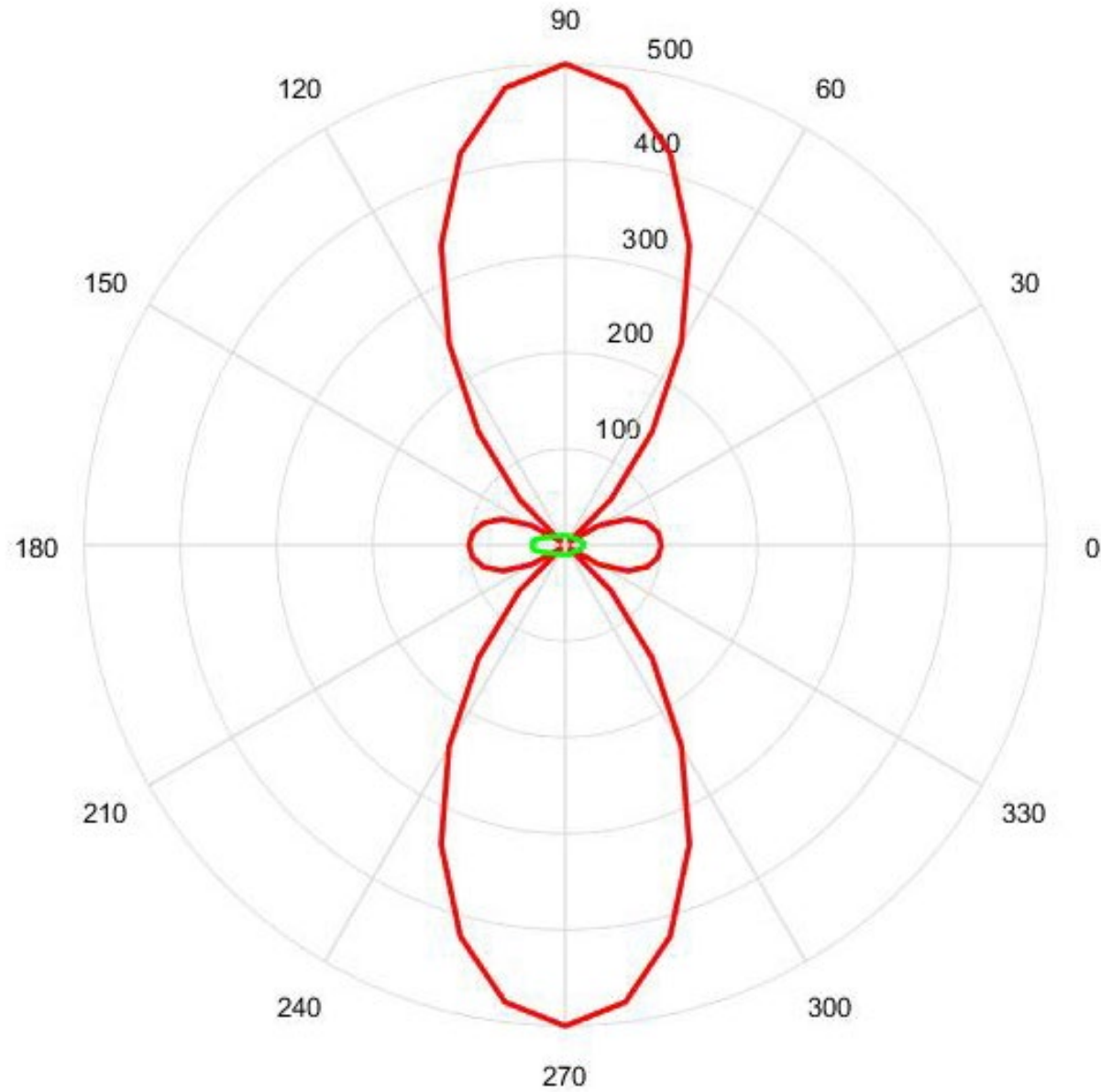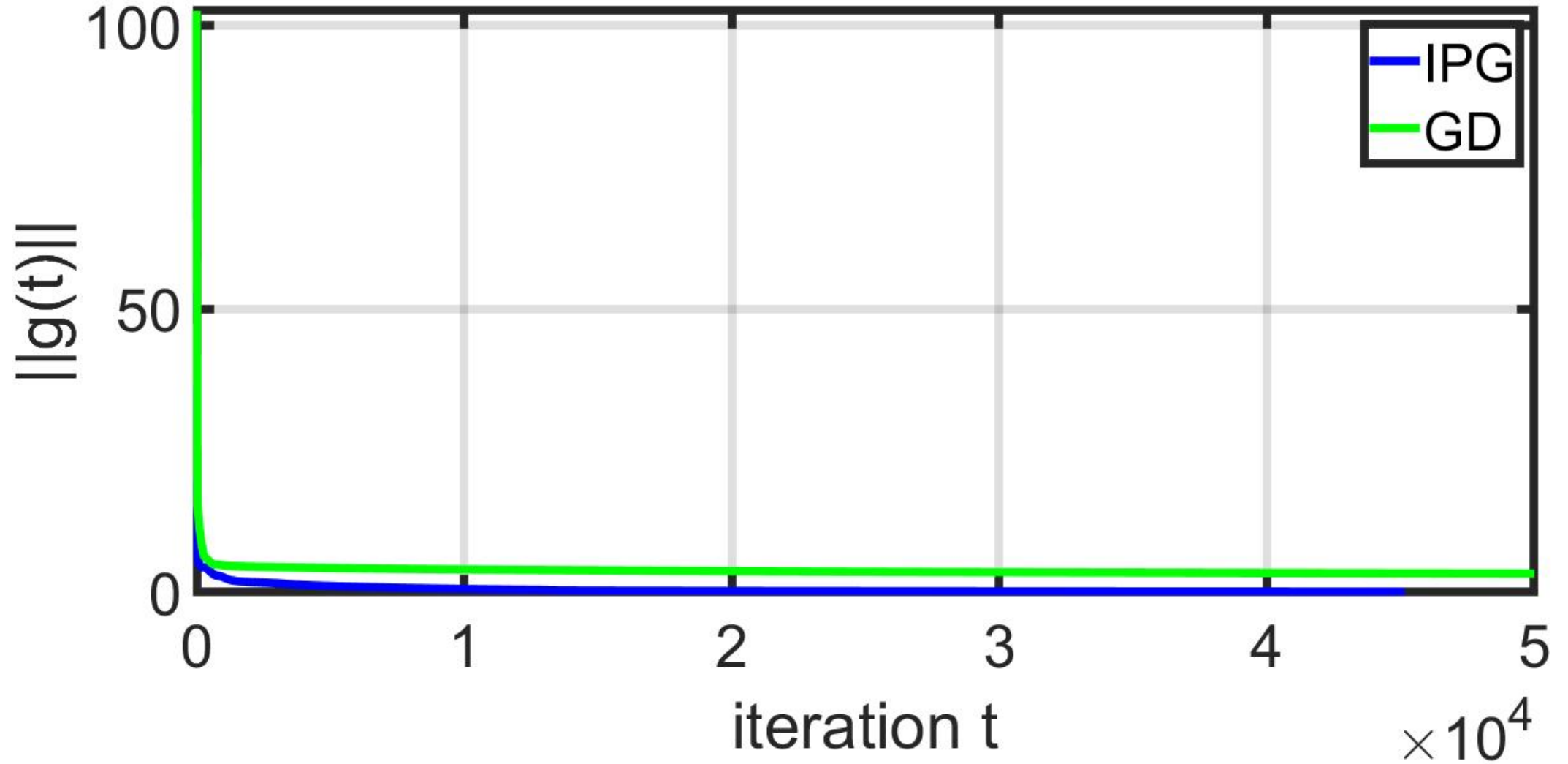# Initial and Desired Pattern
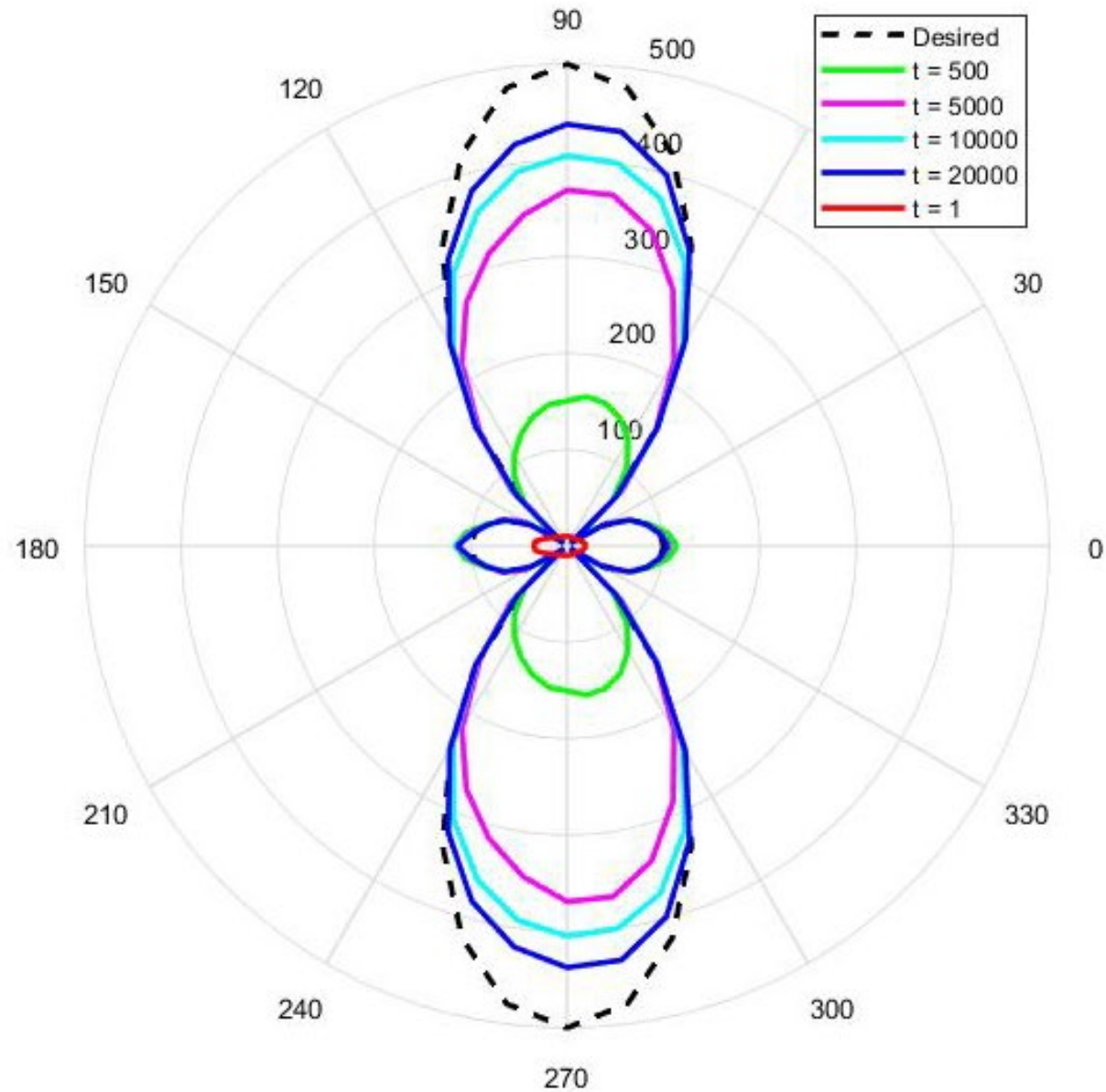
Gradient convergence

weighted cost: weight for i-th sample value f_i is $w_i = 1/f_i$

IPG: Pattern

- nulls are matched faster due to larger weights
- need a better choice of weights

GD: Pattern