



Left, Johari [6] flipper design at 0° sweep and aspect ratio = 4.43, and right, a 26.1° swept design with aspect ratio = 2.01. RW field research design is on the right, 34° sweep and aspect ratio = 5.0.

**Figure S2.** Comparisons of RW to Johari [6] flipper design at 0° sweep and similar aspect ratio, and a swept design with lower aspect ratio. Flows near  $Re \approx 2.7-2.8 \times 10^5$ .