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# MULTIFOCAL OPHTHALMIC LENS

**ABSTRACT**

An ophthalmic lens provides a cumulative ratio of distance to near focal length that is predominantly distance correction under high illumination, nearly evenly divided between distance and near correction under moderate illumination, and favoring again distance vision correction under low level illumination. The lens is specifically adjusted to match the patient's pupil size as a function of illumination level, in the preferred embodiment by applying pupil size parameters as a function of age. This lens has the properties of matching both the distribution of near and distance focal vision correction to the type of human activity typically undertaken in various illumination conditions, as well as matching particular lens dimensions to suit the size of the pupil as a function of illumination intensity.

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