



a: Baseline  
 $\Delta_d$ : 84 L2: 50.06



b:  $\rho = 0.5$   
 $\Delta_d$ : 88 L2: 31.96



c:  $\rho = 0.5$  Grayscale  
 $\Delta_d$ : 88 L2: 33.77



d: NES  
 $\Delta_d$ : 80 L2: 61.34



e: PSO  
 $\Delta_d$ : 78 L2: 299.56



f: Target Image

Figure 6: Comparison between the best PDQ Targeted-Second-Preimage collisions generated using various attack variants.