

30/230

LBL SVSM
 LBL SMSV
 LBL Q1
 FLX 4
 RS SATPPMOONPP
 PROMPT
 STO Q4 Mx
 RDN
 STO Q3 My
 RDN
 STO Q2 Sx
 RDN
 STO Q1 Sy
 VENUSPP
 PROMPT
 STO Q6 Vx
 RDN
 STO Q5 Vy
 LBL Q2
 FLX 1
 RCL Q3
 RCL Q1
 - My-Sy
 RCL Q4
 25 RCL Q2
 - Mx-Sx
 R-P
 X<>Y
 30 20
 CHS
 360
 MOD
 34 STO Q7 SM



35 RCL Q5
 RCL Q1 Vy-Sy
 RCL Q6 Vx-Sx
 RCL Q2
 40 R-P
 X<>Y
 90
 45 CHS
 360
 MOD
 STO Q8 SV
 SV=
 ARCL Q8
 -H SM=
 ARCL Q7
 PROMPT
 V-M=
 55 RCL Q8
 RCL Q7
 SIN
 ASIN
 ARCL X
 60 PROMPT
 STO Q1
 63 END

327° Saturne-Venus

25.04.2025 TT-UT = 69.75 s
 109.37 mm | 235 mm | 320° V-M = +6°

UT REF = 02:00 N 40°00.0' / E 035°00.0' UT = 02^h00^m00.05

SM θ_{geoc} : -9.3° SATURN 5.957/98.8 MOON 6.947/98.4 VENUS 9.595/96.9

Lat/Long	UT	θ	SV	SM	V-M	S	V
N 40°00' / E 030	02 ^h 20 ^m	-9.3°	332.4	338.0	-5.6	5.967/98.8	9.601/96.9
N 45 / E 30	02 ^h 20 ^m	-7.1	332.4	326.8	+5.6	5.201/99.2	8.969/97.7
N 35 / E 30	02:20	-11.5	338.3	327.8	+1.0	6.693/98.2	10.162/96.1
N 34 / E 30	02:20	-11.9	328.8	321.1	7.7	6.833/98.1	10.265/95.9
	02:00	-15.9	327.3	316.9	10.4	2.831/95.3	6.178/93.0
	02:17	-12.5	325.5	326.4	-0.9	6.226/97.7	9.650/95.5
	02:15	-12.9	327.3	317.2	10.1	5.822/97.4	9.241/95.2
			327.2	321.2	+6°		

Final result

25 APR 2025

TT-UT = +69.7s

UT	UT	UT	UT

N34/E30/UT 02:15

$\theta -12.9^\circ$ S 5.822/97.4 \oplus 6.693/96.7 V 9.241/95.2
 SV 327.2 SM 321.2 V-M = +6°

N39/E30/UT 02:15

$\theta -10.6^\circ$ S 5.173/97.9 \oplus 6.093/97.3 V 8.761/95.9
 SV 330.9 SM 326.9 V-M = +4.0

Influence of Latitude →

$\frac{\partial SV}{\partial Lat} = \frac{+3.7^\circ}{5^\circ Lat}$ $\frac{\partial SM}{\partial LAT} = \frac{+5.7^\circ}{5^\circ Lat}$

N34°/E35°/UT 02:15

$\theta -9.1^\circ$ S 9.863/100.3 \oplus 10.761/99.6 V 13.330/98.1
 SV 327.6 SM 322.1 V-M = 5.5

Influence of Longitude →

$\frac{\partial SV}{\partial Lon} = \frac{+0.4^\circ}{5^\circ Lon}$ $\frac{\partial SM}{\partial Lon} = \frac{+0.9^\circ}{5^\circ Lon}$

N34°/E30°/UT 02:25

$\theta -11.0^\circ$ S 7.846/98.8 \oplus 8.685/98.0 V 11.289/96.6
 SV 327.4 SM 316.4 V-M = +11.1°

Influence of UT

$\frac{\partial SV}{\partial UT} = \frac{0.2^\circ}{10 \text{ min UT}}$ $\frac{\partial SM}{\partial UT} = \frac{-4.8^\circ}{10 \text{ min UT}}$

Au Roc Saint Luc
 le 27 Avril 2025

Antoine R. "Kermit" Couëtte

