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New sharp volume inequalities for polars of asymmetric Wulff shapes and asymmetric  $L_p$  zonotopes are presented. These reverse affine isoperimetric inequalities generalize important known lower bounds for the volume of polars of convex bodies. In particular, they have as special cases Barthe's dual volume ratio inequality and Reisner's volume product inequality for zonoids. (Received September 03, 2012)