Profile 5 Analysis (Re = 5e5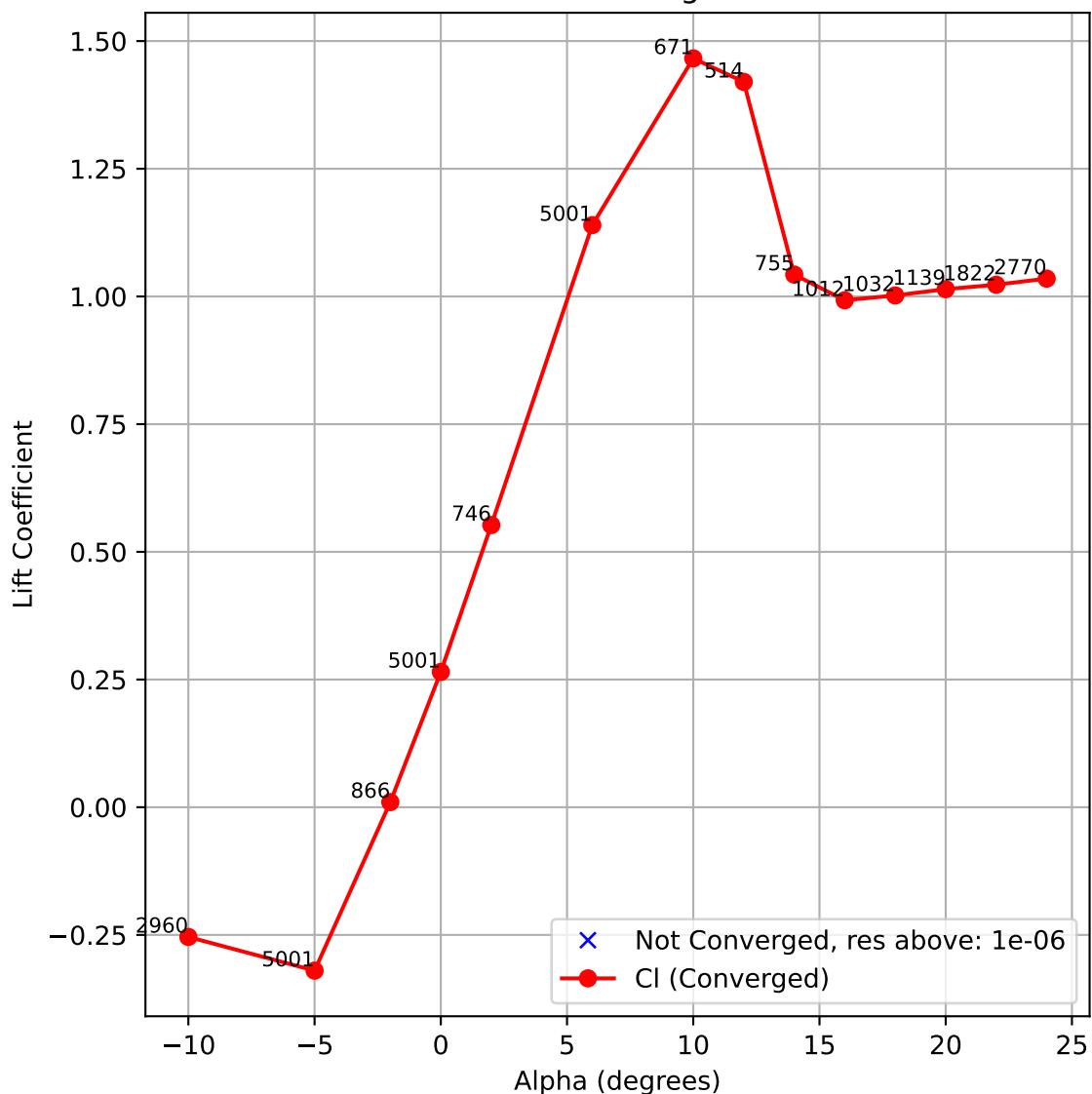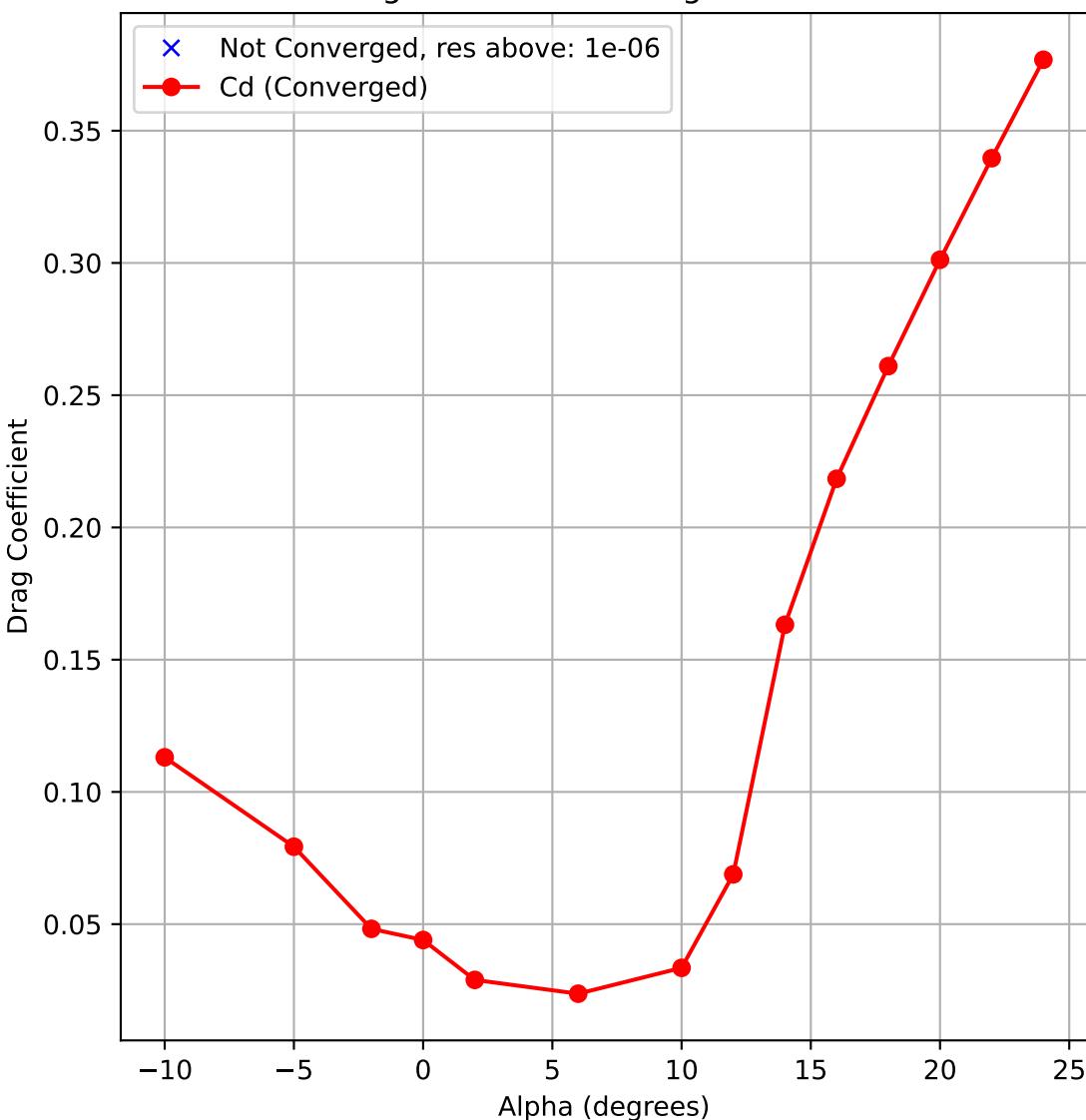)