

## SIZE OS AND DISTANCE TO THE SUN

Data

Earth completes one cycle round sun in 365.25 days.

The Earths circumference is 24887.64 miles

The Earths radius is 3963 miles

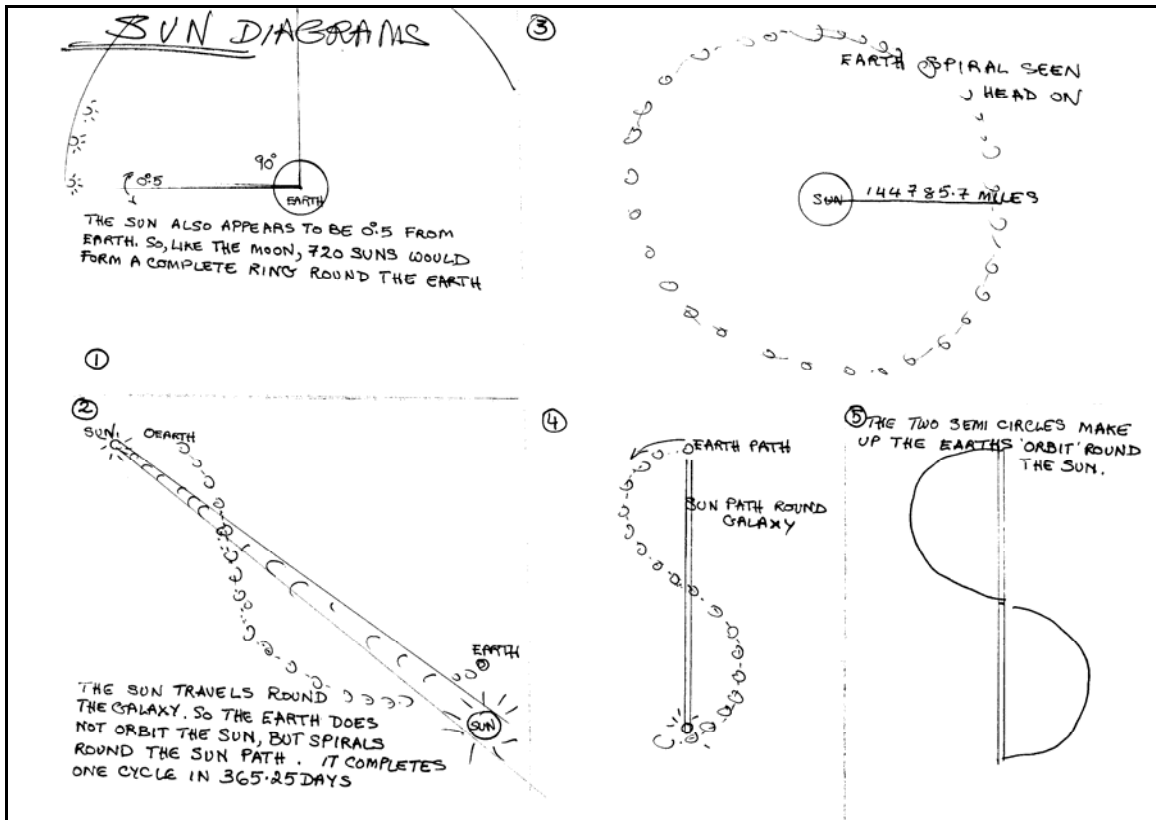
A day can be described as 24887.64 miles

A year can be described as  $24887.64 \times 365.25 = 9,090,210.5$  miles (see diagram 2)

There would be no need to account for the suns journey around the galaxy as this is not relative to the earth/ sun cycle.

The diameter of a circle 9,090,210.5 miles is 2,894,971.4 miles (see diagram 5).

Therefore the radius is 1447485.7 miles. Since the apparent size of the sun is  $0^\circ.5$ , the circle of 9,090,210.5 miles  $\div 720$  is the diameter of the sun. This is 12,265.29 miles circumference therefore 39,643.41 miles.



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