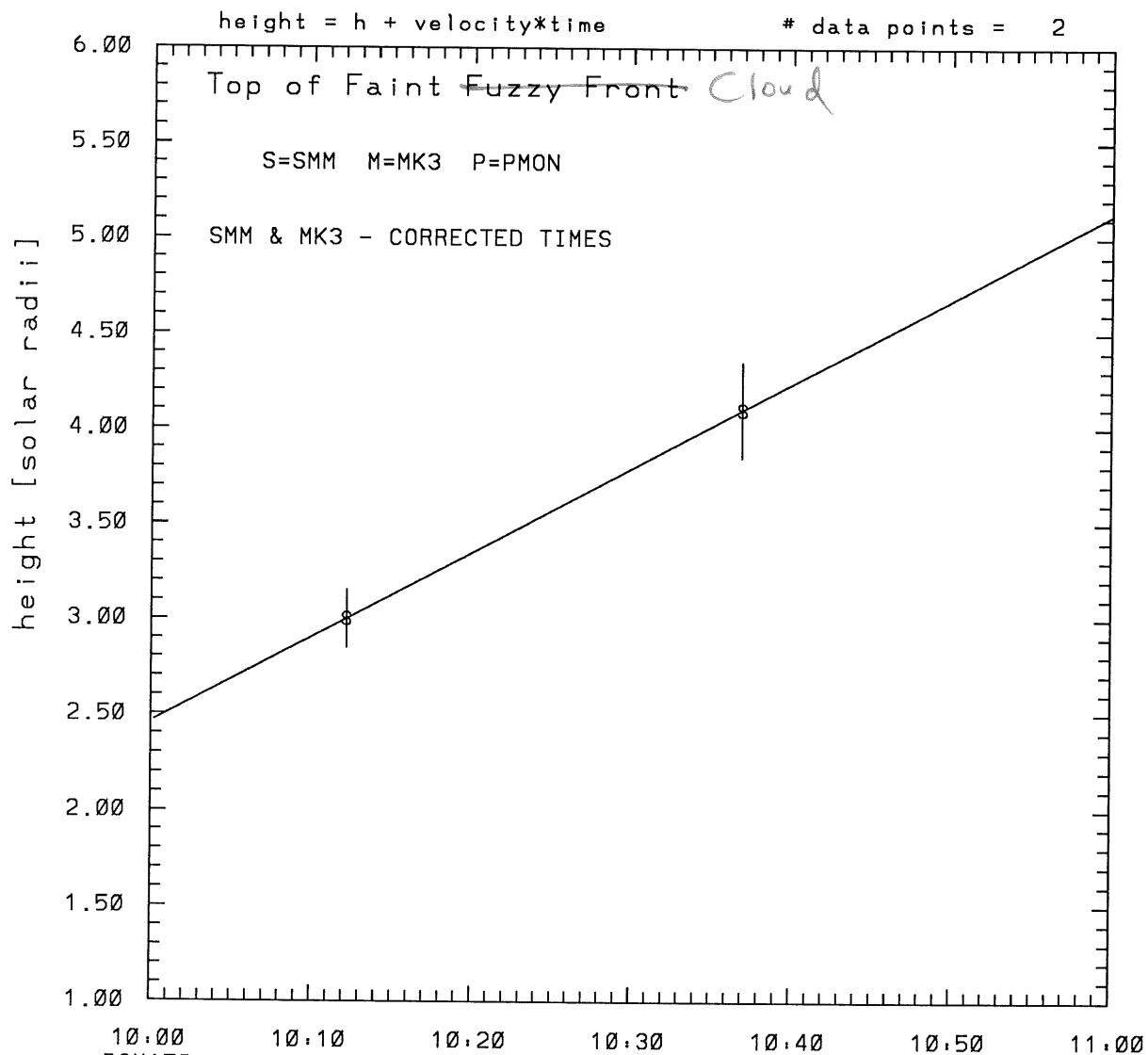




SMM C/P 1988 DOY158 260 +/- 0 degrees



tstart=DOY158 9:29 +/- 0.0 [min.]
radial velocity= 515. +/- 0. [km/sec]

This is a 1 order run

INPUT:

year	doy	time	radii	radius	error in angle	error in angle	datatype
1988	158	10:12:12	3.00	+/- 0.15	260.0	+/- 1.0	SMM
1988	158	10:36:58	4.10	+/- 0.25	260.0	+/- 1.0	SMM

Structure being measured:

Top of Faint Fuzzy Front *Cloud*

OUTPUT:

START TIME:

Event began at t = 0 + -0.328E+02 +/- 0.000E+00 [minutes]

In more convenient units:

Event began at DOY 158 9:29 +/- 0.000E+00 [minutes]

Origin defined at DOY158 10: 0

RADIAL INFORMATION:

RADIAL VELOCITY = 515. +/- 0. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.246E+01 +/- 0.142E-05 [solar radii]
c(2) = 0.444E-01 +/- 0.655E-07 [radii/min]
c(2) = 0.515E+03 +/- 0.759E-03 [km/sec]
c(3) = 0.000E+00 +/- 0.000E+00 [radii/min**2]
c(3) = 0.000E+00 +/- 0.000E+00 [km/sec**2]

ANGULAR INFORMATION:

ANGULAR VELOCITY = 0.0000E+00 +/- 0.0000E+00[radians/sec]

The computed ANGULAR coefficients and errors FROM NLLST2 are:

a(1) = 260. +/- 0. [degrees]
a(2) = 0.000E+00 +/- 0.000E+00 [degrees/min]
a(2) = 0.000E+00 +/- 0.000E+00 [rad/sec]
a(3) = 0.000E+00 +/- 0.000E+00 [degrees/min**2]
a(3) = 0.000E+00 +/- 0.000E+00 [rad/sec**2]

THE TANGENTIAL AND TOTAL VELOCITIES AT EACH DATA POINT ARE:

The TANGENTIAL velocity at 10:12 = 0. km/sec

The TOTAL velocity at 10:12 = 515. km/sec

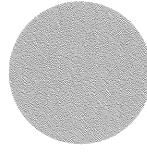
The TANGENTIAL velocity at 10:36 = 0. km/sec

The TOTAL velocity at 10:36 = 515. km/sec

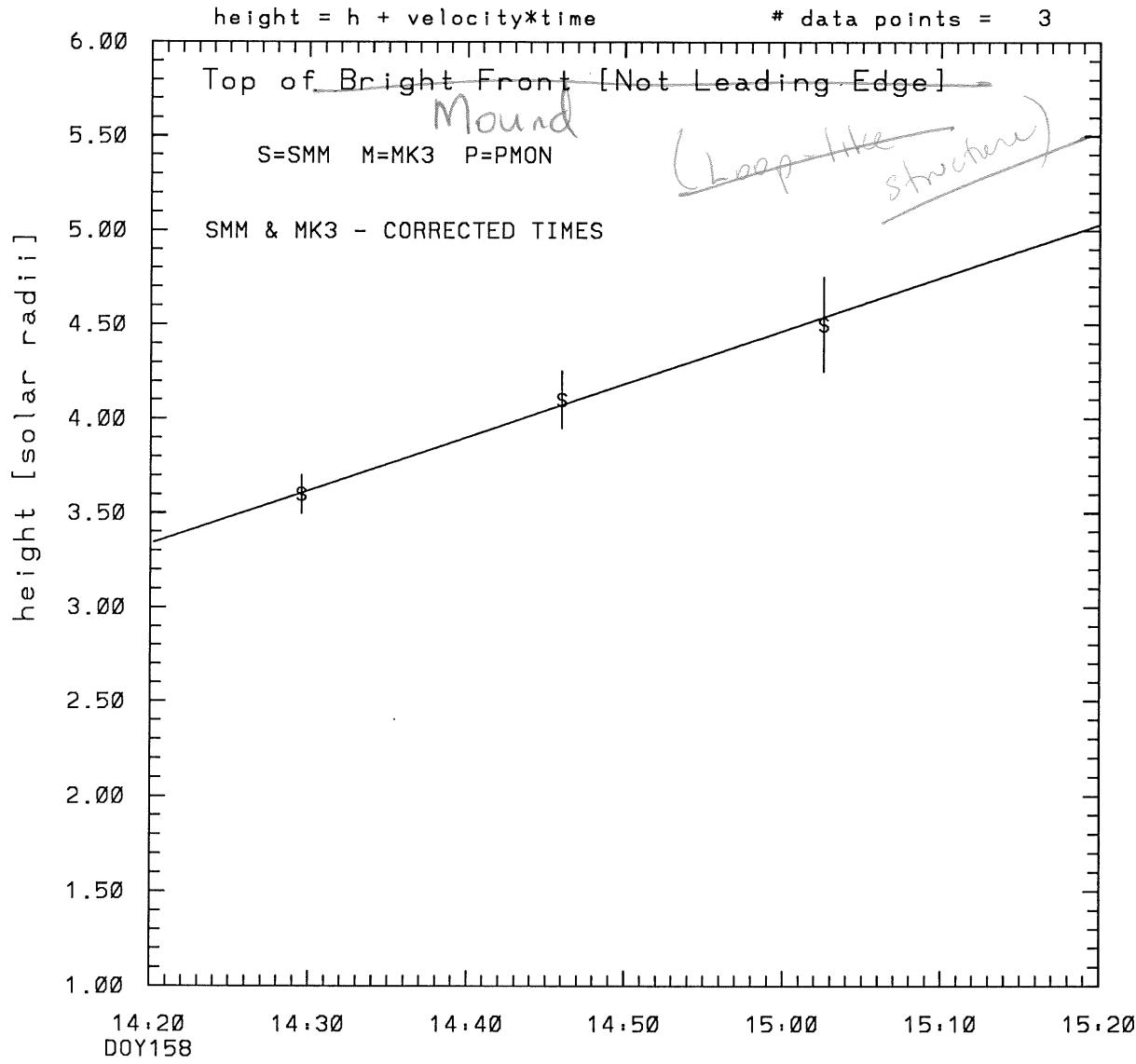
The following info is for estimating goodness of the fit

Number data points = number of coefficients. No error analysis is possible.

Correlation coefficient is not computable!

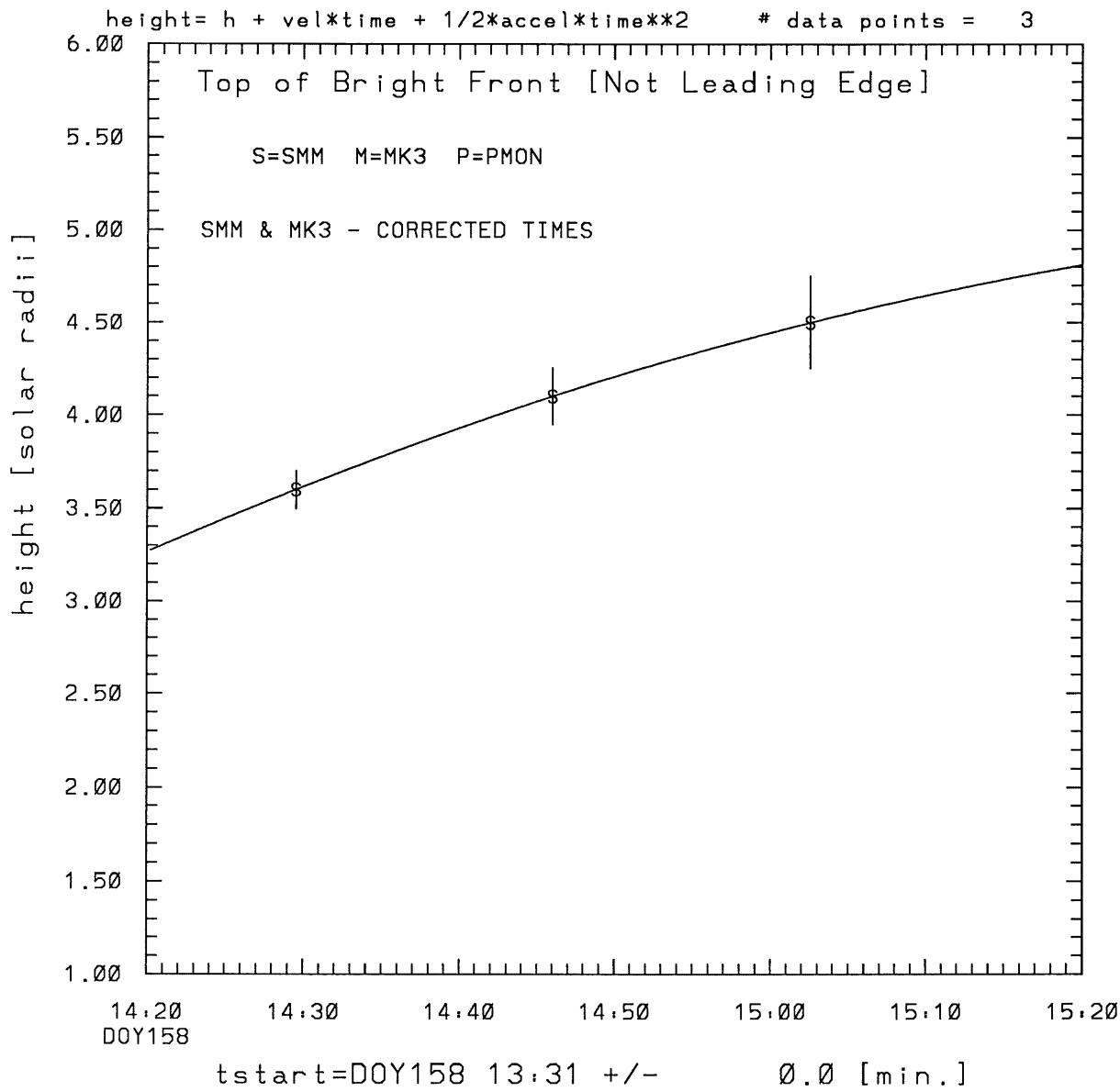


SMM C/P 1988 DOY158 250 +/- 0 degrees



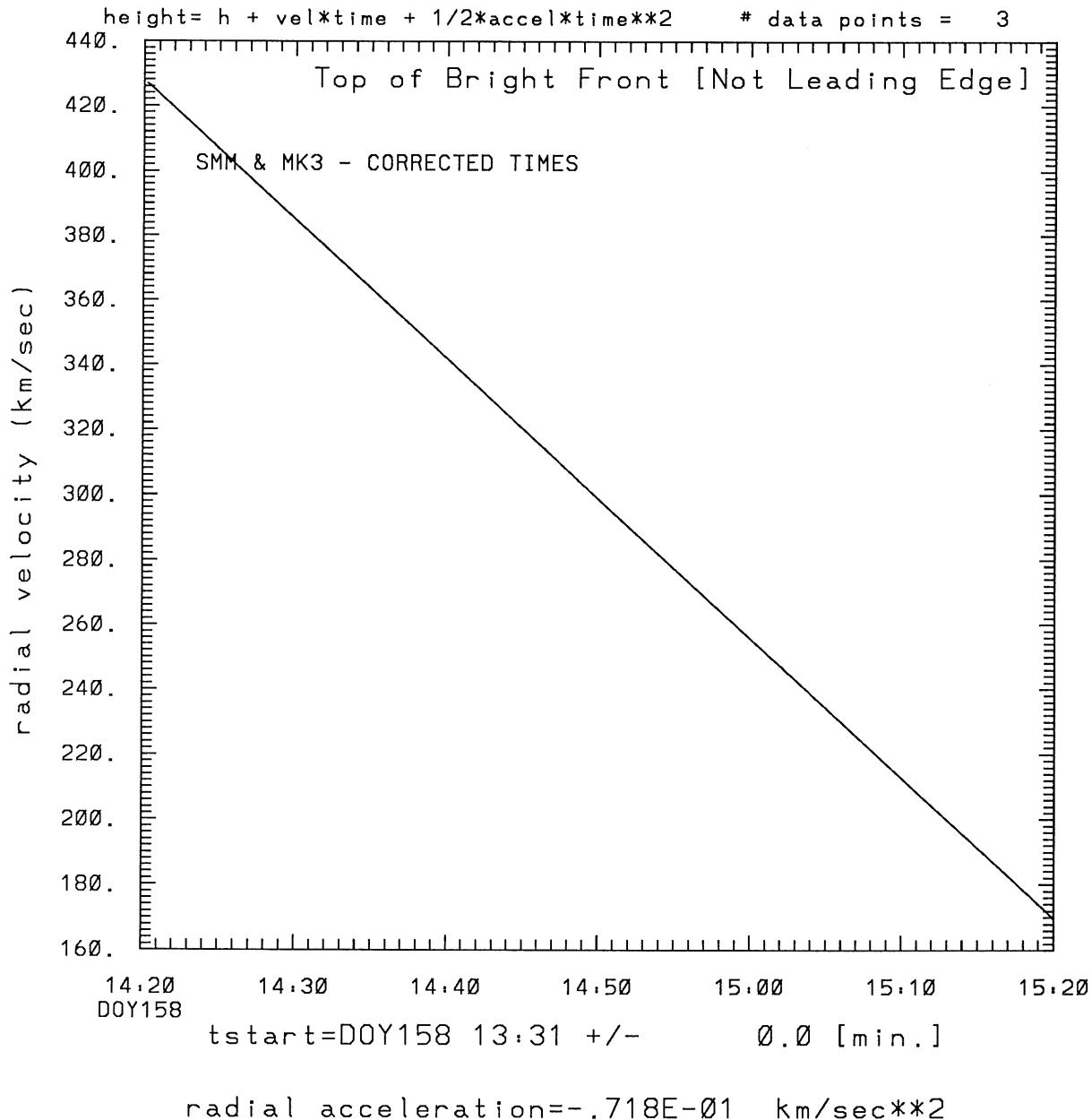
tstart=DOY158 12:59 +/- 3.0 [min.]
radial velocity= 327. +/- 15. [km/sec]

SMM C/P 1988 DOY158 250 +/- 0 degrees



radial acceleration=-0.0718 +/- 0.0000 [km/sec**2]

SMM C/P 1988 DOY158 250 +/- 0 degrees



This is a 1 order run

INPUT:

year	doy	time	radii	radius	error in angle	error in angle	datatype
1988	158	14:29:31	3.60	+/- 0.10	250.0	+/- 1.0	SMM
1988	158	14:46: 1	4.10	+/- 0.15	250.0	+/- 1.0	SMM
1988	158	15: 2:34	4.50	+/- 0.25	250.0	+/- 1.0	SMM

Structure being measured:

Top of Bright Front [Not Leading Edge] *Man o*

OUTPUT:

START TIME:

Event began at t = 0 + -0.828E+02 +/- 0.295E+01 [minutes]

In more convenient units:

Event began at DOY 158 12:59 +/- 0.295E+01 [minutes]

Origin defined at DOY158 14:20

RADIAL INFORMATION:

RADIAL VELOCITY = 327. +/- 15. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.334E+01 +/- 0.262E-01 [solar radii]

c(2) = 0.282E-01 +/- 0.127E-02 [radii/min]

c(2) = 0.327E+03 +/- 0.147E+02 [km/sec]

c(3) = 0.000E+00 +/- 0.000E+00 [radii/min**2]

c(3) = 0.000E+00 +/- 0.000E+00 [km/sec**2]

The computed ERRORS in coefficients [BEVINGTON] are:

error in c(1)= 0.60781E-01 [radii] see Bevington pg. 114

error in c(2)= 0.20729E-02 [radii/min] see Bevington pg. 114

ANGULAR INFORMATION:

ANGULAR VELOCITY = 0.0000E+00 +/- 0.0000E+00[radians/sec]

The computed ANGULAR coefficients and errors FROM NLLST2 are:

a(1) = 250. +/- 0. [degrees]
a(2) = 0.000E+00 +/- 0.000E+00 [degrees/min]
a(2) = 0.000E+00 +/- 0.000E+00 [rad/sec]
a(3) = 0.000E+00 +/- 0.000E+00 [degrees/min**2]
a(3) = 0.000E+00 +/- 0.000E+00 [rad/sec**2]

THE TANGENTIAL AND TOTAL VELOCITIES AT EACH DATA POINT ARE:

The TANGENTIAL velocity at 14:29 = 0. km/sec

The TOTAL velocity at 14:29 = 327. km/sec

The TANGENTIAL velocity at 14:46 = 0. km/sec

The TOTAL velocity at 14:46 = 327. km/sec

The TANGENTIAL velocity at 15: 2 = 0. km/sec

The TOTAL velocity at 15: 2 = 327. km/sec

The following info is for estimating goodness of the fit

Fit is ok [ier=1]

Standard Deviation in the height = 0.45

Standard Deviation in start time measurement = 0.135E+02

Error in time = 0.17166E+01 using best fit method

See Taylor Error Analysis [Univ of Colorado] pg.78

Value of reduced Chi Squared returned from nllst2 = 0.592E-03

Reduced Chi Squared = 0.617E-02

Chi Squared = 0.617E-02

The probability for exceeding chi square = 0.981E+00

The correlation coefficient = 0.998E+00

The probability that no LINEAR correlation exists between the variables = 0.4133E-01

SEE BEVINGTON "Data Reduction and Error Analysis" [1969]

This is a 2 order run

INPUT:

			error in		error in	
year	doy	time	radii	radius	angle	angle
1988	158	14:29:31	3.60	+/- 0.10	250.0	+/- 1.0
1988	158	14:46: 1	4.10	+/- 0.15	250.0	+/- 1.0
1988	158	15: 2:34	4.50	+/- 0.25	250.0	+/- 1.0

SMM

Structure being measured:

Top of Bright Front [Not Leading Edge]

OUTPUT:

START TIME:

Event began at t = 0 + -0.492E+02 +/- 0.000E+00 [minutes]

In more convenient units:

Event began at DOY 158 13:31 +/- 0.000E+00 [minutes]

Origin defined at DOY158 14:20

RADIAL INFORMATION:

RADIAL ACCELERATION = -0.718E-01 +/- 0.497E-06 km/sec**2

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.327E+01 +/- 0.561E-06 [solar radii]
c(2) = 0.369E-01 +/- 0.614E-07 [radii/min]
c(2) = 0.428E+03 +/- 0.712E-03 [km/sec]
c(3) = -0.186E-03 +/- 0.129E-08 [radii/min**2]
c(3) = -0.718E-01 +/- 0.497E-06 [km/sec**2]

ANGULAR INFORMATION:

ANGULAR ACCELERATION= 0.0000E+00 +/- 0.0000E+00[radians/sec**2]

The computed ANGULAR coefficients and errors FROM NLLST2 are:

a(1) = 250. +/- 0. [degrees]
a(2) = 0.000E+00 +/- 0.000E+00 [degrees/min]
a(2) = 0.000E+00 +/- 0.000E+00 [rad/sec]
a(3) = 0.000E+00 +/- 0.000E+00 [degrees/min**2]

a(3) = 0.000E+00 +/- 0.000E+00 [rad/sec**2]

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THE TANGENTIAL AND TOTAL VELOCITIES AT EACH DATA POINT ARE:
The TANGENTIAL velocity at 14:29 = 0. km/sec
The TOTAL velocity at 14:29 = 387. km/sec

The TANGENTIAL velocity at 14:46 = 0. km/sec
The TOTAL velocity at 14:46 = 316. km/sec

The TANGENTIAL velocity at 15: 2 = 0. km/sec
The TOTAL velocity at 15: 2 = 245. km/sec

The following info is for estimating goodness of the fit

Number data points = number of coefficients. No error analysis is possible.

Correlation coefficient is not computable!