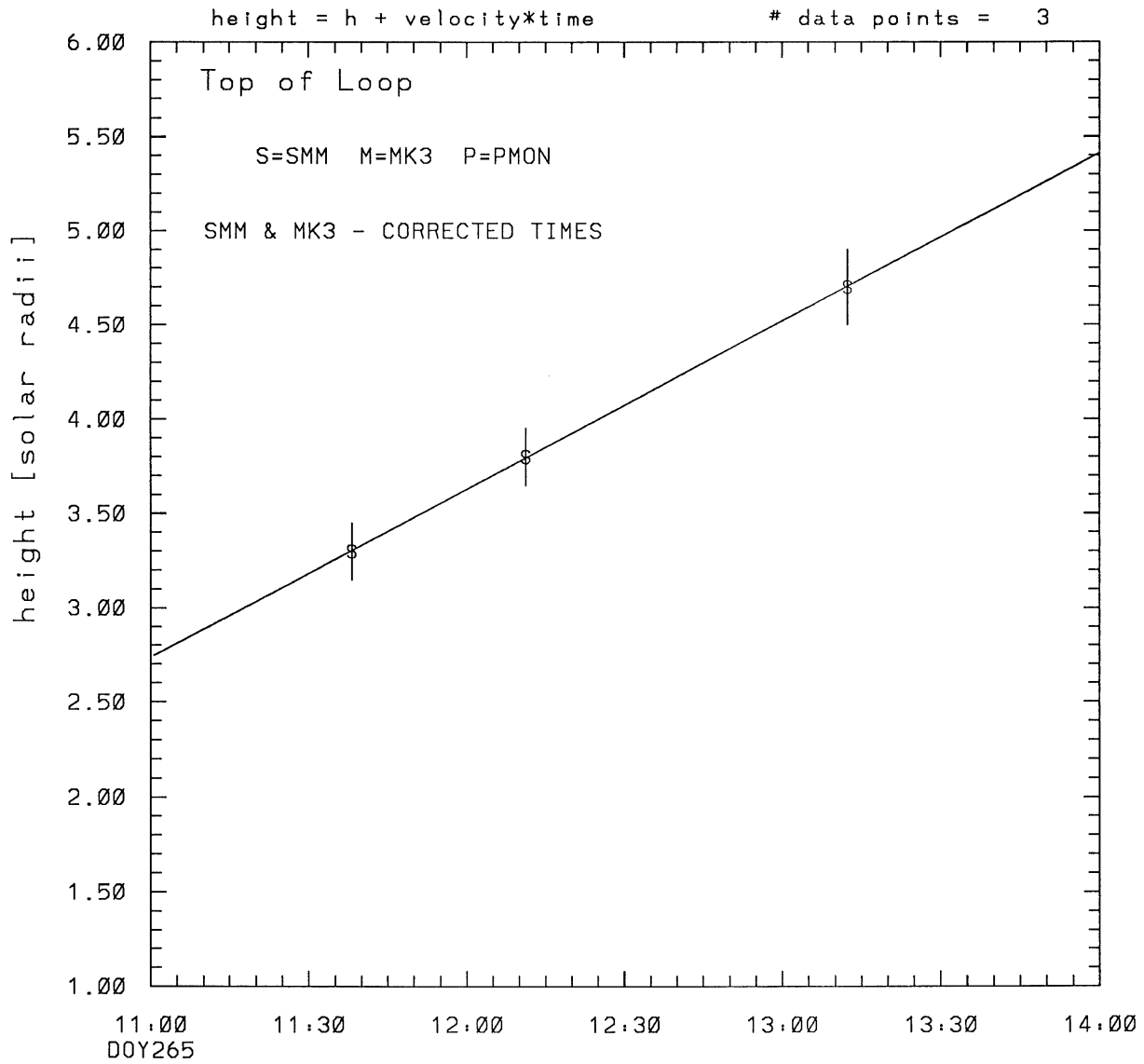


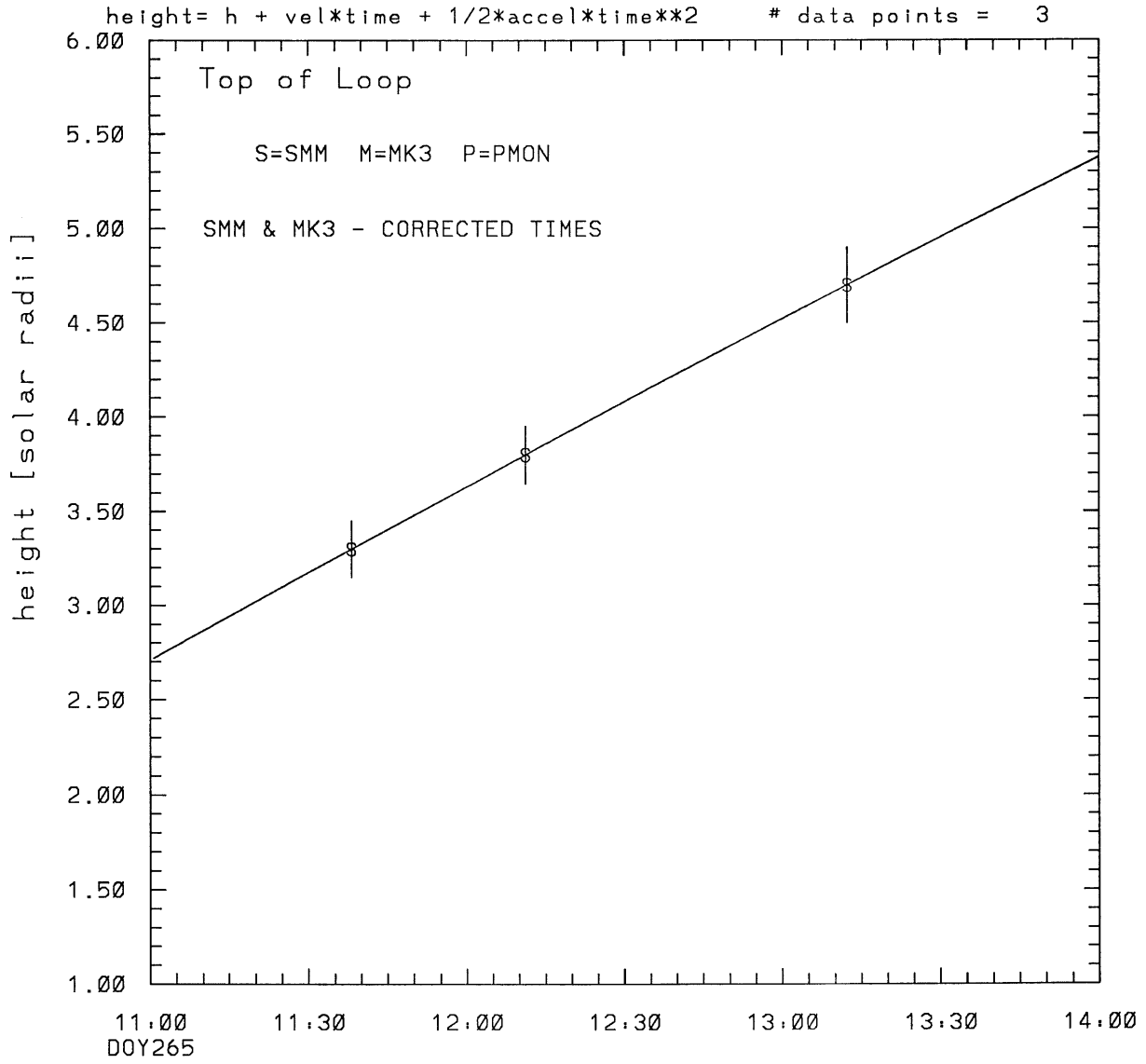


SMM C/P 1987 DOY265 65 +/- 0 degrees



tstart=DOY265 9: 5 +/- 0.5 [min.]
radial velocity= 172. +/- 1. [km/sec]

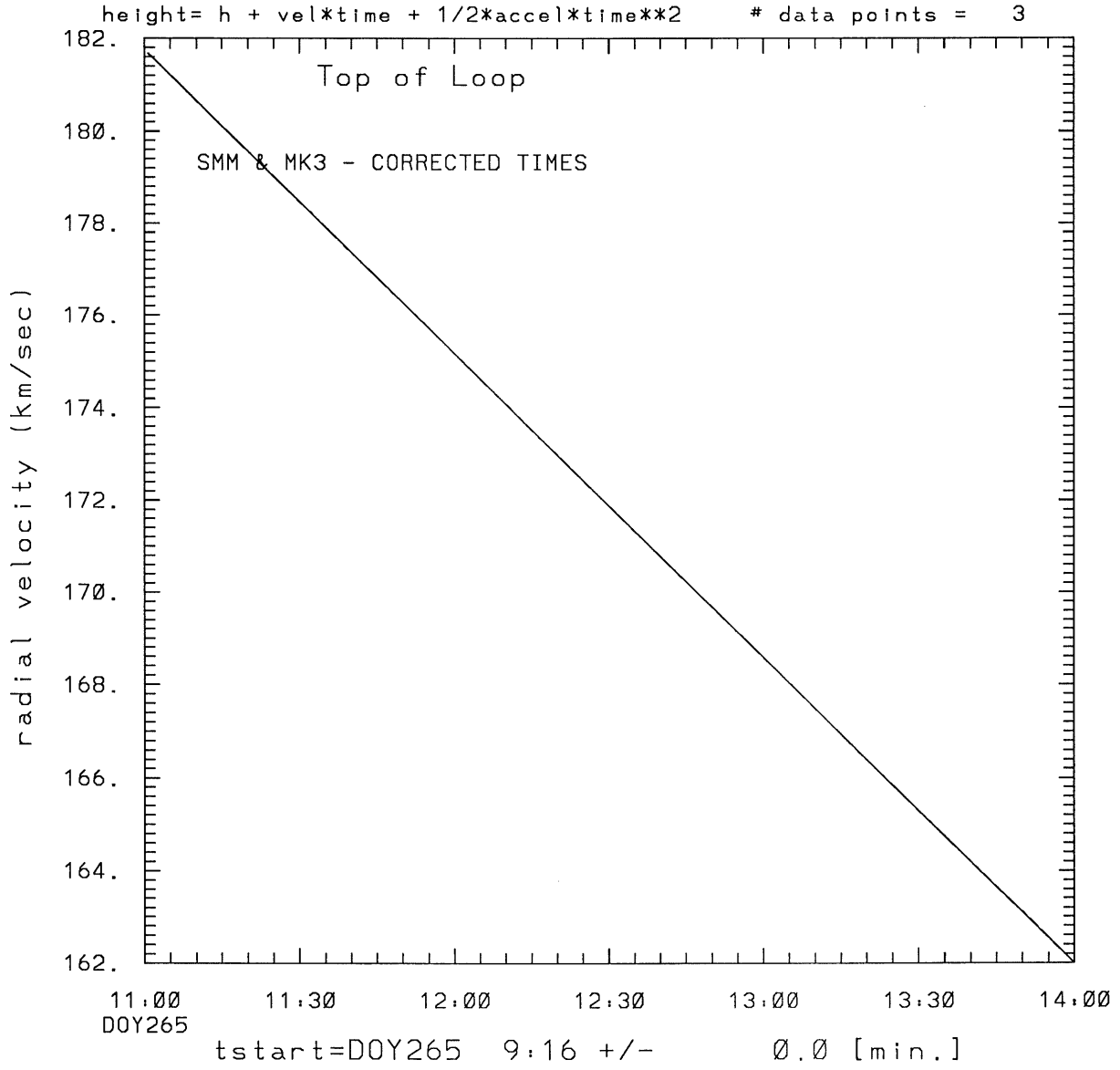
SMM C/P 1987 DOY265 65 +/- 0 degrees



tstart=DOY265 9:16 +/- 0.0 [min.]

radial acceleration=-0.0018 +/- 0.0000 [km/sec**2]

SMM C/P 1987 DOY265 65 +/- 0 degrees



radial acceleration=-.183E-02 km/sec**2

This is a 1 order run

INPUT:

year	day	time	radii	error in radius	angle	error in angle	datatype
1987	265	11:38:10	3.30	+/- 0.15	65.0	+/- 1.0	SMM
1987	265	12:11:10	3.80	+/- 0.15	65.0	+/- 1.0	SMM
1987	265	13:12:22	4.70	+/- 0.20	65.0	+/- 1.0	SMM

Structure being measured:

Top of Loop

OUTPUT:

START TIME:

Event began at t = 0 + -0.117E+03 +/- 0.488E+00 [minutes]

In more convenient units:

Event began at DOY 265 9: 5 +/- 0.488E+00 [minutes]

Origin defined at DOY265 11: 0

RADIAL INFORMATION:

RADIAL VELOCITY = 172. +/- 1. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.274E+01 +/- 0.746E-02 [solar radii]
 c(2) = 0.149E-01 +/- 0.933E-04 [radii/min]
 c(2) = 0.172E+03 +/- 0.108E+01 [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)= 0.10379E-01 [radii] see Bevington pg. 114

error in c(2)= 0.11593E-03 [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) = 65. +/- 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 11:38 = 0.000E+00 km/sec

The TOTAL velocity at 11:38 = 172. km/sec

The TANGENTIAL velocity at 12:11 = 0.000E+00 km/sec

The TOTAL velocity at 12:11 = 172. km/sec

The TANGENTIAL velocity at 13:12 = 0.000E+00 km/sec

The TOTAL velocity at 13:12 = 172. km/sec

The following info is for estimating goodness of the fit

Fit is ok [ier=1]

Standard Deviation in the height = 0.71

Standard Deviation in start time measurement = 0.390E+02

Error in time = 0.52736E+00 using best fit method

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

Value of reduced Chi Squared returned from nllst2 = 0.326E-04

Reduced Chi Squared = 0.122E-03

Chi Squared = 0.122E-03

The probability for exceeding chi square = 0.995E+00

The correlation coefficient = 0.100E+01

The probability that no LINEAR correlation exists between the variables = 0.5160E-02

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

This is a 2 order run

INPUT:

year	doy	time	radii	error in radius	angle	error in angle	datatype
1987	265	11:38:10	3.30	+/- 0.15	65.0	+/- 1.0	SMM
1987	265	12:11:10	3.80	+/- 0.15	65.0	+/- 1.0	SMM
1987	265	13:12:22	4.70	+/- 0.20	65.0	+/- 1.0	SMM

Structure being measured:

Top of Loop

OUTPUT:

START TIME:

Event began at $t = 0 + -0.106E+03 +/- 0.000E+00$ [minutes]

In more convenient units:

Event began at DOY 265 9:16 +/- 0.000E+00 [minutes]

Origin defined at DOY265 11: 0

RADIAL INFORMATION:

RADIAL ACCELERATION = $-0.183E-02 +/- 0.270E-06$ km/sec**2

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = $0.271E+01 +/- 0.438E-05$ [solar radii]
c(2) = $0.157E-01 +/- 0.121E-06$ [radii/min]
c(2) = $0.182E+03 +/- 0.140E-02$ [km/sec]
c(3) = $-0.473E-05 +/- 0.699E-09$ [radii/min**2]
c(3) = $-0.183E-02 +/- 0.270E-06$ [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) = $65. +/- 0.$ [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]

$$a(3) = 0.000E+00 \text{ +/- } 0.000E+00 \text{ [rad/sec**2]}$$

THE TANGENTIAL AND TOTAL VELOCITIES AT EACH DATA POINT ARE:

The TANGENTIAL velocity at 11:38 = 0.000E+00 km/sec

The TOTAL velocity at 11:38 = 178. km/sec

The TANGENTIAL velocity at 12:11 = 0.000E+00 km/sec

The TOTAL velocity at 12:11 = 174. km/sec

The TANGENTIAL velocity at 13:12 = 0.000E+00 km/sec

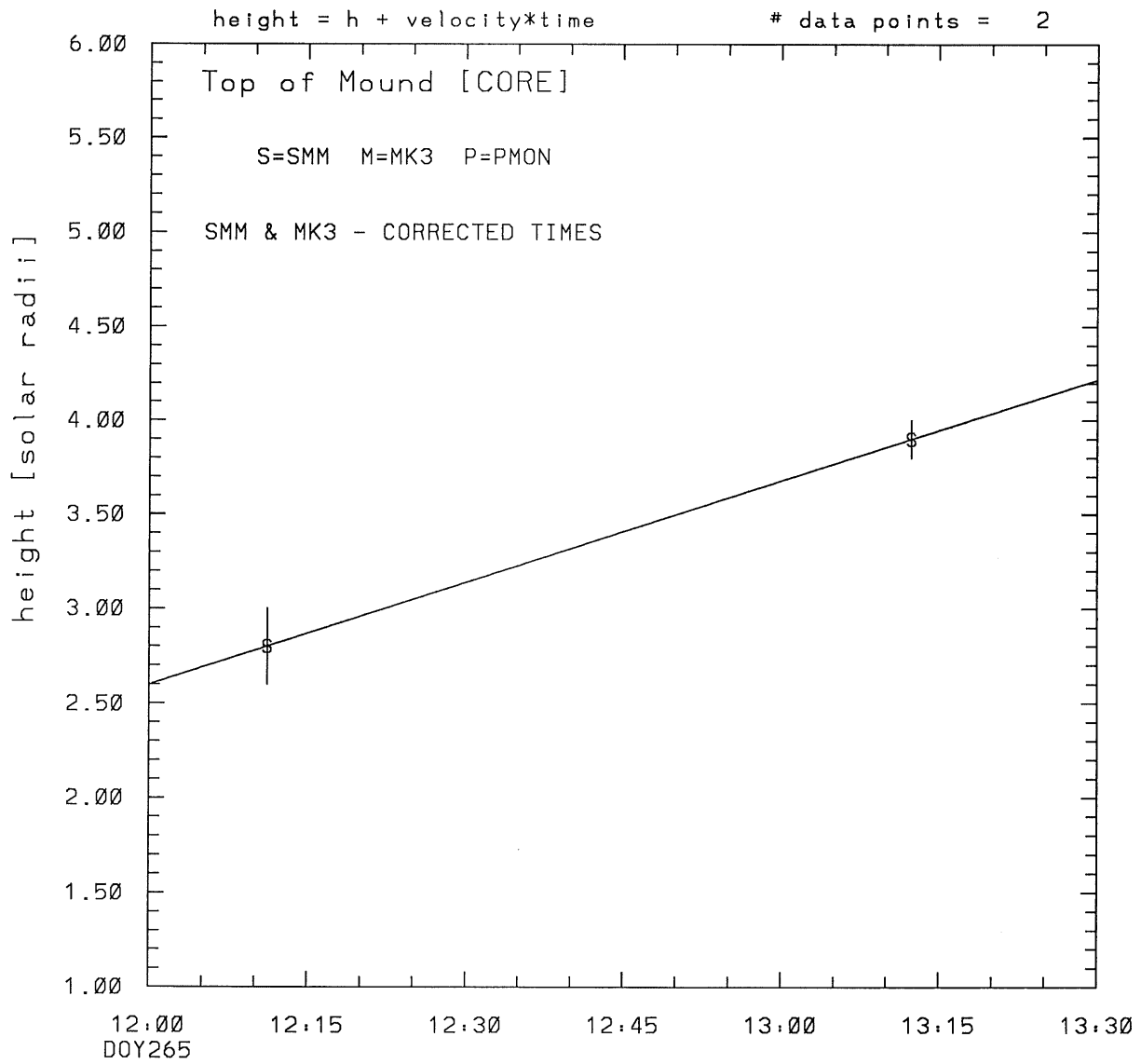
The TOTAL velocity at 13:12 = 167. km/sec

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 1987 DOY265 65 +/- 0 degrees



tstart=DOY265 10:33 +/- 0.0 [min.]
radial velocity= 208. +/- 0. [km/sec]

This is a 1 order run

INPUT:

year	day	time	radii	error in radius	angle	error in angle	datatype
1987	265	12:11:10	2.80	+/- 0.20	65.0	+/- 0.5	SMM
1987	265	13:12:22	3.90	+/- 0.10	65.0	+/- 1.0	SMM

Structure being measured:

Top of Mound [CORE]

OUTPUT:

START TIME:

Event began at $t = 0 + -0.890E+02 +/- 0.000E+00$ [minutes]

In more convenient units:

Event began at DOY 265 10:33 +/- 0.000E+00 [minutes]

Origin defined at DOY265 12: 0

RADIAL INFORMATION:

RADIAL VELOCITY = 208. +/- 0. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.260E+01 +/- 0.000E+00 [solar radii]
c(2) = 0.180E-01 +/- 0.000E+00 [radii/min]
c(2) = 0.208E+03 +/- 0.000E+00 [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) = 65. +/- 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 12:11 = 0.000E+00 km/sec

The TOTAL velocity at 12:11 = 208. km/sec

The TANGENTIAL velocity at 13:12 = 0.000E+00 km/sec

The TOTAL velocity at 13:12 = 208. 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!