

Bioenvironmental and Structural Systems Lab
Fan Description FormProject Number: 95046 Series/Test: / Test Date: February 13, 1995 File Name: **Fan**Make: Canarm
Model #: PLF36-M*
Serial #: -
Manufacturer: Canarm
Blade Size: 36"
Orifice Dia.: 37"**Motor**Make: Dayton
Model #: 4M250
Serial #: -
H.P.: 1/2
Amps: 6.0/3.0
Volts: 115/230**Blade CP35**Number: 3
Shape: propeller
Material: galv. steel
Pitch: -
Clearance: .5"
Hub Diameter: -RPM: 850S.F.: 1.25
Drive Pulley Dia.: direct
Axle Pulley Dia.: drive
Center Spacing: -**Shutter**Material: plastic
Number Doors: 10
Number Rows: 2
Door Length: 18.3"
Location: intake**Housing**Material: plastic
Intake Area: 39" x 39"
Discharge Area: 37" dia.
Depth: 29.5" top
26" bottom**Guards**Description: wire
Spacing: 2" concentric
Location: exhaust**Other Attachments**Discharge cone

TEST RESULTS

CANARM PLF36-M

	Static Pressure	Speed	Airflow	Efficiency
	<u>in. water</u>	<u>rpm</u>	<u>cfm</u>	<u>cfm/Watt</u>
Test: 95046	0.00	822	12020	19.5
Fan description:	0.05	817	11140	17.3
36" direct drive, 1/2 hp Dayton 4M250	0.10	813	10180	15.5
motor, plastic housing, plastic shutter,	0.15	810	9100	13.6
guard and discharge cone	0.20	810	7570	11.3
	0.25	804	5080	7.4
