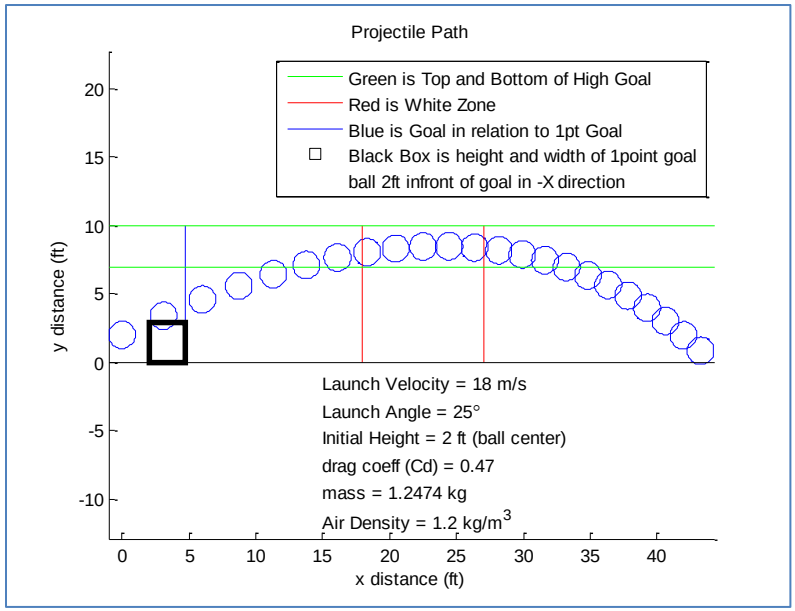
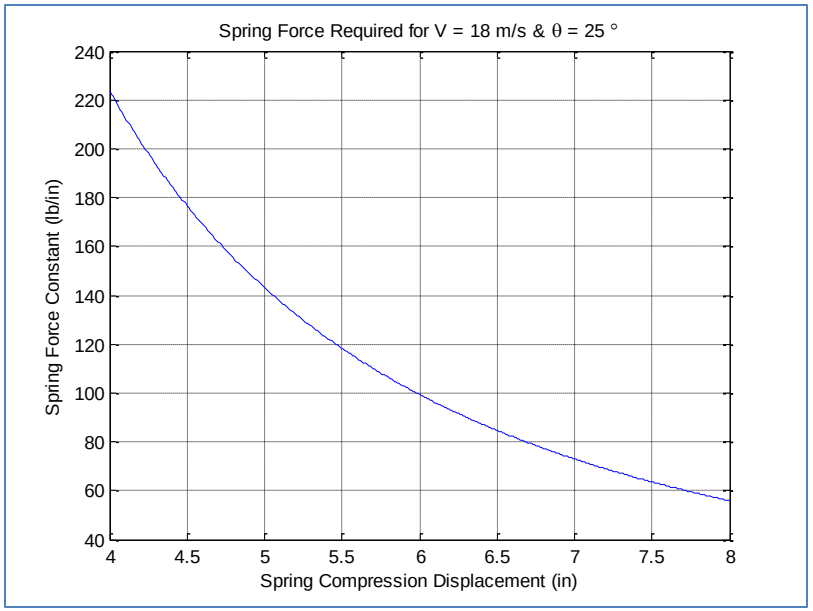
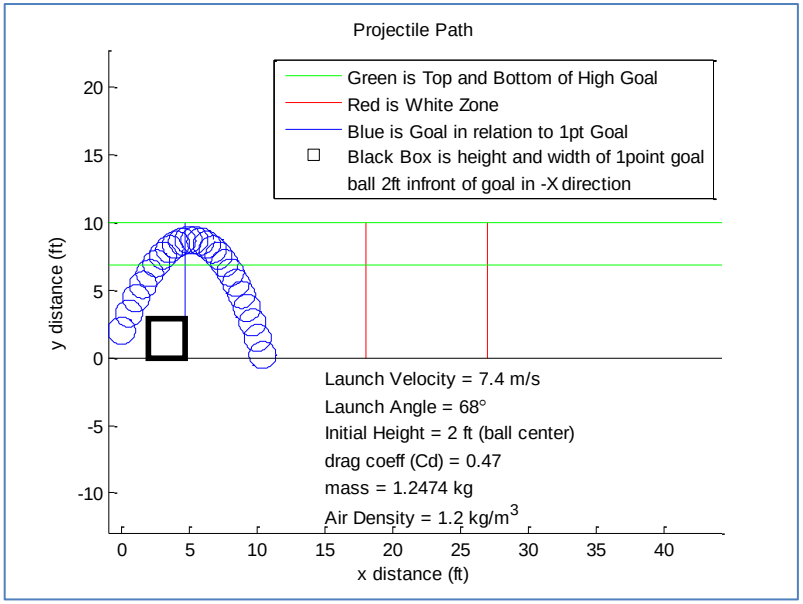
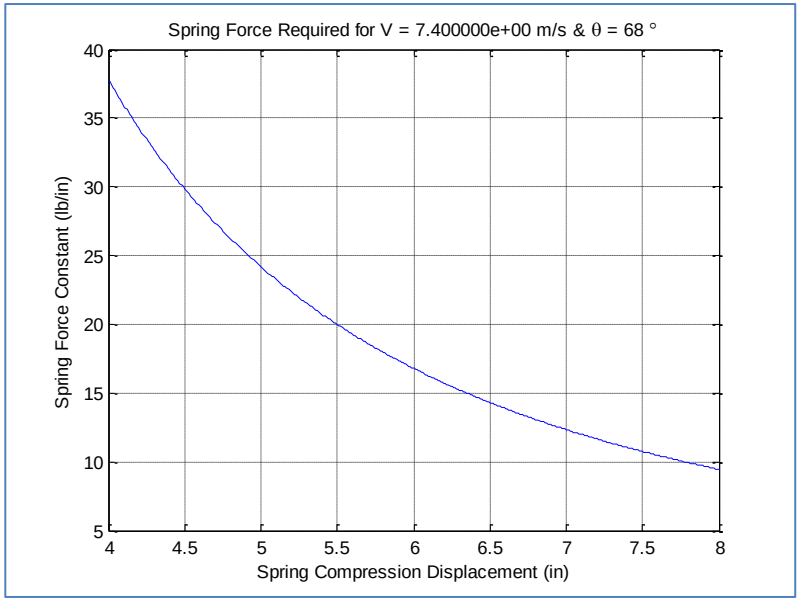

Projectile Path
Green is Top and Bottom of High Goal
Red is White Zone
Blue is Goal in relation to 1pt Goal
Black Box is height and width of 1point goal ball 2ft infront of goal in -X direction
Launch Velocity = 18 m/s
Launch Angle = 25°
Initial Height = 2 ft (ball center)
drag coeff (Cd) = 0.47
mass = 1.2474 kg
Air Density = 1.2 kg/m3
y distance (ft)
x distance (ft)


Spring Force Required for V = 18 m/s & θ = 25 °
Spring Force Constant (lb/in)
Spring Compression Displacement (in)


Projectile Path
Green is Top and Bottom of High Goal
Red is White Zone
Blue is Goal in relation to 1pt Goal
Black Box is height and width of 1point goal ball 2ft infront of goal in -X direction
Launch Velocity = 7.4 m/s
Launch Angle = 68°
Initial Height = 2 ft (ball center)
drag coeff (Cd) = 0.47
mass = 1.2474 kg
Air Density = 1.2 kg/m3
y distance (ft)
x distance (ft)


Spring Force Required for V = 7.400000e+00 m/s & θ = 68 °
Spring Force Constant (lb/in)
Spring Compression Displacement (in)