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NASA-CR 86327

CORRELATION OF GRAVIMETRIC
AND SATELLITE GEODETIC DATA

Interim Progress Report Part II

Covering Period

September 11, 1967 – February 29, 1968

Prepared by

Gerald Ouellette
Pasquale Sconzo

Under

Contract NAS 12-598

for

National Aeronautics and Space Administration
Electronics Research Center
Cambridge, Massachusetts



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Center for Exploratory Studies
Rockville, Maryland

IBM

SP 159408

Correlation of Gravimetric
and
Satellite Geodetic Data

Prepared by
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International Business Machines Corporation
1730 Cambridge Street
Cambridge, Massachusetts

Contract Number NAS 12 - 598

Interim Scientific Report
Part II
Appendix B

Covering Period September 11, 1967 - February 29, 1968

Prepared for

Space Systems Group
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Electronics Research Center
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- A P P E N D I X B -

Graphical Results

This appendix contains the graphical results obtained from the computer. Each graph depicts the positional errors resulting from the inclusion of a given value for one harmonic coefficient. In Section 1, the values used are those published by Rapp as best estimates for the harmonics. In Section 2, the values used are the standard errors associated with each harmonic as published by Rapp. This was achieved by the use of the F factor as described in Section 3.1. It will be noticed that a slight variation in this technique is required in the graphs for zonal harmonics through $C_{4,0}$. This is simply due to the fact that these harmonics were included in the nominal trajectory.

Section 3 contains some preliminary results parameterized with period (semi-major axis).

The secular trend exhibited by many of the graphs is one which can be accounted for (see Section 2.1). Consequently, the prediction error in these graphs is considered to be given by the amplitude of the oscillation about the secular trend.

SECTION I

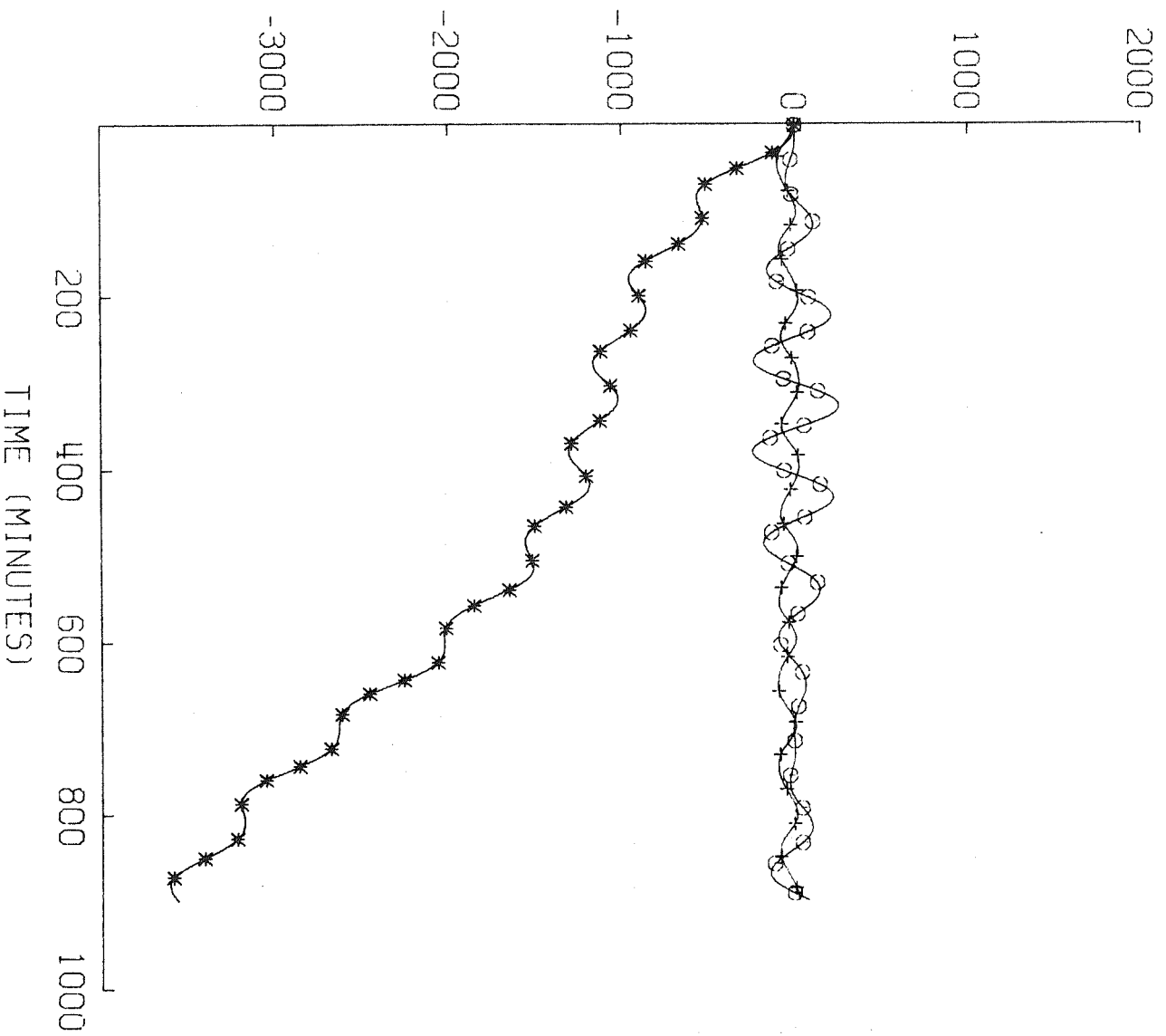
GRAPHICAL OUTPUT FOR HARMONIC VALUES

EQUAL TO PUBLISHED VALUES

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(2 , 2) = 2.3241
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

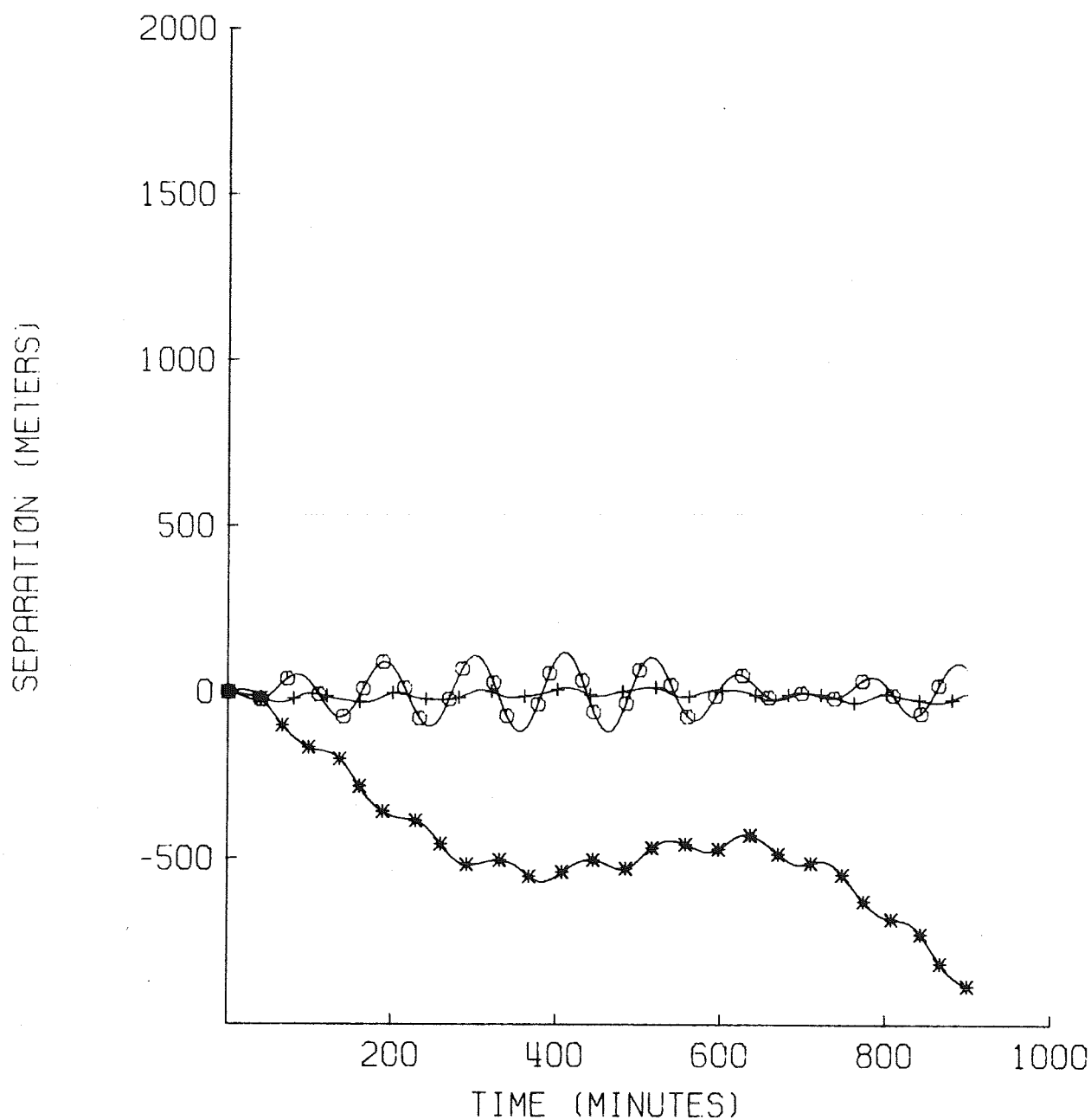
RUN FOR S(2 ,2) = -1.3106

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

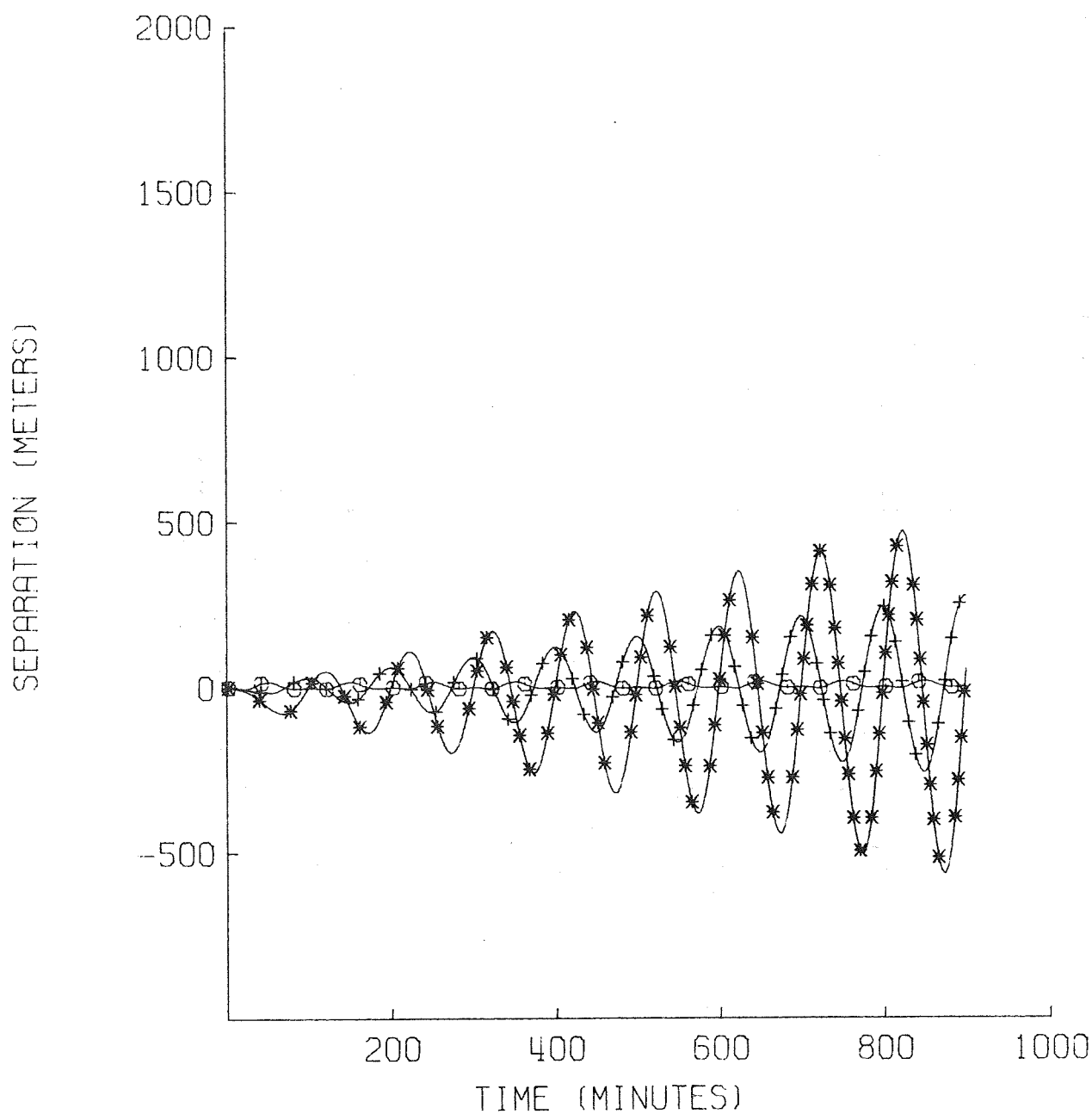
RUN FOR C(3 , 0) = .9025

FACTOR USED IS 2.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

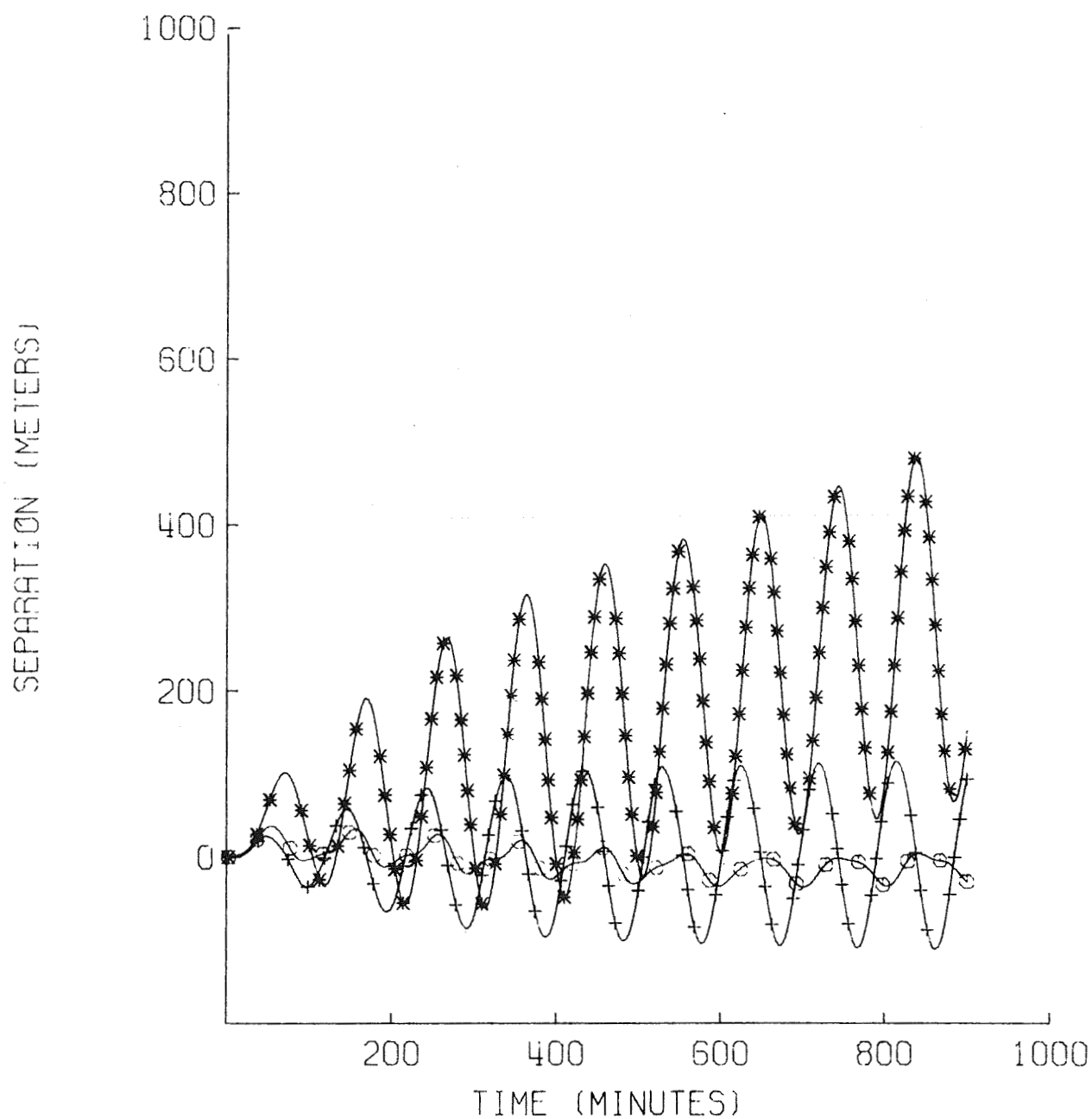
RUN FOR C(3 , 1) = 1.7842

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

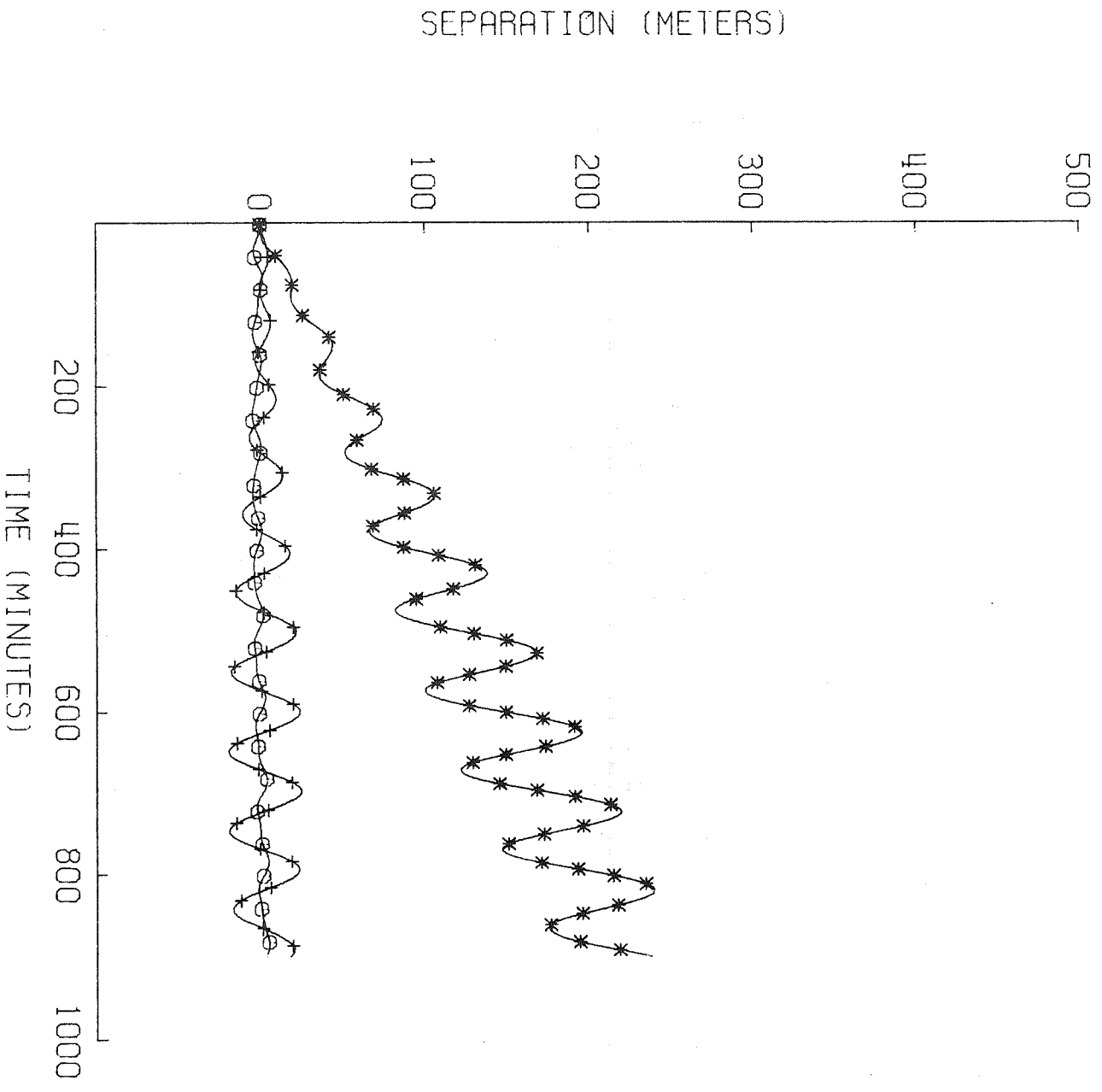
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C	OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7135.6535	

RUN FOR S(3 , 1) = .2601
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

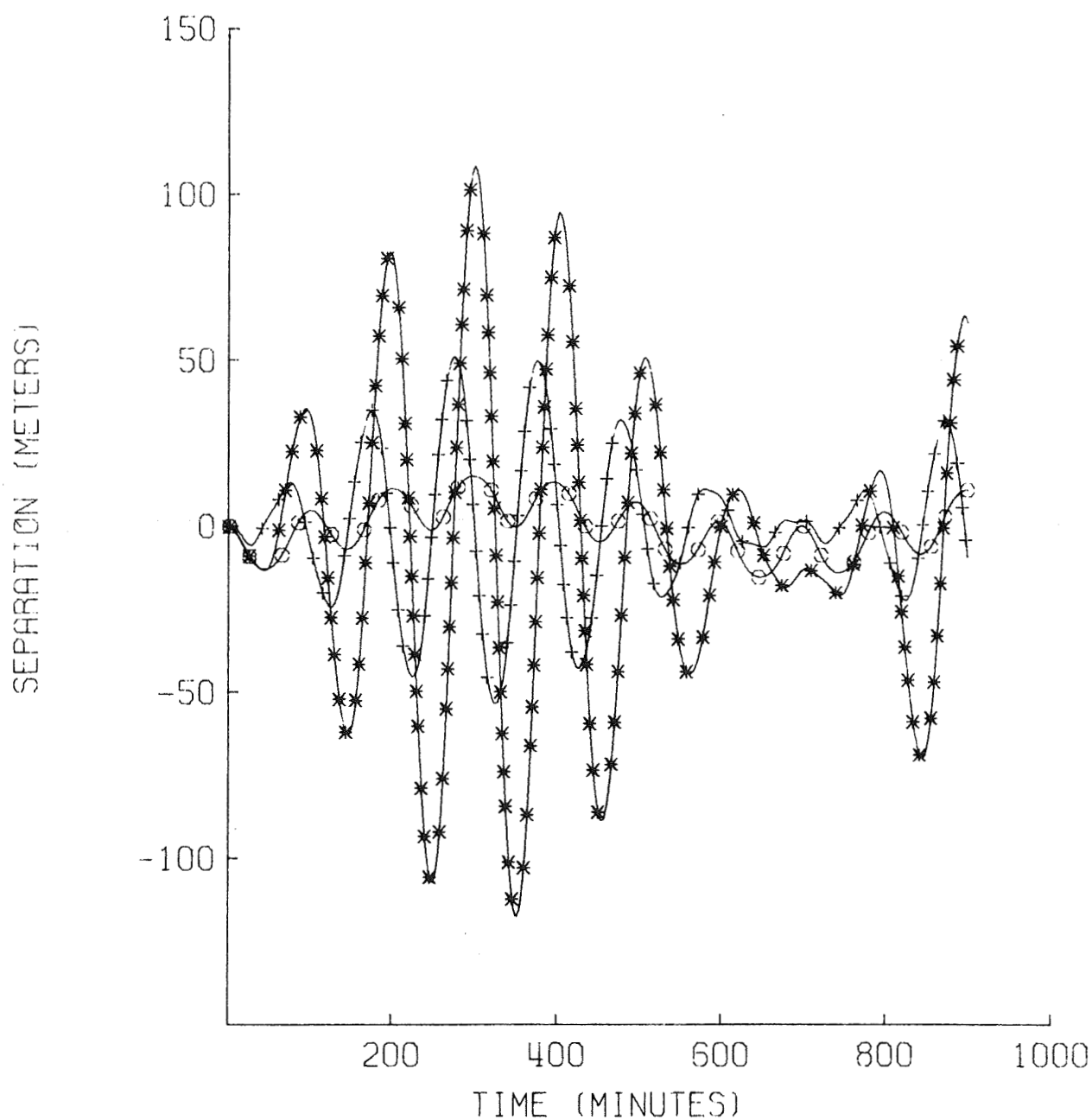
RUN FOR C(3 .2) = .7224

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

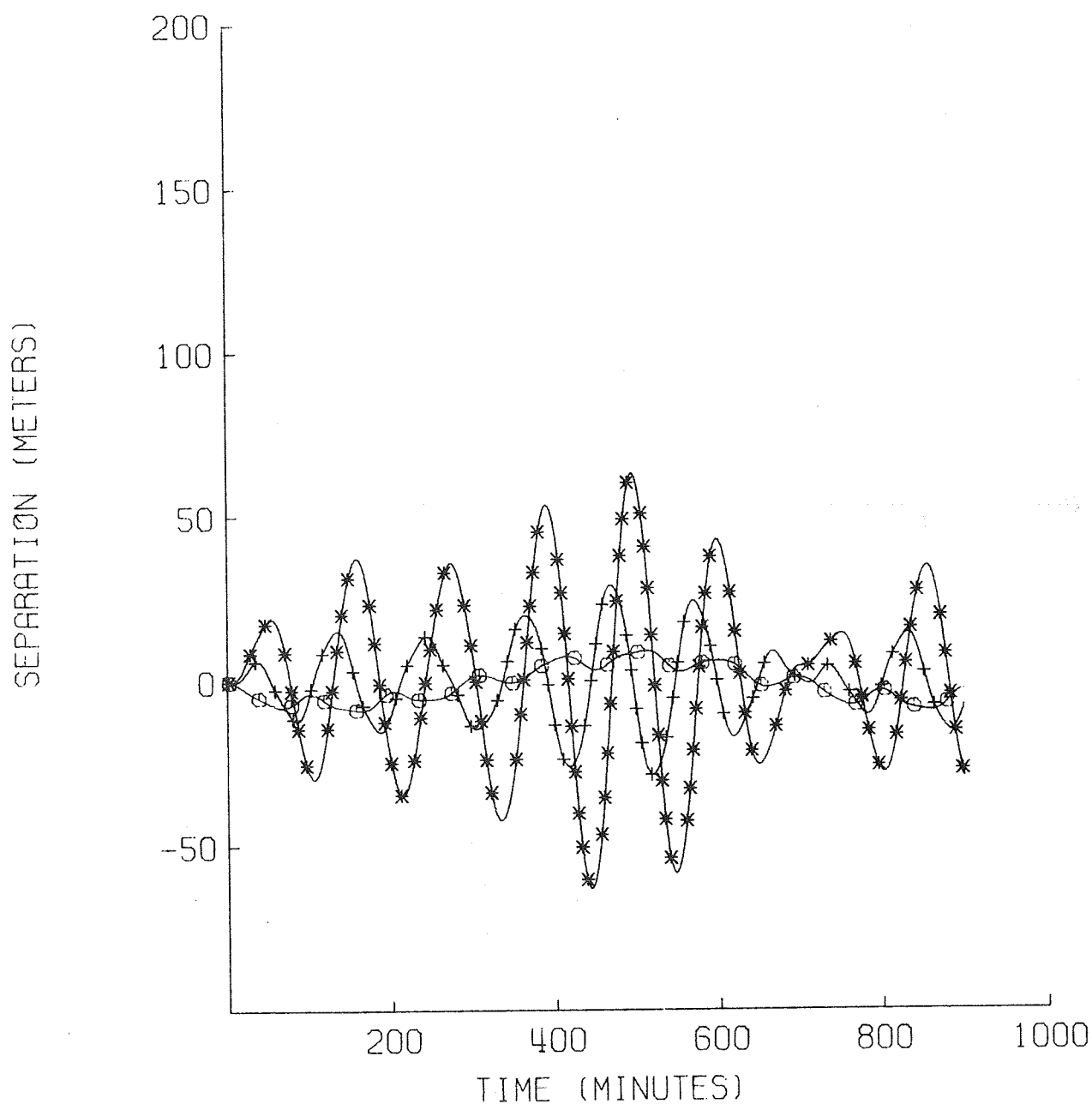
RUN FOR $S(3, 2) = -.5755$

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7135.6535

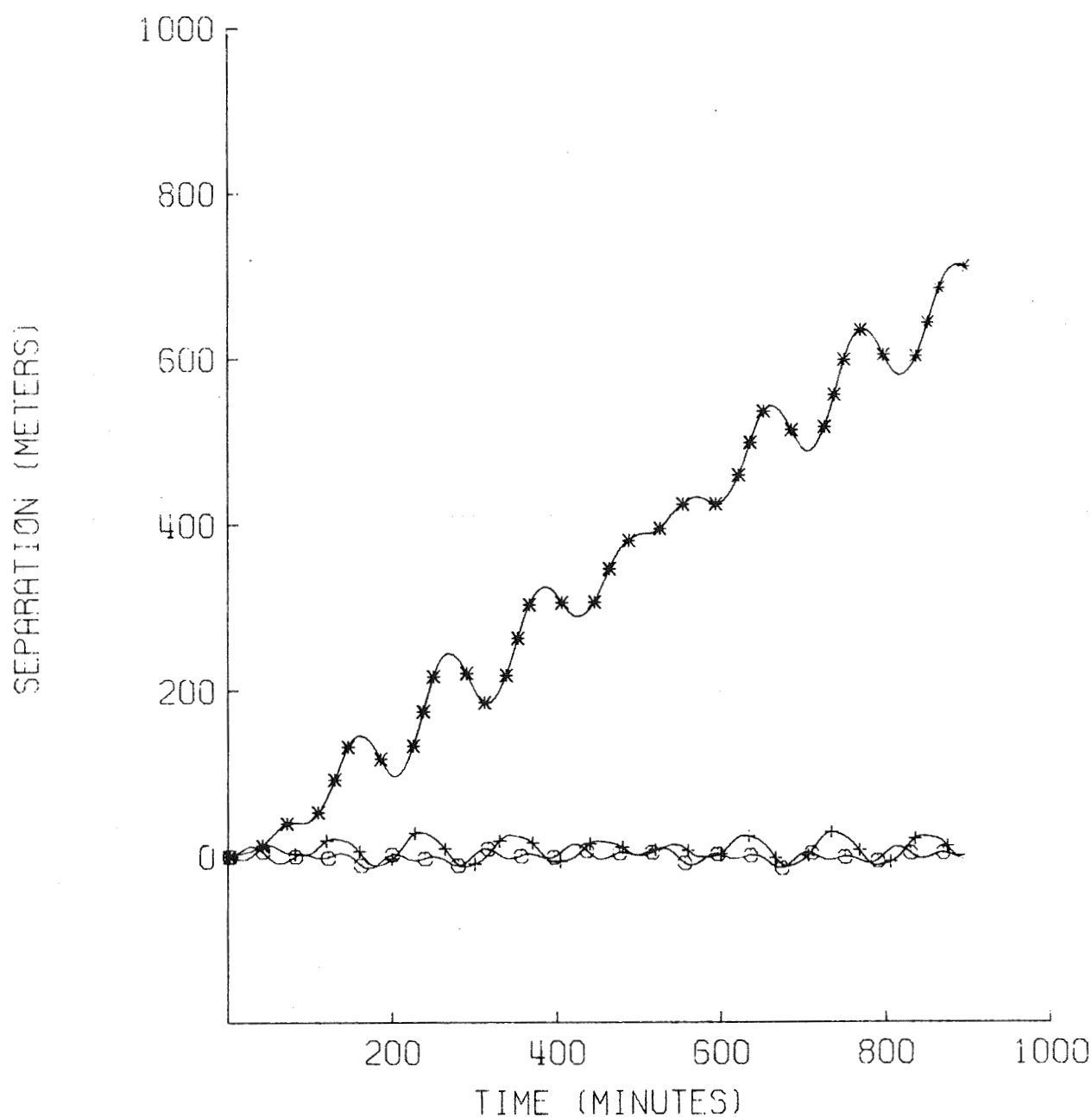
RUN FOR C(3 ,3) = .7240

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

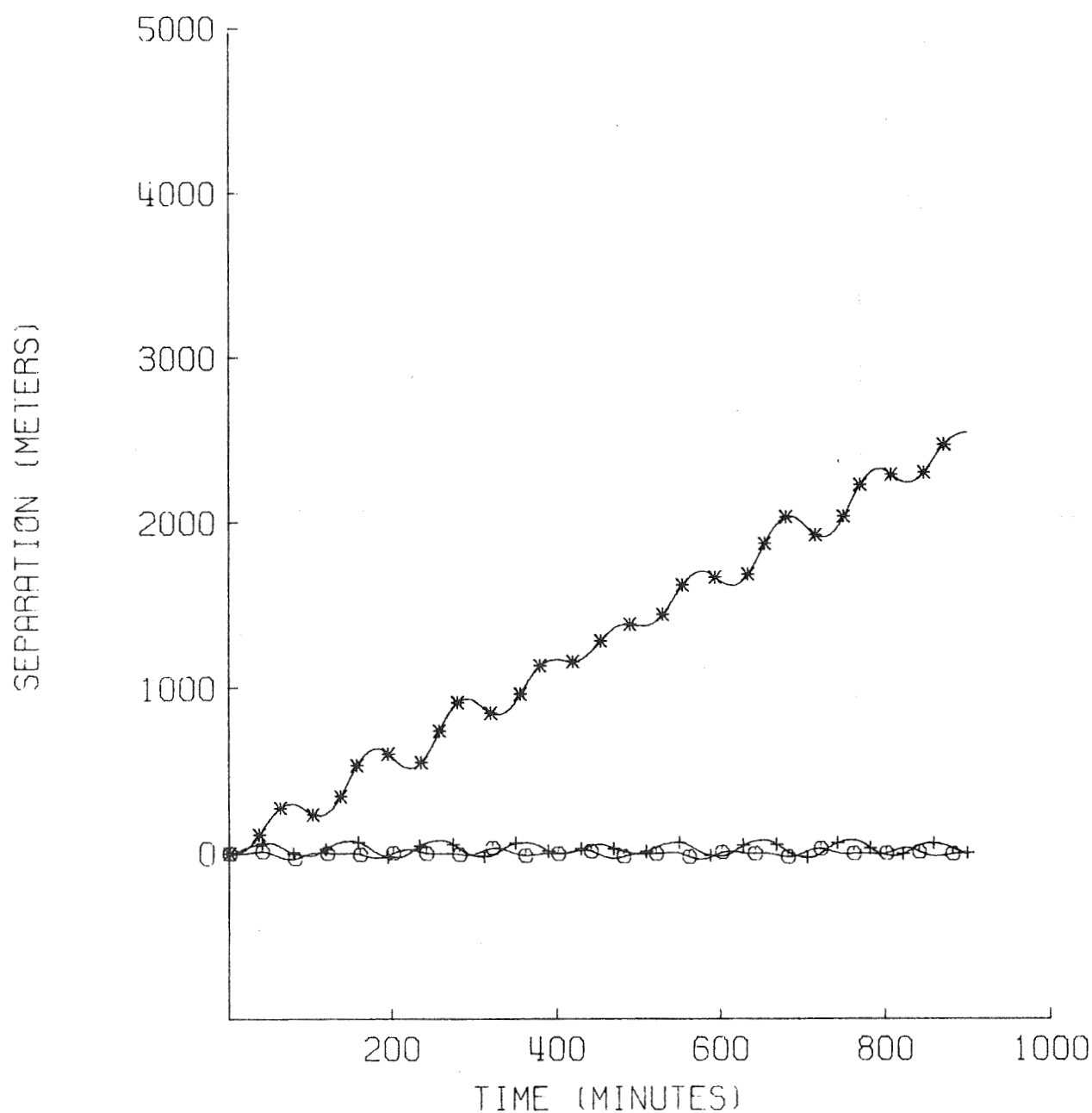
RUN FOR S(3 ,3) = 1.3860

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

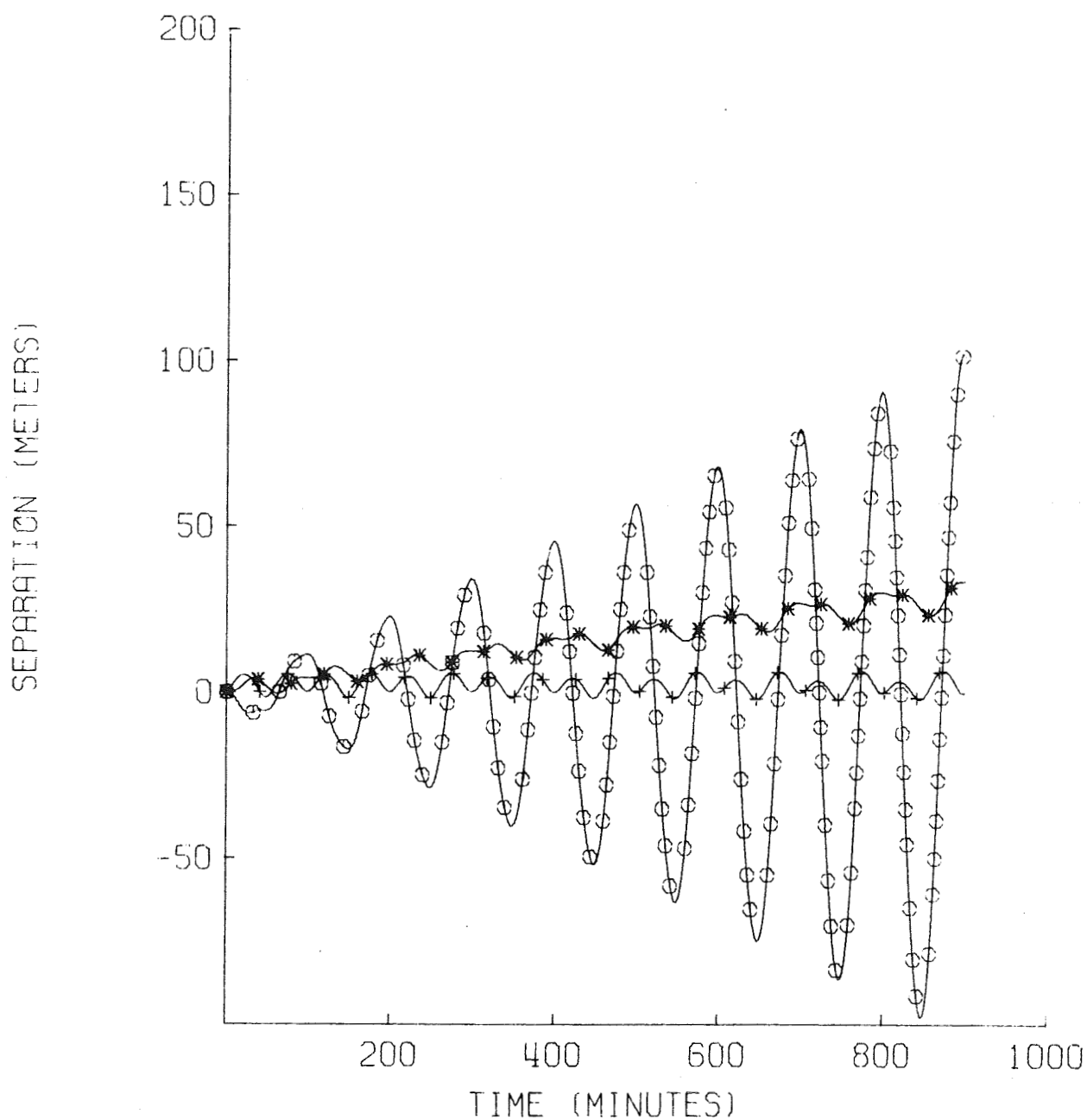
RUN FOR C(4 , 0) = .5608

FACTOR USED IS 2.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

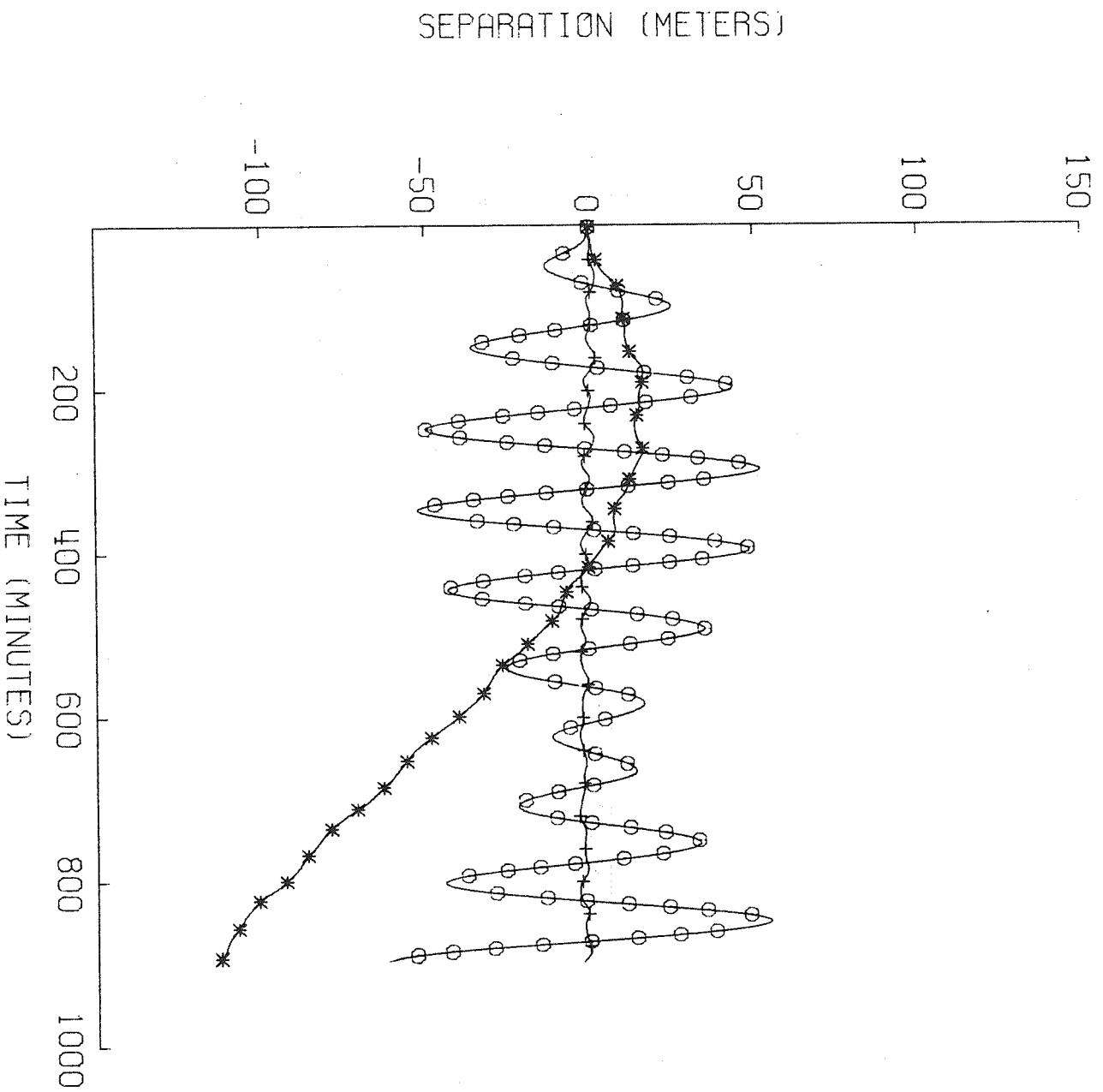
(O) BI-NORMAL CROSS-TRACK



M	0.0000	OMEGA	0.0000	C	OMEGA	0.0000	I	45.00000	E	.00500000	A	7135.6535
---	--------	-------	--------	---	-------	--------	---	----------	---	-----------	---	-----------

RUN FOR C(4 , 1) = -.5289
 FACTOR USED IS 1.000000

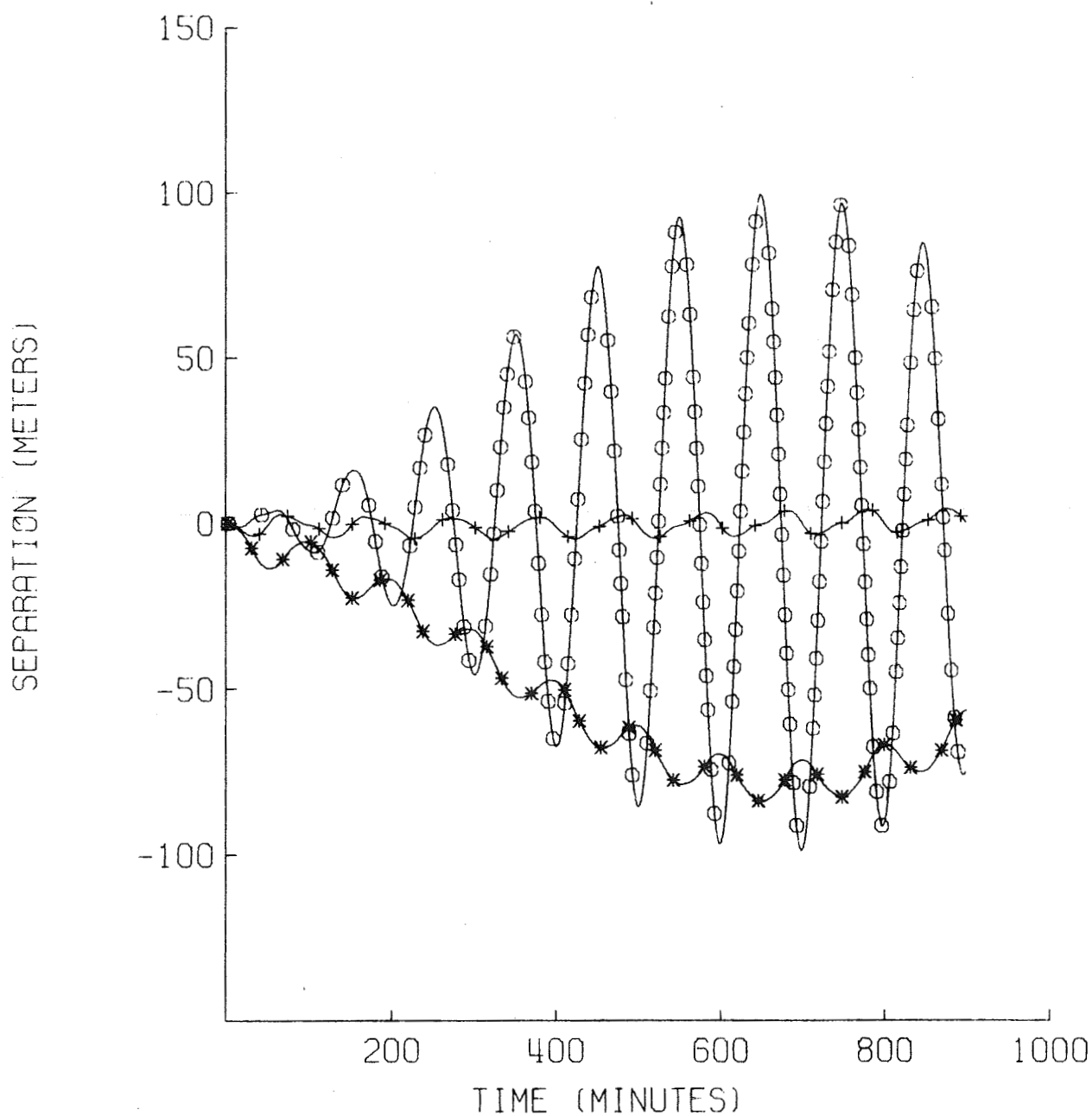
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(4 , 1) = -.4290
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C	OMEGA	I	E	A
0.0000	0.0000	0.0000		45.00000	.00500000	7136.6535

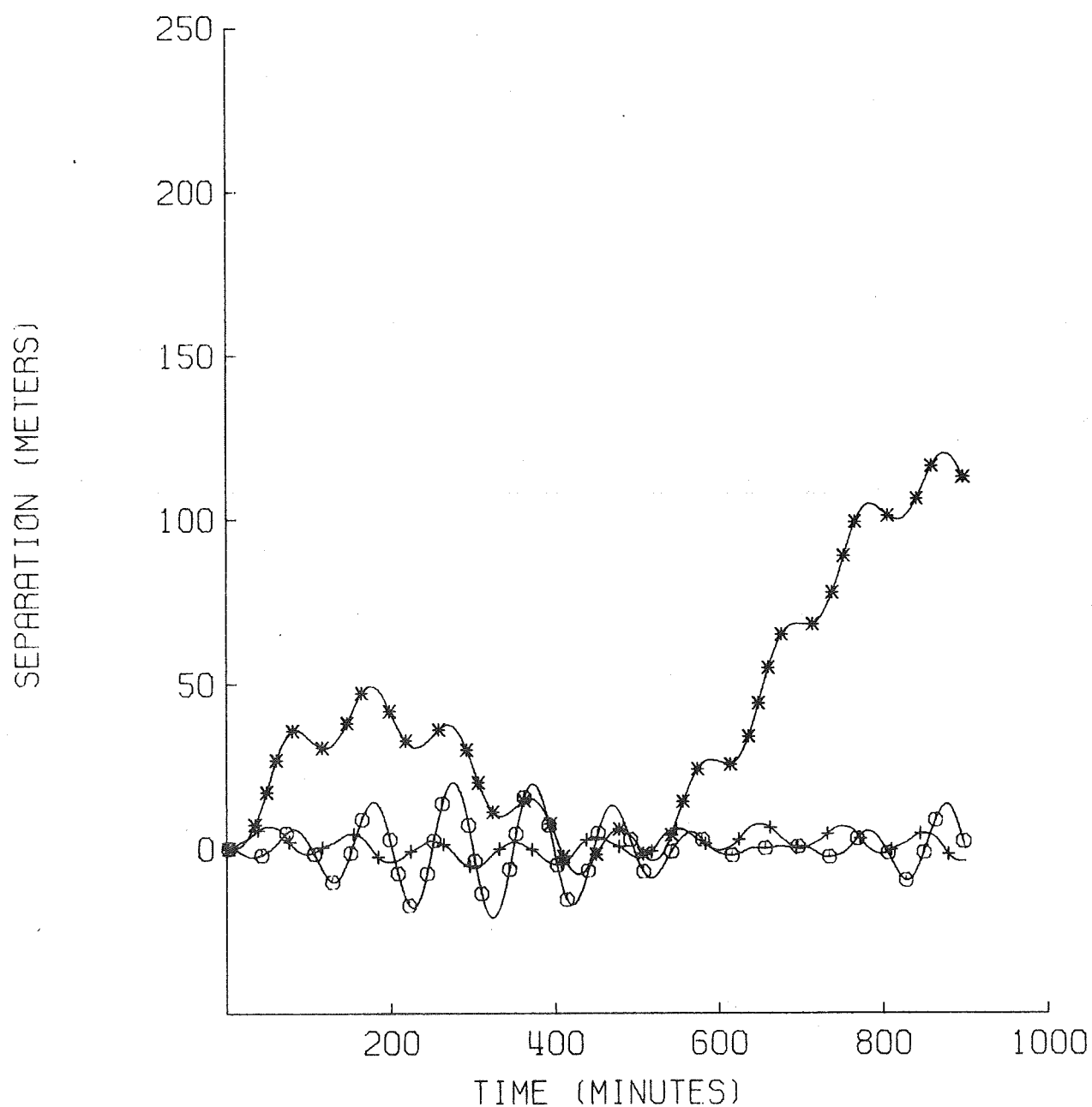
RUN FOR C(4 , 2) = .1966

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

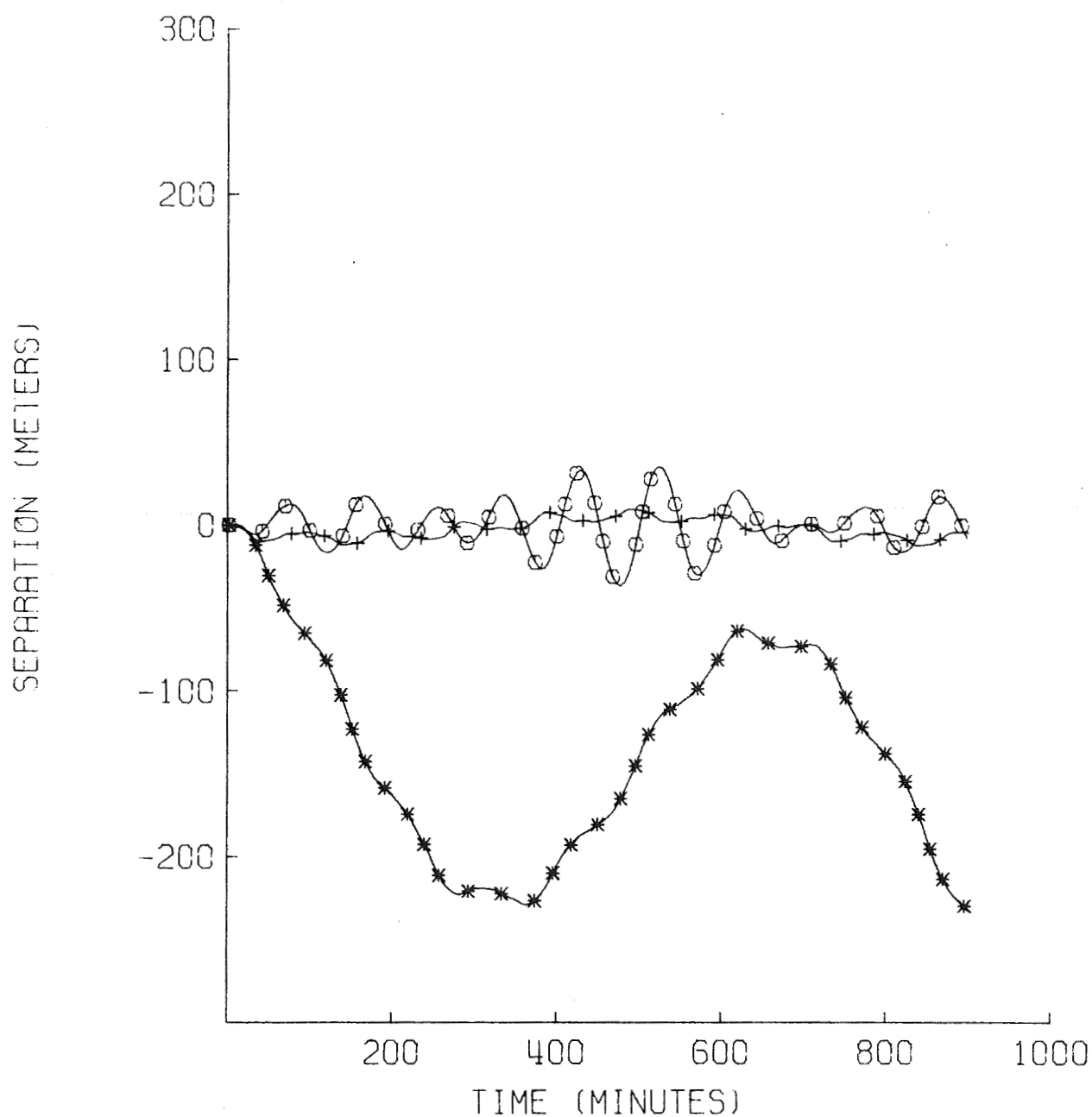
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(4 , 2) = .5120
 FACTOR USED IS 1.000000

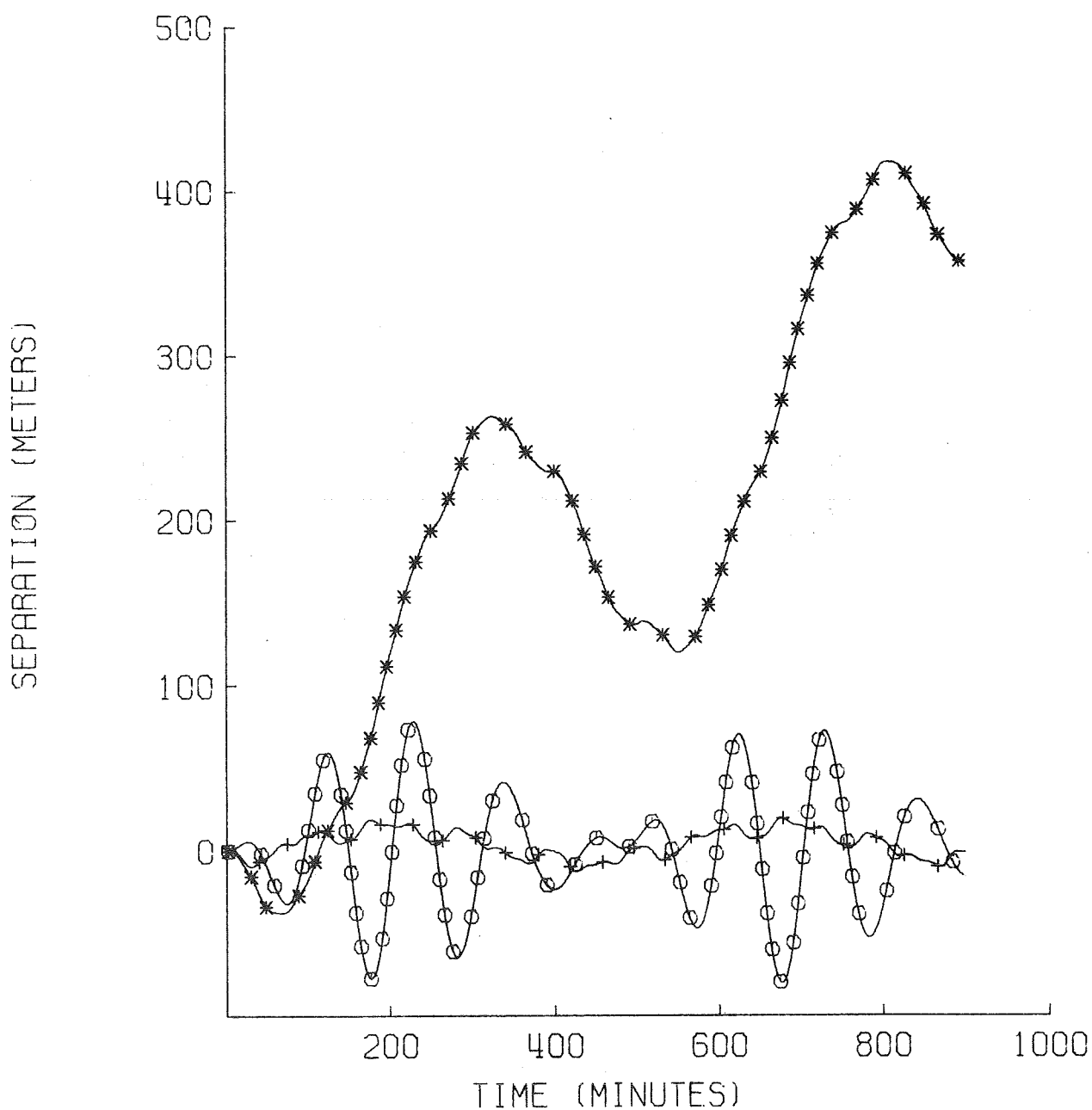
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(4 , 3) = .8804
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

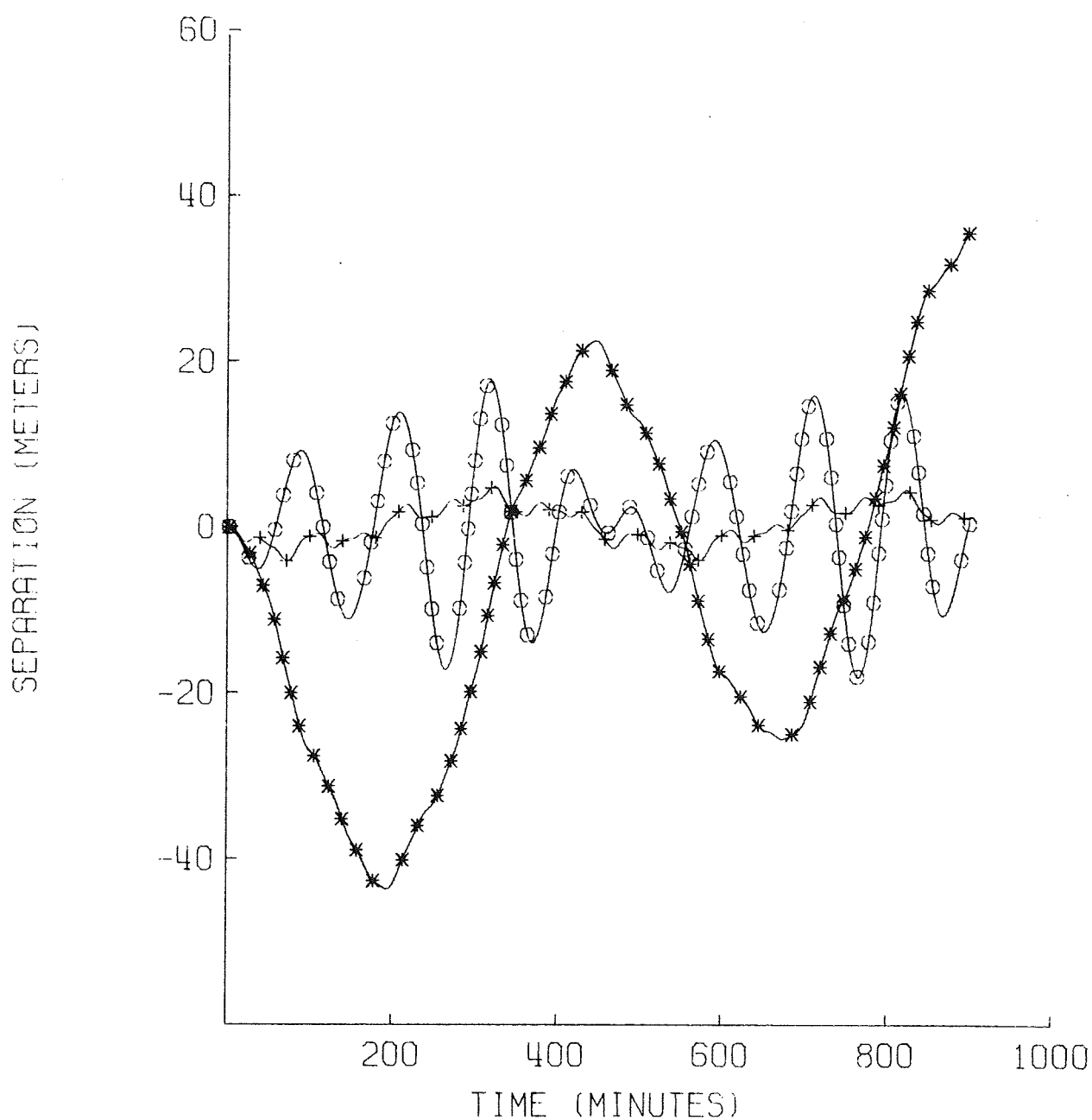
RUN FOR S(4 ,3) = -.2317

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

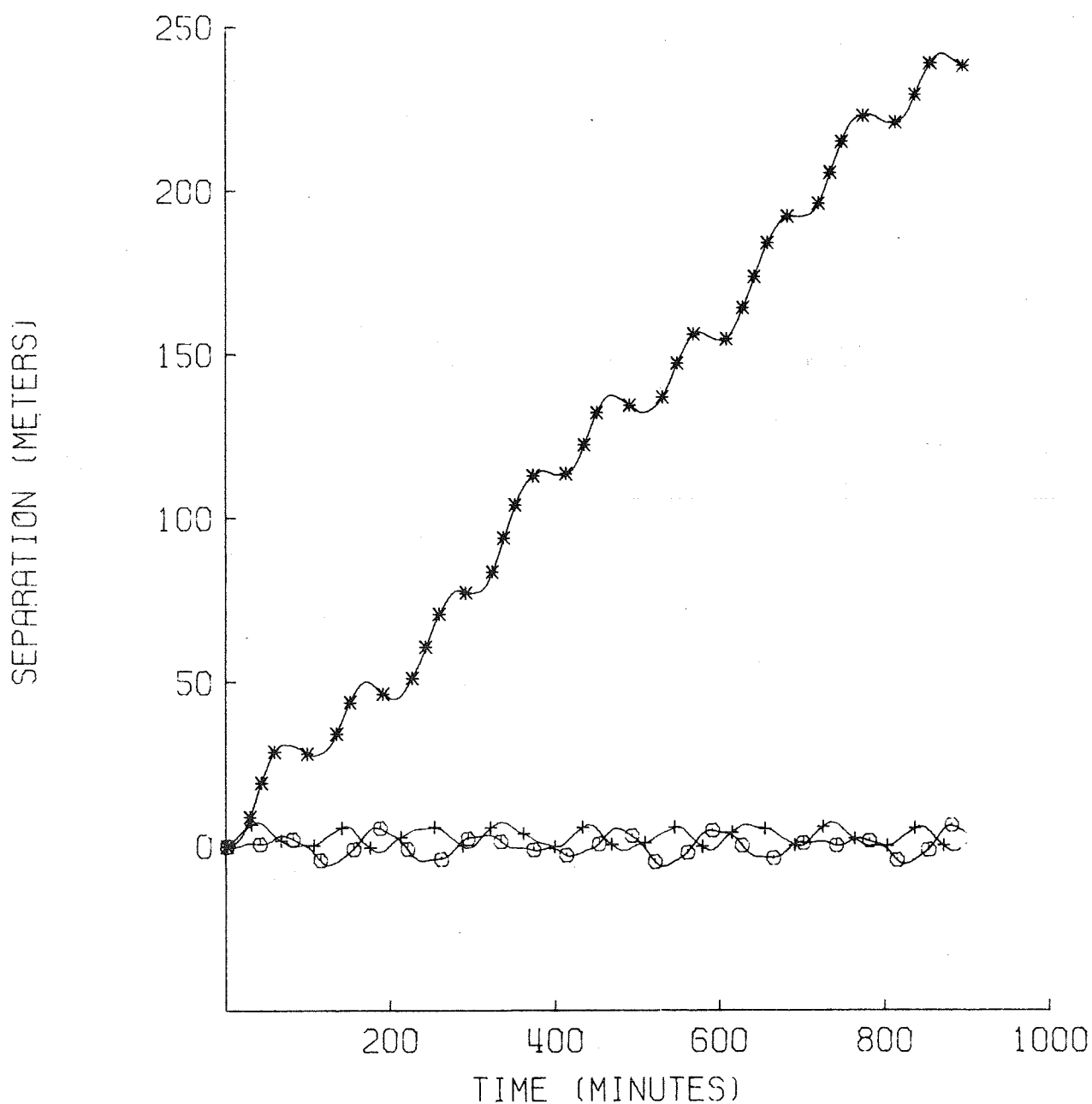
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(4 , 4) = .1861
 FACTOR USED IS 1.000000

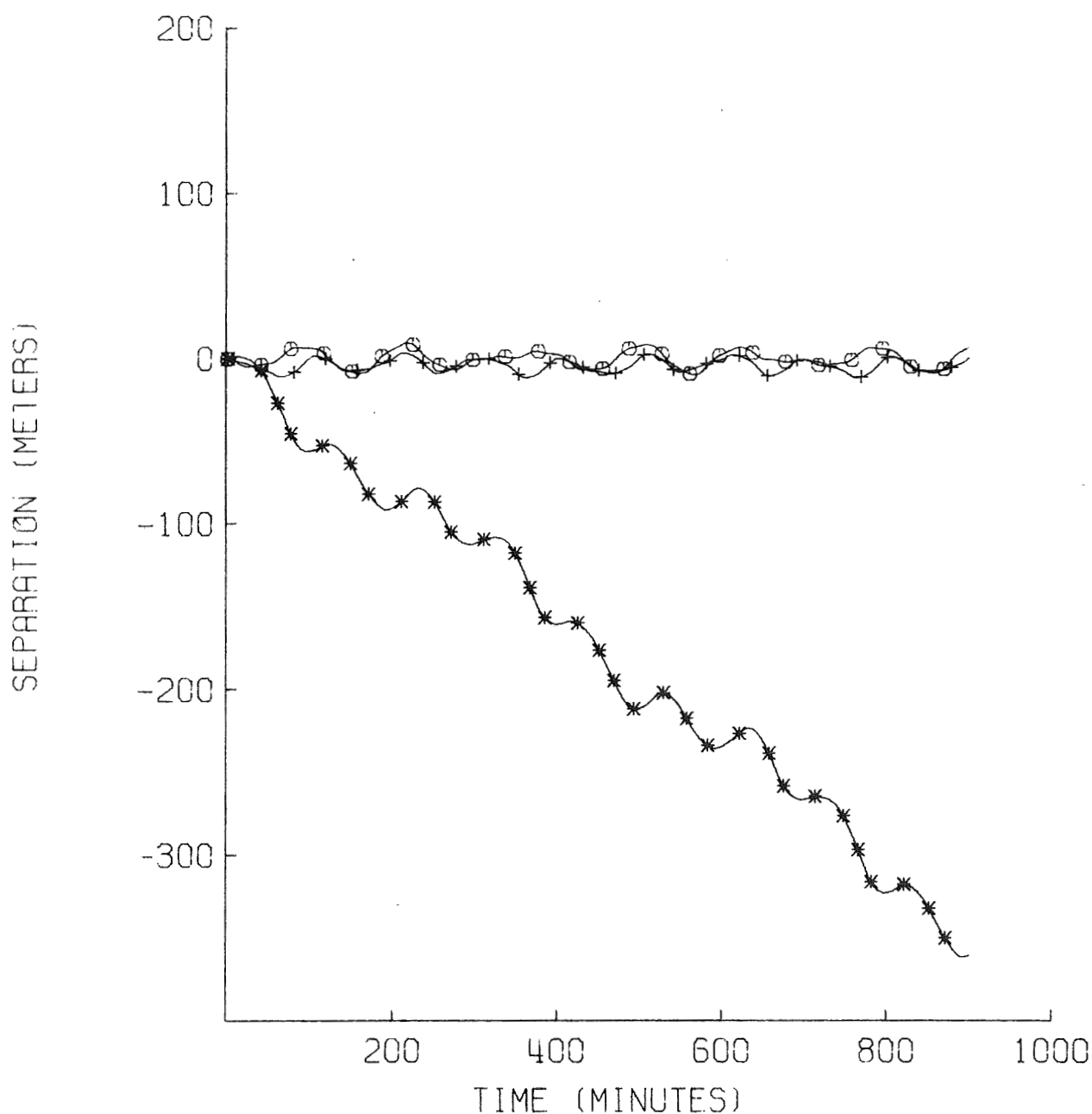
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(4 , 4) = .3065
 FACTOR USED IS 1.000000

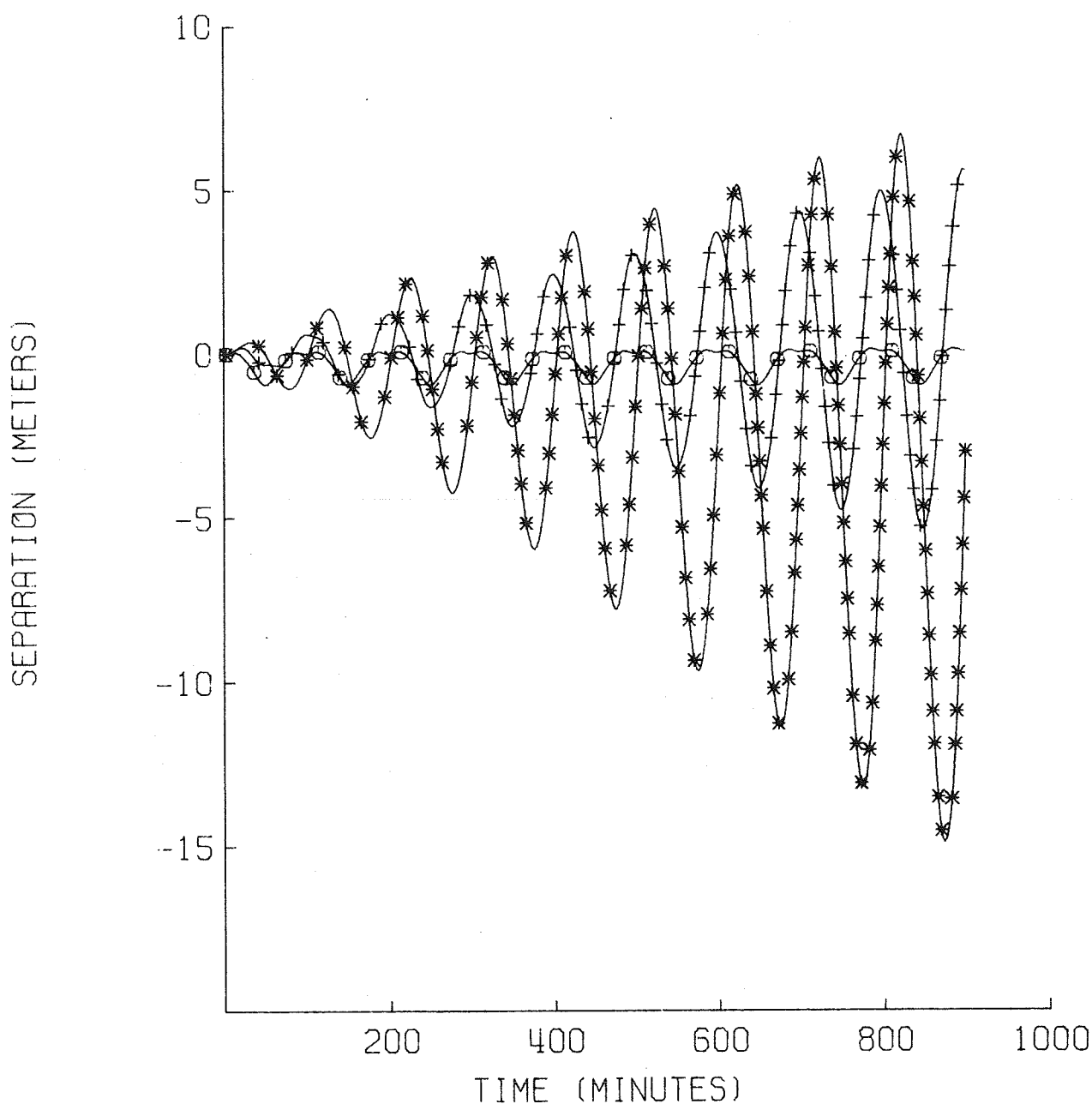
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C	OMEGA	I	E	A
0.0000	0.0000	0.0000		45.00000	.00500000	7136.6535

RUN FOR C(5 , 0) = .0296
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

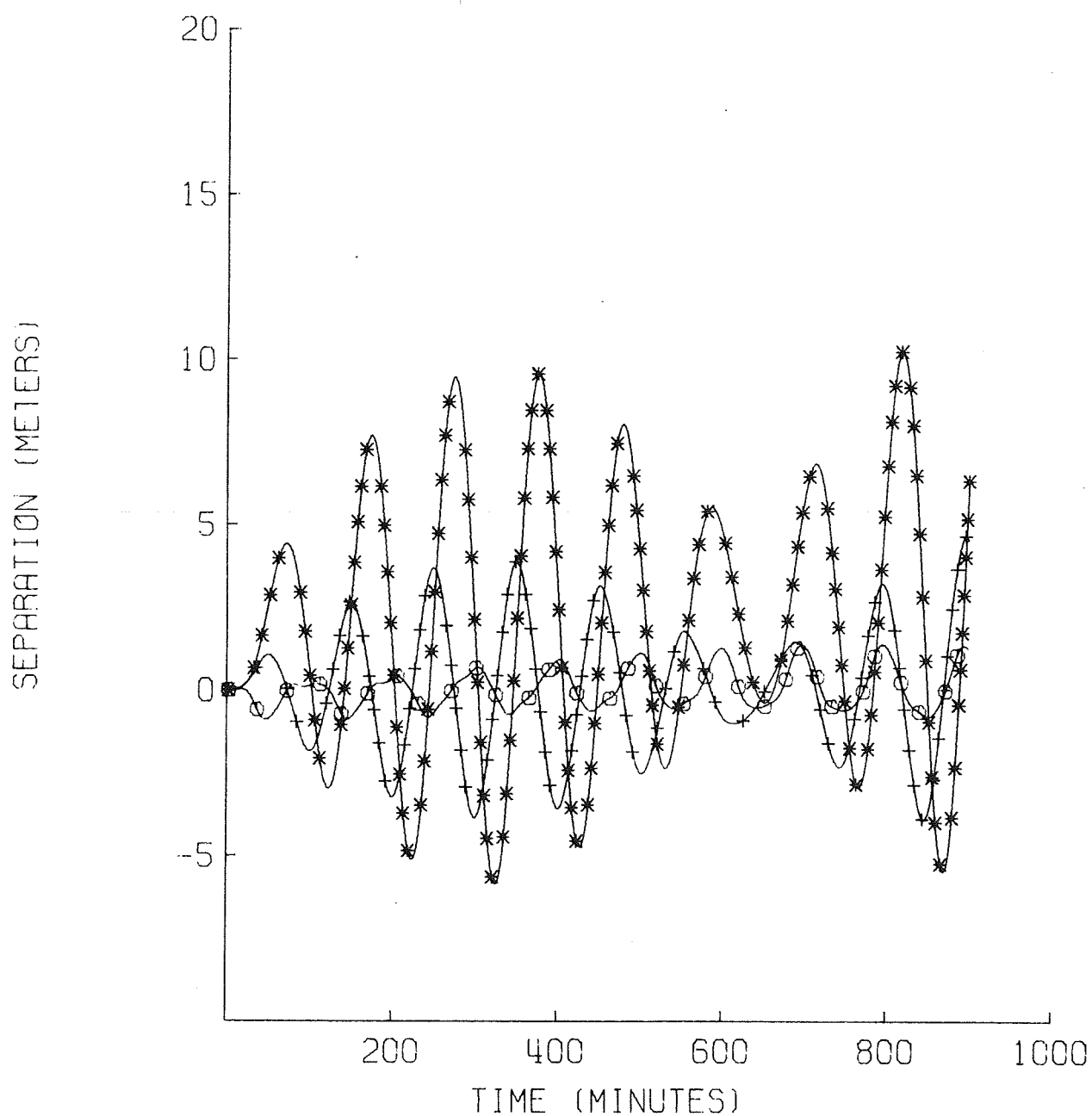
RUN FOR C(5 , 1) = -.0670

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

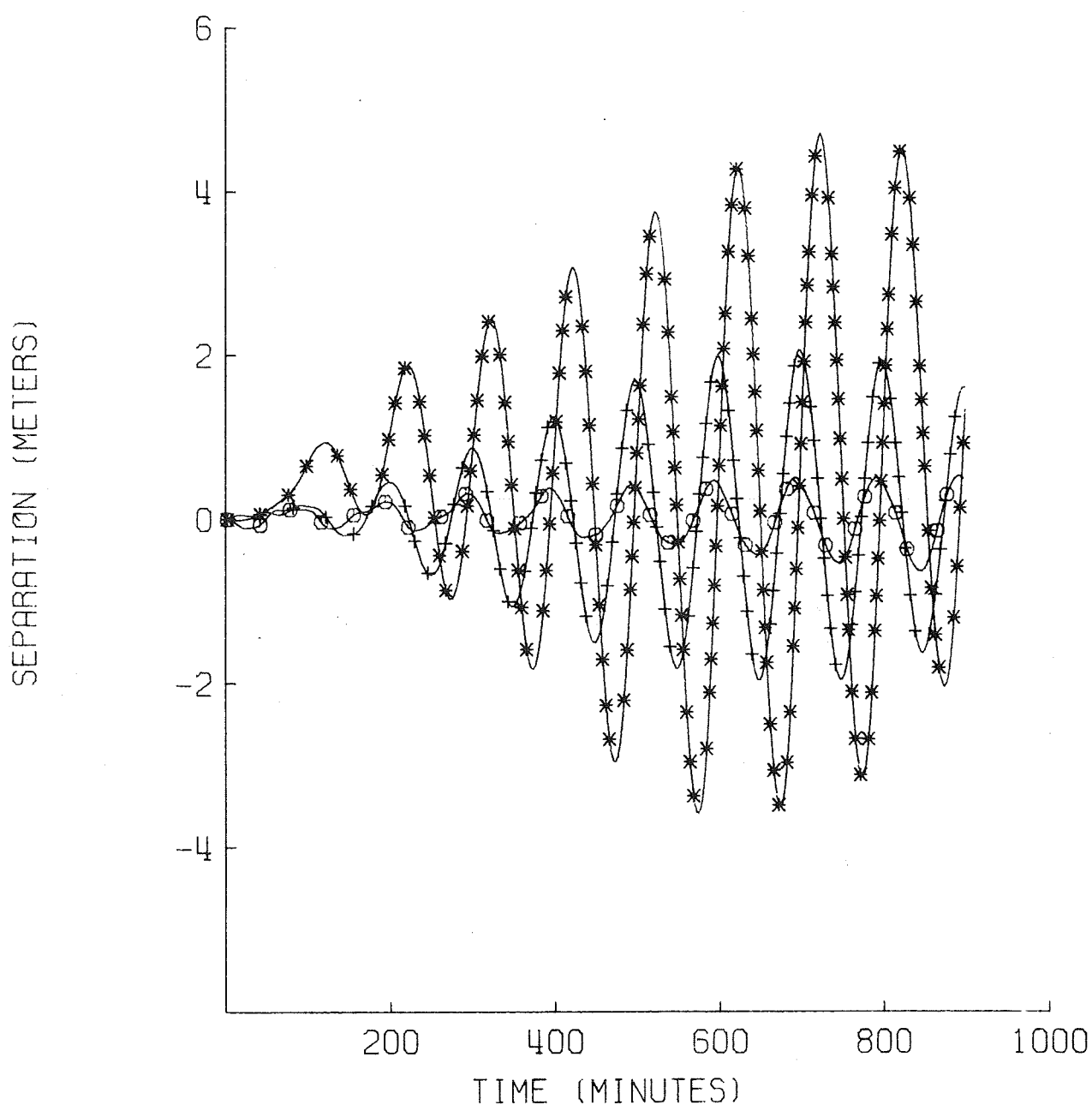
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(5 , 1) = -.0161
 FACTOR USED IS 1.000000

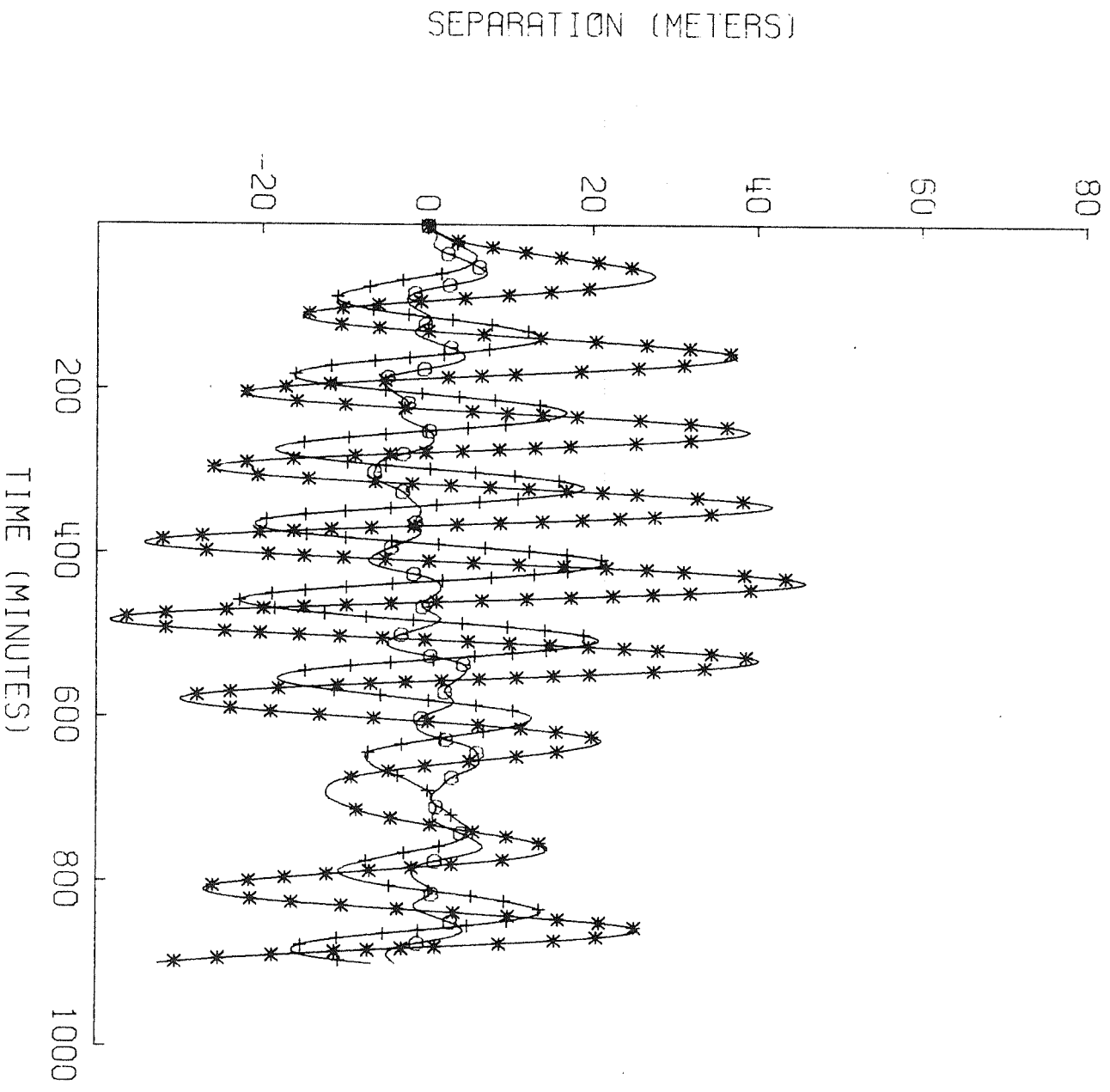
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C	OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535	

RUN FOR C(5, 2) = .3934
 FACTOR USED IS 1.000000

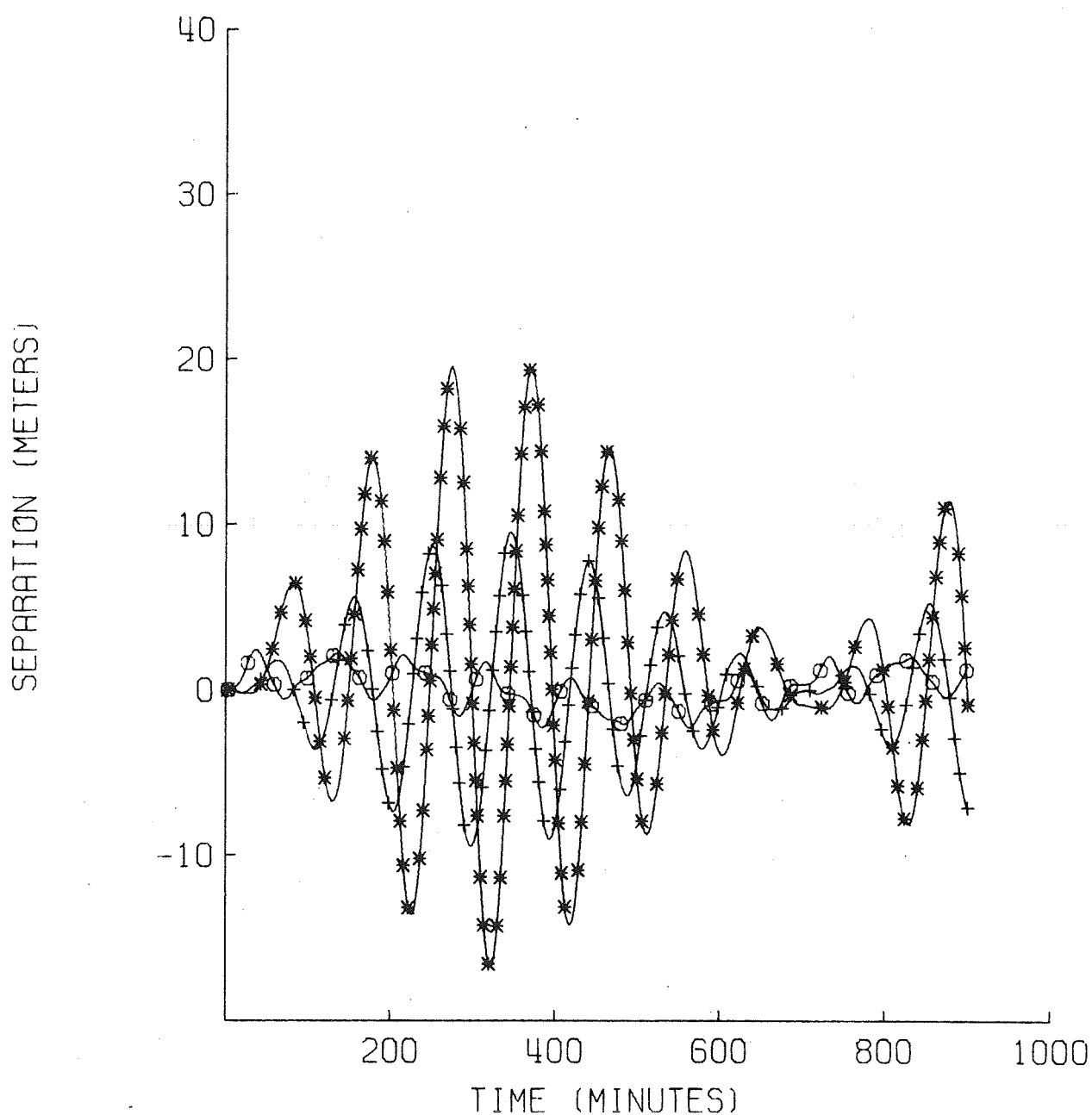
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(5 , 2) = -.1339
 FACTOR USED IS 1.000000

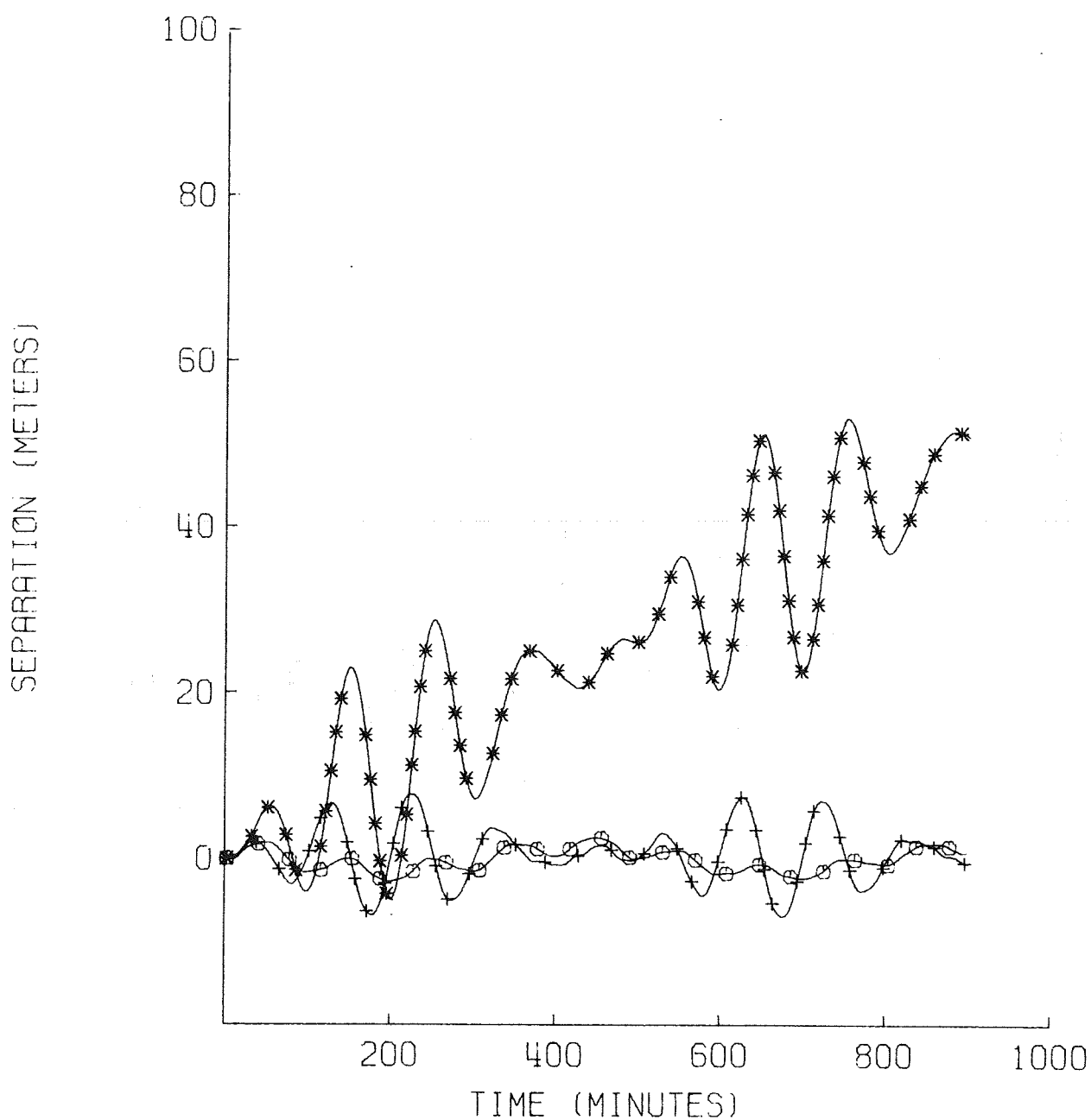
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(5 , 3) = -.1203
 FACTOR USED IS 1.000000

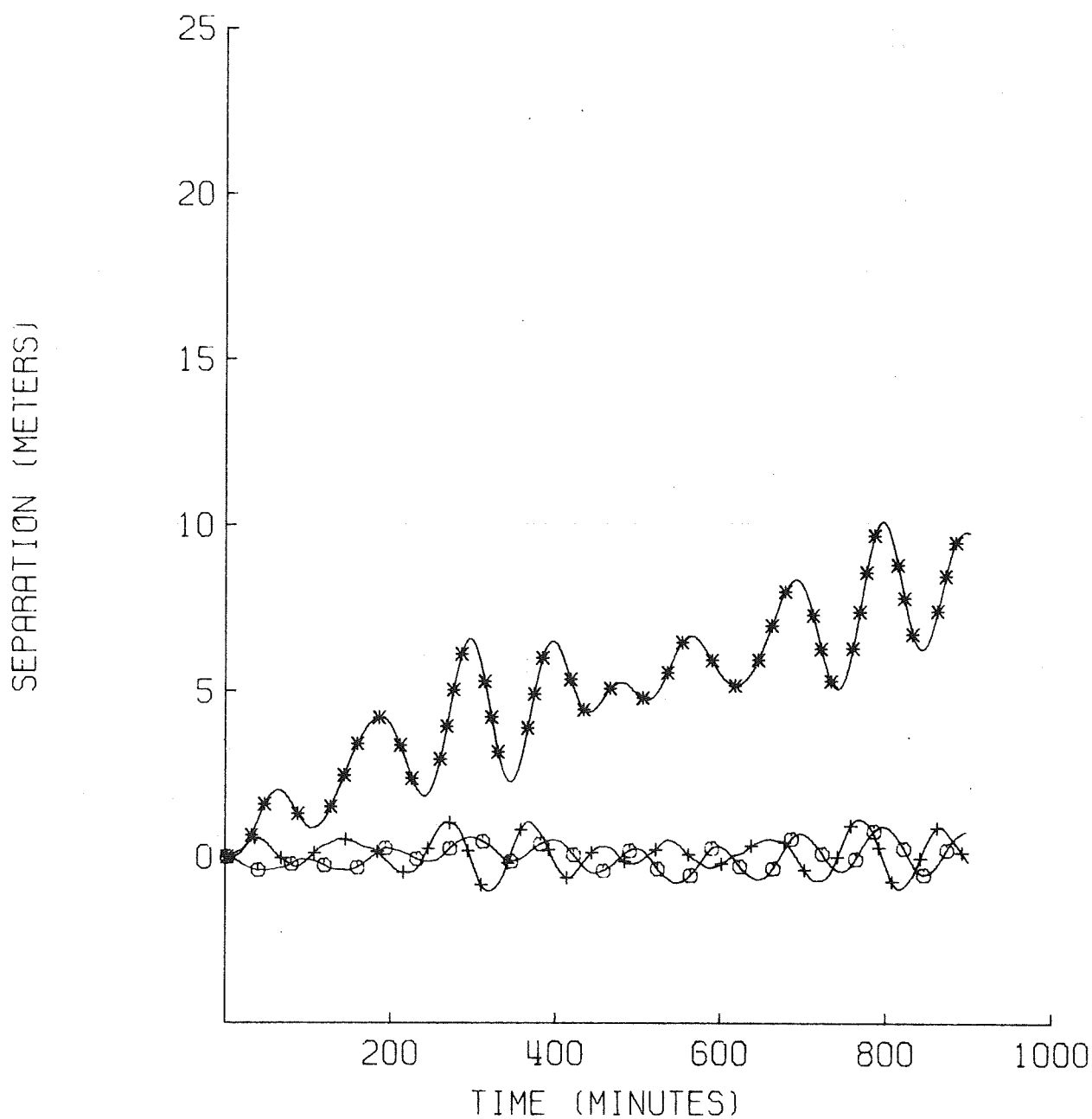
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(5 , 3) = -.0209
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M OMEGA C OMEGA I E A
 0.0000 0.0000 0.0000 45.00000 .00500000 7136.6535

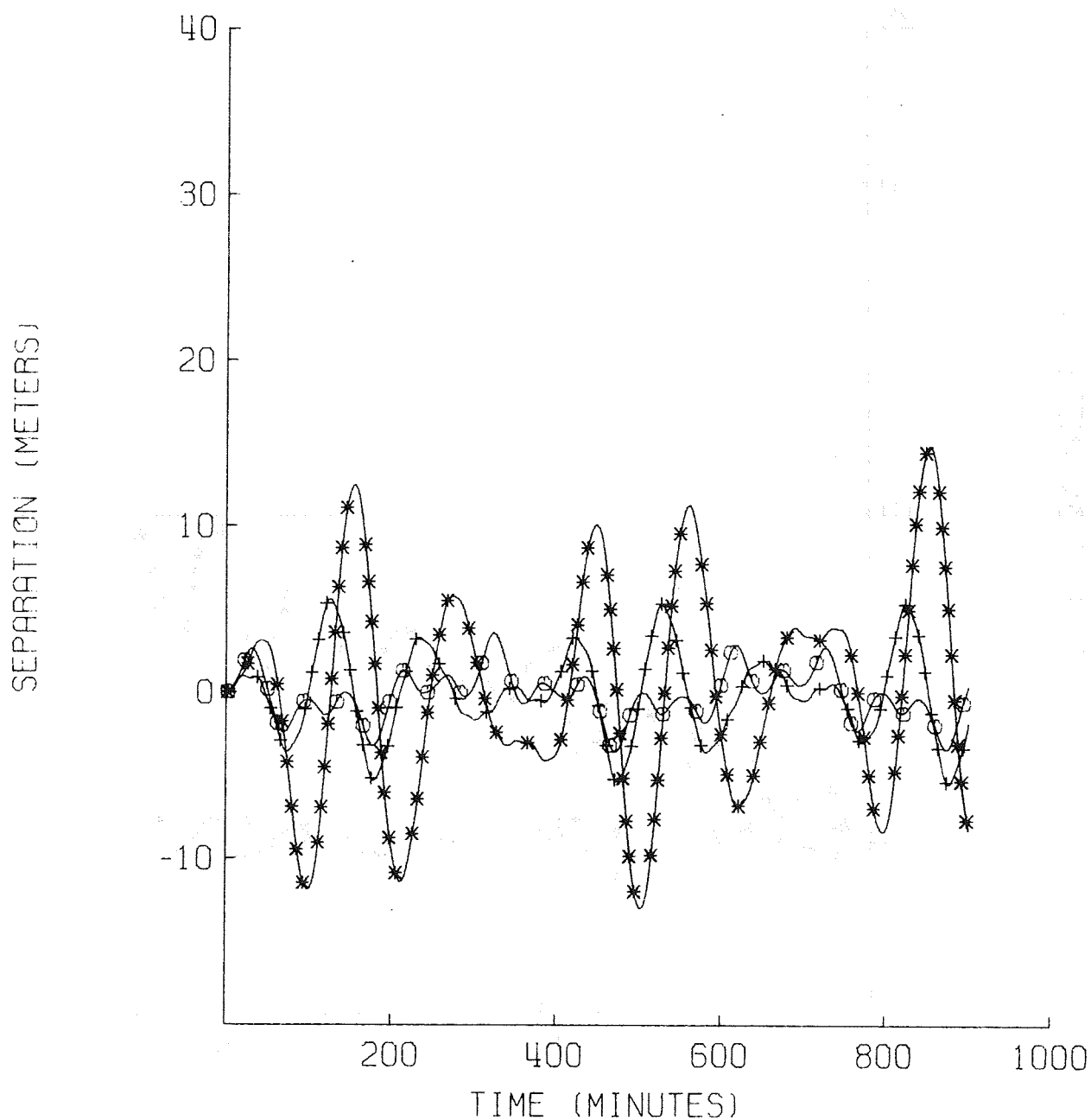
RUN FOR C(5 , 4) = .1371

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

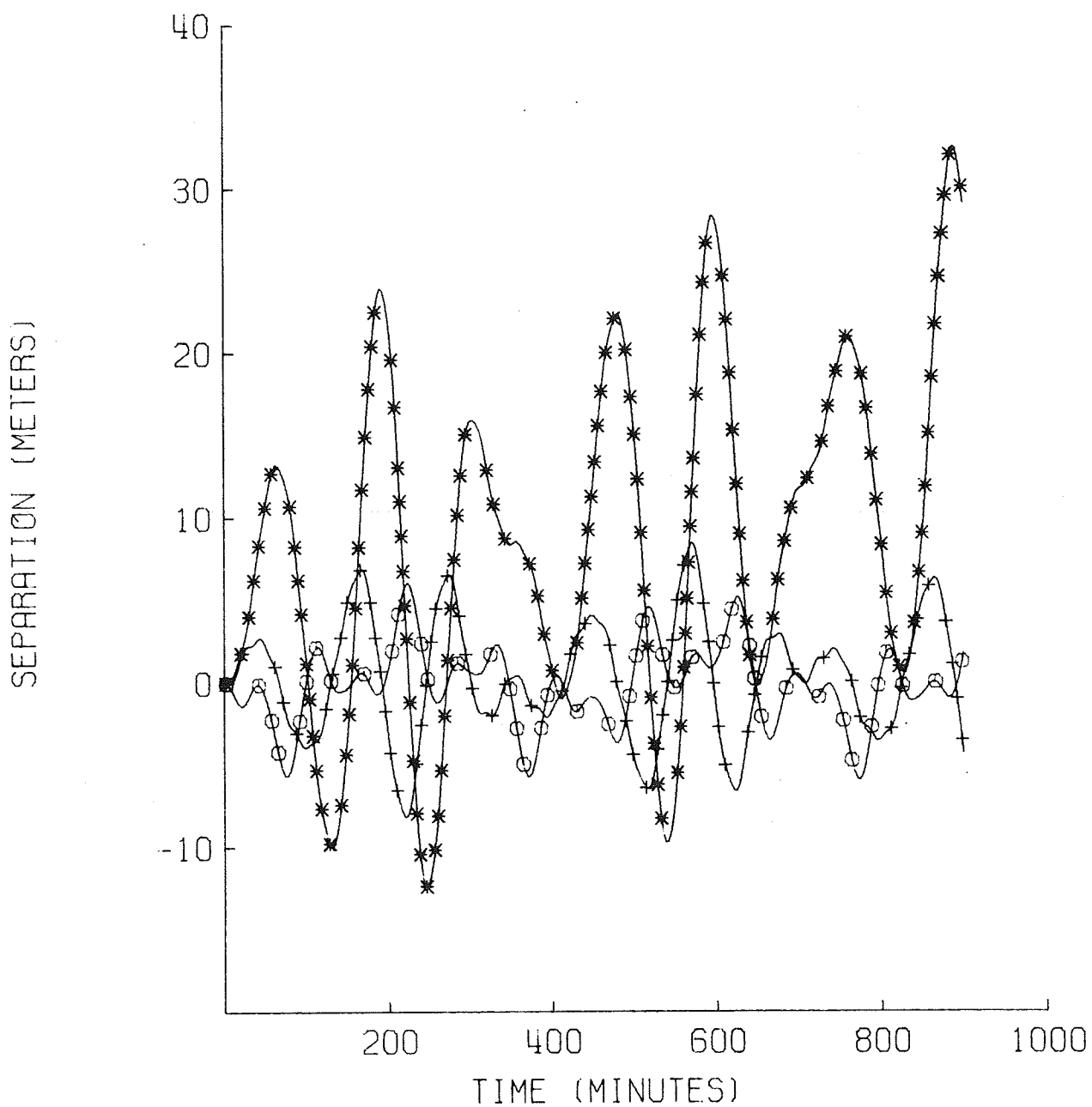
(⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(5 ,4) = .2119
 FACTOR USED IS 1.000000

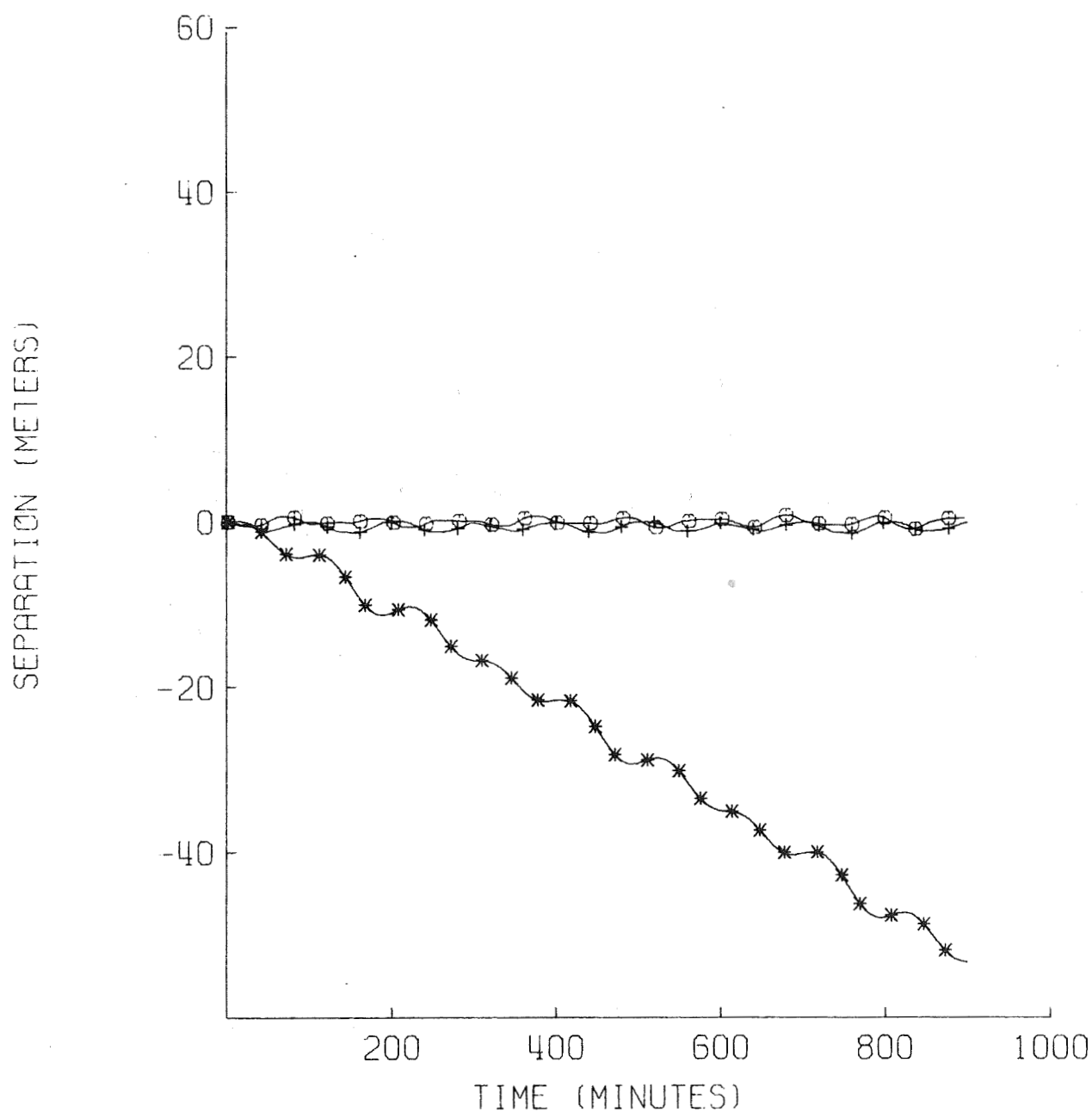
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(5 ,5) = .0317
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊖) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

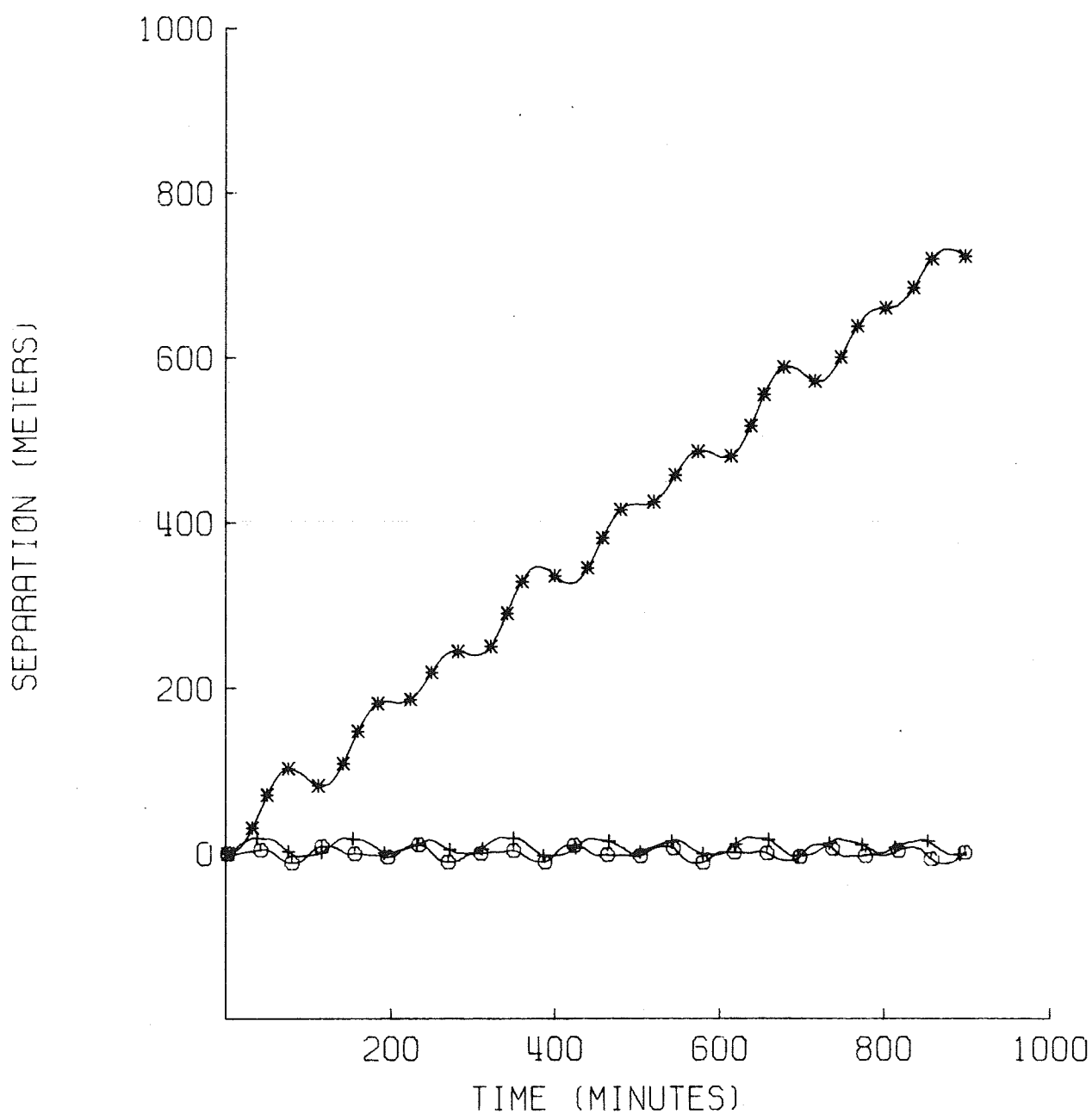
RUN FOR $S(5, 5) = -.5727$

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

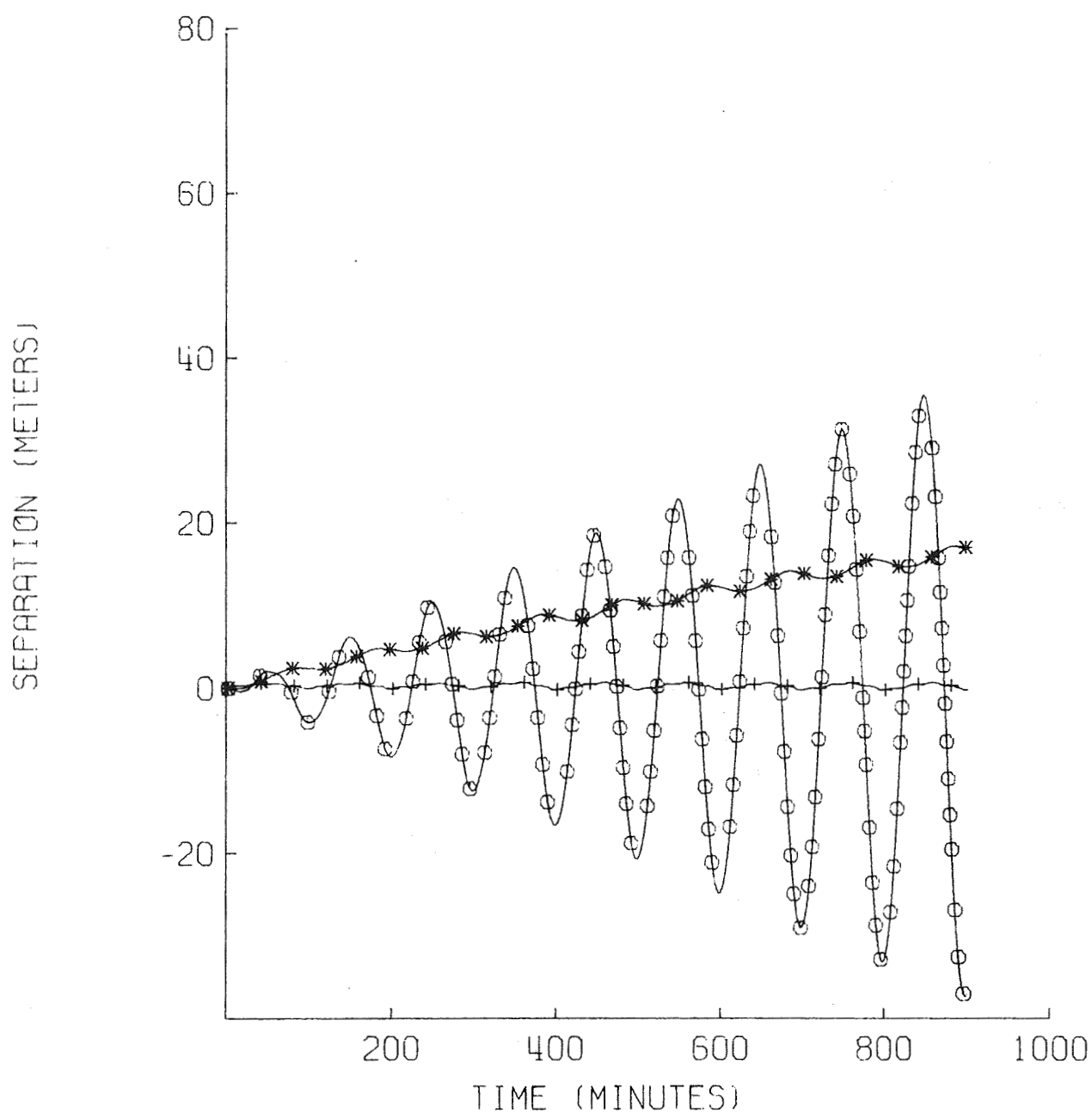
RUN FOR C(6 , 0) = -.0703

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

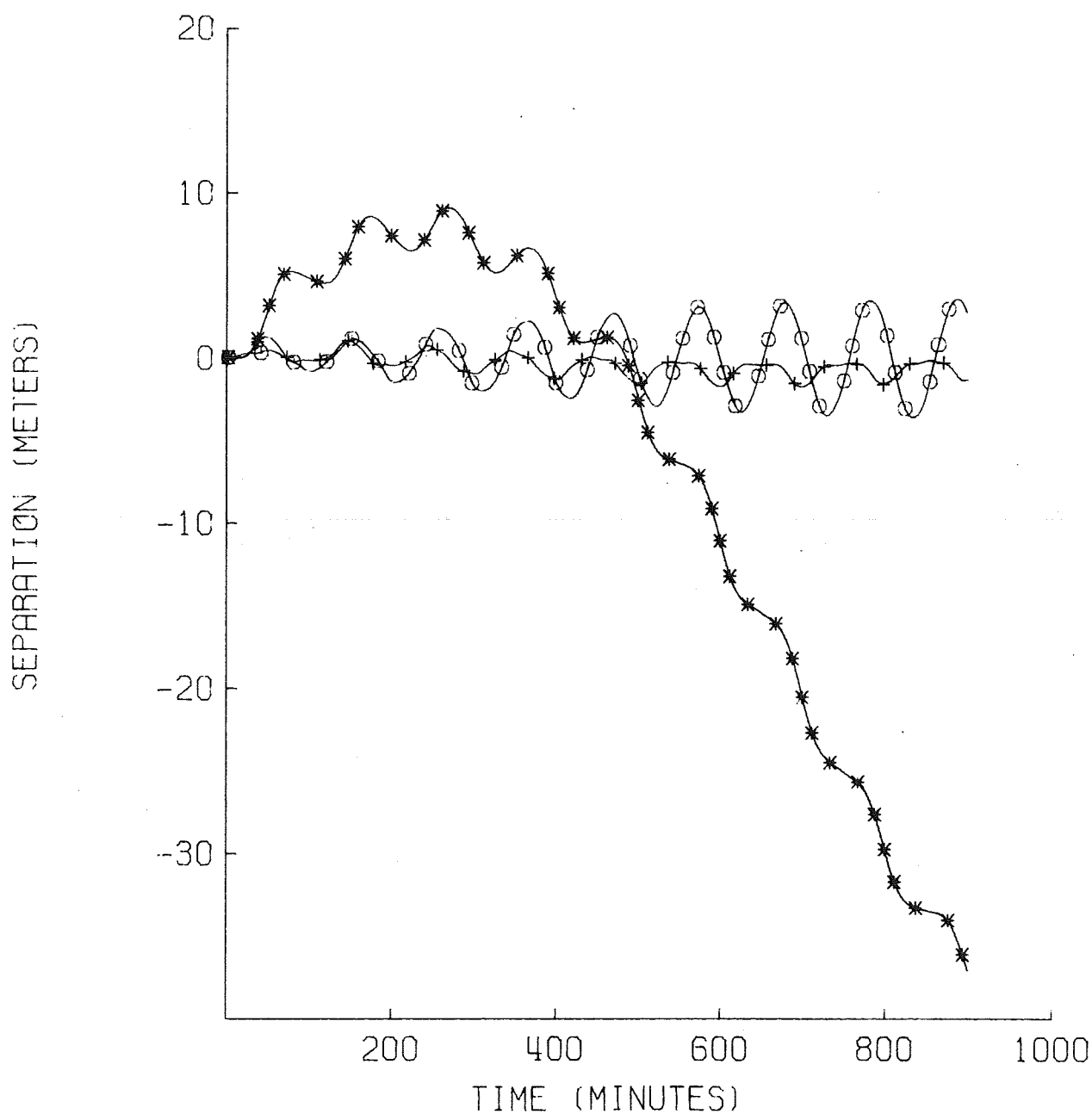
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(6 , 1) = -.0834
 FACTOR USED IS 1.000000

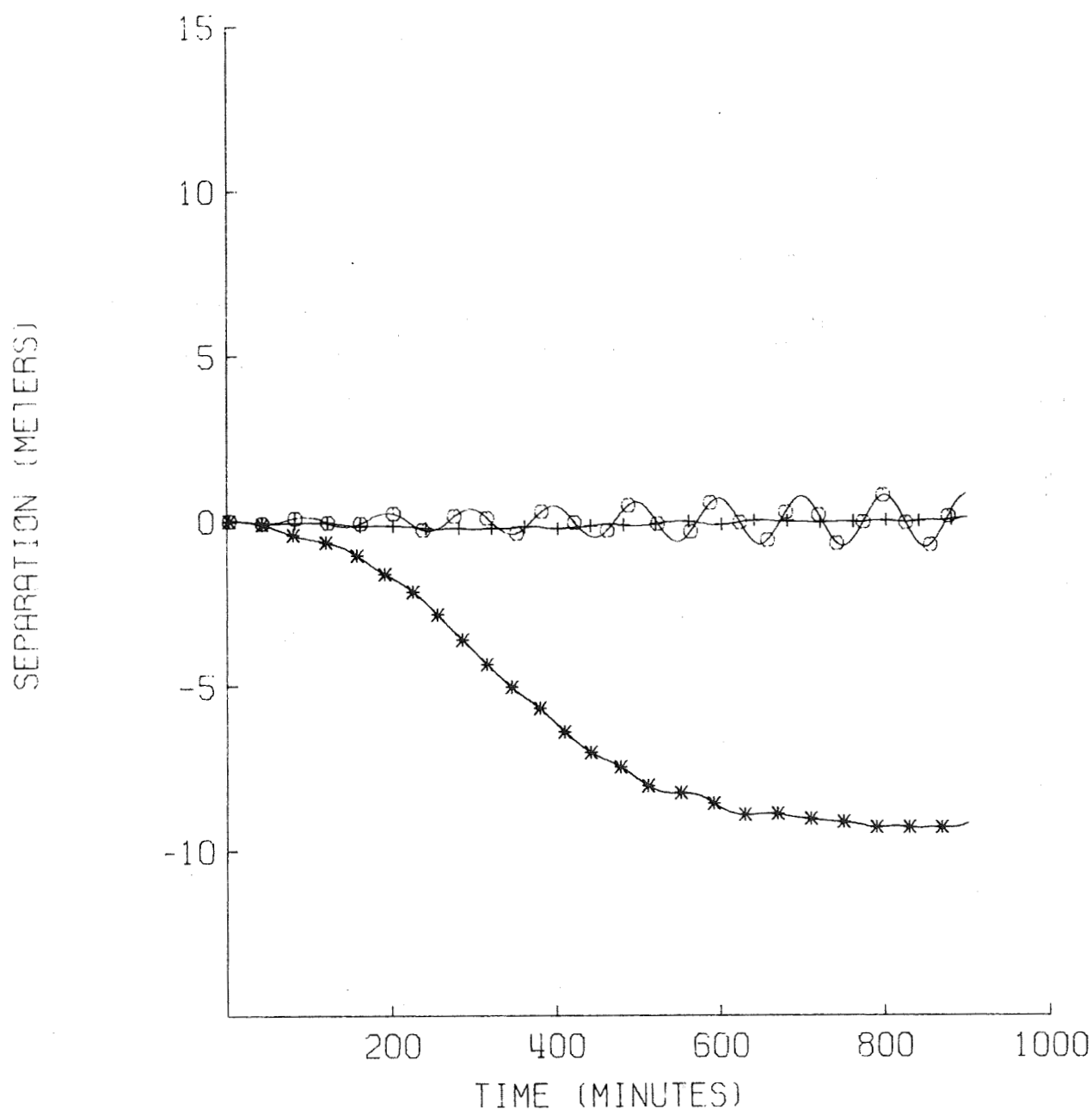
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(6 , 1) = -.0062
 FACTOR USED IS 1.000000

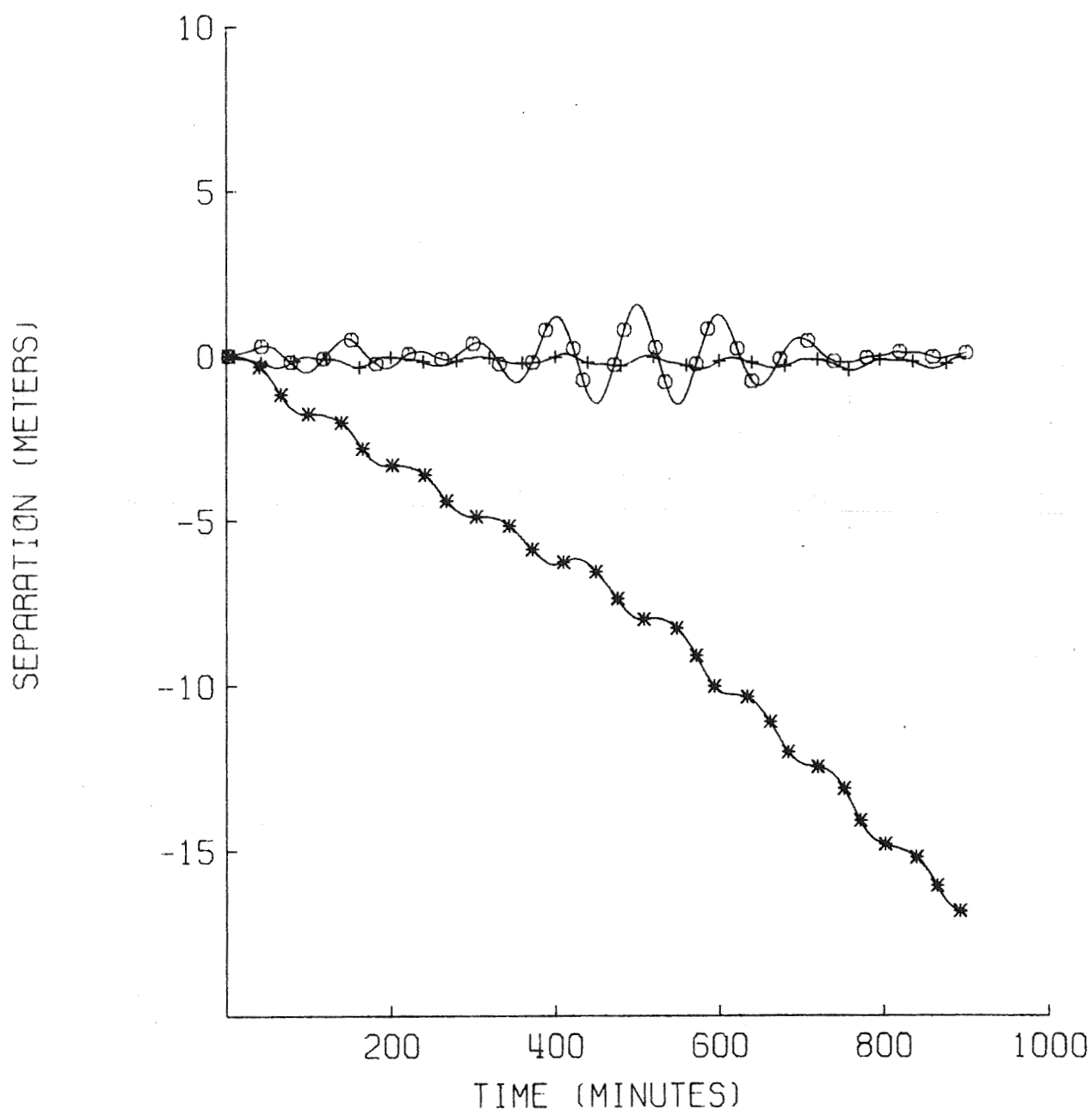
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(6 , 2) = .0153
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

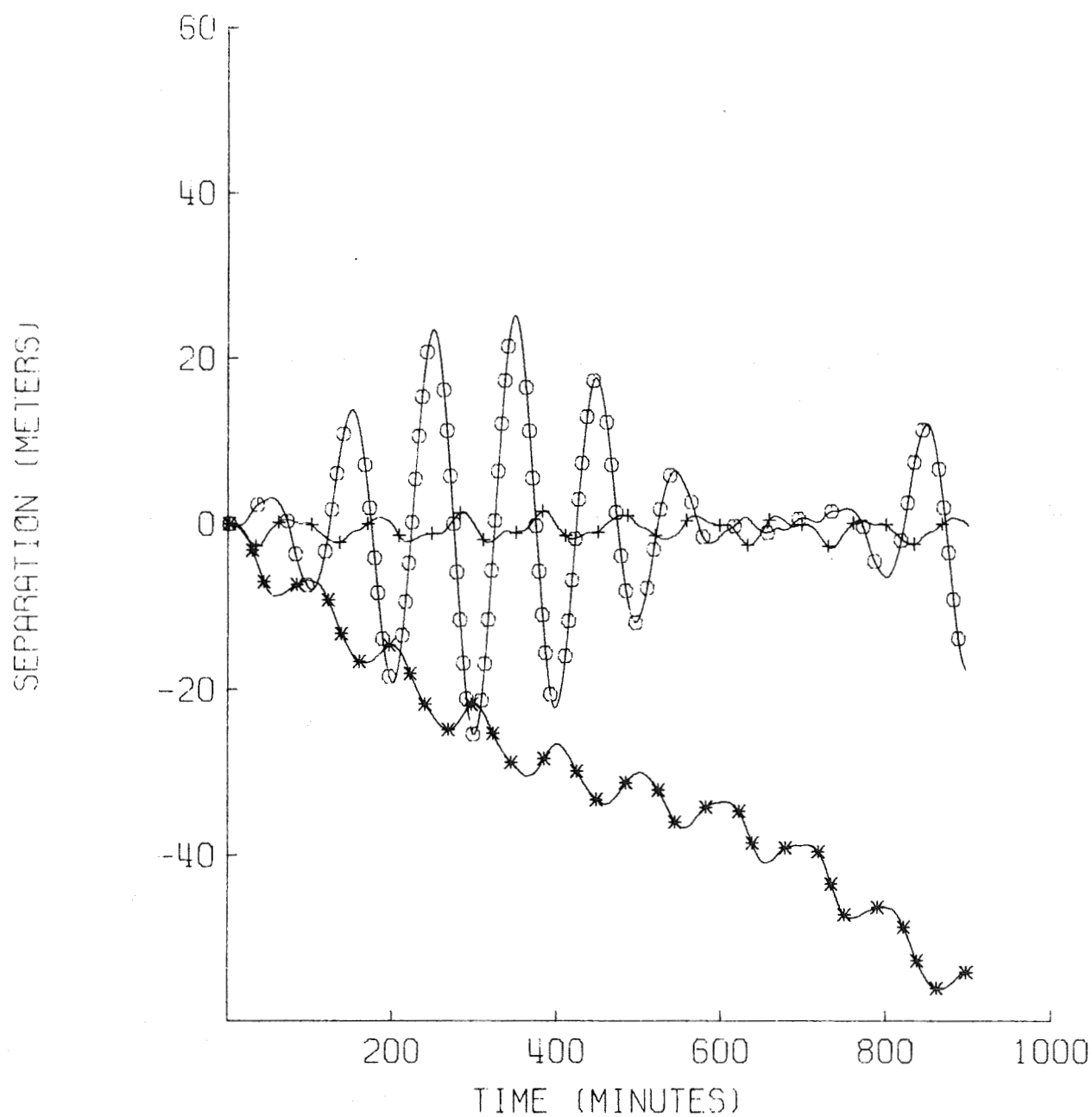
RUN FOR S(6 , 2) = -.2185

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

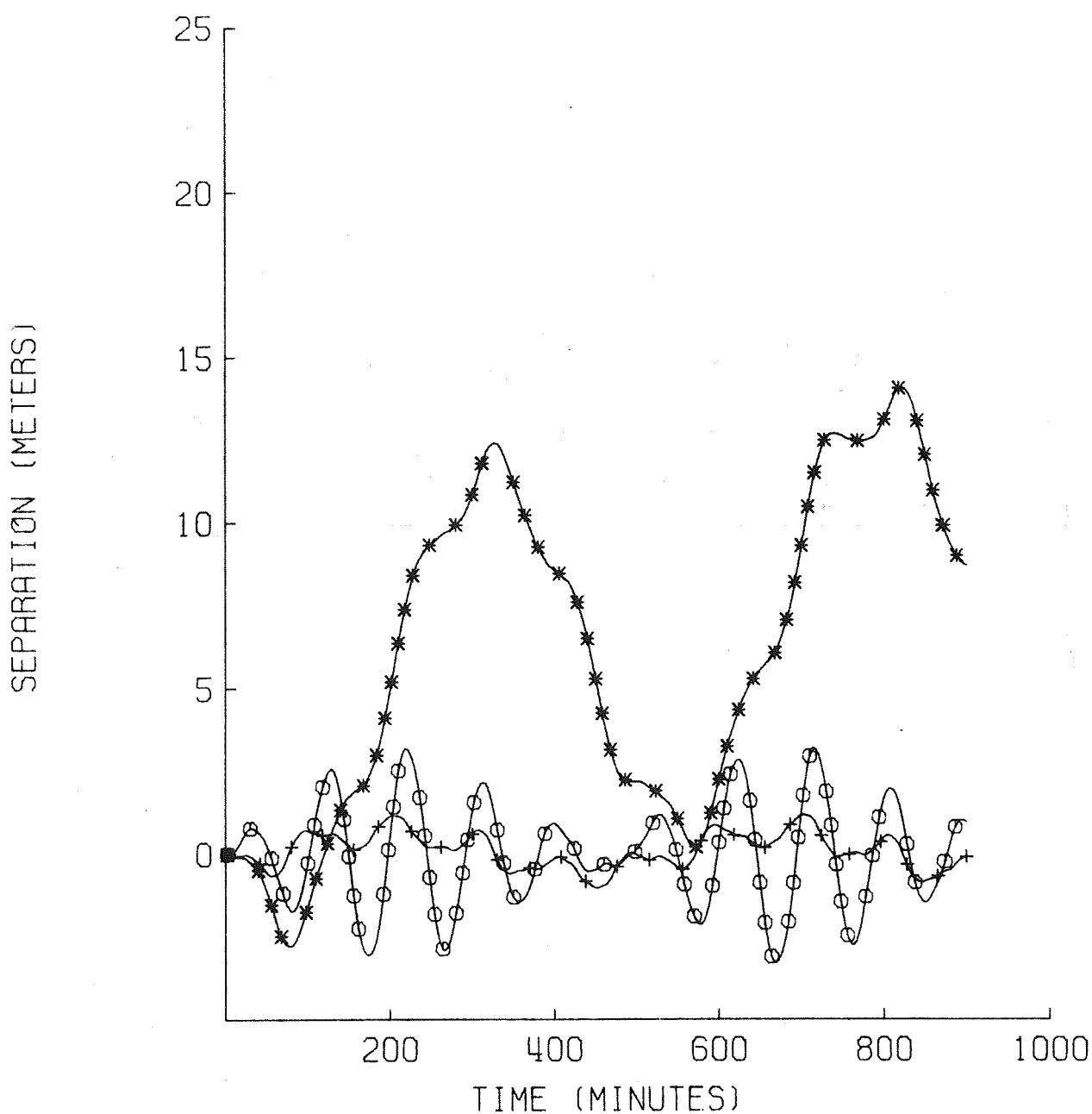
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(6 ,3) = -.0486
 FACTOR USED IS 1.000000

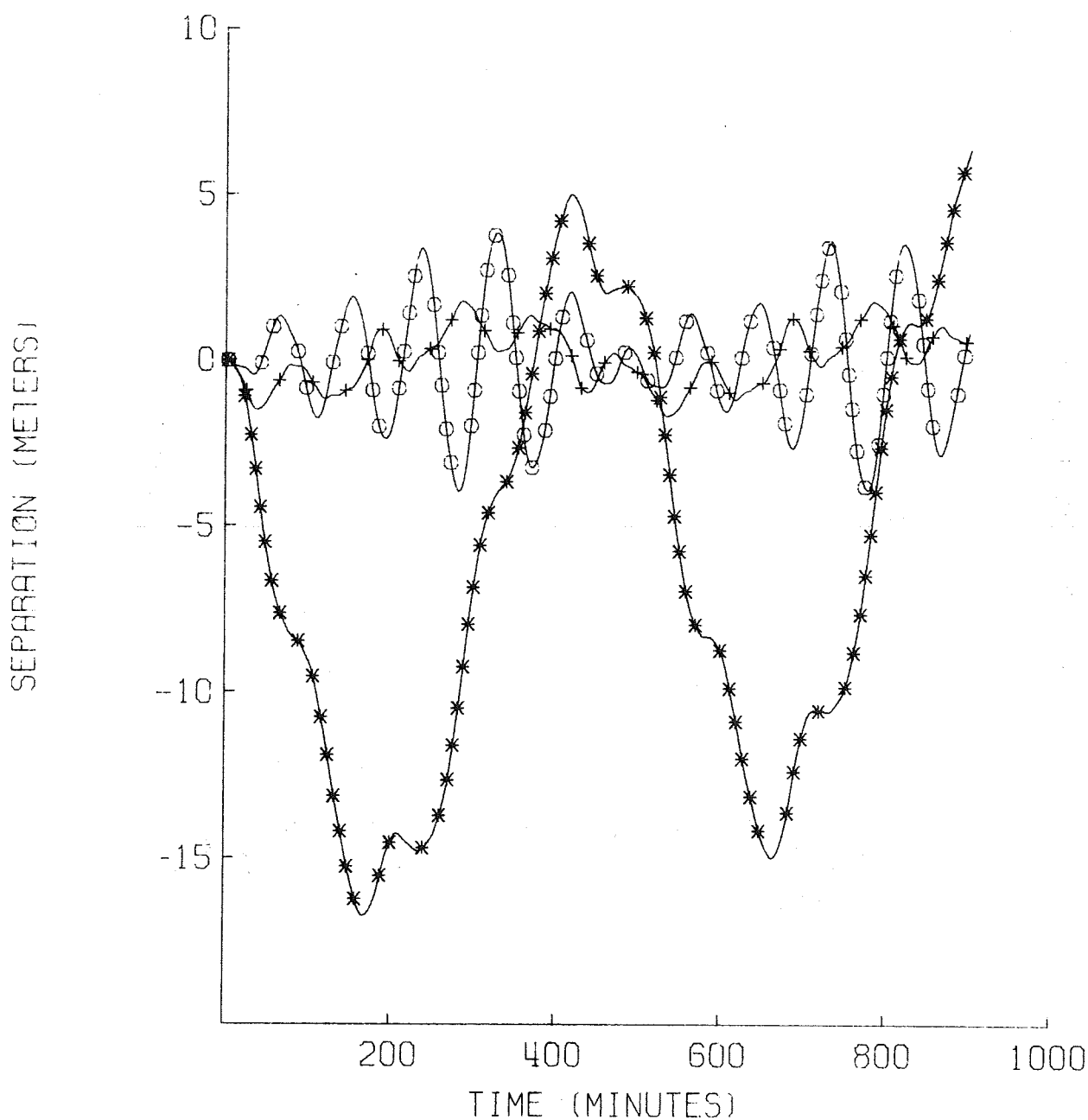
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(6 ,3) = .0774
 FACTOR USED IS 1.000000

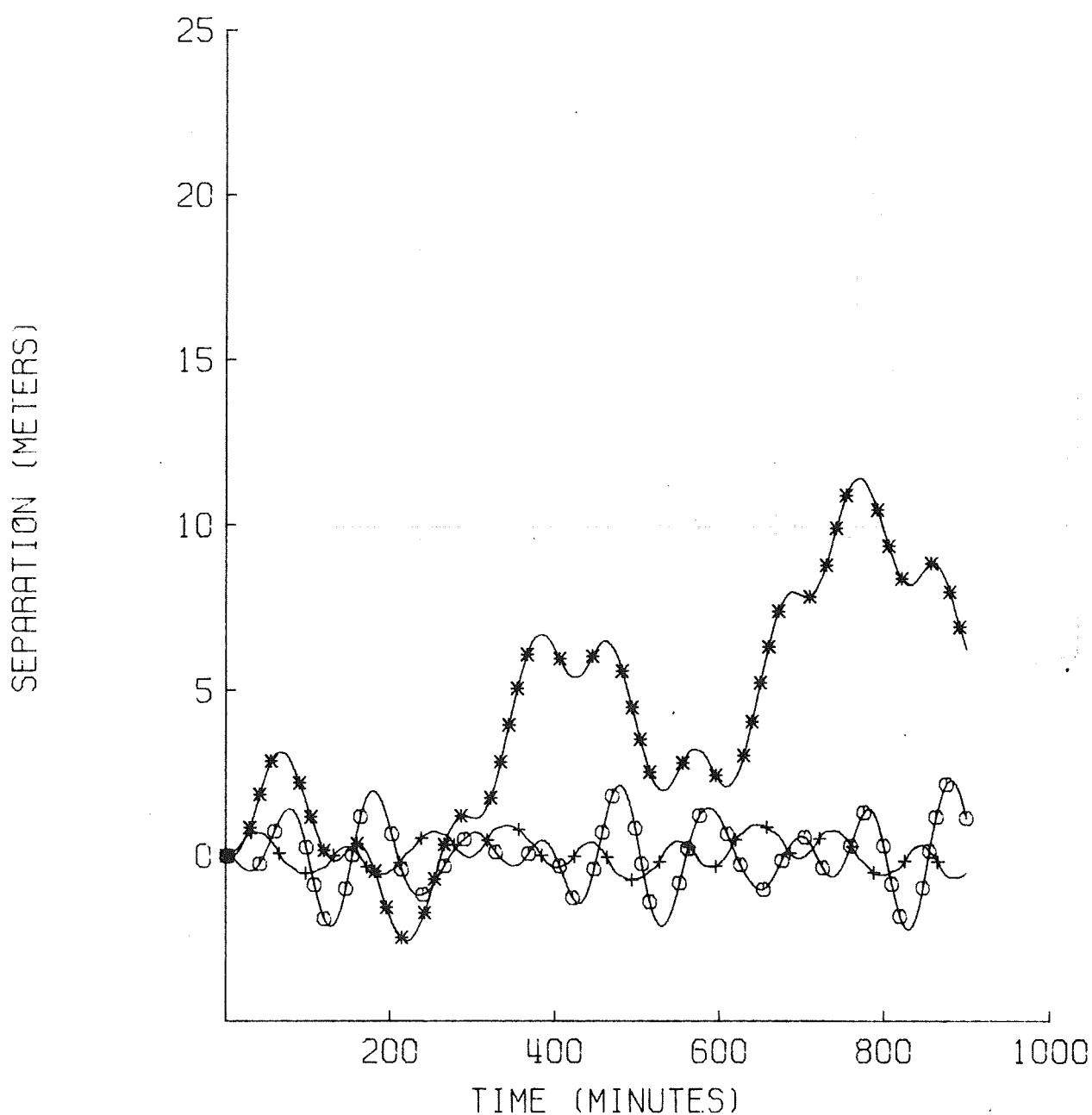
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(6 ,4) = -.0300
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

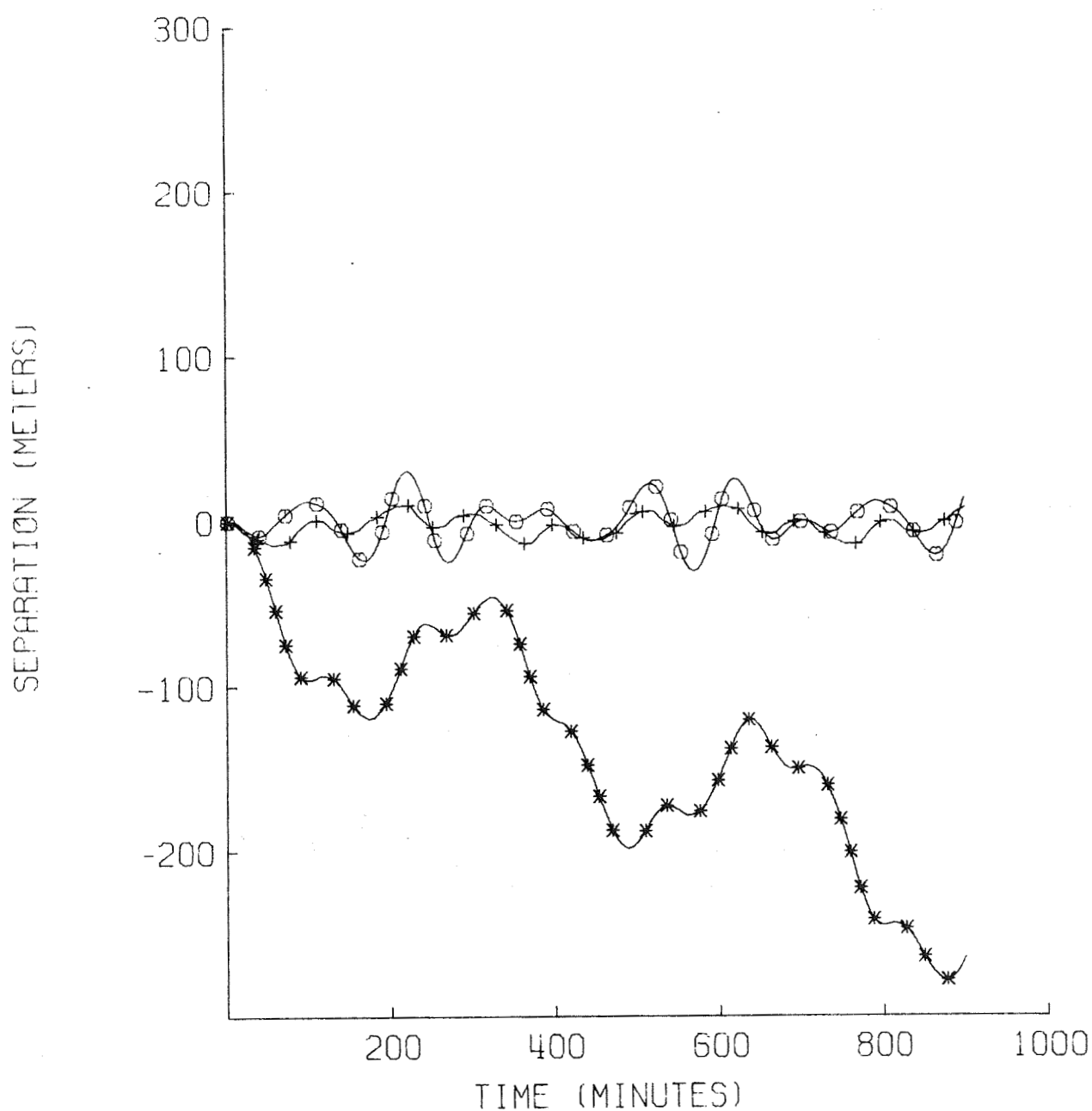
RUN FOR S(6 , 4) = -.4660

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

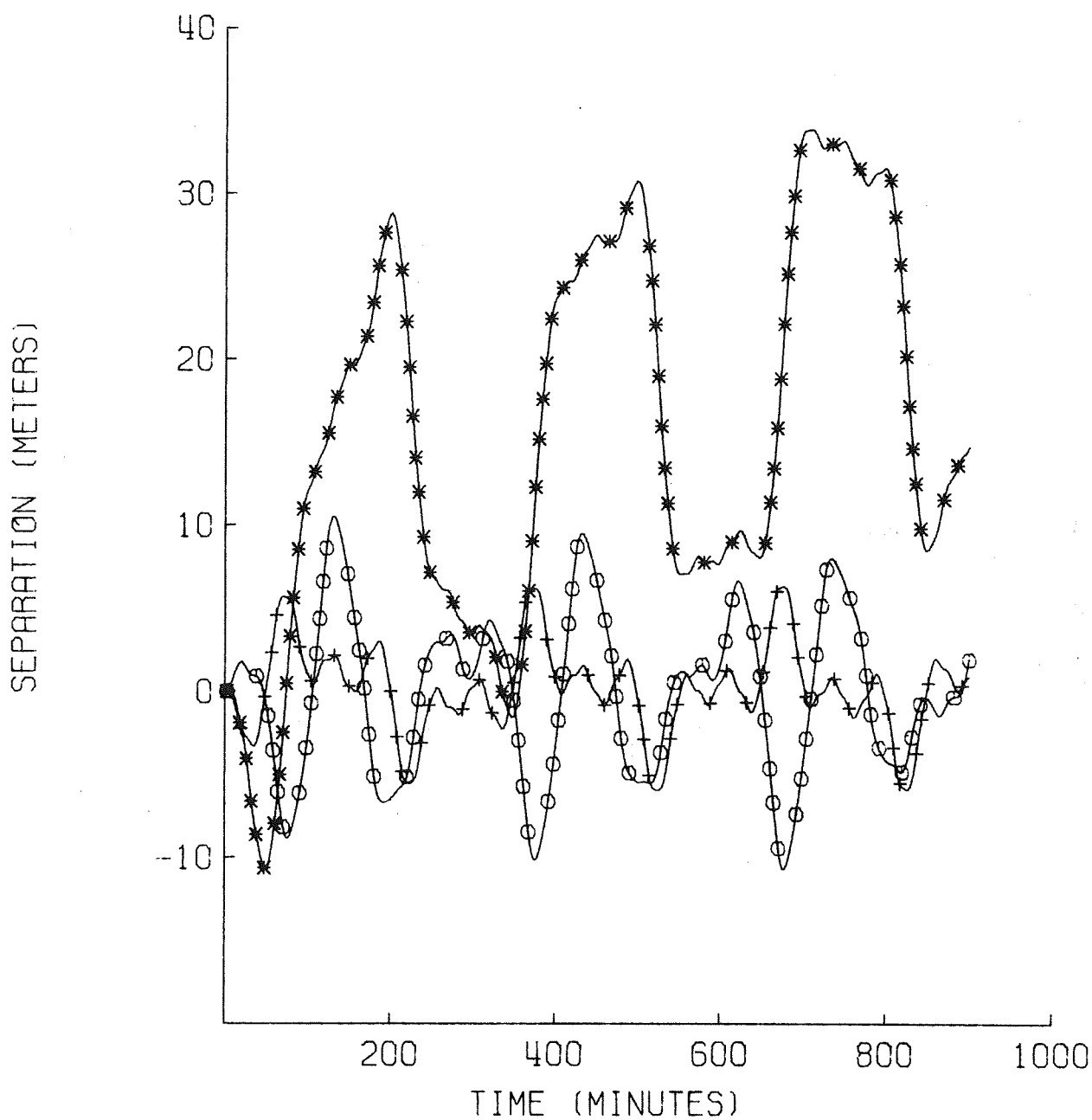
(⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(6 , 5) = -.2760
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7135.6535

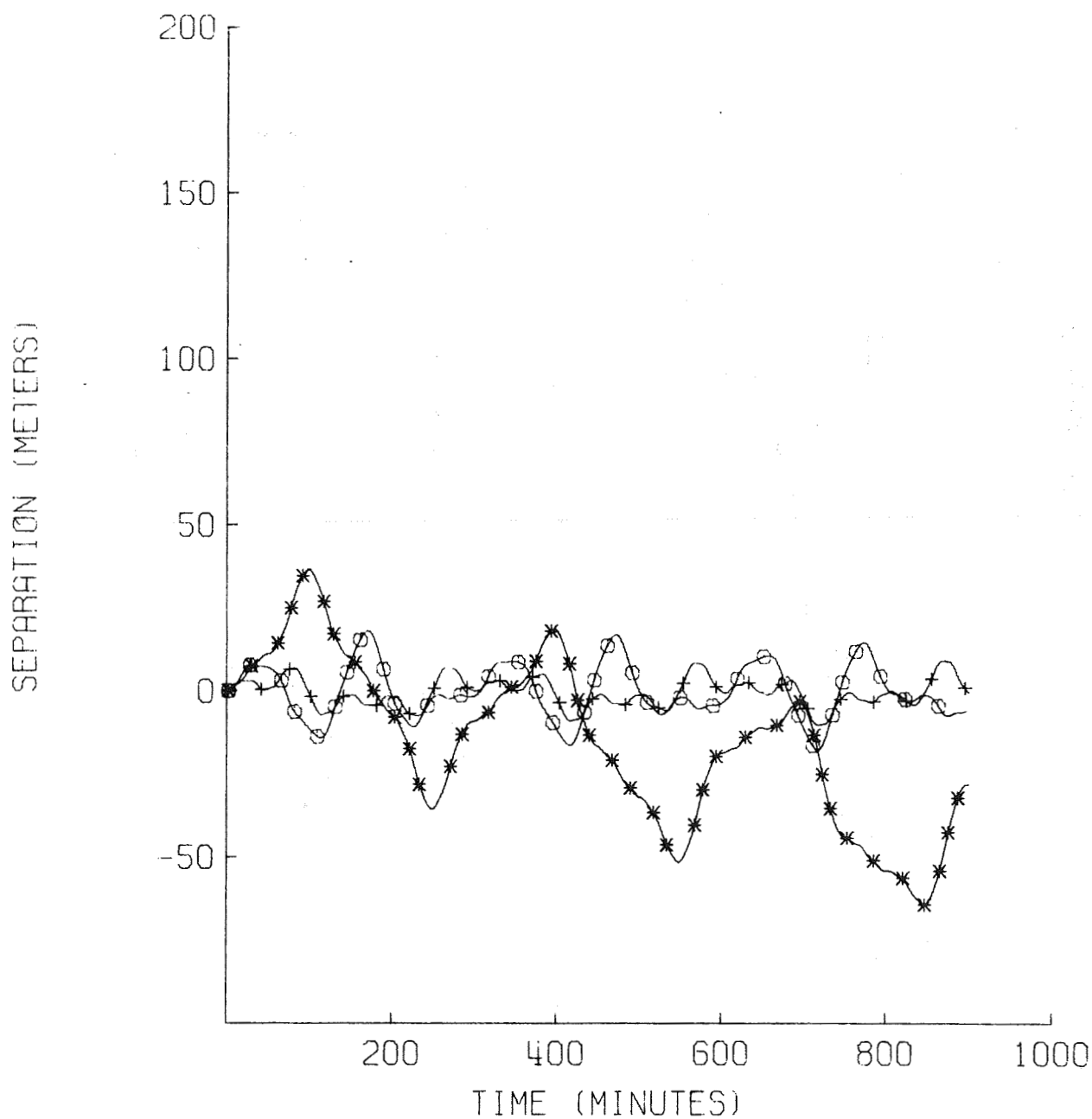
RUN FOR S(6 , 5) = -.4555

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

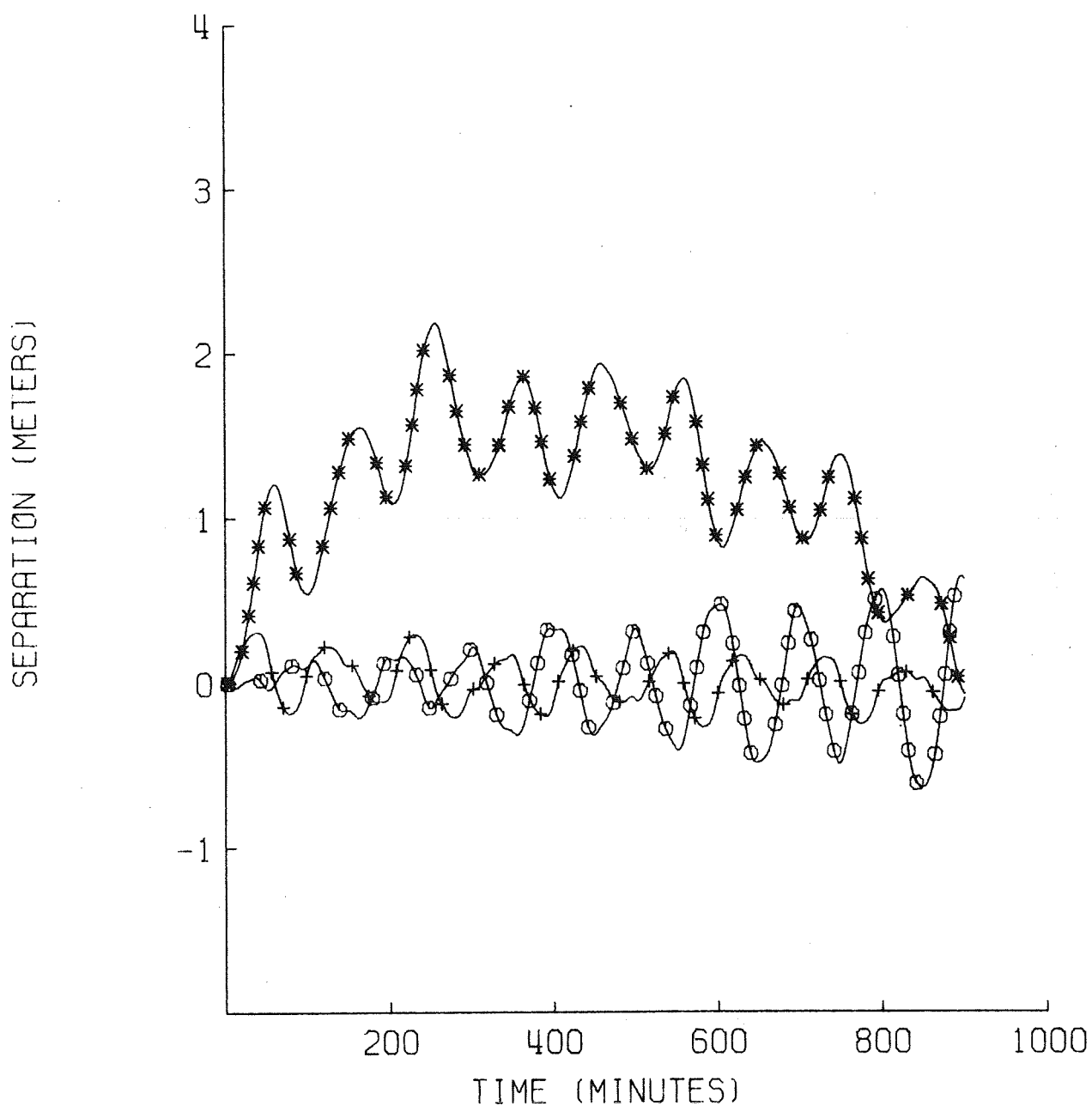
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(6 , 6) = -.0124
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

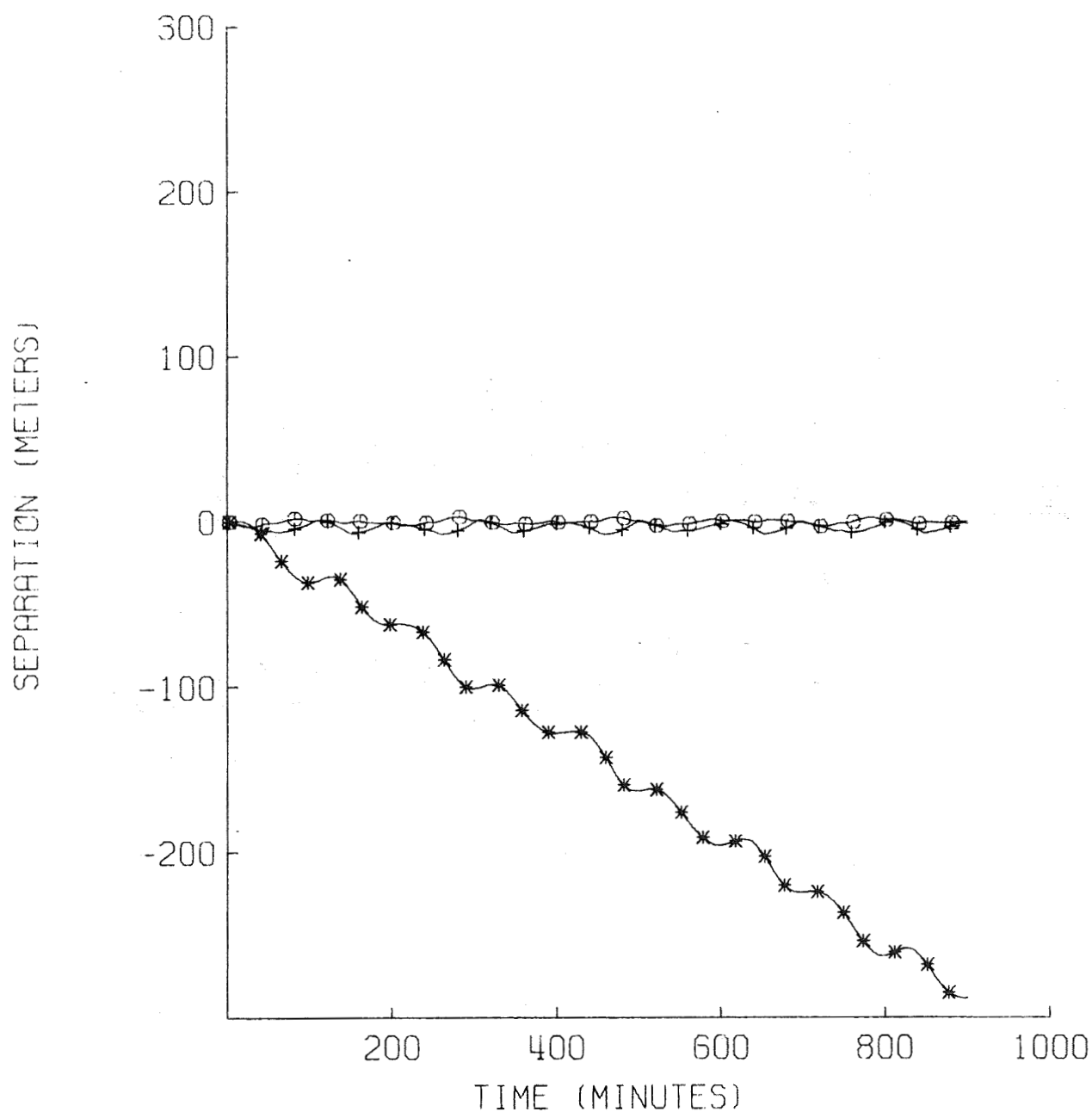
RUN FOR S(6 , 6) = -.2009

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

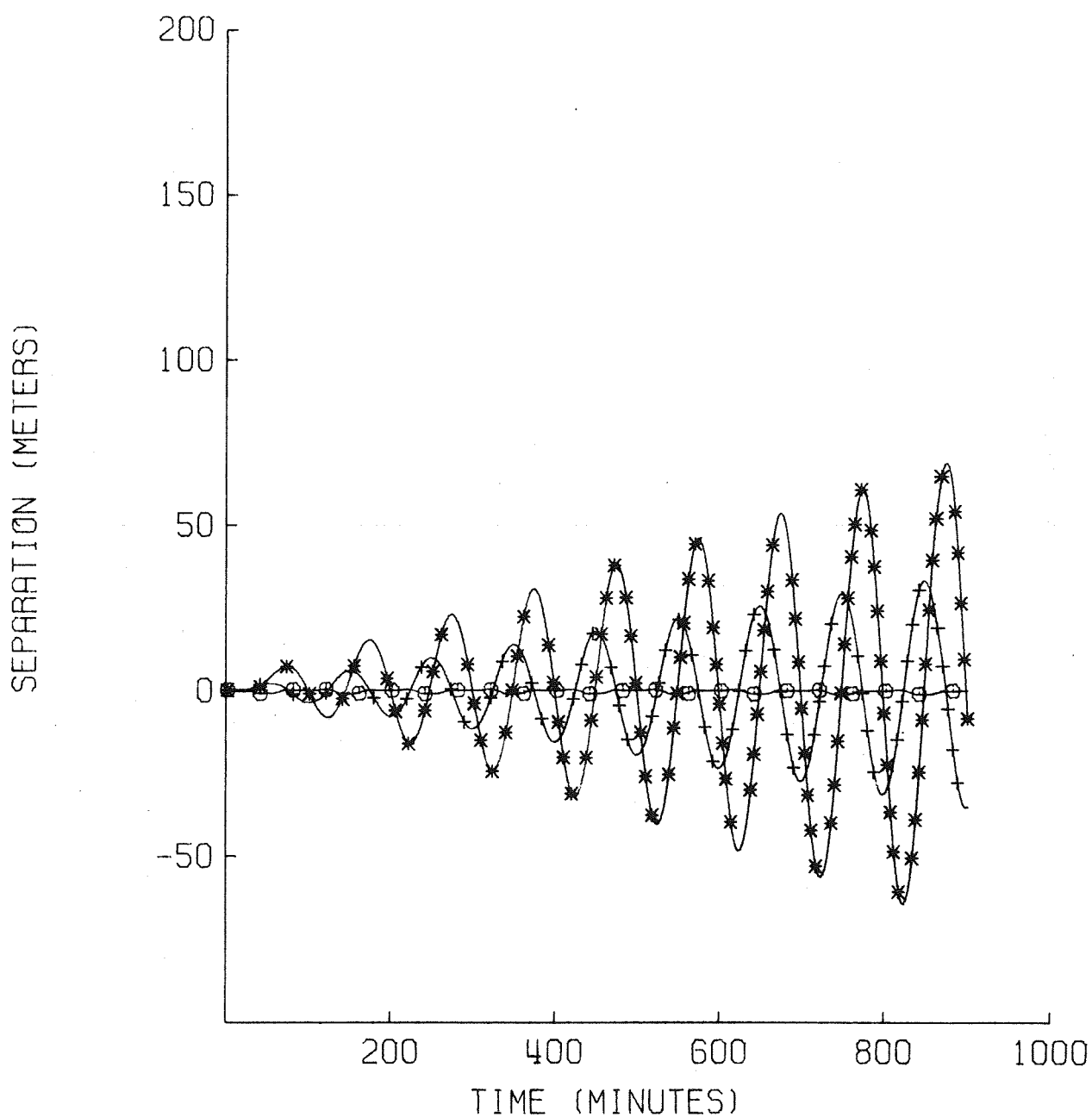
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(7 , 0) = .0890
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊖) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

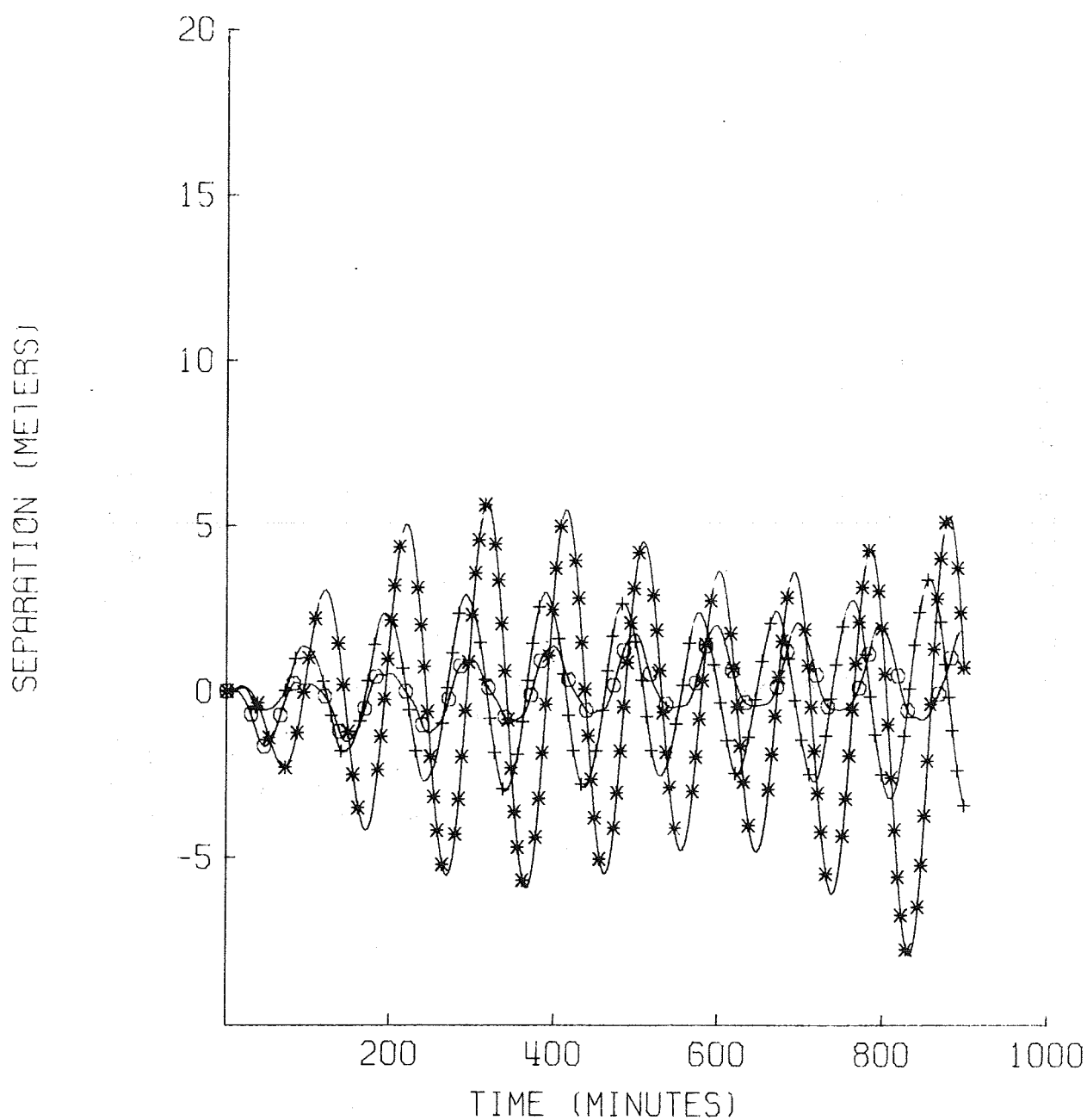
RUN FOR C(7,1) = .0996

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

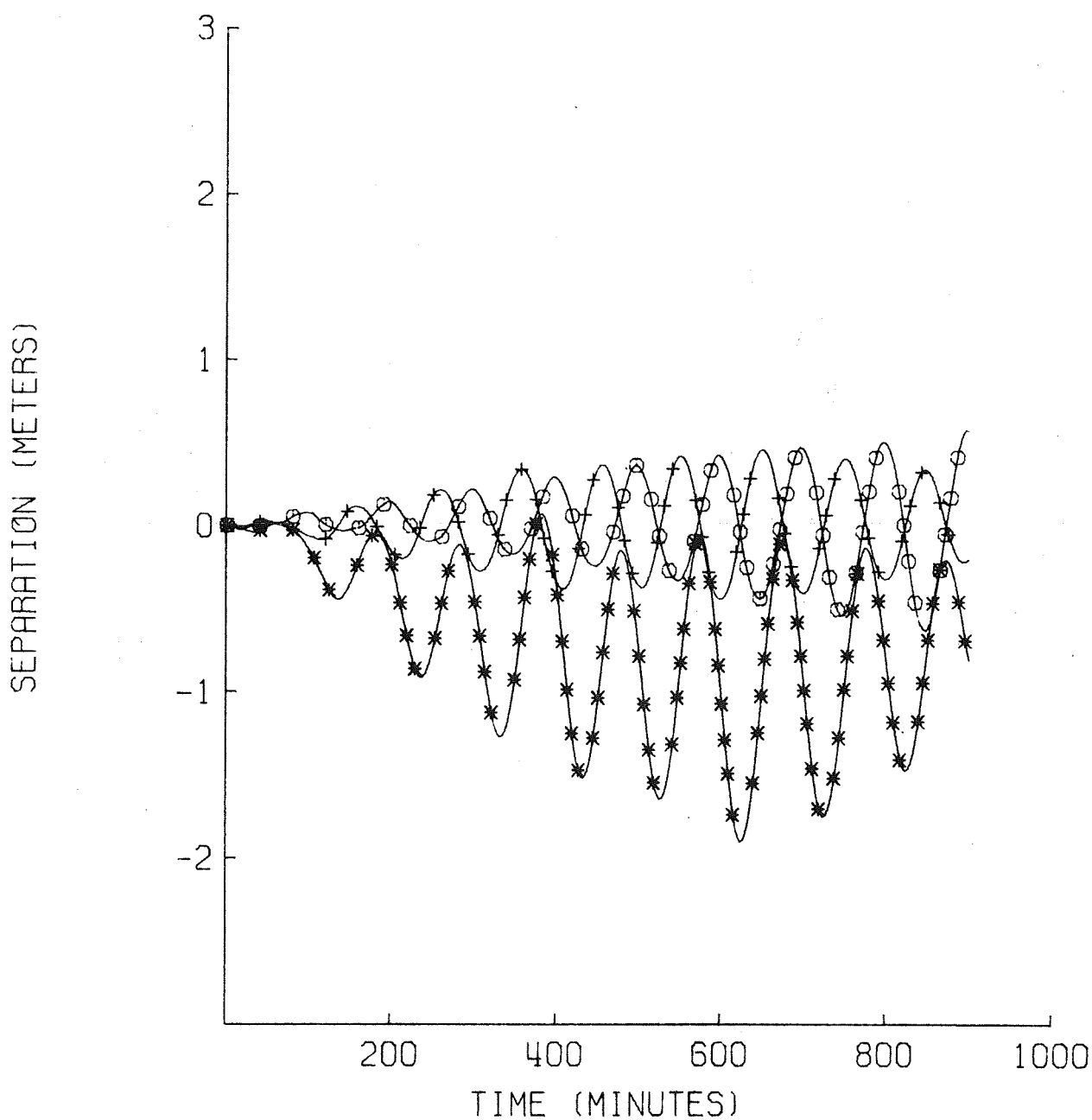
RUN FOR S(7 , 1) = .0062

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

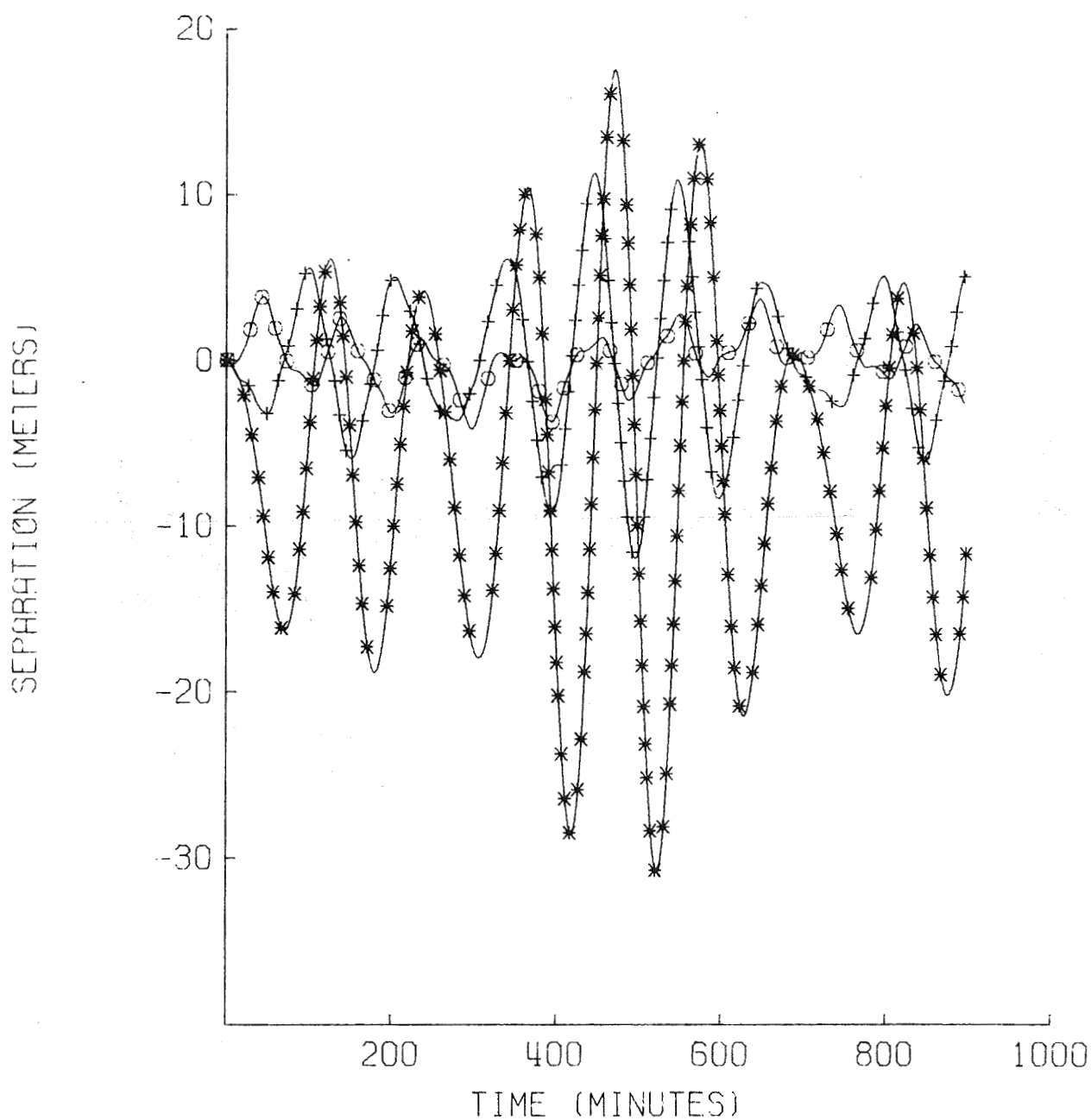
RUN FOR C(7 , 2) = .2632

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

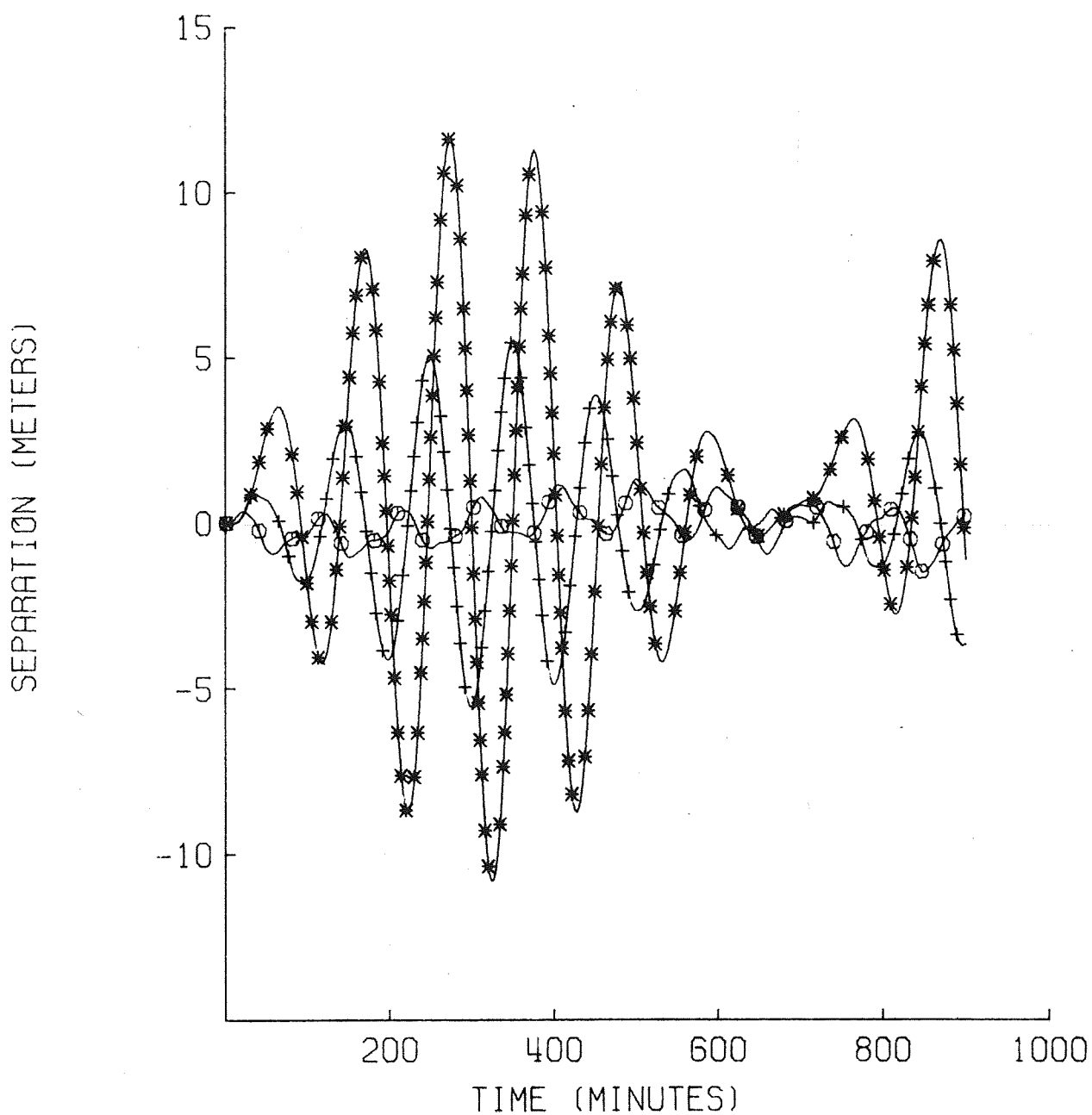
RUN FOR $S(7, 2) = .0832$

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

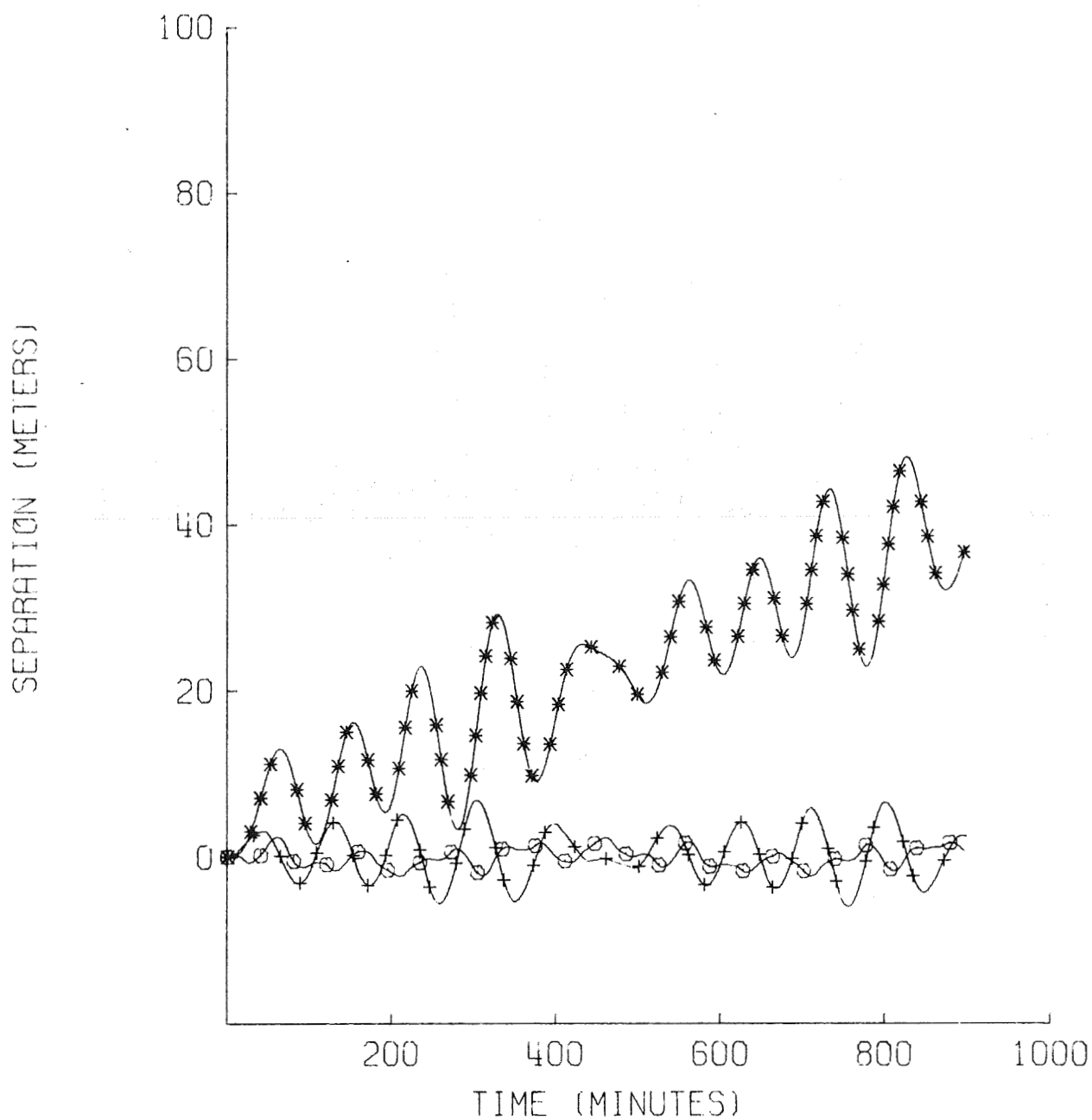
RUN FOR C(7 , 3) = .1540

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

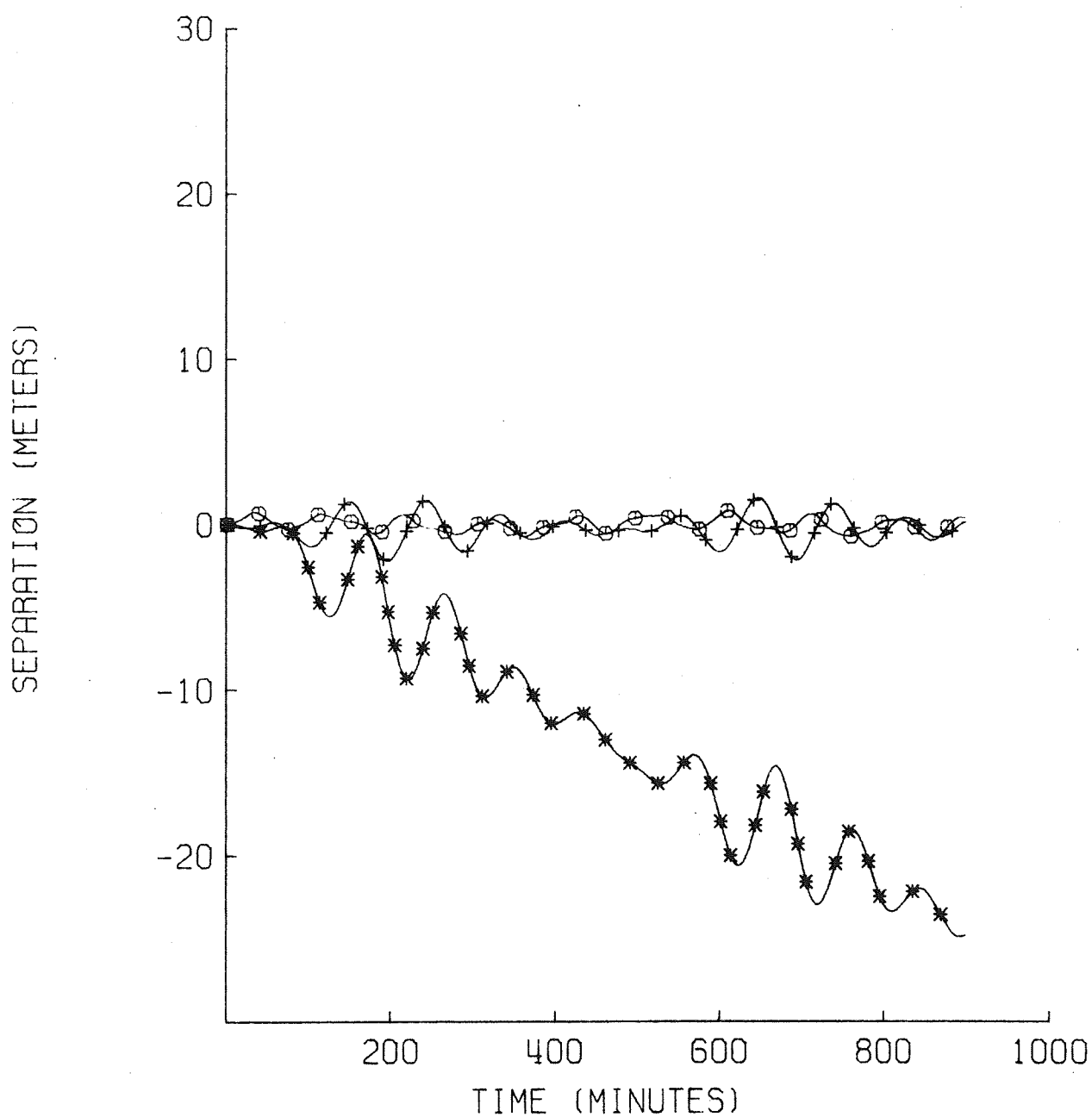
(⊖) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(7 , 3) = -.0391
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

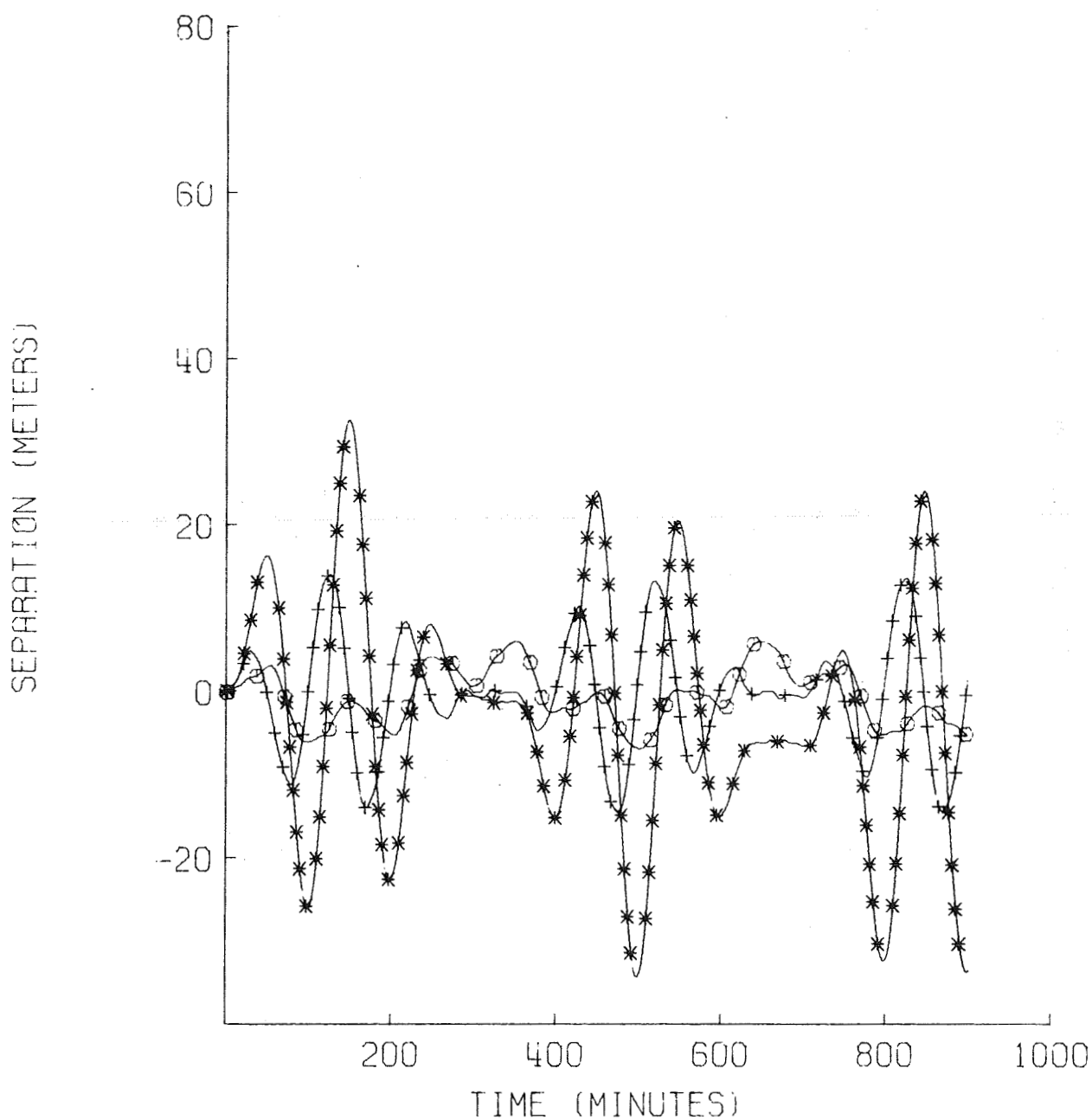
RUN FOR C(7 ,4) = -.2898

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

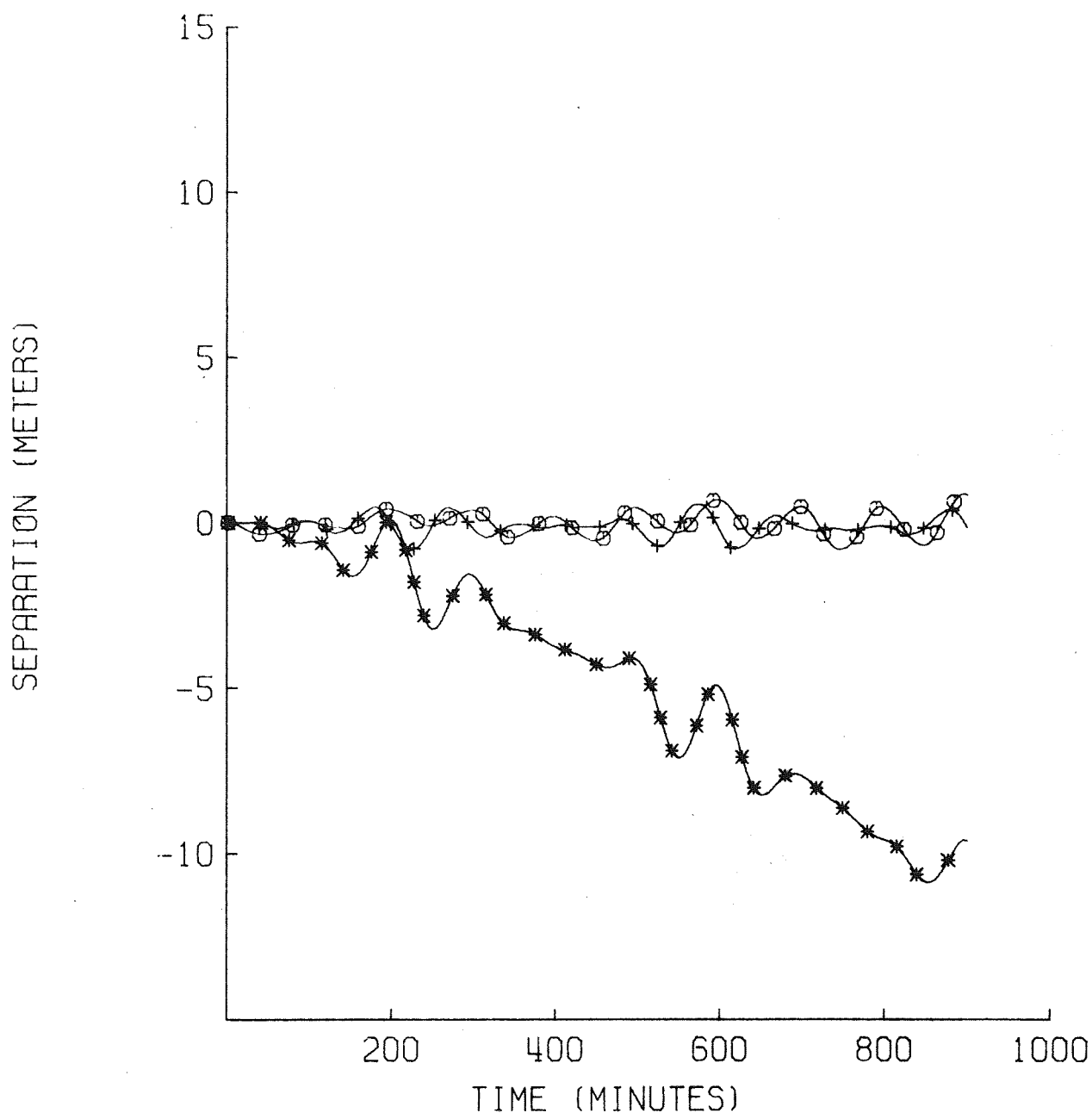
(⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(7 ,4) = -.0145
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7135.6535

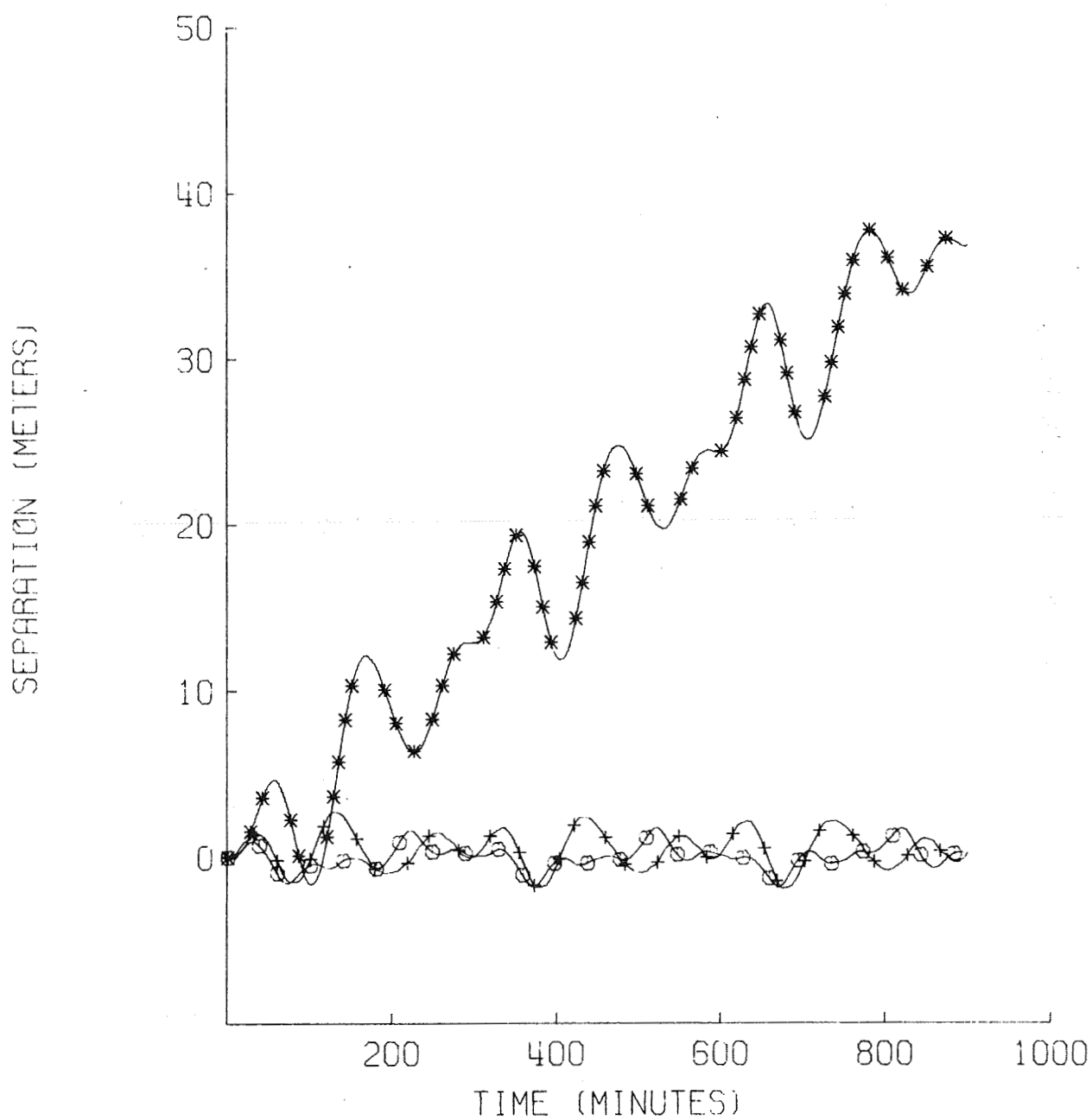
RUN FOR C(7 ,5) = .0612

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

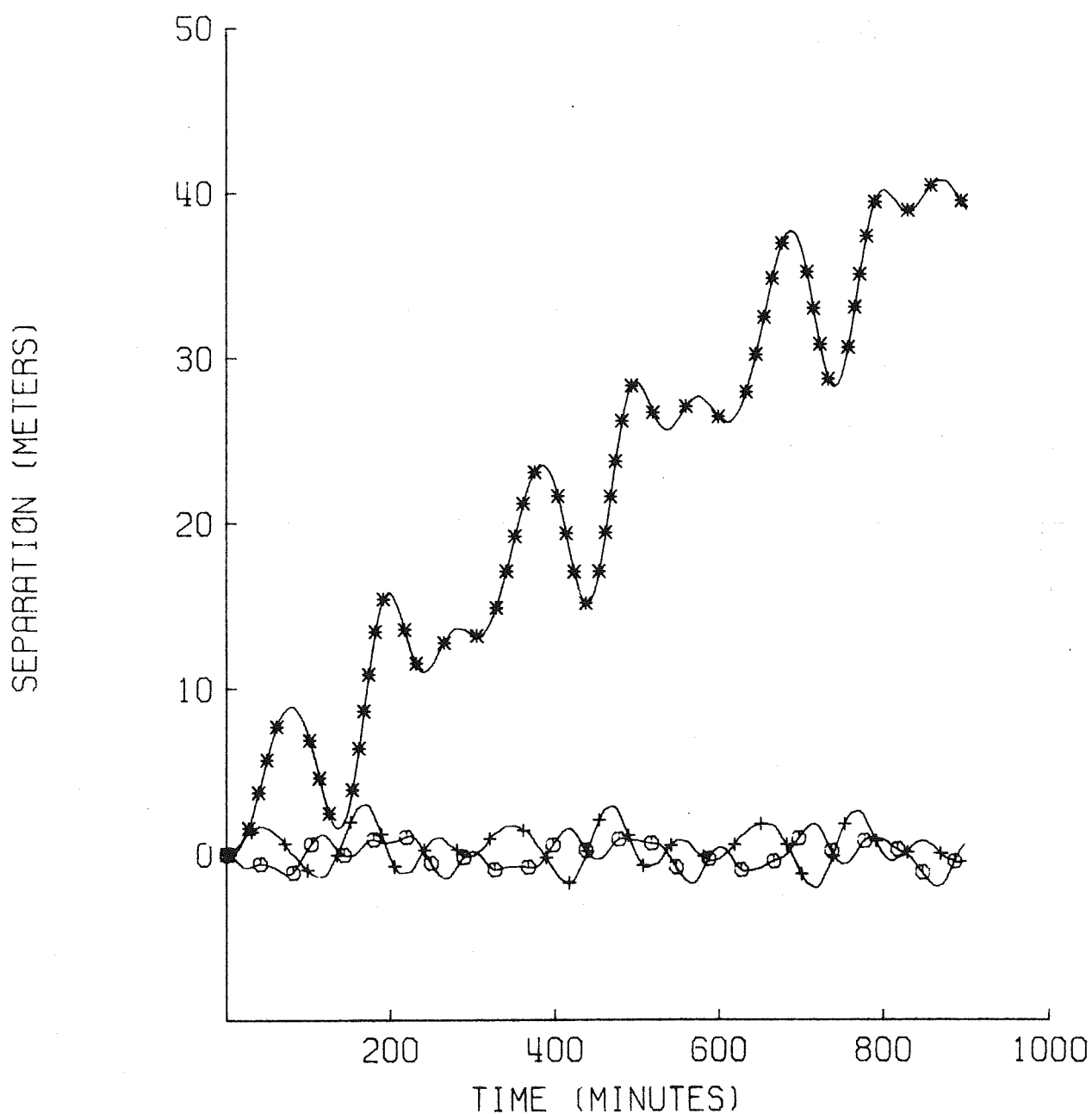
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(7 ,5) = .0634
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊖) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

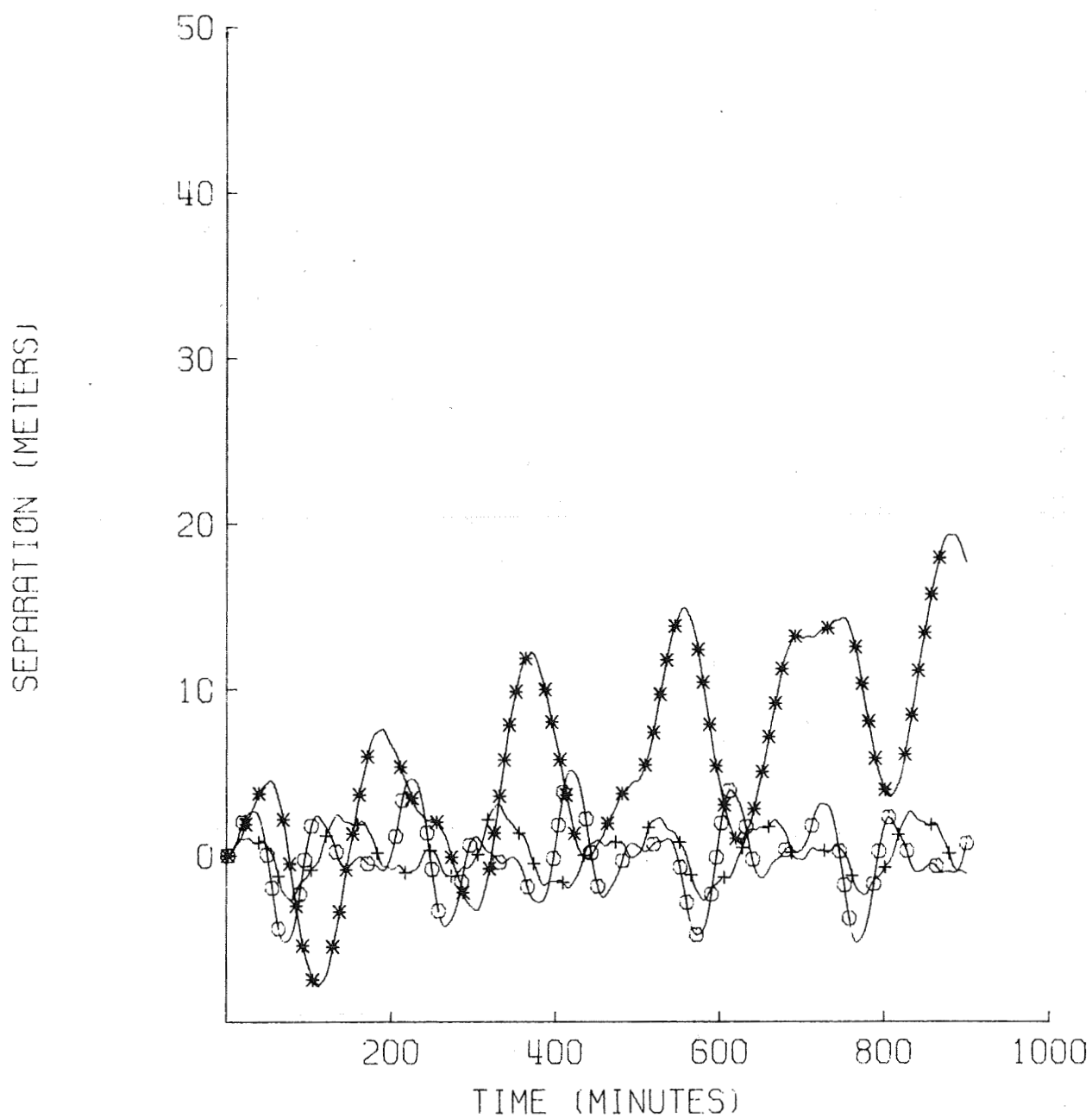
RUN FOR C(7 ,6) = -.1685

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

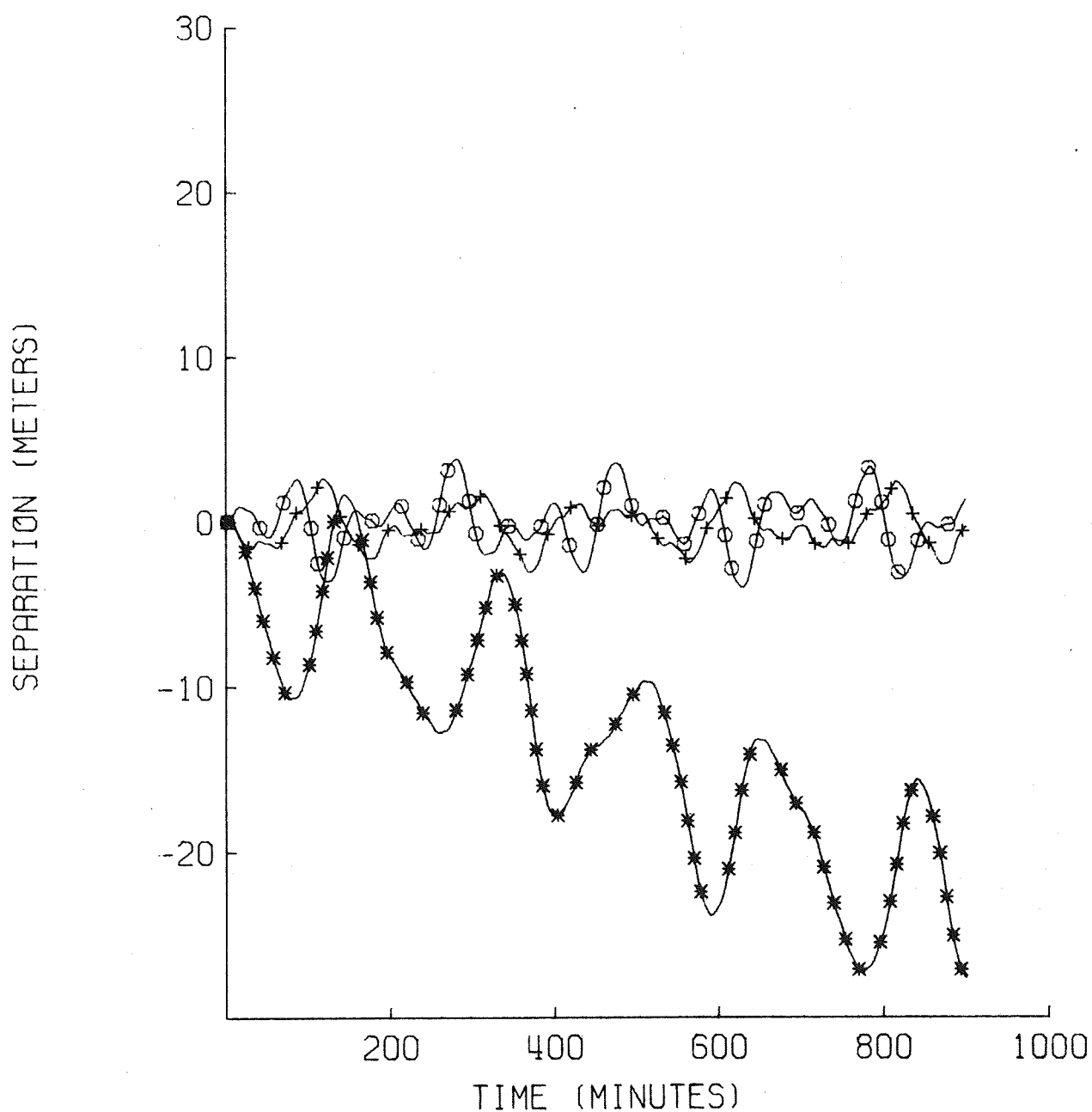
RUN FOR S(7 ,6) = .1512

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7130.6535

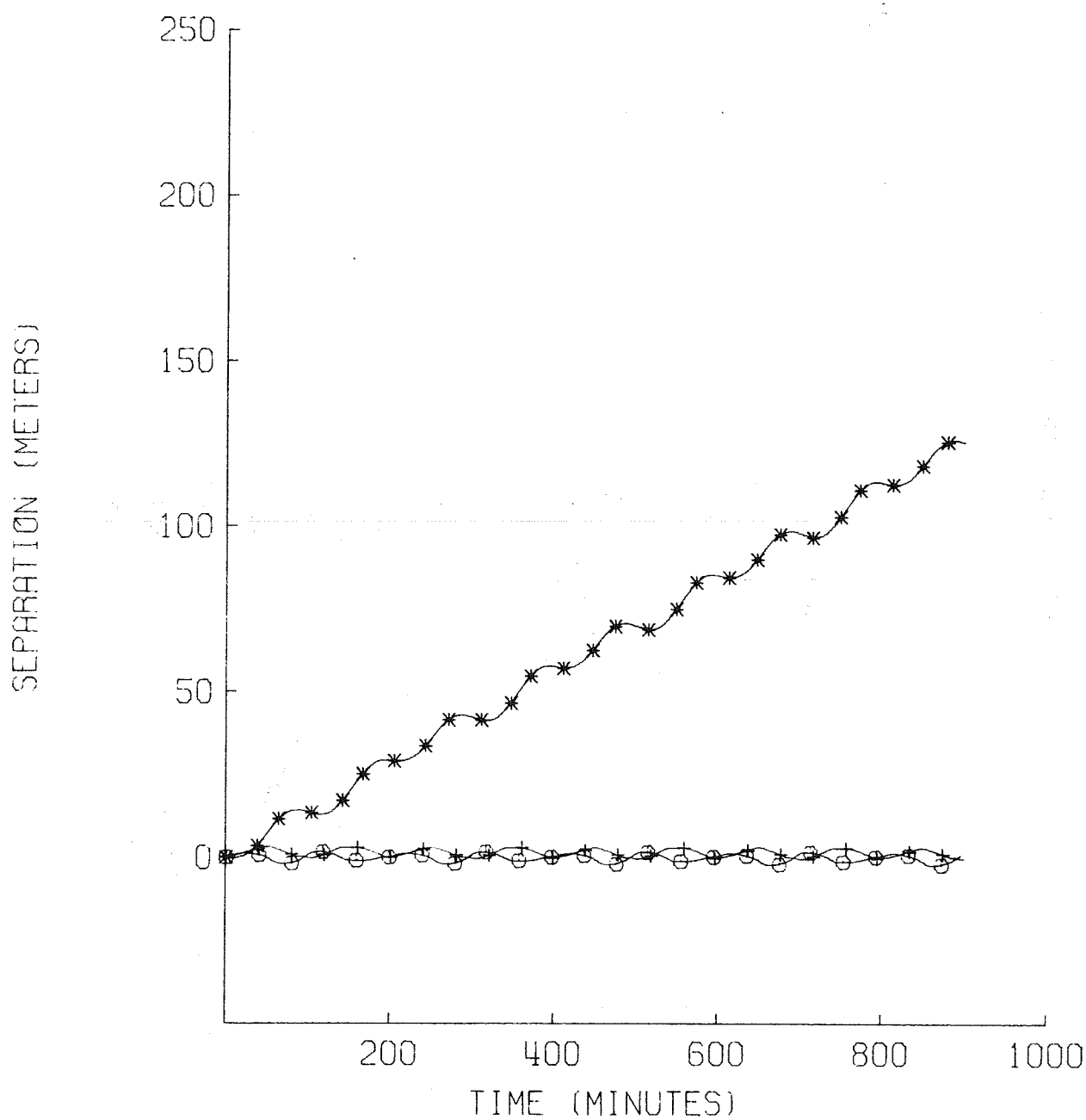
RUN FOR C(7 , 7) = .0897

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

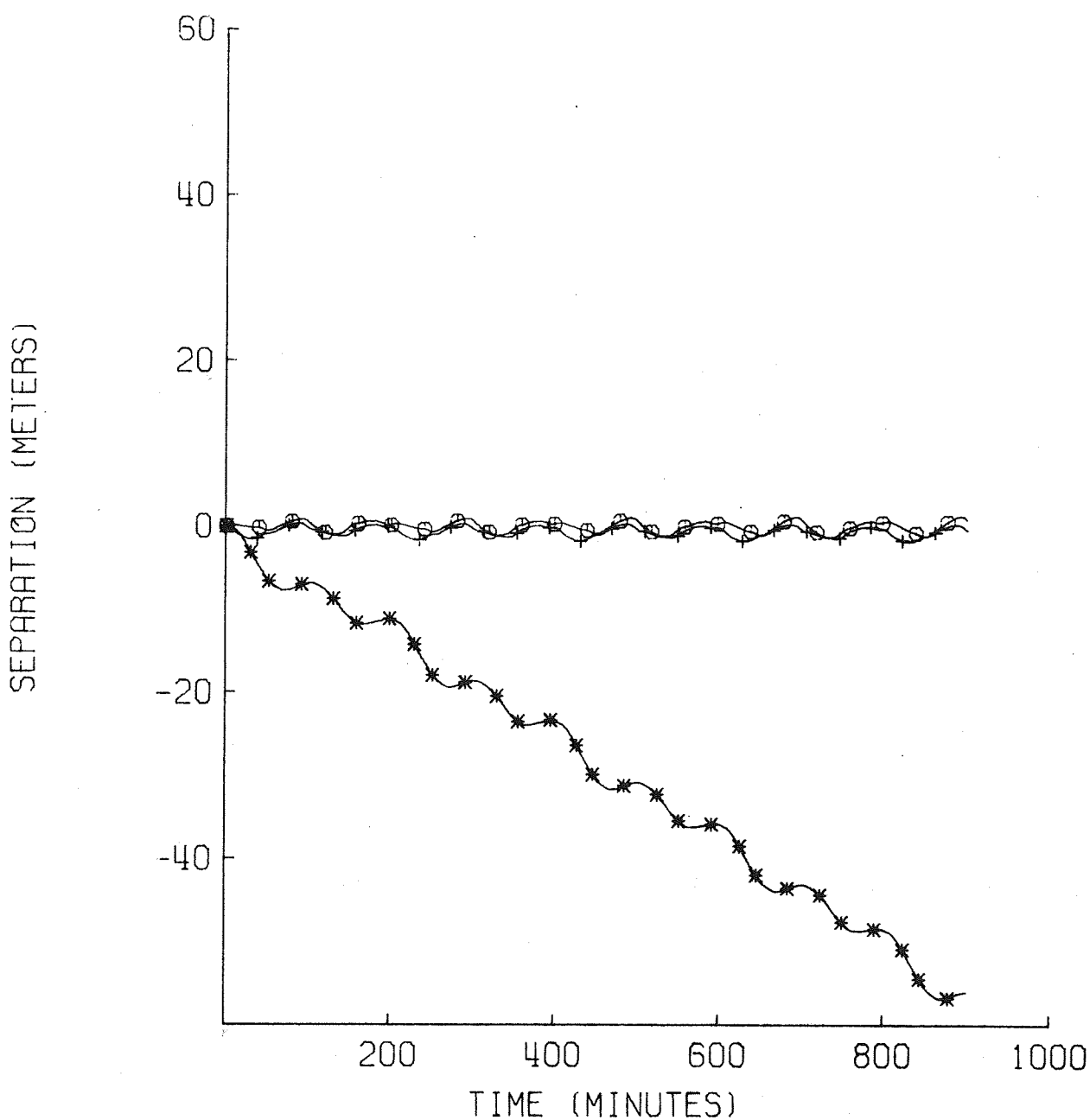
RUN FOR S(7 , 7) = -.0672

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

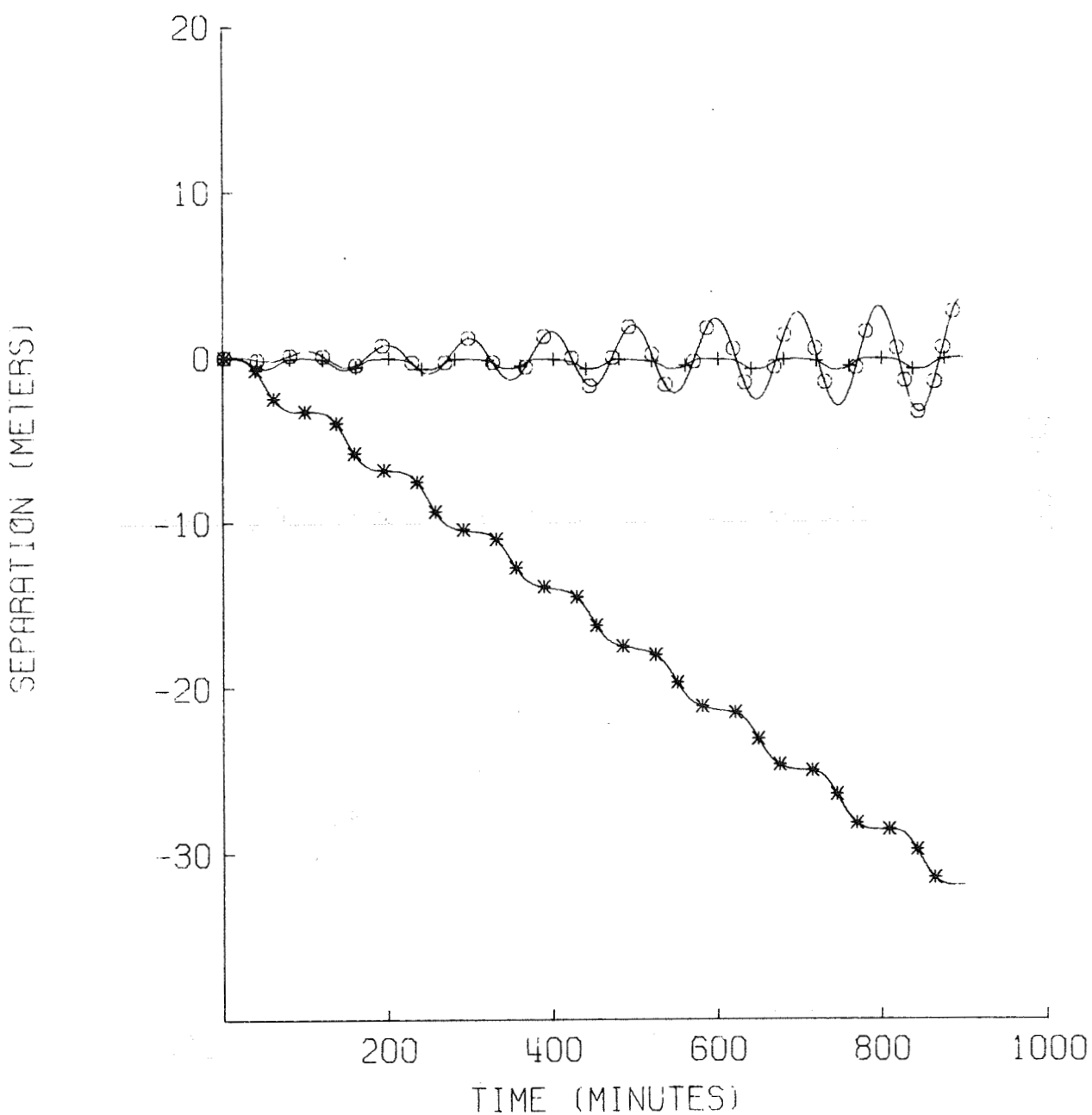
(⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7130.6535

RUN FOR C(8 ,0) = -.0195
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

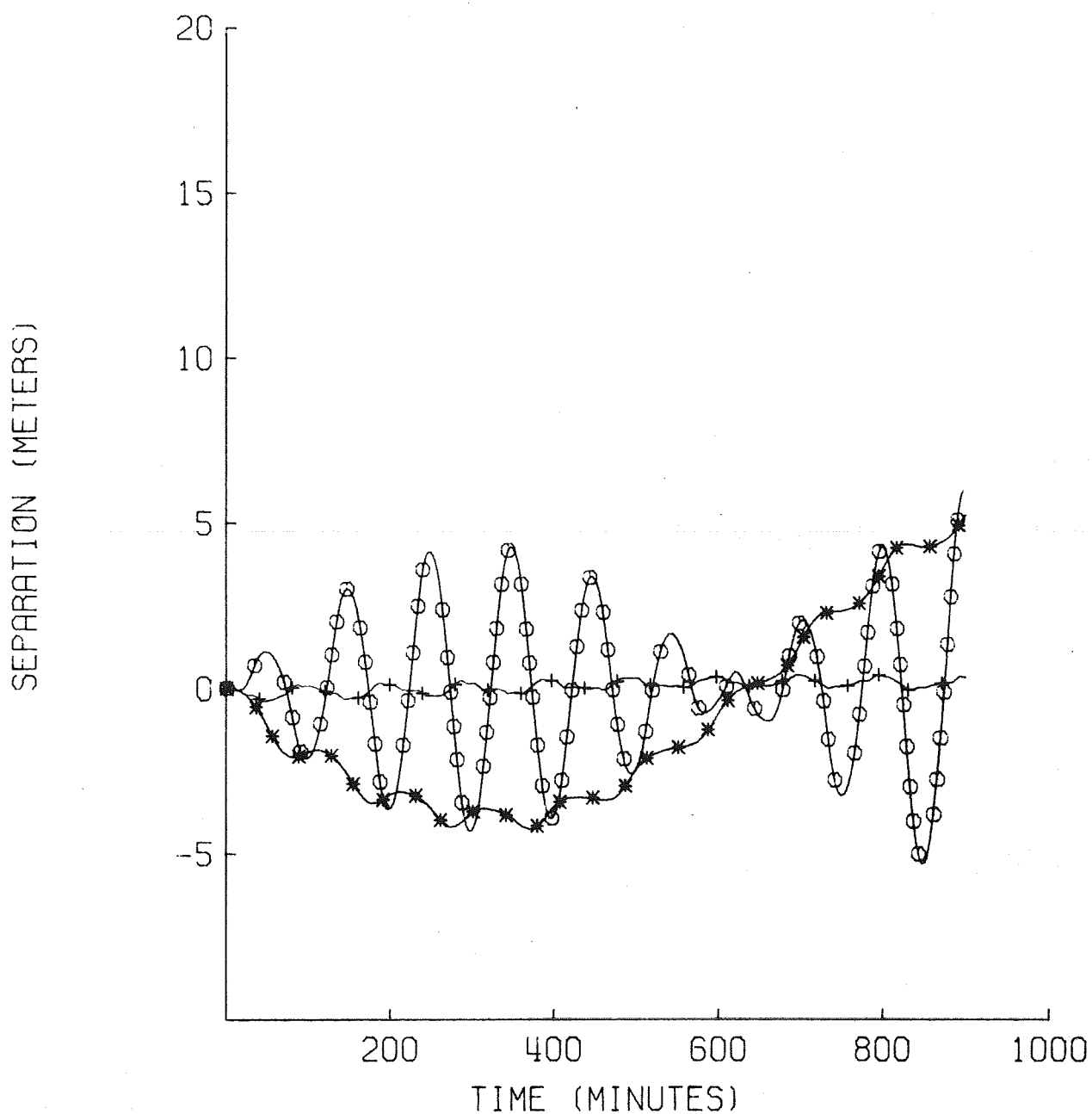
RUN FOR C(8 ,1) = -.0738

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

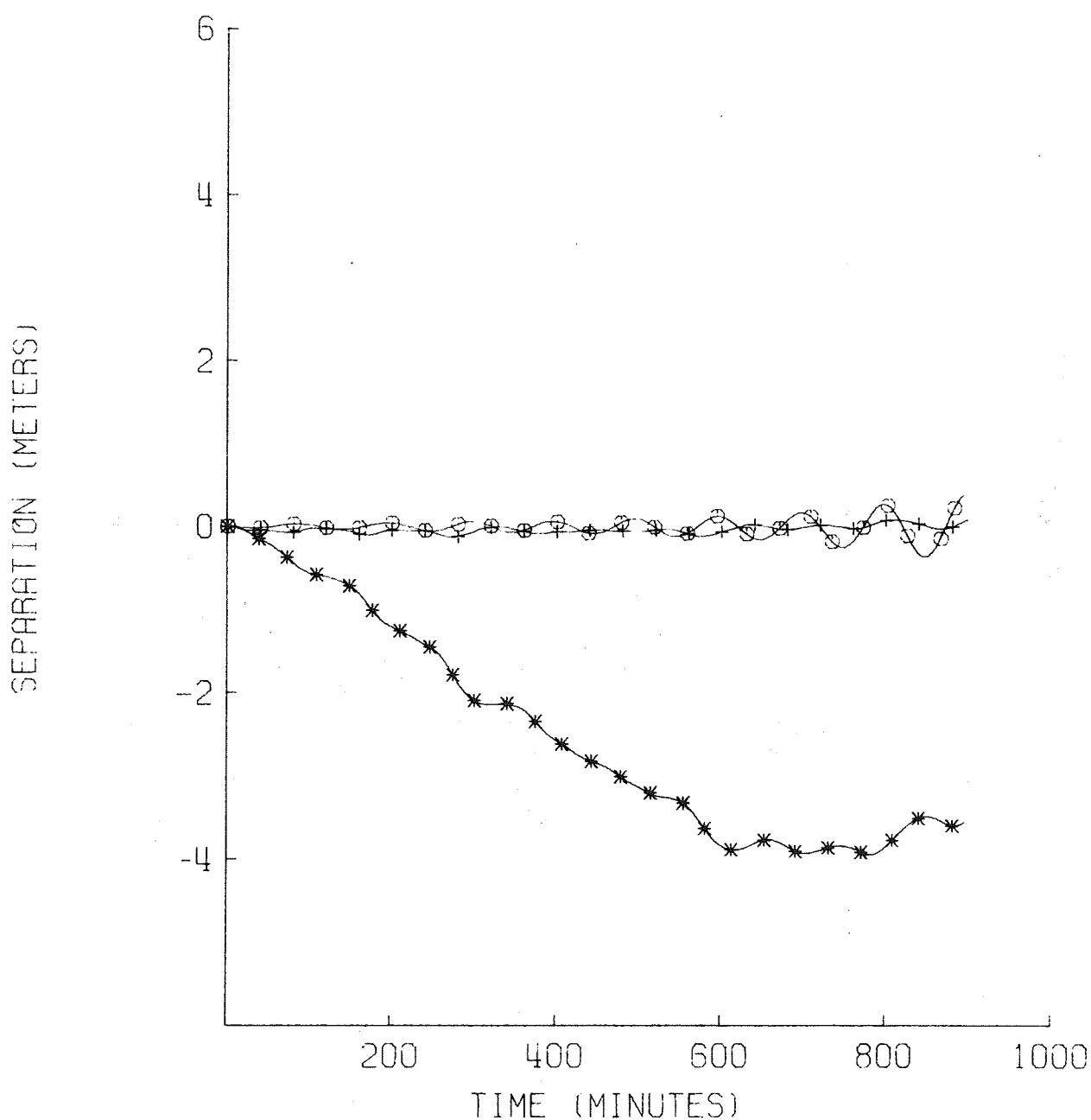
(⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(8 ,1) = .0017
 FACTOR USED IS 1.000000

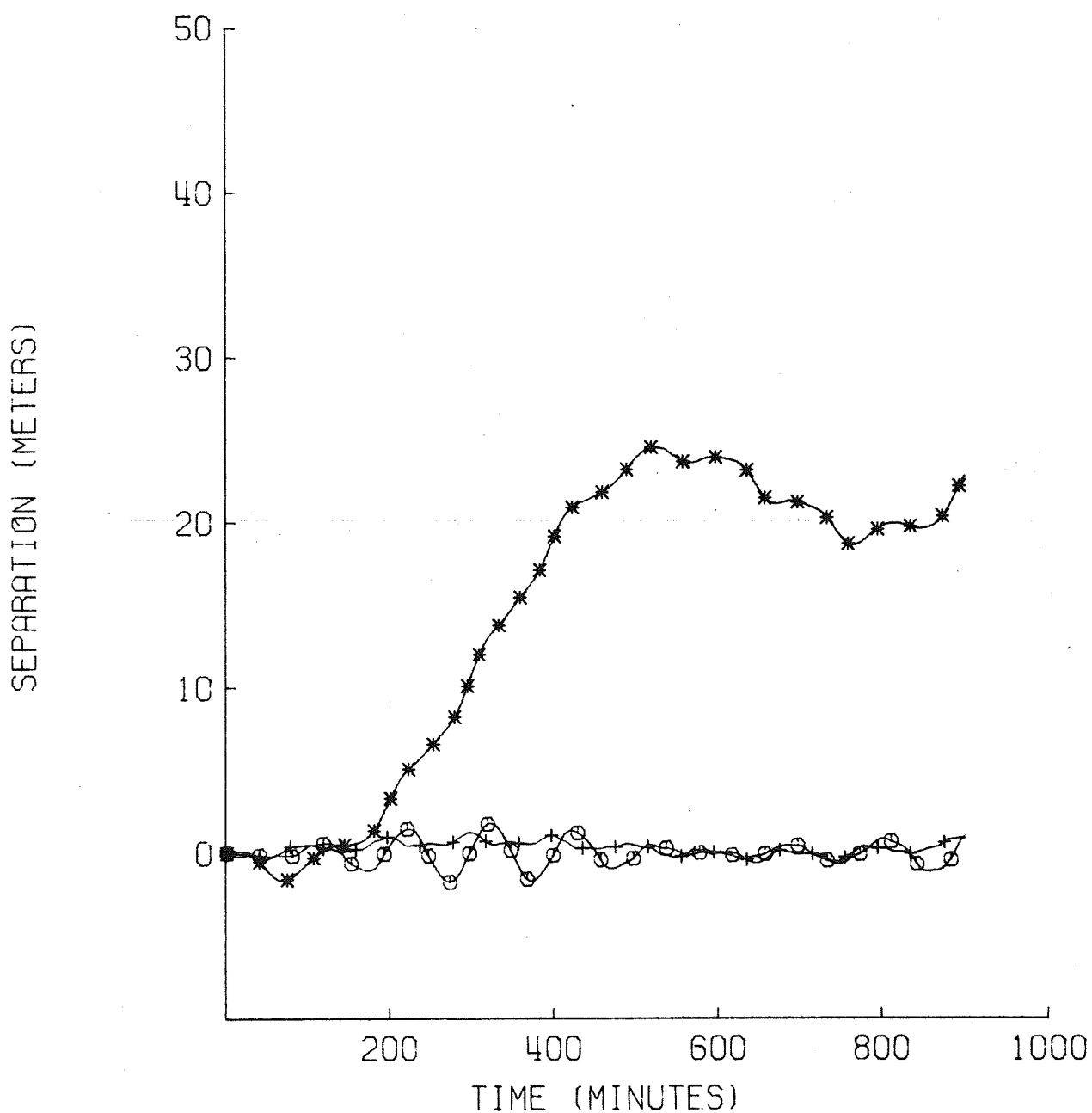
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(8 , 2) = .0621
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7135.6535

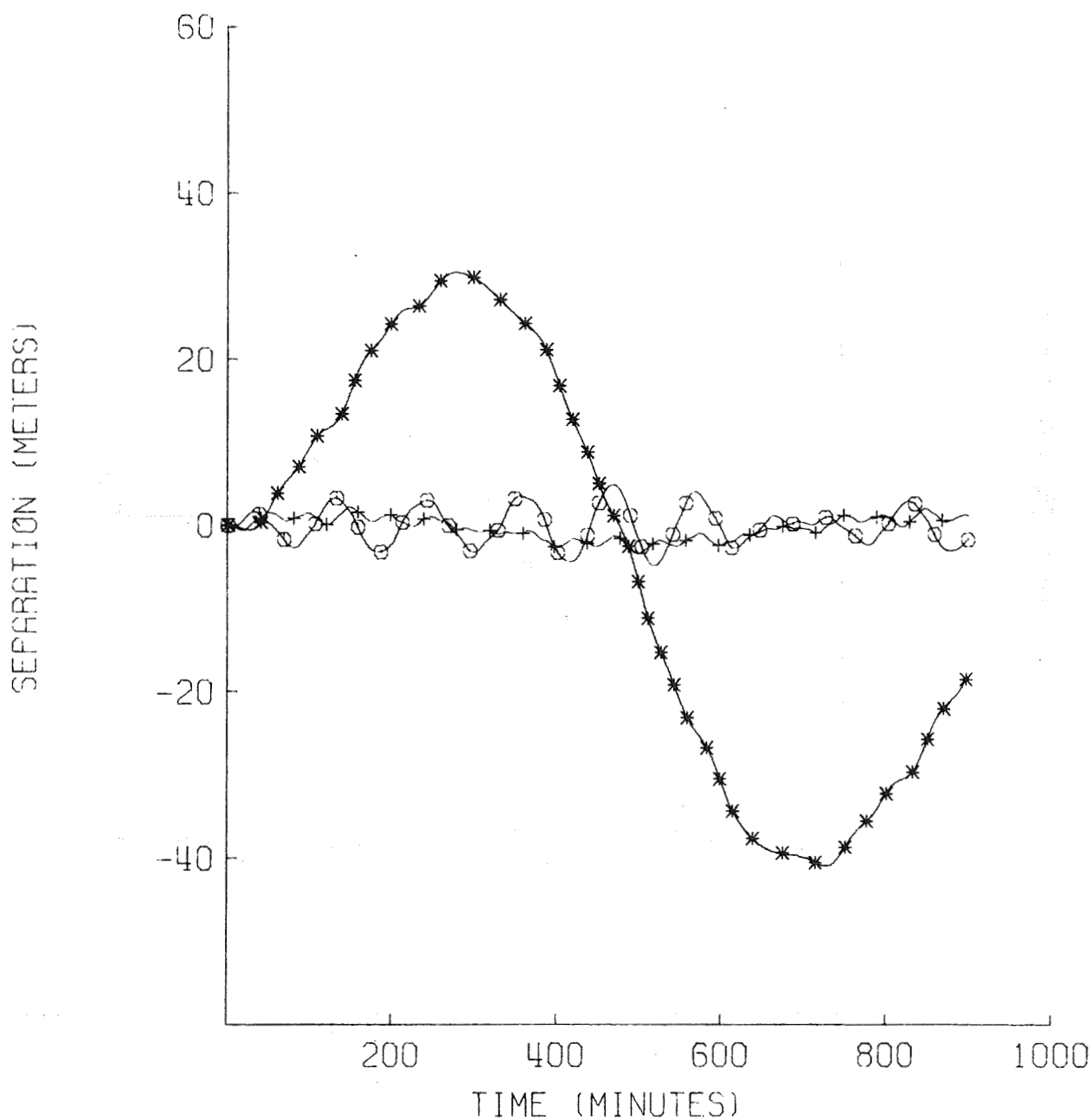
RUN FOR S(8 ,2) = .2220

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

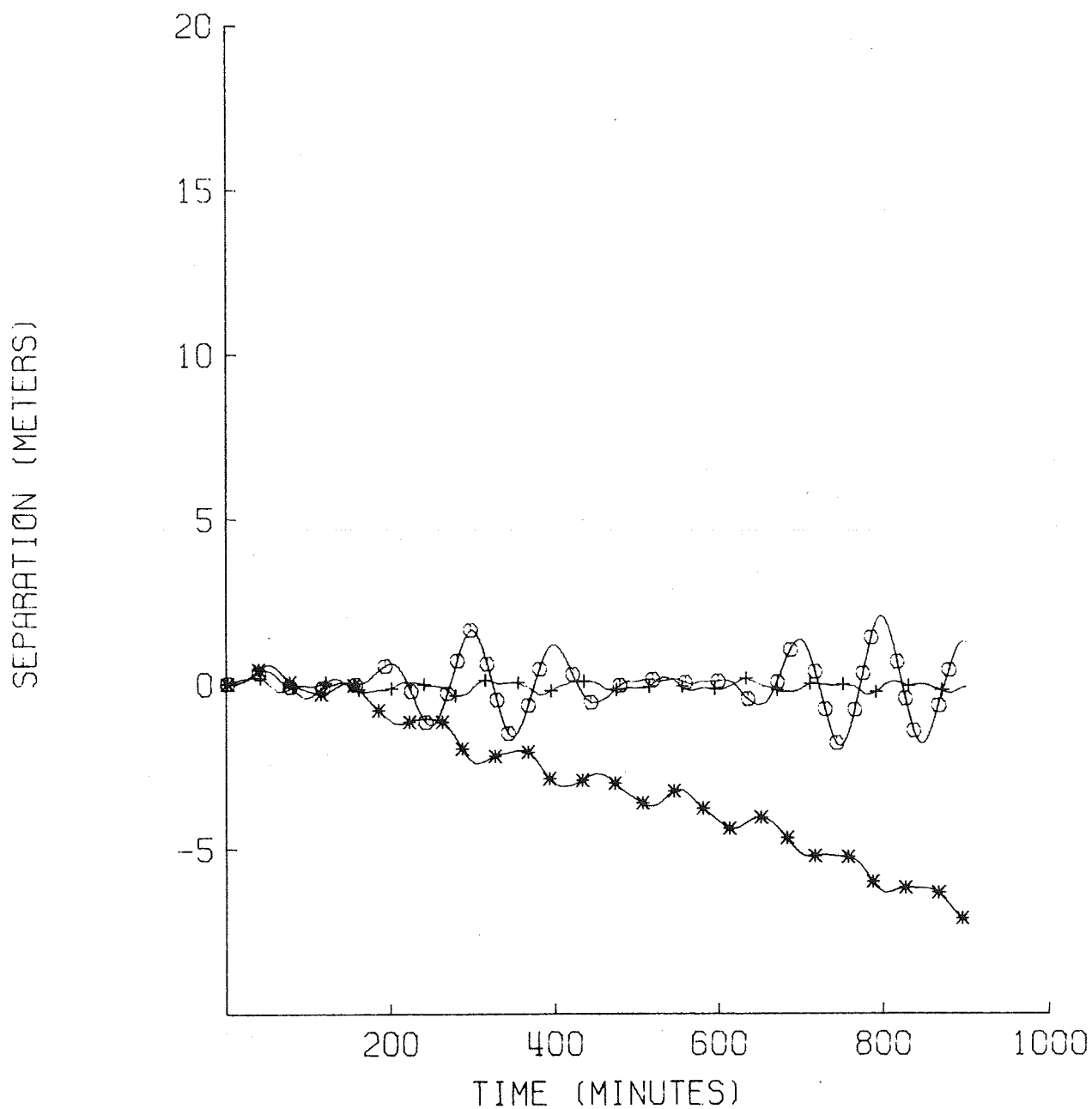
RUN FOR C(8 , 3) = .0262

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

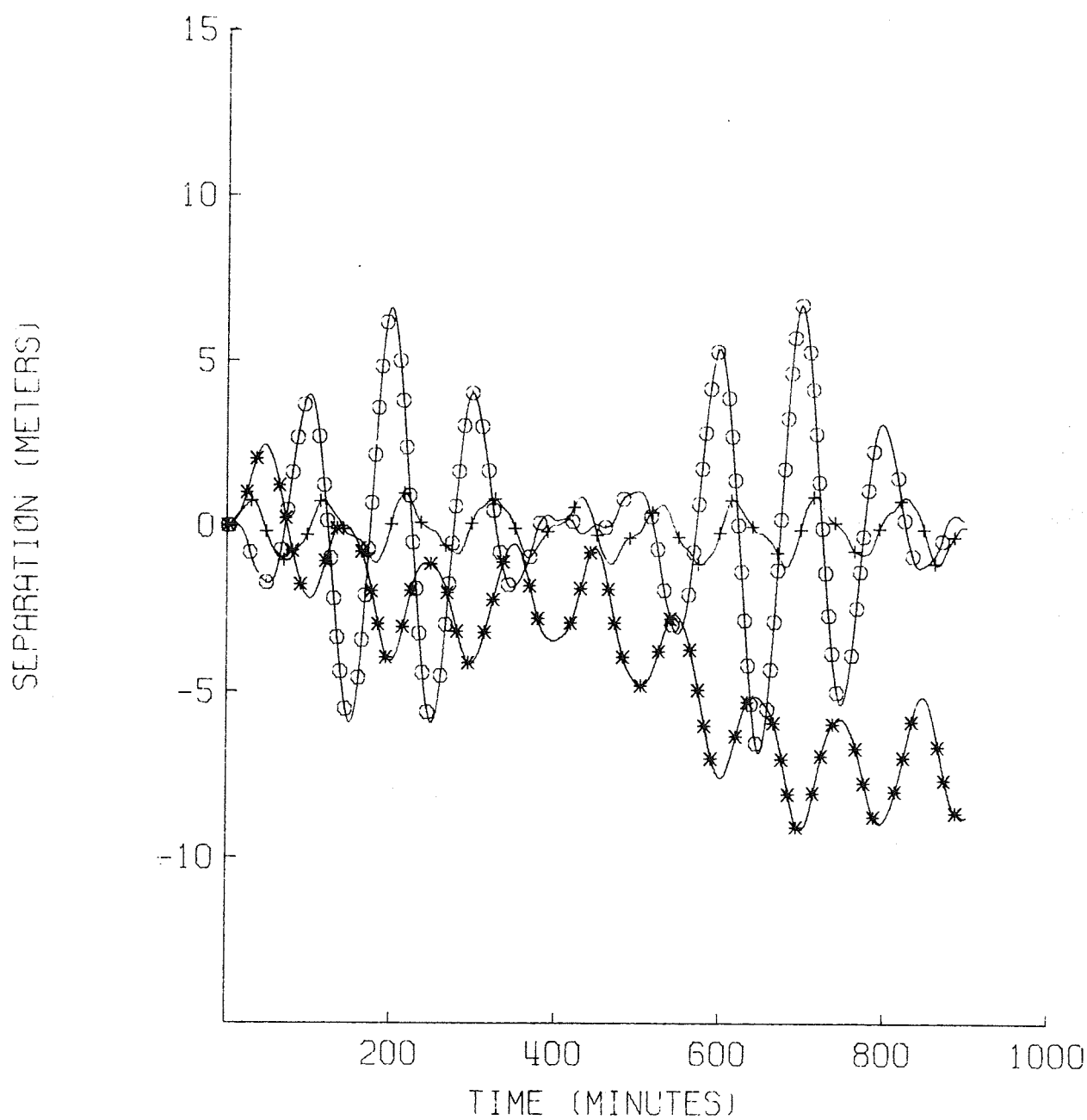
(⊖) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(8 ,3) = .0907
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

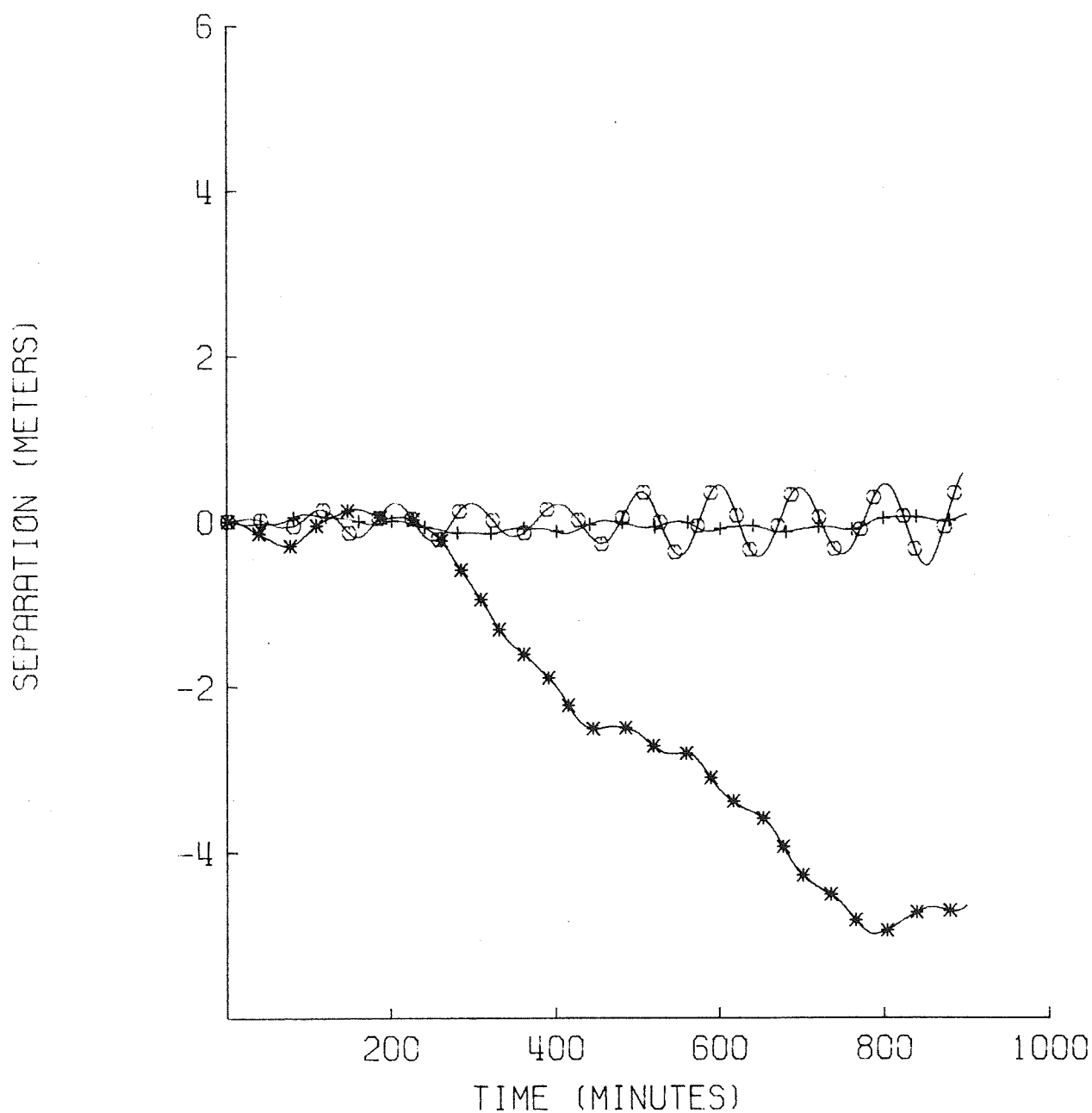
RUN FOR C(8 ,4) = -.0029

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

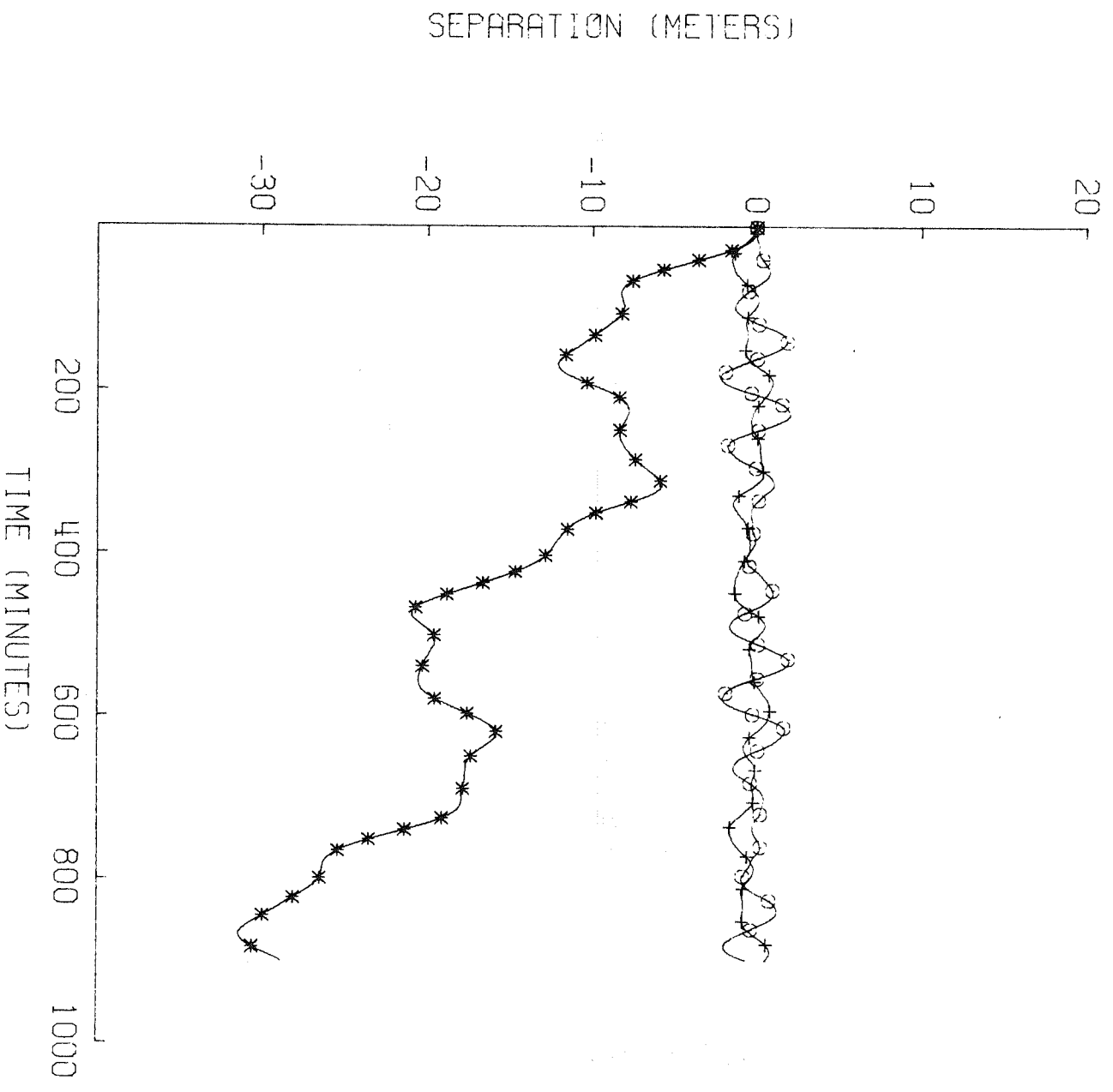
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C	OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7135.5535	

RUN FOR S(8 , 4) = .0568
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

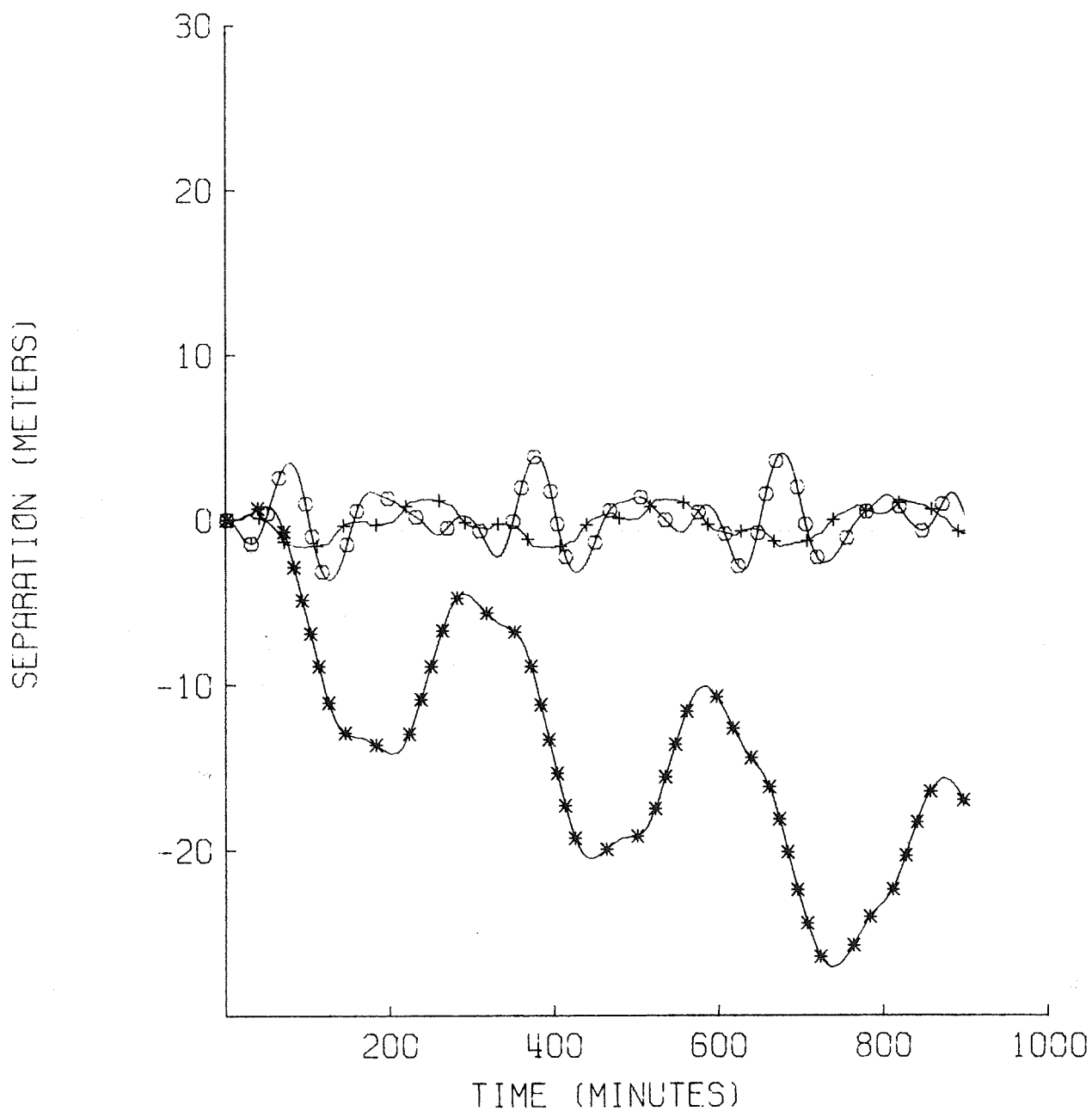
RUN FOR C(8 ,5) = -.0757

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(⊕) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7139.6535

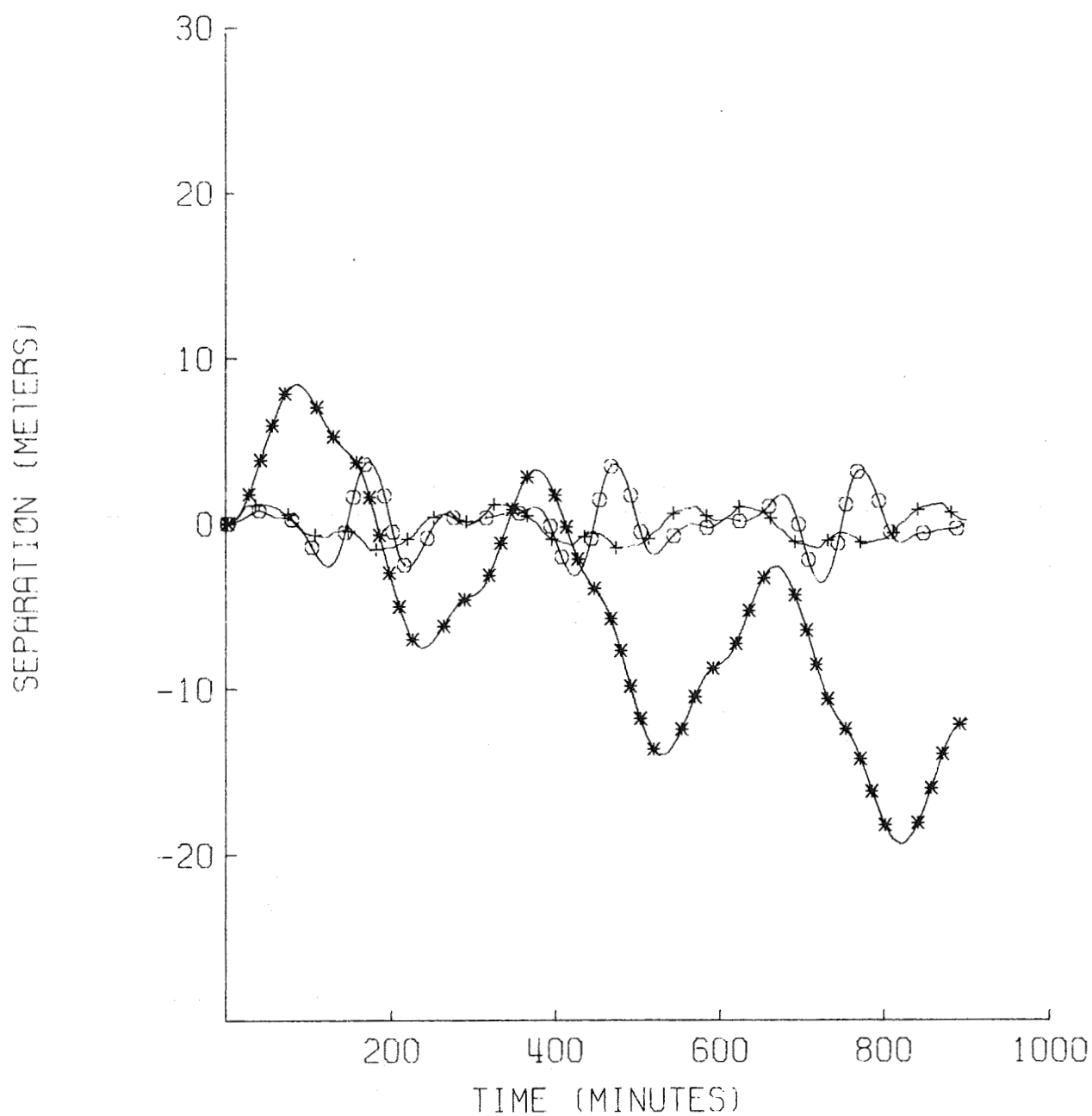
RUN FOR S(8 ,5) = .0702

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

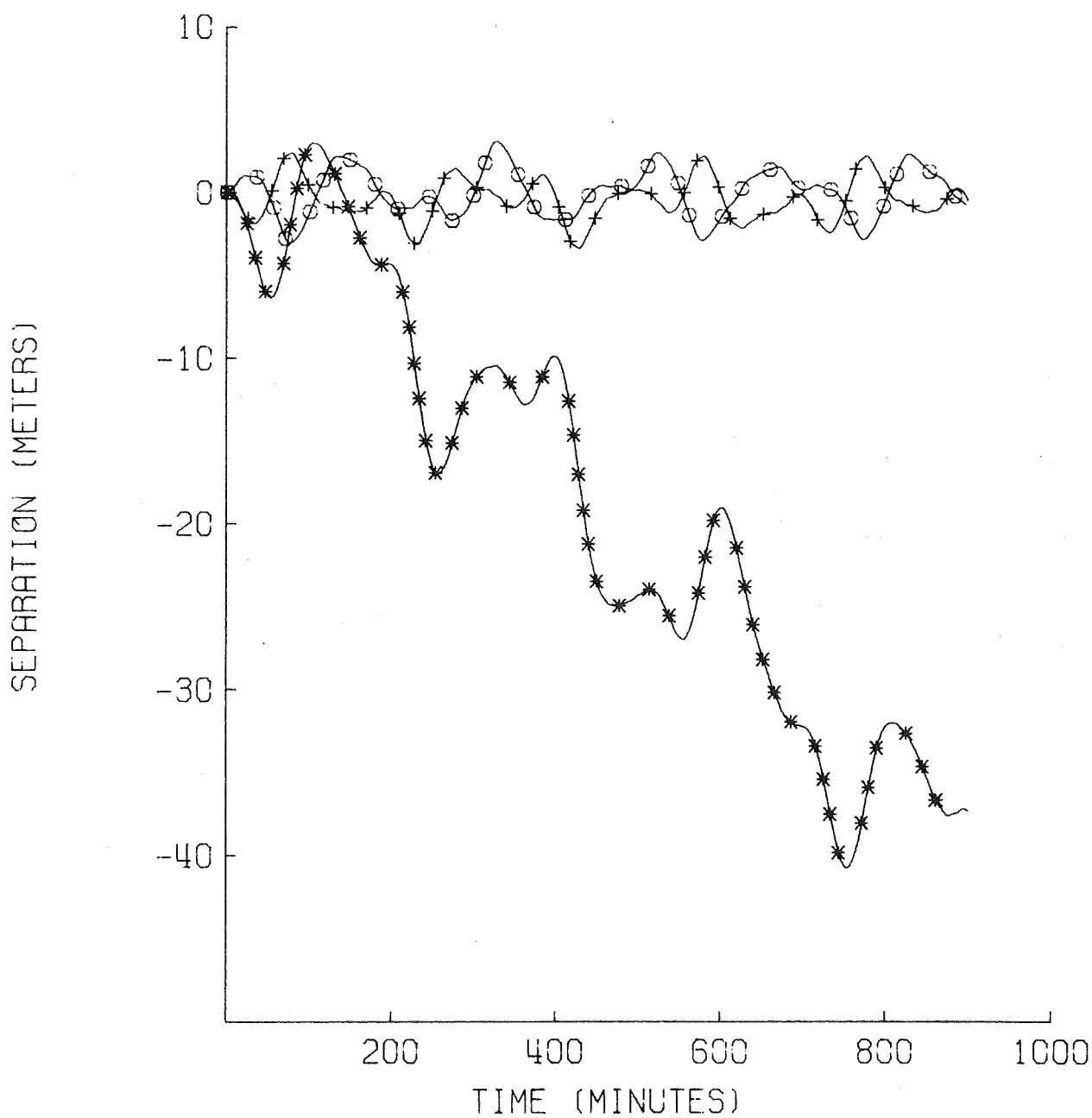
RUN FOR C(8 ,6) = -.0859

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

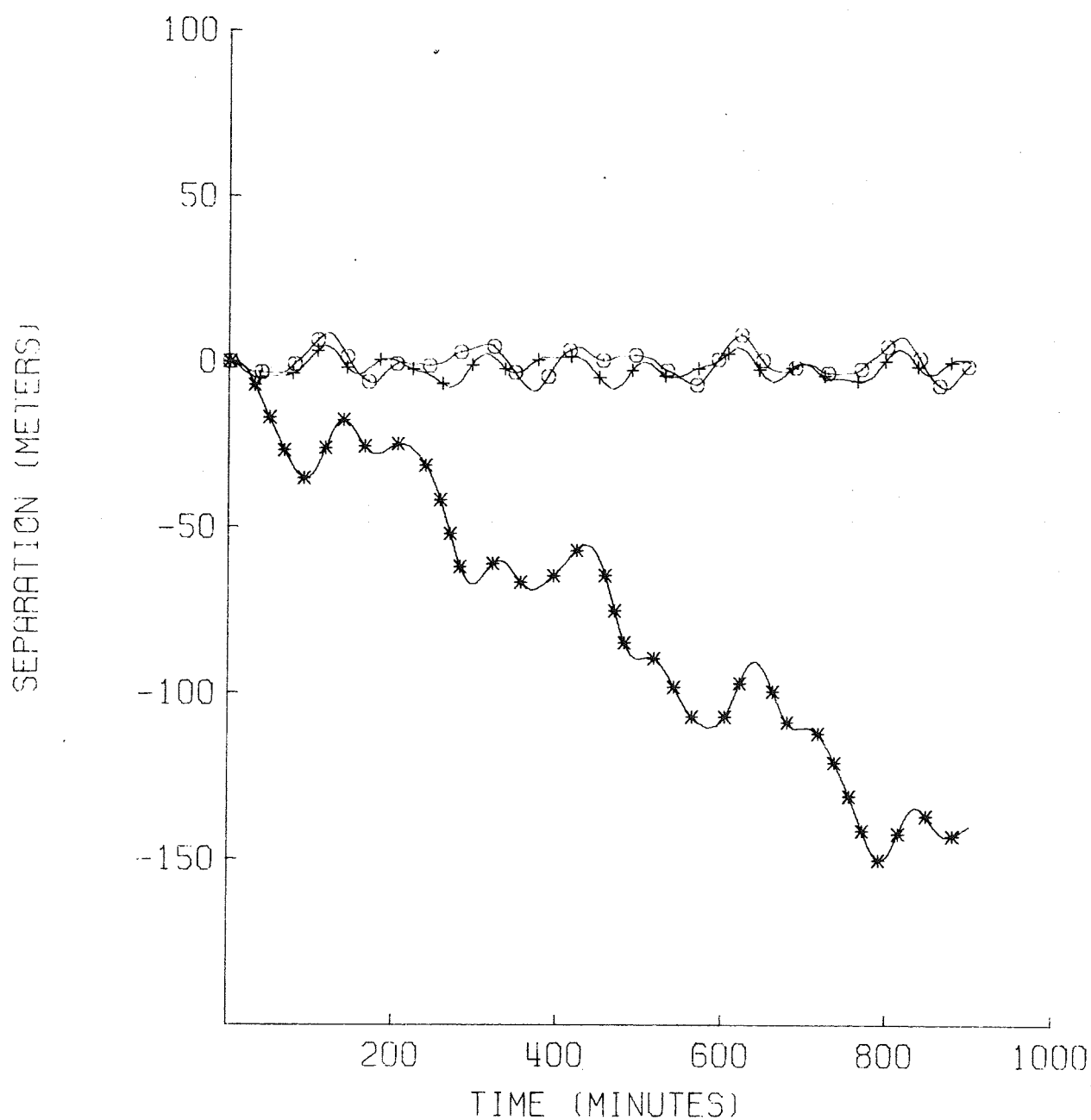
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(8 , 6) = .2170
 FACTOR USED IS 1.000000

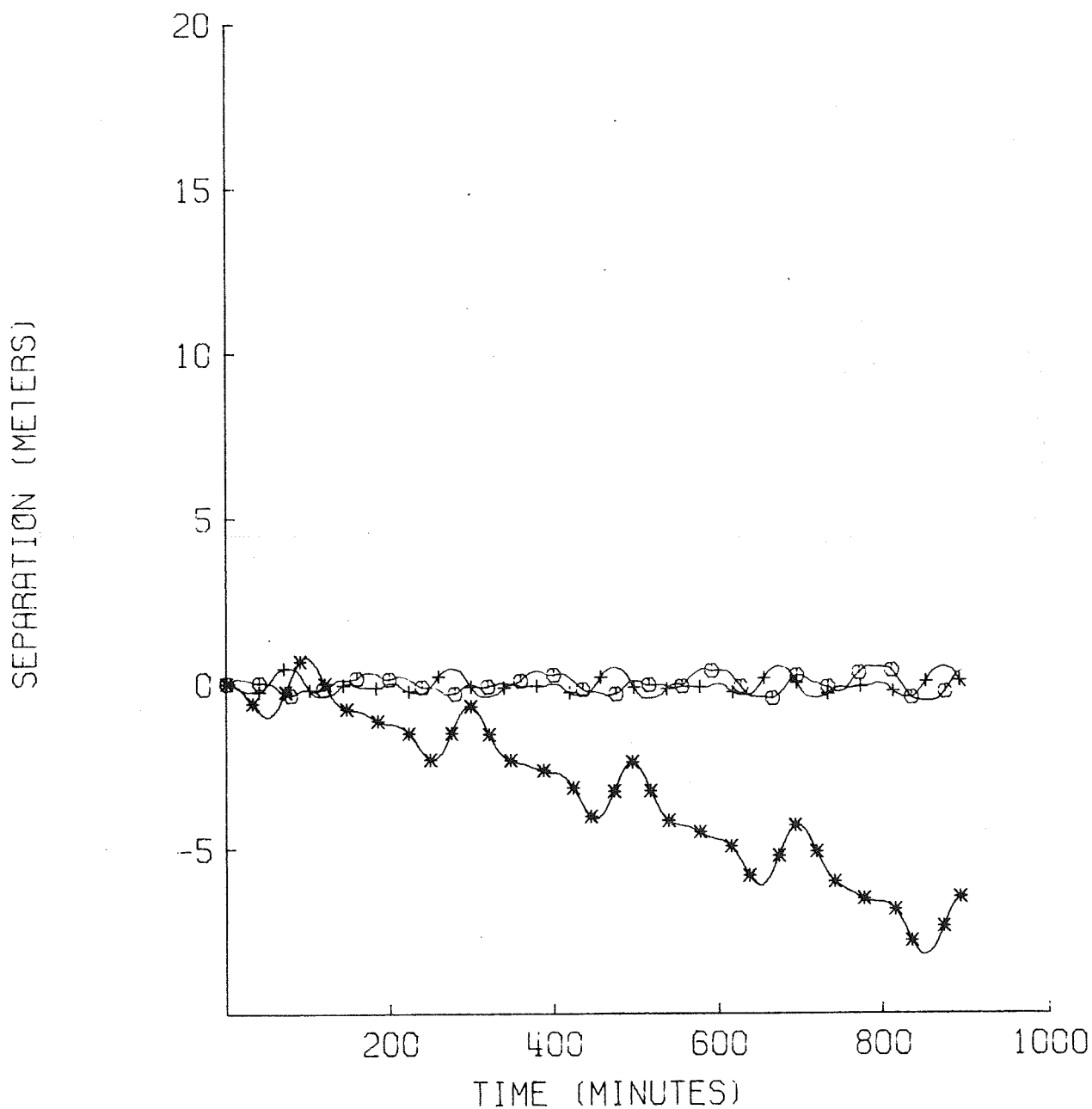
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊕) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(8 , 7) = .0246
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7135.6535

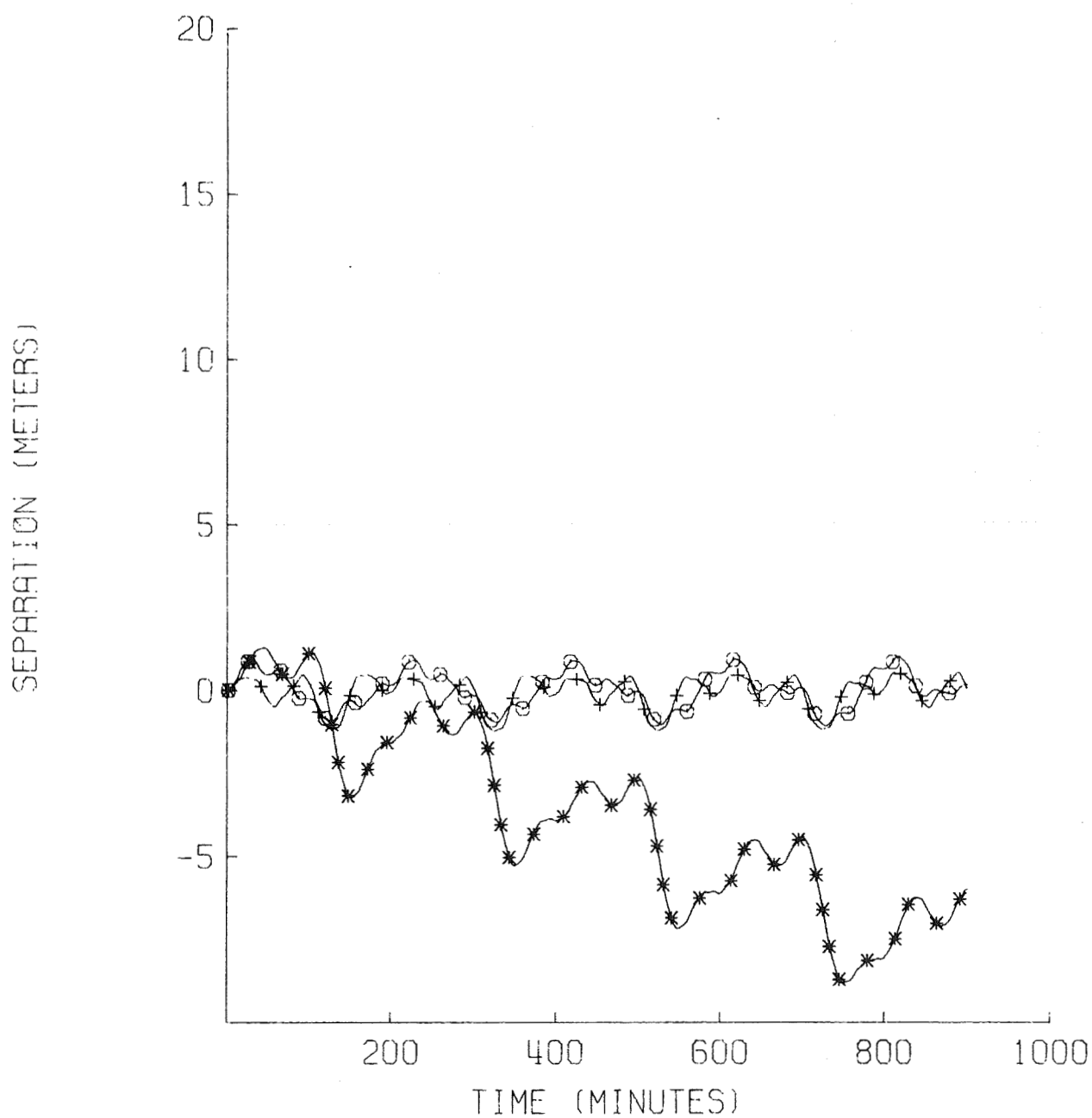
RUN FOR S(8 ,7) = .0668

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(⊖) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

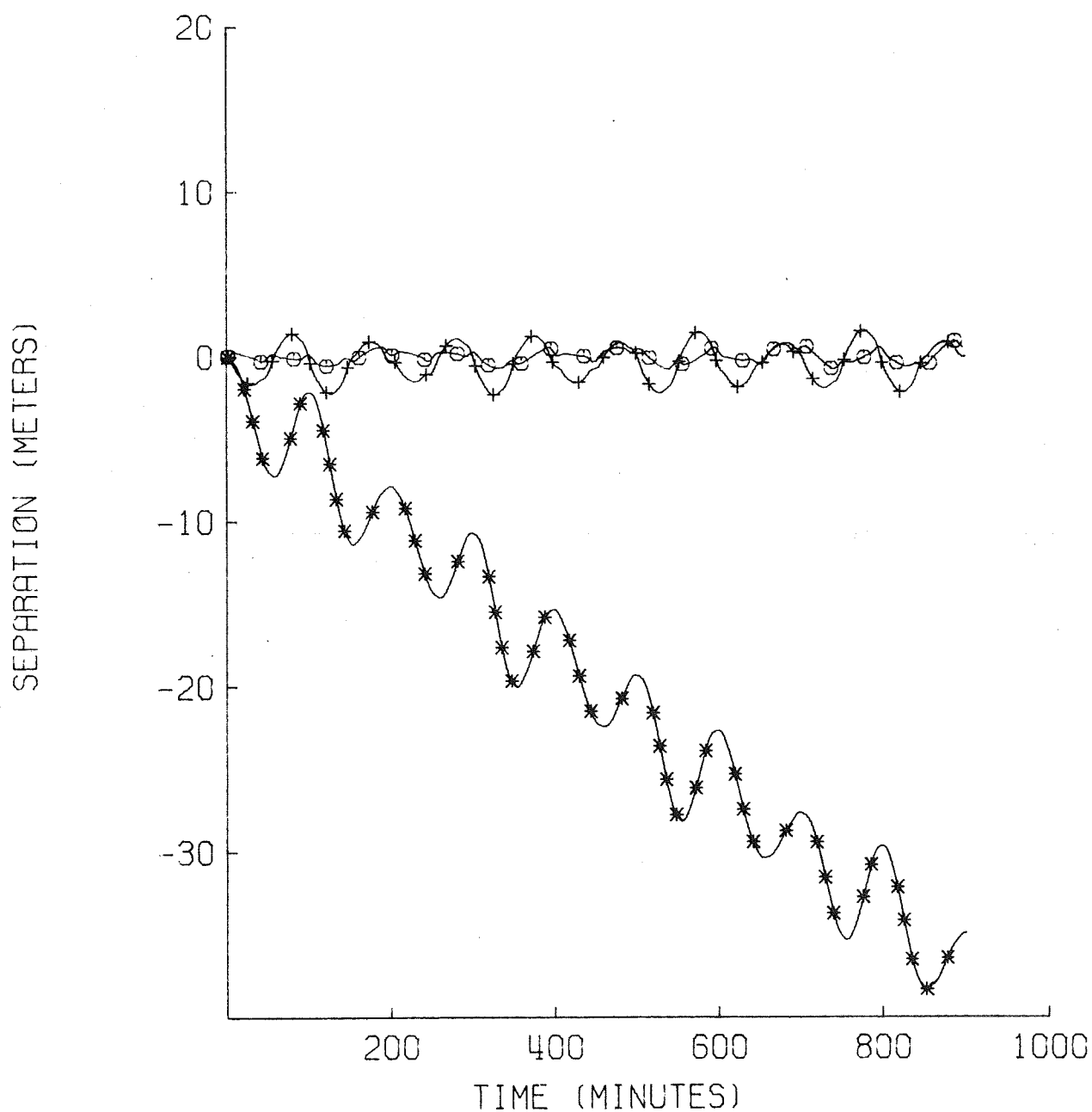
RUN FOR C(8 ,8) = -.0948

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

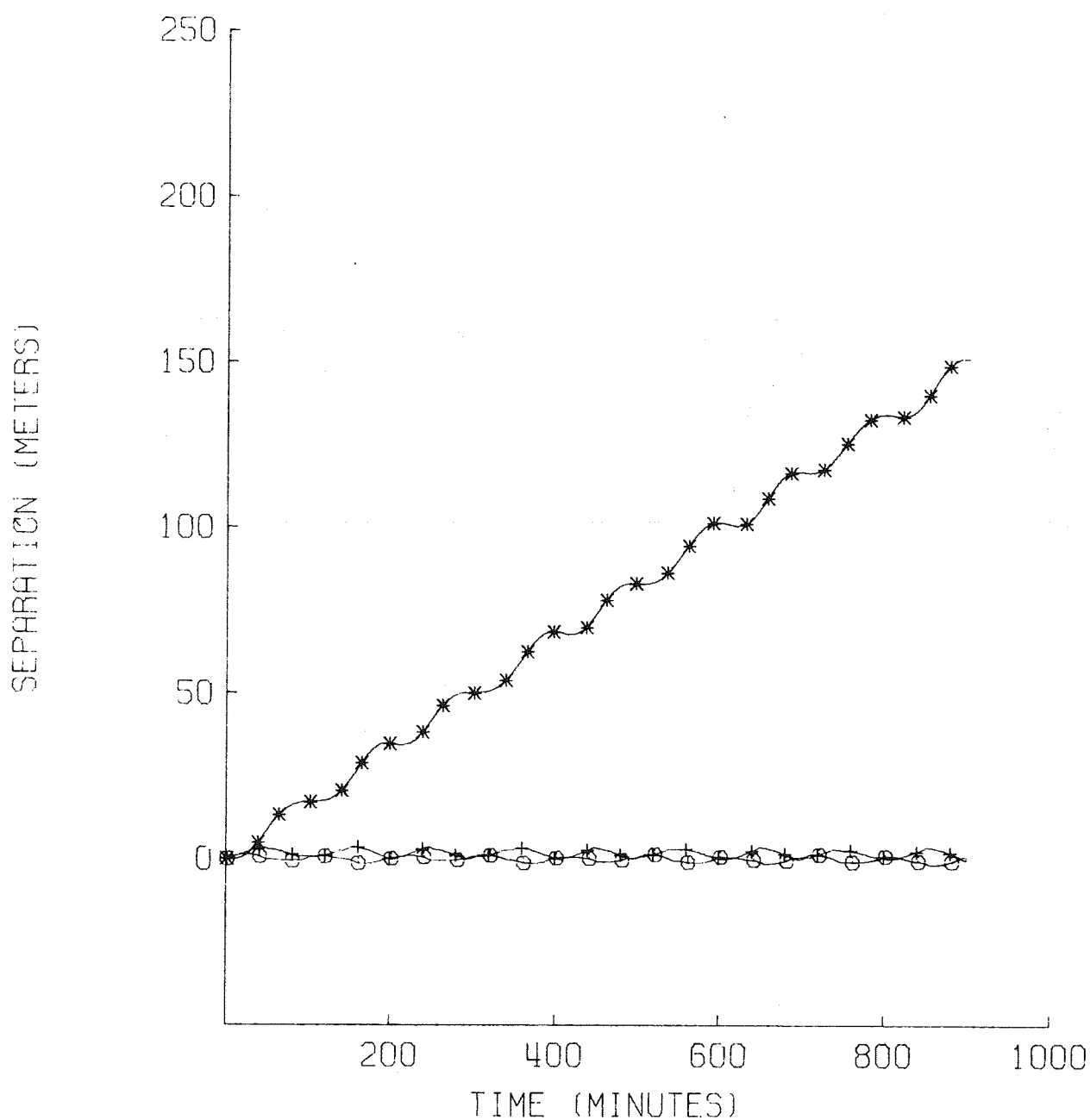
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7135.6535

RUN FOR S(8 , 8) = -.1090
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

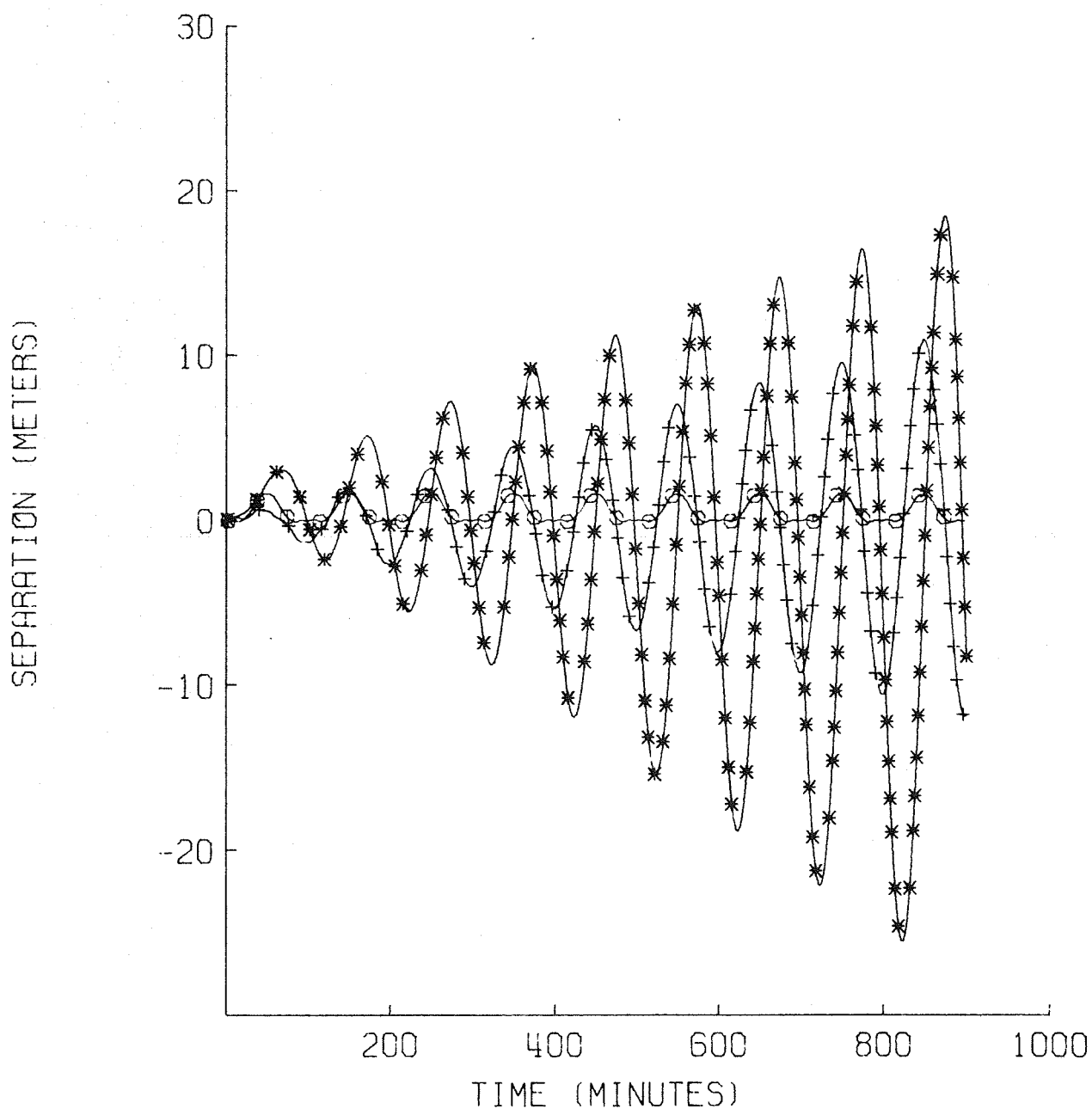
RUN FOR C(9 ,0) = .0689

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

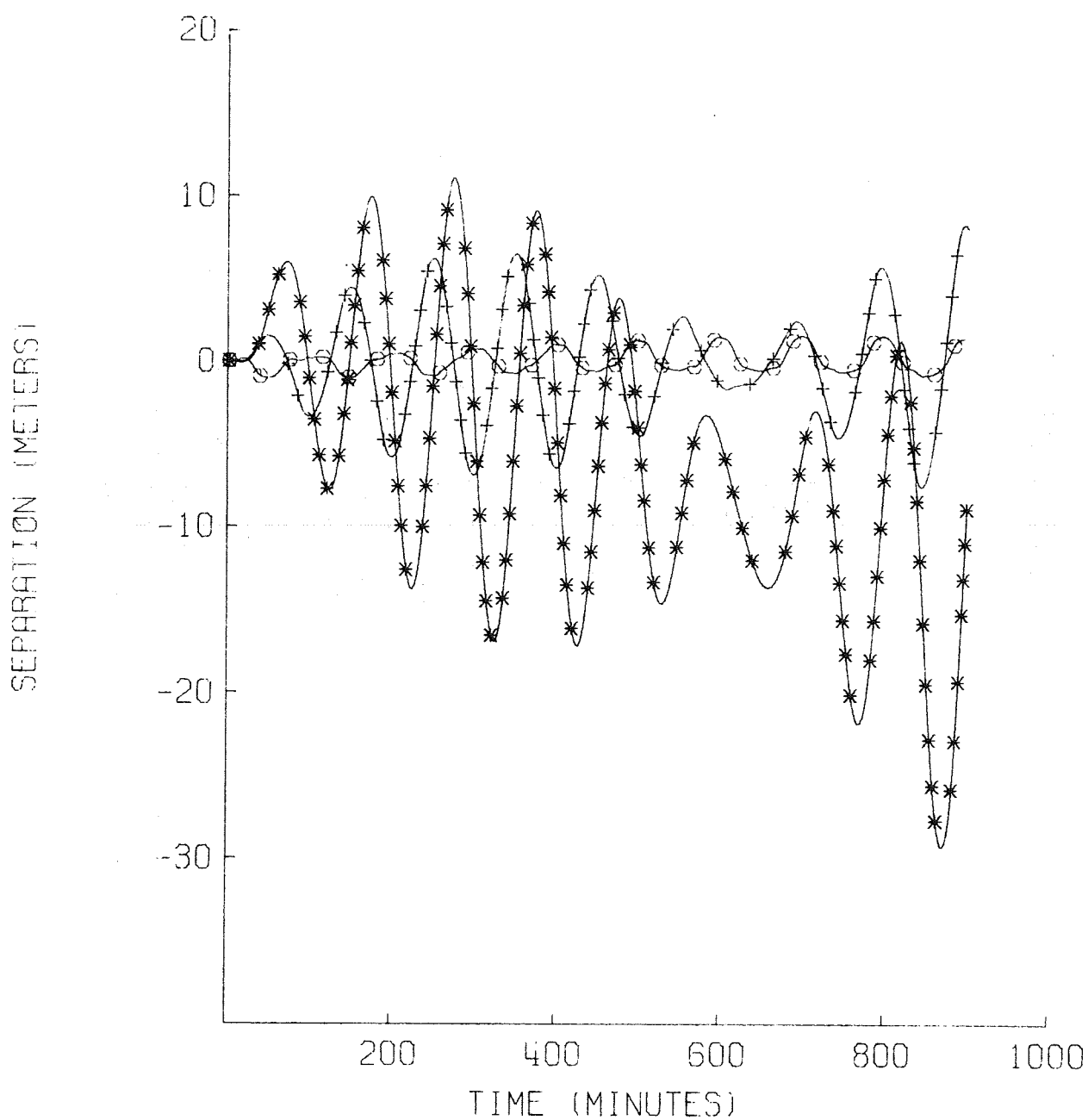
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(9 , 1) = .1598
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

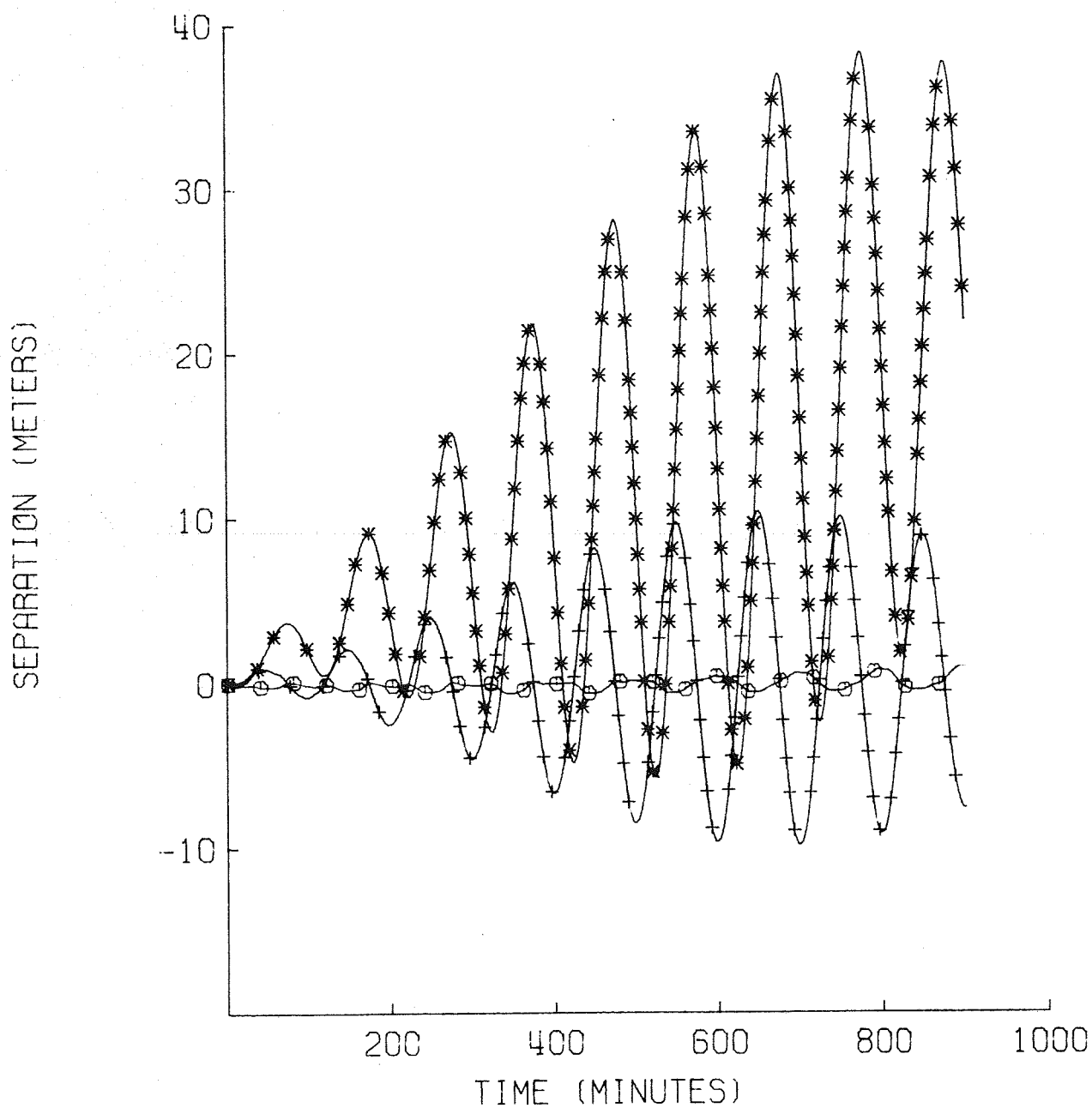
RUN FOR S(9 ,1) = -.0966

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

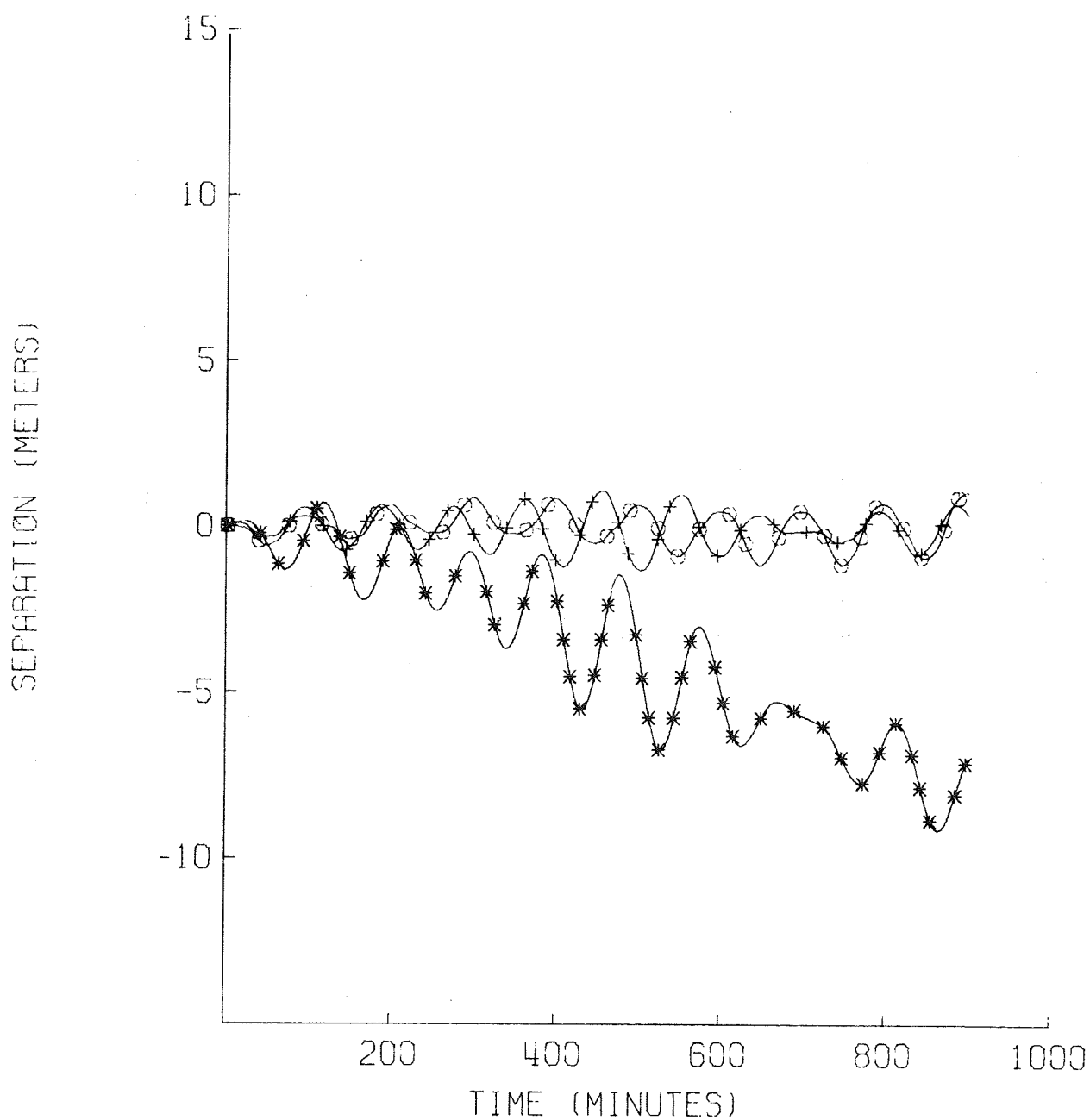
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(9 , 2) = .0418
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

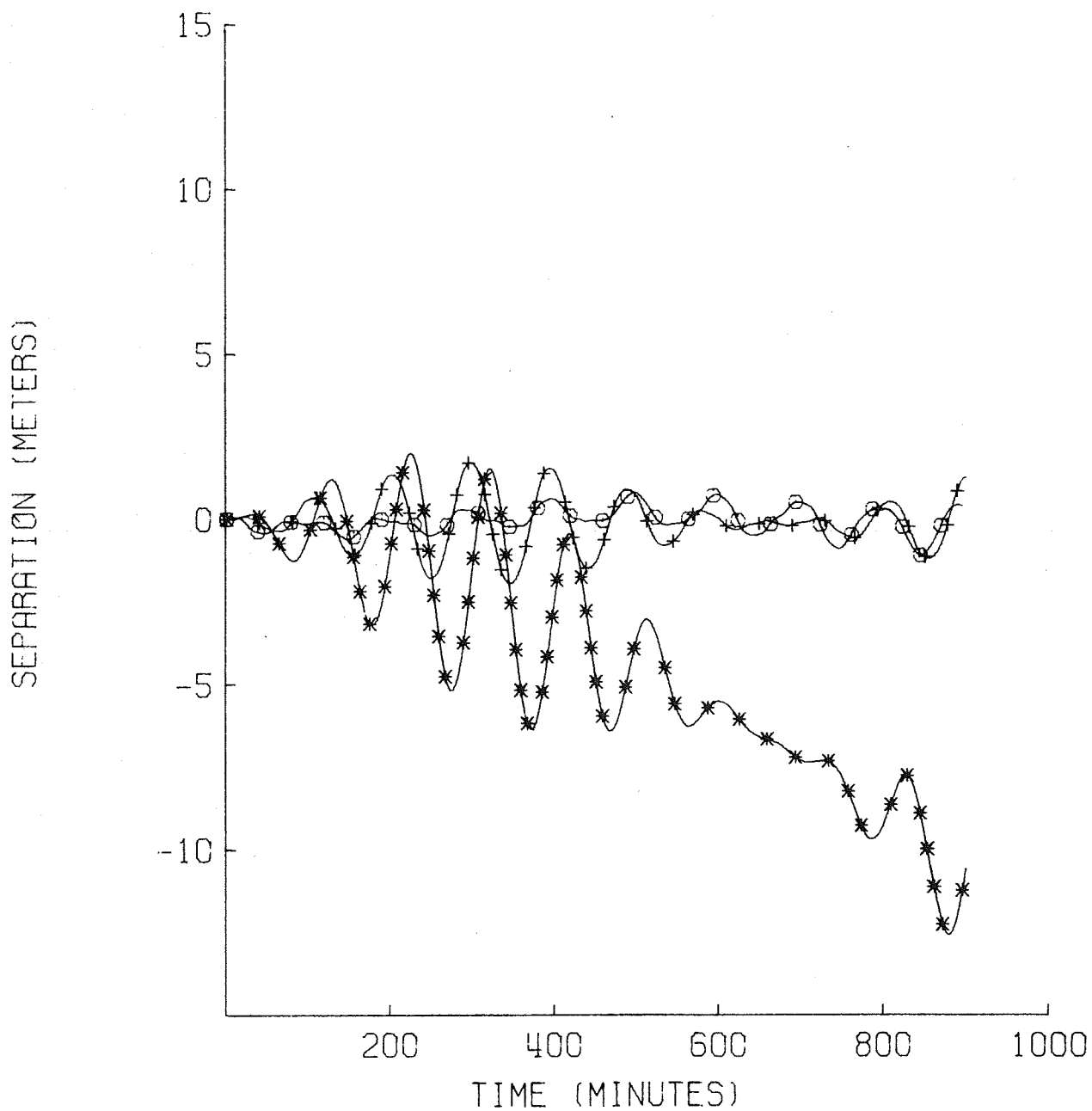
RUN FOR S(9 .2) = -.0452

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(⊖) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7135.6535

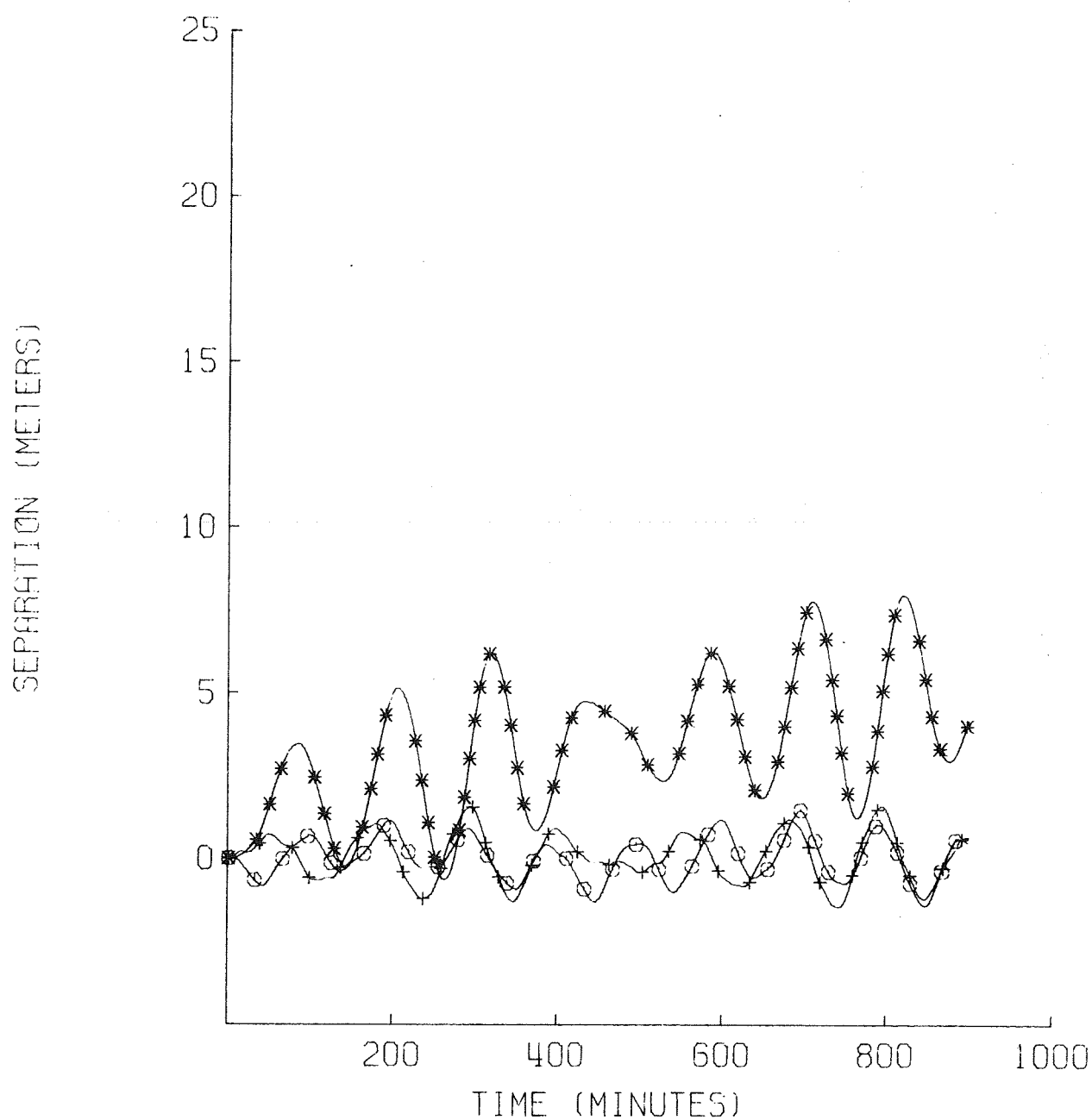
RUN FOR C(9 ,3) = -.0575

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

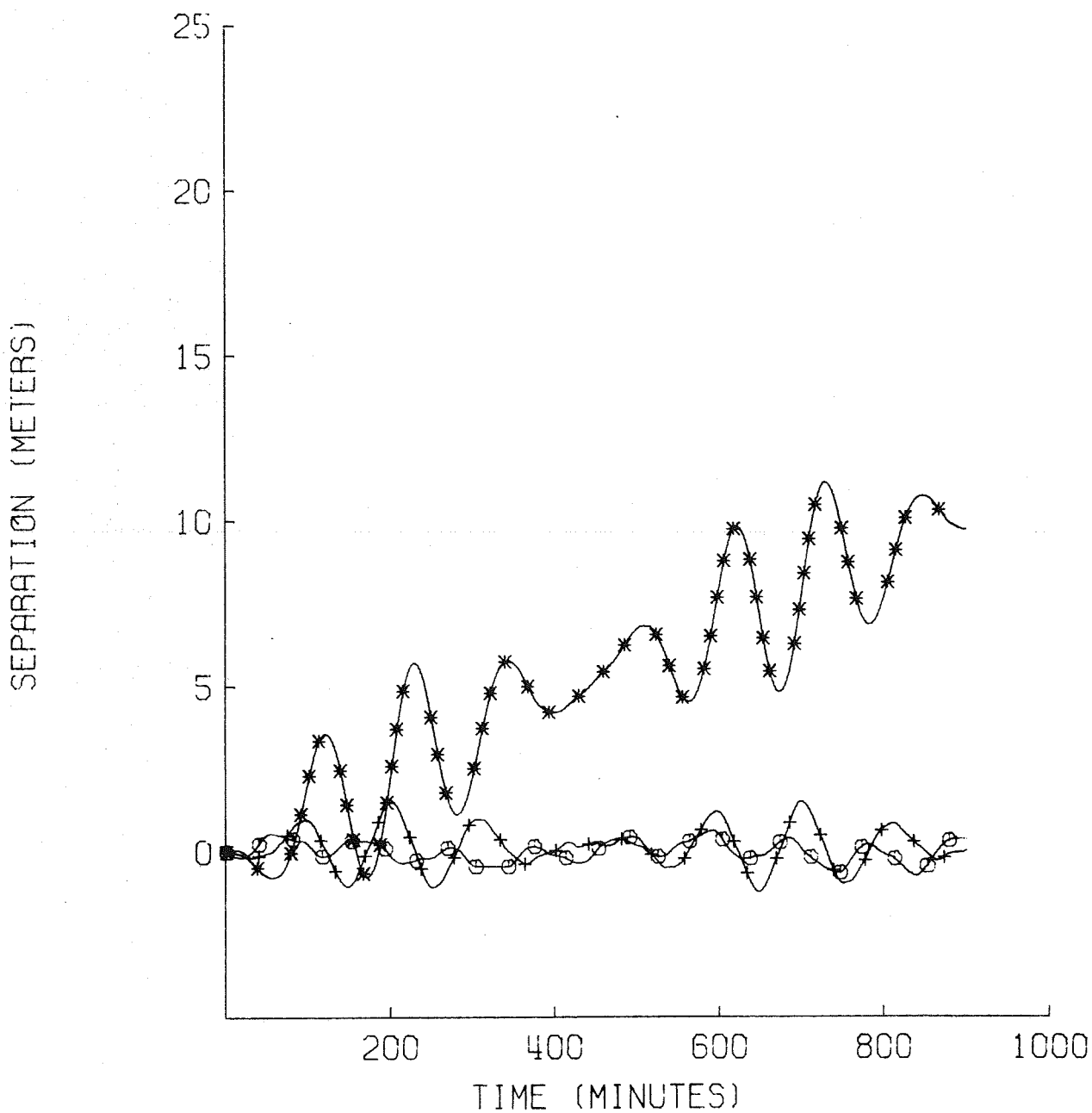
RUN FOR S(9 , 3) = -.0415

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

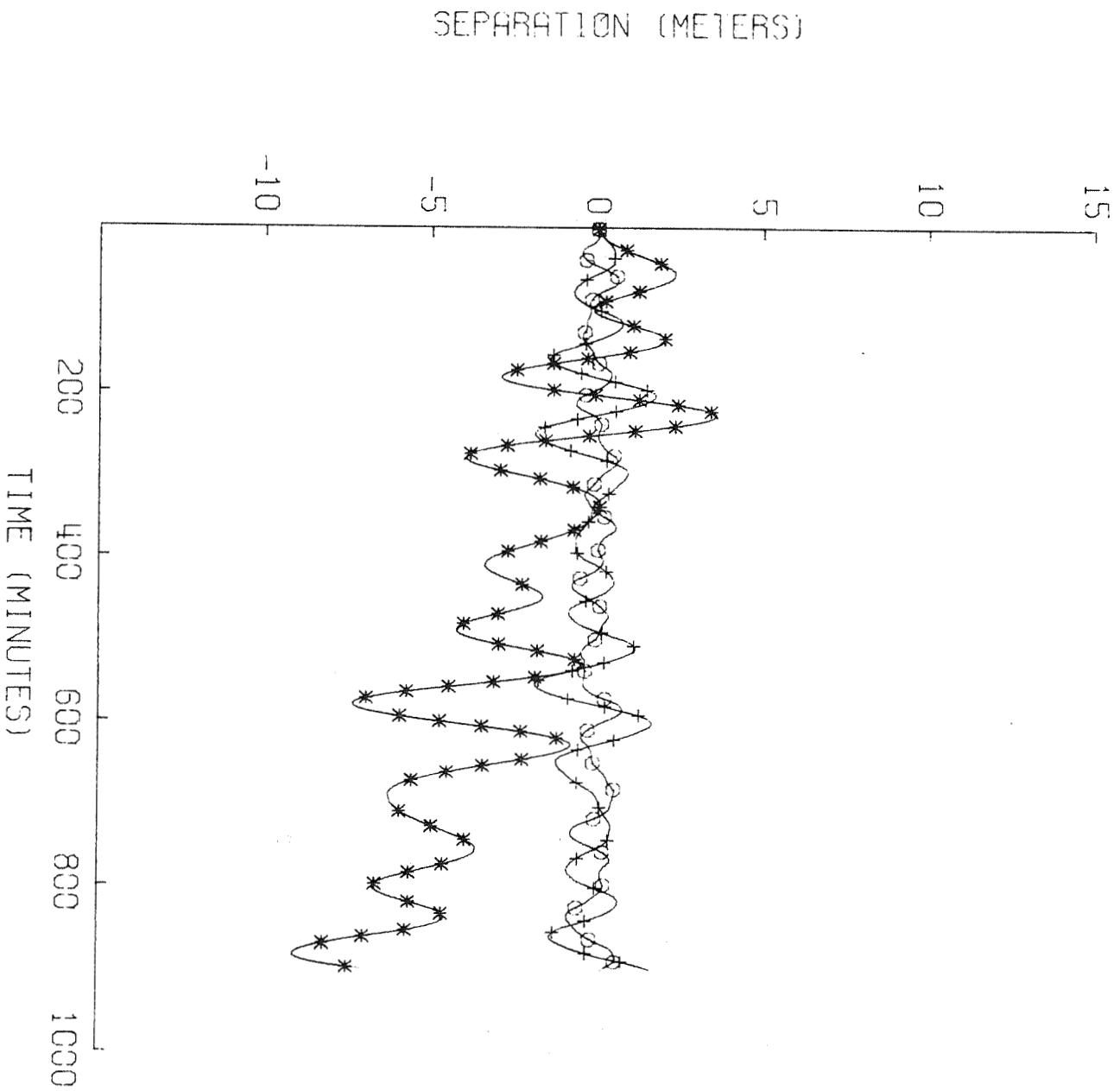
(O) BI-NORMAL CROSS-TRACK



M	0.0000	OMEGA	0.0000	C OMEGA	0.0000	I	45.00000	E	.00500000	A	7135.6535
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RUN FOR C(9 , 4) = .0502
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

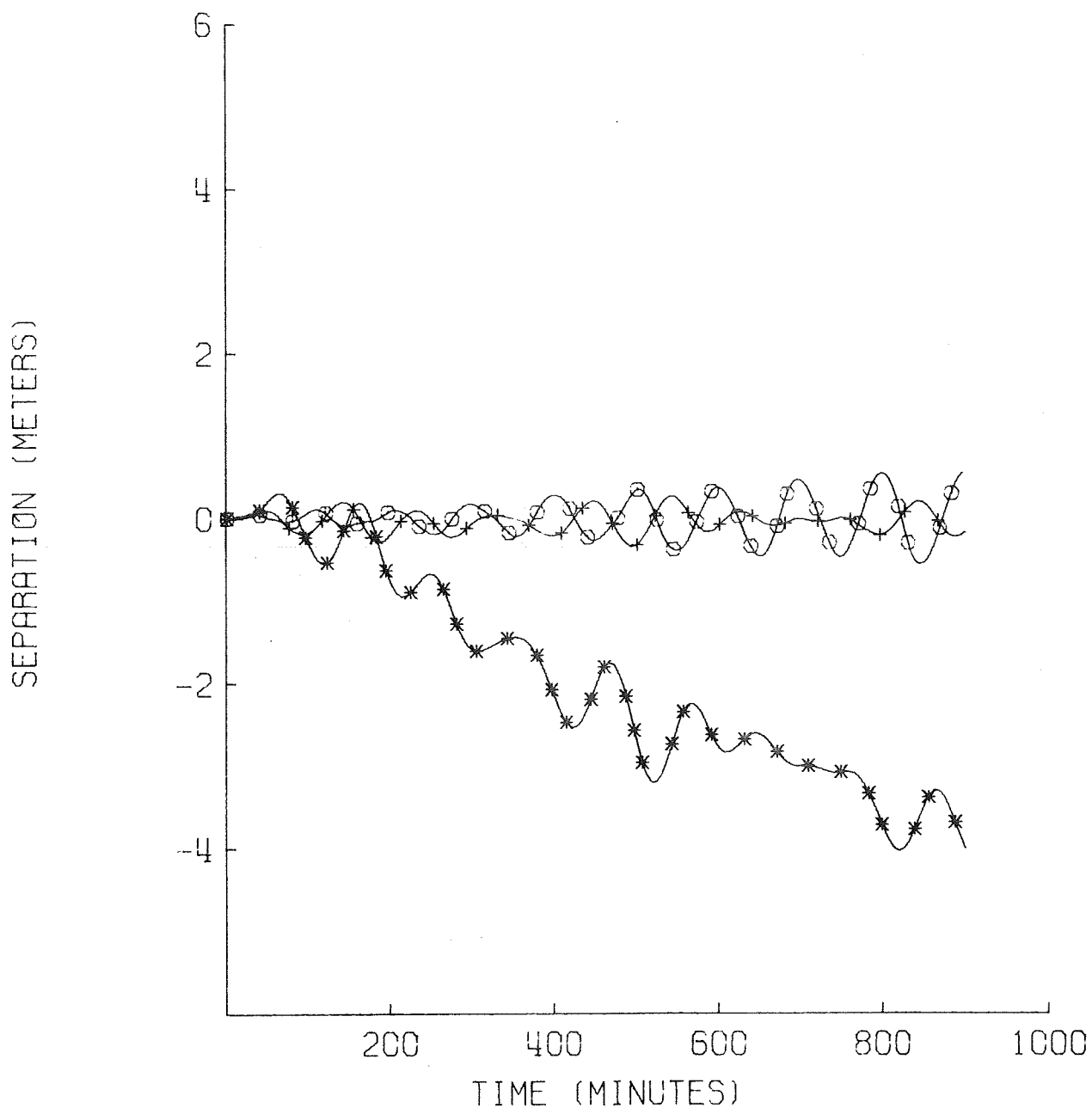
RUN FOR S(9 ,4) = -.0060

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

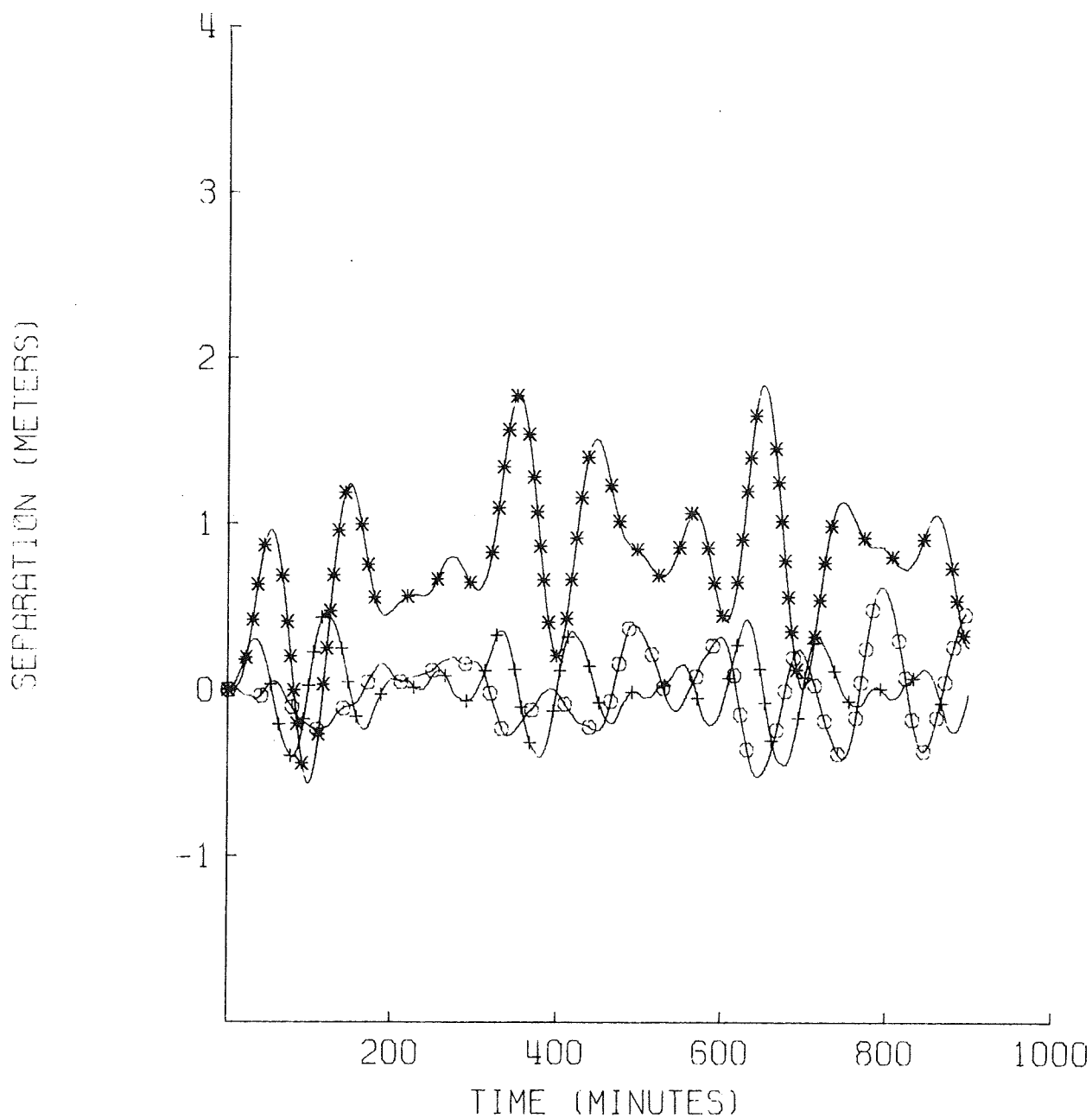
RUN FOR C(9 ,5) = -.0135

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

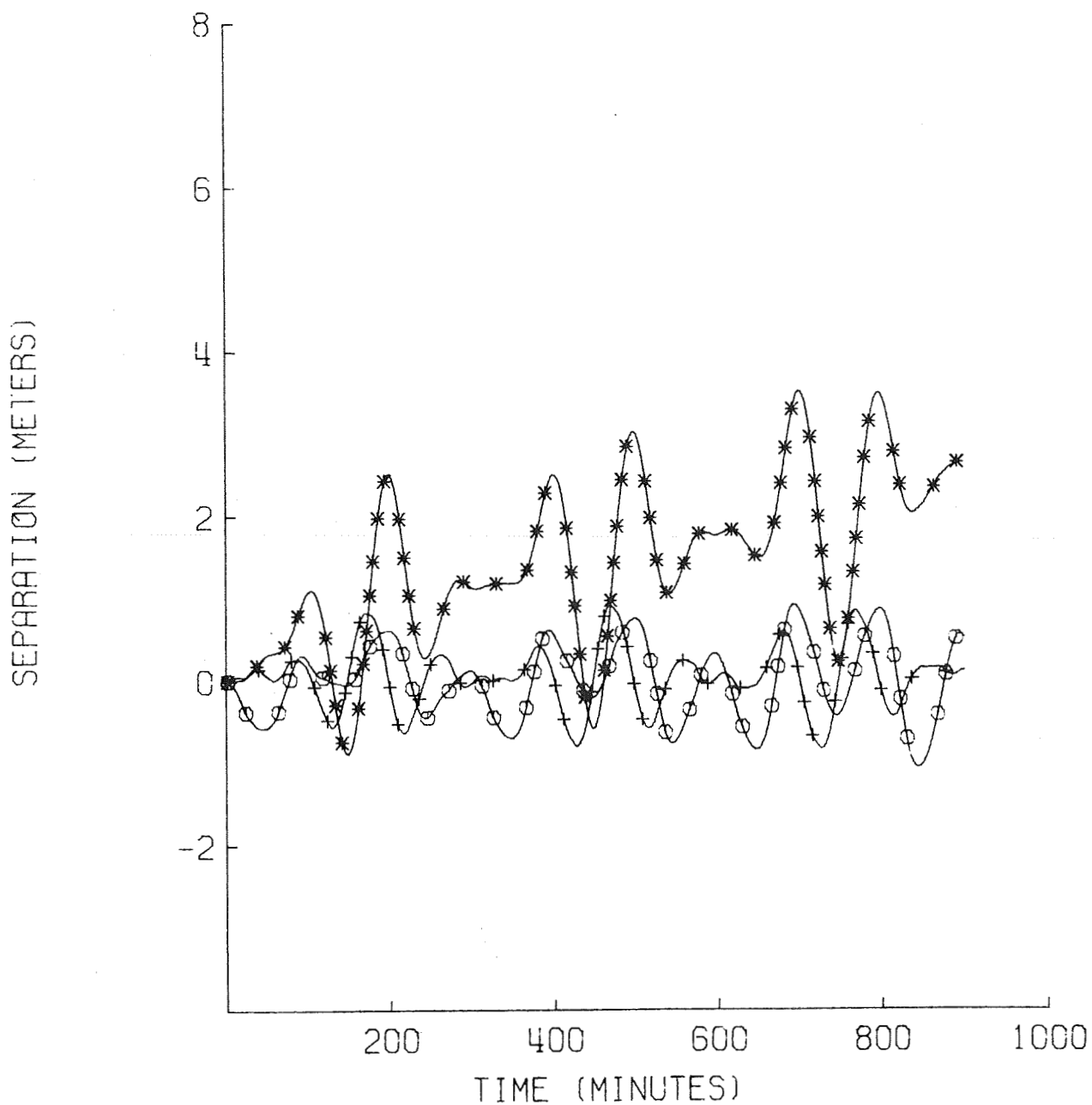
RUN FOR S(9 ,5) = -.0241

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

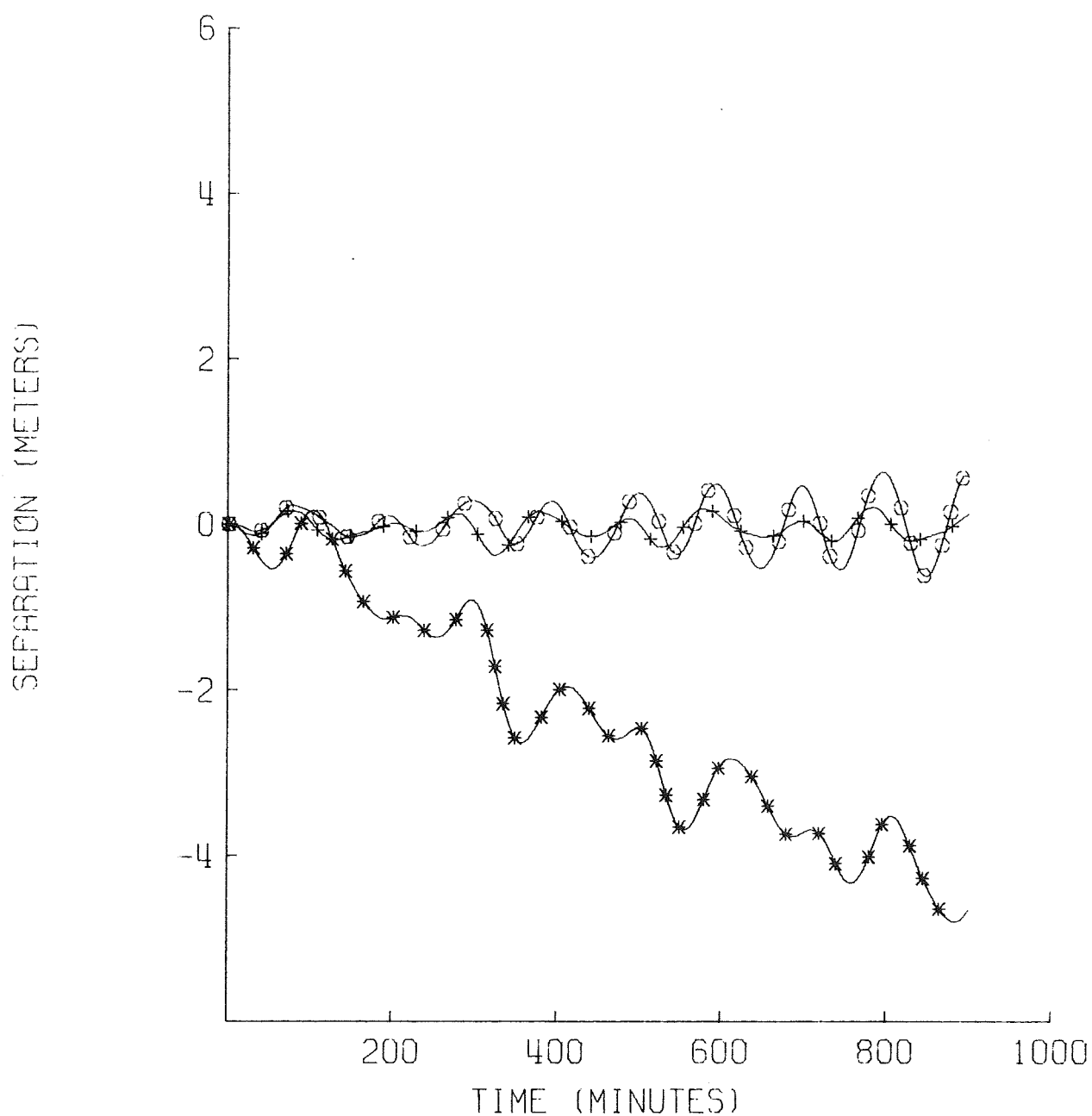
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(9 ,6) = -.0074
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

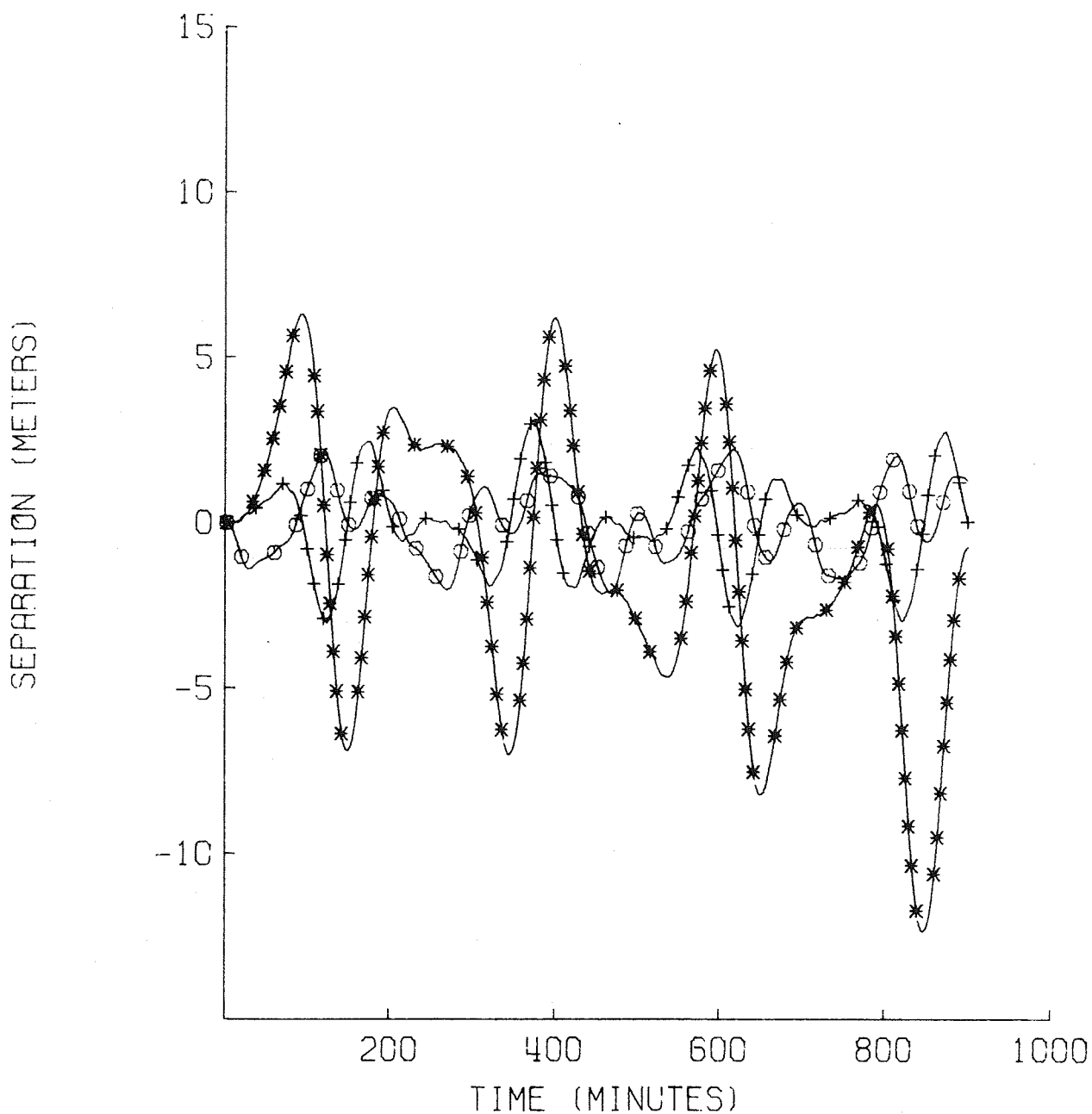
RUN FOR S(9 ,6) = .0812

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

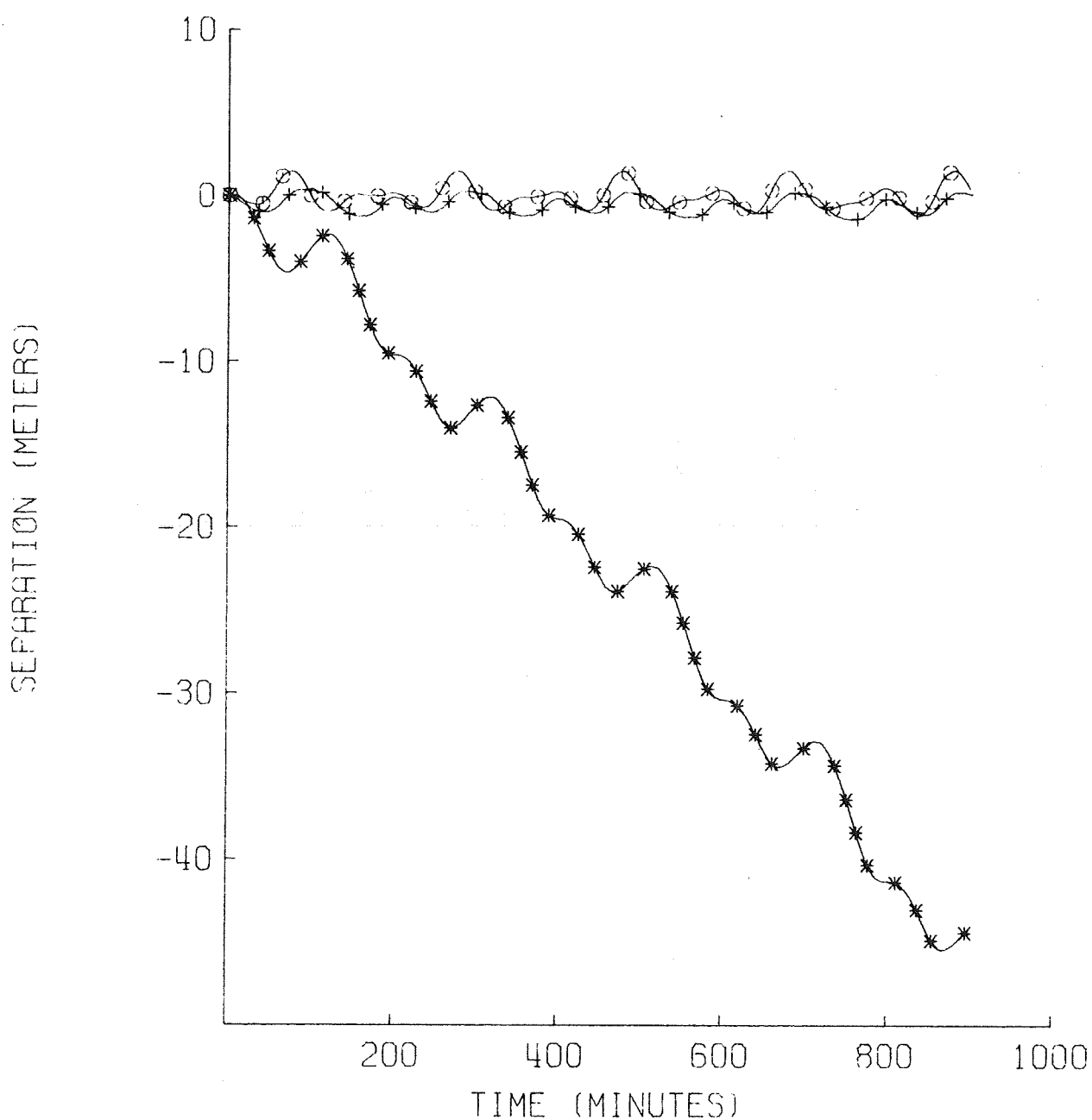
RUN FOR C(9 .7) = .0386

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(⊖) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

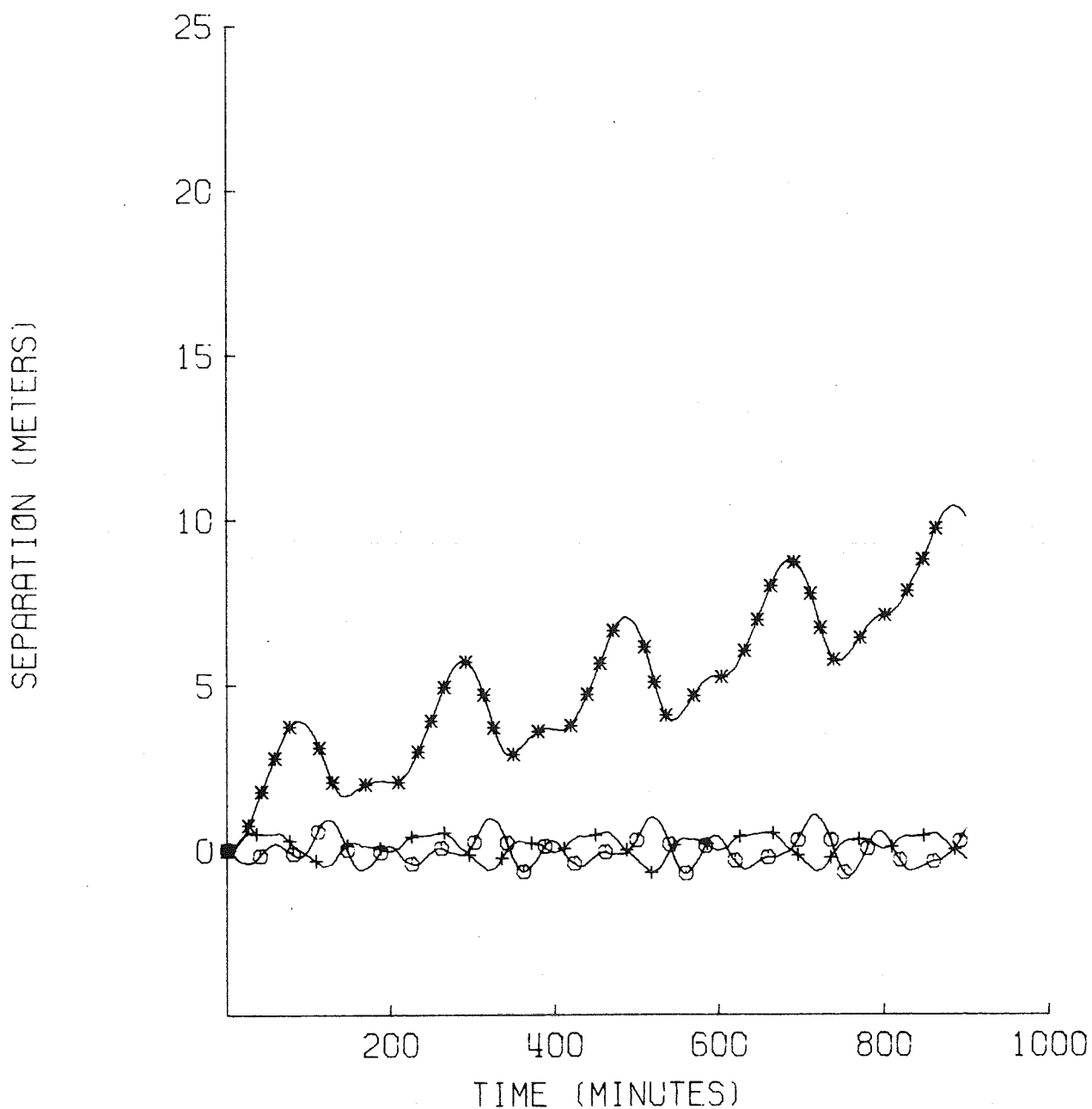
RUN FOR S(9 ,7) = -.0343

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(⊖) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

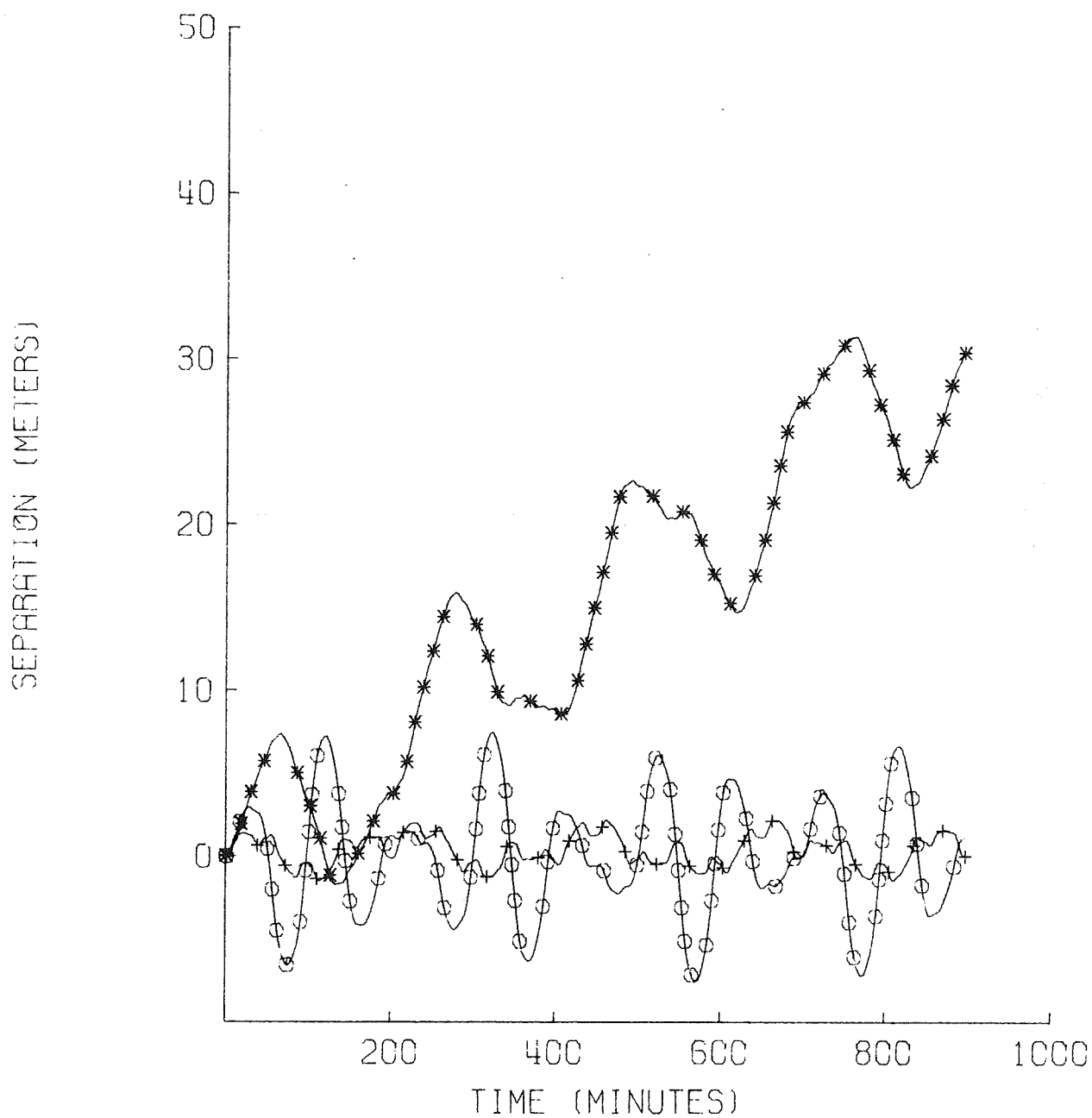
RUN FOR C(9 , 8) = .2436

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

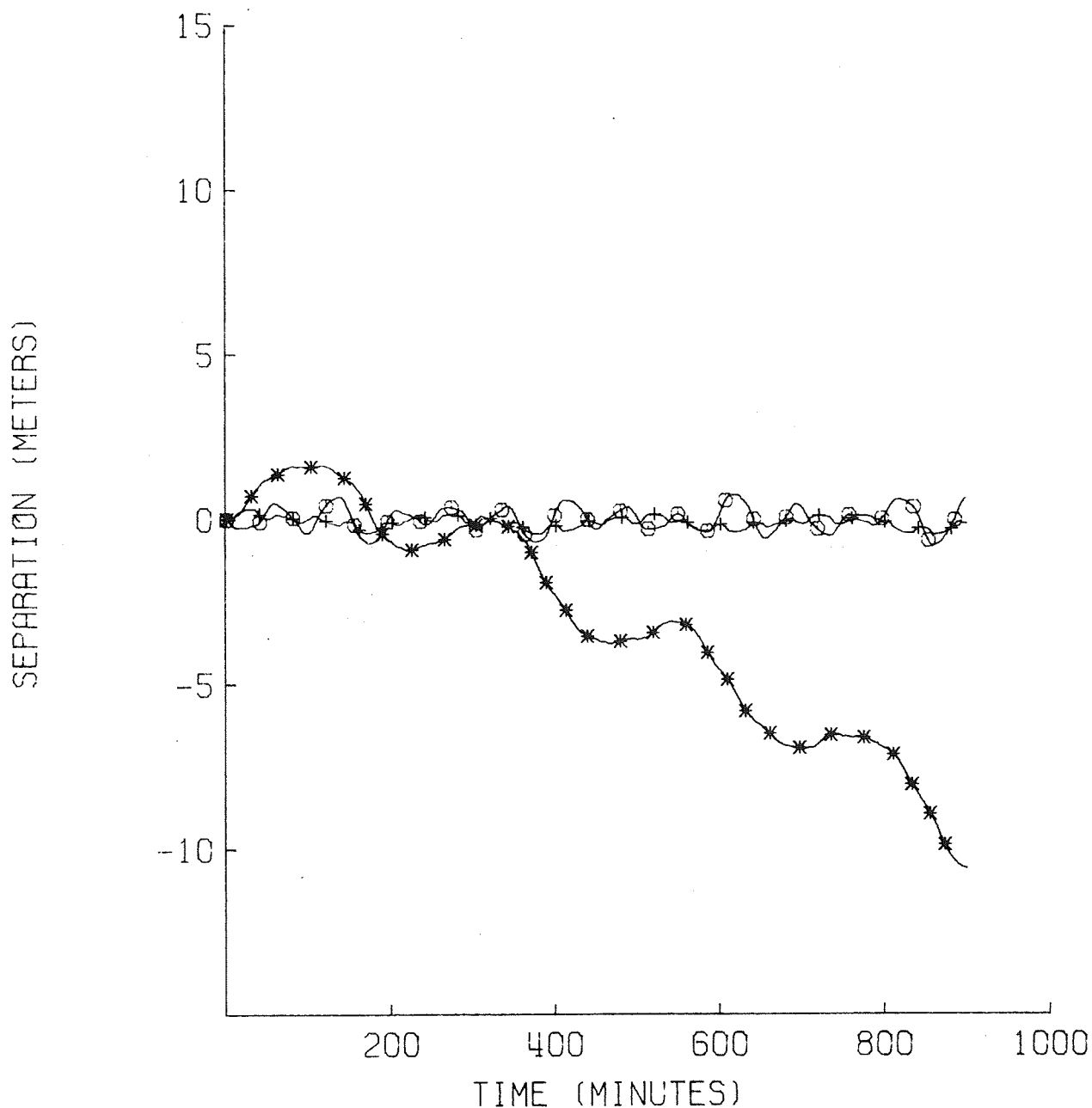
RUN FOR S(9 ,8) = .0445

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

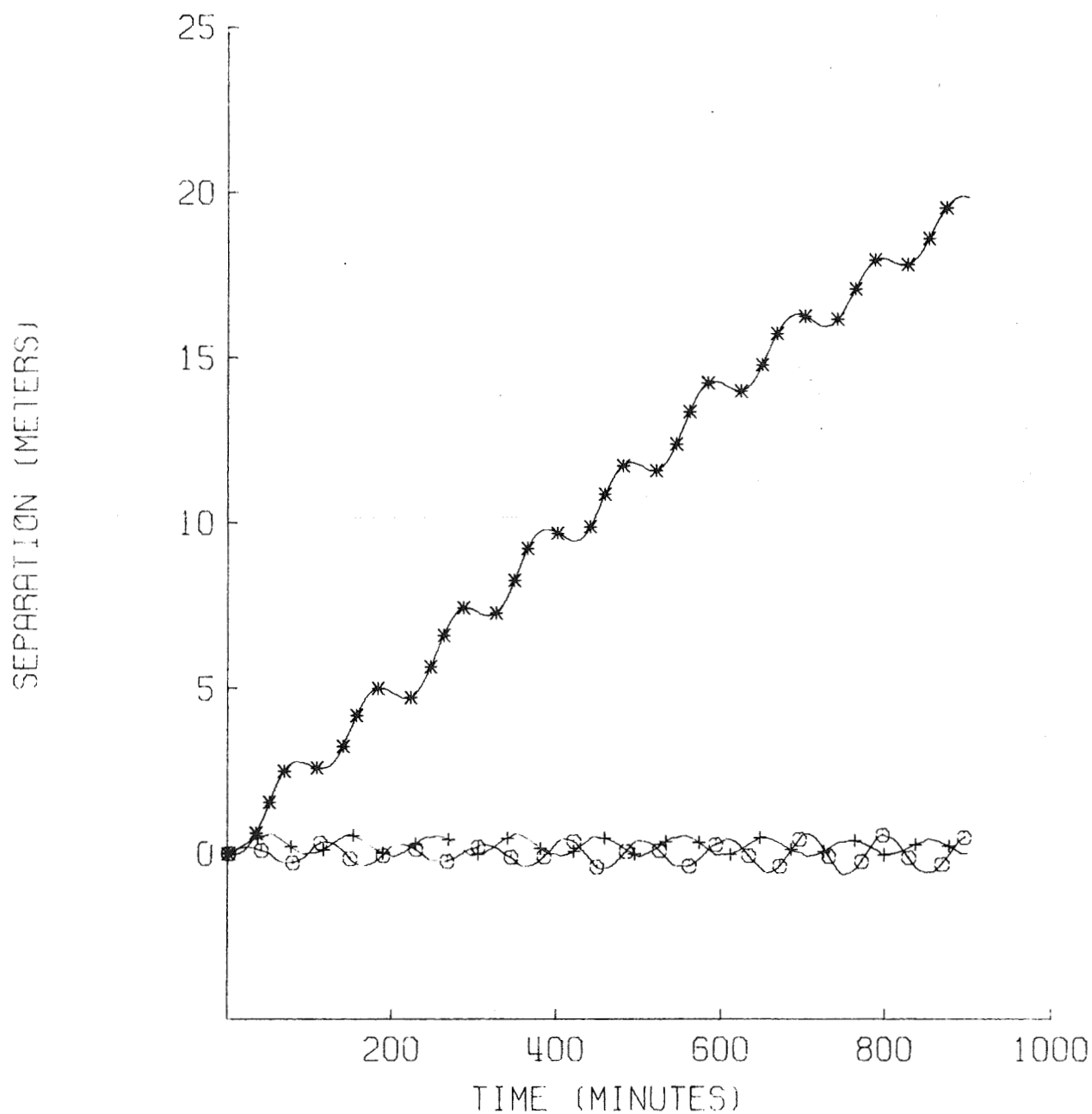
RUN FOR C(9 .9) = -.0186

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

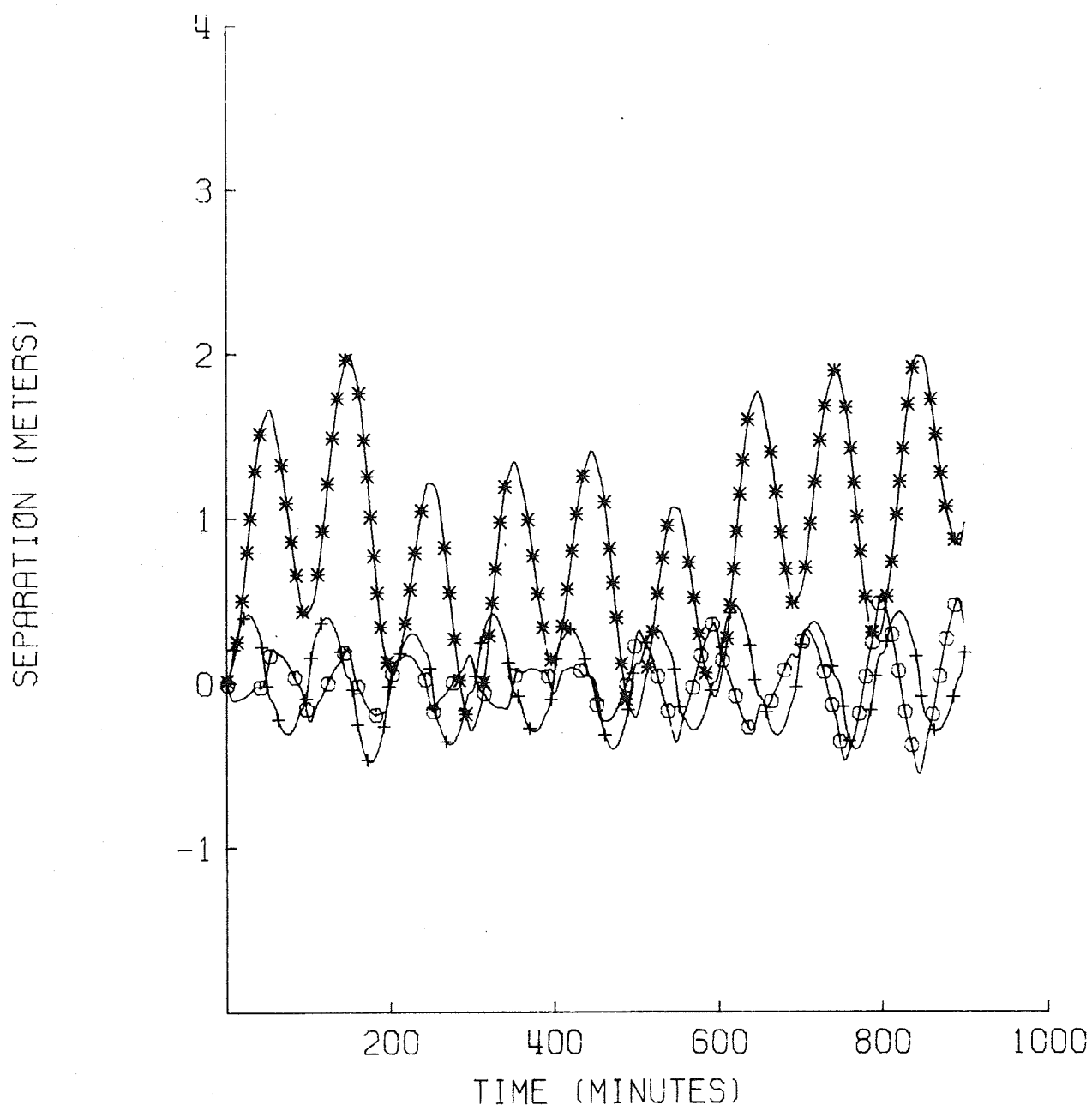
RUN FOR S(9 ,9) = -.0342

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

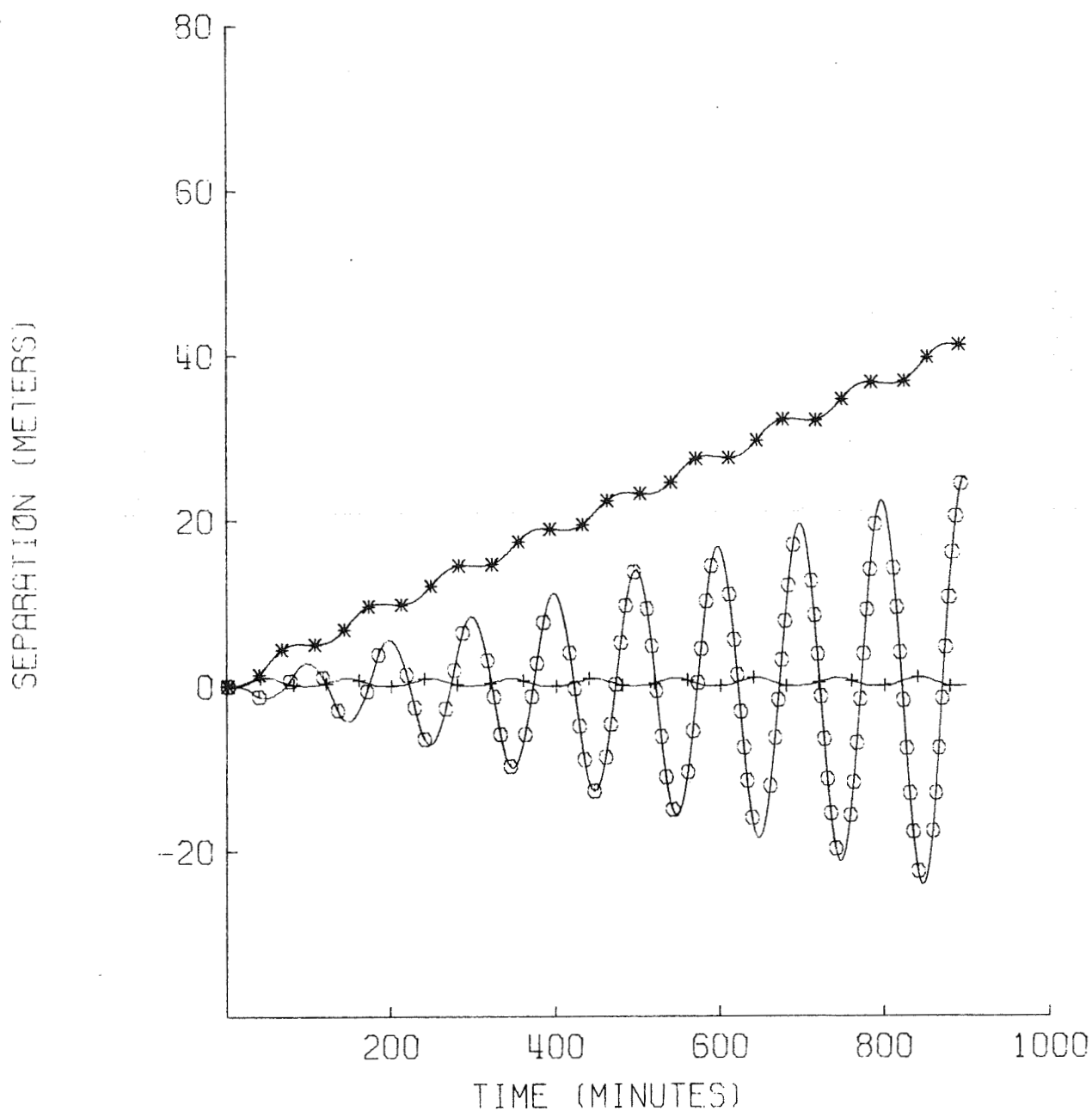
RUN FOR C(10,0) = -.0589

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7135.6535

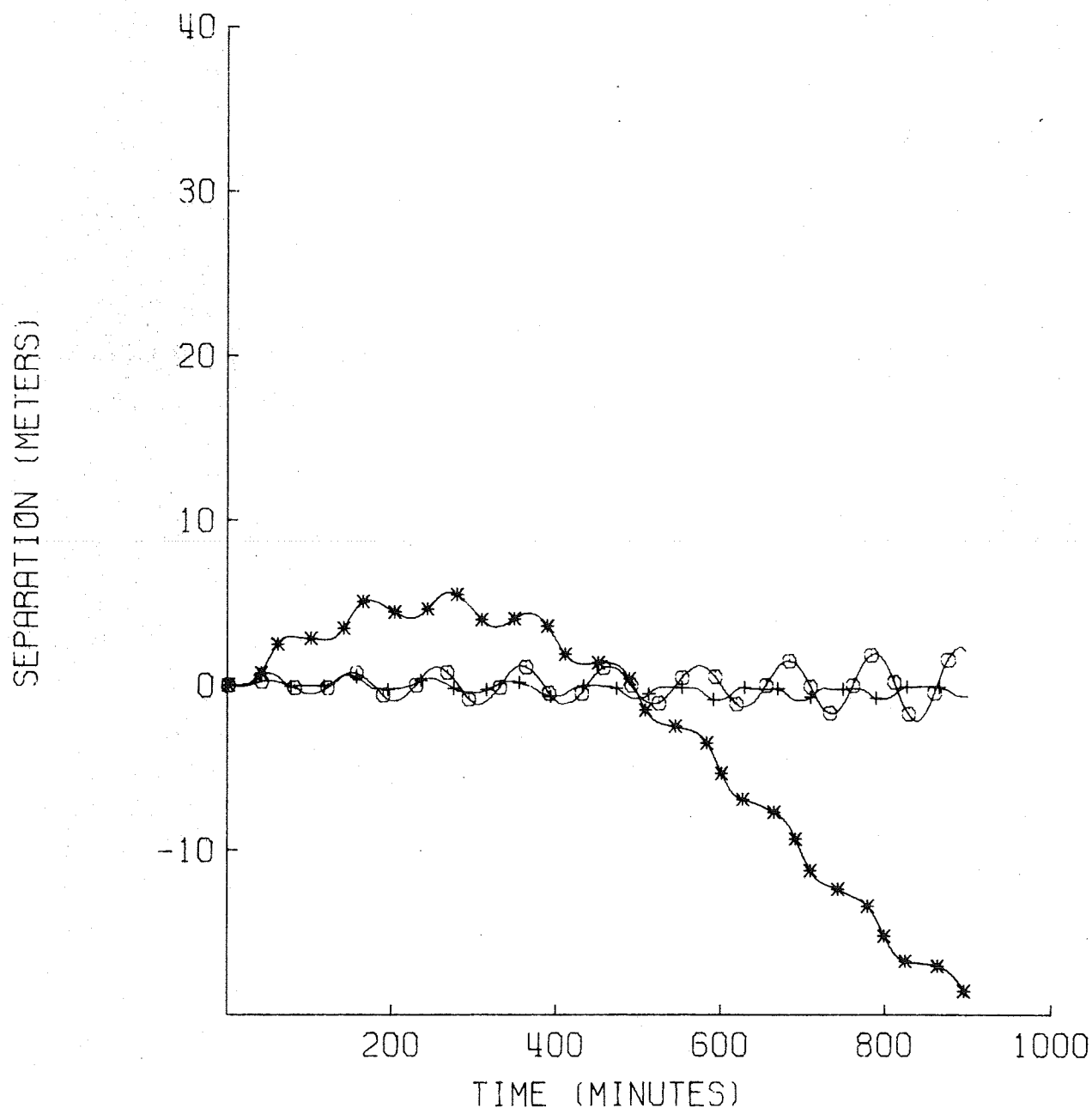
RUN FOR C(10,1) = .0773

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK

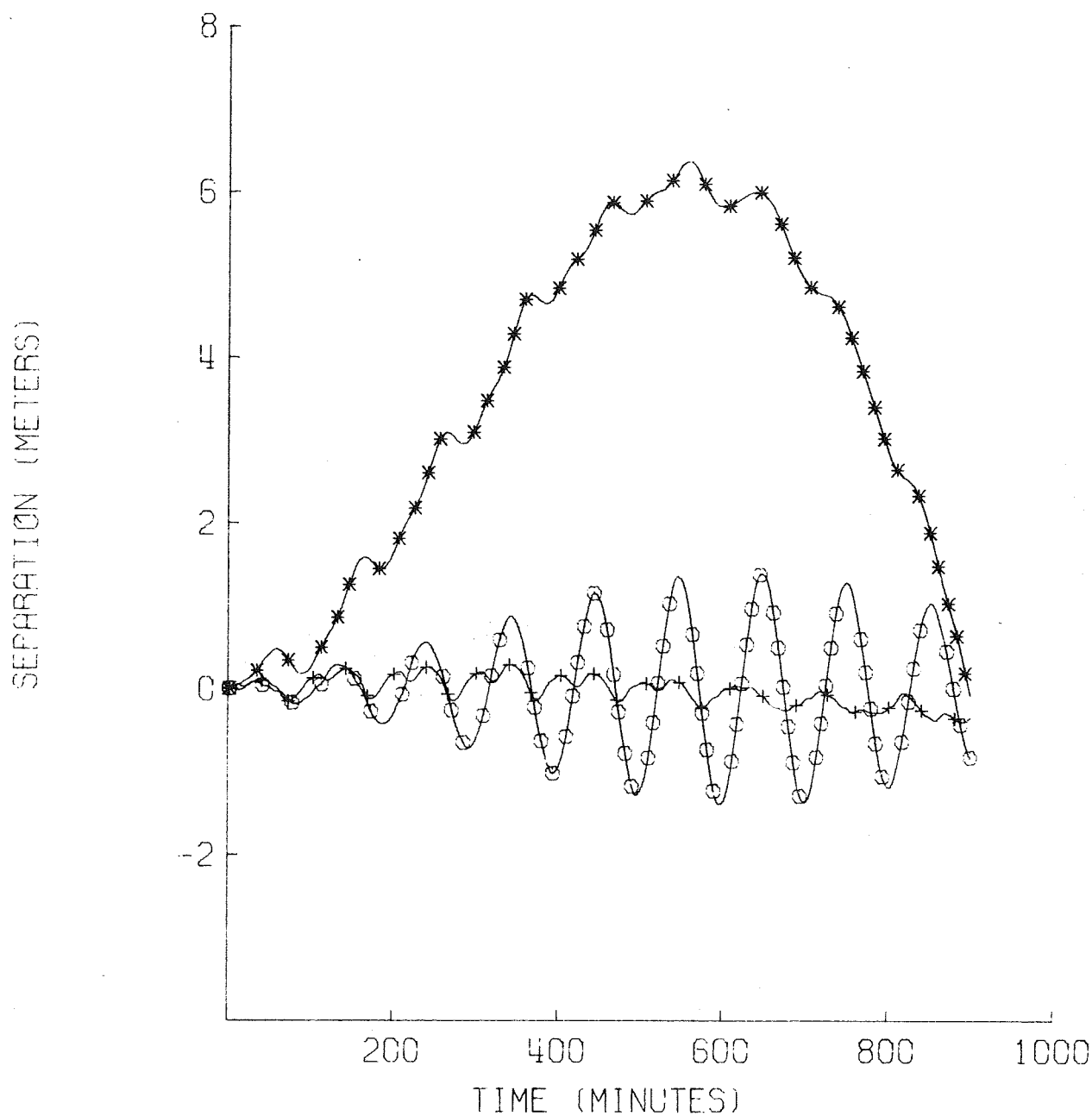


M	OMEGA	C	OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535	

RUN FOR S(10,1) = -.0493

FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

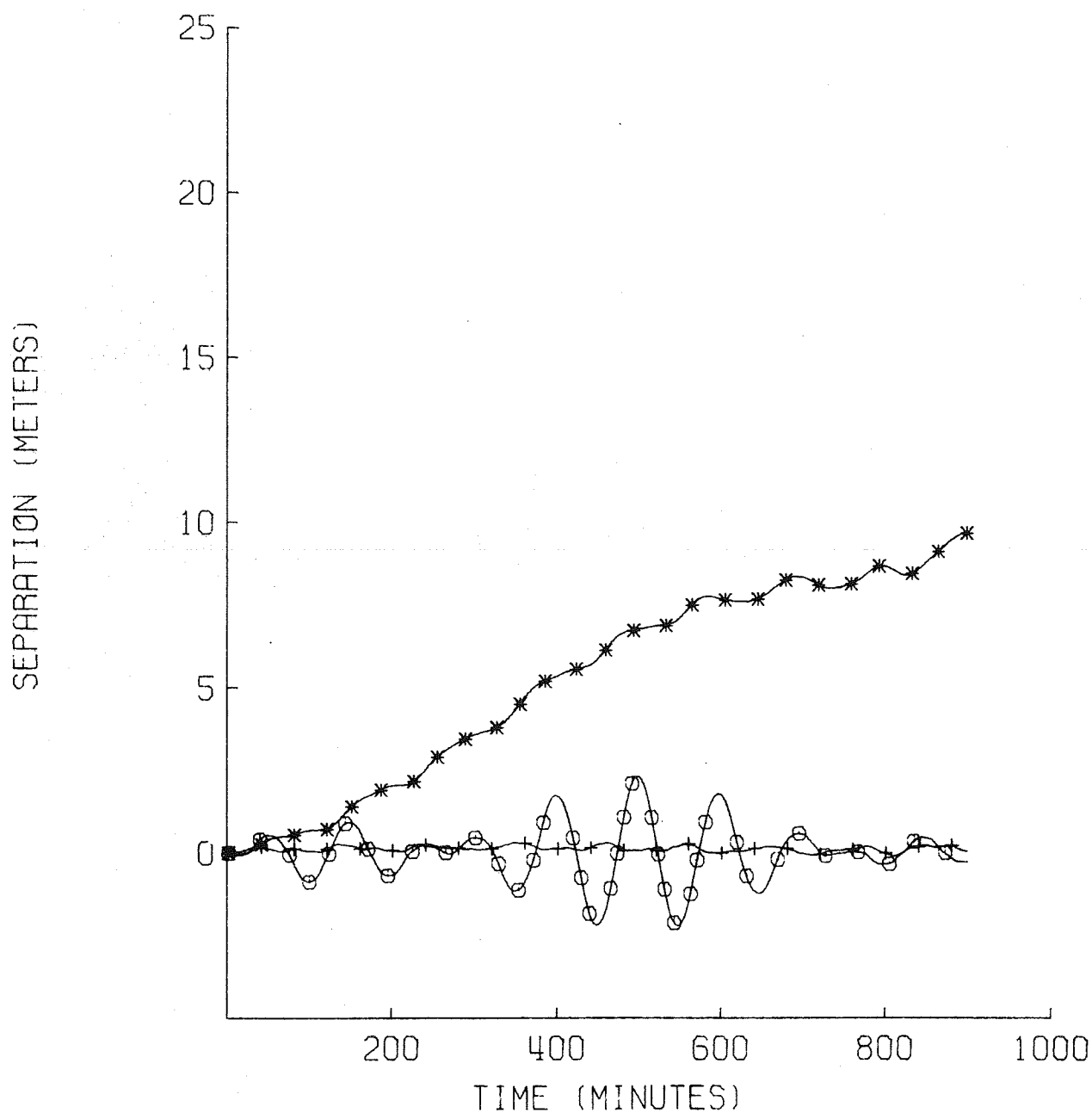
RUN FOR C(10,2) = -.0398

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

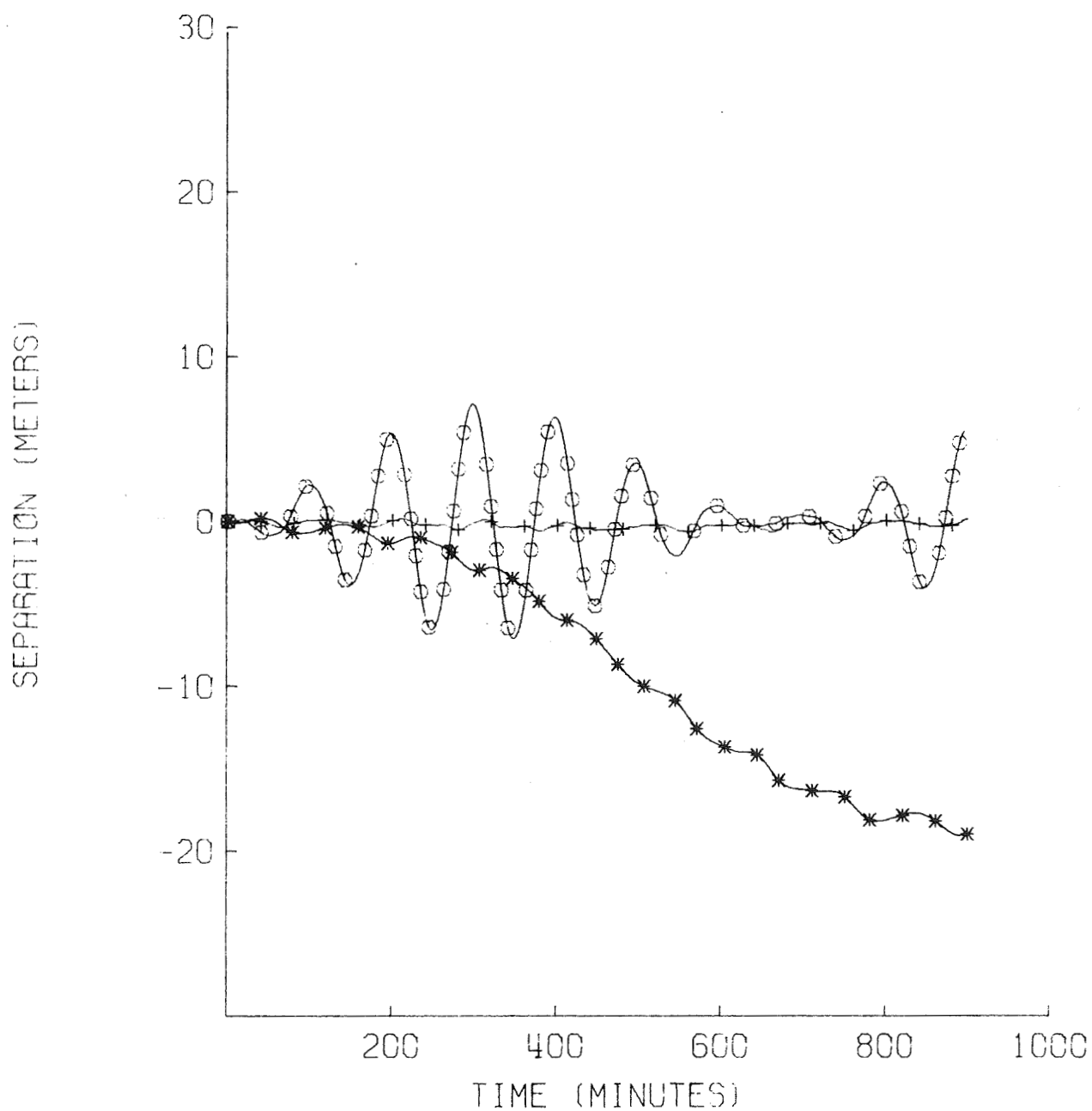
RUN FOR S(10,2) = -.0933

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

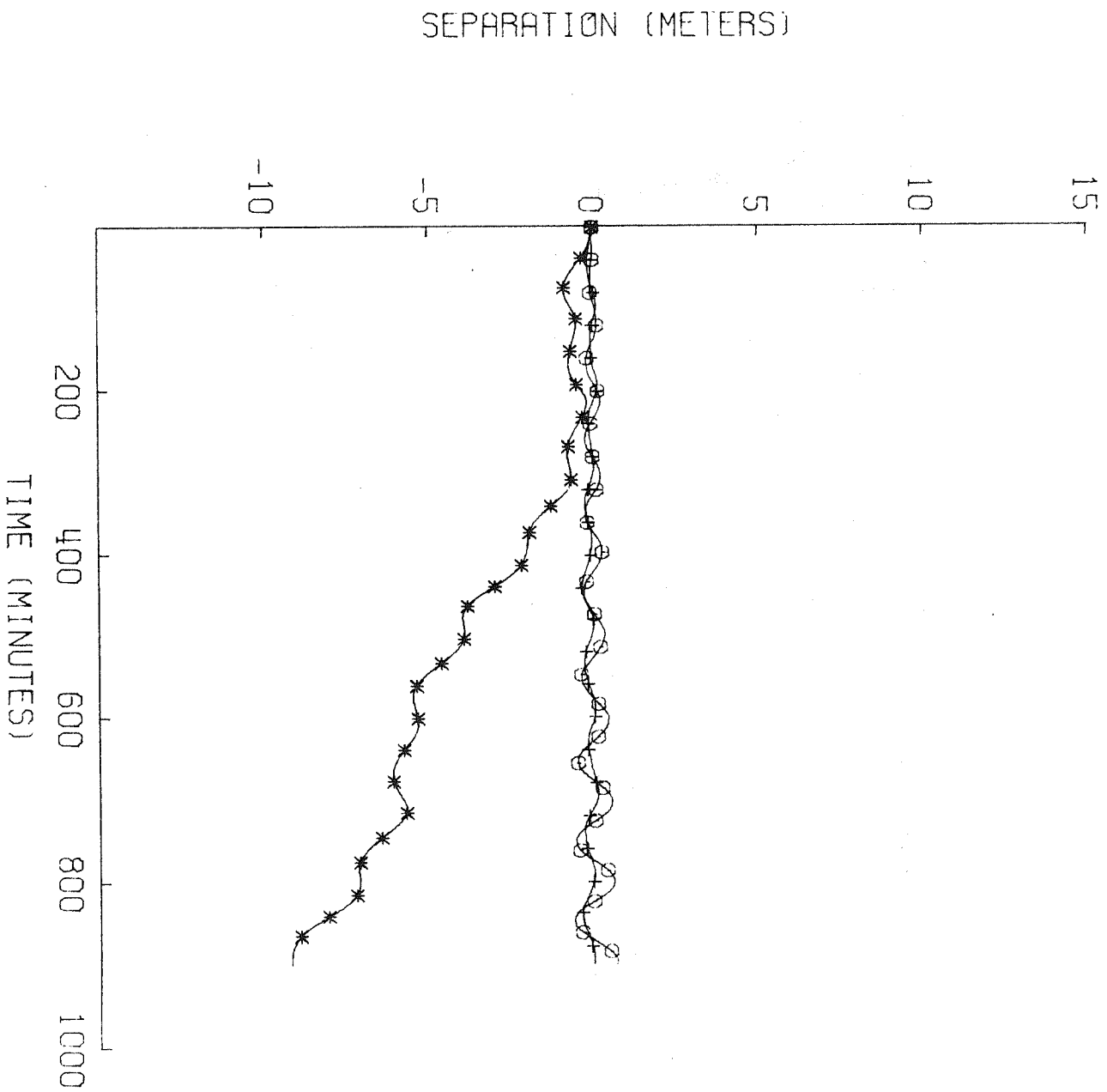
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C	OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7135.6535	

RUN FOR C(10, 3) = .0082
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

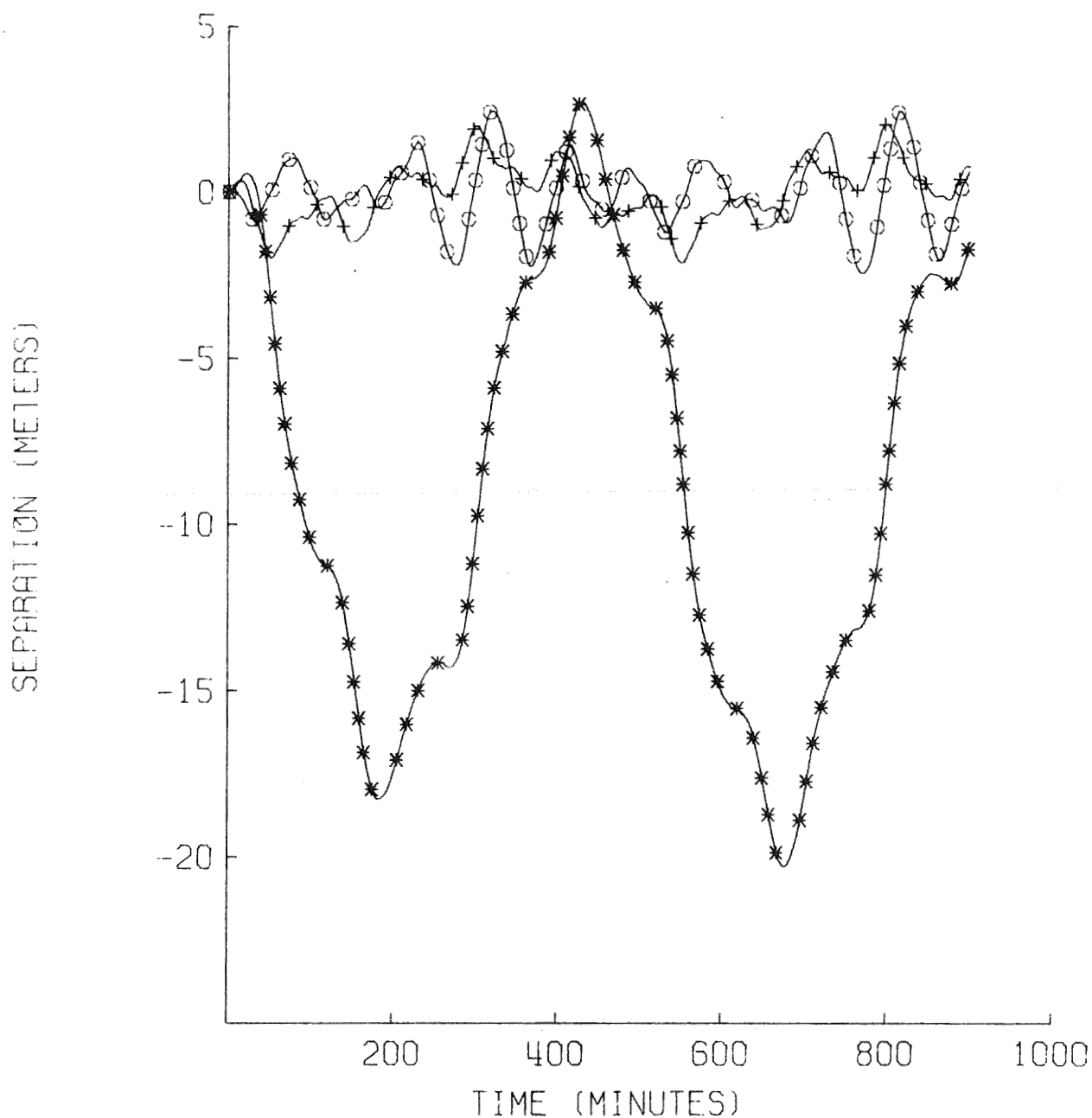
RUN FOR S(10,3) = -.1347

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

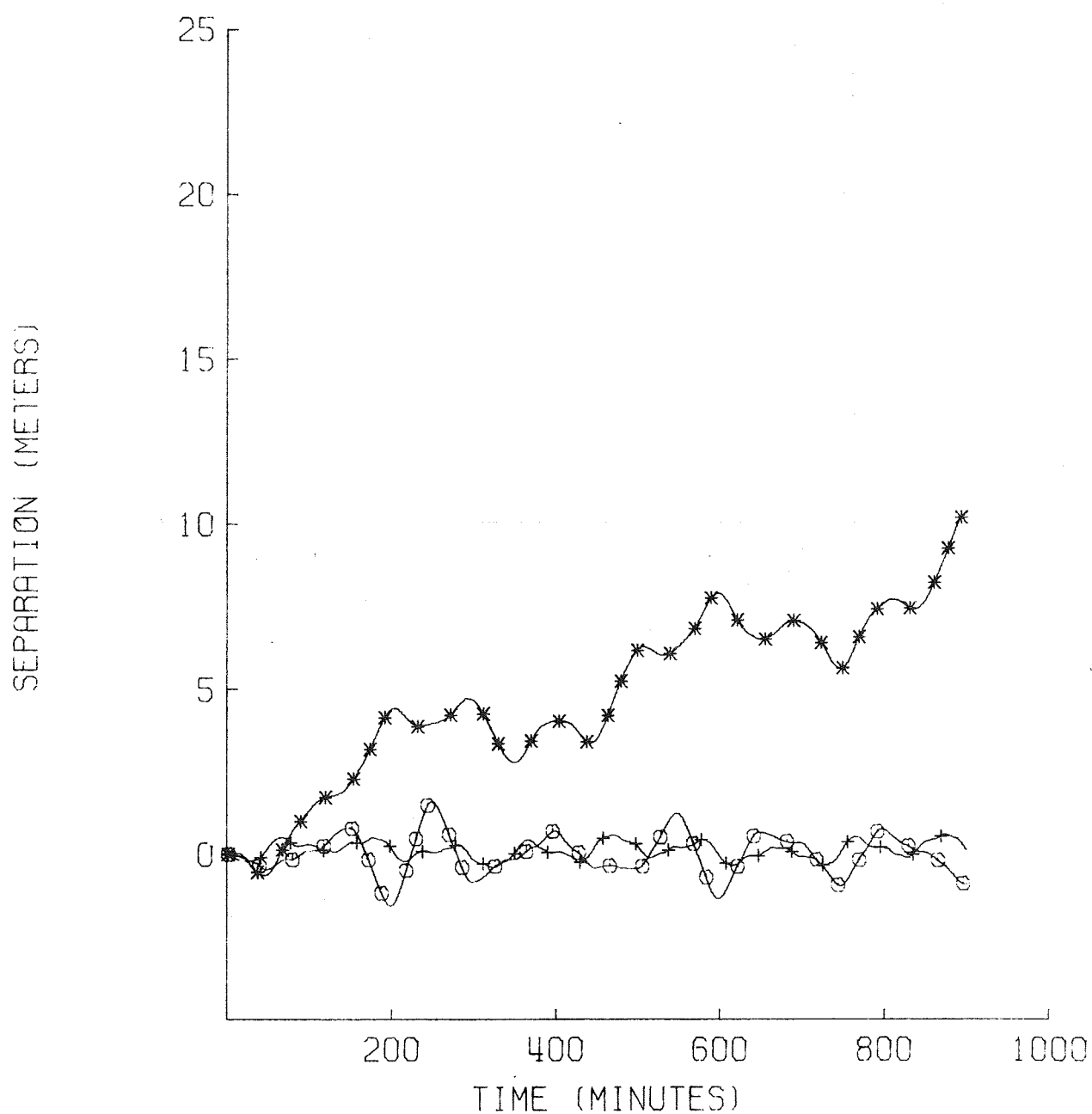
RUN FOR C(10,4) = -.0457

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

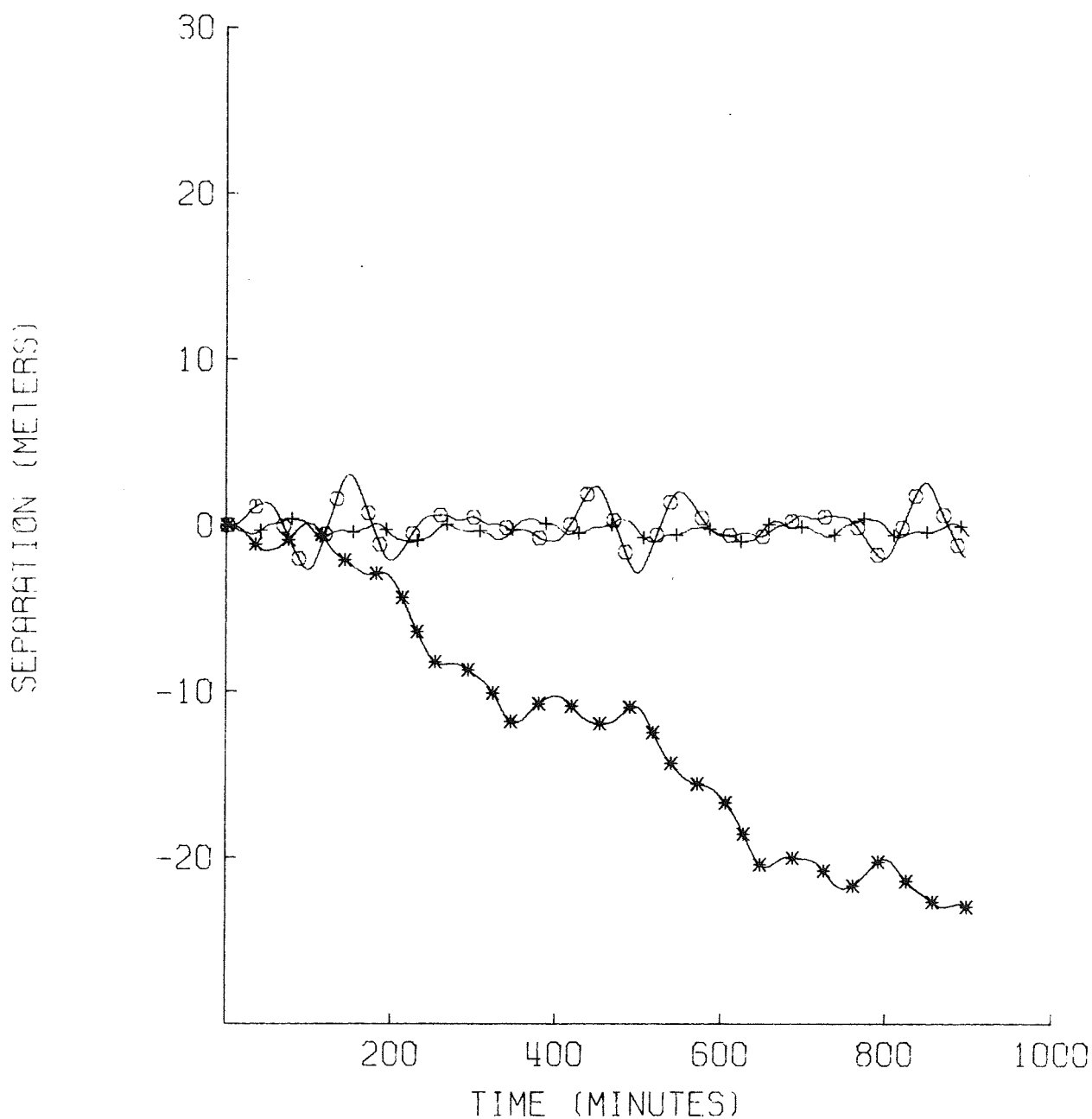
RUN FOR S(10,4) = -.0709

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

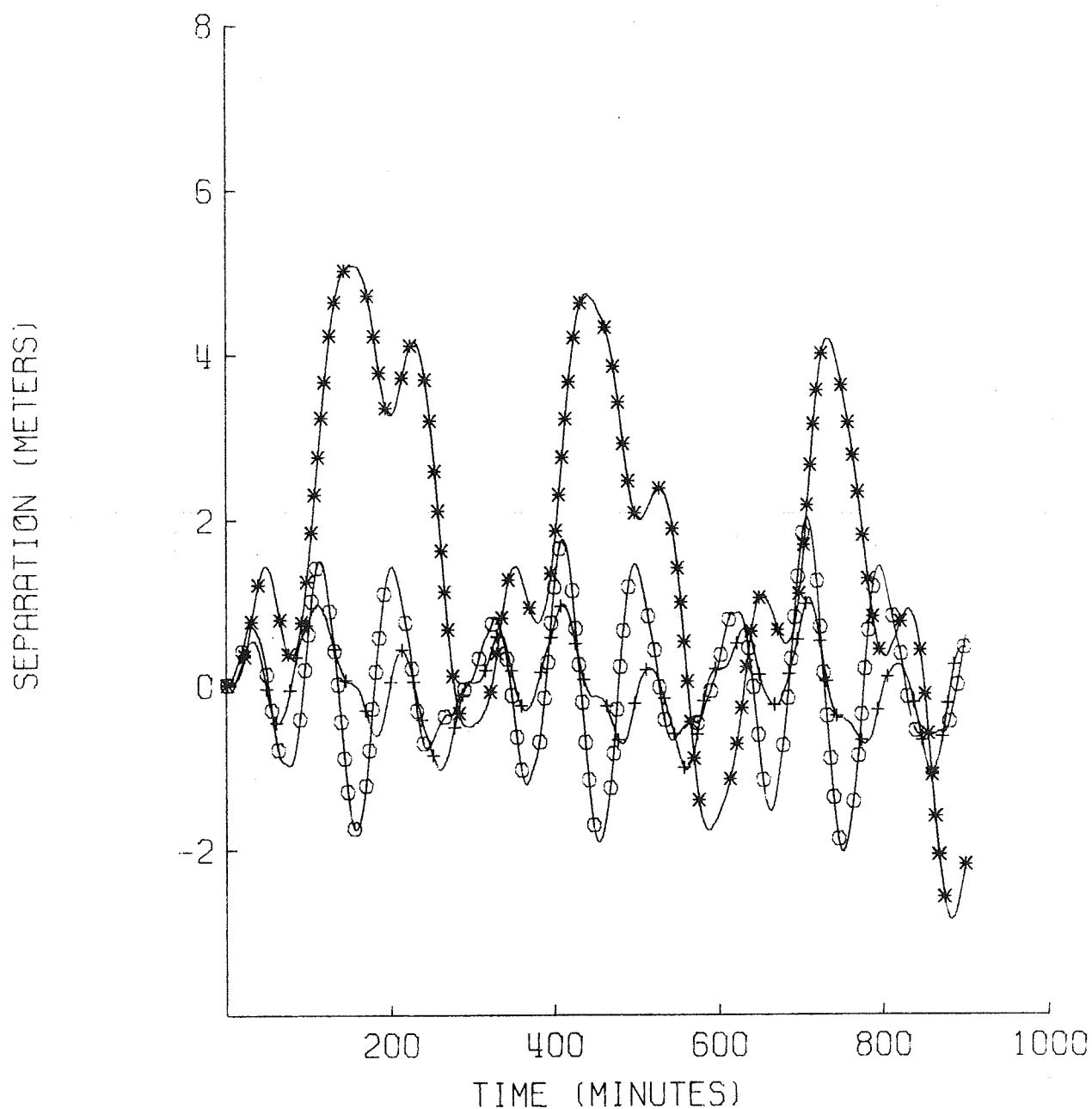
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(10,5) = -.0540
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

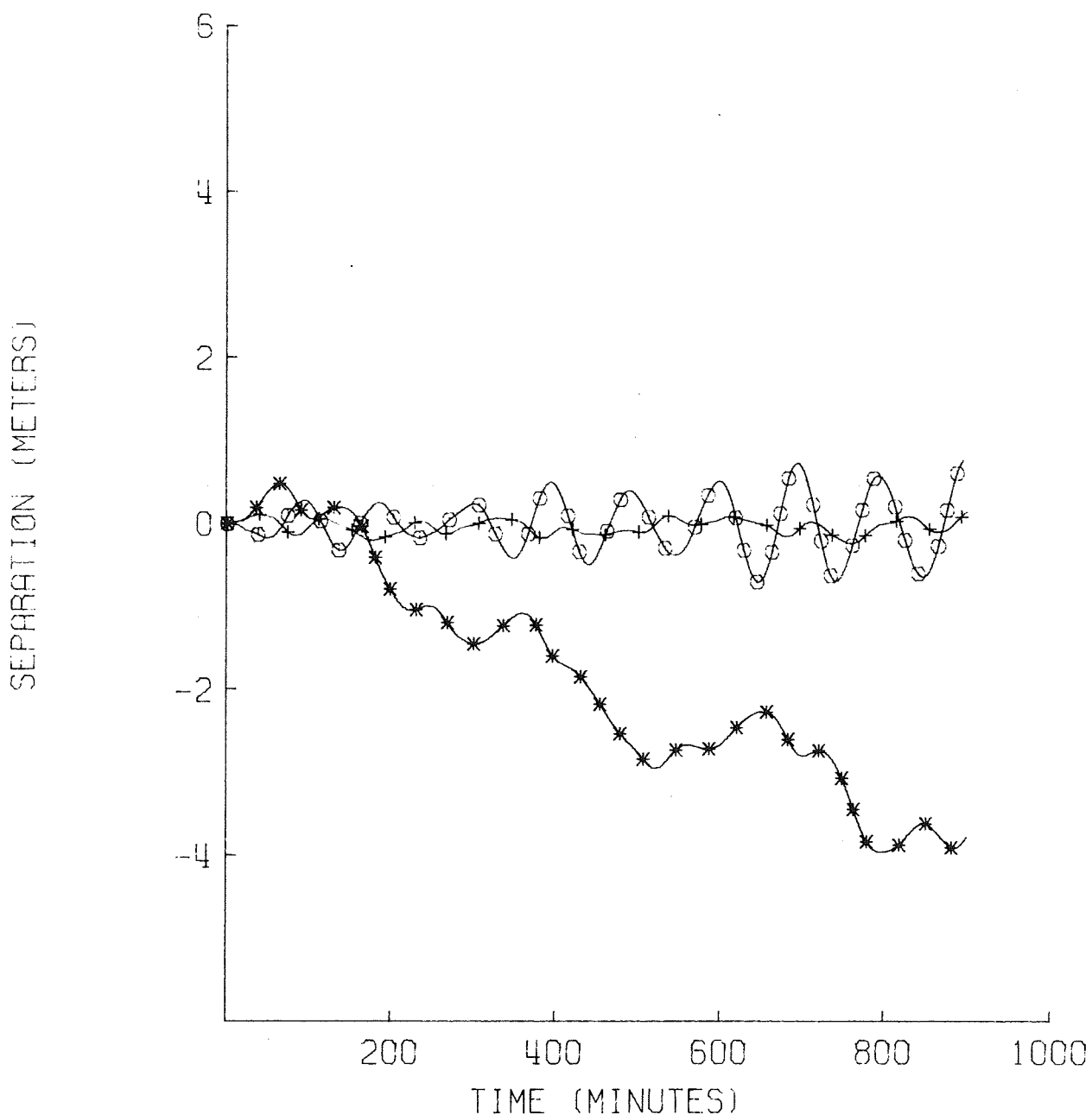
RUN FOR S(10,5) = -.0083

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

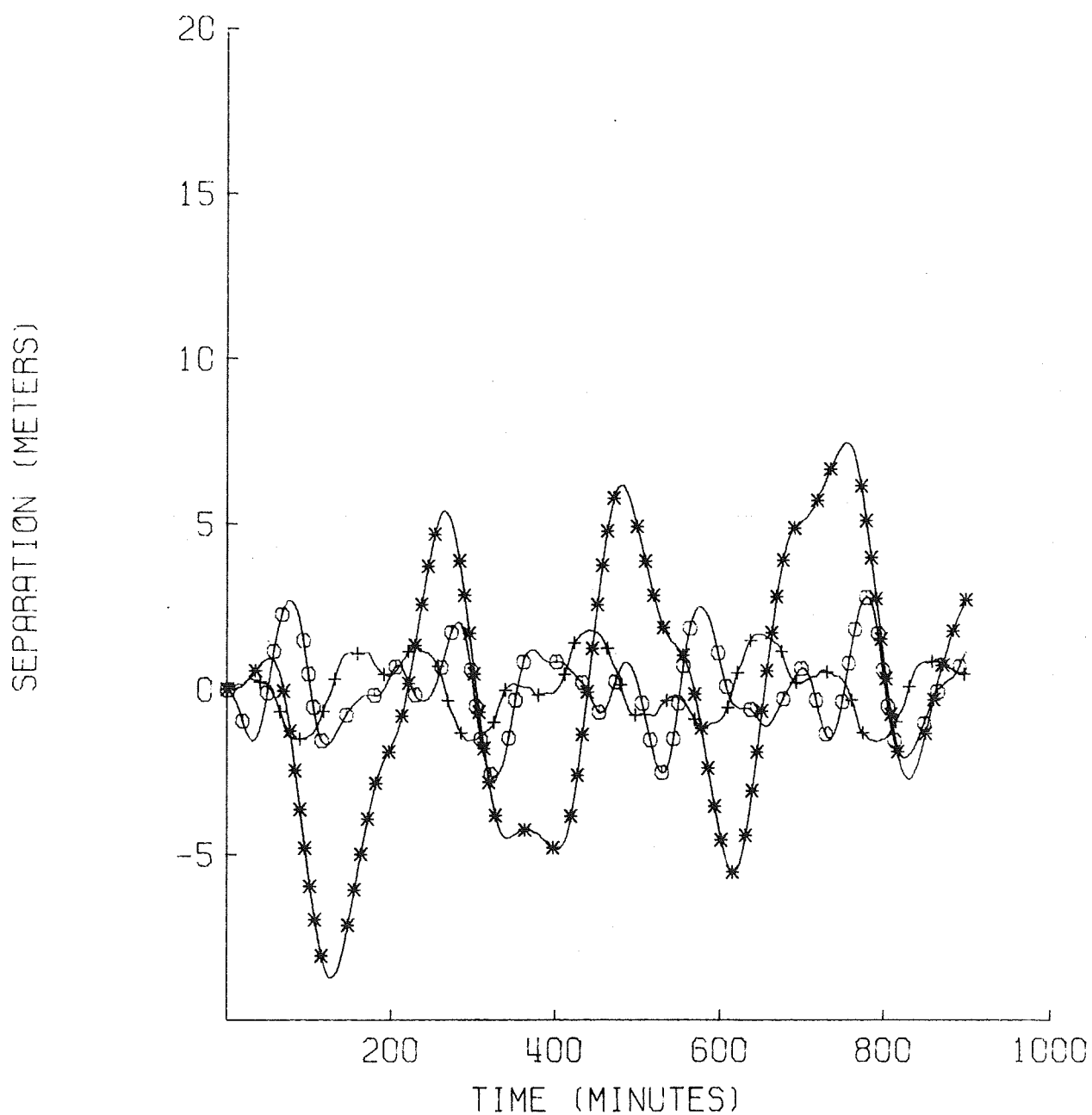
RUN FOR C(10,6) = -.0765

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

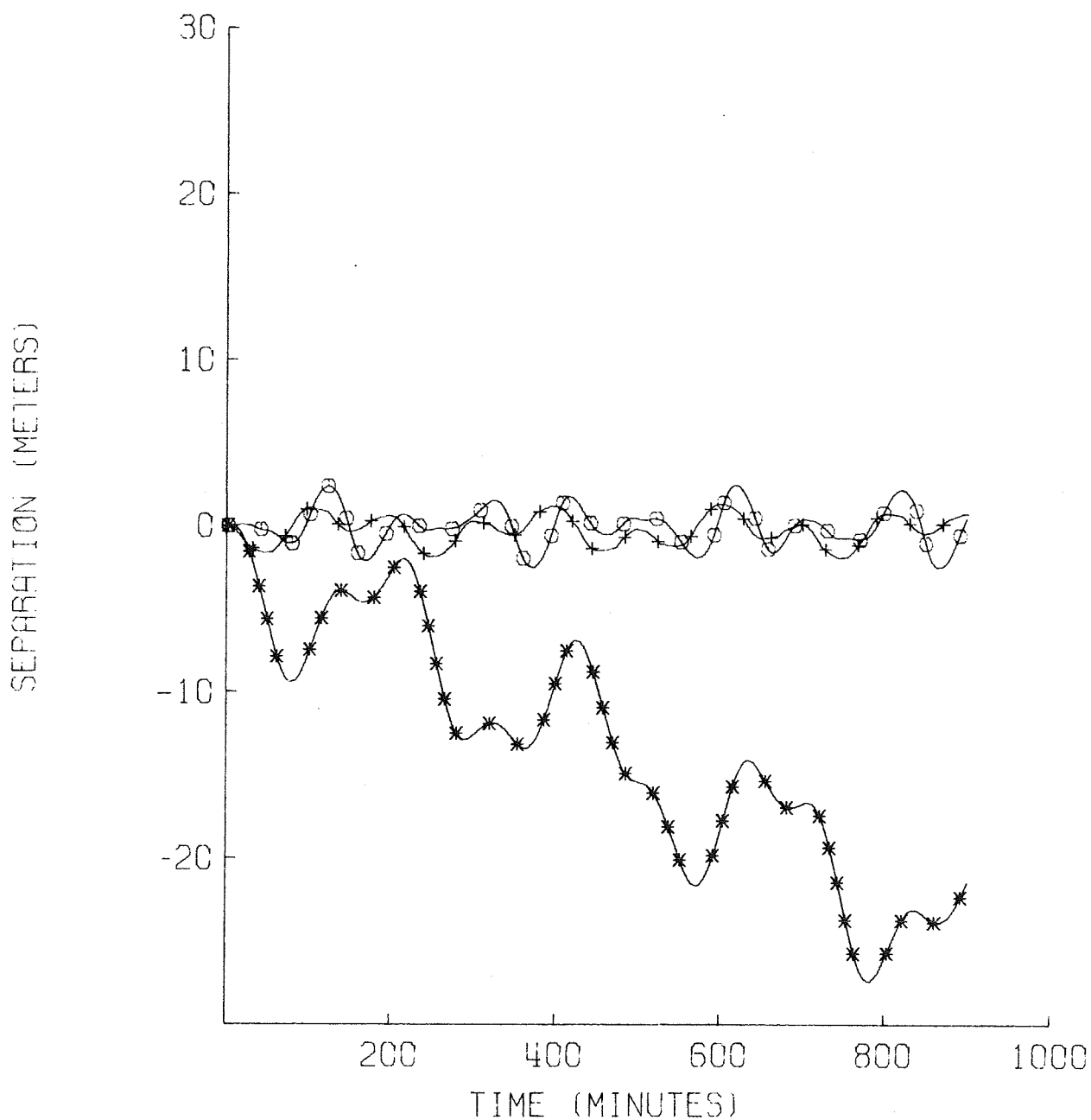
RUN FOR S(10,6) = -.0576

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

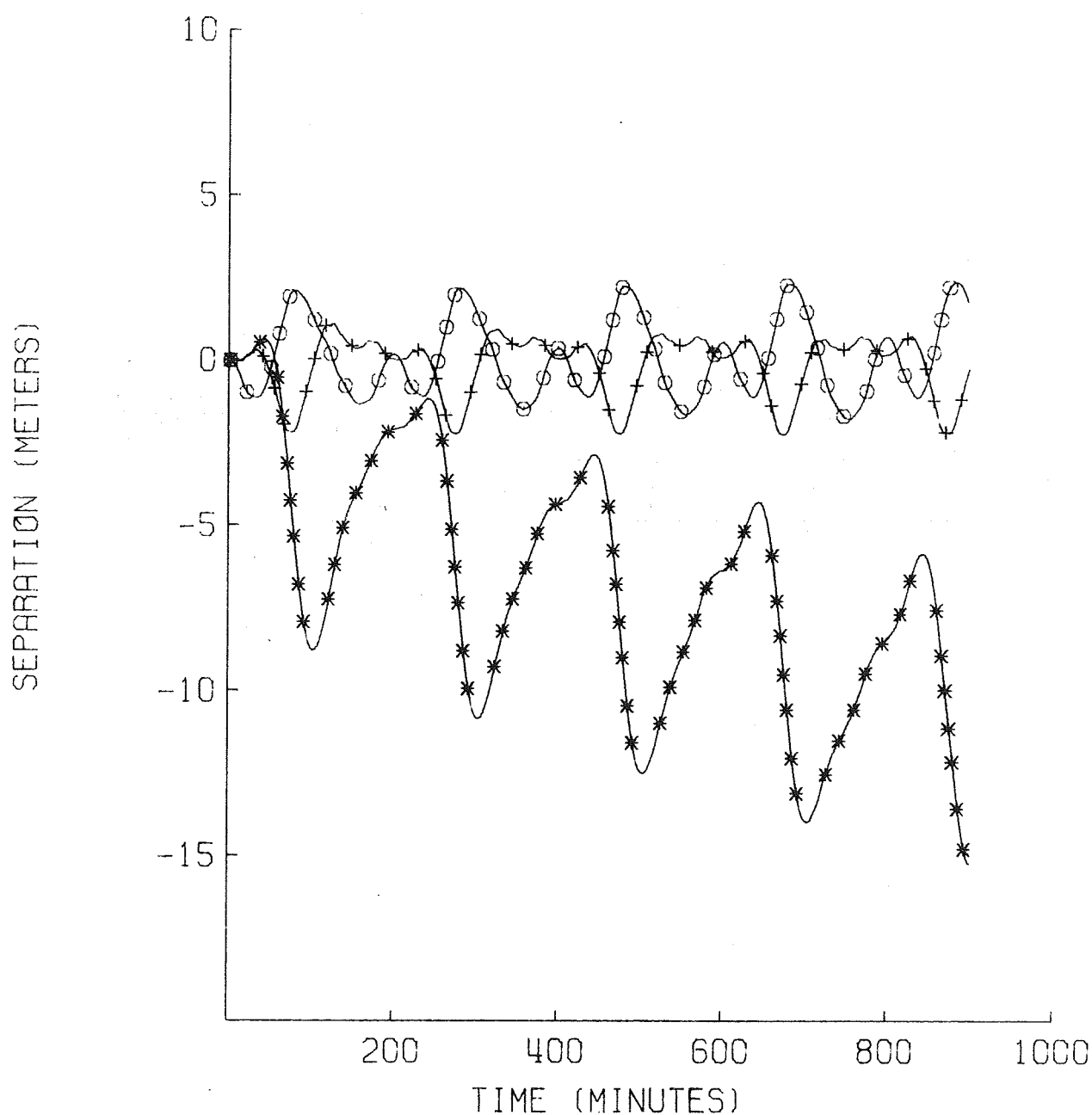
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(10,7) = .0687
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

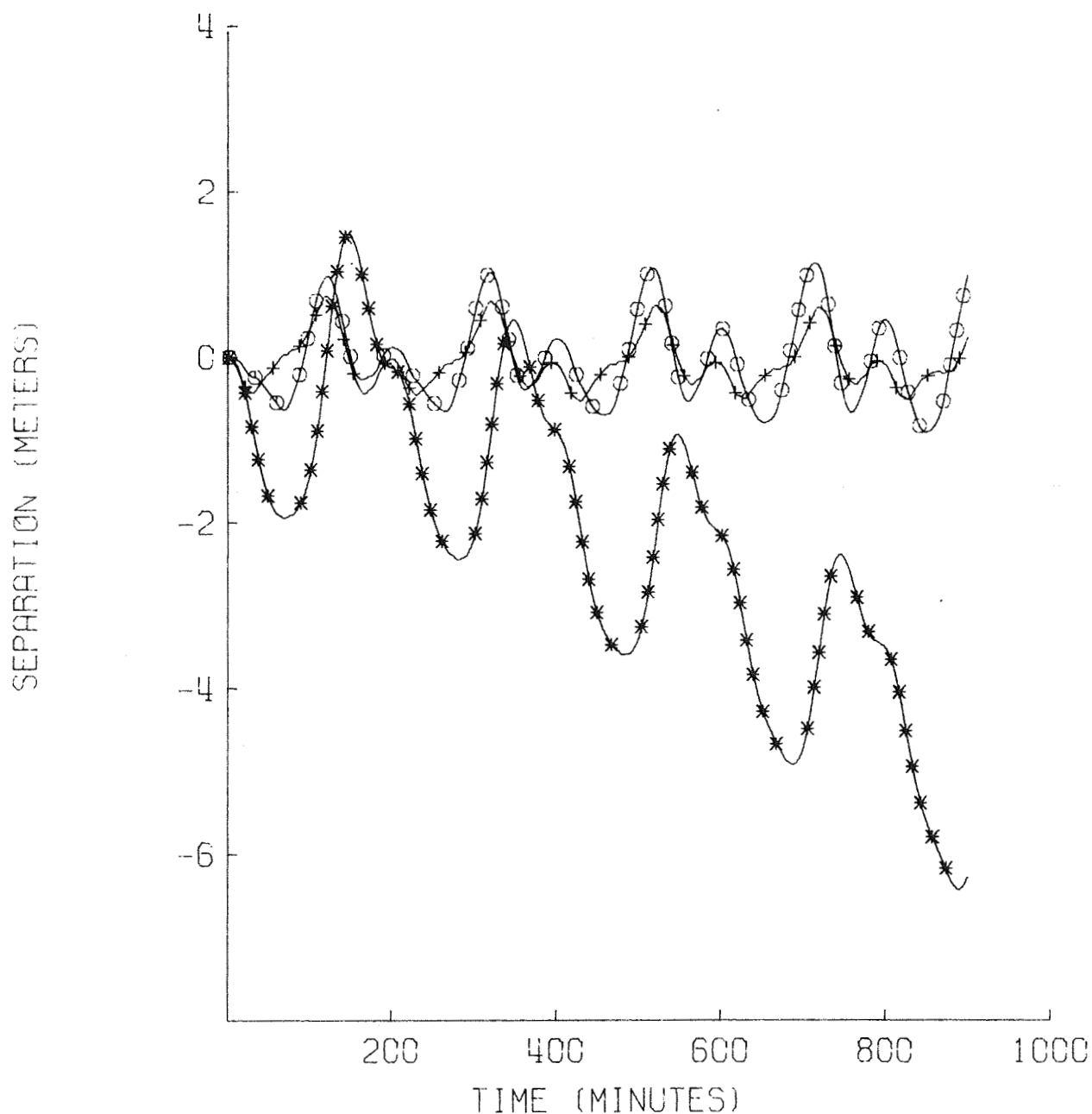
RUN FOR S(10 , 7) = .0264

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

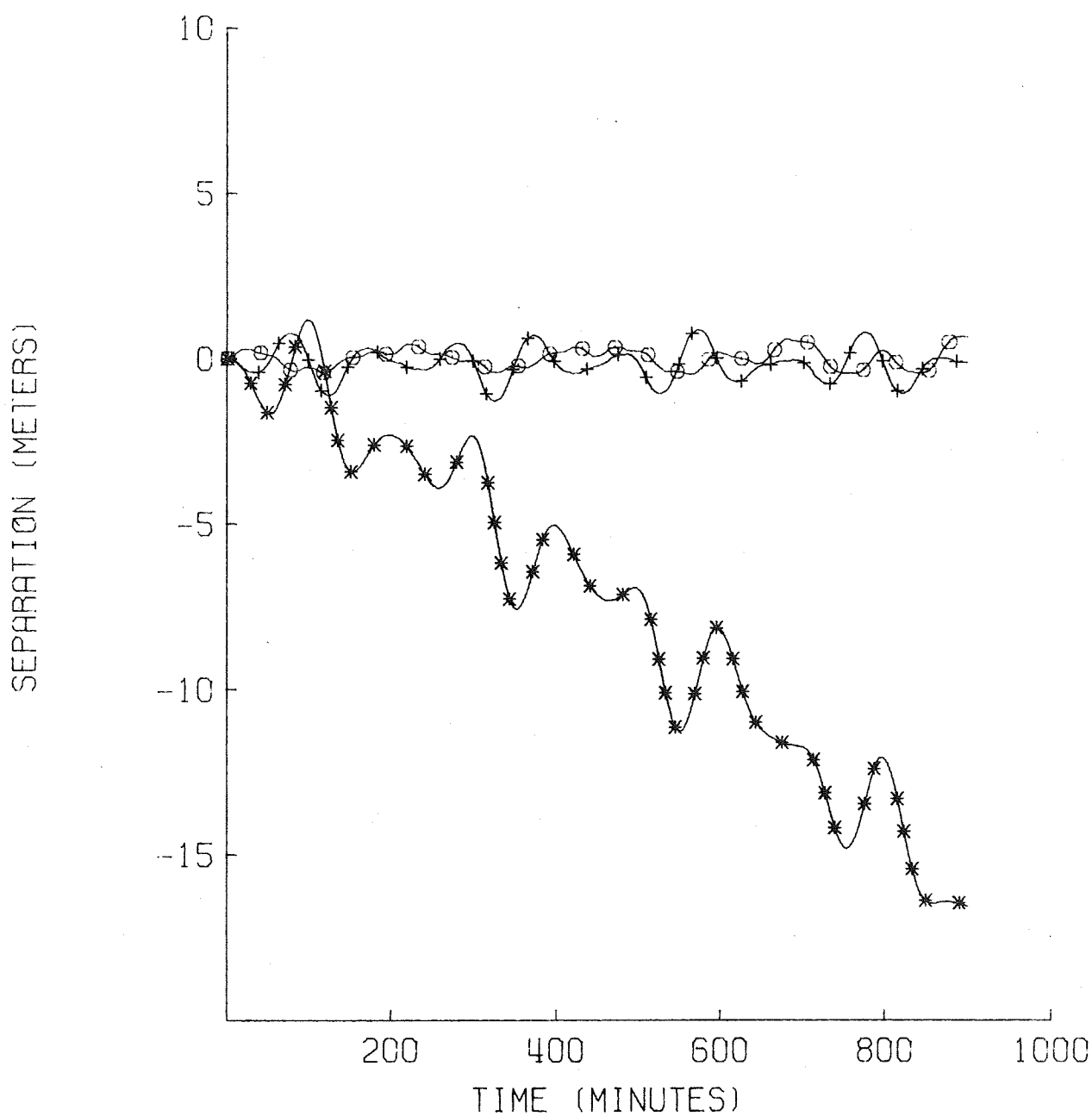
RUN FOR C(10,8) = .0278

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

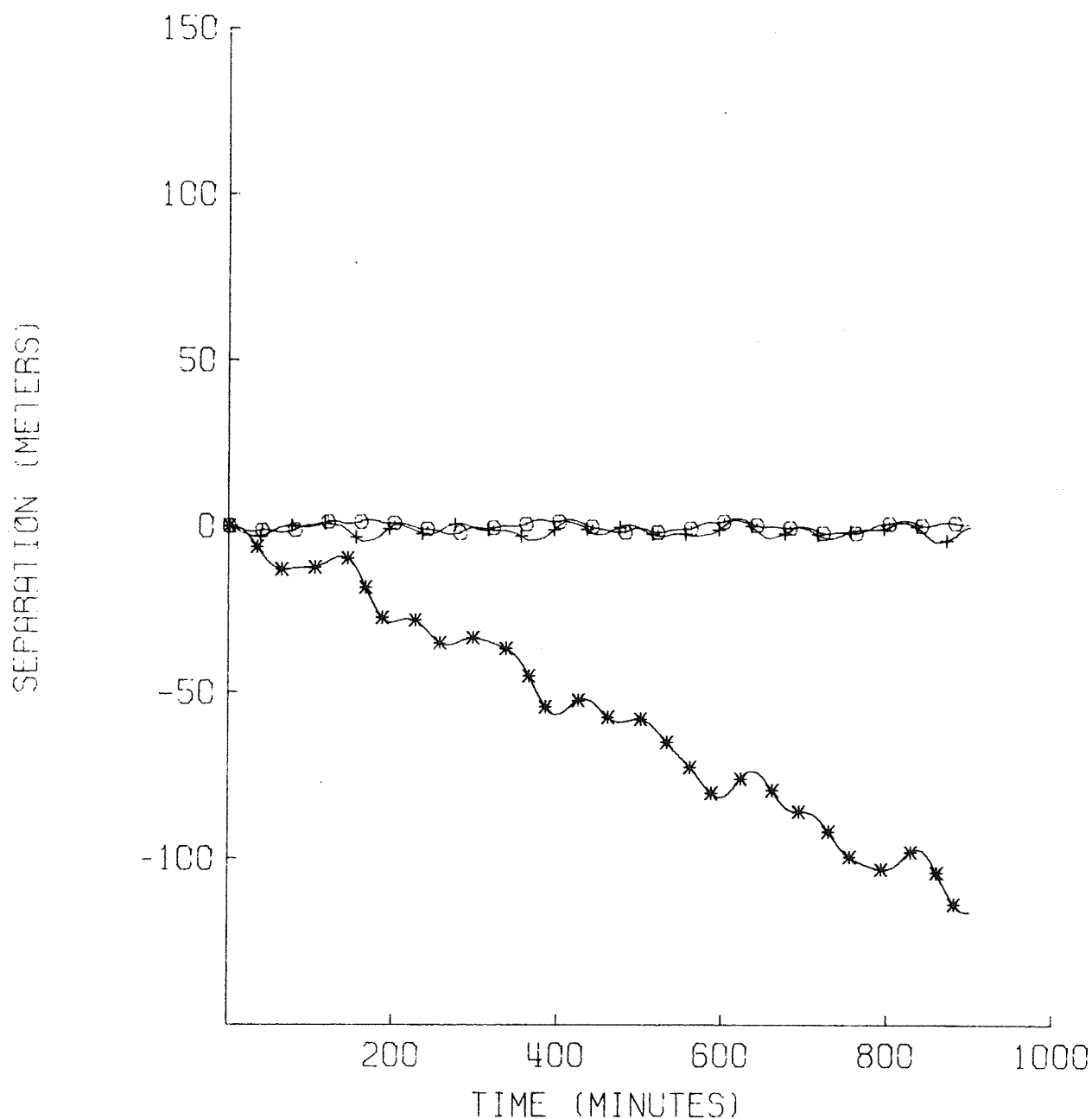
RUN FOR S(10,8) = -.1435

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

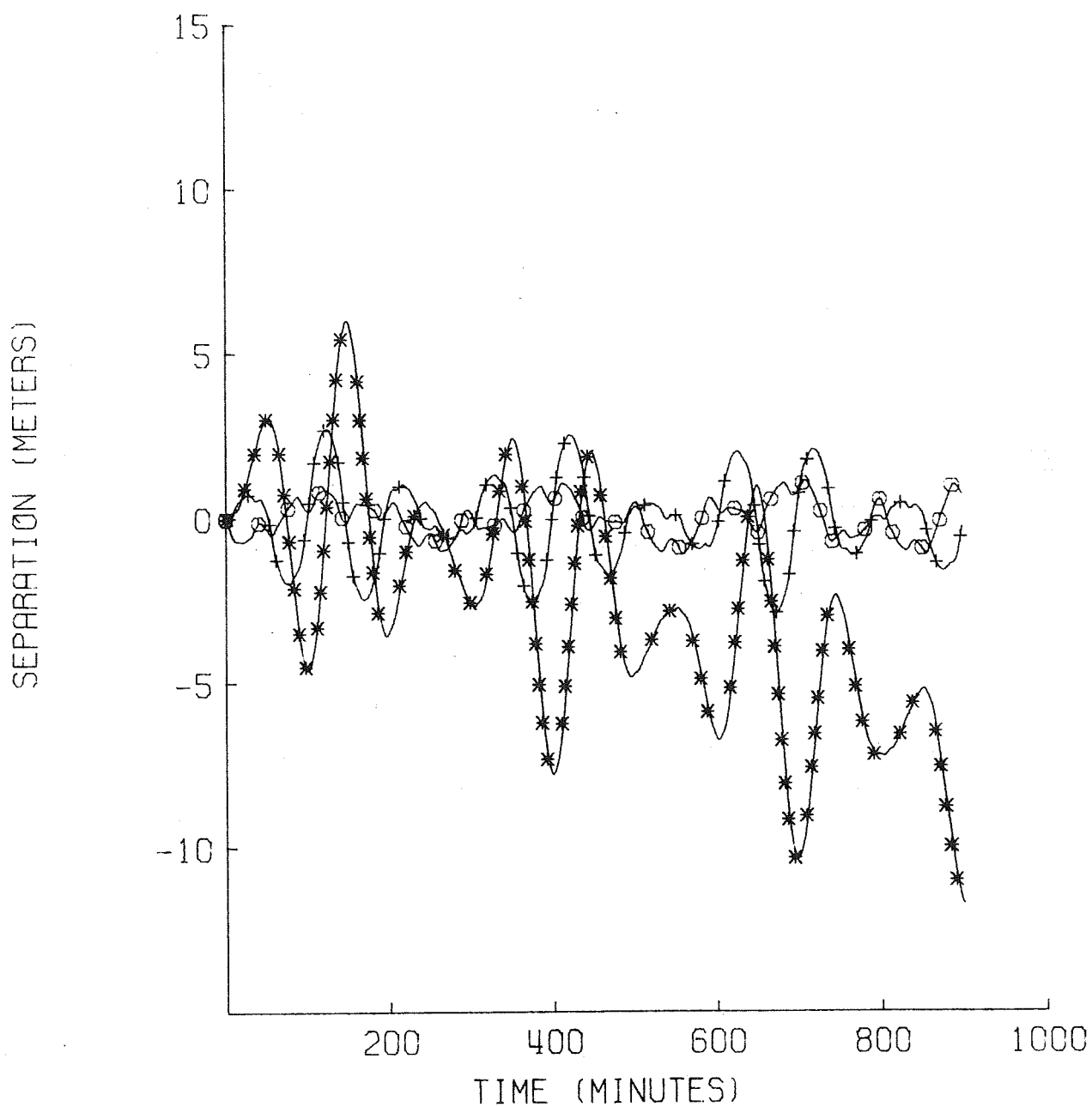
RUN FOR C(10,9) = .1182

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7135.5535

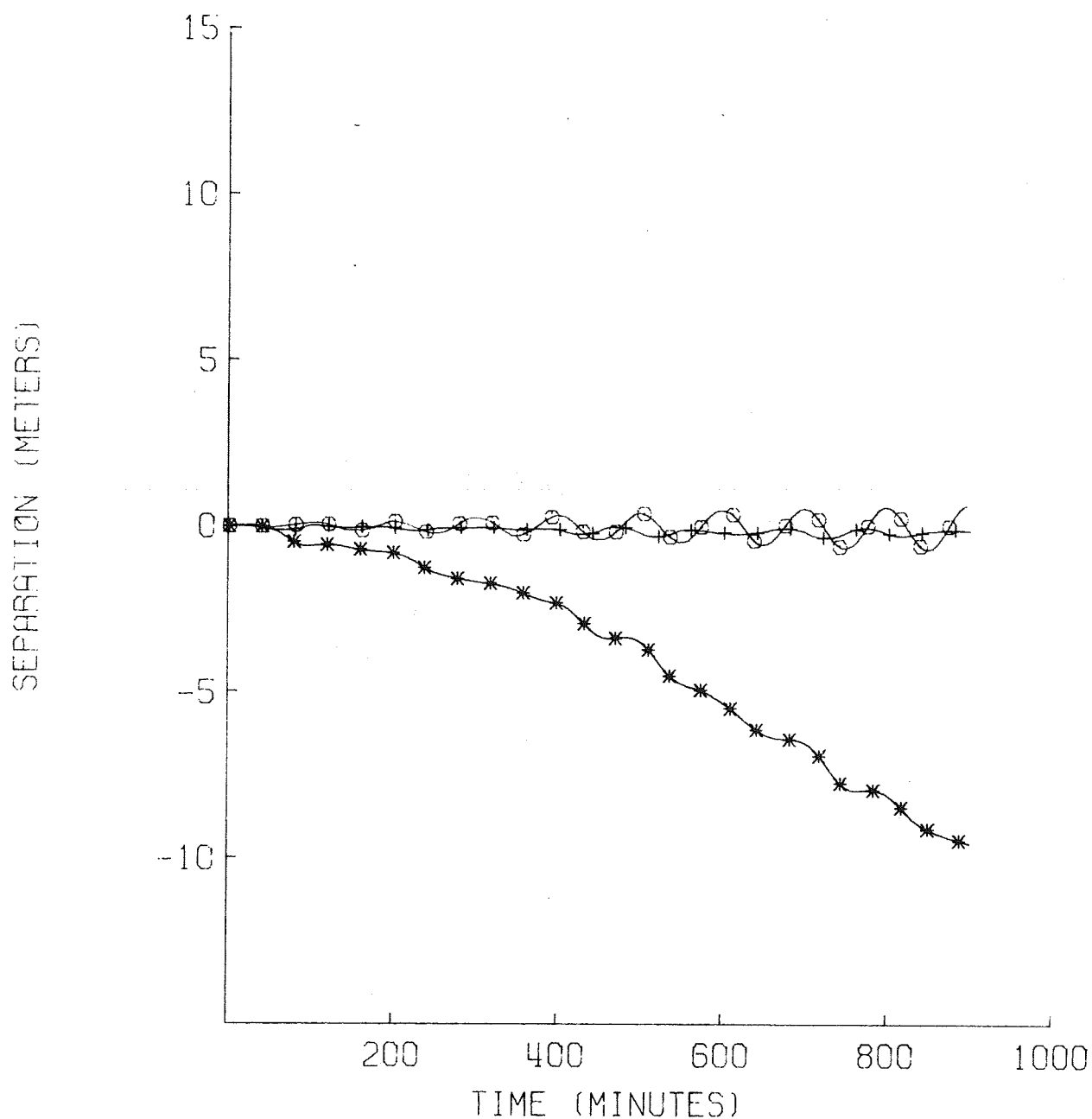
RUN FOR S(10,9) = -.0051

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

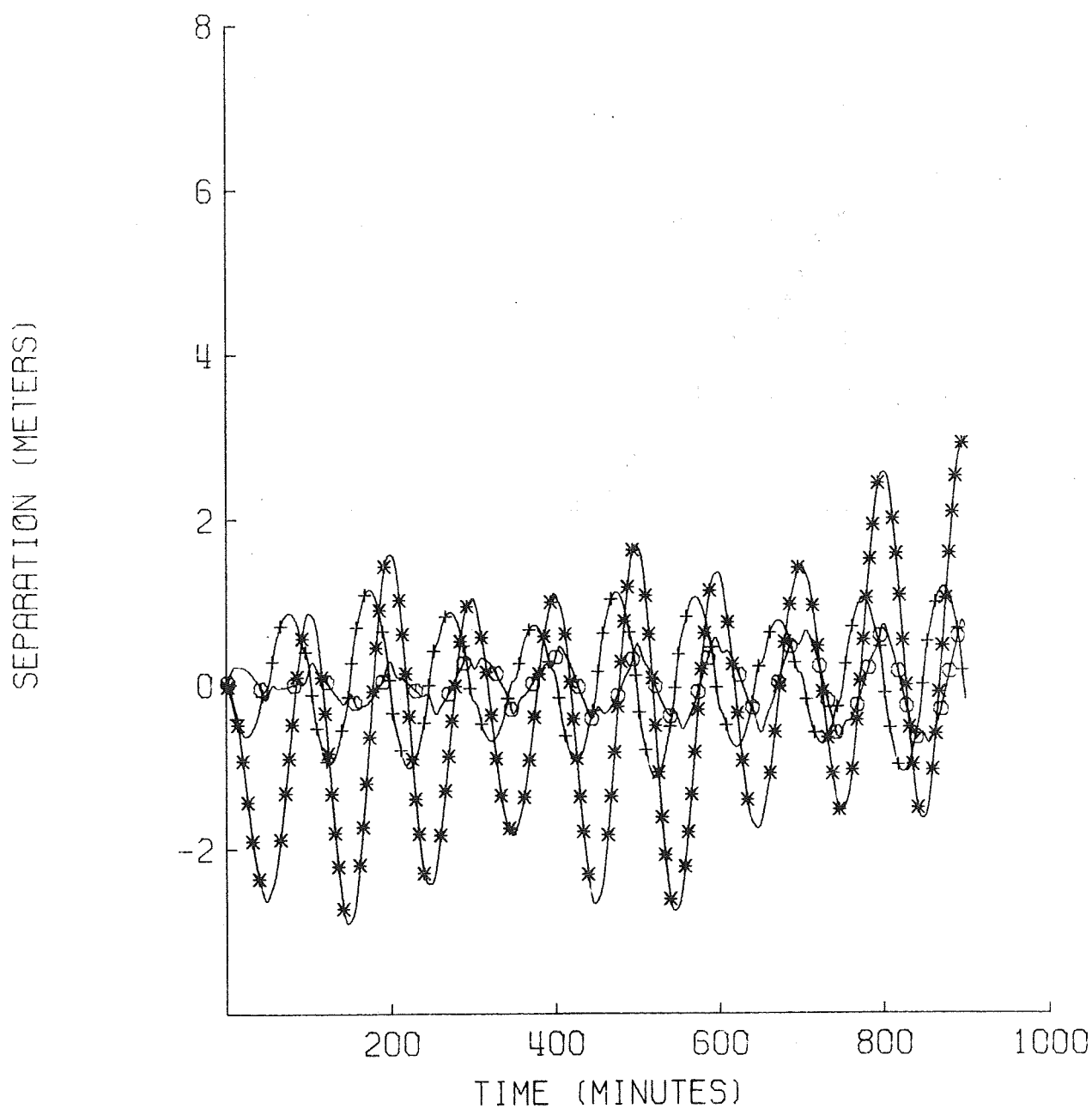
RUN FOR C(10,10) = .0653

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

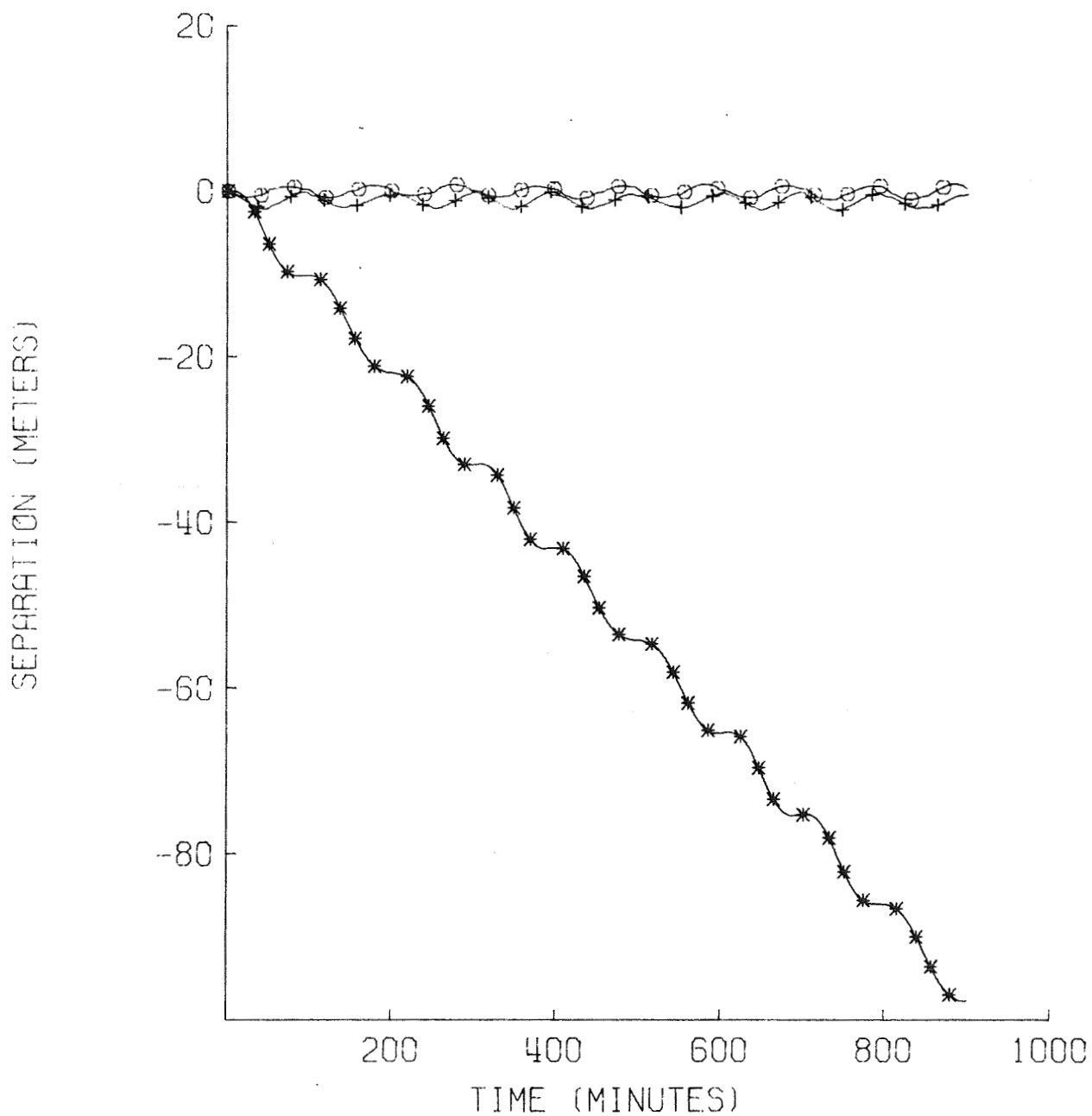
RUN FOR S(10,10) = -.0729

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

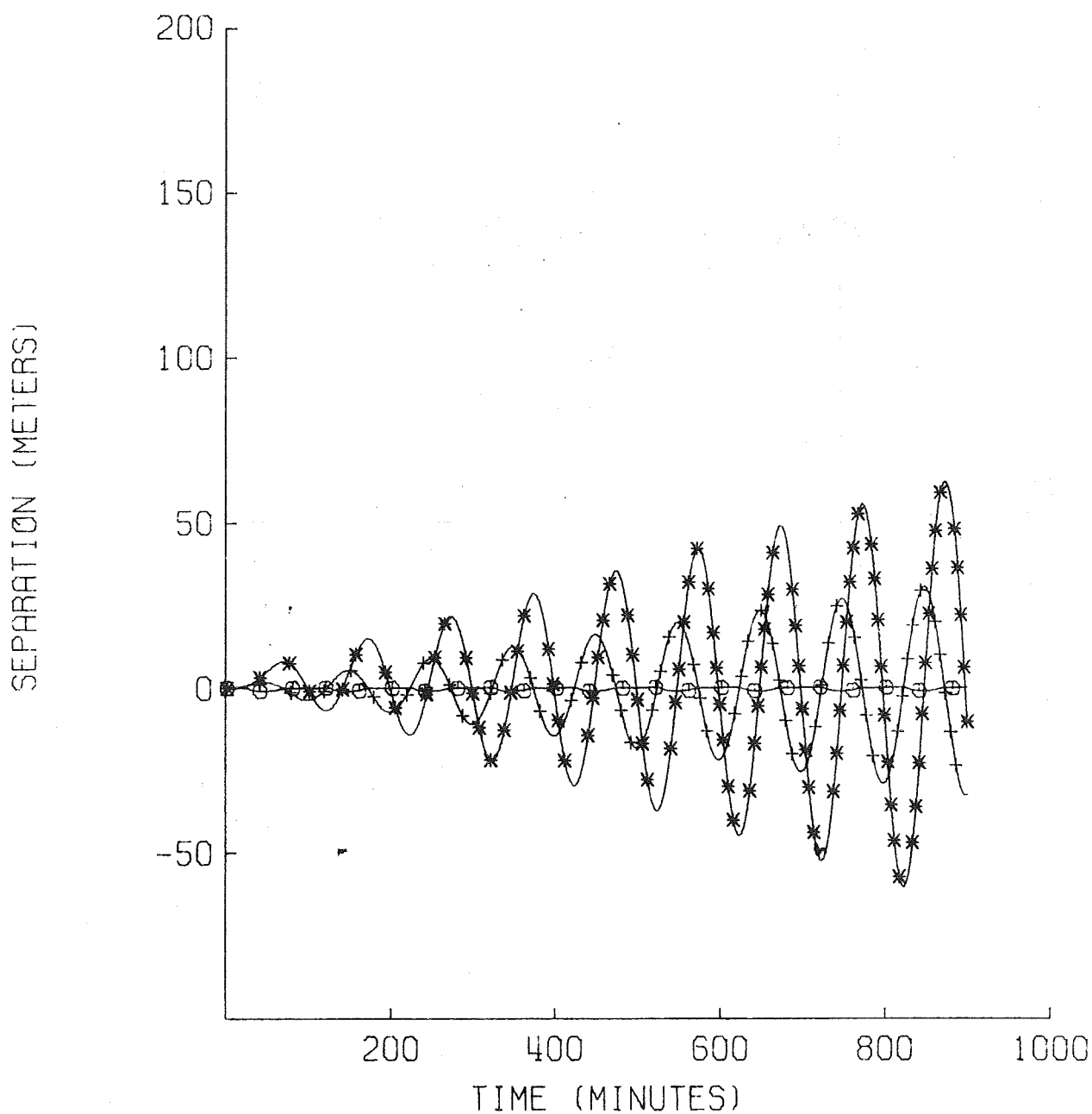
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C	OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7135.6535	

RUN FOR C(11,0) = -.0949
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

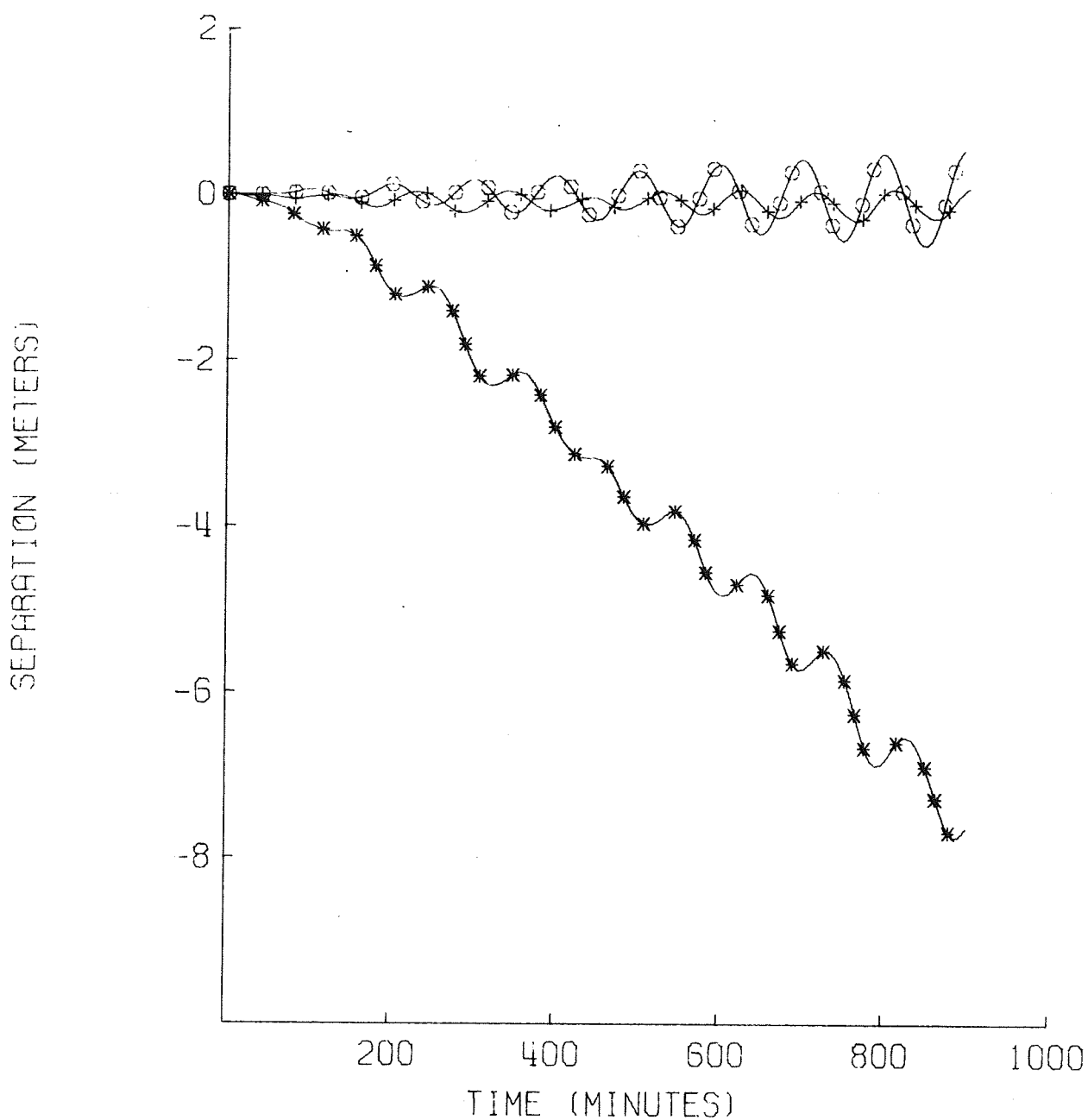
RUN FOR C(11,1) = .0042

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

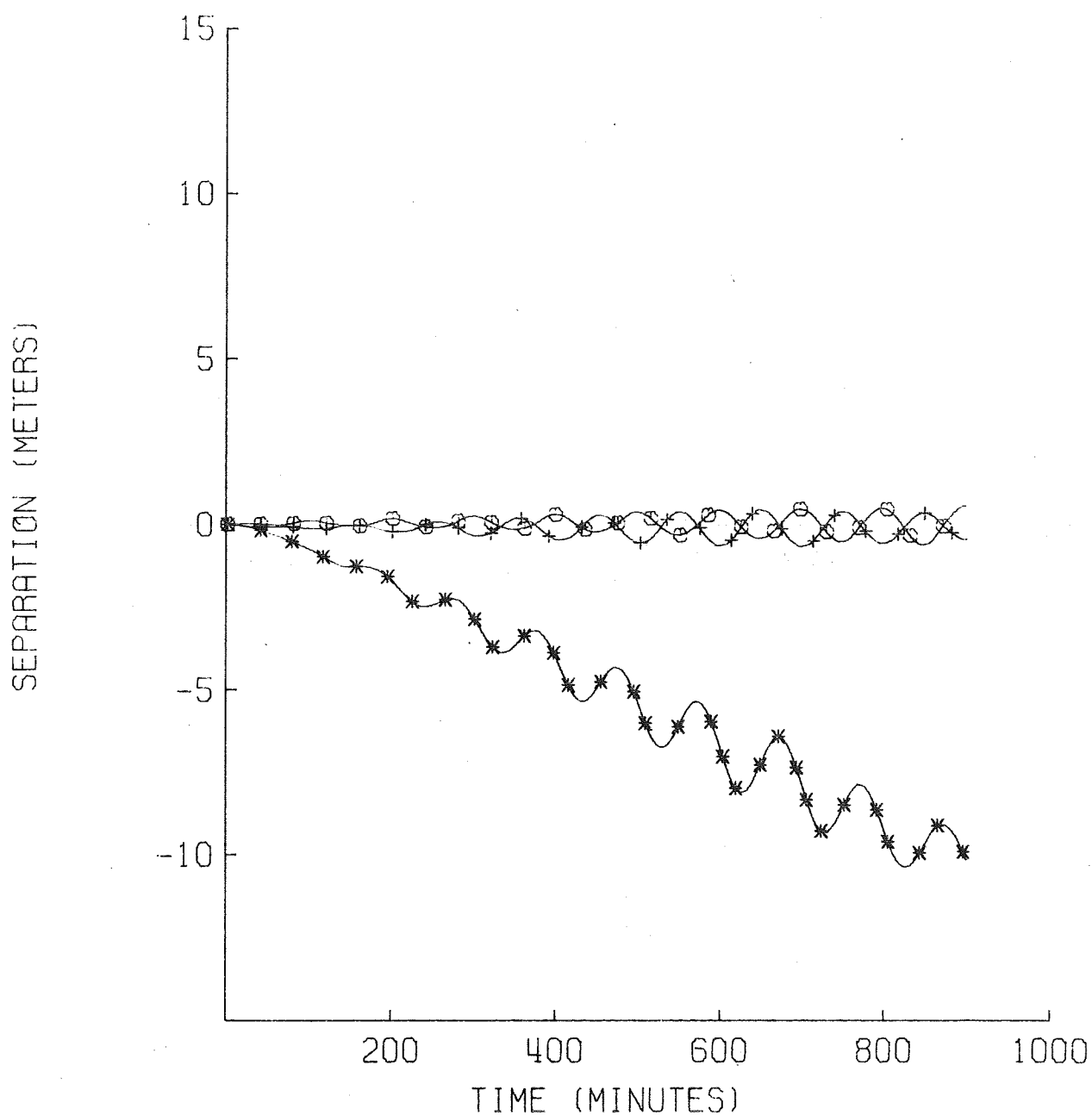
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7135.6535

RUN FOR S(11,1) = -.0121
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

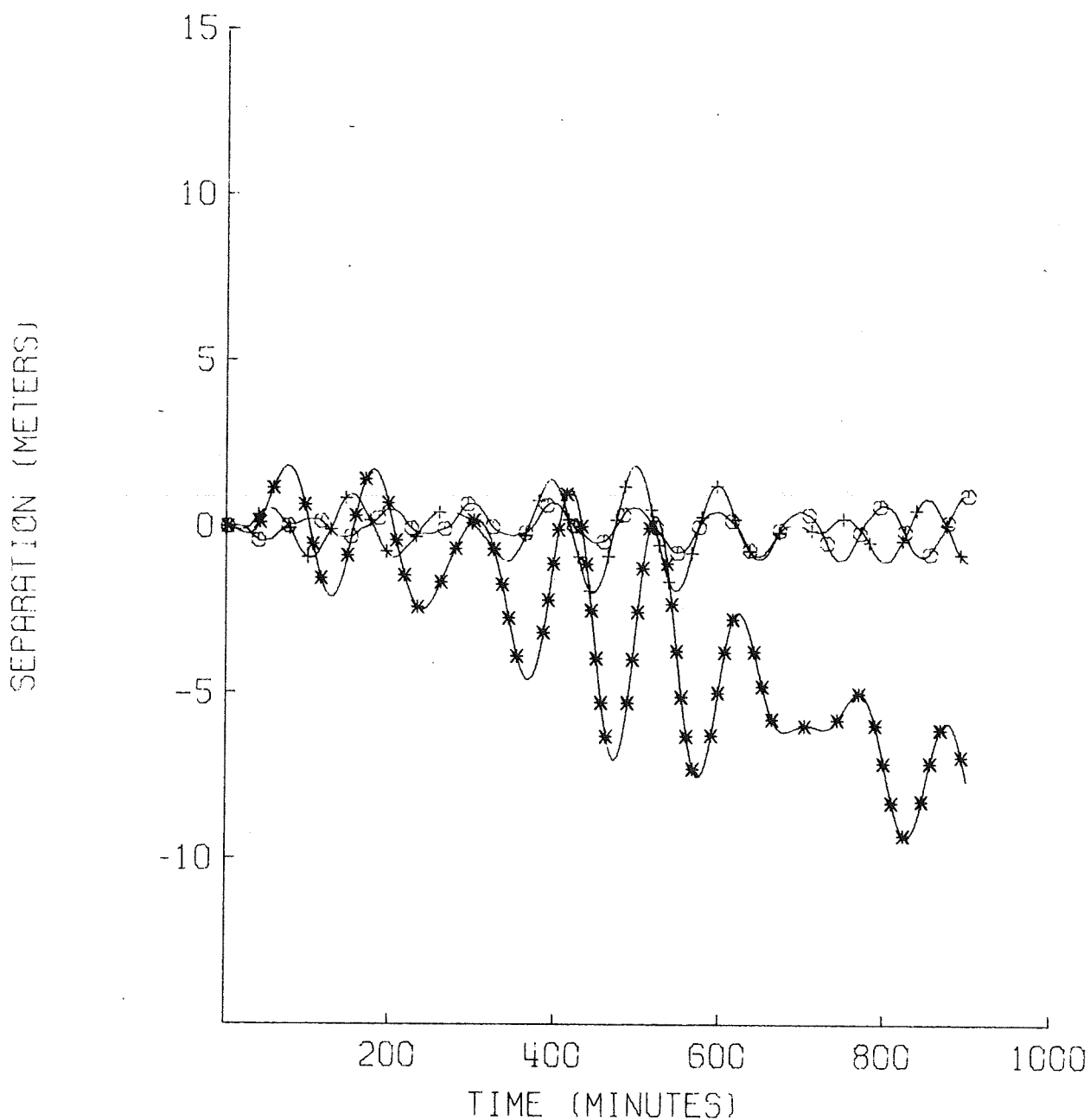
RUN FOR C(11,2) = .0585

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

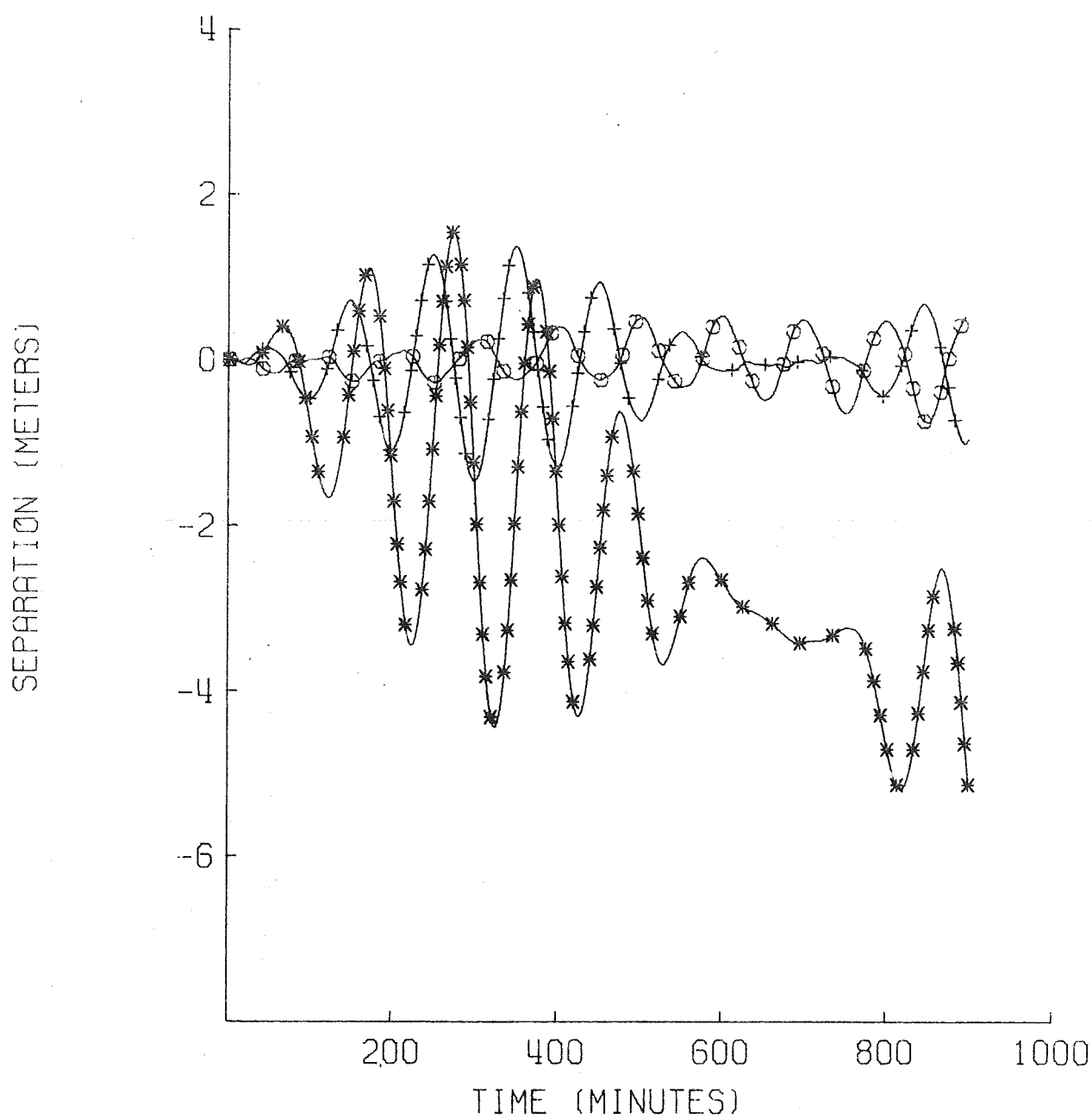
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(11,2) = -.0287
 FACTOR USED IS 1.000000

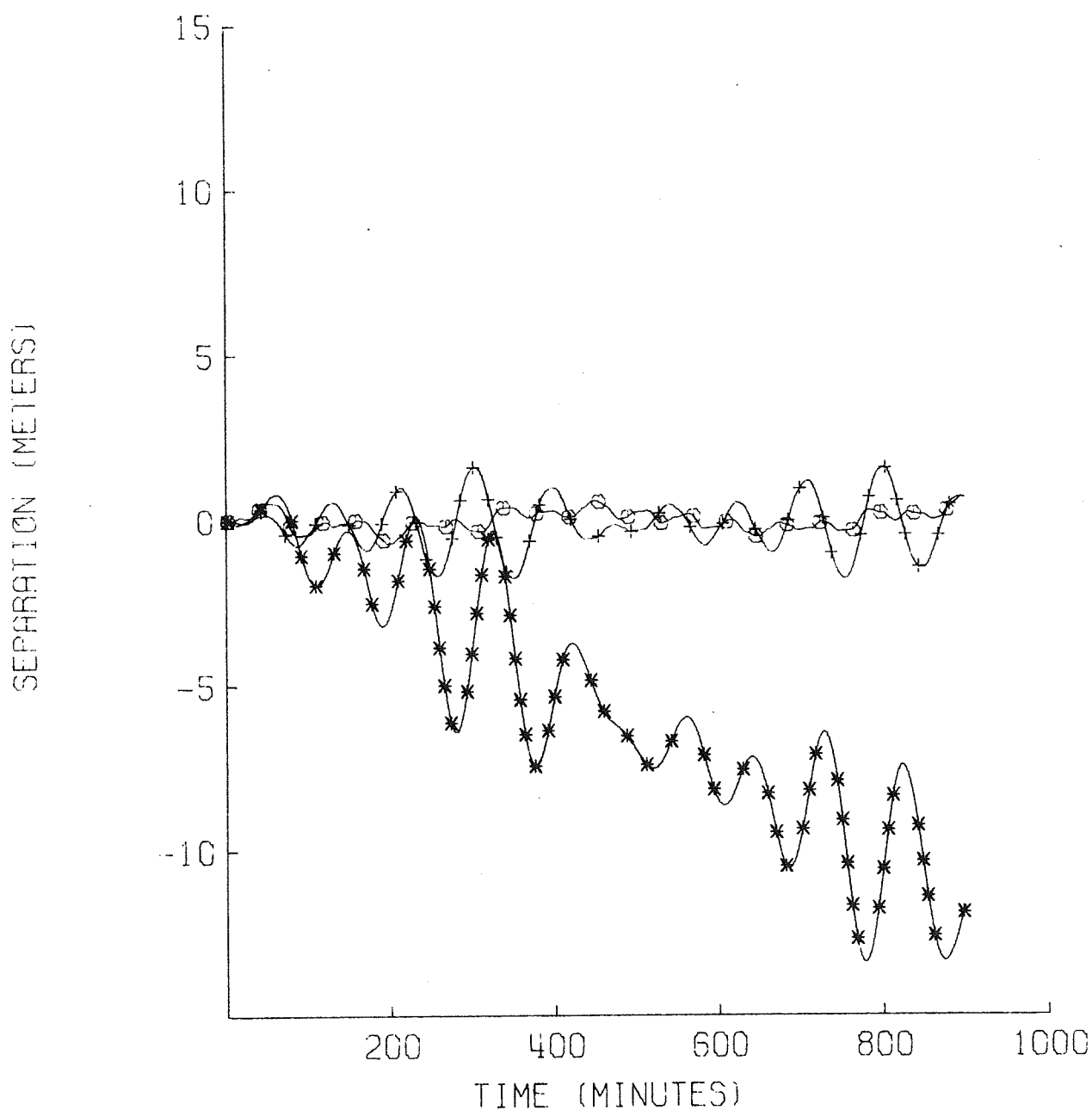
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7135.6535

RUN FOR C(11,3) = -.0655
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

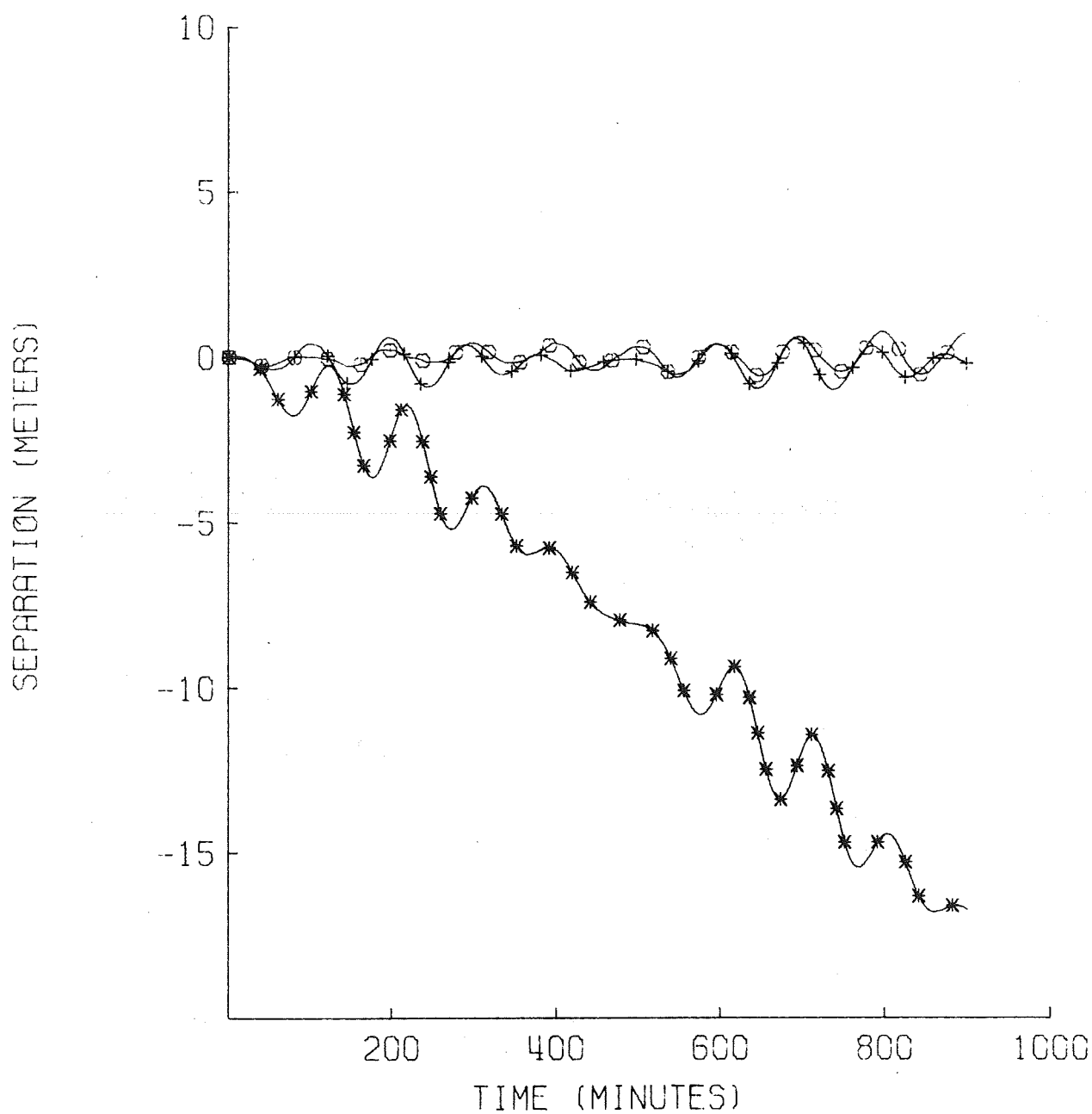
RUN FOR S(11,3) = -.0223

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

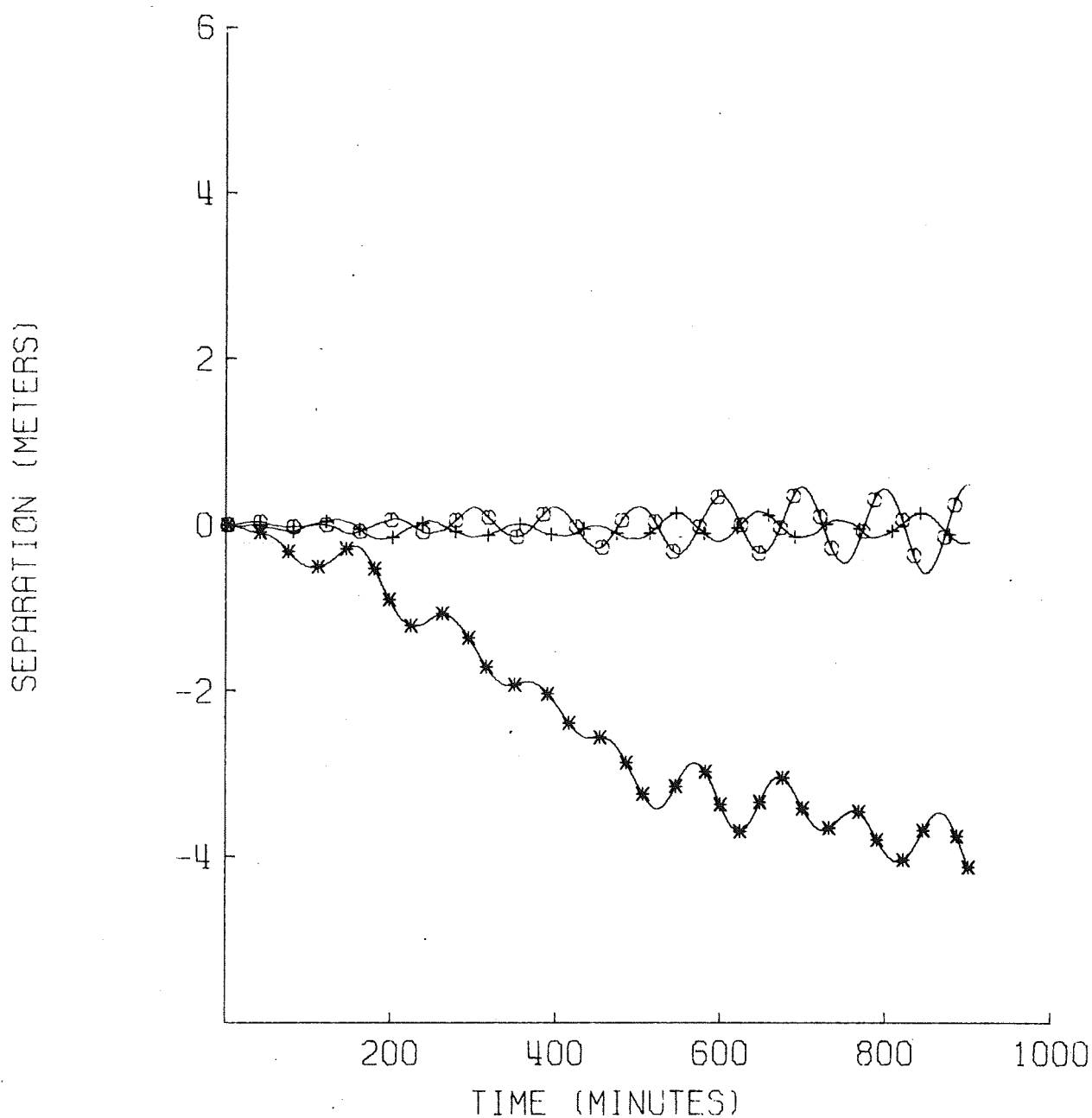
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(11,4) = .0057
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7135.6535

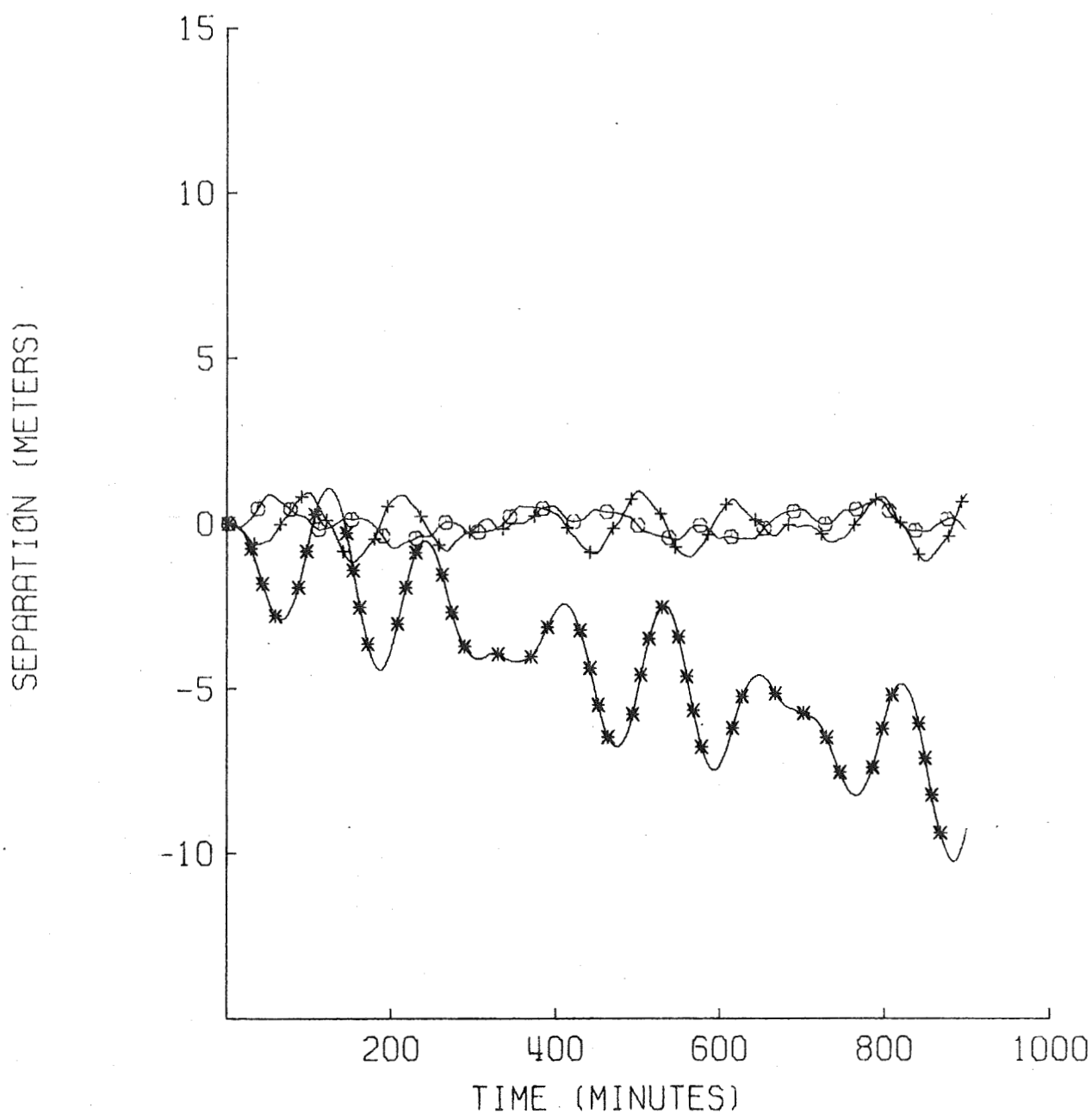
RUN FOR S(11,4) = -.0574

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

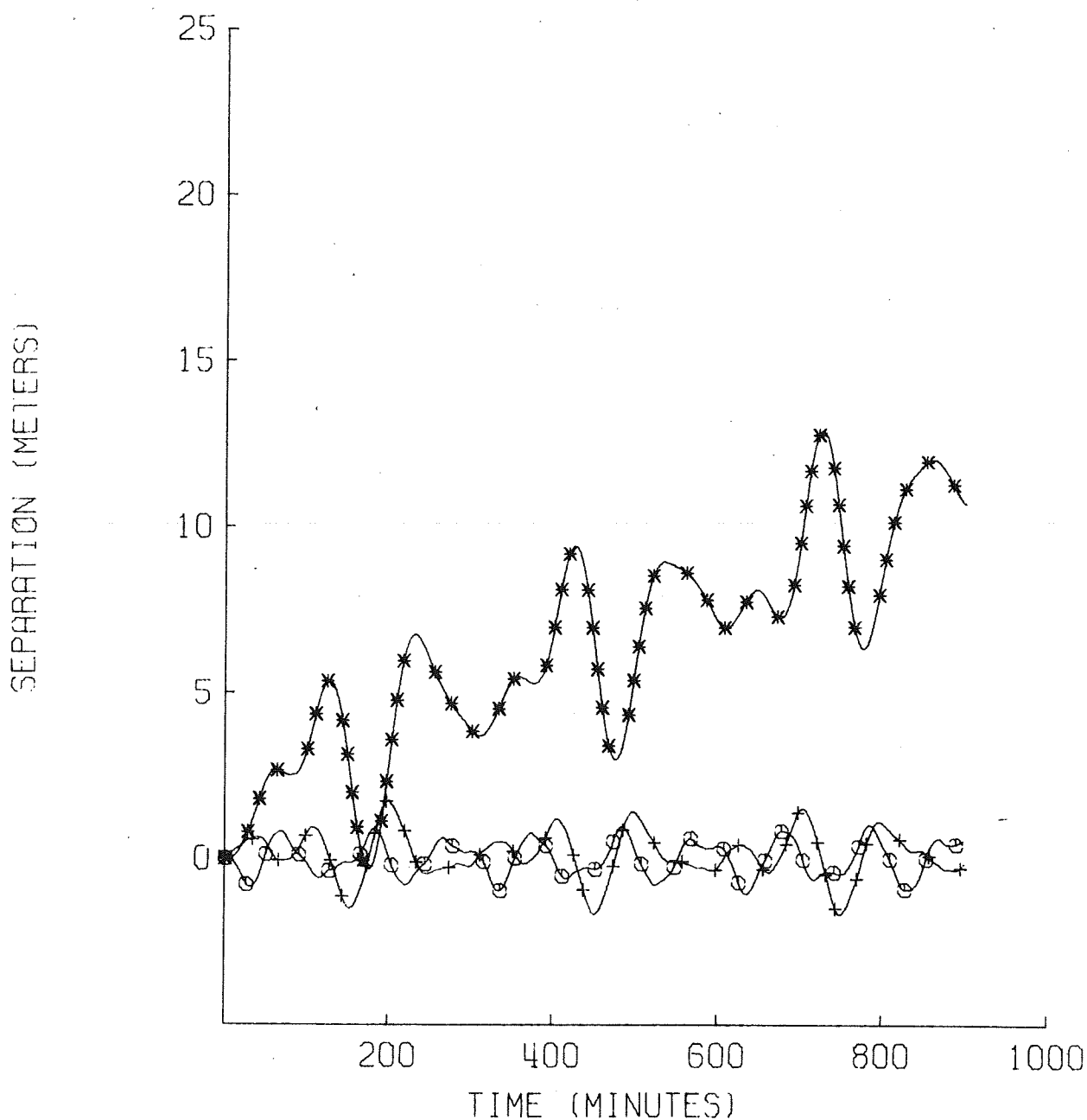
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(11,5) = .0647
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

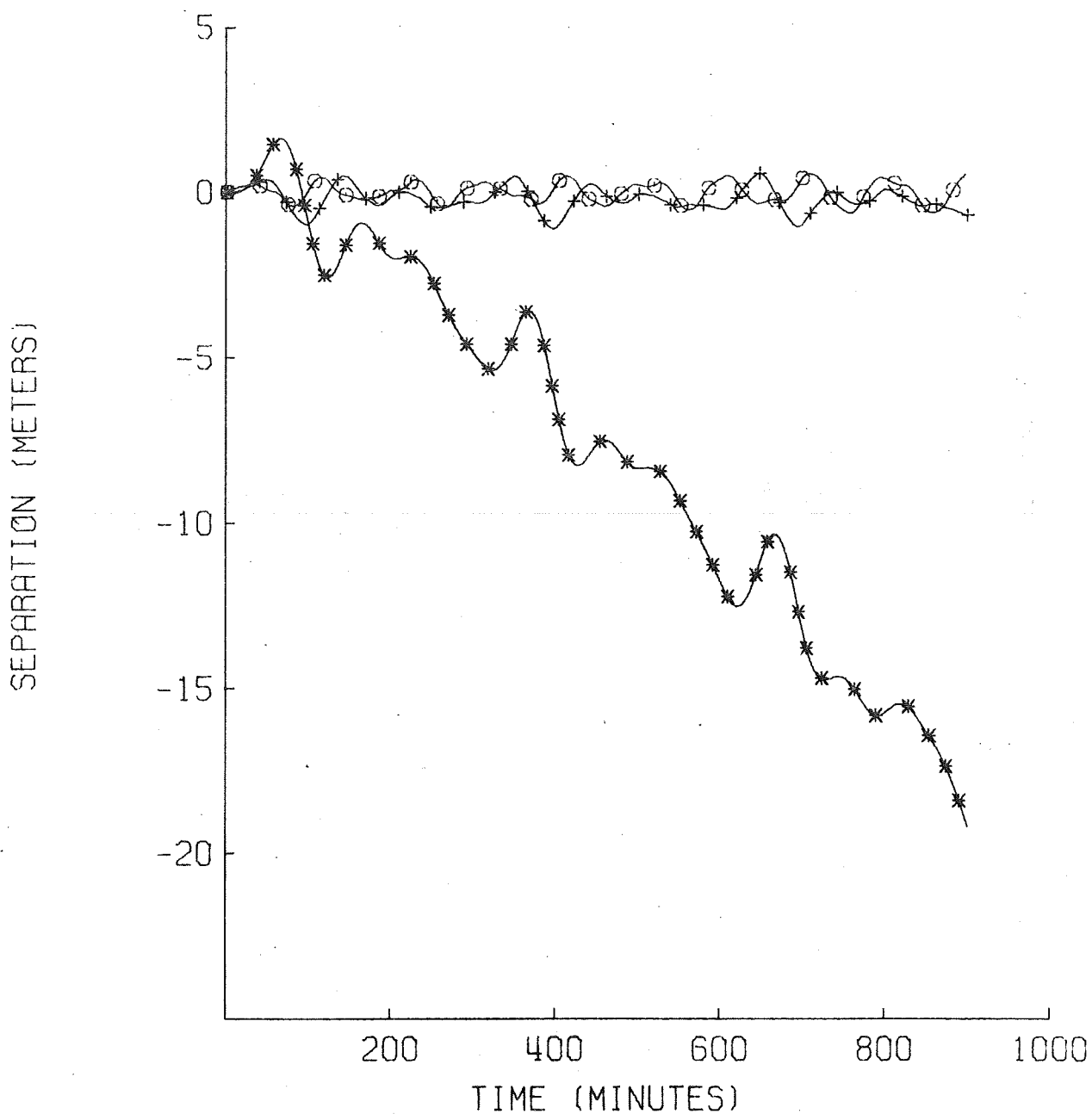
RUN FOR S(11,5) = -.0346

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

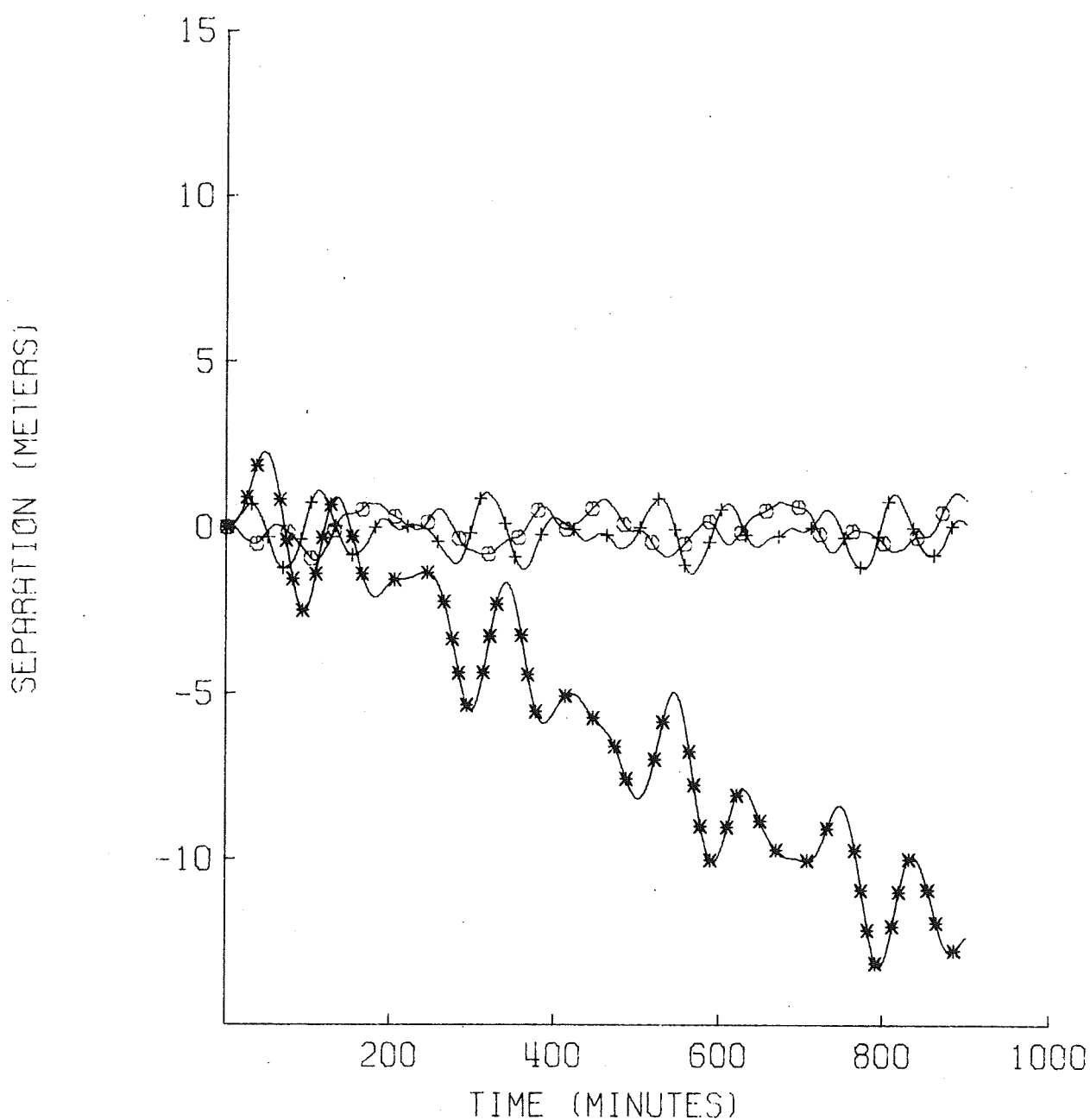
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(11,6) = -.0530
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

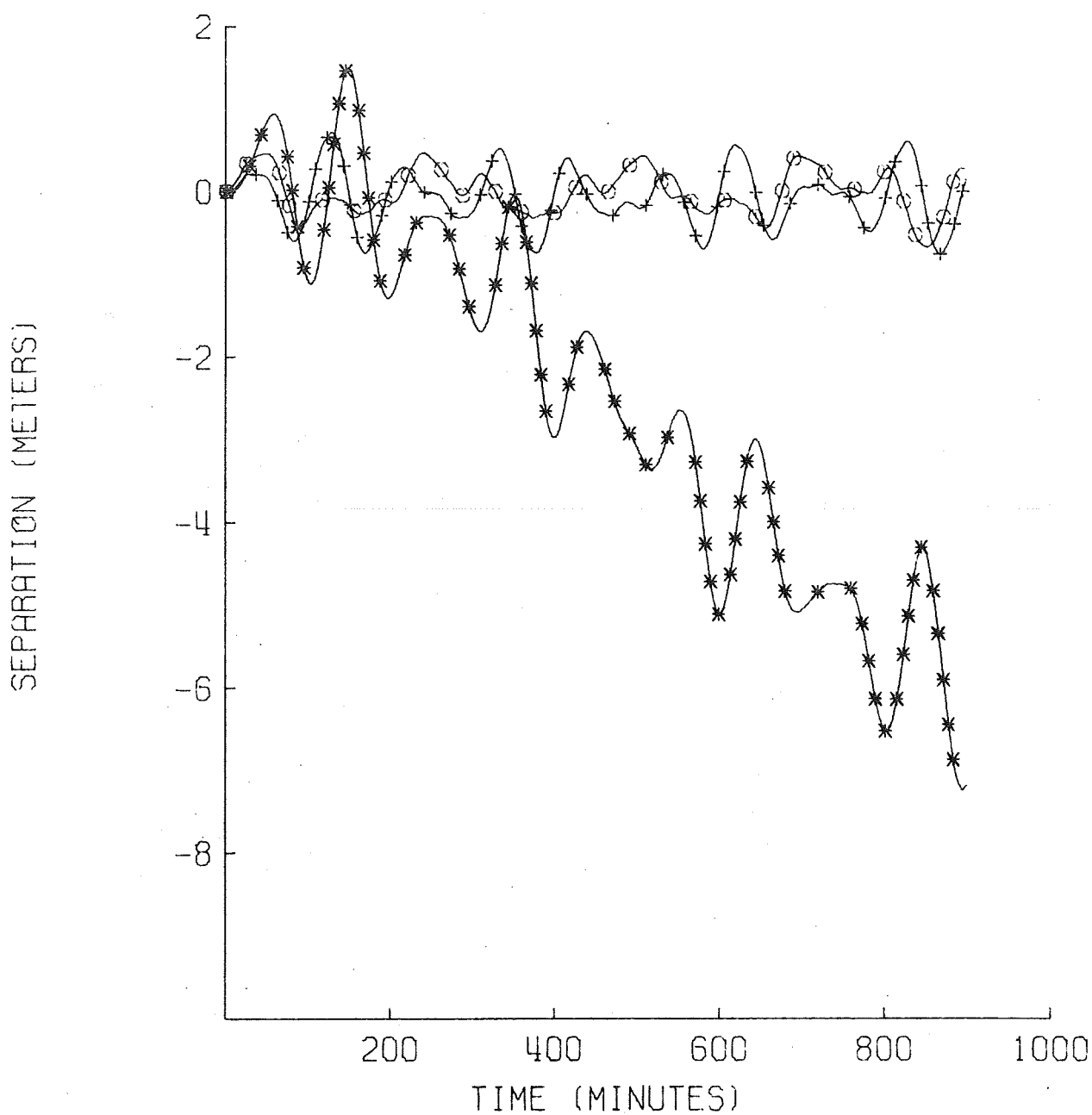
RUN FOR S(11.6) = .0262

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

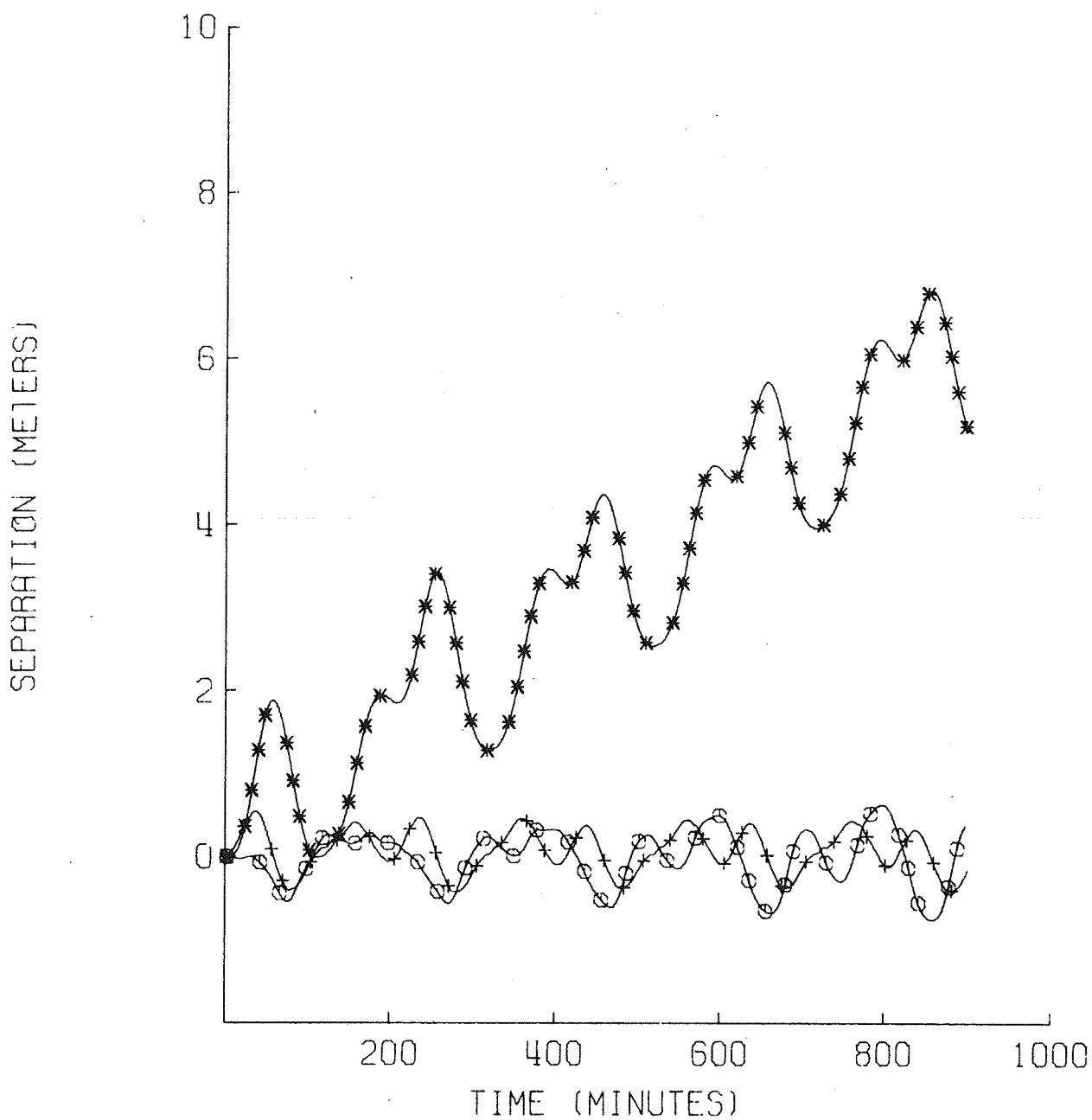
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(11,7) = .0218
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

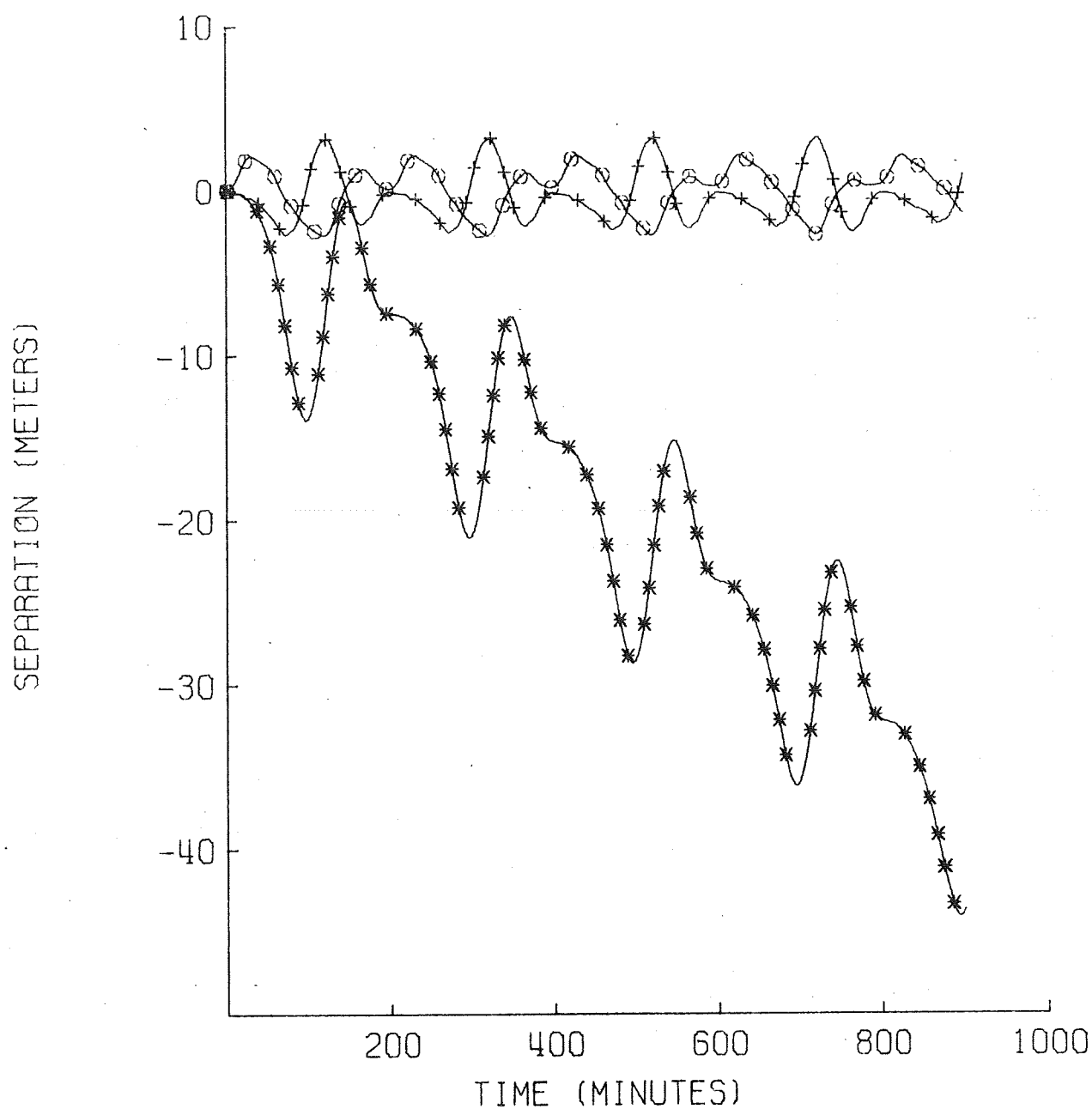
RUN FOR S(11,7) = -.1165

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

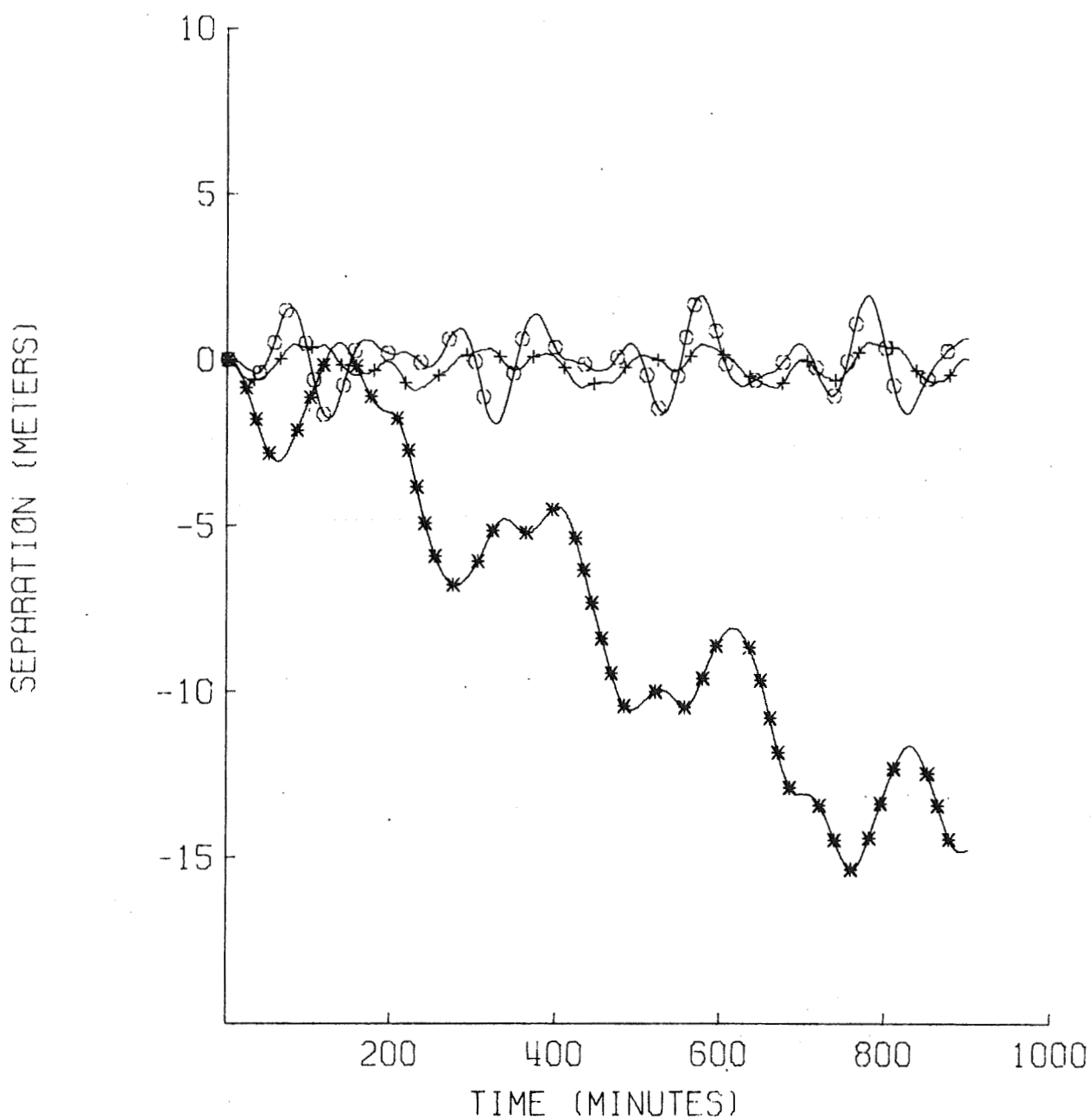
RUN FOR C(11.8) = .0442

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

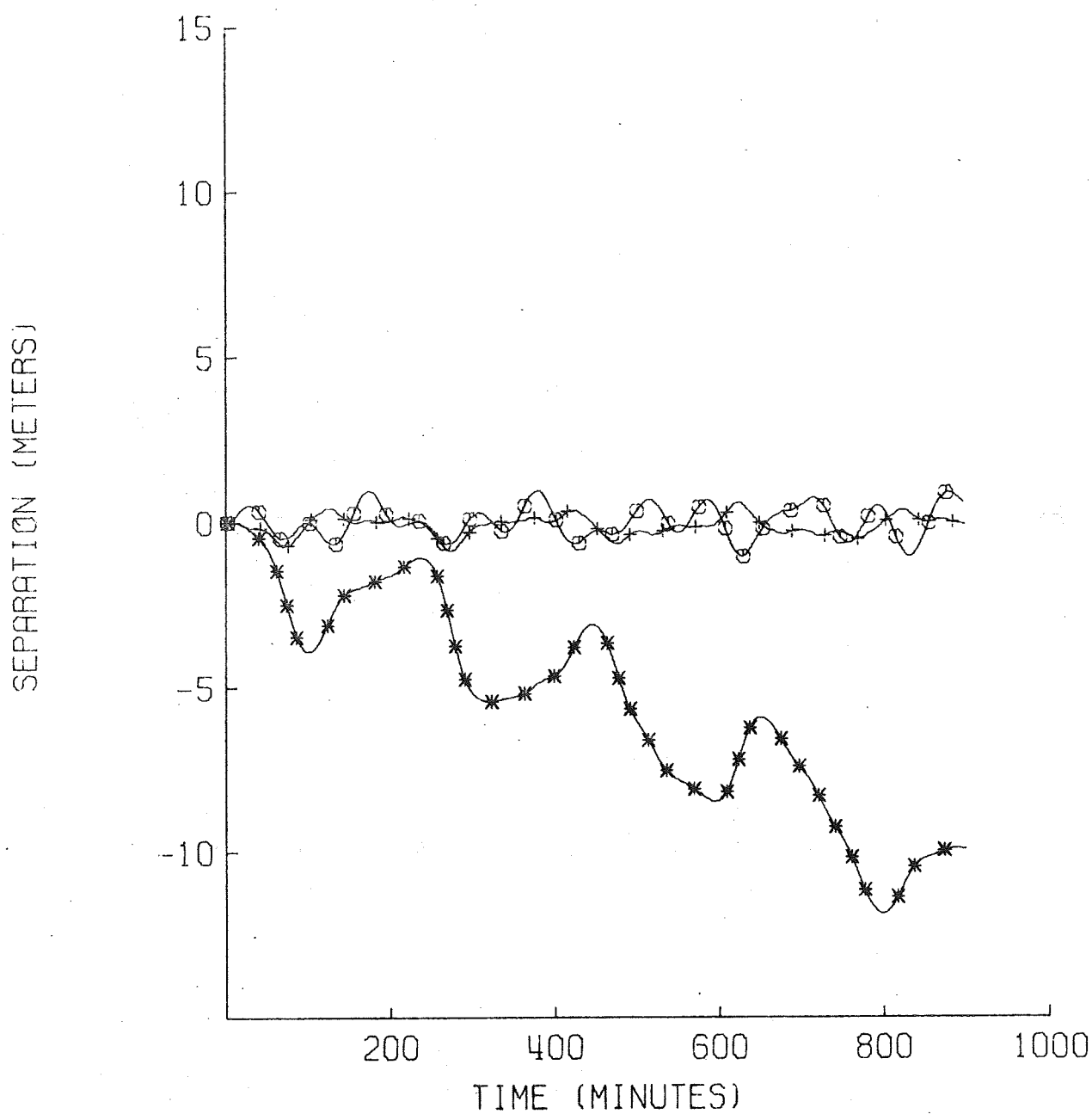
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(11,8) = .0348
 FACTOR USED IS 1.000000

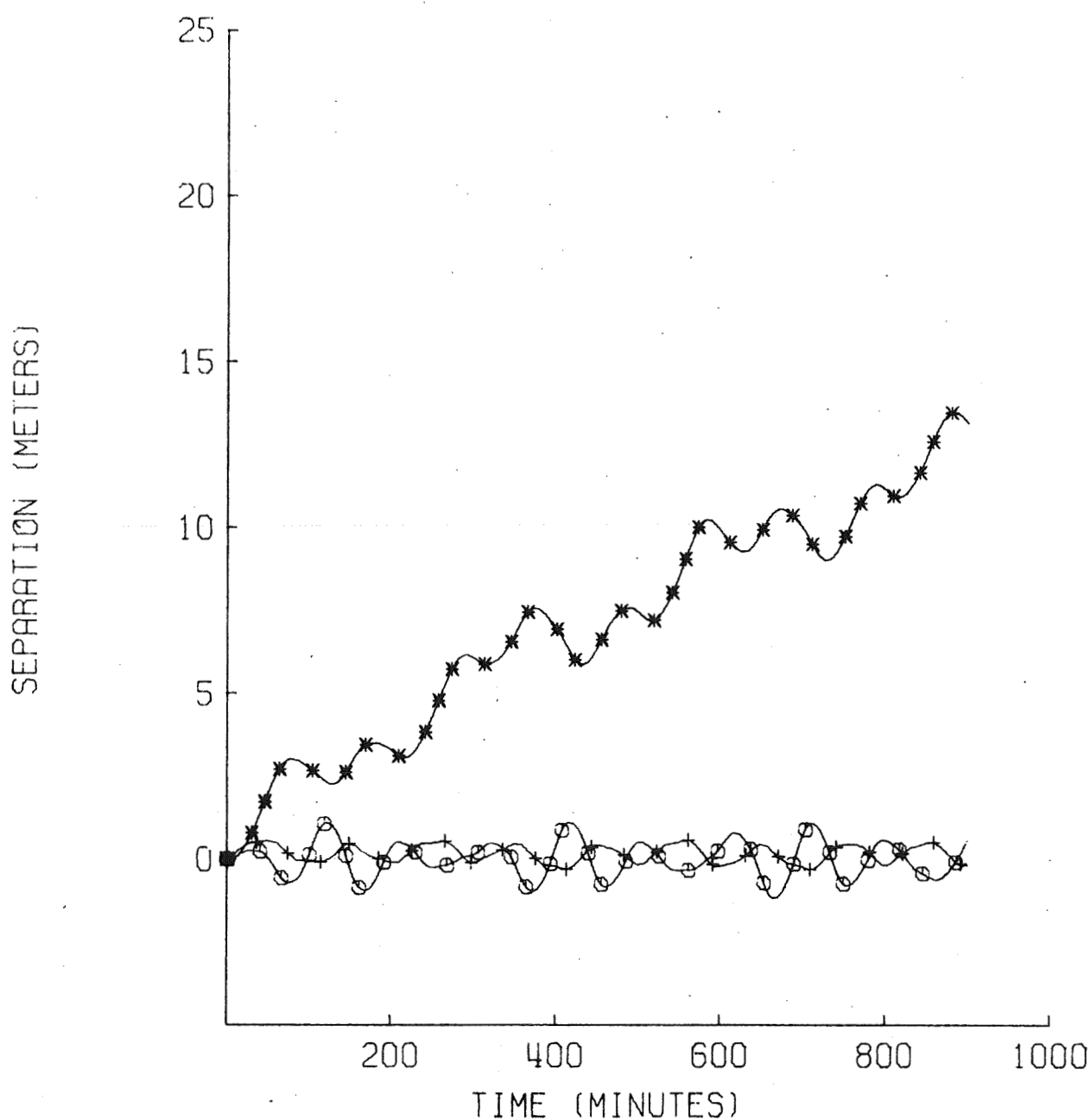
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(11.9) = .0257
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK

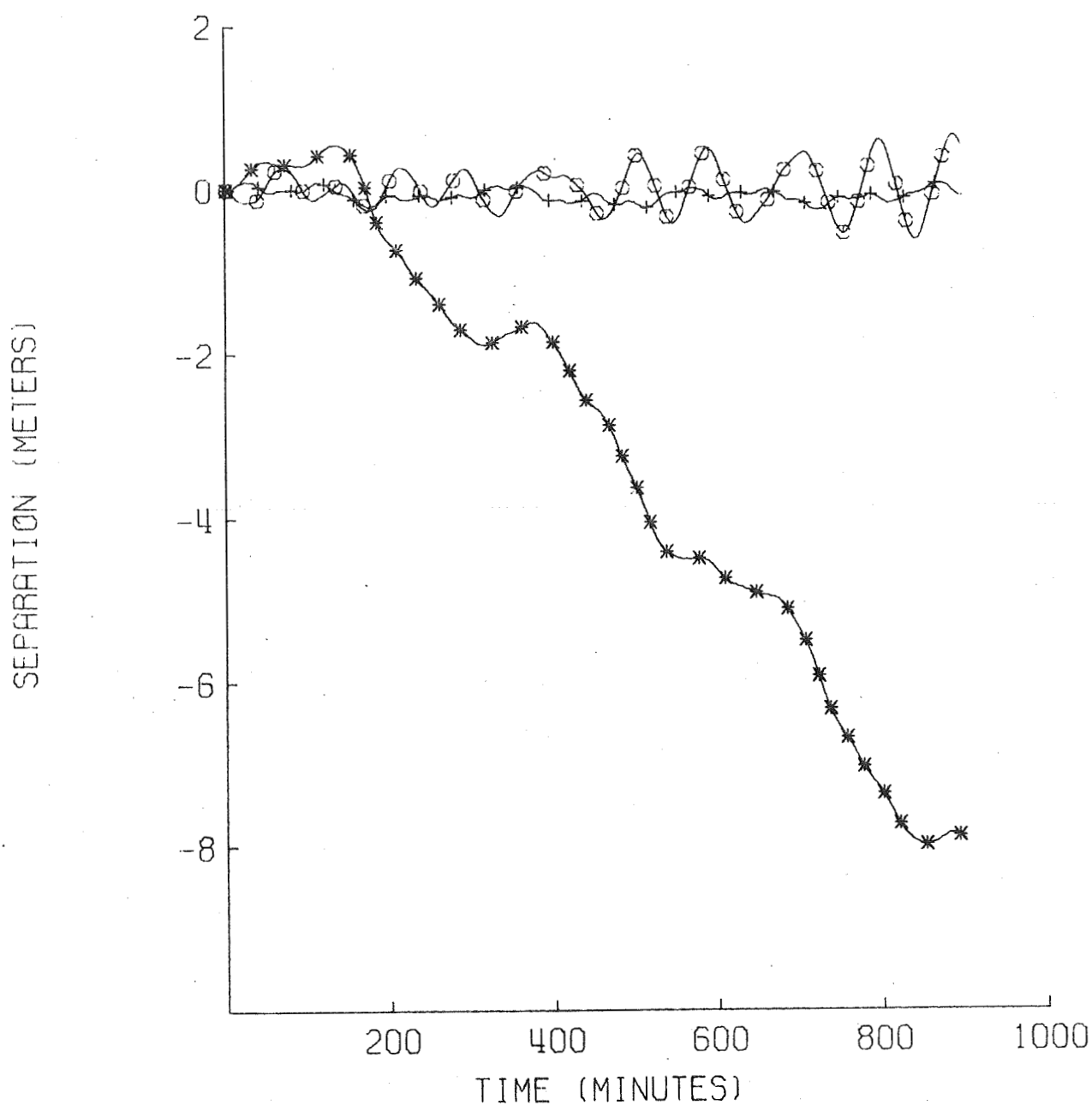


M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(11,9) = .0139

FACTOR USED IS 1.000000

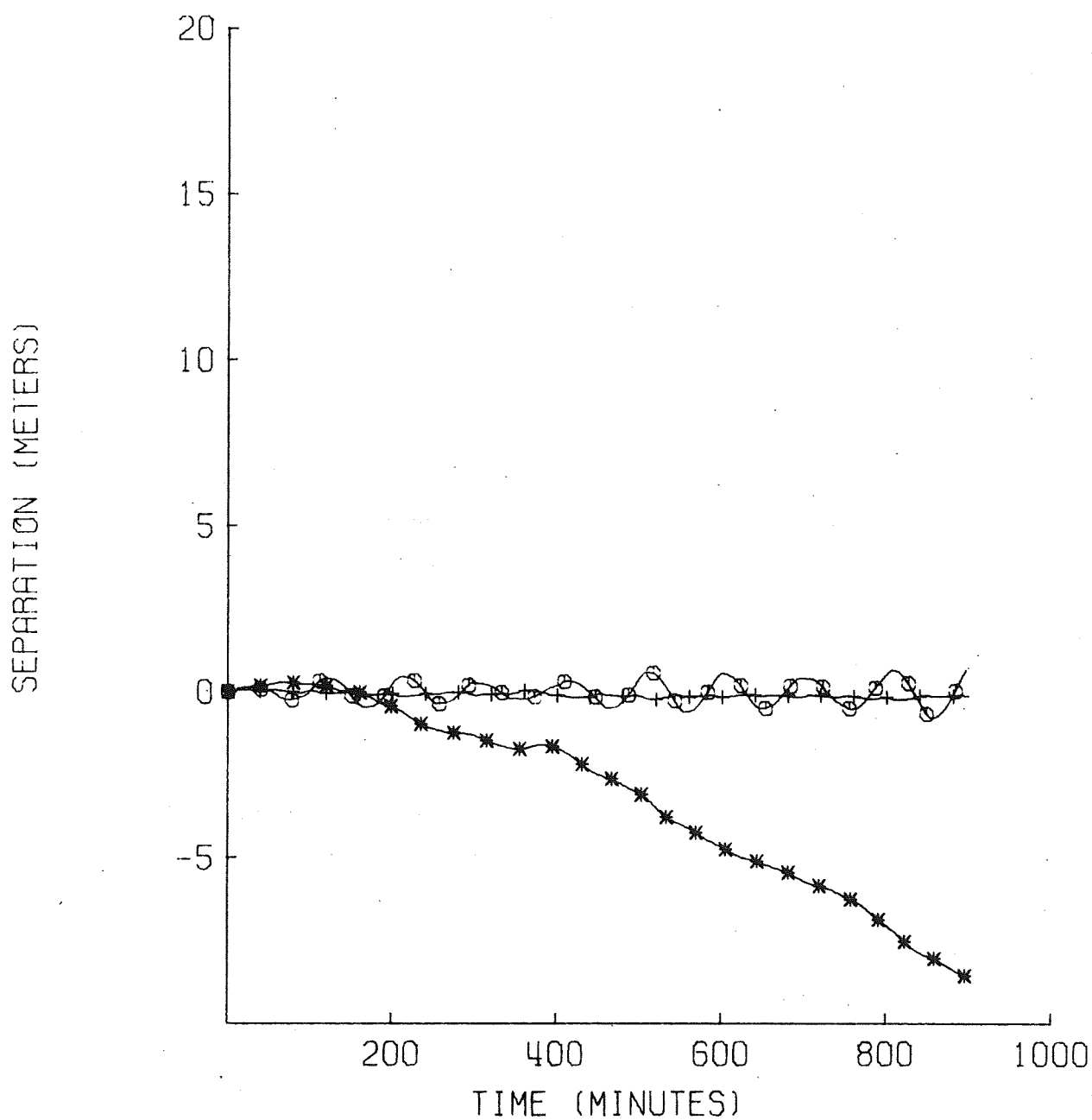
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(11,10) = -.0170
 FACTOR USED IS 1.000000

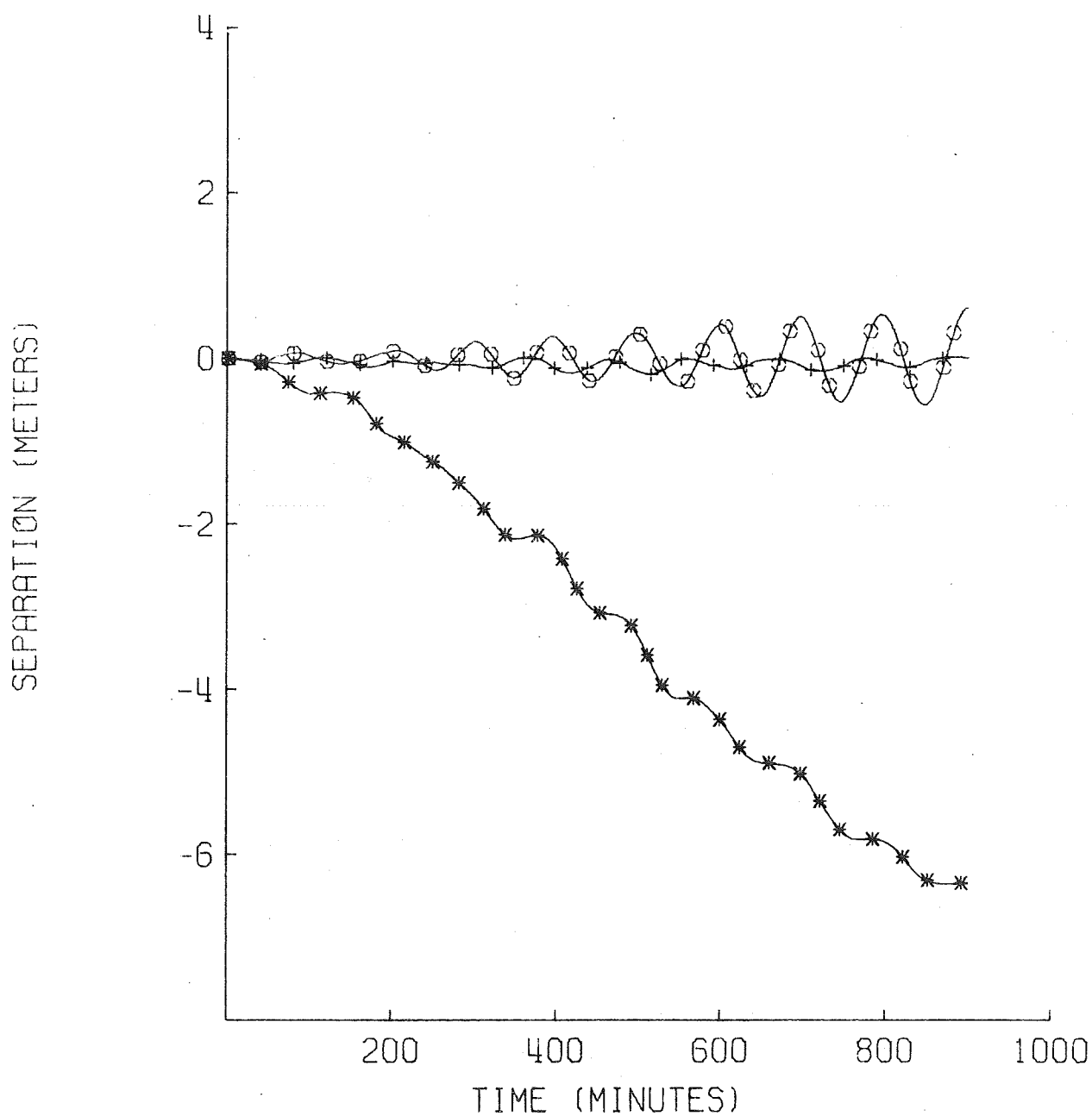
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(11,10) = -.0039
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C	OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535	

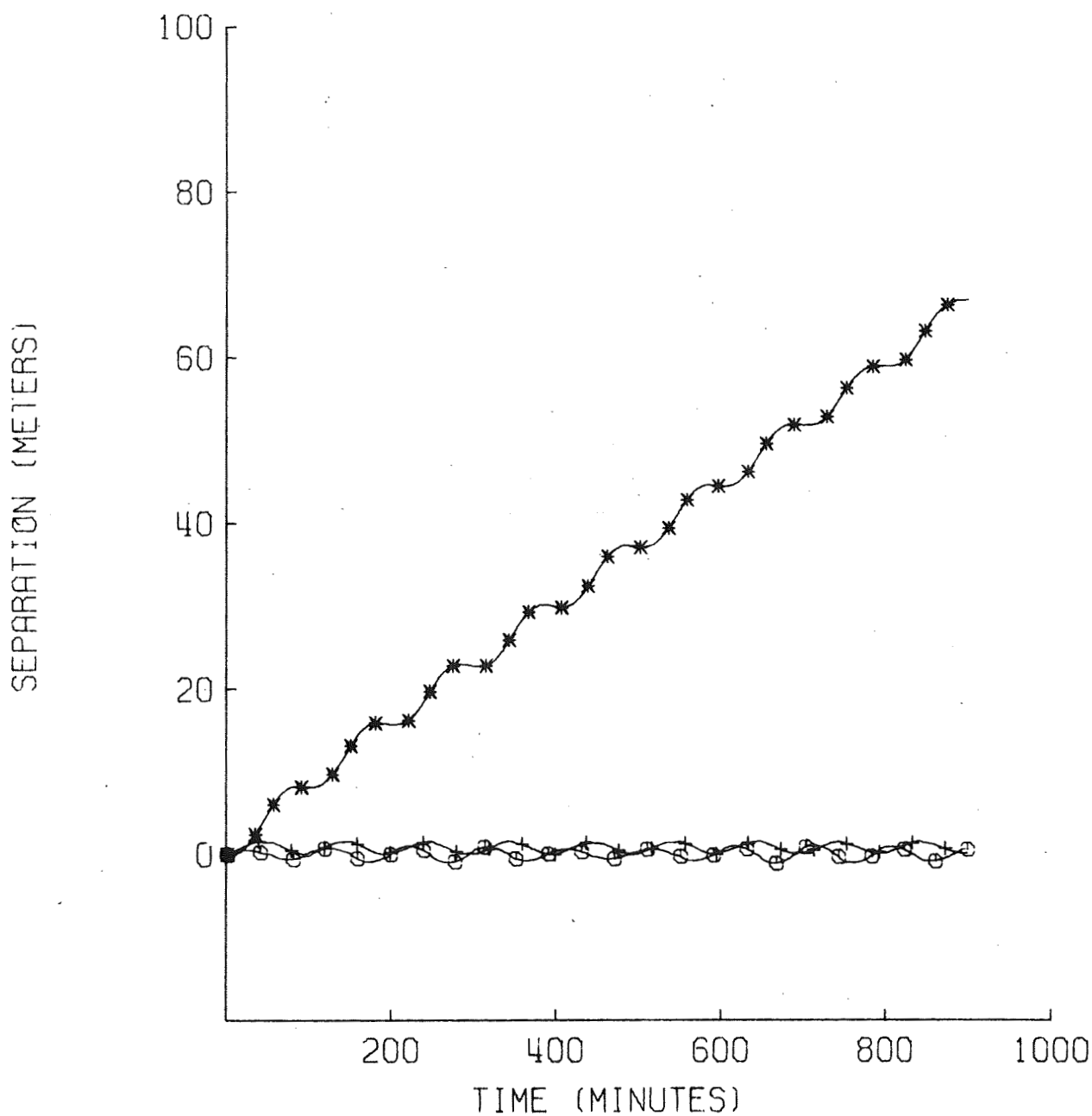
RUN FOR C(11,11) = .0642

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

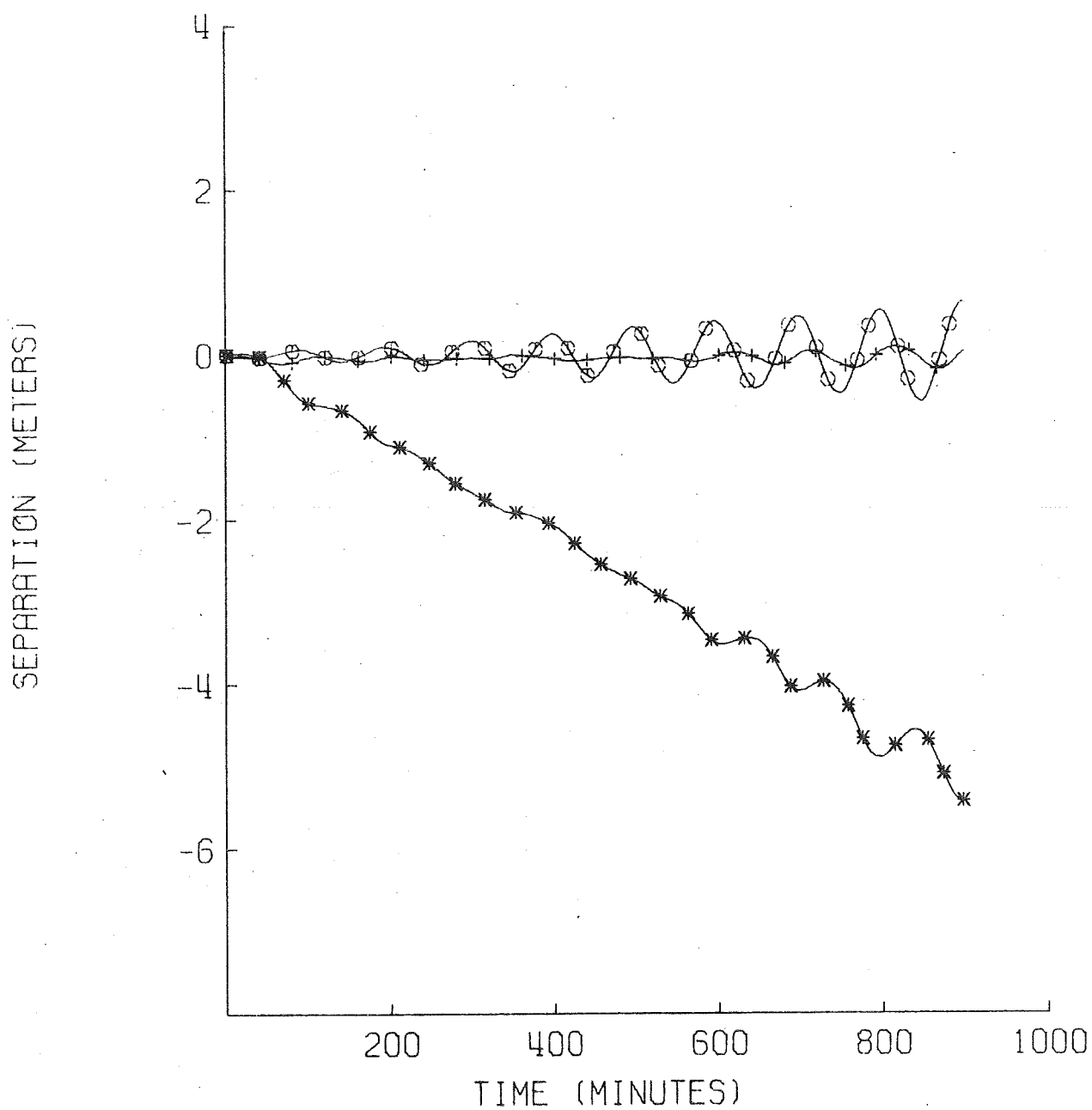
RUN FOR S(11,11) = .0050

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

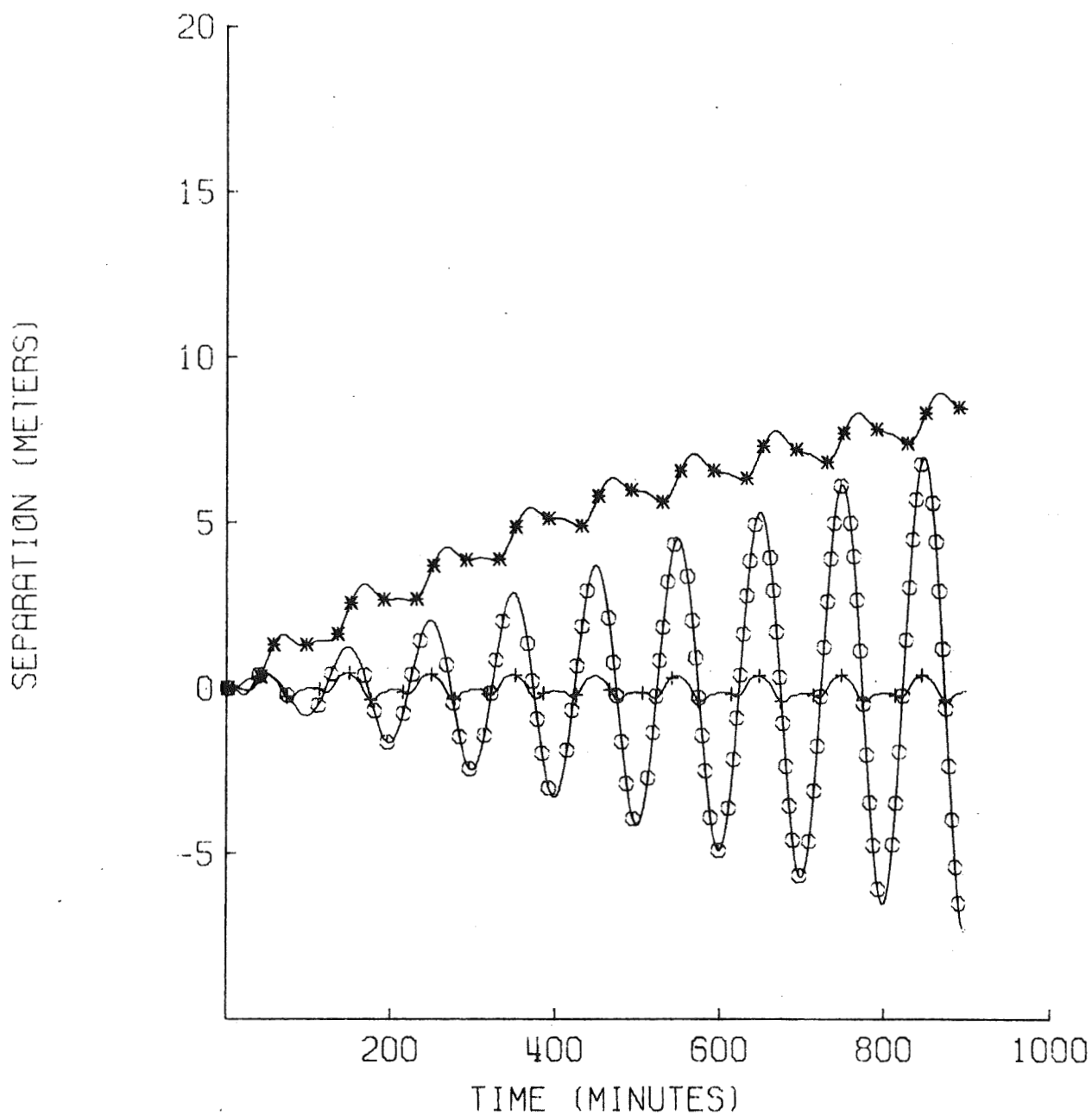
RUN FOR C(12,0) = -.0506

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C	OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535	

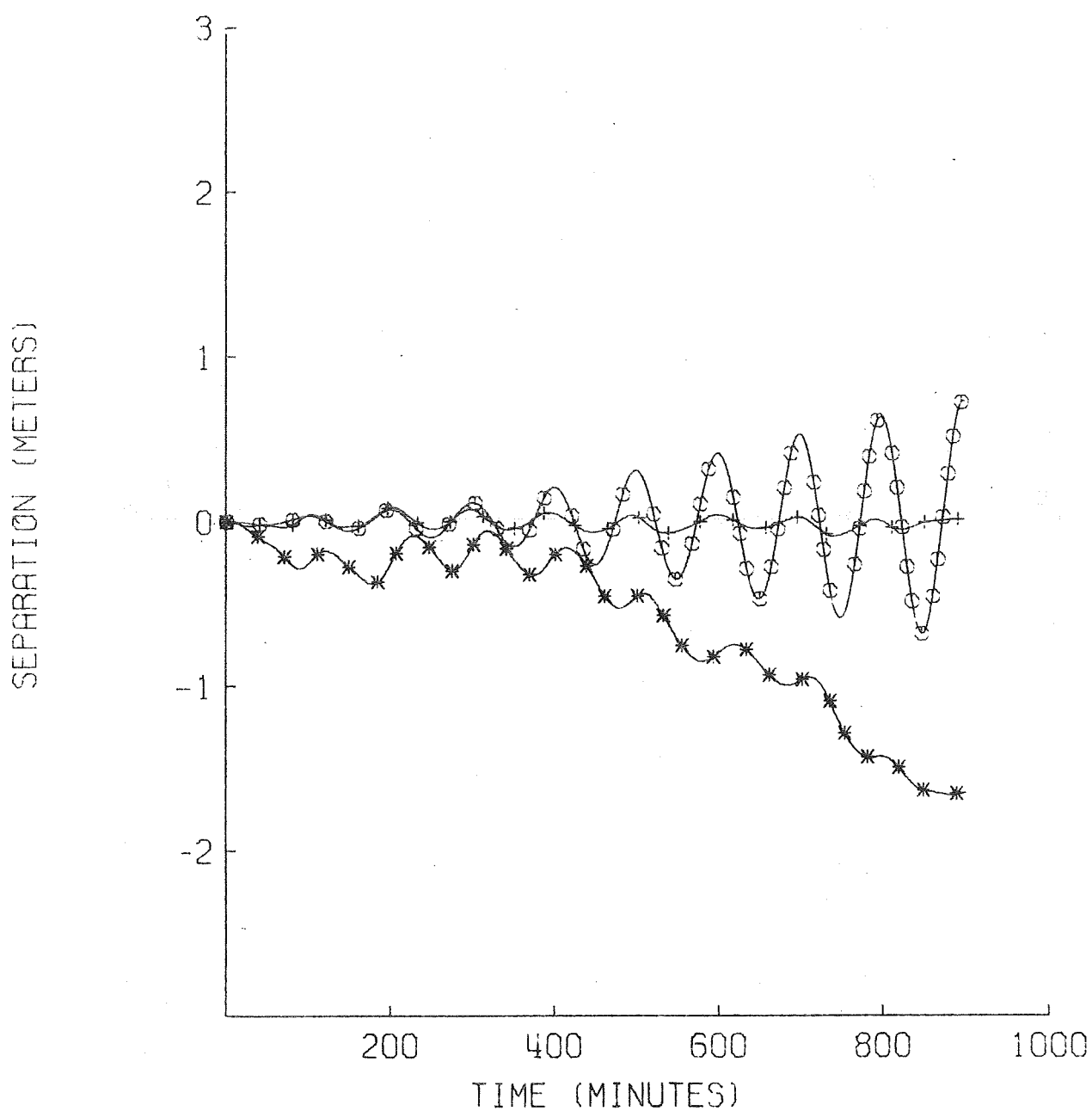
RUN FOR C(12,1) = .0021

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

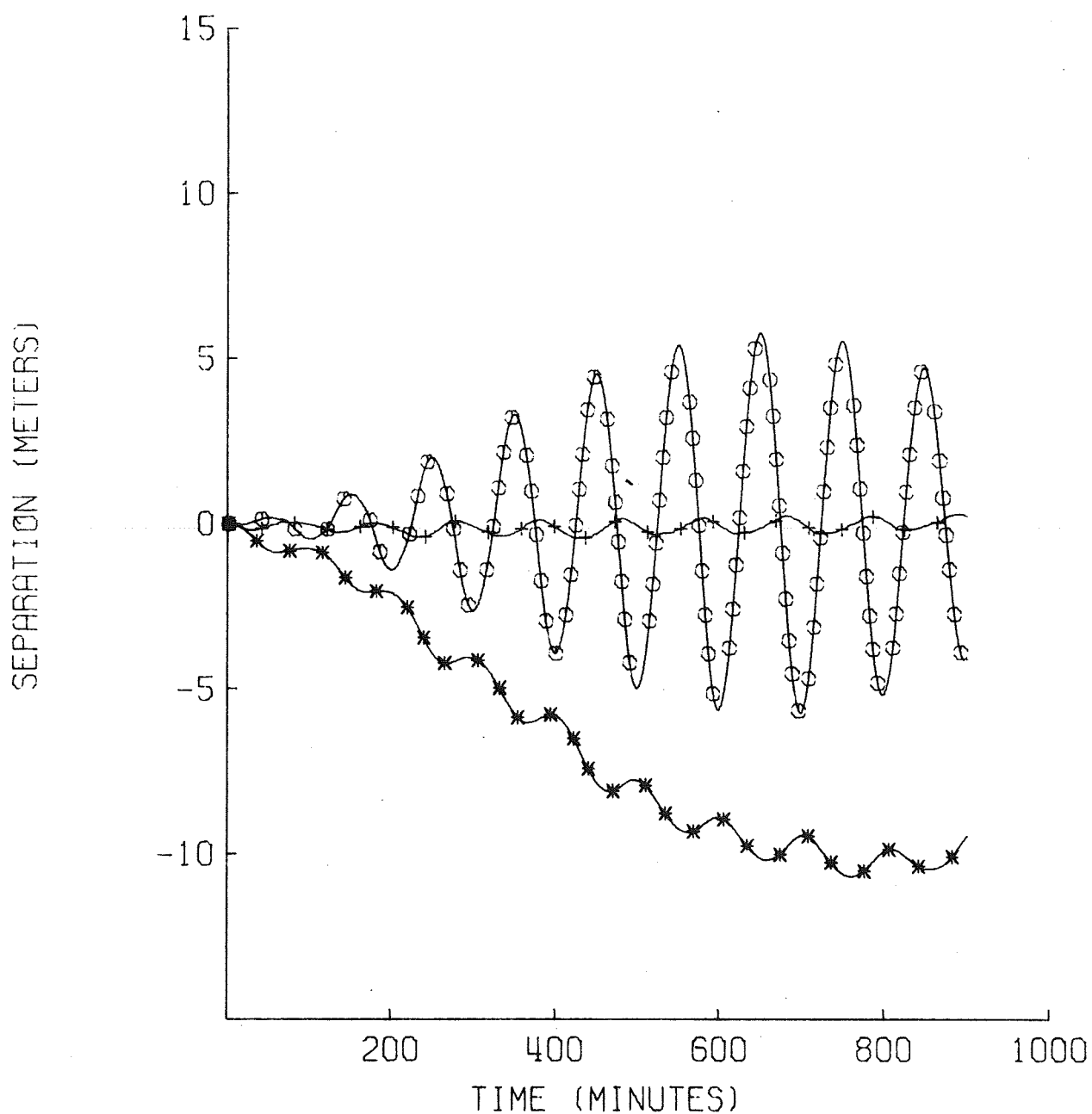
RUN FOR S(12,1) = -.0673

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

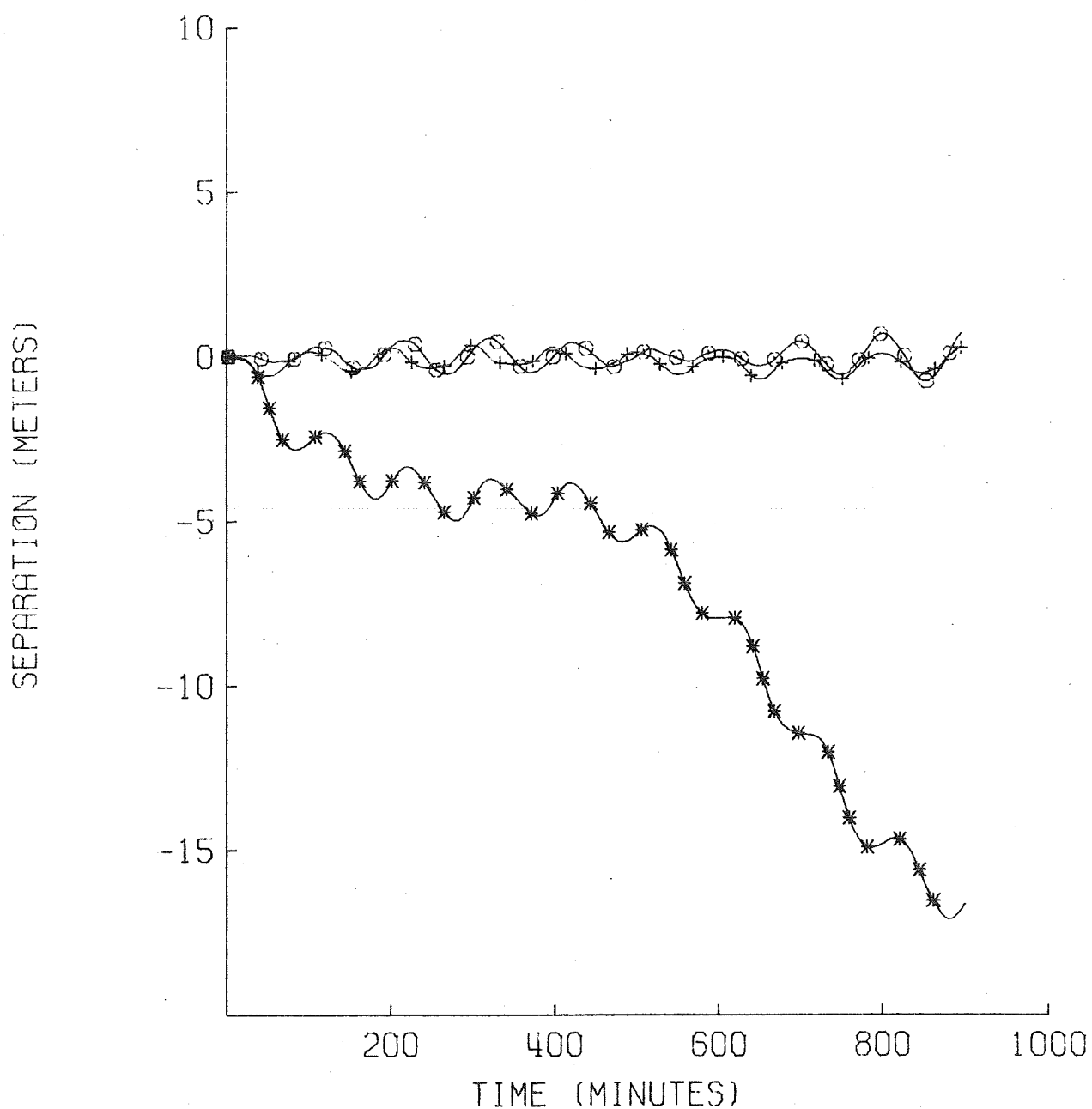
RUN FOR C(12,2) = -.0368

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK

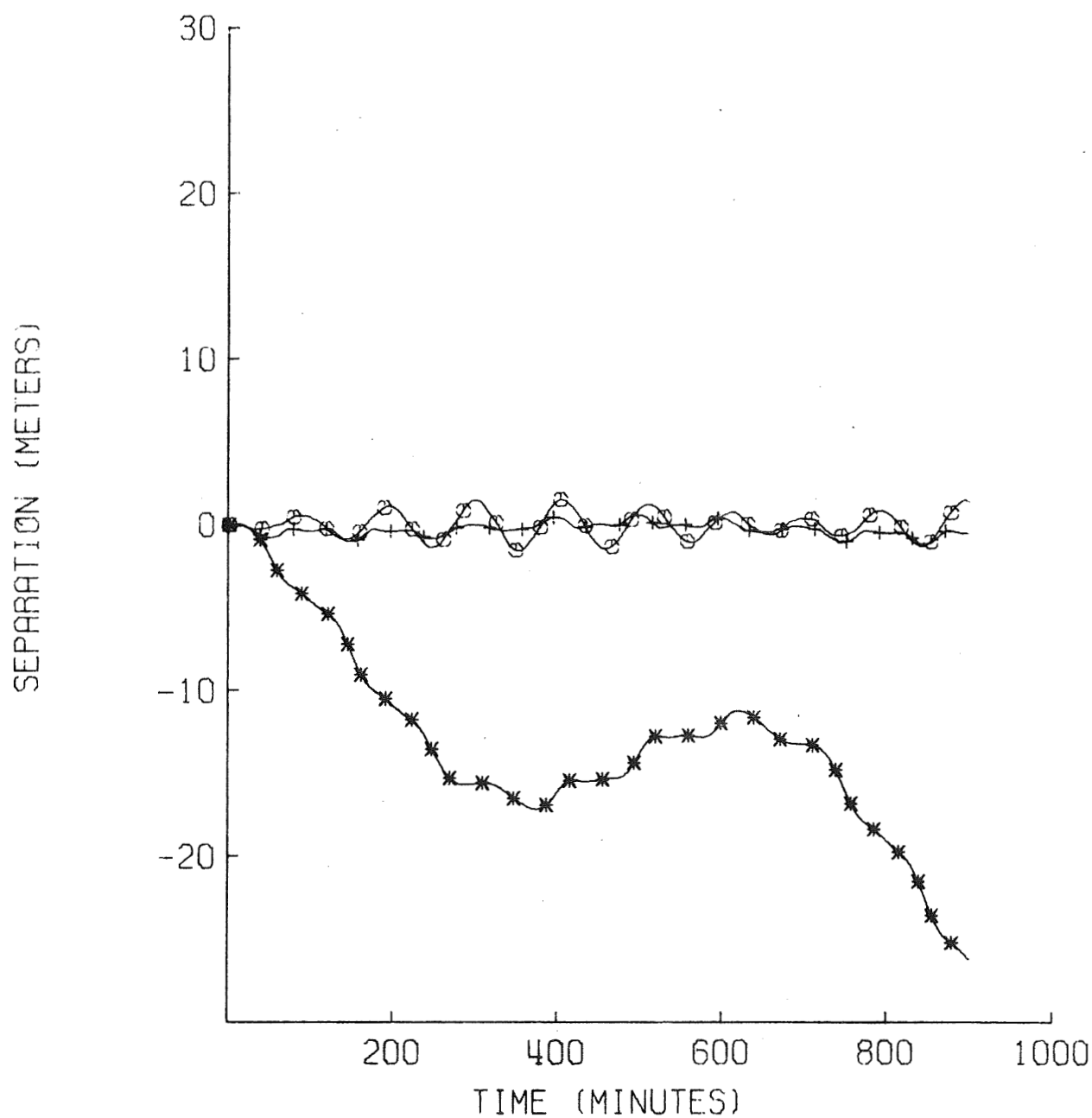


M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(12,2) = .0903

FACTOR USED IS 1.000000

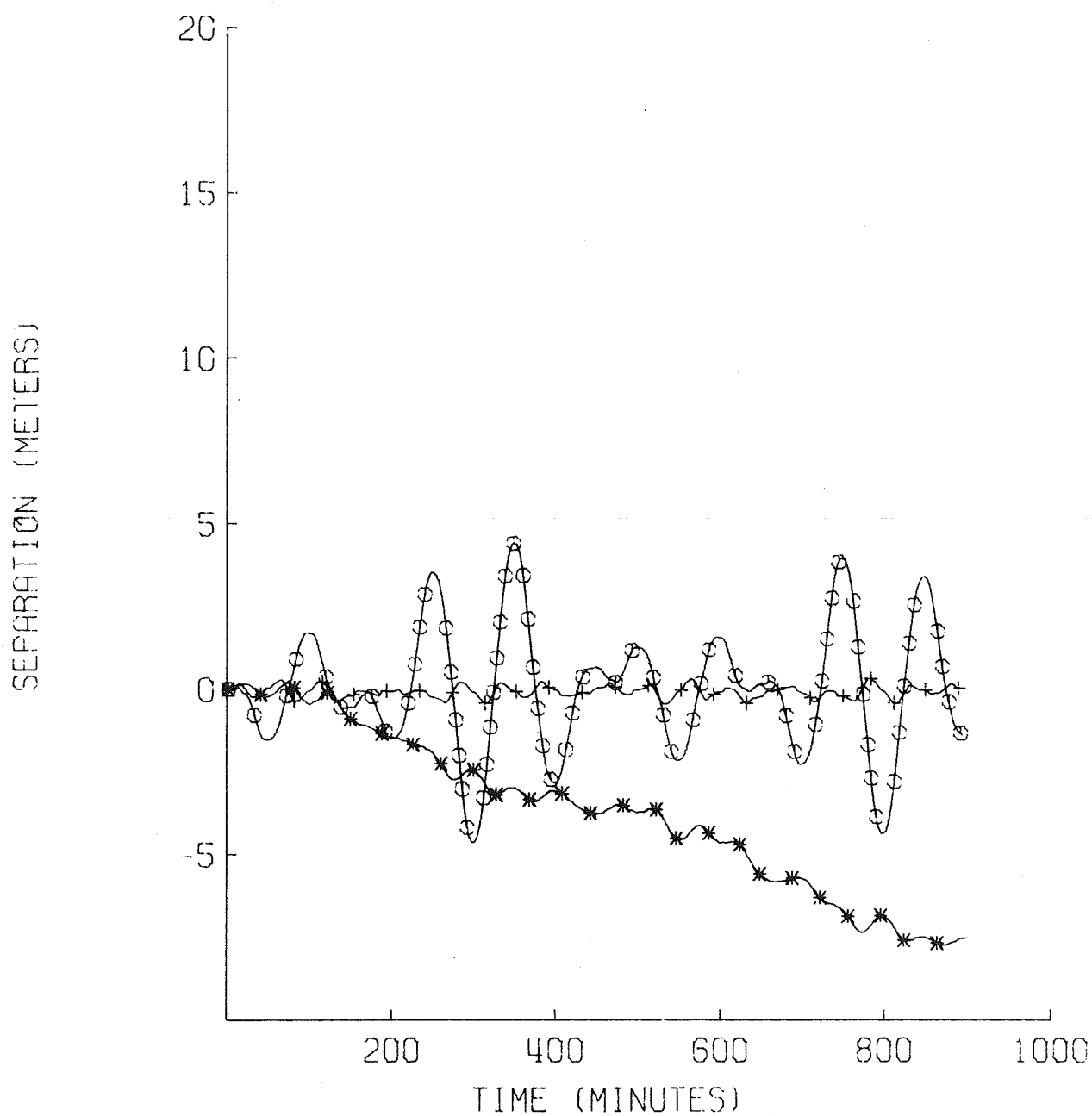
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(12.3) = .1361
 FACTOR USED IS 1.000000

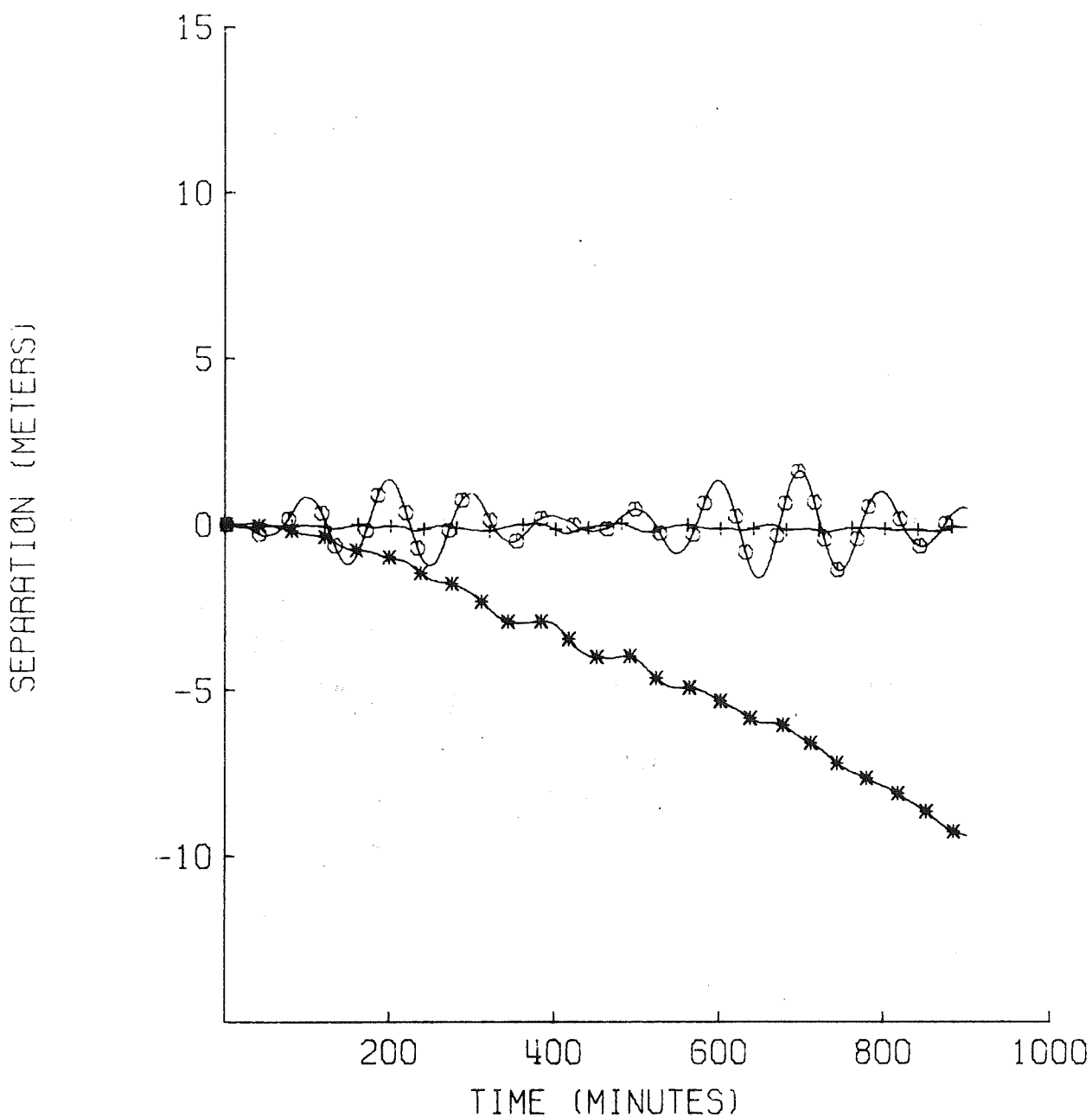
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(12,3) = -.0263
 FACTOR USED IS 1.000000

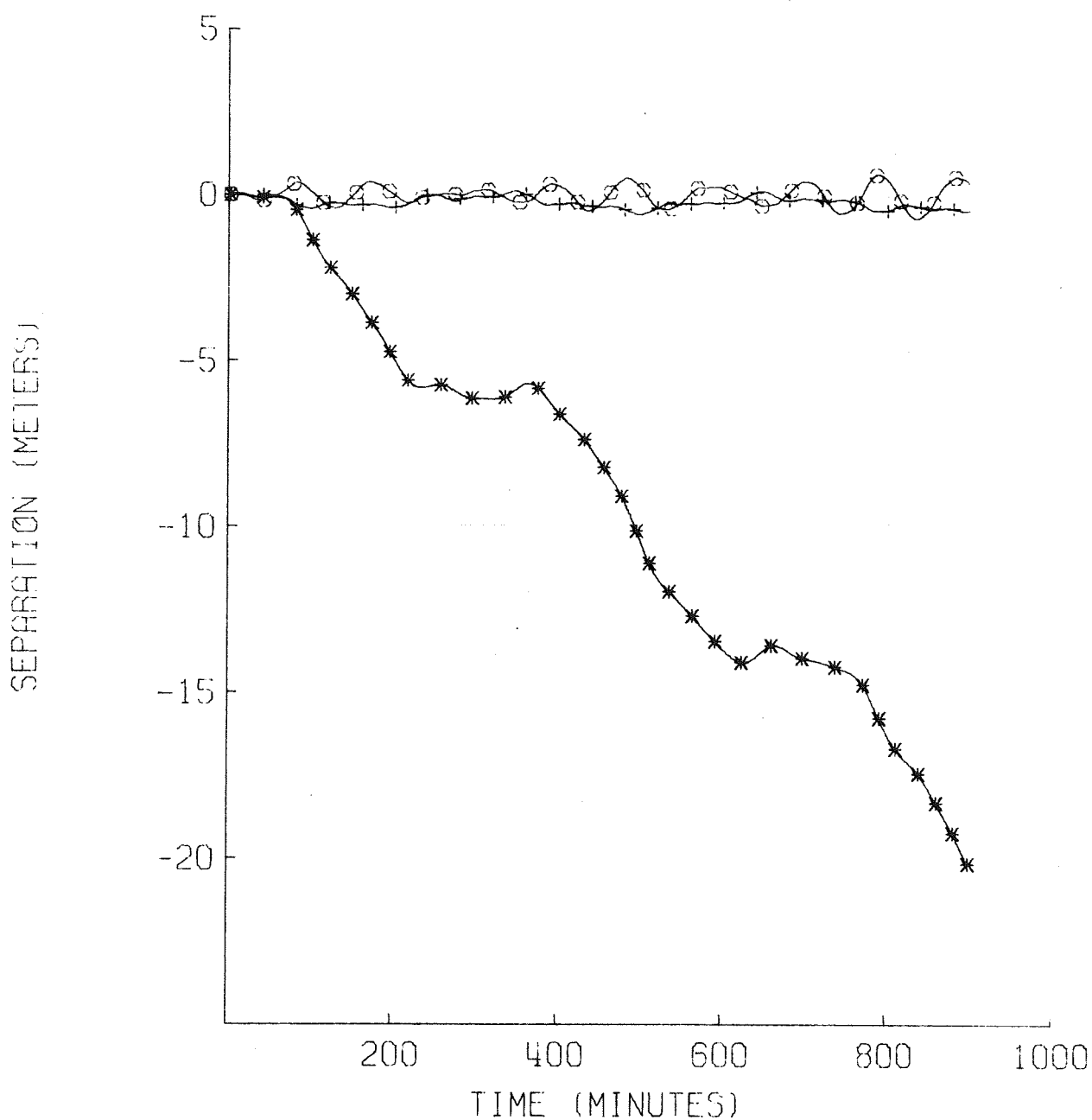
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(12,4) = -.0270
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

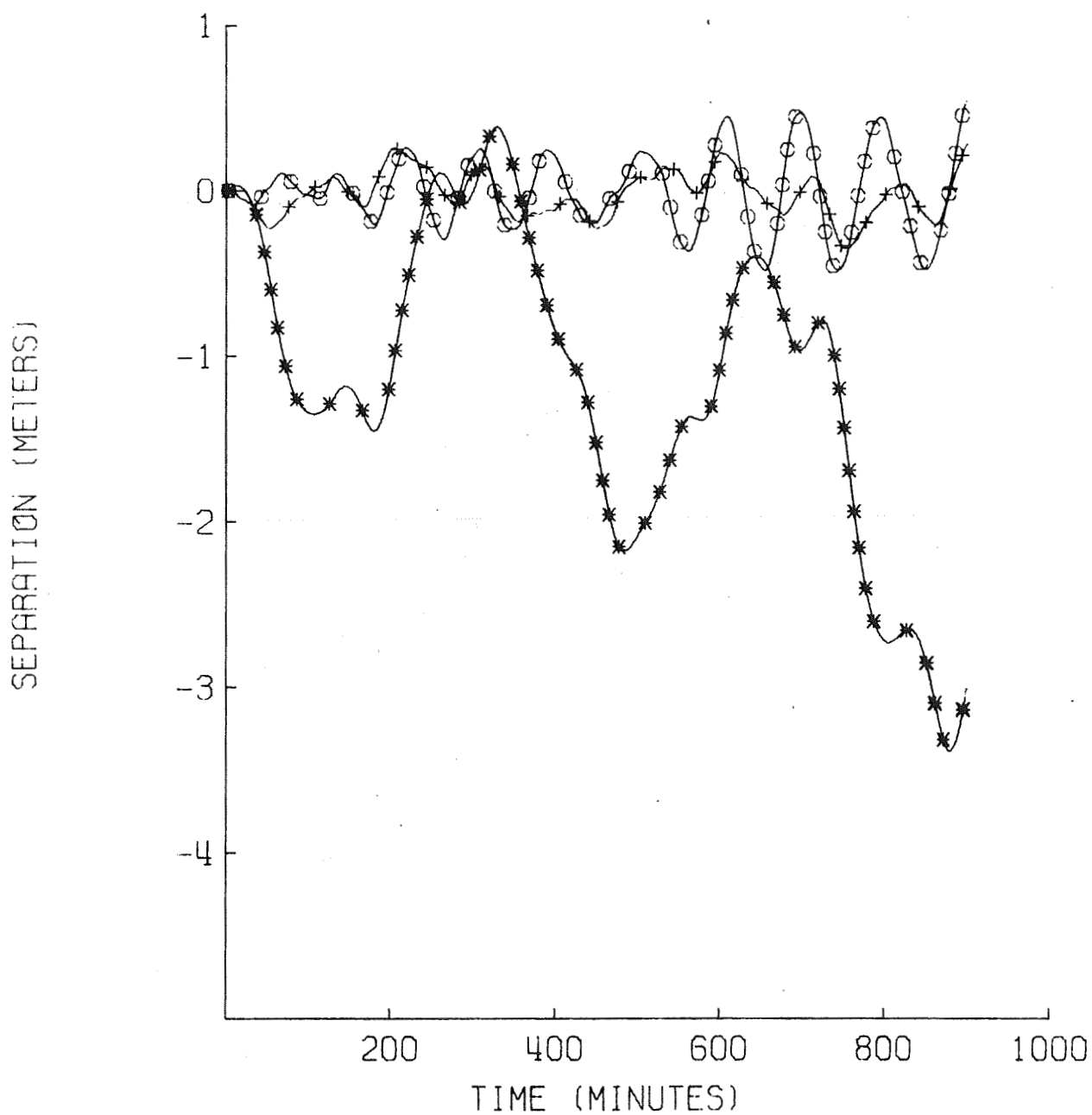
RUN FOR S(12,4) = -.0190

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

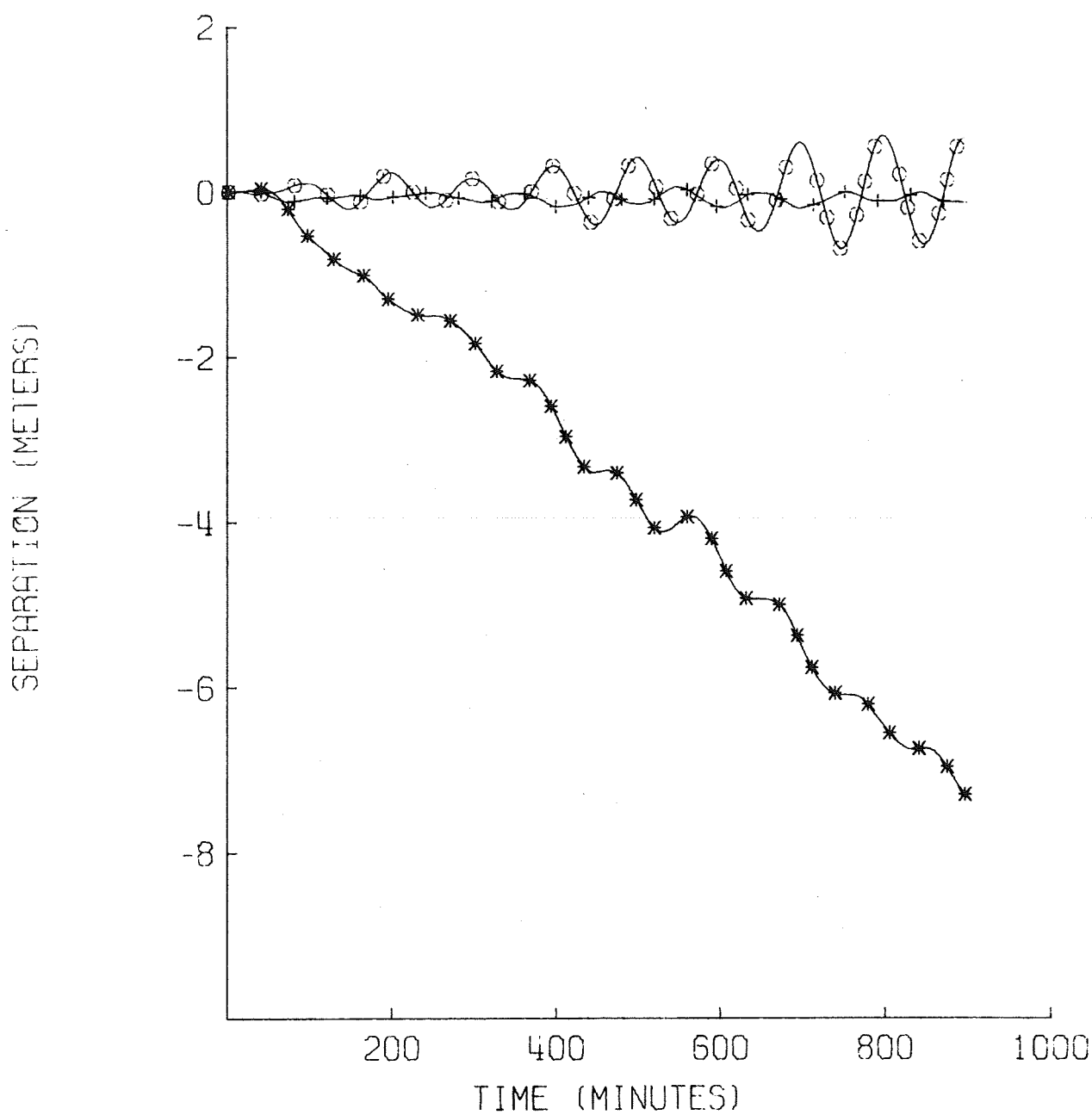
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(12,5) = .0047
 FACTOR USED IS 1.000000

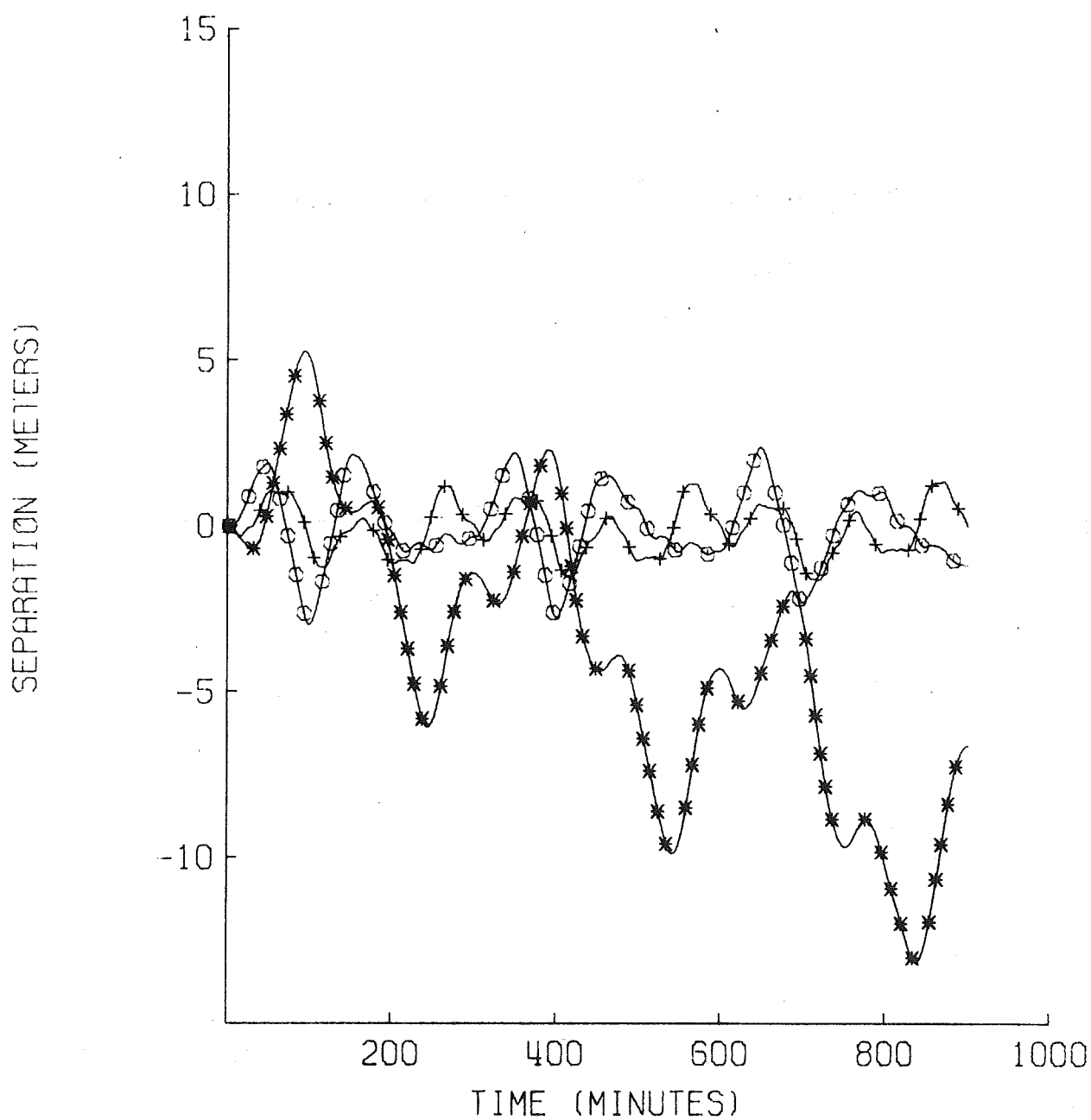
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(12,5) = -.1105
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

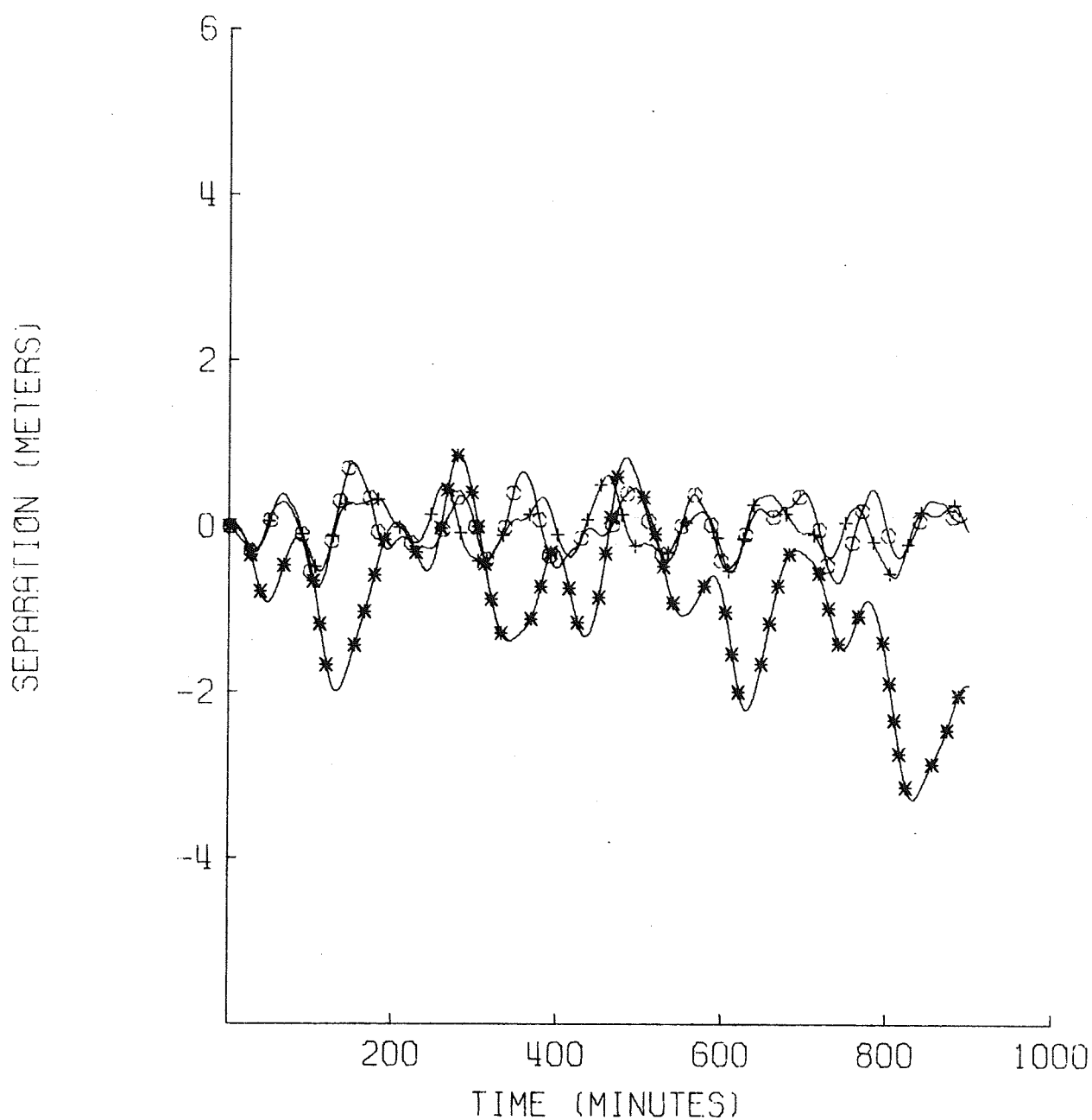
RUN FOR C(12,6) = .0354

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

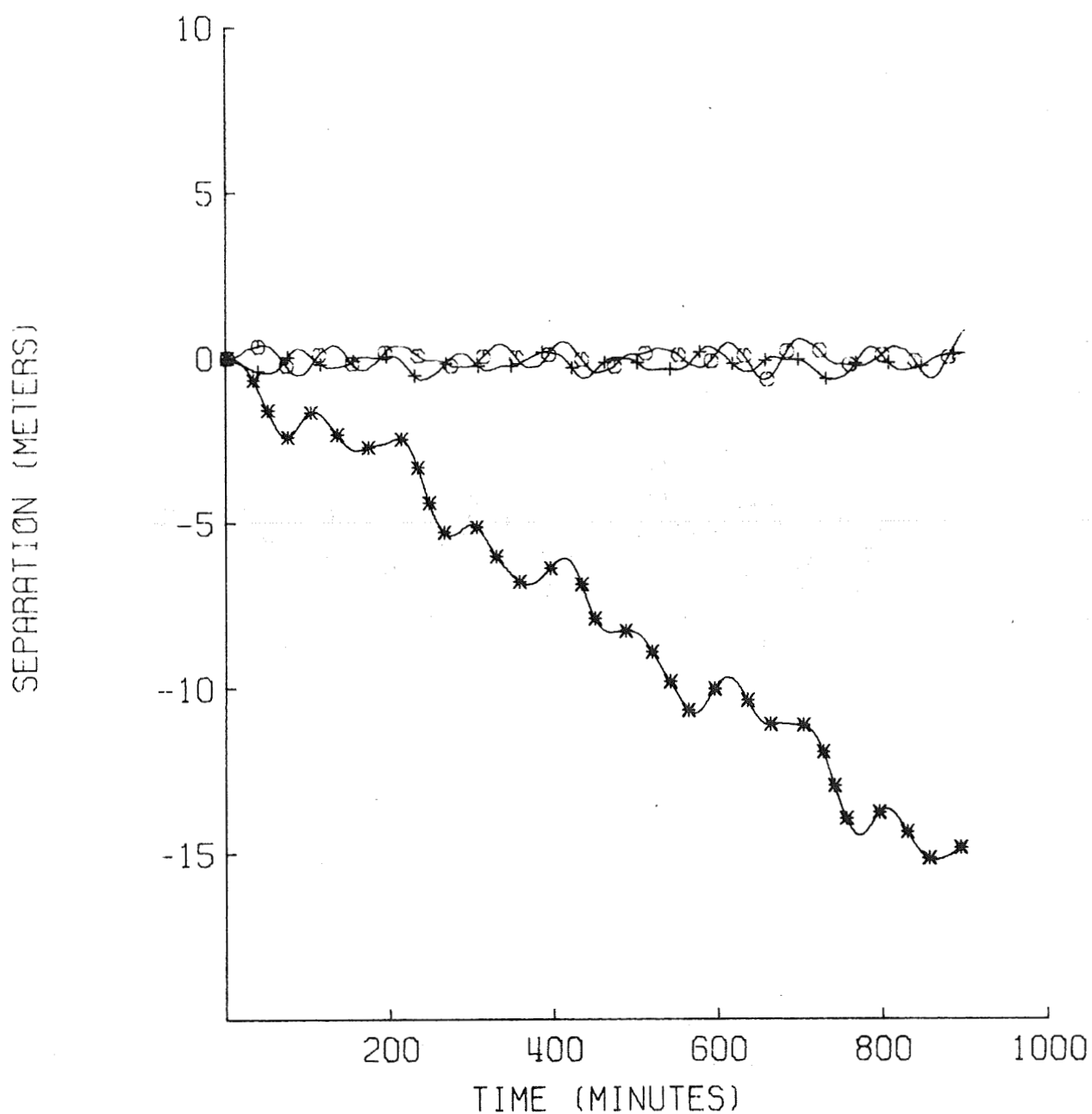
RUN FOR $S(12, 6) = .0254$

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

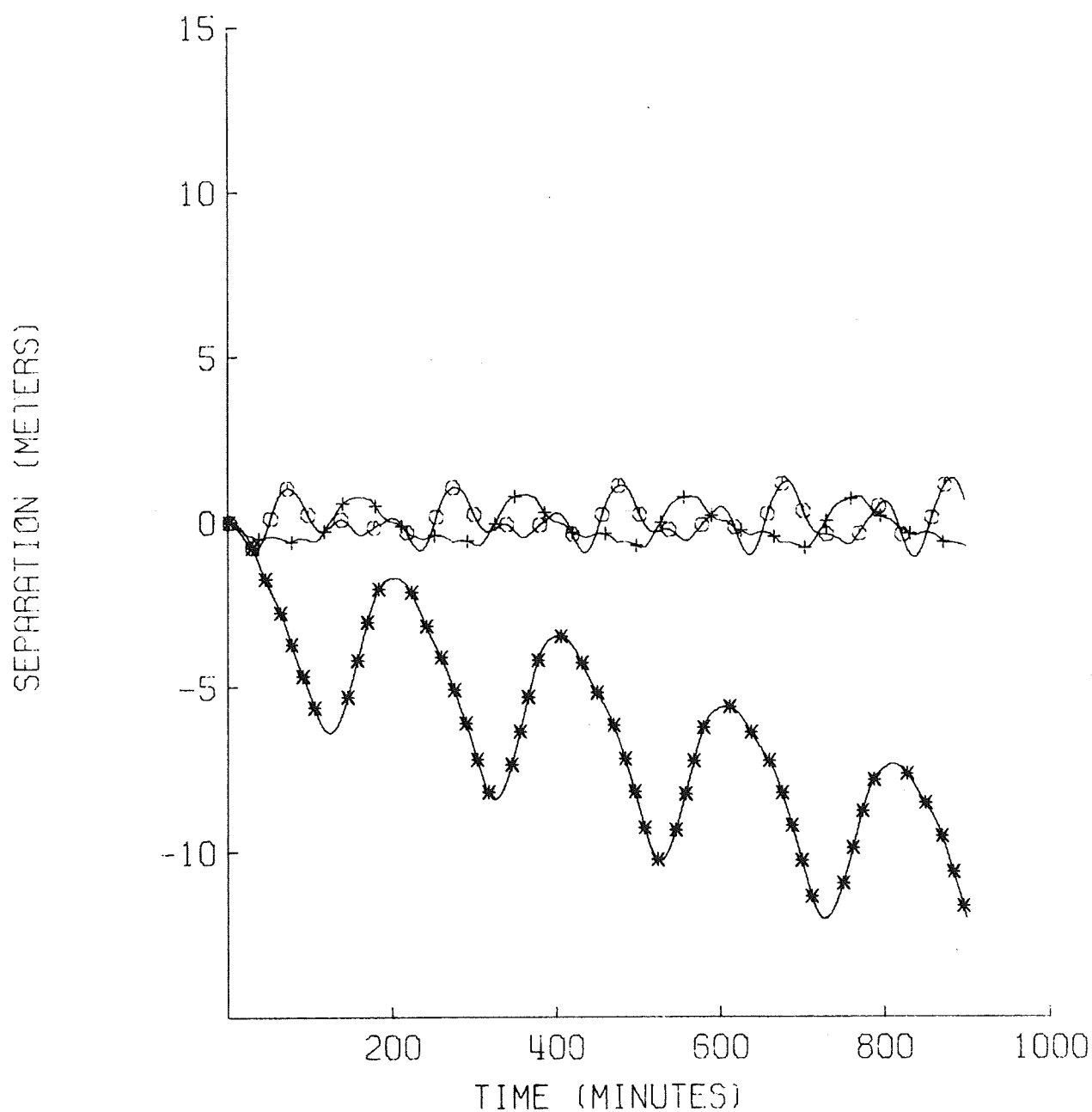
RUN FOR C(12,7) = -.0491

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

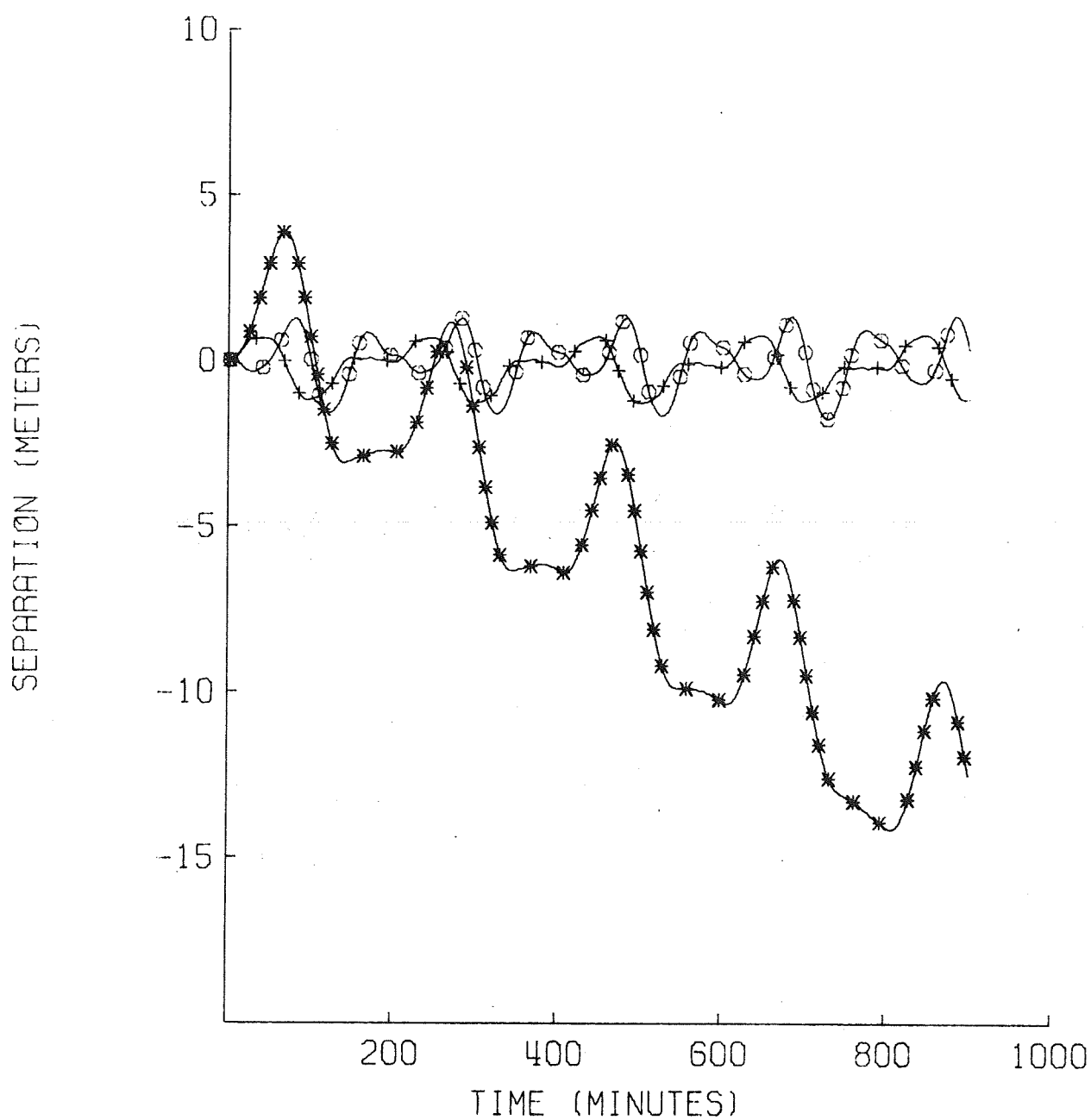
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(12.7) = .0508
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

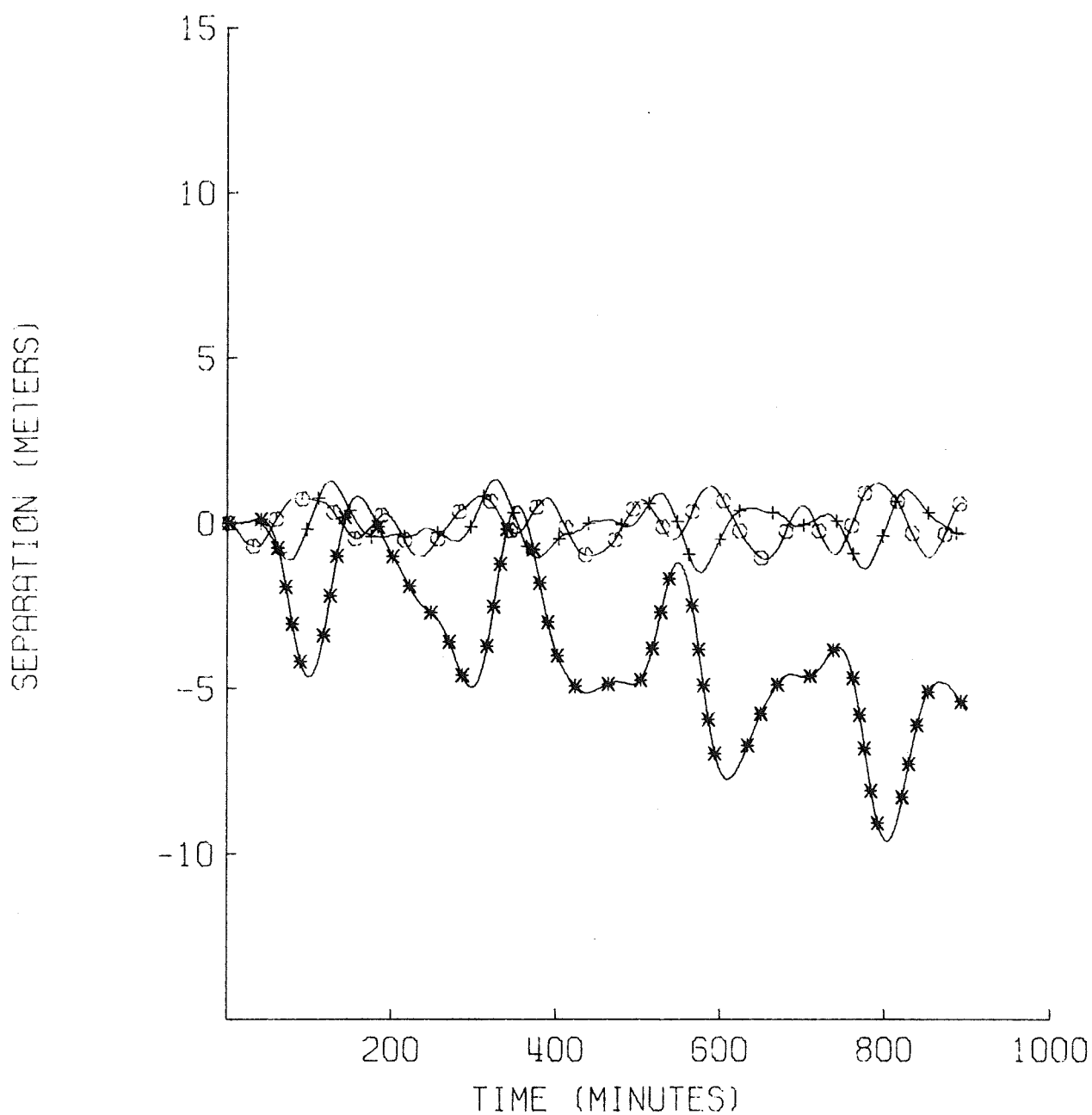
RUN FOR C(12,8) = .0390

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

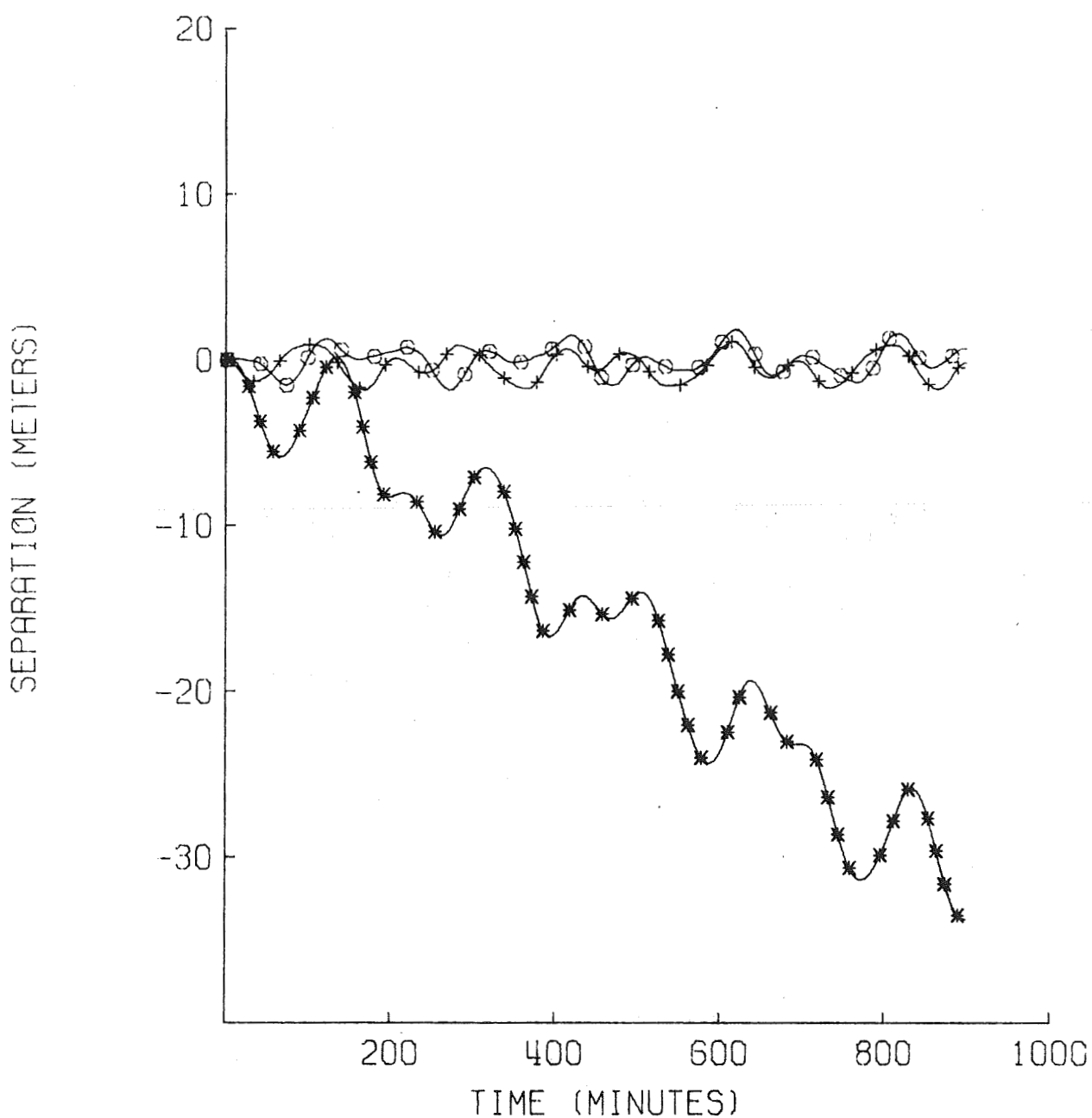
RUN FOR S(12,8) = .0543

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

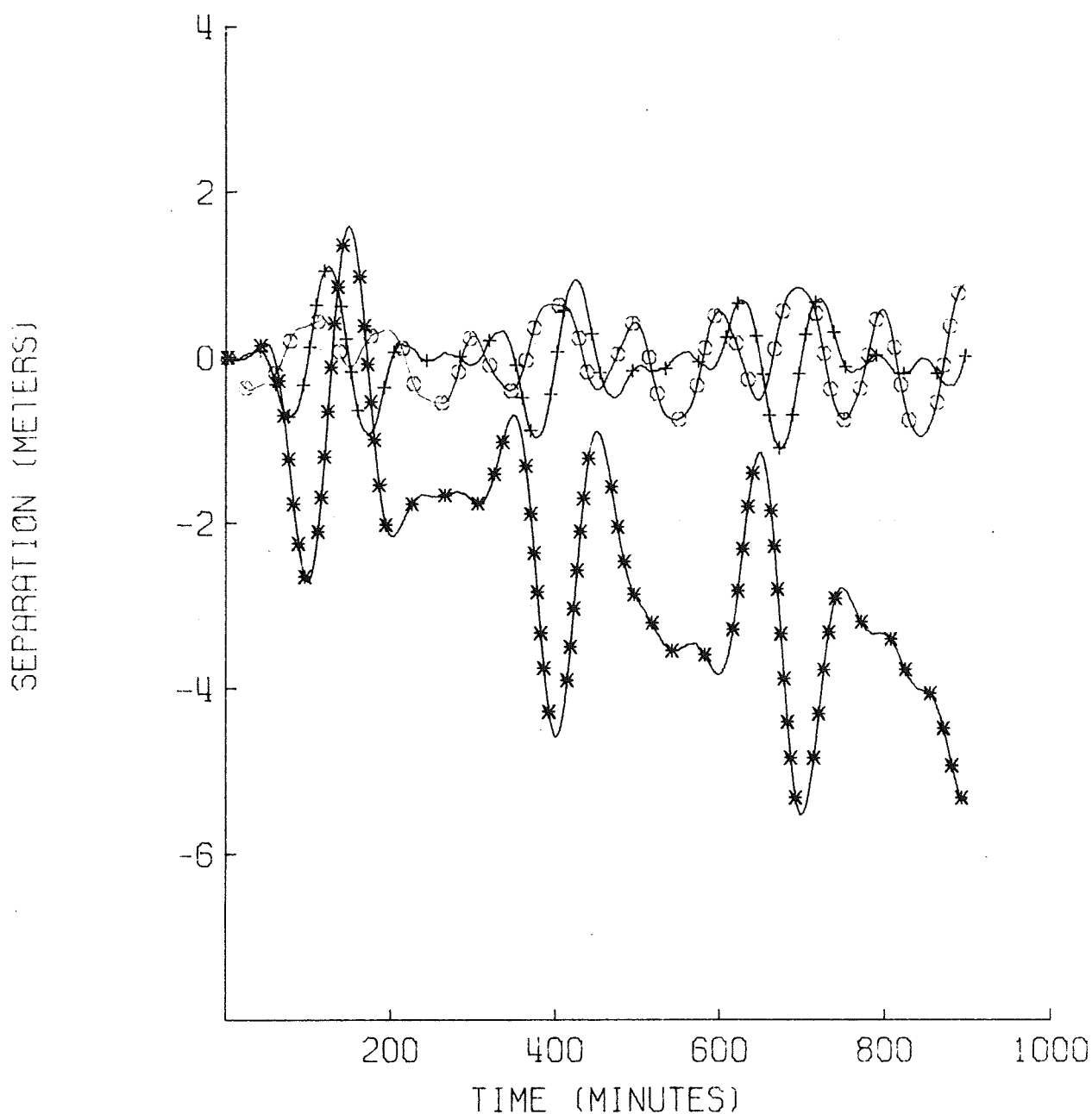
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(12,9) = -.0275
 FACTOR USED IS 1.000000

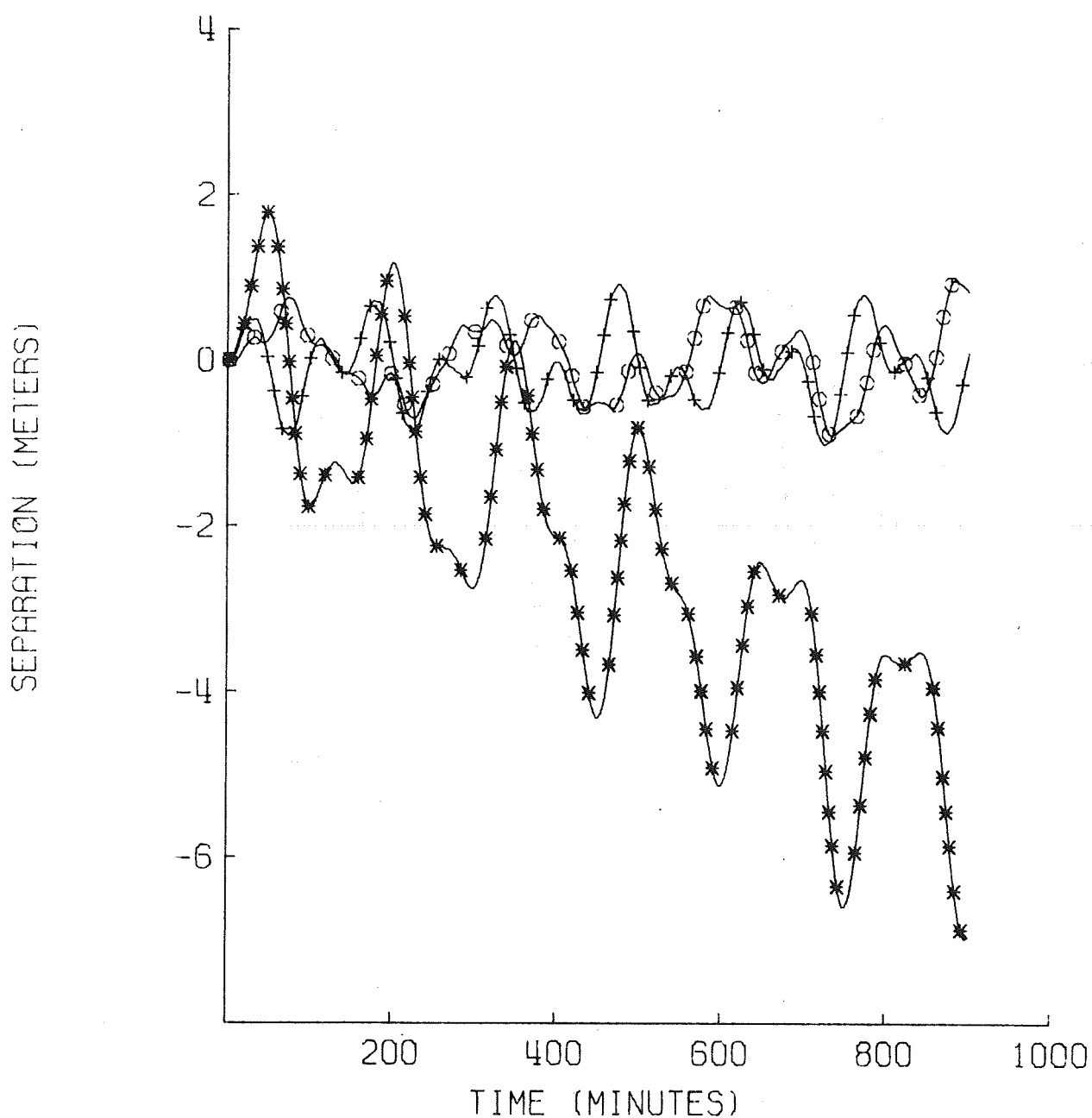
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(12,9) = .0409
 FACTOR USED IS 1.000000

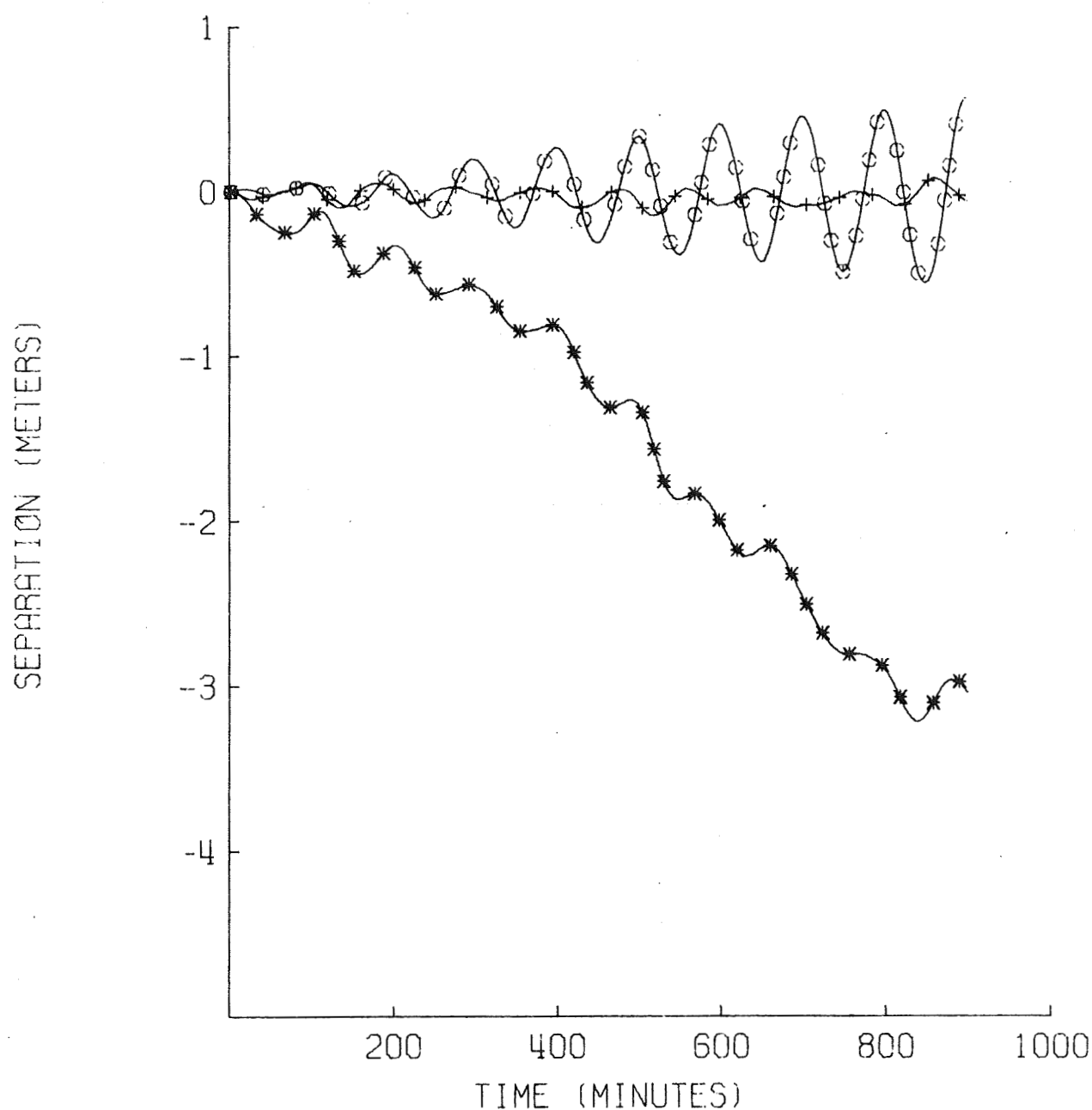
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(12,10) = -.0025
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

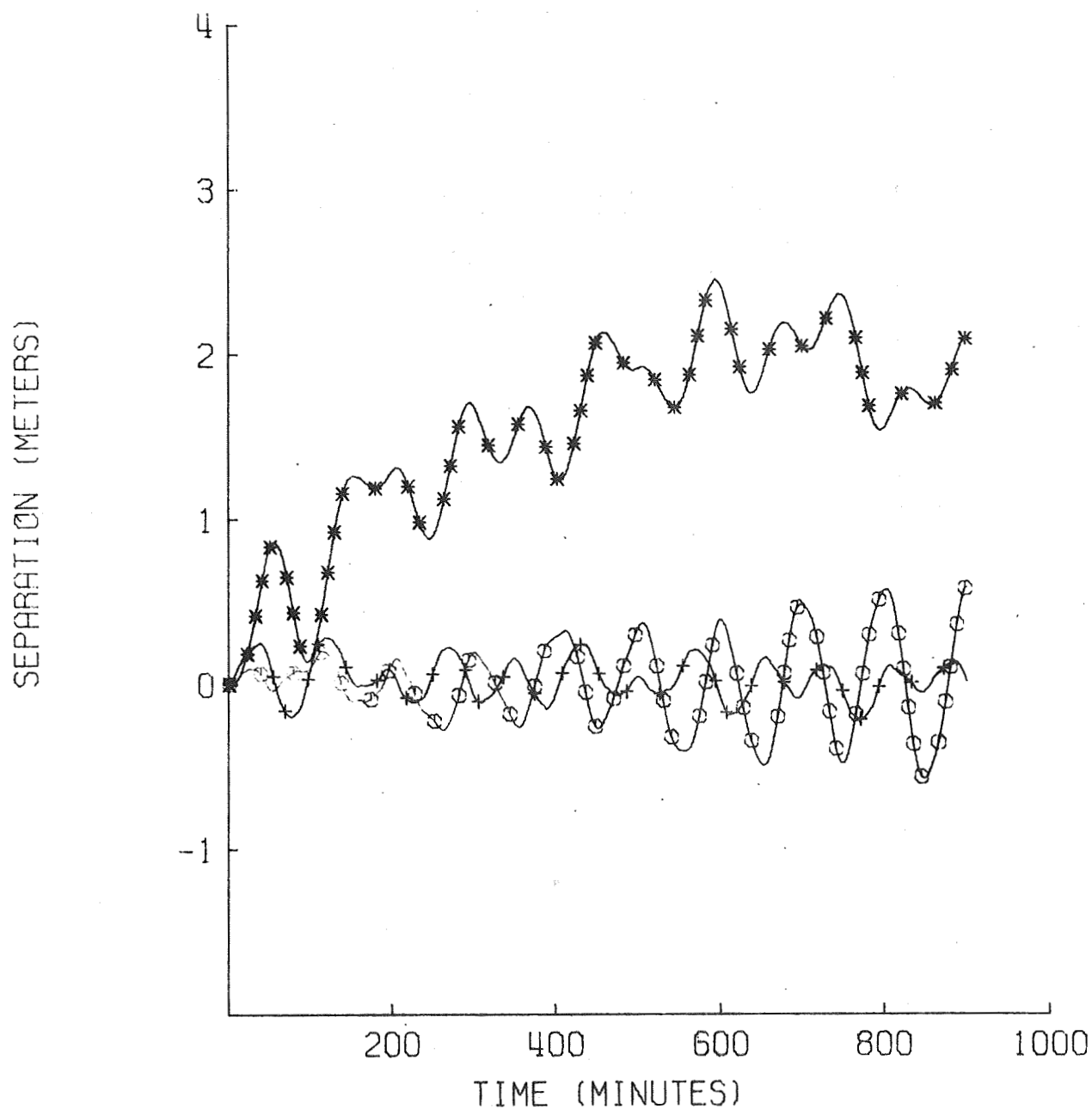
RUN FOR S(12,10) = -.0129

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

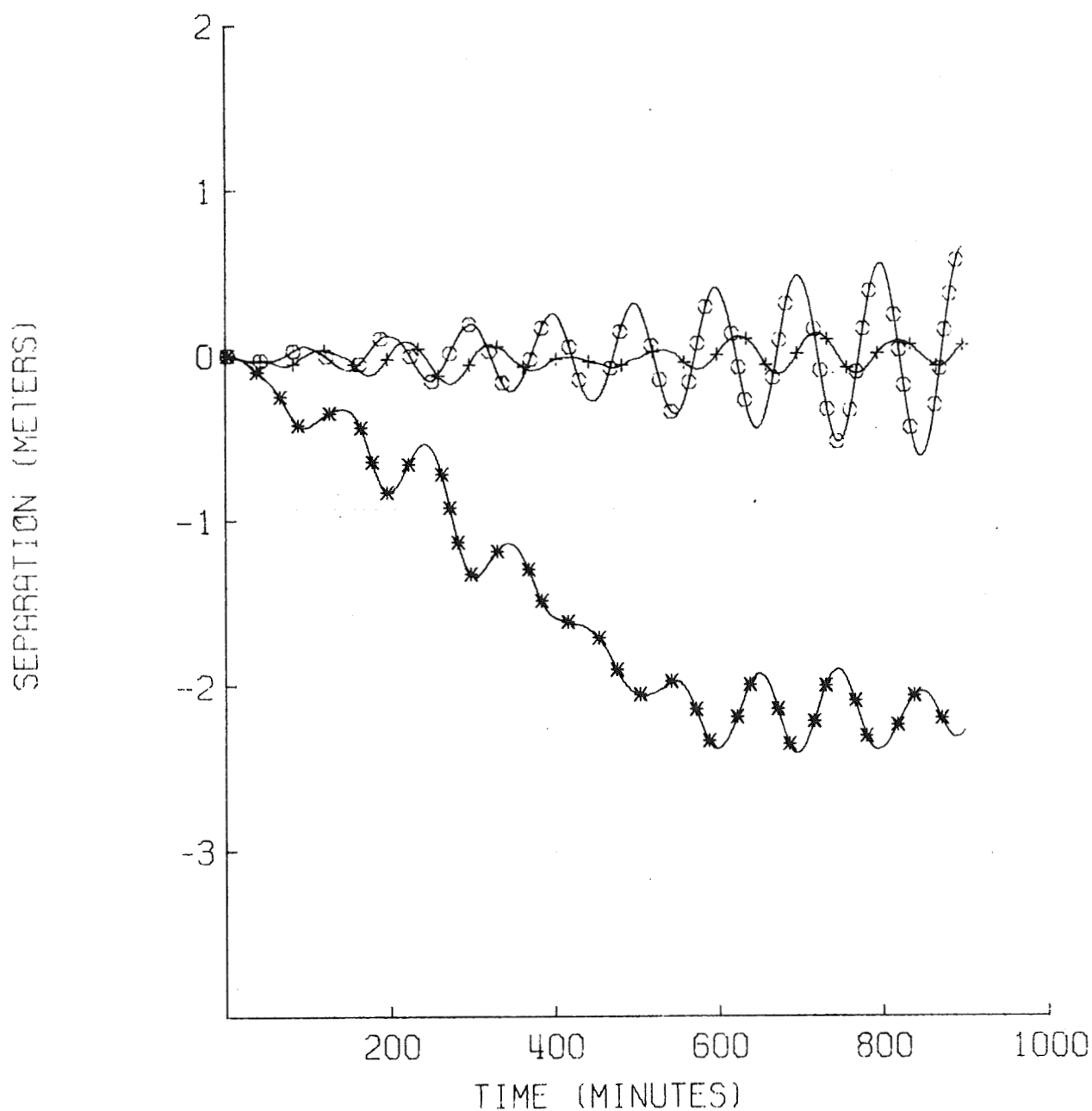
RUN FOR C(12,11) = -.0030

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

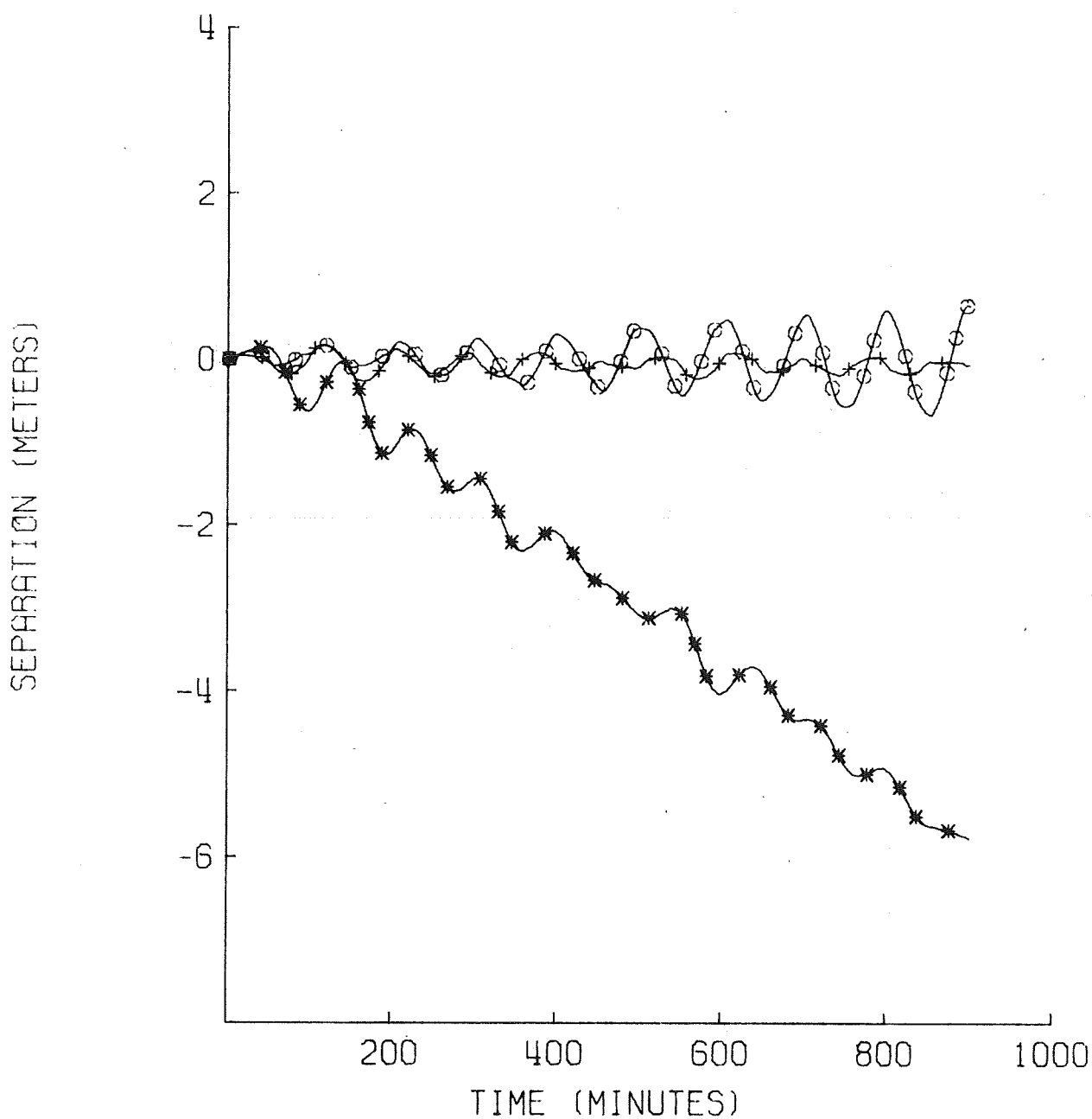
RUN FOR $S(12, 11) = .0153$

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

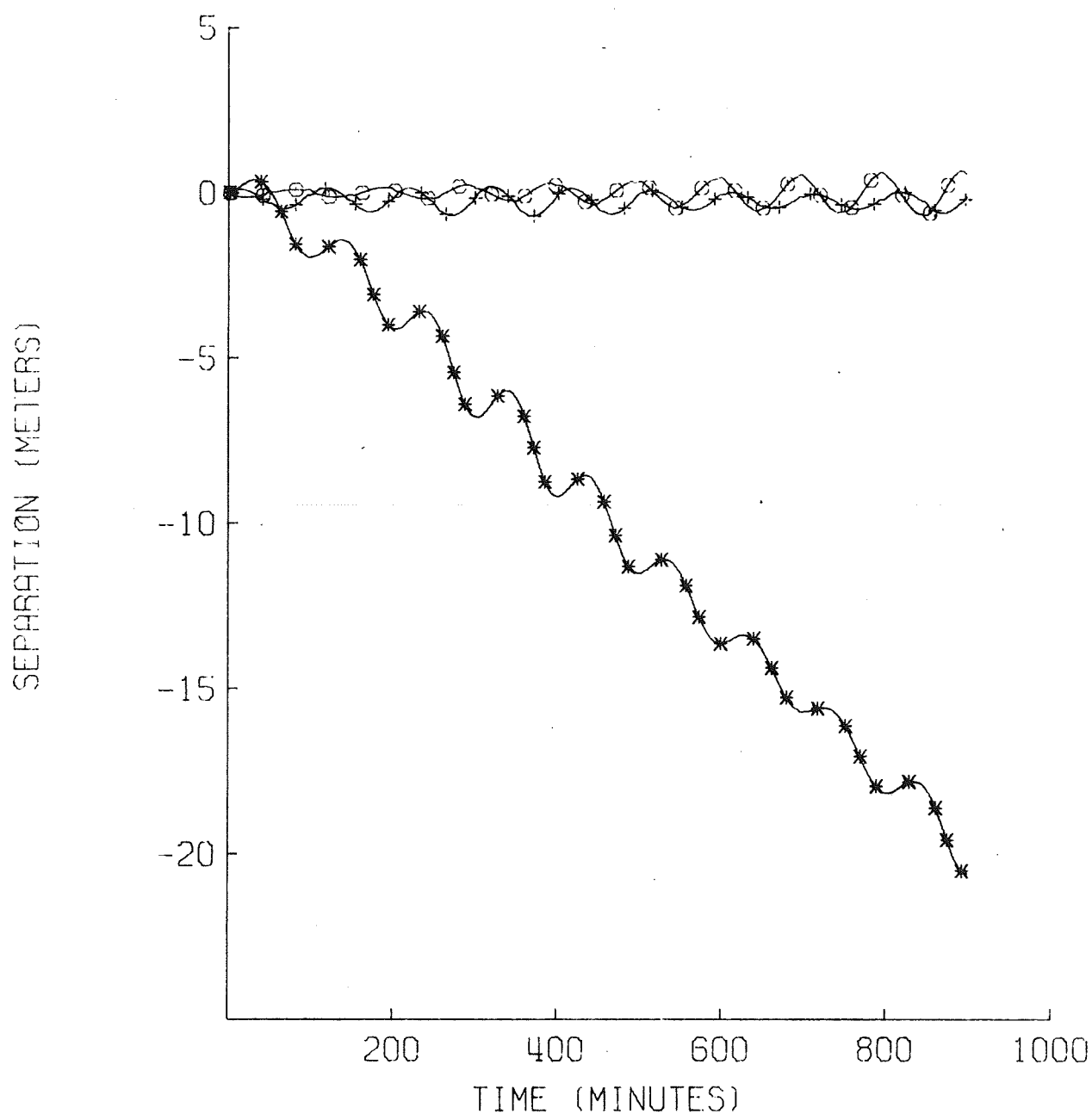
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(12,12) = .0303
 FACTOR USED IS 1.000000

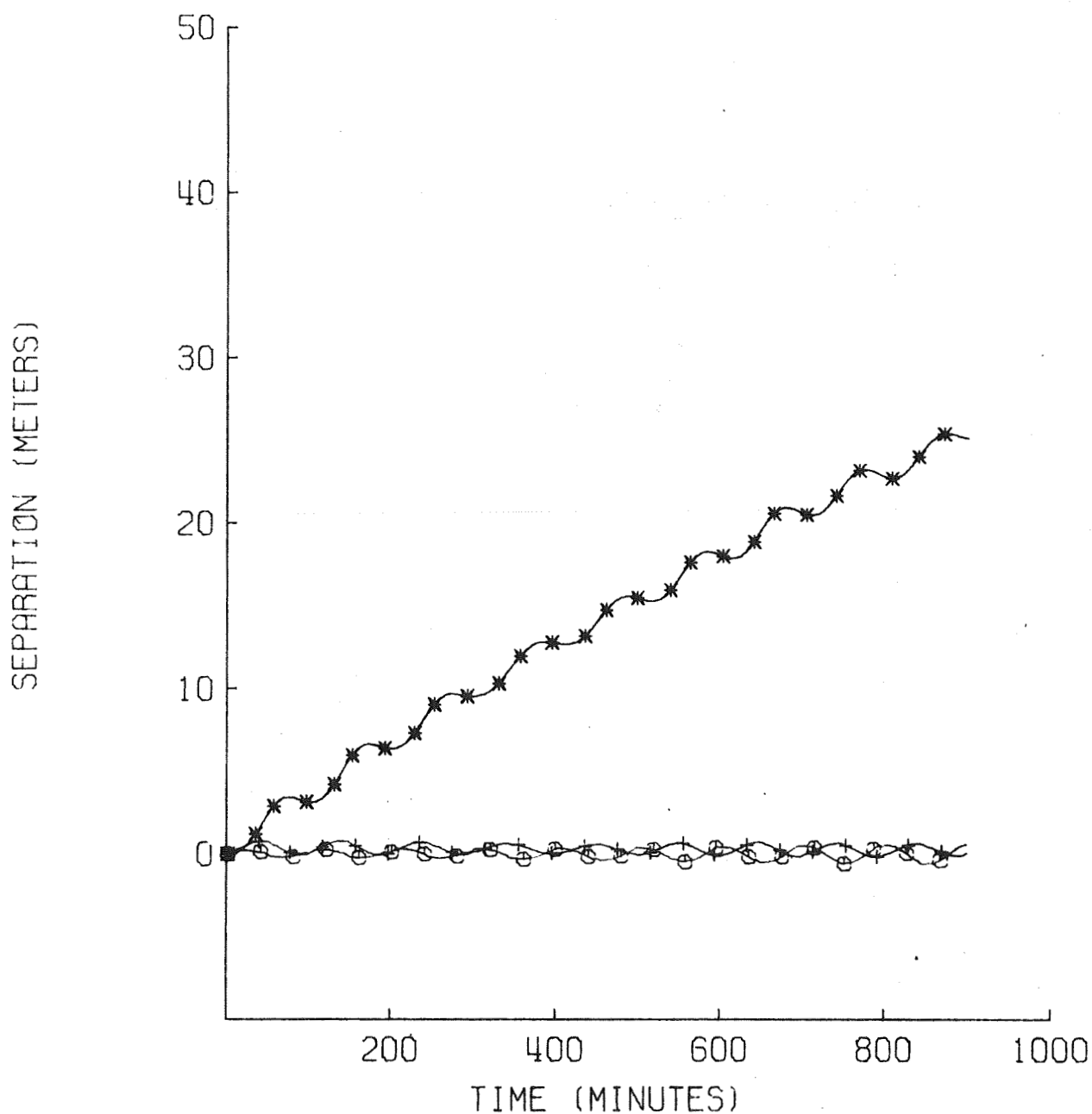
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(12, 12) = -.0332
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

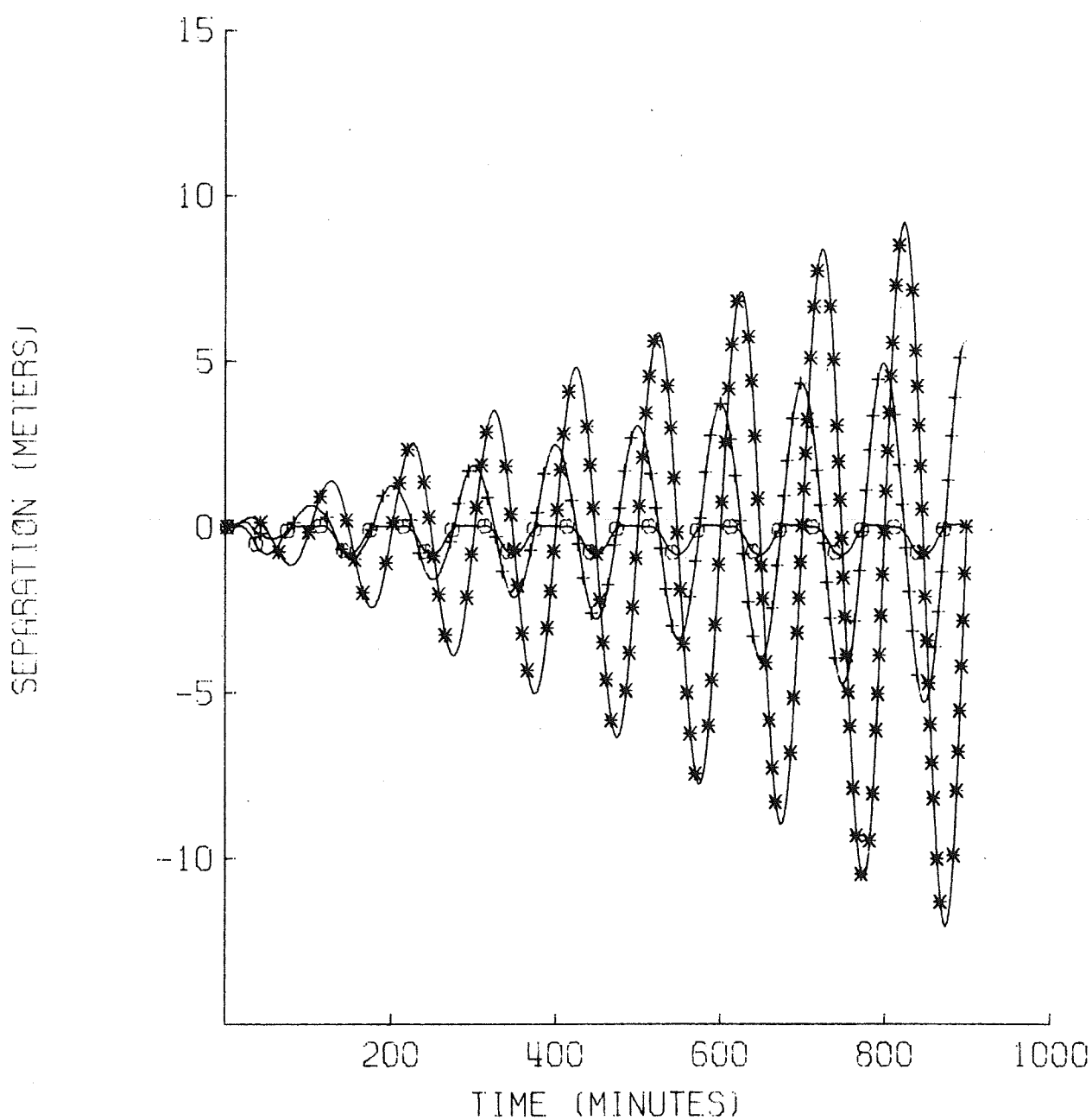
RUN FOR C(13,0) = .0425

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

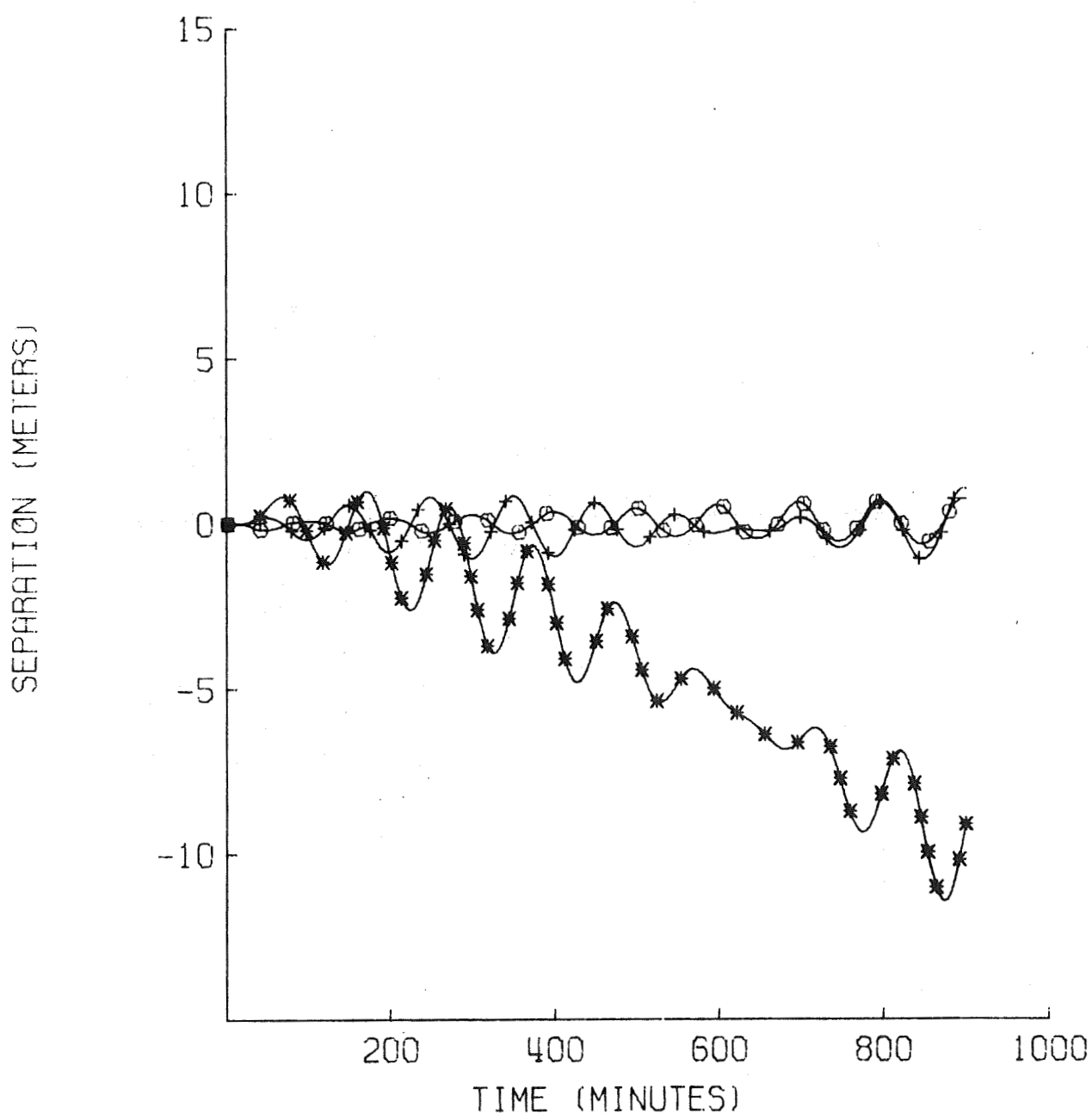
RUN FOR C(13,1) = -.0339

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

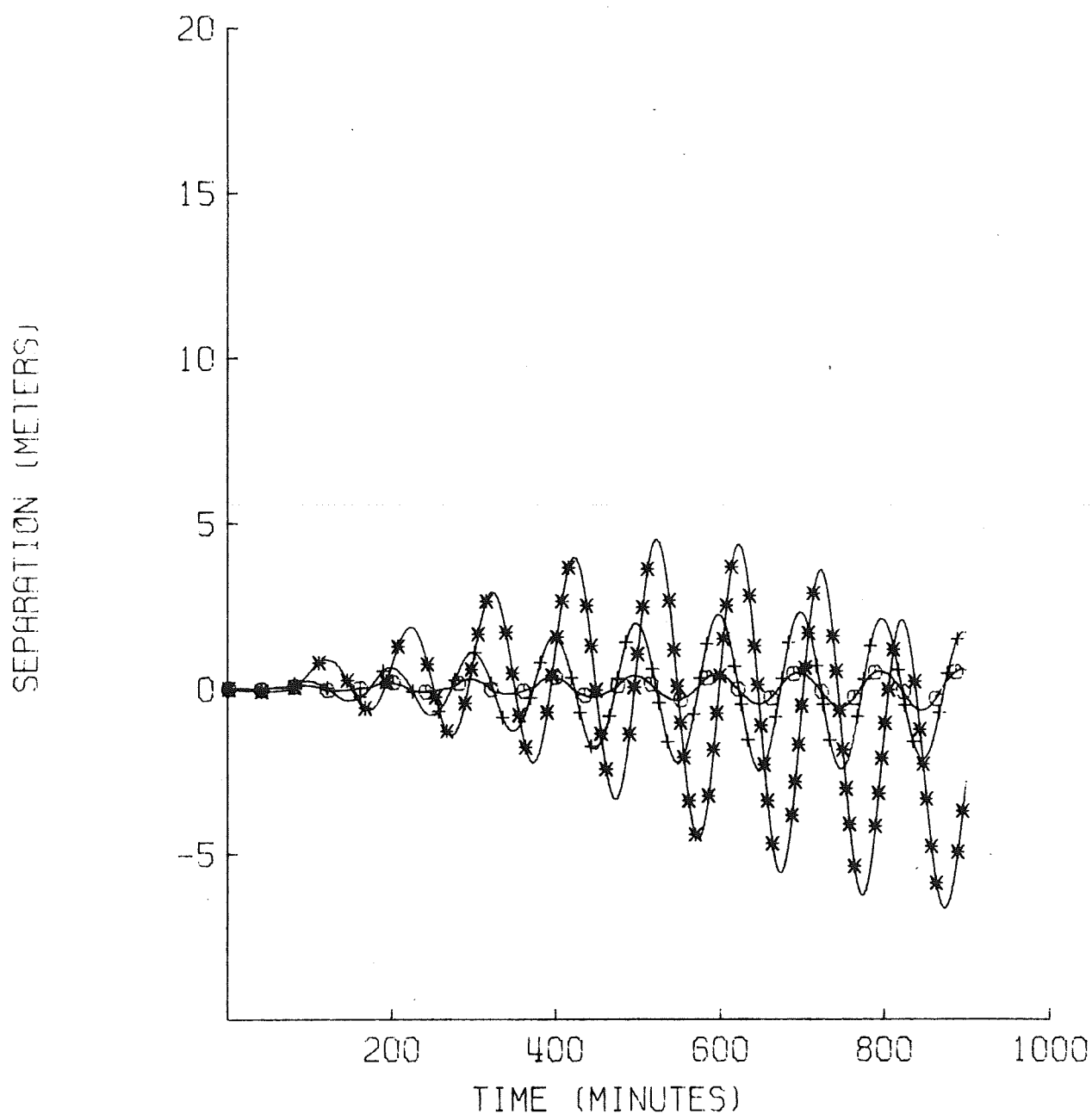
RUN FOR S(13,1) = -.0345

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

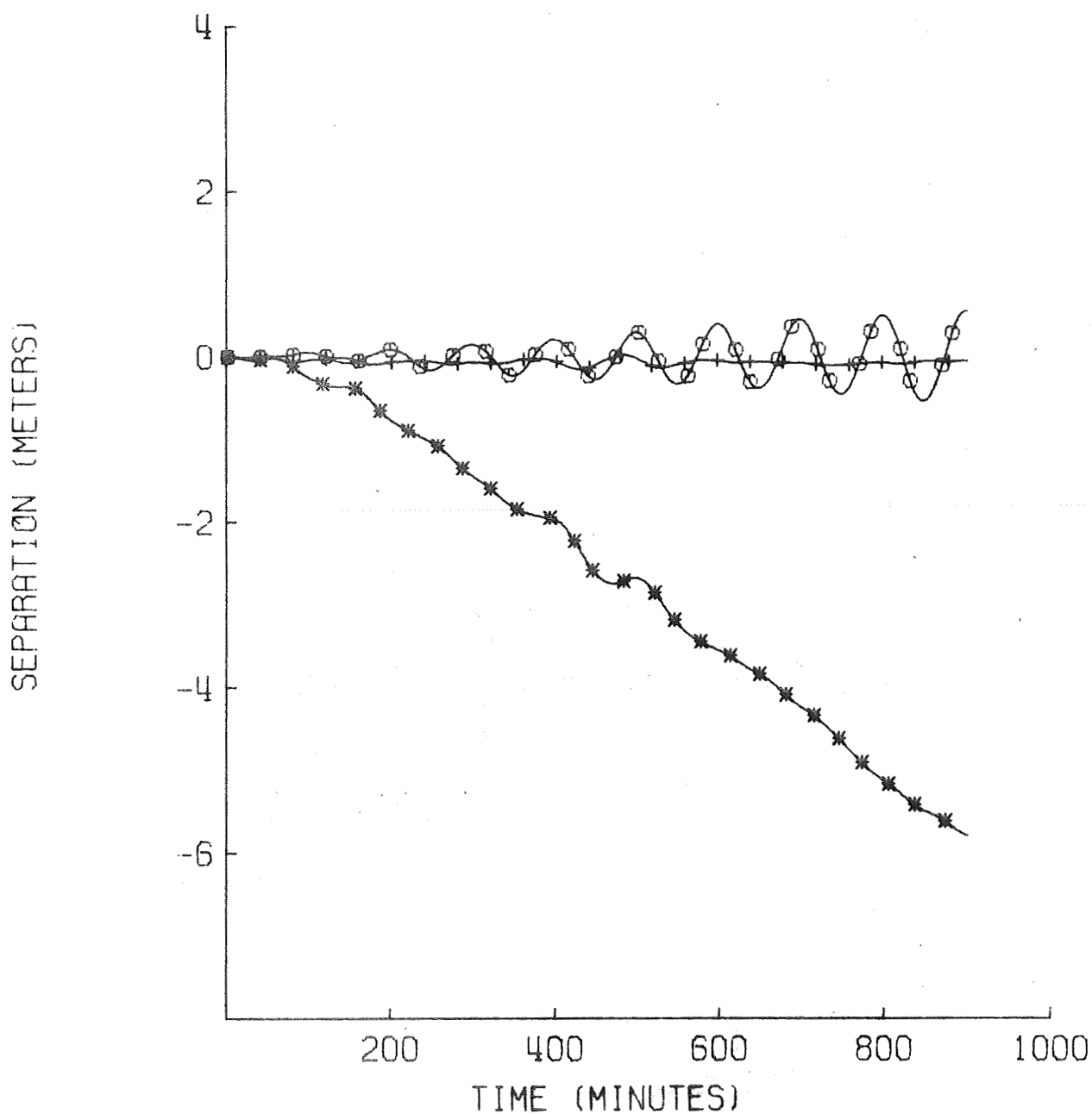
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(13,2) = .0056
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK

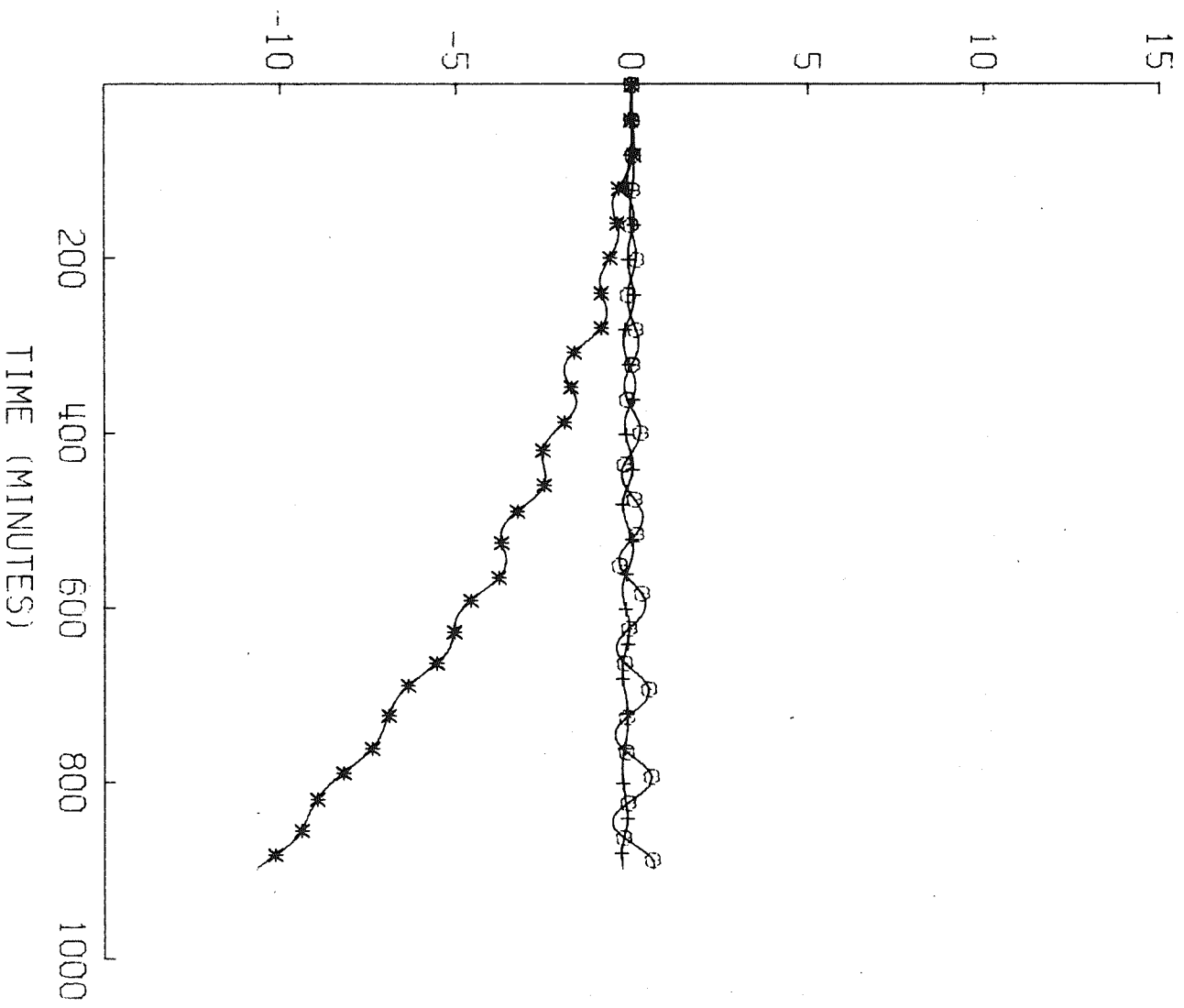


M	OMEGA	C	OMEGA	I	E	R
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535	

RUN FOR S(13,2) = -.0033

FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

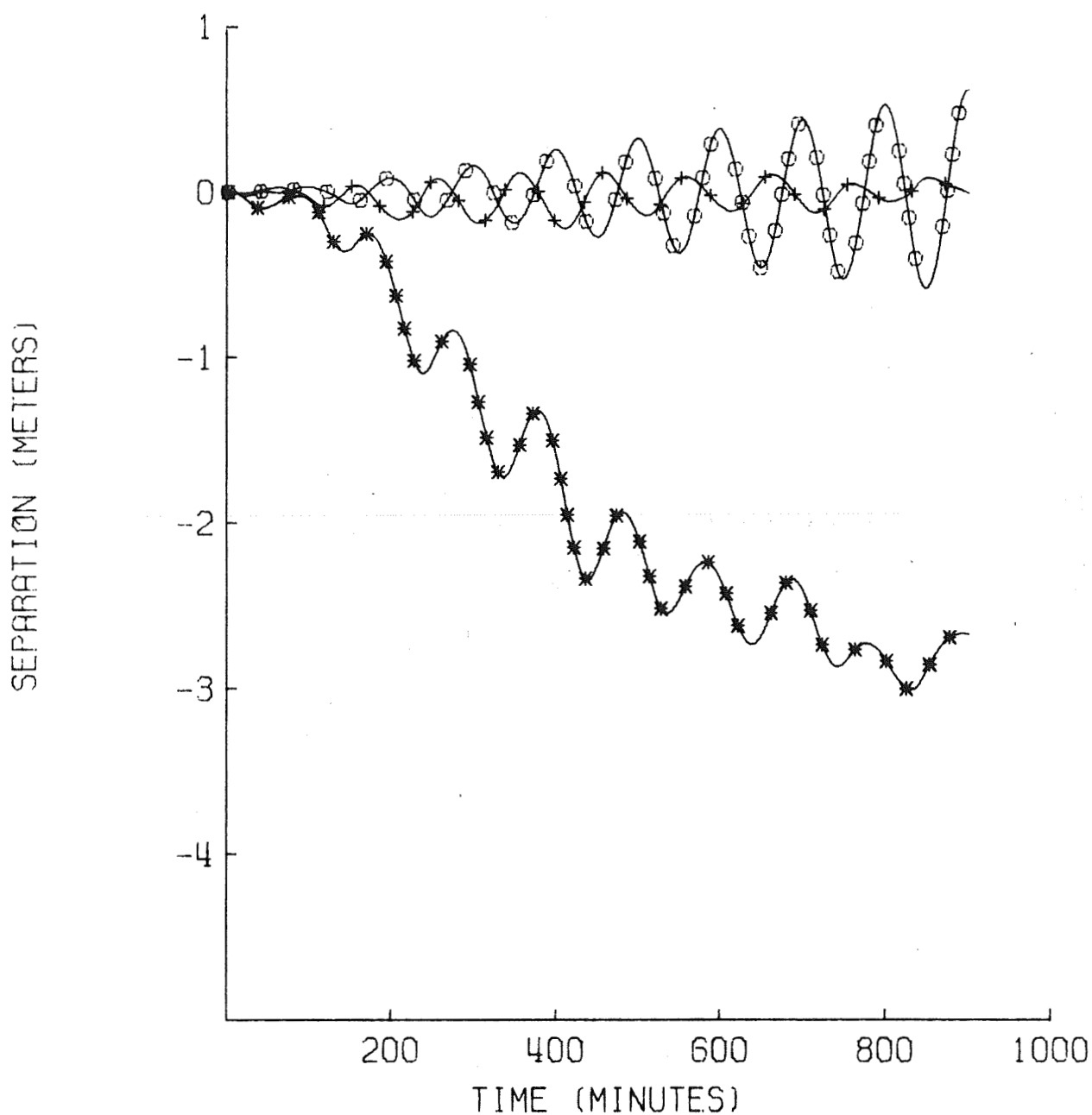
RUN FOR C(13,3) = -.0029

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

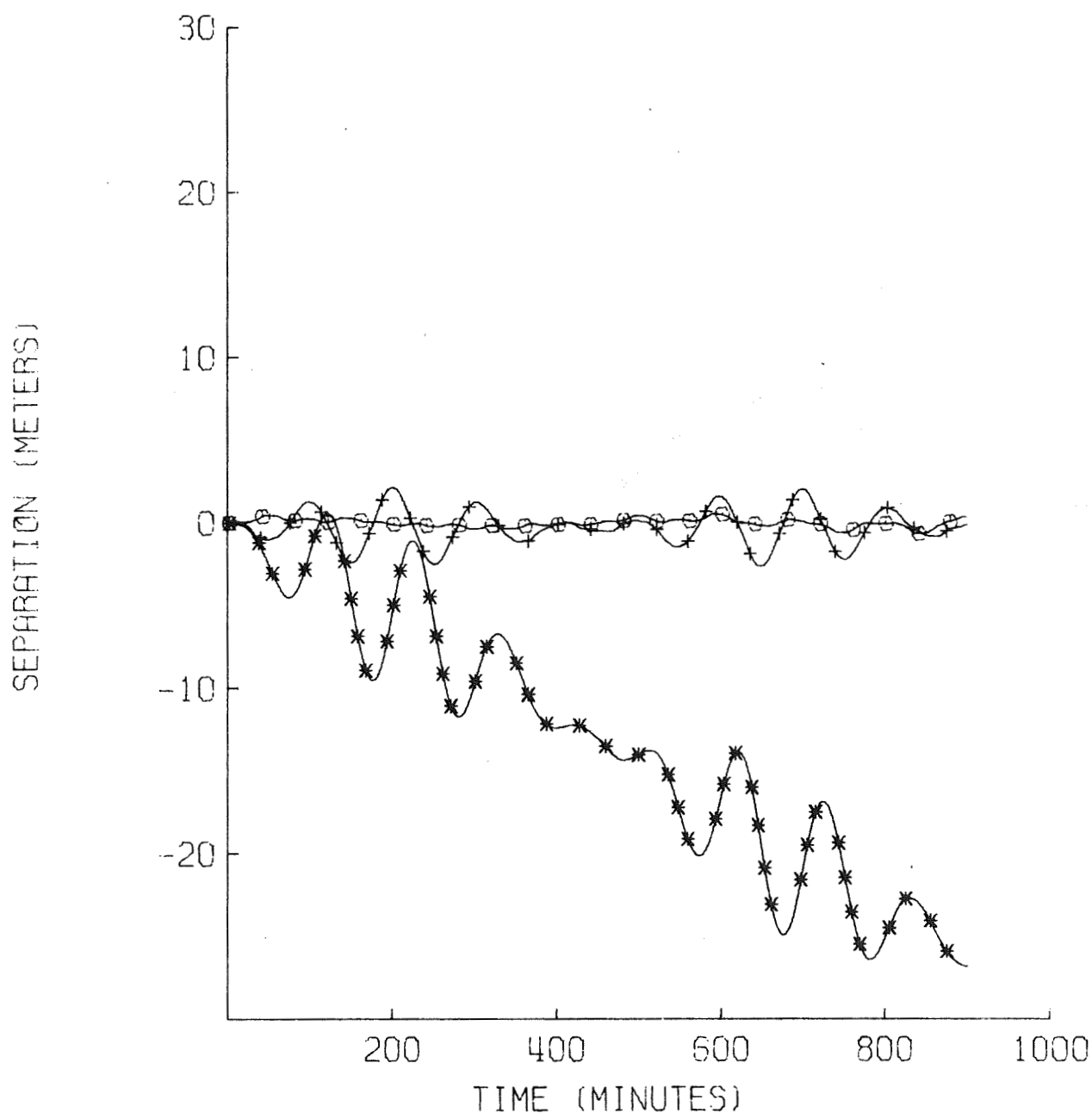
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7135.6535

RUN FOR S(13.3) = .0770
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

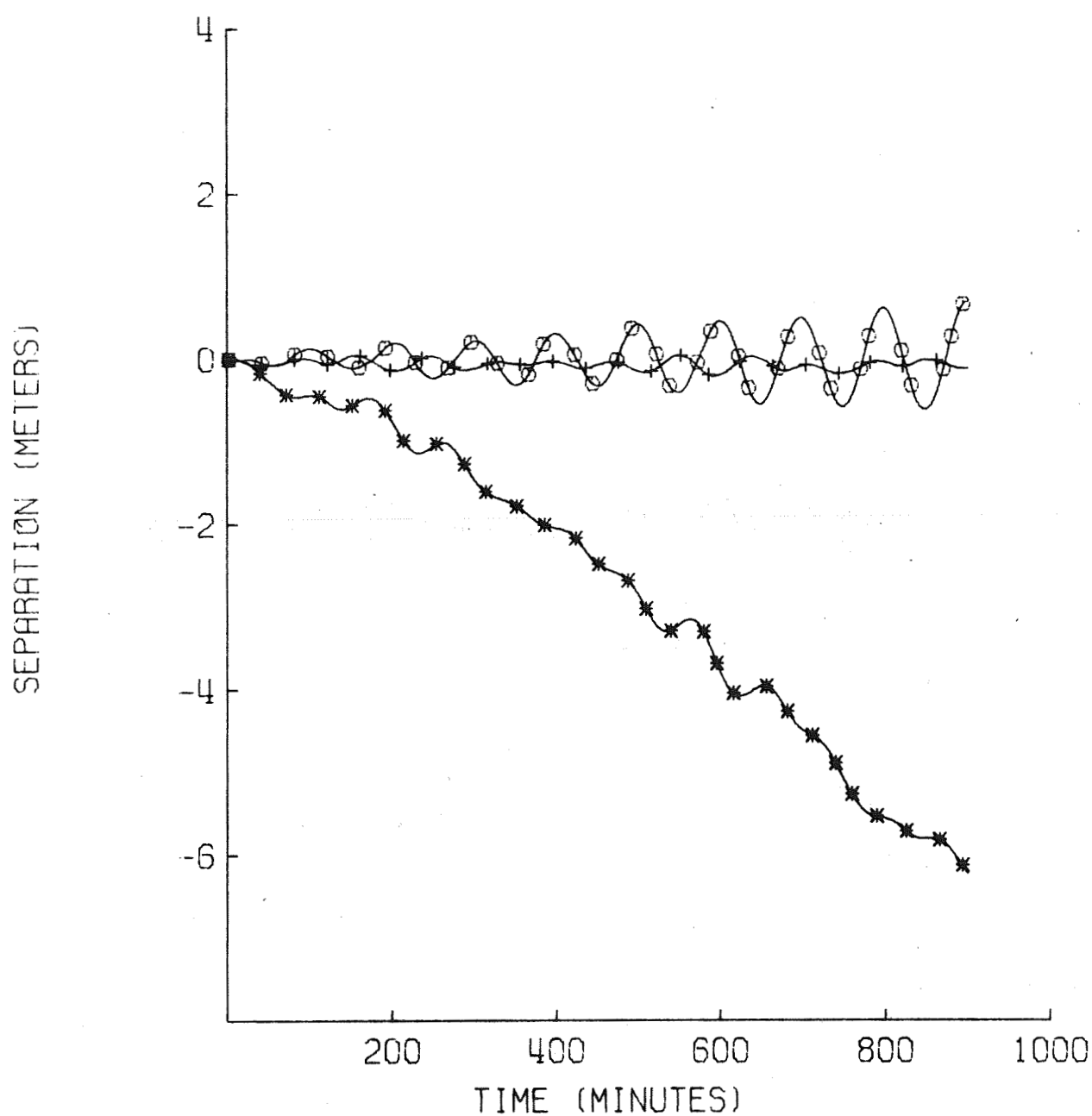
RUN FOR C(13.4) = .0073

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

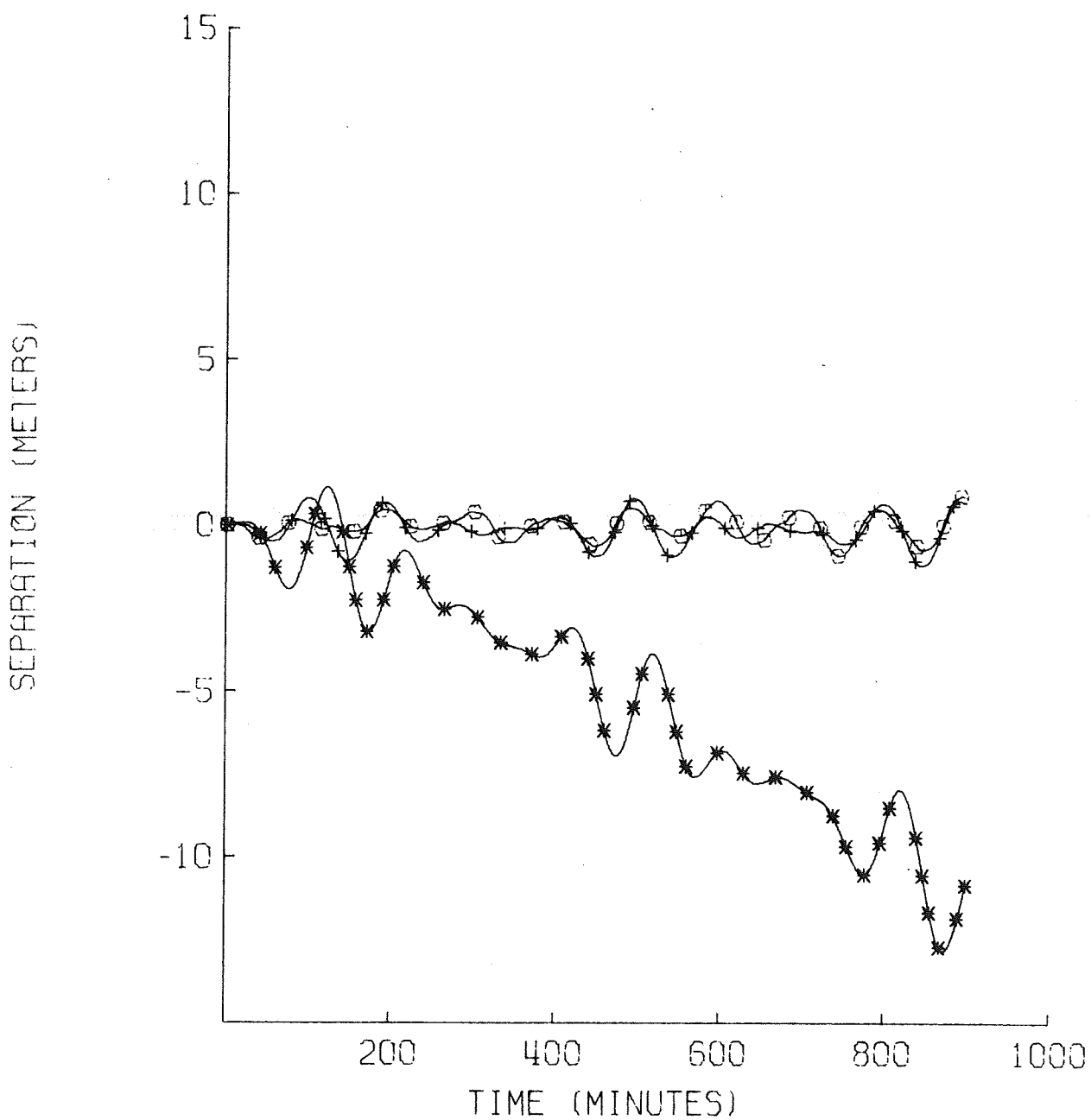
RUN FOR S(13,4) = -.0420

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

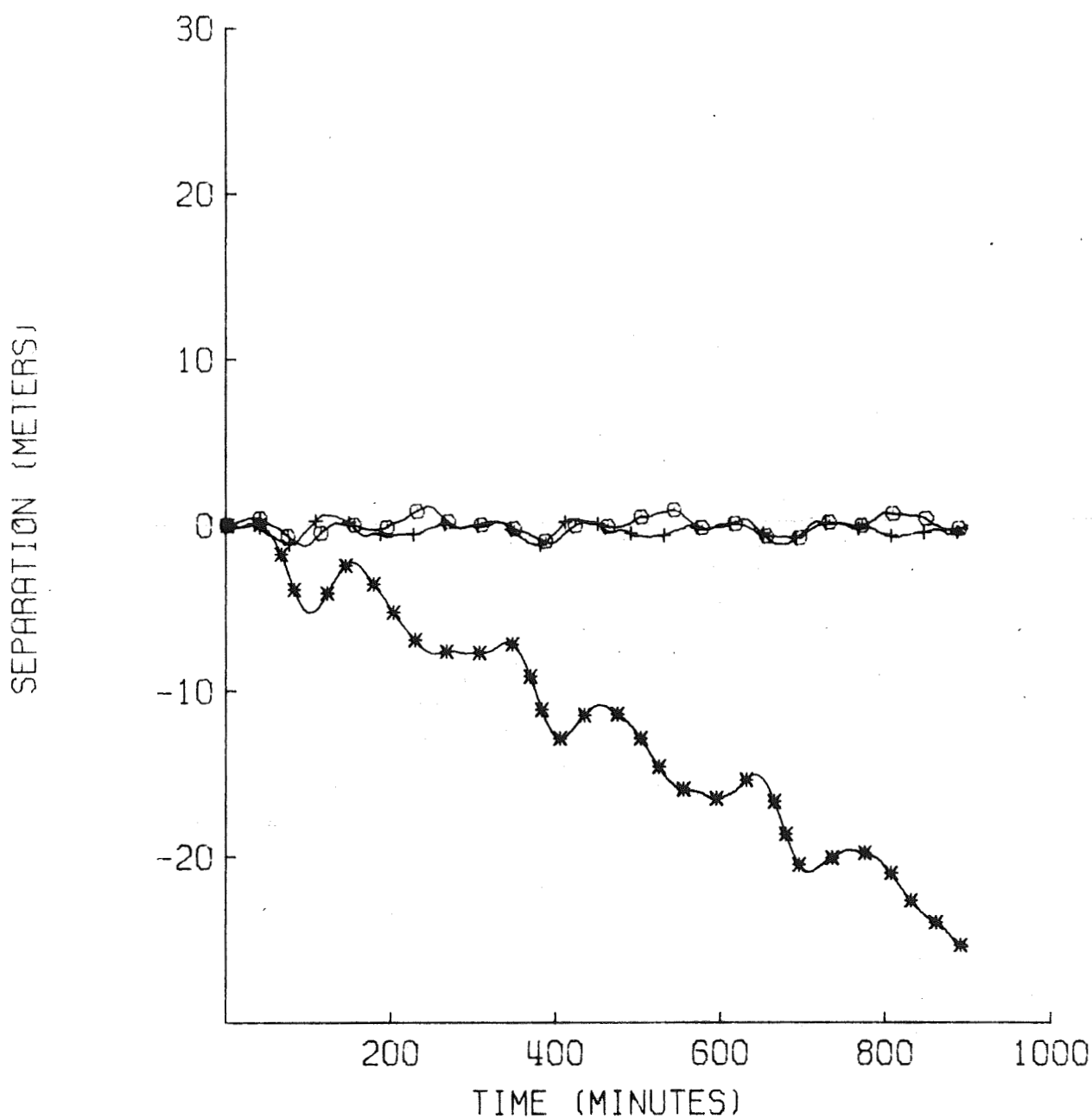
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(13,5) = .0778
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

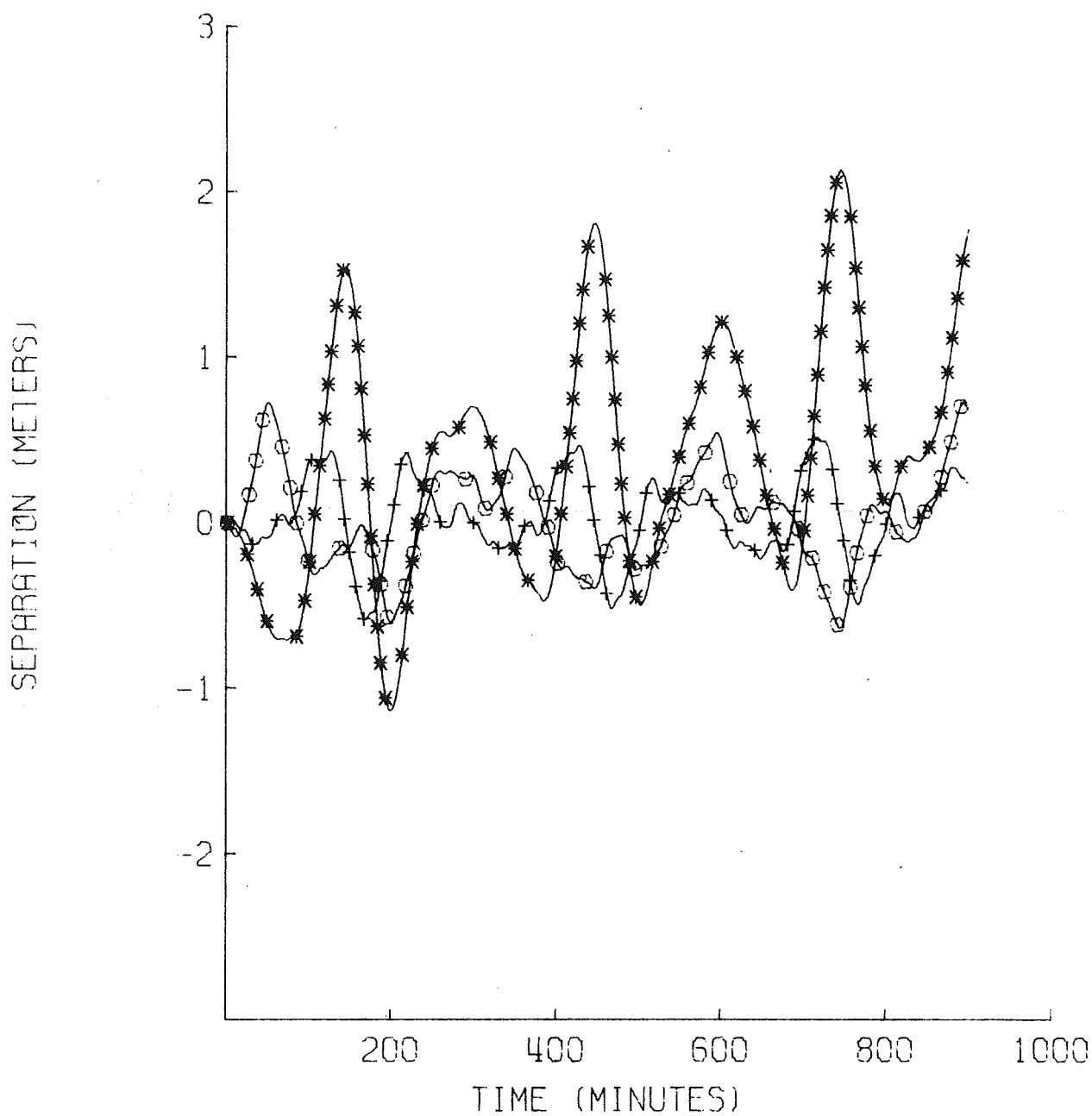
RUN FOR S(13,5) = -.0457

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

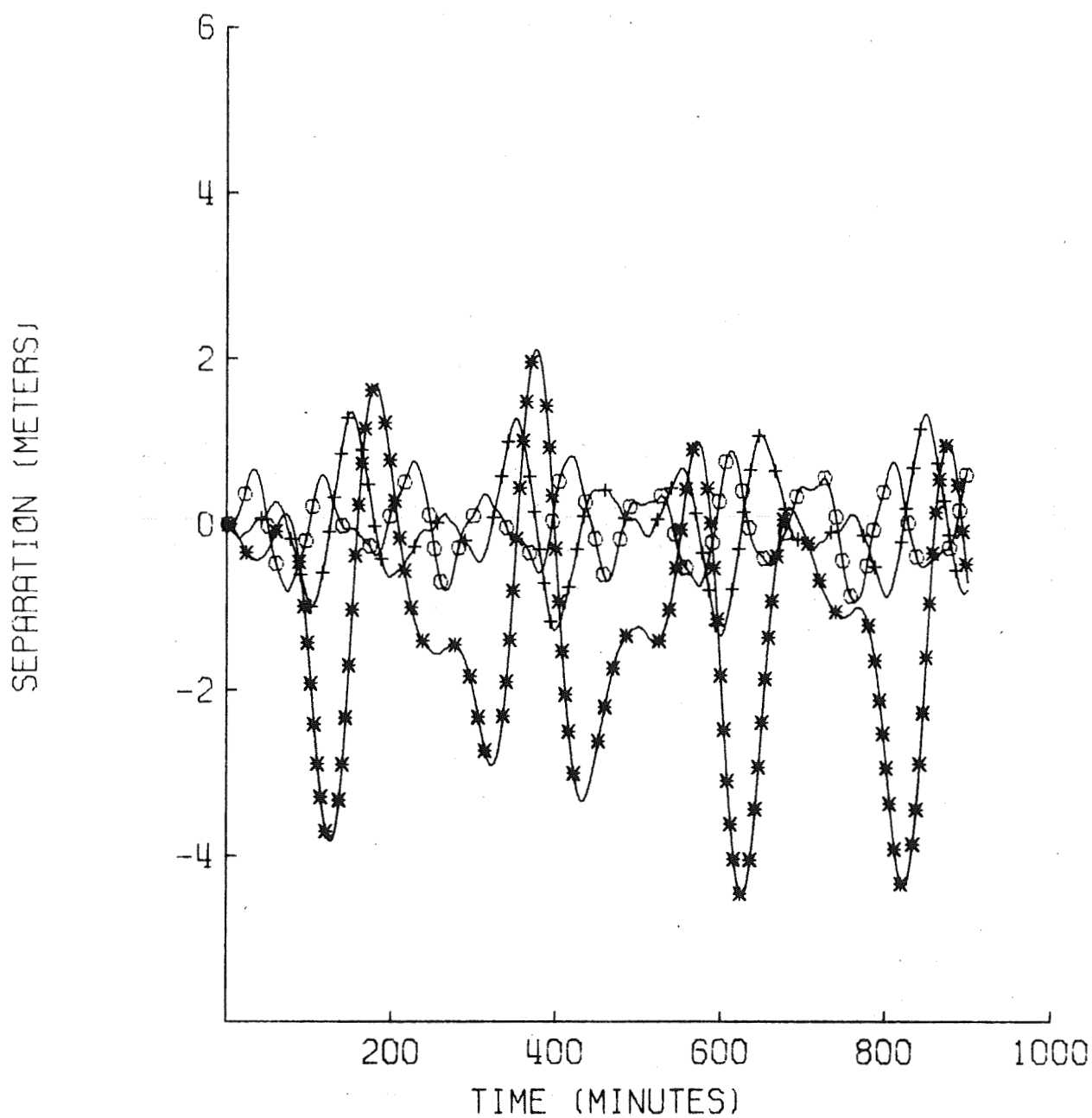
RUN FOR C(13.6) = -.0559

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

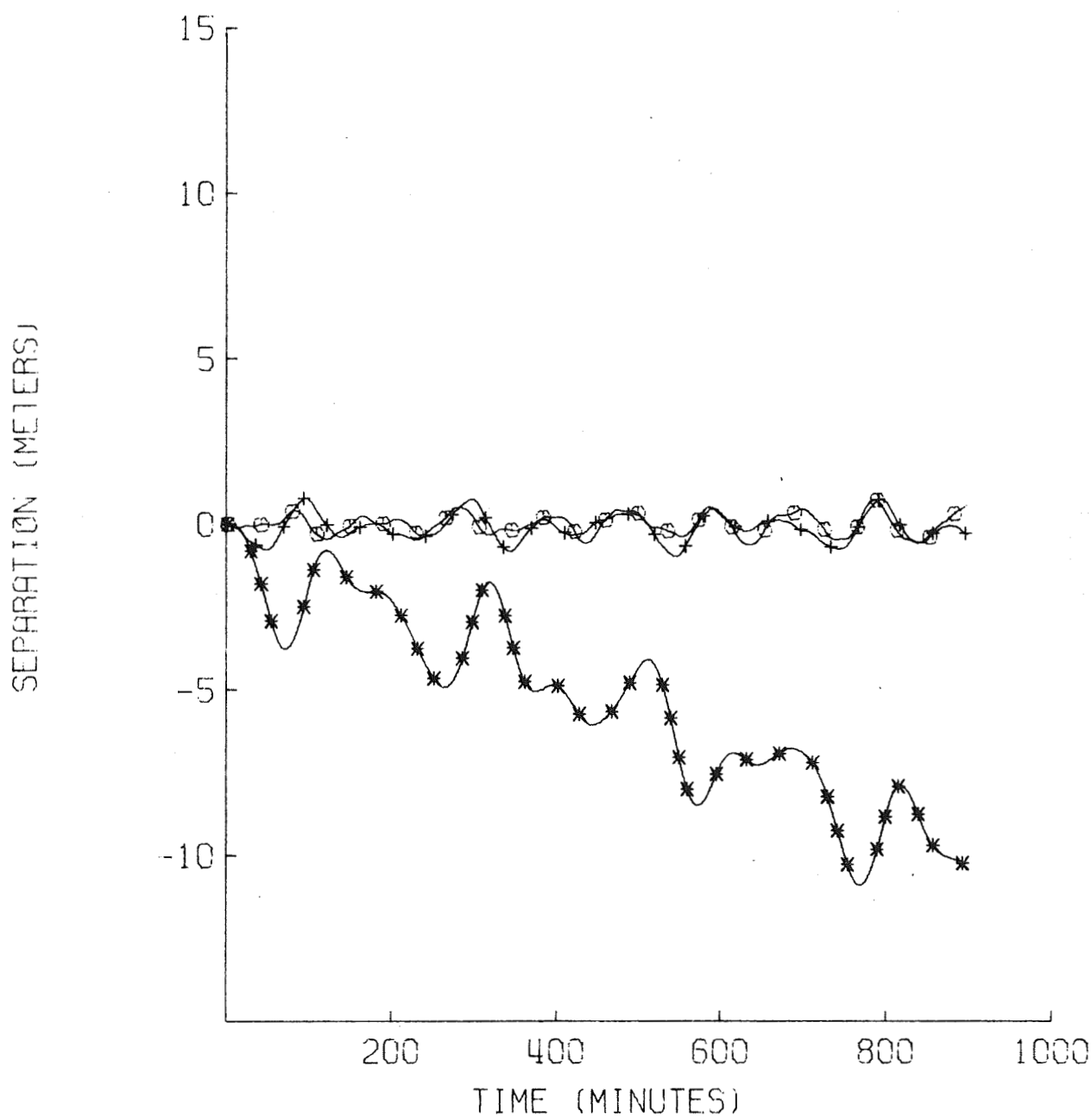
RUN FOR S(13.6) = .0419

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

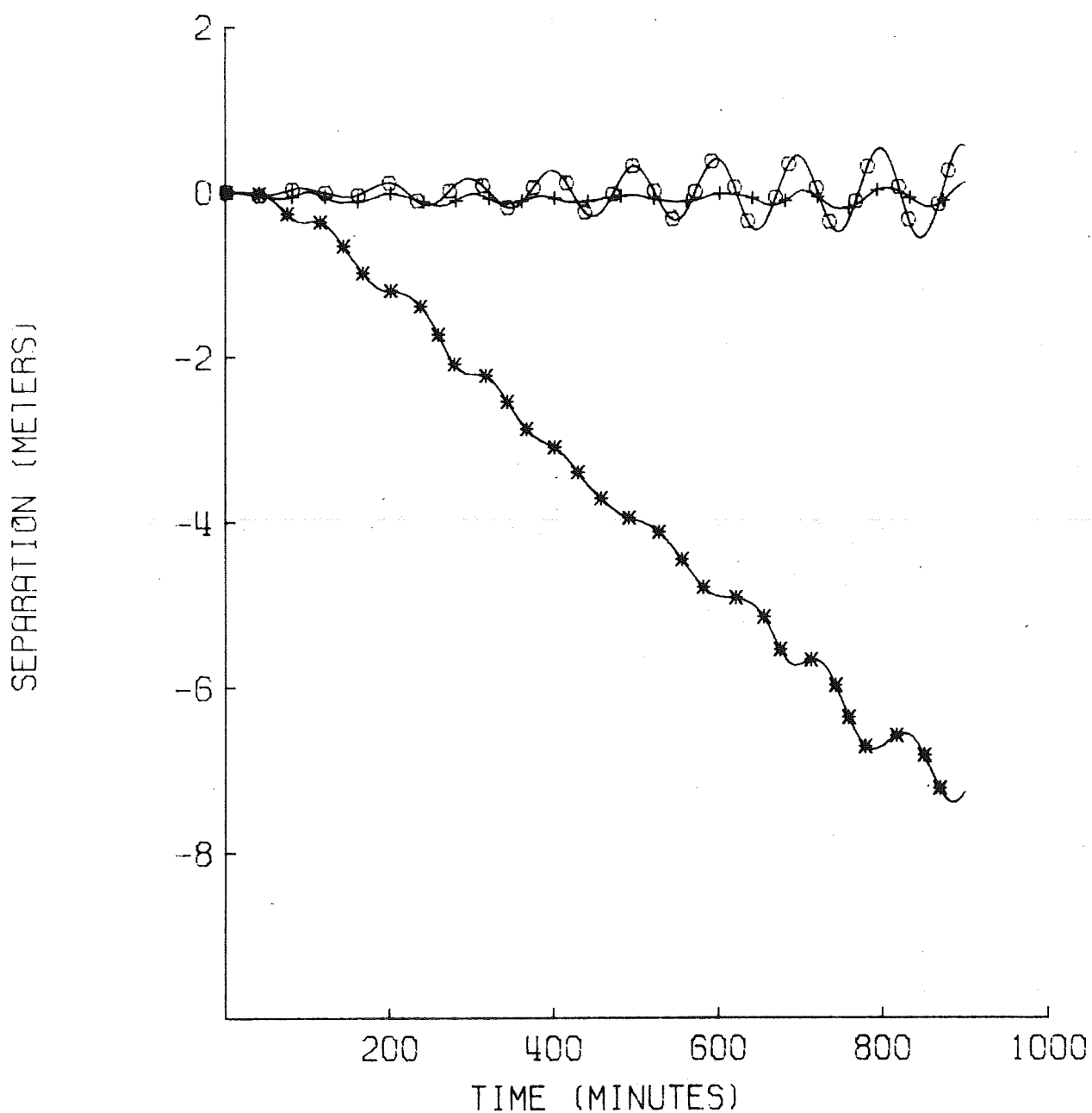
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C	OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535	

RUN FOR C(13,7) = -.0014
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

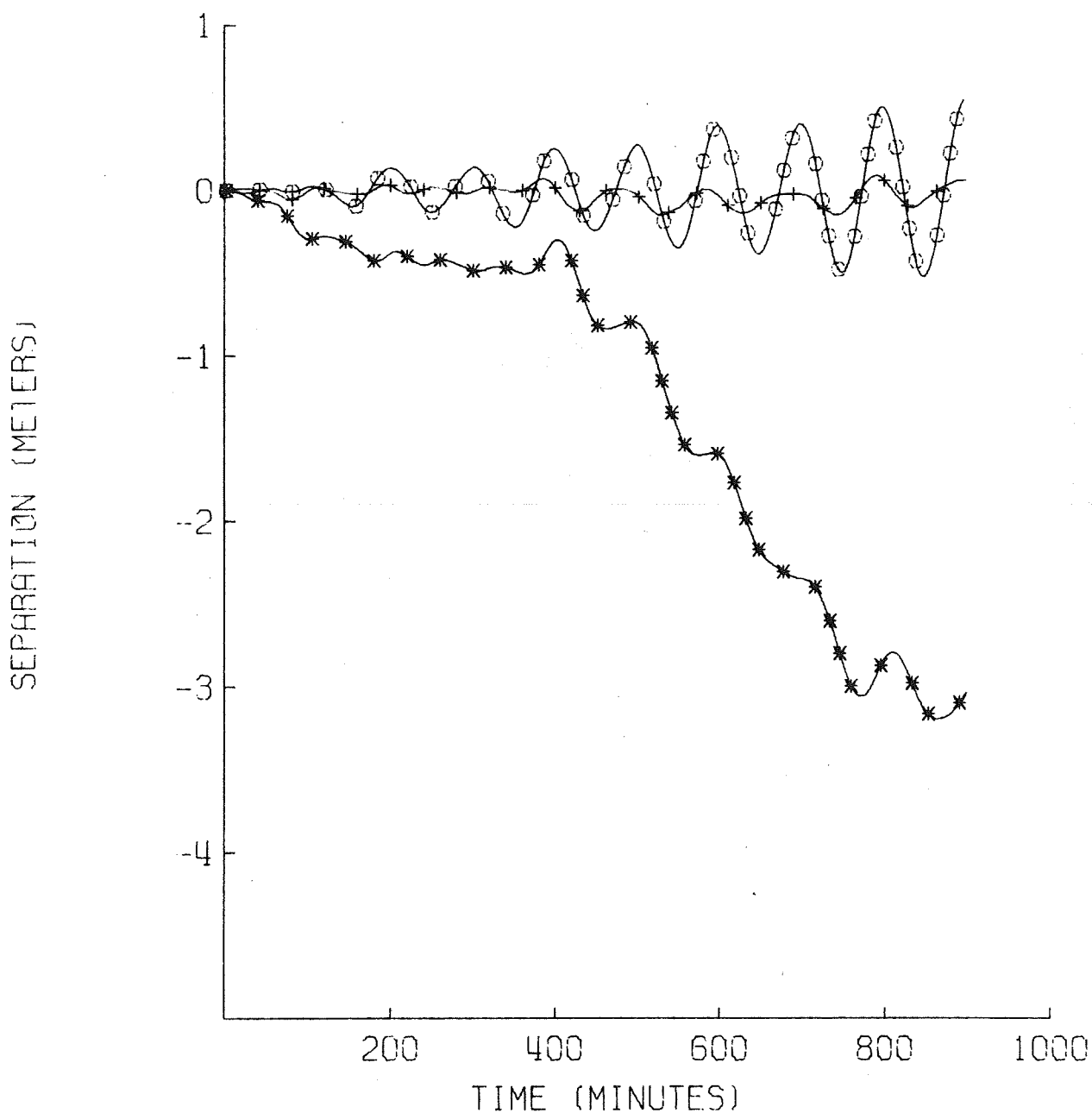
RUN FOR S(13,7) = .0026

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

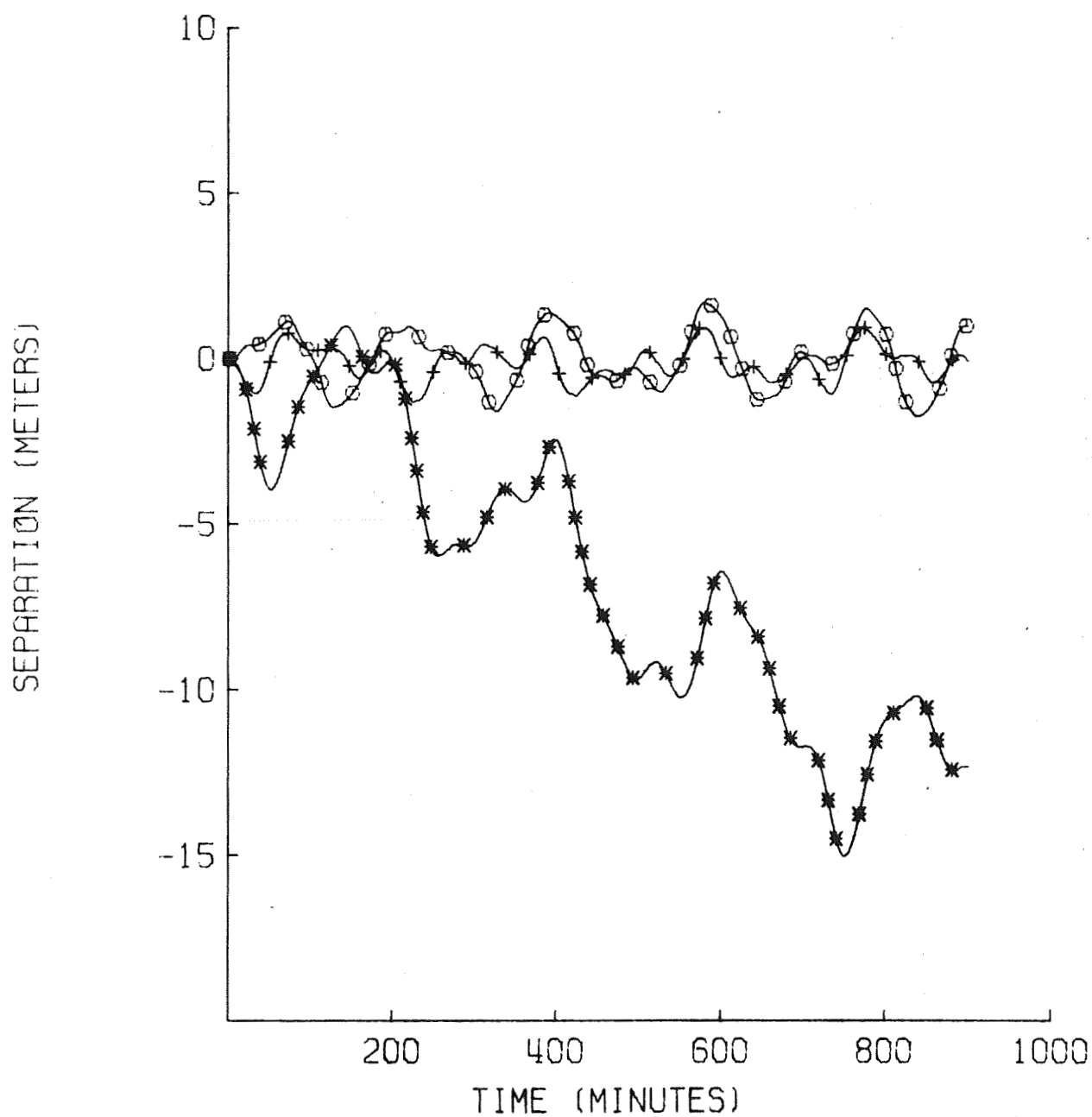
RUN FOR C(13,8) = -.0717

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

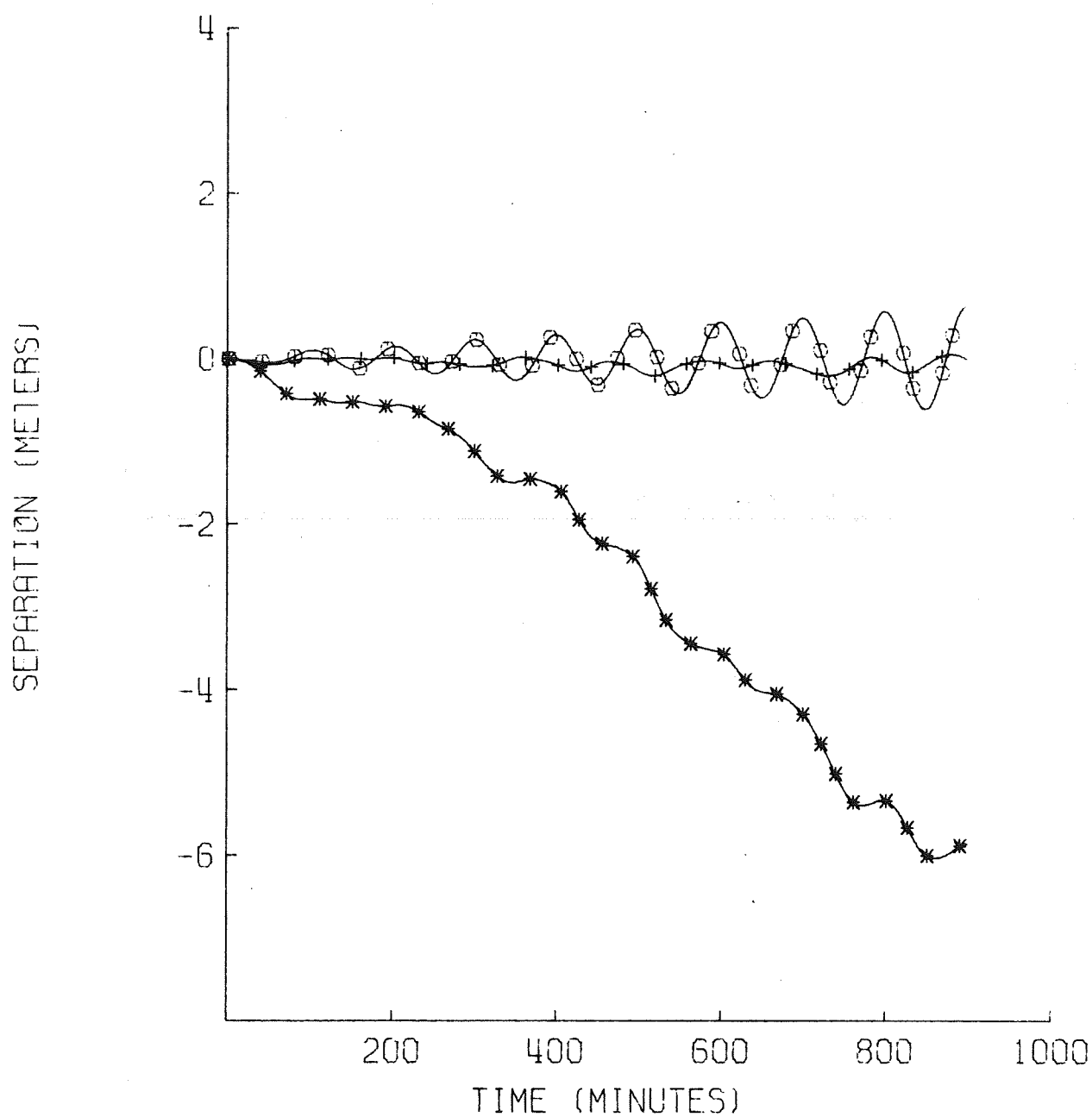
RUN FOR S(13.8) = .0001

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

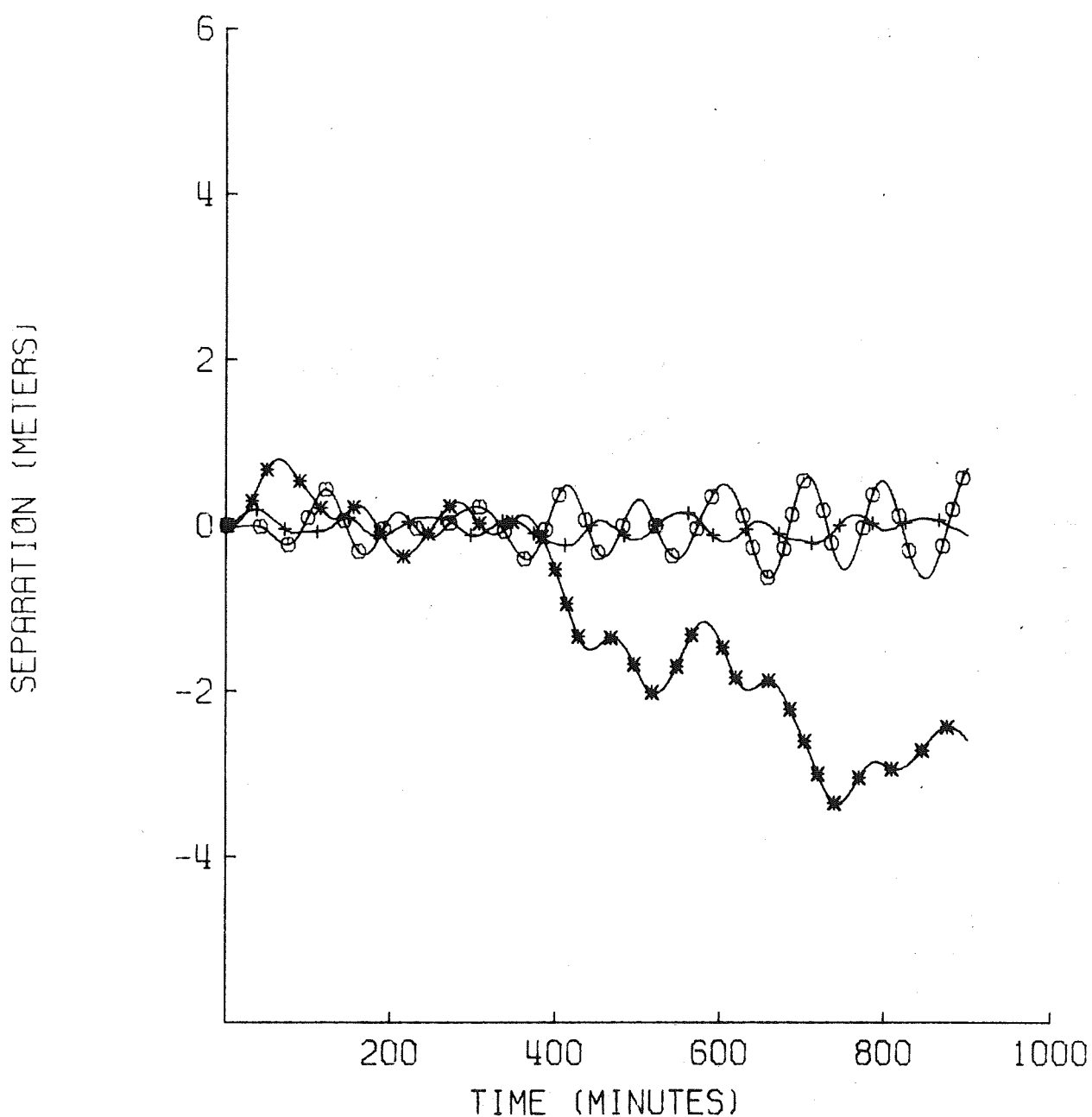
(⊖) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(13,9) = -.0093
 FACTOR USED IS 1.000000

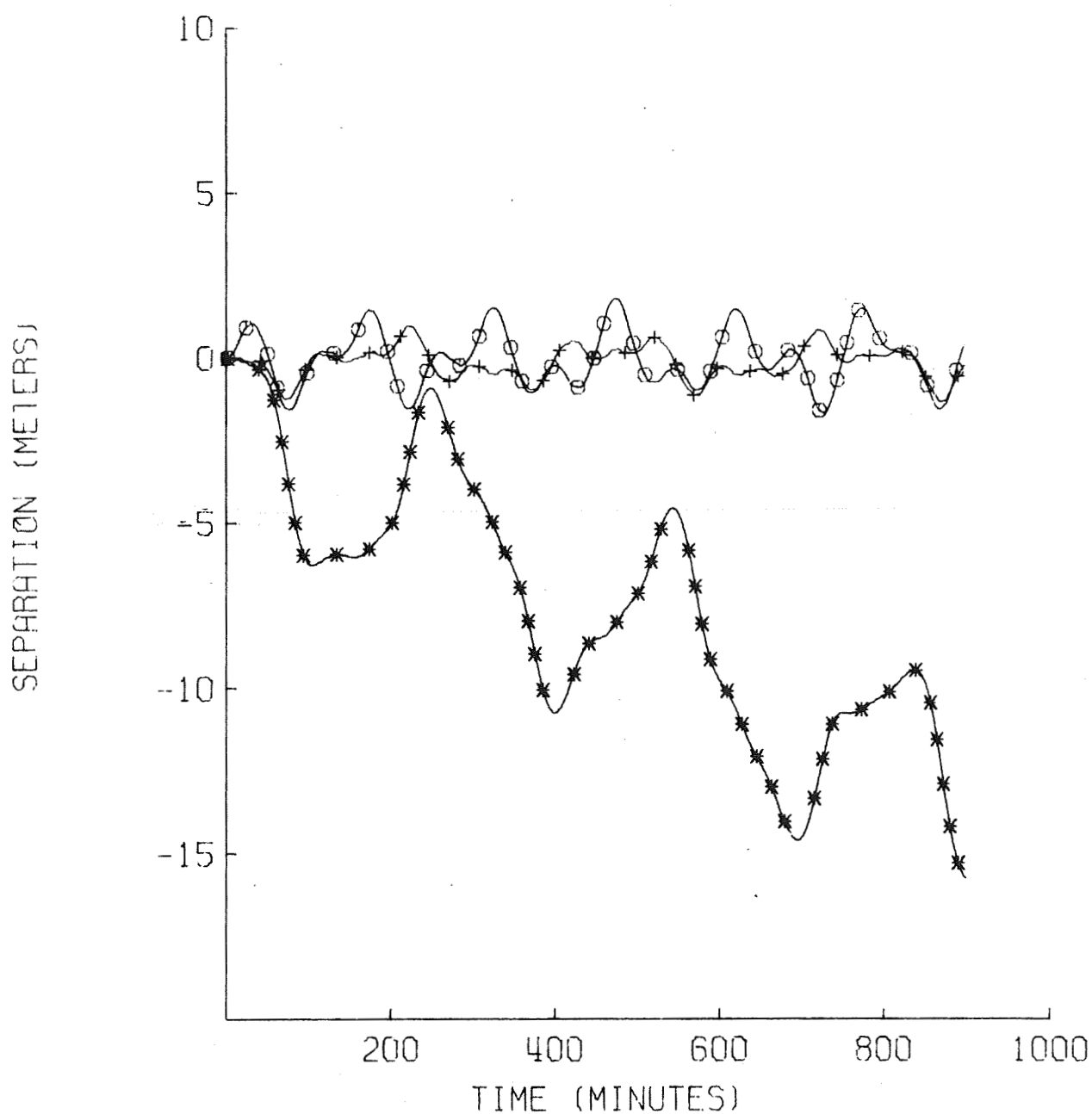
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(13.9) = .0653
 FACTOR USED IS 1.000000

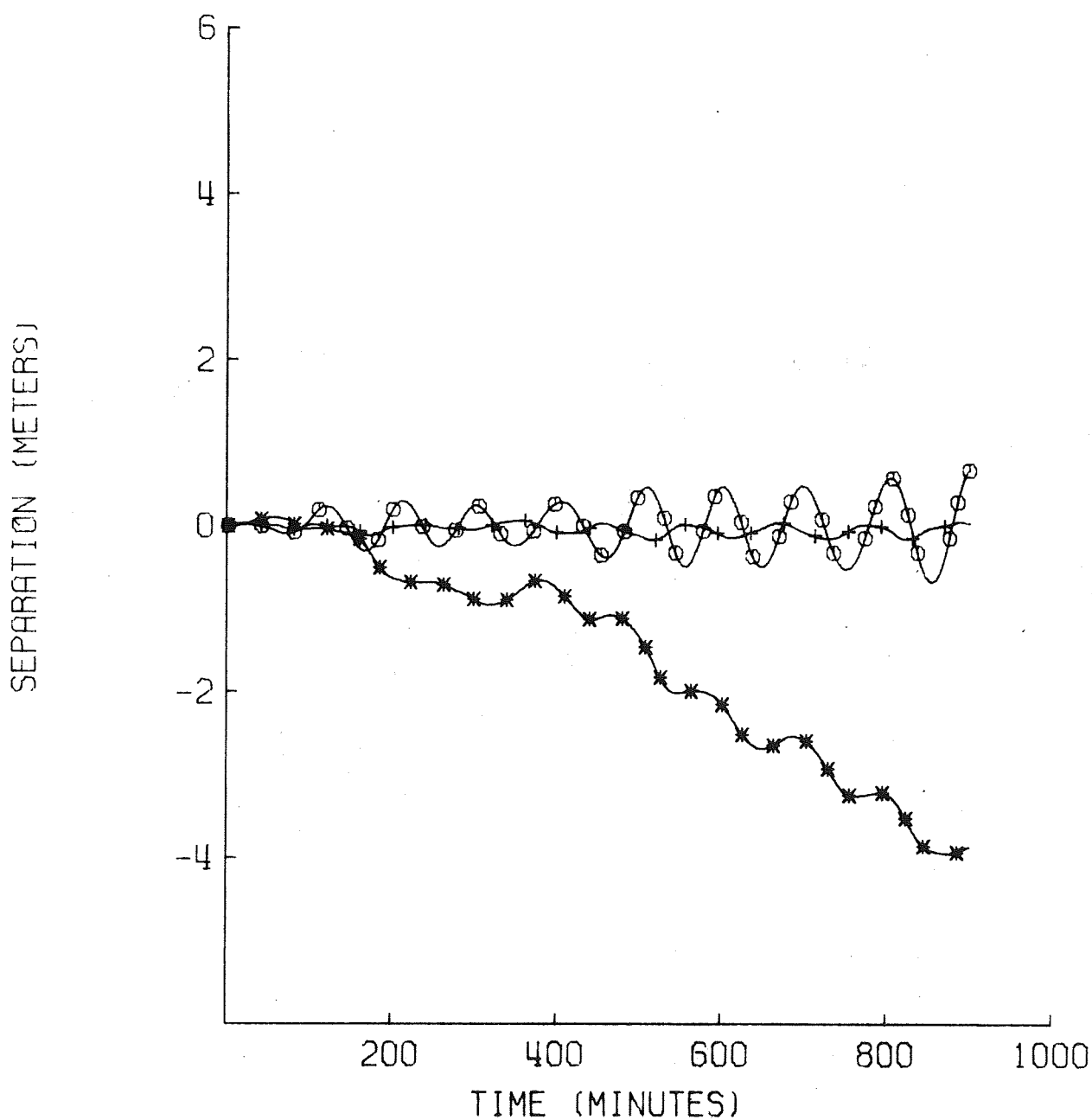
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(13,10) = .0052
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

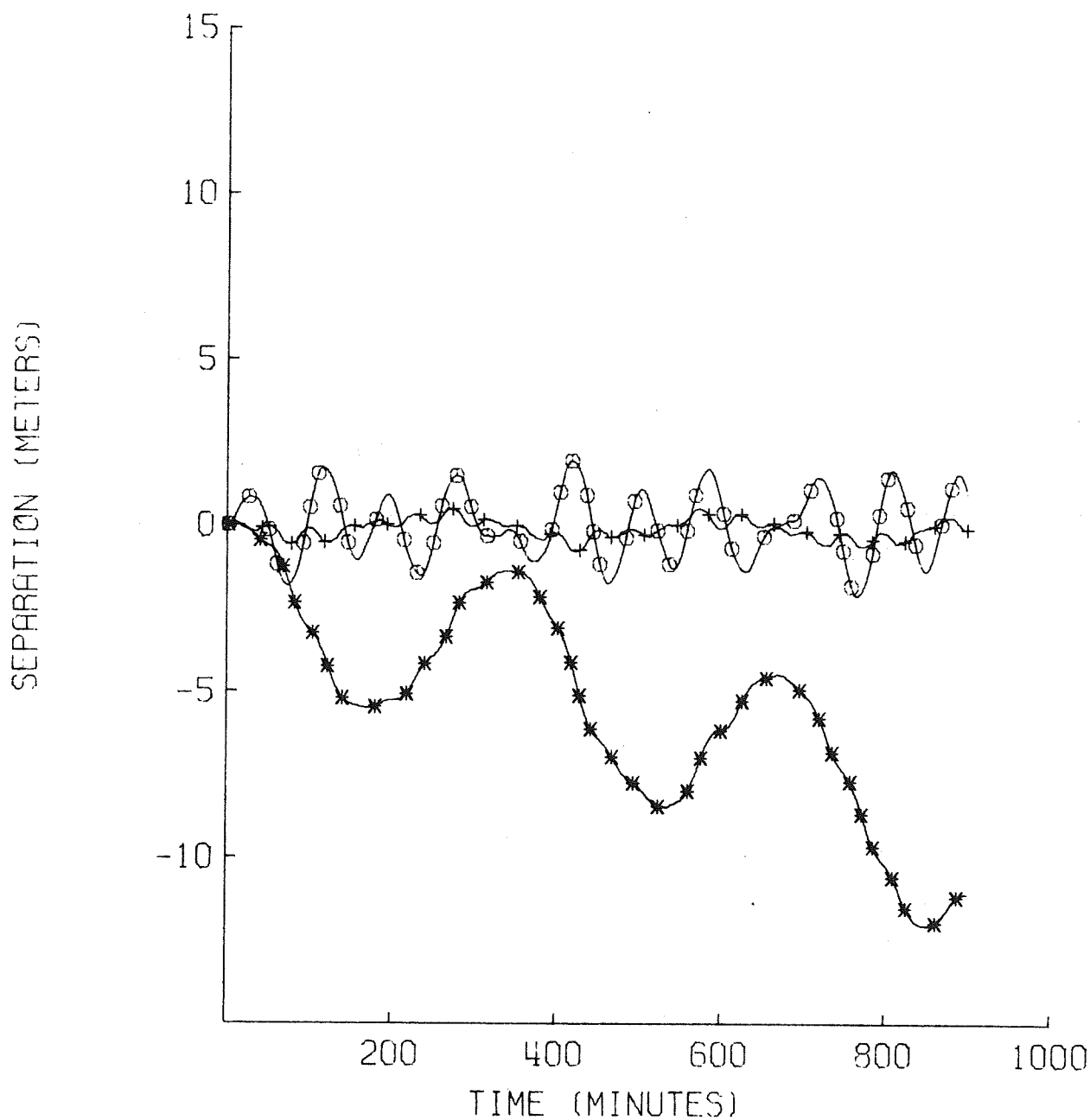
RUN FOR S(13,10) = -.0668

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

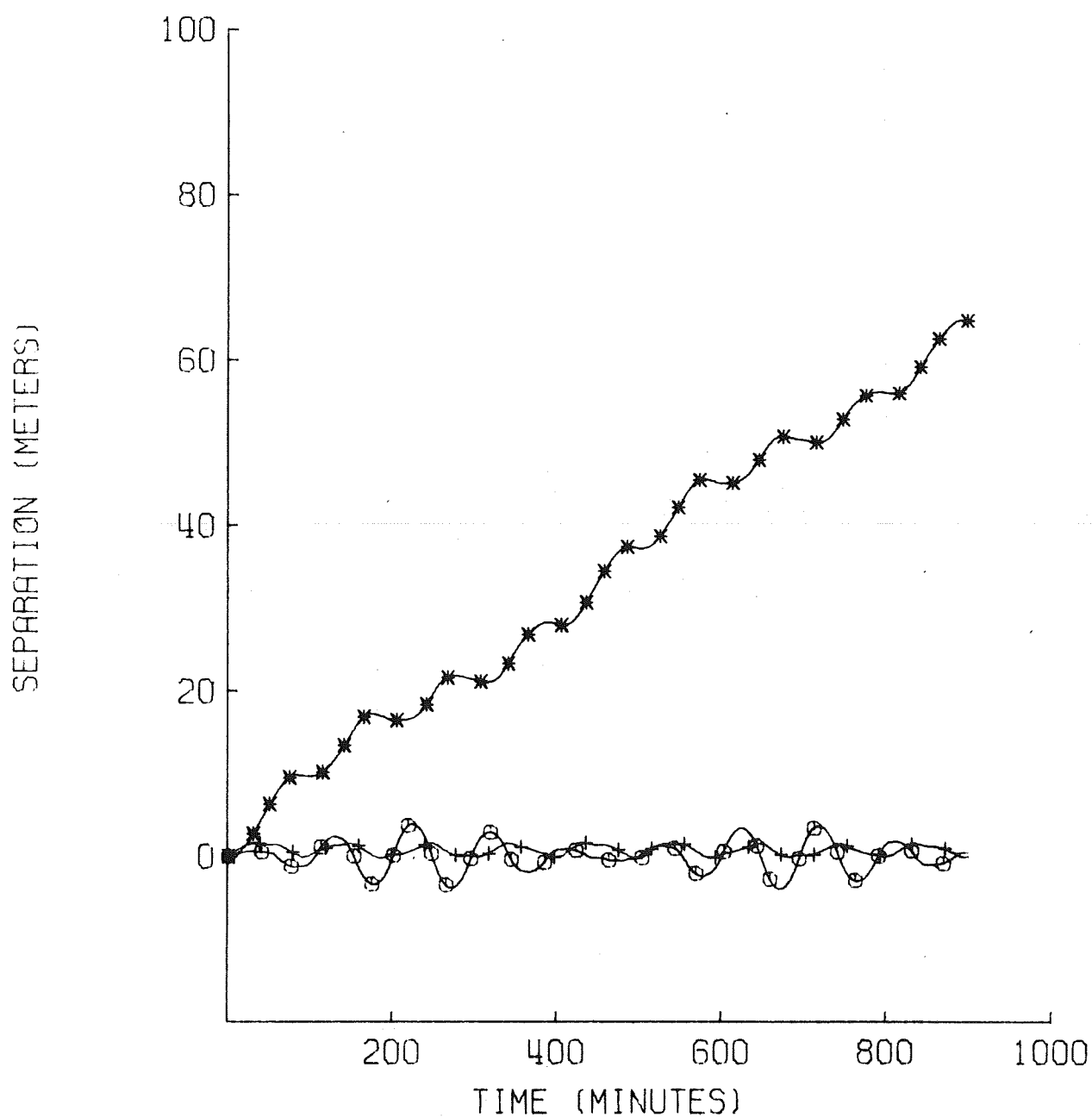
RUN FOR C(13,11) = -.0908

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

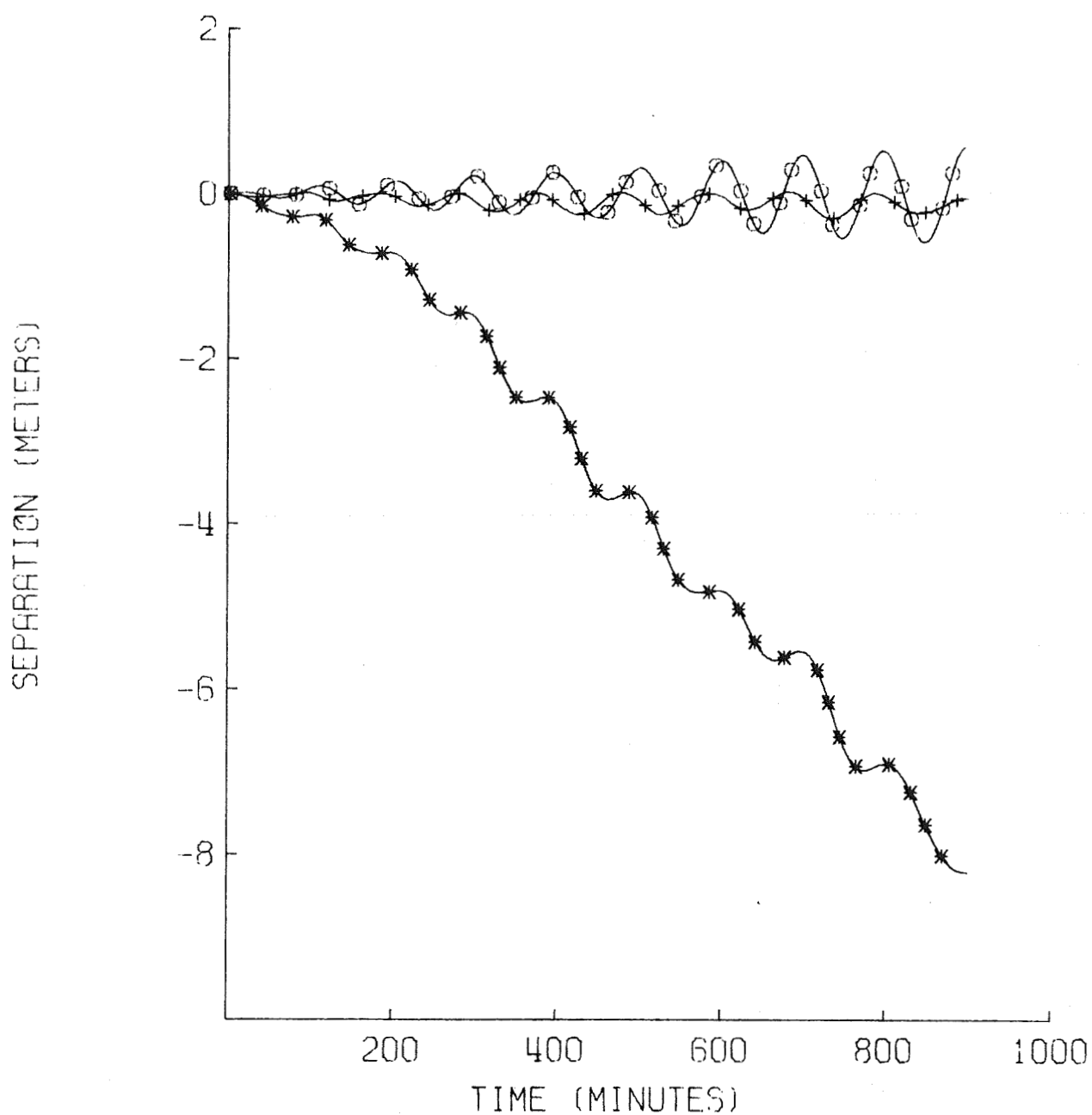
RUN FOR S(13,11) = .0020

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

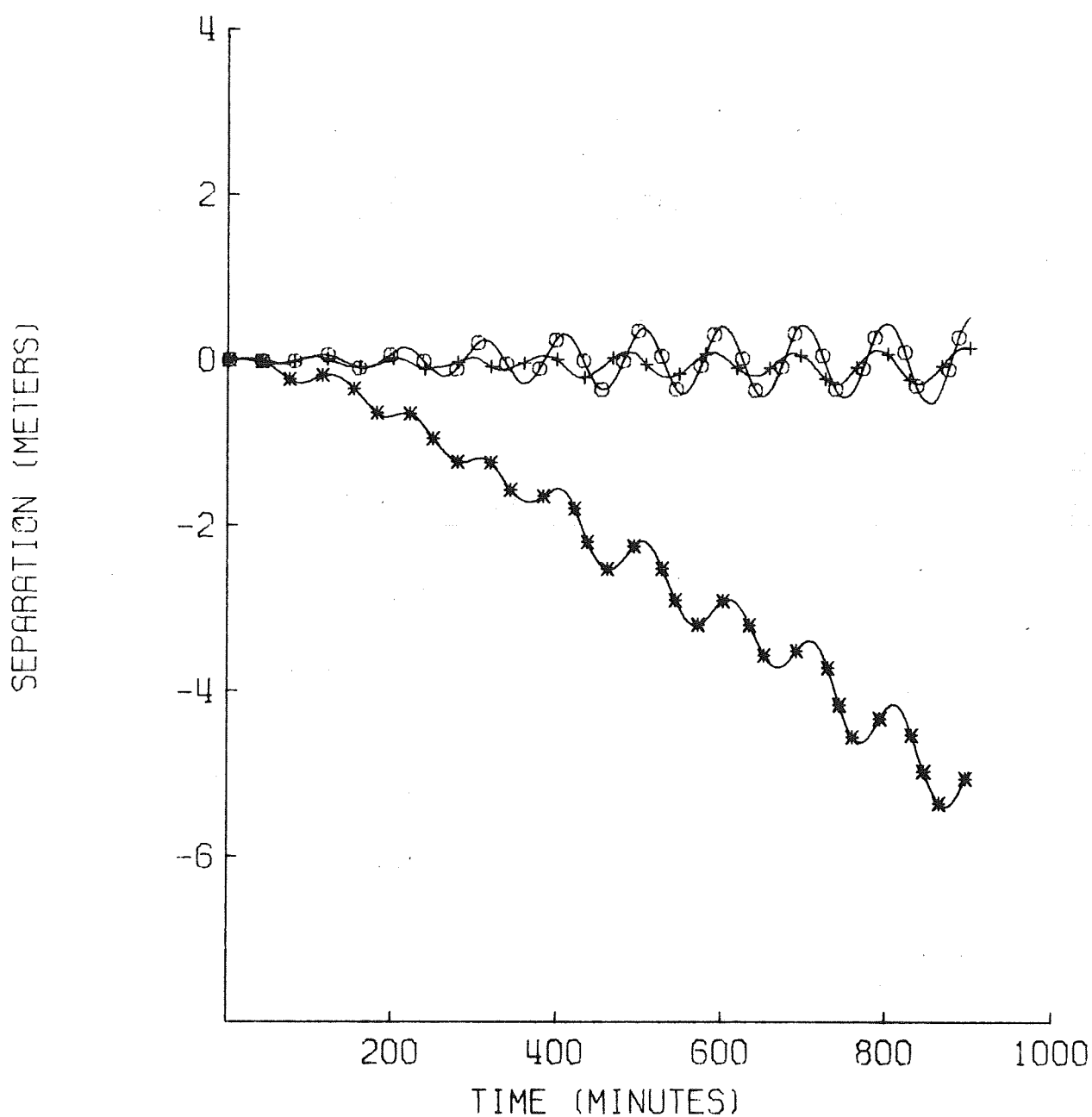
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(13,12) = .0060
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

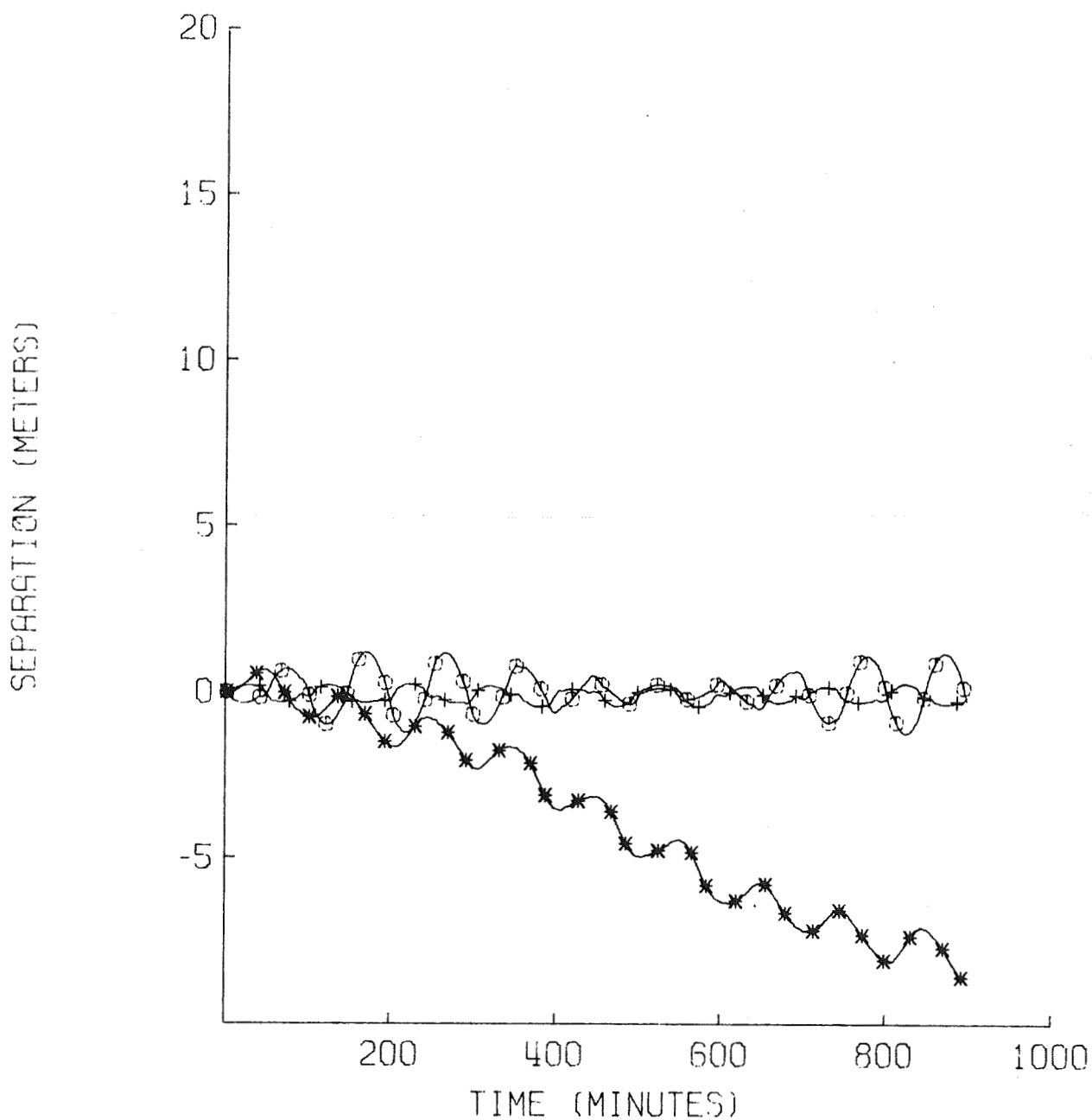
RUN FOR S(13,12) = .0650

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

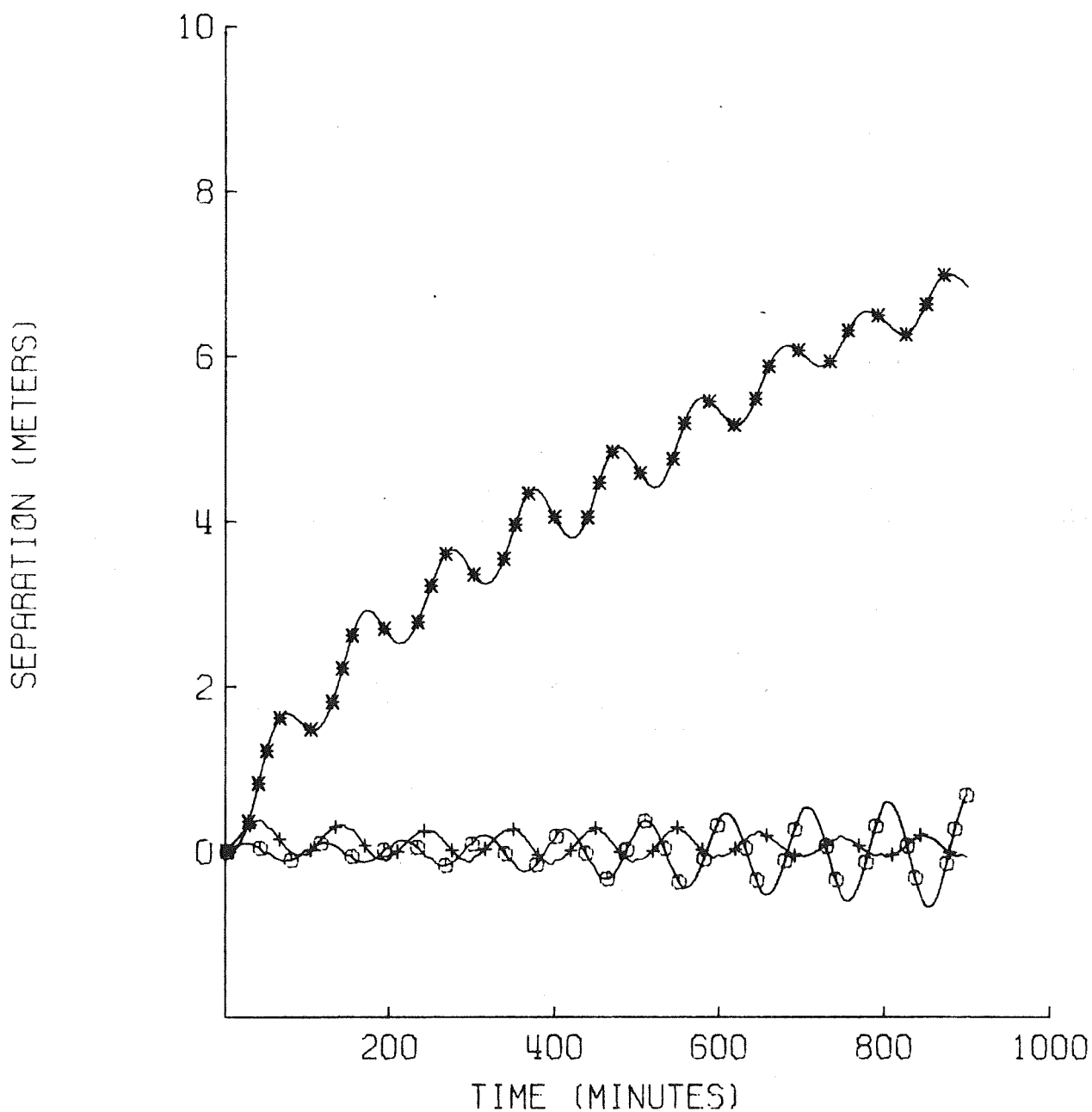
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(13,13) = -.0203
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C	OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535	

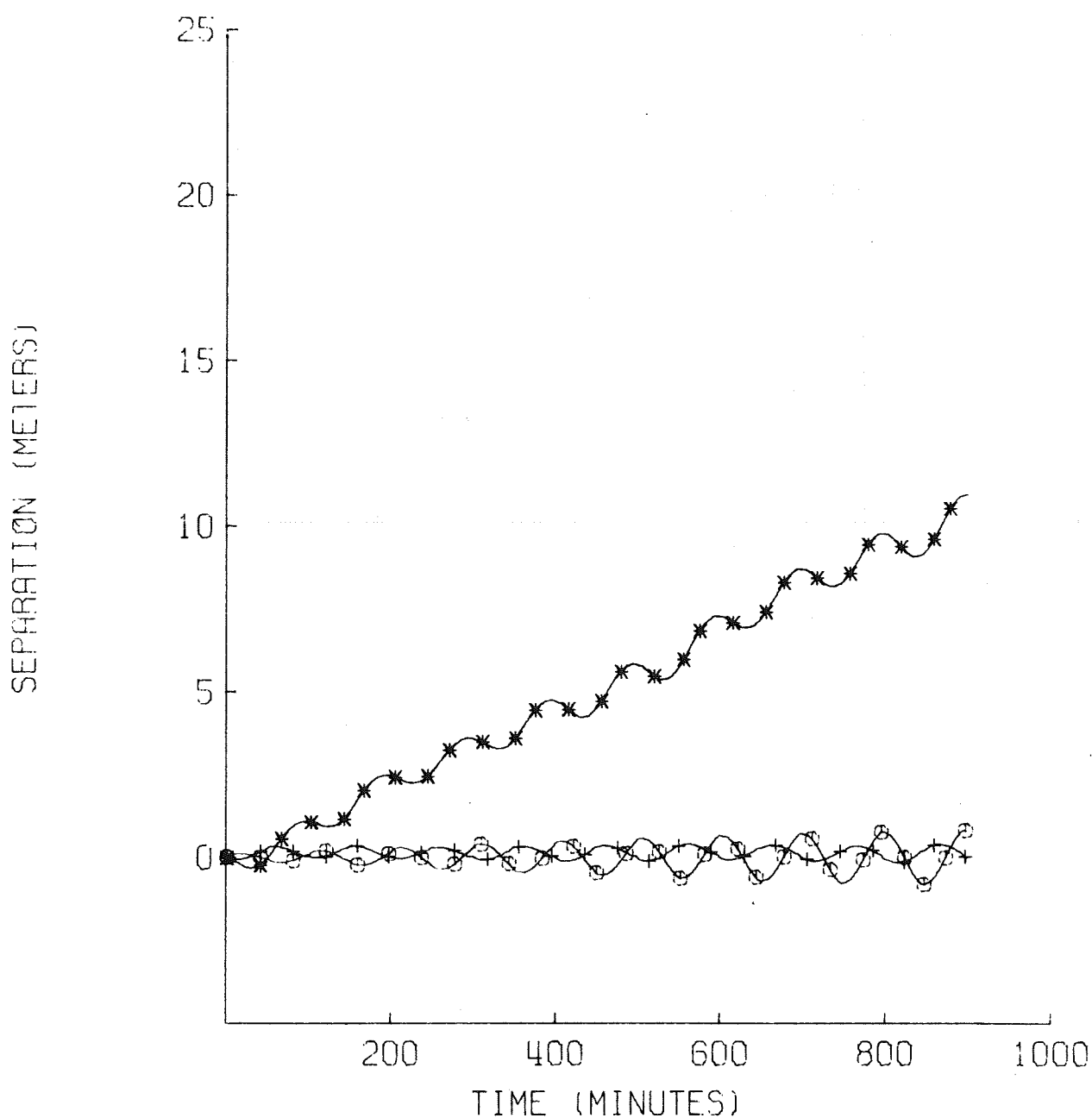
RUN FOR S(13,13) = .0250

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

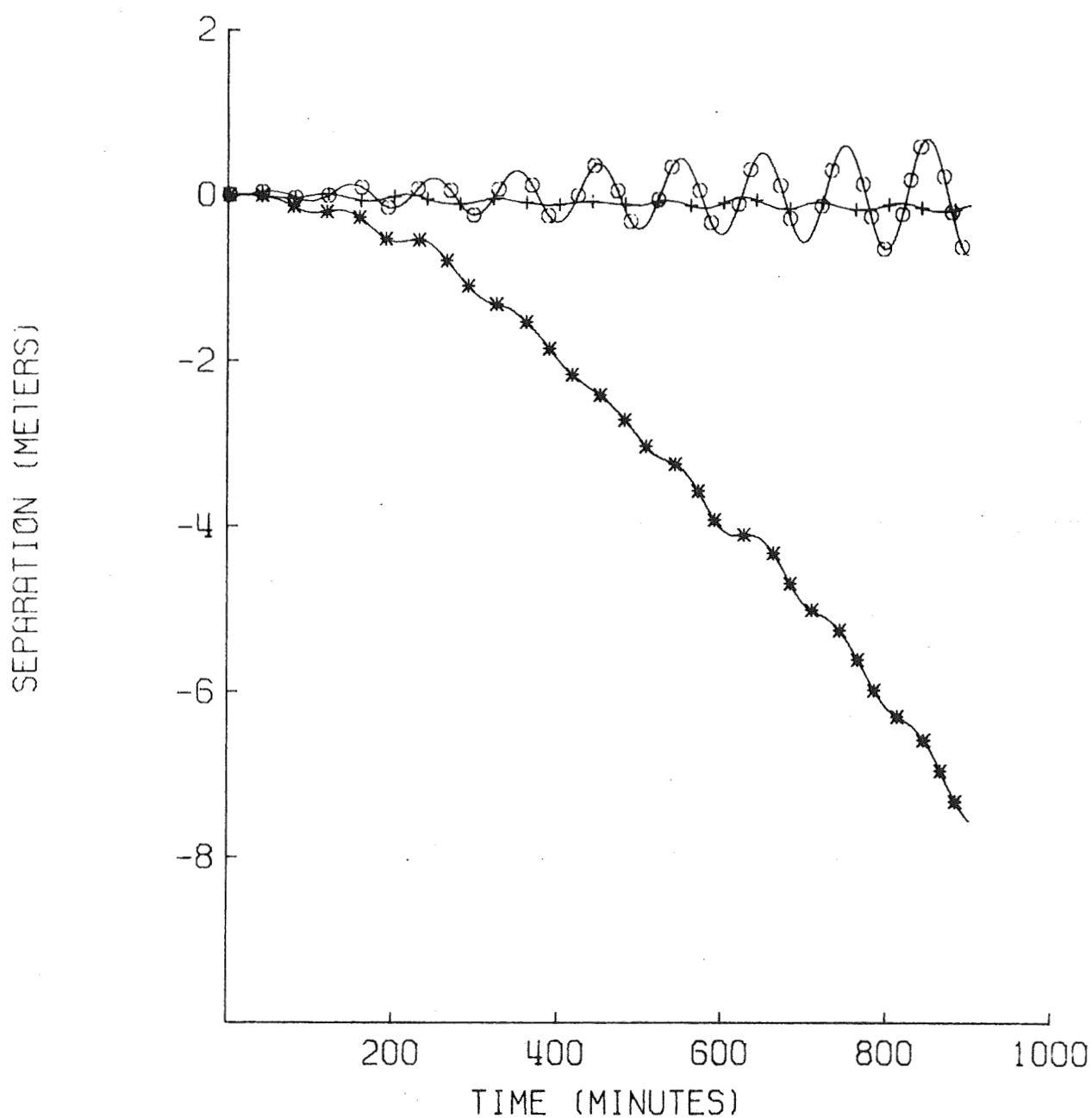
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(14,0) = -.0025
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

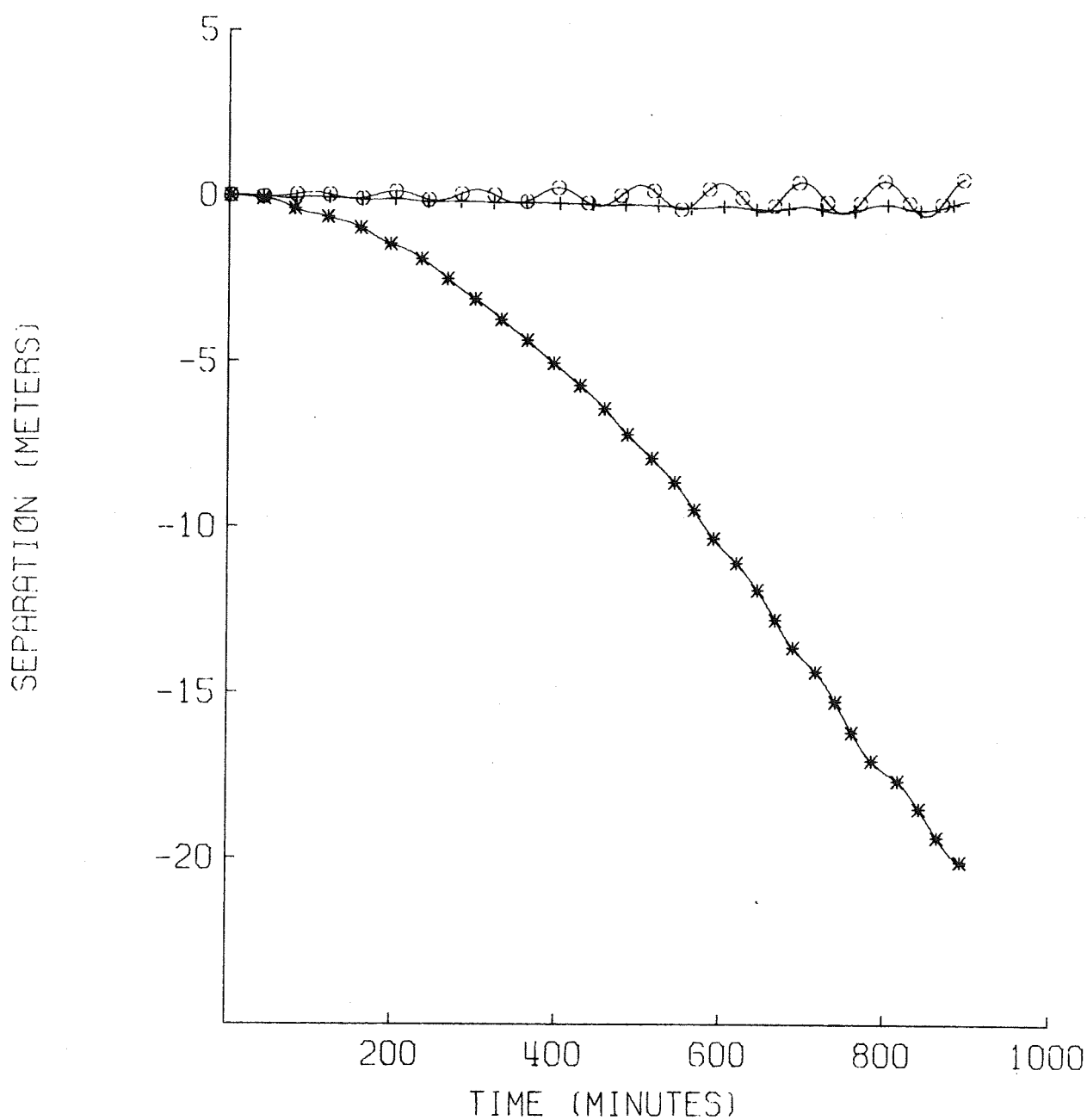
RUN FOR C(14,1) = -.0019

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

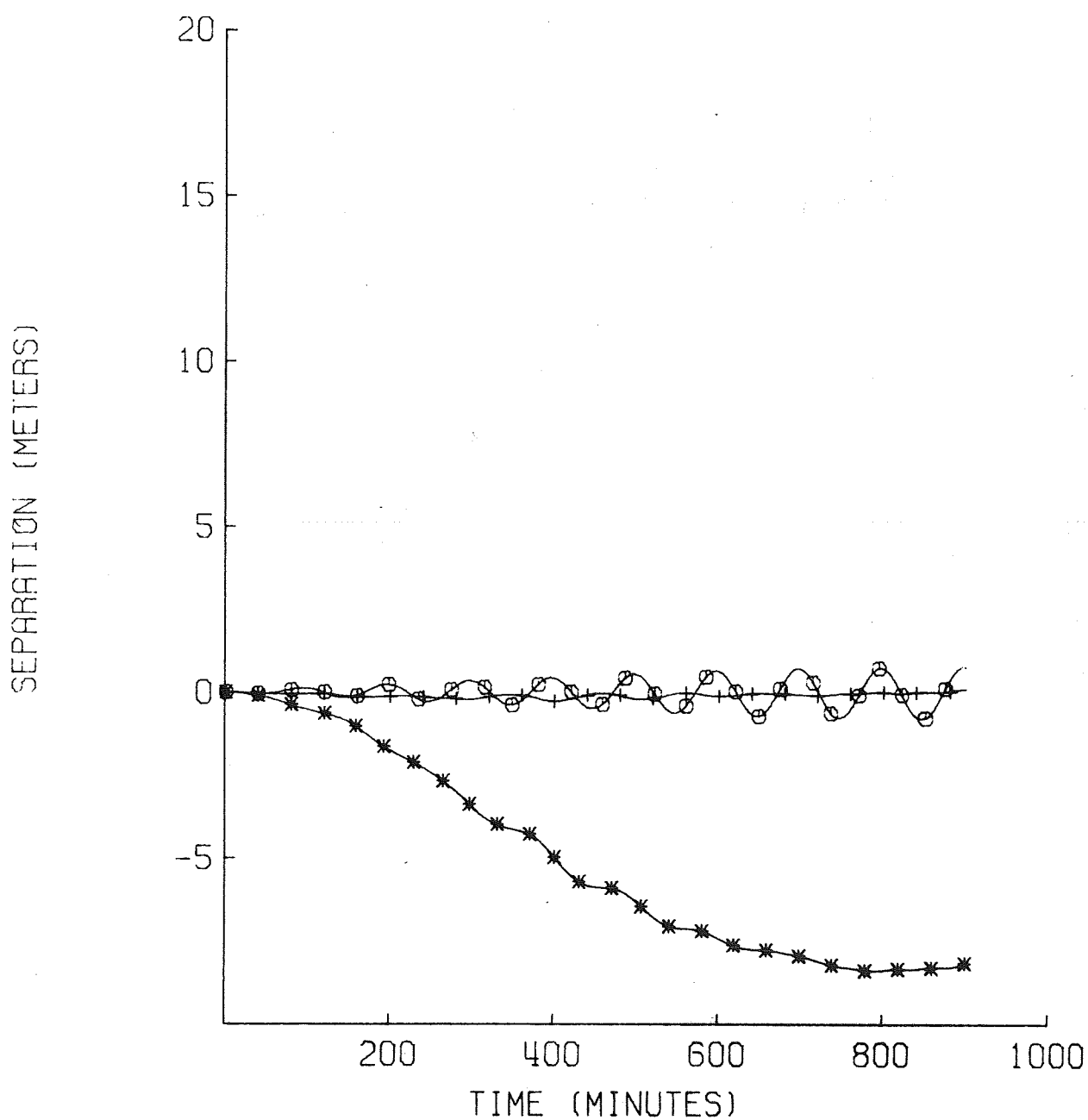
RUN FOR S(14,1) = -.0099

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

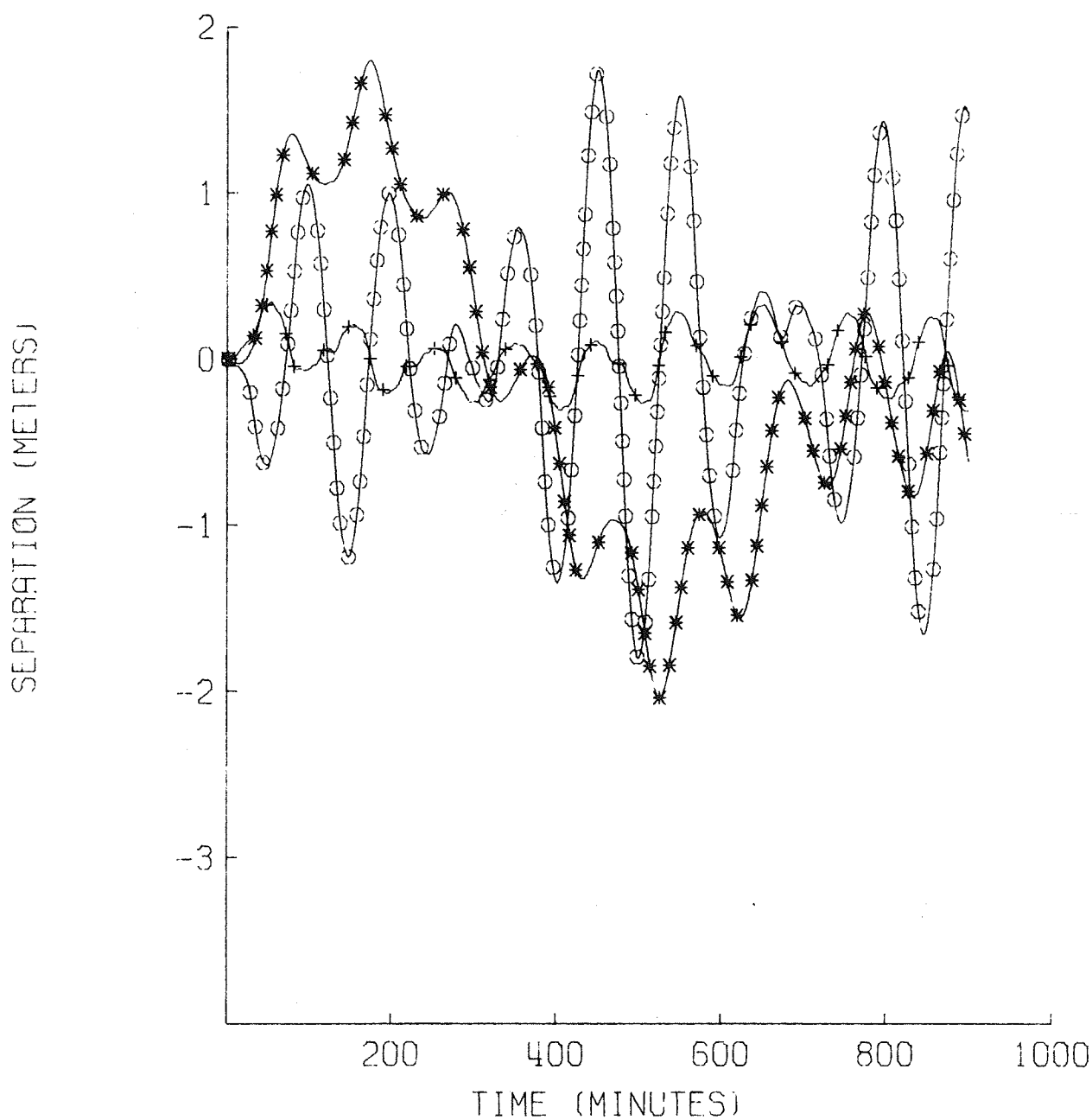
RUN FOR C(14,2) = -.0651

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

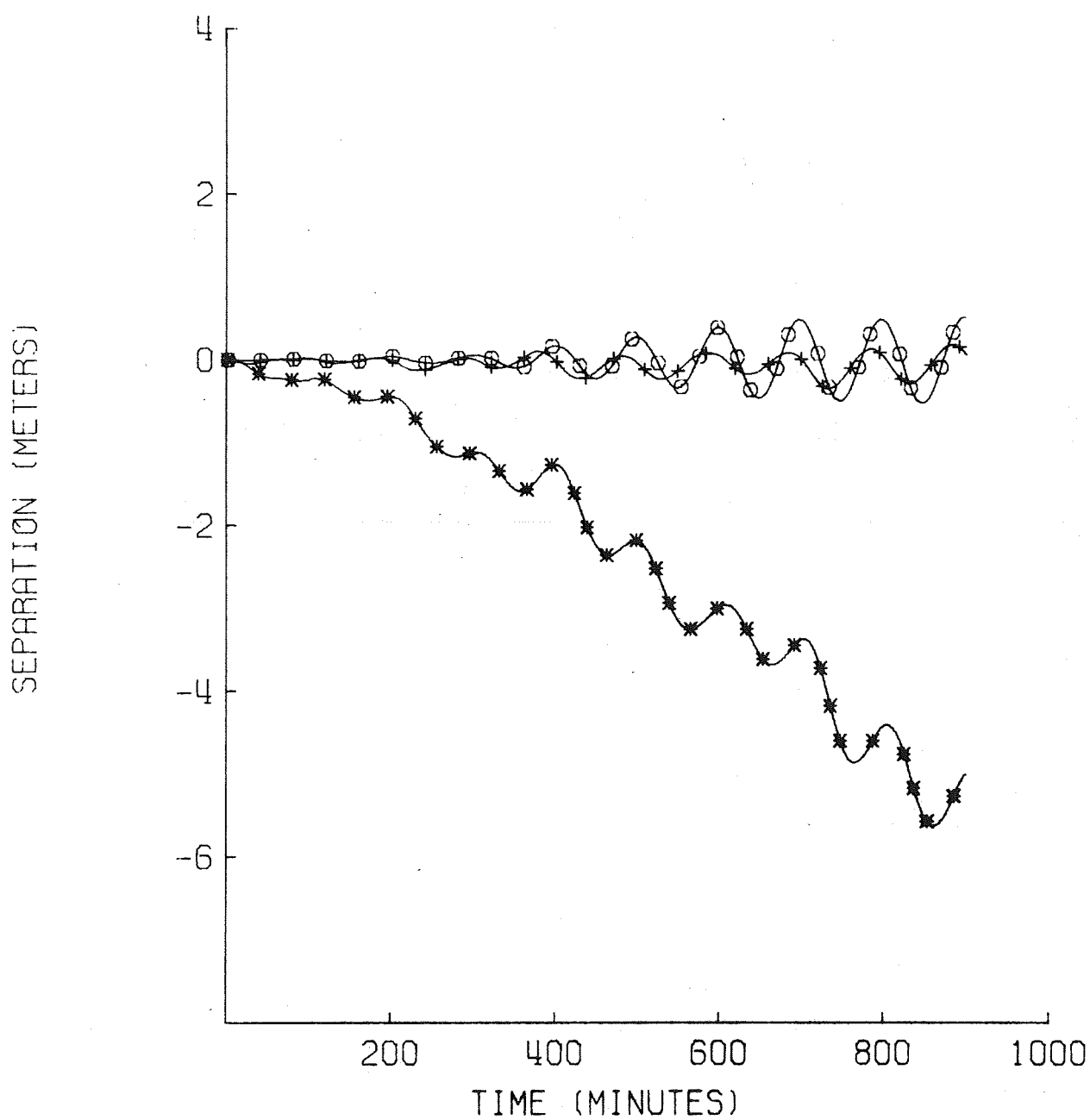
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(14,2) = -.0027
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

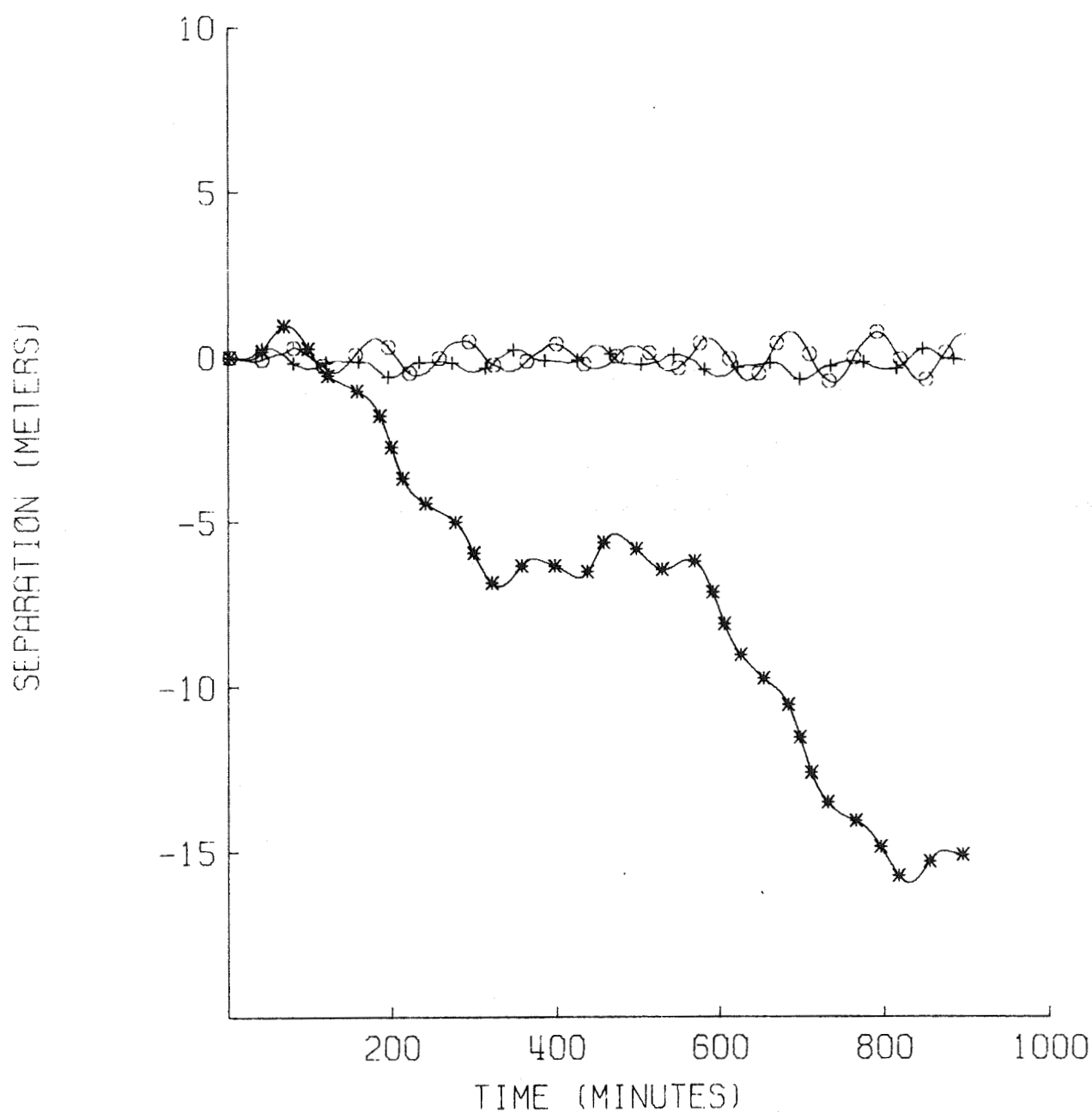
RUN FOR C(14,3) = .0457

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

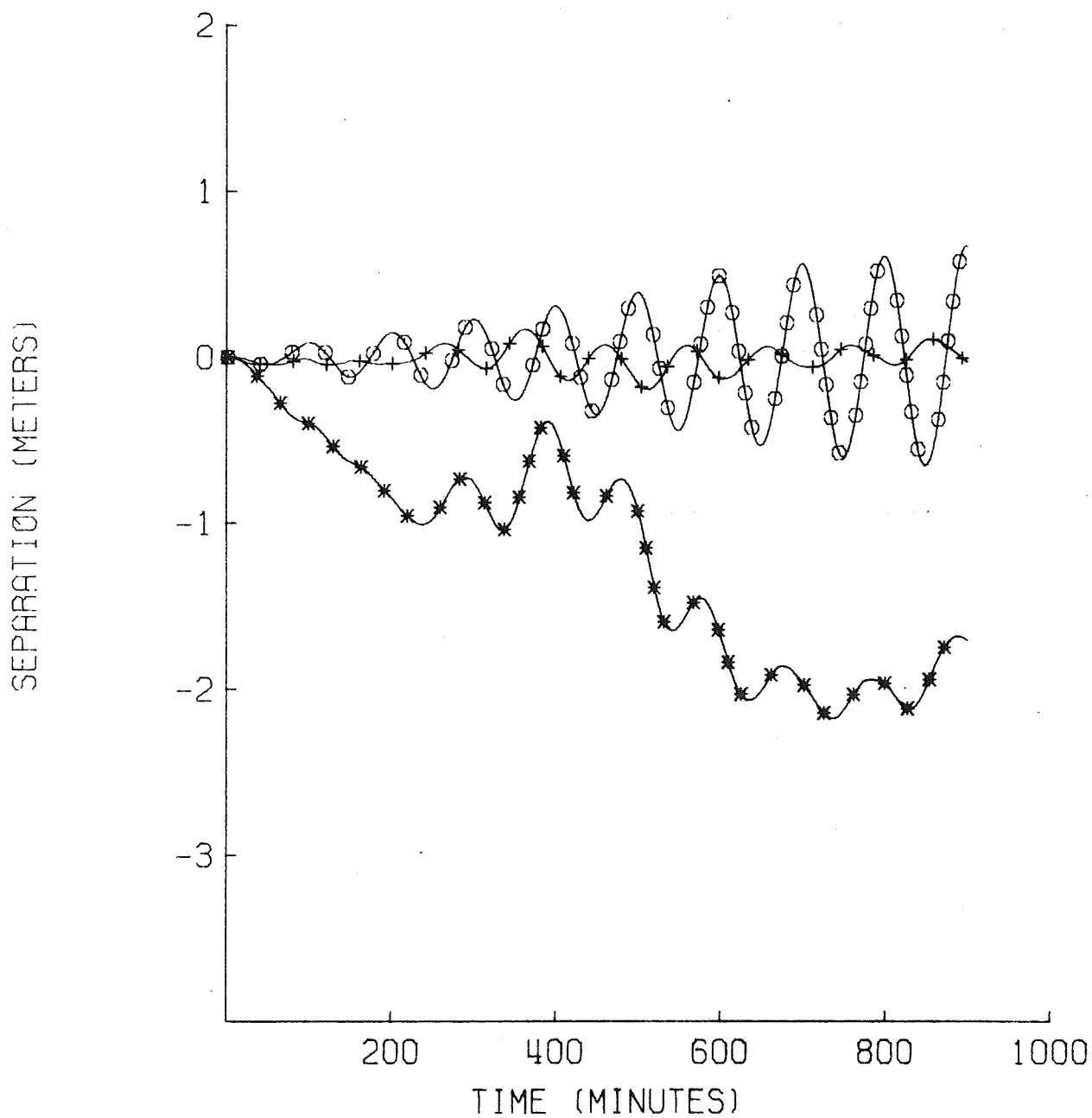
RUN FOR S(14,3) = .0012

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

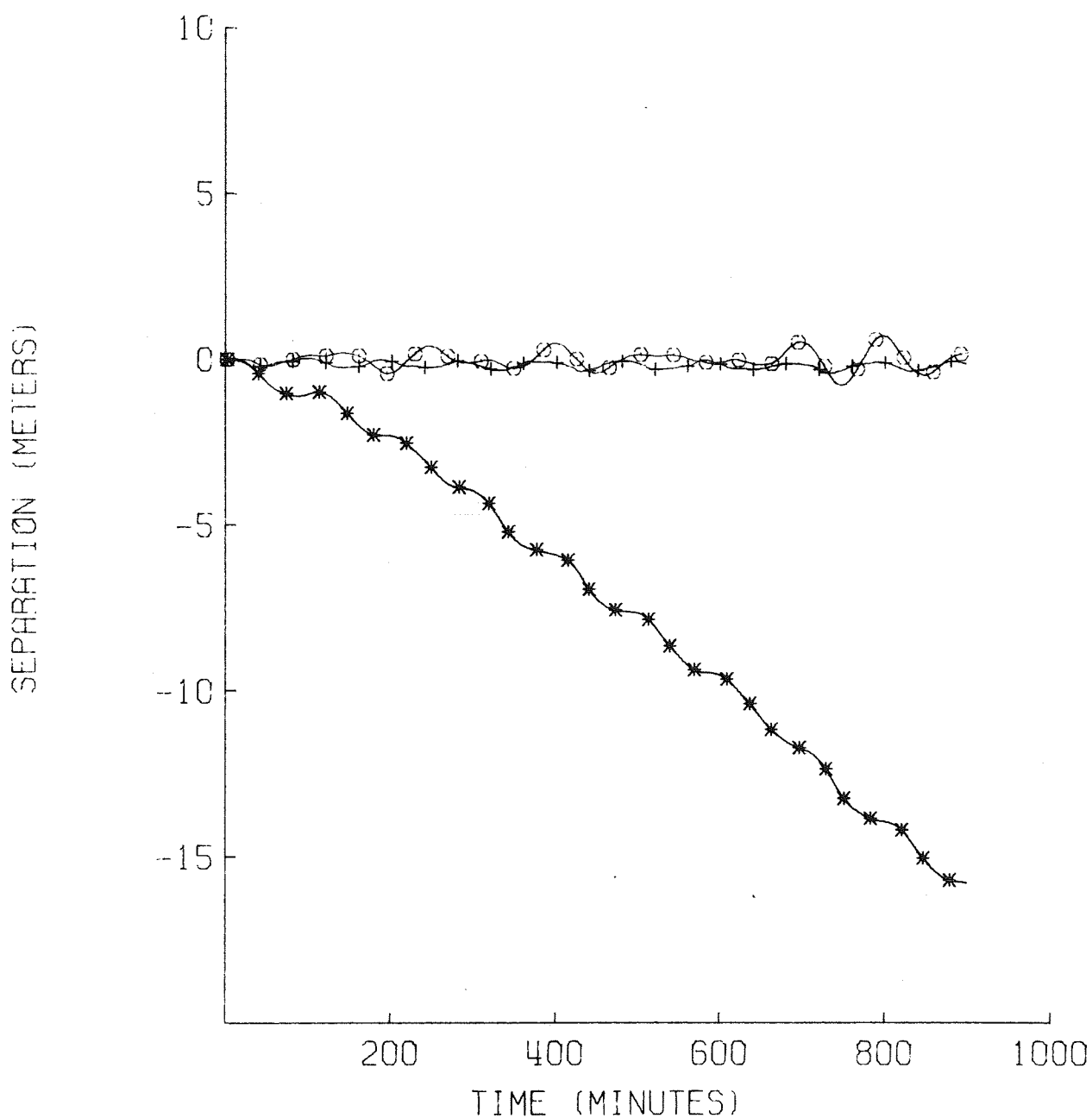
RUN FOR C(14,4) = .0233

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

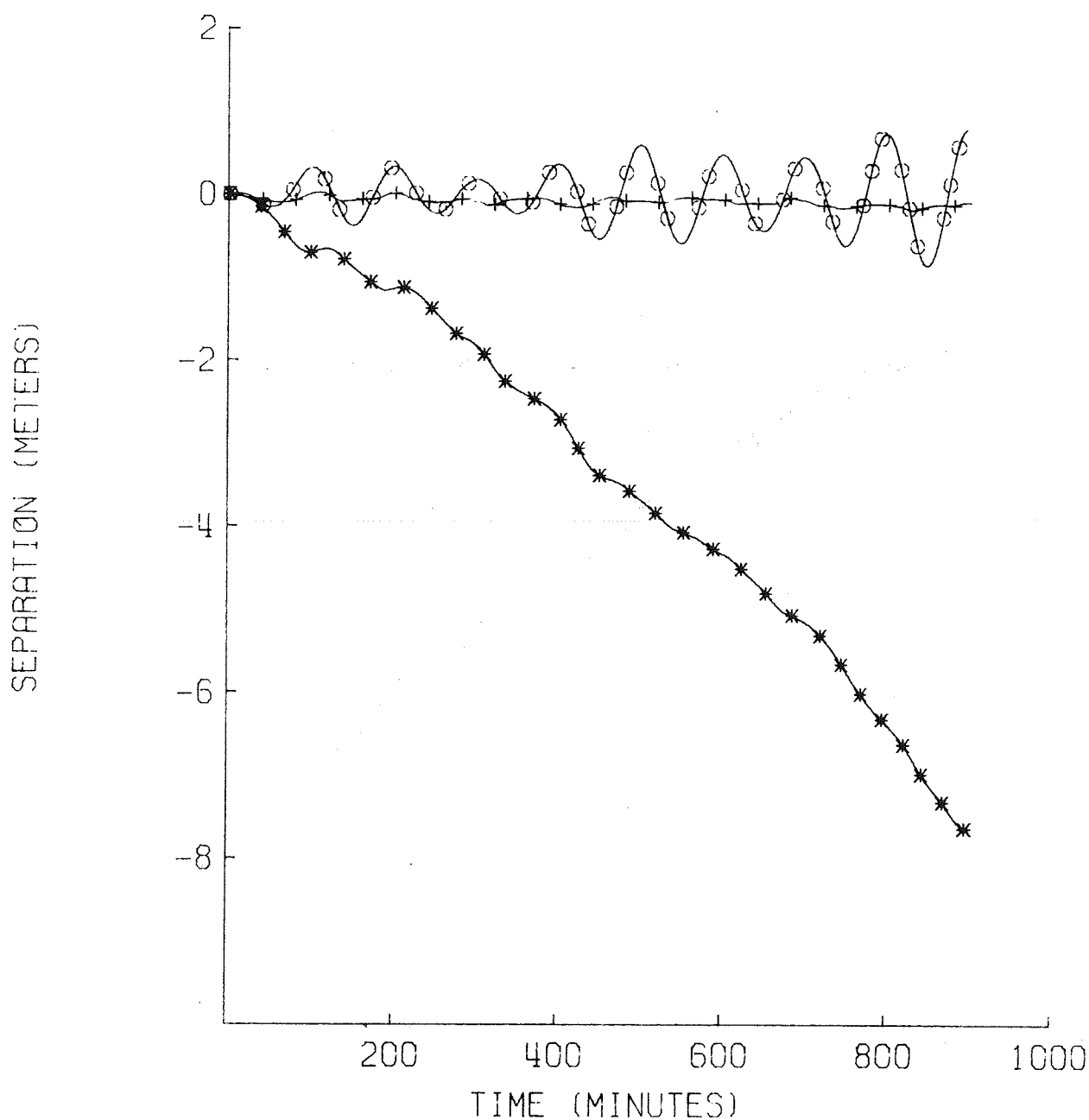
RUN FOR S(14 , 4) = -.0091

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

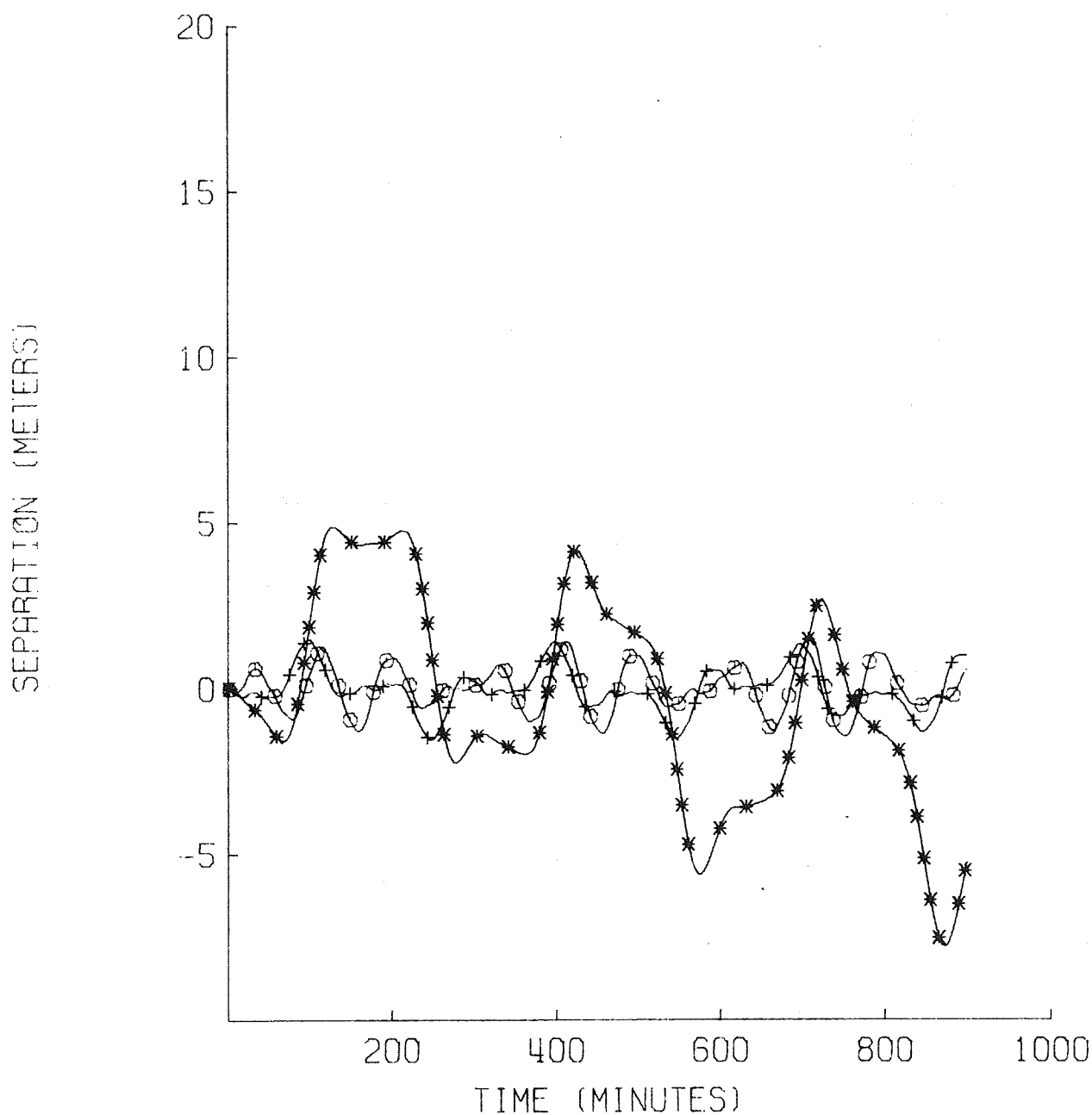
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(14,5) = .1033
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

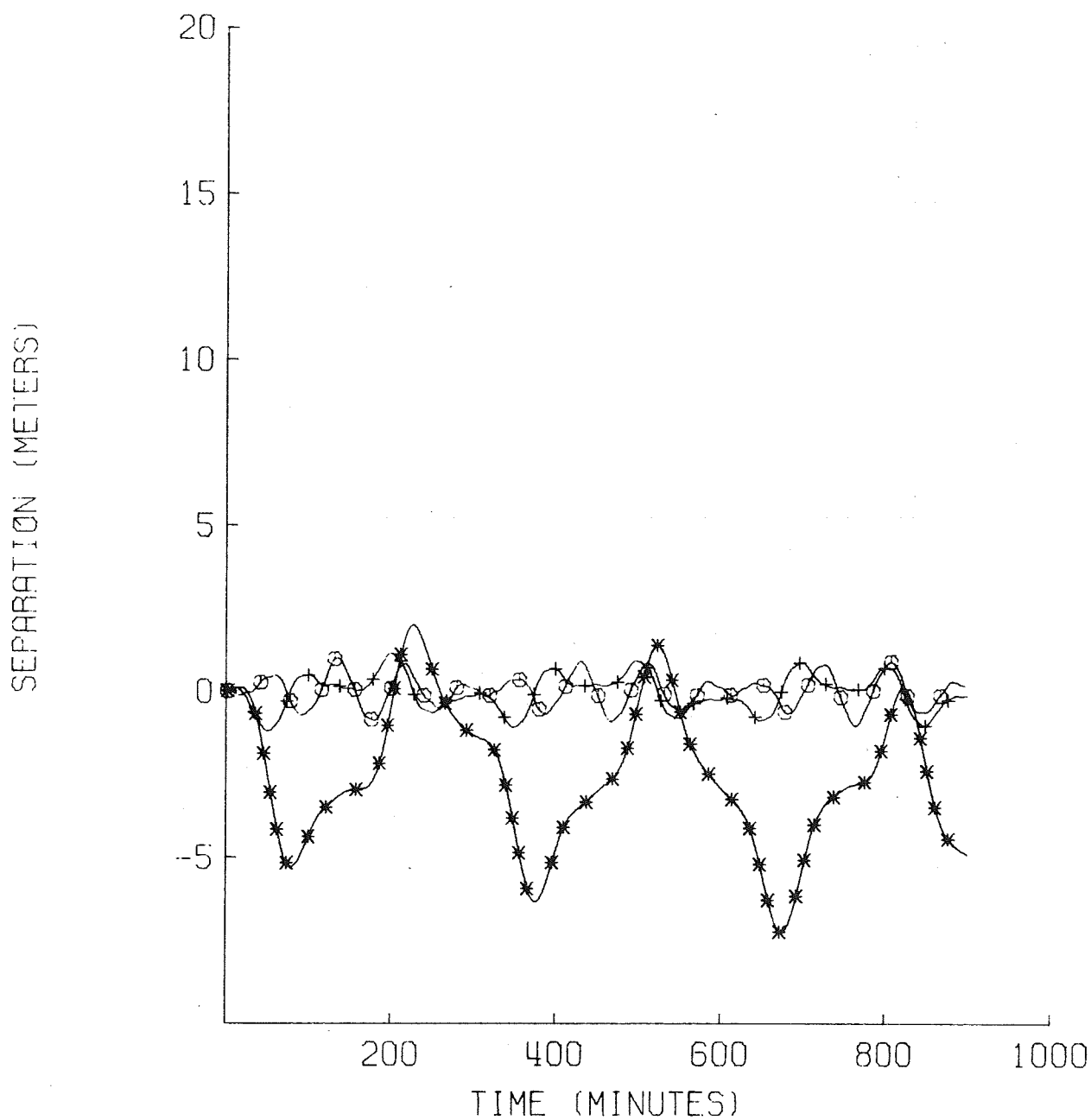
RUN FOR S(14 ,5) = -.0849

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

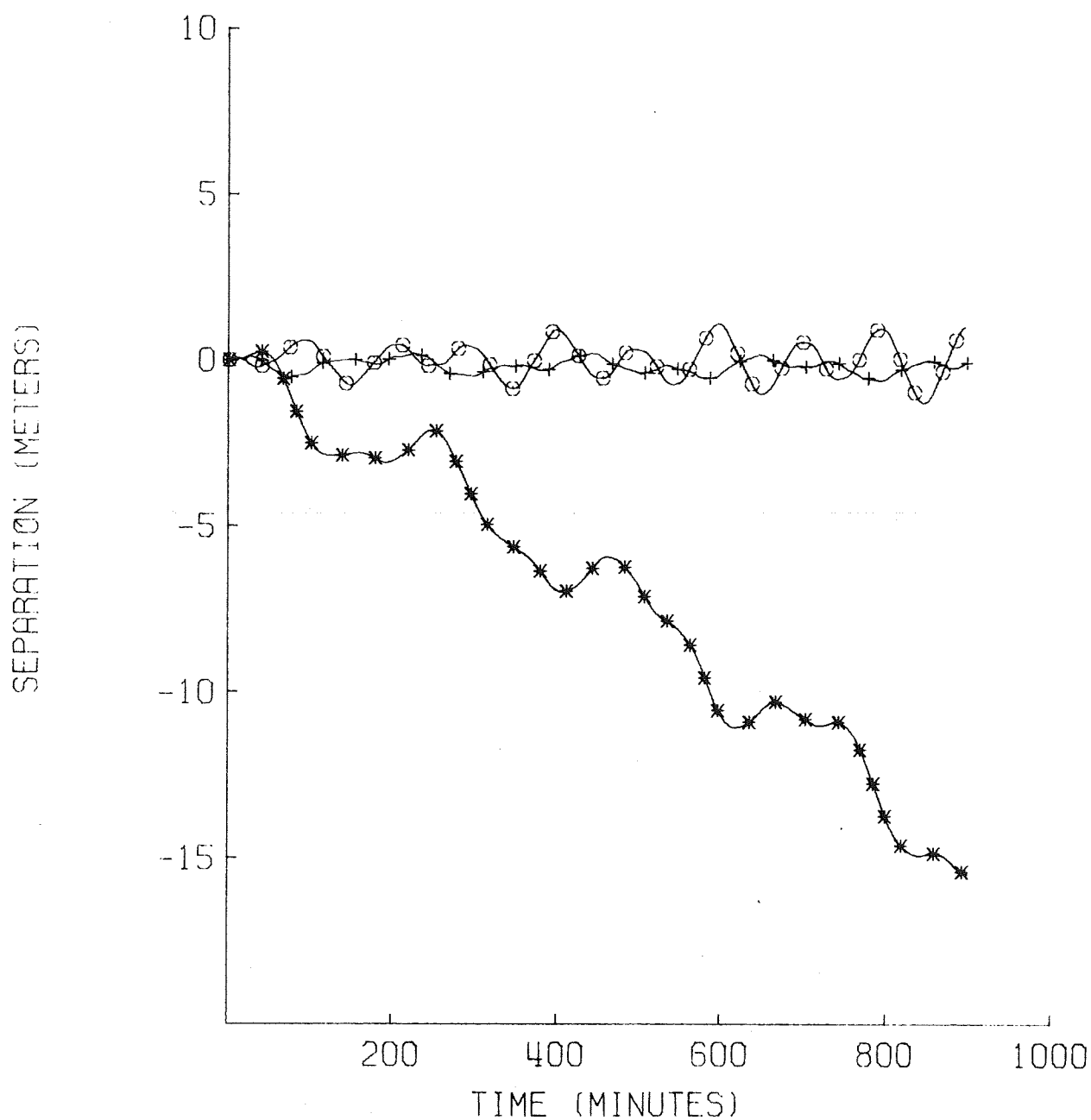
RUN FOR C(14,6) = .0353

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

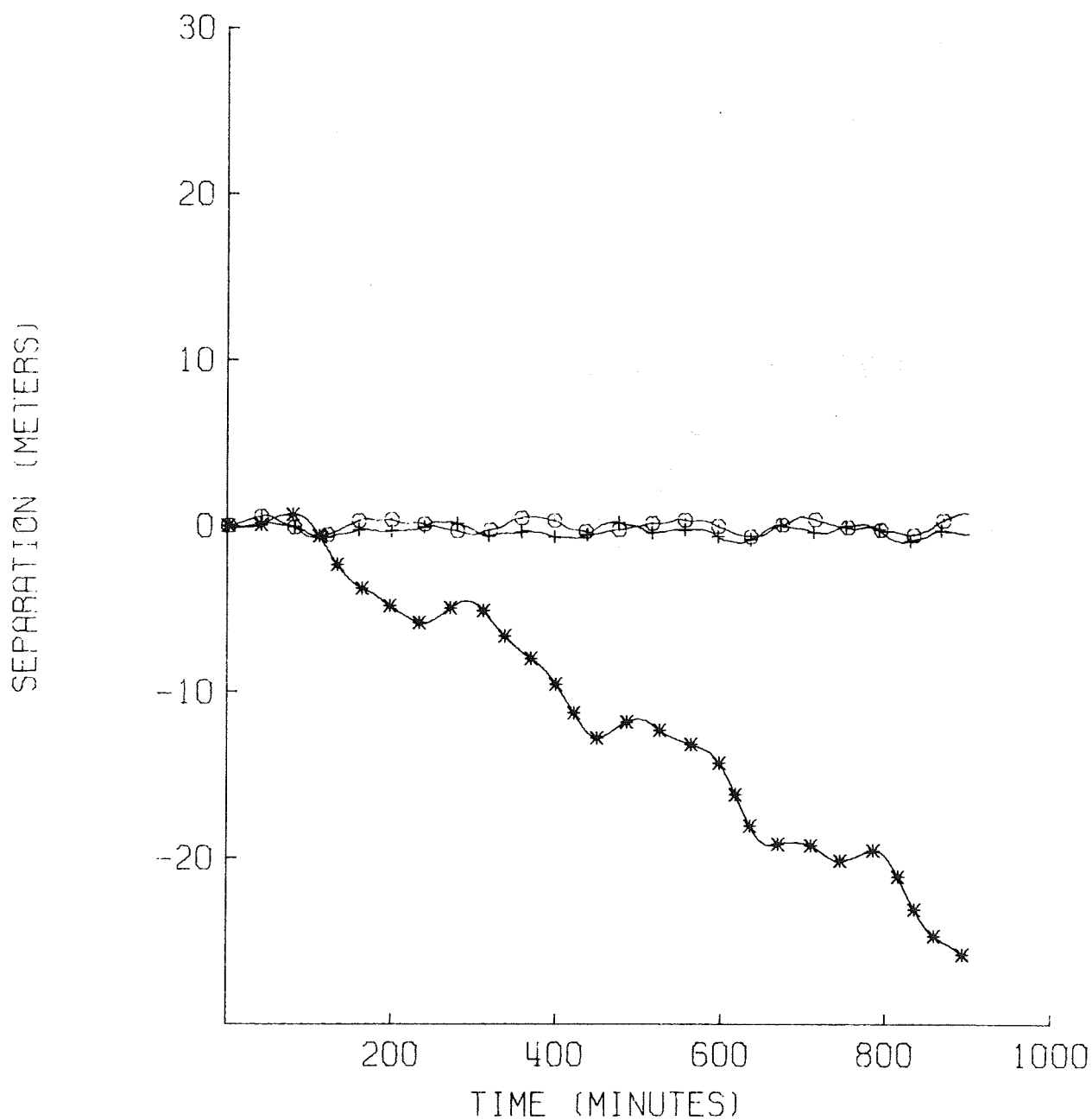
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(14.6) = -.0500
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

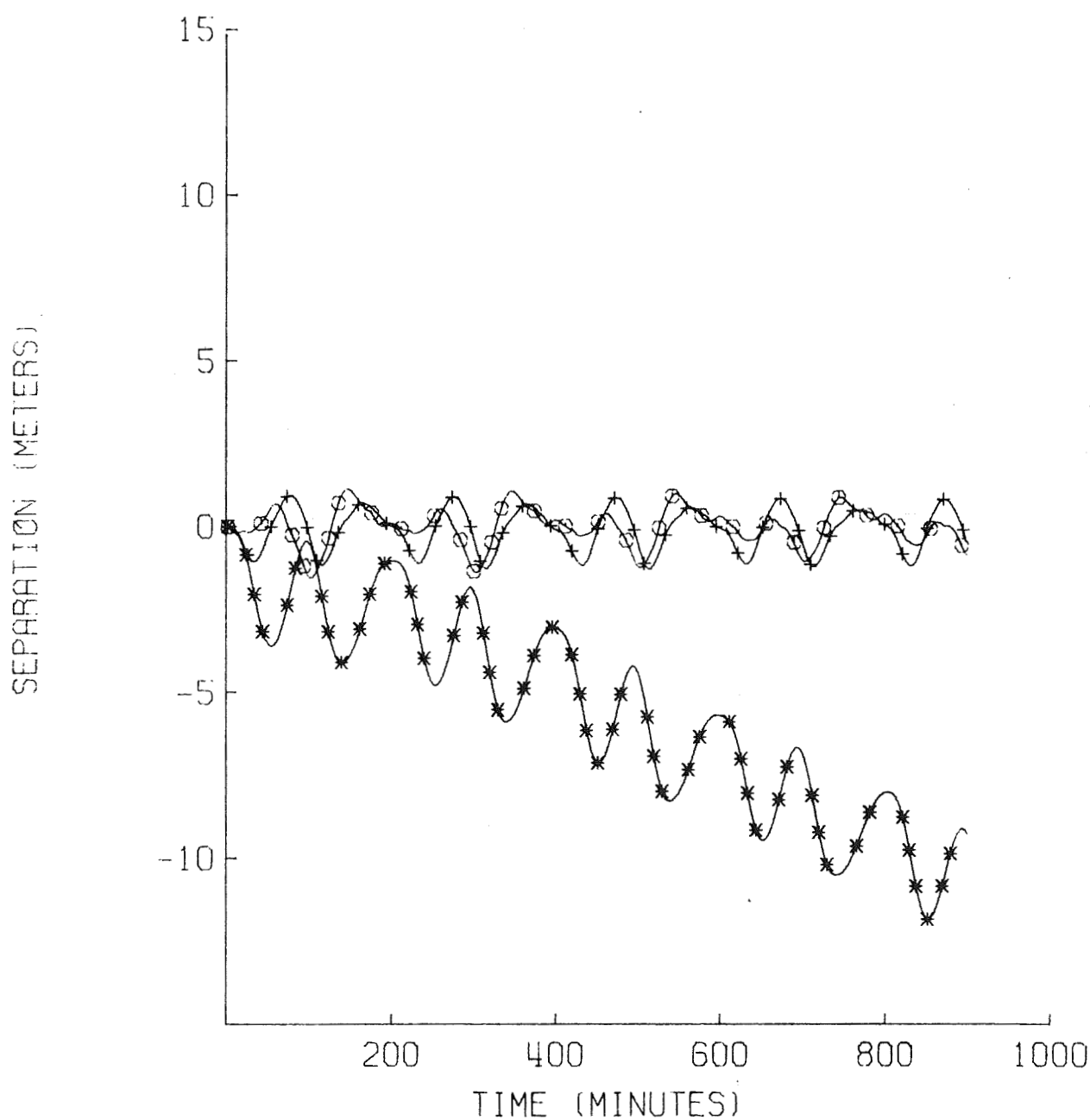
RUN FOR C(14.7) = .0759

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

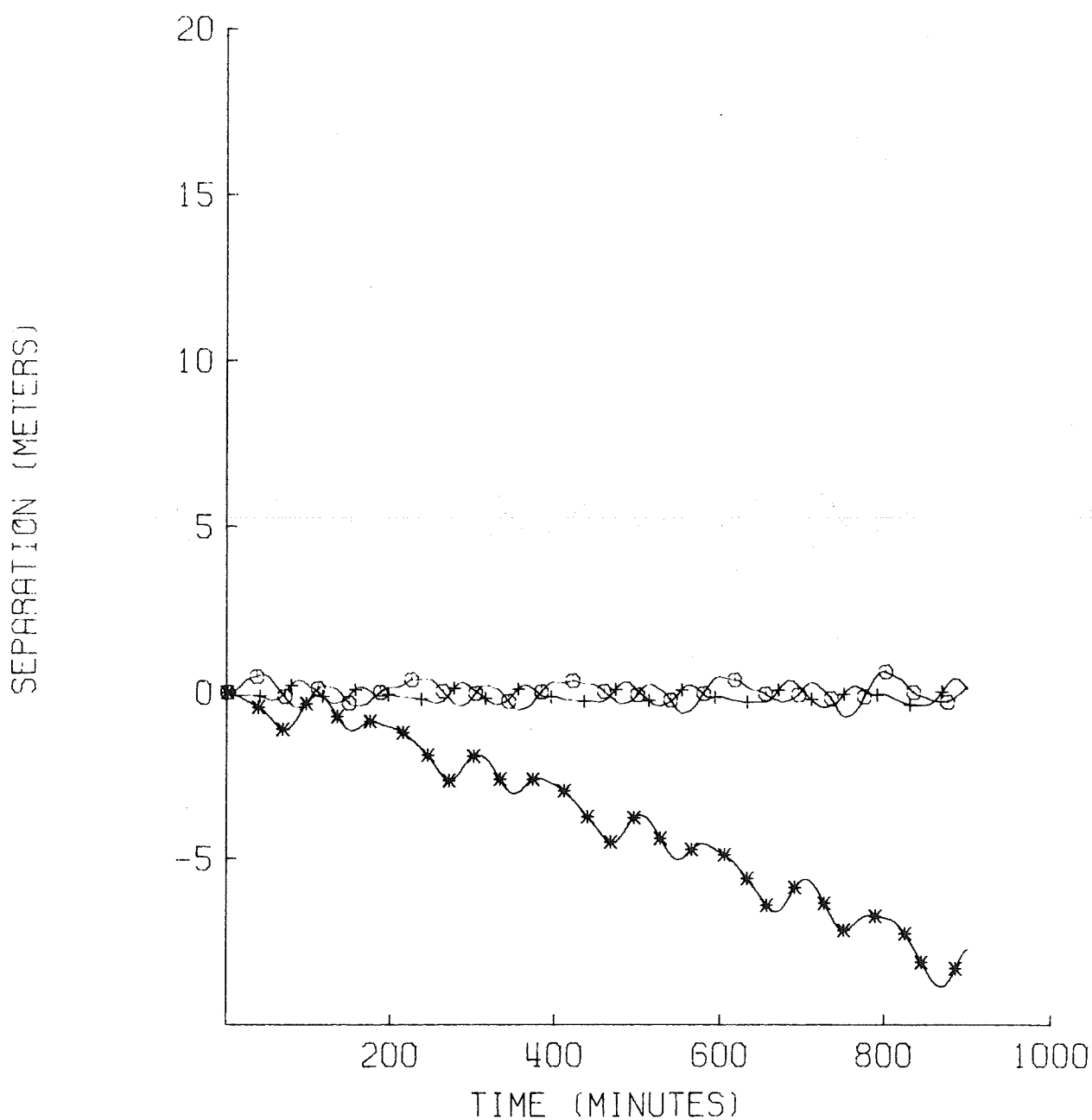
RUN FOR S(14 , 7) = .0366

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

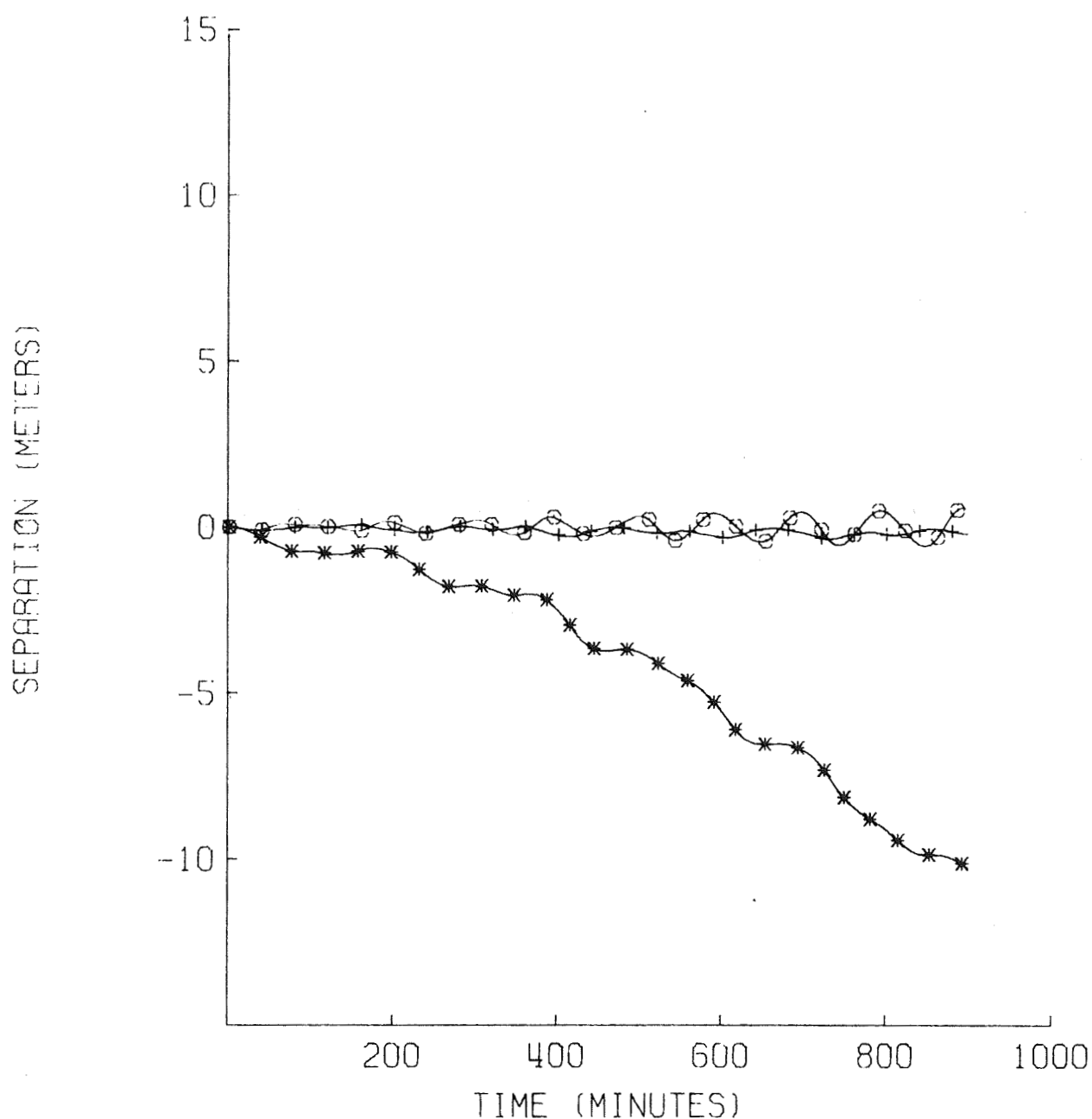
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(14,8) = -.0074
 FACTOR USED IS 1.000000

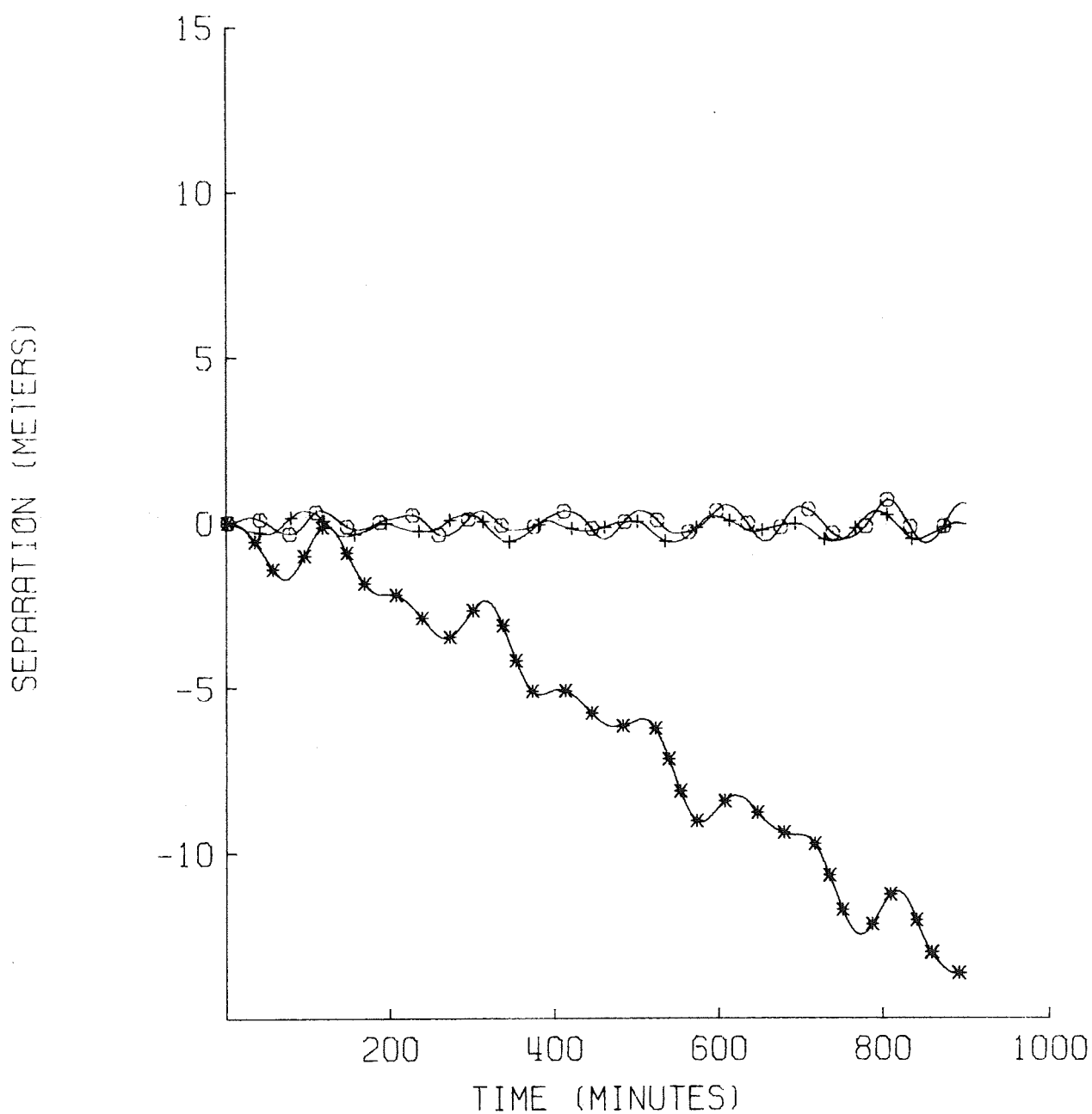
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(14 , 8) = -.0155
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

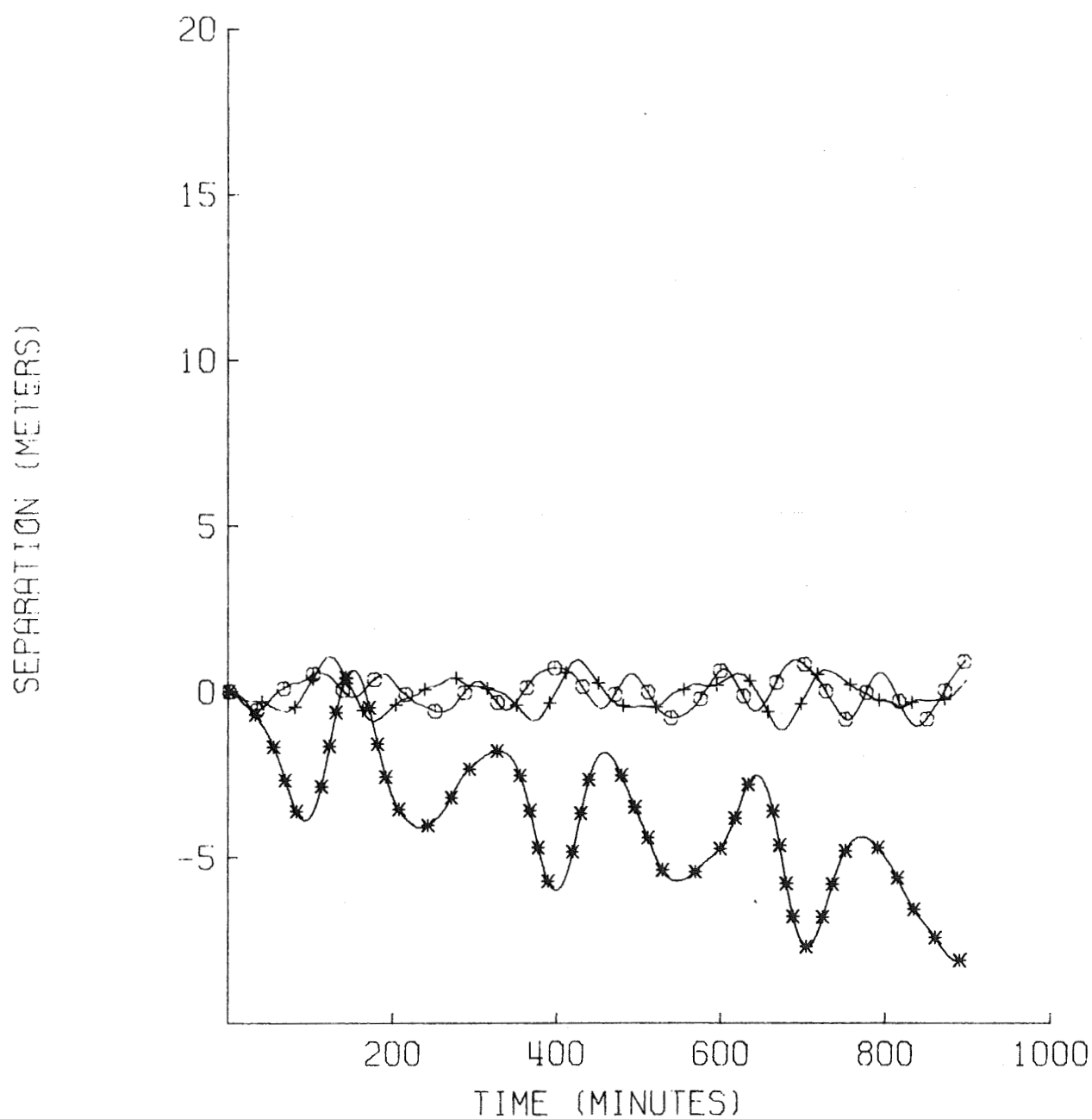
RUN FOR C(14.9) = .0351

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(⊖) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

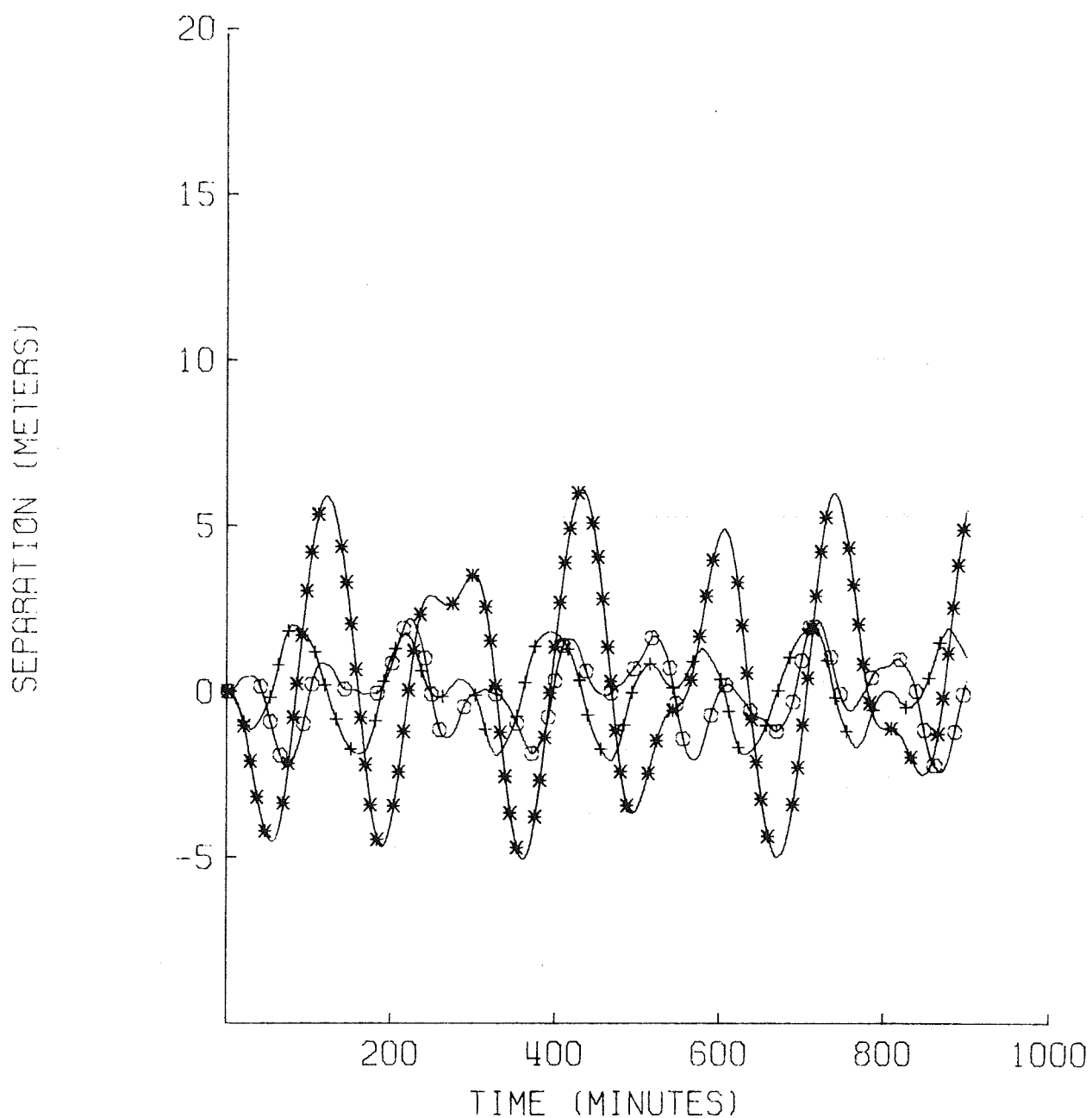
RUN FOR S(14 , 9) = .0849

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

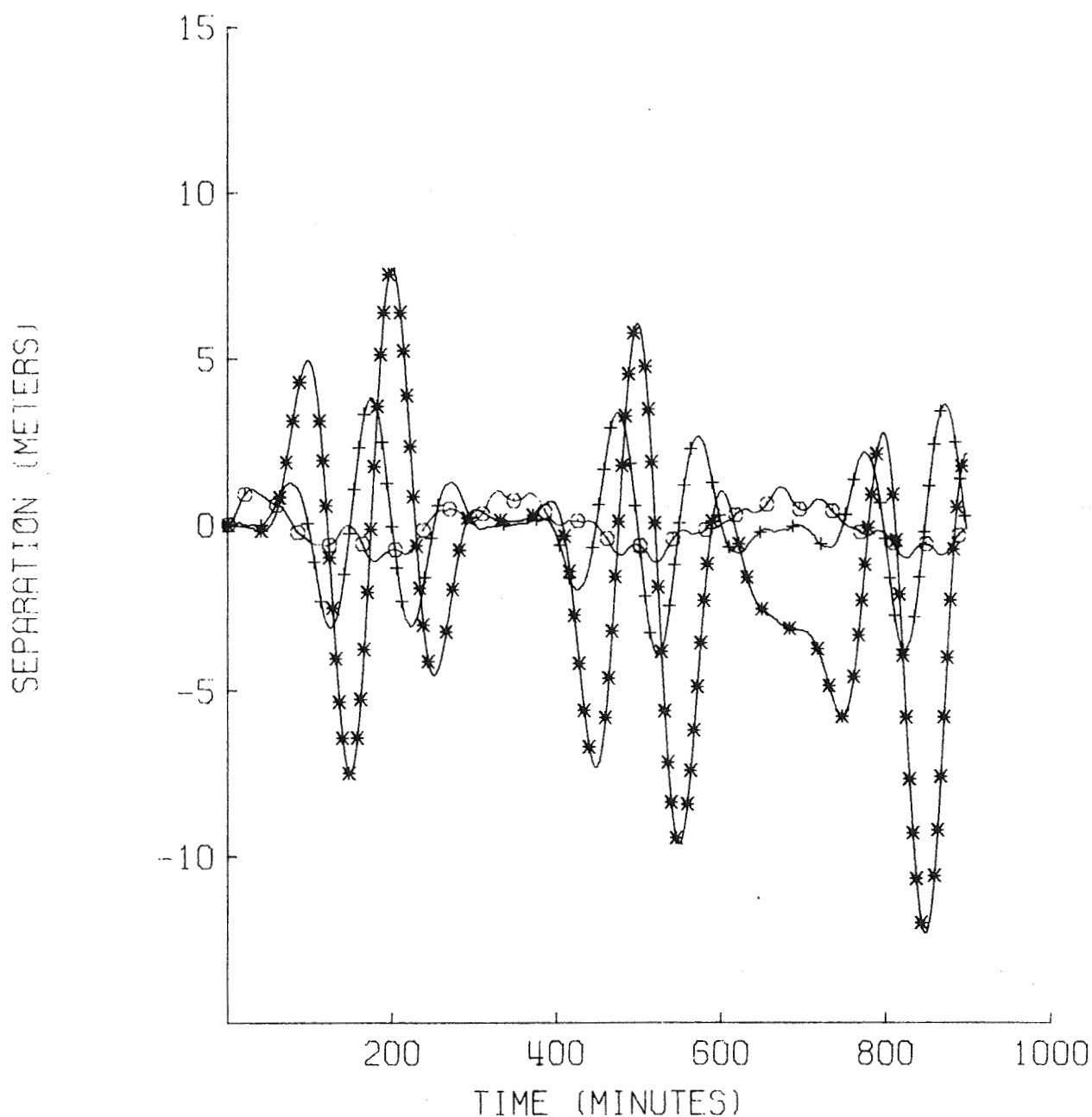
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(14,10) = .0748
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

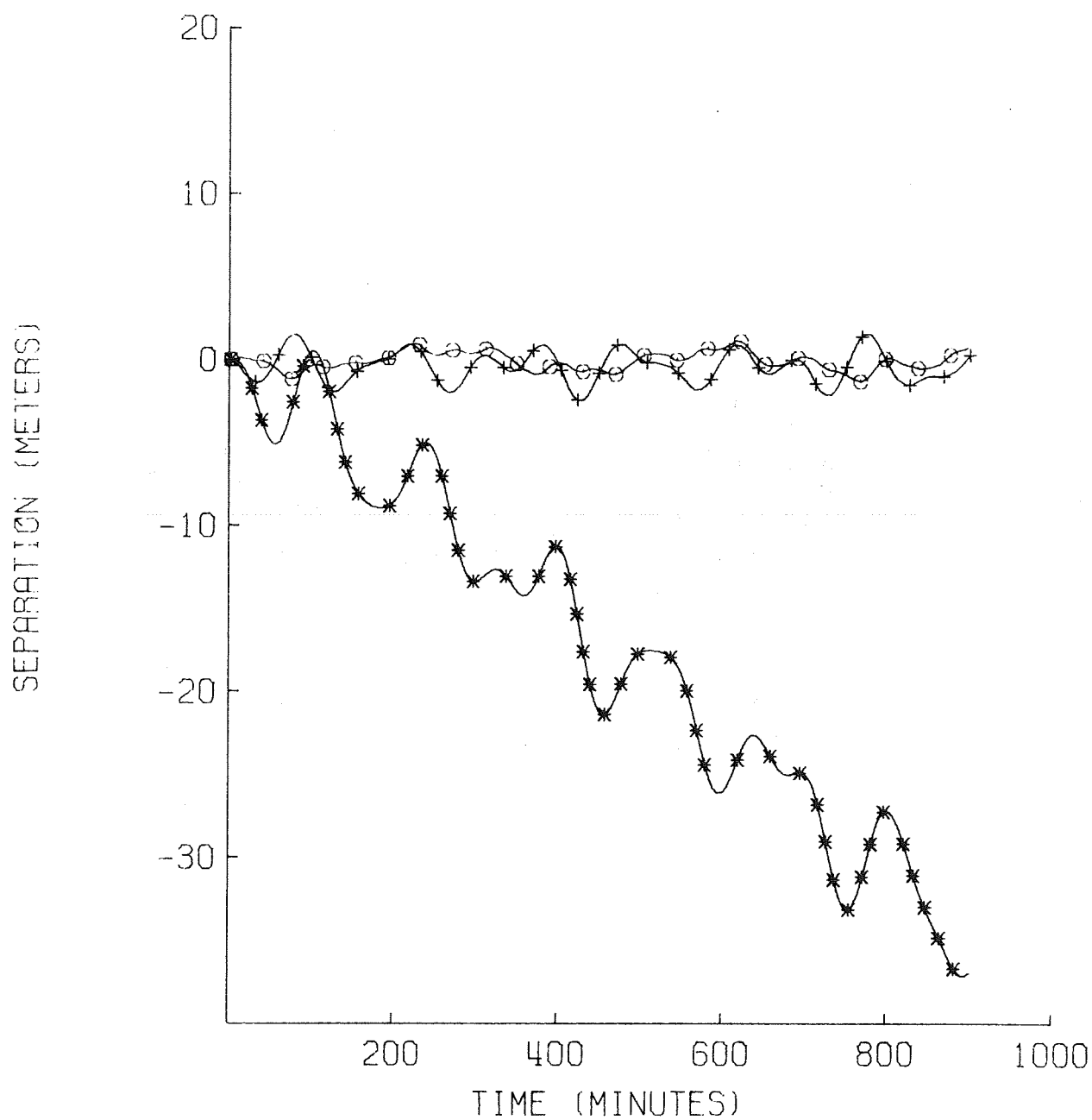
RUN FOR S(14,10) = -.0645

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7135.6535

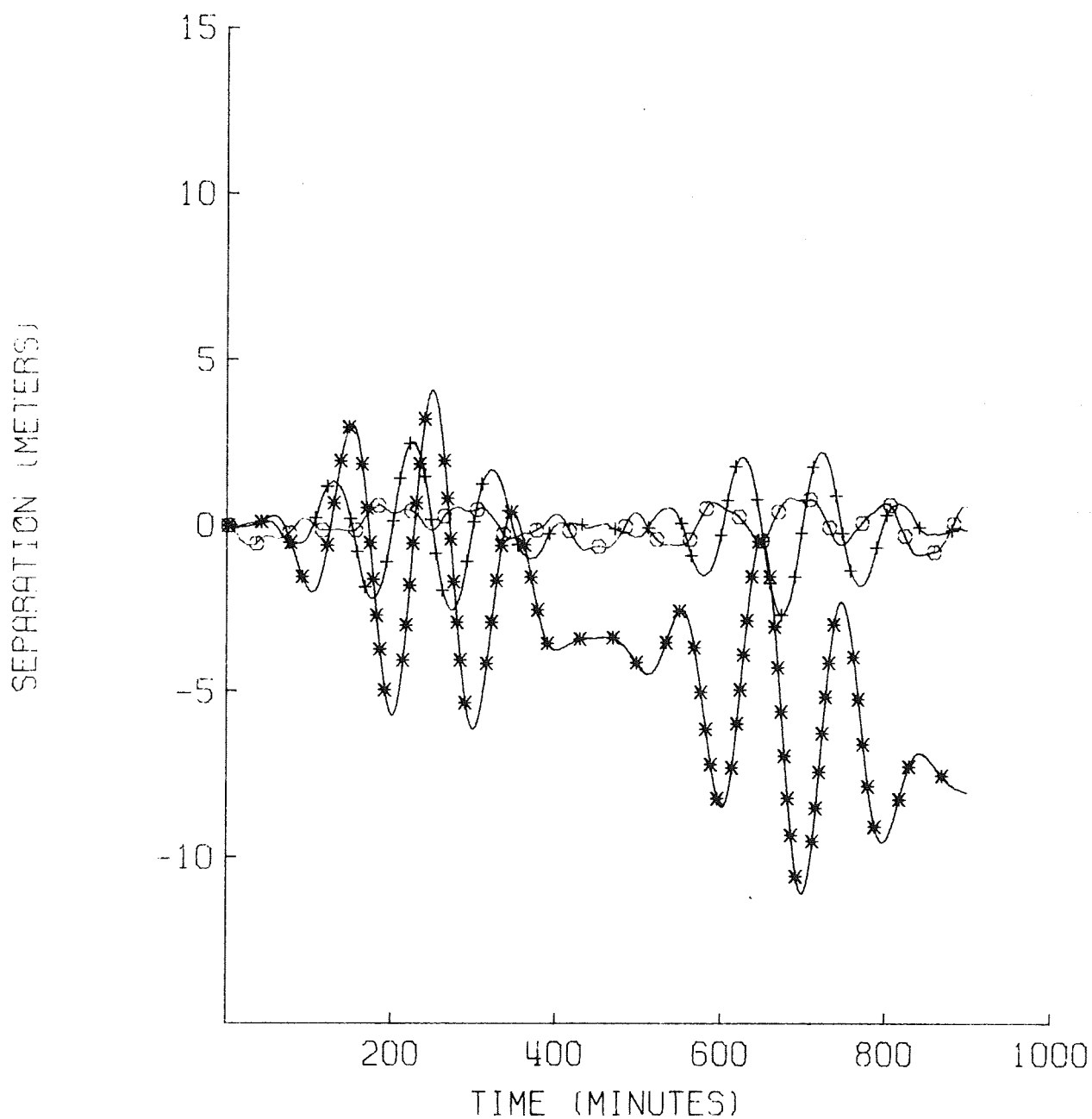
RUN FOR C(14.11) = .0520

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

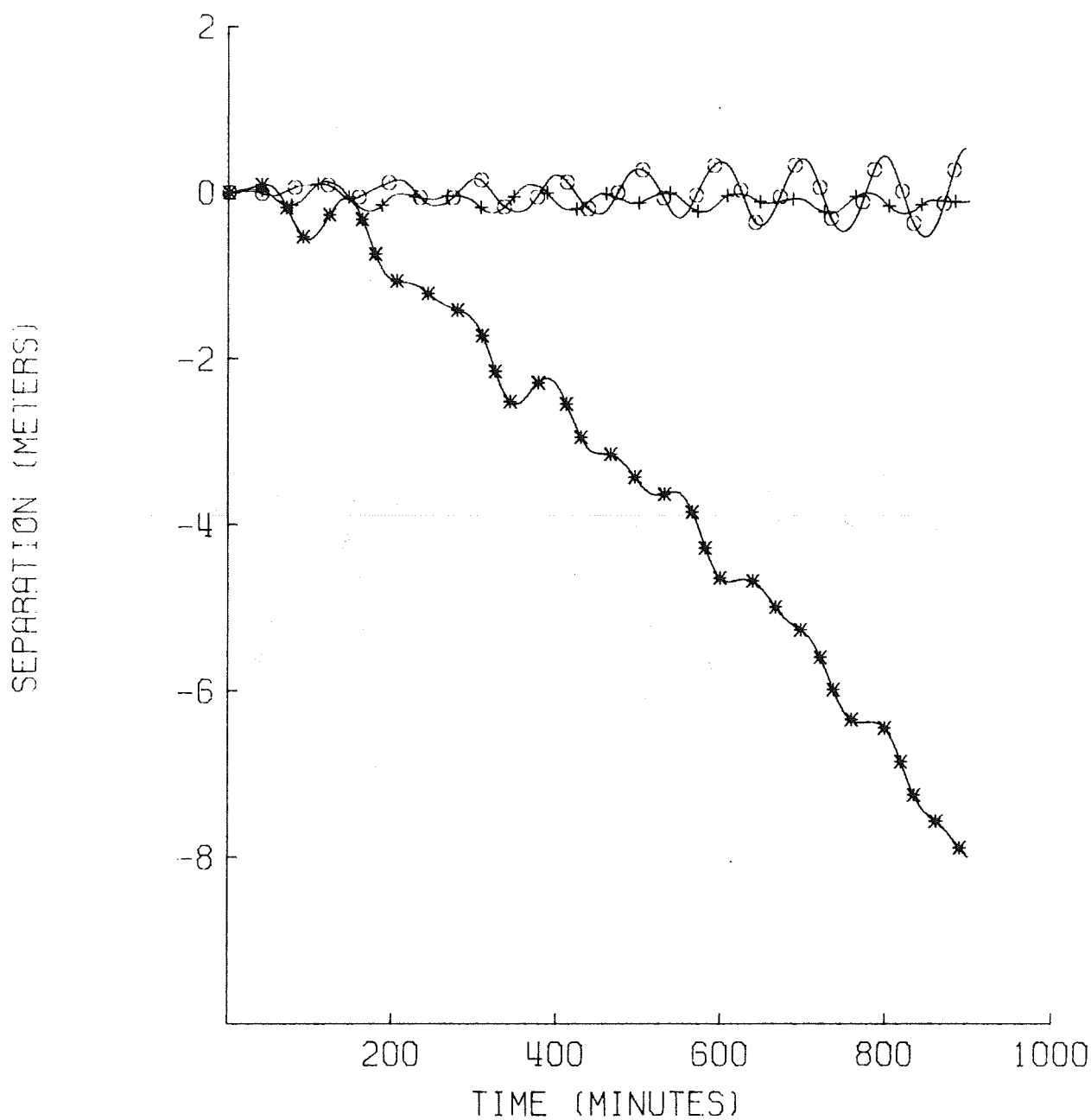
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(14, 11) = -.0058
 FACTOR USED IS 1.000000

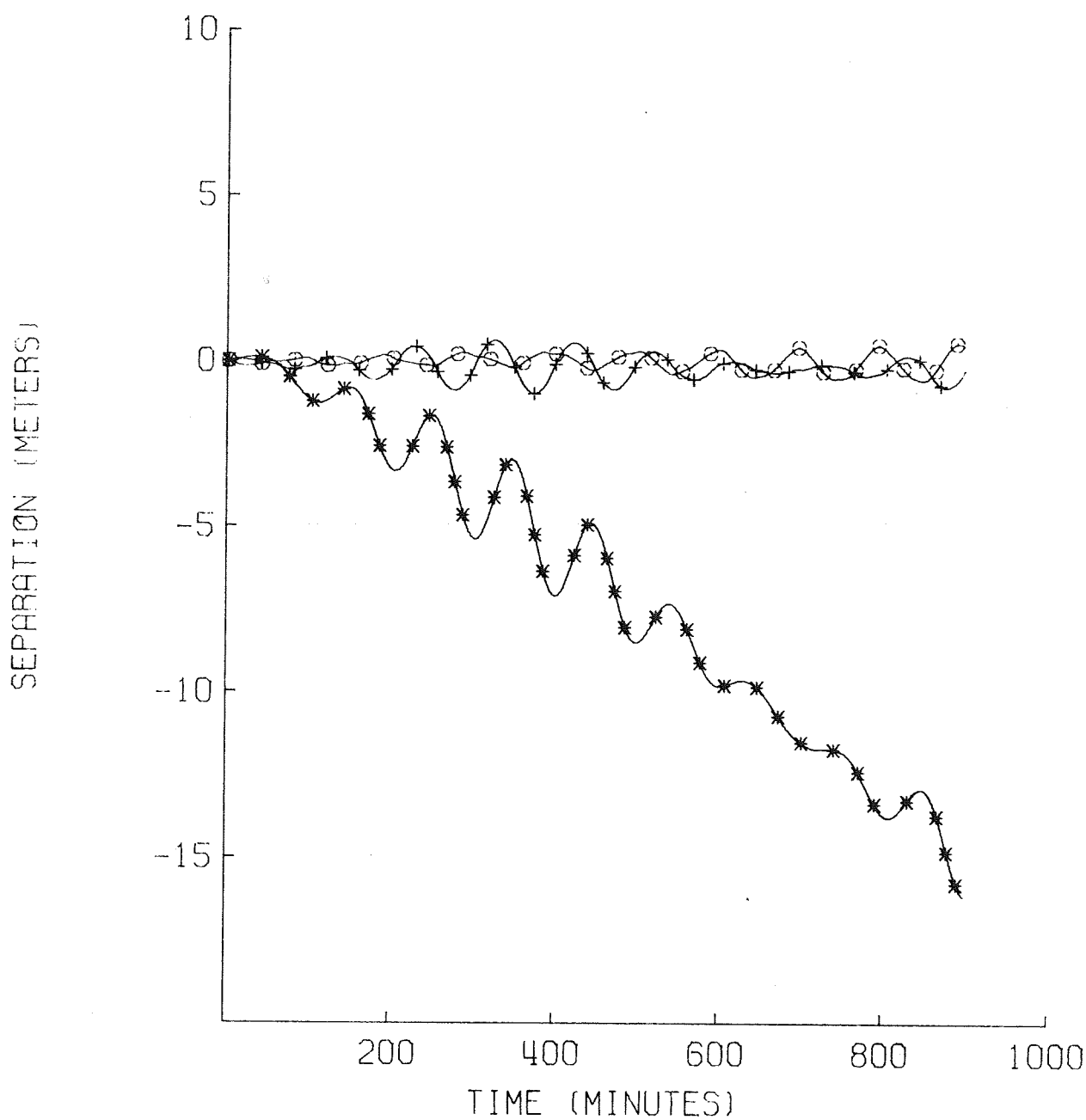
(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(14,12) = -.0195
 FACTOR USED IS 1.000000

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

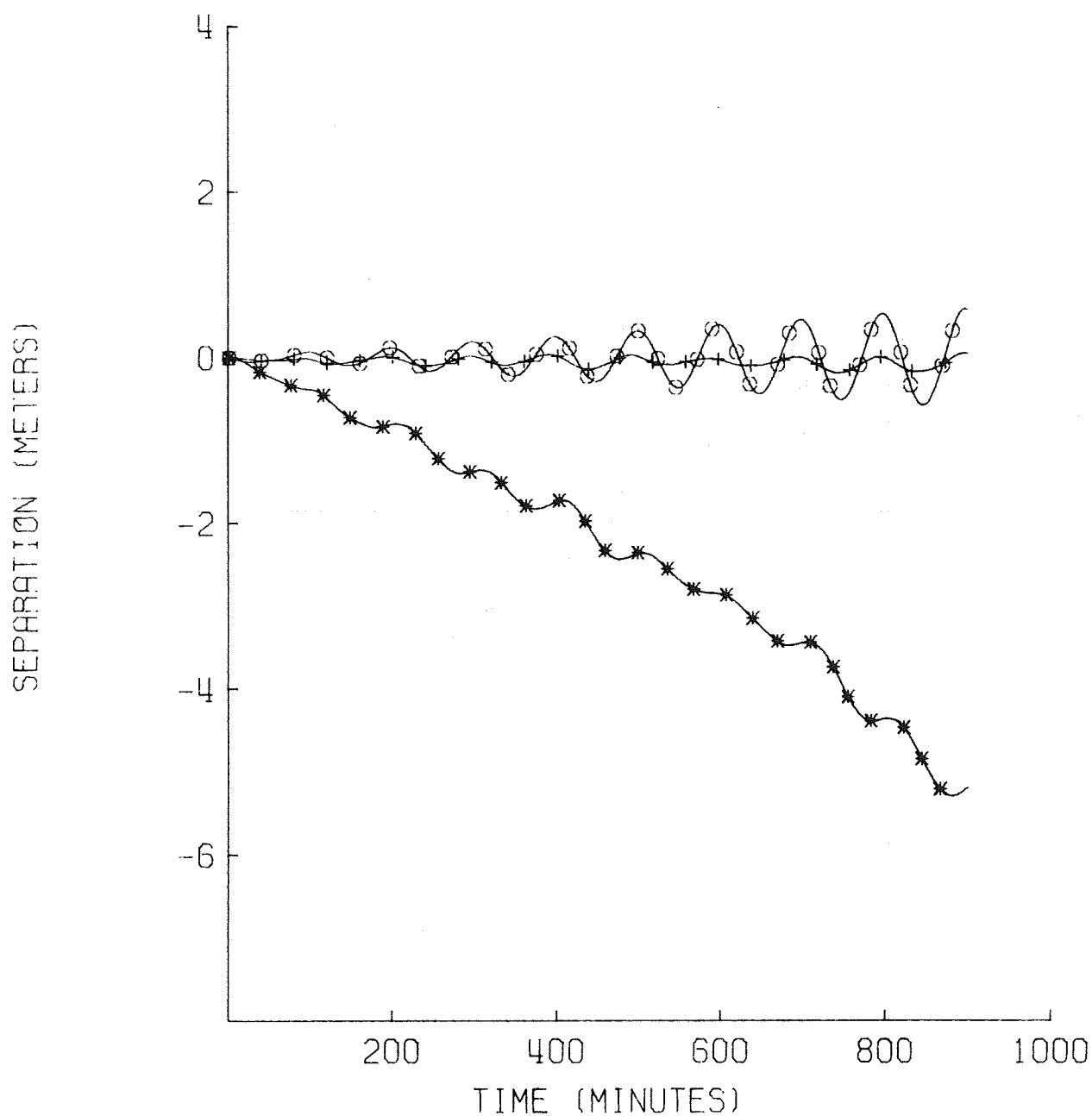
RUN FOR S(14 , 12) = -.0005

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C	OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535	

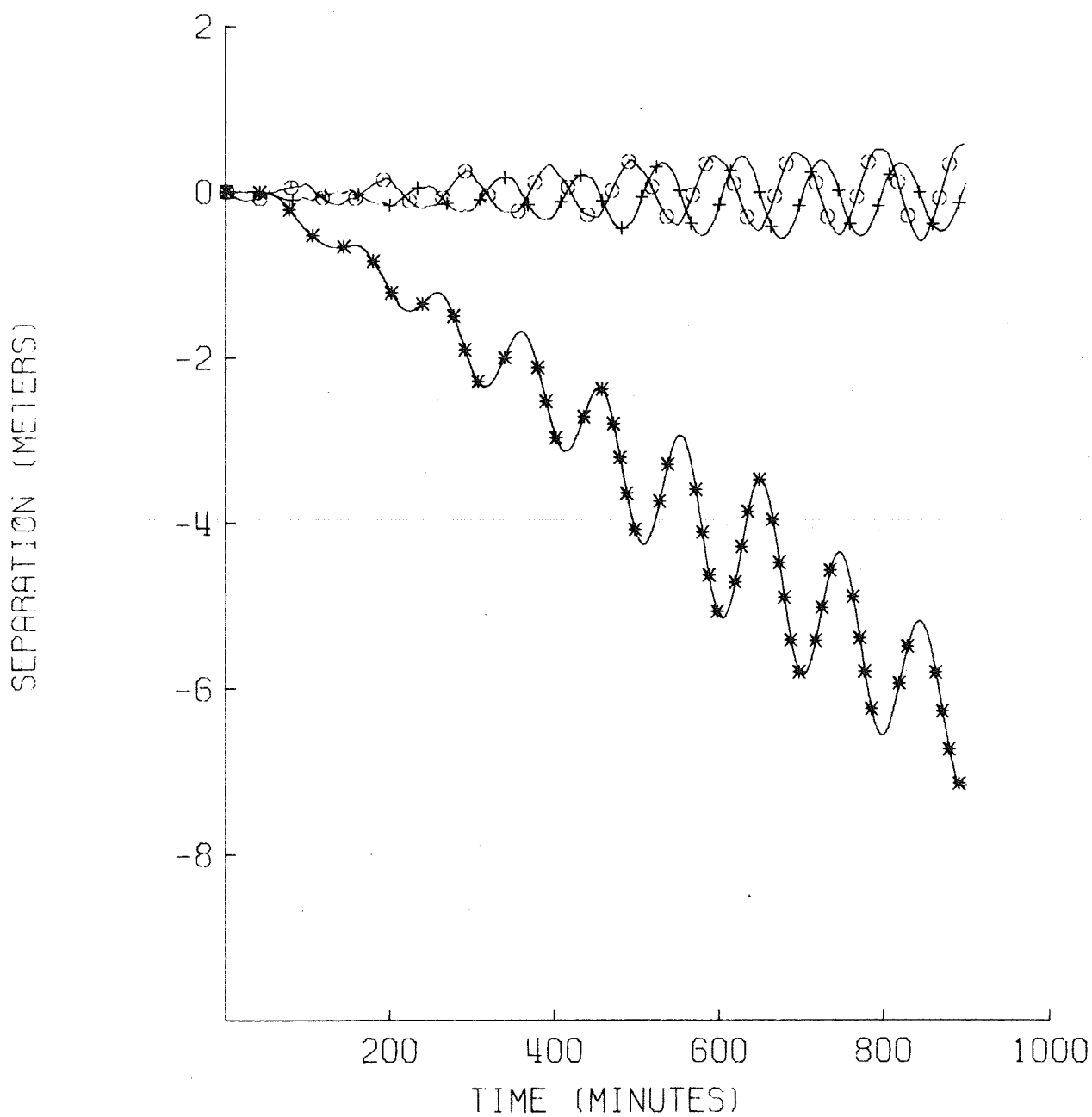
RUN FOR C(14,13) = .0185

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

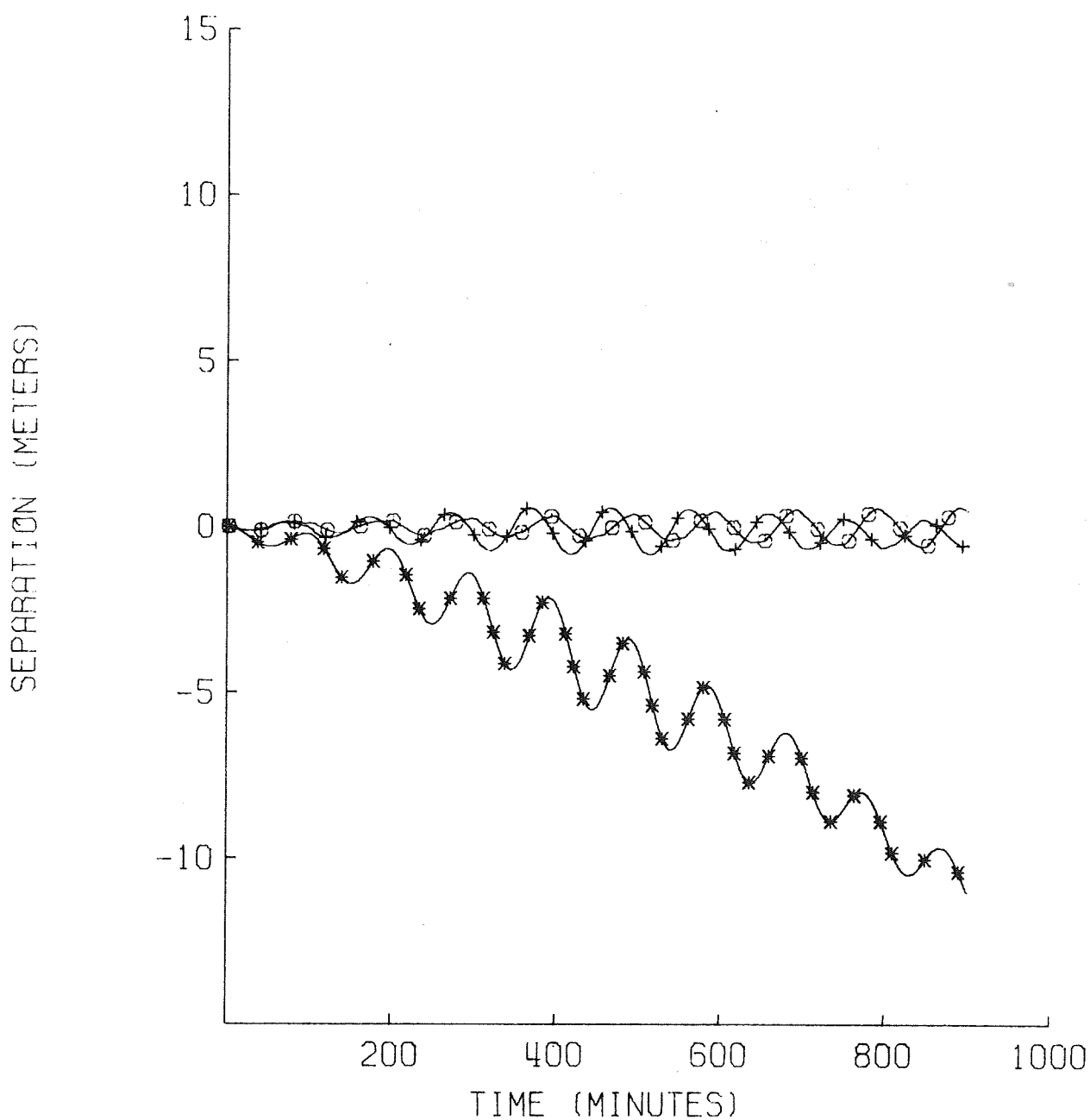
RUN FOR S(14,13) = .0274

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

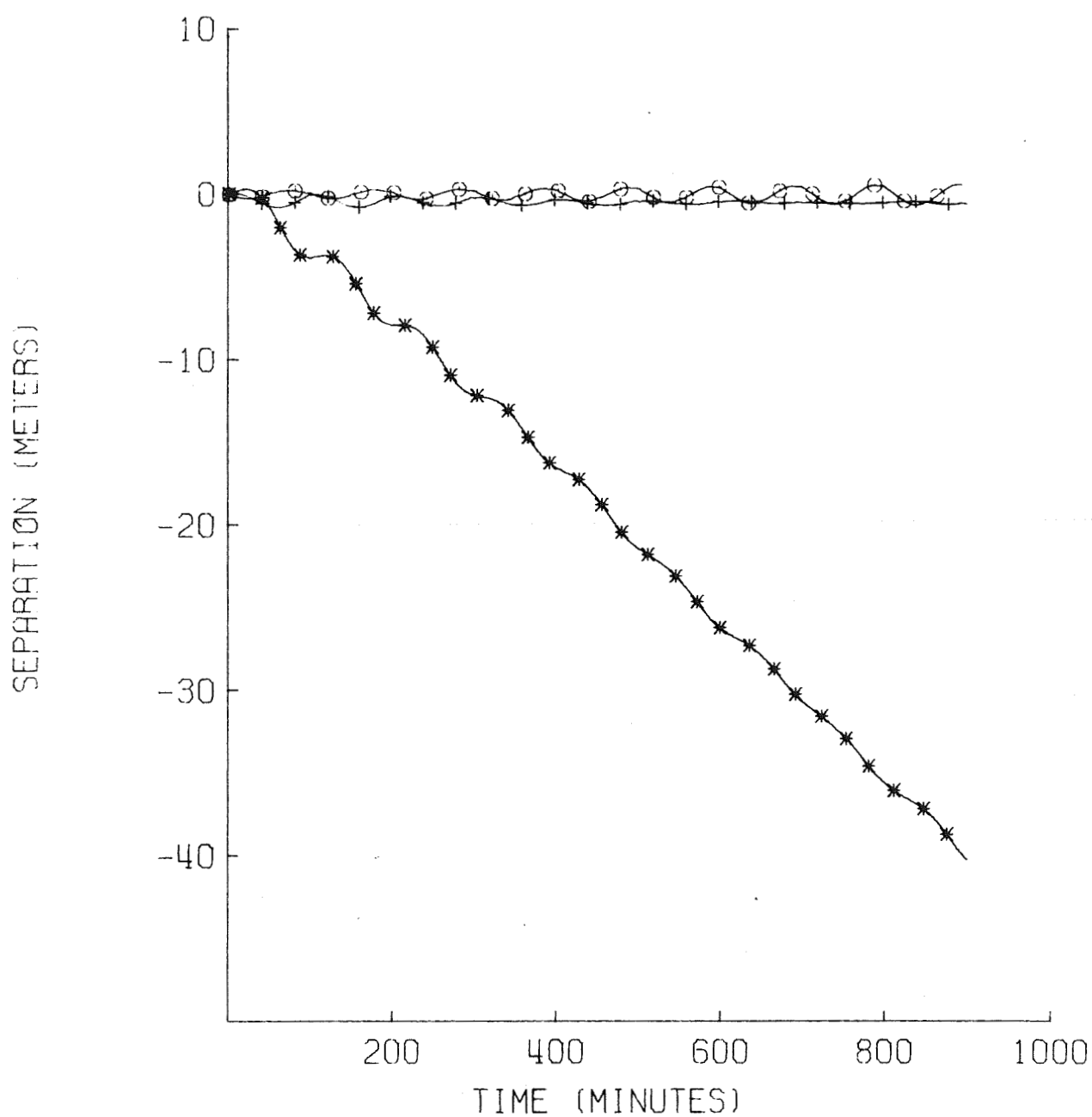
RUN FOR C(14,14) = -.0511

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

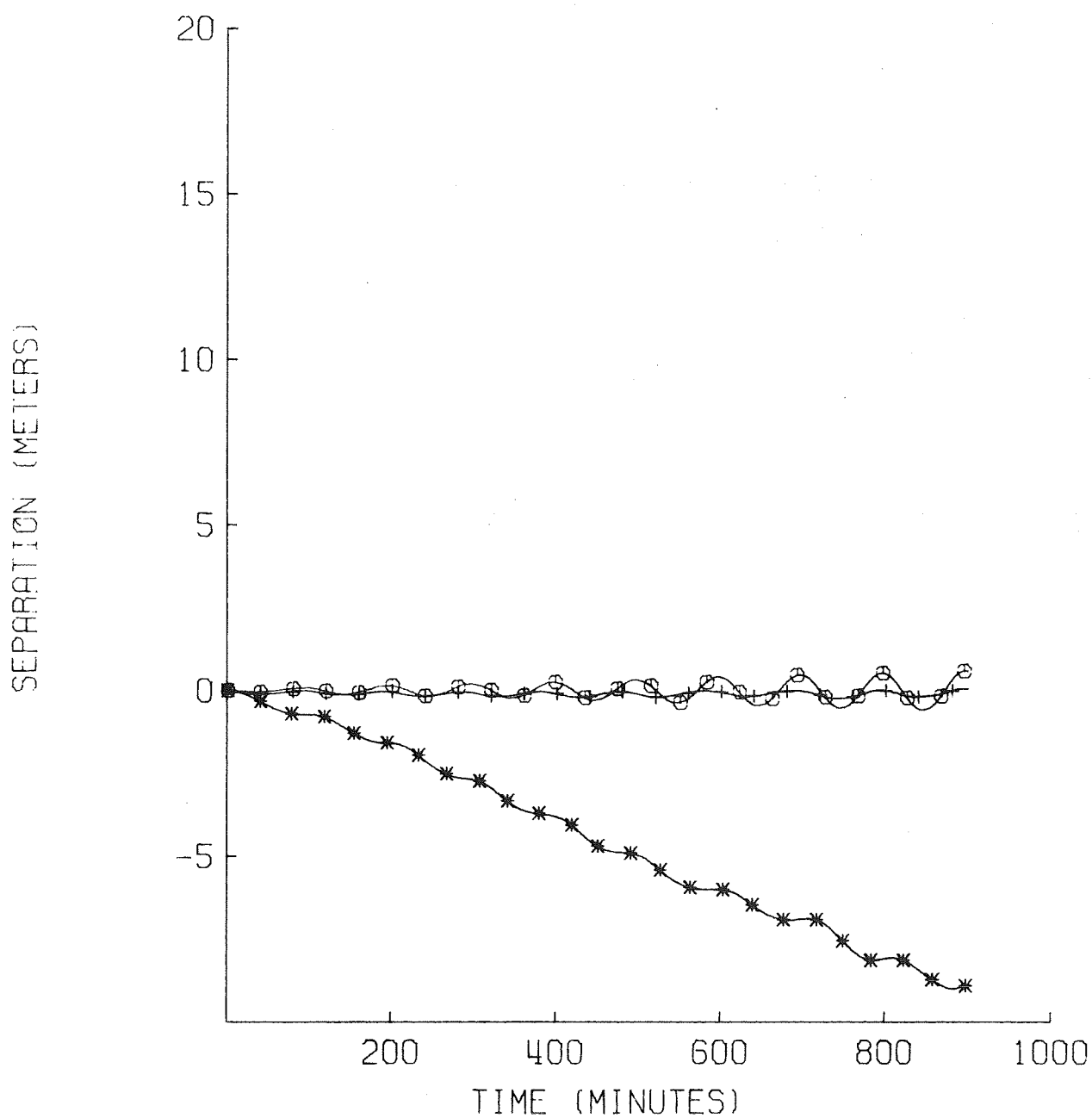
RUN FOR S(14,14) = -.0046

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



SECTION II

GRAPHICAL OUTPUT FOR HARMONIC VALUES
EQUAL TO PUBLISHED VALUES FOR
STANDARD ERROR OF HARMONICS

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

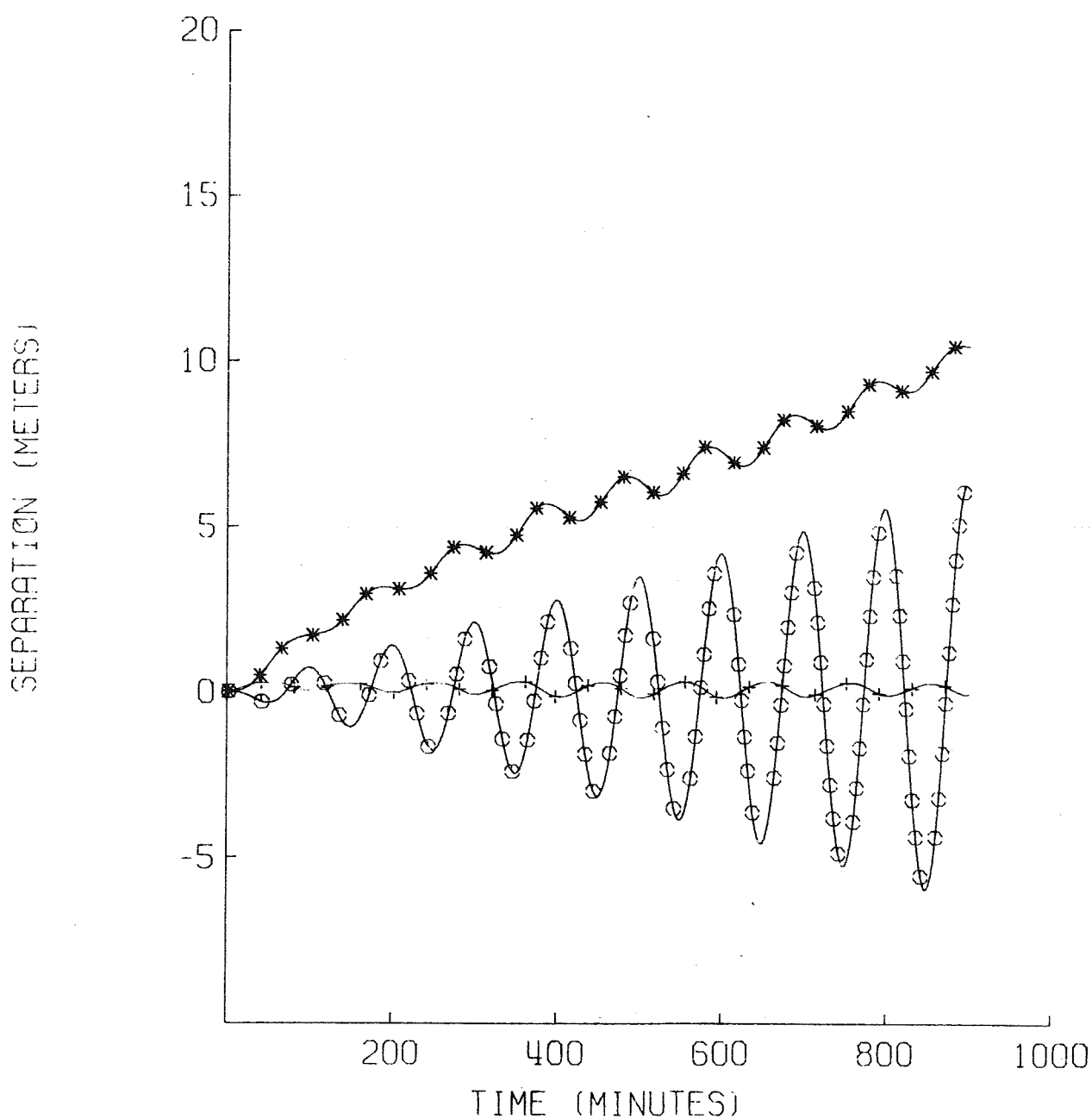
RUN FOR C(2 ,0) = -484.1803

FACTOR USED IS 1.000024

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

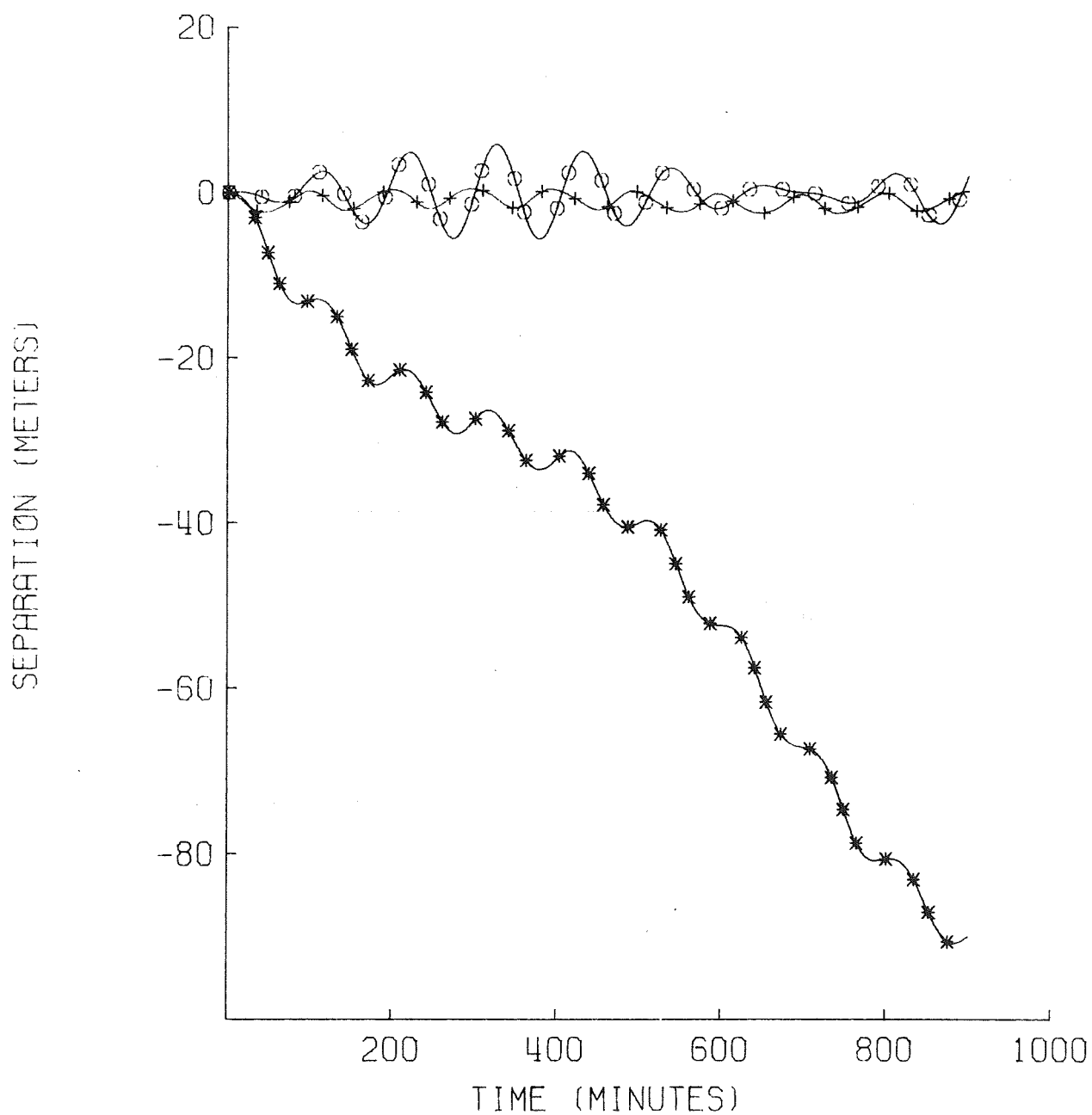
RUN FOR C(2 ,2) = 2.3241

FACTOR USED IS .023235

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

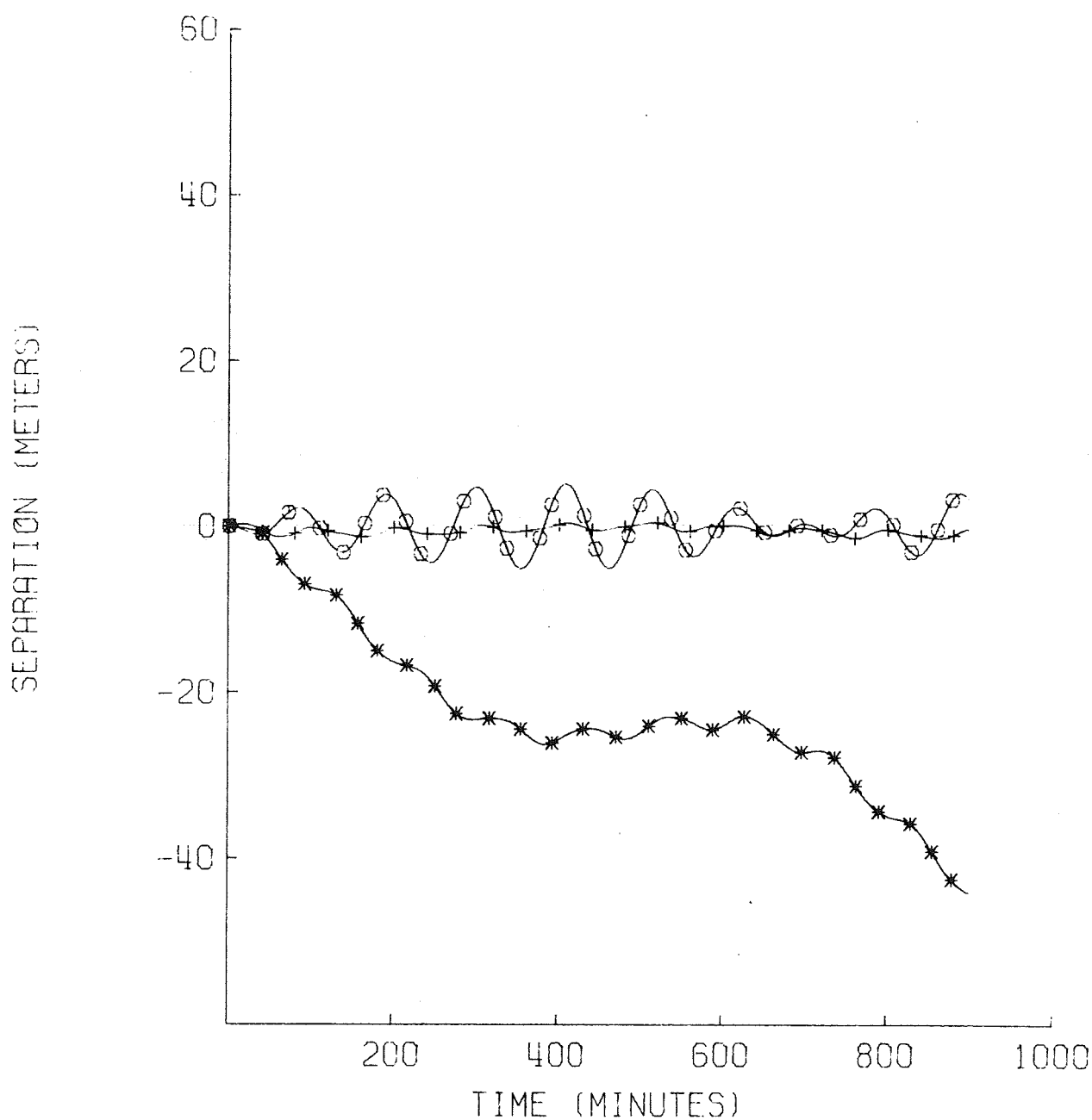
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(2 ,2) = -1.3106
 FACTOR USED IS .041203

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7135.6535

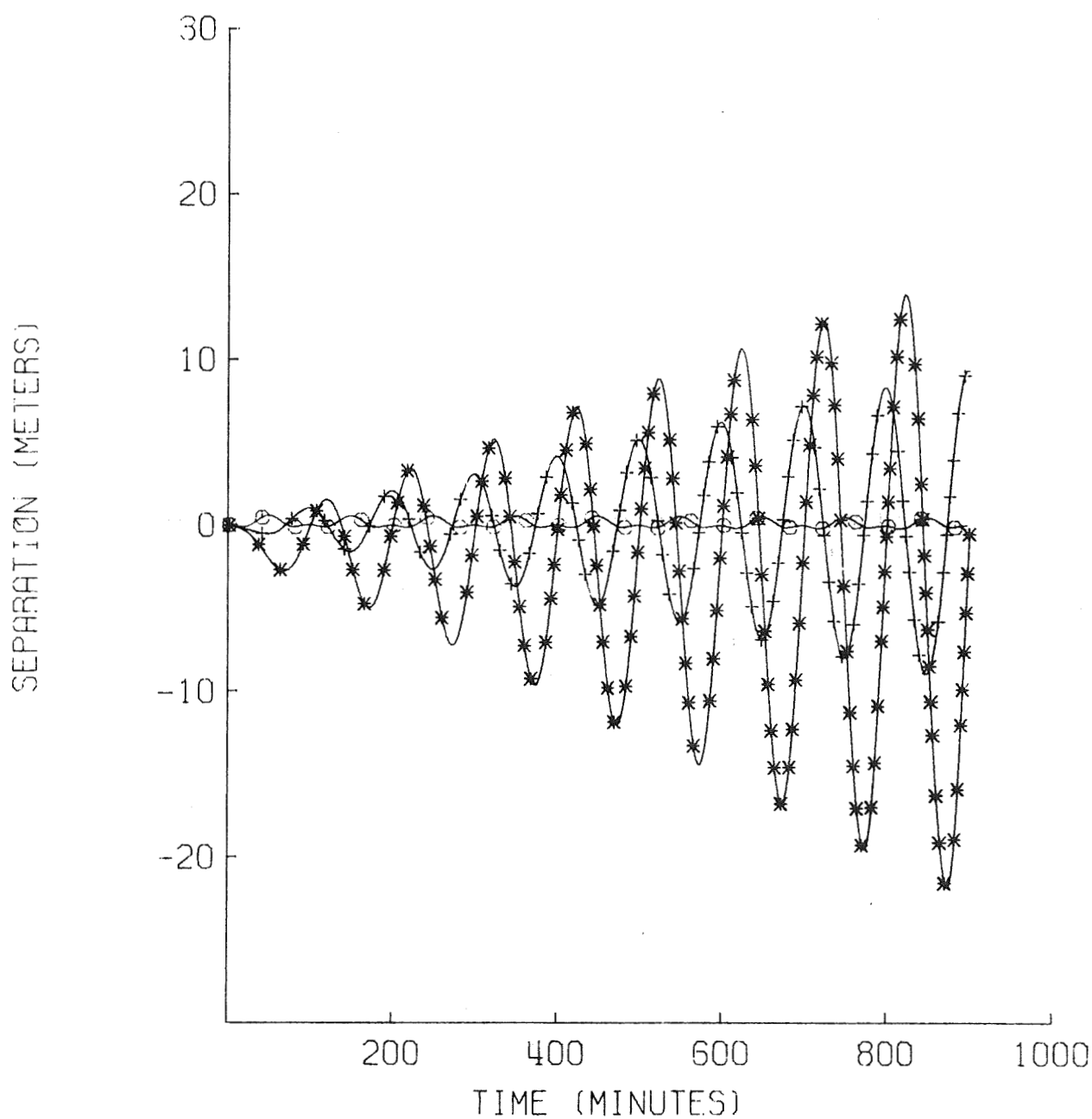
RUN FOR C(3 ,0) = .9025

FACTOR USED IS 1.034238

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

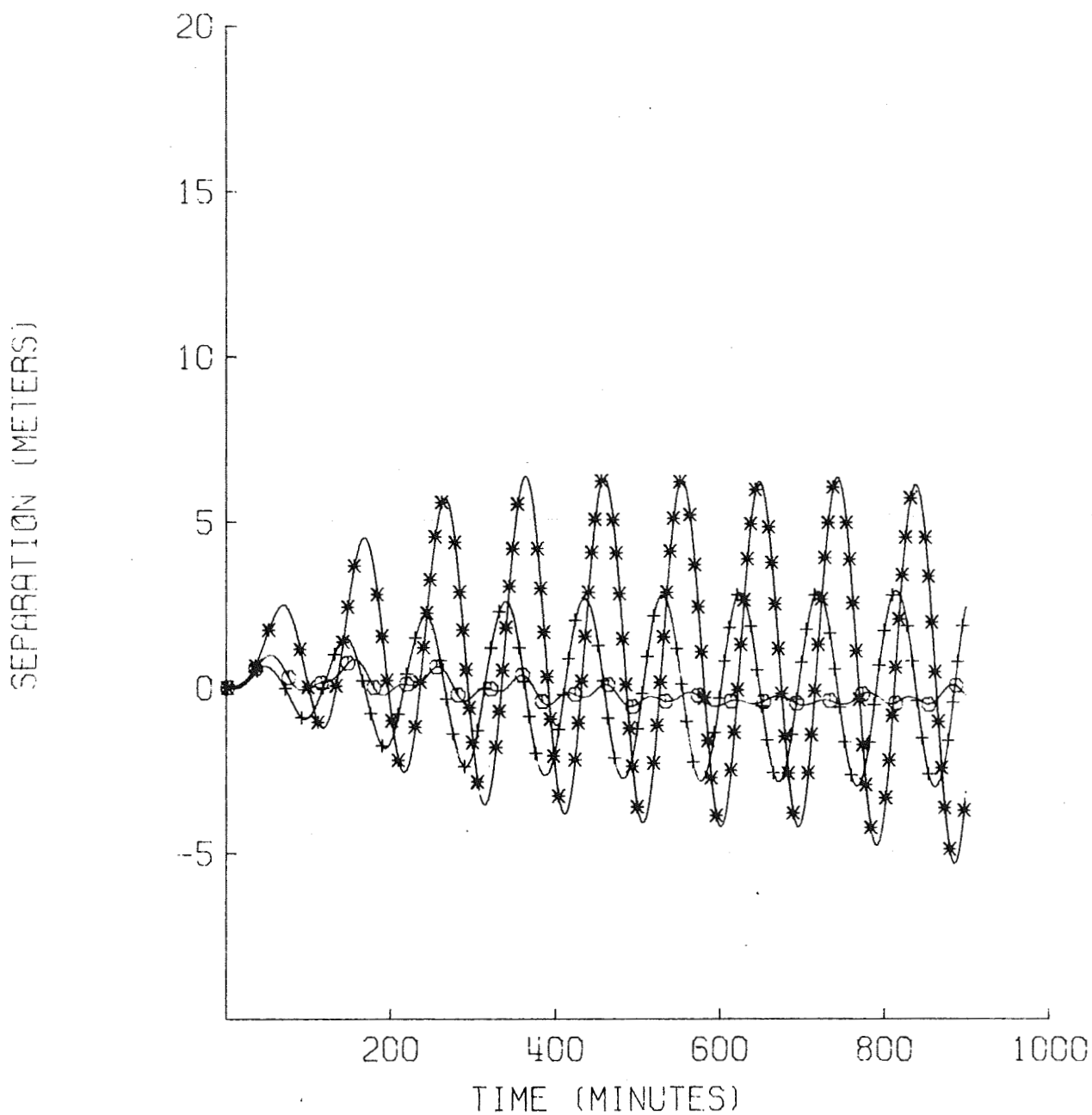
RUN FOR C(3 ,1) = 1.7842

FACTOR USED IS .027295

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

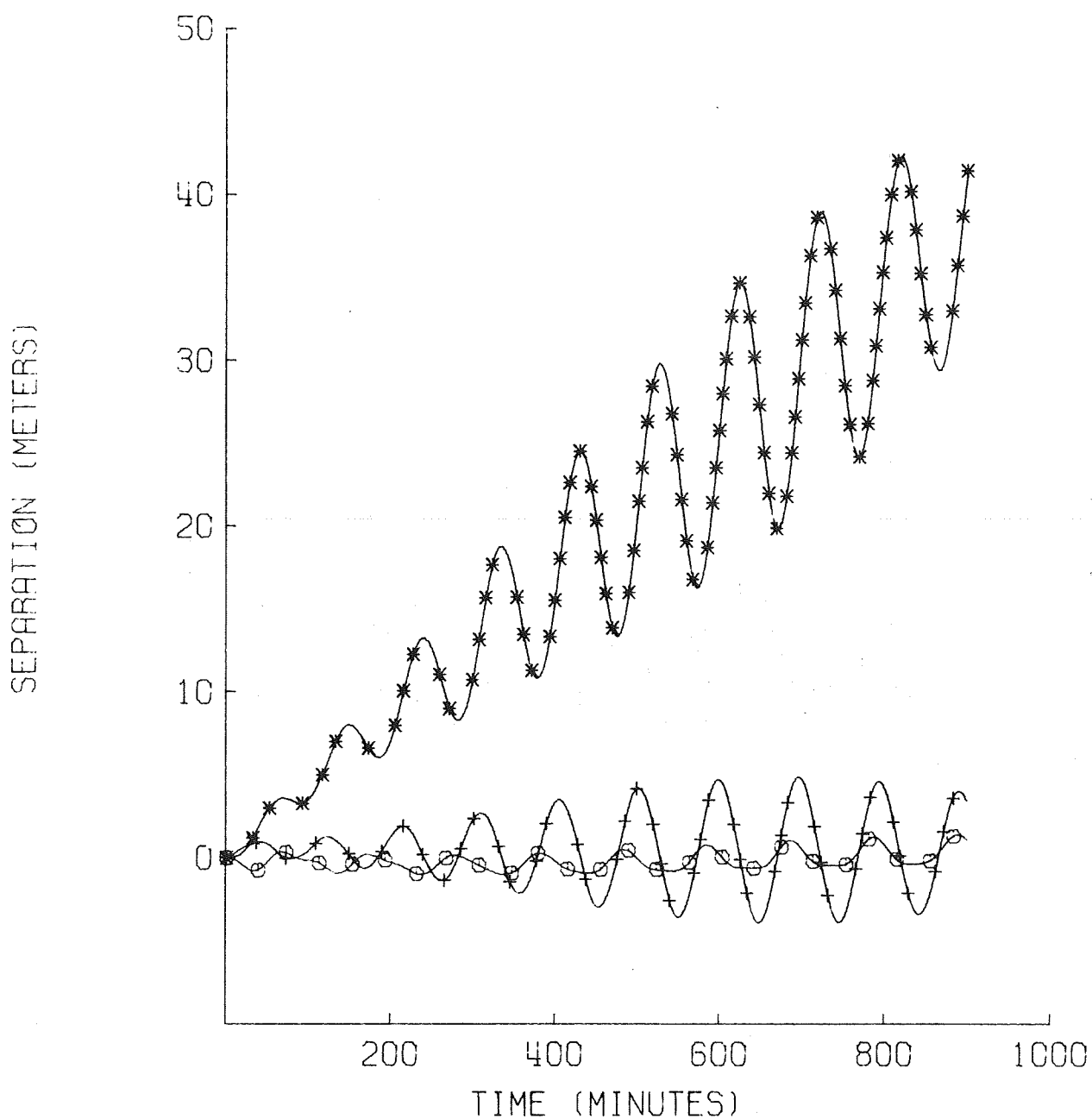
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7135.6535

RUN FOR S(3 , 1) = .2601
 FACTOR USED IS .199923

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

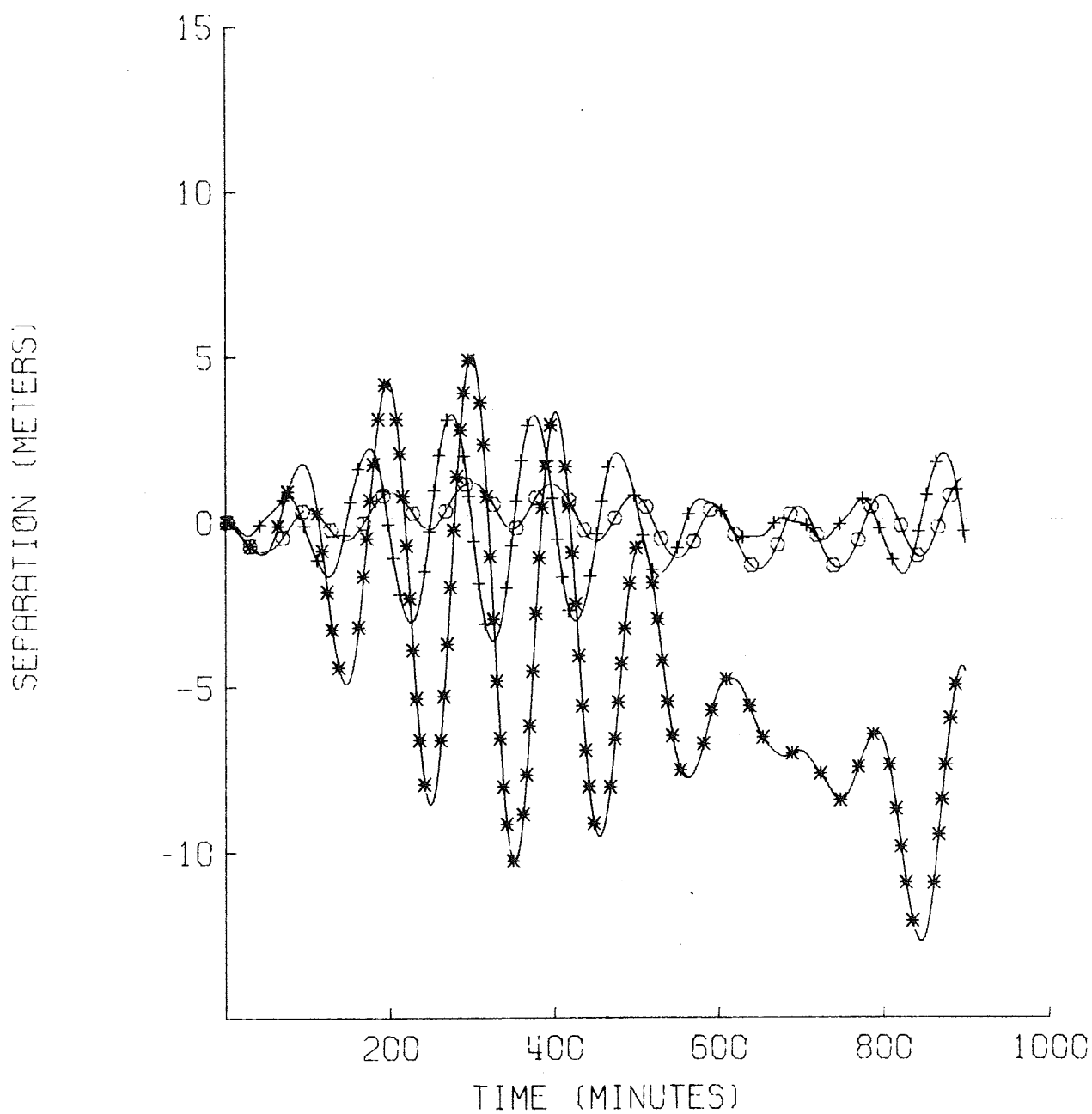
RUN FOR C(3 , 2) = .7224

FACTOR USED IS .066445

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(⊖) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

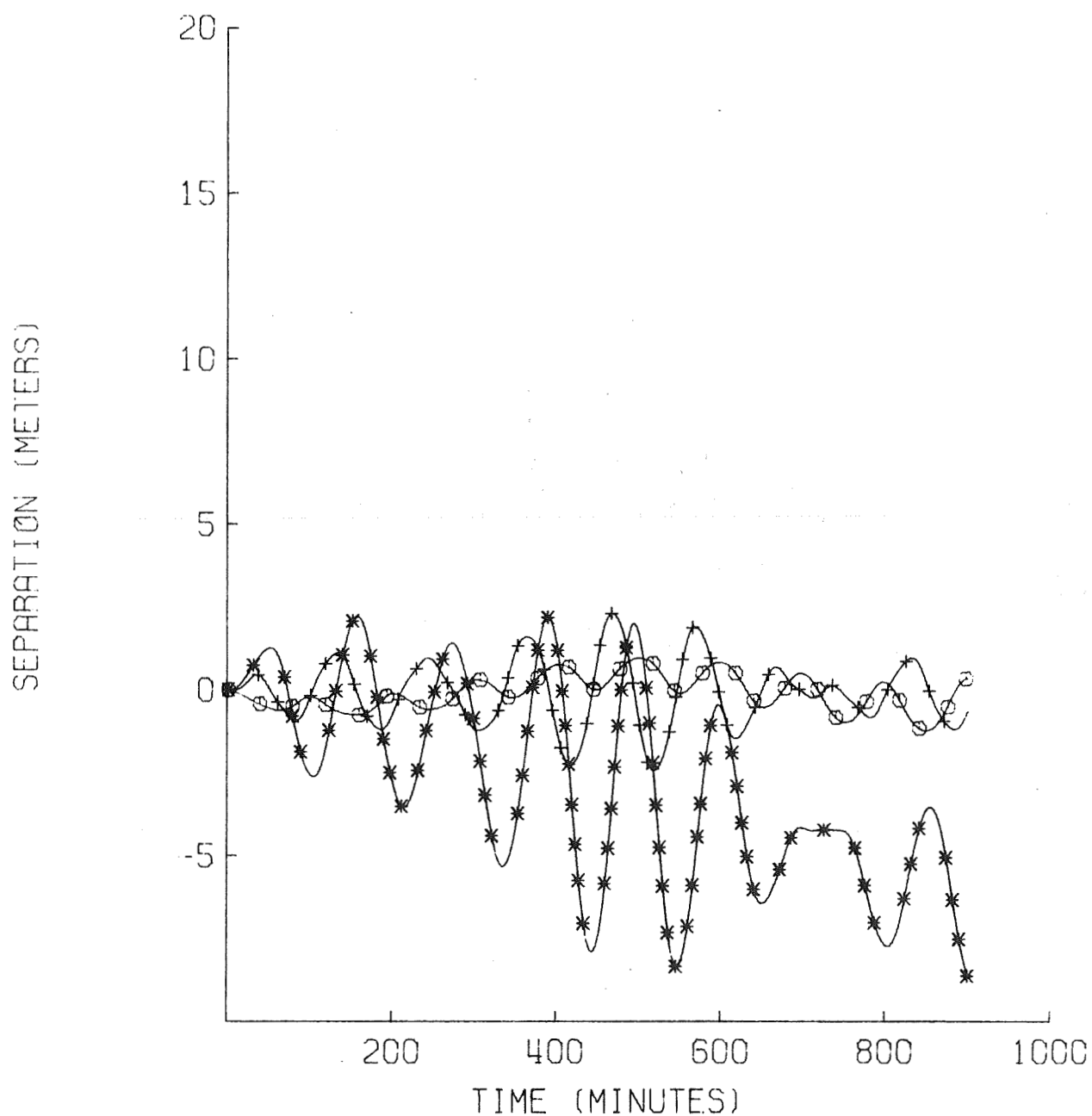
RUN FOR S(3 ,2) = -.5755

FACTOR USED IS .078193

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7135.6535

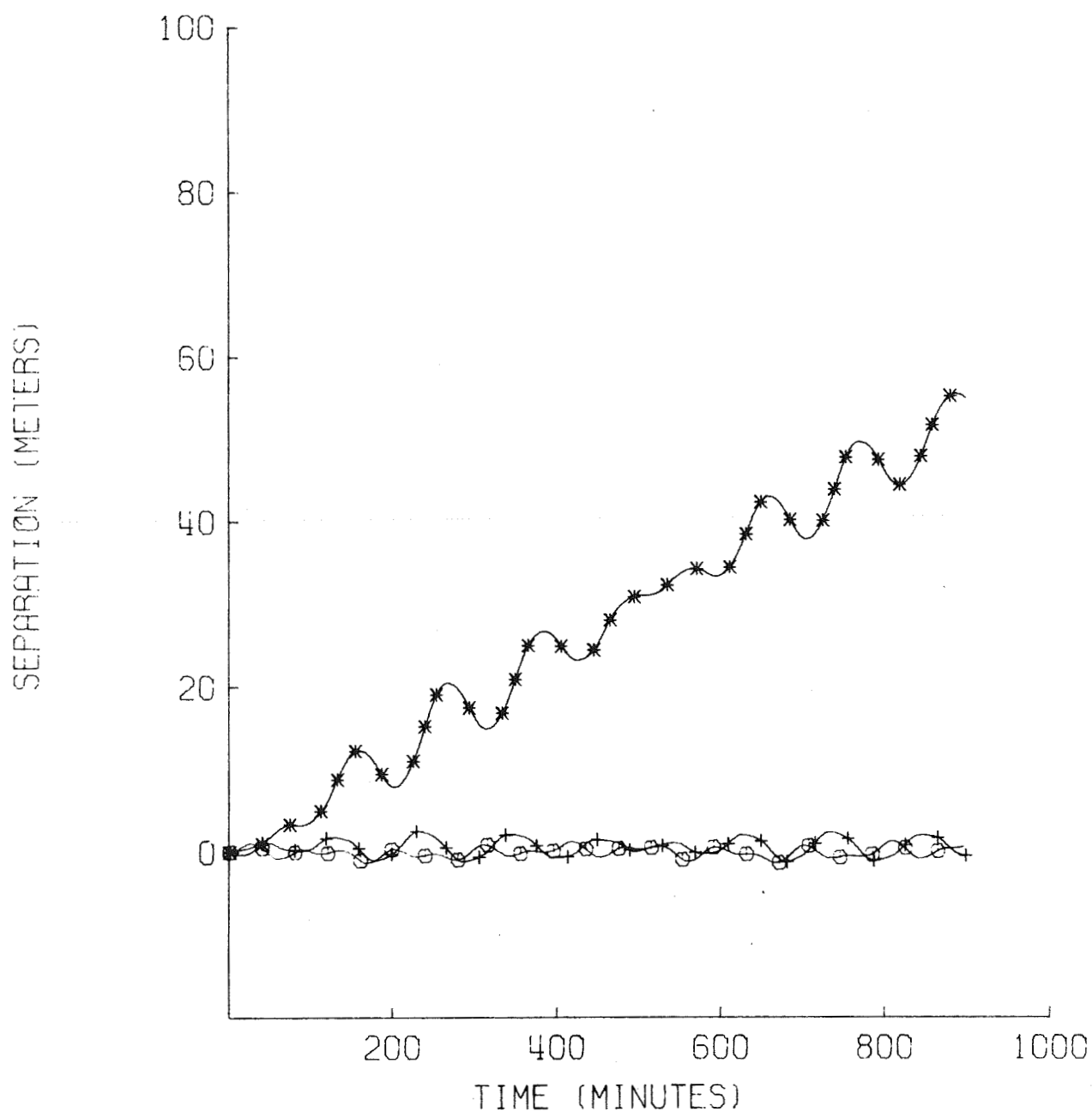
RUN FOR C(3 , 3) = .7240

FACTOR USED IS .088122

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

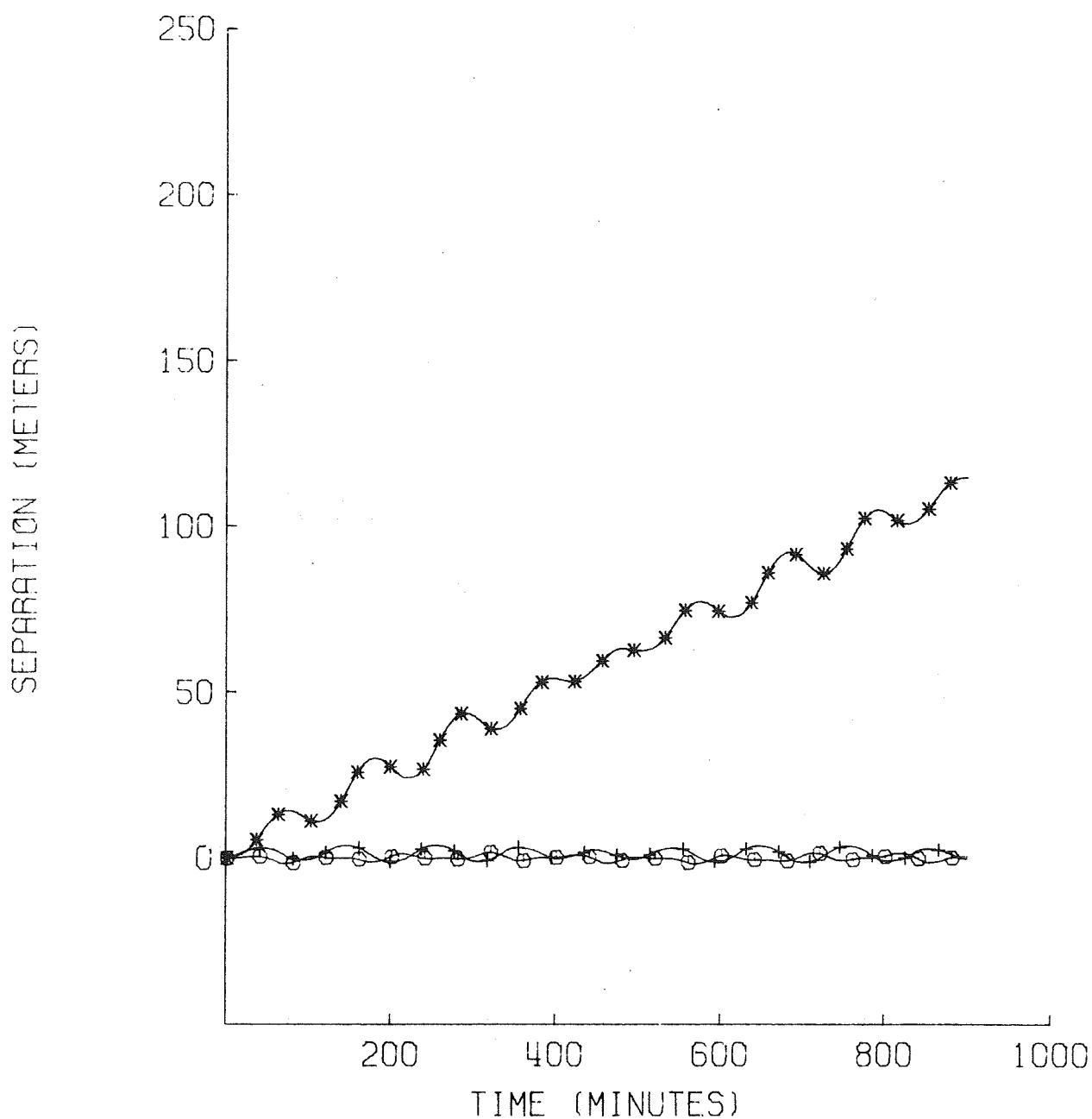
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR S(3 , 3) = 1.3860
 FACTOR USED IS .048341

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

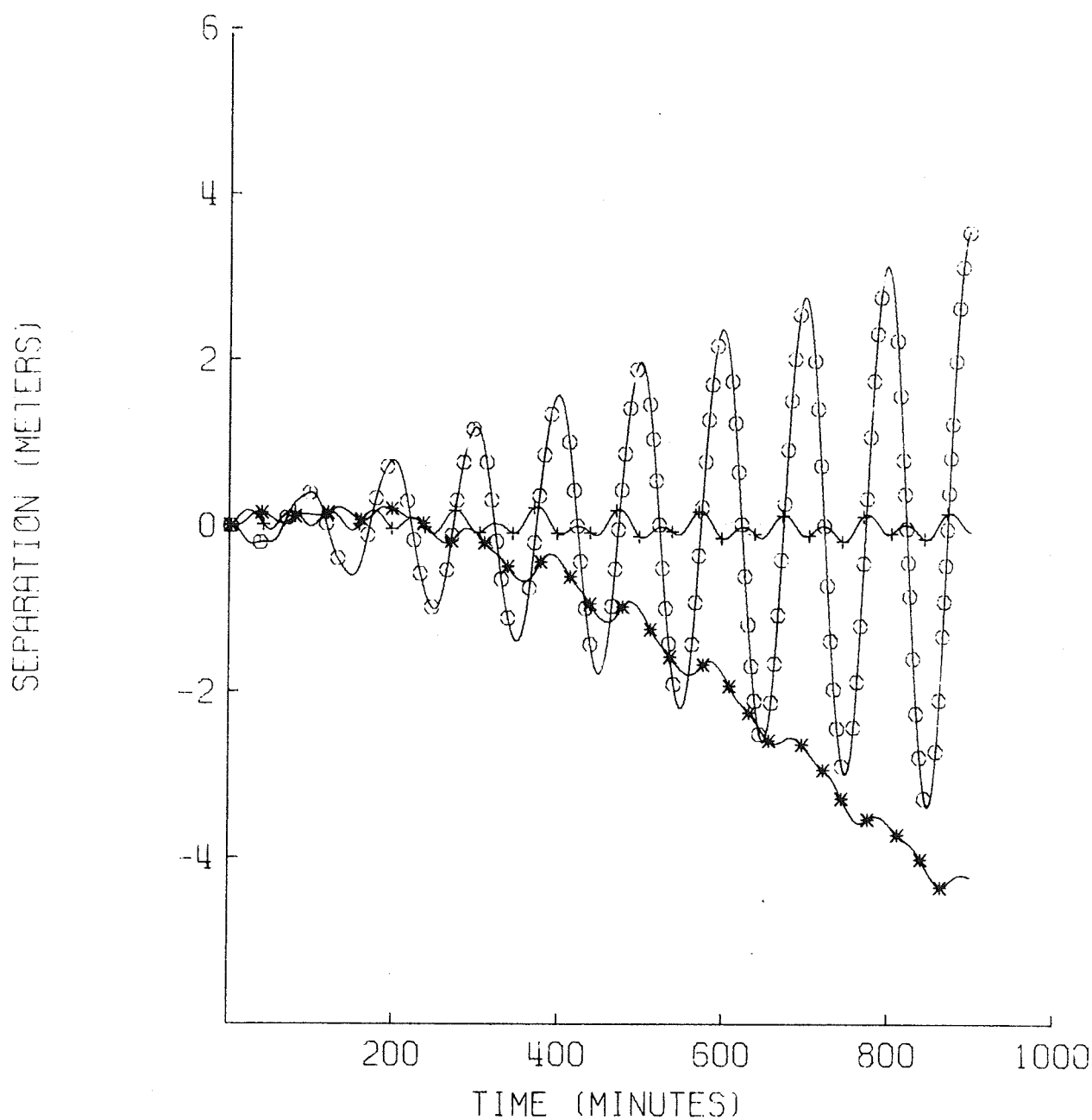
RUN FOR C(4 , 0) = .5608

FACTOR USED IS 1.034415

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

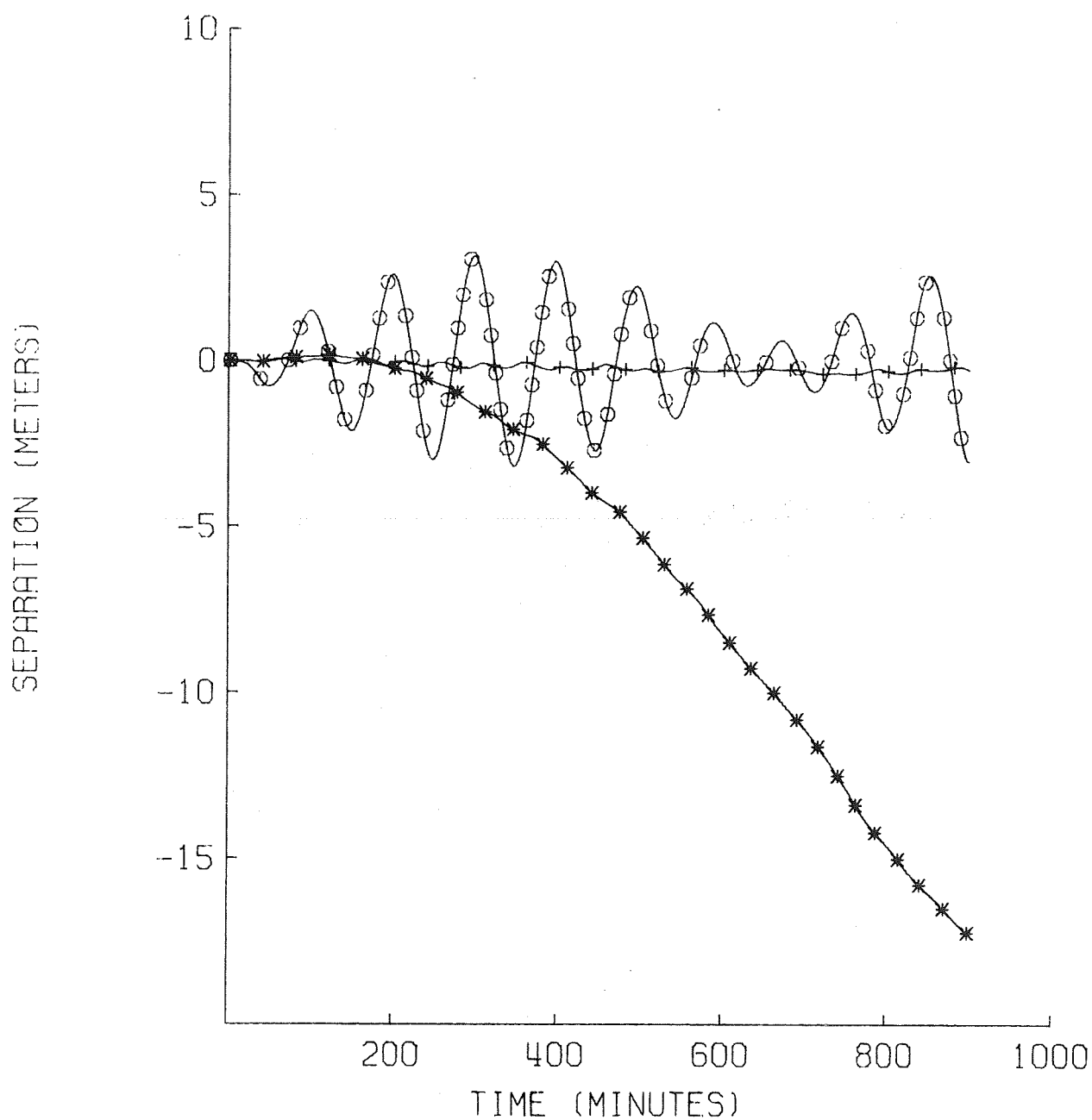
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(4 , 1) = -.5289
 FACTOR USED IS .057289

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7135.6535

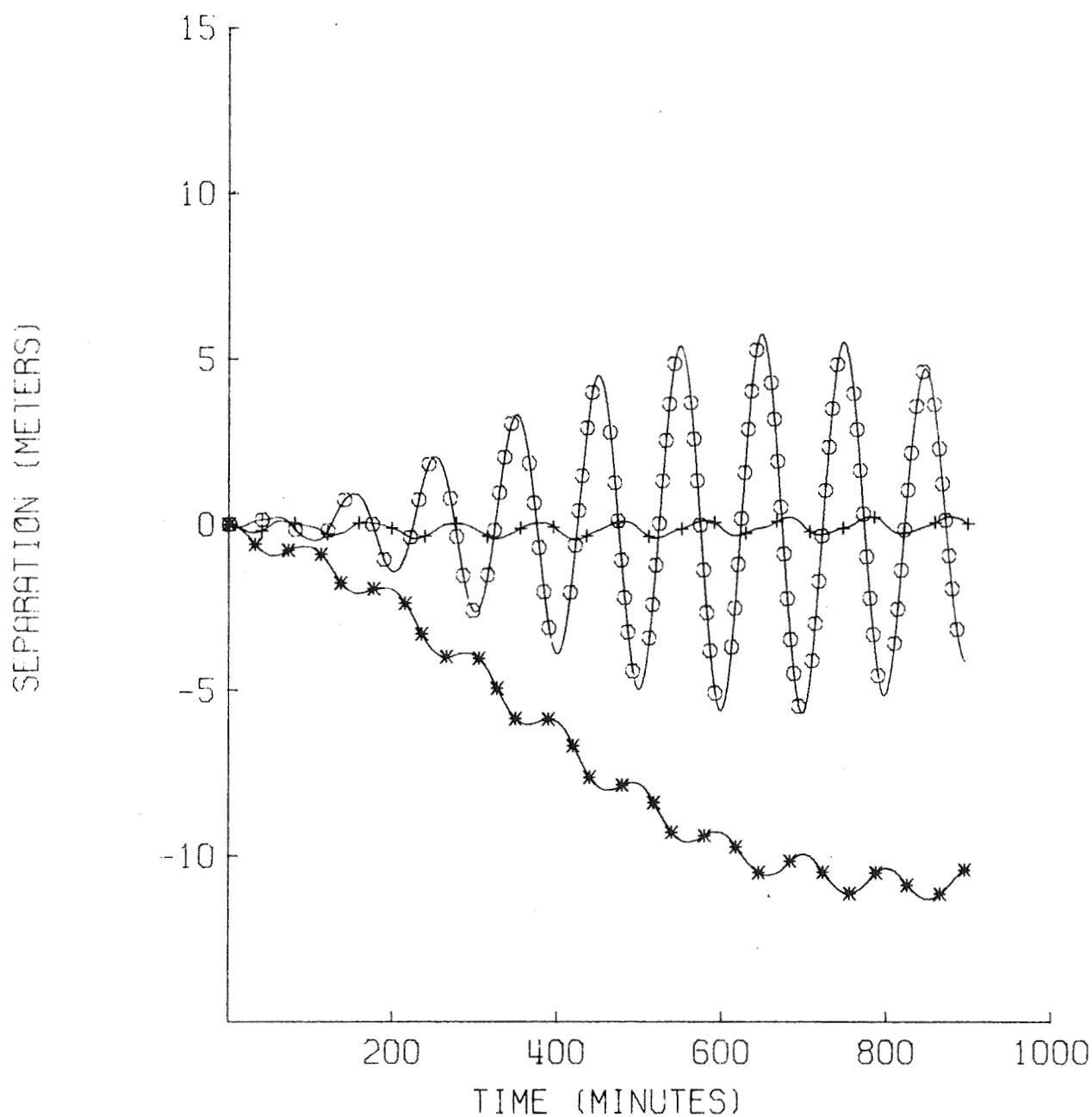
RUN FOR S(4 , 1) = -.4290

FACTOR USED IS .062238

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

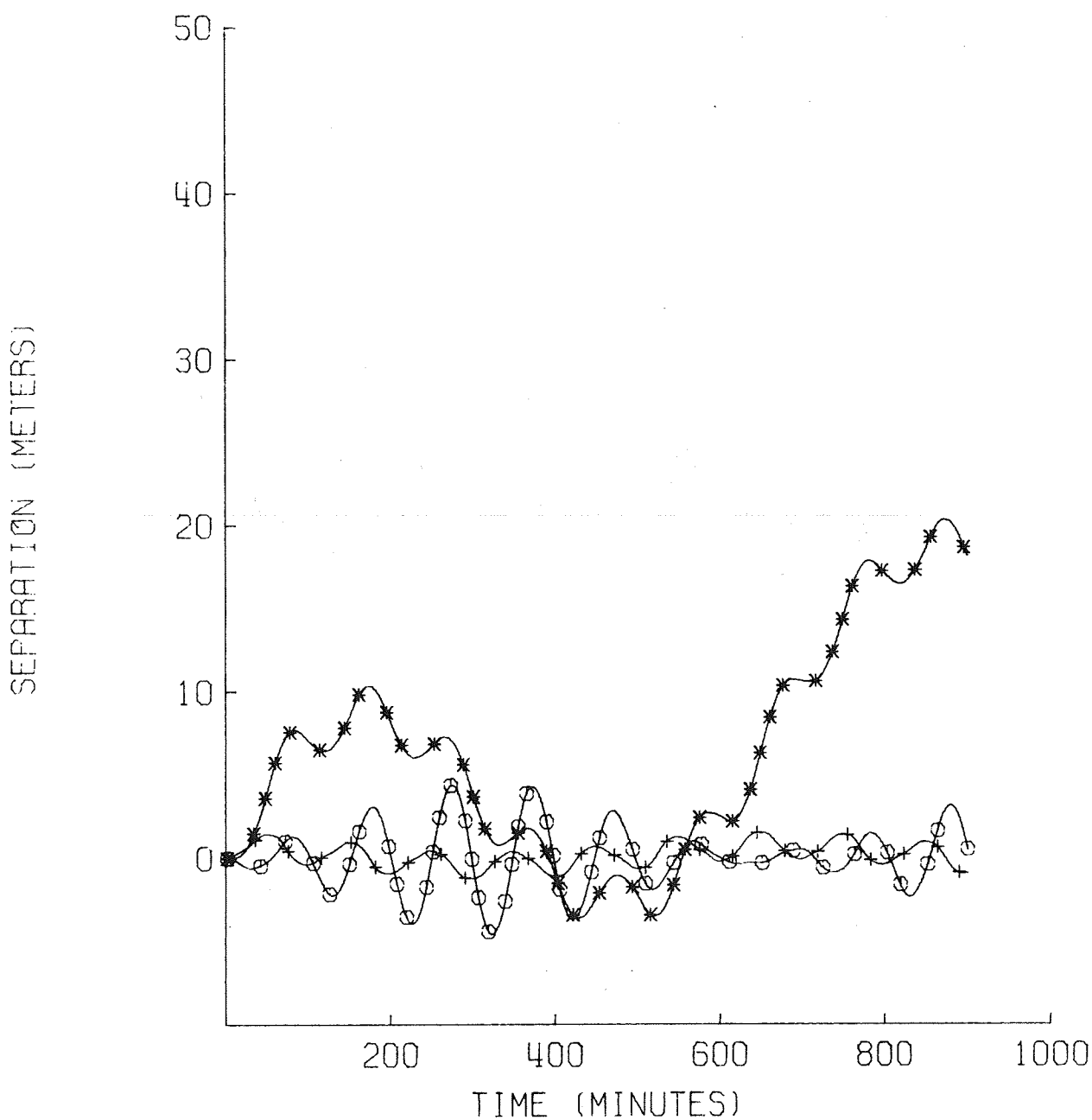
(⊙) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(4 , 2) = .1966
 FACTOR USED IS .217701

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C	OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535	

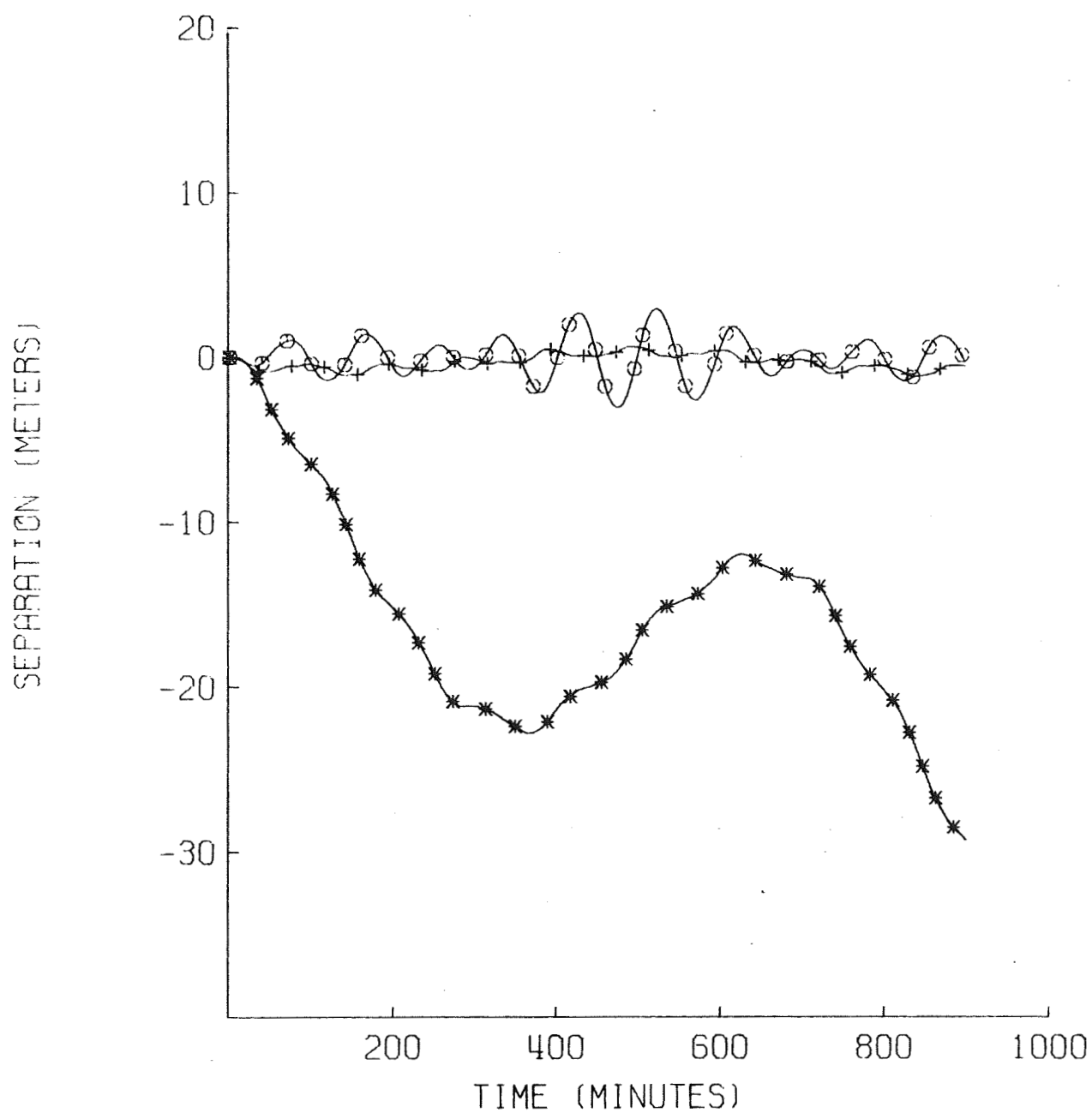
RUN FOR S(4 ,2) = .5120

FACTOR USED IS .084180

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

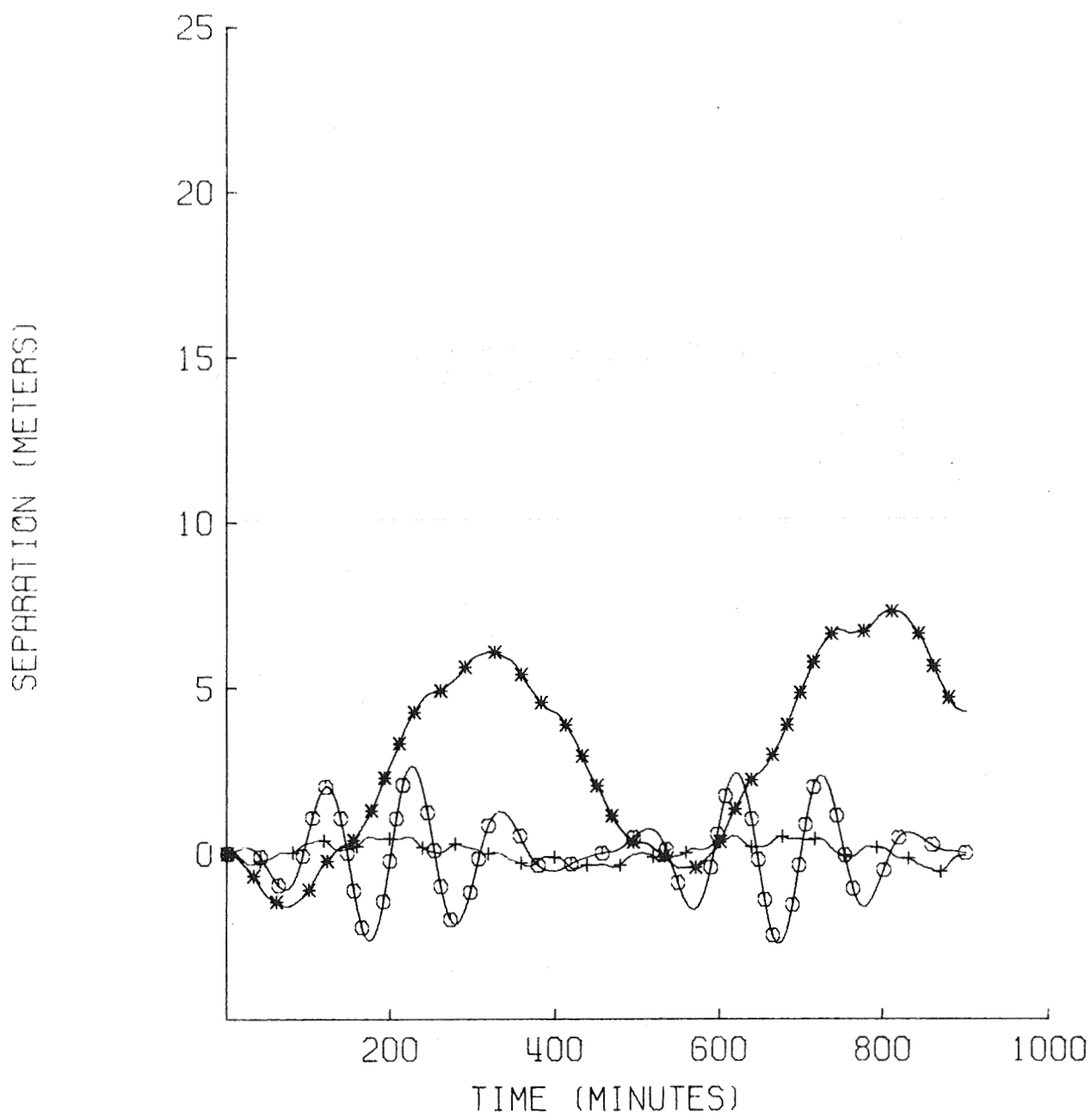
(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

RUN FOR C(4 , 3) = .8804
 FACTOR USED IS .033962

(*) IN-TRACK
 (+) PRINCIPAL NORMAL CROSS-TRACK
 (O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

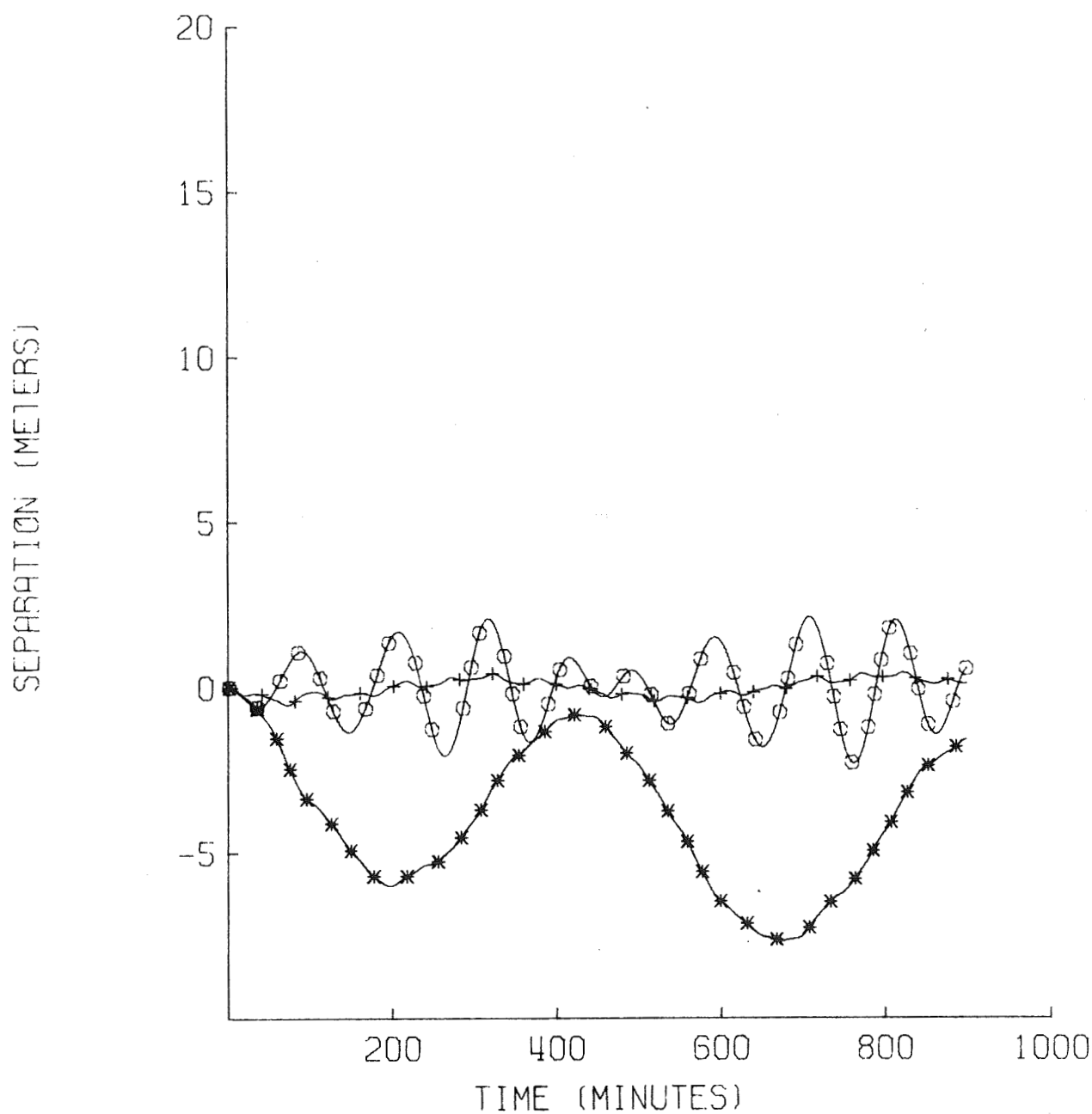
RUN FOR S(4 , 3) = -.2317

FACTOR USED IS .114372

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

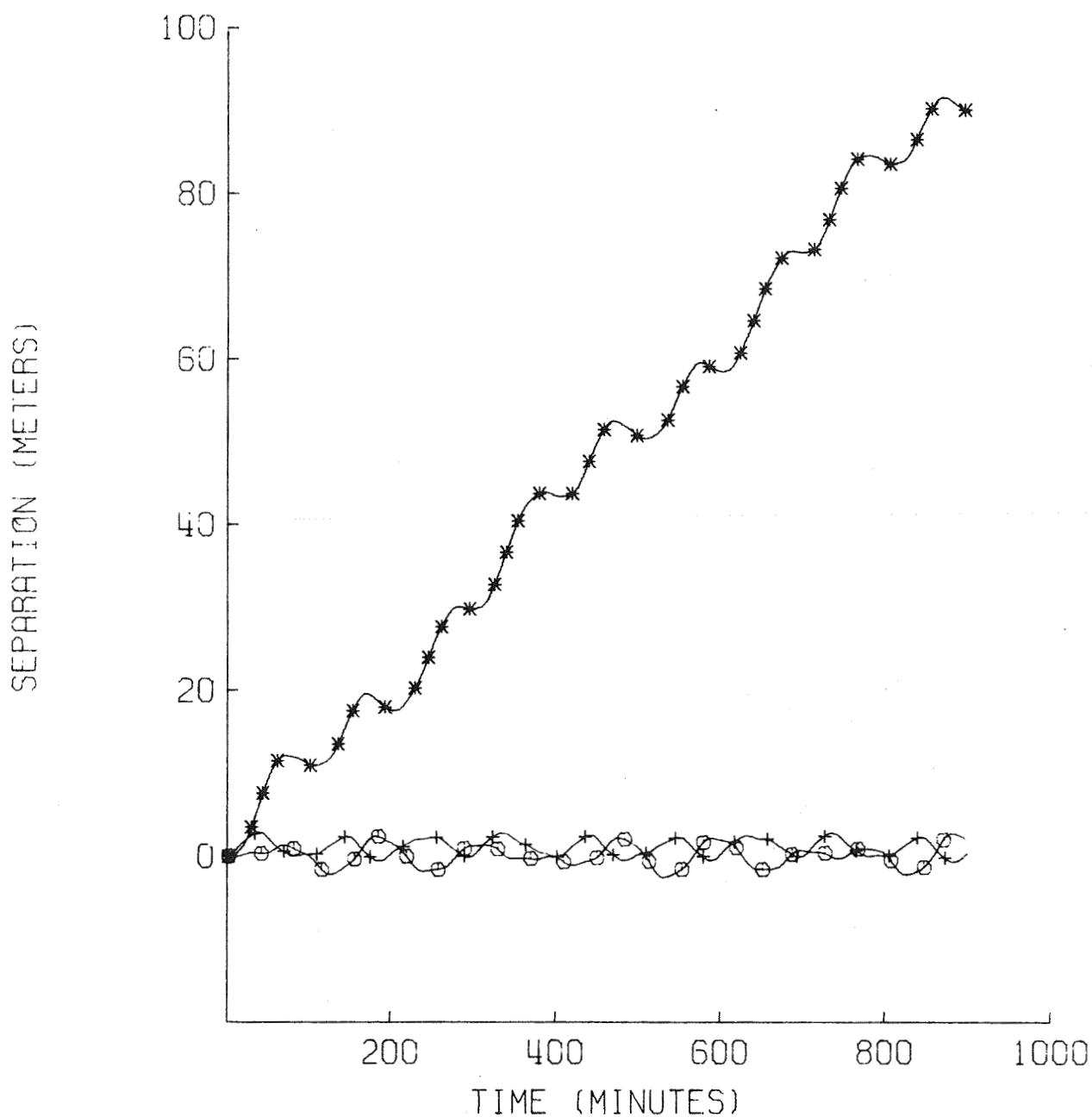
RUN FOR C(4 ,4) = .1861

FACTOR USED IS .395486

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

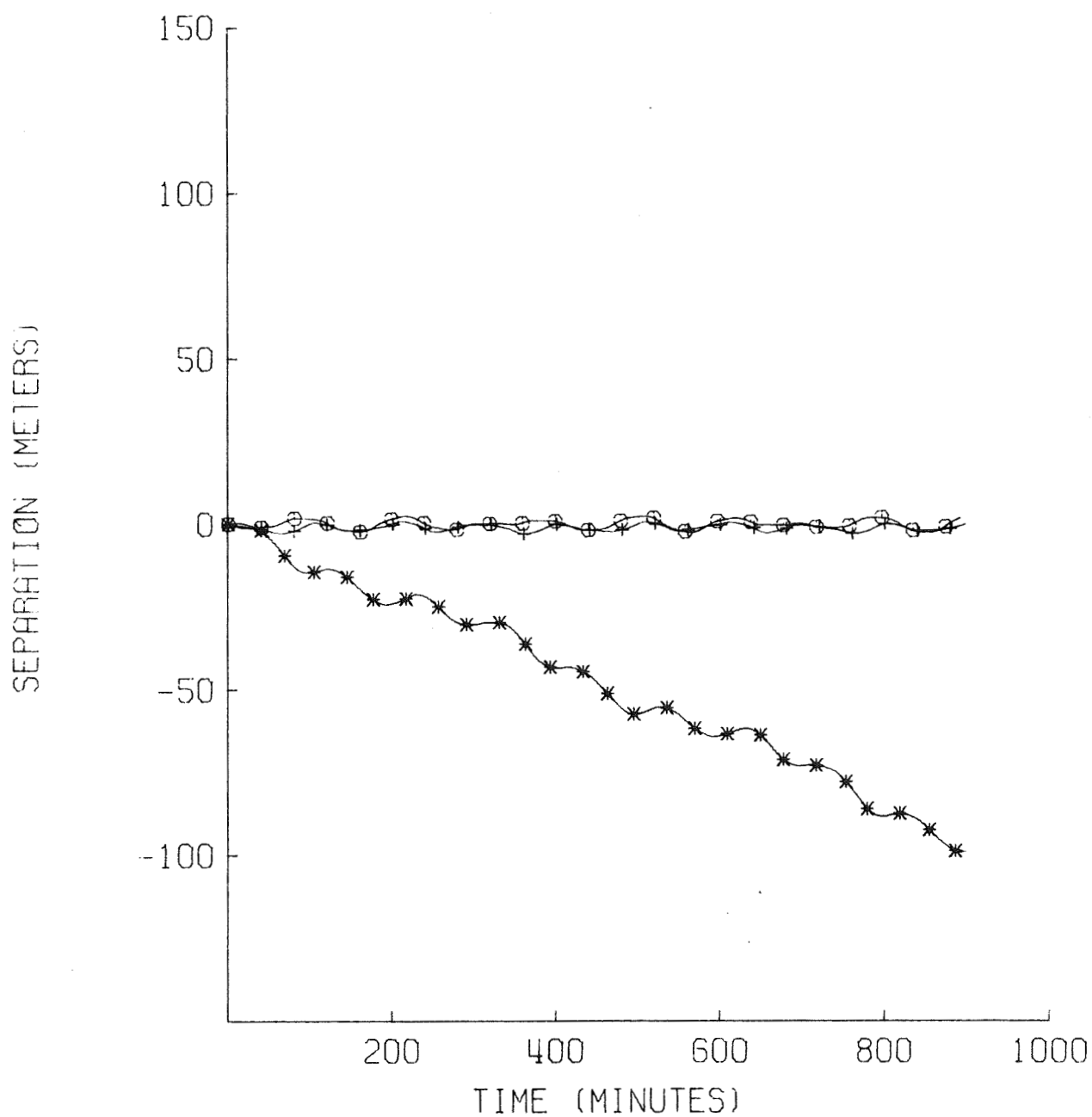
RUN FOR S(4 ,4) = .3065

FACTOR USED IS .253181

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(⊙) BI-NORMAL CROSS-TRACK



SECTION III

GRAPHICAL OUTPUT FOR SATELLITES

OF VARIOUS HEIGHTS

100 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

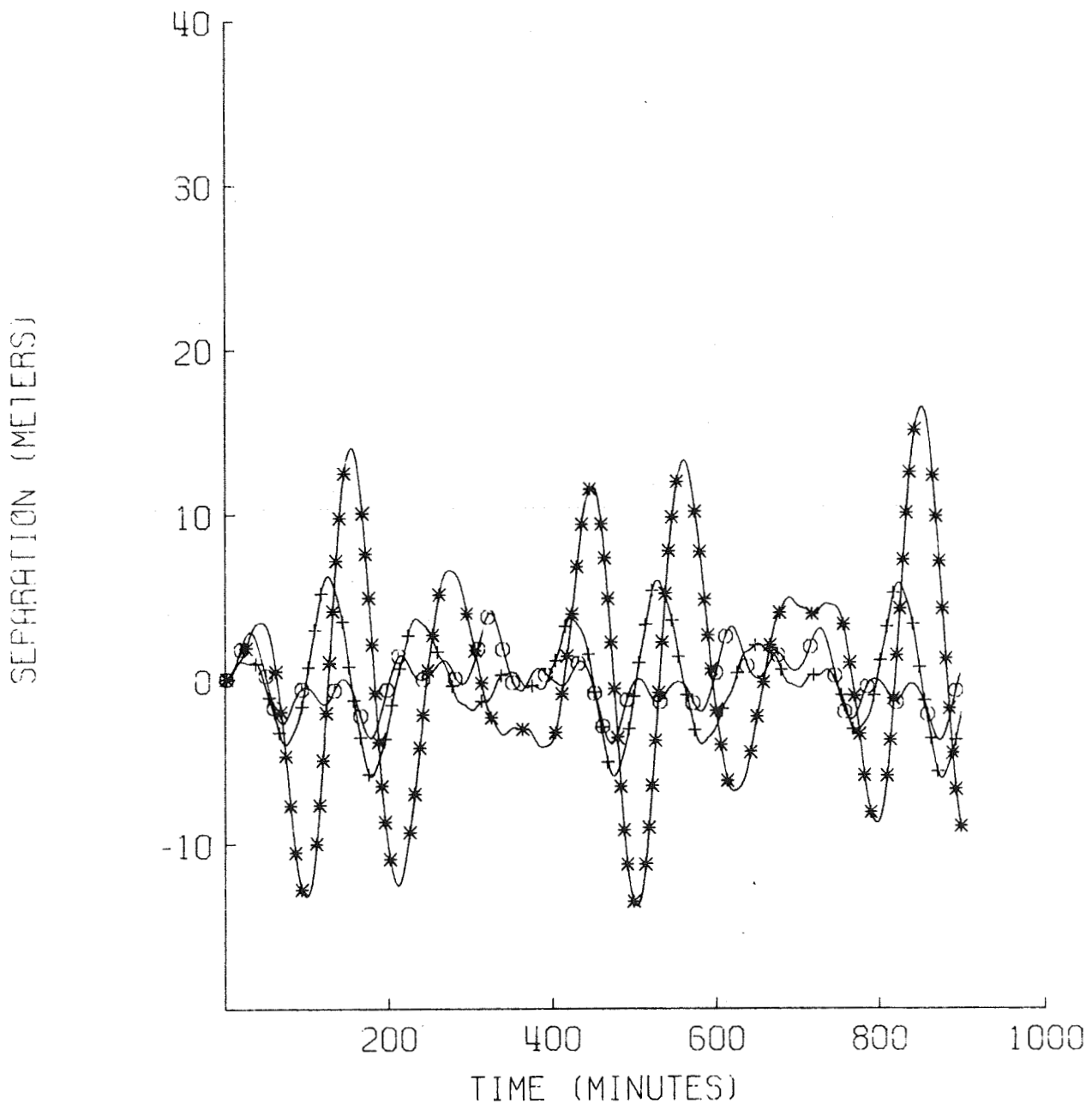
RUN FOR C(5 ,4) = .1371

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



120 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	8059.0177

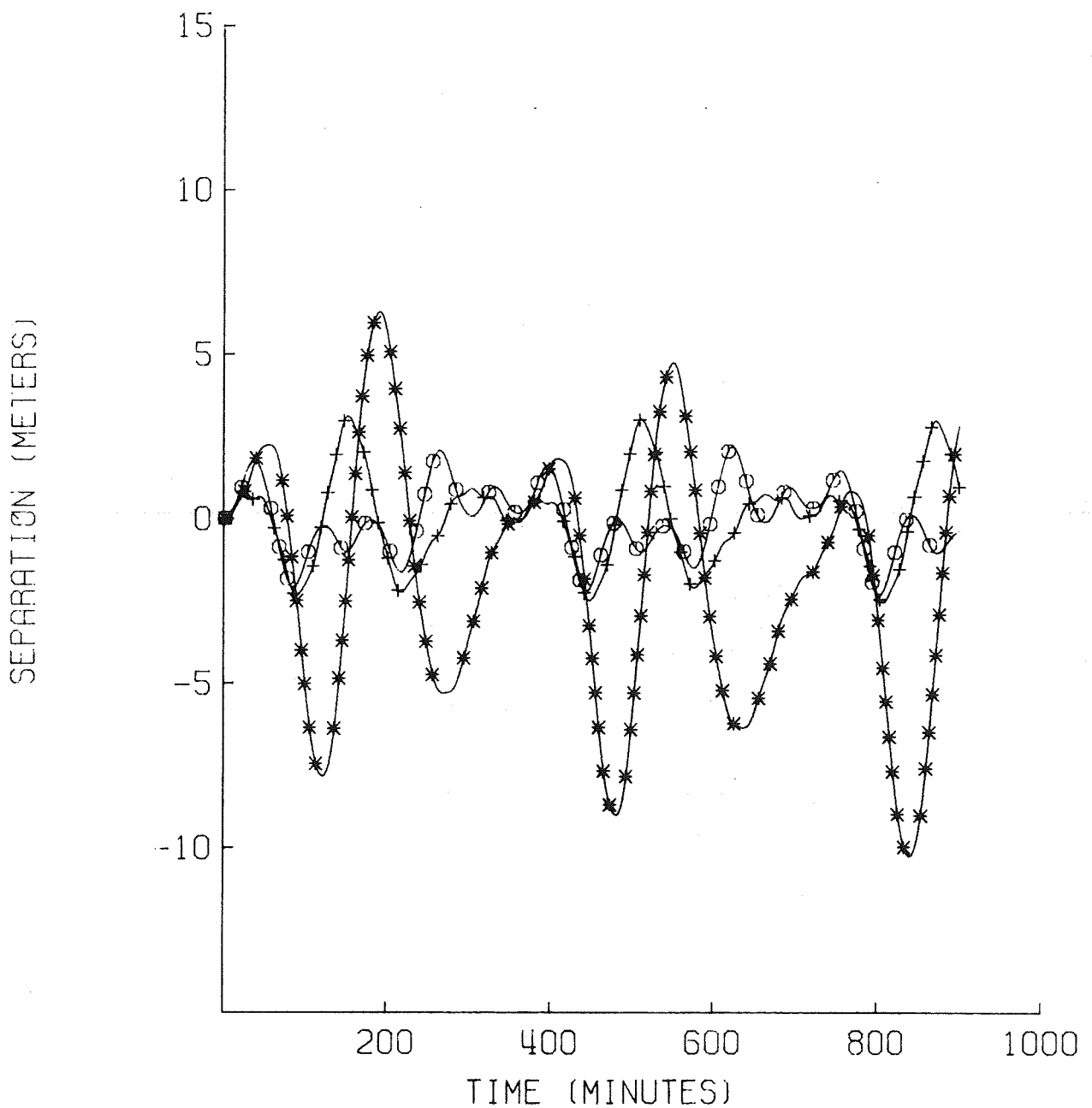
RUN FOR C(5 , 4) = .1371

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(⊙) BI-NORMAL CROSS-TRACK



140 MINUTE PERIOD

M	OMEGA	C	OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	9931.2718	

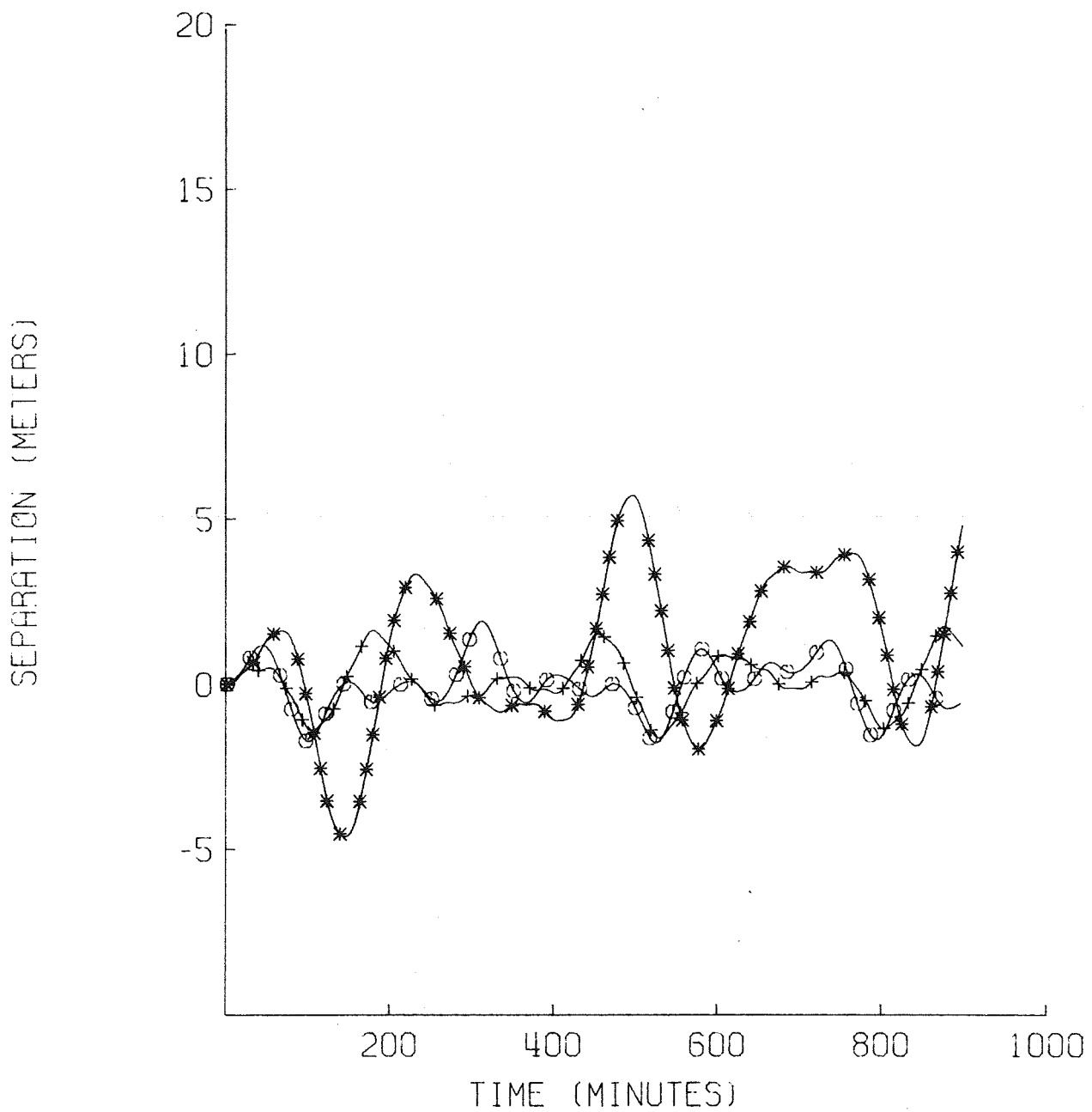
RUN FOR C(5 , 4) = .1371

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(⊙) BI-NORMAL CROSS-TRACK



160 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	9762.8046

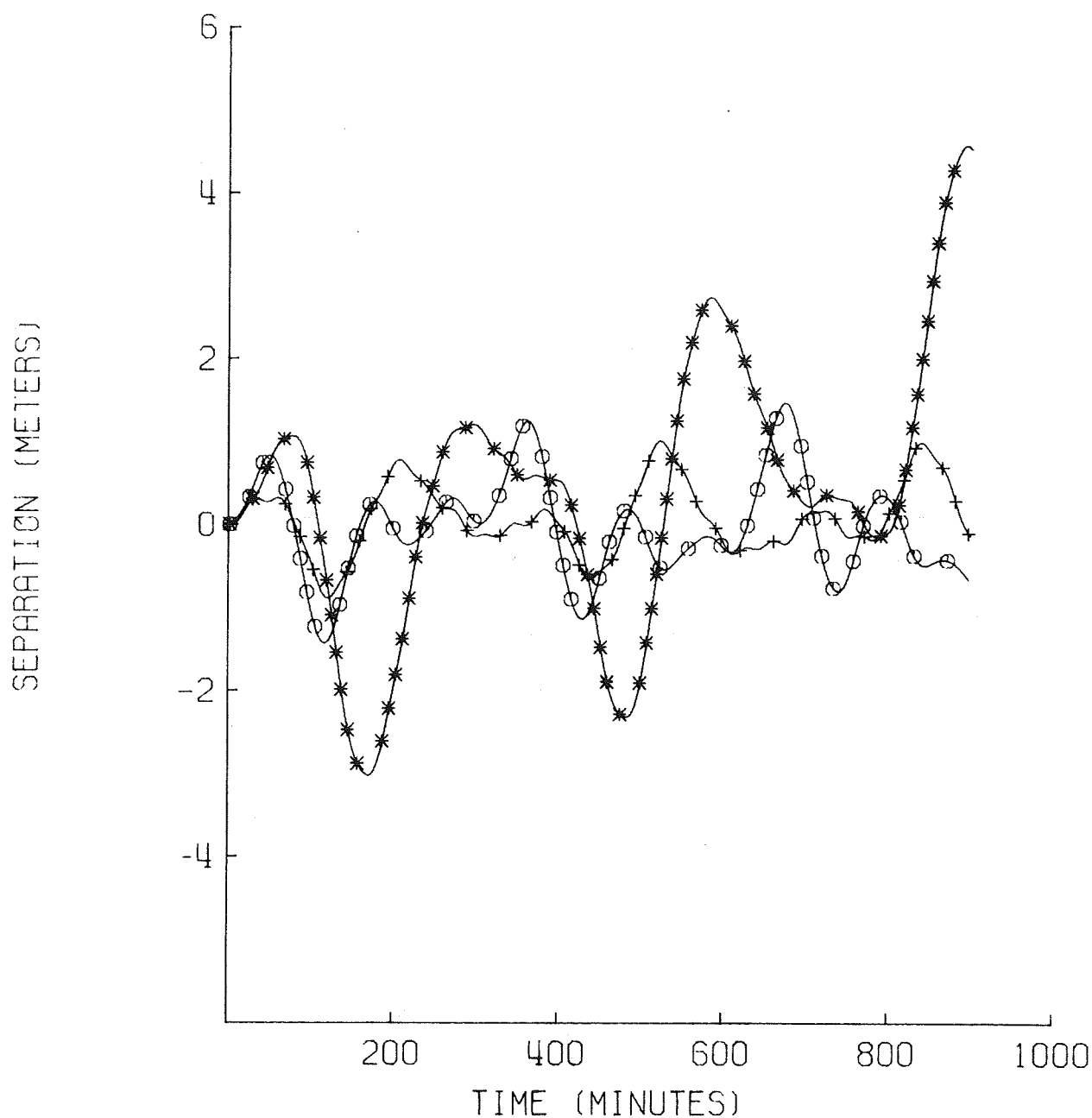
RUN FOR C(5 ,4) = .1371

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



180 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	10560.3009

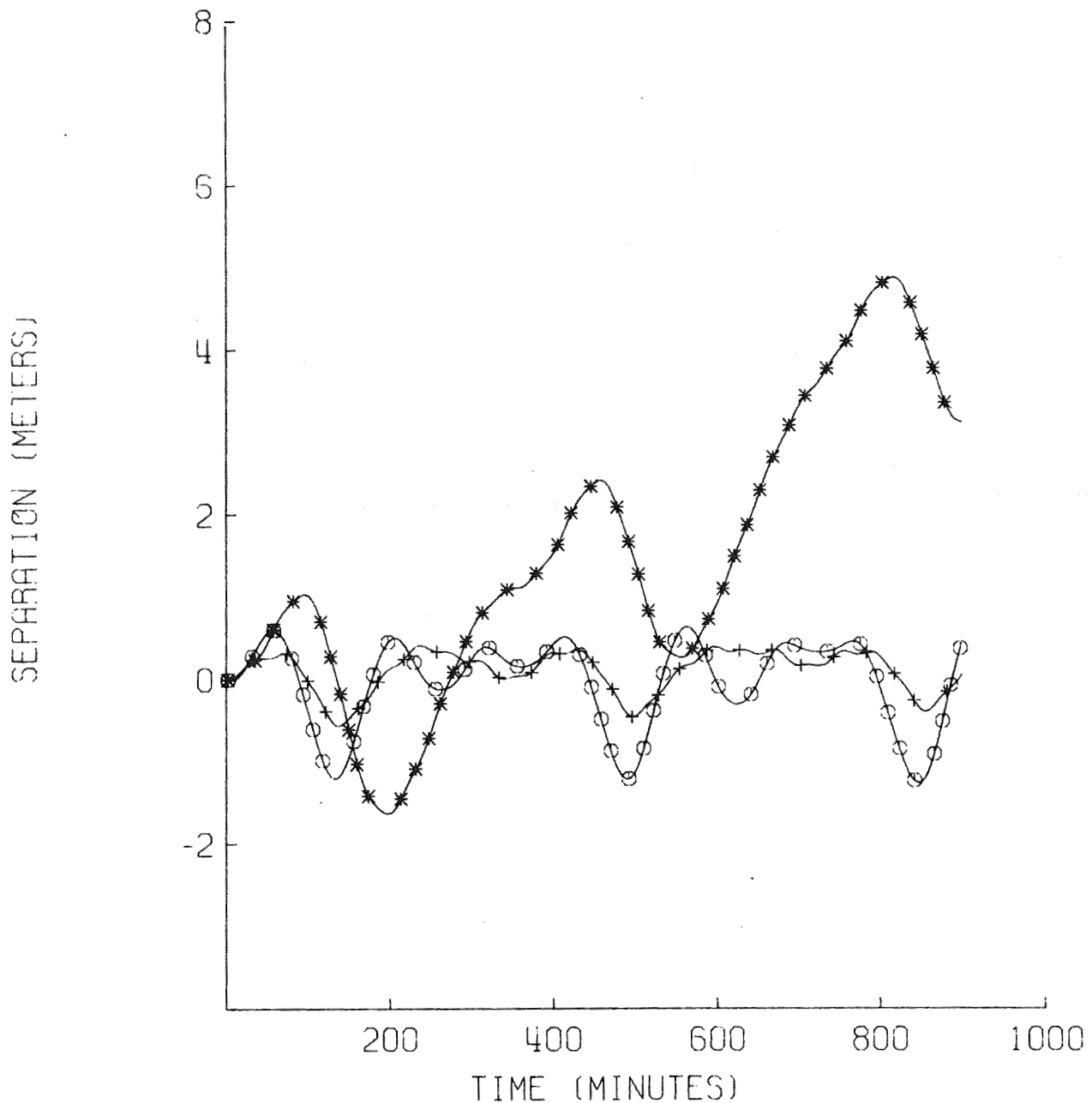
RUN FOR C(5 ,4) = .1371

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



200 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	11328.7310

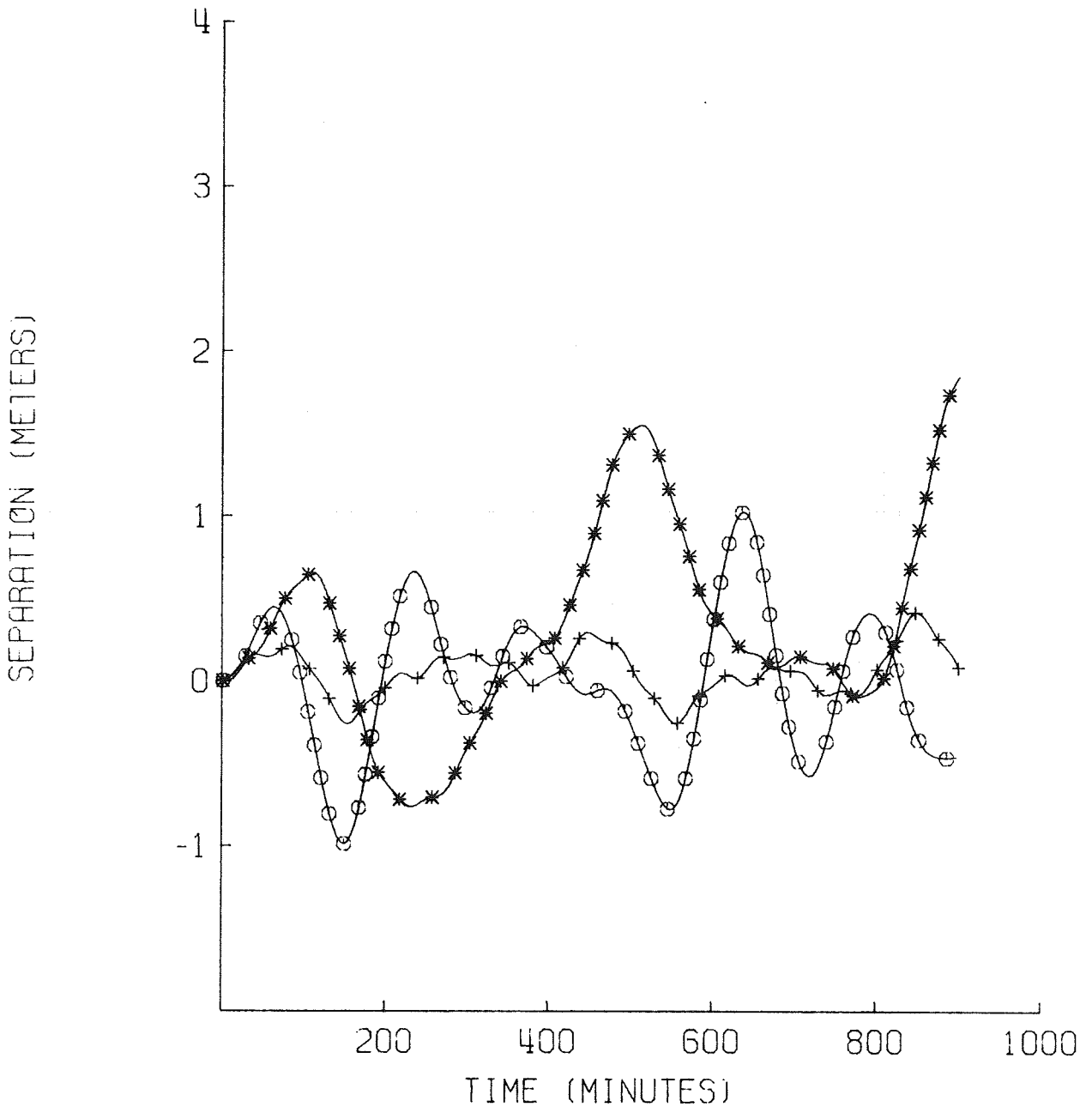
RUN FOR C(5 , 4) = .1371

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



100 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

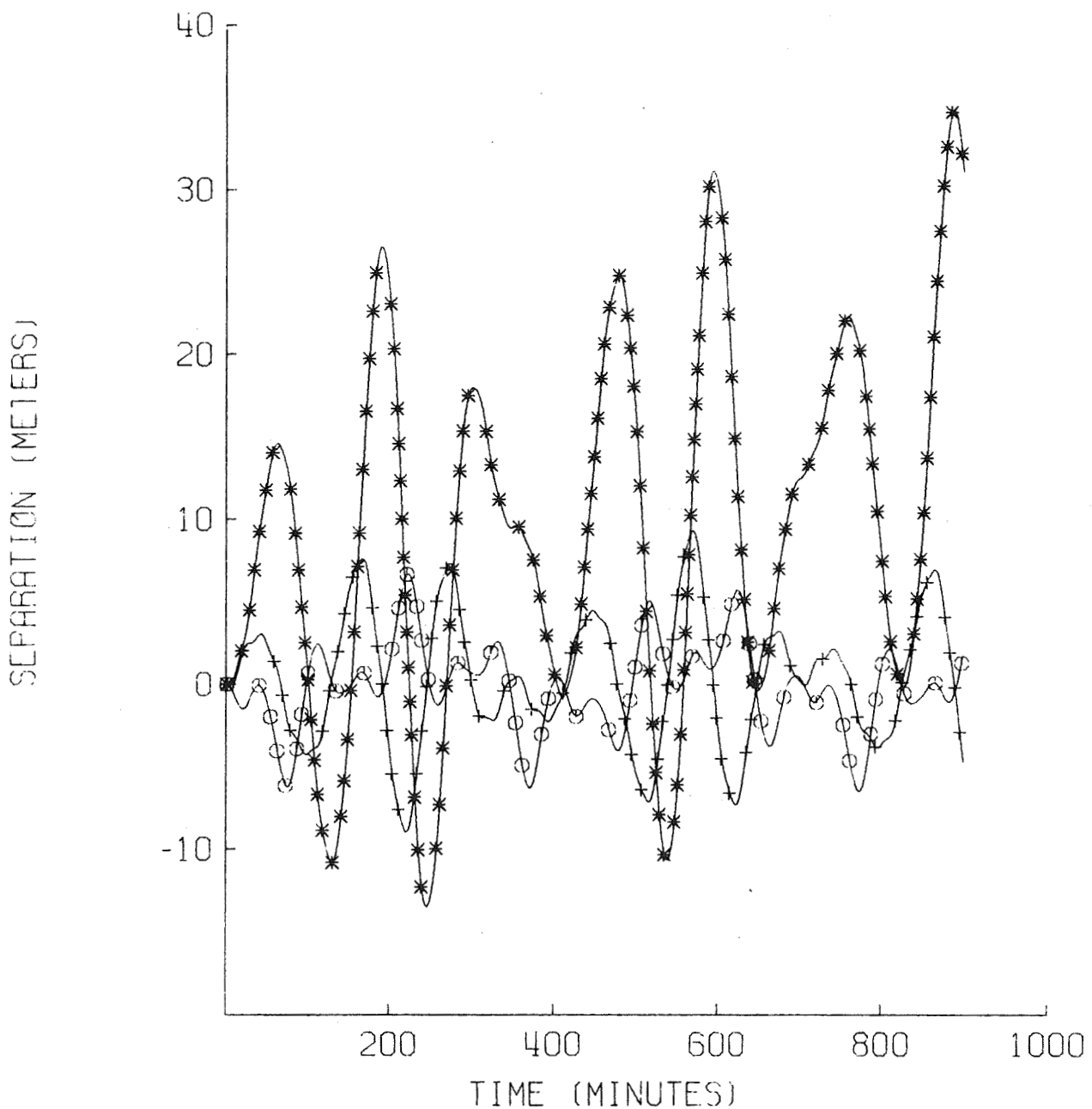
RUN FOR $S(5, 4) = .2119$

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



120 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	8059.0177

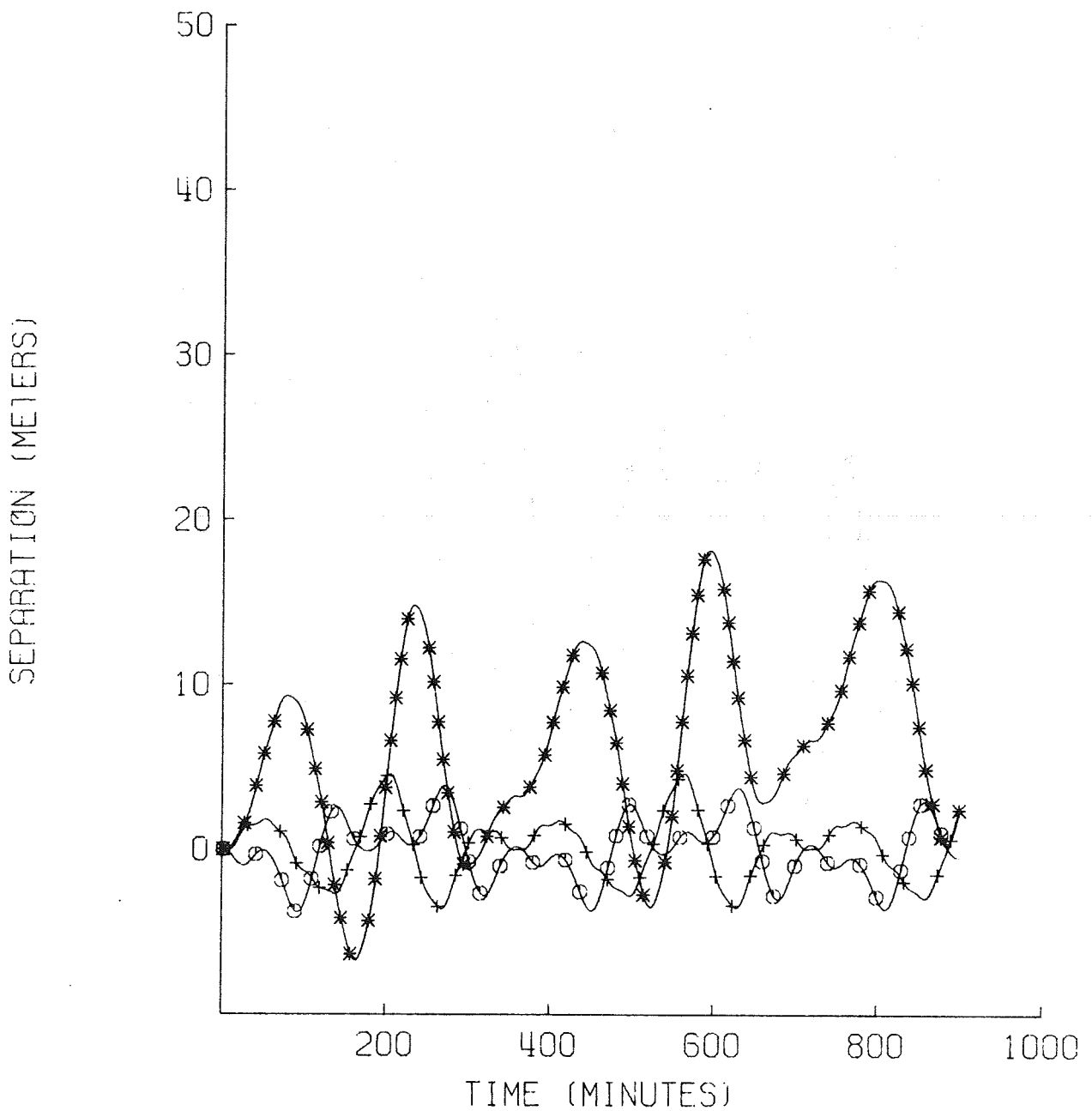
RUN FOR S(5 , 4) = .2119

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



140 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	8931.2718

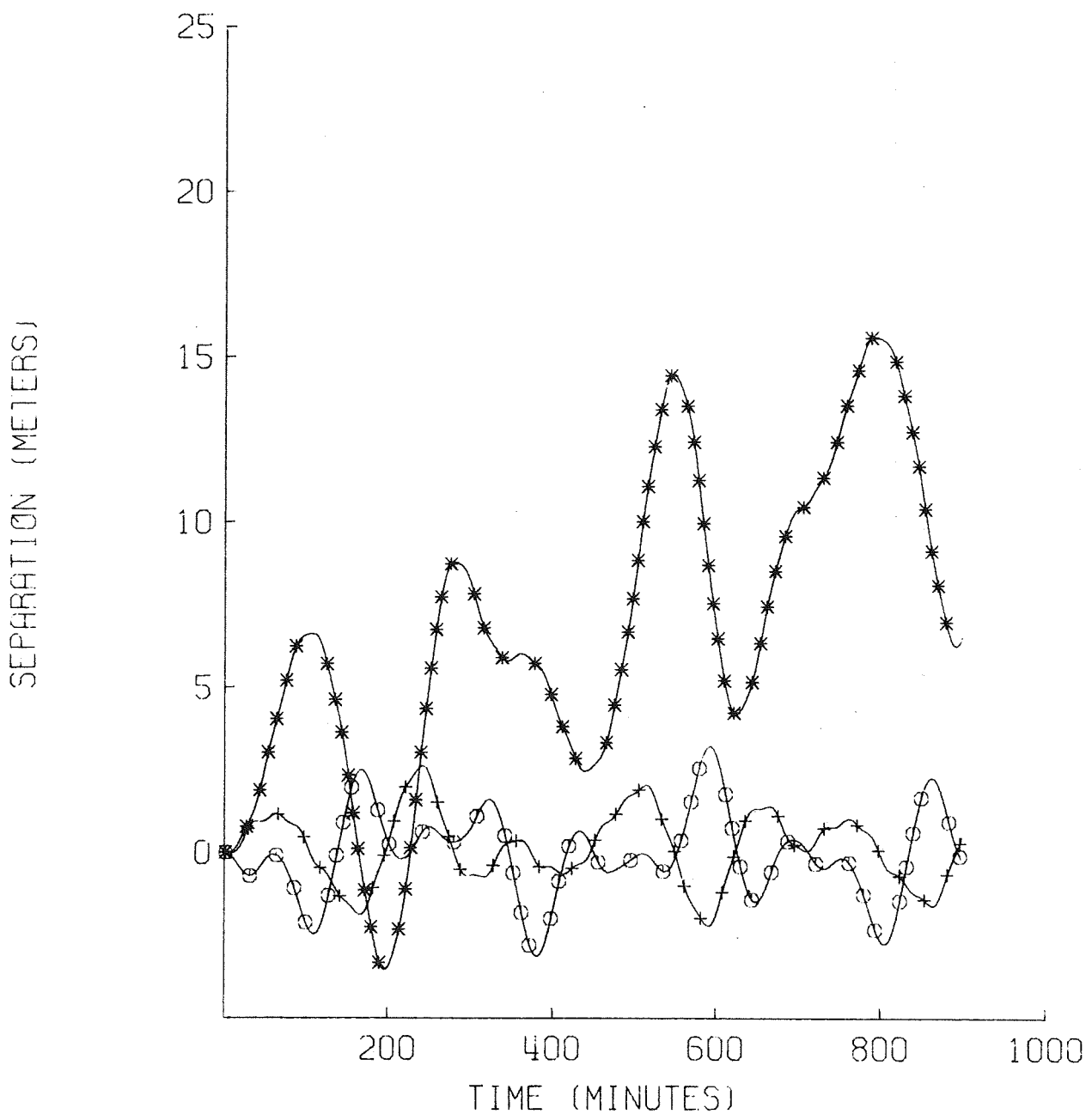
RUN FOR $S(5, 4) = .2119$

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



160 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	9762.8046

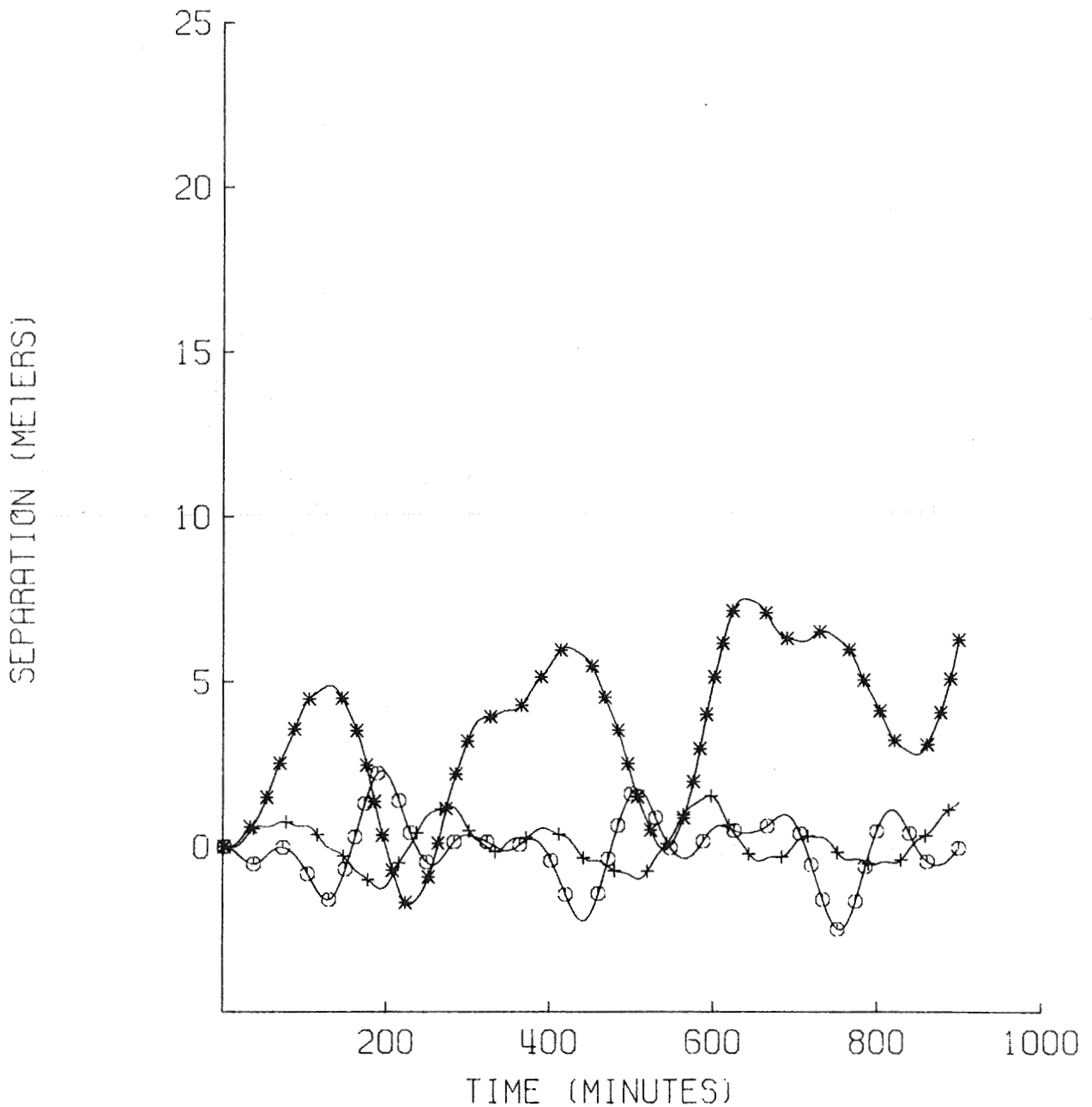
RUN FOR S(5 , 4) = .2119

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



180 MINUTE PERIOD

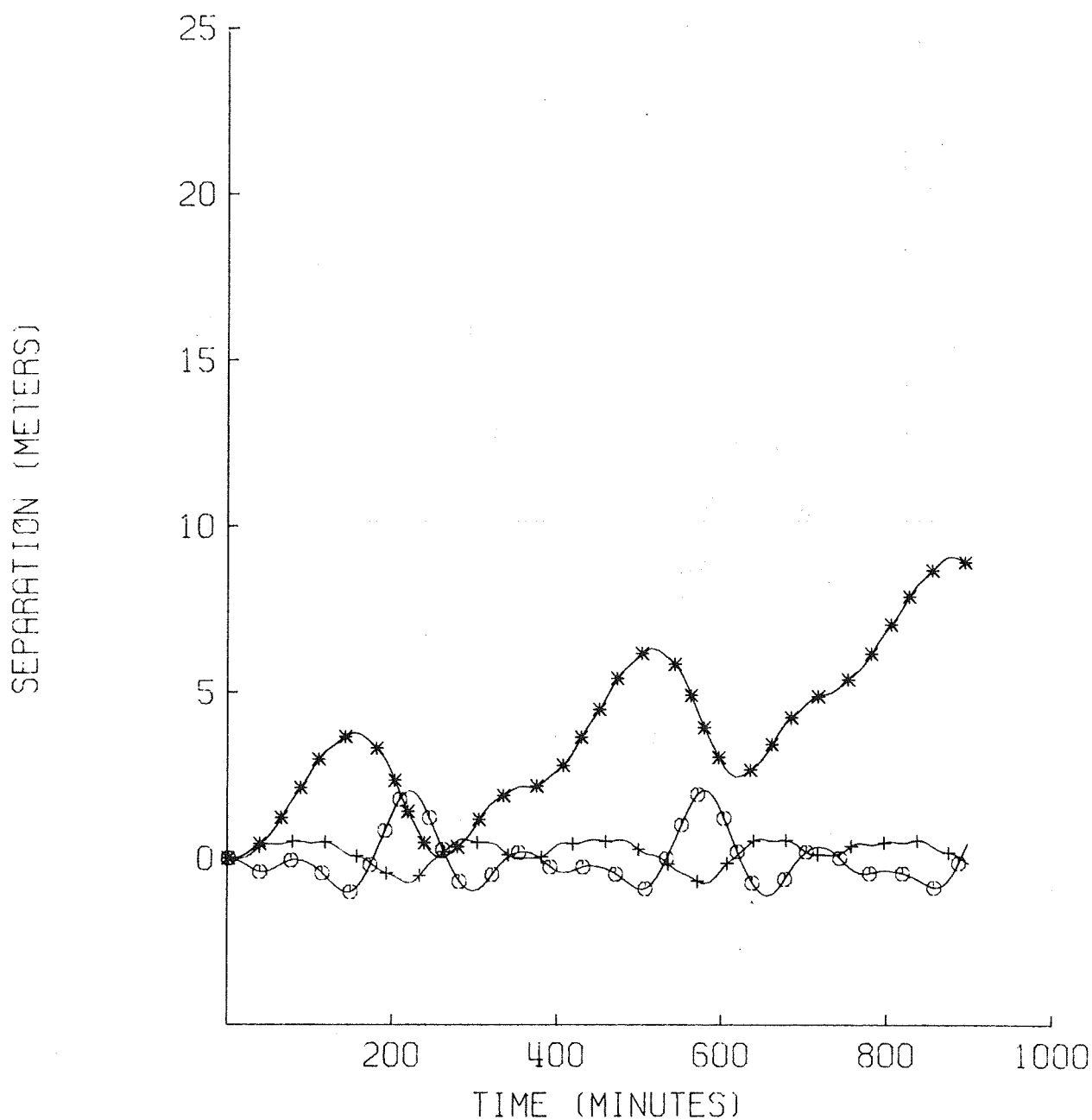
M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	10560.3009

RUN FOR $S(5, 4) = .2119$
 FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



200 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	11328.7310

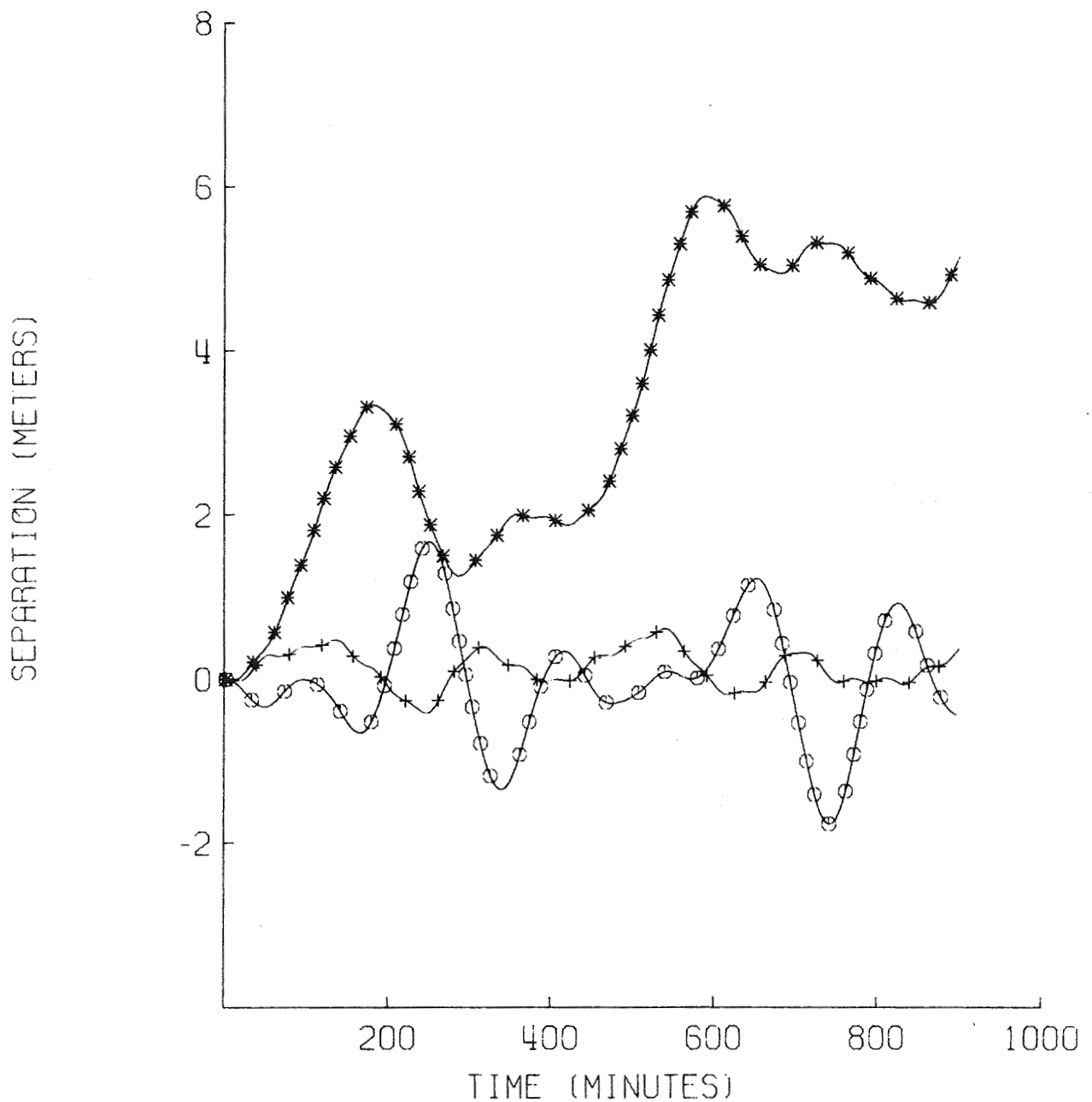
RUN FOR $S(5, 4) = .2119$

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



100 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

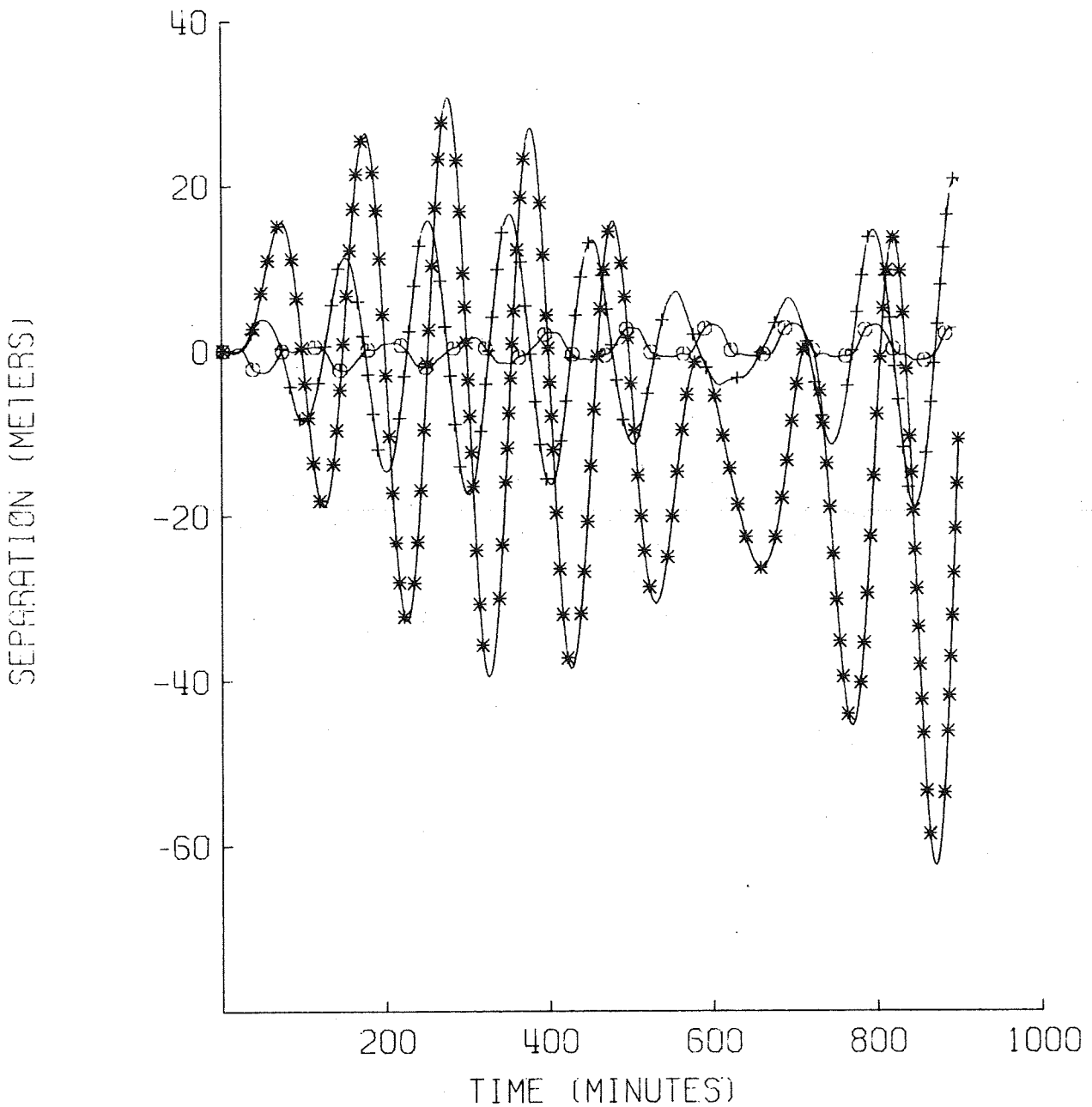
RUN FOR C(9 , 1) = .1598

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



120 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	8059.0177

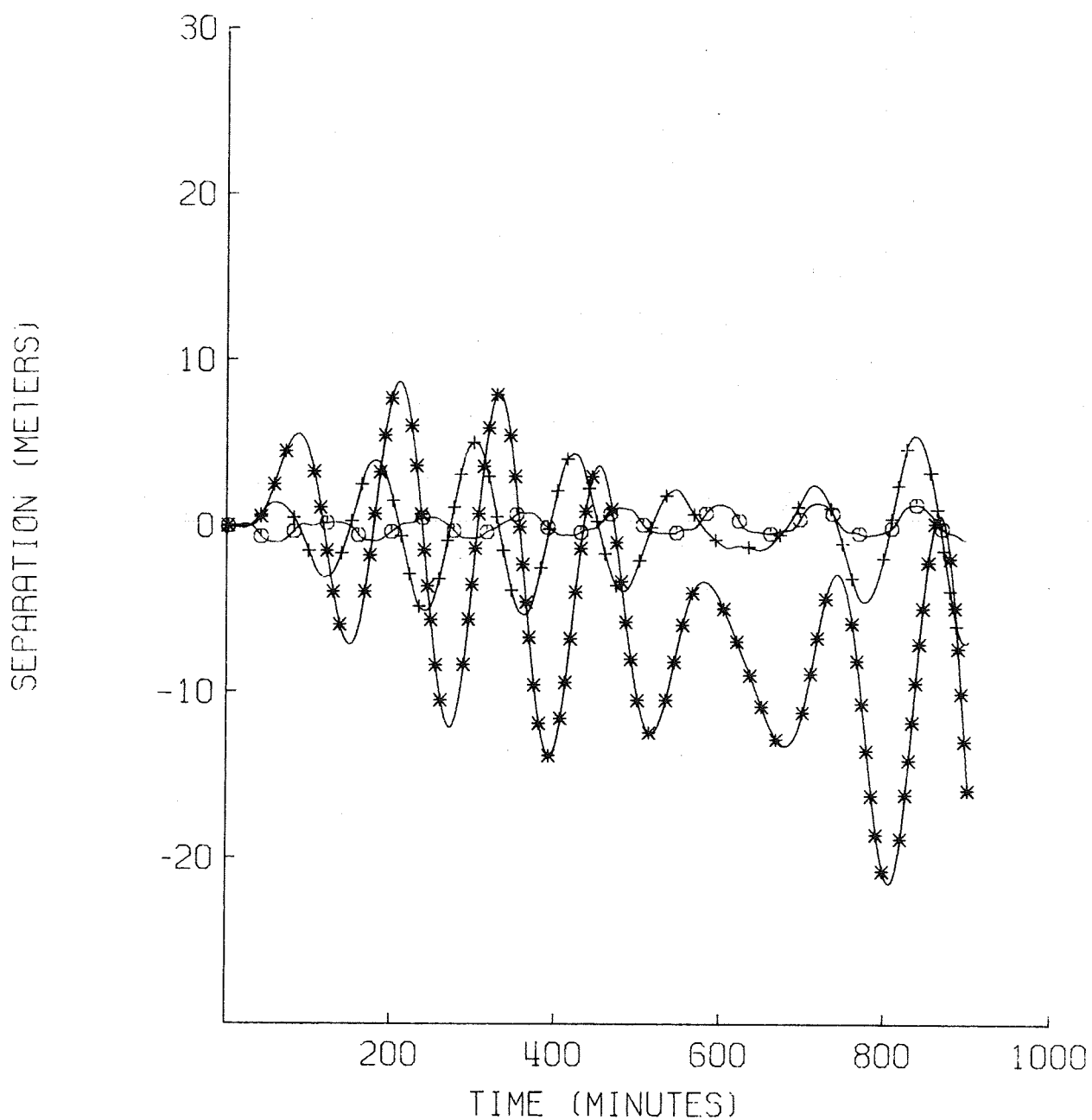
RUN FOR C(9 , 1) = .1598

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(⊖) BI-NORMAL CROSS-TRACK



140 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	8931.2718

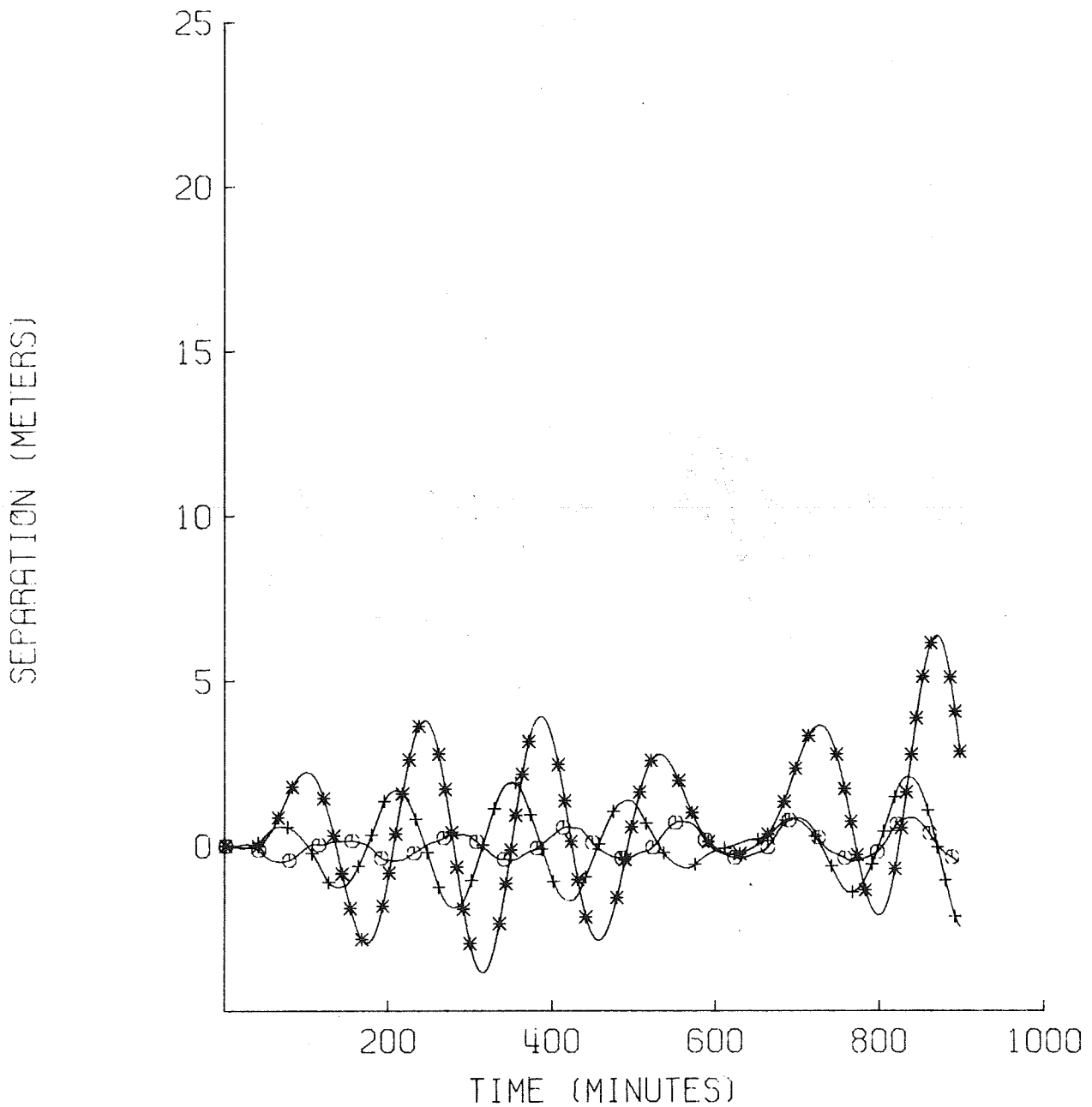
RUN FOR C(9 , 1) = .1598

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(⊙) BI-NORMAL CROSS-TRACK



160 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	9762.8046

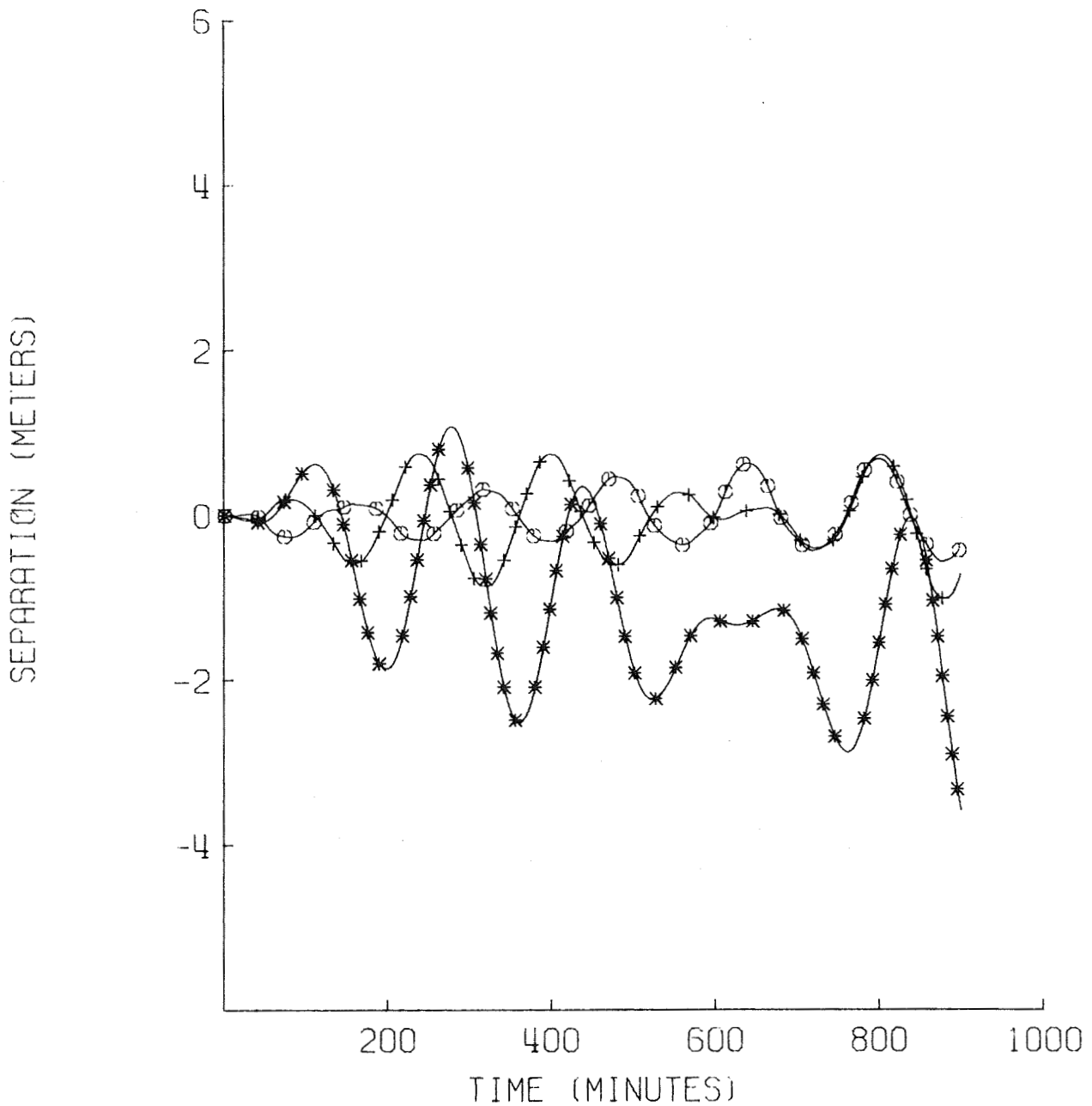
RUN FOR C(9 ,1) = .1598

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



180 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	10560.3009

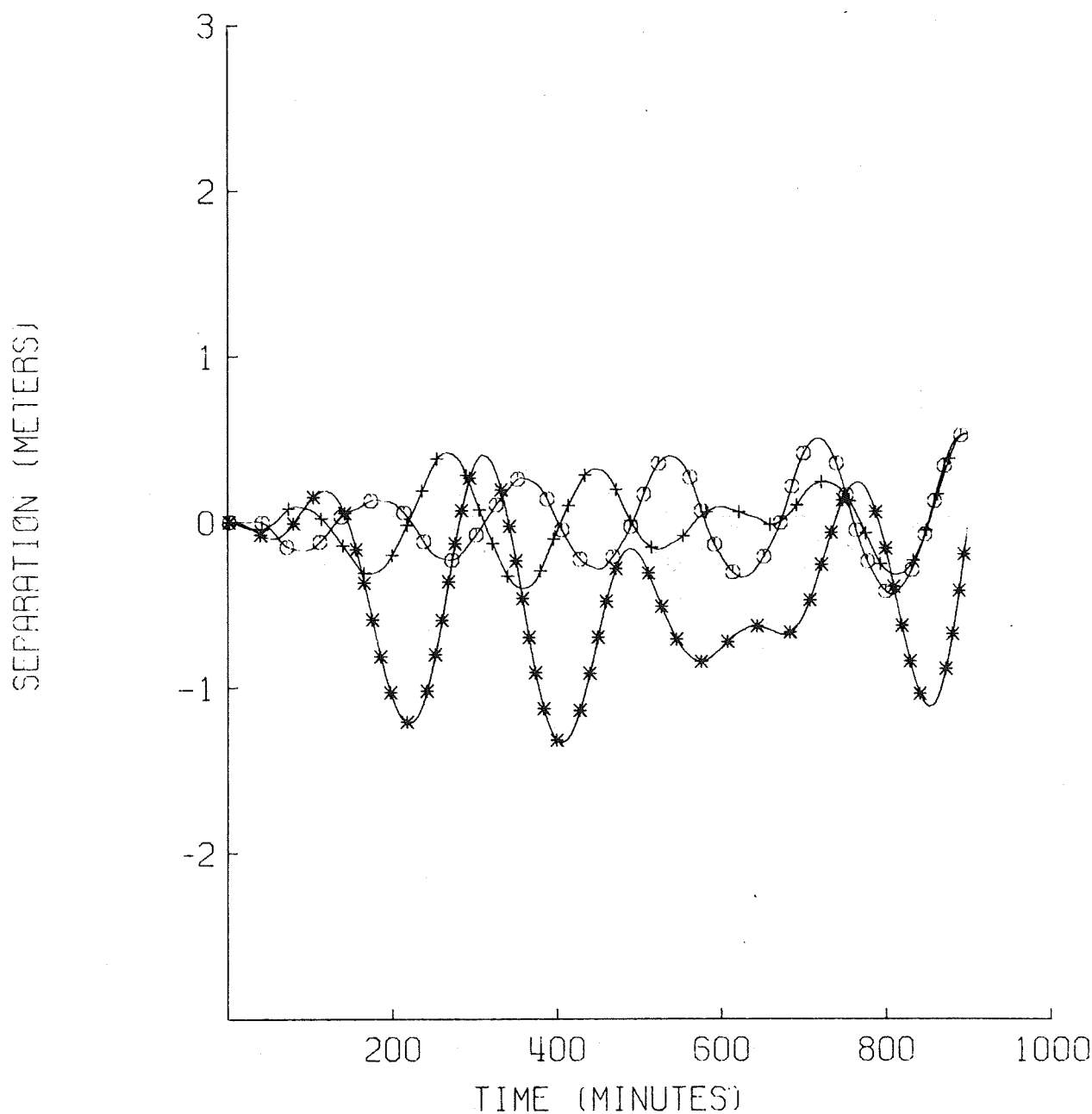
RUN FOR C(9 , 1) = .1598

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



200 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	11328.7310

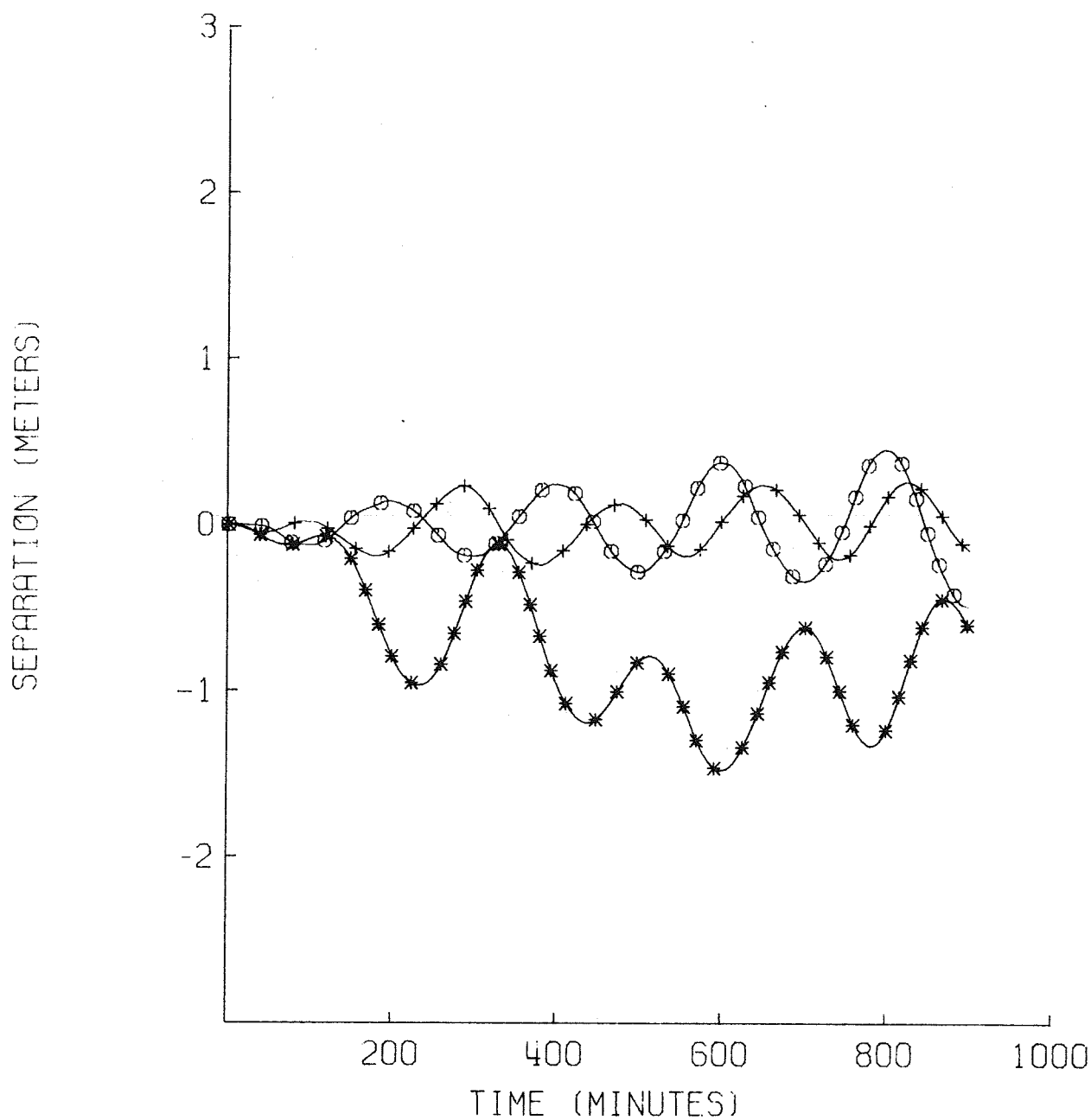
RUN FOR C(9 , 1) = .1598

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



100 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	7136.6535

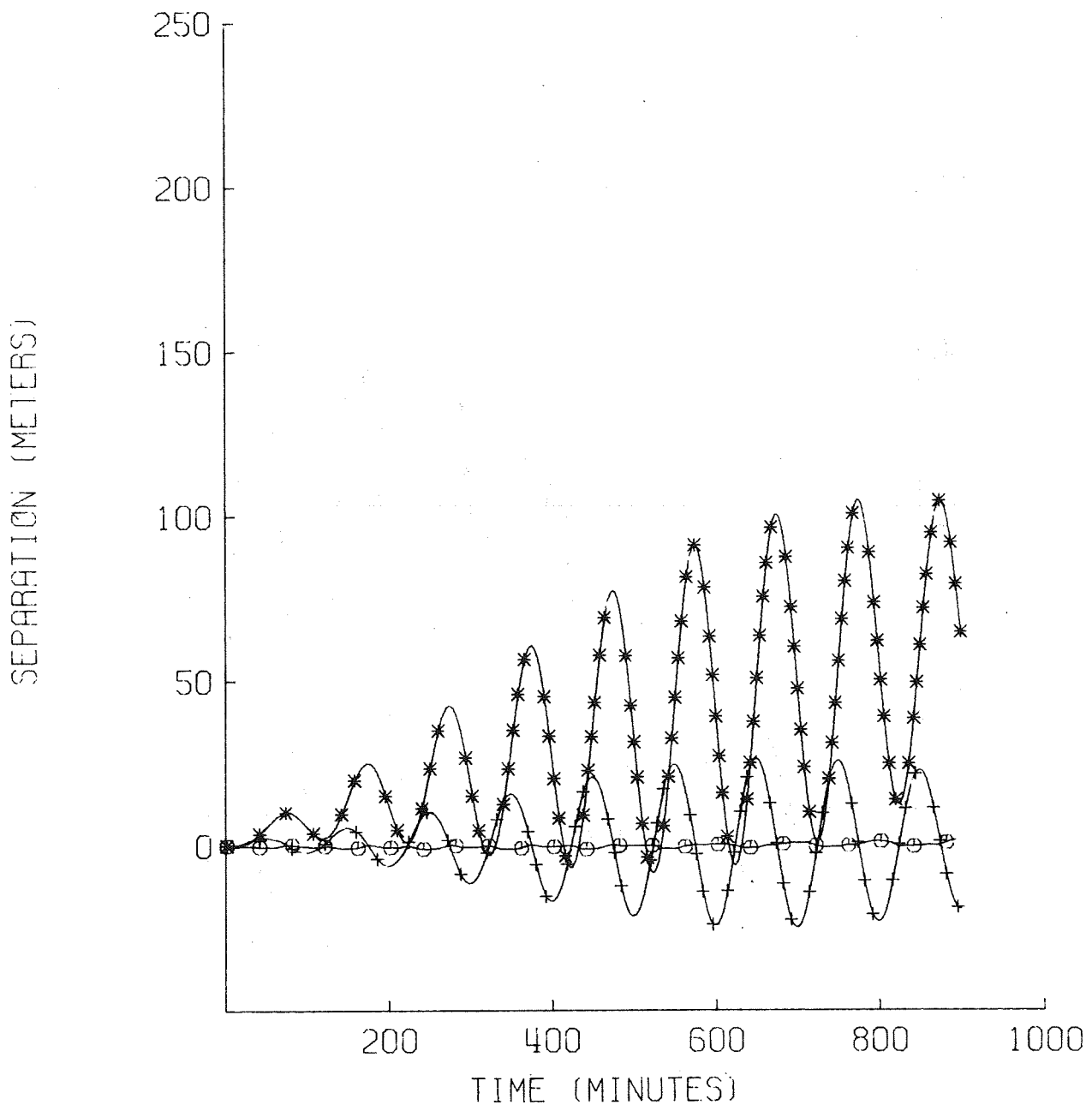
RUN FOR S(9 , 1) = -.0966

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(⊙) BI-NORMAL CROSS-TRACK



120 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	8059.0177

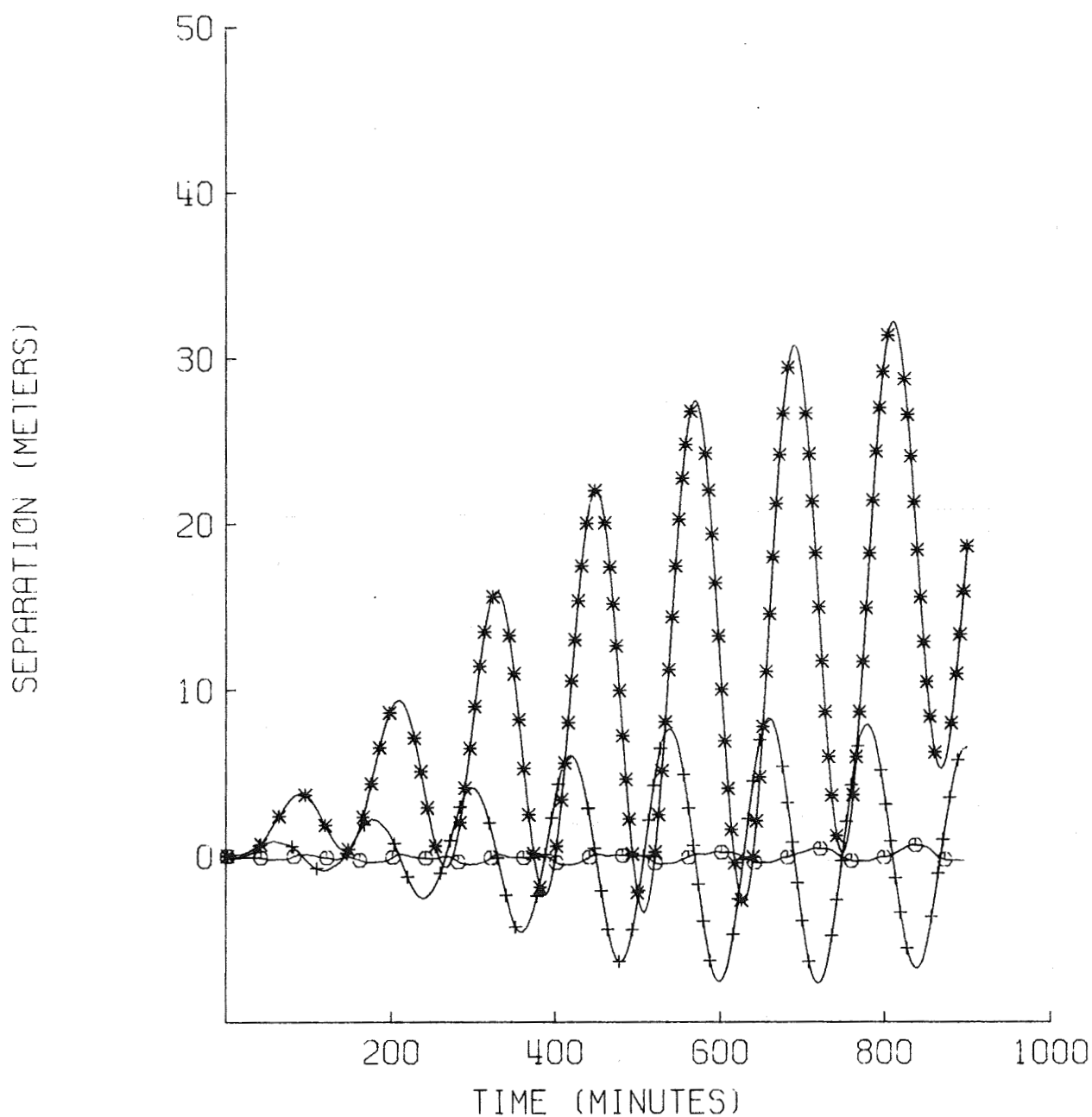
RUN FOR S(9 , 1) = -.0966

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(⊖) BI-NORMAL CROSS-TRACK



140 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	8931.2718

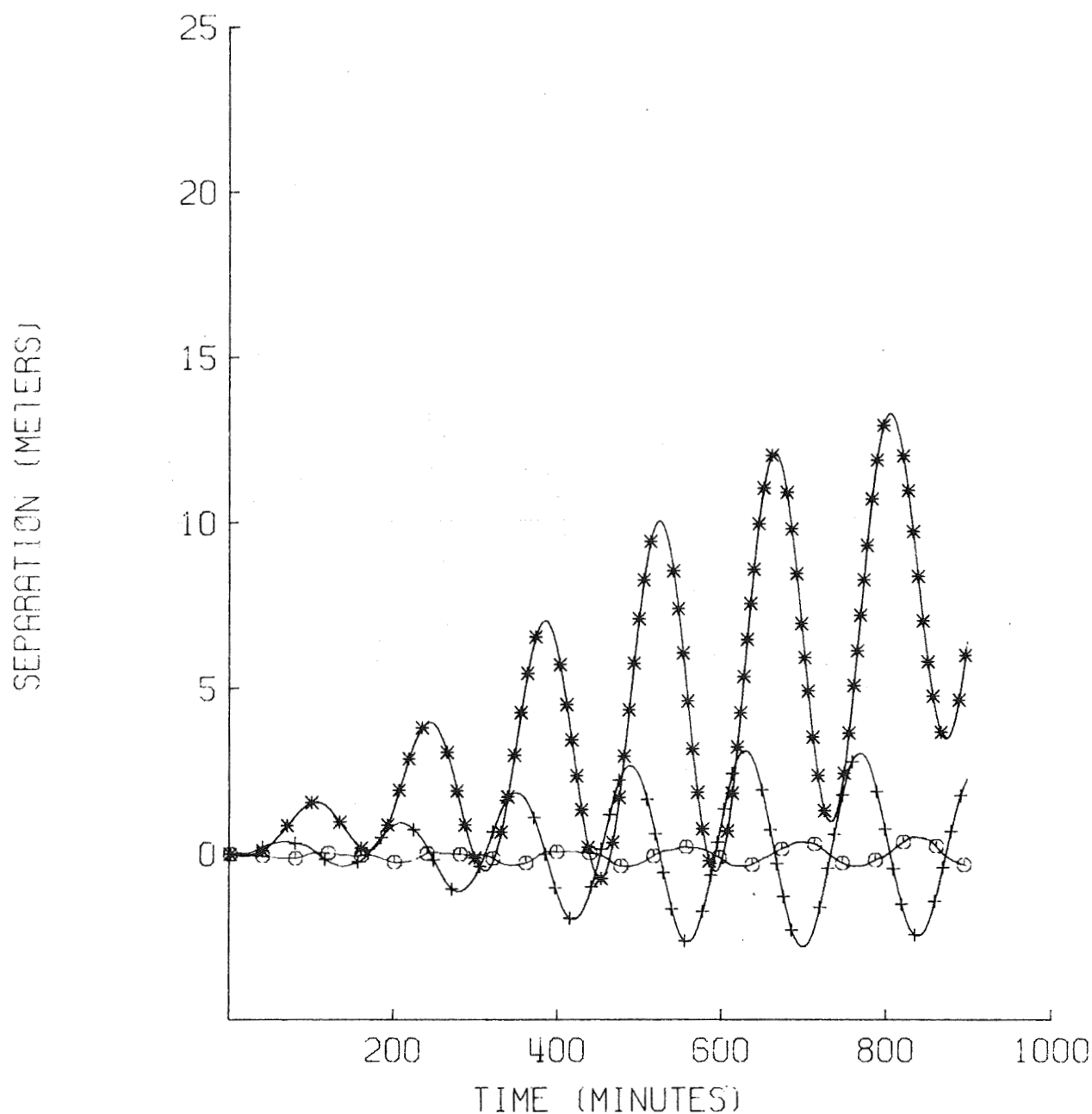
RUN FOR S(9 , 1) = -.0966

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



160 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	9762.8046

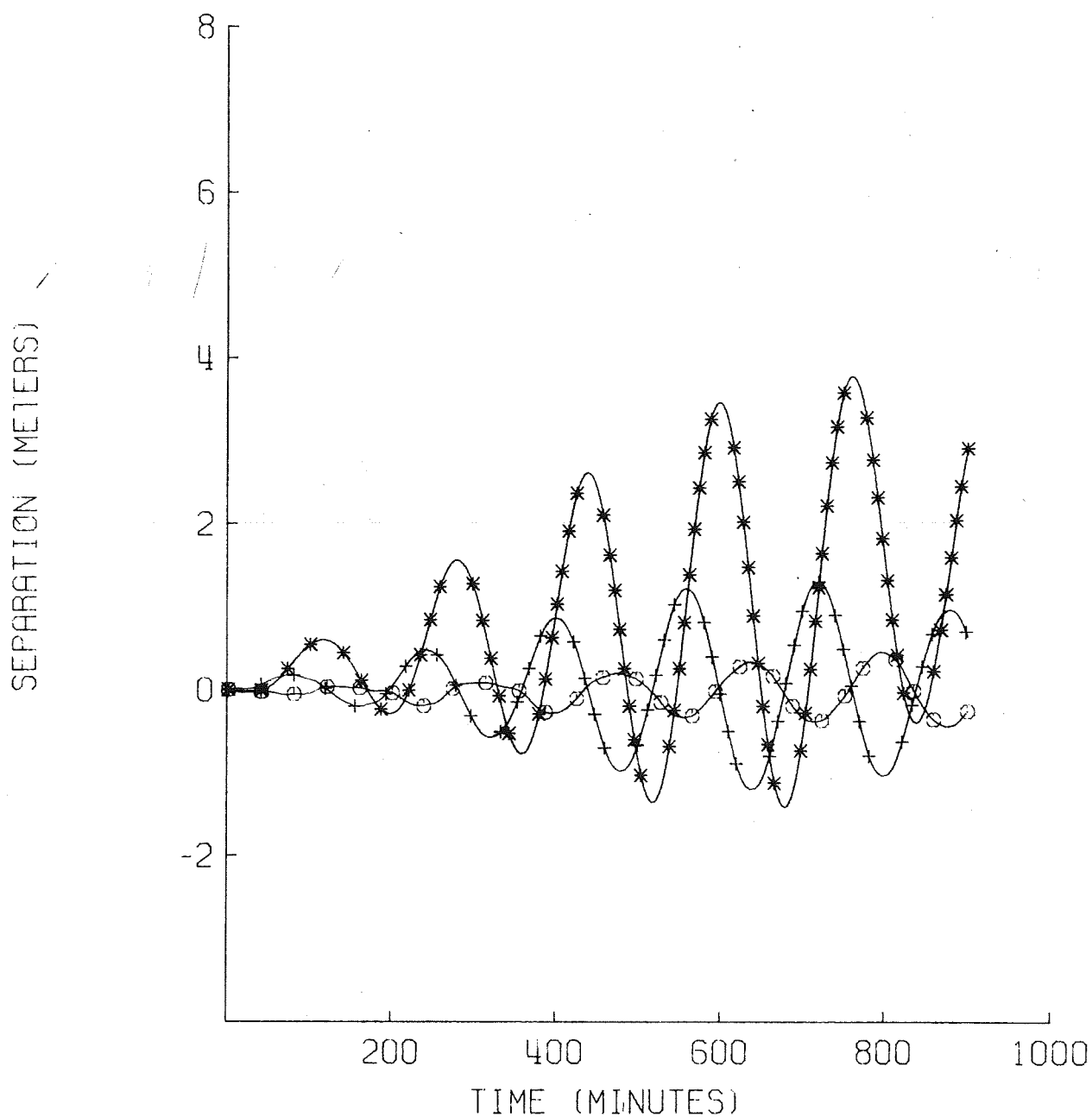
RUN FOR S(9 , 1) = -.0966

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(⊙) BI-NORMAL CROSS-TRACK



180 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	10550.3009

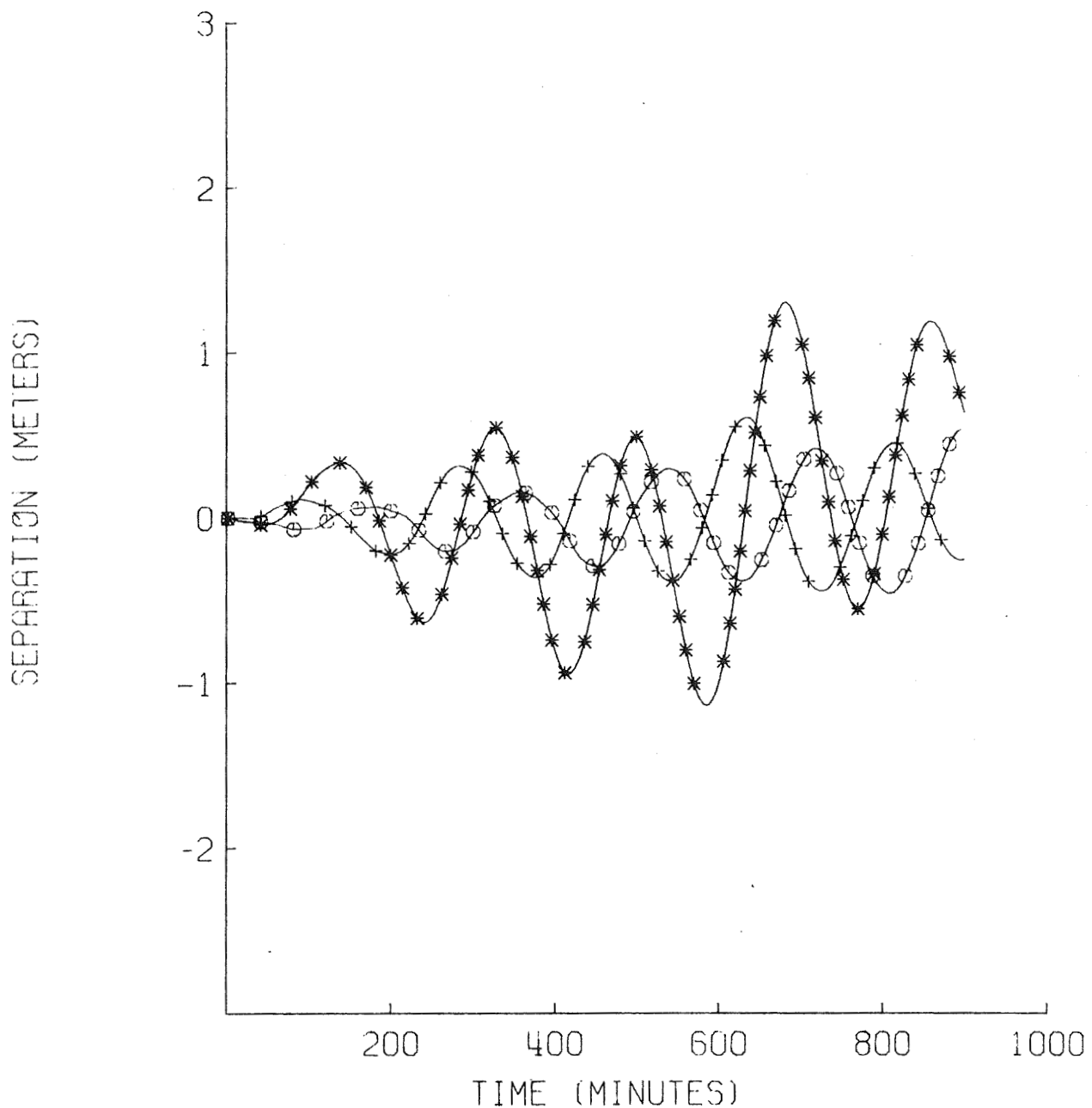
RUN FOR S(9 , 1) = -.0966

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK



200 MINUTE PERIOD

M	OMEGA	C OMEGA	I	E	A
0.0000	0.0000	0.0000	45.00000	.00500000	11328.7310

RUN FOR S(9 , 1) = -.0966

FACTOR USED IS 1.000000

(*) IN-TRACK

(+) PRINCIPAL NORMAL CROSS-TRACK

(O) BI-NORMAL CROSS-TRACK

