

# Impact of Adding a Point to a 2x2 Grid Design (q=2.0, p=2.0)

Initial Design  
 $\Phi_q = 2.236$



Scenario 1: Add to Center  
 $\Phi_q = 3.606$



Scenario 2: Add Close to Existing (Cluster)  
 $\Phi_q = 7.619$



Scenario 3: Add on Edge  
 $\Phi_q = 3.821$

