## Contributors

Fuller, Watson, 1935-

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Wellcome Collection 183 Euston Road London NW1 2BE UK T +44 (0)20 7611 8722 E library@wellcomecollection.org https://wellcomecollection.org y different sets, of which one falls outside of the geometrical shadow he other falls within the shadow.

ene minges into two dis-

cently Hufford and Davis<sup>\*</sup> have applied the Lommel theory to apersubtending relatively large numbers of zones. For this they had to d the existing tables of Bessel's functions. They checked the results notographing the corresponding patterns. Figure 67 is an example of

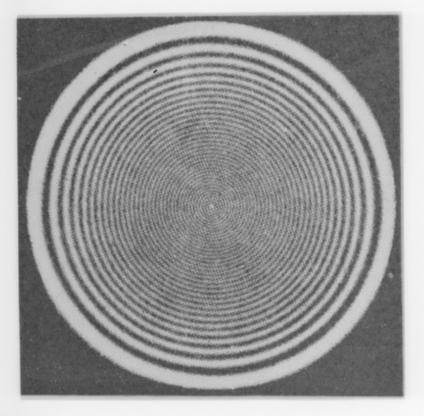


FIG. 67—Circular aperture subtending numerous zones (Hufford and Davis)

photographs obtained by them. It is to be noted that the central spotery small in diameter when the aperture is large.

The diameter of the central spot may be roughly calculated by considerthe zone system to be moved from the central position across the aperfor a distance equal to the width of what is originally the outermost e. This operation obstructs approximately half of the outermost zone and ws half of the next zone beyond to pass. Since zones of high number are rower than those of low