

# GLOSSAMER CONDOR

$$W/S = 0.275 \text{ lbs/sq ft} = 1.18 \text{ Kg/sq meter}$$

$$\text{CRUISE SPEED} = 10 \text{ mph} \equiv 16 \text{ Km/hr} \equiv 158 \text{ meters/sec}$$

$$\text{POWER REQ} = 0.43 \text{ HP} \equiv 320 \text{ Watts}$$

## WEIGHTS:

$$\text{EMPTY} : 70 \text{ lbs (32 kg)} \quad \frac{\text{EMPTY}}{\text{AUW}} = 33\% \quad \left( \begin{array}{l} \text{Pilot wt} \\ 141 \text{ lbs} \end{array} \right)$$

$$\text{All. UP} : 211 \text{ lbs (95.5 kg)}$$

$$\text{WING AREA} = 720 \text{ sq ft} \quad (67 \text{ sq meters})$$

$$\text{STABILISER AREA} = 93 \text{ sq ft} \quad (8.6 \text{ sq meters})$$

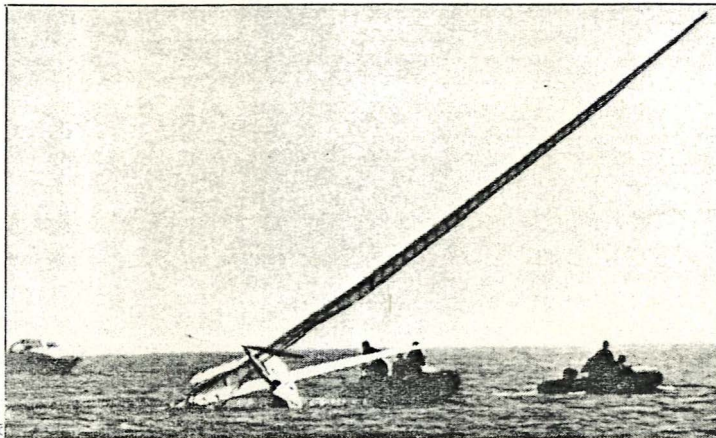
$$\text{WING SPAN} \sim 95 \text{ ft} \sim 29 \text{ meters}$$

$$R = \frac{b^2}{S} = 12.8 \quad (\text{Say } 13)$$

# Daedalus splashes down to a new record

weeks of  
suitable  
plane, built  
ts Institute  
d flown by  
champion,  
a record  
red flight.  
Kanellos  
d off from  
n Daedalus  
takeoff run.  
a 34-metre  
ghs only 32  
poulos flew  
metres to the  
antorini in  
minutes. A  
three knots

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to a sudden end. As  
ned the plane into the  
d the plane's tail boom,  
s



*The plane ditches ten metres from dry land. But the record was shattered by 60 kilometres*

beach. Kanellopoulos swam and waded ashore, and crews in boats accompanying him recovered most of the plane. The trip more than doubles the previous record for

human-powered flight, which was set by the same team of designers in January 1987, flying a prototype craft, the Light Eagle, around a circular path at Edwards Air Force Base in California.

The team, headed by John S. Langford, chose the flight route to recreate the mythical flight of the Greek engineer of legend, Daedalus (*New Scientist*, 31 March, p 21).

The mythical Daedalus flew on wings of wax and feathers. The modern Daedalus flew on wings made of the strongest and lightest materials available, including carbon-fibre epoxy composites, Kevlar plastic fibre, polystyrene foam, steel piano wire and balsa

wood, with a skin of polyester plastic. Gearboxes, landing gear, and cranks in the pedal-powered craft were made of aluminium. □