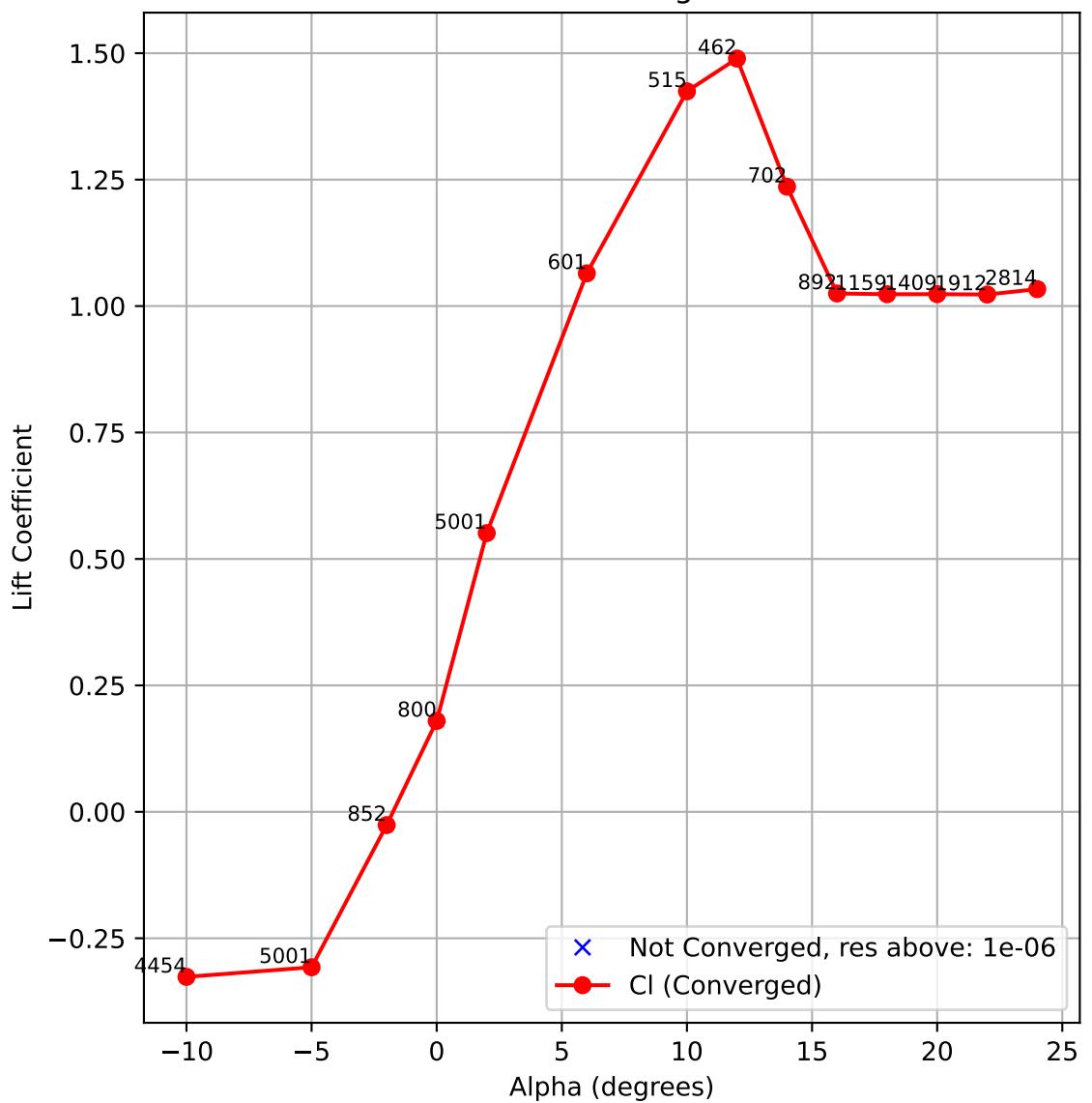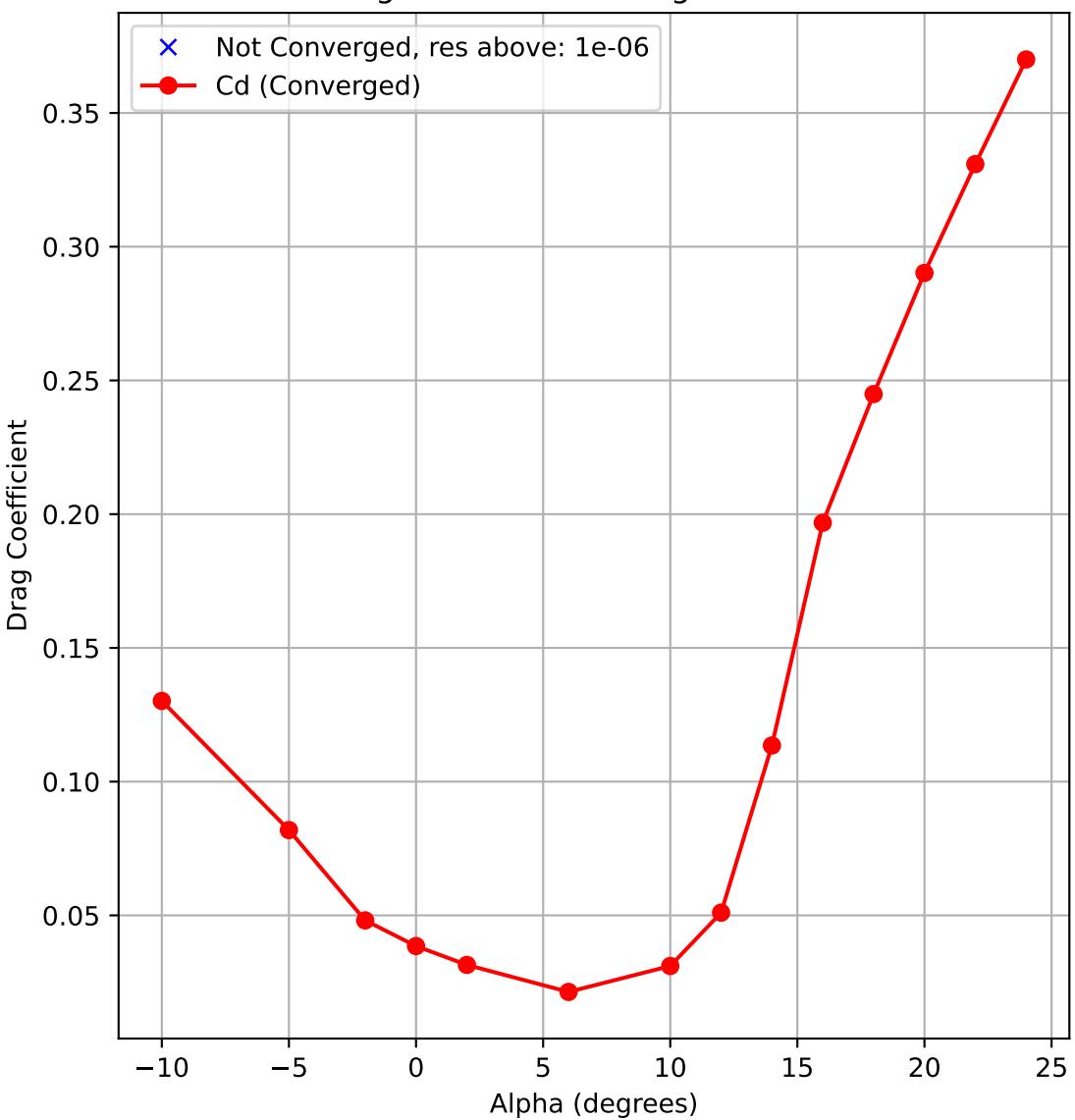Profile 10 Analysis (Re = 5e5)