |
| 2000 | 35.3 | 70.6 | 27.1 | 14.2 | 15.6 | 17.0 |

TABLE 14 (16)
PLANO-CONVEX, 18 DIOPTERS

| Frequency (kc) | $t \times 10^3$ (inches) | ft (kc inches) | $t/r \times 10^3$ | d/t | | |
|-------------------|-----------------------------|-------------------|-------------------|----------|----------|----------|
| | | | | d=0.500" | d=0.550" | d=0.600" |
| 1400 | 51.4 | 72.0 | 44.3 | 9.73 | 10.7 | 11.7 |
| 1425 | 50.4 | 71.8 | 43.4 | 9.92 | 10.9 | 11.9 |
| 1450 | 49.4 | 71.6 | 42.6 | 10.1 | 11.1 | 12.1 |
| 1475 | 48.5 | 71.5 | 41.8 | 10.3 | 11.3 | 12.4 |
| 1500 | 47.6 | 71.4 | 41.1 | 10.5 | 11.6 | 12.6 |
| 1525 | 46.8 | 71.4 | 40.4 | 10.7 | 11.8 | 12.8 |
| 1550 | 46.1 | 71.4 | 39.8 | 10.8 | 11.9 | 13.0 |
| 1575 | 45.3 | 71.4 | 39.1 | 11.0 | 12.1 | 13.2 |
| 1600 | 44.6 | 71.4 | 38.5 | 11.2 | 12.3 | 13.4 |
| 1625 | 44.0 | 71.4 | 38.0 | 11.4 | 12.5 | 13.6 |
| 1650 | 43.3 | 71.4 | 37.4 | 11.5 | 12.7 | 13.8 |
| 1675 | 42.7 | 71.4 | 36.8 | 11.7 | 12.9 | 14.0 |
| 1700 | 42.0 | 71.4 | 36.2 | 11.9 | 13.1 | 14.3 |
| 1725 | 41.4 | 71.4 | 35.7 | 12.1 | 13.3 | 14.5 |
| 1750 | 40.8 | 71.4 | 35.2 | 12.2 | 13.5 | 14.7 |
| 1775 | 40.2 | 71.4 | 34.5 | 12.4 | 13.7 | 14.9 |
| 1800 | 39.6 | 71.3 | 34.2 | 12.6 | 13.9 | 15.2 |
| 1825 | 39.0 | 71.2 | 33.6 | 12.8 | 14.1 | 15.4 |
| 1850 | 38.5 | 71.2 | 33.2 | 13.0 | 14.3 | 15.6 |
| 1875 | 37.9 | 71.1 | 32.7 | 13.2 | 14.5 | 15.8 |
| 1900 | 37.4 | 71.1 | 32.3 | 13.4 | 14.7 | 16.0 |
| 1925 | 36.9 | 71.0 | 31.8 | 13.6 | 14.9 | 16.3 |
| 1950 | 36.4 | 71.0 | 31.4 | 13.7 | 15.1 | 16.5 |
| 1975 | 35.9 | 70.9 | 31.0 | 13.9 | 15.3 | 16.7 |
| 2000 | 35.4 | 70.8 | 30.5 | 14.1 | 15.5 | 16.9 |

TABLE 14 (17)
PLANO-CONVEX, 20 DIOPTERS

| Frequency (kc) | $t \times 10^3$ (inches) | ft (kc inches) | $t/r \times 10^3$ | d/t | | |
|-------------------|-----------------------------|-------------------|-------------------|-------------|-------------|-------------|
| | | | | $d=0.500''$ | $d=0.550''$ | $d=0.600''$ |
| 1400 | 51.7 | 72.4 | 49.6 | 9.67 | 10.6 | 11.6 |
| 1425 | 50.7 | 72.2 | 48.6 | 9.86 | 10.8 | 11.8 |
| 1450 | 49.7 | 72.1 | 47.6 | 10.1 | 11.1 | 12.1 |
| 1475 | 48.8 | 72.0 | 46.8 | 10.2 | 11.3 | 12.3 |
| 1500 | 47.9 | 71.9 | 45.9 | 10.4 | 11.5 | 12.5 |
| 1525 | 47.1 | 71.8 | 45.1 | 10.6 | 11.7 | 12.7 |
| 1550 | 46.3 | 71.8 | 44.4 | 10.8 | 11.9 | 13.0 |
| 1575 | 45.6 | 71.8 | 43.7 | 11.0 | 12.1 | 13.2 |
| 1600 | 44.9 | 71.8 | 43.0 | 11.1 | 12.2 | 13.4 |
| 1625 | 44.2 | 71.8 | 42.4 | 11.3 | 12.4 | 13.6 |
| 1650 | 43.6 | 71.8 | 41.8 | 11.5 | 12.6 | 13.8 |
| 1675 | 42.9 | 71.8 | 41.1 | 11.6 | 12.8 | 14.0 |
| 1700 | 42.2 | 71.8 | 40.4 | 11.8 | 13.0 | 14.2 |
| 1725 | 41.6 | 71.8 | 39.9 | 12.0 | 13.2 | 14.4 |
| 1750 | 41.0 | 71.8 | 39.3 | 12.2 | 13.4 | 14.6 |
| 1775 | 40.4 | 71.7 | 38.7 | 12.4 | 13.6 | 14.8 |
| 1800 | 39.8 | 71.6 | 38.1 | 12.6 | 13.8 | 15.1 |
| 1825 | 39.2 | 71.5 | 37.6 | 12.8 | 14.0 | 15.3 |

TABLE 14 (18)
PLANO-CONVEX, 22 DIOPTERS

| | | | | | | |
|------|------|------|------|------|------|------|
| 1400 | 52.0 | 72.8 | 54.8 | 9.62 | 10.6 | 11.5 |
| 1425 | 51.0 | 72.7 | 53.8 | 9.80 | 10.8 | 11.8 |
| 1450 | 50.0 | 72.5 | 52.7 | 10.0 | 11.0 | 12.0 |
| 1475 | 49.1 | 72.4 | 51.8 | 10.2 | 11.2 | 12.2 |
| 1500 | 48.2 | 72.3 | 50.8 | 10.4 | 11.4 | 12.4 |
| 1525 | 47.4 | 72.3 | 50.0 | 10.5 | 11.6 | 12.6 |
| 1550 | 46.6 | 72.3 | 49.1 | 10.7 | 11.8 | 12.9 |
| 1575 | 45.9 | 72.3 | 48.4 | 10.9 | 12.0 | 13.1 |
| 1600 | 45.2 | 72.3 | 47.6 | 11.1 | 12.2 | 13.3 |
| 1625 | 44.5 | 72.3 | 46.9 | 11.2 | 12.4 | 13.5 |
| 1650 | 43.8 | 72.3 | 46.2 | 11.4 | 12.6 | 13.7 |