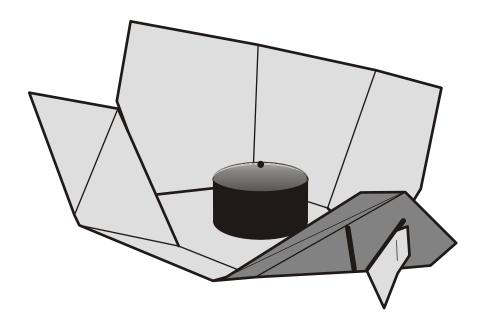
#### The Modified CooKit

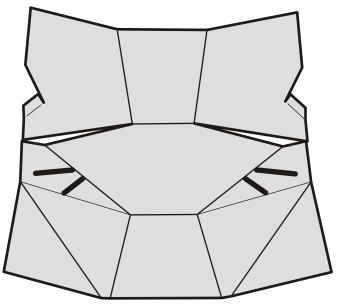


The CooKit solar cooker, developed by Solar Cookers International in 1994, is the most popular cardboard solar cooker in the world today. It has been around for many years and the cooker's design has remained very much the same as when it was first introduced. Obviously the design has worked well and it will continue to serve its intended purpose, which is to provide an easy and low cost solution for everyone to cook using the abundant sunshine that is available to us.

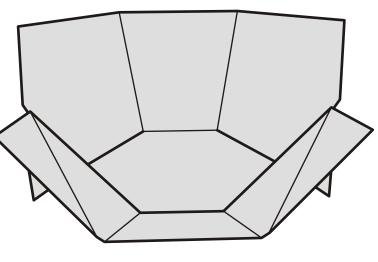
Several improvement ideas for the CooKit came to me recently. Firstly, the size of the cooker can be reduced so that more cookers can be made from the same amount of construction material. Secondly, the panel locking feature can be relocated so that the two sides of the front reflector can be tilted to reflect more sunlight towards the desired direction.

The modified CooKit is structurally more robust. It can be positioned upside down to cook when the sun angle is low. The cooking pot receives more reflected sunlight under the normal operating range of the cooker. The modified CooKit can be folded down into a small package for easy transportation and storage just like the original design.

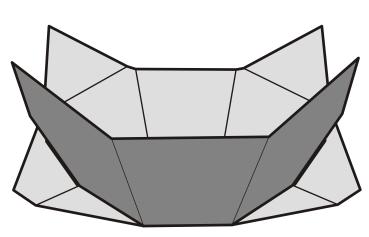
The following pages provide the plans and diagrams for the construction and use of the modified CooKit which I hope will be useful and practical.



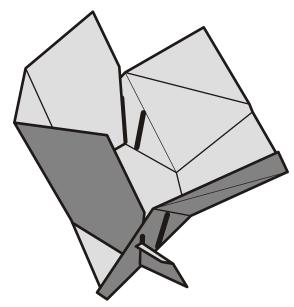
Modified-CooKit unfolded



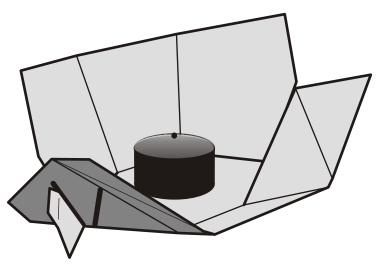
Modified-CooKit front view



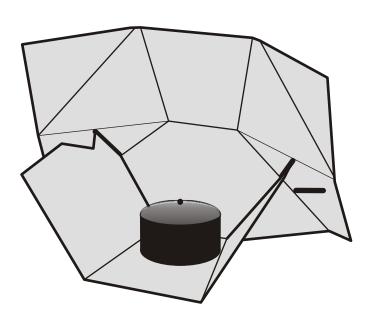
Modified-CooKit back view



Modified-CooKit side view

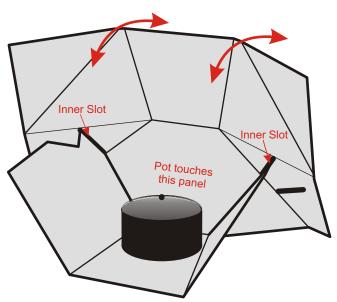


Normal cooking position



Low sun-angle cooking position

# Diagrams below illustrate the best cooker's configurations and pot's positions for optimum cooking at different sun angles



#### Low sun-angle (30° - 50°)

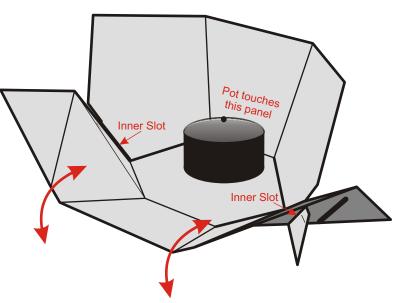
(Pot touches the vertical panel.

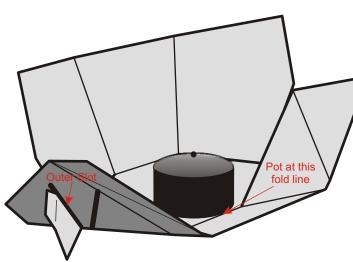
The panels at the top can be adjusted to better capture the sunlight)

## Medium sun-angle (50° - 70°)

(Pot touches the vertical panel.

The panels at the front can be adjusted to better capture the sunlight)





### High sun-angle (70° - 90°)

(Pot touches the front edge of the base. Cooker is locked in the two outer slots)

