

SMAP – Kepler tables

TABLE 1 – Sun to Asteroid Distance

Year Number	Sun-to-Asteroid Distance (cm on paper)	Sun-to-Asteroid Distance (in AU)
0		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		

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TABLE 2 – Average Asteroid Speed

Asteroid Moved From...	Area Swept (# of squares)	Distance Traveled ⁽¹⁾ (cm)	Distance Traveled ⁽²⁾ (in miles)	Average Speed ⁽³⁾ (mi/h)
0 – 1				
1 – 2				
2 – 3				
3 – 4				
4 – 5				
5 – 6				
6 – 7				
7 – 8				
8 – 9				
9 – 10				
10 – 11				
11 – 0 (12)				

(1) Distance along each arc (measured with the string).

(2) Multiply distance traveled (in cm) x 65,100,000 cm per mile.

(3) Divide distance (in miles) by hours in the year.