

## 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 6.1 LBS

CG: 46.20 IN., CP: 63.30 IN., MARGIN: 4.28 OVERSTABLE

#### Motors:

29 MM - 3 GRAIN - **G131 SMOKEY SAM®** BURN = 3.7 SEC

**AIR START** (2) 29MM - 2 GRAIN **G57 CLASSIC** BURN = 1.9 SEC

#### Recovery:

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

#### Max data values (expected):

MAXIMUM ACCELERATION: VERTICAL (Y): 583.0 Ft./s/s

MAXIMUM VELOCITY: VERTICAL (Y): 299.8 FT/S

MAXIMUM ALTITUDE: 1572 Ft.

DEPLOY MAIN ALTITUDE: 500 Ft

#### Time data (expected):

TIME TO BURNOUT: 3.1 SEC.

TIME TO APOGEE: 10.8 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: 93 IN.

VELOCITY AT LAUNCH GUIDE DEPARTURE: 38.6 FT/S

THE LAUNCH GUIDE WAS CLEARED AT : 0.33 SECONDS

