Maximize ΣR_{jk} subject to

$$p_{Lj} = -\sqrt{2}u_j \Sigma G_{jk} + \Sigma(G_{jk}R_{jk} - B_{jk}I_{jk}) \quad \text{for all } n+1 \text{ buses.}$$

$$q_{Lj} = \sqrt{2}u_j \Sigma B_{jk} + \Sigma(B_{jk}R_{jk} + G_{jk}I_{jk}) \quad \text{for all } n+1 \text{ buses.}$$

$$R_{jk}^2 + I_{jk}^2 <= 2u_j u_k \quad \text{for all } m \text{ lines.}$$

$$u_0 \quad \text{known.}$$

$$p_{Lj}, q_{Lj} \quad \text{known for all non-slack buses.}$$

$$R_{jk} >= 0 \quad \text{for all } m \text{ lines.}$$