

Caribou Air Start

LOC Ultimate with 20" Extension and E Bay

Rocket Data:

LENGTH: 6.15 FT, DIAMETER: 4 IN

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

WEIGHT 4.98 LBS

CG: 40.81 IN, CP: 63.30 IN, MARGIN: 5.62 OVERSTABLE

WEIGHT W ENGINES 6.8 LBS

CG: 48.25 IN., CP: 63.29 IN., MARGIN: 3.76 OVERSTABLE

Motors:

29 MM - 5 GRAIN - H160 SKIDMARK(R) BURN = 1.38 SEC

AIR START (2) 29MM - 5 GRAIN H140 CLASSIC BURN = 2.05 SEC

Recovery:

DUAL DEPLOY, ROCKETMAN CHUTES, "RAVEN" FEATHERWEIGHT ALTIMETER, ROCKET HUNTER

Max data values (expected):

MAXIMUM ACCELERATION:VERTICAL (Y): 583.07 FT./S/S

MAXIMUM VELOCITY:VERTICAL (Y): 642.05 FT/S

MAXIMUM ALTITUDE: 4011 FT.

DEPLOY MAIN ALTITUDE: 500 FT

Time data (expected):

TIME TO BURNOUT: 3.4 SEC.

TIME TO APOGEE: 15.3 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: 78.7 IN.

VELOCITY AT LAUNCH GUIDE DEPARTURE: 42.2 FT/S

THE LAUNCH GUIDE WAS CLEARED AT : 0.29 SECONDS

