

Graphically we can this occurs around: At Mach 1.4: $8^{\circ} < \theta < 12^{\circ}$. Around $\theta = 8.5^{\circ}$

At Mach 1.4: $8^{\circ} < \theta < 12^{\circ}$. Around $\theta = 8.5^{\circ}$ At Mach 4: $35^{\circ} < \theta < 50^{\circ}$. Around $\theta = 37^{\circ}$