

1mph (m/s)	0.44704
initial v (mph)	36
Car mass (kg)	1000
initial v (m/s)	16.09344
Loop Radius (m)	5.285690021
Loop Radius (ft)	17.33013122
Initial KE (J)	129499.4055
PE at top (J)	103599.5244
KE at top -- by subtraction (J)	25899.8811
V at top -- based on KE above (m/s)	7.197205166
V at top -- for weightlessness -- centripetal acceleration = g (m/s)	7.197205166
g force at bottom (g)	6