Metric Scale (81-34-38). This scale permits measurements in the metric system over a 20mm length. The intervals between adjacent line centers are 0.1mm apart. (Fig. 3)

Protractor Scale (81-34-39. This scale permits angular measurements to be made in one degree intervals throughout 360°. See Fig. 4. Five degree intervals are indicated by a long line and fifteen degree intervals are indicated by lines extending almost to the center of the scale. Every tenth degree is numbered.

Cleaning of Lens and Scale. To remove dust and loose particles of grit from the lens or scale, use a gentle blast of air from a syringe, and then brush with a camel hair brush. Do not try to rub off grease spots or fingerprints, as vigorous rubbing will scratch highly polished surfaces. Remove the grease spots or fingerprints with a Pre-moistened Lens Cleaning Tissue or an absorbent cotton swab with alcohol.

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7X MEASURING MAGNIFIER

CAT. NO. 81-34-35

10X MEASURING MAGNIFIER

CAT. NO. 81-34-33

REFERENCE MANUAL

BAUSCH & LOMB
MEASURING MAGNIFIER

Focusing. Set the magnifier scale against a white surface such as a piece of paper, and rotate the lens mount in or out until the scale appears in sharp focus.

Measuring. The magnifier can be used for various measurements on any flat object. Wipe the surface to be examined to free it of abrasive grit. Similarly, brush off any grit which may have accumulated on the scale. Set the magnifier directly on the surface so that the scale is in contact with the material to be measured. If surrounding room light is not sufficient for clear viewing, direct light onto the surface under measurement. Keep the hands away to prevent unnecessary blocking-out of room light.

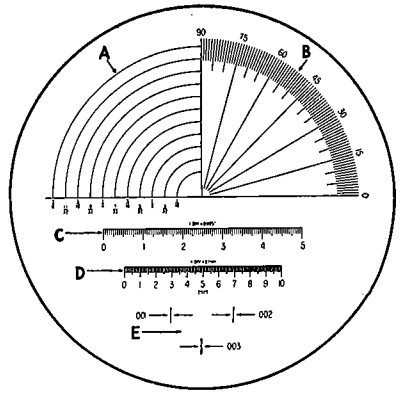

Fig. 1 General Purpose Scale

General Purpose Scale (81-34-36). This scale contains several different types of measuring patterns as follows:

a. Radii can be measured (in steps of 1/32") from 1/16" to 3/8" (see Fig. 1–A).
b. Angles can be measured in degree intervals over a 90° range (see Fig. 1–B).
c. Scale C is a decimal fraction of an inch scale, 0.500" long, divided into 0.005" intervals.
d. Scale D is a metric scale, 10mm long, engraved in 0.1mm intervals.
e. Section E, Figure 1, contains three lines whose widths are 0.001", 0.002", and 0.003". They are so labelled on the pattern surface. These are useful in comparison against scratches, cracks, etc.

Inch System Scale (81-34-37). This scale permits measurements in the inch system over a 0.750" length. The intervals between adjacent line centers are 0.005" apart. (Fig. 2)

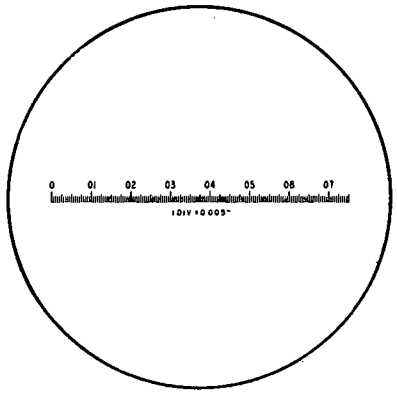

Fig. 2 Inch System Scale

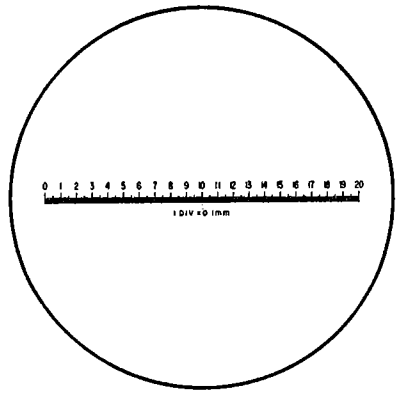

Fig. 3 Metric Scale

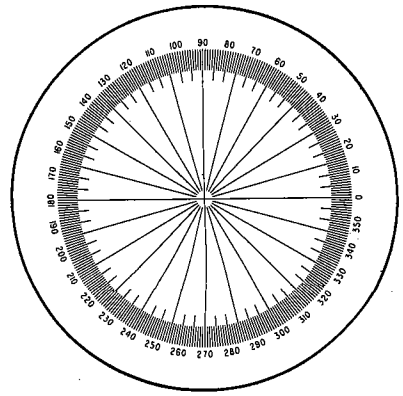

Fig. 4 Protractor Scale