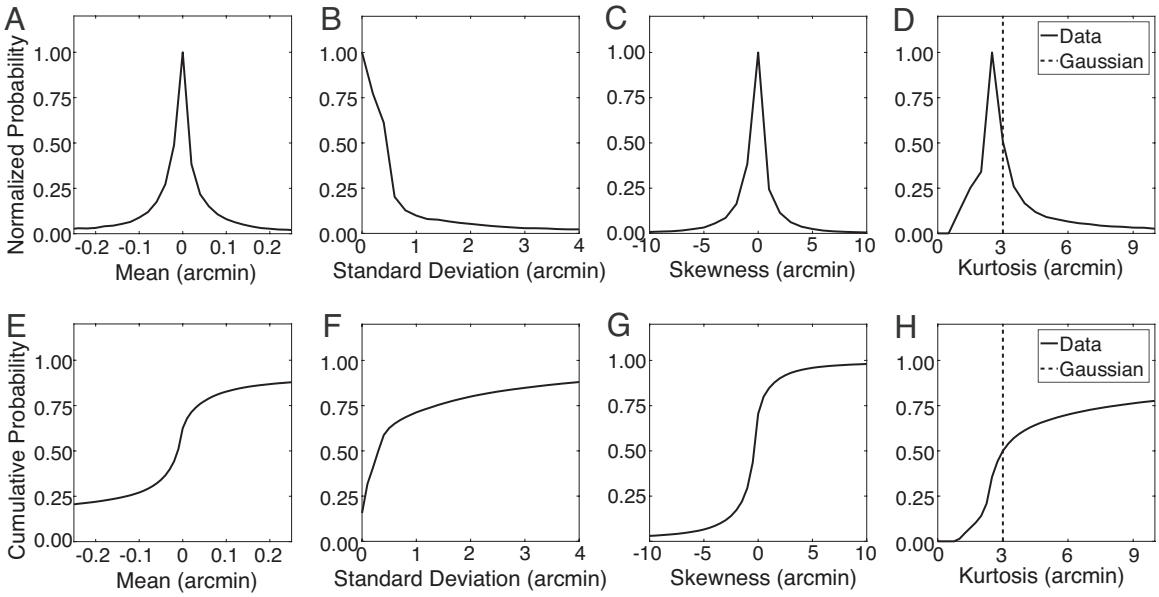

Figure S7. Distributions of within-patch statistics. **A** The distribution of within-patch mean disparity, **B** standard deviation, **C** skewness, and **D** kurtosis, aggregated across all patches in the database. The most likely median and skewness are both zero, suggesting that the within-patch distribution is frequently symmetric about zero. The median skewness is near 0.0 and the median kurtosis is near 3.0, suggesting that within each patch, the median distribution of within-patch disparities is approximately Gaussian. This result suggests that the median within-patch distribution of disparities is well-approximated as Gaussian. However, for a given distribution to be approximately Gaussian, skewness and kurtosis need to take on the appropriate values within the same patch. To check, we computed the joint histogram of within-patch skewness and kurtosis. Results confirm that the median natural image patch is a nearly planar surface with Gaussian distributed disparities.