

Caribou Caffeinator

LOC Precision HyperLoc 835

Rocket Data:

LENGTH: 6.2 FT, DIAMETER: 4.0 IN

Black Powder 11 psi: 15" = 1 G / 12" = .8 G

WEIGHT 5.2 LBS

CG: 39.52 IN, CP: 58.76 IN, MARGIN: 4.81 OVERSTABLE

WEIGHT W ENGINES 6.77 LBS

CG: 45.54 IN., CP: 58.76 IN., MARGIN: 3.31 OVERSTABLE

Motor:

54 MM TO 38 MM ADAPTER - 5 GRAIN - **I297 SM BURN** = 1.8 SEC

Recovery:

DUAL DEPLOY, "RAVEN" FEATHERWEIGHT ALTIMETER, ROCKET HUNTER

Max data values (expected):

MAXIMUM ACCELERATION: VERTICAL (Y): 368.674 FT./S/S

MAXIMUM VELOCITY: VERTICAL (Y): 501.0324 FT/S

MAXIMUM ALTITUDE: 2607 FT

DEPLOY MAIN ALTITUDE: 800 FT

Time data (expected):

TIME TO BURNOUT: 1.94 SEC.

TIME TO APOGEE: 12.19 SEC.

Launch guide data (expected):

LAUNCH GUIDE LENGTH: 72 IN.

MINIMUM VELOCITY FOR STABLE FLIGHT: 44 FT/S

MINIMUM VELOCITY FOR STABLE FLIGHT REACHED AT: 34.35 IN.

VELOCITY AT LAUNCH GUIDE DEPARTURE: 63.46 FT/S

THE LAUNCH GUIDE WAS CLEARED AT : 0.19 SECONDS

