Zernike data from 18 de-identified human subjects were drawn from 74 eyes that were previously reported in:

Cheng, H., Barnett, J.K., Vilupuru, A.S., Marsack, J.D., Kasthurirangan, S., Applegate, R.A., Roorda, A. “A Population Study on Changes in Wave Aberration with Accommodation” J.Vision 4(4), 272-280 http://www.journalofvision.org/4/4/3 (2004)

The age of the 18 eyes ranges from 22 – 40. Average 26.4 +/- 4.3

No sex information was recorded for these data.

Each Zernike dataset was an average of the Zernike coefficients from 3 high quality images.

The 18 were drawn uniformly from the list of 74 subjects after ordering them by their high order rms.

The wavefronts correspond to the wavefront that gives rise to the maximum Strahl ratio. This was determined by computing the through-focus PSF and corresponding Strehl ratio in 0.1 D steps and choosing the one with the best Strehl ratio.

All Zernikes correspond to a 4 mm pupil.

Wavefront height is in microns.