Figure S2. Dependence of single-reference weighted LD amplitude on the reference population. When taking weights as allele frequency differences between the admixed population and a single reference population $R'$, the weighted LD curve $a(d)$ has expected amplitude proportional to $(\alpha F_2(A, R'') - \beta F_2(B, R''))^2$, where $R''$ is the point along the $A$--$B$ lineage at which the reference population branches. Note in particular that as $R''$ varies from $A$ to $B$, the amplitude traces out a parabola that starts at $2\alpha^3 \beta F_2(A, B)^2$, decreases to a minimum value of 0, and increases to $2\alpha^3 \beta F_2(A, B)^2$. 