Project Report
ATC-240

Lincoln Laboratory Evaluation of TCAS II Logic Version 6.04a - Appendices Volume II

A. C. Drumm

15 February 1996

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MASSACHUSETTS INSTITUTE OF TECHNOLOGY
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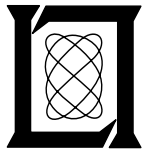

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16. Abstract

This report documents the Lincoln Laboratory evaluation of the Traffic Alert and Collision Avoidance System II (TCAS II) logic version 6.04a. TCAS II is an airborne collision avoidance system required since 30 December 1993 by the FAA on all air carrier aircraft with more than 30 passenger seats operating in U.S. airspace. Version 6.04a is a logic version mandated by the FAA by 30 December 1994 in order to correct a potential safety problem in earlier versions and to make the TCAS logic more compatible with the air traffic control system.

Lincoln Laboratory evaluated the logic by examining approximately two million simulated pairwise TCAS-TCAS encounters, derived from actual aircraft tracks recorded in U.S. airspace. The main goals of the evaluation effort were: (1) to determine if version 6.04a successfully corrected the potential safety problem without introducing new problems; (2) to detect and explain any areas of poor performance; and (3) to understand the performance limits of the logic. Five analysis programs were written to aid in the evaluation, and these programs are described in the report.

There were three phases of the evaluation corresponding to the above three goals. For each phase, the report gives an overview of the evaluation approach taken, a description of the results, and a summary. A description of follow-on activities plus overall conclusions and recommendations are given at the end of the report.

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Volume II

APPENDIX A

SCENARIO DEFINITION FOR TCAS II TESTING

CLASS	PARAMETER VARIED	RANGE	STEP SIZE	MULTIPLICATION FACTOR
0,10	alt sep @ CPA	-750, 750 ft	250	7
	vertical rate 1	-400, 400 fpm	400	3
	vertical rate 2	0, 400 fpm	400	2
	alt a/c 1 at CPA	3700,7500 ft	3800	2
				84 * 26 = 2184
1,11	alt sep @ CPA	-750, 750 ft	250	7
	vertical rate 1	-400, 400 fpm	400	3
	vertical rate 2	1000, 5000 fpm	2000	3
	alt bins	-20, 20 ft	40	2
	alt a/c 1 at CPA	3700,7500 ft	3800	2
				252 * 26 = 6552
2,12	alt sep @ CPA	-750, 750 ft	250	7
	vertical rate 1	-400, 400 fpm	400	3
	vertical rate 2	1000, 5000 fpm	2000	3
	vertical accel 2	.05, .35 g	.1	4
	time vert accel 2	20, 30 sec	5	3
	alt bins	-20, 20 ft	40	2
	alt a/c 1 at CPA	3700,7500 ft	3800	2
				3024 * 26 = 78624
3,13	alt sep @ CPA	-1000, 1000 ft	250	9
	vertical rate 1	-400, 400 fpm	400	3
	vertical rate 2	1000, 5000 fpm	2000	3
	vertical accel 2	-.35, -.05 g	.1	4
	time vert accel 2	20, 30 sec	5	3
	alt bins	-20, 20 ft	40	2
	alt a/c 1 at CPA	3700,7500 ft	3800	2
				3888 * 26 = 101088
4,14	alt sep @ CPA	-750, 750 ft	250	7
	vertical rate 1	-5000, 5000 fpm	2000	6
	vertical rate 2	1000, 5000 fpm	2000	3
	alt bins	-20, 20 ft	40	2
	alt a/c 1 at CPA	3700,7500 ft	3800	2
				504 * 26 = 13104

5,15	alt sep @ CPA	-750, 750 ft	250	7
	vertical rate 1	-5000, 5000 fpm	2000	6
	vertical rate 2	1000, 5000 fpm	2000	3
	vertical accel 2	.05, .35 g	.1	4
	time vert accel 2	20, 30 sec	5	3
	alt bins	-20, 20 ft	40	2
	alt a/c 1 at CPA	3700,7500 ft	3800	2
				6048 * 26 = 157248
6,16	alt sep @ CPA	-750, 750 ft	250	7
	vertical rate 1	-5000, 5000 fpm	2000	6
	vertical rate 2	-5000, -1000 fpm	2000	3
	vertical accel 2	.05, .35 g	.1	4
	time vert accel 2	20, 30 sec	5	3
	alt bins	-20, 20 ft	40	2
	alt a/c 1 at CPA	3700,7500 ft	3800	2
				6048 * 26 = 157248
7,17	alt sep @ CPA	-750, 750 ft	250	7
	vertical rate 1	1000, 5000 fpm	2000	3
	vertical rate 2	-5000, 5000 fpm	2000	6
	vertical accel 1	.05, .25 g	.1	3
	vertical accel 2	magnitudes .05 to .35 g; sign is same sign of vertical rate	.1	4
	time vert accel 1	25 sec		1
	time vert accel 2	20, 30 sec	5	3
	alt a/c 1 at CPA	3700,7500 ft	3800	2
				9072 * 26 = 235872
8,18	alt sep @ CPA	-750, 750 ft	250	7
	vertical rate 1	-5000, -1000 fpm	2000	3
	vertical rate 2	-5000, 5000 fpm	2000	6
	vertical accel 1	.05, .25 g	.1	3
	vertical accel 2	magnitudes .05 to .35 g; sign is same sign of vertical rate	.1	4
	time vert accel 1	25 sec		1
	time vert accel 2	20, 30 sec	5	3
	alt a/c 1 at CPA	3700,7500 ft	3800	2
				9072 * 26 = 235872

9,19	alt sep @ CPA	-1000, 1000 ft	250	9
	vertical rate 1	1000, 5000 fpm	2000	3
	vertical rate 2	-5000, 5000 fpm	2000	6
	vertical accel 1	-.15, -.05	.1	2
	vertical accel 2	magnitudes .05 to .35 g; sign is opposite sign of vertical rate	.1	4
	time vert accel 1	25 sec		1
	time vert accel 2	20, 30 sec	5	3
	alt a/c 1 at CPA	3700,7500 ft	3800	2

7776 * 26 = 202176

TOTAL SCENARIOS RUN :

CLASS 0,10	2,184
CLASS 1,11	6,552
CLASS 2,12	78,624
CLASS 3,13	101,088
CLASS 4,14	13,104
CLASS 5,15	157,248
CLASS 6,16	157,248
CLASS 7,17	235,872
CLASS 8,18	235,872
CLASS 9,19	202,176
TOTAL	1,189,968

APPENDIX B

TOTAL OF ENCOUNTERS RUN;

BREAKDOWN BY ENCOUNTER CLASS AND EQUIPAGE

Class	Number of Parameters Variations*	Dataset 1 (26 equip. pairs)	Dataset 2 (30 equip. pairs)	Dataset 3 (30 equip. pairs)
0/10	84	2184	2520	2520
1/11	252	6552	7560	7560
2/12	3024	78624	90720	90720
3/13	3888	101088	116640	116640
4/14	504	13104	15120	15120
5/15	6048	157248	181440	181440
6/16	6048	157248	181440	181440
7/17	9072	235872	272160	272160
8/18	9072	235872	272160	272160
9/19	7776	202176	233280	233280
	Total	1,189,968	1,373,040	1,373,040

* from "multiplication factor" in Appendix A

Dataset 1 - 26 equipage pairs

6.02, 6.04, 6.04a

Pilot Responding

	AC1	AC2
1.	Mode C	vs. non-resp TCAS (planned)
2.	Mode C	vs. 6.02
3.	Mode C	vs. 6.04
4.	Mode C	vs. 6.04a
5.	6.02 low ID	vs. 6.02 high ID
6.	6.02 low ID	vs. 6.04 high ID
7.	6.02 high ID	vs. 6.04 low ID
8.	6.02 low ID	vs. 6.04a high ID
9.	6.02 high ID	vs. 6.04a low ID
10.	6.04 low ID	vs. 6.04 high ID
11.	6.04 low ID	vs. 6.04a high ID
12.	6.04 high ID	vs. 6.04a low ID
13.	6.04a low ID	vs. 6.04a high ID

	AC1	AC2
14.	non-resp TCAS	vs. Mode C (planned)
15.	6.02	vs. Mode C
16.	6.04	vs. Mode C
17.	6.04a	vs. Mode C
18.	6.02 high ID	vs. 6.02 low ID
19.	6.04 high ID	vs. 6.02 low ID
20.	6.04 low ID	vs. 6.02 high ID
21.	6.04a high ID	vs. 6.02 low ID
22.	6.04a low ID	vs. 6.02 high ID
23.	6.04 high ID	vs. 6.04 low ID
24.	6.04a high ID	vs. 6.04 low ID
25.	6.04a low ID	vs. 6.04 high ID
26.	6.04a high ID	vs. 6.04a low ID

Dataset 2 - 30 equipage pairs

6.02, 6.04a

Pilot Responding and Pilot Non-responding (PNR)

	AC1	AC2
1.	Mode C vs. non-resp TCAS (planned)	
2.	Mode C vs. 6.02	
3.	Mode C vs. 6.04a	
4.	6.02 low ID vs. 6.02 high ID	
5.	6.02 low ID vs. 6.04a high ID	
6.	6.02 high ID vs. 6.04a low ID	
7.	6.02 low ID vs. 6.02 PNR high ID	
8.	6.02 high ID vs. 6.02 PNR low ID	
9.	6.02 low ID vs. 6.04a PNR high ID	
10.	6.02 high ID vs. 6.04a PNR low ID	
11.	6.04a low ID vs. 6.04a high ID	
12.	6.04a low ID vs. 6.02 PNR high ID	
13.	6.04a high ID vs. 6.02 PNR low ID	
14.	6.04a low ID vs. 6.04a PNR high ID	
15.	6.04a high ID vs. 6.04a PNR low ID	
16.	non-resp TCAS vs. Mode C (planned)	
17.	6.02 vs. Mode C	
18.	6.04a vs. Mode C	
19.	6.02 high ID vs. 6.02 low ID	
20.	6.04a high ID vs. 6.02 low ID	
21.	6.04a low ID vs. 6.02 high ID	
22.	6.02 PNR high ID vs. 6.02 low ID	
23.	6.02 PNR low ID vs. 6.02 high ID	
24.	6.04a PNR high ID vs. 6.02 low ID	
25.	6.04a PNR low ID vs. 6.02 high ID	
26.	6.04a high ID vs. 6.04a low ID	
27.	6.02 PNR high ID vs. 6.04a low ID	
28.	6.02 PNR low ID vs. 6.04a high ID	
29.	6.04a PNR high ID vs. 6.04a low ID	
30.	6.04a PNR low ID vs. 6.04a high ID	

Dataset 3 - 30 equipage pairs

6.04, 6.04a

Pilot Responding and Pilot Non-responding (PNR)

	AC1	AC2
1.	Mode C vs. non-resp TCAS (planned)	
2.	Mode C vs. 6.04	
3.	Mode C vs. 6.04a	
4.	6.04 low ID vs. 6.04 high ID	
5.	6.04 low ID vs. 6.04a high ID	
6.	6.04 high ID vs. 6.04a low ID	
7.	6.04 low ID vs. 6.04 PNR high ID	
8.	6.04 high ID vs. 6.04 PNR low ID	
9.	6.04 low ID vs. 6.04a PNR high ID	
10.	6.04 high ID vs. 6.04a PNR low ID	
11.	6.04a low ID vs. 6.04a high ID	
12.	6.04a low ID vs. 6.04 PNR high ID	
13.	6.04a high ID vs. 6.04 PNR low ID	
14.	6.04a low ID vs. 6.04a PNR high ID	
15.	6.04a high ID vs. 6.04a PNR low ID	
16.	non-resp TCAS vs. Mode C (planned)	
17.	6.04 vs. Mode C	
18.	6.04a vs. Mode C	
19.	6.04 high ID vs. 6.04 low ID	
20.	6.04a high ID vs. 6.04 low ID	
21.	6.04a low ID vs. 6.04 high ID	
22.	6.04 PNR high ID vs. 6.04 low ID	
23.	6.04 PNR low ID vs. 6.04 high ID	
24.	6.04a PNR high ID vs. 6.04 low ID	
25.	6.04a PNR low ID vs. 6.04 high ID	
26.	6.04a high ID vs. 6.04a low ID	
27.	6.04 PNR high ID vs. 6.04a low ID	
28.	6.04 PNR low ID vs. 6.04a high ID	
29.	6.04a PNR high ID vs. 6.04a low ID	
30.	6.04a PNR low ID vs. 6.04a high ID	

APPENDIX C

NMAC TABLES

MITRE encounter class: 0 "planned = CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 0.1

Number of unresolved NMACs with neither aircraft having an RA
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 8
Normalizing number for TCAS-TCAS cells: 16

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	—	0	0	0	—
	6.02	0	0	0	0	—
	6.04	0	0	0	0	—
	6.05	0	0	0	0	—
		—	—	—	—	—

Table 0.2

Number of unresolved NMACs with at least one aircraft having an RA
(based on simulation truth).

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 8
Normalizing number for TCAS-TCAS cells: 16

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	—	0	0	0	—
	6.02	0	0	0	0	—
	6.04	0	0	0	0	—
	6.05	0	0	0	0	—
		—	—	—	—	—

MITRE encounter class: 0 "planned = CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 0.3

Total number of unresolved NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an NMAC, based on simulation truth): 8
Normalizing number for TCAS-TCAS cells: 16

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	—	0	0	0	—
	6.02	0	0	0	0	—
	6.04	0	0	0	0	—
	6.05	0	0	0	0	—
		—	—	—	—	—

MITRE encounter class: 0 "planned = CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 0.4

Number of induced NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 10
Normalizing number for TCAS-TCAS cells: 20

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	—	0	0	0	—	
	6.02	0	0	0	0	—	
	6.04	0	0	0	0	—	
	6.05	0	0	0	0	—	
		—	—	—	—	—	

Table 0.5

Number of nuisance RAs with no NMAC
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 10
Normalizing number for TCAS-TCAS cells: 20

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	—	10	10	10	—	
	6.02	10	20	20	20	—	
	6.04	10	20	20	20	—	
	6.05	10	20	20	20	—	
		—	—	—	—	—	

MITRE encounter class: 10 "planned = NON CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 10.1

Number of unresolved NMACs with neither aircraft having an RA
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 4
Normalizing number for TCAS-TCAS cells: 8

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	—	0	0	0	—
	6.02	0	0	0	0	—
	6.04	0	0	0	0	—
	6.05	0	0	0	0	—
		—	—	—	—	—

Table 10.2

Number of unresolved NMACs with at least one aircraft having an RA
(based on simulation truth).

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 4
Normalizing number for TCAS-TCAS cells: 8

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	—	0	0	0	—
	6.02	0	0	0	0	—
	6.04	0	0	0	0	—
	6.05	0	0	0	0	—
		—	—	—	—	—

MITRE encounter class: 10 "planned = NON CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 10.3

Total number of unresolved NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an NMAC, based on simulation truth): 4
Normalizing number for TCAS-TCAS cells: 8

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	—	0	0	0	—	
	6.02	0	0	0	0	—	
	6.04	0	0	0	0	—	
	6.05	0	0	0	0	—	
		—	—	—	—	—	

MITRE encounter class: 10 "planned = NON CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 10.4

Number of induced NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 62
Normalizing number for TCAS-TCAS cells: 124

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	—	0	0	0	—	
	6.02	0	0	0	0	—	
	6.04	0	0	0	0	—	
	6.05	0	0	0	0	—	
		—	—	—	—	—	

Table 10.5

Number of nuisance RAs with no NMAC
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 62
Normalizing number for TCAS-TCAS cells: 124

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	—	57	38	38	—	
	6.02	55	118	110	110	—	
	6.04	38	114	76	76	—	
	6.05	38	114	76	76	—	
		—	—	—	—	—	

MITRE encounter class: 1 "planned = CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 1.1

Number of unresolved NMACs with neither aircraft having an RA
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 36
Normalizing number for TCAS-TCAS cells: 72

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	--	0	0	0	--
	6.02	0	0	0	0	--
	6.04	0	0	0	0	--
	6.05	0	0	0	0	--
		--	--	--	--	--

Table 1.2

Number of unresolved NMACs with at least one aircraft having an RA
(based on simulation truth).

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 36
Normalizing number for TCAS-TCAS cells: 72

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	--	0	0	0	--
	6.02	0	0	0	0	--
	6.04	0	0	0	0	--
	6.05	0	0	0	0	--
		--	--	--	--	--

MITRE encounter class: 1 "planned = CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 1.3

Total number of unresolved NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an NMAC, based on simulation truth): 36
Normalizing number for TCAS-TCAS cells: 72

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	--	0	0	0	--
	6.02	0	0	0	0	--
	6.04	0	0	0	0	--
	6.05	0	0	0	0	--
		--	--	--	--	--

MITRE encounter class: 1 "planned = CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 1.4

Number of induced NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 152
Normalizing number for TCAS-TCAS cells: 304

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	—	0	0	0	—
	6.02	0	0	0	0	—
	6.04	0	0	0	0	—
	6.05	0	0	0	0	—
		—	—	—	—	—

Table 1.5

Number of nuisance RAs with no NMAC
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 152
Normalizing number for TCAS-TCAS cells: 304

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	—	152	145	145	—
	6.02	152	304	304	304	—
	6.04	145	304	290	290	—
	6.05	145	304	290	290	—
		—	—	—	—	—

MITRE encounter class: 11 "planned = NON CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 11.1

Number of unresolved NMACs with neither aircraft having an RA
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 0
Normalizing number for TCAS-TCAS cells: 0

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	—	0	0	0	—	
	6.02	0	0	0	0	—	
	6.04	0	0	0	0	—	
	6.05	0	0	0	0	—	
		—	—	—	—	—	

Table 11.2

Number of unresolved NMACs with at least one aircraft having an RA
(based on simulation truth).

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 0
Normalizing number for TCAS-TCAS cells: 0

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	—	0	0	0	—	
	6.02	0	0	0	0	—	
	6.04	0	0	0	0	—	
	6.05	0	0	0	0	—	
		—	—	—	—	—	

MITRE encounter class: 11 "planned = NON CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 11.3

Total number of unresolved NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an NMAC, based on simulation truth): 0
Normalizing number for TCAS-TCAS cells: 0

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	--	0	0	0	—	
	6.02	0	0	0	0	—	
	6.04	0	0	0	0	—	
	6.05	0	0	0	0	—	
		--	—	—	—	—	

MITRE encounter class: 11 "planned = NON CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 11.4

Number of induced NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 64
Normalizing number for TCAS-TCAS cells: 128

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	—	0	0	0	—	
	6.02	0	0	0	0	—	
	6.04	0	0	0	0	—	
	6.05	0	0	0	0	—	
		—	—	—	—	—	

Table 11.5

Number of nuisance RAs with no NMAC
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 64
Normalizing number for TCAS-TCAS cells: 128

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	—	64	38	38	—	
	6.02	64	128	128	128	—	
	6.04	38	128	76	76	—	
	6.05	38	128	76	76	—	
		—	—	—	—	—	

MITRE encounter class: 2 "planned = CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 2.1

Number of unresolved NMACs with neither aircraft having an RA
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 432
Normalizing number for TCAS-TCAS cells: 864

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	—	0	0	0	—	
	6.02	0	0	0	0	—	
	6.04	0	0	0	0	—	
	6.05	0	0	0	0	—	
		—	—	—	—	—	

Table 2.2

Number of unresolved NMACs with at least one aircraft having an RA
(based on simulation truth).

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 432
Normalizing number for TCAS-TCAS cells: 864

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	—	0	0	0	—	
	6.02	2	0	0	0	—	
	6.04	14	2	5	5	—	
	6.05	14	2	5	5	—	
		—	—	—	—	—	

MITRE encounter class: 2 "planned = CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 2.3

Total number of unresolved NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 432
Normalizing number for TCAS-TCAS cells: 864

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	—	0	0	0	—
	6.02	2	0	0	0	—
	6.04	14	2	5	5	—
	6.05	14	2	5	5	—
		—	—	—	—	—

MITRE encounter class: 2 "planned = CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 2.4

Number of induced NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 1516
Normalizing number for TCAS-TCAS cells: 3032

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	--	56	63	63	--
	6.02	206	12	16	16	--
	6.04	170	20	52	52	--
	6.05	170	20	52	52	--
		--	--	--	--	--

Table 2.5

Number of nuisance RAs with no NMAC
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 1516
Normalizing number for TCAS-TCAS cells: 3032

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	--	1460	1439	1439	--
	6.02	1310	3020	3016	3016	--
	6.04	1338	3012	2970	2970	--
	6.05	1338	3012	2970	2970	--
		--	--	--	--	--

MITRE encounter class: 12 "planned = NON CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 12.1

Number of unresolved NMACs with neither aircraft having an RA
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 0
Normalizing number for TCAS-TCAS cells: 0

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	—	0	0	0	—
	6.02	0	0	0	0	—
	6.04	0	0	0	0	—
	6.05	0	0	0	0	—
		—	—	—	—	—

Table 12.2

Number of unresolved NMACs with at least one aircraft having an RA
(based on simulation truth).

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 0
Normalizing number for TCAS-TCAS cells: 0

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	—	0	0	0	—
	6.02	0	0	0	0	—
	6.04	0	0	0	0	—
	6.05	0	0	0	0	—
		—	—	—	—	—

MITRE encounter class: 12 "planned = NON CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 12.3

Total number of unresolved NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 0
Normalizing number for TCAS-TCAS cells: 0

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	—	0	0	0	—	
	6.02	0	0	0	0	—	
	6.04	0	0	0	0	—	
	6.05	0	0	0	0	—	
		—	—	—	—	—	

MITRE encounter class: 12 "planned = NON CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 12.4

Number of induced NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 1076
Normalizing number for TCAS-TCAS cells: 2152

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	—	0	0	0	—	
	6.02	10	0	0	0	—	
	6.04	13	0	1	1	—	
	6.05	13	0	1	1	—	
		—	—	—	—	—	

Table 12.5

Number of nuisance RAs with no NMAC
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 1076
Normalizing number for TCAS-TCAS cells: 2152

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	—	1076	768	768	—	
	6.02	1066	2152	2152	2152	—	
	6.04	803	2152	1643	1643	—	
	6.05	803	2152	1643	1643	—	
		—	—	—	—	—	

MITRE encounter class: 3 "planned = CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 3.1

Number of unresolved NMACs with neither aircraft having an RA
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 368
Normalizing number for TCAS-TCAS cells: 736

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	--	0	0	0	--
	6.02	0	0	0	0	--
	6.04	0	0	0	0	--
	6.05	0	0	0	0	--
		--	--	--	--	--

Table 3.2

Number of unresolved NMACs with at least one aircraft having an RA
(based on simulation truth).

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 368
Normalizing number for TCAS-TCAS cells: 736

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	--	0	0	0	--
	6.02	17	0	0	0	--
	6.04	33	0	0	0	--
	6.05	33	0	0	0	--
		--	--	--	--	--

MITRE encounter class: 3 "planned = CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 3.3

Total number of unresolved NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an NMAC, based on simulation truth): 368
Normalizing number for TCAS-TCAS cells: 736

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	—	0	0	0	—
	6.02	17	0	0	0	—
	6.04	33	0	0	0	—
	6.05	33	0	0	0	—
		—	—	—	—	—

MITRE encounter class: 3 "planned = CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 3.4

Number of induced NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 1208
Normalizing number for TCAS-TCAS cells: 2416

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	--	0	0	0	—	
	6.02	0	0	0	0	—	
	6.04	0	0	0	0	—	
	6.05	0	0	0	0	—	
		--	--	--	--	--	

Table 3.5

Number of nuisance RAs with no NMAC
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 1208
Normalizing number for TCAS-TCAS cells: 2416

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	--	966	748	748	—	
	6.02	934	1940	1868	1868	—	
	6.04	746	1932	1496	1496	—	
	6.05	746	1932	1496	1496	—	
		--	--	--	--	--	

MITRE encounter class: 13 "planned = NON CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 13.1

Number of unresolved NMACs with neither aircraft having an RA
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 64
Normalizing number for TCAS-TCAS cells: 128

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	—	0	0	0	—	
	6.02	0	0	0	0	—	
	6.04	0	0	0	0	—	
	6.05	0	0	0	0	—	
		—	—	—	—	—	

Table 13.2

Number of unresolved NMACs with at least one aircraft having an RA
(based on simulation truth).

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 64
Normalizing number for TCAS-TCAS cells: 128

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	—	0	0	0	—	
	6.02	1	0	0	0	—	
	6.04	1	0	0	0	—	
	6.05	1	0	0	0	—	
		—	—	—	—	—	

MITRE encounter class: 13 "planned = NON CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 13.3

Total number of unresolved NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an NMAC, based on simulation truth): 64
Normalizing number for TCAS-TCAS cells: 128

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	--	0	0	0	--
	6.02	1	0	0	0	--
	6.04	1	0	0	0	--
	6.05	1	0	0	0	--
		--	--	--	--	--

MITRE encounter class: 13 "planned = NON CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 13.4

Number of induced NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 2248
Normalizing number for TCAS-TCAS cells: 4496

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	--	0	26	19	--
	6.02	8	0	2	0	--
	6.04	11	14	21	3	--
	6.05	11	8	18	4	--
		--	--	--	--	--

Table 13.5

Number of nuisance RAs with no NMAC
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 2248
Normalizing number for TCAS-TCAS cells: 4496

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	--	1724	1280	1287	--
	6.02	1642	3624	3498	3500	--
	6.04	1174	3434	2691	2709	--
	6.05	1174	3440	2694	2708	--
		--	--	--	--	--

MITRE encounter class: 4 "planned = CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 4.1

Number of unresolved NMACs with neither aircraft having an RA
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 60
Normalizing number for TCAS-TCAS cells: 120

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	--	0	0	0	--
	6.02	0	0	0	0	--
	6.04	0	0	0	0	--
	6.05	0	0	0	0	--
		--	--	--	--	--

Table 4.2

Number of unresolved NMACs with at least one aircraft having an RA
(based on simulation truth).

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 60
Normalizing number for TCAS-TCAS cells: 120

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	--	0	0	0	--
	6.02	0	0	0	0	--
	6.04	0	0	0	0	--
	6.05	0	0	0	0	--
		--	--	--	--	--

MITRE encounter class: 4 "planned = CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 4.3

Total number of unresolved NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an NMAC, based on simulation truth): 60
Normalizing number for TCAS-TCAS cells: 120

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	—	0	0	0	—
	6.02	0	0	0	0	—
	6.04	0	0	0	0	—
	6.05	0	0	0	0	—
		—	—	—	—	—

MITRE encounter class: 4 "planned = CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 4.4

Number of induced NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 304
Normalizing number for TCAS-TCAS cells: 608

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	--	0	1	0	--	
	6.02	0	0	0	0	--	
	6.04	1	0	0	0	--	
	6.05	0	0	0	0	--	
		--	--	--	--	--	

Table 4.5

Number of nuisance RAs with no NMAC
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 304
Normalizing number for TCAS-TCAS cells: 608

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	--	304	293	294	--	
	6.02	304	608	608	608	--	
	6.04	293	608	588	588	--	
	6.05	294	608	588	588	--	
		--	--	--	--	--	

MITRE encounter class: 14 "planned = NON CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 14.1

Number of unresolved NMACs with neither aircraft having an RA
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 12
Normalizing number for TCAS-TCAS cells: 24

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	--	0	0	0	--	
	6.02	0	0	0	0	--	
	6.04	0	0	0	0	--	
	6.05	0	0	0	0	--	
		--	--	--	--	--	

Table 14.2

Number of unresolved NMACs with at least one aircraft having an RA
(based on simulation truth).

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 12
Normalizing number for TCAS-TCAS cells: 24

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	--	0	0	0	--	
	6.02	0	0	0	0	--	
	6.04	0	0	0	0	--	
	6.05	0	0	0	0	--	
		--	--	--	--	--	

MITRE encounter class: 14 "planned = NON CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 14.3

Total number of unresolved NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an NMAC, based on simulation truth): 12
Normalizing number for TCAS-TCAS cells: 24

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	—	0	0	0	—	
	6.02	0	0	0	0	—	
	6.04	0	0	0	0	—	
	6.05	0	0	0	0	—	
		—	—	—	—	—	

MITRE encounter class: 14 "planned = NON CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 14.4

Number of induced NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 128
Normalizing number for TCAS-TCAS cells: 256

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	--	0	0	0	--	
	6.02	0	0	0	0	--	
	6.04	0	0	0	0	--	
	6.05	0	0	0	0	--	
		--	--	--	--	--	

Table 14.5

Number of nuisance RAs with no NMAC
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 128
Normalizing number for TCAS-TCAS cells: 256

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	--	120	84	84	--	
	6.02	120	256	240	240	--	
	6.04	84	240	168	168	--	
	6.05	84	240	168	168	--	
		--	--	--	--	--	

MITRE encounter class: 5 "planned = CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 5.1

Number of unresolved NMACs with neither aircraft having an RA
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 790
Normalizing number for TCAS-TCAS cells: 1580

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	--	0	0	0	--	
	6.02	0	0	0	0	--	
	6.04	0	0	0	0	--	
	6.05	0	0	0	0	--	
		--	--	--	--	--	

Table 5.2

Number of unresolved NMACs with at least one aircraft having an RA
(based on simulation truth).

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 790
Normalizing number for TCAS-TCAS cells: 1580

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	--	0	0	6	--	
	6.02	69	0	0	0	--	
	6.04	96	0	0	0	--	
	6.05	91	0	0	0	--	
		--	--	--	--	--	

MITRE encounter class: 5 "planned = CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 5.3

Total number of unresolved NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an NMAC, based on simulation truth): 790
Normalizing number for TCAS-TCAS cells: 1580

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	--	0	0	6	--
	6.02	69	0	0	0	--
	6.04	96	0	0	0	--
	6.05	91	0	0	0	--
		--	--	--	--	--

MITRE encounter class: 5 "planned = CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 5.4

Number of induced NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 3744
Normalizing number for TCAS-TCAS cells: 7488

Aircraft 1	Aircraft 2	Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	--	40	107	102	--
	6.02	176	4	8	8	--
	6.04	165	8	26	26	--
	6.05	165	8	26	26	--
		--	--	--	--	--

Table 5.5

Number of nuisance RAs with no NMAC
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 3744
Normalizing number for TCAS-TCAS cells: 7488

Aircraft 1	Aircraft 2	Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	--	3690	3470	3475	--
	6.02	3554	7484	7452	7452	--
	6.04	3424	7452	7166	7166	--
	6.05	3424	7452	7166	7166	--
		--	--	--	--	--

MITRE encounter class: 15 "planned = NON CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 15.1

Number of unresolved NMACs with neither aircraft having an RA
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 74
Normalizing number for TCAS-TCAS cells: 148

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	--	0	0	0	--	
	6.02	0	0	0	0	--	
	6.04	0	0	0	0	--	
	6.05	0	0	0	0	--	
		--	--	--	--	--	

Table 15.2

Number of unresolved NMACs with at least one aircraft having an RA
(based on simulation truth).

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 74
Normalizing number for TCAS-TCAS cells: 148

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	--	0	0	0	--	
	6.02	28	0	0	0	--	
	6.04	26	0	0	0	--	
	6.05	25	0	0	0	--	
		--	--	--	--	--	

MITRE encounter class: 15 "planned = NON CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 15.3

Total number of unresolved NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an NMAC, based on simulation truth): 74
Normalizing number for TCAS-TCAS cells: 148

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	—	0	0	0	—
	6.02	28	0	0	0	—
	6.04	26	0	0	0	—
	6.05	25	0	0	0	—
		—	—	—	—	—

MITRE encounter class: 15 "planned = NON CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 15.4

Number of induced NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 1440
Normalizing number for TCAS-TCAS cells: 2880

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	--	8	1	7	--
	6.02	8	0	9	7	--
	6.04	8	12	28	27	--
	6.05	8	4	25	21	--
		--	--	--	--	--

Table 15.5

Number of nuisance RAs with no NMAC
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 1440
Normalizing number for TCAS-TCAS cells: 2880

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	--	1394	1039	1014	--
	6.02	1403	2880	2813	2815	--
	6.04	1089	2800	2220	2213	--
	6.05	1089	2808	2223	2219	--
		--	--	--	--	--

MITRE encounter class: 6 "planned = CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 6.1

Number of unresolved NMACs with neither aircraft having an RA
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 864
Normalizing number for TCAS-TCAS cells: 1728

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	—	0	0	0	—
	6.02	0	0	0	0	—
	6.04	2	0	0	0	—
	6.05	4	0	0	0	—
		—	—	—	—	—

Table 6.2

Number of unresolved NMACs with at least one aircraft having an RA
(based on simulation truth).

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 864
Normalizing number for TCAS-TCAS cells: 1728

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	—	0	7	5	—
	6.02	56	0	0	4	—
	6.04	118	4	5	13	—
	6.05	86	4	4	14	—
		—	—	—	—	—

MITRE encounter class: 6 "planned = CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 6.3

Total number of unresolved NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an NMAC, based on simulation truth): 864
Normalizing number for TCAS-TCAS cells: 1728

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	--	0	7	5	--
	6.02	56	0	0	4	--
	6.04	120	4	5	13	--
	6.05	90	4	4	14	--
		--	--	--	--	--

MITRE encounter class: 6 "planned = CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 6.4

Number of induced NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 3692
Normalizing number for TCAS-TCAS cells: 7384

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	--	44	60	49	--	
	6.02	16	28	43	19	--	
	6.04	25	30	60	27	--	
	6.05	25	20	37	12	--	
		--	--	--	--	--	

Table 6.5

Number of nuisance RAs with no NMAC
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 3692
Normalizing number for TCAS-TCAS cells: 7384

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	--	3648	3409	3430	--	
	6.02	3668	7356	7333	7357	--	
	6.04	3437	7354	6960	7009	--	
	6.05	3448	7364	6995	7024	--	
		--	--	--	--	--	

MITRE encounter class: 16 "planned = NON CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 16.1

Number of unresolved NMACs with neither aircraft having an RA
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 0
Normalizing number for TCAS-TCAS cells: 0

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	--	0	0	0	--
	6.02	0	0	0	0	--
	6.04	0	0	0	0	--
	6.05	0	0	0	0	--
		--	--	--	--	--

Table 16.2

Number of unresolved NMACs with at least one aircraft having an RA
(based on simulation truth).

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 0
Normalizing number for TCAS-TCAS cells: 0

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	--	0	0	0	--
	6.02	0	0	0	0	--
	6.04	0	0	0	0	--
	6.05	0	0	0	0	--
		--	--	--	--	--

MITRE encounter class: 16 "planned = NON CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 16.3

Total number of unresolved NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an NMAC, based on simulation truth): 0
Normalizing number for TCAS-TCAS cells: 0

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	--	0	0	0	--
	6.02	0	0	0	0	--
	6.04	0	0	0	0	--
	6.05	0	0	0	0	--
		--	--	--	--	--

MITRE encounter class: 16 "planned = NON CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 16.4

Number of induced NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 1492
Normalizing number for TCAS-TCAS cells: 2984

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	--	0	10	4	--
	6.02	14	15	21	7	--
	6.04	17	10	23	2	--
	6.05	16	6	12	1	--
		--	--	--	--	--

Table 16.5

Number of nuisance RAs with no NMAC
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 1492
Normalizing number for TCAS-TCAS cells: 2984

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	--	1488	1169	1176	--
	6.02	1474	2969	2959	2973	--
	6.04	1159	2966	2549	2572	--
	6.05	1151	2970	2556	2569	--
		--	--	--	--	--

MITRE encounter class: 7 "planned = CROSSING" Date processed: 6/22/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 7.1

Number of unresolved NMACs with neither aircraft having an RA
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 1208
Normalizing number for TCAS-TCAS cells: 2416

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	--	0	0	0	--
	6.02	0	0	0	0	--
	6.04	0	0	0	0	--
	6.05	0	0	0	0	--
		--	--	--	--	--

Table 7.2

Number of unresolved NMACs with at least one aircraft having an RA
(based on simulation truth).

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 1208
Normalizing number for TCAS-TCAS cells: 2416

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	--	64	124	125	--
	6.02	51	0	0	0	--
	6.04	92	0	4	4	--
	6.05	92	0	4	4	--
		--	--	--	--	--

MITRE encounter class: 7 "planned = CROSSING" Date processed: 6/22/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 7.3

Total number of unresolved NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 1208
Normalizing number for TCAS-TCAS cells: 2416

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	--	64	124	125	--
	6.02	51	0	0	0	--
	6.04	92	0	4	4	--
	6.05	92	0	4	4	--
		--	--	--	--	--

MITRE encounter class: 7 "planned = CROSSING" Date processed: 6/22/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 7.4

Number of induced NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 4994
Normalizing number for TCAS-TCAS cells: 9988

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	--	425	409	422	--
	6.02	511	97	146	146	--
	6.04	557	121	191	190	--
	6.05	562	125	197	196	--
		--	--	--	--	--

Table 7.5

Number of nuisance RAs with no NMAC
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 4994
Normalizing number for TCAS-TCAS cells: 9988

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	--	4569	4556	4543	--
	6.02	4483	9891	9842	9842	--
	6.04	4418	9867	9761	9762	--
	6.05	4413	9863	9755	9756	--
		--	--	--	--	--

MITRE encounter class: 17 "planned = NON CROSSING" Date processed: 6/22/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 17.1

Number of unresolved NMACs with neither aircraft having an RA
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 88
Normalizing number for TCAS-TCAS cells: 176

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	--	0	0	0	--
	6.02	0	0	0	0	--
	6.04	0	0	0	0	--
	6.05	0	0	0	0	--
		--	--	--	--	--

Table 17.2

Number of unresolved NMACs with at least one aircraft having an RA
(based on simulation truth).

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 88
Normalizing number for TCAS-TCAS cells: 176

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	--	19	12	12	--
	6.02	17	0	0	0	--
	6.04	11	0	0	0	--
	6.05	11	0	0	0	--
		--	--	--	--	--

MITRE encounter class: 17 "planned = NON CROSSING" Date processed: 6/22/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 17.3

Total number of unresolved NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 88
Normalizing number for TCAS-TCAS cells: 176

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	—	19	12	12	—	
	6.02	17	0	0	0	—	
	6.04	11	0	0	0	—	
	6.05	11	0	0	0	—	
		—	—	—	—	—	

MITRE encounter class: 17 "planned = NON CROSSING" Date processed: 6/22/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 17.4

Number of induced NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 2782
Normalizing number for TCAS-TCAS cells: 5564

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	--	0	18	21	--
	6.02	0	5	7	7	--
	6.04	9	4	21	19	--
	6.05	10	3	14	14	--
		--	--	--	--	--

Table 17.5

Number of nuisance RAs with no NMAC
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 2782
Normalizing number for TCAS-TCAS cells: 5564

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	--	2752	2024	2019	--
	6.02	2731	5559	5509	5509	--
	6.04	2060	5508	4379	4381	--
	6.05	2055	5509	4386	4386	--
		--	--	--	--	--

MITRE encounter class: 8 "planned = CROSSING" Date processed: 6/23/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 8.1

Number of unresolved NMACs with neither aircraft having an RA
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 1296
Normalizing number for TCAS-TCAS cells: 2592

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	--	0	1	4	--	
	6.02	0	0	0	0	--	
	6.04	0	0	0	0	--	
	6.05	0	0	0	0	--	
		--	--	--	--	--	

Table 8.2

Number of unresolved NMACs with at least one aircraft having an RA
(based on simulation truth).

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 1296
Normalizing number for TCAS-TCAS cells: 2592

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	--	35	98	89	--	
	6.02	12	0	2	2	--	
	6.04	75	20	30	30	--	
	6.05	69	20	30	30	--	
		--	--	--	--	--	

MITRE encounter class: 8 "planned = CROSSING" Date processed: 6/23/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 8.3

Total number of unresolved NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an NMAC, based on simulation truth): 1296
Normalizing number for TCAS-TCAS cells: 2592

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	--	35	99	93	--	
	6.02	12	0	2	2	--	
	6.04	75	20	30	30	--	
	6.05	69	20	30	30	--	
		--	--	--	--	--	

MITRE encounter class: 8 "planned = CROSSING" Date processed: 6/23/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 8.4

Number of induced NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 5022
Normalizing number for TCAS-TCAS cells: 10044

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	--	168	182	184	--	
	6.02	487	38	86	74	--	
	6.04	473	118	204	184	--	
	6.05	479	128	207	188	--	
		--	--	--	--	--	

Table 8.5

Number of nuisance RAs with no NMAC
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 5022
Normalizing number for TCAS-TCAS cells: 10044

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	--	4842	4520	4518	--	
	6.02	4529	10006	9946	9958	--	
	6.04	4310	9902	9388	9408	--	
	6.05	4316	9892	9409	9428	--	
		--	--	--	--	--	

MITRE encounter class: 18 "planned = NON CROSSING" Date processed: 6/23/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 18.1

Number of unresolved NMACs with neither aircraft having an RA
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 0
Normalizing number for TCAS-TCAS cells: 0

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	--	0	0	0	--	
	6.02	0	0	0	0	--	
	6.04	0	0	0	0	--	
	6.05	0	0	0	0	--	
		--	--	--	--	--	

Table 18.2

Number of unresolved NMACs with at least one aircraft having an RA
(based on simulation truth).

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 0
Normalizing number for TCAS-TCAS cells: 0

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	--	0	0	0	--	
	6.02	0	0	0	0	--	
	6.04	0	0	0	0	--	
	6.05	0	0	0	0	--	
		--	--	--	--	--	

MITRE encounter class: 18 "planned = NON CROSSING" Date processed: 6/23/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 18.3

Total number of unresolved NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an NMAC, based on simulation truth): 0
Normalizing number for TCAS-TCAS cells: 0

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	--	0	0	0	--
	6.02	0	0	0	0	--
	6.04	0	0	0	0	--
	6.05	0	0	0	0	--
		--	--	--	--	--

MITRE encounter class: 18 "planned = NON CROSSING" Date processed: 6/23/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 18.4

Number of induced NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 2754
Normalizing number for TCAS-TCAS cells: 5508

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	--	40	24	18	--
	6.02	27	14	16	8	--
	6.04	104	26	29	21	--
	6.05	72	17	28	17	--
		--	--	--	--	--

Table 18.5

Number of nuisance RAs with no NMAC
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 2754
Normalizing number for TCAS-TCAS cells: 5508

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	--	2710	2221	2198	--
	6.02	2724	5494	5486	5494	--
	6.04	2058	5482	4687	4673	--
	6.05	2094	5491	4692	4685	--
		--	--	--	--	--

MITRE encounter class: 9 "planned = CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 9.1

Number of unresolved NMACs with neither aircraft having an RA
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 579
Normalizing number for TCAS-TCAS cells: 1158

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	--	0	0	0	--	
	6.02	0	0	0	0	--	
	6.04	1	0	0	0	--	
	6.05	0	0	0	0	--	
		--	--	--	--	--	

Table 9.2

Number of unresolved NMACs with at least one aircraft having an RA
(based on simulation truth).

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 579
Normalizing number for TCAS-TCAS cells: 1158

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	--	1	27	18	--	
	6.02	17	0	0	0	--	
	6.04	52	0	2	1	--	
	6.05	61	0	0	0	--	
		--	--	--	--	--	

MITRE encounter class: 9 "planned = CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 9.3

Total number of unresolved NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an NMAC, based on simulation truth): 579
Normalizing number for TCAS-TCAS cells: 1158

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	—	1	27	18	—	
	6.02	17	0	0	0	—	
	6.04	53	0	2	1	—	
	6.05	61	0	0	0	—	
		—	—	—	—	—	

MITRE encounter class: 9 "planned = CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 9.4

Number of induced NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 2904
Normalizing number for TCAS-TCAS cells: 5808

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	—	6	11	5	—
	6.02	3	1	3	5	—
	6.04	14	1	13	12	—
	6.05	2	0	13	18	—
		—	—	—	—	—

Table 9.5

Number of nuisance RAs with no NMAC
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 2904
Normalizing number for TCAS-TCAS cells: 5808

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	—	2374	1860	1956	—
	6.02	2267	4773	4537	4683	—
	6.04	1887	4763	3817	3992	—
	6.05	1996	4984	4017	4022	—
		—	—	—	—	—

MITRE encounter class: 19 "planned = NON CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 19.1

Number of unresolved NMACs with neither aircraft having an RA
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 285
Normalizing number for TCAS-TCAS cells: 570

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	--	0	0	0	--	
	6.02	0	0	0	0	--	
	6.04	0	0	0	0	--	
	6.05	0	0	0	0	--	
		--	--	--	--	--	

Table 19.2

Number of unresolved NMACs with at least one aircraft having an RA
(based on simulation truth).

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an
NMAC, based on simulation truth): 285
Normalizing number for TCAS-TCAS cells: 570

		Aircraft 2					
		Mode C	6.02	6.04	6.05		
Aircraft 1	Mode C	--	1	36	32	--	
	6.02	5	0	0	0	--	
	6.04	8	0	0	0	--	
	6.05	5	0	0	0	--	
		--	--	--	--	--	

MITRE encounter class: 19 "planned = NON CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 19.3

Total number of unresolved NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that resulted in an NMAC, based on simulation truth): 285
Normalizing number for TCAS-TCAS cells: 570

		Aircraft 2				
		Mode C	6.02	6.04	6.05	
Aircraft 1	Mode C	--	1	36	32	--
	6.02	5	0	0	0	--
	6.04	8	0	0	0	--
	6.05	5	0	0	0	--
		--	--	--	--	--

MITRE encounter class: 19 "planned = NON CROSSING" Date processed: 6/21/94
TCAS Logic Version 6.04a; All aircraft responding. June 1994

Table 19.4

Number of induced NMACs
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 4008
Normalizing number for TCAS-TCAS cells: 8016

Aircraft 1	Aircraft 2	Mode C	6.02	6.04	6.05	
	Mode C	--	48	132	115	--
	6.02	29	197	194	101	--
	6.04	68	223	233	105	--
	6.05	35	140	176	36	--
		--	--	--	--	--

Table 19.5

Number of nuisance RAs with no NMAC
(based on simulation truth)

Normalizing number for cells in first row and column
(number of planned encounters that did not result in an NMAC, based on simulation truth): 4008
Normalizing number for TCAS-TCAS cells: 8016

Aircraft 1	Aircraft 2	Mode C	6.02	6.04	6.05	
	Mode C	--	3380	2608	2617	--
	6.02	3275	6867	6538	6631	--
	6.04	2597	6715	5521	5651	--
	6.05	2569	6796	5562	5698	--
		--	--	--	--	--

APPENDIX D

PARAMETER FILE DESCRIPTION
AND
PARAMETER FILE PRINTOUT FOR CLASS 9/19
6.02/6.02
6.04/6.04
6.04a/6.04a

March 29, 1994

The following is the intended format of the parameter file. The data will not include any header labels. The data will be printed in the following order.

```
Data_File                       alpha-numeric (8 chars.),
Category                        integer (0..19),
Table number                    integer (1..5),
Row number                      integer(1..5),
Column number                   integer(1..5),
Reiteration number              integer(1..999999), (* simulation #*)
Simulation mode number          integer(16001..26414) (* simulation id *)
Geometry_Index                  integer (1..9999) (* geometry id *)
AC #1 equipage                  integer(0, 60, 64), (* 0 --> mode C *)
AC #2 equipage                  integer(0, 60, 64), (* 0 --> mode C *)
AC #1 responding                integer(0..1), (* 0 - false, 1 - true *)
AC #2 responding                integer(0..1), (* 0 - false, 1 - true *)
Achieved separation             real(0.0..+/-9999.9), (* feet *)
Converging RA                   integer (0..1), (* 0 - false, 1 - true *)
Crossing encounter              integer (0..1), (* 0 - false, 1 - true *)
AC #1 TA Sensitivity level      integer(0..7),
AC #2 TA Sensitivity level      integer(0..7),
AC #1 RA Sensitivity level      integer(0..7),
AC #2 RA Sensitivity level      integer(0..7),
AC #1 Mode S ID                 integer(0..999),
AC #2 Mode S ID                 integer(0..999),
CPA altitude separation         real(0.0..+/-9999.9), (* FT  *)
AC #1 vertical rate             real(0.0..+/-9999.9), (* FPM *)
AC #2 vertical rate             real(0.0..+/-9999.9), (* FPM *)
AC #1 acceleration              real(0.0..+/-0.35?), (* G's *)
AC #2 acceleration              real(0.0..+/-0.35?), (* G's *)
AC #1 acceleration time         real(0.0..-99.9), (* sec. - CPA relative *)
AC #2 acceleration time         real(0.0..-99.9)  (* sec. - CPA relative *)
Own Alt CPA Achieved            real(0.0..+/-9999.9),  (* FT *)
AC #1 CPA altitude              real(0.0..+/-9999.9),  (* FT *)
RA displayed                    integer(0..2)
                                    (* 0 - none, 1 - AC #1,
                                       2 - AC #2, 3 - both *)
RA selection                    integer(0..3)
                                    (* 0 - no selection, 1 - AC #1,
                                       2 - AC #2, 3 - unknown *)
Inhibit indication              integer(0..3) (* 0 - none, 1 - AC #1,
                                       2 - AC #2, 3 - both *)
VT Issued RA                    integer (0..1) (* 0 - false, 1 - true *)
RA 600 FT Rule                  integer (0..1) (* 0 - false, 1 - true *)
Level Wait                      integer (0..1) (* 0 - false, 1 - true *)
Defer Display                   integer (0..1) (* 0 - false, 1 - true *)
Firmness Delay                  integer (0..1) (* 0 - false, 1 - true *)
Logic Crossing                  integer (0..1) (* 0 - false, 1 - true *)
RA Enable Time                  integer (0.. +/-90) (* time RAs were enabled
                                       + -> after CPA, - -> before CPA *)
RA Disabled Time                integer (0.. +/-90) (* time RAs were disabled
                                       + -> after CPA, - -> before CPA *)
RA Start Time                   integer (0..+/-90)  (* time RAs were issued
                                       + -> after CPA, - -> before CPA *)
RA Ending Time                  integer (0..+/-90)  (* time RAs were ended
                                       + -> after CPA, - -> before CPA *)
AC #1 RA Tracked Alt Rate       real (0..+/-9999)
AC #2 RA Tracked Alt Rate       real (0..+/-9999)
Initially Crossing RA           integer (0..1) (* 0 -> false, 1 -> true *)
```

```
AC #1 worst RA                  integer(-19..19) (* Most severe RA displayed *)
AC #2 worst RA                  integer(-19..19) (* Same as above  *)
AC #1 initial RA                integer(-19..19) (* First RA displayed *)
AC #2 initial RA                integer(-19..19) (* Same as above  *)
RA sequence time #1             real(0.0..99.9)  (* 1st RA displayed *)
RA sequence severity #1         integer(+/-9..+/-21)  (* see below *)
RA sequence time #2             real(0.0..99.9)  (* 2nd RA displayed *)
RA sequence severity #2         integer(+/-9..+/-21)  (* see below *)
RA sequence time #3             real(0.0..99.9)  (* 3rd RA displayed *)
RA sequence severity #3         integer(+/-9..+/-21)  (* see below *)
RA sequence time #4             real(0.0..99.9)  (* 4th RA displayed *)
RA sequence severity #4         integer(+/-9..+/-21)  (* see below *)
RA sequence time #5             real(0.0..99.9)  (* 5th RA displayed *)
RA sequence severity #5         integer(+/-9..+/-21)  (* see below *)
RA sequence time #6             real(0.0..99.9)  (* 6th RA displayed *)
RA sequence severity #6         integer(+/-9..+/-21)  (* see below *)
RA sequence time #7             real(0.0..99.9)  (* 7th RA displayed *)
RA sequence severity #7         integer(+/-9..+/-21)  (* see below *)
RA sequence time #8             real(0.0..99.9)  (* 8th RA displayed *)
RA sequence severity #8         integer(+/-9..+/-21)  (* see below *)
RA sequence time #9             real(0.0..99.9)  (* 9th RA displayed *)
RA sequence severity #9         integer(+/-9..+/-21)  (* see below *)
RA sequence time #10            real(0.0..99.9)  (*10th RA displayed *)
RA sequence severity #10        integer(+/-9..+/-21)  (* see below *)
Climb Determination             real(0..99999.99)
Descend Determination           real(0..99999.99)
POT_AC1_ZD                      real(0..99999.99)
POT_AC2_ZD                      real(0..99999.99)
Intruder_receipt_time           real(0..99999.99)
PVMD on cycle prior to POTRA    real(0..99999.99)
PVMD on POTRA cycle             real(0..99999.99)
PVMD on INITIAL RA cycle        real(0..99999.99)
```

To aid in the proper use of these parameters, the following paragraphs will explain exactly what the parameters are.

DATA FILE - This is the name of the scenario definition file which was used to generate the encounter for this data.

CATEGORY - This is the number which corresponds to the MITRE encounter classes (0 - 19).

TABLE, ROW, & COLUMN NUMBERS - These numbers are indicators to the matrix and cell entry which corresponds to the parameter values.

REITERATION NUMBER - This number is an indication of the reiteration in the simulation process. The number can be used, in conjunction with the next number, by the simulation process when it is desired to re-run the simulation and select a particular encounter for more detailed review.

SIMULATION MODE NUMBER - This number is an indication of the equipage pairing of the simulation run. This number is used in conjunction with the previous number to select a particular encounter to be re-run. The number is a five digit value of the form, XYYZZ. X is the aircraft indication (1 or 2). YY is the logic version of own aircraft (60 or 64). ZZ is the equipage pairing identification (1 - 14).

GEOMETRY INDEX - This field is an indication of which geometry the simulation was running.

AC #1 EQUIPAGE - This is the logic version of the AC #1 aircraft (0, 60 or 64). A value of 0 is entered if the intruder is a Mode C aircraft.

AC #2 EQUIPAGE - This is the logic version of the AC #2 aircraft (0, 60 or 64). A value of 0 is entered if the intruder is a Mode C aircraft.

AC #1 RESPONDING - This is an indication of whether AC #1 is responding to its RA's.

AC #2 RESPONDING - This is an indication of whether AC #2 is responding to its RA's.

ACHIEVED SEPARATION - This is the altitude separation at CPA of the "equipped" encounter. The number is computed, using true FTEG position data, by subtracting the intruder's altitude from own's altitude.

CONVERGING RA - This is an indication of an RA which was issued and resulted in the two aircraft converging at CPA.

CROSSING ENCOUNTER - This is an indication that this encounter was a crossing encounter. This parameter is determined by comparing the true FTEG position data of the two aircraft. If a crossing is indicated then a time check is performed to see if the crossing occurred within -40 and +10 seconds relative to CPA.

AC #1 TA SENSITIVITY LEVEL - This is the sensitivity level of AC #1 at TA time.

AC #2 TA SENSITIVITY LEVEL - This is the sensitivity level of AC #2 at TA time.

AC #1 RA SENSITIVITY LEVEL - This is the sensitivity level of AC #1 at POTRA/RA time.

AC #2 RA SENSITIVITY LEVEL - This is the sensitivity level of AC #2 at POTRA/RA time.

AC #1 MODE S ID - This is AC #1's Mode S identifier.

AC #2 MODE S ID - This is AC #2's Mode S identifier.

CPA ALTITUDE SEPARATION - This is the designed vertical separation at CPA. This value is calculated from the scenario definition file information and the current reiteration number. The number is calculated by the following formula: AC_1_altitude - AC_2_altitude. With the values for the altitudes of AC 1 and AC 2 being calculated from the reiteration numbers.

AC #1 VERTICAL RATE - This is the designed vertical rate of aircraft #1. This value is calculated from the scenario definition file information and the current reiteration number.

AC #2 VERTICAL RATE - This is the designed vertical rate of aircraft #2. This value is calculated from the scenario definition file information and the current reiteration number.

AC #1 ACCELERATION - This is the designed vertical acceleration of aircraft #1. This value is calculated from the scenario definition file information and the current reiteration number. A value of 0 indicates that there was no acceleration applied.

AC #2 ACCELERATION - This is the designed vertical acceleration of aircraft #2. This value is calculated from the scenario definition file information and the current reiteration number. A value of 0 indicates that there was no acceleration applied.

AC #1 ACCELERATION TIME - This is the designed vertical acceleration time of aircraft #1. This value is calculated from the scenario definition file information and the current reiteration number. A value of 0 in this field

can have 2 possible meanings. 1). If there is no acceleration applied as indicated by the previous parameter, then this field will also be 0. 2). If an acceleration is applied then a 0 value indicated that the acceleration occurred at CPA.

AC #2 ACCELERATION TIME - This is the designed vertical acceleration time of aircraft #2. This value is calculated from the scenario definition file information and the current reiteration number. A value of 0 in this field can have 2 possible meanings. 1). If there is no acceleration applied as indicated by the previous parameter, then this field will also be 0. 2). If an acceleration is applied then a 0 value indicated that the acceleration occurred at CPA.

Own ALT CPA Achieved - This is the achieved altitude of Own aircraft at CPA. This value is from the recorded simulation true position data.

AC #1 CPA ALTITUDE - This is the designed altitude of aircraft #1 at CPA. This value is calculated from the scenario definition file information and the current reiteration number.

RA DISPLAYED - This is an indication of which aircraft displayed an RA. The possible indications are NONE, AC #1, AC #2, or BOTH.

RA SELECTION - This field is an indication of which aircraft selected the RA sense. The possible indications are NO SELECTION, AC #1, AC #2, or UNKNOWN.

INHIBIT INDICATION - Currently, this field is not used. A default value of zero is used. The field is retained for possible future use. The intended function of this field is to indicate if any aircraft was inhibited at any point during the encounter. The possible indications are NONE, AC #1, AC #2, or BOTH. This parameter is determined by reviewing the climb inhibit and descend inhibit flags at start time, TA time, RA time, CPA time, minimum altitude time, TA end time, and end time.

VT ISSUED RA - This field is an indication that the logic associated with the reduced vertical tau led to OWN's RA selection. This field is a 6.04 logic specific flag. For the parameter file, this flag is set to true if it was true at any time during the encounter.

RA 600 FT RULE - This field is an indication that the logic known as "The 600 FT RULE" led to OWN's RA selection. For the parameter file, this flag is set to true if it was
true at any time during the encounter.

LEVEL WAIT - This field indicates that OWN aircraft was in a "level wait" state before issuing an RA. For the parameter file, this flag is set to true if it was
true at any time during the encounter.

DEFER DISPLAY - This field indicated that OWN aircraft was in a "defer display" state before issuing an RA. For the parameter file, this flag is set to true if it was
true at any time during the encounter.

FIRMNESS DELAY - This field indicates that OWN aircraft was in a "firmness delay" state before issuing an RA. For the parameter file, this flag is set to true if it was
true at any time during the encounter.

LOGIC CROSSING - This field is an indication that either of the CAS logic flags OCROSS or ICROSS was set.

NOTE: THE FOLLOWING 4 FIELDS ARE TIMES RELATIVE TO CPA. CONSIDERING THE FORMAT OF THE SCENARIO DEFINITIONS, THESE FIELDS MAY CONTAIN THE FOLLOWING

"SPECIAL NUMBERS". A TIME OF -60 s INDICATES THE EVENT OCCURRED AT THE START OF THE ENCOUNTER RUN. A TIME OF +30 s INDICATES THAT THE EVENT OCCURRED AT THE END OF THE ENCOUNTER RUN.

RA ENABLE TIME - This field is an indication of the time, relative to CPA, that OWN's RAs were enabled. (- -> before CPA, + -> after CPA)

RA DISABLE TIME - This field is an indication of the time, relative to CPA, that OWN's RAs were disabled. (- -> before CPA, + -> after CPA)

RA START TIME - This field is an indication of the time, relative to CPA, that the first RA of OWN was issued. (- -> before CPA, + -> after CPA)

RA END TIME - This field is an indication of the time, relative to CPA, that the last RA of OWN was ended. (- -> before CPA, + -> after CPA)

AC #1 RA TRACKED ALT RATE - This field is the tracked altitude rate of the AC #1 aircraft at the time of the RA.

AC #2 RA TRACKED ALT RATE - This field is the tracked altitude rate of the AC #2 aircraft at the time of the RA.

INITIALLY CROSSING RA - This field is an indication that the first RA issued by OWN was a crossing RA based on the geometry of the encounter and recorded track data. The recorded track position data, along with the sense of Own's RA, is used to determine if the sense of the RA is toward the intruder aircraft. Additionally, the magnitude of the altitude difference of Own and Intruder is checked to ensure the separation is greater than 100 feet.

AC_#1_worst_RA - This field is an indication of the most severe RA displayed by AC #1; see the translation table below. Currently, we are only recording 1 point of view. Therefore, this field will only be meaningful if the data is recorded from AC #1's point of view; otherwise, this field will contain a 0.

AC_#2_worst_RA - Currently, this field in not used. The intent of this field is to indicate the most severe RA displayed by AC #2; see the translation table below. Currently, we are only recording 1 point of view. Therefore, this field will only be meaningful if the data is recorded from AC #2's point of view; otherwise, this field will contain a 0.

AC_#1_init_RA - This field is an indication of the first RA displayed by AC #1; see the translation table below. Currently, we are only recording 1 point of view. Therefore, this field will only be meaningful if the data is recorded from AC #1's point of view; otherwise, this field will contain a 0.

AC_#2_init_RA - The intent of this field is to give an indication of the first RA displayed by AC #2; see the translation table below. Currently, we are only recording 1 point of view. Therefore, this field will only be meaningful if the data is recorded from AC #2's point of view; otherwise, this field will contain a 0.

NOTE: For the following table: + = climb sense, - = descend sense.

```
(* 0  --> Only surveillance data on intruder. *)
(* 1  --> Qualified for CAS evaluation. *)
(* 2  --> Intruder declared a Proximity target *)
(* 3  --> Intruder declared a TA non Mode C with TCAS on ground *)
(* 4  --> Intruder declared a TA Mode C with TCAS on ground *)
(* 5  --> Intruder declared a TA non Mode C with no aurals generated  *)
```

```
(* 6  --> Intruder declared a TA Mode C with no aurals generated *)
(* 7  --> Intruder declared a TA non Mode C *)
(* 8  --> Intruder declared a TA Mode C *)
(* 9  --> Intruder meets RA criteria but the RA is being deferred *)
(* 10 --> RA was issued but not sure what it was; used for live data *)
(* +/- 11 --> a negative advisory limit rate to 2000 FPM *)
(* +/- 12 --> a negative advisory limit rate to 1000 FPM *)
(* +/- 13 --> a negative advisory limit rate to 500 FPM  *)
(* +/- 14 --> negative advisory i.e. don't climb or dont' descend *)
(* +/- 15 --> positive advisory of a preventive nature *)
(* +/- 16 --> positive advisory of a corrective nature  *)
(* +/- 17 --> a maintain rate RA *)
(* +/- 18 --> when either ICROSS or OCROSS is set *)
(* +/- 19 --> an increased rate RA *)
(* +/- 20 --> a sense reversal RA *)
(* +/- 21 --> an increase rate RA after a reversal RA *)
(* +/- 22 --> ADVISORY INVALID, no longer used; should not be seen *)
```

NOTE:
The next two fields are repeated a total of ten times. They are the time and display information for RA's. The fields are an indication of the sequence in which RA's were displayed during an encounter. Due to the fixed length format of the recording process, only ten entries are permissible. If there happened to be an encounter which had a sequence of RA's which was greater than ten, then the first RA, the worst RA, and the last RA are definitely kept. The RA's which would be missing would be latest RA's assuming they were not the worst or last. The occurrence of such a long sequence is extremely rare.

RA SEQUENCE TIME #1 - This field is the time of OWN's first RA. NOTE: since we are recording information about POTRA, this time may actually be for a POTRA.

RA SEQUENCE SEVERITY #1 - This field contains a numeric code indicating the RA displayed by OWN. This code is the same one which is used for the AC #1/2 WORST RA present above. Since this field is only concerned with RA's then the value will be greater than 8 in magnitude.

CLIMB DETERMINATION - This field contains ZMPCLM, the modelling value of the predicted separation using a climb sense maneuver at the time of the first RA, if available.

DESCEND DETERMINATION -This field contains ZMPDES, the modelling value of the predicted separation using a descend sense maneuver at the time of the first RA, if available.

POT_AC1_ZD - This field contains the TRACKED altitude rate for AC1 at the time of a POTRA.

POT_AC2_ZD - This field contains the TRACKED altitude rate for AC2 at the time of a POTRA.

Intruder_receipt_time - This field contains the time that a message was first received from the TCAS intruder aircraft.

PVMD on cycle prior to POTRA - This field contains the predicted vertical miss distance (PVMD) calculated by CAS for the cycle time exactly prior to the first POTENTIAL RA CYCLE (POTRA).

PVMD on POTRA cycle - This field contains the predicted vertical miss distance (PVMD) calculated by CAS for the cycle time of the first POTENTIAL RA CYCLE (POTRA).

PVMD on INITIAL RA cycle - This field contains the predicted vertical miss distance (PVMD) calculated by CAS for the cycle time of the INITIAL RA CYCLE (RA).

SEQ NUM	CLS TBL	ROW COL																									
00117	9	3	3	3	cl919or	9	3	3	3	3272	2164033	3272	64	64	1	1	-0.0	0	1	3	5	4	4	5	10	0.00	5000.0	-3000.0	-0.15	0.05	-25.0	-30.0	3700.0
00118	9	3	3	3	cl919or	9	3	3	3	3272	2164133	3272	64	64	1	1	-0.0	0	1	3	5	4	4	10	5	0.00	5000.0	-3000.0	-0.15	0.05	-25.0	-30.0	3700.0
00206	9	4	2	2	cl919cf	9	4	2	2	5370	2162022	5370	62	62	1	1	84.8	0	1	5	6	5	6	5	10	-250.00	5000.0	-5000.0	-0.05	0.15	-25.0	-20.0	6922.4
00230	9	4	3	3	cl919or	9	4	3	3	796	2164133	796	64	64	1	1	-61.4	0	1	4	3	4	4	10	5	250.00	3000.0	5000.0	-0.05	-0.05	-25.0	-25.0	3437.8
00231	9	4	3	3	cl919or	9	4	3	3	1410	2164033	1410	64	64	1	1	-21.8	0	1	4	4	4	4	5	10	-250.00	5000.0	3000.0	-0.05	-0.05	-25.0	-30.0	3717.7
00232	9	4	3	3	cl919or	9	4	3	3	1410	2164133	1410	64	64	1	1	84.4	0	1	4	4	4	4	10	5	-250.00	5000.0	3000.0	-0.05	-0.05	-25.0	-30.0	3717.7
00233	9	4	3	3	cl919or	9	4	3	3	1419	2164033	1419	64	64	1	1	45.4	0	1	3	4	4	4	5	10	-250.00	5000.0	3000.0	-0.05	-0.05	-25.0	-25.0	3787.3
00234	9	4	3	3	cl919or	9	4	3	3	1551	2164133	1551	64	64	1	1	-68.4	0	1	3	4	4	4	10	5	500.00	5000.0	1000.0	-0.05	-0.15	-25.0	-25.0	3167.8
00235	9	4	3	3	cl919or	9	4	3	3	1644	2164033	1644	64	64	1	1	10.2	0	1	2	5	4	4	5	10	-250.00	5000.0	-5000.0	-0.05	0.25	-25.0	-20.0	3787.3
00236	9	4	3	3	cl919or	9	4	3	3	1644	2164133	1644	64	64	1	1	93.5	0	1	2	5	4	4	10	5	-250.00	5000.0	-5000.0	-0.05	0.25	-25.0	-20.0	3787.3
00237	9	4	3	3	cl919or	9	4	3	3	1713	2164133	1713	64	64	1	1	-68.4	0	1	3	4	4	4	10	5	500.00	5000.0	1000.0	-0.05	-0.25	-25.0	-25.0	3167.8
00238	9	4	3	3	cl919or	9	4	3	3	1738	2164033	1738	64	64	1	1	81.0	1	1	3	3	3	4	5	10	1000.00	5000.0	3000.0	-0.05	-0.25	-25.0	-25.0	2831.6
00239	9	4	3	3	cl919or	9	4	3	3	1806	2164033	1806	64	64	1	1	73.3	0	1	2	5	4	4	5	10	-250.00	5000.0	-5000.0	-0.05	0.35	-25.0	-20.0	3808.7
00240	9	4	3	3	cl919or	9	4	3	3	2095	2164033	2095	64	64	1	1	68.4	0	1	4	3	4	4	5	10	-500.00	1000.0	5000.0	-0.15	-0.05	-25.0	-25.0	3736.2
00241	9	4	3	3	cl919or	9	4	3	3	3523	2164133	3523	64	64	1	1	-54.3	0	1	4	4	4	4	10	5	250.00	5000.0	3000.0	-0.15	-0.15	-25.0	-25.0	3485.3
00242	9	4	3	3	cl919or	9	4	3	3	5370	2164033	5370	64	64	1	1	-22.0	0	1	4	6	4	6	5	10	-250.00	5000.0	-5000.0	-0.05	0.15	-25.0	-20.0	6877.4
00270	9	4	4	4	cl919wz	9	4	4	4	1473	2165144	1473	65	65	1	1	-27.8	0	1	2	5	4	4	10	5	-250.00	5000.0	-5000.0	-0.05	0.15	-25.0	-25.0	3749.3
00271	9	4	4	4	cl919wz	9	4	4	4	1509	2165144	1509	65	65	1	1	-27.8	0	1	2	5	3	4	10	5	-250.00	5000.0	-3000.0	-0.05	0.15	-25.0	-20.0	3749.3
00272	9	4	4	4	cl919wz	9	4	4	4	1644	2165144	1644	65	65	1	1	-27.8	0	1	2	5	4	4	10	5	-250.00	5000.0	-5000.0	-0.05	0.25	-25.0	-20.0	3749.3
00273	9	4	4	4	cl919wz	9	4	4	4	1738	2165044	1738	65	65	1	1	81.0	1	1	3	3	3	4	5	10	1000.00	5000.0	3000.0	-0.05	-0.25	-25.0	-25.0	2831.6
00274	9	4	4	4	cl919wz	9	4	4	4	1740	2165144	1740	65	65	1	1	-1.1	0	1	3	4	4	4	10	5	500.00	5000.0	3000.0	-0.05	-0.25	-25.0	-25.0	3235.1
00275	9	4	4	4	cl919wz	9	4	4	4	1806	2165044	1806	65	65	1	1	-51.3	1	1	2	5	4	4	5	10	-250.00	5000.0	-5000.0	-0.05	0.35	-25.0	-20.0	3767.5
00276	9	4	4	4	cl919wz	9	4	4	4	1806	2165144	1806	65	65	1	1	32.1	0	1	2	5	4	4	10	5	-250.00	5000.0	-5000.0	-0.05	0.35	-25.0	-20.0	3767.5
00277	9	4	4	4	cl919wz	9	4	4	4	2095	2165044	2095	65	65	1	1	68.4	0	1	4	3	4	4	5	10	-500.00	1000.0	5000.0	-0.15	-0.05	-25.0	-25.0	3736.2
00278	9	4	4	4	cl919wz	9	4	4	4	3246	2165044	3246	65	65	1	1	51.9	0	1	3	5	4	5	5	10	-250.00	5000.0	-5000.0	-0.15	0.05	-25.0	-30.0	3914.6
00279	9	4	4	4	cl919wz	9	4	4	4	3246	2165144	3246	65	65	1	1	-31.4	0	1	3	5	4	4	10	5	-250.00	5000.0	-5000.0	-0.15	0.05	-25.0	-30.0	3831.2
00280	9	4	4	4	cl919wz	9	4	4	4	3255	2165044	3255	65	65	1	1	-9.6	0	1	3	5	4	5	5	10	-250.00	5000.0	-5000.0	-0.15	0.05	-25.0	-25.0	3872.9
00281	9	4	4	4	cl919wz	9	4	4	4	3255	2165144	3255	65	65	1	1	-93.0	1	1	3	5	4	4	10	5	-250.00	5000.0	-5000.0	-0.15	0.05	-25.0	-25.0	3789.6
00282	9	4	4	4	cl919wz	9	4	4	4	3264	2165044	3264	65	65	1	1	-69.5	0	1	3	5	4	5	5	10	-250.00	5000.0	-5000.0	-0.15	0.05	-25.0	-20.0	3831.2
00283	9	4	4	4	cl919wz	9	4	4	4	3523	2165144	3523	65	65	1	1	-54.3	0	1	4	4	4	4	10	5	250.00	5000.0	3000.0	-0.15	-0.15	-25.0	-25.0	3485.3
00284	9	4	4	4	cl919wz	9	4	4	4	5361	2165144	5361	65	65	1	1	-27.8	0	1	4	6	5	5	10	5	-250.00	5000.0	-5000.0	-0.05	0.15	-25.0	-25.0	7549.3
00285	9	4	4	4	cl919wz	9	4	4	4	5532	2165144	5532	65	65	1	1	-27.8	0	1	4	6	5	5	10	5	-250.00	5000.0	-5000.0	-0.05	0.25	-25.0	-20.0	7549.3
00286	9	4	4	4	cl919wz	9	4	4	4	5694	2165044	5694	65	65	1	1	-51.3	0	1	4	6	5	5	5	10	-250.00	5000.0	-5000.0	-0.05	0.35	-25.0	-20.0	7567.5
00287	9	4	4	4	cl919wz	9	4	4	4	5694	2165144	5694	65	65	1	1	32.0	0	1	4	6	5	5	10	5	-250.00	5000.0	-5000.0	-0.05	0.35	-25.0	-20.0	7567.5
00699	19	4	2	2	cl919cf	19	4	2	2	349	2162022	349	62	62	1	1	50.6	0	1	5	5	5	5	5	10	-500.00	1000.0	-5000.0	-0.05	0.25	-25.0	-20.0	3911.1
00700	19	4	2	2	cl919cf	19	4	2	2	503	2162022	503	62	62	1	1	67.4	0	1	5	5	5	5	5	10	-750.00	1000.0	-5000.0	-0.05	0.35	-25.0	-25.0	4011.1
00701	19	4	2	2	cl919cf	19	4	2	2	511	2162022	511	62	62	1	1	76.6	0	1	5	5	5	5	5	10	-500.00	1000.0	-5000.0	-0.05	0.35	-25.0	-20.0	3978.7
00702	19	4	2	2	cl919cf	19	4	2	2	522	2162022	522	62	62	1	1	47.8	0	1	5	5	5	5	5	10	-1000.00	1000.0	-3000.0	-0.05	0.35	-25.0	-30.0	4449.9
00703	19	4	2	2	cl919cf	19	4	2	2	827	2162022	827	62	62	1	1	71.2	0	1	4	5	5	5	5	10	-750.00	3000.0	-5000.0	-0.05	0.15	-25.0	-25.0	3993.5
00704	19	4	2	2	cl919cf	19	4	2	2	965	2162022	965	62	62	1	1	-59.2	0	1	5	4	5	4	5	10	750.00	3000.0	5000.0	-0.05	-0.15	-25.0	-20.0	3142.0
00705	19	4	2	2	cl919cf	19	4	2	2	965	2162122	965	62	62	1	1	82.8	0	1	5	4	5	4	10	5	750.00	3000.0	5000.0	-0.05	-0.15	-25.0	-20.0	3283.9
00706	19	4	2	2	cl919cf	19	4	2	2	981	2162022	981	62	62	1	1	-6.3	0	1	4	5	5	5	5	10	-1000.00	3000.0	-5000.0	-0.05	0.25	-25.0	-30.0	4031.5
00707	19	4	2	2	cl919cf	19	4	2	2	981	2162122	981	62	62	1	1	74.7	0	1	4	5	5	5	10	5	-1000.00	3000.0	-5000.0	-0.05	0.25	-25.0	-30.0	4031.5
00708	19	4	2	2	cl919cf	19	4	2	2	989	2162022	989	62	62	1	1	-13.6	0	1	4	5	5	5	5	10	-750.00	3000.0	-5000.0	-0.05	0.25	-25.0	-25.0	3971.9
00709	19	4	2	2	cl919cf	19	4	2	2	990	2162122	990	62	62	1	1	-50.7	0	1	4	5	5	5	10	5	-1000.00	3000.0	-5000.0	-0.05	0.25	-25.0	-25.0	3994.6
00710	19	4	2	2	cl919cf	19	4	2	2	1151	2162022	1151	62	62	1	1	62.7	0	1	4	5	5	5	5	10	-750.00	3000.0	-5000.0	-0.05	0.35	-25.0	-25.0	4006.5
00711	19	4	2	2	cl919cf	19	4	2	2	1152	2162122	1152	62	62	1	1	-27.1	0	1	4	5	5	5	10	5	-1000.00	3000.0	-5000.0	-0.05	0.35	-25.0	-25.0	4041.7
00712	19	4	2	2	cl919cf	19	4	2	2	1159	2162122	1159	62	62	1	1	96.7	0	1	4	5	5	5	10	5	-500.00	3000.0	-5000.0	-0.05	0.35	-25.0	-20.0	3915.4
00713	19	4	2	2	cl919cf	19	4	2	2	1160	2162022	1160	62	62	1	1	26.5	0	1	4	5	5	5	5	10	-750.00	3000.0	-5000.0	-0.05	0.35	-25.0	-20.0	4006.5
00714	19	4	2	2	cl919cf	19	4	2	2	1160	2162122	1160	62	62	1	1	-30.1	0	1	4	5	5	5	10	5	-750.00	3000.0	-5000.0	-0.05	0.35	-25.0	-20.0	3949.9
00715	19	4	2	2	cl919cf	19	4	2	2	1637	2162022	1637	62	62	1	1	62.7	0	1	4	5	5	5	5	10	-750.00	5000.0	-5000.0	-0.05	0.25	-25.0	-25.0	4006.5
00716	19	4	2	2	cl919cf	19	4	2	2	1638	2162022	1638	62	62	1	1	96.2	0	1	4	5	4	5	5	10	-1000.00	5000.0	-5000.0	-0.05	0.25	-25.0	-25.0	4141.4
00717	19	4	2	2	cl919cf	19	4	2	2	1638	2162122	1638	62	62	1	1	32.0	0	1	4	5	4	5	10	5	-1000.00	5000.0	-5000.0	-0.05	0.25	-25.0	-25.0	4077.3
00718	19	4	2	2	cl919cf	19	4	2	2	1799	2162022	1799	62	62	1	1	62.7	0	1	4	5	5	5	5	10	-750.00	5000.0	-5000.0	-0.05	0.35	-25.0	-25.0	4006.5
00719	19	4	2	2	cl919cf	19	4	2	2	1800	2162122	1800	62	62	1	1	-27.1	0	1	4	5	4	5	10	5	-1000.00	5000.0	-5000.0	-0.05	0.35	-25.0	-25.0	4041.7
00720	19	4	2	2	cl919cf	19	4	2	2	2216	2162122	2216	62	62	1	1	-19.3	0	1	5	4	5	5	10	5	750.00	1000.0	3000.0	-0.15	-0.15	-25.0	-30.0	3217.9
00721	19	4	2	2	cl919cf	19	4	2	2	2225	2162122	2225	62	62	1	1	61.6	1	1	5	4	5	5	10	5	750.00	1000.0	3000.0	-0.15	-0.15	-25.0	-25.0	3351.2
00722	19	4	2	2	cl919cf	19	4	2	2	2285	2162022	2285	62	62	1	1	88.4	0	1	5	5	5	5	5	10	-750.00	1000.0	-5000.0	-0.15	0.25	-25.0	-25.0	4073.8
00723	19	4	2	2	cl919cf	19	4	2	2	2293	2162022	2293	62	62	1	1	55.1	0	1	5	5	5	5	5	10	-500.00	1000.0	-5000.0	-0.15	0.25	-25.0	-20.0	3957.1
00724	19	4	2	2	cl919cf	19	4	2	2	2293	2162122	2293	62	62	1	1	35.6	0	1	5	5	5	5	10	5	-500.00	1000.0	-5000.0	-0.15	0.25	-25.0	-20.0	3886.1
00725	19	4	2	2	cl919cf	19	4	2	2	2387	2162022	2387	62	62	1	1	-36.0	0	1	5	4	5	5	5	10	750.00	1000.0	3000.0	-0.15	-0. 5	-25.0	-25.0	3201.2
00726	19	4	2	2	cl919cf	19	4	2	2	2447	2162022	2447	62	62	1	1	56.6	0	1	5	5	5	5	5	10	-750.00	1000.0	-5000.0	-0.15	0.35	-25.0	-25.0	4011.1

SEQ NUM	CLS	TBL	ROW	COL																													
00727	19	4	2	2	cl919cf	19	4	2	2	2448	2162022	2448	62	62	1	1	51.2	0	1	5	5	5	5	5	10	-1000.00	1000.0	-5000.0	-0.15	0.35	-25.0	-25.0	4222.5
00728	19	4	2	2	cl919cf	19	4	2	2	2448	2162122	2448	62	62	1	1	71.7	0	1	5	5	5	5	10	5	-1000.00	1000.0	-5000.0	-0.15	0.35	-25.0	-25.0	4140.5
00729	19	4	2	2	cl919cf	19	4	2	2	2549	2162122	2549	62	62	1	1	47.4	0	1	5	4	5	5	10	5	750.00	1000.0	3000.0	-0.15	-0.35	-25.0	-25.0	3201.2
00730	19	4	2	2	cl919cf	19	4	2	2	2690	2162022	2690	62	62	1	1	96.7	0	1	5	5	5	5	5	10	-750.00	3000.0	1000.0	-0.15	-0.05	-25.0	-25.0	4081.2
00731	19	4	2	2	cl919cf	19	4	2	2	2762	2162122	2762	62	62	1	1	41.5	0	1	5	5	5	5	10	5	-750.00	3000.0	-5000.0	-0.15	0.15	-25.0	-30.0	3990.4
00732	19	4	2	2	cl919cf	19	4	2	2	2771	2162122	2771	62	62	1	1	60.1	0	1	5	5	5	5	10	5	-750.00	3000.0	-5000.0	-0.15	0.15	-25.0	-25.0	4081.2
00733	19	4	2	2	cl919cf	19	4	2	2	2772	2162122	2772	62	62	1	1	-9.1	0	1	5	5	5	5	10	5	-1000.00	3000.0	-5000.0	-0.15	0.15	-25.0	-25.0	4164.6
00734	19	4	2	2	cl919cf	19	4	2	2	2861	2162022	2861	62	62	1	1	96.7	0	1	5	5	5	5	5	10	-750.00	3000.0	1000.0	-0.15	-0.15	-25.0	-20.0	4081.2
00735	19	4	2	2	cl919cf	19	4	2	2	2891	2162122	2891	62	62	1	1	-7.9	0	1	5	4	5	5	10	5	750.00	3000.0	5000.0	-0.15	-0.15	-25.0	-30.0	3156.7
00736	19	4	2	2	cl919cf	19	4	2	2	2900	2162022	2900	62	62	1	1	46.9	0	1	5	4	5	4	5	10	750.00	3000.0	5000.0	-0.15	-0.15	-25.0	-25.0	3169.8
00737	19	4	2	2	cl919cf	19	4	2	2	2933	2162122	2933	62	62	1	1	13.0	0	1	5	5	5	5	10	5	-750.00	3000.0	-5000.0	-0.15	0.25	-25.0	-25.0	4023.8
00738	19	4	2	2	cl919cf	19	4	2	2	2934	2162122	2934	62	62	1	1	-83.8	1	1	5	5	5	5	10	5	-1000.00	3000.0	-5000.0	-0.15	0.25	-25.0	-25.0	4139.2
00739	19	4	2	2	cl919cf	19	4	2	2	2940	2162122	2940	62	62	1	1	75.7	0	1	5	5	5	5	10	5	-250.00	3000.0	-5000.0	-0.15	0.25	-25.0	-20.0	3811.1
00740	19	4	2	2	cl919cf	19	4	2	2	2941	2162022	2941	62	62	1	1	85.6	0	1	5	5	5	5	5	10	-500.00	3000.0	-5000.0	-0.15	0.25	-25.0	-20.0	3936.1
00741	19	4	2	2	cl919cf	19	4	2	2	2941	2162122	2941	62	62	1	1	35.6	0	1	5	5	5	5	10	5	-500.00	3000.0	-5000.0	-0.15	0.25	-25.0	-20.0	3886.1
00742	19	4	2	2	cl919cf	19	4	2	2	2942	2162022	2942	62	62	1	1	11.2	0	1	5	5	5	5	5	10	-750.00	3000.0	-5000.0	-0.15	0.25	-25.0	-20.0	4059.8
00743	19	4	2	2	cl919cf	19	4	2	2	2942	2162122	2942	62	62	1	1	-66.5	0	1	5	5	5	5	10	5	-750.00	3000.0	-5000.0	-0.15	0.25	-25.0	-20.0	3982.1
00744	19	4	2	2	cl919cf	19	4	2	2	2943	2162022	2943	62	62	1	1	-23.6	0	1	5	5	5	5	5	10	-1000.00	3000.0	-5000.0	-0.15	0.25	-25.0	-20.0	4230.0
00745	19	4	2	2	cl919cf	19	4	2	2	3023	2162022	3023	62	62	1	1	96.7	0	1	5	5	5	5	5	10	-750.00	3000.0	1000.0	-0.15	-0.25	-25.0	-20.0	4081.2
00746	19	4	2	2	cl919cf	19	4	2	2	3071	2162022	3071	62	62	1	1	-33.5	0	1	5	4	5	4	5	10	750.00	3000.0	5000.0	-0.15	-0.25	-25.0	-20.0	3317.9
00747	19	4	2	2	cl919cf	19	4	2	2	3071	2162122	3071	62	62	1	1	41.5	0	1	5	4	5	5	10	5	750.00	3000.0	5000.0	-0.15	-0.25	-25.0	-20.0	3392.9
00748	19	4	2	2	cl919cf	19	4	2	2	3095	2162022	3095	62	62	1	1	65.3	0	1	5	5	5	5	5	10	-750.00	3000.0	-5000.0	-0.15	0.35	-25.0	-25.0	4076.1
00749	19	4	2	2	cl919cf	19	4	2	2	3095	2162122	3095	62	62	1	1	17.4	0	1	5	5	5	5	10	5	-750.00	3000.0	-5000.0	-0.15	0.35	-25.0	-25.0	3990.4
00750	19	4	2	2	cl919cf	19	4	2	2	3103	2162122	3103	62	62	1	1	43.4	0	1	5	5	5	5	10	5	-500.00	3000.0	-5000.0	-0.15	0.35	-25.0	-20.0	3945.5
00751	19	4	2	2	cl919cf	19	4	2	2	3104	2162022	3104	62	62	1	1	-64.0	0	1	5	5	5	5	5	10	-750.00	3000.0	-5000.0	-0.15	0.35	-25.0	-20.0	4015.5
00752	19	4	2	2	cl919cf	19	4	2	2	3185	2162022	3185	62	62	1	1	96.7	0	1	5	5	5	5	5	10	-750.00	3000.0	1000.0	-0.15	-0.35	-25.0	-20.0	4081.2
00753	19	4	2	2	cl919cf	19	4	2	2	3233	2162022	3233	62	62	1	1	-17.3	0	1	5	4	5	4	5	10	750.00	3000.0	5000.0	-0.15	-0.35	-25.0	-20.0	3303.1
00754	19	4	2	2	cl919cf	19	4	2	2	3233	2162122	3233	62	62	1	1	39.0	0	1	5	4	5	5	10	5	750.00	3000.0	5000.0	-0.15	-0.35	-25.0	-20.0	3359.5
00755	19	4	2	2	cl919cf	19	4	2	2	3284	2162122	3284	62	62	1	1	27.3	0	1	4	5	5	5	10	5	-750.00	5000.0	-3000.0	-0.15	0.05	-25.0	-25.0	4182.8
00756	19	4	2	2	cl919cf	19	4	2	2	3409	2162022	3409	62	62	1	1	60.5	0	1	4	5	5	5	5	10	-500.00	5000.0	-5000.0	-0.15	0.15	-25.0	-30.0	4049.4
00757	19	4	2	2	cl919cf	19	4	2	2	3410	2162122	3410	62	62	1	1	75.7	0	1	4	5	5	5	10	5	-750.00	5000.0	-5000.0	-0.15	0.15	-25.0	-30.0	4102.8
00758	19	4	2	2	cl919cf	19	4	2	2	3419	2162022	3419	62	62	1	1	55.6	0	1	4	5	5	5	5	10	-750.00	5000.0	-5000.0	-0.15	0.15	-25.0	-25.0	4102.8
00759	19	4	2	2	cl919cf	19	4	2	2	3419	2162122	3419	62	62	1	1	84.3	0	1	4	5	5	5	10	5	-750.00	5000.0	-5000.0	-0.15	0.15	-25.0	-25.0	4102.8
00760	19	4	2	2	cl919cf	19	4	2	2	3420	2162022	3420	62	62	1	1	-81.0	0	1	4	5	5	5	5	10	-1000.00	5000.0	-5000.0	-0.15	0.15	-25.0	-25.0	4159.5
00761	19	4	2	2	cl919cf	19	4	2	2	3429	2162122	3429	62	62	1	1	93.3	0	1	4	5	5	5	10	5	-1000.00	5000.0	-5000.0	-0.15	0.15	-25.0	-20.0	4136.3
00762	19	4	2	2	cl919cf	19	4	2	2	3438	2162022	3438	62	62	1	1	75.5	0	1	4	5	5	5	5	10	-1000.00	5000.0	-3000.0	-0.15	0.15	-25.0	-30.0	4227.6
00763	19	4	2	2	cl919cf	19	4	2	2	3445	2162022	3445	62	62	1	1	73.5	0	1	4	5	5	5	5	10	-500.00	5000.0	-3000.0	-0.15	0.15	-25.0	-25.0	4062.3
00764	19	4	2	2	cl919cf	19	4	2	2	3447	2162022	3447	62	62	1	1	32.6	0	1	4	5	5	5	5	10	-1000.00	5000.0	-3000.0	-0.15	0.15	-25.0	-25.0	4226.3
00765	19	4	2	2	cl919cf	19	4	2	2	3455	2162122	3455	62	62	1	1	98.6	0	1	4	5	5	5	10	5	-750.00	5000.0	-3000.0	-0.15	0.15	-25.0	-20.0	4102.8
00766	19	4	2	2	cl919cf	19	4	2	2	3456	2162122	3456	62	62	1	1	1.3	0	1	4	5	5	5	10	5	-1000.00	5000.0	-3000.0	-0.15	0.15	-25.0	-20.0	4182.8
00767	19	4	2	2	cl919cf	19	4	2	2	3519	2162022	3519	62	62	1	1	75.5	0	1	5	5	5	5	5	10	-1000.00	5000.0	3000.0	-0.15	-0.15	-25.0	-30.0	4227.6
00768	19	4	2	2	cl919cf	19	4	2	2	3536	2162122	3536	62	62	1	1	-75.5	0	1	4	5	5	5	10	5	-750.00	5000.0	3000.0	-0.15	-0.15	-25.0	-20.0	3831.2
00769	19	4	2	2	cl919cf	19	4	2	2	3545	2162122	3545	62	62	1	1	-39.1	0	1	4	5	5	5	10	5	-750.00	5000.0	5000.0	-0.15	-0.15	-25.0	-30.0	3960.8
00770	19	4	2	2	cl919cf	19	4	2	2	3573	2162022	3573	62	62	1	1	-11.0	0	1	4	5	5	5	5	10	-1000.00	5000.0	-5000.0	-0.15	0.25	-25.0	-30.0	4182.8
00771	19	4	2	2	cl919cf	19	4	2	2	3573	2162122	3573	62	62	1	1	61.6	0	1	4	5	5	5	10	5	-1000.00	5000.0	-5000.0	-0.15	0.25	-25.0	-30.0	4182.8
00772	19	4	2	2	cl919cf	19	4	2	2	3580	2162122	3580	62	62	1	1	73.5	0	1	4	5	5	5	5	10	-500.00	5000.0	-5000.0	-0.15	0.25	-25.0	-25.0	4062.3
00773	19	4	2	2	cl919cf	19	4	2	2	3581	2162022	3581	62	62	1	1	-58.2	0	1	4	5	5	5	5	10	-750.00	5000.0	-5000.0	-0.15	0.25	-25.0	-25.0	4052.5
00774	19	4	2	2	cl919cf	19	4	2	2	3581	2162122	3581	62	62	1	1	22.5	0	1	4	5	5	5	10	5	-750.00	5000.0	-5000.0	-0.15	0.25	-25.0	-25.0	4048.1
00775	19	4	2	2	cl919cf	19	4	2	2	3582	2162022	3582	62	62	1	1	-70.5	0	1	4	5	5	5	5	10	-1000.00	5000.0	-5000.0	-0.15	0.25	-25.0	-25.0	4164.9
00776	19	4	2	2	cl919cf	19	4	2	2	3588	2162022	3588	62	62	1	1	8.7	0	1	4	5	5	5	5	10	-250.00	5000.0	-5000.0	-0.15	0.25	-25.0	-20.0	3811.1
00777	19	4	2	2	cl919cf	19	4	2	2	3588	2162122	3588	62	62	1	1	86.6	0	1	4	5	5	5	10	5	-250.00	5000.0	-5000.0	-0.15	0.25	-25.0	-20.0	3811.1
00778	19	4	2	2	cl919cf	19	4	2	2	3589	2162022	3589	62	62	1	1	89.5	0	1	4	5	5	5	5	10	-500.00	5000.0	-5000.0	-0.15	0.25	-25.0	-20.0	3992.8
00779	19	4	2	2	cl919cf	19	4	2	2	3589	2162122	3589	62	62	1	1	8.2	0	1	4	5	5	5	10	5	-500.00	5000.0	-5000.0	-0.15	0.25	-25.0	-20.0	3936.5
00780	19	4	2	2	cl919cf	19	4	2	2	3591	2162022	3591	62	62	1	1	-95.3	1	1	4	5	5	5	5	10	-1000.00	5000.0	-5000.0	-0.15	0.25	-25.0	-20.0	4158.3
00781	19	4	2	2	cl919cf	19	4	2	2	3609	2162022	3609	62	62	1	1	-11.0	0	1	4	5	5	5	5	10	-1000.00	5000.0	-3000.0	-0.15	0.25	-25.0	-25.0	4182.8
00782	19	4	2	2	cl919cf	19	4	2	2	3609	2162122	3609	62	62	1	1	30.7	0	1	4	5	5	5	10	5	-1000.00	5000.0	-3000.0	-0.15	0.25	-25.0	-25.0	4182.8
00783	19	4	2	2	cl919cf	19	4	2	2	3616	2162022	3616	62	62	1	1	65.7	0	1	4	5	5	5	5	10	-500.00	5000.0	-3000.0	-0.15	0.25	-25.0	-20.0	4049.4
00784	19	4	2	2	cl919cf	19	4	2	2	3617	2162122	3617	62	62	1	1	82.6	0	1	4	5	5	5	10	5	-750.00	5000.0	-3000.0	-0.15	0.25	-25.0	-20.0	4109.7
00785	19	4	2	2	cl919cf	19	4	2	2	3618	2162122	3618	62	62	1	1	-75.9	0	1	4	5	5	5	10	5	-1000.00	5000.0	-3000.0	-0.15	0.25	-25.0	-20.0	4159.5
00786	19	4	2	2	cl919cf	19	4	2	2	3708	2162022	3708	62	62	1	1	-11.0	0	1	5	5	5	5	5	10	-1000.00	5000.0	5000.0	-0.15	-0.25	-25.0	-30.0	4182.8
00787	19	4	2	2	cl919cf	19	4	2	2	3708	2162122	3708	62	62	1	1	30.7	0	1	5	5	5	5	10	5	-1000.00	5000.0	5000.0	-0.15	-0.25	-25.0	-30.0	4182.8
00788	19	4	2	2	cl919cf	19	4	2	2	3742	2162022	3742	62	62	1	1	73.5	0	1	4	5	5	5	5	10	-500.00	5000.0	-5000.0	-0.15	0.35	-25.0	-25.0	4062.3
00789	19	4	2	2	cl919cf	19	4	2	2	3743	2162022	3743	62	62	1	1	33.9	0	1	4	5	5	5	5	10	-750.00	5000.0	-5000.0	-0.15	0.35	-25.0	-25.0	4102.6
00790	19	4	2	2	cl919cf	19	4	2	2	3744	2162122	3744	62	62	1	1	-57.4	0	1	4	5	5	5	10	5	-1000.00	5000.0	-5000.0	-0.15	0.35	-25.0	-25.0	4136.3
00791	19	4	2	2	cl919cf	19	4	2	2	3750	2162022	3750	62	62	1	1	8.7	0	1	4	5	5	5	5	10	-250.00	5000.0	-5000.0	-0.15	0.35	-25.0	-20.0	3811.1
00792	19	4	2	2	cl919cf	19	4	2	2	3750	2162122	3750	62	62	1	1	63.2	0	1	4	5	5	5	10	5	-250.00	5000.0	-5000.0	-0.15	0.35	-25.0	-20.0	3811.1

SEQ NUM	CLS	TBL	ROW	COL																												
00793	19	4	2	2	cl919cf	19	4	2	2	3751	2162022	3751	62	62	1	1	-47.5	0	1	4	5	5	5	10	-500.00	5000.0	-5000.0	-0.15	0.35	-25.0	-20.0	3950.4
00794	19	4	2	2	cl919cf	19	4	2	2	3751	2162122	3751	62	62	1	1	72.1	0	1	4	5	5	10	5	-500.00	5000.0	-5000.0	-0.15	0.35	-25.0	-20.0	3950.4
00795	19	4	2	2	cl919cf	19	4	2	2	3752	2162022	3752	62	62	1	1	-52.0	0	1	4	5	5	5	10	-750.00	5000.0	-5000.0	-0.15	0.35	-25.0	-20.0	4058.8
00796	19	4	2	2	cl919cf	19	4	2	2	3752	2162122	3752	62	62	1	1	-17.4	0	1	4	5	5	10	5	-750.00	5000.0	-5000.0	-0.15	0.35	-25.0	-20.0	4050.3
00797	19	4	2	2	cl919cf	19	4	2	2	3753	2162022	3753	62	62	1	1	-44.5	0	1	4	5	5	5	10	-1000.00	5000.0	-5000.0	-0.15	0.35	-25.0	-20.0	4232.6
00798	19	4	2	2	cl919cf	19	4	2	2	3771	2162022	3771	62	62	1	1	75.5	0	1	4	5	5	5	10	-1000.00	5000.0	-3000.0	-0.15	0.35	-25.0	-25.0	4227.6
00799	19	4	2	2	cl919cf	19	4	2	2	3778	2162022	3778	62	62	1	1	65.9	0	1	4	5	5	5	10	-500.00	5000.0	-3000.0	-0.15	0.35	-25.0	-20.0	4054.7
00800	19	4	2	2	cl919cf	19	4	2	2	3779	2162122	3779	62	62	1	1	69.4	0	1	4	5	5	10	5	-750.00	5000.0	-3000.0	-0.15	0.35	-25.0	-20.0	4096.5
00801	19	4	2	2	cl919cf	19	4	2	2	3780	2162022	3780	62	62	1	1	-7.8	0	1	4	5	5	5	10	-1000.00	5000.0	-3000.0	-0.15	0.35	-25.0	-20.0	4227.6
00802	19	4	2	2	cl919cf	19	4	2	2	3780	2162122	3780	62	62	1	1	-99.1	1	1	4	5	5	10	5	-1000.00	5000.0	-3000.0	-0.15	0.35	-25.0	-20.0	4136.3
00803	19	4	2	2	cl919cf	19	4	2	2	3852	2162022	3852	62	62	1	1	-75.9	0	1	5	5	5	5	10	-1000.00	5000.0	3000.0	-0.15	-0.35	-25.0	-25.0	4159.5
00804	19	4	2	2	cl919cf	19	4	2	2	3852	2162122	3852	62	62	1	1	7.4	0	1	5	5	5	10	5	-1000.00	5000.0	3000.0	-0.15	-0.35	-25.0	-25.0	4159.5
00805	19	4	2	2	cl919cf	19	4	2	2	4229	2162022	4229	62	62	1	1	67.4	0	1	5	6	5	5	10	-750.00	1000.0	-5000.0	-0.05	0.25	-25.0	-25.0	7811.1
00806	19	4	2	2	cl919cf	19	4	2	2	4237	2162022	4237	62	62	1	1	50.6	0	1	5	6	5	5	10	-500.00	1000.0	-5000.0	-0.05	0.25	-25.0	-20.0	7711.1
00807	19	4	2	2	cl919cf	19	4	2	2	4399	2162022	4399	62	62	1	1	76.6	0	1	5	6	5	5	10	-500.00	1000.0	-5000.0	-0.05	0.35	-25.0	-20.0	7778.7
00808	19	4	2	2	cl919cf	19	4	2	2	4410	2162022	4410	62	62	1	1	47.8	0	1	5	5	5	5	10	-1000.00	1000.0	-3000.0	-0.05	0.35	-25.0	-30.0	8249.9
00809	19	4	2	2	cl919cf	19	4	2	2	4853	2162022	4853	62	62	1	1	-59.2	0	1	5	5	5	5	10	750.00	3000.0	5000.0	-0.05	-0.15	-25.0	-20.0	6942.0
00810	19	4	2	2	cl919cf	19	4	2	2	4853	2162122	4853	62	62	1	1	82.8	0	1	5	5	5	10	5	750.00	3000.0	5000.0	-0.05	-0.15	-25.0	-20.0	7083.9
00811	19	4	2	2	cl919cf	19	4	2	2	4869	2162022	4869	62	62	1	1	-6.3	0	1	5	6	5	5	10	-1000.00	3000.0	-5000.0	-0.05	0.25	-25.0	-30.0	7831.5
00812	19	4	2	2	cl919cf	19	4	2	2	4869	2162122	4869	62	62	1	1	74.7	0	1	5	6	5	10	5	-1000.00	3000.0	-5000.0	-0.05	0.25	-25.0	-30.0	7831.5
00813	19	4	2	2	cl919cf	19	4	2	2	4877	2162022	4877	62	62	1	1	-14.3	0	1	5	6	5	5	10	-750.00	3000.0	-5000.0	-0.05	0.25	-25.0	-25.0	7771.1
00814	19	4	2	2	cl919cf	19	4	2	2	4878	2162122	4878	62	62	1	1	-50.7	0	1	5	6	5	10	5	-1000.00	3000.0	-5000.0	-0.05	0.25	-25.0	-25.0	7794.6
00815	19	4	2	2	cl919cf	19	4	2	2	5039	2162022	5039	62	62	1	1	39.5	0	1	5	6	5	5	10	-750.00	3000.0	-5000.0	-0.05	0.35	-25.0	-25.0	7783.3
00816	19	4	2	2	cl919cf	19	4	2	2	5040	2162122	5040	62	62	1	1	-27.1	0	1	5	6	5	10	5	-1000.00	3000.0	-5000.0	-0.05	0.35	-25.0	-25.0	7841.7
00817	19	4	2	2	cl919cf	19	4	2	2	5047	2162122	5047	62	62	1	1	96.6	0	1	5	6	5	10	5	-500.00	3000.0	-5000.0	-0.05	0.35	-25.0	-20.0	7715.4
00818	19	4	2	2	cl919cf	19	4	2	2	5525	2162022	5525	62	62	1	1	62.7	0	1	5	6	5	5	10	-750.00	5000.0	-5000.0	-0.05	0.25	-25.0	-25.0	7806.5
00819	19	4	2	2	cl919cf	19	4	2	2	5687	2162022	5687	62	62	1	1	62.7	0	1	5	6	5	5	10	-750.00	5000.0	-5000.0	-0.05	0.35	-25.0	-25.0	7806.5
00820	19	4	2	2	cl919cf	19	4	2	2	5688	2162122	5688	62	62	1	1	-27.1	0	1	5	6	5	10	5	-1000.00	5000.0	-5000.0	-0.05	0.35	-25.0	-25.0	7841.7
00821	19	4	2	2	cl919cf	19	4	2	2	6113	2162122	6113	62	62	1	1	-76.6	0	1	5	5	5	10	5	750.00	1000.0	3000.0	-0.15	-0.15	-25.0	-25.0	7013.0
00822	19	4	2	2	cl919cf	19	4	2	2	6181	2162022	6181	62	62	1	1	55.0	0	1	5	6	5	5	10	-500.00	1000.0	-5000.0	-0.15	0.25	-25.0	-20.0	7757.1
00823	19	4	2	2	cl919cf	19	4	2	2	6181	2162122	6181	62	62	1	1	35.6	0	1	5	6	5	10	5	-500.00	1000.0	-5000.0	-0.15	0.25	-25.0	-20.0	7686.1
00824	19	4	2	2	cl919cf	19	4	2	2	6275	2162122	6275	62	62	1	1	39.9	0	1	5	5	5	10	5	750.00	1000.0	3000.0	-0.15	-0.25	-25.0	-25.0	6962.8
00825	19	4	2	2	cl919cf	19	4	2	2	6336	2162022	6336	62	62	1	1	51.2	0	1	5	6	5	5	10	-1000.00	1000.0	-5000.0	-0.15	0.35	-25.0	-25.0	8022.5
00826	19	4	2	2	cl919cf	19	4	2	2	6336	2162122	6336	62	62	1	1	71.7	0	1	5	6	5	10	5	-1000.00	1000.0	-5000.0	-0.15	0.35	-25.0	-25.0	7940.5
00827	19	4	2	2	cl919cf	19	4	2	2	6437	2162122	6437	62	62	1	1	-43.4	0	1	5	5	5	10	5	750.00	1000.0	3000.0	-0.15	-0.35	-25.0	-25.0	6921.2
00828	19	4	2	2	cl919cf	19	4	2	2	6578	2162022	6578	62	62	1	1	96.7	0	1	5	5	5	5	10	-750.00	3000.0	1000.0	-0.15	-0.05	-25.0	-25.0	7881.2
00829	19	4	2	2	cl919cf	19	4	2	2	6650	2162122	6650	62	62	1	1	41.4	0	1	5	6	5	10	5	-750.00	3000.0	-5000.0	-0.15	0.15	-25.0	-30.0	7790.4
00830	19	4	2	2	cl919cf	19	4	2	2	6659	2162122	6659	62	62	1	1	60.1	0	1	5	6	5	10	5	-750.00	3000.0	-5000.0	-0.15	0.15	-25.0	-25.0	7881.2
00831	19	4	2	2	cl919cf	19	4	2	2	6660	2162122	6660	62	62	1	1	-9.1	0	1	5	6	5	10	5	-1000.00	3000.0	-5000.0	-0.15	0.15	-25.0	-25.0	7964.6
00832	19	4	2	2	cl919cf	19	4	2	2	6749	2162022	6749	62	62	1	1	96.7	0	1	5	5	5	5	10	-750.00	3000.0	1000.0	-0.15	-0.15	-25.0	-20.0	7881.2
00833	19	4	2	2	cl919cf	19	4	2	2	6779	2162122	6779	62	62	1	1	-7.9	0	1	5	5	5	10	5	750.00	3000.0	5000.0	-0.15	-0.15	-25.0	-30.0	6956.7
00834	19	4	2	2	cl919cf	19	4	2	2	6788	2162022	6788	62	62	1	1	46.9	0	1	5	5	5	5	10	750.00	3000.0	5000.0	-0.15	-0.15	-25.0	-25.0	6969.8
00835	19	4	2	2	cl919cf	19	4	2	2	6821	2162022	6821	62	62	1	1	1.7	0	1	5	6	5	5	10	-750.00	3000.0	-5000.0	-0.15	0.25	-25.0	-25.0	7881.2
00836	19	4	2	2	cl919cf	19	4	2	2	6821	2162122	6821	62	62	1	1	70.4	0	1	5	6	5	10	5	-750.00	3000.0	-5000.0	-0.15	0.25	-25.0	-25.0	7881.2
00837	19	4	2	2	cl919cf	19	4	2	2	6822	2162122	6822	62	62	1	1	-83.8	1	1	5	6	5	10	5	-1000.00	3000.0	-5000.0	-0.15	0.25	-25.0	-25.0	7939.2
00838	19	4	2	2	cl919cf	19	4	2	2	6829	2162022	6829	62	62	1	1	85.6	0	1	5	6	5	5	10	-500.00	3000.0	-5000.0	-0.15	0.25	-25.0	-20.0	7736.1
00839	19	4	2	2	cl919cf	19	4	2	2	6829	2162122	6829	62	62	1	1	35.6	0	1	5	6	5	10	5	-500.00	3000.0	-5000.0	-0.15	0.25	-25.0	-20.0	7686.1
00840	19	4	2	2	cl919cf	19	4	2	2	6830	2162022	6830	62	62	1	1	11.2	0	1	5	6	5	5	10	-750.00	3000.0	-5000.0	-0.15	0.25	-25.0	-20.0	7859.8
00841	19	4	2	2	cl919cf	19	4	2	2	6830	2162122	6830	62	62	1	1	-66.5	0	1	5	6	5	10	5	-750.00	3000.0	-5000.0	-0.15	0.25	-25.0	-20.0	7782.1
00842	19	4	2	2	cl919cf	19	4	2	2	6831	2162022	6831	62	62	1	1	-23.6	0	1	5	6	5	5	10	-1000.00	3000.0	-5000.0	-0.15	0.25	-25.0	-20.0	8030.0
00843	19	4	2	2	cl919cf	19	4	2	2	6911	2162022	6911	62	62	1	1	96.7	0	1	5	5	5	5	10	-750.00	3000.0	1000.0	-0.15	-0.25	-25.0	-20.0	7881.2
00844	19	4	2	2	cl919cf	19	4	2	2	6959	2162022	6959	62	62	1	1	-33.5	0	1	5	5	5	5	10	750.00	3000.0	5000.0	-0.15	-0.25	-25.0	-20.0	7117.9
00845	19	4	2	2	cl919cf	19	4	2	2	6959	2162122	6959	62	62	1	1	41.5	0	1	5	5	5	10	5	750.00	3000.0	5000.0	-0.15	-0.25	-25.0	-20.0	7192.9
00846	19	4	2	2	cl919cf	19	4	2	2	6991	2162122	6991	62	62	1	1	43.4	0	1	5	6	5	10	5	-500.00	3000.0	-5000.0	-0.15	0.35	-25.0	-20.0	7745.5
00847	19	4	2	2	cl919cf	19	4	2	2	7073	2162022	7073	62	62	1	1	96.7	0	1	5	5	5	5	10	-750.00	3000.0	1000.0	-0.15	-0.35	-25.0	-20.0	7881.2
00848	19	4	2	2	cl919cf	19	4	2	2	7121	2162022	7121	62	62	1	1	-17.3	0	1	5	5	5	5	10	750.00	3000.0	5000.0	-0.15	-0.35	-25.0	-20.0	7103.1
00849	19	4	2	2	cl919cf	19	4	2	2	7121	2162122	7121	62	62	1	1	39.0	0	1	5	5	5	10	5	750.00	3000.0	5000.0	-0.15	-0.35	-25.0	-20.0	7159.5
00850	19	4	2	2	cl919cf	19	4	2	2	7172	2162122	7172	62	62	1	1	27.3	0	1	5	6	5	10	5	-750.00	5000.0	-3000.0	-0.15	0.05	-25.0	-25.0	7982.8
00851	19	4	2	2	cl919cf	19	4	2	2	7297	2162022	7297	62	62	1	1	60.5	0	1	5	6	5	5	10	-500.00	5000.0	-5000.0	-0.15	0.15	-25.0	-30.0	7849.4
00852	19	4	2	2	cl919cf	19	4	2	2	7298	2162122	7298	62	62	1	1	75.7	0	1	5	6	5	10	5	-750.00	5000.0	-5000.0	-0.15	0.15	-25.0	-30.0	7902.8
00853	19	4	2	2	cl919cf	19	4	2	2	7307	2162022	7307	62	62	1	1	55.6	0	1	5	6	5	5	10	-750.00	5000.0	-5000.0	-0.15	0.15	-25.0	-25.0	7902.8
00854	19	4	2	2	cl919cf	19	4	2	2	7307	2162122	7307	62	62	1	1	84.2	0	1	5	6	5	10	5	-750.00	5000.0	-5000.0	-0.15	0.15	-25.0	-25.0	7902.8
00855	19	4	2	2	cl919cf	19	4	2	2	7308	2162022	7308	62	62	1	1	-81.0	0	1	5	6	5	5	10	-1000.00	5000.0	-5000.0	-0.15	0.15	-25.0	-25.0	7959.5
00856	19	4	2	2	cl919cf	19	4	2	2	7326	2162022	7326	62	62	1	1	75.5	0	1	5	5	5	5	10	-1000.00	5000.0	-3000.0	-0.15	0.15	-25.0	-30.0	8027.6
00857	19	4	2	2	cl919cf	19	4	2	2	7333	2162022	7333	62	62	1	1	73.5	0	1	5	5	5	5	10	-500.00	5000.0	-3000.0	-0.15	0.15	-25.0	-25.0	7862.4
00858	19	4	2	2	cl919cf	19	4	2	2	7335	2162022	7335	62	62	1	1	32.6	0	1	5	5	5	5	10	-1000.00	5000.0	-3000.0	-0.15	0.15	-25.0	-25.0	8026.3

SEQ NUM	CLS TBL	ROW COL																											
00859	19	4 2 2	cl919cf	19	4 2 2	7343	2162122	7343	62	62	1	1	98.6	0	1	5	5	5	5	10	5	-750.00	5000.0	-3000.0	-0.15	0.15	-25.0	-20.0	7902.8
00860	19	4 2 2	cl919cf	19	4 2 2	7344	2162122	7344	62	62	1	1	1.3	0	1	5	6	5	5	10	5	-1000.00	5000.0	-3000.0	-0.15	0.15	-25.0	-20.0	7982.8
00861	19	4 2 2	cl919cf	19	4 2 2	7407	2162022	7407	62	62	1	1	75.5	0	1	5	5	5	5	5	10	-1000.00	5000.0	3000.0	-0.15	-0.15	-25.0	-30.0	8027.6
00862	19	4 2 2	cl919cf	19	4 2 2	7424	2162122	7424	62	62	1	1	-75.5	0	1	5	5	5	5	10	5	-750.00	5000.0	3000.0	-0.15	-0.15	-25.0	-20.0	7631.2
00863	19	4 2 2	cl919cf	19	4 2 2	7433	2162122	7433	62	62	1	1	-39.1	0	1	5	5	5	5	10	5	-750.00	5000.0	5000.0	-0.15	-0.15	-25.0	-30.0	7760.8
00864	19	4 2 2	cl919cf	19	4 2 2	7461	2162022	7461	62	62	1	1	-11.0	0	1	5	6	5	5	5	10	-1000.00	5000.0	-5000.0	-0.15	0.25	-25.0	-30.0	7982.8
00865	19	4 2 2	cl919cf	19	4 2 2	7461	2162122	7461	62	62	1	1	61.6	0	1	5	6	5	5	10	5	-1000.00	5000.0	-5000.0	-0.15	0.25	-25.0	-30.0	7982.8
00866	19	4 2 2	cl919cf	19	4 2 2	7468	2162022	7468	62	62	1	1	73.5	0	1	5	6	5	5	5	10	-500.00	5000.0	-5000.0	-0.15	0.25	-25.0	-25.0	7862.4
00867	19	4 2 2	cl919cf	19	4 2 2	7469	2162022	7469	62	62	1	1	-48.4	0	1	5	6	5	5	5	10	-750.00	5000.0	-5000.0	-0.15	0.25	-25.0	-25.0	7862.4
00868	19	4 2 2	cl919cf	19	4 2 2	7469	2162122	7469	62	62	1	1	36.7	0	1	5	6	5	5	10	5	-750.00	5000.0	-5000.0	-0.15	0.25	-25.0	-25.0	7862.4
00869	19	4 2 2	cl919cf	19	4 2 2	7470	2162022	7470	62	62	1	1	-70.5	0	1	5	6	5	5	5	10	-1000.00	5000.0	-5000.0	-0.15	0.25	-25.0	-25.0	7964.9
00870	19	4 2 2	cl919cf	19	4 2 2	7476	2162022	7476	62	62	1	1	70.4	0	1	5	6	5	5	5	10	-250.00	5000.0	-5000.0	-0.15	0.25	-25.0	-20.0	7672.9
00871	19	4 2 2	cl919cf	19	4 2 2	7477	2162022	7477	62	62	1	1	89.5	0	1	5	6	5	5	5	10	-500.00	5000.0	-5000.0	-0.15	0.25	-25.0	-20.0	7792.8
00872	19	4 2 2	cl919cf	19	4 2 2	7477	2162122	7477	62	62	1	1	8.2	0	1	5	6	5	5	10	5	-500.00	5000.0	-5000.0	-0.15	0.25	-25.0	-20.0	7736.5
00873	19	4 2 2	cl919cf	19	4 2 2	7479	2162022	7479	62	62	1	1	-95.3	1	1	5	6	5	5	5	10	-1000.00	5000.0	-5000.0	-0.15	0.25	-25.0	-20.0	7958.3
00874	19	4 2 2	cl919cf	19	4 2 2	7497	2162022	7497	62	62	1	1	-11.0	0	1	5	5	5	5	5	10	-1000.00	5000.0	-3000.0	-0.15	0.25	-25.0	-25.0	7982.8
00875	19	4 2 2	cl919cf	19	4 2 2	7497	2162122	7497	62	62	1	1	30.7	0	1	5	5	5	5	10	5	-1000.00	5000.0	-3000.0	-0.15	0.25	-25.0	-25.0	7982.8
00876	19	4 2 2	cl919cf	19	4 2 2	7504	2162022	7504	62	62	1	1	65.7	0	1	5	5	5	5	5	10	-500.00	5000.0	-3000.0	-0.15	0.25	-25.0	-20.0	7849.4
00877	19	4 2 2	cl919cf	19	4 2 2	7506	2162122	7506	62	62	1	1	-75.9	0	1	5	6	5	5	10	5	-1000.00	5000.0	-3000.0	-0.15	0.25	-25.0	-20.0	7959.5
00878	19	4 2 2	cl919cf	19	4 2 2	7596	2162022	7596	62	62	1	1	-11.0	0	1	5	5	5	5	5	10	-1000.00	5000.0	5000.0	-0.15	-0.25	-25.0	-30.0	7982.8
00879	19	4 2 2	cl919cf	19	4 2 2	7596	2162122	7596	62	62	1	1	30.7	0	1	5	5	5	5	10	5	-1000.00	5000.0	5000.0	-0.15	-0.25	-25.0	-30.0	7982.8
00880	19	4 2 2	cl919cf	19	4 2 2	7630	2162022	7630	62	62	1	1	73.5	0	1	5	6	5	5	5	10	-500.00	5000.0	-5000.0	-0.15	0.35	-25.0	-25.0	7862.4
00881	19	4 2 2	cl919cf	19	4 2 2	7631	2162022	7631	62	62	1	1	34.0	0	1	5	6	5	5	5	10	-750.00	5000.0	-5000.0	-0.15	0.35	-25.0	-25.0	7902.8
00882	19	4 2 2	cl919cf	19	4 2 2	7632	2162122	7632	62	62	1	1	-57.4	0	1	5	6	5	5	10	5	-1000.00	5000.0	-5000.0	-0.15	0.35	-25.0	-25.0	7936.3
00883	19	4 2 2	cl919cf	19	4 2 2	7638	2162022	7638	62	62	1	1	70.4	0	1	5	6	5	5	5	10	-250.00	5000.0	-5000.0	-0.15	0.35	-25.0	-20.0	7672.9
00884	19	4 2 2	cl919cf	19	4 2 2	7639	2162022	7639	62	62	1	1	-47.6	0	1	5	6	5	5	5	10	-500.00	5000.0	-5000.0	-0.15	0.35	-25.0	-20.0	7750.4
00885	19	4 2 2	cl919cf	19	4 2 2	7639	2162122	7639	62	62	1	1	72.1	0	1	5	6	5	5	10	5	-500.00	5000.0	-5000.0	-0.15	0.35	-25.0	-20.0	7750.4
00886	19	4 2 2	cl919cf	19	4 2 2	7640	2162022	7640	62	62	1	1	-61.5	0	1	5	6	5	5	5	10	-750.00	5000.0	-5000.0	-0.15	0.35	-25.0	-20.0	7849.4
00887	19	4 2 2	cl919cf	19	4 2 2	7640	2162122	7640	62	62	1	1	-8.8	0	1	5	6	5	5	10	5	-750.00	5000.0	-5000.0	-0.15	0.35	-25.0	-20.0	7858.9
00888	19	4 2 2	cl919cf	19	4 2 2	7641	2162022	7641	62	62	1	1	-44.5	0	1	5	6	5	5	5	10	-1000.00	5000.0	-5000.0	-0.15	0.35	-25.0	-20.0	8032.6
00889	19	4 2 2	cl919cf	19	4 2 2	7659	2162022	7659	62	62	1	1	75.5	0	1	5	5	5	5	5	10	-1000.00	5000.0	-3000.0	-0.15	0.35	-25.0	-25.0	8027.6
00890	19	4 2 2	cl919cf	19	4 2 2	7666	2162022	7666	62	62	1	1	65.9	0	1	5	5	5	5	5	10	-500.00	5000.0	-3000.0	-0.15	0.35	-25.0	-20.0	7854.7
00891	19	4 2 2	cl919cf	19	4 2 2	7667	2162122	7667	62	62	1	1	69.4	0	1	5	5	5	5	10	5	-750.00	5000.0	-3000.0	-0.15	0.35	-25.0	-20.0	7896.5
00892	19	4 2 2	cl919cf	19	4 2 2	7668	2162022	7668	62	62	1	1	-7.8	0	1	5	6	5	5	5	10	-1000.00	5000.0	-3000.0	-0.15	0.35	-25.0	-20.0	8027.6
00893	19	4 2 2	cl919cf	19	4 2 2	7668	2162122	7668	62	62	1	1	-99.1	1	1	5	6	5	5	10	5	-1000.00	5000.0	-3000.0	-0.15	0.35	-25.0	-20.0	7936.3
00894	19	4 2 2	cl919cf	19	4 2 2	7740	2162022	7740	62	62	1	1	-75.9	0	1	5	5	5	5	5	10	-1000.00	5000.0	3000.0	-0.15	-0.35	-25.0	-25.0	7959.5
00895	19	4 2 2	cl919cf	19	4 2 2	7740	2162122	7740	62	62	1	1	7.4	0	1	5	5	5	5	10	5	-1000.00	5000.0	3000.0	-0.15	-0.35	-25.0	-25.0	7959.5
01482	19	4 3 3	cl919or	19	4 3 3	341	2164033	341	64	64	1	1	88.4	0	1	4	5	4	5	5	10	-750.00	1000.0	-5000.0	-0.05	0.25	-25.0	-25.0	4073.8
01483	19	4 3 3	cl919or	19	4 3 3	349	2164033	349	64	64	1	1	-12.9	0	1	4	5	4	4	5	10	-500.00	1000.0	-5000.0	-0.05	0.25	-25.0	-20.0	3930.9
01484	19	4 3 3	cl919or	19	4 3 3	349	2164133	349	64	64	1	1	0.6	0	1	4	5	4	4	10	5	-500.00	1000.0	-5000.0	-0.05	0.25	-25.0	-20.0	3861.1
01485	19	4 3 3	cl919or	19	4 3 3	511	2164033	511	64	64	1	1	1.7	0	1	4	5	4	4	5	10	-500.00	1000.0	-5000.0	-0.05	0.35	-25.0	-20.0	3945.5
01486	19	4 3 3	cl919or	19	4 3 3	511	2164133	511	64	64	1	1	74.3	0	1	4	5	4	4	10	5	-500.00	1000.0	-5000.0	-0.05	0.35	-25.0	-20.0	3945.5
01487	19	4 3 3	cl919or	19	4 3 3	512	2164033	512	64	64	1	1	55.1	0	1	4	5	4	5	5	10	-750.00	1000.0	-5000.0	-0.05	0.35	-25.0	-20.0	4082.1
01488	19	4 3 3	cl919or	19	4 3 3	512	2164133	512	64	64	1	1	-19.9	0	1	4	5	4	5	10	5	-750.00	1000.0	-5000.0	-0.05	0.35	-25.0	-20.0	4007.1
01489	19	4 3 3	cl919or	19	4 3 3	640	2164033	640	64	64	1	1	-44.3	0	1	4	3	4	3	5	10	1000.00	1000.0	5000.0	-0.05	-0.35	-25.0	-20.0	3244.6
01490	19	4 3 3	cl919or	19	4 3 3	640	2164133	640	64	64	1	1	-21.0	0	1	4	3	4	3	10	5	1000.00	1000.0	5000.0	-0.05	-0.35	-25.0	-20.0	3267.9
01491	19	4 3 3	cl919or	19	4 3 3	827	2164033	827	64	64	1	1	-17.3	0	1	3	5	4	5	5	10	-750.00	3000.0	-5000.0	-0.05	0.15	-25.0	-25.0	3973.2
01492	19	4 3 3	cl919or	19	4 3 3	827	2164133	827	64	64	1	1	50.8	0	1	3	5	4	5	10	5	-750.00	3000.0	-5000.0	-0.05	0.15	-25.0	-25.0	3973.2
01493	19	4 3 3	cl919or	19	4 3 3	988	2164033	988	64	64	1	1	66.9	0	1	3	5	4	4	5	10	-500.00	3000.0	-5000.0	-0.05	0.25	-25.0	-25.0	3927.3
01494	19	4 3 3	cl919or	19	4 3 3	989	2164033	989	64	64	1	1	-78.7	0	1	3	5	4	4	5	10	-750.00	3000.0	-5000.0	-0.05	0.25	-25.0	-25.0	3948.3
01495	19	4 3 3	cl919or	19	4 3 3	989	2164133	989	64	64	1	1	60.7	0	1	3	5	4	4	10	5	-750.00	3000.0	-5000.0	-0.05	0.25	-25.0	-25.0	3952.9
01496	19	4 3 3	cl919or	19	4 3 3	996	2164033	996	64	64	1	1	-28.9	1	1	3	5	4	4	5	10	-250.00	3000.0	-5000.0	-0.05	0.25	-25.0	-20.0	3787.3
01497	19	4 3 3	cl919or	19	4 3 3	996	2164133	996	64	64	1	1	93.5	0	1	3	5	4	4	10	5	-250.00	3000.0	-5000.0	-0.05	0.25	-25.0	-20.0	3787.3
01498	19	4 3 3	cl919or	19	4 3 3	997	2164033	997	64	64	1	1	-74.7	0	1	3	5	4	4	5	10	-500.00	3000.0	-5000.0	-0.05	0.25	-25.0	-20.0	3869.1
01499	19	4 3 3	cl919or	19	4 3 3	997	2164133	997	64	64	1	1	-18.9	0	1	3	5	4	4	10	5	-500.00	3000.0	-5000.0	-0.05	0.25	-25.0	-20.0	3831.7
01500	19	4 3 3	cl919or	19	4 3 3	998	2164033	998	64	64	1	1	38.1	0	1	3	5	4	5	5	10	-750.00	3000.0	-5000.0	-0.05	0.25	-25.0	-20.0	4041.7
01501	19	4 3 3	cl919or	19	4 3 3	998	2164133	998	64	64	1	1	-43.9	0	1	3	5	4	5	10	5	-750.00	3000.0	-5000.0	-0.05	0.25	-25.0	-20.0	3959.7
01502	19	4 3 3	cl919or	19	4 3 3	1117	2164133	1117	64	64	1	1	-69.2	0	1	4	3	4	4	10	5	1000.00	3000.0	5000.0	-0.05	-0.25	-25.0	-25.0	3188.5
01503	19	4 3 3	cl919or	19	4 3 3	1151	2164033	1151	64	64	1	1	-77.2	0	1	3	5	4	4	5	10	-750.00	3000.0	-5000.0	-0.05	0.35	-25.0	-25.0	3949.9
01504	19	4 3 3	cl919or	19	4 3 3	1151	2164133	1151	64	64	1	1	43.2	0	1	3	5	4	4	10	5	-750.00	3000.0	-5000.0	-0.05	0.35	-25.0	-25.0	3945.3
01505	19	4 3 3	cl919or	19	4 3 3	1158	2164033	1158	64	64	1	1	73.3	0	1	3	5	4	4	5	10	-250.00	3000.0	-5000.0	-0.05	0.35	-25.0	-20.0	3808.7
01506	19	4 3 3	cl919or	19	4 3 3	1159	2164033	1159	64	64	1	1	-60.5	0	1	3	5	4	4	5	10	-500.00	3000.0	-5000.0	-0.05	0.35	-25.0	-20.0	3883.2
01507	19	4 3 3	cl919or	19	4 3 3	1159	2164133	1159	64	64	1	1	22.8	0	1	3	5	4	4	10	5	-500.00	3000.0	-5000.0	-0.05	0.35	-25.0	-20.0	3883.2
01508	19	4 3 3	cl919or	19	4 3 3	1160	2164033	1160	64	64	1	1	-78.7	0	1	3	5	4	5	5	10	-750.00	3000.0	-5000.0	-0.05	0.35	-25.0	-20.0	3948.3
01509	19	4 3 3	cl919or	19	4 3 3	1475	2164133	1475	64	64	1	1	84.1	0	1	2	5	4	5	10	5	-750.00	5000.0	-5000.0	-0.05	0.15	-25.0	-25.0	4006.5

SEQ NUM	CLS	TBL	ROW	COL																													
01510	19	4	3	3	cl919or	19	4	3	3	1636	2164033	1636	64	64	1	1	22.3	0	1	2	5	4	4	5	10	-500.00	5000.0	-5000.0	-0.05	0.25	-25.0	-25.0	3882.7
01511	19	4	3	3	cl919or	19	4	3	3	1637	2164033	1637	64	64	1	1	-86.3	0	1	2	5	4	4	5	10	-750.00	5000.0	-5000.0	-0.05	0.25	-25.0	-25.0	3940.8
01512	19	4	3	3	cl919or	19	4	3	3	1637	2164133	1637	64	64	1	1	48.5	0	1	2	5	4	4	10	5	-750.00	5000.0	-5000.0	-0.05	0.25	-25.0	-25.0	3940.8
01513	19	4	3	3	cl919or	19	4	3	3	1638	2164133	1638	64	64	1	1	-48.6	0	1	2	5	3	5	10	5	-1000.00	5000.0	-5000.0	-0.05	0.25	-25.0	-25.0	4041.7
01514	19	4	3	3	cl919or	19	4	3	3	1645	2164033	1645	64	64	1	1	-45.8	0	1	2	5	4	4	5	10	-500.00	5000.0	-5000.0	-0.05	0.25	-25.0	-20.0	3856.3
01515	19	4	3	3	cl919or	19	4	3	3	1645	2164133	1645	64	64	1	1	5.8	0	1	2	5	4	4	10	5	-500.00	5000.0	-5000.0	-0.05	0.25	-25.0	-20.0	3856.3
01516	19	4	3	3	cl919or	19	4	3	3	1774	2164133	1774	64	64	1	1	-7.6	0	1	3	3	4	3	10	5	1000.00	5000.0	5000.0	-0.05	-0.25	-25.0	-20.0	3184.9
01517	19	4	3	3	cl919or	19	4	3	3	1799	2164033	1799	64	64	1	1	62.7	0	1	2	5	4	4	5	10	-750.00	5000.0	-5000.0	-0.05	0.35	-25.0	-25.0	4006.5
01518	19	4	3	3	cl919or	19	4	3	3	1807	2164133	1807	64	64	1	1	-28.7	0	1	2	5	4	4	10	5	-500.00	5000.0	-5000.0	-0.05	0.35	-25.0	-20.0	3831.7
01519	19	4	3	3	cl919or	19	4	3	3	1808	2164033	1808	64	64	1	1	-20.6	0	1	2	5	4	5	5	10	-750.00	5000.0	-5000.0	-0.05	0.35	-25.0	-20.0	4006.5
01520	19	4	3	3	cl919or	19	4	3	3	1936	2164133	1936	64	64	1	1	52.4	0	1	3	3	4	3	10	5	1000.00	5000.0	5000.0	-0.05	-0.35	-25.0	-20.0	3222.4
01521	19	4	3	3	cl919or	19	4	3	3	2285	2164133	2285	64	64	1	1	88.4	0	1	4	5	4	5	5	10	-750.00	1000.0	-5000.0	-0.15	0.25	-25.0	-25.0	4073.8
01522	19	4	3	3	cl919or	19	4	3	3	2286	2164033	2286	64	64	1	1	-39.0	0	1	4	5	4	5	5	10	-1000.00	1000.0	-5000.0	-0.15	0.25	-25.0	-25.0	4165.5
01523	19	4	3	3	cl919or	19	4	3	3	2286	2164133	2286	64	64	1	1	8.5	0	1	4	5	4	5	10	5	-1000.00	1000.0	-5000.0	-0.15	0.25	-25.0	-25.0	4098.8
01524	19	4	3	3	cl919or	19	4	3	3	2293	2164033	2293	64	64	1	1	55.1	0	1	4	5	4	4	5	10	-500.00	1000.0	-5000.0	-0.15	0.25	-25.0	-20.0	3957.1
01525	19	4	3	3	cl919or	19	4	3	3	2293	2164133	2293	64	64	1	1	35.6	0	1	4	5	4	4	10	5	-500.00	1000.0	-5000.0	-0.15	0.25	-25.0	-20.0	3886.1
01526	19	4	3	3	cl919or	19	4	3	3	2294	2164033	2294	64	64	1	1	45.2	0	1	4	5	4	5	5	10	-750.00	1000.0	-5000.0	-0.15	0.25	-25.0	-20.0	4048.8
01527	19	4	3	3	cl919or	19	4	3	3	2448	2164033	2448	64	64	1	1	-17.5	0	1	4	5	4	5	5	10	-1000.00	1000.0	-5000.0	-0.15	0.35	-25.0	-25.0	4187.0
01528	19	4	3	3	cl919or	19	4	3	3	2448	2164133	2448	64	64	1	1	76.6	0	1	4	5	4	5	10	5	-1000.00	1000.0	-5000.0	-0.15	0.35	-25.0	-25.0	4187.0
01529	19	4	3	3	cl919or	19	4	3	3	2455	2164033	2455	64	64	1	1	1.7	0	1	4	5	4	4	5	10	-500.00	1000.0	-5000.0	-0.15	0.35	-25.0	-20.0	3945.5
01530	19	4	3	3	cl919or	19	4	3	3	2455	2164133	2455	64	64	1	1	85.1	0	1	4	5	4	4	10	5	-500.00	1000.0	-5000.0	-0.15	0.35	-25.0	-20.0	3945.5
01531	19	4	3	3	cl919or	19	4	3	3	2763	2164033	2763	64	64	1	1	60.9	0	1	4	5	4	5	5	10	-1000.00	3000.0	-5000.0	-0.15	0.15	-25.0	-30.0	4190.2
01532	19	4	3	3	cl919or	19	4	3	3	2763	2164133	2763	64	64	1	1	-10.0	0	1	4	5	4	5	10	5	-1000.00	3000.0	-5000.0	-0.15	0.15	-25.0	-30.0	4119.3
01533	19	4	3	3	cl919or	19	4	3	3	2771	2164033	2771	64	64	1	1	69.5	0	1	4	5	4	5	5	10	-750.00	3000.0	-5000.0	-0.15	0.15	-25.0	-25.0	4122.9
01534	19	4	3	3	cl919or	19	4	3	3	2771	2164133	2771	64	64	1	1	-13.9	0	1	4	5	4	5	10	5	-750.00	3000.0	-5000.0	-0.15	0.15	-25.0	-25.0	4039.6
01535	19	4	3	3	cl919or	19	4	3	3	2772	2164033	2772	64	64	1	1	-28.8	0	1	4	5	4	5	5	10	-1000.00	3000.0	-5000.0	-0.15	0.15	-25.0	-25.0	4206.2
01536	19	4	3	3	cl919or	19	4	3	3	2883	2164133	2883	64	64	1	1	-28.8	0	1	4	3	4	4	10	5	500.00	3000.0	3000.0	-0.15	-0.15	-25.0	-20.0	3469.1
01537	19	4	3	3	cl919or	19	4	3	3	2909	2164033	2909	64	64	1	1	60.2	0	1	4	3	4	3	5	10	750.00	3000.0	5000.0	-0.15	-0.15	-25.0	-20.0	3329.5
01538	19	4	3	3	cl919or	19	4	3	3	2940	2164033	2940	64	64	1	1	-32.6	1	1	4	5	4	4	5	10	-250.00	3000.0	-5000.0	-0.15	0.25	-25.0	-20.0	3786.1
01539	19	4	3	3	cl919or	19	4	3	3	2940	2164133	2940	64	64	1	1	50.7	0	1	4	5	4	4	10	5	-250.00	3000.0	-5000.0	-0.15	0.25	-25.0	-20.0	3786.1
01540	19	4	3	3	cl919or	19	4	3	3	2961	2164033	2961	64	64	1	1	83.6	0	1	4	5	4	5	5	10	-1000.00	3000.0	-3000.0	-0.15	0.25	-25.0	-25.0	4235.7
01541	19	4	3	3	cl919or	19	4	3	3	2969	2164133	2969	64	64	1	1	43.4	0	1	4	5	4	5	10	5	-750.00	3000.0	-3000.0	-0.15	0.25	-25.0	-20.0	4122.9
01542	19	4	3	3	cl919or	19	4	3	3	2970	2164133	2970	64	64	1	1	-8.6	0	1	4	5	4	5	10	5	-1000.00	3000.0	-3000.0	-0.15	0.25	-25.0	-20.0	4206.2
01543	19	4	3	3	cl919or	19	4	3	3	3071	2164033	3071	64	64	1	1	76.8	0	1	4	3	4	4	5	10	750.00	3000.0	5000.0	-0.15	-0.25	-25.0	-20.0	3376.2
01544	19	4	3	3	cl919or	19	4	3	3	3123	2164033	3123	64	64	1	1	91.6	0	1	4	5	4	5	5	10	-1000.00	3000.0	-3000.0	-0.15	0.35	-25.0	-25.0	4243.6
01545	19	4	3	3	cl919or	19	4	3	3	3131	2164033	3131	64	64	1	1	-9.0	0	1	4	5	4	4	10	5	-750.00	3000.0	-3000.0	-0.15	0.35	-25.0	-25.0	4070.5
01546	19	4	3	3	cl919or	19	4	3	3	3132	2164133	3132	64	64	1	1	-16.7	0	1	4	5	4	5	10	5	-1000.00	3000.0	-3000.0	-0.15	0.35	-25.0	-20.0	4206.2
01547	19	4	3	3	cl919or	19	4	3	3	3248	2164033	3248	64	64	1	1	36.4	0	1	3	5	4	5	5	10	-750.00	5000.0	-5000.0	-0.15	0.05	-25.0	-30.0	4182.8
01548	19	4	3	3	cl919or	19	4	3	3	3248	2164133	3248	64	64	1	1	13.1	0	1	3	5	4	5	10	5	-750.00	5000.0	-5000.0	-0.15	0.05	-25.0	-30.0	4159.5
01549	19	4	3	3	cl919or	19	4	3	3	3257	2164133	3257	64	64	1	1	39.2	0	1	3	5	4	5	10	5	-750.00	5000.0	-5000.0	-0.15	0.05	-25.0	-25.0	4182.8
01550	19	4	3	3	cl919or	19	4	3	3	3273	2164033	3273	64	64	1	1	59.7	0	1	3	5	4	4	5	10	-250.00	5000.0	-3000.0	-0.15	0.05	-25.0	-30.0	3872.9
01551	19	4	3	3	cl919or	19	4	3	3	3273	2164133	3273	64	64	1	1	91.4	0	1	3	5	4	4	10	5	-250.00	5000.0	-3000.0	-0.15	0.05	-25.0	-30.0	3872.9
01552	19	4	3	3	cl919or	19	4	3	3	3275	2164133	3275	64	64	1	1	97.4	0	1	3	5	4	5	10	5	-750.00	5000.0	-3000.0	-0.15	0.05	-25.0	-30.0	4159.5
01553	19	4	3	3	cl919or	19	4	3	3	3282	2164133	3282	64	64	1	1	92.2	0	1	3	5	4	4	10	5	-250.00	5000.0	-3000.0	-0.15	0.05	-25.0	-25.0	3889.2
01554	19	4	3	3	cl919or	19	4	3	3	3284	2164033	3284	64	64	1	1	62.4	0	1	3	5	4	5	5	10	-750.00	5000.0	-3000.0	-0.15	0.05	-25.0	-25.0	4227.6
01555	19	4	3	3	cl919or	19	4	3	3	3284	2164133	3284	64	64	1	1	-5.7	0	1	3	5	4	5	10	5	-750.00	5000.0	-3000.0	-0.15	0.05	-25.0	-25.0	4159.5
01556	19	4	3	3	cl919or	19	4	3	3	3292	2164133	3292	64	64	1	1	80.3	0	1	3	5	4	5	10	5	-500.00	5000.0	-3000.0	-0.15	0.05	-25.0	-20.0	4102.8
01557	19	4	3	3	cl919or	19	4	3	3	3293	2164133	3293	64	64	1	1	-6.1	0	1	3	5	4	5	10	5	-750.00	5000.0	-3000.0	-0.15	0.05	-25.0	-20.0	4159.5
01558	19	4	3	3	cl919or	19	4	3	3	3338	2164033	3338	64	64	1	1	100.0	0	1	4	4	4	4	5	10	-750.00	5000.0	1000.0	-0.15	-0.05	-25.0	-25.0	4159.5
01559	19	4	3	3	cl919or	19	4	3	3	3409	2164033	3409	64	64	1	1	-78.1	1	1	3	5	4	5	5	10	-500.00	5000.0	-5000.0	-0.15	0.15	-25.0	-30.0	3960.8
01560	19	4	3	3	cl919or	19	4	3	3	3409	2164133	3409	64	64	1	1	-28.1	0	1	3	5	4	4	10	5	-500.00	5000.0	-5000.0	-0.15	0.15	-25.0	-30.0	3960.8
01561	19	4	3	3	cl919or	19	4	3	3	3410	2164133	3410	64	64	1	1	-89.0	1	1	3	5	4	4	10	5	-750.00	5000.0	-5000.0	-0.15	0.15	-25.0	-30.0	4062.3
01562	19	4	3	3	cl919or	19	4	3	3	3411	2164033	3411	64	64	1	1	96.9	0	1	3	5	4	5	5	10	-1000.00	5000.0	-5000.0	-0.15	0.15	-25.0	-30.0	4327.8
01563	19	4	3	3	cl919or	19	4	3	3	3411	2164133	3411	64	64	1	1	1.7	0	1	3	5	4	5	10	5	-1000.00	5000.0	-5000.0	-0.15	0.15	-25.0	-30.0	4232.6
01564	19	4	3	3	cl919or	19	4	3	3	3418	2164033	3418	64	64	1	1	-48.0	0	1	3	5	4	4	5	10	-500.00	5000.0	-5000.0	-0.15	0.15	-25.0	-25.0	3926.0
01565	19	4	3	3	cl919or	19	4	3	3	3418	2164133	3418	64	64	1	1	-91.9	1	1	3	5	4	4	10	5	-500.00	5000.0	-5000.0	-0.15	0.15	-25.0	-25.0	3882.1
01566	19	4	3	3	cl919or	19	4	3	3	3419	2164033	3419	64	64	1	1	55.6	0	1	3	5	4	5	5	10	-750.00	5000.0	-5000.0	-0.15	0.15	-25.0	-25.0	4102.8
01567	19	4	3	3	cl919or	19	4	3	3	3419	2164133	3419	64	64	1	1	84.3	0	1	3	5	4	5	10	5	-750.00	5000.0	-5000.0	-0.15	0.15	-25.0	-25.0	4102.8
01568	19	4	3	3	cl919or	19	4	3	3	3426	2164033	3426	64	64	1	1	53.2	0	1	3	5	4	4	5	10	-250.00	5000.0	-5000.0	-0.15	0.15	-25.0	-20.0	3862.2
01569	19	4	3	3	cl919or	19	4	3	3	3426	2164133	3426	64	64	1	1	-19.4	0	1	3	5	4	4	10	5	-250.00	5000.0	-5000.0	-0.15	0.15	-25.0	-20.0	3789.6
01570	19	4	3	3	cl919or	19	4	3	3	3427	2164133	3427	64	64	1	1	10.3	0	1	3	5	4	4	10	5	-500.00	5000.0	-5000.0	-0.15	0.15	-25.0	-20.0	3914.6
01571	19	4	3	3	cl919or	19	4	3	3	3429	2164133	3429	64	64	1	1	59.8	0	1	3	5	4	5	10	5	-1000.00	5000.0	-5000.0	-0.15	0.15	-25.0	-20.0	4102.8
01572	19	4	3	3	cl919or	19	4	3	3	3438	2164033	3438	64	64	1	1	75.5	0	1	3	5	4	5	5	10	-1000.00	5000.0	-3000.0	-0.15	0.15	-25.0	-30.0	4227.6
01573	19	4	3	3	cl919or	19	4	3	3	3445	2164033	3445	64	64	1	1	73.5	0	1	3	5	4	4	5	10	-500.00	5000.0	-3000.0	-0.15	0.15	-25.0	-25.0	4062.3
01574	19	4	3	3	cl919or	19	4	3	3	3446	2164033	3446	64	64	1	1	75.0	0	1	3	5	4	4	5	10	-750.00	5000.0	-3000.0	-0.15	0.15	-25.0	-25.0	4159.5
01575	19	4	3	3	cl919or	19	4	3	3	3446	2164133	3446	64	64	1	1	-86.1	1	1	3	5	4	4	10	5	-750.00	5000.0	-3000.0	-0.15	0.15	-25.0	-25.0	4102.8

SEQ NUM	CLS	TBL	ROW	COL																													
01576	19	4	3	3	cl919or	19	4	3	3	3447	2164033	3447	64	64	1	1	-70.5	0	1	3	5	4	5	5	10	-1000.00	5000.0	-3000.0	-0.15	0.15	-25.0	-25.0	4164.9
01577	19	4	3	3	cl919or	19	4	3	3	3447	2164133	3447	64	64	1	1	-28.8	0	1	3	5	4	5	10	5	-1000.00	5000.0	-3000.0	-0.15	0.15	-25.0	-25.0	4164.9
01578	19	4	3	3	cl919or	19	4	3	3	3453	2164133	3453	64	64	1	1	96.7	0	1	3	5	4	4	10	5	-250.00	5000.0	-3000.0	-0.15	0.15	-25.0	-20.0	3872.9
01579	19	4	3	3	cl919or	19	4	3	3	3454	2164033	3454	64	64	1	1	9.3	0	1	3	5	4	4	5	10	-500.00	5000.0	-3000.0	-0.15	0.15	-25.0	-20.0	3992.8
01580	19	4	3	3	cl919or	19	4	3	3	3454	2164133	3454	64	64	1	1	-18.9	0	1	3	5	4	4	10	5	-500.00	5000.0	-3000.0	-0.15	0.15	-25.0	-20.0	3936.5
01581	19	4	3	3	cl919or	19	4	3	3	3455	2164133	3455	64	64	1	1	91.1	0	1	3	5	4	5	10	5	-750.00	5000.0	-3000.0	-0.15	0.15	-25.0	-20.0	4102.8
01582	19	4	3	3	cl919or	19	4	3	3	3456	2164033	3456	64	64	1	1	-26.5	0	1	3	5	4	5	5	10	-1000.00	5000.0	-3000.0	-0.15	0.15	-25.0	-20.0	4227.6
01583	19	4	3	3	cl919or	19	4	3	3	3482	2164133	3482	64	64	1	1	71.9	0	1	4	4	4	4	10	5	-750.00	5000.0	-1000.0	-0.15	0.15	-25.0	-20.0	4131.5
01584	19	4	3	3	cl919or	19	4	3	3	3544	2164033	3544	64	64	1	1	-36.6	0	1	4	4	4	4	5	10	-500.00	5000.0	5000.0	-0.15	-0.15	-25.0	-30.0	3914.6
01585	19	4	3	3	cl919or	19	4	3	3	3544	2164133	3544	64	64	1	1	34.4	0	1	4	4	4	4	10	5	-500.00	5000.0	5000.0	-0.15	-0.15	-25.0	-30.0	3914.6
01586	19	4	3	3	cl919or	19	4	3	3	3573	2164033	3573	64	64	1	1	-11.0	0	1	3	5	4	5	5	10	-1000.00	5000.0	-5000.0	-0.15	0.25	-25.0	-30.0	4182.8
01587	19	4	3	3	cl919or	19	4	3	3	3573	2164133	3573	64	64	1	1	30.7	0	1	3	5	4	5	10	5	-1000.00	5000.0	-5000.0	-0.15	0.25	-25.0	-30.0	4182.8
01588	19	4	3	3	cl919or	19	4	3	3	3579	2164033	3579	64	64	1	1	29.7	0	1	3	5	4	4	5	10	-250.00	5000.0	-5000.0	-0.15	0.25	-25.0	-25.0	3832.1
01589	19	4	3	3	cl919or	19	4	3	3	3579	2164133	3579	64	64	1	1	81.0	0	1	3	5	4	4	10	5	-250.00	5000.0	-5000.0	-0.15	0.25	-25.0	-25.0	3832.1
01590	19	4	3	3	cl919or	19	4	3	3	3580	2164033	3580	64	64	1	1	-78.1	1	1	3	5	4	4	5	10	-500.00	5000.0	-5000.0	-0.15	0.25	-25.0	-25.0	3960.8
01591	19	4	3	3	cl919or	19	4	3	3	3580	2164133	3580	64	64	1	1	-28.1	0	1	3	5	4	4	10	5	-500.00	5000.0	-5000.0	-0.15	0.25	-25.0	-25.0	3960.8
01592	19	4	3	3	cl919or	19	4	3	3	3581	2164133	3581	64	64	1	1	-55.0	0	1	3	5	4	4	10	5	-750.00	5000.0	-5000.0	-0.15	0.25	-25.0	-25.0	4058.8
01593	19	4	3	3	cl919or	19	4	3	3	3589	2164033	3589	64	64	1	1	-78.1	1	1	3	5	4	4	5	10	-500.00	5000.0	-5000.0	-0.15	0.25	-25.0	-20.0	3936.5
01594	19	4	3	3	cl919or	19	4	3	3	3590	2164133	3590	64	64	1	1	-68.3	0	1	3	5	4	5	10	5	-750.00	5000.0	-5000.0	-0.15	0.25	-25.0	-20.0	3987.6
01595	19	4	3	3	cl919or	19	4	3	3	3616	2164033	3616	64	64	1	1	-7.8	0	1	3	5	4	4	5	10	-500.00	5000.0	-3000.0	-0.15	0.25	-25.0	-20.0	4006.0
01596	19	4	3	3	cl919or	19	4	3	3	3616	2164133	3616	64	64	1	1	22.3	0	1	3	5	4	4	10	5	-500.00	5000.0	-3000.0	-0.15	0.25	-25.0	-20.0	4006.0
01597	19	4	3	3	cl919or	19	4	3	3	3617	2164033	3617	64	64	1	1	38.3	0	1	3	5	4	5	5	10	-750.00	5000.0	-3000.0	-0.15	0.25	-25.0	-20.0	4136.3
01598	19	4	3	3	cl919or	19	4	3	3	3617	2164133	3617	64	64	1	1	-91.8	1	1	3	5	4	4	10	5	-750.00	5000.0	-3000.0	-0.15	0.25	-25.0	-20.0	4058.8
01599	19	4	3	3	cl919or	19	4	3	3	3618	2164033	3618	64	64	1	1	-94.3	1	1	3	5	4	5	5	10	-1000.00	5000.0	-3000.0	-0.15	0.25	-25.0	-20.0	4182.8
01600	19	4	3	3	cl919or	19	4	3	3	3644	2164133	3644	64	64	1	1	71.9	0	1	4	4	4	4	10	5	-750.00	5000.0	-1000.0	-0.15	0.25	-25.0	-20.0	4131.5
01601	19	4	3	3	cl919or	19	4	3	3	3697	2164133	3697	64	64	1	1	-61.6	0	1	4	4	4	4	10	5	-500.00	5000.0	3000.0	-0.15	-0.25	-25.0	-20.0	3914.6
01602	19	4	3	3	cl919or	19	4	3	3	3711	2164033	3711	64	64	1	1	-83.0	0	1	4	3	4	4	5	10	500.00	5000.0	5000.0	-0.15	-0.25	-25.0	-25.0	3289.9
01603	19	4	3	3	cl919or	19	4	3	3	3715	2164133	3715	64	64	1	1	-36.6	0	1	4	4	4	4	10	5	-500.00	5000.0	5000.0	-0.15	-0.25	-25.0	-25.0	3914.6
01604	19	4	3	3	cl919or	19	4	3	3	3741	2164033	3741	64	64	1	1	70.5	0	1	3	5	4	4	5	10	-250.00	5000.0	-5000.0	-0.15	0.35	-25.0	-25.0	3872.9
01605	19	4	3	3	cl919or	19	4	3	3	3742	2164033	3742	64	64	1	1	73.5	0	1	3	5	4	4	5	10	-500.00	5000.0	-5000.0	-0.15	0.35	-25.0	-25.0	4062.3
01606	19	4	3	3	cl919or	19	4	3	3	3744	2164133	3744	64	64	1	1	-99.1	1	1	3	5	4	5	10	5	-1000.00	5000.0	-5000.0	-0.15	0.35	-25.0	-25.0	4136.3
01607	19	4	3	3	cl919or	19	4	3	3	3778	2164033	3778	64	64	1	1	65.9	0	1	3	5	4	4	5	10	-500.00	5000.0	-3000.0	-0.15	0.35	-25.0	-20.0	4054.7
01608	19	4	3	3	cl919or	19	4	3	3	3778	2164133	3778	64	64	1	1	26.2	0	1	3	5	4	4	10	5	-500.00	5000.0	-3000.0	-0.15	0.35	-25.0	-20.0	4015.0
01609	19	4	3	3	cl919or	19	4	3	3	3780	2164033	3780	64	64	1	1	-94.3	1	1	3	5	4	5	5	10	-1000.00	5000.0	-3000.0	-0.15	0.35	-25.0	-20.0	4182.8
01610	19	4	3	3	cl919or	19	4	3	3	3806	2164133	3806	64	64	1	1	76.8	0	1	4	4	4	4	10	5	-750.00	5000.0	-1000.0	-0.15	0.35	-25.0	-20.0	4136.3
01611	19	4	3	3	cl919or	19	4	3	3	3833	2164033	3833	64	64	1	1	100.0	0	1	4	4	4	4	5	10	-750.00	5000.0	1000.0	-0.15	-0.35	-25.0	-20.0	4159.5
01612	19	4	3	3	cl919or	19	4	3	3	3859	2164133	3859	64	64	1	1	-36.6	0	1	4	4	4	4	10	5	-500.00	5000.0	3000.0	-0.15	-0.35	-25.0	-20.0	3914.6
01613	19	4	3	3	cl919or	19	4	3	3	4237	2164033	4237	64	64	1	1	55.0	0	1	5	6	5	5	5	10	-500.00	1000.0	-5000.0	-0.05	0.25	-25.0	-20.0	7757.1
01614	19	4	3	3	cl919or	19	4	3	3	4237	2164133	4237	64	64	1	1	82.2	0	1	5	6	5	5	10	5	-500.00	1000.0	-5000.0	-0.05	0.25	-25.0	-20.0	7686.1
01615	19	4	3	3	cl919or	19	4	3	3	4238	2164033	4238	64	64	1	1	-76.7	0	1	5	6	5	6	5	10	-750.00	1000.0	-5000.0	-0.05	0.25	-25.0	-20.0	7772.0
01616	19	4	3	3	cl919or	19	4	3	3	4322	2164133	4322	64	64	1	1	-71.3	0	1	5	5	5	5	10	5	750.00	1000.0	3000.0	-0.05	-0.25	-25.0	-30.0	6851.6
01617	19	4	3	3	cl919or	19	4	3	3	4399	2164033	4399	64	64	1	1	76.6	0	1	5	6	5	5	5	10	-500.00	1000.0	-5000.0	-0.05	0.35	-25.0	-20.0	7778.7
01618	19	4	3	3	cl919or	19	4	3	3	4877	2164033	4877	64	64	1	1	-69.8	0	1	5	6	5	5	5	10	-750.00	3000.0	-5000.0	-0.05	0.25	-25.0	-25.0	7757.3
01619	19	4	3	3	cl919or	19	4	3	3	4877	2164133	4877	64	64	1	1	60.7	0	1	5	6	5	5	10	5	-750.00	3000.0	-5000.0	-0.05	0.25	-25.0	-25.0	7752.9
01620	19	4	3	3	cl919or	19	4	3	3	4885	2164033	4885	64	64	1	1	76.7	0	1	5	6	5	5	5	10	-500.00	3000.0	-5000.0	-0.05	0.25	-25.0	-20.0	7727.3
01621	19	4	3	3	cl919or	19	4	3	3	4885	2164133	4885	64	64	1	1	57.7	0	1	5	6	5	5	10	5	-500.00	3000.0	-5000.0	-0.05	0.25	-25.0	-20.0	7708.3
01622	19	4	3	3	cl919or	19	4	3	3	4969	2164133	4969	64	64	1	1	-40.0	0	1	5	5	5	5	10	5	1000.00	3000.0	3000.0	-0.05	-0.25	-25.0	-30.0	6622.2
01623	19	4	3	3	cl919or	19	4	3	3	5039	2164033	5039	64	64	1	1	-12.2	0	1	5	6	5	5	5	10	-750.00	3000.0	-5000.0	-0.05	0.35	-25.0	-25.0	7773.2
01624	19	4	3	3	cl919or	19	4	3	3	5039	2164133	5039	64	64	1	1	71.1	0	1	5	6	5	5	10	5	-750.00	3000.0	-5000.0	-0.05	0.35	-25.0	-25.0	7773.2
01625	19	4	3	3	cl919or	19	4	3	3	5047	2164033	5047	64	64	1	1	-2.5	0	1	5	6	5	5	5	10	-500.00	3000.0	-5000.0	-0.05	0.35	-25.0	-20.0	7699.6
01626	19	4	3	3	cl919or	19	4	3	3	5047	2164133	5047	64	64	1	1	39.2	0	1	5	6	5	5	10	5	-500.00	3000.0	-5000.0	-0.05	0.35	-25.0	-20.0	7699.6
01627	19	4	3	3	cl919or	19	4	3	3	5131	2164133	5131	64	64	1	1	-40.0	0	1	5	5	5	5	10	5	1000.00	3000.0	3000.0	-0.05	-0.35	-25.0	-30.0	6622.2
01628	19	4	3	3	cl919or	19	4	3	3	5524	2164033	5524	64	64	1	1	92.0	0	1	4	6	5	5	5	10	-500.00	5000.0	-5000.0	-0.05	0.25	-25.0	-25.0	7710.8
01629	19	4	3	3	cl919or	19	4	3	3	5525	2164033	5525	64	64	1	1	-86.3	0	1	4	6	5	5	5	10	-750.00	5000.0	-5000.0	-0.05	0.25	-25.0	-25.0	7740.8
01630	19	4	3	3	cl919or	19	4	3	3	5525	2164133	5525	64	64	1	1	48.5	0	1	4	6	5	5	10	5	-750.00	5000.0	-5000.0	-0.05	0.25	-25.0	-25.0	7740.8
01631	19	4	3	3	cl919or	19	4	3	3	5533	2164133	5533	64	64	1	1	84.0	0	1	4	6	4	5	10	5	-500.00	5000.0	-5000.0	-0.05	0.25	-25.0	-20.0	7682.7
01632	19	4	3	3	cl919or	19	4	3	3	5687	2164033	5687	64	64	1	1	62.7	0	1	4	6	5	5	5	10	-750.00	5000.0	-5000.0	-0.05	0.35	-25.0	-25.0	7806.5
01633	19	4	3	3	cl919or	19	4	3	3	5695	2164033	5695	64	64	1	1	22.2	0	1	4	6	5	5	5	10	-500.00	5000.0	-5000.0	-0.05	0.35	-25.0	-20.0	7682.7
01634	19	4	3	3	cl919or	19	4	3	3	5695	2164133	5695	64	64	1	1	63.9	0	1	4	6	5	5	10	5	-500.00	5000.0	-5000.0	-0.05	0.35	-25.0	-20.0	7682.7
01635	19	4	3	3	cl919or	19	4	3	3	6164	2164133	6164	64	64	1	1	85.1	0	1	5	6	5	5	10	5	-750.00	1000.0	-5000.0	-0.15	0.25	-25.0	-30.0	7672.9
01636	19	4	3	3	cl919or	19	4	3	3	6174	2164033	6174	64	64	1	1	-39.0	0	1	5	6	5	5	5	10	-1000.00	1000.0	-5000.0	-0.15	0.25	-25.0	-25.0	7965.5
01637	19	4	3	3	cl919or	19	4	3	3	6174	2164133	6174	64	64	1	1	8.5	0	1	5	6	5	5	10	5	-1000.00	1000.0	-5000.0	-0.15	0.25	-25.0	-25.0	7898.8
01638	19	4	3	3	cl919or	19	4	3	3	6181	2164033	6181	64	64	1	1	55.0	0	1	5	6	5	5	5	10	-500.00	1000.0	-5000.0	-0.15	0.25	-25.0	-20.0	7757.1
01639	19	4	3	3	cl919or	19	4	3	3	6181	2164133	6181	64	64	1	1	35.6	0	1	5	6	5	5	10	5	-500.00	1000.0	-5000.0	-0.15	0.25	-25.0	-20.0	7686.1
01640	19	4	3	3	cl919or	19	4	3	3	6182	2164033	6182	64	64	1	1	67.6	0	1	5	6	5	6	5	10	-750.00	1000.0	-5000.0	-0.15	0.25	-25.0	-20.0	7871.2
01641	19	4	3	3	cl919or	19	4	3	3	6275	2164033	6275	64	64	1	1	12.9	0	1	5	5	5	5	5	10	750.00	1000.0	3000.0	-0.15	-0.25	-25.0	-25.0	6894.1

SEQ NUM	CLS	TBL	ROW	COL																													
01642	19	4	3	3	cl919or	19	4	3	3	6336	2164033	6336	64	64	1	1	-17.5	0	1	5	6	5	5	5	10	-1000.00	1000.0	-5000.0	-0.15	0.35	-25.0	-25.0	7987.0
01643	19	4	3	3	cl919or	19	4	3	3	6336	2164133	6336	64	64	1	1	76.6	0	1	5	6	5	5	10	5	-1000.00	1000.0	-5000.0	-0.15	0.35	-25.0	-25.0	7987.0
01644	19	4	3	3	cl919or	19	4	3	3	6345	2164033	6345	64	64	1	1	31.5	0	1	5	6	5	6	5	10	-1000.00	1000.0	-5000.0	-0.15	0.35	-25.0	-20.0	8108.6
01645	19	4	3	3	cl919or	19	4	3	3	6345	2164133	6345	64	64	1	1	44.1	0	1	5	6	5	6	10	5	-1000.00	1000.0	-5000.0	-0.15	0.35	-25.0	-20.0	8121.2
01646	19	4	3	3	cl919or	19	4	3	3	6437	2164033	6437	64	64	1	1	-34.9	0	1	5	5	5	5	5	10	750.00	1000.0	3000.0	-0.15	-0.35	-25.0	-25.0	6888.0
01647	19	4	3	3	cl919or	19	4	3	3	6651	2164033	6651	64	64	1	1	60.8	0	1	5	6	5	5	5	10	-1000.00	3000.0	-5000.0	-0.15	0.15	-25.0	-30.0	7990.2
01648	19	4	3	3	cl919or	19	4	3	3	6651	2164133	6651	64	64	1	1	-10.0	0	1	5	6	5	5	10	5	-1000.00	3000.0	-5000.0	-0.15	0.15	-25.0	-30.0	7919.3
01649	19	4	3	3	cl919or	19	4	3	3	6659	2164033	6659	64	64	1	1	69.4	0	1	5	6	5	5	5	10	-750.00	3000.0	-5000.0	-0.15	0.15	-25.0	-25.0	7922.9
01650	19	4	3	3	cl919or	19	4	3	3	6659	2164133	6659	64	64	1	1	-13.9	0	1	5	6	5	5	10	5	-750.00	3000.0	-5000.0	-0.15	0.15	-25.0	-25.0	7839.6
01651	19	4	3	3	cl919or	19	4	3	3	6660	2164033	6660	64	64	1	1	-28.8	0	1	5	6	5	5	5	10	-1000.00	3000.0	-5000.0	-0.15	0.15	-25.0	-25.0	8006.2
01652	19	4	3	3	cl919or	19	4	3	3	6771	2164033	6771	64	64	1	1	-81.7	0	1	5	5	5	5	5	10	500.00	3000.0	3000.0	-0.15	-0.15	-25.0	-20.0	7263.9
01653	19	4	3	3	cl919or	19	4	3	3	6771	2164133	6771	64	64	1	1	-31.7	0	1	5	5	5	5	10	5	500.00	3000.0	3000.0	-0.15	-0.15	-25.0	-20.0	7313.9
01654	19	4	3	3	cl919or	19	4	3	3	6821	2164033	6821	64	64	1	1	1.7	0	1	5	6	5	5	5	10	-750.00	3000.0	-5000.0	-0.15	0.25	-25.0	-25.0	7881.2
01655	19	4	3	3	cl919or	19	4	3	3	6821	2164133	6821	64	64	1	1	34.9	0	1	5	6	5	5	10	5	-750.00	3000.0	-5000.0	-0.15	0.25	-25.0	-25.0	7881.2
01656	19	4	3	3	cl919or	19	4	3	3	6829	2164033	6829	64	64	1	1	80.0	0	1	5	6	5	5	5	10	-500.00	3000.0	-5000.0	-0.15	0.25	-25.0	-20.0	7782.1
01657	19	4	3	3	cl919or	19	4	3	3	6829	2164133	6829	64	64	1	1	28.8	0	1	5	6	5	5	10	5	-500.00	3000.0	-5000.0	-0.15	0.25	-25.0	-20.0	7730.9
01658	19	4	3	3	cl919or	19	4	3	3	6849	2164033	6849	64	64	1	1	83.6	0	1	5	5	5	5	5	10	-1000.00	3000.0	-3000.0	-0.15	0.25	-25.0	-25.0	8035.7
01659	19	4	3	3	cl919or	19	4	3	3	6857	2164133	6857	64	64	1	1	43.4	0	1	5	5	5	5	10	5	-750.00	3000.0	-3000.0	-0.15	0.25	-25.0	-20.0	7922.9
01660	19	4	3	3	cl919or	19	4	3	3	6858	2164133	6858	64	64	1	1	-8.6	0	1	5	6	5	5	10	5	-1000.00	3000.0	-3000.0	-0.15	0.25	-25.0	-20.0	8006.2
01661	19	4	3	3	cl919or	19	4	3	3	6959	2164033	6959	64	64	1	1	-8.5	0	1	5	5	5	5	5	10	750.00	3000.0	5000.0	-0.15	-0.25	-25.0	-20.0	7142.9
01662	19	4	3	3	cl919or	19	4	3	3	6959	2164133	6959	64	64	1	1	66.5	0	1	5	5	5	5	10	5	750.00	3000.0	5000.0	-0.15	-0.25	-25.0	-20.0	7217.9
01663	19	4	3	3	cl919or	19	4	3	3	6992	2164033	6992	64	64	1	1	-54.6	0	1	5	6	5	5	5	10	-750.00	3000.0	-5000.0	-0.15	0.35	-25.0	-20.0	7855.9
01664	19	4	3	3	cl919or	19	4	3	3	7011	2164033	7011	64	64	1	1	91.6	0	1	5	5	5	5	5	10	-1000.00	3000.0	-3000.0	-0.15	0.35	-25.0	-25.0	8043.6
01665	19	4	3	3	cl919or	19	4	3	3	7019	2164133	7019	64	64	1	1	24.2	0	1	5	5	5	5	10	5	-750.00	3000.0	-3000.0	-0.15	0.35	-25.0	-20.0	7870.5
01666	19	4	3	3	cl919or	19	4	3	3	7020	2164133	7020	64	64	1	1	-16.7	0	1	5	6	5	5	10	5	-1000.00	3000.0	-3000.0	-0.15	0.35	-25.0	-20.0	8006.2
01667	19	4	3	3	cl919or	19	4	3	3	7121	2164033	7121	64	64	1	1	-5.7	0	1	5	5	5	5	5	10	750.00	3000.0	5000.0	-0.15	-0.35	-25.0	-20.0	7114.8
01668	19	4	3	3	cl919or	19	4	3	3	7121	2164133	7121	64	64	1	1	64.0	0	1	5	5	5	5	10	5	750.00	3000.0	5000.0	-0.15	-0.35	-25.0	-20.0	7184.5
01669	19	4	3	3	cl919or	19	4	3	3	7163	2164133	7163	64	64	1	1	97.4	0	1	4	6	5	5	10	5	-750.00	5000.0	-3000.0	-0.15	0.05	-25.0	-30.0	7959.5
01670	19	4	3	3	cl919or	19	4	3	3	7172	2164033	7172	64	64	1	1	62.4	0	1	4	6	5	5	5	10	-750.00	5000.0	-3000.0	-0.15	0.05	-25.0	-25.0	8027.6
01671	19	4	3	3	cl919or	19	4	3	3	7172	2164133	7172	64	64	1	1	-5.7	0	1	4	6	5	5	10	5	-750.00	5000.0	-3000.0	-0.15	0.05	-25.0	-25.0	7959.5
01672	19	4	3	3	cl919or	19	4	3	3	7180	2164133	7180	64	64	1	1	80.3	0	1	4	6	5	5	10	5	-500.00	5000.0	-3000.0	-0.15	0.05	-25.0	-20.0	7902.8
01673	19	4	3	3	cl919or	19	4	3	3	7297	2164033	7297	64	64	1	1	-7.9	0	1	4	6	5	5	5	10	-500.00	5000.0	-5000.0	-0.15	0.15	-25.0	-30.0	7806.0
01674	19	4	3	3	cl919or	19	4	3	3	7297	2164133	7297	64	64	1	1	42.1	0	1	4	6	5	5	10	5	-500.00	5000.0	-5000.0	-0.15	0.15	-25.0	-30.0	7806.0
01675	19	4	3	3	cl919or	19	4	3	3	7298	2164033	7298	64	64	1	1	-48.5	0	1	4	6	5	5	5	10	-750.00	5000.0	-5000.0	-0.15	0.15	-25.0	-30.0	7862.4
01676	19	4	3	3	cl919or	19	4	3	3	7298	2164133	7298	64	64	1	1	35.2	0	1	4	6	5	5	10	5	-750.00	5000.0	-5000.0	-0.15	0.15	-25.0	-30.0	7862.4
01677	19	4	3	3	cl919or	19	4	3	3	7299	2164033	7299	64	64	1	1	96.9	0	1	4	6	5	5	5	10	-1000.00	5000.0	-5000.0	-0.15	0.15	-25.0	-30.0	8127.8
01678	19	4	3	3	cl919or	19	4	3	3	7299	2164133	7299	64	64	1	1	1.7	0	1	4	6	5	5	10	5	-1000.00	5000.0	-5000.0	-0.15	0.15	-25.0	-30.0	8032.6
01679	19	4	3	3	cl919or	19	4	3	3	7305	2164133	7305	64	64	1	1	28.8	0	1	4	6	5	5	10	5	-250.00	5000.0	-5000.0	-0.15	0.15	-25.0	-25.0	7631.2
01680	19	4	3	3	cl919or	19	4	3	3	7307	2164033	7307	64	64	1	1	55.6	0	1	4	6	5	5	5	10	-750.00	5000.0	-5000.0	-0.15	0.15	-25.0	-25.0	7902.8
01681	19	4	3	3	cl919or	19	4	3	3	7307	2164133	7307	64	64	1	1	84.2	0	1	4	6	5	5	10	5	-750.00	5000.0	-5000.0	-0.15	0.15	-25.0	-25.0	7902.8
01682	19	4	3	3	cl919or	19	4	3	3	7326	2164033	7326	64	64	1	1	75.5	0	1	4	5	5	5	5	10	-1000.00	5000.0	-3000.0	-0.15	0.15	-25.0	-30.0	8027.6
01683	19	4	3	3	cl919or	19	4	3	3	7333	2164033	7333	64	64	1	1	73.5	0	1	4	5	5	5	5	10	-500.00	5000.0	-3000.0	-0.15	0.15	-25.0	-25.0	7862.4
01684	19	4	3	3	cl919or	19	4	3	3	7334	2164133	7334	64	64	1	1	75.7	0	1	4	5	5	5	10	5	-750.00	5000.0	-3000.0	-0.15	0.15	-25.0	-25.0	7902.8
01685	19	4	3	3	cl919or	19	4	3	3	7335	2164033	7335	64	64	1	1	-70.5	0	1	4	6	5	5	5	10	-1000.00	5000.0	-3000.0	-0.15	0.15	-25.0	-25.0	7964.9
01686	19	4	3	3	cl919or	19	4	3	3	7335	2164133	7335	64	64	1	1	-28.8	0	1	4	6	5	5	10	5	-1000.00	5000.0	-3000.0	-0.15	0.15	-25.0	-25.0	7964.9
01687	19	4	3	3	cl919or	19	4	3	3	7342	2164133	7342	64	64	1	1	76.3	0	1	4	5	5	5	10	5	-500.00	5000.0	-3000.0	-0.15	0.15	-25.0	-20.0	7792.8
01688	19	4	3	3	cl919or	19	4	3	3	7343	2164133	7343	64	64	1	1	98.6	0	1	4	6	5	5	10	5	-750.00	5000.0	-3000.0	-0.15	0.15	-25.0	-20.0	7902.8
01689	19	4	3	3	cl919or	19	4	3	3	7344	2164033	7344	64	64	1	1	-26.5	0	1	4	6	5	5	5	10	-1000.00	5000.0	-3000.0	-0.15	0.15	-25.0	-20.0	8027.6
01690	19	4	3	3	cl919or	19	4	3	3	7432	2164033	7432	64	64	1	1	13.4	0	1	5	5	5	5	5	10	-500.00	5000.0	5000.0	-0.15	-0.15	-25.0	-30.0	7714.6
01691	19	4	3	3	cl919or	19	4	3	3	7432	2164133	7432	64	64	1	1	59.3	0	1	5	5	5	5	10	5	-500.00	5000.0	5000.0	-0.15	-0.15	-25.0	-30.0	7714.6
01692	19	4	3	3	cl919or	19	4	3	3	7461	2164033	7461	64	64	1	1	-11.0	0	1	4	6	5	5	5	10	-1000.00	5000.0	-5000.0	-0.15	0.25	-25.0	-30.0	7982.8
01693	19	4	3	3	cl919or	19	4	3	3	7461	2164133	7461	64	64	1	1	30.7	0	1	4	6	5	5	10	5	-1000.00	5000.0	-5000.0	-0.15	0.25	-25.0	-30.0	7982.8
01694	19	4	3	3	cl919or	19	4	3	3	7468	2164033	7468	64	64	1	1	1.1	0	1	4	6	5	5	5	10	-500.00	5000.0	-5000.0	-0.15	0.25	-25.0	-25.0	7815.0
01695	19	4	3	3	cl919or	19	4	3	3	7468	2164133	7468	64	64	1	1	56.8	0	1	4	6	5	5	10	5	-500.00	5000.0	-5000.0	-0.15	0.25	-25.0	-25.0	7815.0
01696	19	4	3	3	cl919or	19	4	3	3	7469	2164033	7469	64	64	1	1	-48.4	0	1	4	6	5	5	5	10	-750.00	5000.0	-5000.0	-0.15	0.25	-25.0	-25.0	7862.4
01697	19	4	3	3	cl919or	19	4	3	3	7469	2164133	7469	64	64	1	1	35.2	0	1	4	6	5	5	10	5	-750.00	5000.0	-5000.0	-0.15	0.25	-25.0	-25.0	7862.4
01698	19	4	3	3	cl919or	19	4	3	3	7477	2164033	7477	64	64	1	1	-38.0	0	1	4	6	5	5	5	10	-500.00	5000.0	-5000.0	-0.15	0.25	-25.0	-20.0	7736.5
01699	19	4	3	3	cl919or	19	4	3	3	7477	2164133	7477	64	64	1	1	-79.2	0	1	4	6	5	5	10	5	-500.00	5000.0	-5000.0	-0.15	0.25	-25.0	-20.0	7695.4
01700	19	4	3	3	cl919or	19	4	3	3	7478	2164133	7478	64	64	1	1	-68.3	0	1	4	6	5	5	10	5	-750.00	5000.0	-5000.0	-0.15	0.25	-25.0	-20.0	7787.6
01701	19	4	3	3	cl919or	19	4	3	3	7504	2164033	7504	64	64	1	1	-7.8	0	1	4	5	5	5	5	10	-500.00	5000.0	-3000.0	-0.15	0.25	-25.0	-20.0	7806.0
01702	19	4	3	3	cl919or	19	4	3	3	7504	2164133	7504	64	64	1	1	22.3	0	1	4	5	5	5	10	5	-500.00	5000.0	-3000.0	-0.15	0.25	-25.0	-20.0	7806.0
01703	19	4	3	3	cl919or	19	4	3	3	7506	2164033	7506	64	64	1	1	-94.3	1	1	4	6	5	5	5	10	-1000.00	5000.0	-3000.0	-0.15	0.25	-25.0	-20.0	7982.8
01704	19	4	3	3	cl919or	19	4	3	3	7603	2164033	7603	64	64	1	1	1.2	0	1	4	5	5	5	5	10	-500.00	5000.0	5000.0	-0.15	-0.25	-25.0	-25.0	7815.0
01705	19	4	3	3	cl919or	19	4	3	3	7603	2164133	7603	64	64	1	1	51.2	0	1	4	5	5	5	10	5	-500.00	5000.0	5000.0	-0.15	-0.25	-25.0	-25.0	7815.0
01706	19	4	3	3	cl919or	19	4	3	3	7630	2164033	7630	64	64	1	1	73.5	0	1	4	6	5	5	5	10	-500.00	5000.0	-5000.0	-0.15	0.35	-25.0	-25.0	7862.4
01707	19	4	3	3	cl919or	19	4	3	3	7631	2164033	7631	64	64	1	1	34.0	0	1	4	6	5	5	5	10	-750.00	5000.0	-5000.0	-0.15	0.35	-25.0	-25.0	7902.8

SEQ NUM	CLS	TBL	ROW	COL																													
01708	19	4	3	3	cl919or	19	4	3	3	7631	2164133	7631	64	64	1	1	75.7	0	1	4	6	5	5	10	5	-750.00	5000.0	-5000.0	-0.15	0.35	-25.0	-25.0	7902.8
01709	19	4	3	3	cl919or	19	4	3	3	7632	2164133	7632	64	64	1	1	-99.1	1	1	4	6	5	5	10	5	-1000.00	5000.0	-5000.0	-0.15	0.35	-25.0	-25.0	7936.3
01710	19	4	3	3	cl919or	19	4	3	3	7639	2164133	7639	64	64	1	1	-23.2	0	1	4	6	5	5	10	5	-500.00	5000.0	-5000.0	-0.15	0.35	-25.0	-20.0	7714.6
01711	19	4	3	3	cl919or	19	4	3	3	7666	2164033	7666	64	64	1	1	65.9	0	1	4	5	5	5	5	10	-500.00	5000.0	-3000.0	-0.15	0.35	-25.0	-20.0	7854.7
01712	19	4	3	3	cl919or	19	4	3	3	7667	2164033	7667	64	64	1	1	27.8	0	1	4	5	5	5	5	10	-750.00	5000.0	-3000.0	-0.15	0.35	-25.0	-20.0	7896.5
01713	19	4	3	3	cl919or	19	4	3	3	7667	2164133	7667	64	64	1	1	69.4	0	1	4	5	5	5	10	5	-750.00	5000.0	-3000.0	-0.15	0.35	-25.0	-20.0	7896.5
01714	19	4	3	3	cl919or	19	4	3	3	7668	2164033	7668	64	64	1	1	-94.3	1	1	4	6	5	5	5	10	-1000.00	5000.0	-3000.0	-0.15	0.35	-25.0	-20.0	7982.8
02171	19	4	4	4	cl919wz	19	4	4	4	291	2165044	291	65	65	1	1	-80.1	0	1	4	4	4	4	5	10	500.00	1000.0	3000.0	-0.05	-0.15	-25.0	-20.0	3417.9
02172	19	4	4	4	cl919wz	19	4	4	4	291	2165144	291	65	65	1	1	-28.8	0	1	4	4	4	4	10	5	500.00	1000.0	3000.0	-0.05	-0.15	-25.0	-20.0	3469.1
02173	19	4	4	4	cl919wz	19	4	4	4	988	2165044	988	65	65	1	1	6.3	0	1	3	5	4	4	5	10	-500.00	3000.0	-5000.0	-0.05	0.25	-25.0	-25.0	3908.3
02174	19	4	4	4	cl919wz	19	4	4	4	988	2165144	988	65	65	1	1	89.6	0	1	3	5	4	4	10	5	-500.00	3000.0	-5000.0	-0.05	0.25	-25.0	-25.0	3908.3
02175	19	4	4	4	cl919wz	19	4	4	4	997	2165044	997	65	65	1	1	-16.5	0	1	3	5	4	4	5	10	-500.00	3000.0	-5000.0	-0.05	0.25	-25.0	-20.0	3886.7
02176	19	4	4	4	cl919wz	19	4	4	4	997	2165144	997	65	65	1	1	-34.2	0	1	3	5	4	4	10	5	-500.00	3000.0	-5000.0	-0.05	0.25	-25.0	-20.0	3869.1
02177	19	4	4	4	cl919wz	19	4	4	4	1159	2165044	1159	65	65	1	1	57.7	0	1	3	5	4	4	5	10	-500.00	3000.0	-5000.0	-0.05	0.35	-25.0	-20.0	3915.4
02178	19	4	4	4	cl919wz	19	4	4	4	1159	2165144	1159	65	65	1	1	41.8	0	1	3	5	4	4	10	5	-500.00	3000.0	-5000.0	-0.05	0.35	-25.0	-20.0	3899.6
02179	19	4	4	4	cl919wz	19	4	4	4	2285	2165044	2285	65	65	1	1	63.1	0	1	4	5	4	5	5	10	-750.00	1000.0	-5000.0	-0.15	0.25	-25.0	-25.0	4073.8
02180	19	4	4	4	cl919wz	19	4	4	4	2807	2165044	2807	65	65	1	1	21.5	0	1	4	5	4	5	5	10	-750.00	3000.0	-3000.0	-0.15	0.15	-25.0	-20.0	4081.2
02181	19	4	4	4	cl919wz	19	4	4	4	2807	2165144	2807	65	65	1	1	82.0	0	1	4	5	4	5	10	5	-750.00	3000.0	-3000.0	-0.15	0.15	-25.0	-20.0	4081.2
02182	19	4	4	4	cl919wz	19	4	4	4	2883	2165144	2883	65	65	1	1	-28.8	0	1	4	3	4	4	10	5	500.00	3000.0	3000.0	-0.15	-0.15	-25.0	-20.0	3469.1
02183	19	4	4	4	cl919wz	19	4	4	4	2933	2165044	2933	65	65	1	1	63.1	0	1	4	5	4	5	5	10	-750.00	3000.0	-5000.0	-0.15	0.25	-25.0	-25.0	4073.8
02184	19	4	4	4	cl919wz	19	4	4	4	3104	2165044	3104	65	65	1	1	-22.0	0	1	4	5	4	5	5	10	-750.00	3000.0	-5000.0	-0.15	0.35	-25.0	-20.0	3990.5
02185	19	4	4	4	cl919wz	19	4	4	4	3104	2165144	3104	65	65	1	1	92.6	0	1	4	5	4	5	10	5	-750.00	3000.0	-5000.0	-0.15	0.35	-25.0	-20.0	4007.1
02186	19	4	4	4	cl919wz	19	4	4	4	3274	2165044	3274	65	65	1	1	41.5	0	1	3	5	4	4	5	10	-500.00	5000.0	-3000.0	-0.15	0.05	-25.0	-30.0	4058.8
02187	19	4	4	4	cl919wz	19	4	4	4	3274	2165144	3274	65	65	1	1	-22.5	0	1	3	5	4	4	10	5	-500.00	5000.0	-3000.0	-0.15	0.05	-25.0	-30.0	3994.9
02188	19	4	4	4	cl919wz	19	4	4	4	3427	2165044	3427	65	65	1	1	94.8	0	1	3	5	4	4	5	10	-500.00	5000.0	-5000.0	-0.15	0.15	-25.0	-20.0	3960.8
02189	19	4	4	4	cl919wz	19	4	4	4	3427	2165144	3427	65	65	1	1	48.6	0	1	3	5	4	4	10	5	-500.00	5000.0	-5000.0	-0.15	0.15	-25.0	-20.0	3914.6
02190	19	4	4	4	cl919wz	19	4	4	4	3544	2165144	3544	65	65	1	1	-61.6	0	1	4	4	4	4	10	5	-500.00	5000.0	5000.0	-0.15	-0.15	-25.0	-30.0	3914.6
02191	19	4	4	4	cl919wz	19	4	4	4	3697	2165144	3697	65	65	1	1	-61.6	0	1	4	4	4	4	10	5	-500.00	5000.0	3000.0	-0.15	-0.25	-25.0	-20.0	3914.6
02192	19	4	4	4	cl919wz	19	4	4	4	3711	2165044	3711	65	65	1	1	-83.0	0	1	4	3	4	4	5	10	500.00	5000.0	5000.0	-0.15	-0.25	-25.0	-25.0	3289.9
02193	19	4	4	4	cl919wz	19	4	4	4	4876	2165044	4876	65	65	1	1	6.2	0	1	5	6	5	5	5	10	-500.00	3000.0	-5000.0	-0.05	0.25	-25.0	-25.0	7708.3
02194	19	4	4	4	cl919wz	19	4	4	4	4876	2165144	4876	65	65	1	1	89.6	0	1	5	6	5	5	10	5	-500.00	3000.0	-5000.0	-0.05	0.25	-25.0	-25.0	7708.3
02195	19	4	4	4	cl919wz	19	4	4	4	4885	2165144	4885	65	65	1	1	-34.2	0	1	5	6	5	5	10	5	-500.00	3000.0	-5000.0	-0.05	0.25	-25.0	-20.0	7669.1
02196	19	4	4	4	cl919wz	19	4	4	4	4969	2165144	4969	65	65	1	1	-40.0	0	1	5	5	5	5	10	5	1000.00	3000.0	3000.0	-0.05	-0.25	-25.0	-30.0	6622.2
02197	19	4	4	4	cl919wz	19	4	4	4	5047	2165044	5047	65	65	1	1	57.6	0	1	5	6	5	5	5	10	-500.00	3000.0	-5000.0	-0.05	0.35	-25.0	-20.0	7715.4
02198	19	4	4	4	cl919wz	19	4	4	4	5047	2165144	5047	65	65	1	1	41.8	0	1	5	6	5	5	10	5	-500.00	3000.0	-5000.0	-0.05	0.35	-25.0	-20.0	7699.6
02199	19	4	4	4	cl919wz	19	4	4	4	5131	2165144	5131	65	65	1	1	-40.0	0	1	5	5	5	5	10	5	1000.00	3000.0	3000.0	-0.05	-0.35	-25.0	-30.0	6622.2
02200	19	4	4	4	cl919wz	19	4	4	4	6695	2165044	6695	65	65	1	1	21.5	0	1	5	6	5	5	5	10	-750.00	3000.0	-3000.0	-0.15	0.15	-25.0	-20.0	7881.2
02201	19	4	4	4	cl919wz	19	4	4	4	6695	2165144	6695	65	65	1	1	82.0	0	1	5	6	5	5	10	5	-750.00	3000.0	-3000.0	-0.15	0.15	-25.0	-20.0	7881.2
02202	19	4	4	4	cl919wz	19	4	4	4	6771	2165044	6771	65	65	1	1	-81.7	0	1	5	5	5	5	5	10	500.00	3000.0	3000.0	-0.15	-0.15	-25.0	-20.0	7263.9
02203	19	4	4	4	cl919wz	19	4	4	4	6771	2165144	6771	65	65	1	1	-31.7	0	1	5	5	5	5	10	5	500.00	3000.0	3000.0	-0.15	-0.15	-25.0	-20.0	7313.9
02204	19	4	4	4	cl919wz	19	4	4	4	6992	2165044	6992	65	65	1	1	-76.4	0	1	5	6	5	5	5	10	-750.00	3000.0	-5000.0	-0.15	0.35	-25.0	-20.0	7736.1
02205	19	4	4	4	cl919wz	19	4	4	4	7162	2165144	7162	65	65	1	1	88.5	0	1	4	5	5	5	10	5	-500.00	5000.0	-3000.0	-0.15	0.05	-25.0	-30.0	7794.9
02206	19	4	4	4	cl919wz	19	4	4	4	7432	2165144	7432	65	65	1	1	-61.6	0	1	5	5	5	5	10	5	-500.00	5000.0	5000.0	-0.15	-0.15	-25.0	-30.0	7714.6

SEQ NUM	CLS	TBL	ROW	COL																															
00117	9	3	3	3	3700.0	3	2	0	0	0	0	0	1	0	-48	28	-4	2	-48.3	-1000.0	0	16	0	16	0	48	9	57	16	64	8	0	0	0	0
00118	9	3	3	3	3700.0	3	2	0	0	0	0	0	1	0	-48	28	-4	2	-48.3	-1000.0	0	16	0	16	0	48	9	57	16	64	8	0	0	0	0
00206	9	4	2	2	7500.0	3	1	0	0	0	0	0	0	1	-61	28	-33	2	5000.0	-4824.2	0	19	0	-12	0	28	-12	33	8	36	18	37	18	40	19
00230	9	4	3	3	3700.0	3	1	0	0	0	0	1	0	1	-61	28	-14	2	2016.7	4732.6	1	-19	0	-18	0	44	9	47	-18	51	-19	61	-19	64	8
00231	9	4	3	3	3700.0	3	2	0	0	0	0	0	0	1	-38	28	-8	2	3438.4	1737.6	1	18	0	18	0	53	18	60	18	62	16	64	8	0	0
00232	9	4	3	3	3700.0	3	2	0	0	0	0	0	0	1	-38	28	-8	2	3438.4	1737.6	1	19	0	18	0	53	18	56	19	59	19	61	19	64	8
00233	9	4	3	3	3700.0	3	2	0	0	0	0	0	0	1	-38	28	-12	2	3824.0	1228.5	1	19	0	18	0	49	18	53	18	54	19	61	19	64	8
00234	9	4	3	3	3700.0	3	1	0	0	0	0	1	0	1	-38	28	-18	2	4408.0	160.1	0	-19	0	-16	0	40	9	43	-16	51	-19	54	-19	61	-19
00235	9	4	3	3	3700.0	3	2	0	0	0	0	0	1	1	-38	28	-12	2	3824.0	-942.5	1	18	0	18	0	48	9	49	18	60	18	61	16	64	8
00236	9	4	3	3	3700.0	3	2	0	0	0	0	0	1	1	-38	28	-12	2	3824.0	-942.5	1	18	0	18	0	48	9	49	18	59	18	60	16	64	8
00237	9	4	3	3	3700.0	3	1	0	0	0	0	1	0	1	-38	28	-18	2	4408.0	160.1	0	-19	0	-16	0	40	9	43	-16	51	-19	54	-19	61	-19
00238	9	4	3	3	3700.0	3	1	0	0	0	0	0	0	1	-38	28	-21	2	4709.0	3000.0	0	-19	0	-13	0	40	-13	41	-16	45	-19	63	-19	64	8
00239	9	4	3	3	3700.0	3	2	0	0	0	0	0	1	1	-38	28	-13	2	3920.3	-1500.0	1	18	0	18	0	46	9	48	18	60	18	61	16	64	8
00240	9	4	3	3	3700.0	3	2	0	0	0	0	0	0	1	-61	28	-9	2	1.5	3568.3	0	18	0	16	0	52	16	53	18	61	16	64	8	0	0
00241	9	4	3	3	3700.0	3	1	0	0	0	0	1	0	1	-48	28	-18	2	3224.0	598.9	0	-18	0	-16	0	40	9	43	-16	45	-18	62	-16	64	8
00242	9	4	3	3	7500.0	3	1	0	0	0	0	0	0	1	-61	28	-33	2	5000.0	-4824.2	0	19	0	-12	0	28	-12	33	8	37	18	38	18	40	19
00270	9	4	4	4	3700.0	3	2	0	0	1	0	0	1	1	-38	28	-10	2	3631.3	-338.1	1	18	0	18	0	34	9	51	18	60	18	62	16	64	8
00271	9	4	4	4	3700.0	3	1	0	0	1	0	1	1	1	-38	28	-25	2	4987.9	-3000.0	1	19	0	18	0	34	9	51	18	53	19	60	19	62	19
00272	9	4	4	4	3700.0	3	2	0	0	1	0	0	1	1	-38	28	-10	2	3631.3	-1200.0	1	18	0	18	0	34	9	51	18	61	18	62	16	64	8
00273	9	4	4	4	3700.0	3	1	0	0	0	0	0	0	1	-38	28	-21	2	4709.0	3000.0	0	-19	0	-13	0	40	-13	41	-16	45	-19	63	-19	64	8
00274	9	4	4	4	3700.0	3	1	0	0	0	0	1	0	1	-38	28	-17	2	4308.7	228.1	0	-19	0	-16	0	41	9	44	-16	51	-19	53	-19	62	-19
00275	9	4	4	4	3700.0	3	2	0	0	1	0	0	1	1	-38	28	-11	2	3727.7	-1500.0	1	18	0	18	0	34	9	50	18	61	18	62	16	64	8
00276	9	4	4	4	3700.0	3	2	0	0	1	0	0	1	1	-38	28	-11	2	3727.7	-1500.0	1	18	0	18	0	34	9	50	18	60	18	61	16	64	8
00277	9	4	4	4	3700.0	3	2	0	0	0	1	0	0	1	-61	28	-9	2	1.5	3568.3	0	18	0	16	0	40	9	52	16	53	18	61	16	64	8
00278	9	4	4	4	3700.0	3	1	0	0	1	0	0	0	1	-48	28	-13	2	1760.9	-3998.9	1	19	0	18	0	34	9	48	18	50	19	61	19	64	8
00279	9	4	4	4	3700.0	3	1	0	0	1	0	1	0	1	-48	28	-11	2	1183.0	-3749.3	1	19	0	18	0	34	9	50	18	52	19	62	19	64	8
00280	9	4	4	4	3700.0	3	1	0	0	1	0	0	0	1	-48	28	-12	2	1472.0	-4496.5	1	19	0	18	0	34	9	49	18	51	19	62	19	64	8
00281	9	4	4	4	3700.0	3	1	0	0	1	0	1	0	1	-48	28	-10	2	893.9	-3598.9	1	19	0	18	0	34	9	51	18	53	19	62	19	64	8
00282	9	4	4	4	3700.0	3	1	0	0	1	0	0	0	1	-48	28	-11	2	1183.0	-4865.0	1	19	0	18	0	34	9	50	18	52	19	62	19	64	8
00283	9	4	4	4	3700.0	3	1	0	0	0	0	1	0	1	-48	28	-18	2	3224.0	598.9	0	-18	0	-16	0	40	9	43	-16	45	-18	62	-16	64	8
00284	9	4	4	4	7500.0	3	2	0	0	1	0	0	1	1	-61	28	-10	2	3631.3	-338.1	1	19	0	18	0	34	9	51	18	53	19	60	19	62	19
00285	9	4	4	4	7500.0	3	2	0	0	1	0	0	1	1	-61	28	-10	2	3631.3	-324.5	1	19	0	18	0	34	9	51	18	53	19	60	19	62	19
00286	9	4	4	4	7500.0	3	2	0	0	1	0	0	1	1	-61	28	-11	2	3727.7	0.0	1	19	0	18	0	34	9	50	18	52	19	61	19	62	19
00287	9	4	4	4	7500.0	3	2	0	0	1	0	0	1	1	-61	28	-11	2	3727.7	0.0	1	19	0	18	0	34	9	50	18	52	19	60	19	61	19
00699	19	4	2	2	3700.0	3	2	0	0	0	1	0	0	1	-61	28	-16	2	210.6	-4603.2	1	18	0	18	0	42	9	45	18	61	16	64	8	0	0
00700	19	4	2	2	3700.0	3	2	0	0	0	0	0	0	1	-61	28	-20	2	609.5	-1968.1	1	18	0	18	0	41	18	61	16	64	8	0	0	0	0
00701	19	4	2	2	3700.0	3	2	0	0	0	1	0	0	1	-61	28	-15	2	118.3	-4536.9	1	19	0	14	0	43	9	46	14	47	18	51	19	61	19
00702	19	4	2	2	3700.0	3	1	0	0	0	0	0	0	1	-61	28	-27	2	1000.0	-3000.0	1	19	0	18	0	34	18	41	19	61	19	64	8	0	0
00703	19	4	2	2	3700.0	3	2	0	0	0	0	0	0	1	-61	28	-21	2	2709.0	-4751.4	1	19	0	18	0	40	18	43	18	44	19	61	19	64	8
00704	19	4	2	2	3700.0	3	1	0	0	0	0	0	0	1	-61	28	-20	2	2609.5	4920.5	1	-19	0	-18	0	41	-18	49	-19	61	-19	64	8	0	0
00705	19	4	2	2	3700.0	3	1	0	0	0	0	1	0	1	-61	28	-17	2	2308.7	5079.1	1	-19	0	-18	0	41	9	44	-18	49	-19	63	-19	64	8
00706	19	4	2	2	3700.0	3	2	0	0	0	0	0	0	1	-61	28	-24	2	2949.7	-3634.8	1	19	0	18	0	37	18	42	18	43	19	62	19	64	8
00707	19	4	2	2	3700.0	3	2	0	0	0	0	0	0	1	-61	28	-24	2	2949.7	-3634.8	1	19	0	18	0	37	18	42	18	43	19	61	19	64	8
00708	19	4	2	2	3700.0	3	2	0	0	0	0	0	0	1	-61	28	-19	2	2508.5	-4459.5	1	19	0	18	0	42	18	51	18	52	19	62	19	64	8
00709	19	4	2	2	3700.0	3	2	0	0	0	0	0	0	1	-61	28	-21	2	2709.0	-4610.3	1	19	0	18	0	40	18	43	19	62	19	64	8	0	0
00710	19	4	2	2	3700.0	3	2	0	0	0	0	0	0	1	-61	28	-20	2	2609.5	-1968.1	1	18	0	18	0	41	18	59	18	61	16	64	8	0	0
00711	19	4	2	2	3700.0	3	2	0	0	0	0	0	0	1	-61	28	-21	2	2709.0	-4536.9	1	19	0	18	0	40	18	50	18	51	19	62	19	64	8
00712	19	4	2	2	3700.0	3	1	0	0	0	0	1	0	1	-61	28	-16	2	2210.6	-4536.9	1	19	0	18	0	44	9	45	18	50	18	51	19	61	19
00713	19	4	2	2	3700.0	3	1	0	0	0	0	0	0	1	-61	28	-20	2	2609.5	-4810.9	1	19	0	18	0	41	18	51	18	52	19	61	19	64	8
00714	19	4	2	2	3700.0	3	1	0	0	0	0	1	0	1	-61	28	-18	2	2408.0	-4899.2	1	19	0	18	0	41	9	43	18	51	18	52	19	62	19
00715	19	4	2	2	3700.0	3	2	0	0	0	0	0	0	1	-44	28	-20	2	4609.5	-4459.5	1	19	0	18	0	41	18	50	18	51	19	61	19	64	8
00716	19	4	2	2	3700.0	3	1	0	0	0	0	0	0	1	-44	28	-24	2	4949.7	-4781.9	1	19	0	18	0	37	18	41	18	42	19	60	19	64	8
00717	19	4	2	2	3700.0	3	1	0	0	0	0	1	0	1	-44	28	-22	2	4803.2	-4871.8	1	19	0	18	0	37	9	39	18	42	19	60	19	61	19
00718	19	4	2	2	3700.0	3	2	0	0	0	0	0	0	1	-44	28	-20	2	4609.5	-1968.1	1	18	0	18	0	41	18	59	18	61	16	64	8	0	0
00719	19	4	2	2	3700.0	3	2	0	0	0	0	0	0	1	-44	28	-21	2	4709.0	-4536.9	1	19	0	18	0	40	18	50	18	51	19	62	19	64	8
00720	19	4	2	2	3700.0	3	1	0	0	0	0	1	0	1	-61	28	-24	2	849.1	1158.5	1	-19	0	-18	0	34	9	37	-18	53	-19	62	-19	64	8
00721	19	4	2	2	3700.0	3	1	0	0	0	0	1	0	1	-61	28	-20	2	75.6	3000.0	1	-19	0	-18	0	38	9	41	-18	55	-19	63	-19	64	8
00722	19	4	2	2	3700.0	3	2	0	0	0	1	0	0	1	-61	28	-19	2	-2.0	-4459.5	1	19	0	14	0	40	9	42	14	43	18	52	19	61	19
00723	19	4	2	2	3700.0	3	2	0	0	0	1	0	0	1	-61	28	-15	2	-20.3	-4603.2	1	19	0	18	0	40	9	46	18	53	19	61	19	64	8
00724	19	4	2	2	3700.0	3	2	0	0	0	1	0	0	1	-61	28	-15	2	-20.3	-4603.2	1	18	0	18	0	40	9	46	18	62	16	64	8	0	0
00725	19	4	2	2	3700.0	3	1	0	0	0	0	0	0	1	-61	28	-24	2	849.1	3000.0	1	-19	0	-18	0	37	-18	52	-19	61	-19	64	8	0	0
00726	19	4	2	2	3700.0	3	2	0	0	0	1	0	0	1	-61	28	-20	2	75.6	-1968.1	1	18	0	18	0	40	9	41	18	61	16	64	8	0	0

SEQ NUM	CLS	TBL	ROW	COL																															
00727	19	4	2	2	3700.0	3	2	0	0	0	1	0	0	1	-61	28	-21	2	215.5	-4536.9	1	19	0	18	0	39	9	40	18	46	19	61	19	64	8
00728	19	4	2	2	3700.0	3	2	0	0	0	1	0	0	1	-61	28	-21	2	215.5	-4536.9	1	19	0	18	0	39	9	40	18	51	19	61	19	64	8
00729	19	4	2	2	3700.0	3	1	0	0	0	0	1	0	1	-61	28	-22	2	420.3	1158.5	1	-19	0	-18	0	36	9	39	-18	49	-19	62	-19	64	8
00730	19	4	2	2	3700.0	3	2	0	0	0	0	0	0	1	-61	28	-17	2	926.0	160.1	1	19	0	18	0	44	18	46	19	61	19	64	8	0	0
00731	19	4	2	2	3700.0	3	1	0	0	0	0	1	0	1	-61	28	-19	2	1525.6	-3431.0	1	18	0	18	0	41	9	42	18	59	18	61	16	64	8
00732	19	4	2	2	3700.0	3	1	0	0	0	0	1	0	1	-61	28	-17	2	926.0	-3603.8	1	19	0	18	0	42	9	44	18	46	19	61	19	64	8
00733	19	4	2	2	3700.0	3	1	0	0	0	0	1	0	1	-61	28	-19	2	1525.6	-4654.3	1	19	0	18	0	40	9	42	18	43	18	44	19	62	19
00734	19	4	2	2	3700.0	3	2	0	0	0	0	0	0	1	-61	28	-17	2	926.0	263.5	1	19	0	18	0	44	18	47	19	61	19	64	8	0	0
00735	19	4	2	2	3700.0	3	1	0	0	0	0	1	0	1	-61	28	-24	2	2849.1	4511.3	1	-19	0	-18	0	34	9	37	-18	47	-19	57	-18	61	-17
00736	19	4	2	2	3700.0	3	1	0	0	0	0	0	0	1	-61	28	-22	2	2409.5	5046.0	1	-19	0	-18	0	39	-18	46	-19	62	-19	64	8	0	0
00737	19	4	2	2	3700.0	3	2	0	0	0	0	0	1	1	-61	28	-17	2	926.0	-944.1	1	19	0	18	0	43	9	44	18	52	19	62	19	64	8
00738	19	4	2	2	3700.0	3	2	0	0	0	0	0	0	1	-61	28	-19	2	1525.6	-3634.8	1	19	0	18	0	42	18	43	18	48	19	63	19	64	8
00739	19	4	2	2	3700.0	3	1	0	0	0	1	1	0	1	-61	28	-12	2	-32.2	-942.5	1	18	0	18	0	46	9	49	18	61	16	64	8	0	0
00740	19	4	2	2	3700.0	3	1	0	0	0	0	0	0	1	-61	28	-17	2	926.0	-4863.1	1	18	0	14	0	44	14	45	18	61	16	64	8	0	0
00741	19	4	2	2	3700.0	3	1	0	0	0	0	1	0	1	-61	28	-15	2	354.9	-4603.2	1	18	0	18	0	44	9	46	18	62	16	64	8	0	0
00742	19	4	2	2	3700.0	3	1	0	0	0	0	0	0	1	-61	28	-19	2	1525.6	-5002.3	1	19	0	18	0	42	18	43	18	53	19	61	19	64	8
00743	19	4	2	2	3700.0	3	1	0	0	0	0	1	0	1	-61	28	-16	2	631.7	-4716.2	1	19	0	18	0	42	9	45	18	53	19	62	19	64	8
00744	19	4	2	2	3700.0	3	1	0	0	0	0	0	0	1	-61	28	-21	2	2127.1	-5072.4	1	19	0	18	0	40	18	42	18	46	19	62	19	64	8
00745	19	4	2	2	3700.0	3	2	0	0	0	0	0	0	1	-61	28	-17	2	926.0	263.5	1	19	0	18	0	44	18	47	19	61	19	64	8	0	0
00746	19	4	2	2	3700.0	3	1	0	0	0	0	0	0	1	-61	28	-20	2	1828.6	4920.5	1	-19	0	-18	0	41	-18	53	-19	61	-19	64	8	0	0
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SEQ NUM	CLS	TBL	ROW	COL																															
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00856	19	4	2	2	7500.0	3	2	0	0	0	0	0	1	1	-61	28	-21	2	4127.1	-614.5	1	19	0	18	0	39	9	40	18	42	18	43	19	61	19
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00858	19	4	2	2	7500.0	3	2	0	0	0	0	0	0	1	-61	28	-20	2	3828.6	-2869.6	1	19	0	18	0	41	18	42	18	48	19	61	19	64	8

SEQ NUM	CLS	TBL	ROW	COL																															
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SEQ NUM	CLS	TBL	ROW	COL																															
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01575	19	4	3	3	3700.0	3	1	0	0	0	0	1	0	1	-48	28	-17	2	2926.0	-351.7	1	19	0	18	0	42	9	44	18	46	19	63	19	64	8

SEQ NUM	CLS	TBL	ROW	COL																															
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01641	19	4	3	3	7500.0	3	1	0	1	0	0	0	0	1	-61	28	-23	2	657.6	3000.0	1	-19	0	-18	0	37	9	38	18	44	-19	62	-19	64	8

SEQ NUM	CLS	TBL	ROW	COL																															
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01704	19	4	3	3	7500.0	3	2	0	0	0	0	0	0	1	-61	28	-15	2	2340.1	550.2	1	19	0	18	0	46	18	48	19	62	19	64	8	0	0
01705	19	4	3	3	7500.0	3	2	0	0	0	0	0	0	1	-61	28	-15	2	2340.1	550.2	1	19	0	18	0	46	18	48	19	61	19	64	8	0	0
01706	19	4	3	3	7500.0	3	2	0	0	0	0	0	1	1	-61	28	-16	2	2631.7	-324.2	1	19	0	18	0	43	9	45	18	47	19	61	19	64	8
01707	19	4	3	3	7500.0	3	2	0	0	0	0	0	1	1	-61	28	-17	2	2926.0	-323.7	1	19	0	18	0	42	9	44	18	46	19	61	19	64	8

SEQ NUM	CLS	TBL	ROW	COL																															
01708	19	4	3	3	7500.0	3	2	0	0	0	0	0	1	1	-61	28	-17	2	2926.0	-323.7	1	19	0	18	0	42	9	44	18	46	19	61	19	64	8
01709	19	4	3	3	7500.0	3	2	0	0	0	0	0	1	1	-61	28	-18	2	3224.0	-938.8	1	19	0	18	0	42	9	43	18	45	18	46	19	63	19
01710	19	4	3	3	7500.0	3	2	0	0	0	0	0	1	1	-61	28	-13	2	1760.9	-938.8	1	19	0	18	0	47	9	48	18	50	18	51	19	62	19
01711	19	4	3	3	7500.0	3	2	0	0	0	0	0	0	1	-61	28	-16	2	2631.7	-1158.5	1	19	0	18	0	45	18	48	18	49	19	61	19	64	8
01712	19	4	3	3	7500.0	3	2	0	0	0	0	0	0	1	-61	28	-17	2	2926.0	-1158.5	1	19	0	18	0	44	18	47	18	48	19	61	19	64	8
01713	19	4	3	3	7500.0	3	2	0	0	0	0	0	0	1	-61	28	-17	2	2926.0	-1158.5	1	19	0	18	0	44	18	47	18	48	19	61	19	64	8
01714	19	4	3	3	7500.0	3	1	0	0	0	0	0	0	1	-61	28	-20	2	3828.6	-3000.0	1	19	0	18	0	41	18	42	18	45	19	63	19	64	8
02171	19	4	4	4	3700.0	3	1	0	1	1	1	0	0	1	-61	28	-16	2	210.6	3000.0	1	-19	0	-18	0	40	9	45	-18	53	-19	61	-19	64	8
02172	19	4	4	4	3700.0	3	1	0	1	1	1	1	0	1	-61	28	-14	2	50.0	2869.6	1	-19	0	-18	0	40	9	47	-18	53	-19	61	-19	64	8
02173	19	4	4	4	3700.0	3	2	0	0	1	0	0	1	1	-61	28	-15	2	2113.4	-550.2	1	19	0	18	0	34	9	46	18	48	19	61	19	64	8
02174	19	4	4	4	3700.0	3	2	0	0	1	0	0	1	1	-61	28	-15	2	2113.4	-550.2	1	19	0	18	0	34	9	46	18	48	19	61	19	64	8
02175	19	4	4	4	3700.0	3	1	0	0	1	0	0	0	1	-61	28	-15	2	2113.4	-4603.2	1	19	0	18	0	34	9	46	18	52	18	53	19	62	19
02176	19	4	4	4	3700.0	3	1	0	0	1	0	1	0	1	-61	28	-14	2	2016.7	-3632.6	1	19	0	18	0	34	9	47	18	52	18	53	19	62	19
02177	19	4	4	4	3700.0	3	1	0	0	1	0	0	0	1	-61	28	-16	2	2210.6	-4536.9	1	19	0	18	0	34	9	45	18	50	18	51	19	61	19
02178	19	4	4	4	3700.0	3	1	0	0	1	0	1	0	1	-61	28	-15	2	2113.4	-4536.9	1	19	0	18	0	34	9	46	18	50	18	51	19	61	19
02179	19	4	4	4	3700.0	3	2	0	0	1	1	0	0	1	-61	28	-19	2	-2.0	-4459.5	1	19	0	14	0	34	9	42	14	43	18	52	19	61	19
02180	19	4	4	4	3700.0	3	2	0	0	1	0	0	0	1	-61	28	-17	2	926.0	-3000.0	1	19	0	18	0	34	9	44	18	46	19	57	18	62	17
02181	19	4	4	4	3700.0	3	2	0	0	1	0	0	0	1	-61	28	-17	2	926.0	-3000.0	1	19	0	18	0	34	9	44	18	46	19	60	19	64	8
02182	19	4	4	4	3700.0	3	1	0	0	0	0	1	0	1	-61	28	-14	2	149.9	2869.6	1	-19	0	-18	0	44	9	47	-18	53	-19	61	-19	64	8
02183	19	4	4	4	3700.0	3	2	0	0	1	0	0	0	1	-61	28	-19	2	1525.6	-4459.5	1	19	0	14	0	34	9	42	14	43	18	51	18	52	19
02184	19	4	4	4	3700.0	3	2	0	0	1	0	0	0	1	-61	28	-17	2	926.0	-4632.6	1	19	0	18	0	34	9	44	18	54	19	62	19	64	8
02185	19	4	4	4	3700.0	3	2	0	0	1	0	0	0	1	-61	28	-17	2	926.0	-4632.6	1	19	0	18	0	34	9	44	18	53	19	61	19	64	8
02186	19	4	4	4	3700.0	3	1	0	0	1	0	0	0	1	-48	28	-16	2	2631.7	-2256.4	1	19	0	18	0	34	9	45	18	47	19	61	19	64	8
02187	19	4	4	4	3700.0	3	1	0	0	1	0	1	0	1	-48	28	-15	2	2340.1	-2256.4	1	19	0	18	0	34	9	46	18	51	18	52	19	62	19
02188	19	4	4	4	3700.0	3	1	0	0	1	0	0	0	1	-48	28	-14	2	2050.1	-4647.7	1	19	0	18	0	34	9	47	18	49	19	61	19	64	8
02189	19	4	4	4	3700.0	3	1	0	0	1	0	1	0	1	-48	28	-13	2	1760.9	-3646.4	1	19	0	18	0	34	9	48	18	50	19	61	19	64	8
02190	19	4	4	4	3700.0	3	2	0	0	0	0	0	0	1	-48	28	-13	2	1760.9	379.5	1	19	0	18	0	48	18	50	19	62	19	64	8	0	0
02191	19	4	4	4	3700.0	3	2	0	0	0	0	0	0	1	-48	28	-13	2	1760.9	351.7	1	19	0	18	0	48	18	50	19	62	19	64	8	0	0
02192	19	4	4	4	3700.0	3	1	0	0	0	0	0	0	1	-48	28	-21	2	4127.1	4610.3	1	-19	0	-12	0	40	-12	42	-13	43	-14	44	-18	48	-19
02193	19	4	4	4	7500.0	3	2	0	0	1	0	0	1	1	-61	28	-15	2	2113.4	-550.2	1	19	0	18	0	34	9	46	18	48	19	61	19	64	8
02194	19	4	4	4	7500.0	3	2	0	0	1	0	0	1	1	-61	28	-15	2	2113.4	-550.2	1	19	0	18	0	34	9	46	18	48	19	61	19	64	8
02195	19	4	4	4	7500.0	3	1	0	0	1	0	1	0	1	-61	28	-32	2	3000.0	-5127.5	1	19	0	18	0	28	9	47	18	52	18	53	19	62	19
02196	19	4	4	4	7500.0	3	1	0	0	0	0	1	0	1	-61	28	-24	2	2949.7	598.9	1	-19	0	-18	0	34	9	37	-18	41	-19	61	-19	64	8
02197	19	4	4	4	7500.0	3	1	0	0	1	0	0	0	1	-61	28	-16	2	2210.6	-4536.9	1	19	0	18	0	34	9	45	18	50	18	51	19	61	19
02198	19	4	4	4	7500.0	3	1	0	0	1	0	1	0	1	-61	28	-15	2	2113.4	-4536.9	1	19	0	18	0	34	9	46	18	50	18	51	19	61	19
02199	19	4	4	4	7500.0	3	1	0	0	0	0	1	0	1	-61	28	-24	2	2949.7	351.7	1	-19	0	-18	0	34	9	37	-18	41	-19	61	-19	64	8
02200	19	4	4	4	7500.0	3	2	0	0	1	0	0	0	1	-61	28	-17	2	926.0	-3000.0	1	19	0	18	0	34	9	44	18	46	19	57	18	62	17
02201	19	4	4	4	7500.0	3	2	0	0	1	0	0	0	1	-61	28	-17	2	926.0	-3000.0	1	19	0	18	0	34	9	44	18	46	19	60	19	64	8
02202	19	4	4	4	7500.0	3	1	0	1	0	0	0	0	1	-61	28	-17	2	926.0	3000.0	1	-18	0	-18	0	43	9	44	-18	61	-16	64	8	0	0
02203	19	4	4	4	7500.0	3	1	0	1	0	0	1	0	1	-61	28	-15	2	354.9	2869.6	1	-18	0	-18	0	43	9	46	-18	62	-16	64	8	0	0
02204	19	4	4	4	7500.0	3	2	0	0	1	0	0	0	1	-61	28	-17	2	926.0	-4632.6	1	18	0	18	0	28	9	44	18	63	16	64	8	0	0
02205	19	4	4	4	7500.0	3	1	0	0	1	0	1	0	1	-61	28	-15	2	2340.1	-2256.4	1	19	0	18	0	34	9	46	18	51	18	52	19	60	19
02206	19	4	4	4	7500.0	3	2	0	0	0	0	0	0	1	-61	28	-13	2	1760.9	379.5	1	19	0	18	0	48	18	50	19	62	19	64	8	0	0

SEQ NUM	CLS	ROW TBL		COL																	
00117	9	3	3	3	0	0	0	0	0	0	0	0	0	0	-9.64	-102.67	2050.11-1802.05	55.00	654.25	479.72	8.73	-48.25	-1.19
00118	9	3	3	3	0	0	0	0	0	0	0	0	0	0	-9.64	-102.67	2050.11-1802.05	55.00	654.25	479.72	8.73	-48.25	-1.19
00206	9	4	2	2	60	19	64	8	0	0	0	0	0	0	699.87	347.41	5000.01-4824.15	38.00	899.66	690.29	690.29	4429.40	2039.99
00230	9	4	3	3	0	0	0	0	0	0	0	0	0	0	56.63	310.48	2408.00 4901.74	51.00	131.07	56.63	60.19	2308.68	1534.86
00231	9	4	3	3	0	0	0	0	0	0	0	0	0	0			3534.86 1737.62	45.00	-375.16	-388.81	-388.81	3438.38	2955.76
00232	9	4	3	3	0	0	0	0	0	0	0	0	0	0			3534.86 1737.62	45.00	-375.29	-389.11	-389.11	3438.38	2955.76
00233	9	4	3	3	0	0	0	0	0	0	0	0	0	0			3920.31 1228.49	45.00	-451.58	-141.55	-141.55	3824.01	3341.86
00234	9	4	3	3	0	0	0	0	0	0	0	0	0	0	462.37	349.38	4803.16 1000.00	52.00	489.92	462.37	635.13	4709.04	3920.31
00235	9	4	3	3	64	8	0	0	0	0	0	0	0	0	-167.10	-302.71	4016.70-1993.49	47.00	750.55	195.69	0.00	3824.01	3341.86
00236	9	4	3	3	0	0	0	0	0	0	0	0	0	0	-167.10	-302.71	4016.70-1993.49	47.00	750.95	195.69	0.00	3824.01	3341.86
00237	9	4	3	3	0	0	0	0	0	0	0	0	0	0	462.05	349.16	4803.16 1000.00	52.00	489.56	462.05	635.01	4709.04	3920.31
00238	9	4	3	3	64	8	0	0	0	0	0	0	0	0	320.03	496.77	4803.16 3000.00	52.00	329.97	320.03	320.03	4709.04	4210.56
00239	9	4	3	3	0	0	0	0	0	0	0	0	0	0	-140.91	-100.84	4210.56-1968.01	46.00	992.05	310.53	121.61	3920.31	3438.38
00240	9	4	3	3	0	0	0	0	0	0	0	0	0	0			1.84 3568.26	40.00	-609.34	-463.90	-463.90	1.50	-0.07
00241	9	4	3	3	0	0	0	0	0	0	0	0	0	0	283.79	514.99	4409.47 3000.00	51.00	386.53	283.79	763.36	4127.13	1760.95
00242	9	4	3	3	61	19	64	8	0	0	0	0	0	0	579.47	332.01	5000.01-4824.15	40.00	899.66	690.29	690.29	4015.79	1543.38
00270	9	4	4	4	0	0	0	0	0	0	0	0	0	0	-138.68	-12.37	5000.00-5098.50	49.00	1431.50	1398.26	-105.21	3631.30	3148.81
00271	9	4	4	4	64	8	0	0	0	0	0	0	0	0	-137.80	70.96	5000.00-3000.00	49.00	798.94	793.72	873.66	3631.30	3148.81
00272	9	4	4	4	0	0	0	0	0	0	0	0	0	0	-138.96	-12.37	5000.00-4829.93	49.00	1312.10	1132.76	0.00	3631.30	3148.81
00273	9	4	4	4	0	0	0	0	0	0	0	0	0	0	320.03	496.77	4803.16 3000.00	52.00	329.97	320.03	320.03	4709.04	4210.56
00274	9	4	4	4	0	0	0	0	0	0	0	0	0	0	396.92	311.39	4709.04 1158.52	52.00	-162.50	396.92	589.31	4609.54	3824.01
00275	9	4	4	4	64	8	0	0	0	0	0	0	0	0	-144.08	-141.97	5000.00-5098.50	48.00	1431.66	1398.41	70.91	3727.68	3245.34
00276	9	4	4	4	0	0	0	0	0	0	0	0	0	0	-144.08	-141.97	5000.00-5098.50	48.00	1431.66	1398.41	70.91	3727.68	3245.34
00277	9	4	4	4	0	0	0	0	0	0	0	0	0	0			420.28 4751.38	40.00	-811.67	-743.80	-463.90	1.50	-0.07
00278	9	4	4	4	0	0	0	0	0	0	0	0	0	0	174.10	-168.28	5000.00-4925.89	49.00	1476.62	1527.85	123.37	1760.95	334.51
00279	9	4	4	4	0	0	0	0	0	0	0	0	0	0	174.10	-168.28	5000.00-4925.89	49.00	1476.62	1527.85	60.86	1760.95	20.33
00280	9	4	4	4	0	0	0	0	0	0	0	0	0	0	166.86	-118.27	5000.00-5007.38	50.00	1317.93	1364.01	0.00	1472.02	137.46
00281	9	4	4	4	0	0	0	0	0	0	0	0	0	0	166.86	-118.27	5000.00-5007.38	50.00	1317.93	1364.01	-42.01	1472.02	-33.94
00282	9	4	4	4	0	0	0	0	0	0	0	0	0	0	216.82	-94.23	5000.00-4925.89	51.00	1085.89	1135.41	0.00	1183.04	20.33
00283	9	4	4	4	0	0	0	0	0	0	0	0	0	0	283.79	514.99	4409.47 3000.00	51.00	386.53	283.79	763.36	4127.13	1760.95
00284	9	4	4	4	64	8	0	0	0	0	0	0	0	0	-138.68	-12.37	5000.01-5098.50	49.00	1431.51	1398.26	-105.21	3631.29	3148.81
00285	9	4	4	4	64	8	0	0	0	0	0	0	0	0	-138.96	-12.37	5000.01-4829.93	49.00	1312.11	1132.76	-106.98	3631.29	3148.81
00286	9	4	4	4	64	8	0	0	0	0	0	0	0	0	-181.58	42.10	5000.01-5098.50	48.00	1431.67	1398.41	-186.59	3727.68	3245.34
00287	9	4	4	4	64	8	0	0	0	0	0	0	0	0	-181.58	42.10	5000.01-5098.50	48.00	1431.67	1398.41	-186.59	3727.68	3245.34
00699	19	4	2	2	0	0	0	0	0	0	0	0	0	0			609.54-4772.66	43.00	775.89	611.81	429.65	210.57	-16.23
00700	19	4	2	2	0	0	0	0	0	0	0	0	0	0			709.04-1968.09	39.00	869.88	0.00	0.00	609.54	118.29
00701	19	4	2	2	64	8	0	0	0	0	0	0	0	0	762.34	86.79	508.53-4781.92	44.00	856.14	698.33	470.32	118.29	-14.48
00702	19	4	2	2	0	0	0	0	0	0	0	0	0	0			1000.00-3000.00	46.00	627.72	601.53	601.53	1000.00	803.15
00703	19	4	2	2	0	0	0	0	0	0	0	0	0	0	202.80	295.01	2803.16-4751.38	38.00	829.83	657.37	657.37	2709.05	2210.56
00704	19	4	2	2	0	0	0	0	0	0	0	0	0	0	202.80	295.01	2709.05 4920.49	47.00	285.83	202.80	202.80	2609.55	2113.35
00705	19	4	2	2	0	0	0	0	0	0	0	0	0	0			2709.05 4920.49	47.00	285.83	202.80	50.22	2609.55	1824.01
00706	19	4	2	2	0	0	0	0	0	0	0	0	0	0			2987.94-3634.77	35.00	1114.61	700.73	700.73	2949.69	2508.53
00707	19	4	2	2	0	0	0	0	0	0	0	0	0	0			2987.94-3634.77	35.00	1114.61	700.73	700.73	2949.69	2508.53
00708	19	4	2	2	0	0	0	0	0	0	0	0	0	0			2609.55-4459.52	39.00	753.53	705.07	705.07	2508.53	2016.70
00709	19	4	2	2	0	0	0	0	0	0	0	0	0	0			2803.16-4610.29	38.00	775.89	616.78	616.78	2709.05	2210.56
00710	19	4	2	2	0	0	0	0	0	0	0	0	0	0			2709.05-1968.09	39.00	982.74	99.41	99.41	2609.55	2113.35
00711	19	4	2	2	0	0	0	0	0	0	0	0	0	0			2803.16-4536.90	38.00	847.45	695.52	695.52	2709.05	2210.56
00712	19	4	2	2	64	8	0	0	0	0	0	0	0	0	745.48	-527.37	2408.00-4781.92	44.00	801.37	745.48	615.16	2308.68	1727.68
00713	19	4	2	2	0	0	0	0	0	0	0	0	0	0	648.85	-189.21	2709.05-4810.91	42.00	823.55	648.85	648.85	2609.55	2113.35
00714	19	4	2	2	64	8	0	0	0	0	0	0	0	0	648.85	-189.21	2709.05-4810.91	42.00	823.55	648.85	594.17	2609.55	1920.31
00715	19	4	2	2	0	0	0	0	0	0	0	0	0	0			4709.04-4459.52	40.00	835.78	693.20	693.20	4609.54	4113.35
00716	19	4	2	2	0	0	0	0	0	0	0	0	0	0	747.25	226.82	4987.94-4781.88	38.00	920.08	747.25	747.25	4949.69	4508.52
00717	19	4	2	2	64	8	0	0	0	0	0	0	0	0	747.25	226.82	4987.94-4781.88	38.00	920.08	747.25	717.17	4949.69	4308.67
00718	19	4	2	2	0	0	0	0	0	0	0	0	0	0			4709.04-1968.09	39.00	921.93	41.98	41.98	4609.54	4113.35
00719	19	4	2	2	0	0	0	0	0	0	0	0	0	0			4803.16-4536.90	38.00	788.64	639.45	639.45	4709.04	4210.56
00720	19	4	2	2	0	0	0	0	0	0	0	0	0	0	83.32	767.22	1000.00 3000.00	46.00	-49.89	-48.71	629.30	1000.00	-2.02
00721	19	4	2	2	0	0	0	0	0	0	0	0	0	0	246.96	407.93	849.07 3000.00	45.00	98.04	20.39	-95.90	657.64	-20.32
00722	19	4	2	2	64	8	0	0	0	0	0	0	0	0	537.77	-321.70	420.28-4687.58	40.00	753.30	661.71	464.28	-2.02	-10.58
00723	19	4	2	2	0	0	0	0	0	0	0	0	0	0	537.77	-321.70	420.28-5072.37	45.00	753.25	718.43	353.09	-20.32	1.84
00724	19	4	2	2	0	0	0	0	0	0	0	0	0	0	186.35	512.50	420.28-5072.37	45.00	753.25	718.43	353.09	-20.32	1.84
00725	19	4	2	2	0	0	0	0	0	0	0	0	0	0			963.81 3000.00	46.00	46.85	0.00	0.00	849.07	-2.02
00726	19	4	2	2	0	0	0	0	0	0	0	0	0	0			420.28-4632.07	39.00	835.48	745.58	-99.66	75.64	-20.32

SEQ NUM	CLS	ROW TBL	COL																				
00727	19	4	2	2	0	0	0	0	0	0	0	0	0	0			657.64-4781.88	38.00	755.23	646.81	455.89	215.52	-31.40
00728	19	4	2	2	0	0	0	0	0	0	0	0	0	0			657.64-4781.88	38.00	755.23	646.81	455.89	215.52	-31.40
00729	19	4	2	2	0	0	0	0	0	0	0	0	0	0	161.79	583.63	1000.00 3000.00	48.00	12.89	0.00	497.99	963.81	-39.09
00730	19	4	2	2	0	0	0	0	0	0	0	0	0	0			1223.99 160.06	38.00	-482.03	-541.07	-541.07	926.03	-32.16
00731	19	4	2	2	0	0	0	0	0	0	0	0	0	0	661.99	-219.98	2127.13-3431.04	41.00	836.05	661.99	562.66	1828.63	149.87
00732	19	4	2	2	0	0	0	0	0	0	0	0	0	0	603.02	-278.35	1828.63-4511.92	43.00	808.88	603.02	148.03	1525.58	-32.16
00733	19	4	2	2	64	8	0	0	0	0	0	0	0	0	746.59	-252.02	2409.48-4925.95	41.00	870.95	746.59	407.33	2127.13	149.87
00734	19	4	2	2	0	0	0	0	0	0	0	0	0	0			1223.99 263.54	38.00	-541.84	-568.70	-568.70	926.03	-32.16
00735	19	4	2	2	64	8	0	0	0	0	0	0	0	0	-45.75	1143.72	3000.00 5045.09	48.00	-33.50	-6.19	208.44	3000.00	1525.58
00736	19	4	2	2	0	0	0	0	0	0	0	0	0	0	134.34	489.71	2657.65 5045.96	49.00	204.88	134.34	134.34	2409.48	926.03
00737	19	4	2	2	0	0	0	0	0	0	0	0	0	0	-399.45	-24.86	1525.58-1997.70	42.00	853.01	60.89	-247.53	926.03	-32.16
00738	19	4	2	2	0	0	0	0	0	0	0	0	0	0			1828.63-3634.78	41.00	771.80	361.96	361.96	1525.58	149.87
00739	19	4	2	2	0	0	0	0	0	0	0	0	0	0	673.90	-585.52	631.69-4483.01	48.00	810.16	646.85	-81.51	149.87	-7.49
00740	19	4	2	2	0	0	0	0	0	0	0	0	0	0	788.10	-549.47	1223.99-4863.09	45.00	818.48	707.45	707.45	926.03	-32.16
00741	19	4	2	2	0	0	0	0	0	0	0	0	0	0	788.10	-549.47	1223.99-4863.09	45.00	818.48	707.45	433.89	926.03	-43.45
00742	19	4	2	2	0	0	0	0	0	0	0	0	0	0	734.30	-425.38	1828.63-5002.31	44.00	793.61	734.30	734.30	1525.58	149.87
00743	19	4	2	2	0	0	0	0	0	0	0	0	0	0	734.30	-425.38	1828.63-5002.31	44.00	793.61	734.30	312.55	1525.58	-48.68
00744	19	4	2	2	0	0	0	0	0	0	0	0	0	0	729.58	-240.36	2409.48-5072.37	43.00	791.63	729.58	729.58	2127.13	631.69
00745	19	4	2	2	0	0	0	0	0	0	0	0	0	0			1223.99 263.54	38.00	-541.88	-568.74	-568.74	926.03	-32.16
00746	19	4	2	2	0	0	0	0	0	0	0	0	0	0	91.27	325.14	2127.13 4920.49	44.00	244.59	91.27	91.27	1828.63	354.86
00747	19	4	2	2	0	0	0	0	0	0	0	0	0	0	91.27	325.14	2127.13 4920.49	44.00	244.59	91.27	0.00	1828.63	-32.16
00748	19	4	2	2	64	8	0	0	0	0	0	0	0	0	-354.70	208.09	2127.13-1968.09	41.00	1257.44	309.13	-33.17	1525.58	149.87
00749	19	4	2	2	0	0	0	0	0	0	0	0	0	0	-354.70	208.09	2127.13-1968.09	41.00	1257.44	309.13	-33.17	1525.58	149.87
00750	19	4	2	2	0	0	0	0	0	0	0	0	0	0	712.15	-508.62	926.03-4536.94	46.00	789.08	610.35	0.00	631.69	-30.39
00751	19	4	2	2	0	0	0	0	0	0	0	0	0	0	733.42	-456.95	1525.58-4899.18	44.00	805.17	688.19	688.19	1223.99	26.31
00752	19	4	2	2	0	0	0	0	0	0	0	0	0	0			1223.99 160.06	38.00	-481.95	-541.05	-541.05	926.03	-32.16
00753	19	4	2	2	0	0	0	0	0	0	0	0	0	0	66.76	554.14	2657.65 5119.97	44.00	205.37	66.76	66.76	2409.48	926.03
00754	19	4	2	2	0	0	0	0	0	0	0	0	0	0	66.76	554.14	2657.65 5119.97	44.00	205.37	66.76	-27.68	2409.48	149.87
00755	19	4	2	2	64	8	0	0	0	0	0	0	0	0	609.46	170.39	4657.64-2869.57	40.00	772.43	609.46	411.71	4409.47	2340.07
00756	19	4	2	2	64	8	0	0	0	0	0	0	0	0	42.27	-701.36	3525.58-2535.16	43.00	1091.77	725.71	546.20	2631.69	1183.04
00757	19	4	2	2	64	8	0	0	0	0	0	0	0	0	732.83	-376.74	3525.58-3431.04	43.00	871.14	732.83	29.29	3223.99	1472.02
00758	19	4	2	2	0	0	0	0	0	0	0	0	0	0			3223.99-3603.81	43.00	798.47	450.53	450.53	2926.03	1472.02
00759	19	4	2	2	0	0	0	0	0	0	0	0	0	0			3223.99-3603.81	43.00	798.47	450.53	450.53	2926.03	1472.02
00760	19	4	2	2	0	0	0	0	0	0	0	0	0	0	711.30	-298.46	3828.63-4654.31	42.00	826.33	711.30	711.30	3525.58	2050.11
00761	19	4	2	2	0	0	0	0	0	0	0	0	0	0	736.40	-128.99	4409.47-5072.37	43.00	798.56	736.40	319.81	4127.13	1760.95
00762	19	4	2	2	64	8	0	0	0	0	0	0	0	0	63.54	94.98	4657.64-1197.70	38.00	1136.30	452.33	152.33	4127.13	2631.69
00763	19	4	2	2	64	8	0	0	0	0	0	0	0	0	79.48	-235.21	3223.99-1197.70	43.00	890.25	360.32	132.20	2631.69	1183.04
00764	19	4	2	2	0	0	0	0	0	0	0	0	0	0			4127.13-2869.57	40.00	775.43	609.48	609.48	3828.63	2340.07
00765	19	4	2	2	64	8	0	0	0	0	0	0	0	0	691.00	-134.39	4127.13-3000.00	43.00	794.75	691.00	405.73	3828.63	1472.02
00766	19	4	2	2	64	8	0	0	0	0	0	0	0	0	746.77	145.28	4849.07-3000.00	41.00	824.87	746.77	444.59	4657.64	2340.07
00767	19	4	2	2	0	0	0	0	0	0	0	0	0	0			4409.47 614.46	38.00	-341.67	-232.39	-232.39	4127.13	2631.69
00768	19	4	2	2	0	0	0	0	0	0	0	0	0	0			1472.02 0.00	36.00	-737.08	-439.42	-439.42	1183.04	20.33
00769	19	4	2	2	0	0	0	0	0	0	0	0	0	0			2340.07 0.00	42.00	-367.05	-312.02	-312.02	2050.11	604.57
00770	19	4	2	2	64	8	0	0	0	0	0	0	0	0	-38.64	120.74	4409.47-1029.13	39.00	1237.24	277.20	20.83	3828.63	2340.07
00771	19	4	2	2	64	8	0	0	0	0	0	0	0	0	-38.64	120.74	4409.47-1029.13	39.00	1237.24	277.20	20.83	3828.63	2340.07
00772	19	4	2	2	0	0	0	0	0	0	0	0	0	0			2926.03-1029.13	43.00	929.35	220.99	220.99	2631.69	1183.04
00773	19	4	2	2	64	8	0	0	0	0	0	0	0	0	-220.60	64.88	3525.58-1997.70	43.00	1158.12	368.36	-82.27	2631.69	1183.04
00774	19	4	2	2	64	8	0	0	0	0	0	0	0	0	-220.60	64.88	3525.58-1997.70	43.00	1158.12	368.36	-82.27	2631.69	1183.04
00775	19	4	2	2	0	0	0	0	0	0	0	0	0	0	668.86	-226.97	3828.63-3634.78	42.00	1076.70	668.86	668.86	3525.58	2050.11
00776	19	4	2	2	0	0	0	0	0	0	0	0	0	0	7.63	-469.38	2050.11-1993.49	47.00	847.32	305.18	63.61	1472.02	137.46
00777	19	4	2	2	0	0	0	0	0	0	0	0	0	0	7.63	-469.38	2050.11-1993.49	47.00	847.32	305.18	63.61	1472.02	137.46
00778	19	4	2	2	0	0	0	0	0	0	0	0	0	0	724.47	-658.10	2631.69-4603.21	46.00	821.06	724.47	724.47	2340.07	893.89
00779	19	4	2	2	64	8	0	0	0	0	0	0	0	0	724.47	-658.10	2631.69-4603.21	46.00	821.06	724.47	427.93	2340.07	604.57
00780	19	4	2	2	0	0	0	0	0	0	0	0	0	0	673.40	-269.13	3828.63-4772.66	43.00	898.80	673.40	673.40	3525.58	2050.11
00781	19	4	2	2	0	0	0	0	0	0	0	0	0	0			4127.13-1158.52	40.00	877.70	194.03	194.03	3828.63	2340.07
00782	19	4	2	2	0	0	0	0	0	0	0	0	0	0			4127.13-1158.52	40.00	877.70	194.03	194.03	3828.63	2340.07
00783	19	4	2	2	0	0	0	0	0	0	0	0	0	0			2926.03-3000.00	44.00	754.04	644.60	644.60	2631.69	1183.04
00784	19	4	2	2	64	8	0	0	0	0	0	0	0	0	689.99	-232.41	3828.63-3000.00	43.00	790.12	689.99	480.90	3525.58	1472.02
00785	19	4	2	2	64	8	0	0	0	0	0	0	0	0	749.69	24.67	4657.64-3000.00	42.00	844.98	749.69	443.01	4409.47	2050.11
00786	19	4	2	2	0	0	0	0	0	0	0	0	0	0	-669.66	847.96	4127.13 550.24	40.00	-369.07	-306.88	-306.88	3828.63	2340.07
00787	19	4	2	2	0	0	0	0	0	0	0	0	0	0	-669.66	847.96	4127.13 550.24	40.00	-369.07	-306.88	-306.88	3828.63	2340.07
00788	19	4	2	2	0	0	0	0	0	0	0	0	0	0	80.14	-102.33	3525.58 -938.76	43.00	792.73	402.81	70.35	2631.69	1183.04
00789	19	4	2	2	64	8	0	0	0	0	0	0	0	0	-120.80	14.08	4127.13-1968.09	42.00	1561.66	618.68	171.74	2926.03	1472.02
00790	19	4	2	2	64	8	0	0	0	0	0	0	0	0	-241.08	-108.91	3828.63-1984.06	41.00	1159.94	296.26	0.00	3223.99	1760.95
00791	19	4	2	2	0	0	0	0	0	0	0	0	0	0	20.13	-282.81	2631.69-1968.01	47.00	1191.04	508.85	178.34	1472.02	137.46
00792	19	4	2	2	0	0	0	0	0	0	0	0	0	0	20.13	-282.81	2631.69-1968.01	47.00	1191.04	508.85	178.34	1472.02	137.46

SEQ NUM	CLS	ROW TBL	COL																				
00793	19	4	2	2	0	0	0	0	0	0	0	0	0	0			2340.07-1984.06	45.00	813.24	206.86	206.86	2050.11	604.57
00794	19	4	2	2	0	0	0	0	0	0	0	0	0	0			2340.07-1984.06	45.00	813.24	206.86	206.86	2050.11	604.57
00795	19	4	2	2	0	0	0	0	0	0	0	0	0	0			2926.03-4632.57	44.00	792.69	692.41	692.41	2631.69	1183.04
00796	19	4	2	2	0	0	0	0	0	0	0	0	0	0			2926.03-4632.57	44.00	792.69	692.41	692.41	2631.69	1183.04
00797	19	4	2	2	0	0	0	0	0	0	0	0	0	0	700.69	-390.70	3525.58-4781.92	43.00	915.71	700.69	700.69	3223.99	1760.95
00798	19	4	2	2	0	0	0	0	0	0	0	0	0	0			4409.47-1158.52	39.00	1029.86	315.83	315.83	4127.13	2631.69
00799	19	4	2	2	0	0	0	0	0	0	0	0	0	0			2926.03-1158.52	44.00	779.85	248.43	248.43	2631.69	1183.04
00800	19	4	2	2	64	8	0	0	0	0	0	0	0	0	739.99	-282.44	3828.63-3000.00	43.00	839.88	739.99	50.32	3525.58	1472.02
00801	19	4	2	2	0	0	0	0	0	0	0	0	0	0	696.01	-33.33	4409.47-3000.00	42.00	799.04	696.01	696.01	4127.13	2631.69
00802	19	4	2	2	0	0	0	0	0	0	0	0	0	0	696.01	-33.33	4409.47-3000.00	42.00	799.04	696.01	398.68	4127.13	1760.95
00803	19	4	2	2	0	0	0	0	0	0	0	0	0	0			3828.63 351.72	40.00	-322.11	-341.13	-341.13	3525.58	2050.11
00804	19	4	2	2	0	0	0	0	0	0	0	0	0	0			3828.63 351.72	40.00	-322.11	-341.13	-341.13	3525.58	2050.11
00805	19	4	2	2	0	0	0	0	0	0	0	0	0	0			709.04-4459.52	39.00	785.78	641.42	641.42	609.54	118.28
00806	19	4	2	2	0	0	0	0	0	0	0	0	0	0			609.54-4772.66	43.00	775.89	611.81	429.64	210.56	-16.23
00807	19	4	2	2	64	8	0	0	0	0	0	0	0	0			508.52-4781.92	44.00	856.13	698.32	470.31	118.28	-14.48
00808	19	4	2	2	0	0	0	0	0	0	0	0	0	0	762.33	86.80	999.99-3000.00	46.00	627.71	601.52	601.52	999.99	803.16
00809	19	4	2	2	0	0	0	0	0	0	0	0	0	0	202.80	295.02	2709.04 4920.49	47.00	285.82	202.80	202.80	2609.54	2113.36
00810	19	4	2	2	0	0	0	0	0	0	0	0	0	0	202.80	295.02	2709.04 4920.49	47.00	285.82	202.80	50.22	2609.54	1824.01
00811	19	4	2	2	0	0	0	0	0	0	0	0	0	0			2987.94-3634.77	35.00	1114.61	700.73	700.73	2949.69	2508.52
00812	19	4	2	2	0	0	0	0	0	0	0	0	0	0			2987.94-3634.77	35.00	1114.61	700.73	700.73	2949.69	2508.52
00813	19	4	2	2	0	0	0	0	0	0	0	0	0	0			2609.54-4459.52	39.00	753.53	705.07	705.07	2508.52	2016.71
00814	19	4	2	2	0	0	0	0	0	0	0	0	0	0			2803.16-4610.29	38.00	775.89	616.77	616.77	2709.04	2210.57
00815	19	4	2	2	0	0	0	0	0	0	0	0	0	0			2709.04-1968.09	39.00	982.74	99.41	99.41	2609.54	2113.36
00816	19	4	2	2	0	0	0	0	0	0	0	0	0	0			2803.16-4536.90	38.00	847.45	695.52	695.52	2709.04	2210.57
00817	19	4	2	2	64	8	0	0	0	0	0	0	0	0	745.48	-527.37	2408.00-4781.92	44.00	801.37	745.48	615.16	2308.68	1727.68
00818	19	4	2	2	0	0	0	0	0	0	0	0	0	0			4709.04-4459.52	40.00	835.79	693.20	693.20	4609.54	4113.36
00819	19	4	2	2	0	0	0	0	0	0	0	0	0	0			4709.04-1968.09	39.00	921.94	41.98	41.98	4609.54	4113.36
00820	19	4	2	2	0	0	0	0	0	0	0	0	0	0			4803.15-4536.90	38.00	788.64	639.45	639.45	4709.04	4210.56
00821	19	4	2	2	0	0	0	0	0	0	0	0	0	0	246.95	407.93	849.07 3000.00	45.00	98.03	20.38	-95.91	657.64	-20.32
00822	19	4	2	2	0	0	0	0	0	0	0	0	0	0	537.76	-321.69	420.28-5072.37	45.00	753.25	718.42	353.09	-20.32	1.84
00823	19	4	2	2	0	0	0	0	0	0	0	0	0	0	537.76	-321.69	420.28-5072.37	45.00	753.25	718.42	353.09	-20.32	1.84
00824	19	4	2	2	0	0	0	0	0	0	0	0	0	0	186.34	512.51	963.80 3000.00	49.00	46.84	0.00	441.01	849.07	-31.40
00825	19	4	2	2	0	0	0	0	0	0	0	0	0	0			657.64-4781.88	38.00	755.22	646.80	455.88	215.52	-31.40
00826	19	4	2	2	0	0	0	0	0	0	0	0	0	0			657.64-4781.88	38.00	755.22	646.80	455.88	215.52	-31.40
00827	19	4	2	2	0	0	0	0	0	0	0	0	0	0	161.78	583.64	999.99 3000.00	48.00	12.88	0.00	497.98	963.80	-39.09
00828	19	4	2	2	0	0	0	0	0	0	0	0	0	0			1223.99 160.06	38.00	-482.02	-541.07	-541.07	926.03	-32.16
00829	19	4	2	2	0	0	0	0	0	0	0	0	0	0	662.00	-219.98	2127.13-3431.04	41.00	836.06	662.00	562.66	1828.63	149.87
00830	19	4	2	2	0	0	0	0	0	0	0	0	0	0	603.02	-278.35	1828.63-4511.92	43.00	808.88	603.02	148.03	1525.58	-32.16
00831	19	4	2	2	64	8	0	0	0	0	0	0	0	0	746.59	-252.02	2409.48-4925.95	41.00	870.95	746.59	407.33	2127.13	149.87
00832	19	4	2	2	0	0	0	0	0	0	0	0	0	0			1223.99 263.54	38.00	-541.84	-568.70	-568.70	926.03	-32.16
00833	19	4	2	2	64	8	0	0	0	0	0	0	0	0	-45.75	1143.72	3000.00 5045.09	48.00	-33.50	-6.19	208.44	3000.00	1525.58
00834	19	4	2	2	0	0	0	0	0	0	0	0	0	0	134.34	489.71	2657.65 5045.96	49.00	204.88	134.34	134.34	2409.48	926.03
00835	19	4	2	2	0	0	0	0	0	0	0	0	0	0	-399.45	-24.86	1525.58-1997.70	42.00	853.01	60.89	-247.53	926.03	-32.16
00836	19	4	2	2	0	0	0	0	0	0	0	0	0	0	-399.45	-24.86	1525.58-1997.70	42.00	853.01	60.89	-247.53	926.03	-32.16
00837	19	4	2	2	0	0	0	0	0	0	0	0	0	0			1828.63-3634.78	41.00	771.80	361.96	361.96	1525.58	149.87
00838	19	4	2	2	0	0	0	0	0	0	0	0	0	0	788.10	-549.47	1223.99-4863.09	45.00	818.49	707.45	707.45	926.03	-32.16
00839	19	4	2	2	0	0	0	0	0	0	0	0	0	0	788.10	-549.47	1223.99-4863.09	45.00	818.49	707.45	433.89	926.03	-43.45
00840	19	4	2	2	0	0	0	0	0	0	0	0	0	0	734.30	-425.38	1828.63-5002.31	44.00	793.61	734.30	734.30	1525.58	149.87
00841	19	4	2	2	0	0	0	0	0	0	0	0	0	0	734.30	-425.38	1828.63-5002.31	44.00	793.61	734.30	312.55	1525.58	-48.68
00842	19	4	2	2	0	0	0	0	0	0	0	0	0	0	729.58	-240.36	2409.48-5072.37	43.00	791.63	729.58	729.58	2127.13	631.69
00843	19	4	2	2	0	0	0	0	0	0	0	0	0	0			1223.99 263.54	38.00	-541.88	-568.74	-568.74	926.03	-32.16
00844	19	4	2	2	0	0	0	0	0	0	0	0	0	0	91.27	325.14	2127.13 4920.49	44.00	244.59	91.27	91.27	1828.63	354.86
00845	19	4	2	2	0	0	0	0	0	0	0	0	0	0	91.27	325.14	2127.13 4920.49	44.00	244.59	91.27	0.00	1828.63	-32.16
00846	19	4	2	2	0	0	0	0	0	0	0	0	0	0	712.15	-508.62	926.03-4536.94	46.00	789.08	610.35	0.00	631.69	-30.39
00847	19	4	2	2	0	0	0	0	0	0	0	0	0	0			1223.99 160.06	38.00	-481.95	-541.05	-541.05	926.03	-32.16
00848	19	4	2	2	0	0	0	0	0	0	0	0	0	0	66.76	554.14	2657.65 5119.97	44.00	205.37	66.76	66.76	2409.48	926.03
00849	19	4	2	2	0	0	0	0	0	0	0	0	0	0	66.76	554.14	2657.65 5119.97	44.00	205.37	66.76	-27.68	2409.48	149.87
00850	19	4	2	2	64	8	0	0	0	0	0	0	0	0	609.47	170.38	4657.65-2869.57	40.00	772.44	609.47	411.71	4409.48	2340.07
00851	19	4	2	2	64	8	0	0	0	0	0	0	0	0	42.28	-701.37	3525.58-2535.16	43.00	1091.77	725.71	546.21	2631.69	1183.04
00852	19	4	2	2	64	8	0	0	0	0	0	0	0	0	732.84	-376.75	3525.58-3431.04	43.00	871.14	732.84	29.30	3223.99	1472.02
00853	19	4	2	2	0	0	0	0	0	0	0	0	0	0			3223.99-3603.81	43.00	798.48	450.54	450.54	2926.03	1472.02
00854	19	4	2	2	0	0	0	0	0	0	0	0	0	0			3223.99-3603.81	43.00	798.48	450.54	450.54	2926.03	1472.02
00855	19	4	2	2	0	0	0	0	0	0	0	0	0	0	711.30	-298.47	3828.62-4654.31	42.00	826.34	711.30	711.30	3525.58	2050.11
00856	19	4	2	2	64	8	0	0	0	0	0	0	0	0	63.55	94.97	4657.65-1197.70	38.00	1136.31	452.34	152.34	4127.13	2631.69
00857	19	4	2	2	64	8	0	0	0	0	0	0	0	0	79.49	-235.21	3223.99-1197.70	43.00	890.25	360.32	132.20	2631.69	1183.04
00858	19	4	2	2	0	0	0	0	0	0	0	0	0	0			4127.13-2869.57	40.00	775.44	609.49	609.49	3828.62	2340.07

SEQ NUM	CLS	ROW TBL	COL																		
00859	19	4	2	2	64	8	0	0	0	0	0	0	0	0	691.00	-134.39	4127.13-3000.00	43.00	794.75	691.00	405.74	3828.62	1472.02
00860	19	4	2	2	64	8	0	0	0	0	0	0	0	0	746.78	145.27	4849.08-3000.00	41.00	824.88	746.78	444.60	4657.65	2340.07
00861	19	4	2	2	0	0	0	0	0	0	0	0	0	0			4409.48 614.46	38.00	-341.66	-232.38	-232.38	4127.13	2631.69
00862	19	4	2	2	0	0	0	0	0	0	0	0	0	0			1472.02 0.00	36.00	-737.07	-439.42	-439.42	1183.04	20.34
00863	19	4	2	2	0	0	0	0	0	0	0	0	0	0			2340.07 0.00	42.00	-367.04	-312.02	-312.02	2050.11	604.57
00864	19	4	2	2	64	8	0	0	0	0	0	0	0	0	-38.64	120.74	4409.48-1029.13	39.00	1237.25	277.20	20.84	3828.62	2340.07
00865	19	4	2	2	64	8	0	0	0	0	0	0	0	0	-38.64	120.74	4409.48-1029.13	39.00	1237.25	277.20	20.84	3828.62	2340.07
00866	19	4	2	2	0	0	0	0	0	0	0	0	0	0			2926.03-1029.13	43.00	929.36	221.00	221.00	2631.69	1183.04
00867	19	4	2	2	0	0	0	0	0	0	0	0	0	0	-220.59	64.87	3525.58-1997.70	43.00	1158.13	368.37	-82.26	2631.69	1183.04
00868	19	4	2	2	0	0	0	0	0	0	0	0	0	0	-220.59	64.87	3525.58-1997.70	43.00	1158.13	368.37	-82.26	2631.69	1183.04
00869	19	4	2	2	0	0	0	0	0	0	0	0	0	0	668.87	-226.97	3828.62-3634.78	42.00	1076.70	668.87	668.87	3525.58	2050.11
00870	19	4	2	2	64	8	0	0	0	0	0	0	0	0	7.64	-469.38	2050.11-1993.49	47.00	847.33	305.19	63.62	1472.02	137.46
00871	19	4	2	2	0	0	0	0	0	0	0	0	0	0	724.48	-658.10	2631.69-4603.21	46.00	821.06	724.48	724.48	2340.07	893.89
00872	19	4	2	2	64	8	0	0	0	0	0	0	0	0	724.48	-658.10	2631.69-4603.21	46.00	821.06	724.48	427.93	2340.07	604.57
00873	19	4	2	2	0	0	0	0	0	0	0	0	0	0	673.41	-269.14	3828.62-4772.66	43.00	898.81	673.41	673.41	3525.58	2050.11
00874	19	4	2	2	0	0	0	0	0	0	0	0	0	0			4127.13-1158.52	40.00	877.70	194.04	194.04	3828.62	2340.07
00875	19	4	2	2	0	0	0	0	0	0	0	0	0	0			4127.13-1158.52	40.00	877.70	194.04	194.04	3828.62	2340.07
00876	19	4	2	2	0	0	0	0	0	0	0	0	0	0			2926.03-3000.00	44.00	754.05	644.61	644.61	2631.69	1183.04
00877	19	4	2	2	64	8	0	0	0	0	0	0	0	0	749.70	24.66	4657.65-3000.00	42.00	844.99	749.70	443.01	4409.48	2050.11
00878	19	4	2	2	0	0	0	0	0	0	0	0	0	0	-669.66	847.95	4127.13 550.24	40.00	-369.07	-306.87	-306.87	3828.62	2340.07
00879	19	4	2	2	0	0	0	0	0	0	0	0	0	0	-669.66	847.95	4127.13 550.24	40.00	-369.07	-306.87	-306.87	3828.62	2340.07
00880	19	4	2	2	0	0	0	0	0	0	0	0	0	0	80.15	-102.34	3525.58 -938.76	43.00	792.74	402.82	70.35	2631.69	1183.04
00881	19	4	2	2	0	0	0	0	0	0	0	0	0	0	-133.30	167.71	4127.13-1968.09	42.00	1561.66	618.69	-40.84	2926.03	1472.02
00882	19	4	2	2	64	8	0	0	0	0	0	0	0	0	-241.08	-108.92	3828.62-1984.06	41.00	1159.95	296.27	0.00	3223.99	1760.94
00883	19	4	2	2	64	8	0	0	0	0	0	0	0	0	7.64	-170.51	2631.69-1968.01	47.00	1191.05	508.86	0.00	1472.02	137.46
00884	19	4	2	2	0	0	0	0	0	0	0	0	0	0			2340.07-1984.06	45.00	813.25	206.87	206.87	2050.11	604.57
00885	19	4	2	2	0	0	0	0	0	0	0	0	0	0			2340.07-1984.06	45.00	813.25	206.87	206.87	2050.11	604.57
00886	19	4	2	2	0	0	0	0	0	0	0	0	0	0			2926.03-4632.57	44.00	792.70	692.42	692.42	2631.69	1183.04
00887	19	4	2	2	0	0	0	0	0	0	0	0	0	0			2926.03-4632.57	44.00	792.70	692.42	692.42	2631.69	1183.04
00888	19	4	2	2	0	0	0	0	0	0	0	0	0	0	700.70	-390.70	3525.58-4781.92	43.00	915.72	700.70	700.70	3223.99	1760.94
00889	19	4	2	2	0	0	0	0	0	0	0	0	0	0			4409.48-1158.52	39.00	1029.86	315.83	315.83	4127.13	2631.69
00890	19	4	2	2	0	0	0	0	0	0	0	0	0	0			2926.03-1158.52	44.00	779.86	248.44	248.44	2631.69	1183.04
00891	19	4	2	2	64	8	0	0	0	0	0	0	0	0	740.00	-282.44	3828.62-3000.00	43.00	839.88	740.00	50.32	3525.58	1472.02
00892	19	4	2	2	0	0	0	0	0	0	0	0	0	0	696.02	-33.34	4409.48-3000.00	42.00	799.04	696.02	696.02	4127.13	2631.69
00893	19	4	2	2	0	0	0	0	0	0	0	0	0	0	696.02	-33.34	4409.48-3000.00	42.00	799.04	696.02	398.69	4127.13	1760.94
00894	19	4	2	2	0	0	0	0	0	0	0	0	0	0			3828.62 351.72	40.00	-322.10	-341.13	-341.13	3525.58	2050.11
00895	19	4	2	2	0	0	0	0	0	0	0	0	0	0			3828.62 351.72	40.00	-322.10	-341.13	-341.13	3525.58	2050.11
01482	19	4	3	3	0	0	0	0	0	0	0	0	0	0			609.54-4459.52	40.00	641.43	593.31	593.31	508.53	49.96
01483	19	4	3	3	0	0	0	0	0	0	0	0	0	0			308.68-4603.21	45.00	658.72	525.21	221.70	49.96	-10.13
01484	19	4	3	3	0	0	0	0	0	0	0	0	0	0			308.68-4603.21	45.00	658.72	525.21	221.70	49.96	-10.13
01485	19	4	3	3	0	0	0	0	0	0	0	0	0	0			210.57-4536.94	45.00	609.68	569.65	-7.32	49.96	-10.13
01486	19	4	3	3	0	0	0	0	0	0	0	0	0	0			210.57-4536.94	45.00	609.68	569.65	-7.32	49.96	-10.13
01487	19	4	3	3	0	0	0	0	0	0	0	0	0	0	710.20	-272.45	709.04-4810.91	43.00	714.86	541.29	541.29	609.54	118.29
01488	19	4	3	3	0	0	0	0	0	0	0	0	0	0	710.20	-272.45	709.04-4810.91	43.00	714.86	541.29	348.95	609.54	-10.72
01489	19	4	3	3	0	0	0	0	0	0	0	0	0	0	43.08	544.69	803.15 5007.44	40.00	-23.61	-100.18	-100.18	709.04	210.57
01490	19	4	3	3	0	0	0	0	0	0	0	0	0	0	43.08	544.69	803.15 5007.44	40.00	-23.61	-100.18	-172.52	709.04	118.29
01491	19	4	3	3	0	0	0	0	0	0	0	0	0	0			2609.55-4511.92	40.00	600.15	455.50	455.50	2508.53	2016.70
01492	19	4	3	3	0	0	0	0	0	0	0	0	0	0			2609.55-4511.92	40.00	600.15	455.50	455.50	2508.53	2016.70
01493	19	4	3	3	0	0	0	0	0	0	0	0	0	0			2308.68-1029.13	43.00	696.25	0.00	0.00	2210.56	1727.68
01494	19	4	3	3	0	0	0	0	0	0	0	0	0	0			2508.53-1997.70	40.00	705.07	47.13	47.13	2408.00	1920.31
01495	19	4	3	3	0	0	0	0	0	0	0	0	0	0			2508.53-1997.70	40.00	705.07	47.13	47.13	2408.00	1920.31
01496	19	4	3	3	0	0	0	0	0	0	0	0	0	0	-130.38	-306.31	2016.70-1993.49	47.00	789.25	233.11	2.64	1824.01	1341.87
01497	19	4	3	3	0	0	0	0	0	0	0	0	0	0	-130.38	-306.31	2016.70-1993.49	47.00	789.25	233.11	2.64	1824.01	1341.87
01498	19	4	3	3	0	0	0	0	0	0	0	0	0	0			2113.35-3632.58	45.00	619.93	351.61	351.61	2016.70	1534.86
01499	19	4	3	3	0	0	0	0	0	0	0	0	0	0			2113.35-3632.58	45.00	619.93	351.61	351.61	2016.70	1534.86
01500	19	4	3	3	0	0	0	0	0	0	0	0	0	0	578.64	-33.29	2803.16-4833.53	43.00	760.55	578.64	578.64	2709.05	2210.56
01501	19	4	3	3	0	0	0	0	0	0	0	0	0	0	578.64	-33.29	2803.16-4833.53	43.00	760.55	578.64	521.21	2709.05	1920.31
01502	19	4	3	3	0	0	0	0	0	0	0	0	0	0	-37.47	721.04	2803.16 4610.29	40.00	-112.04	-18.09	-36.50	2709.05	2113.35
01503	19	4	3	3	64	8	0	0	0	0	0	0	0	0	-428.77	115.13	2709.05-1968.09	40.00	1090.92	170.60	-25.67	2408.00	1920.31
01504	19	4	3	3	64	8	0	0	0	0	0	0	0	0	-428.77	115.13	2709.05-1968.09	40.00	1090.92	170.60	-25.67	2408.00	1920.31
01505	19	4	3	3	0	0	0	0	0	0	0	0	0	0	-106.48	-105.30	2210.56-1968.01	46.00	1031.55	346.33	156.91	1920.31	1438.38
01506	19	4	3	3	0	0	0	0	0	0	0	0	0	0			2113.35-1984.06	45.00	707.32	92.53	92.53	2016.70	1534.86
01507	19	4	3	3	0	0	0	0	0	0	0	0	0	0			2113.35-1984.06	45.00	707.32	92.53	92.53	2016.70	1534.86
01508	19	4	3	3	0	0	0	0	0	0	0	0	0	0	594.17	-299.38	2508.53-4899.18	43.00	654.13	594.17	594.17	2408.00	1920.31
01509	19	4	3	3	0	0	0	0	0	0	0	0	0	0	597.57	33.79	4803.16-4751.38	40.00	769.45	597.57	540.64	4709.04	4113.35

SEQ NUM	CLS	ROW TBL	COL																				
01510	19	4	3	3	0	0	0	0	0	0	0	0	0	0			4308.67-1029.13	42.00	667.80	0.00	0.00	4210.56	3727.68
01511	19	4	3	3	0	0	0	0	0	0	0	0	0	0			4508.52-1997.70	40.00	645.80	21.18	21.18	4407.99	3920.31
01512	19	4	3	3	0	0	0	0	0	0	0	0	0	0			4508.52-1997.70	40.00	645.80	21.18	21.18	4407.99	3920.31
01513	19	4	3	3	0	0	0	0	0	0	0	0	0	0			4803.16-4610.29	39.00	717.17	559.71	559.71	4709.04	4210.56
01514	19	4	3	3	0	0	0	0	0	0	0	0	0	0			4210.56-4603.21	45.00	627.02	584.96	584.96	4113.35	3631.30
01515	19	4	3	3	0	0	0	0	0	0	0	0	0	0			4210.56-4603.21	45.00	627.02	584.96	584.96	4113.35	3631.30
01516	19	4	3	3	0	0	0	0	0	0	0	0	0	0	96.59	610.85	4709.04 5072.37	42.00	105.14	96.59	117.84	4609.54	3920.31
01517	19	4	3	3	0	0	0	0	0	0	0	0	0	0	-455.64	228.08	4709.04-1968.09	40.00	1057.20	142.60	142.60	4609.54	4113.35
01518	19	4	3	3	0	0	0	0	0	0	0	0	0	0			4113.35-1984.06	45.00	673.59	60.41	60.41	4016.70	3534.86
01519	19	4	3	3	0	0	0	0	0	0	0	0	0	0	582.79	-73.02	4709.04-4810.91	43.00	758.43	582.79	582.79	4609.54	4113.35
01520	19	4	3	3	0	0	0	0	0	0	0	0	0	0	-49.39	756.24	4709.04 5083.89	42.00	27.36	-44.29	41.56	4609.54	3920.31
01521	19	4	3	3	64	8	0	0	0	0	0	0	0	0			215.52-4459.52	40.00	661.71	504.60	464.28	-2.02	-10.58
01522	19	4	3	3	0	0	0	0	0	0	0	0	0	0			657.64-4871.80	39.00	686.78	575.66	313.45	75.64	-20.32
01523	19	4	3	3	0	0	0	0	0	0	0	0	0	0			657.64-4871.80	39.00	686.78	575.66	313.45	75.64	-20.32
01524	19	4	3	3	64	8	0	0	0	0	0	0	0	0	659.02	-321.70	75.64-4772.66	45.00	640.03	483.72	450.73	-20.32	1.84
01525	19	4	3	3	0	0	0	0	0	0	0	0	0	0	659.02	-321.70	75.64-4772.66	45.00	640.03	483.72	450.73	-20.32	1.84
01526	19	4	3	3	64	8	0	0	0	0	0	0	0	0	592.52	-204.12	657.64-5148.17	41.00	682.77	563.01	308.38	-34.13	-3.85
01527	19	4	3	3	64	8	0	0	0	0	0	0	0	0			420.28-4536.90	39.00	646.81	455.89	393.39	75.64	-20.32
01528	19	4	3	3	64	8	0	0	0	0	0	0	0	0			420.28-4536.90	39.00	646.81	455.89	393.39	75.64	-20.32
01529	19	4	3	3	0	0	0	0	0	0	0	0	0	0			-39.09-4536.94	45.00	650.66	550.54	-22.51	-10.58	1.50
01530	19	4	3	3	0	0	0	0	0	0	0	0	0	0			-39.09-4536.94	45.00	650.66	550.54	-22.51	-10.58	1.50
01531	19	4	3	3	0	0	0	0	0	0	0	0	0	0	533.20	0.96	2409.48-3461.35	40.00	715.00	533.20	533.20	2127.13	631.69
01532	19	4	3	3	64	8	0	0	0	0	0	0	0	0	533.20	0.96	2409.48-3461.35	40.00	715.00	533.20	431.05	2127.13	354.86
01533	19	4	3	3	0	0	0	0	0	0	0	0	0	0	541.22	-250.87	1525.58-4511.92	44.00	603.02	495.73	495.73	1223.99	26.31
01534	19	4	3	3	0	0	0	0	0	0	0	0	0	0	541.22	-250.87	1525.58-4511.92	44.00	603.02	495.73	65.47	1223.99	-48.68
01535	19	4	3	3	0	0	0	0	0	0	0	0	0	0	522.70	-113.69	2127.13-4654.31	42.00	746.59	522.70	522.70	1828.63	354.86
01536	19	4	3	3	0	0	0	0	0	0	0	0	0	0	124.81	261.03	1223.99 3000.00	46.00	116.10	25.11	-63.61	926.03	-30.39
01537	19	4	3	3	0	0	0	0	0	0	0	0	0	0	143.02	218.50	1525.58 5079.09	45.00	242.77	106.88	43.05	926.03	-32.16
01538	19	4	3	3	0	0	0	0	0	0	0	0	0	0	-166.80	-3.01	149.87-1993.49	48.00	684.96	122.71	-170.85	-48.68	-1.49
01539	19	4	3	3	0	0	0	0	0	0	0	0	0	0	-166.80	-3.01	149.87-1993.49	48.00	684.96	122.71	-170.85	-48.68	-1.49
01540	19	4	3	3	0	0	0	0	0	0	0	0	0	0			2409.48-3000.00	39.00	691.09	565.15	565.15	2127.13	631.69
01541	19	4	3	3	0	0	0	0	0	0	0	0	0	0	585.11	-41.37	2409.48-3000.00	44.00	687.58	585.11	289.21	2127.13	26.31
01542	19	4	3	3	64	8	0	0	0	0	0	0	0	0	534.34	207.04	2849.07-3000.00	41.00	611.83	534.34	234.11	2657.65	354.86
01543	19	4	3	3	0	0	0	0	0	0	0	0	0	0	-54.18	478.25	1828.63 5002.31	45.00	91.27	-15.06	-15.06	1525.58	149.87
01544	19	4	3	3	0	0	0	0	0	0	0	0	0	0			2409.48-1158.52	39.00	717.14	0.00	0.00	2127.13	631.69
01545	19	4	3	3	0	0	0	0	0	0	0	0	0	0	531.95	-79.80	2127.13-3000.00	44.00	634.90	531.95	-190.69	1828.63	-32.16
01546	19	4	3	3	64	8	0	0	0	0	0	0	0	0	583.90	157.14	2849.07-3000.00	41.00	661.37	583.90	283.72	2657.65	354.86
01547	19	4	3	3	0	0	0	0	0	0	0	0	0	0	430.48	88.63	4127.13-4634.62	41.00	653.82	430.48	430.48	3828.63	2340.07
01548	19	4	3	3	64	8	0	0	0	0	0	0	0	0	430.48	88.63	4127.13-4634.62	41.00	653.82	430.48	380.09	3828.63	2050.11
01549	19	4	3	3	64	8	0	0	0	0	0	0	0	0	631.10	216.79	4849.07-4839.32	41.00	861.79	631.10	398.20	4657.64	2340.07
01550	19	4	3	3	0	0	0	0	0	0	0	0	0	0	-87.77	-271.14	2631.69-1834.49	47.00	606.17	388.85	176.56	1472.02	137.46
01551	19	4	3	3	0	0	0	0	0	0	0	0	0	0	-87.77	-271.14	2631.69-1834.49	47.00	606.17	388.85	176.56	1472.02	137.46
01552	19	4	3	3	64	8	0	0	0	0	0	0	0	0	588.76	-23.54	4127.13-2880.95	41.00	712.30	588.76	319.00	3828.63	2050.11
01553	19	4	3	3	64	8	0	0	0	0	0	0	0	0	501.91	-259.66	2631.69-2778.79	47.00	630.04	501.91	343.11	2340.07	334.51
01554	19	4	3	3	0	0	0	0	0	0	0	0	0	0	507.16	162.18	4409.47-2869.57	41.00	609.46	507.16	507.16	4127.13	2631.69
01555	19	4	3	3	64	8	0	0	0	0	0	0	0	0	507.16	162.18	4409.47-2869.57	41.00	609.46	507.16	311.59	4127.13	2050.11
01556	19	4	3	3	0	0	0	0	0	0	0	0	0	0	543.13	15.25	4127.13-3000.00	43.00	647.00	543.13	256.62	3828.63	1472.02
01557	19	4	3	3	64	8	0	0	0	0	0	0	0	0	504.90	273.76	4657.64-3000.00	41.00	600.31	504.90	197.25	4409.47	2050.11
01558	19	4	3	3	0	0	0	0	0	0	0	0	0	0			3828.63 474.42	40.00	-152.50	-80.28	-80.28	3525.58	2050.11
01559	19	4	3	3	64	8	0	0	0	0	0	0	0	0	-25.49	-155.84	2631.69-1328.11	45.00	648.80	264.61	37.72	2050.11	604.57
01560	19	4	3	3	64	8	0	0	0	0	0	0	0	0	-25.49	-155.84	2631.69-1328.11	45.00	648.80	264.61	37.72	2050.11	604.57
01561	19	4	3	3	0	0	0	0	0	0	0	0	0	0	-167.23	64.76	3223.99-1061.97	43.00	732.83	101.12	-71.90	2631.69	1183.04
01562	19	4	3	3	0	0	0	0	0	0	0	0	0	0	597.26	-146.73	3828.63-3461.35	42.00	740.86	597.26	597.26	3525.58	2050.11
01563	19	4	3	3	64	8	0	0	0	0	0	0	0	0	597.26	-146.73	3828.63-3461.35	42.00	740.86	597.26	231.12	3525.58	1760.95
01564	19	4	3	3	0	0	0	0	0	0	0	0	0	0	495.64	-329.39	2340.07-3461.36	47.00	613.45	495.64	495.64	2050.11	604.57
01565	19	4	3	3	64	8	0	0	0	0	0	0	0	0	495.64	-329.39	2340.07-3461.36	47.00	613.45	495.64	220.38	2050.11	334.51
01566	19	4	3	3	0	0	0	0	0	0	0	0	0	0			3223.99-3603.81	43.00	798.47	450.53	450.53	2926.03	1472.02
01567	19	4	3	3	0	0	0	0	0	0	0	0	0	0			3223.99-3603.81	43.00	798.47	450.53	450.53	2926.03	1472.02
01568	19	4	3	3	0	0	0	0	0	0	0	0	0	0	411.86	-348.35	1760.95-3610.76	50.00	659.36	396.28	396.28	1472.02	137.46
01569	19	4	3	3	0	0	0	0	0	0	0	0	0	0	411.86	-348.35	1760.95-3610.76	50.00	659.36	396.28	233.17	1472.02	-33.94
01570	19	4	3	3	0	0	0	0	0	0	0	0	0	0	471.76	-406.38	2631.69-4647.74	47.00	650.24	471.76	230.15	2340.07	334.51
01571	19	4	3	3	0	0	0	0	0	0	0	0	0	0	540.04	-141.55	3828.63-5144.68	43.00	669.29	540.04	270.22	3525.58	1472.02
01572	19	4	3	3	64	8	0	0	0	0	0	0	0	0	63.54	94.98	4657.64-1197.70	38.00	1136.30	452.33	152.33	4127.13	2631.69
01573	19	4	3	3	64	8	0	0	0	0	0	0	0	0	133.94	-235.21	3223.99-1197.70	43.00	996.82	437.06	196.73	2631.69	1183.04
01574	19	4	3	3	0	0	0	0	0	0	0	0	0	0	348.95	236.68	3828.63-1158.52	43.00	920.05	348.95	348.95	3525.58	2050.11
01575	19	4	3	3	0	0	0	0	0	0	0	0	0	0	348.95	236.68	3828.63-1158.52	43.00	920.05	348.95	-34.38	3525.58	1472.02

SEQ NUM	CLS	ROW TBL	COL																						
01576	19	4	3	3	0	0	0	0	0	0	0	0	0	0			3828.63-2869.57	41.00	609.48	510.30	510.30	3525.58	2050.11
01577	19	4	3	3	0	0	0	0	0	0	0	0	0	0			3828.63-2869.57	41.00	609.48	510.30	510.30	3525.58	2050.11
01578	19	4	3	3	0	0	0	0	0	0	0	0	0	0	333.92	-136.83	2340.07-1158.52	48.00	826.55	333.92	32.45	2050.11	137.46
01579	19	4	3	3	0	0	0	0	0	0	0	0	0	0	522.66	-281.57	2631.69-2869.57	46.00	655.21	522.66	522.66	2340.07	893.89
01580	19	4	3	3	64	8	0	0	0	0	0	0	0	0	522.66	-281.57	2631.69-2869.57	46.00	655.21	522.66	449.34	2340.07	604.57
01581	19	4	3	3	64	8	0	0	0	0	0	0	0	0	590.63	-132.48	3828.63-3000.00	43.00	691.00	590.63	405.73	3525.58	1472.02
01582	19	4	3	3	0	0	0	0	0	0	0	0	0	0	548.35	116.25	4409.47-3000.00	43.00	651.43	548.35	548.35	4127.13	2631.69
01583	19	4	3	3	64	8	0	0	0	0	0	0	0	0	518.31	272.36	4409.47-1000.00	42.00	621.07	518.31	52.75	4127.13	1760.95
01584	19	4	3	3	0	0	0	0	0	0	0	0	0	0			2050.11 379.48	42.00	-309.20	-308.90	-308.90	1760.95	334.51
01585	19	4	3	3	0	0	0	0	0	0	0	0	0	0			2050.11 379.48	42.00	-309.20	-308.92	-308.92	1760.95	334.51
01586	19	4	3	3	64	8	0	0	0	0	0	0	0	0	-138.61	311.00	4409.47-1029.13	40.00	1237.24	277.20	20.83	3828.63	2340.07
01587	19	4	3	3	64	8	0	0	0	0	0	0	0	0	-138.61	311.00	4409.47-1029.13	40.00	1237.24	277.20	20.83	3828.63	2340.07
01588	19	4	3	3	0	0	0	0	0	0	0	0	0	0	86.36	-220.50	3223.99 -944.12	47.00	958.92	571.47	242.85	1472.02	137.46
01589	19	4	3	3	0	0	0	0	0	0	0	0	0	0	86.36	-220.50	3223.99 -944.12	47.00	958.92	571.47	242.85	1472.02	137.46
01590	19	4	3	3	0	0	0	0	0	0	0	0	0	0	-25.26	-39.38	2926.03-1029.13	45.00	1051.31	293.72	0.00	2050.11	604.57
01591	19	4	3	3	0	0	0	0	0	0	0	0	0	0	-25.26	-39.38	2926.03-1029.13	45.00	1051.31	293.72	0.00	2050.11	604.57
01592	19	4	3	3	0	0	0	0	0	0	0	0	0	0	-166.38	64.88	3525.58-1997.70	43.00	1158.12	459.20	-82.27	2631.69	1183.04
01593	19	4	3	3	0	0	0	0	0	0	0	0	0	0	557.77	-395.68	2340.07-3632.58	48.00	871.44	557.77	557.77	2050.11	604.57
01594	19	4	3	3	0	0	0	0	0	0	0	0	0	0			2631.69-4483.01	45.00	609.30	441.08	441.08	2340.07	893.89
01595	19	4	3	3	0	0	0	0	0	0	0	0	0	0			2631.69-1158.52	45.00	756.29	226.73	226.73	2340.07	893.89
01596	19	4	3	3	0	0	0	0	0	0	0	0	0	0			2631.69-1158.52	45.00	756.29	226.73	226.73	2340.07	893.89
01597	19	4	3	3	0	0	0	0	0	0	0	0	0	0	595.15	-229.20	3525.58-3000.00	44.00	689.99	595.15	595.15	3223.99	1760.95
01598	19	4	3	3	0	0	0	0	0	0	0	0	0	0	595.15	-229.20	3525.58-3000.00	44.00	689.99	595.15	24.19	3223.99	1183.04
01599	19	4	3	3	0	0	0	0	0	0	0	0	0	0	543.00	15.26	4127.13-3000.00	43.00	646.65	543.00	543.00	3828.63	2340.07
01600	19	4	3	3	64	8	0	0	0	0	0	0	0	0	518.22	272.35	4409.47-1000.00	42.00	620.99	518.22	53.04	4127.13	1760.95
01601	19	4	3	3	0	0	0	0	0	0	0	0	0	0			2050.11 351.72	46.00	-293.61	-303.29	303.29	1760.95	334.51
01602	19	4	3	3	61	-19	64	8	0	0	0	0	0	0	95.18	700.52	4409.47 4610.29	49.00	70.30	95.18	95.18	4127.13	2631.69
01603	19	4	3	3	0	0	0	0	0	0	0	0	0	0			2050.11 0.00	45.00	-236.39	-183.03	-183.03	1760.95	334.51
01604	19	4	3	3	0	0	0	0	0	0	0	0	0	0	136.54	-212.96	2631.69-1500.00	47.00	668.62	590.48	135.42	1472.02	137.46
01605	19	4	3	3	0	0	0	0	0	0	0	0	0	0	134.68	-102.33	3525.58 -938.76	43.00	883.59	475.68	129.20	2631.69	1183.04
01606	19	4	3	3	64	8	0	0	0	0	0	0	0	0	-331.33	226.31	3828.63-1984.06	42.00	1159.94	296.26	0.00	3223.99	1760.95
01607	19	4	3	3	0	0	0	0	0	0	0	0	0	0	323.68	8.99	2926.03-1158.52	45.00	889.93	323.68	323.68	2631.69	1183.04
01608	19	4	3	3	64	8	0	0	0	0	0	0	0	0	323.68	8.99	2926.03-1158.52	45.00	889.93	323.68	105.31	2631.69	893.89
01609	19	4	3	3	0	0	0	0	0	0	0	0	0	0	592.46	-34.65	4127.13-3000.00	43.00	696.01	592.46	592.46	3828.63	2340.07
01610	19	4	3	3	64	8	0	0	0	0	0	0	0	0	534.85	255.68	4409.47-1000.00	42.00	637.62	534.85	0.00	4127.13	1760.95
01611	19	4	3	3	0	0	0	0	0	0	0	0	0	0			3828.63 474.42	40.00	-151.82	-79.70	-79.70	3525.58	2050.11
01612	19	4	3	3	0	0	0	0	0	0	0	0	0	0			2050.11 228.15	45.00	-240.24	-278.74	-278.74	1760.95	334.51
01613	19	4	3	3	64	8	0	0	0	0	0	0	0	0			408.00-4863.09	44.00	619.38	562.58	382.74	118.28	-14.48
01614	19	4	3	3	0	0	0	0	0	0	0	0	0	0			408.00-4863.09	44.00	619.38	562.58	382.74	118.28	-14.48
01615	19	4	3	3	64	8	0	0	0	0	0	0	0	0	491.42	-162.75	999.99-4824.15	28.00	694.00	487.12	487.12	-55.25	0.11
01616	19	4	3	3	0	0	0	0	0	0	0	0	0	0	-49.18	899.52	999.99 3000.00	49.00	-207.26	-181.17	911.46	999.99	508.52
01617	19	4	3	3	64	8	0	0	0	0	0	0	0	0			308.67-4536.94	44.00	643.86	515.24	470.31	118.28	-14.48
01618	19	4	3	3	0	0	0	0	0	0	0	0	0	0			2508.52-1997.70	40.00	705.07	0.00	0.00	2408.00	1920.32
01619	19	4	3	3	0	0	0	0	0	0	0	0	0	0			2508.52-1997.70	40.00	705.07	0.00	0.00	2408.00	1920.32
01620	19	4	3	3	0	0	0	0	0	0	0	0	0	0	529.13	-381.71	2308.68-4603.21	45.00	664.12	529.13	529.13	2210.57	1727.68
01621	19	4	3	3	0	0	0	0	0	0	0	0	0	0	529.13	-381.71	2308.68-4603.21	45.00	664.12	529.13	478.15	2210.57	1631.30
01622	19	4	3	3	0	0	0	0	0	0	0	0	0	0	177.70	959.16	3000.00 3000.00	49.00	177.70	177.70	1151.34	3000.00	2508.52
01623	19	4	3	3	0	0	0	0	0	0	0	0	0	0	-469.35	115.13	2709.04-1968.09	40.00	982.74	99.41	-153.90	2508.52	2016.71
01624	19	4	3	3	0	0	0	0	0	0	0	0	0	0	-469.35	115.13	2709.04-1968.09	40.00	982.74	99.41	-153.90	2508.52	2016.71
01625	19	4	3	3	0	0	0	0	0	0	0	0	0	0			2210.57-4536.94	45.00	615.16	566.51	566.51	2113.36	1631.30
01626	19	4	3	3	0	0	0	0	0	0	0	0	0	0			2210.57-4536.94	45.00	615.16	566.51	566.51	2113.36	1631.30
01627	19	4	3	3	0	0	0	0	0	0	0	0	0	0	152.70	984.15	3000.00 3000.00	49.00	127.70	152.70	1240.90	3000.00	2508.52
01628	19	4	3	3	0	0	0	0	0	0	0	0	0	0			4408.00-3634.78	41.00	609.58	522.29	522.29	4308.68	3824.00
01629	19	4	3	3	0	0	0	0	0	0	0	0	0	0			4508.53-1997.70	40.00	645.81	0.00	0.00	4408.00	3920.31
01630	19	4	3	3	0	0	0	0	0	0	0	0	0	0			4508.53-1997.70	40.00	645.81	0.00	0.00	4408.00	3920.31
01631	19	4	3	3	64	8	0	0	0	0	0	0	0	0	592.78	-405.23	5000.01-5053.98	44.00	856.86	904.26	1119.65	4308.68	3727.68
01632	19	4	3	3	0	0	0	0	0	0	0	0	0	0	-526.15	228.07	4709.04-1968.09	40.00	921.94	41.98	41.98	4609.54	4113.36
01633	19	4	3	3	0	0	0	0	0	0	0	0	0	0			4308.68-4536.94	44.00	673.56	542.86	542.86	4210.56	3727.68
01634	19	4	3	3	0	0	0	0	0	0	0	0	0	0			4308.68-4536.94	44.00	673.56	542.86	542.86	4210.56	3727.68
01635	19	4	3	3	0	0	0	0	0	0	0	0	0	0	-312.81	-64.54	849.07-1997.81	37.00	1161.28	166.29	0.00	-0.06	0.52
01636	19	4	3	3	0	0	0	0	0	0	0	0	0	0			657.64-4871.80	39.00	686.77	575.65	313.44	75.64	-20.32
01637	19	4	3	3	0	0	0	0	0	0	0	0	0	0			657.64-4871.80	39.00	686.77	575.65	313.44	75.64	-20.32
01638	19	4	3	3	64	8	0	0	0	0	0	0	0	0	537.76	-321.69	75.64-4772.66	45.00	640.02	483.71	353.09	-20.32	1.84
01639	19	4	3	3	0	0	0	0	0	0	0	0	0	0	537.76	-321.69	75.64-4772.66	45.00	640.02	483.71	353.09	-20.32	1.84
01640	19	4	3	3	64	8	0	0	0	0	0	0	0	0	746.71	275.10	999.99-4824.15	41.00	750.65	543.83	543.83	-49.70	-5.07
01641	19	4	3	3	0	0	0	0	0	0	0	0	0	0	147.08	507.48	963.80 3000.00	50.00	46.84	0.00	-25.89	657.64	-34.13

SEQ NUM	CLS	ROW TBL	COL																				
01642	19	4	3	3	64	8	0	0	0	0	0	0	0	0			420.28-4536.90	39.00	646.80	455.88	393.38	75.64	-20.32
01643	19	4	3	3	64	8	0	0	0	0	0	0	0	0			420.28-4536.90	39.00	646.80	455.88	393.38	75.64	-20.32
01644	19	4	3	3	0	0	0	0	0	0	0	0	0	0	741.55	275.38	999.99-5007.29	28.00	485.11	538.50	538.50	999.99	999.99
01645	19	4	3	3	0	0	0	0	0	0	0	0	0	0	741.55	275.38	999.99-5007.29	28.00	485.11	538.50	586.18	999.99	999.99
01646	19	4	3	3	0	0	0	0	0	0	0	0	0	0	122.04	532.56	999.99 3000.00	49.00	12.88	0.00	-50.93	657.64	-34.13
01647	19	4	3	3	0	0	0	0	0	0	0	0	0	0	533.21	0.96	2409.48-3461.35	40.00	715.00	533.21	533.21	2127.13	631.69
01648	19	4	3	3	64	8	0	0	0	0	0	0	0	0	533.21	0.96	2409.48-3461.35	40.00	715.00	533.21	431.06	2127.13	354.86
01649	19	4	3	3	0	0	0	0	0	0	0	0	0	0	541.22	-250.87	1525.58-4511.92	44.00	603.02	495.73	495.73	1223.99	26.31
01650	19	4	3	3	0	0	0	0	0	0	0	0	0	0	541.22	-250.87	1525.58-4511.92	44.00	603.02	495.73	65.47	1223.99	-48.68
01651	19	4	3	3	0	0	0	0	0	0	0	0	0	0	522.70	-113.69	2127.13-4654.31	42.00	746.59	522.70	522.70	1828.63	354.86
01652	19	4	3	3	0	0	0	0	0	0	0	0	0	0	124.82	176.86	1525.58 3000.00	45.00	213.21	116.10	25.11	926.03	-32.16
01653	19	4	3	3	0	0	0	0	0	0	0	0	0	0	124.82	176.86	1525.58 3000.00	45.00	213.21	116.10	0.00	926.03	-43.45
01654	19	4	3	3	0	0	0	0	0	0	0	0	0	0	-446.78	308.47	1525.58-1997.70	43.00	853.01	60.89	-247.53	926.03	-32.16
01655	19	4	3	3	0	0	0	0	0	0	0	0	0	0	-446.78	308.47	1525.58-1997.70	43.00	853.01	60.89	-247.53	926.03	-32.16
01656	19	4	3	3	0	0	0	0	0	0	0	0	0	0	626.19	-425.06	926.03-4603.21	46.00	707.45	524.50	524.50	631.69	-48.68
01657	19	4	3	3	0	0	0	0	0	0	0	0	0	0	626.19	-425.06	926.03-4603.21	46.00	707.45	524.50	158.56	631.69	-30.39
01658	19	4	3	3	0	0	0	0	0	0	0	0	0	0			2409.48-3000.00	39.00	691.09	565.15	565.15	2127.13	631.69
01659	19	4	3	3	0	0	0	0	0	0	0	0	0	0	585.11	-41.37	2409.48-3000.00	44.00	687.58	585.11	289.21	2127.13	26.31
01660	19	4	3	3	64	8	0	0	0	0	0	0	0	0	534.34	207.04	2849.07-3000.00	41.00	611.83	534.34	234.11	2657.65	354.86
01661	19	4	3	3	0	0	0	0	0	0	0	0	0	0	-54.18	370.73	2127.13 4920.49	44.00	244.59	91.27	0.00	1525.58	149.87
01662	19	4	3	3	0	0	0	0	0	0	0	0	0	0	-54.18	370.73	2127.13 4920.49	44.00	244.59	91.27	-27.90	1525.58	-48.68
01663	19	4	3	3	0	0	0	0	0	0	0	0	0	0	574.68	-327.83	1223.99-4632.57	45.00	688.19	493.86	493.86	926.03	-32.16
01664	19	4	3	3	0	0	0	0	0	0	0	0	0	0			2409.48-1158.52	39.00	717.14	0.00	0.00	2127.13	631.69
01665	19	4	3	3	0	0	0	0	0	0	0	0	0	0	531.95	-79.80	2127.13-3000.00	43.00	634.90	531.95	-190.69	1828.63	-32.16
01666	19	4	3	3	64	8	0	0	0	0	0	0	0	0	583.90	157.14	2849.07-3000.00	41.00	661.37	583.90	283.72	2657.65	354.86
01667	19	4	3	3	0	0	0	0	0	0	0	0	0	0	-9.79	523.19	2657.65 5119.97	44.00	205.37	66.76	0.00	2127.13	631.69
01668	19	4	3	3	0	0	0	0	0	0	0	0	0	0	-9.79	523.19	2657.65 5119.97	44.00	205.37	66.76	-87.91	2127.13	26.31
01669	19	4	3	3	64	8	0	0	0	0	0	0	0	0	588.76	-23.55	4127.13-2880.95	41.00	712.31	588.76	319.01	3828.62	2050.11
01670	19	4	3	3	0	0	0	0	0	0	0	0	0	0	507.16	162.18	4409.48-2869.57	41.00	609.47	507.16	507.16	4127.13	2631.69
01671	19	4	3	3	64	8	0	0	0	0	0	0	0	0	507.16	162.18	4409.48-2869.57	41.00	609.47	507.16	311.60	4127.13	2050.11
01672	19	4	3	3	0	0	0	0	0	0	0	0	0	0	543.13	15.24	4127.13-3000.00	43.00	647.00	543.13	256.62	3828.62	1472.02
01673	19	4	3	3	64	8	0	0	0	0	0	0	0	0	-1.09	-668.17	2926.03-2535.16	44.00	636.21	546.21	186.48	2340.07	893.89
01674	19	4	3	3	64	8	0	0	0	0	0	0	0	0	-1.09	-668.17	2926.03-2535.16	44.00	636.21	546.21	186.48	2340.07	893.89
01675	19	4	3	3	0	0	0	0	0	0	0	0	0	0	-219.92	64.75	3223.99-1061.97	43.00	732.84	29.30	-71.89	2631.69	1183.04
01676	19	4	3	3	0	0	0	0	0	0	0	0	0	0	-219.92	64.75	3223.99-1061.97	43.00	732.84	29.30	-71.89	2631.69	1183.04
01677	19	4	3	3	0	0	0	0	0	0	0	0	0	0	597.27	-146.73	3828.62-3461.35	42.00	740.86	597.27	597.27	3525.58	2050.11
01678	19	4	3	3	64	8	0	0	0	0	0	0	0	0	597.27	-146.73	3828.62-3461.35	42.00	740.86	597.27	231.13	3525.58	1760.94
01679	19	4	3	3	0	0	0	0	0	0	0	0	0	0	579.50	-555.65	2050.11-3431.16	49.00	648.54	532.41	0.00	1760.94	20.34
01680	19	4	3	3	0	0	0	0	0	0	0	0	0	0			3223.99-3603.81	43.00	798.48	450.54	450.54	2926.03	1472.02
01681	19	4	3	3	0	0	0	0	0	0	0	0	0	0			3223.99-3603.81	43.00	798.48	450.54	450.54	2926.03	1472.02
01682	19	4	3	3	64	8	0	0	0	0	0	0	0	0	63.55	94.97	4657.65-1197.70	38.00	1136.31	452.34	152.34	4127.13	2631.69
01683	19	4	3	3	64	8	0	0	0	0	0	0	0	0	79.49	-235.21	3223.99-1197.70	43.00	890.25	360.32	132.20	2631.69	1183.04
01684	19	4	3	3	0	0	0	0	0	0	0	0	0	0	271.95	231.06	3828.62-1158.52	43.00	920.05	271.95	-34.37	3525.58	1472.02
01685	19	4	3	3	0	0	0	0	0	0	0	0	0	0			3828.62-2869.57	41.00	609.49	510.31	510.31	3525.58	2050.11
01686	19	4	3	3	0	0	0	0	0	0	0	0	0	0			3828.62-2869.57	41.00	609.49	510.31	510.31	3525.58	2050.11
01687	19	4	3	3	64	8	0	0	0	0	0	0	0	0	543.75	-344.43	2926.03-3000.00	45.00	653.48	543.75	412.01	2631.69	893.89
01688	19	4	3	3	64	8	0	0	0	0	0	0	0	0	590.64	-132.49	3828.62-3000.00	43.00	691.00	590.64	405.74	3525.58	1472.02
01689	19	4	3	3	0	0	0	0	0	0	0	0	0	0	548.36	116.25	4409.48-3000.00	43.00	651.43	548.36	548.36	4127.13	2631.69
01690	19	4	3	3	0	0	0	0	0	0	0	0	0	0			2050.11 379.48	40.00	-309.20	-308.89	-308.89	1760.94	334.52
01691	19	4	3	3	0	0	0	0	0	0	0	0	0	0			2050.11 379.48	40.00	-309.24	-309.01	-309.01	1760.94	334.52
01692	19	4	3	3	64	8	0	0	0	0	0	0	0	0	-138.60	311.00	4409.48-1029.13	40.00	1237.25	277.20	20.84	3828.62	2340.07
01693	19	4	3	3	64	8	0	0	0	0	0	0	0	0	-138.60	311.00	4409.48-1029.13	40.00	1237.25	277.20	20.84	3828.62	2340.07
01694	19	4	3	3	0	0	0	0	0	0	0	0	0	0	-1.15	-196.08	2926.03-1029.13	44.00	929.36	221.00	33.38	2340.07	893.89
01695	19	4	3	3	0	0	0	0	0	0	0	0	0	0	-1.15	-196.08	2926.03-1029.13	44.00	929.36	221.00	33.38	2340.07	893.89
01696	19	4	3	3	0	0	0	0	0	0	0	0	0	0	-220.59	64.87	3525.58-1997.70	43.00	1158.13	368.37	-82.26	2631.69	1183.04
01697	19	4	3	3	0	0	0	0	0	0	0	0	0	0	-220.59	64.87	3525.58-1997.70	43.00	1158.13	368.37	-82.26	2631.69	1183.04
01698	19	4	3	3	0	0	0	0	0	0	0	0	0	0	427.93	-395.68	2340.07-3632.58	47.00	724.48	427.93	427.93	2050.11	604.57
01699	19	4	3	3	64	8	0	0	0	0	0	0	0	0	427.93	-395.68	2340.07-3632.58	47.00	724.48	427.93	355.33	2050.11	334.52
01700	19	4	3	3	0	0	0	0	0	0	0	0	0	0			2631.69-4483.01	45.00	609.30	441.08	441.08	2340.07	893.89
01701	19	4	3	3	0	0	0	0	0	0	0	0	0	0			2631.69-1158.52	45.00	644.61	152.27	152.27	2340.07	893.89
01702	19	4	3	3	0	0	0	0	0	0	0	0	0	0			2631.69-1158.52	45.00	644.61	152.27	152.27	2340.07	893.89
01703	19	4	3	3	0	0	0	0	0	0	0	0	0	0	543.00	15.25	4127.13-3000.00	43.00	646.65	543.00	543.00	3828.62	2340.07
01704	19	4	3	3	0	0	0	0	0	0	0	0	0	0			2631.69 550.24	44.00	-267.79	-218.28	-218.28	2340.07	893.89
01705	19	4	3	3	0	0	0	0	0	0	0	0	0	0			2631.69 550.24	44.00	-267.79	-218.28	-218.28	2340.07	893.89
01706	19	4	3	3	0	0	0	0	0	0	0	0	0	0	80.15	-102.34	3525.58 -938.76	43.00	792.74	402.82	70.35	2631.69	1183.04
01707	19	4	3	3	0	0	0	0	0	0	0	0	0	0	-218.50	268.26	3828.62 -932.60	43.00	618.69	209.46	-40.84	2926.03	1472.02

SEQ NUM	CLS	ROW TBL		COL																	
01708	19	4	3	3	0	0	0	0	0	0	0	0	0	0	-218.50	268.26	3828.62	-932.60	43.00	618.69	209.46	-40.84	2926.03	1472.02
01709	19	4	3	3	64	8	0	0	0	0	0	0	0	0	-331.32	226.31	3828.62	-1984.06	42.00	1159.95	296.27	0.00	3223.99	1760.94
01710	19	4	3	3	64	8	0	0	0	0	0	0	0	0	-145.13	-329.69	2340.07	-1984.06	46.00	813.25	206.87	0.00	1760.94	334.52
01711	19	4	3	3	0	0	0	0	0	0	0	0	0	0			2926.03	-1158.52	44.00	779.86	248.44	248.44	2631.69	1183.04
01712	19	4	3	3	0	0	0	0	0	0	0	0	0	0			3223.99	-1158.52	43.00	620.53	50.32	50.32	2926.03	1472.02
01713	19	4	3	3	0	0	0	0	0	0	0	0	0	0			3223.99	-1158.52	43.00	620.53	50.32	50.32	2926.03	1472.02
01714	19	4	3	3	0	0	0	0	0	0	0	0	0	0	592.47	-34.66	4127.13	-3000.00	43.00	696.02	592.47	592.47	3828.62	2340.07
02171	19	4	4	4	0	0	0	0	0	0	0	0	0	0	41.21	318.31	803.15	3000.00	46.00	25.77	0.00	-107.09	210.57	-16.23
02172	19	4	4	4	0	0	0	0	0	0	0	0	0	0	41.21	318.31	803.15	3000.00	46.00	25.77	0.00	-87.34	210.57	-10.13
02173	19	4	4	4	0	0	0	0	0	0	0	0	0	0	-252.60	101.83	3000.00	-5007.38	44.00	1421.98	1469.35	-119.78	2113.35	1631.30
02174	19	4	4	4	0	0	0	0	0	0	0	0	0	0	-252.60	101.83	3000.00	-5007.38	44.00	1421.98	1469.35	-119.78	2113.35	1631.30
02175	19	4	4	4	64	8	0	0	0	0	0	0	0	0	619.93	-405.86	3000.00	-5065.31	46.00	1054.80	1099.13	619.93	2113.35	1631.30
02176	19	4	4	4	64	8	0	0	0	0	0	0	0	0	619.93	-405.86	3000.00	-5065.31	46.00	1054.80	1099.13	351.61	2113.35	1534.86
02177	19	4	4	4	64	8	0	0	0	0	0	0	0	0	748.21	-465.37	3000.00	-5007.38	45.00	1125.75	1172.82	748.21	2210.56	1727.68
02178	19	4	4	4	64	8	0	0	0	0	0	0	0	0	748.21	-465.37	3000.00	-5007.38	45.00	1125.75	1172.82	707.32	2210.56	1631.30
02179	19	4	4	4	64	8	0	0	0	0	0	0	0	0	1182.79	-579.11	1000.00	-5098.50	40.00	1242.89	1211.59	464.28	-2.02	-10.58
02180	19	4	4	4	64	8	0	0	0	0	0	0	0	0	235.10	100.31	3000.00	-3000.00	43.00	838.50	834.53	101.74	926.03	-32.16
02181	19	4	4	4	0	0	0	0	0	0	0	0	0	0	235.10	100.31	3000.00	-3000.00	43.00	838.50	834.53	101.74	926.03	-32.16
02182	19	4	4	4	0	0	0	0	0	0	0	0	0	0	124.81	261.03	1223.99	3000.00	46.00	116.10	25.11	-63.61	926.03	-30.39
02183	19	4	4	4	61	19	64	8	0	0	0	0	0	0	963.53	-550.76	3000.00	-5098.50	41.00	1783.67	1751.90	853.01	1525.58	149.87
02184	19	4	4	4	0	0	0	0	0	0	0	0	0	0	733.42	-456.95	3000.00	-5098.50	43.00	1485.84	1453.67	493.85	926.03	-32.16
02185	19	4	4	4	0	0	0	0	0	0	0	0	0	0	733.42	-456.95	3000.00	-5098.50	43.00	1485.84	1453.67	493.85	926.03	-32.16
02186	19	4	4	4	0	0	0	0	0	0	0	0	0	0	339.50	-16.36	5000.00	-3000.00	45.00	1400.34	1396.43	339.50	2631.69	1183.04
02187	19	4	4	4	64	8	0	0	0	0	0	0	0	0	339.50	-16.36	5000.00	-3000.00	45.00	1400.34	1396.43	261.22	2631.69	893.89
02188	19	4	4	4	0	0	0	0	0	0	0	0	0	0	503.98	-383.32	5000.00	-5065.31	47.00	1539.74	1583.44	503.98	2050.11	604.57
02189	19	4	4	4	0	0	0	0	0	0	0	0	0	0	503.98	-383.32	5000.00	-5065.31	47.00	1539.74	1583.44	230.15	2050.11	334.51
02190	19	4	4	4	0	0	0	0	0	0	0	0	0	0			2050.11	379.48	46.00	-309.20	-308.90	-308.90	1760.95	334.51
02191	19	4	4	4	0	0	0	0	0	0	0	0	0	0			2050.11	351.72	46.00	-293.61	-303.29	-303.29	1760.95	334.51
02192	19	4	4	4	61	-19	64	8	0	0	0	0	0	0	95.18	700.52	4409.47	4610.29	49.00	70.30	95.18	95.18	4127.13	2631.69
02193	19	4	4	4	0	0	0	0	0	0	0	0	0	0	-296.45	101.83	3000.00	-5007.38	44.00	1421.98	1469.35	-119.78	2113.36	1631.30
02194	19	4	4	4	0	0	0	0	0	0	0	0	0	0	-296.45	101.83	3000.00	-5007.38	44.00	1421.98	1469.35	-119.78	2113.36	1631.30
02195	19	4	4	4	64	8	0	0	0	0	0	0	0	0	478.15	-405.86	3000.00	-5053.98	46.00	939.30	988.47	1174.59	2113.36	1534.86
02196	19	4	4	4	0	0	0	0	0	0	0	0	0	0	177.70	959.16	3000.00	3000.00	49.00	177.70	177.70	1151.34	3000.00	2508.52
02197	19	4	4	4	64	8	0	0	0	0	0	0	0	0	615.16	-465.37	3000.00	-5007.38	45.00	1125.75	1172.82	615.16	2210.57	1727.68
02198	19	4	4	4	64	8	0	0	0	0	0	0	0	0	615.16	-465.37	3000.00	-5007.38	45.00	1125.75	1172.82	566.51	2210.57	1631.30
02199	19	4	4	4	0	0	0	0	0	0	0	0	0	0	152.70	984.15	3000.00	3000.00	49.00	127.70	152.70	1240.90	3000.00	2508.52
02200	19	4	4	4	64	8	0	0	0	0	0	0	0	0	235.10	100.31	3000.00	-3000.00	43.00	838.50	834.53	101.74	926.03	-32.16
02201	19	4	4	4	0	0	0	0	0	0	0	0	0	0	235.10	100.31	3000.00	-3000.00	43.00	838.50	834.53	101.74	926.03	-32.16
02202	19	4	4	4	0	0	0	0	0	0	0	0	0	0	124.82	176.86	1525.58	3000.00	45.00	213.21	116.10	25.11	926.03	-32.16
02203	19	4	4	4	0	0	0	0	0	0	0	0	0	0	124.82	176.86	1525.58	3000.00	45.00	213.21	116.10	0.00	926.03	-43.45
02204	19	4	4	4	0	0	0	0	0	0	0	0	0	0	733.42	-456.96	3000.00	-5064.30	28.00	1366.06	1332.14	493.86	926.03	-32.16
02205	19	4	4	4	64	8	0	0	0	0	0	0	0	0	242.80	-16.37	5000.01	-3000.00	45.00	1400.35	1396.44	163.69	2631.69	893.89
02206	19	4	4	4	0	0	0	0	0	0	0	0	0	0			2050.11	379.48	46.00	-309.20	-308.89	-308.89	1760.94	334.52

APPENDIX E

SUMMARY NMAC TABLES

MITRE encounter classes: 0,10 Date processed: 6/22/94
Based on FAA Technical Center data of : 3/25/94 All TCAS Responding
Failure : separation at CPA <= 100 ft based on simulation truth
Ratio threshold (**) = 2.00 Significance threshold (>>) = 1.0 %

Table 0.3 - Percent of unresolved failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.000	0.000	0.000	0.000	0.000	0.000
One Mode C	0.000	0.000	0.000	-----	-----	-----

Table 0.4 - Percent of induced failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.000	0.000	0.000	0.000	0.000	0.000
One Mode C	0.000	0.000	0.000	-----	-----	-----

Table 10.3 - Percent of unresolved failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.000	0.000	0.000	0.000	0.000	0.000
One Mode C	0.000	0.000	0.000	-----	-----	-----

Table 10.4 - Percent of induced failures

	6.02 only	6.04 only	6.04A only	6.02 / 5.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.000	0.000	0.000	0.000	0.000	0.000
One Mode C	0.000	0.000	0.000	-----	-----	-----

MITRE encounter classes: 1,11 Date processed: 6/22/94
Based on FAA Technical Center data of : 3/25/94 All TCAS Responding
Failure : separation at CPA <= 100 ft based on simulation truth
Ratio threshold (**) = 2.00 Significance threshold (>>) = 1.0 %

Table 1.3 - Percent of unresolved failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.000	0.000	0.000	0.000	0.000	0.000
One Mode C	0.000	0.000	0.000	-----	-----	-----

Table 1.4 - Percent of induced failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.000	0.000	0.000	0.000	0.000	0.000
One Mode C	0.000	0.000	0.000	-----	-----	-----

Table 11.3 - Percent of unresolved failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.000	0.000	0.000	0.000	0.000	0.000
One Mode C	0.000	0.000	0.000	-----	-----	-----

Table 11.4 - Percent of induced failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.000	0.000	0.000	0.000	0.000	0.000
One Mode C	0.000	0.000	0.000	-----	-----	-----

MITRE encounter classes: 2,12 Date processed: 6/22/94
Based on FAA Technical Center data of : 3/25/94 All TCAS Responding
Failure : separation at CPA <= 100 ft based on simulation truth
Ratio threshold (**) = 2.00 Significance threshold (>>) = 1.0 %

Table 2.3 - Percent of unresolved failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.000	** 0.579	** 0.579	** 0.116	** 0.116	** 0.579
One Mode C	0.231	** >> 1.620	** >> 1.620	-----	-----	-----

Table 2.4 - Percent of induced failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.396	** >> 1.715	** >> 1.715	0.594	0.594	** >> 1.715
One Mode C	8.641	7.685	7.685	-----	-----	-----

Table 12.3 - Percent of unresolved failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.000	0.000	0.000	0.000	0.000	0.000
One Mode C	0.000	0.000	0.000	-----	-----	-----

Table 12.4 - Percent of induced failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.000	** 0.046	** 0.046	0.000	0.000	** 0.046
One Mode C	0.465	0.604	0.604	-----	-----	-----

MITRE encounter classes: 3,13 Date processed: 6/20/94
Based on FAA Technical Center data of : 3/25/94 All TCAS Responding
Failure : separation at CPA <= 100 ft based on simulation truth
Ratio threshold (**) = 2.00 Significance threshold (>>) = 1.0 %

Table 3.3 - Percent of unresolved failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.000	0.000	0.000	0.000	0.000	0.000
One Mode C	2.310	4.484	4.484	-----	-----	-----

Table 3.4 - Percent of induced failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.000	0.000	0.000	0.000	0.000	0.000
One Mode C	0.000	0.000	0.000	-----	-----	-----

Table 13.3 - Percent of unresolved failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.000	0.000	0.000	0.000	0.000	0.000
One Mode C	0.781	0.781	0.781	-----	-----	-----

Table 13.4 - Percent of induced failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.000	** 0.467	** 0.089	** 0.178	** 0.089	** 0.234
One Mode C	0.178	** 0.823	** 0.667	-----	-----	-----

MITRE encounter classes: 4,14 Date processed: 6/22/94
Based on FAA Technical Center data of : 3/25/94 All TCAS Responding
Failure : separation at CPA <= 100 ft based on simulation truth
Ratio threshold (**) = 2.00 Significance threshold (>>) = 1.0 %

Table 4.3 - Percent of unresolved failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.000	0.000	0.000	0.000	0.000	0.000
One Mode C	0.000	0.000	0.000	-----	-----	-----

Table 4.4 - Percent of induced failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.000	0.000	0.000	0.000	0.000	0.000
One Mode C	0.000	** 0.329	0.000	-----	-----	-----

Table 14.3 - Percent of unresolved failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.000	0.000	0.000	0.000	0.000	0.000
One Mode C	0.000	0.000	0.000	-----	-----	-----

Table 14.4 - Percent of induced failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.000	0.000	0.000	0.000	0.000	0.000
One Mode C	0.000	0.000	0.000	-----	-----	-----

MITRE encounter classes: 5,15 Date processed: 6/20/94
Based on FAA Technical Center data of : 3/25/94 All TCAS Responding
Failure : separation at CPA <= 100 ft based on simulation truth
Ratio threshold (**) = 2.00 Significance threshold (>>) = 1.0 %

Table 5.3 - Percent of unresolved failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.000	0.000	0.000	0.000	0.000	0.000
One Mode C	4.367	6.076	6.139	-----	-----	-----

Table 5.4 - Percent of induced failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.053	** 0.347	** 0.347	0.107	0.107	** 0.347
One Mode C	2.885	3.632	3.566	-----	-----	-----

Table 15.3 - Percent of unresolved failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.000	0.000	0.000	0.000	0.000	0.000
One Mode C	18.919	17.568	16.892	-----	-----	-----

Table 15.4 - Percent of induced failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.000	** 0.972	** 0.729	** 0.365	** 0.191	** 0.903
One Mode C	0.556	0.313	0.521	-----	-----	-----

MITRE encounter classes: 6,16 Date processed: 6/24/94
Based on FAA Technical Center data of : 3/25/94 All TCAS Responding
Failure : separation at CPA <= 100 ft based on simulation truth
Ratio threshold (**) = 2.00 Significance threshold (>>) = 1.0 %

Table 6.3 - Percent of unresolved failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.000	** 0.289	** 0.810	** 0.116	** 0.231	** 0.492
One Mode C	3.241	** >> 7.350	5.498	-----	-----	-----

Table 6.4 - Percent of induced failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.379	** 0.813	0.163	0.494	0.264	0.433
One Mode C	0.813	1.151	1.002	-----	-----	-----

Table 16.3 - Percent of unresolved failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.000	0.000	0.000	0.000	0.000	0.000
One Mode C	0.000	0.000	0.000	-----	-----	-----

Table 16.4 - Percent of induced failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.503	0.771	0.034	0.519	0.218	0.235
One Mode C	0.469	0.905	0.670	-----	-----	-----

MITRE encounter classes: 7,17 Date processed: 6/24/94
Based on FAA Technical Center data of : 3/25/94 All TCAS Responding
Failure : separation at CPA <= 100 ft based on simulation truth
Ratio threshold (**) = 2.00 Significance threshold (>>) = 1.0 %

Table 7.3 - Percent of unresolved failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.000	** 0.166	** 0.166	0.000	0.000	** 0.166
One Mode C	4.760	8.940	8.982	-----	-----	-----

Table 7.4 - Percent of induced failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.971	1.912	** >> 1.962	1.337	1.357	1.937
One Mode C	9.371	9.672	9.852	-----	-----	-----

Table 17.3 - Percent of unresolved failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.000	0.000	0.000	0.000	0.000	0.000
One Mode C	20.455	13.068	13.068	-----	-----	-----

Table 17.4 - Percent of induced failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.090	** 0.377	** 0.252	0.099	0.090	** 0.297
One Mode C	0.000	** 0.485	** 0.557	-----	-----	-----

MITRE encounter classes: 8,18 Date processed: 6/25/94
Based on FAA Technical Center data of : 3/25/94 All TCAS Responding
Failure : separation at CPA <= 100 ft based on simulation truth
Ratio threshold (**) = 2.00 Significance threshold (>>) = 1.0 %

Table 8.3 - Percent of unresolved failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.000	** >> 1.157	** >> 1.157	** 0.424	** 0.424	** >> 1.157
One Mode C	1.813	** >> 6.713	** >> 6.250	-----	-----	-----

Table 8.4 - Percent of induced failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.378	** >> 2.031	** >> 1.872	** >> 1.016	** >> 1.006	** >> 1.946
One Mode C	6.521	6.521	6.601	-----	-----	-----

Table 18.3 - Percent of unresolved failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.000	0.000	0.000	0.000	0.000	0.000
One Mode C	0.000	0.000	0.000	-----	-----	-----

Table 18.4 - Percent of induced failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.254	** 0.527	0.309	0.381	0.227	0.445
One Mode C	1.216	2.324	1.634	-----	-----	-----

MITRE encounter classes: 9,19 Date processed: 6/23/94
Based on FAA Technical Center data of : 3/25/94 All TCAS Responding
Failure : separation at CPA <= 100 ft based on simulation truth
Ratio threshold (**) = 2.00 Significance threshold (>>) = 1.0 %

Table 9.3 - Percent of unresolved failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.000	** 0.173	0.000	0.000	0.000	** 0.043
One Mode C	1.554	** >> 6.908	** >> 6.822	-----	-----	-----

Table 9.4 - Percent of induced failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.017	** 0.224	** 0.310	0.034	** 0.043	** 0.215
One Mode C	0.155	** 0.430	0.121	-----	-----	-----

Table 19.3 - Percent of unresolved failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	0.000	0.000	0.000	0.000	0.000	0.000
One Mode C	1.053	** >> 7.719	** >> 6.491	-----	-----	-----

Table 19.4 - Percent of induced failures

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
TCAS-TCAS	2.458	2.907	0.449	2.601	1.503	1.753
One Mode C	0.961	** >> 2.495	1.871	-----	-----	-----

APPENDIX F

NMACs AS A FUNCTION OF PARAMETER VALUES

PROGRAM CLASS	TBL	ROW	COL	AC1 EQ	AC2 EQ	AC1 RES	AC2 RES	Com Nmb	Nmb Com	Parameter Comb.Code	COUNT	HI ID	CPA SEP	AC1 RATE	AC2 RATE	AC1 ACC	AC2 ACC	AC1 TIM	AC2 TIM	AC1 ALT
2	3	4	4	65	65	1	1	4	1	001000000	(1)	--	--	-400.0	--	--	--	--	--	--
2	3	4	4	65	65	1	1	4	1	001000000	(2)	--	--	0.0	--	--	--	--	--	--
2	3	4	4	65	65	1	1	4	1	001000000	(2)	--	--	400.0	--	--	--	--	--	7480.0
2	3	4	4	65	65	1	1	256	1	000000001	(2)	--	--	--	--	--	--	--	--	3680.0
2	3	4	4	65	65	1	1	256	1	000000001	(3)	--	--	--	--	--	--	--	--	
2	4	4	4	65	65	1	1	1	1	100000000	(15)	1	--	--	--	--	--	--	--	--
2	4	4	4	65	65	1	1	1	1	100000000	(37)	2	--	--	--	--	--	--	--	--
2	4	4	4	65	65	1	1	2	1	010000000	(6)	--	-750.00	--	--	--	--	--	--	--
2	4	4	4	65	65	1	1	2	1	010000000	(15)	--	-250.00	--	--	--	--	--	--	--
2	4	4	4	65	65	1	1	2	1	010000000	(31)	--	-500.00	--	--	--	--	--	--	--
2	4	4	4	65	65	1	1	4	1	001000000	(12)	--	--	400.0	--	--	--	--	--	--
2	4	4	4	65	65	1	1	4	1	001000000	(19)	--	--	0.0	--	--	--	--	--	--
2	4	4	4	65	65	1	1	4	1	001000000	(21)	--	--	-400.0	--	--	--	--	--	--
2	4	4	4	65	65	1	1	8	1	000100000	(2)	--	--	--	3000.0	--	--	--	--	--
2	4	4	4	65	65	1	1	8	1	000100000	(50)	--	--	--	5000.0	--	--	--	--	--
2	4	4	4	65	65	1	1	32	1	000001000	(3)	--	--	--	--	--	0.15	--	--	--
2	4	4	4	65	65	1	1	32	1	000001000	(22)	--	--	--	--	--	0.35	--	--	--
2	4	4	4	65	65	1	1	32	1	000001000	(27)	--	--	--	--	--	0.25	--	--	--
2	4	4	4	65	65	1	1	128	1	000000010	(3)	--	--	--	--	--	--	--	-25.0	--
2	4	4	4	65	65	1	1	128	1	000000010	(49)	--	--	--	--	--	--	--	-20.0	--
2	4	4	4	65	65	1	1	256	1	000000001	(8)	--	--	--	--	--	--	--	--	7480.0
2	4	4	4	65	65	1	1	256	1	000000001	(9)	--	--	--	--	--	--	--	--	7520.0
2	4	4	4	65	65	1	1	256	1	000000001	(17)	--	--	--	--	--	--	--	--	3680.0
2	4	4	4	65	65	1	1	256	1	000000001	(18)	--	--	--	--	--	--	--	--	3720.0
5	4	4	4	65	65	1	1	1	1	100000000	(2)	1	--	--	--	--	--	--	--	--
5	4	4	4	65	65	1	1	1	1	100000000	(24)	2	--	--	--	--	--	--	--	--
5	4	4	4	65	65	1	1	2	1	010000000	(5)	--	-500.00	--	--	--	--	--	--	--
5	4	4	4	65	65	1	1	2	1	010000000	(10)	--	-750.00	--	--	--	--	--	--	--
5	4	4	4	65	65	1	1	2	1	010000000	(11)	--	-250.00	--	--	--	--	--	--	--
5	4	4	4	65	65	1	1	4	1	001000000	(4)	--	--	3000.0	--	--	--	--	--	--
5	4	4	4	65	65	1	1	4	1	001000000	(4)	--	--	-3000.0	--	--	--	--	--	--
5	4	4	4	65	65	1	1	4	1	001000000	(5)	--	--	1000.0	--	--	--	--	--	--
5	4	4	4	65	65	1	1	4	1	001000000	(13)	--	--	-1000.0	--	--	--	--	--	--
5	4	4	4	65	65	1	1	8	1	000100000	(1)	--	--	--	3000.0	--	--	--	--	--
5	4	4	4	65	65	1	1	8	1	000100000	(25)	--	--	--	5000.0	--	--	--	--	--
5	4	4	4	65	65	1	1	32	1	000001000	(2)	--	--	--	--	--	0.15	--	--	--
5	4	4	4	65	65	1	1	32	1	000001000	(7)	--	--	--	--	--	0.35	--	--	--
5	4	4	4	65	65	1	1	32	1	000001000	(17)	--	--	--	--	--	0.25	--	--	--
5	4	4	4	65	65	1	1	128	1	000000010	(2)	--	--	--	--	--	--	--	-25.0	--
5	4	4	4	65	65	1	1	128	1	000000010	(24)	--	--	--	--	--	--	--	-20.0	--
5	4	4	4	65	65	1	1	256	1	000000001	(3)	--	--	--	--	--	--	--	--	7480.0
5	4	4	4	65	65	1	1	256	1	000000001	(3)	--	--	--	--	--	--	--	--	7520.0
5	4	4	4	65	65	1	1	256	1	000000001	(10)	--	--	--	--	--	--	--	--	3680.0
5	4	4	4	65	65	1	1	256	1	000000001	(10)	--	--	--	--	--	--	--	--	3720.0
6	3	4	4	65	65	1	1	1	1	100000000	(3)	1	--	--	--	--	--	--	--	--
6	3	4	4	65	65	1	1	1	1	100000000	(11)	2	--	--	--	--	--	--	--	--
6	3	4	4	65	65	1	1	4	1	001000000	(4)	--	--	-5000.0	--	--	--	--	--	--
6	3	4	4	65	65	1	1	4	1	001000000	(10)	--	--	5000.0	--	--	--	--	--	--
6	3	4	4	65	65	1	1	8	1	000100000	(1)	--	--	--	-3000.0	--	--	--	--	--
6	3	4	4	65	65	1	1	8	1	000100000	(13)	--	--	--	-5000.0	--	--	--	--	--
6	3	4	4	65	65	1	1	32	1	000001000	(2)	--	--	--	--	--	0.35	--	--	--
6	3	4	4	65	65	1	1	32	1	000001000	(12)	--	--	--	--	--	0.15	--	--	--
6	3	4	4	65	65	1	1	128	1	000000010	(3)	--	--	--	--	--	--	--	-25.0	--
6	3	4	4	65	65	1	1	128	1	000000010	(4)	--	--	--	--	--	--	--	-30.0	--
6	3	4	4	65	65	1	1	128	1	000000010	(7)	--	--	--	--	--	--	--	-20.0	--
6	3	4	4	65	65	1	1	256	1	000000001	(1)	--	--	--	--	--	--	--	--	7480.0
6	3	4	4	65	65	1	1	256	1	000000001	(3)	--	--	--	--	--	--	--	--	3680.0
6	3	4	4	65	65	1	1	256	1	000000001	(4)	--	--	--	--	--	--	--	--	7520.0
6	3	4	4	65	65	1	1	256	1	000000001	(6)	--	--	--	--	--	--	--	--	3720.0
6	4	4	4	65	65	1	1	1	1	100000000	(4)	1	--	--	--	--	--	--	--	--
6	4	4	4	65	65	1	1	1	1	100000000	(8)	2	--	--	--	--	--	--	--	--
6	4	4	4	65	65	1	1	2	1	010000000	(6)	--	-250.00	--	--	--	--	--	--	--

CLASS	ROW TBL	ROW COL	AC1 EQ	AC2 EQ	AC1 RES	AC2 RES	Com Nmb	Nmb Com	Parameter Comb.Code	COUNT	HI ID	CPA SEP	AC1 RATE	AC2 RATE	AC1 ACC	AC2 ACC	AC1 TIM	AC2 TIM	AC1 ALT
6	4	4	65	65	1	1	2	1	010000000	(6)	--	-500.00	--	--	--	--	--	--	--
6	4	4	65	65	1	1	32	1	000001000	(2)	--	--	--	--	--	0.15	--	--	--
6	4	4	65	65	1	1	32	1	000001000	(4)	--	--	--	--	--	0.35	--	--	--
6	4	4	65	65	1	1	32	1	000001000	(6)	--	--	--	--	--	0.25	--	--	--
6	4	4	65	65	1	1	128	1	000000010	(2)	--	--	--	--	--	--	--	-25.0	--
6	4	4	65	65	1	1	128	1	000000010	(10)	--	--	--	--	--	--	--	-20.0	--
6	4	4	65	65	1	1	256	1	000000001	(2)	--	--	--	--	--	--	--	--	3680.0
6	4	4	65	65	1	1	256	1	000000001	(2)	--	--	--	--	--	--	--	--	7480.0
6	4	4	65	65	1	1	256	1	000000001	(4)	--	--	--	--	--	--	--	--	3720.0
6	4	4	65	65	1	1	256	1	000000001	(4)	--	--	--	--	--	--	--	--	7520.0
7	3	4	65	65	1	1	1	1	100000000	(2)	1	--	--	--	--	--	--	--	--
7	3	4	65	65	1	1	1	1	100000000	(2)	2	--	--	--	--	--	--	--	--
7	3	4	65	65	1	1	8	1	000100000	(2)	--	--	--	-3000.0	--	--	--	--	--
7	3	4	65	65	1	1	8	1	000100000	(2)	--	--	--	-5000.0	--	--	--	--	--
7	4	4	65	65	1	1	1	1	100000000	(92)	1	--	--	--	--	--	--	--	--
7	4	4	65	65	1	1	1	1	100000000	(104)	2	--	--	--	--	--	--	--	--
7	4	4	65	65	1	1	2	1	010000000	(2)	--	-250.00	--	--	--	--	--	--	--
7	4	4	65	65	1	1	2	1	010000000	(53)	--	250.00	--	--	--	--	--	--	--
7	4	4	65	65	1	1	2	1	010000000	(58)	--	500.00	--	--	--	--	--	--	--
7	4	4	65	65	1	1	2	1	010000000	(83)	--	750.00	--	--	--	--	--	--	--
7	4	4	65	65	1	1	4	1	001000000	(35)	--	--	3000.0	--	--	--	--	--	--
7	4	4	65	65	1	1	4	1	001000000	(38)	--	--	1000.0	--	--	--	--	--	--
7	4	4	65	65	1	1	4	1	001000000	(123)	--	--	5000.0	--	--	--	--	--	--
7	4	4	65	65	1	1	8	1	000100000	(2)	--	--	--	5000.0	--	--	--	--	--
7	4	4	65	65	1	1	8	1	000100000	(3)	--	--	--	1000.0	--	--	--	--	--
7	4	4	65	65	1	1	8	1	000100000	(26)	--	--	--	-1000.0	--	--	--	--	--
7	4	4	65	65	1	1	8	1	000100000	(38)	--	--	--	-3000.0	--	--	--	--	--
7	4	4	65	65	1	1	8	1	000100000	(127)	--	--	--	-5000.0	--	--	--	--	--
7	4	4	65	65	1	1	16	1	000010000	(39)	--	--	--	--	0.25	--	--	--	--
7	4	4	65	65	1	1	16	1	000010000	(48)	--	--	--	--	0.05	--	--	--	--
7	4	4	65	65	1	1	16	1	000010000	(109)	--	--	--	--	0.15	--	--	--	--
7	4	4	65	65	1	1	32	1	000001000	(1)	--	--	--	--	--	0.15	--	--	--
7	4	4	65	65	1	1	32	1	000001000	(1)	--	--	--	--	--	0.25	--	--	--
7	4	4	65	65	1	1	32	1	000001000	(3)	--	--	--	--	--	0.35	--	--	--
7	4	4	65	65	1	1	32	1	000001000	(38)	--	--	--	--	--	-0.35	--	--	--
7	4	4	65	65	1	1	32	1	000001000	(41)	--	--	--	--	--	-0.05	--	--	--
7	4	4	65	65	1	1	32	1	000001000	(48)	--	--	--	--	--	-0.15	--	--	--
7	4	4	65	65	1	1	32	1	000001000	(64)	--	--	--	--	--	-0.25	--	--	--
7	4	4	65	65	1	1	128	1	000000010	(15)	--	--	--	--	--	--	--	-30.0	--
7	4	4	65	65	1	1	128	1	000000010	(25)	--	--	--	--	--	--	--	-25.0	--
7	4	4	65	65	1	1	128	1	000000010	(156)	--	--	--	--	--	--	--	-20.0	--
7	4	4	65	65	1	1	256	1	000000001	(75)	--	--	--	--	--	--	--	--	7500.0
7	4	4	65	65	1	1	256	1	000000001	(121)	--	--	--	--	--	--	--	--	3700.0
8	3	4	65	65	1	1	1	1	100000000	(6)	1	--	--	--	--	--	--	--	--
8	3	4	65	65	1	1	1	1	100000000	(24)	2	--	--	--	--	--	--	--	--
8	3	4	65	65	1	1	4	1	001000000	(8)	--	--	-5000.0	--	--	--	--	--	--
8	3	4	65	65	1	1	4	1	001000000	(11)	--	--	-1000.0	--	--	--	--	--	--
8	3	4	65	65	1	1	4	1	001000000	(11)	--	--	-3000.0	--	--	--	--	--	--
8	3	4	65	65	1	1	8	1	000100000	(7)	--	--	--	5000.0	--	--	--	--	--
8	3	4	65	65	1	1	8	1	000100000	(23)	--	--	--	-5000.0	--	--	--	--	--
8	3	4	65	65	1	1	16	1	000010000	(8)	--	--	--	--	0.05	--	--	--	--
8	3	4	65	65	1	1	16	1	000010000	(9)	--	--	--	--	0.25	--	--	--	--
8	3	4	65	65	1	1	16	1	000010000	(13)	--	--	--	--	0.15	--	--	--	--
8	3	4	65	65	1	1	32	1	000001000	(3)	--	--	--	--	--	-0.25	--	--	--
8	3	4	65	65	1	1	32	1	000001000	(7)	--	--	--	--	--	0.15	--	--	--
8	3	4	65	65	1	1	32	1	000001000	(20)	--	--	--	--	--	-0.15	--	--	--
8	3	4	65	65	1	1	128	1	000000010	(4)	--	--	--	--	--	--	--	-25.0	--
8	3	4	65	65	1	1	128	1	000000010	(26)	--	--	--	--	--	--	--	-20.0	--
8	3	4	65	65	1	1	256	1	000000001	(13)	--	--	--	--	--	--	--	--	7500.0
8	3	4	65	65	1	1	256	1	000000001	(17)	--	--	--	--	--	--	--	--	3700.0
8	4	4	65	65	1	1	1	1	100000000	(74)	1	--	--	--	--	--	--	--	--
8	4	4	65	65	1	1	1	1	100000000	(114)	2	--	--	--	--	--	--	--	--

CLASS	ROW TBL	ROW COL	AC1 EQ	AC2 EQ	AC1 RES	AC2 RES	Com Nmb	Nmb Com	Parameter Comb.Code	COUNT	HI ID	CPA SEP	AC1 RATE	AC2 RATE	AC1 ACC	AC2 ACC	AC1 TIM	AC2 TIM	AC1 ALT
8	4	4	65	65	1	1	2	1	010000000	(5)	--	-750.00	--	--	--	--	--	--	--
8	4	4	65	65	1	1	2	1	010000000	(7)	--	-250.00	--	--	--	--	--	--	--
8	4	4	65	65	1	1	2	1	010000000	(21)	--	-500.00	--	--	--	--	--	--	--
8	4	4	65	65	1	1	2	1	010000000	(28)	--	250.00	--	--	--	--	--	--	--
8	4	4	65	65	1	1	2	1	010000000	(51)	--	750.00	--	--	--	--	--	--	--
8	4	4	65	65	1	1	2	1	010000000	(76)	--	500.00	--	--	--	--	--	--	--
8	4	4	65	65	1	1	4	1	001000000	(56)	--	--	-3000.0	--	--	--	--	--	--
8	4	4	65	65	1	1	4	1	001000000	(61)	--	--	-5000.0	--	--	--	--	--	--
8	4	4	65	65	1	1	4	1	001000000	(71)	--	--	-1000.0	--	--	--	--	--	--
8	4	4	65	65	1	1	8	1	000100000	(2)	--	--	--	3000.0	--	--	--	--	--
8	4	4	65	65	1	1	8	1	000100000	(5)	--	--	--	-1000.0	--	--	--	--	--
8	4	4	65	65	1	1	8	1	000100000	(8)	--	--	--	-3000.0	--	--	--	--	--
8	4	4	65	65	1	1	8	1	000100000	(30)	--	--	--	5000.0	--	--	--	--	--
8	4	4	65	65	1	1	8	1	000100000	(143)	--	--	--	-5000.0	--	--	--	--	--
8	4	4	65	65	1	1	16	1	000010000	(43)	--	--	--	--	0.05	--	--	--	--
8	4	4	65	65	1	1	16	1	000010000	(64)	--	--	--	--	0.25	--	--	--	--
8	4	4	65	65	1	1	16	1	000010000	(81)	--	--	--	--	0.15	--	--	--	--
8	4	4	65	65	1	1	32	1	000001000	(2)	--	--	--	--	--	0.15	--	--	--
8	4	4	65	65	1	1	32	1	000001000	(4)	--	--	--	--	--	0.05	--	--	--
8	4	4	65	65	1	1	32	1	000001000	(9)	--	--	--	--	--	0.35	--	--	--
8	4	4	65	65	1	1	32	1	000001000	(17)	--	--	--	--	--	0.25	--	--	--
8	4	4	65	65	1	1	32	1	000001000	(40)	--	--	--	--	--	-0.15	--	--	--
8	4	4	65	65	1	1	32	1	000001000	(49)	--	--	--	--	--	-0.35	--	--	--
8	4	4	65	65	1	1	32	1	000001000	(67)	--	--	--	--	--	-0.25	--	--	--
8	4	4	65	65	1	1	128	1	000000010	(22)	--	--	--	--	--	--	--	-30.0	--
8	4	4	65	65	1	1	128	1	000000010	(38)	--	--	--	--	--	--	--	-25.0	--
8	4	4	65	65	1	1	128	1	000000010	(128)	--	--	--	--	--	--	--	-20.0	--
8	4	4	65	65	1	1	256	1	000000001	(75)	--	--	--	--	--	--	--	--	7500.0
8	4	4	65	65	1	1	256	1	000000001	(113)	--	--	--	--	--	--	--	--	3700.0
9	4	4	65	65	1	1	1	1	100000000	(7)	2	--	--	--	--	--	--	--	--
9	4	4	65	65	1	1	1	1	100000000	(11)	1	--	--	--	--	--	--	--	--
9	4	4	65	65	1	1	2	1	010000000	(1)	--	250.00	--	--	--	--	--	--	--
9	4	4	65	65	1	1	2	1	010000000	(1)	--	500.00	--	--	--	--	--	--	--
9	4	4	65	65	1	1	2	1	010000000	(1)	--	-500.00	--	--	--	--	--	--	--
9	4	4	65	65	1	1	2	1	010000000	(1)	--	1000.00	--	--	--	--	--	--	--
9	4	4	65	65	1	1	2	1	010000000	(14)	--	-250.00	--	--	--	--	--	--	--
9	4	4	65	65	1	1	4	1	001000000	(1)	--	--	1000.0	--	--	--	--	--	--
9	4	4	65	65	1	1	4	1	001000000	(17)	--	--	5000.0	--	--	--	--	--	--
9	4	4	65	65	1	1	8	1	000100000	(1)	--	--	--	5000.0	--	--	--	--	--
9	4	4	65	65	1	1	8	1	000100000	(1)	--	--	--	-3000.0	--	--	--	--	--
9	4	4	65	65	1	1	8	1	000100000	(3)	--	--	--	3000.0	--	--	--	--	--
9	4	4	65	65	1	1	8	1	000100000	(13)	--	--	--	-5000.0	--	--	--	--	--
9	4	4	65	65	1	1	16	1	000010000	(7)	--	--	--	--	-0.15	--	--	--	--
9	4	4	65	65	1	1	16	1	000010000	(11)	--	--	--	--	-0.05	--	--	--	--
9	4	4	65	65	1	1	32	1	000001000	(1)	--	--	--	--	--	-0.05	--	--	--
9	4	4	65	65	1	1	32	1	000001000	(1)	--	--	--	--	--	-0.15	--	--	--
9	4	4	65	65	1	1	32	1	000001000	(2)	--	--	--	--	--	-0.25	--	--	--
9	4	4	65	65	1	1	32	1	000001000	(2)	--	--	--	--	--	-0.25	--	--	--
9	4	4	65	65	1	1	32	1	000001000	(3)	--	--	--	--	--	0.15	--	--	--
9	4	4	65	65	1	1	32	1	000001000	(4)	--	--	--	--	--	0.35	--	--	--
9	4	4	65	65	1	1	32	1	000001000	(5)	--	--	--	--	--	0.05	--	--	--
9	4	4	65	65	1	1	128	1	000000010	(2)	--	--	--	--	--	--	--	-30.0	--
9	4	4	65	65	1	1	128	1	000000010	(8)	--	--	--	--	--	--	--	-20.0	--
9	4	4	65	65	1	1	128	1	000000010	(8)	--	--	--	--	--	--	--	-25.0	--
9	4	4	65	65	1	1	256	1	000000001	(4)	--	--	--	--	--	--	--	--	7500.0
9	4	4	65	65	1	1	256	1	000000001	(14)	--	--	--	--	--	--	--	--	3700.0
13	4	4	65	65	1	1	1	1	100000000	(2)	1	--	--	--	--	--	--	--	--
13	4	4	65	65	1	1	1	1	100000000	(2)	2	--	--	--	--	--	--	--	--
13	4	4	65	65	1	1	32	1	000001000	(1)	--	--	--	--	--	-0.35	--	--	--
13	4	4	65	65	1	1	32	1	000001000	(3)	--	--	--	--	--	-0.25	--	--	--
13	4	4	65	65	1	1	256	1	000000001	(2)	--	--	--	--	--	--	--	--	3680.0
13	4	4	65	65	1	1	256	1	000000001	(2)	--	--	--	--	--	--	--	--	3720.0
15	4	4	65	65	1	1	1	1	100000000	(3)	1	--	--	--	--	--	--	--	--

CLASS	ROW TBL	ROW COL	AC1 EQ	AC2 EQ	AC1 RES	AC2 RES	Com Nmb	Nmb Com	Parameter Comb.Code	COUNT	HI ID	CPA SEP	AC1 RATE	AC2 RATE	AC1 ACC	AC2 ACC	AC1 TIM	AC2 TIM	AC1 ALT
15	4	4	65	65	1	1	1	1	100000000	(18)	2	--	--	--	--	--	--	--	--
15	4	4	65	65	1	1	2	1	010000000	(3)	--	-250.00	--	--	--	--	--	--	--
15	4	4	65	65	1	1	2	1	010000000	(5)	--	-750.00	--	--	--	--	--	--	--
15	4	4	65	65	1	1	2	1	010000000	(13)	--	-500.00	--	--	--	--	--	--	--
15	4	4	65	65	1	1	4	1	001000000	(3)	--	--	1000.0	--	--	--	--	--	--
15	4	4	65	65	1	1	4	1	001000000	(7)	--	--	5000.0	--	--	--	--	--	--
15	4	4	65	65	1	1	4	1	001000000	(11)	--	--	3000.0	--	--	--	--	--	--
15	4	4	65	65	1	1	32	1	000001000	(1)	--	--	--	--	--	0.15	--	--	--
15	4	4	65	65	1	1	32	1	000001000	(9)	--	--	--	--	--	0.25	--	--	--
15	4	4	65	65	1	1	32	1	000001000	(11)	--	--	--	--	--	0.35	--	--	--
15	4	4	65	65	1	1	128	1	000000010	(5)	--	--	--	--	--	--	--	-25.0	--
15	4	4	65	65	1	1	128	1	000000010	(16)	--	--	--	--	--	--	--	-20.0	--
15	4	4	65	65	1	1	256	1	000000001	(2)	--	--	--	--	--	--	--	--	7480.0
15	4	4	65	65	1	1	256	1	000000001	(3)	--	--	--	--	--	--	--	--	7520.0
15	4	4	65	65	1	1	256	1	000000001	(6)	--	--	--	--	--	--	--	--	3720.0
15	4	4	65	65	1	1	256	1	000000001	(10)	--	--	--	--	--	--	--	--	3680.0
17	4	4	65	65	1	1	1	1	100000000	(7)	1	--	--	--	--	--	--	--	--
17	4	4	65	65	1	1	1	1	100000000	(7)	2	--	--	--	--	--	--	--	--
17	4	4	65	65	1	1	2	1	010000000	(1)	--	250.00	--	--	--	--	--	--	--
17	4	4	65	65	1	1	2	1	010000000	(13)	--	500.00	--	--	--	--	--	--	--
17	4	4	65	65	1	1	8	1	000100000	(2)	--	--	--	5000.0	--	--	--	--	--
17	4	4	65	65	1	1	8	1	000100000	(12)	--	--	--	3000.0	--	--	--	--	--
17	4	4	65	65	1	1	16	1	000010000	(1)	--	--	--	--	0.25	--	--	--	--
17	4	4	65	65	1	1	16	1	000010000	(13)	--	--	--	--	0.15	--	--	--	--
17	4	4	65	65	1	1	32	1	000001000	(4)	--	--	--	--	--	0.15	--	--	--
17	4	4	65	65	1	1	32	1	000001000	(5)	--	--	--	--	--	0.25	--	--	--
17	4	4	65	65	1	1	32	1	000001000	(5)	--	--	--	--	--	0.35	--	--	--
17	4	4	65	65	1	1	128	1	000000010	(7)	--	--	--	--	--	--	--	-25.0	--
17	4	4	65	65	1	1	128	1	000000010	(7)	--	--	--	--	--	--	--	-30.0	--
18	4	4	65	65	1	1	1	1	100000000	(7)	2	--	--	--	--	--	--	--	--
18	4	4	65	65	1	1	1	1	100000000	(10)	1	--	--	--	--	--	--	--	--
18	4	4	65	65	1	1	2	1	010000000	(2)	--	250.00	--	--	--	--	--	--	--
18	4	4	65	65	1	1	2	1	010000000	(7)	--	750.00	--	--	--	--	--	--	--
18	4	4	65	65	1	1	2	1	010000000	(8)	--	500.00	--	--	--	--	--	--	--
18	4	4	65	65	1	1	4	1	001000000	(4)	--	--	-3000.0	--	--	--	--	--	--
18	4	4	65	65	1	1	4	1	001000000	(13)	--	--	-5000.0	--	--	--	--	--	--
18	4	4	65	65	1	1	8	1	000100000	(1)	--	--	--	3000.0	--	--	--	--	--
18	4	4	65	65	1	1	8	1	000100000	(4)	--	--	--	1000.0	--	--	--	--	--
18	4	4	65	65	1	1	8	1	000100000	(6)	--	--	--	-3000.0	--	--	--	--	--
18	4	4	65	65	1	1	8	1	000100000	(6)	--	--	--	-5000.0	--	--	--	--	--
18	4	4	65	65	1	1	16	1	000010000	(4)	--	--	--	--	0.05	--	--	--	--
18	4	4	65	65	1	1	16	1	000010000	(4)	--	--	--	--	0.25	--	--	--	--
18	4	4	65	65	1	1	16	1	000010000	(9)	--	--	--	--	0.15	--	--	--	--
18	4	4	65	65	1	1	32	1	000001000	(1)	--	--	--	--	--	0.05	--	--	--
18	4	4	65	65	1	1	32	1	000001000	(1)	--	--	--	--	--	0.15	--	--	--
18	4	4	65	65	1	1	32	1	000001000	(1)	--	--	--	--	--	0.35	--	--	--
18	4	4	65	65	1	1	32	1	000001000	(2)	--	--	--	--	--	0.25	--	--	--
18	4	4	65	65	1	1	32	1	000001000	(4)	--	--	--	--	--	-0.05	--	--	--
18	4	4	65	65	1	1	32	1	000001000	(4)	--	--	--	--	--	-0.25	--	--	--
18	4	4	65	65	1	1	32	1	000001000	(4)	--	--	--	--	--	-0.35	--	--	--
18	4	4	65	65	1	1	128	1	000000010	(2)	--	--	--	--	--	--	--	-30.0	--
18	4	4	65	65	1	1	128	1	000000010	(5)	--	--	--	--	--	--	--	-25.0	--
18	4	4	65	65	1	1	128	1	000000010	(10)	--	--	--	--	--	--	--	-20.0	--
18	4	4	65	65	1	1	256	1	000000001	(2)	--	--	--	--	--	--	--	--	7500.0
18	4	4	65	65	1	1	256	1	000000001	(15)	--	--	--	--	--	--	--	--	3700.0
19	4	4	65	65	1	1	1	1	100000000	(16)	2	--	--	--	--	--	--	--	--
19	4	4	65	65	1	1	1	1	100000000	(20)	1	--	--	--	--	--	--	--	--
19	4	4	65	65	1	1	2	1	010000000	(2)	--	1000.00	--	--	--	--	--	--	--
19	4	4	65	65	1	1	2	1	010000000	(6)	--	500.00	--	--	--	--	--	--	--
19	4	4	65	65	1	1	2	1	010000000	(9)	--	-750.00	--	--	--	--	--	--	--
19	4	4	65	65	1	1	2	1	010000000	(19)	--	-500.00	--	--	--	--	--	--	--
19	4	4	65	65	1	1	4	1	001000000	(3)	--	--	1000.0	--	--	--	--	--	--
19	4	4	65	65	1	1	4	1	001000000	(9)	--	--	5000.0	--	--	--	--	--	--

CLASS	ROW TBL	ROW COL	AC1 EQ	AC2 EQ	AC1 RES	AC2 RES	Com Nmb	Nmb Com	Parameter Comb.Code	COUNT	HI ID	CPA SEP	AC1 RATE	AC2 RATE	AC1 ACC	AC2 ACC	AC1 TIM	AC2 TIM	AC1 ALT
19	4	4	65	65	1	1	4	1	001000000	(24)	--	--	3000.0	--	--	--	--	--	--
19	4	4	65	65	1	1	8	1	000100000	(3)	--	--	--	5000.0	--	--	--	--	--
19	4	4	65	65	1	1	8	1	000100000	(7)	--	--	--	-3000.0	--	--	--	--	--
19	4	4	65	65	1	1	8	1	000100000	(8)	--	--	--	3000.0	--	--	--	--	--
19	4	4	65	65	1	1	8	1	000100000	(18)	--	--	--	-5000.0	--	--	--	--	--
19	4	4	65	65	1	1	16	1	000010000	(15)	--	--	--	--	-0.05	--	--	--	--
19	4	4	65	65	1	1	16	1	000010000	(21)	--	--	--	--	-0.15	--	--	--	--
19	4	4	65	65	1	1	32	1	000001000	(1)	--	--	--	--	--	-0.35	--	--	--
19	4	4	65	65	1	1	32	1	000001000	(3)	--	--	--	--	--	0.05	--	--	--
19	4	4	65	65	1	1	32	1	000001000	(3)	--	--	--	--	--	-0.25	--	--	--
19	4	4	65	65	1	1	32	1	000001000	(6)	--	--	--	--	--	0.15	--	--	--
19	4	4	65	65	1	1	32	1	000001000	(7)	--	--	--	--	--	0.35	--	--	--
19	4	4	65	65	1	1	32	1	000001000	(7)	--	--	--	--	--	-0.15	--	--	--
19	4	4	65	65	1	1	32	1	000001000	(9)	--	--	--	--	--	0.25	--	--	--
19	4	4	65	65	1	1	128	1	000000010	(7)	--	--	--	--	--	--	--	-25.0	--
19	4	4	65	65	1	1	128	1	000000010	(7)	--	--	--	--	--	--	--	-30.0	--
19	4	4	65	65	1	1	128	1	000000010	(22)	--	--	--	--	--	--	--	-20.0	--
19	4	4	65	65	1	1	256	1	000000001	(14)	--	--	--	--	--	--	--	--	7500.0
19	4	4	65	65	1	1	256	1	000000001	(22)	--	--	--	--	--	--	--	--	3700.0

APPENDIX G

NMACs AS A FUNCTION OF LOGIC VERSION

CLS TBL	REIT	ModeS #1	ModeS #2	R,C	R,C	CPA Alt Separat	AC#1 Rate	AC#2 Rate	AC#1 Acc.	AC#2 Acc.	AC#1 Time	AC#2 Time	AC #1 CPA Alt	Cell 3,3 Data File	Cell 3,3 Achieved Separatn	Cell 3,3 N	Cell 3,3 C	Cell 3,3 I	Cell 3,3 RAS 1	Cell 3,3 RAS 2	Cell 3,3 Own Alt CPA	Cell 3,3 Alt Ach	Cell 4,4 Data File	Cell 4,4 Achieved Separatn	Cell 4,4 N	Cell 4,4 C	Cell 4,4 I	Cell 4,4 RAS 1	Cell 4,4 RAS 2	Cell 4,4 Own Alt CPA	Cell 4,4 Alt Ach
2 3	375	5	10	3	3	4 4 0.00	0.0	5000.0	0.00	0.15	0.0	-20.0	3680.0	cl212ot	82.5	0	0	4	4	3722.6		cl212uz	82.5	0	0	4	4	3722.6	
2 3	1887	5	10	3	3	4 4 0.00	0.0	5000.0	0.00	0.15	0.0	-20.0	7480.0	cl212ot	82.5	0	0	5	5	7522.6		cl212uz	82.5	0	0	5	5	7522.6	
2 3	627	5	10	3	3	4 4 0.00	400.0	5000.0	0.00	0.15	0.0	-20.0	3680.0	cl212ot	82.5	0	0	4	4	3722.6		cl212uz	82.5	0	0	4	4	3722.6	
2 3	2139	5	10	3	3	4 4 0.00	400.0	5000.0	0.00	0.15	0.0	-20.0	7480.0	cl212ot	82.5	0	0	5	5	7522.6		cl212uz	82.5	0	0	5	5	7522.6	
2 3	123	5	10	3	3	4 4 0.00	-400.0	5000.0	0.00	0.15	0.0	-20.0	3680.0	cl212ot	82.5	0	0	4	4	3722.6		cl212uz	82.5	0	0	4	4	3722.6	
2 3	----------			3	3	4 4 Subtotal = 5 NMACs																									
2 4	439	5	10	3	3	4 4 -250.00	0.0	5000.0	0.00	0.25	0.0	-20.0	3680.0	cl212ot	-18.2	1	0	4	4	3811.2		cl212uz	-18.2	1	0	4	4	3811.2	
2 4	439	10	5	3	3	4 4 -250.00	0.0	5000.0	0.00	0.25	0.0	-20.0	3680.0	cl212ot	78.3	0	0	4	4	3811.2		cl212uz	78.3	0	0	4	4	3811.2	
2 4	1195	5	10	3	3	4 4 -250.00	0.0	5000.0	0.00	0.25	0.0	-20.0	3720.0	cl212ot	67.7	0	0	4	4	3892.9		cl212uz	67.7	0	0	4	4	3892.9	
2 4	1951	5	10	3	3	4 4 -250.00	0.0	5000.0	0.00	0.25	0.0	-20.0	7480.0	cl212ot	82.2	0	0	5	5	7652.9		cl212uz	82.2	0	0	5	5	7652.9	
2 4	2707	5	10	3	3	4 4 -250.00	0.0	5000.0	0.00	0.25	0.0	-20.0	7520.0	cl212ot	82.2	0	0	5	5	7692.9		cl212uz	82.2	0	0	5	5	7692.9	
2 4	691	5	10	3	3	4 4 -250.00	400.0	5000.0	0.00	0.25	0.0	-20.0	3680.0	cl212ot	-28.9	1	0	4	4	3800.6		cl212uz	-28.9	1	0	4	4	3800.6	
2 4	691	10	5	3	3	4 4 -250.00	400.0	5000.0	0.00	0.25	0.0	-20.0	3680.0	cl212ot	67.7	0	0	4	4	3800.6		cl212uz	67.7	0	0	4	4	3800.6	
2 4	1447	5	10	3	3	4 4 -250.00	400.0	5000.0	0.00	0.25	0.0	-20.0	3720.0	cl212ot	-28.9	1	0	4	4	3840.6		cl212uz	-28.9	1	0	4	4	3840.6	
2 4	1447	10	5	3	3	4 4 -250.00	400.0	5000.0	0.00	0.25	0.0	-20.0	3720.0	cl212ot	67.7	0	0	4	4	3840.6		cl212uz	67.7	0	0	4	4	3840.6	
2 4	2203	5	10	3	3	4 4 -250.00	400.0	5000.0	0.00	0.25	0.0	-20.0	7480.0	cl212ot	64.9	0	0	5	5	7635.6		cl212uz	64.9	0	0	5	5	7635.6	
2 4	2959	5	10	3	3	4 4 -250.00	400.0	5000.0	0.00	0.25	0.0	-20.0	7520.0	cl212ot	64.9	0	0	5	5	7675.6		cl212uz	64.9	0	0	5	5	7675.6	
2 4	124	5	10	3	3	4 4 -250.00	-400.0	5000.0	0.00	0.15	0.0	-20.0	3680.0	cl212ot	91.3	0	0	4	4	3807.7		cl212uz	91.3	0	0	4	4	3807.7	
2 4	880	5	10	3	3	4 4 -250.00	-400.0	5000.0	0.00	0.15	0.0	-20.0	3720.0	cl212ot	30.8	0	0	4	4	3857.9		cl212uz	30.8	0	0	4	4	3857.9	
2 4	187	5	10	3	3	4 4 -250.00	-400.0	5000.0	0.00	0.25	0.0	-20.0	3680.0	cl212ot	81.0	0	0	4	4	3866.3		cl212uz	81.0	0	0	4	4	3866.3	
2 4	943	5	10	3	3	4 4 -250.00	-400.0	5000.0	0.00	0.25	0.0	-20.0	3720.0	cl212ot	81.0	0	0	4	4	3906.3		cl212uz	81.0	0	0	4	4	3906.3	
2 4	370	5	10	3	3	4 4 -500.00	0.0	5000.0	0.00	0.15	0.0	-25.0	3680.0	cl212ot	49.5	0	0	4	4	3936.2		cl212uz	49.5	0	0	4	4	3936.2	
2 4	440	5	10	3	3	4 4 -500.00	0.0	5000.0	0.00	0.25	0.0	-20.0	3680.0	cl212ot	39.4	0	0	4	4	3936.2		cl212uz	39.4	0	0	4	4	3936.2	
2 4	1196	5	10	3	3	4 4 -500.00	0.0	5000.0	0.00	0.25	0.0	-20.0	3720.0	cl212ot	-48.2	1	0	4	4	3934.6		cl212uz	-48.2	1	0	4	4	3934.6	
2 4	1196	10	5	3	3	4 4 -500.00	0.0	5000.0	0.00	0.25	0.0	-20.0	3720.0	cl212ot	66.1	0	0	4	4	3934.6		cl212uz	66.1	0	0	4	4	3934.6	
2 4	1952	5	10	3	3	4 4 -500.00	0.0	5000.0	0.00	0.25	0.0	-20.0	7480.0	cl212ot	53.8	0	0	5	5	7736.2		cl212uz	53.8	0	0	5	5	7736.2	
2 4	2708	5	10	3	3	4 4 -500.00	0.0	5000.0	0.00	0.25	0.0	-20.0	7520.0	cl212ot	-48.2	1	0	5	5	7734.6		cl212uz	-48.2	1	0	5	5	7734.6	
2 4	2708	10	5	3	3	4 4 -500.00	0.0	5000.0	0.00	0.25	0.0	-20.0	7520.0	cl212ot	80.5	0	0	5	5	7734.6		cl212uz	80.5	0	0	5	5	7734.6	
2 4	503	5	10	3	3	4 4 -500.00	0.0	5000.0	0.00	0.35	0.0	-20.0	3680.0	cl212ot	-62.6	1	0	4	4	3894.6		cl212uz	-62.6	1	0	4	4	3894.6	
2 4	503	10	5	3	3	4 4 -500.00	0.0	5000.0	0.00	0.35	0.0	-20.0	3680.0	cl212ot	66.1	0	0	4	4	3894.6		cl212uz	66.1	0	0	4	4	3894.6	
2 4	1259	5	10	3	3	4 4 -500.00	0.0	5000.0	0.00	0.35	0.0	-20.0	3720.0	cl212ot	-48.1	1	0	4	4	3934.6		cl212uz	-48.1	1	0	4	4	3934.6	
2 4	1259	10	5	3	3	4 4 -500.00	0.0	5000.0	0.00	0.35	0.0	-20.0	3720.0	cl212ot	66.1	0	0	4	4	3934.6		cl212uz	66.1	0	0	4	4	3934.6	
2 4	2015	5	10	3	3	4 4 -500.00	0.0	5000.0	0.00	0.35	0.0	-20.0	7480.0	cl212ot	53.8	0	0	5	5	7736.2		cl212uz	53.8	0	0	5	5	7736.2	
2 4	2771	5	10	3	3	4 4 -500.00	0.0	5000.0	0.00	0.35	0.0	-20.0	7520.0	cl212ot	53.8	0	0	5	5	7776.2		cl212uz	53.8	0	0	5	5	7776.2	
2 4	755	5	10	3	3	4 4 -500.00	400.0	5000.0	0.00	0.35	0.0	-20.0	3680.0	cl212ot	-86.6	1	0	4	4	3870.6		cl212uz	-86.6	1	0	4	4	3870.6	
2 4	755	10	5	3	3	4 4 -500.00	400.0	5000.0	0.00	0.35	0.0	-20.0	3680.0	cl212ot	42.1	0	0	4	4	3870.6		cl212uz	42.1	0	0	4	4	3870.6	
2 4	1511	5	10	3	3	4 4 -500.00	400.0	5000.0	0.00	0.35	0.0	-20.0	3720.0	cl212ot	-86.6	1	0	4	4	3910.6		cl212uz	-86.6	1	0	4	4	3910.6	
2 4	1511	10	5	3	3	4 4 -500.00	400.0	5000.0	0.00	0.35	0.0	-20.0	3720.0	cl212ot	42.1	0	0	4	4	3910.6		cl212uz	42.1	0	0	4	4	3910.6	
2 4	2267	5	10	3	3	4 4 -500.00	400.0	5000.0	0.00	0.35	0.0	-20.0	7480.0	cl212ot	23.2	1	0	5	5	7705.6		cl212uz	23.2	1	0	5	5	7705.6	
2 4	3023	5	10	3	3	4 4 -500.00	400.0	5000.0	0.00	0.35	0.0	-20.0	7520.0	cl212ot	23.2	0	0	5	5	7745.6		cl212uz	23.2	0	0	5	5	7745.6	
2 4	188	5	10	3	3	4 4 -500.00	-400.0	5000.0	0.00	0.25	0.0	-20.0	3680.0	cl212ot	-42.6	1	0	4	4	3914.6		cl212uz	-42.6	1	0	4	4	3914.6	
2 4	188	10	5	3	3	4 4 -500.00	-400.0	5000.0	0.00	0.25	0.0	-20.0	3680.0	cl212ot	86.1	0	0	4	4	3914.6		cl212uz	86.1	0	0	4	4	3914.6	
2 4	944	5	10	3	3	4 4 -500.00	-400.0	5000.0	0.00	0.25	0.0	-20.0	3720.0	cl212ot	-42.6	1	0	4	4	3954.6		cl212uz	-42.6	1	0	4	4	3954.6	
2 4	944	10	5	3	3	4 4 -500.00	-400.0	5000.0	0.00	0.25	0.0	-20.0	3720.0	cl212ot	86.1	0	0	4	4	3954.6		cl212uz	86.1	0	0	4	4	3954.6	
2 4	1700	5	10	3	3	4 4 -500.00	-400.0	5000.0	0.00	0.25	0.0	-20.0	7480.0	cl212ot	-28.1	0	0	5	5	7714.6		cl212uz	-28.1	0	0	5	5	7714.6	
2 4	2456	5	10	3	3	4 4 -500.00	-400.0	5000.0	0.00	0.25	0.0	-20.0	7520.0	cl212ot	80.5	0	0	5	5	7802.9		cl212uz	80.5	0	0	5	5	7802.9	
2 4	251	5	10	3	3	4 4 -500.00	-400.0	5000.0	0.00	0.35	0.0	-20.0	3680.0	cl212ot	-42.6	1	0	4	4	3914.6		cl212uz	-42.6	1	0	4	4	3914.6	
2 4	251	10	5	3	3	4 4 -500.00	-400.0	5000.0	0.00	0.35	0.0	-20.0	3680.0	cl212ot	86.1	0	0	4	4	3914.6		cl212uz	86.1	0	0	4	4	3914.6	
2 4	1007	5	10	3	3	4 4 -500.00	-400.0	5000.0	0.00	0.35	0.0	-20.0	3720.0	cl212ot	-42.6	1	0	4	4	3954.6		cl212uz	-42.6	1	0	4	4	3954.6	
2 4	1007	10	5	3	3	4 4 -500.00	-400.0	5000.0	0.00	0.35	0.0	-20.0	3720.0	cl212ot	86.1	0	0	4	4	3954.6		cl212uz	86.1	0	0	4	4	3954.6	
2 4	1763	5	10	3	3	4 4 -500.00	-400.0	5000.0	0.00	0.35	0.0	-20.0	7480.0	cl212ot	80.5	0	0	5	5	7762.9		cl212uz	80.5	0	0	5	5	7762.9	
2 4	2519	5	10	3	3	4 4 -500.00	-400.0	5000.0	0.00	0.35	0.0	-20.0	7520.0	cl212ot	80.5	0	0	5	5	7802.9		cl212uz	80.5	0	0	5	5	7802.9	
2 4	1169	5	10	3	3	4 4 -750.00	0.0	3000.0	0.00	0.25	0.0	-25.0	3720.0	cl212ot	-25.6	0	1	4	4	3742.5		cl212uz	-25.6	0	1	4	4	3742.5	
2 4	917	5	10	3	3	4 4 -750.00	-400.0	3000.0	0.00	0.25	0.0	-25.0	3720.0	cl212ot	-54.8	0	1	4	4	3736.1		cl212uz	-54.8	0	1	4	4	3736.1	
2 4	252	10	5	3	3	4 4 -750.00	-400.0	5000.0	0.00	0.35	0.0	-20.0	3680.0	cl212ot	-7.0	1	0	4	4	3962.9		cl212uz	-7.0	1	0	4	4	3962.9	
2 4	1008	10	5	3	3	4 4 -750.00	-400.0	5000.0	0.00	0.35	0.0	-20.0	3720.0	cl212ot	-7.0	0	0	4	4	4002.9		cl212uz	-7.0	0	0	4	4	4002.9	
2 4	1764	5	10	3	3	4 4 -750.00	-400.0	5000.0	0.00	0.35	0.0	-20.0	7480.0	cl212ot	-14.2	0	0	5	5	7811.3		cl212uz	-14.2	0	0	5	5	7811.3	
2 4	2520	5	10	3	3	4 4 -750.00	-400.0	5000.0	0.00	0.35	0.0	-20.0	7520.0	cl212ot	-14.2	1	0	5	5	7851.3		cl212uz	-14.2	1	0	5	5	7851.3	
2 4	----------			3	3	4 4 Subtotal = 52 NMACs																									
5 4	2385	5	10	3	3	4 4 -250.00	1000.0	5000.0	0.00	0.15	0.0	-25.0	3720.0	cl515oq	31.5	0	0	4	4	3842.3		cl515xz	31.5	0	0	4	4	3842.3	
5 4	2455	5	10	3	3	4 4 -250.00	1000.0	5000.0	0.00	0.25	0.0	-20.0	3720.0	cl515oq	31.5	0	0	4	4	3842.3		cl515xz	31.5	0	0	4	4	3842.3	
5 4	5479	5	10	3	3	4 4 -250.00	1000.0	5000.0	0.00	0.25	0.0	-20.0	7520.0	cl515oq	42.8	0	0	5	5	7642.2		cl515xz	42.8	0	0	5	5	7642.2	

CLS TBL	REIT	Modes #1	Modes #2	R,C	R,C	CPA Alt Separat	AC#1 Rate	AC#2 Rate	AC#1 Acc.	AC#2 Acc.	AC#1 Time	AC#2 Time	AC #1 CPA Alt	Cell 3,3 Data File	Cell 3,3 Achieved Separatn	Cell 3,3 N	Cell 3,3 C	Cell 3,3 I	Cell 3,3 RAS 1	Cell 3,3 RAS 2	Cell 3,3 Own Alt CPA	Cell 3,3 Ach	Cell 4,4 Data File	Cell 4,4 Achieved Separatn	Cell 4,4 N	Cell 4,4 C	Cell 4,4 I	Cell 4,4 RAS 1	Cell 4,4 RAS 2	Cell 4,4 Own Alt CPA	Cell 4,4 Ach
5 4	1006	5	10	3 3	4 4	-250.00	1000.0	5000.0	0.00	0.35	0.0	-20.0	3680.0	cl515oq	31.5	1	0	4	4	3802.3		cl515xz	31.5	1	0	4	4	3802.3	
5 4	2518	5	10	3 3	4 4	-250.00	1000.0	5000.0	0.00	0.35	0.0	-20.0	3720.0	cl515oq	94.3	0	0	4	4	3867.3		cl515xz	94.3	0	0	4	4	3867.3	
5 4	1195	5	10	3 3	4 4	-250.00	3000.0	5000.0	0.00	0.25	0.0	-20.0	3680.0	cl515oq	21.9	0	0	4	4	3680.0		cl515xz	21.9	0	0	4	4	3680.0	
5 4	2707	5	10	3 3	4 4	-250.00	3000.0	5000.0	0.00	0.25	0.0	-20.0	3720.0	cl515oq	90.2	0	0	4	4	3720.0		cl515xz	90.2	0	0	4	4	3720.0	
5 4	4219	5	10	3 3	4 4	-250.00	3000.0	5000.0	0.00	0.25	0.0	-20.0	7480.0	cl515oq	47.6	0	0	5	5	7480.0		cl515xz	47.6	0	0	5	5	7480.0	
5 4	1258	5	10	3 3	4 4	-250.00	3000.0	5000.0	0.00	0.35	0.0	-20.0	3680.0	cl515oq	90.2	0	0	4	4	3680.0		cl515xz	90.2	0	0	4	4	3680.0	
5 4	691	5	10	3 3	4 4	-250.00	-1000.0	5000.0	0.00	0.25	0.0	-20.0	3680.0	cl515oq	93.7	0	0	4	4	3878.9		cl515xz	93.7	0	0	4	4	3878.9	
5 4	2203	5	10	3 3	4 4	-250.00	-1000.0	5000.0	0.00	0.25	0.0	-20.0	3720.0	cl515oq	78.2	0	0	4	4	3903.4		cl515xz	78.2	0	0	4	4	3903.4	
5 4	2141	5	10	3 3	4 4	-500.00	-1000.0	5000.0	0.00	0.15	0.0	-20.0	3720.0	cl515oq	80.3	0	0	4	4	3977.2		cl515xz	80.3	0	0	4	4	3977.2	
5 4	692	5	10	3 3	4 4	-500.00	-1000.0	5000.0	0.00	0.25	0.0	-20.0	3680.0	cl515oq	98.7	0	0	4	4	3995.6		cl515xz	98.7	0	0	4	4	3995.6	
5 4	2204	5	10	3 3	4 4	-500.00	-1000.0	5000.0	0.00	0.25	0.0	-20.0	3720.0	cl515oq	98.7	0	0	4	4	4035.6		cl515xz	98.7	0	0	4	4	4035.6	
5 4	5228	5	10	3 3	4 4	-500.00	-1000.0	5000.0	0.00	0.25	0.0	-20.0	7520.0	cl515oq	98.7	0	0	5	5	7835.6		cl515xz	98.7	0	0	5	5	7835.6	
5 4	1952	5	10	3 3	4 4	-500.00	-3000.0	5000.0	0.00	0.25	0.0	-20.0	3720.0	cl515oq	98.4	0	0	4	4	4035.3		cl515xz	98.4	0	0	4	4	4035.3	
5 4	2177	5	10	3 3	4 4	-750.00	-1000.0	3000.0	0.00	0.25	0.0	-25.0	3720.0	cl515oq	-54.8	0	1	4	4	3736.1		cl515xz	-54.8	0	1	4	4	3736.1	
5 4	693	10	5	3 3	4 4	-750.00	-1000.0	5000.0	0.00	0.25	0.0	-20.0	3680.0	cl515oq	54.1	0	0	4	4	3995.6		cl515xz	54.1	0	0	4	4	3995.6	
5 4	2205	5	10	3 3	4 4	-750.00	-1000.0	5000.0	0.00	0.25	0.0	-20.0	3720.0	cl515oq	7.6	1	0	4	4	4093.9		cl515xz	7.6	1	0	4	4	4093.9	
5 4	5229	5	10	3 3	4 4	-750.00	-1000.0	5000.0	0.00	0.25	0.0	-20.0	7520.0	cl515oq	7.6	1	0	5	5	7893.9		cl515xz	7.6	1	0	5	5	7893.9	
5 4	756	5	10	3 3	4 4	-750.00	-1000.0	5000.0	0.00	0.35	0.0	-20.0	3680.0	cl515oq	7.6	0	0	4	4	4053.9		cl515xz	7.6	0	0	4	4	4053.9	
5 4	756	10	5	3 3	4 4	-750.00	-1000.0	5000.0	0.00	0.35	0.0	-20.0	3680.0	cl515oq	84.0	0	0	4	4	4053.9		cl515xz	84.0	0	0	4	4	4053.9	
5 4	3780	5	10	3 3	4 4	-750.00	-1000.0	5000.0	0.00	0.35	0.0	-20.0	7480.0	cl515oq	28.5	0	0	5	5	7853.9		cl515xz	28.5	0	0	5	5	7853.9	
5 4	441	5	10	3 3	4 4	-750.00	-3000.0	5000.0	0.00	0.25	0.0	-20.0	3680.0	cl515oq	37.8	0	0	4	4	4084.1		cl515xz	37.8	0	0	4	4	4084.1	
5 4	3465	5	10	3 3	4 4	-750.00	-3000.0	5000.0	0.00	0.25	0.0	-20.0	7480.0	cl515oq	37.8	0	0	5	5	7884.1		cl515xz	37.8	0	0	5	5	7884.1	
5 4	504	5	10	3 3	4 4	-750.00	-3000.0	5000.0	0.00	0.35	0.0	-20.0	3680.0	cl515oq	60.5	0	0	4	4	4106.8		cl515xz	60.5	0	0	4	4	4106.8	
5 4	----------			3 3	4 4	Subtotal =	26	NMACs																						
6 3	2552	5	10	3 3		0.00	3000.0	-3000.0	0.00	0.05	0.0	-25.0	3720.0	cl616oq	73.6	0	0	3	5	3687.8										
6 3	----------			3 3		Subtotal =	1	NMACs																						
6 3	81	5	10	3 3	4 4	0.00	-5000.0	-5000.0	0.00	0.15	0.0	-20.0	3680.0	cl616oq	90.6	0	0	4	4	3716.2		cl616xz	90.6	0	0	4	4	3716.2	
6 3	1593	5	10	3 3	4 4	0.00	-5000.0	-5000.0	0.00	0.15	0.0	-20.0	3720.0	cl616oq	70.5	0	0	4	4	3736.1		cl616xz	70.5	0	0	4	4	3736.1	
6 3	3105	5	10	3 3	4 4	0.00	-5000.0	-5000.0	0.00	0.15	0.0	-20.0	7480.0	cl616oq	90.6	0	0	5	5	7516.2		cl616xz	90.6	0	0	5	5	7516.2	
6 3	4617	5	10	3 3	4 4	0.00	-5000.0	-5000.0	0.00	0.15	0.0	-20.0	7520.0	cl616oq	70.5	0	0	5	5	7536.1		cl616xz	70.5	0	0	5	5	7536.1	
6 3	----------			3 3	4 4	Subtotal =	4	NMACs																						
6 3	1362	5	10		4 4	0.00	5000.0	-3000.0	0.00	0.15	0.0	-20.0	3680.0										cl616xz	50.7	0	1	4	4	3680.0	
6 3	1334	5	10		4 4	0.00	5000.0	-5000.0	0.00	0.15	0.0	-25.0	3680.0										cl616xz	-9.5	0	0	3	5	3648.0	
6 3	2846	5	10		4 4	0.00	5000.0	-5000.0	0.00	0.15	0.0	-25.0	3720.0										cl616xz	50.7	0	1	4	4	3720.0	
6 3	5870	5	10		4 4	0.00	5000.0	-5000.0	0.00	0.15	0.0	-25.0	7520.0										cl616xz	50.7	0	1	5	5	7520.0	
6 3	2839	5	10		4 4	0.00	5000.0	-5000.0	0.00	0.15	0.0	-30.0	3720.0										cl616xz	22.5	0	1	4	4	3720.0	
6 3	2839	10	5		4 4	0.00	5000.0	-5000.0	0.00	0.15	0.0	-30.0	3720.0										cl616xz	22.5	0	1	4	4	3720.0	
6 3	5863	5	10		4 4	0.00	5000.0	-5000.0	0.00	0.15	0.0	-30.0	7520.0										cl616xz	22.5	0	1	5	5	7520.0	
6 3	5863	10	5		4 4	0.00	5000.0	-5000.0	0.00	0.15	0.0	-30.0	7520.0										cl616xz	22.5	0	1	5	5	7520.0	
6 3	2979	5	10		4 4	0.00	5000.0	-5000.0	0.00	0.35	0.0	-20.0	3720.0										cl616xz	5.6	0	1	4	4	3720.0	
6 3	2979	10	5		4 4	0.00	5000.0	-5000.0	0.00	0.35	0.0	-20.0	3720.0										cl616xz	22.5	0	1	4	4	3720.0	
6 3	----------				4 4	Subtotal =	10	NMACs																						
6 4	1153	5	10	3 3		-250.00	3000.0	-5000.0	0.00	0.25	0.0	-20.0	3680.0	cl616oq	6.3	0	1	4	4	3680.0										
6 4	2665	5	10	3 3		-250.00	3000.0	-5000.0	0.00	0.25	0.0	-20.0	3720.0	cl616oq	6.3	0	1	4	4	3720.0										
6 4	4177	5	10	3 3		-250.00	3000.0	-5000.0	0.00	0.25	0.0	-20.0	7480.0	cl616oq	99.4	0	1	5	5	7480.0										
6 4	5689	5	10	3 3		-250.00	3000.0	-5000.0	0.00	0.25	0.0	-20.0	7520.0	cl616oq	47.9	0	1	5	5	7520.0										
6 4	1216	5	10	3 3		-250.00	3000.0	-5000.0	0.00	0.35	0.0	-20.0	3680.0	cl616oq	89.6	0	1	4	4	3680.0										
6 4	2728	5	10	3 3		-250.00	3000.0	-5000.0	0.00	0.35	0.0	-20.0	3720.0	cl616oq	47.9	0	1	4	4	3720.0										
6 4	4240	5	10	3 3		-250.00	3000.0	-5000.0	0.00	0.35	0.0	-20.0	7480.0	cl616oq	89.6	0	1	5	5	7480.0										
6 4	5752	5	10	3 3		-250.00	3000.0	-5000.0	0.00	0.35	0.0	-20.0	7520.0	cl616oq	47.9	0	1	5	5	7520.0										
6 4	1468	5	10	3 3		-250.00	5000.0	-5000.0	0.00	0.35	0.0	-20.0	3680.0	cl616oq	89.6	0	1	3	4	3680.0										
6 4	2980	5	10	3 3		-250.00	5000.0	-5000.0	0.00	0.35	0.0	-20.0	3720.0	cl616oq	47.9	0	1	4	4	3720.0										
6 4	4492	5	10	3 3		-250.00	5000.0	-5000.0	0.00	0.35	0.0	-20.0	7480.0	cl616oq	89.6	0	1	5	5	7480.0										
6 4	6004	5	10	3 3		-250.00	5000.0	-5000.0	0.00	0.35	0.0	-20.0	7520.0	cl616oq	47.9	0	1	5	5	7520.0										
6 4	1168	5	10	3 3		-500.00	3000.0	-3000.0	0.00	0.25	0.0	-25.0	3680.0	cl616oq	47.9	0	1	4	4	3680.0										
6 4	1168	10	5	3 3		-500.00	3000.0	-3000.0	0.00	0.25	0.0	-25.0	3680.0	cl616oq	47.9	0	1	4	4	3680.0										
6 4	2680	5	10	3 3		-500.00	3000.0	-3000.0	0.00	0.25	0.0	-25.0	3720.0	cl616oq	47.9	0	1	4	4	3720.0										
6 4	2680	10	5	3 3		-500.00	3000.0	-3000.0	0.00	0.25	0.0	-25.0	3720.0	cl616oq	47.9	0	1	4	4	3720.0										
6 4	1077	5	10	3 3		-500.00	3000.0	-5000.0	0.00	0.15	0.0	-30.0	3680.0	cl616oq	70.7	0	1	4	4	3680.0										
6 4	1077	10	5	3 3		-500.00	3000.0	-5000.0	0.00	0.15	0.0	-30.0	3680.0	cl616oq	70.7	0	1	4	4	3680.0										

CLS TBL	REIT	Mode S #1	Mode S #2	R,C	R,C	CPA Alt Separat	AC#1 Rate	AC#2 Rate	AC#1 Acc.	AC#2 Acc.	AC#1 Time	AC#2 Time	AC #1 CPA Alt	Cell 3,3 Data File	Cell 3,3 Achieved Separatn	C	I	RAS 1	RAS 2	Own Alt CPA	Own Alt Ach	Cell 4,4 Data File	Cell 4,4 Achieved Separatn	C	I	RAS 1	RAS 2	Own Alt CPA	Own Alt Ach
6 4	1147	5	10	3	3	-500.00	3000.0	-5000.0	0.00	0.25	0.0	-25.0	3680.0	cl616oq	6.3	0	1	4	4	3680.0									
6 4	1147	10	5	3	3	-500.00	3000.0	-5000.0	0.00	0.25	0.0	-25.0	3680.0	cl616oq	57.8	0	1	4	4	3680.0									
6 4	2659	5	10	3	3	-500.00	3000.0	-5000.0	0.00	0.25	0.0	-25.0	3720.0	cl616oq	-35.4	0	1	4	4	3720.0									
6 4	2659	10	5	3	3	-500.00	3000.0	-5000.0	0.00	0.25	0.0	-25.0	3720.0	cl616oq	57.8	0	1	4	4	3720.0									
6 4	4171	5	10	3	3	-500.00	3000.0	-5000.0	0.00	0.25	0.0	-25.0	7480.0	cl616oq	6.2	0	1	5	5	7480.0									
6 4	5683	5	10	3	3	-500.00	3000.0	-5000.0	0.00	0.25	0.0	-25.0	7520.0	cl616oq	-35.4	0	1	5	5	7520.0									
6 4	1217	5	10	3	3	-500.00	3000.0	-5000.0	0.00	0.35	0.0	-20.0	3680.0	cl616oq	-77.1	0	1	4	5	3680.0									
6 4	1217	10	5	3	3	-500.00	3000.0	-5000.0	0.00	0.35	0.0	-20.0	3680.0	cl616oq	-77.1	0	1	4	4	3680.0									
6 4	2729	5	10	3	3	-500.00	3000.0	-5000.0	0.00	0.35	0.0	-20.0	3720.0	cl616oq	-77.1	0	1	4	5	3720.0									
6 4	2729	10	5	3	3	-500.00	3000.0	-5000.0	0.00	0.35	0.0	-20.0	3720.0	cl616oq	-77.1	0	1	4	5	3720.0									
6 4	4241	5	10	3	3	-500.00	3000.0	-5000.0	0.00	0.35	0.0	-20.0	7480.0	cl616oq	32.3	0	1	5	5	7480.0									
6 4	4241	10	5	3	3	-500.00	3000.0	-5000.0	0.00	0.35	0.0	-20.0	7480.0	cl616oq	32.3	0	1	5	5	7480.0									
6 4	5753	5	10	3	3	-500.00	3000.0	-5000.0	0.00	0.35	0.0	-20.0	7520.0	cl616oq	-30.0	0	1	5	5	7520.0									
6 4	5753	10	5	3	3	-500.00	3000.0	-5000.0	0.00	0.35	0.0	-20.0	7520.0	cl616oq	-30.0	0	1	5	5	7520.0									
6 4	4234	5	10	3	3	-500.00	3000.0	-5000.0	0.00	0.35	0.0	-25.0	7480.0	cl616oq	6.2	0	1	5	5	7480.0									
6 4	4234	10	5	3	3	-500.00	3000.0	-5000.0	0.00	0.35	0.0	-25.0	7480.0	cl616oq	89.6	0	1	5	5	7480.0									
6 4	5746	5	10	3	3	-500.00	3000.0	-5000.0	0.00	0.35	0.0	-25.0	7520.0	cl616oq	47.9	0	1	5	5	7520.0									
6 4	5746	10	5	3	3	-500.00	3000.0	-5000.0	0.00	0.35	0.0	-25.0	7520.0	cl616oq	89.6	0	1	5	5	7520.0									
6 4	1329	5	10	3	3	-500.00	5000.0	-5000.0	0.00	0.15	0.0	-30.0	3680.0	cl616oq	70.7	0	1	3	4	3680.0									
6 4	1329	10	5	3	3	-500.00	5000.0	-5000.0	0.00	0.15	0.0	-30.0	3680.0	cl616oq	70.7	0	1	3	4	3680.0									
6 4	1399	5	10	3	3	-500.00	5000.0	-5000.0	0.00	0.25	0.0	-25.0	3680.0	cl616oq	6.3	0	1	3	4	3680.0									
6 4	1399	10	5	3	3	-500.00	5000.0	-5000.0	0.00	0.25	0.0	-25.0	3680.0	cl616oq	57.8	0	1	3	4	3680.0									
6 4	2911	5	10	3	3	-500.00	5000.0	-5000.0	0.00	0.25	0.0	-25.0	3720.0	cl616oq	-35.4	0	1	3	4	3720.0									
6 4	2911	10	5	3	3	-500.00	5000.0	-5000.0	0.00	0.25	0.0	-25.0	3720.0	cl616oq	57.8	0	1	3	4	3720.0									
6 4	4423	5	10	3	3	-500.00	5000.0	-5000.0	0.00	0.25	0.0	-25.0	7480.0	cl616oq	6.2	0	1	5	5	7480.0									
6 4	5935	5	10	3	3	-500.00	5000.0	-5000.0	0.00	0.25	0.0	-25.0	7520.0	cl616oq	-35.4	0	1	5	5	7520.0									
6 4	4486	5	10	3	3	-500.00	5000.0	-5000.0	0.00	0.35	0.0	-25.0	7480.0	cl616oq	6.2	0	1	5	5	7480.0									
6 4	4486	10	5	3	3	-500.00	5000.0	-5000.0	0.00	0.35	0.0	-25.0	7480.0	cl616oq	89.6	0	1	5	5	7480.0									
6 4	5998	5	10	3	3	-500.00	5000.0	-5000.0	0.00	0.35	0.0	-25.0	7520.0	cl616oq	47.9	0	1	5	5	7520.0									
6 4	5998	10	5	3	3	-500.00	5000.0	-5000.0	0.00	0.35	0.0	-25.0	7520.0	cl616oq	89.6	0	1	5	5	7520.0									
6 4	1658	10	5	3	3	-500.00	-5000.0	-5000.0	0.00	0.25	0.0	-20.0	3720.0	cl616oq	-99.0	1	0	5	4	3864.8									
6 4	4682	10	5	3	3	-500.00	-5000.0	-5000.0	0.00	0.25	0.0	-20.0	7520.0	cl616oq	-99.0	1	0	5	5	7664.8									
6 4	----------			3	3	Subtotal =	50	NMACs																					
6 4	145	5	10	3	3	4 4 -250.00	-5000.0	-5000.0	0.00	0.25	0.0	-20.0	3680.0	cl616oq	67.7	0	0	5	4	3824.8	cl616xz	67.7	0	0	5	4	3824.8
6 4	1657	5	10	3	3	4 4 -250.00	-5000.0	-5000.0	0.00	0.25	0.0	-20.0	3720.0	cl616oq	67.7	0	0	5	4	3864.8	cl616xz	67.7	0	0	5	4	3864.8
6 4	3169	5	10	3	3	4 4 -250.00	-5000.0	-5000.0	0.00	0.25	0.0	-20.0	7480.0	cl616oq	67.7	0	0	5	5	7624.8	cl616xz	67.7	0	0	5	5	7624.8
6 4	4681	5	10	3	3	4 4 -250.00	-5000.0	-5000.0	0.00	0.25	0.0	-20.0	7520.0	cl616oq	82.2	0	0	5	5	7679.3	cl616xz	82.2	0	0	5	5	7679.3
6 4	1720	5	10	3	3	4 4 -250.00	-5000.0	-5000.0	0.00	0.35	0.0	-20.0	3720.0	cl616oq	67.7	0	0	5	4	3864.8	cl616xz	67.7	0	0	5	4	3864.8
6 4	4744	5	10	3	3	4 4 -250.00	-5000.0	-5000.0	0.00	0.35	0.0	-20.0	7520.0	cl616oq	82.2	0	0	5	5	7679.3	cl616xz	82.2	0	0	5	5	7679.3
6 4	146	10	5	3	3	4 4 -500.00	-5000.0	-5000.0	0.00	0.25	0.0	-20.0	3680.0	cl616oq	55.3	0	0	5	4	3937.4	cl616xz	54.1	0	0	5	4	3937.4
6 4	3170	10	5	3	3	4 4 -500.00	-5000.0	-5000.0	0.00	0.25	0.0	-20.0	7480.0	cl616oq	55.3	0	0	5	5	7737.4	cl616xz	54.1	0	0	5	5	7737.4
6 4	1721	10	5	3	3	4 4 -500.00	-5000.0	-5000.0	0.00	0.35	0.0	-20.0	3720.0	cl616oq	81.0	0	0	5	4	4003.1	cl616xz	81.0	0	0	5	4	4003.1
6 4	4745	10	5	3	3	4 4 -500.00	-5000.0	-5000.0	0.00	0.35	0.0	-20.0	7520.0	cl616oq	81.0	0	0	5	5	7803.1	cl616xz	81.0	0	0	5	5	7803.1
6 4	----------			3	3	4 4 Subtotal =	10	NMACs																					
6 4	1588	5	10			4 4 -500.00	-5000.0	-5000.0	0.00	0.15	0.0	-25.0	3720.0									cl616xz	18.2	0	0	5	4	3977.4
6 4	4612	5	10			4 4 -500.00	-5000.0	-5000.0	0.00	0.15	0.0	-25.0	7520.0									cl616xz	18.2	0	0	5	5	7777.4
6 4	----------					4 4 Subtotal =	2	NMACs																					
7 3	2559	5	10	3	3	4 4 0.00	5000.0	-3000.0	0.15	-0.05	-25.0	-20.0	3700.0	CL7170	-35.4	1	0	4	4	3683.9	cl717wz	-35.4	1	0	4	4	3683.9
7 3	2559	10	5	3	3	4 4 0.00	5000.0	-3000.0	0.15	-0.05	-25.0	-20.0	3700.0	cl717p	-93.3	1	0	4	4	3683.9	cl717wz	-93.3	1	0	4	4	3683.9
7 3	2538	5	10	3	3	4 4 0.00	5000.0	-5000.0	0.15	-0.05	-25.0	-20.0	3700.0	CL7170	-35.4	1	0	4	4	3683.9	cl717wz	-35.4	1	0	4	4	3683.9
7 3	2538	10	5	3	3	4 4 0.00	5000.0	-5000.0	0.15	-0.05	-25.0	-20.0	3700.0	cl717p	-93.3	1	0	4	4	3683.9	cl717wz	-93.3	1	0	4	4	3683.9
7 3	----------			3	3	4 4 Subtotal =	4	NMACs																					
7 4	3907	10	5	3	3	750.00	3000.0	-5000.0	0.25	-0.35	-25.0	-30.0	3700.0	cl717p	-73.9	0	0	4	4	3020.9									
7 4	7344	5	10	3	3	750.00	5000.0	-3000.0	0.15	-0.25	-25.0	-20.0	7500.0	CL7170	-71.3	0	0	5	5	7082.8									
7 4	----------			3	3	Subtotal =	2	NMACs																					
7 4	164	10	5	3	3	4 4 250.00	1000.0	-3000.0	0.05	-0.15	-25.0	-20.0	3700.0	cl717p	-61.3	0	0	4	4	3559.2	cl717wz	-61.3	0	0	4	4	3559.2
7 4	4700	10	5	3	3	4 4 250.00	1000.0	-3000.0	0.05	-0.15	-25.0	-20.0	7500.0	cl717p	-61.3	0	0	5	5	7359.2	cl717wz	-61.3	0	0	5	5	7359.2
7 4	143	10	5	3	3	4 4 250.00	1000.0	-5000.0	0.05	-0.15	-25.0	-20.0	3700.0	cl717p	-89.9	0	0	4	4	3573.7	cl717wz	-89.9	0	0	4	4	3573.7
7 4	528	5	10	3	3	4 4 250.00	3000.0	-3000.0	0.05	-0.05	-25.0	-30.0	3700.0	CL7170	81.1	1	0	4	4	3622.8	cl717wz	81.1	1	0	4	4	3622.8

CLS TBL	REIT	Modes #1	Modes #2	R,C	R,C	CPA Alt Separat	AC#1 Rate	AC#2 Rate	AC#1 Acc.	AC#2 Acc.	AC#1 Time	AC#2 Time	AC #1 CPA Alt	Cell 3,3 Data File	Cell 3,3 Achieved Separatn	C N	C C	I 1	RAS 2	Cell 3,3 Own Alt CPA Ach	Cell 4,4 Data File	Cell 4,4 Achieved Separatn	C N	C C	I 1	RAS 2	Cell 4,4 Own Alt CPA Ach
7 4	528	10	5	3	3	250.00	3000.0	-3000.0	0.05	-0.05	-25.0	-30.0	3700.0	cl717p	-15.4	1	0	4	4	3622.8	cl717wz	-15.4	1	0	4	4	3622.8
7 4	668	10	5	3	3	250.00	3000.0	-3000.0	0.05	-0.15	-25.0	-20.0	3700.0	cl717p	-41.2	0	0	4	4	3553.6	cl717wz	-41.2	0	0	4	4	3553.6
7 4	507	5	10	3	3	250.00	3000.0	-5000.0	0.05	-0.05	-25.0	-30.0	3700.0	CL7170	81.1	1	0	4	4	3622.8	cl717wz	81.1	1	0	4	4	3622.8
7 4	507	10	5	3	3	250.00	3000.0	-5000.0	0.05	-0.05	-25.0	-30.0	3700.0	cl717p	-15.4	1	0	4	4	3622.8	cl717wz	-15.4	1	0	4	4	3622.8
7 4	647	10	5	3	3	250.00	3000.0	-5000.0	0.05	-0.15	-25.0	-20.0	3700.0	cl717p	-98.8	0	0	4	4	3564.9	cl717wz	-98.8	0	0	4	4	3564.9
7 4	5183	10	5	3	3	250.00	3000.0	-5000.0	0.05	-0.15	-25.0	-20.0	7500.0	cl717p	-98.8	0	0	5	5	7364.9	cl717wz	-98.8	0	0	5	5	7364.9
7 4	773	10	5	3	3	250.00	3000.0	-5000.0	0.05	-0.25	-25.0	-20.0	3700.0	cl717p	-55.6	0	0	4	4	3539.1	cl717wz	-55.6	0	0	4	4	3539.1
7 4	2712	10	5	3	3	250.00	5000.0	1000.0	0.15	0.15	-25.0	-30.0	3700.0	cl717p	-42.0	0	0	4	4	3555.2	cl717wz	-42.0	0	0	4	4	3555.2
7 4	2838	10	5	3	3	250.00	5000.0	1000.0	0.15	0.25	-25.0	-30.0	3700.0	cl717p	-42.0	0	0	4	4	3555.2	cl717wz	-42.0	0	0	4	4	3555.2
7 4	2964	10	5	3	3	250.00	5000.0	1000.0	0.15	0.35	-25.0	-30.0	3700.0	cl717p	-42.0	0	0	4	4	3555.2	cl717wz	-42.0	0	0	4	4	3555.2
7 4	2579	5	10	3	3	250.00	5000.0	-1000.0	0.15	-0.05	-25.0	-20.0	3700.0	CL7170	95.6	1	0	4	4	3635.7	cl717wz	95.6	1	0	4	4	3635.7
7 4	2579	10	5	3	3	250.00	5000.0	-1000.0	0.15	-0.05	-25.0	-20.0	3700.0	cl717p	-13.2	1	0	4	4	3635.7	cl717wz	-13.2	1	0	4	4	3635.7
7 4	7115	10	5	3	3	250.00	5000.0	-1000.0	0.15	-0.05	-25.0	-20.0	7500.0	cl717p	-93.7	0	0	5	5	7355.2	cl717wz	-93.7	0	0	5	5	7355.2
7 4	1032	5	10	3	3	250.00	5000.0	-3000.0	0.05	-0.05	-25.0	-30.0	3700.0	CL7170	81.1	1	0	4	4	3622.8	cl717wz	81.1	1	0	4	4	3622.8
7 4	1032	10	5	3	3	250.00	5000.0	-3000.0	0.05	-0.05	-25.0	-30.0	3700.0	cl717p	-15.4	1	0	4	4	3622.8	cl717wz	-15.4	1	0	4	4	3622.8
7 4	1172	10	5	3	3	250.00	5000.0	-3000.0	0.05	-0.15	-25.0	-20.0	3700.0	cl717p	-41.2	0	0	4	4	3553.6	cl717wz	-41.2	0	0	4	4	3553.6
7 4	2558	5	10	3	3	250.00	5000.0	-3000.0	0.15	-0.05	-25.0	-20.0	3700.0	CL7170	82.7	1	0	4	4	3635.7	cl717wz	82.7	1	0	4	4	3635.7
7 4	2558	10	5	3	3	250.00	5000.0	-3000.0	0.15	-0.05	-25.0	-20.0	3700.0	cl717p	-45.5	1	0	4	4	3635.7	cl717wz	-45.5	1	0	4	4	3635.7
7 4	7094	5	10	3	3	250.00	5000.0	-3000.0	0.15	-0.05	-25.0	-20.0	7500.0	CL7170	82.7	1	0	5	5	7435.7	cl717wz	82.7	1	0	5	5	7435.7
7 4	7094	10	5	3	3	250.00	5000.0	-3000.0	0.15	-0.05	-25.0	-20.0	7500.0	cl717p	-45.5	1	0	5	5	7435.7	cl717wz	-45.5	1	0	5	5	7435.7
7 4	2551	10	5	3	3	250.00	5000.0	-3000.0	0.15	-0.05	-25.0	-25.0	3700.0	cl717p	-50.0	1	0	4	4	3599.5	cl717wz	-50.0	1	0	4	4	3599.5
7 4	2684	10	5	3	3	250.00	5000.0	-3000.0	0.15	-0.15	-25.0	-20.0	3700.0	cl717p	-9.8	1	0	4	4	3599.5	cl717wz	-9.8	1	0	4	4	3599.5
7 4	7220	10	5	3	3	250.00	5000.0	-3000.0	0.15	-0.15	-25.0	-20.0	7500.0	cl717p	-9.8	1	0	5	5	7399.5	cl717wz	-9.8	1	0	5	5	7399.5
7 4	1011	5	10	3	3	250.00	5000.0	-5000.0	0.05	-0.05	-25.0	-30.0	3700.0	CL7170	81.1	1	0	4	4	3622.8	cl717wz	81.1	1	0	4	4	3622.8
7 4	1011	10	5	3	3	250.00	5000.0	-5000.0	0.05	-0.05	-25.0	-30.0	3700.0	cl717p	-15.4	1	0	4	4	3622.8	cl717wz	-15.4	1	0	4	4	3622.8
7 4	1151	10	5	3	3	250.00	5000.0	-5000.0	0.05	-0.15	-25.0	-20.0	3700.0	cl717p	-98.8	0	0	4	4	3564.9	cl717wz	-98.8	0	0	4	4	3564.9
7 4	5687	10	5	3	3	250.00	5000.0	-5000.0	0.05	-0.15	-25.0	-20.0	7500.0	cl717p	-98.8	0	0	5	5	7364.9	cl717wz	-98.8	0	0	5	5	7364.9
7 4	1277	10	5	3	3	250.00	5000.0	-5000.0	0.05	-0.25	-25.0	-20.0	3700.0	cl717p	-55.6	0	0	4	4	3539.1	cl717wz	-55.6	0	0	4	4	3539.1
7 4	2537	5	10	3	3	250.00	5000.0	-5000.0	0.15	-0.05	-25.0	-20.0	3700.0	CL7170	82.7	1	0	4	4	3635.7	cl717wz	82.7	1	0	4	4	3635.7
7 4	2537	10	5	3	3	250.00	5000.0	-5000.0	0.15	-0.05	-25.0	-20.0	3700.0	cl717p	-45.5	1	0	4	4	3635.7	cl717wz	-45.5	1	0	4	4	3635.7
7 4	7073	5	10	3	3	250.00	5000.0	-5000.0	0.15	-0.05	-25.0	-20.0	7500.0	CL7170	82.7	1	0	5	5	7435.7	cl717wz	82.7	1	0	5	5	7435.7
7 4	7073	10	5	3	3	250.00	5000.0	-5000.0	0.15	-0.05	-25.0	-20.0	7500.0	cl717p	-45.5	1	0	5	5	7435.7	cl717wz	-45.5	1	0	5	5	7435.7
7 4	2530	10	5	3	3	250.00	5000.0	-5000.0	0.15	-0.05	-25.0	-25.0	3700.0	cl717p	-50.0	1	0	4	4	3599.5	cl717wz	-50.0	1	0	4	4	3599.5
7 4	2663	5	10	3	3	250.00	5000.0	-5000.0	0.15	-0.15	-25.0	-20.0	3700.0	CL7170	-89.9	0	0	4	4	3502.9	cl717wz	-89.9	0	0	4	4	3502.9
7 4	2663	10	5	3	3	250.00	5000.0	-5000.0	0.15	-0.15	-25.0	-20.0	3700.0	cl717p	42.8	1	0	4	4	3635.7	cl717wz	42.8	1	0	4	4	3635.7
7 4	7199	5	10	3	3	250.00	5000.0	-5000.0	0.15	-0.15	-25.0	-20.0	7500.0	CL7170	-89.9	0	0	5	5	7302.9	cl717wz	-89.9	0	0	5	5	7302.9
7 4	7199	10	5	3	3	250.00	5000.0	-5000.0	0.15	-0.15	-25.0	-20.0	7500.0	cl717p	42.8	1	0	5	5	7435.7	cl717wz	42.8	1	0	5	5	7435.7
7 4	2656	5	10	3	3	250.00	5000.0	-5000.0	0.15	-0.15	-25.0	-25.0	3700.0	CL7170	-91.8	0	0	4	4	3502.9	cl717wz	-91.8	0	0	4	4	3502.9
7 4	2656	10	5	3	3	250.00	5000.0	-5000.0	0.15	-0.15	-25.0	-25.0	3700.0	cl717p	4.7	1	0	4	4	3599.5	cl717wz	4.7	1	0	4	4	3599.5
7 4	7192	5	10	3	3	250.00	5000.0	-5000.0	0.15	-0.15	-25.0	-25.0	7500.0	CL7170	-91.8	0	0	5	5	7302.9	cl717wz	-91.8	0	0	5	5	7302.9
7 4	7192	10	5	3	3	250.00	5000.0	-5000.0	0.15	-0.15	-25.0	-25.0	7500.0	cl717p	4.7	1	0	5	5	7399.5	cl717wz	4.7	1	0	5	5	7399.5
7 4	2649	10	5	3	3	250.00	5000.0	-5000.0	0.15	-0.15	-25.0	-30.0	3700.0	cl717p	-91.8	1	0	4	4	3555.2	cl717wz	-91.8	1	0	4	4	3555.2
7 4	7185	10	5	3	3	250.00	5000.0	-5000.0	0.15	-0.15	-25.0	-30.0	7500.0	cl717p	-91.8	1	0	5	5	7355.2	cl717wz	-91.8	1	0	5	5	7355.2
7 4	2789	5	10	3	3	250.00	5000.0	-5000.0	0.15	-0.25	-25.0	-20.0	3700.0	CL7170	-91.8	0	0	4	4	3502.9	cl717wz	-91.8	0	0	4	4	3502.9
7 4	2789	10	5	3	3	250.00	5000.0	-5000.0	0.15	-0.25	-25.0	-20.0	3700.0	cl717p	4.7	1	0	4	4	3599.5	cl717wz	4.7	1	0	4	4	3599.5
7 4	7325	5	10	3	3	250.00	5000.0	-5000.0	0.15	-0.25	-25.0	-20.0	7500.0	CL7170	-91.8	0	0	5	5	7302.9	cl717wz	-91.8	0	0	5	5	7302.9
7 4	7325	10	5	3	3	250.00	5000.0	-5000.0	0.15	-0.25	-25.0	-20.0	7500.0	cl717p	4.7	1	0	5	5	7399.5	cl717wz	4.7	1	0	5	5	7399.5
7 4	2915	10	5	3	3	250.00	5000.0	-5000.0	0.15	-0.35	-25.0	-20.0	3700.0	cl717p	-91.8	1	0	4	4	3555.2	cl717wz	-91.8	1	0	4	4	3555.2
7 4	7451	10	5	3	3	250.00	5000.0	-5000.0	0.15	-0.35	-25.0	-20.0	7500.0	cl717p	-91.8	1	0	5	5	7355.2	cl717wz	-91.8	1	0	5	5	7355.2
7 4	135	10	5	3	3	500.00	1000.0	-5000.0	0.05	-0.15	-25.0	-25.0	3700.0	cl717p	-50.5	0	0	4	4	3442.8	cl717wz	-50.5	0	0	4	4	3442.8
7 4	4804	5	10	3	3	500.00	1000.0	-5000.0	0.05	-0.25	-25.0	-20.0	7500.0	CL7170	-38.4	0	0	5	5	7184.4	cl717wz	-38.4	0	0	5	5	7184.4
7 4	4804	10	5	3	3	500.00	1000.0	-5000.0	0.05	-0.25	-25.0	-20.0	7500.0	cl717p	78.3	1	0	5	5	7301.1	cl717wz	78.3	1	0	5	5	7301.1
7 4	394	10	5	3	3	500.00	1000.0	-5000.0	0.05	-0.35	-25.0	-20.0	3700.0	cl717p	-40.4	0	0	4	4	3442.8	cl717wz	-40.4	0	0	4	4	3442.8
7 4	1654	5	10	3	3	500.00	1000.0	-5000.0	0.15	-0.15	-25.0	-20.0	3700.0	CL7170	-79.2	1	0	4	4	3458.3	cl717wz	-79.2	1	0	4	4	3458.3
7 4	6190	5	10	3	3	500.00	1000.0	-5000.0	0.15	-0.15	-25.0	-20.0	7500.0	CL7170	-79.2	1	0	5	5	7258.3	cl717wz	-79.2	1	0	5	5	7258.3
7 4	1780	5	10	3	3	500.00	1000.0	-5000.0	0.15	-0.25	-25.0	-20.0	3700.0	CL7170	-98.7	0	0	4	4	3384.4	cl717wz	-98.7	0	0	4	4	3384.4
7 4	6316	5	10	3	3	500.00	1000.0	-5000.0	0.15	-0.25	-25.0	-20.0	7500.0	CL7170	-98.7	0	0	5	5	7184.4	cl717wz	-98.7	0	0	5	5	7184.4
7 4	3166	5	10	3	3	500.00	1000.0	-5000.0	0.25	-0.15	-25.0	-20.0	3700.0	CL7170	-79.2	1	0	4	4	3458.3	cl717wz	-79.2	1	0	4	4	3458.3
7 4	7702	5	10	3	3	500.00	1000.0	-5000.0	0.25	-0.15	-25.0	-20.0	7500.0	CL7170	-79.2	1	0	5	5	7258.3	cl717wz	-79.2	1	0	5	5	7258.3
7 4	3292	5	10	3	3	500.00	1000.0	-5000.0	0.25	-0.25	-25.0	-20.0	3700.0	CL7170	-98.7	0	0	4	4	3384.4	cl717wz	-98.7	0	0	4	4	3384.4
7 4	7828	5	10	3	3	500.00	1000.0	-5000.0	0.25	-0.25	-25.0	-20.0	7500.0	CL7170	-98.7	0	0	5	5	7184.4	cl717wz	-98.7	0	0	5	5	7184.4
7 4	5329	5	10	3	3	500.00	3000.0	-3000.0	0.05	-0.25	-25.0	-20.0	7500.0	CL7170	2.7	1	0	5	5	7187.7	cl717wz	2.7	1	0	5	5	7187.7
7 4	5182	10	5	3	3	500.00	3000.0	-5000.0	0.05	-0.15	-25.0	-20.0	7500.0	cl717p	53.1	1	0	5	5	7364.9	cl717wz	53.1	1	0	5	5	7364.9
7 4	639	5	10	3	3	500.00	3000.0	-5000.0	0.05	-0.15	-25.0	-25.0	3700.0	CL7170	-23.8	1	0	4	4	3387.7	cl717wz	-23.8	1	0	4	4	3387.7

CLS TBL	REIT	Modes #1	Modes #2	R,C	R,C	CPA Alt Separat	AC#1 Rate	AC#2 Rate	AC#1 Acc.	AC#2 Acc.	AC#1 Time	AC#2 Time	AC #1 CPA Alt	Cell 3,3 Data File	Cell 3,3 Achieved Separatn	C N	I C	RAS 1	RAS 2	Own Alt CPA	Own Alt Ach	Cell 4,4 Data File	Cell 4,4 Achieved Separatn	C N	I C	RAS 1	RAS 2	Own Alt CPA	Own Alt Ach
7 4	772	5	10	3	3	4	4	500.00	3000.0	-5000.0	0.05	-0.25	-25.0	-20.0	3700.0	CL7170	-54.8	0	0	4	4	3356.7	cl717wz	-54.8	0	0	4	4	3356.7
7 4	772	10	5	3	3	4	4	500.00	3000.0	-5000.0	0.05	-0.25	-25.0	-20.0	3700.0	cl717p	74.5	1	0	4	4	3486.1	cl717wz	74.5	1	0	4	4	3486.1
7 4	5308	10	5	3	3	4	4	500.00	3000.0	-5000.0	0.05	-0.25	-25.0	-20.0	7500.0	cl717p	-48.4	0	0	5	5	7223.5	cl717wz	-48.4	0	0	5	5	7223.5
7 4	898	10	5	3	3	4	4	500.00	3000.0	-5000.0	0.05	-0.35	-25.0	-20.0	3700.0	cl717p	-84.2	0	0	4	4	3387.7	cl717wz	-84.2	0	0	4	4	3387.7
7 4	2158	5	10	3	3	4	4	500.00	3000.0	-5000.0	0.15	-0.15	-25.0	-20.0	3700.0	CL7170	-34.6	1	0	4	4	3488.5	cl717wz	-34.6	1	0	4	4	3488.5
7 4	2284	5	10	3	3	4	4	500.00	3000.0	-5000.0	0.15	-0.25	-25.0	-20.0	3700.0	CL7170	-55.0	0	0	4	4	3416.9	cl717wz	-55.0	0	0	4	4	3416.9
7 4	6820	5	10	3	3	4	4	500.00	3000.0	-5000.0	0.15	-0.25	-25.0	-20.0	7500.0	CL7170	-55.0	0	0	5	5	7216.9	cl717wz	-55.0	0	0	5	5	7216.9
7 4	3796	5	10	3	3	4	4	500.00	3000.0	-5000.0	0.25	-0.25	-25.0	-20.0	3700.0	CL7170	-55.0	0	0	4	4	3416.9	cl717wz	-55.0	0	0	4	4	3416.9
7 4	2578	10	5	3	3	4	4	500.00	5000.0	-1000.0	0.15	-0.05	-25.0	-20.0	3700.0	cl717p	2.9	0	0	4	4	3502.9	cl717wz	2.9	0	0	4	4	3502.9
7 4	7114	10	5	3	3	4	4	500.00	5000.0	-1000.0	0.15	-0.05	-25.0	-20.0	7500.0	cl717p	2.9	0	0	5	5	7302.9	cl717wz	2.9	0	0	5	5	7302.9
7 4	2571	5	10	3	3	4	4	500.00	5000.0	-1000.0	0.15	-0.05	-25.0	-25.0	3700.0	CL7170	20.0	0	0	4	4	3477.2	cl717wz	20.0	0	0	4	4	3477.2
7 4	2571	10	5	3	3	4	4	500.00	5000.0	-1000.0	0.15	-0.05	-25.0	-25.0	3700.0	cl717p	-68.0	0	0	4	4	3477.2	cl717wz	-68.0	0	0	4	4	3477.2
7 4	7107	5	10	3	3	4	4	500.00	5000.0	-1000.0	0.15	-0.05	-25.0	-25.0	7500.0	CL7170	-93.3	0	0	5	5	7206.7	cl717wz	-93.3	0	0	5	5	7206.7
7 4	2704	5	10	3	3	4	4	500.00	5000.0	-1000.0	0.15	-0.15	-25.0	-20.0	3700.0	CL7170	20.0	0	0	4	4	3477.2	cl717wz	20.0	0	0	4	4	3477.2
7 4	2704	10	5	3	3	4	4	500.00	5000.0	-1000.0	0.15	-0.15	-25.0	-20.0	3700.0	cl717p	-68.0	0	0	4	4	3477.2	cl717wz	-68.0	0	0	4	4	3477.2
7 4	2830	5	10	3	3	4	4	500.00	5000.0	-1000.0	0.15	-0.25	-25.0	-20.0	3700.0	CL7170	20.0	0	0	4	4	3477.2	cl717wz	20.0	0	0	4	4	3477.2
7 4	2830	10	5	3	3	4	4	500.00	5000.0	-1000.0	0.15	-0.25	-25.0	-20.0	3700.0	cl717p	-68.0	0	0	4	4	3477.2	cl717wz	-68.0	0	0	4	4	3477.2
7 4	2956	5	10	3	3	4	4	500.00	5000.0	-1000.0	0.15	-0.35	-25.0	-20.0	3700.0	CL7170	20.0	0	0	4	4	3477.2	cl717wz	20.0	0	0	4	4	3477.2
7 4	2956	10	5	3	3	4	4	500.00	5000.0	-1000.0	0.15	-0.35	-25.0	-20.0	3700.0	cl717p	-68.0	0	0	4	4	3477.2	cl717wz	-68.0	0	0	4	4	3477.2
7 4	5833	5	10	3	3	4	4	500.00	5000.0	-3000.0	0.05	-0.25	-25.0	-20.0	7500.0	CL7170	2.7	1	0	5	5	7187.7	cl717wz	2.7	1	0	5	5	7187.7
7 4	2557	10	5	3	3	4	4	500.00	5000.0	-3000.0	0.15	-0.05	-25.0	-20.0	3700.0	cl717p	51.6	1	0	4	4	3555.2	cl717wz	51.6	1	0	4	4	3555.2
7 4	7093	10	5	3	3	4	4	500.00	5000.0	-3000.0	0.15	-0.05	-25.0	-20.0	7500.0	cl717p	-55.0	0	0	5	5	7302.9	cl717wz	-55.0	0	0	5	5	7302.9
7 4	2550	10	5	3	3	4	4	500.00	5000.0	-3000.0	0.15	-0.05	-25.0	-25.0	3700.0	cl717p	-85.1	0	0	4	4	3488.5	cl717wz	-85.1	0	0	4	4	3488.5
7 4	2543	10	5	3	3	4	4	500.00	5000.0	-3000.0	0.15	-0.05	-25.0	-30.0	3700.0	cl717p	-61.9	0	0	4	4	3502.9	cl717wz	-61.9	0	0	4	4	3502.9
7 4	2809	5	10	3	3	4	4	500.00	5000.0	-3000.0	0.15	-0.25	-25.0	-20.0	3700.0	CL7170	-69.2	0	0	4	4	3406.7	cl717wz	-69.2	0	0	4	4	3406.7
7 4	2809	10	5	3	3	4	4	500.00	5000.0	-3000.0	0.15	-0.25	-25.0	-20.0	3700.0	cl717p	53.6	1	0	4	4	3529.5	cl717wz	53.6	1	0	4	4	3529.5
7 4	5686	10	5	3	3	4	4	500.00	5000.0	-5000.0	0.05	-0.15	-25.0	-20.0	7500.0	cl717p	53.1	1	0	5	5	7364.9	cl717wz	53.1	1	0	5	5	7364.9
7 4	1143	5	10	3	3	4	4	500.00	5000.0	-5000.0	0.05	-0.15	-25.0	-25.0	3700.0	CL7170	-23.8	1	0	4	4	3387.7	cl717wz	-23.8	1	0	4	4	3387.7
7 4	1276	5	10	3	3	4	4	500.00	5000.0	-5000.0	0.05	-0.25	-25.0	-20.0	3700.0	CL7170	-54.8	0	0	4	4	3356.7	cl717wz	-54.8	0	0	4	4	3356.7
7 4	1276	10	5	3	3	4	4	500.00	5000.0	-5000.0	0.05	-0.25	-25.0	-20.0	3700.0	cl717p	74.5	1	0	4	4	3486.1	cl717wz	74.5	1	0	4	4	3486.1
7 4	5812	10	5	3	3	4	4	500.00	5000.0	-5000.0	0.05	-0.25	-25.0	-20.0	7500.0	cl717p	-48.4	0	0	5	5	7223.5	cl717wz	-48.4	0	0	5	5	7223.5
7 4	1402	10	5	3	3	4	4	500.00	5000.0	-5000.0	0.05	-0.35	-25.0	-20.0	3700.0	cl717p	-84.2	0	0	4	4	3387.7	cl717wz	-84.2	0	0	4	4	3387.7
7 4	2536	10	5	3	3	4	4	500.00	5000.0	-5000.0	0.15	-0.05	-25.0	-20.0	3700.0	cl717p	51.6	1	0	4	4	3555.2	cl717wz	51.6	1	0	4	4	3555.2
7 4	7072	10	5	3	3	4	4	500.00	5000.0	-5000.0	0.15	-0.05	-25.0	-20.0	7500.0	cl717p	-55.0	0	0	5	5	7302.9	cl717wz	-55.0	0	0	5	5	7302.9
7 4	2529	10	5	3	3	4	4	500.00	5000.0	-5000.0	0.15	-0.05	-25.0	-25.0	3700.0	cl717p	-85.1	0	0	4	4	3488.5	cl717wz	-85.1	0	0	4	4	3488.5
7 4	2522	10	5	3	3	4	4	500.00	5000.0	-5000.0	0.15	-0.05	-25.0	-30.0	3700.0	cl717p	-61.9	0	0	4	4	3502.9	cl717wz	-61.9	0	0	4	4	3502.9
7 4	7198	5	10	3	3	4	4	500.00	5000.0	-5000.0	0.15	-0.15	-25.0	-20.0	7500.0	CL7170	74.8	1	0	5	5	7302.9	cl717wz	74.8	1	0	5	5	7302.9
7 4	2788	5	10	3	3	4	4	500.00	5000.0	-5000.0	0.15	-0.25	-25.0	-20.0	3700.0	CL7170	6.4	1	0	4	4	3418.0	cl717wz	6.4	1	0	4	4	3418.0
7 4	7324	5	10	3	3	4	4	500.00	5000.0	-5000.0	0.15	-0.25	-25.0	-20.0	7500.0	CL7170	6.4	1	0	5	5	7218.0	cl717wz	6.4	1	0	5	5	7218.0
7 4	2914	5	10	3	3	4	4	500.00	5000.0	-5000.0	0.15	-0.35	-25.0	-20.0	3700.0	CL7170	6.4	1	0	4	4	3418.0	cl717wz	6.4	1	0	4	4	3418.0
7 4	7450	5	10	3	3	4	4	500.00	5000.0	-5000.0	0.15	-0.35	-25.0	-20.0	7500.0	CL7170	6.4	1	0	5	5	7218.0	cl717wz	6.4	1	0	5	5	7218.0
7 4	4300	5	10	3	3	4	4	500.00	5000.0	-5000.0	0.25	-0.25	-25.0	-20.0	3700.0	CL7170	-43.7	0	0	4	4	3428.1	cl717wz	-43.7	0	0	4	4	3428.1
7 4	8836	5	10	3	3	4	4	500.00	5000.0	-5000.0	0.25	-0.25	-25.0	-20.0	7500.0	CL7170	-43.7	0	0	5	5	7228.1	cl717wz	-43.7	0	0	5	5	7228.1
7 4	267	5	10	3	3	4	4	750.00	1000.0	-5000.0	0.05	-0.25	-25.0	-20.0	3700.0	CL7170	76.3	1	0	4	4	3341.6	cl717wz	76.3	1	0	4	4	3341.6
7 4	4803	5	10	3	3	4	4	750.00	1000.0	-5000.0	0.05	-0.25	-25.0	-20.0	7500.0	CL7170	76.3	1	0	5	5	7141.6	cl717wz	76.3	1	0	5	5	7141.6
7 4	260	5	10	3	3	4	4	750.00	1000.0	-5000.0	0.05	-0.25	-25.0	-25.0	3700.0	CL7170	-98.9	0	0	4	4	3267.8	cl717wz	-98.9	0	0	4	4	3267.8
7 4	1779	5	10	3	3	4	4	750.00	1000.0	-5000.0	0.15	-0.25	-25.0	-20.0	3700.0	CL7170	8.0	1	0	4	4	3341.6	cl717wz	8.0	1	0	4	4	3341.6
7 4	1779	10	5	3	3	4	4	750.00	1000.0	-5000.0	0.15	-0.25	-25.0	-20.0	3700.0	cl717p	-97.0	0	0	4	4	3341.6	cl717wz	-97.0	0	0	4	4	3341.6
7 4	6315	5	10	3	3	4	4	750.00	1000.0	-5000.0	0.15	-0.25	-25.0	-20.0	7500.0	CL7170	8.0	1	0	5	5	7141.6	cl717wz	8.0	1	0	5	5	7141.6
7 4	6315	10	5	3	3	4	4	750.00	1000.0	-5000.0	0.15	-0.25	-25.0	-20.0	7500.0	cl717p	-96.9	0	0	5	5	7141.6	cl717wz	-96.9	0	0	5	5	7141.6
7 4	1772	5	10	3	3	4	4	750.00	1000.0	-5000.0	0.15	-0.25	-25.0	-25.0	3700.0	CL7170	-84.4	0	0	4	4	3267.8	cl717wz	-84.4	0	0	4	4	3267.8
7 4	1905	5	10	3	3	4	4	750.00	1000.0	-5000.0	0.15	-0.35	-25.0	-20.0	3700.0	CL7170	-7.6	1	0	4	4	3326.1	cl717wz	-7.6	1	0	4	4	3326.1
7 4	1905	10	5	3	3	4	4	750.00	1000.0	-5000.0	0.15	-0.35	-25.0	-20.0	3700.0	cl717p	-84.0	0	0	4	4	3326.1	cl717wz	-84.0	0	0	4	4	3326.1
7 4	6441	5	10	3	3	4	4	750.00	1000.0	-5000.0	0.15	-0.35	-25.0	-20.0	7500.0	CL7170	-7.6	1	0	5	5	7126.1	cl717wz	-7.6	1	0	5	5	7126.1
7 4	6441	10	5	3	3	4	4	750.00	1000.0	-5000.0	0.15	-0.35	-25.0	-20.0	7500.0	cl717p	-84.0	0	0	5	5	7126.1	cl717wz	-84.0	0	0	5	5	7126.1
7 4	3291	5	10	3	3	4	4	750.00	1000.0	-5000.0	0.25	-0.25	-25.0	-20.0	3700.0	CL7170	8.0	1	0	4	4	3341.6	cl717wz	8.0	1	0	4	4	3341.6
7 4	3291	10	5	3	3	4	4	750.00	1000.0	-5000.0	0.25	-0.25	-25.0	-20.0	3700.0	cl717p	-97.0	0	0	4	4	3341.6	cl717wz	-97.0	0	0	4	4	3341.6
7 4	7827	5	10	3	3	4	4	750.00	1000.0	-5000.0	0.25	-0.25	-25.0	-20.0	7500.0	CL7170	8.0	1	0	5	5	7141.6	cl717wz	8.0	1	0	5	5	7141.6
7 4	7827	10	5	3	3	4	4	750.00	1000.0	-5000.0	0.25	-0.25	-25.0	-20.0	7500.0	cl717p	-96.9	0	0	5	5	7141.6	cl717wz	-96.9	0	0	5	5	7141.6
7 4	3284	5	10	3	3	4	4	750.00	1000.0	-5000.0	0.25	-0.25	-25.0	-25.0	3700.0	CL7170	-84.4	0	0	4	4	3267.8	cl717wz	-84.4	0	0	4	4	3267.8
7 4	3417	5	10	3	3	4	4	750.00	1000.0	-5000.0	0.25	-0.35	-25.0	-20.0	3700.0	CL7170	-7.6	1	0	4	4	3326.1	cl717wz	-7.6	1	0	4	4	3326.1
7 4	3417	10	5	3	3	4	4	750.00	1000.0	-5000.0	0.25	-0.35	-25.0	-20.0	3700.0	cl717p	-84.0	0	0	4	4	3326.1	cl717wz	-84.0	0	0	4	4	3326.1
7 4	7953	5	10	3	3	4	4	750.00	1000.0	-5000.0	0.25	-0.35	-25.0	-20.0	7500.0	CL7170	-7.6	1	0	5	5	7126.1	cl717wz	-7.6	1	0	5	5	7126.1
7 4	7953	10	5	3	3	4	4	750.00	1000.0	-5000.0	0.25	-0.35	-25.0	-20.0	7500.0	cl717p	-84.0	0	0	5	5	7126.1	cl717wz	-84.0	0	0	5	5	7126.1

CLS TBL	REIT	Modes #1	Modes #2	R,C	R,C	CPA Alt Separat	AC#1 Rate	AC#2 Rate	AC#1 Acc.	AC#2 Acc.	AC#1 Time	AC#2 Time	AC #1 CPA Alt	Cell 3,3 Data File	Cell 3,3 Achieved Separatn	Cell 3,3 N	Cell 3,3 C	Cell 3,3 I	Cell 3,3 RAS 1	Cell 3,3 RAS 2	Cell 3,3 Own Alt CPA Ach	Cell 4,4 Data File	Cell 4,4 Achieved Separatn	Cell 4,4 N	Cell 4,4 C	Cell 4,4 I	Cell 4,4 RAS 1	Cell 4,4 RAS 2	Cell 4,4 Own Alt CPA Ach
7 4	3704	10	5	3	3	4 4	750.00	3000.0	-1000.0	0.25	-0.15	-25.0	-25.0	3700.0	cl717p	89.2	1	0	4	4	3089.8	cl717wz	89.2	1	0	4	4	3089.8
7 4	3830	10	5	3	3	4 4	750.00	3000.0	-1000.0	0.25	-0.25	-25.0	-25.0	3700.0	cl717p	89.2	1	0	4	4	3089.8	cl717wz	89.2	1	0	4	4	3089.8
7 4	3956	10	5	3	3	4 4	750.00	3000.0	-1000.0	0.25	-0.35	-25.0	-25.0	3700.0	cl717p	89.2	1	0	4	4	3089.8	cl717wz	89.2	1	0	4	4	3089.8
7 4	771	5	10	3	3	4 4	750.00	3000.0	-5000.0	0.05	-0.25	-25.0	-20.0	3700.0	CL7170	29.8	1	0	4	4	3277.4	cl717wz	29.8	1	0	4	4	3277.4
7 4	5307	5	10	3	3	4 4	750.00	3000.0	-5000.0	0.05	-0.25	-25.0	-20.0	7500.0	CL7170	29.8	1	0	5	5	7077.4	cl717wz	29.8	1	0	5	5	7077.4
7 4	897	5	10	3	3	4 4	750.00	3000.0	-5000.0	0.05	-0.35	-25.0	-20.0	3700.0	CL7170	-17.6	0	0	4	4	3230.0	cl717wz	-17.6	0	0	4	4	3230.0
7 4	5433	5	10	3	3	4 4	750.00	3000.0	-5000.0	0.05	-0.35	-25.0	-20.0	7500.0	CL7170	-17.6	0	0	5	5	7030.0	cl717wz	-17.6	0	0	5	5	7030.0
7 4	2157	5	10	3	3	4 4	750.00	3000.0	-5000.0	0.15	-0.15	-25.0	-20.0	3700.0	CL7170	20.0	0	0	4	4	3442.6	cl717wz	20.0	0	0	4	4	3442.6
7 4	6693	5	10	3	3	4 4	750.00	3000.0	-5000.0	0.15	-0.15	-25.0	-20.0	7500.0	CL7170	20.0	0	0	5	5	7242.6	cl717wz	20.0	0	0	5	5	7242.6
7 4	2283	5	10	3	3	4 4	750.00	3000.0	-5000.0	0.15	-0.25	-25.0	-20.0	3700.0	CL7170	-17.3	1	0	4	4	3316.3	cl717wz	-17.3	1	0	4	4	3316.3
7 4	6819	5	10	3	3	4 4	750.00	3000.0	-5000.0	0.15	-0.25	-25.0	-20.0	7500.0	CL7170	-17.3	1	0	5	5	7116.3	cl717wz	-17.3	1	0	5	5	7116.3
7 4	2409	5	10	3	3	4 4	750.00	3000.0	-5000.0	0.15	-0.35	-25.0	-20.0	3700.0	CL7170	-85.5	0	0	4	4	3248.1	cl717wz	-85.5	0	0	4	4	3248.1
7 4	6945	5	10	3	3	4 4	750.00	3000.0	-5000.0	0.15	-0.35	-25.0	-20.0	7500.0	CL7170	-85.5	0	0	5	5	7048.1	cl717wz	-85.5	0	0	5	5	7048.1
7 4	3669	5	10	3	3	4 4	750.00	3000.0	-5000.0	0.25	-0.15	-25.0	-20.0	3700.0	CL7170	-4.1	0	0	4	4	3442.6	cl717wz	-4.1	0	0	4	4	3442.6
7 4	3795	5	10	3	3	4 4	750.00	3000.0	-5000.0	0.25	-0.25	-25.0	-20.0	3700.0	CL7170	-17.3	1	0	4	4	3316.3	cl717wz	-17.3	1	0	4	4	3316.3
7 4	3921	5	10	3	3	4 4	750.00	3000.0	-5000.0	0.25	-0.35	-25.0	-20.0	3700.0	CL7170	-85.5	0	0	4	4	3248.1	cl717wz	-85.5	0	0	4	4	3248.1
7 4	7113	10	5	3	3	4 4	750.00	5000.0	-1000.0	0.15	-0.05	-25.0	-20.0	7500.0	cl717p	-22.9	0	0	5	5	7123.1	cl717wz	-22.9	0	0	5	5	7123.1
7 4	2570	5	10	3	3	4 4	750.00	5000.0	-1000.0	0.15	-0.05	-25.0	-25.0	3700.0	CL7170	-30.0	0	0	4	4	3265.1	cl717wz	-30.0	0	0	4	4	3265.1
7 4	7106	5	10	3	3	4 4	750.00	5000.0	-1000.0	0.15	-0.05	-25.0	-25.0	7500.0	CL7170	-30.0	0	0	5	5	7065.1	cl717wz	-30.0	0	0	5	5	7065.1
7 4	2703	10	5	3	3	4 4	750.00	5000.0	-1000.0	0.15	-0.15	-25.0	-20.0	3700.0	cl717p	32.0	1	0	4	4	3374.5	cl717wz	32.0	1	0	4	4	3374.5
7 4	7239	10	5	3	3	4 4	750.00	5000.0	-1000.0	0.15	-0.15	-25.0	-20.0	7500.0	cl717p	32.0	1	0	5	5	7174.5	cl717wz	32.0	1	0	5	5	7174.5
7 4	2829	5	10	3	3	4 4	750.00	5000.0	-1000.0	0.15	-0.25	-25.0	-20.0	3700.0	CL7170	-30.0	0	0	4	4	3265.1	cl717wz	-30.0	0	0	4	4	3265.1
7 4	7365	5	10	3	3	4 4	750.00	5000.0	-1000.0	0.15	-0.25	-25.0	-20.0	7500.0	CL7170	-30.0	0	0	5	5	7065.1	cl717wz	-30.0	0	0	5	5	7065.1
7 4	2955	5	10	3	3	4 4	750.00	5000.0	-1000.0	0.15	-0.35	-25.0	-20.0	3700.0	CL7170	-30.0	0	0	4	4	3265.	cl717wz	-30.0	0	0	4	4	3265.1
7 4	7491	5	10	3	3	4 4	750.00	5000.0	-1000.0	0.15	-0.35	-25.0	-20.0	7500.0	CL7170	-30.0	0	0	5	5	7065.	cl717wz	-30.0	0	0	5	5	7065.1
7 4	7092	10	5	3	3	4 4	750.00	5000.0	-3000.0	0.15	-0.05	-25.0	-20.0	7500.0	cl717p	68.8	1	0	5	5	7232.4	cl717wz	68.8	1	0	5	5	7232.4
7 4	7218	10	5	3	3	4 4	750.00	5000.0	-3000.0	0.15	-0.15	-25.0	-20.0	7500.0	cl717p	-48.3	0	0	5	5	7192.2	cl717wz	-48.3	0	0	5	5	7192.2
7 4	2934	5	10	3	3	4 4	750.00	5000.0	-3000.0	0.15	-0.35	-25.0	-20.0	3700.0	CL7170	-89.0	0	0	4	4	3265.1	cl717wz	88.3	1	0	4	4	3374.5
7 4	7470	5	10	3	3	4 4	750.00	5000.0	-3000.0	0.15	-0.35	-25.0	-20.0	7500.0	CL7170	-71.3	0	0	5	5	7082.8	cl717wz	-71.3	0	0	5	5	7082.8
7 4	4068	10	5	3	3	4 4	750.00	5000.0	-3000.0	0.25	-0.05	-25.0	-20.0	3700.0	cl717p	-100.1	0	0	3	4	3359.8	cl717wz	-100.1	0	0	3	4	3359.8
7 4	4194	5	10	3	3	4 4	750.00	5000.0	-3000.0	0.25	-0.15	-25.0	-20.0	3700.0	CL7170	-67.8	0	0	3	4	3334.0	cl717wz	-67.8	0	0	3	4	3334.0
7 4	4320	5	10	3	3	4 4	750.00	5000.0	-3000.0	0.25	-0.25	-25.0	-20.0	3700.0	CL7170	-85.5	0	0	3	4	3316.3	cl717wz	-85.5	0	0	3	4	3316.3
7 4	8856	5	10	3	3	4 4	750.00	5000.0	-3000.0	0.25	-0.25	-25.0	-20.0	7500.0	CL7170	-67.9	0	0	5	5	7134.0	cl717wz	-67.9	0	0	5	5	7134.0
7 4	4446	5	10	3	3	4 4	750.00	5000.0	-3000.0	0.25	-0.35	-25.0	-20.0	3700.0	CL7170	-85.5	0	0	3	4	3316.3	cl717wz	-85.5	0	0	3	4	3316.3
7 4	8982	5	10	3	3	4 4	750.00	5000.0	-3000.0	0.25	-0.35	-25.0	-20.0	7500.0	CL7170	-67.9	0	0	5	5	7134.0	cl717wz	-67.9	0	0	5	5	7134.0
7 4	1275	5	10	3	3	4 4	750.00	5000.0	-5000.0	0.05	-0.25	-25.0	-20.0	3700.0	CL7170	29.8	1	0	4	4	3277.4	cl717wz	29.8	1	0	4	4	3277.4
7 4	5811	5	10	3	3	4 4	750.00	5000.0	-5000.0	0.05	-0.25	-25.0	-20.0	7500.0	CL7170	29.8	1	0	5	5	7077.4	cl717wz	29.8	1	0	5	5	7077.4
7 4	1401	5	10	3	3	4 4	750.00	5000.0	-5000.0	0.05	-0.35	-25.0	-20.0	3700.0	CL7170	-17.6	0	0	4	4	3230.0	cl717wz	-17.6	0	0	4	4	3230.0
7 4	5937	5	10	3	3	4 4	750.00	5000.0	-5000.0	0.05	-0.35	-25.0	-20.0	7500.0	CL7170	-17.6	0	0	5	5	7030.0	cl717wz	-17.6	0	0	5	5	7030.0
7 4	7071	10	5	3	3	4 4	750.00	5000.0	-5000.0	0.15	-0.05	-25.0	-20.0	7500.0	cl717p	68.8	1	0	5	5	7232.4	cl717wz	68.8	1	0	5	5	7232.4
7 4	7197	5	10	3	3	4 4	750.00	5000.0	-5000.0	0.15	-0.15	-25.0	-20.0	7500.0	CL7170	-99.6	0	0	5	5	7123.1	cl717wz	-99.6	0	0	5	5	7123.1
7 4	7197	10	5	3	3	4 4	750.00	5000.0	-5000.0	0.15	-0.15	-25.0	-20.0	7500.0	cl717p	80.3	1	0	5	5	7302.9	cl717wz	80.3	1	0	5	5	7302.9
7 4	2654	10	5	3	3	4 4	750.00	5000.0	-5000.0	0.15	-0.15	-25.0	-25.0	3700.0	cl717p	-13.5	1	0	4	4	3392.2	cl717wz	-13.5	1	0	4	4	3392.2
7 4	2787	5	10	3	3	4 4	750.00	5000.0	-5000.0	0.15	-0.25	-25.0	-20.0	3700.0	CL7170	17.6	1	0	4	4	3282.8	cl717wz	17.6	1	0	4	4	3282.8
7 4	7323	5	10	3	3	4 4	750.00	5000.0	-5000.0	0.15	-0.25	-25.0	-20.0	7500.0	CL7170	-50.8	1	0	5	5	7082.8	cl717wz	-50.8	1	0	5	5	7082.8
7 4	7323	10	5	3	3	4 4	750.00	5000.0	-5000.0	0.15	-0.25	-25.0	-20.0	7500.0	cl717p	58.6	1	0	5	5	7192.2	cl717wz	58.6	1	0	5	5	7192.2
7 4	2913	5	10	3	3	4 4	750.00	5000.0	-5000.0	0.15	-0.35	-25.0	-20.0	3700.0	CL7170	-21.1	1	0	4	4	3265.1	cl717wz	-21.1	1	0	4	4	3265.1
7 4	7449	5	10	3	3	4 4	750.00	5000.0	-5000.0	0.15	-0.35	-25.0	-20.0	7500.0	CL7170	-89.4	0	0	5	5	7065.1	cl717wz	-89.4	0	0	5	5	7065.1
7 4	7449	10	5	3	3	4 4	750.00	5000.0	-5000.0	0.15	-0.35	-25.0	-20.0	7500.0	cl717p	20.0	1	0	5	5	7174.5	cl717wz	20.0	1	0	5	5	7174.5
7 4	4047	10	5	3	3	4 4	750.00	5000.0	-5000.0	0.25	-0.05	-25.0	-20.0	3700.0	cl717p	-100.1	0	0	3	4	3359.8	cl717wz	-100.1	0	0	3	4	3359.8
7 4	4173	5	10	3	3	4 4	750.00	5000.0	-5000.0	0.25	-0.15	-25.0	-20.0	3700.0	CL7170	20.0	1	0	4	4	3442.6	cl717wz	20.0	1	0	4	4	3442.6
7 4	4299	5	10	3	3	4 4	750.00	5000.0	-5000.0	0.25	-0.25	-25.0	-20.0	3700.0	CL7170	18.1	1	0	3	4	3334.0	cl717wz	18.1	1	0	3	4	3334.0
7 4	4299	10	5	3	3	4 4	750.00	5000.0	-5000.0	0.25	-0.25	-25.0	-20.0	3700.0	cl717p	-86.8	0	0	3	4	3334.0	cl717wz	-86.8	0	0	3	4	3334.0
7 4	8835	5	10	3	3	4 4	750.00	5000.0	-5000.0	0.25	-0.25	-25.0	-20.0	7500.0	CL7170	0.4	1	0	5	5	7134.0	cl717wz	0.4	1	0	5	5	7134.0
7 4	4425	5	10	3	3	4 4	750.00	5000.0	-5000.0	0.25	-0.35	-25.0	-20.0	3700.0	CL7170	0.4	1	0	3	4	3316.3	cl717wz	0.4	1	0	3	4	3316.3
7 4	4425	10	5	3	3	4 4	750.00	5000.0	-5000.0	0.25	-0.35	-25.0	-20.0	3700.0	cl717p	-76.0	0	0	3	4	3316.3	cl717wz	-76.0	0	0	3	4	3316.3
7 4	8961	5	10	3	3	4 4	750.00	5000.0	-5000.0	0.25	-0.35	-25.0	-20.0	7500.0	CL7170	-17.3	1	0	5	5	7116.3	cl717wz	-17.3	1	0	5	5	7116.3
7 4	----------			3	3	4 4	Subtotal = 189 NMACs																						
7 4	2808	10	5			4 4	750.00	5000.0	-3000.0	0.15	-0.25	-25.0	-20.0	3700.0								cl717wz	90.9	1	0	4	4	3445.0
7 4	7344	10	5			4 4	750.00	5000.0	-3000.0	0.15	-0.25	-25.0	-20.0	7500.0								cl717wz	-33.1	1	0	5	5	7192.2
7 4	2934	10	5			4 4	750.00	5000.0	-3000.0	0.15	-0.35	-25.0	-20.0	3700.0								cl717wz	-50.8	0	0	4	4	3374.5
7 4	4187	5	10			4 4	750.00	5000.0	-3000.0	0.25	-0.15	-25.0	-25.0	3700.0								cl717wz	-85.5	0	0	3	4	3316.3
7 4	8723	5	10			4 4	750.00	5000.0	-3000.0	0.25	-0.15	-25.0	-25.0	7500.0								cl717wz	-85.5	0	0	5	5	7116.3

CLS TBL	REIT	Modes #1	Modes #2	R,C	R,C	CPA Alt Separat	AC#1 Rate	AC#2 Rate	AC#1 Acc.	AC#2 Acc.	AC#1 Time	AC#2 Time	AC #1 CPA Alt	Cell 3,3 Data File	Cell 3,3 Achieved Separatn	Cell 3,3 C	Cell 3,3 I	Cell 3,3 RAS 1	Cell 3,3 RAS 2	Cell 3,3 Own Alt CPA Ach	Cell 4,4 Data File	Cell 4,4 Achieved Separatn	Cell 4,4 C	Cell 4,4 I	Cell 4,4 RAS 1	Cell 4,4 RAS 2	Cell 4,4 Own Alt CPA Ach
7 4	2014	5	10	4	4	-250.00	1000.0	5000.0	0.15	0.35	-25.0	-20.0	3700.0								cl717wz	94.3	0	0	4	4	3847.2
7 4	3526	5	10	4	4	-250.00	1000.0	5000.0	0.25	0.35	-25.0	-20.0	3700.0								cl717wz	94.3	0	0	4	4	3847.2
7 4	----------			4	4	Subtotal =	7	NMACs																			
8 3	1257	5	10	3	3	0.00	-1000.0	5000.0	0.05	0.15	-25.0	-20.0	3700.0	CL8180R	82.5	0	0	4	4	3742.6	cl818wz	82.5	0	0	4	4	3742.6
8 3	2769	5	10	3	3	0.00	-1000.0	5000.0	0.15	0.15	-25.0	-20.0	3700.0	CL8180R	82.5	0	0	4	4	3742.6	cl818wz	82.5	0	0	4	4	3742.6
8 3	7305	5	10	3	3	0.00	-1000.0	5000.0	0.15	0.15	-25.0	-20.0	7500.0	CL8180R	82.5	0	0	5	5	7542.6	cl818wz	82.5	0	0	5	5	7542.6
8 3	4281	5	10	3	3	0.00	-1000.0	5000.0	0.25	0.15	-25.0	-20.0	3700.0	CL8180R	82.5	0	0	4	4	3742.6	cl818wz	82.5	0	0	4	4	3742.6
8 3	8817	5	10	3	3	0.00	-1000.0	5000.0	0.25	0.15	-25.0	-20.0	7500.0	CL8180R	82.5	0	0	5	5	7542.6	cl818wz	82.5	0	0	5	5	7542.6
8 3	1152	5	10	3	3	0.00	-1000.0	-5000.0	0.05	-0.15	-25.0	-20.0	3700.0	CL8180R	-82.5	0	0	4	4	3657.4	cl818wz	-82.5	0	0	4	4	3657.4
8 3	5688	5	10	3	3	0.00	-1000.0	-5000.0	0.05	-0.15	-25.0	-20.0	7500.0	CL8180R	-82.5	0	0	5	5	7457.4	cl818wz	-82.5	0	0	5	5	7457.4
8 3	2664	5	10	3	3	0.00	-1000.0	-5000.0	0.15	-0.15	-25.0	-20.0	3700.0	CL8180R	-82.5	0	0	4	4	3657.4	cl818wz	-82.5	0	0	4	4	3657.4
8 3	7200	5	10	3	3	0.00	-1000.0	-5000.0	0.15	-0.15	-25.0	-20.0	7500.0	CL8180R	-82.5	0	0	5	5	7457.4	cl818wz	-82.5	0	0	5	5	7457.4
8 3	4176	5	10	3	3	0.00	-1000.0	-5000.0	0.25	-0.15	-25.0	-20.0	3700.0	CL8180R	-82.5	0	0	4	4	3657.4	cl818wz	-82.5	0	0	4	4	3657.4
8 3	8712	5	10	3	3	0.00	-1000.0	-5000.0	0.25	-0.15	-25.0	-20.0	7500.0	CL8180R	-82.5	0	0	5	5	7457.4	cl818wz	-82.5	0	0	5	5	7457.4
8 3	2265	5	10	3	3	0.00	-3000.0	5000.0	0.15	0.15	-25.0	-20.0	3700.0	CL8180R	82.5	0	0	4	4	3742.6	cl818wz	82.5	0	0	4	4	3742.6
8 3	3777	5	10	3	3	0.00	-3000.0	5000.0	0.25	0.15	-25.0	-20.0	3700.0	CL8180R	82.5	0	0	4	4	3742.6	cl818wz	82.5	0	0	4	4	3742.6
8 3	641	5	10	3	3	0.00	-3000.0	-5000.0	0.05	-0.15	-25.0	-25.0	3700.0	CL8180R	77.2	0	1	4	4	3777.2	cl818wz	77.2	0	1	4	4	3777.2
8 3	641	10	5	3	3	0.00	-3000.0	-5000.0	0.05	-0.15	-25.0	-25.0	3700.0	CL8180R	19.3	0	1	4	4	3719.3	cl818wz	19.3	0	1	4	4	3719.3
8 3	5177	5	10	3	3	0.00	-3000.0	-5000.0	0.05	-0.15	-25.0	-25.0	7500.0	CL8180R	77.2	0	1	5	5	7577.2	cl818wz	77.2	0	1	5	5	7577.2
8 3	5177	10	5	3	3	0.00	-3000.0	-5000.0	0.05	-0.15	-25.0	-25.0	7500.0	CL8180R	43.4	0	1	5	5	7543.4	cl818wz	43.4	0	1	5	5	7543.4
8 3	774	5	10	3	3	0.00	-3000.0	-5000.0	0.05	-0.25	-25.0	-20.0	3700.0	CL8180R	-92.1	0	0	4	4	3644.1	cl818wz	-92.1	0	0	4	4	3644.1
8 3	2160	5	10	3	3	0.00	-3000.0	-5000.0	0.15	-0.15	-25.0	-20.0	3700.0	CL8180R	-82.5	0	0	4	4	3657.4	cl818wz	-82.5	0	0	4	4	3657.4
8 3	6696	5	10	3	3	0.00	-3000.0	-5000.0	0.15	-0.15	-25.0	-20.0	7500.0	CL8180R	-82.5	0	0	5	5	7457.4	cl818wz	-82.5	0	0	5	5	7457.4
8 3	3672	5	10	3	3	0.00	-3000.0	-5000.0	0.25	-0.15	-25.0	-20.0	3700.0	CL8180R	-82.5	0	0	4	4	3657.4	cl818wz	-82.5	0	0	4	4	3657.4
8 3	8208	5	10	3	3	0.00	-3000.0	-5000.0	0.25	-0.15	-25.0	-20.0	7500.0	CL8180R	-82.5	0	0	5	5	7457.4	cl818wz	-82.5	0	0	5	5	7457.4
8 3	1656	5	10	3	3	0.00	-5000.0	-5000.0	0.15	-0.15	-25.0	-20.0	3700.0	CL8180R	-9.7	1	0	4	4	3694.4	cl818wz	-9.7	1	0	4	4	3694.4
8 3	1656	10	5	3	3	0.00	-5000.0	-5000.0	0.15	-0.15	-25.0	-20.0	3700.0	CL8180R	-45.5	1	0	4	4	3694.4	cl818wz	-45.5	1	0	4	4	3694.4
8 3	6192	5	10	3	3	0.00	-5000.0	-5000.0	0.15	-0.15	-25.0	-20.0	7500.0	CL8180R	-9.7	1	0	5	5	7494.4	cl818wz	-9.7	1	0	5	5	7494.4
8 3	6192	10	5	3	3	0.00	-5000.0	-5000.0	0.15	-0.15	-25.0	-20.0	7500.0	CL8180R	-45.5	1	0	5	5	7494.4	cl818wz	-45.5	1	0	5	5	7494.4
8 3	1782	10	5	3	3	0.00	-5000.0	-5000.0	0.15	-0.25	-25.0	-20.0	3700.0	CL8180R	-58.7	1	0	4	4	3677.5	cl818wz	-58.7	1	0	4	4	3677.5
8 3	6318	10	5	3	3	0.00	-5000.0	-5000.0	0.15	-0.25	-25.0	-20.0	7500.0	CL8180R	-58.7	1	0	5	5	7477.5	cl818wz	-58.7	1	0	5	5	7477.5
8 3	3168	5	10	3	3	0.00	-5000.0	-5000.0	0.25	-0.15	-25.0	-20.0	3700.0	CL8180R	-82.5	0	0	4	4	3657.4	cl818wz	-82.5	0	0	4	4	3657.4
8 3	7704	5	10	3	3	0.00	-5000.0	-5000.0	0.25	-0.15	-25.0	-20.0	7500.0	CL8180R	-82.5	0	0	5	5	7457.4	cl818wz	-82.5	0	0	5	5	7457.4
8 3	----------			3	3	4	4	Subtotal =	30	NMACs																	
8 4	2103	10	5	3	3	250.00	-3000.0	3000.0	0.15	0.05	-25.0	-30.0	3700.0	CL8180R	-88.4	0	1	4	4	3527.1							
8 4	1732	5	10	3	3	250.00	-5000.0	3000.0	0.15	0.15	-25.0	-25.0	3700.0	CL8180R	38.7	0	0	5	3	3488.7							
8 4	1598	10	5	3	3	500.00	-5000.0	3000.0	0.15	0.05	-25.0	-30.0	3700.0	CL8180R	-39.7	0	1	4	3	3337.6							
8 4	1724	5	10	3	3	500.00	-5000.0	3000.0	0.15	0.15	-25.0	-30.0	3700.0	CL8180R	-27.6	0	1	4	3	3172.4							
8 4	1850	5	10	3	3	500.00	-5000.0	3000.0	0.15	0.25	-25.0	-30.0	3700.0	CL8180R	-42.3	0	1	4	3	3172.4							
8 4	1983	5	10	3	3	500.00	-5000.0	3000.0	0.15	0.35	-25.0	-25.0	3700.0	CL8180R	40.5	0	1	4	3	3240.5							
8 4	1983	10	5	3	3	500.00	-5000.0	3000.0	0.15	0.35	-25.0	-25.0	3700.0	CL8180R	40.5	0	1	4	3	3240.5							
8 4	3243	5	10	3	3	500.00	-5000.0	3000.0	0.25	0.15	-25.0	-25.0	3700.0	CL8180R	77.1	1	1	4	3	3277.1							
8 4	3243	10	5	3	3	500.00	-5000.0	3000.0	0.25	0.15	-25.0	-25.0	3700.0	CL8180R	77.1	1	1	4	3	3277.1							
8 4	3236	5	10	3	3	500.00	-5000.0	3000.0	0.25	0.15	-25.0	-30.0	3700.0	CL8180R	-57.8	0	1	4	3	3142.2							
8 4	3236	10	5	3	3	500.00	-5000.0	3000.0	0.25	0.15	-25.0	-30.0	3700.0	CL8180R	77.1	1	1	4	3	3277.1							
8 4	3369	5	10	3	3	500.00	-5000.0	3000.0	0.25	0.25	-25.0	-25.0	3700.0	CL8180R	-6.2	0	1	4	3	3193.7							
8 4	3369	10	5	3	3	500.00	-5000.0	3000.0	0.25	0.25	-25.0	-25.0	3700.0	CL8180R	-6.2	0	1	4	3	3193.7							
8 4	3495	5	10	3	3	500.00	-5000.0	3000.0	0.25	0.35	-25.0	-25.0	3700.0	CL8180R	35.4	0	1	4	3	3235.4							
8 4	3495	10	5	3	3	500.00	-5000.0	3000.0	0.25	0.35	-25.0	-25.0	3700.0	CL8180R	35.4	0	1	4	3	3235.4							
8 4	3131	10	5	3	3	500.00	-5000.0	5000.0	0.25	0.05	-25.0	-30.0	3700.0	CL8180R	-39.9	0	1	4	4	3649.3							
8 4	3383	5	10	3	3	500.00	-5000.0	5000.0	0.25	0.25	-25.0	-30.0	3700.0	CL8180R	35.4	0	1	4	3	3235.4							
8 4	3383	10	5	3	3	500.00	-5000.0	5000.0	0.25	0.25	-25.0	-30.0	3700.0	CL8180R	35.4	0	1	4	3	3235.4							
8 4	1882	10	5	3	3	-500.00	-5000.0	5000.0	0.15	0.25	-25.0	-25.0	3700.0	CL8180R	-77.5	1	0	4	3	4071.8							
8 4	1757	5	10	3	3	-750.00	-5000.0	5000.0	0.15	0.15	-25.0	-25.0	3700.0	CL8180R	-73.4	1	0	4	4	4121.6							
8 4	6293	5	10	3	3	-750.00	-5000.0	5000.0	0.15	0.15	-25.0	-25.0	7500.0	CL8180R	-18.4	0	0	5	5	8008.8							
8 4	6293	10	5	3	3	-750.00	-5000.0	5000.0	0.15	0.15	-25.0	-25.0	7500.0	CL8180R	-73.4	1	0	5	5	7921.6							
8 4	6286	10	5	3	3	-750.00	-5000.0	5000.0	0.15	0.15	-25.0	-30.0	7500.0	CL8180R	-18.4	0	0	5	5	8008.8							
8 4	7924	5	10	3	3	-750.00	-5000.0	5000.0	0.25	0.25	-25.0	-30.0	7500.0	CL8180R	40.2	0	0	5	5	8067.4							
8 4	7924	10	5	3	3	-750.00	-5000.0	5000.0	0.25	0.25	-25.0	-30.0	7500.0	CL8180R	40.2	0	0	5	5	8067.4							
8 4	8050	5	10	3	3	-750.00	-5000.0	5000.0	0.25	0.35	-25.0	-30.0	7500.0	CL8180R	58.7	0	0	5	5	8085.9							
8 4	8050	10	5	3	3	-750.00	-5000.0	5000.0	0.25	0.35	-25.0	-30.0	7500.0	CL8180R	58.7	0	0	5	5	8085.9							
8 4	----------			3	3	Subtotal =	27	NMACs																			

CLS TBL	REIT	Modes #1	Modes #2	R,C	R,C	CPA Alt Separat	AC#1 Rate	AC#2 Rate	AC#1 Acc.	AC#2 Acc.	AC#1 Time	AC#2 Time	AC #1 CPA Alt	Cell 3,3 Data File	Cell 3,3 Achieved Separatn	Cell 3,3 C N	Cell 3,3 I C	Cell 3,3 RAS 1	Cell 3,3 RAS 2	Cell 3,3 Own Alt CPA	Cell 3,3 Alt Ach	Cell 4,4 Data File	Cell 4,4 Achieved Separatn	Cell 4,4 C N	Cell 4,4 I C	Cell 4,4 RAS 1	Cell 4,4 RAS 2	Cell 4,4 Own Alt CPA	Cell 4,4 Alt Ach
8 4	1151	10	5	3	3	4	4	250.00	-1000.0	-5000.0	0.05	-0.15	-25.0	-20.0	3700.0	CL818OR	-84.1	0	0	4	4	3579.5		cl818wz	-84.1	0	0	4	4	3579.5	
8 4	1277	5	10	3	3	4	4	250.00	-1000.0	-5000.0	0.05	-0.25	-25.0	-20.0	3700.0	CL818OR	-67.7	0	0	4	4	3527.1		cl818wz	-67.7	0	0	4	4	3527.1	
8 4	1403	5	10	3	3	4	4	250.00	-1000.0	-5000.0	0.05	-0.35	-25.0	-20.0	3700.0	CL818OR	-67.7	0	0	4	4	3527.1		cl818wz	-67.7	0	0	4	4	3527.1	
8 4	2789	5	10	3	3	4	4	250.00	-1000.0	-5000.0	0.15	-0.25	-25.0	-20.0	3700.0	CL818OR	-67.7	0	0	4	4	3527.1		cl818wz	-67.7	0	0	4	4	3527.1	
8 4	2915	5	10	3	3	4	4	250.00	-1000.0	-5000.0	0.15	-0.35	-25.0	-20.0	3700.0	CL818OR	-67.7	0	0	4	4	3527.1		cl818wz	-67.7	0	0	4	4	3527.1	
8 4	4301	5	10	3	3	4	4	250.00	-1000.0	-5000.0	0.25	-0.25	-25.0	-20.0	3700.0	CL818OR	-67.7	0	0	4	4	3527.1		cl818wz	-67.7	0	0	4	4	3527.1	
8 4	4427	5	10	3	3	4	4	250.00	-1000.0	-5000.0	0.25	-0.35	-25.0	-20.0	3700.0	CL818OR	-67.7	0	0	4	4	3527.1		cl818wz	-67.7	0	0	4	4	3527.1	
8 4	3615	5	10	3	3	4	4	250.00	-3000.0	3000.0	0.25	0.05	-25.0	-30.0	3700.0	CL818OR	82.3	1	1	4	4	3649.3		cl818wz	82.3	1	1	4	4	3649.3	
8 4	3615	10	5	3	3	4	4	250.00	-3000.0	3000.0	0.25	0.05	-25.0	-30.0	3700.0	CL818OR	-90.1	0	1	4	4	3527.1		cl818wz	-90.1	0	1	4	4	3527.1	
8 4	2124	5	10	3	3	4	4	250.00	-3000.0	5000.0	0.15	0.05	-25.0	-30.0	3700.0	CL818OR	-87.5	0	1	4	4	3677.5		cl818wz	-87.5	0	1	4	4	3677.5	
8 4	773	10	5	3	3	4	4	250.00	-3000.0	-5000.0	0.05	-0.25	-25.0	-20.0	3700.0	CL818OR	-87.5	0	0	4	4	3559.6		cl818wz	-87.5	0	0	4	4	3559.6	
8 4	5309	10	5	3	3	4	4	250.00	-3000.0	-5000.0	0.05	-0.25	-25.0	-20.0	7500.0	CL818OR	-87.4	0	0	5	5	7359.6		cl818wz	-87.4	0	0	5	5	7359.6	
8 4	899	10	5	3	3	4	4	250.00	-3000.0	-5000.0	0.05	-0.35	-25.0	-20.0	3700.0	CL818OR	-87.5	0	0	4	4	3559.6		cl818wz	-87.5	0	0	4	4	3559.6	
8 4	5435	10	5	3	3	4	4	250.00	-3000.0	-5000.0	0.05	-0.35	-25.0	-20.0	7500.0	CL818OR	-87.4	0	0	5	5	7359.6		cl818wz	-87.4	0	0	5	5	7359.6	
8 4	2285	5	10	3	3	4	4	250.00	-3000.0	-5000.0	0.15	-0.25	-25.0	-20.0	3700.0	CL818OR	-67.7	0	0	4	4	3527.1		cl818wz	-67.7	0	0	4	4	3527.1	
8 4	2411	5	10	3	3	4	4	250.00	-3000.0	-5000.0	0.15	-0.35	-25.0	-20.0	3700.0	CL818OR	-67.7	0	0	4	4	3527.1		cl818wz	-67.7	0	0	4	4	3527.1	
8 4	3923	5	10	3	3	4	4	250.00	-3000.0	-5000.0	0.25	-0.35	-25.0	-20.0	3700.0	CL818OR	-67.7	0	0	4	4	3527.1		cl818wz	-67.7	0	0	4	4	3527.1	
8 4	1676	10	5	3	3	4	4	250.00	-5000.0	-3000.0	0.15	-0.15	-25.0	-20.0	3700.0	CL818OR	-40.5	0	0	4	4	3568.7		cl818wz	-40.5	0	0	4	4	3568.7	
8 4	6212	10	5	3	3	4	4	250.00	-5000.0	-3000.0	0.15	-0.15	-25.0	-20.0	7500.0	CL818OR	-40.5	0	0	5	5	7368.8		cl818wz	-40.5	0	0	5	5	7368.8	
8 4	1655	10	5	3	3	4	4	250.00	-5000.0	-5000.0	0.15	-0.15	-25.0	-20.0	3700.0	CL818OR	-84.1	0	0	4	4	3579.5		cl818wz	-84.1	0	0	4	4	3579.5	
8 4	6191	10	5	3	3	4	4	250.00	-5000.0	-5000.0	0.15	-0.15	-25.0	-20.0	7500.0	CL818OR	-98.6	0	0	5	5	7379.5		cl818wz	-98.6	0	0	5	5	7379.5	
8 4	1641	10	5	3	3	4	4	250.00	-5000.0	-5000.0	0.15	-0.15	-25.0	-30.0	3700.0	CL818OR	-26.0	0	0	4	4	3568.7		cl818wz	-26.0	0	0	4	4	3568.7	
8 4	6177	10	5	3	3	4	4	250.00	-5000.0	-5000.0	0.15	-0.15	-25.0	-30.0	7500.0	CL818OR	-40.5	0	0	5	5	7368.8		cl818wz	-40.5	0	0	5	5	7368.8	
8 4	1774	10	5	3	3	4	4	250.00	-5000.0	-5000.0	0.15	-0.25	-25.0	-25.0	3700.0	CL818OR	-26.0	0	0	4	4	3568.7		cl818wz	-26.0	0	0	4	4	3568.7	
8 4	1907	10	5	3	3	4	4	250.00	-5000.0	-5000.0	0.15	-0.35	-25.0	-20.0	3700.0	CL818OR	-26.0	0	0	4	4	3568.7		cl818wz	-26.0	0	0	4	4	3568.7	
8 4	6443	10	5	3	3	4	4	250.00	-5000.0	-5000.0	0.15	-0.35	-25.0	-20.0	7500.0	CL818OR	-40.5	0	0	5	5	7368.8		cl818wz	-40.5	0	0	5	5	7368.8	
8 4	3293	5	10	3	3	4	4	250.00	-5000.0	-5000.0	0.25	-0.25	-25.0	-20.0	3700.0	CL818OR	-67.7	0	0	4	4	3527.1		cl818wz	-67.7	0	0	4	4	3527.1	
8 4	1143	5	10	3	3	4	4	500.00	-1000.0	-5000.0	0.05	-0.15	-25.0	-25.0	3700.0	CL818OR	62.6	1	0	4	4	3485.4		cl818wz	62.6	1	0	4	4	3485.4	
8 4	5679	5	10	3	3	4	4	500.00	-1000.0	-5000.0	0.05	-0.15	-25.0	-25.0	7500.0	CL818OR	-53.3	0	0	5	5	7254.5		cl818wz	-53.3	0	0	5	5	7254.5	
8 4	1136	5	10	3	3	4	4	500.00	-1000.0	-5000.0	0.05	-0.15	-25.0	-30.0	3700.0	CL818OR	-39.4	0	0	4	4	3443.8		cl818wz	-39.4	0	0	4	4	3443.8	
8 4	1276	10	5	3	3	4	4	500.00	-1000.0	-5000.0	0.05	-0.25	-25.0	-20.0	3700.0	CL818OR	44.0	1	0	4	4	3527.1		cl818wz	44.0	1	0	4	4	3527.1	
8 4	5812	5	10	3	3	4	4	500.00	-1000.0	-5000.0	0.05	-0.25	-25.0	-20.0	7500.0	CL818OR	48.1	1	0	5	5	7285.4		cl818wz	48.1	1	0	5	5	7285.4	
8 4	5812	10	5	3	3	4	4	500.00	-1000.0	-5000.0	0.05	-0.25	-25.0	-20.0	7500.0	CL818OR	-80.5	0	0	5	5	7285.4		cl818wz	-80.5	0	0	5	5	7285.4	
8 4	1269	5	10	3	3	4	4	500.00	-1000.0	-5000.0	0.05	-0.25	-25.0	-25.0	3700.0	CL818OR	-39.4	0	0	4	4	3443.8		cl818wz	-39.4	0	0	4	4	3443.8	
8 4	1402	5	10	3	3	4	4	500.00	-1000.0	-5000.0	0.05	-0.35	-25.0	-20.0	3700.0	CL818OR	-39.4	0	0	4	4	3443.8		cl818wz	-39.4	0	0	4	4	3443.8	
8 4	5938	5	10	3	3	4	4	500.00	-1000.0	-5000.0	0.05	-0.35	-25.0	-20.0	7500.0	CL818OR	-53.8	0	0	5	5	7243.8		cl818wz	-53.8	0	0	5	5	7243.8	
8 4	2655	5	10	3	3	4	4	500.00	-1000.0	-5000.0	0.15	-0.15	-25.0	-25.0	3700.0	CL818OR	-38.8	0	0	4	4	3454.5		cl818wz	-38.8	0	0	4	4	3454.5	
8 4	7191	5	10	3	3	4	4	500.00	-1000.0	-5000.0	0.15	-0.15	-25.0	-25.0	7500.0	CL818OR	-53.3	0	0	5	5	7254.5		cl818wz	-53.3	0	0	5	5	7254.5	
8 4	2788	5	10	3	3	4	4	500.00	-1000.0	-5000.0	0.15	-0.25	-25.0	-20.0	3700.0	CL818OR	62.6	1	0	4	4	3485.4		cl818wz	62.6	1	0	4	4	3485.4	
8 4	2788	10	5	3	3	4	4	500.00	-1000.0	-5000.0	0.15	-0.25	-25.0	-20.0	3700.0	CL818OR	-66.1	0	0	4	4	3485.4		cl818wz	-66.1	0	0	4	4	3485.4	
8 4	7324	5	10	3	3	4	4	500.00	-1000.0	-5000.0	0.15	-0.25	-25.0	-20.0	7500.0	CL818OR	48.2	1	0	5	5	7285.4		cl818wz	48.2	1	0	5	5	7285.4	
8 4	7324	10	5	3	3	4	4	500.00	-1000.0	-5000.0	0.15	-0.25	-25.0	-20.0	7500.0	CL818OR	-80.5	0	0	5	5	7285.4		cl818wz	-80.5	0	0	5	5	7285.4	
8 4	2914	5	10	3	3	4	4	500.00	-1000.0	-5000.0	0.15	-0.35	-25.0	-20.0	3700.0	CL818OR	-39.4	0	0	4	4	3443.8		cl818wz	-39.4	0	0	4	4	3443.8	
8 4	7450	5	10	3	3	4	4	500.00	-1000.0	-5000.0	0.15	-0.35	-25.0	-20.0	7500.0	CL818OR	-53.8	0	0	5	5	7243.8		cl818wz	-53.8	0	0	5	5	7243.8	
8 4	4167	5	10	3	3	4	4	500.00	-1000.0	-5000.0	0.25	-0.15	-25.0	-25.0	3700.0	CL818OR	-38.8	0	0	4	4	3454.5		cl818wz	-38.8	0	0	4	4	3454.5	
8 4	8703	5	10	3	3	4	4	500.00	-1000.0	-5000.0	0.25	-0.15	-25.0	-25.0	7500.0	CL818OR	-53.3	0	0	5	5	7254.5		cl818wz	-53.3	0	0	5	5	7254.5	
8 4	4300	5	10	3	3	4	4	500.00	-1000.0	-5000.0	0.25	-0.25	-25.0	-20.0	3700.0	CL818OR	62.6	1	0	4	4	3485.4		cl818wz	62.6	1	0	4	4	3485.4	
8 4	4300	10	5	3	3	4	4	500.00	-1000.0	-5000.0	0.25	-0.25	-25.0	-20.0	3700.0	CL818OR	-66.1	0	0	4	4	3485.4		cl818wz	-66.1	0	0	4	4	3485.4	
8 4	8836	5	10	3	3	4	4	500.00	-1000.0	-5000.0	0.25	-0.25	-25.0	-20.0	7500.0	CL818OR	48.2	1	0	5	5	7285.4		cl818wz	48.2	1	0	5	5	7285.4	
8 4	8836	10	5	3	3	4	4	500.00	-1000.0	-5000.0	0.25	-0.25	-25.0	-20.0	7500.0	CL818OR	-80.5	0	0	5	5	7285.4		cl818wz	-80.5	0	0	5	5	7285.4	
8 4	4426	5	10	3	3	4	4	500.00	-1000.0	-5000.0	0.25	-0.35	-25.0	-20.0	3700.0	CL818OR	-39.4	0	0	4	4	3443.8		cl818wz	-39.4	0	0	4	4	3443.8	
8 4	8962	5	10	3	3	4	4	500.00	-1000.0	-5000.0	0.25	-0.35	-25.0	-20.0	7500.0	CL818OR	-53.8	0	0	5	5	7243.8		cl818wz	-53.8	0	0	5	5	7243.8	
8 4	772	5	10	3	3	4	4	500.00	-3000.0	-5000.0	0.05	-0.25	-25.0	-20.0	3700.0	CL818OR	40.6	1	0	4	4	3512.5		cl818wz	40.6	1	0	4	4	3512.5	
8 4	772	10	5	3	3	4	4	500.00	-3000.0	-5000.0	0.05	-0.25	-25.0	-20.0	3700.0	CL818OR	-27.8	1	0	4	4	3512.5		cl818wz	-27.8	1	0	4	4	3512.5	
8 4	5308	5	10	3	3	4	4	500.00	-3000.0	-5000.0	0.05	-0.25	-25.0	-20.0	7500.0	CL818OR	40.6	1	0	5	5	7312.5		cl818wz	40.6	1	0	5	5	7312.5	
8 4	5308	10	5	3	3	4	4	500.00	-3000.0	-5000.0	0.05	-0.25	-25.0	-20.0	7500.0	CL818OR	-27.8	1	0	5	5	7312.5		cl818wz	-27.8	1	0	5	5	7312.5	
8 4	2151	5	10	3	3	4	4	500.00	-3000.0	-5000.0	0.15	-0.15	-25.0	-25.0	3700.0	CL818OR	62.6	1	0	4	4	3485.4		cl818wz	62.6	1	0	4	4	3485.4	
8 4	6687	5	10	3	3	4	4	500.00	-3000.0	-5000.0	0.15	-0.15	-25.0	-25.0	7500.0	CL818OR	-53.3	0	0	5	5	7254.5		cl818wz	-53.3	0	0	5	5	7254.5	
8 4	2284	10	5	3	3	4	4	500.00	-3000.0	-5000.0	0.15	-0.25	-25.0	-20.0	3700.0	CL818OR	44.0	1	0	4	4	3527.1		cl818wz	44.0	1	0	4	4	3527.1	
8 4	6820	5	10	3	3	4	4	500.00	-3000.0	-5000.0	0.15	-0.25	-25.0	-20.0	7500.0	CL818OR	48.2	1	0	5	5	7285.4		cl818wz	48.2	1	0	5	5	7285.4	
8 4	6820	10	5	3	3	4	4	500.00	-3000.0	-5000.0	0.15	-0.25	-25.0	-20.0	7500.0	CL818OR	-80.5	0	0	5	5	7285.4		cl818wz	-80.5	0	0	5	5	7285.4	
8 4	2410	5	10	3	3	4	4	500.00	-3000.0	-5000.0	0.15	-0.35	-25.0	-20.0	3700.0	CL818OR	-39.4	0	0	4	4	3443.8		cl818wz	-39.4	0	0	4	4	3443.8	
8 4	6946	5	10	3	3	4	4	500.00	-3000.0	-5000.0	0.15	-0.35	-25.0	-20.0	7500.0	CL818OR	-53.8	0	0	5	5	7243.8		cl818wz	-53.8	0	0	5	5	7243.8	
8 4	3663	5	10	3	3	4	4	500.00	-3000.0	-5000.0	0.25	-0.15	-25.0	-25.0	3700.0	CL818OR	-38.8	0	0	4	4	3454.5		cl818wz	-38.8	0	0	4	4	3454.5	

CLS TBL	REIT	Modes #1	Modes #2	R,C	R,C	CPA Alt Separat	AC#1 Rate	AC#2 Rate	AC#1 Acc.	AC#2 Acc.	AC#1 Time	AC#2 Time	AC #1 CPA Alt	Cell 3,3 Data File	Cell 3,3 Achieved Separatn	Cell 3,3 C N	Cell 3,3 I C	Cell 3,3 RAS 1	Cell 3,3 RAS 2	Cell 3,3 Own Alt CPA Ach	Cell 4,4 Data File	Cell 4,4 Achieved Separatn	Cell 4,4 C N	Cell 4,4 I C	Cell 4,4 RAS 1	Cell 4,4 RAS 2	Cell 4,4 Own Alt CPA Ach
8 4	8199	5	10	3	3	4 4	500.00	-3000.0	-5000.0	0.25	-0.15	-25.0	-25.0	7500.0	CL8180R	-53.3	0	0	5	5	7254.5	cl818wz	-53.3	0	0	5	5	7254.5
8 4	3796	5	10	3	3	4 4	500.00	-3000.0	-5000.0	0.25	-0.25	-25.0	-20.0	3700.0	CL8180R	62.6	1	0	4	4	3485.4	cl818wz	62.6	1	0	4	4	3485.4
8 4	3796	10	5	3	3	4 4	500.00	-3000.0	-5000.0	0.25	-0.25	-25.0	-20.0	3700.0	CL8180R	-66.1	0	0	4	4	3485.4	cl818wz	-66.1	0	0	4	4	3485.4
8 4	8332	5	10	3	3	4 4	500.00	-3000.0	-5000.0	0.25	-0.25	-25.0	-20.0	7500.0	CL8180R	48.1	1	0	5	5	7285.4	cl818wz	48.1	1	0	5	5	7285.4
8 4	8332	10	5	3	3	4 4	500.00	-3000.0	-5000.0	0.25	-0.25	-25.0	-20.0	7500.0	CL8180R	-80.5	0	0	5	5	7285.4	cl818wz	-80.5	0	0	5	5	7285.4
8 4	3922	5	10	3	3	4 4	500.00	-3000.0	-5000.0	0.25	-0.35	-25.0	-20.0	3700.0	CL8180R	-39.4	0	0	4	4	3443.8	cl818wz	-39.4	0	0	4	4	3443.8
8 4	8458	5	10	3	3	4 4	500.00	-3000.0	-5000.0	0.25	-0.35	-25.0	-20.0	7500.0	CL8180R	-53.8	0	0	5	5	7243.8	cl818wz	-53.8	0	0	5	5	7243.8
8 4	1675	10	5	3	3	4 4	500.00	-5000.0	-3000.0	0.15	-0.15	-25.0	-20.0	3700.0	CL8180R	55.2	1	0	4	4	3527.1	cl818wz	55.2	1	0	4	4	3527.1
8 4	6211	10	5	3	3	4 4	500.00	-5000.0	-3000.0	0.15	-0.15	-25.0	-20.0	7500.0	CL8180R	-86.5	0	0	5	5	7239.2	cl818wz	-86.5	0	0	5	5	7239.2
8 4	1801	5	10	3	3	4 4	500.00	-5000.0	-3000.0	0.15	-0.25	-25.0	-20.0	3700.0	CL8180R	-18.2	0	0	4	4	3439.2	cl818wz	-18.2	0	0	4	4	3439.2
8 4	1801	10	5	3	3	4 4	500.00	-5000.0	-3000.0	0.15	-0.25	-25.0	-20.0	3700.0	CL8180R	-86.5	0	0	4	4	3439.2	cl818wz	-86.5	0	0	4	4	3439.2
8 4	6337	5	10	3	3	4 4	500.00	-5000.0	-3000.0	0.15	-0.25	-25.0	-20.0	7500.0	CL8180R	-18.2	0	0	5	5	7239.2	cl818wz	-18.2	0	0	5	5	7239.2
8 4	3313	5	10	3	3	4 4	500.00	-5000.0	-3000.0	0.25	-0.25	-25.0	-20.0	3700.0	CL8180R	-92.4	0	0	4	4	3443.7	cl818wz	-92.4	0	0	4	4	3443.7
8 4	1647	10	5	3	3	4 4	500.00	-5000.0	-5000.0	0.15	-0.15	-25.0	-25.0	3700.0	CL8180R	45.1	1	0	4	4	3527.1	cl818wz	45.1	1	0	4	4	3527.1
8 4	6183	10	5	3	3	4 4	500.00	-5000.0	-5000.0	0.15	-0.15	-25.0	-25.0	7500.0	CL8180R	45.1	1	0	5	5	7327.1	cl818wz	45.1	1	0	5	5	7327.1
8 4	1640	5	10	3	3	4 4	500.00	-5000.0	-5000.0	0.15	-0.15	-25.0	-30.0	3700.0	CL8180R	-72.4	0	0	4	4	3385.0	cl818wz	-72.4	0	0	4	4	3385.0
8 4	1640	10	5	3	3	4 4	500.00	-5000.0	-5000.0	0.15	-0.15	-25.0	-30.0	3700.0	CL8180R	13.6	0	0	4	4	3485.4	cl818wz	13.6	0	0	4	4	3485.4
8 4	6176	5	10	3	3	4 4	500.00	-5000.0	-5000.0	0.15	-0.15	-25.0	-30.0	7500.0	CL8180R	-72.4	0	0	5	5	7185.0	cl818wz	-72.4	0	0	5	5	7185.0
8 4	6176	10	5	3	3	4 4	500.00	-5000.0	-5000.0	0.15	-0.15	-25.0	-30.0	7500.0	CL8180R	13.6	0	0	5	5	7285.4	cl818wz	13.6	0	0	5	5	7285.4
8 4	1780	5	10	3	3	4 4	500.00	-5000.0	-5000.0	0.15	-0.25	-25.0	-20.0	3700.0	CL8180R	42.2	1	0	4	4	3439.2	cl818wz	42.2	1	0	4	4	3439.2
8 4	6316	5	10	3	3	4 4	500.00	-5000.0	-5000.0	0.15	-0.25	-25.0	-20.0	7500.0	CL8180R	42.2	1	0	5	5	7239.2	cl818wz	42.2	1	0	5	5	7239.2
8 4	6309	10	5	3	3	4 4	500.00	-5000.0	-5000.0	0.15	-0.25	-25.0	-25.0	7500.0	CL8180R	13.6	0	0	5	5	7285.4	cl818wz	13.6	0	0	5	5	7285.4
8 4	1906	5	10	3	3	4 4	500.00	-5000.0	-5000.0	0.15	-0.35	-25.0	-20.0	3700.0	CL8180R	-18.2	0	0	4	4	3439.2	cl818wz	-18.2	0	0	4	4	3439.2
8 4	1906	10	5	3	3	4 4	500.00	-5000.0	-5000.0	0.15	-0.35	-25.0	-20.0	3700.0	CL8180R	13.6	0	0	4	4	3485.4	cl818wz	13.6	0	0	4	4	3485.4
8 4	6442	5	10	3	3	4 4	500.00	-5000.0	-5000.0	0.15	-0.35	-25.0	-20.0	7500.0	CL8180R	-18.2	0	0	5	5	7239.2	cl818wz	-18.2	0	0	5	5	7239.2
8 4	6442	10	5	3	3	4 4	500.00	-5000.0	-5000.0	0.15	-0.35	-25.0	-20.0	7500.0	CL8180R	13.6	0	0	5	5	7285.4	cl818wz	13.6	0	0	5	5	7285.4
8 4	6435	5	10	3	3	4 4	500.00	-5000.0	-5000.0	0.15	-0.35	-25.0	-25.0	7500.0	CL8180R	-18.2	0	0	5	5	7239.2	cl818wz	-18.2	0	0	5	5	7239.2
8 4	6435	10	5	3	3	4 4	500.00	-5000.0	-5000.0	0.15	-0.35	-25.0	-25.0	7500.0	CL8180R	-86.5	0	0	5	5	7239.2	cl818wz	-86.5	0	0	5	5	7239.2
8 4	3159	5	10	3	3	4 4	500.00	-5000.0	-5000.0	0.25	-0.15	-25.0	-25.0	3700.0	CL8180R	62.6	1	0	4	4	3485.4	cl818wz	62.6	1	0	4	4	3485.4
8 4	7695	5	10	3	3	4 4	500.00	-5000.0	-5000.0	0.25	-0.15	-25.0	-25.0	7500.0	CL8180R	48.2	1	0	5	5	7285.4	cl818wz	48.2	1	0	5	5	7285.4
8 4	3152	5	10	3	3	4 4	500.00	-5000.0	-5000.0	0.25	-0.15	-25.0	-30.0	3700.0	CL8180R	-39.4	0	0	4	4	3443.7	cl818wz	-39.4	0	0	4	4	3443.7
8 4	3292	10	5	3	3	4 4	500.00	-5000.0	-5000.0	0.25	-0.25	-25.0	-20.0	3700.0	CL8180R	44.0	1	0	4	4	3527.1	cl818wz	44.0	1	0	4	4	3527.1
8 4	7828	10	5	3	3	4 4	500.00	-5000.0	-5000.0	0.25	-0.25	-25.0	-20.0	7500.0	CL8180R	29.5	1	0	5	5	7327.1	cl818wz	29.5	1	0	5	5	7327.1
8 4	3418	5	10	3	3	4 4	500.00	-5000.0	-5000.0	0.25	-0.35	-25.0	-20.0	3700.0	CL8180R	-39.4	0	0	4	4	3443.7	cl818wz	-39.4	0	0	4	4	3443.7
8 4	7954	5	10	3	3	4 4	500.00	-5000.0	-5000.0	0.25	-0.35	-25.0	-20.0	7500.0	CL8180R	-53.8	0	0	5	5	7243.8	cl818wz	-53.8	0	0	5	5	7243.8
8 4	1135	5	10	3	3	4 4	750.00	-1000.0	-5000.0	0.05	-0.15	-25.0	-30.0	3700.0	CL8180R	-70.6	0	0	4	4	3360.4	cl818wz	-70.6	0	0	4	4	3360.4
8 4	1275	5	10	3	3	4 4	750.00	-1000.0	-5000.0	0.05	-0.25	-25.0	-20.0	3700.0	CL8180R	68.4	1	0	4	4	3402.1	cl818wz	68.4	1	0	4	4	3402.1
8 4	5811	5	10	3	3	4 4	750.00	-1000.0	-5000.0	0.05	-0.25	-25.0	-20.0	7500.0	CL8180R	47.5	0	0	5	5	7202.1	cl818wz	47.5	0	0	5	5	7202.1
8 4	1268	5	10	3	3	4 4	750.00	-1000.0	-5000.0	0.05	-0.25	-25.0	-25.0	3700.0	CL8180R	47.5	0	0	4	4	3402.1	cl818wz	47.5	0	0	4	4	3402.1
8 4	1268	10	5	3	3	4 4	750.00	-1000.0	-5000.0	0.05	-0.25	-25.0	-25.0	3700.0	CL8180R	-92.4	0	0	4	4	3402.1	cl818wz	-92.4	0	0	4	4	3402.1
8 4	5804	5	10	3	3	4 4	750.00	-1000.0	-5000.0	0.05	-0.25	-25.0	-25.0	7500.0	CL8180R	-70.6	0	0	5	5	7160.4	cl818wz	-70.6	0	0	5	5	7160.4
8 4	1401	5	10	3	3	4 4	750.00	-1000.0	-5000.0	0.05	-0.35	-25.0	-20.0	3700.0	CL8180R	47.5	0	0	4	4	3402.1	cl818wz	47.5	0	0	4	4	3402.1
8 4	1401	10	5	3	3	4 4	750.00	-1000.0	-5000.0	0.05	-0.35	-25.0	-20.0	3700.0	CL8180R	-92.4	0	0	4	4	3402.1	cl818wz	-92.4	0	0	4	4	3402.1
8 4	5937	5	10	3	3	4 4	750.00	-1000.0	-5000.0	0.05	-0.35	-25.0	-20.0	7500.0	CL8180R	47.5	0	0	5	5	7202.1	cl818wz	47.5	0	0	5	5	7202.1
8 4	2780	5	10	3	3	4 4	750.00	-1000.0	-5000.0	0.15	-0.25	-25.0	-25.0	3700.0	CL8180R	-70.6	0	0	4	4	3360.4	cl818wz	-70.6	0	0	4	4	3360.4
8 4	2913	5	10	3	3	4 4	750.00	-1000.0	-5000.0	0.15	-0.35	-25.0	-20.0	3700.0	CL8180R	47.5	0	0	4	4	3402.1	cl818wz	47.5	0	0	4	4	3402.1
8 4	2913	10	5	3	3	4 4	750.00	-1000.0	-5000.0	0.15	-0.35	-25.0	-20.0	3700.0	CL8180R	-92.4	0	0	4	4	3402.1	cl818wz	-92.4	0	0	4	4	3402.1
8 4	7449	5	10	3	3	4 4	750.00	-1000.0	-5000.0	0.15	-0.35	-25.0	-20.0	7500.0	CL8180R	47.5	0	0	5	5	7202.1	cl818wz	47.5	0	0	5	5	7202.1
8 4	4292	5	10	3	3	4 4	750.00	-1000.0	-5000.0	0.25	-0.25	-25.0	-25.0	3700.0	CL8180R	-70.6	0	0	4	4	3360.4	cl818wz	-70.6	0	0	4	4	3360.4
8 4	4425	5	10	3	3	4 4	750.00	-1000.0	-5000.0	0.25	-0.35	-25.0	-20.0	3700.0	CL8180R	47.5	0	0	4	4	3402.1	cl818wz	47.5	0	0	4	4	3402.1
8 4	4425	10	5	3	3	4 4	750.00	-1000.0	-5000.0	0.25	-0.35	-25.0	-20.0	3700.0	CL8180R	-92.4	0	0	4	4	3402.1	cl818wz	-92.4	0	0	4	4	3402.1
8 4	8961	5	10	3	3	4 4	750.00	-1000.0	-5000.0	0.25	-0.35	-25.0	-20.0	7500.0	CL8180R	47.5	0	0	5	5	7202.1	cl818wz	47.5	0	0	5	5	7202.1
8 4	771	10	5	3	3	4 4	750.00	-3000.0	-5000.0	0.05	-0.25	-25.0	-20.0	3700.0	CL8180R	-57.9	1	0	4	4	3491.7	cl818wz	-57.9	1	0	4	4	3491.7
8 4	5307	10	5	3	3	4 4	750.00	-3000.0	-5000.0	0.05	-0.25	-25.0	-20.0	7500.0	CL8180R	-57.9	1	0	5	5	7291.7	cl818wz	-57.9	1	0	5	5	7291.7
8 4	897	10	5	3	3	4 4	750.00	-3000.0	-5000.0	0.05	-0.35	-25.0	-20.0	3700.0	CL8180R	55.1	1	0	4	4	3491.7	cl818wz	55.1	1	0	4	4	3491.7
8 4	5433	10	5	3	3	4 4	750.00	-3000.0	-5000.0	0.05	-0.35	-25.0	-20.0	7500.0	CL8180R	55.1	1	0	5	5	7291.7	cl818wz	55.1	1	0	5	5	7291.7
8 4	2143	10	5	3	3	4 4	750.00	-3000.0	-5000.0	0.15	-0.15	-25.0	-30.0	3700.0	CL8180R	-28.9	1	0	4	4	3402.1	cl818wz	-28.9	1	0	4	4	3402.1
8 4	6679	10	5	3	3	4 4	750.00	-3000.0	-5000.0	0.15	-0.15	-25.0	-30.0	7500.0	CL8180R	-28.9	1	0	5	5	7202.1	cl818wz	-28.9	1	0	5	5	7202.1
8 4	2283	5	10	3	3	4 4	750.00	-3000.0	-5000.0	0.15	-0.25	-25.0	-20.0	3700.0	CL8180R	-78.1	0	0	4	4	3360.4	cl818wz	-78.1	0	0	4	4	3360.4
8 4	6819	5	10	3	3	4 4	750.00	-3000.0	-5000.0	0.15	-0.25	-25.0	-20.0	7500.0	CL8180R	-99.1	0	0	5	5	7160.4	cl818wz	-99.1	0	0	5	5	7160.4
8 4	2409	5	10	3	3	4 4	750.00	-3000.0	-5000.0	0.15	-0.35	-25.0	-20.0	3700.0	CL8180R	47.5	0	0	4	4	3402.1	cl818wz	47.5	0	0	4	4	3402.1
8 4	2409	10	5	3	3	4 4	750.00	-3000.0	-5000.0	0.15	-0.35	-25.0	-20.0	3700.0	CL8180R	-92.4	0	0	4	4	3402.1	cl818wz	-92.4	0	0	4	4	3402.1
8 4	6945	5	10	3	3	4 4	750.00	-3000.0	-5000.0	0.15	-0.35	-25.0	-20.0	7500.0	CL8180R	47.5	0	0	5	5	7202.1	cl818wz	47.5	0	0	5	5	7202.1
8 4	3795	5	10	3	3	4 4	750.00	-3000.0	-5000.0	0.25	-0.25	-25.0	-20.0	3700.0	CL8180R	-78.1	0	0	4	4	3360.4	cl818wz	-78.1	0	0	4	4	3360.4

CLS TBL	REIT	Modes #1	Modes #2	R,C	R,C	CPA Alt Separat	AC#1 Rate	AC#2 Rate	AC#1 Acc.	AC#2 Acc.	AC#1 Time	AC#2 Time	AC #1 CPA Alt	Cell 3,3 Data File	Cell 3,3 Achieved Separatn	C N	I C	RAS 1	RAS 2	Cell 3,3 Own Alt CPA Ach	Cell 4,4 Data File	Cell 4,4 Achieved Separatn	C N	I C	RAS 1	RAS 2	Cell 4,4 Own Alt CPA Ach
8 4	8331	5	10	3	3	4	4	750.00	-3000.0	-5000.0	0.25	-0.25	-25.0	-20.0	7500.0	CL818OR	-99.1	0	0	5	5	7160.4	cl818wz	-99.1	0	0	5	5	7160.4
8 4	3788	5	10	3	3	4	4	750.00	-3000.0	-5000.0	0.25	-0.25	-25.0	-25.0	3700.0	CL818OR	-70.6	0	0	4	4	3360.4	cl818wz	-70.6	0	0	4	4	3360.4
8 4	3921	5	10	3	3	4	4	750.00	-3000.0	-5000.0	0.25	-0.35	-25.0	-20.0	3700.0	CL818OR	47.5	0	0	4	4	3402.1	cl818wz	47.5	0	0	4	4	3402.1
8 4	3921	10	5	3	3	4	4	750.00	-3000.0	-5000.0	0.25	-0.35	-25.0	-20.0	3700.0	CL818OR	-92.4	0	0	4	4	3402.1	cl818wz	-92.4	0	0	4	4	3402.1
8 4	8457	5	10	3	3	4	4	750.00	-3000.0	-5000.0	0.25	-0.35	-25.0	-20.0	7500.0	CL818OR	47.5	0	0	5	5	7202.1	cl818wz	47.5	0	0	5	5	7202.1
8 4	1653	10	5	3	3	4	4	750.00	-5000.0	-5000.0	0.15	-0.15	-25.0	-20.0	3700.0	CL818OR	17.8	0	0	4	4	3485.4	cl818wz	17.8	0	0	4	4	3485.4
8 4	6189	5	10	3	3	4	4	750.00	-5000.0	-5000.0	0.15	-0.15	-25.0	-20.0	7500.0	CL818OR	95.4	1	0	5	5	7239.2	cl818wz	95.4	1	0	5	5	7239.2
8 4	1646	10	5	3	3	4	4	750.00	-5000.0	-5000.0	0.15	-0.15	-25.0	-25.0	3700.0	CL818OR	-64.2	0	0	4	4	3385.0	cl818wz	-64.2	0	0	4	4	3385.0
8 4	6182	10	5	3	3	4	4	750.00	-5000.0	-5000.0	0.15	-0.15	-25.0	-25.0	7500.0	CL818OR	-64.2	0	0	5	5	7185.0	cl818wz	-64.2	0	0	5	5	7185.0
8 4	1772	5	10	3	3	4	4	750.00	-5000.0	-5000.0	0.15	-0.25	-25.0	-25.0	3700.0	CL818OR	-14.5	0	0	4	4	3337.6	cl818wz	-11.0	0	0	4	4	3341.1
8 4	1772	10	5	3	3	4	4	750.00	-5000.0	-5000.0	0.15	-0.25	-25.0	-25.0	3700.0	CL818OR	-99.0	0	0	4	4	3337.6	cl818wz	-95.5	0	0	4	4	3341.1
8 4	6308	5	10	3	3	4	4	750.00	-5000.0	-5000.0	0.15	-0.25	-25.0	-25.0	7500.0	CL818OR	-14.5	0	0	5	5	7137.7	cl818wz	-11.0	0	0	5	5	7141.2
8 4	6308	10	5	3	3	4	4	750.00	-5000.0	-5000.0	0.15	-0.25	-25.0	-25.0	7500.0	CL818OR	-99.0	0	0	5	5	7137.7	cl818wz	-95.5	0	0	5	5	7141.2
8 4	3151	10	5	3	3	4	4	750.00	-5000.0	-5000.0	0.25	-0.15	-25.0	-30.0	3700.0	CL818OR	-28.9	1	0	4	4	3402.1	cl818wz	-28.9	1	0	4	4	3402.1
8 4	7687	10	5	3	3	4	4	750.00	-5000.0	-5000.0	0.25	-0.15	-25.0	-30.0	7500.0	CL818OR	-28.9	1	0	5	5	7202.1	cl818wz	-28.9	1	0	5	5	7202.1
8 4	3291	5	10	3	3	4	4	750.00	-5000.0	-5000.0	0.25	-0.25	-25.0	-20.0	3700.0	CL818OR	68.4	1	0	4	4	3402.1	cl818wz	68.4	1	0	4	4	3402.1
8 4	3291	10	5	3	3	4	4	750.00	-5000.0	-5000.0	0.25	-0.25	-25.0	-20.0	3700.0	CL818OR	-36.5	1	0	4	4	3402.1	cl818wz	-36.5	1	0	4	4	3402.1
8 4	7827	5	10	3	3	4	4	750.00	-5000.0	-5000.0	0.25	-0.25	-25.0	-20.0	7500.0	CL818OR	-99.1	0	0	5	5	7160.4	cl818wz	-99.1	0	0	5	5	7160.4
8 4	7827	10	5	3	3	4	4	750.00	-5000.0	-5000.0	0.25	-0.25	-25.0	-20.0	7500.0	CL818OR	-57.4	0	0	5	5	7202.1	cl818wz	-57.4	0	0	5	5	7202.1
8 4	3417	10	5	3	3	4	4	750.00	-5000.0	-5000.0	0.25	-0.35	-25.0	-20.0	3700.0	CL818OR	12.8	1	0	4	4	3443.7	cl818wz	12.8	1	0	4	4	3443.7
8 4	7953	10	5	3	3	4	4	750.00	-5000.0	-5000.0	0.25	-0.35	-25.0	-20.0	7500.0	CL818OR	12.8	1	0	5	5	7243.8	cl818wz	12.8	1	0	5	5	7243.8
8 4	1384	5	10	3	3	4	4	-250.00	-1000.0	5000.0	0.05	0.25	-25.0	-20.0	3700.0	CL818OR	67.7	0	0	4	4	3872.9	cl818wz	67.7	0	0	4	4	3872.9
8 4	2896	5	10	3	3	4	4	-250.00	-1000.0	5000.0	0.15	0.25	-25.0	-20.0	3700.0	CL818OR	67.7	0	0	4	4	3872.9	cl818wz	67.7	0	0	4	4	3872.9
8 4	3022	5	10	3	3	4	4	-250.00	-1000.0	5000.0	0.15	0.35	-25.0	-20.0	3700.0	CL818OR	67.7	0	0	4	4	3872.9	cl818wz	67.7	0	0	4	4	3872.9
8 4	4408	5	10	3	3	4	4	-250.00	-1000.0	5000.0	0.25	0.25	-25.0	-20.0	3700.0	CL818OR	67.7	0	0	4	4	3872.9	cl818wz	67.7	0	0	4	4	3872.9
8 4	4534	5	10	3	3	4	4	-250.00	-1000.0	5000.0	0.25	0.35	-25.0	-20.0	3700.0	CL818OR	67.7	0	0	4	4	3872.9	cl818wz	67.7	0	0	4	4	3872.9
8 4	3904	5	10	3	3	4	4	-250.00	-3000.0	5000.0	0.25	0.25	-25.0	-20.0	3700.0	CL818OR	67.7	0	0	4	4	3872.9	cl818wz	67.7	0	0	4	4	3872.9
8 4	4030	5	10	3	3	4	4	-250.00	-3000.0	5000.0	0.25	0.35	-25.0	-20.0	3700.0	CL818OR	67.7	0	0	4	4	3872.9	cl818wz	67.7	0	0	4	4	3872.9
8 4	1385	5	10	3	3	4	4	-500.00	-1000.0	5000.0	0.05	0.25	-25.0	-20.0	3700.0	CL818OR	39.4	0	0	4	4	3956.2	cl818wz	39.4	0	0	4	4	3956.2
8 4	5921	5	10	3	3	4	4	-500.00	-1000.0	5000.0	0.05	0.25	-25.0	-20.0	7500.0	CL818OR	53.8	0	0	5	5	7756.2	cl818wz	53.8	0	0	5	5	7756.2
8 4	1511	5	10	3	3	4	4	-500.00	-1000.0	5000.0	0.05	0.35	-25.0	-20.0	3700.0	CL818OR	39.4	0	0	4	4	3956.2	cl818wz	39.4	0	0	4	4	3956.2
8 4	2764	5	10	3	3	4	4	-500.00	-1000.0	5000.0	0.15	0.15	-25.0	-25.0	3700.0	CL818OR	38.8	0	0	4	4	3945.5	cl818wz	38.8	0	0	4	4	3945.5
8 4	2897	5	10	3	3	4	4	-500.00	-1000.0	5000.0	0.15	0.25	-25.0	-20.0	3700.0	CL818OR	-62.6	1	0	4	4	3914.6	cl818wz	-62.6	1	0	4	4	3914.6
8 4	2897	10	5	3	3	4	4	-500.00	-1000.0	5000.0	0.15	0.25	-25.0	-20.0	3700.0	CL818OR	66.1	0	0	4	4	3914.6	cl818wz	66.1	0	0	4	4	3914.6
8 4	7433	5	10	3	3	4	4	-500.00	-1000.0	5000.0	0.15	0.25	-25.0	-20.0	7500.0	CL818OR	-48.2	1	0	5	5	7714.6	cl818wz	-48.2	1	0	5	5	7714.6
8 4	7433	10	5	3	3	4	4	-500.00	-1000.0	5000.0	0.15	0.25	-25.0	-20.0	7500.0	CL818OR	80.5	0	0	5	5	7714.6	cl818wz	80.5	0	0	5	5	7714.6
8 4	3023	5	10	3	3	4	4	-500.00	-1000.0	5000.0	0.15	0.35	-25.0	-20.0	3700.0	CL818OR	39.4	0	0	4	4	3956.2	cl818wz	39.4	0	0	4	4	3956.2
8 4	7559	5	10	3	3	4	4	-500.00	-1000.0	5000.0	0.15	0.35	-25.0	-20.0	7500.0	CL818OR	53.8	0	0	5	5	7756.2	cl818wz	53.8	0	0	5	5	7756.2
8 4	4276	5	10	3	3	4	4	-500.00	-1000.0	5000.0	0.25	0.15	-25.0	-25.0	3700.0	CL818OR	38.8	0	0	4	4	3945.5	cl818wz	38.8	0	0	4	4	3945.5
8 4	4409	5	10	3	3	4	4	-500.00	-1000.0	5000.0	0.25	0.25	-25.0	-20.0	3700.0	CL818OR	-62.6	1	0	4	4	3914.6	cl818wz	-62.6	1	0	4	4	3914.6
8 4	4409	10	5	3	3	4	4	-500.00	-1000.0	5000.0	0.25	0.25	-25.0	-20.0	3700.0	CL818OR	66.1	0	0	4	4	3914.6	cl818wz	66.1	0	0	4	4	3914.6
8 4	8945	5	10	3	3	4	4	-500.00	-1000.0	5000.0	0.25	0.25	-25.0	-20.0	7500.0	CL818OR	-48.2	1	0	5	5	7714.6	cl818wz	-48.2	1	0	5	5	7714.6
8 4	8945	10	5	3	3	4	4	-500.00	-1000.0	5000.0	0.25	0.25	-25.0	-20.0	7500.0	CL818OR	80.5	0	0	5	5	7714.6	cl818wz	80.5	0	0	5	5	7714.6
8 4	4535	5	10	3	3	4	4	-500.00	-1000.0	5000.0	0.25	0.35	-25.0	-20.0	3700.0	CL818OR	39.4	0	0	4	4	3956.2	cl818wz	39.4	0	0	4	4	3956.2
8 4	9071	5	10	3	3	4	4	-500.00	-1000.0	5000.0	0.25	0.35	-25.0	-20.0	7500.0	CL818OR	53.8	0	0	5	5	7756.2	cl818wz	53.8	0	0	5	5	7756.2
8 4	881	5	10	3	3	4	4	-500.00	-3000.0	5000.0	0.05	0.25	-25.0	-20.0	3700.0	CL818OR	36.8	0	0	4	4	3979.4	cl818wz	36.8	0	0	4	4	3979.4
8 4	3905	5	10	3	3	4	4	-500.00	-3000.0	5000.0	0.25	0.25	-25.0	-20.0	3700.0	CL818OR	-62.6	1	0	4	4	3914.6	cl818wz	-62.6	1	0	4	4	3914.6
8 4	3905	10	5	3	3	4	4	-500.00	-3000.0	5000.0	0.25	0.25	-25.0	-20.0	3700.0	CL818OR	66.1	0	0	4	4	3914.6	cl818wz	66.1	0	0	4	4	3914.6
8 4	4031	5	10	3	3	4	4	-500.00	-3000.0	5000.0	0.25	0.35	-25.0	-20.0	3700.0	CL818OR	39.4	0	0	4	4	3956.2	cl818wz	39.4	0	0	4	4	3956.2
8 4	----------			3	3	4	4	Subtotal =	177	NMACs																	
8 4	2124	10	5			4	4	250.00	-3000.0	5000.0	0.15	0.05	-25.0	-30.0	3700.0								cl818wz	-87.5	0	1	4	4	3677.5
8 4	2144	5	10			4	4	500.00	-3000.0	-5000.0	0.15	-0.15	-25.0	-30.0	3700.0								cl818wz	-39.4	0	0	4	4	3443.8
8 4	2277	5	10			4	4	500.00	-3000.0	-5000.0	0.15	-0.25	-25.0	-25.0	3700.0								cl818wz	-39.4	0	0	4	4	3443.8
8 4	3285	5	10			4	4	500.00	-5000.0	-5000.0	0.25	-0.25	-25.0	-25.0	3700.0								cl818wz	-39.4	0	0	4	4	3443.7
8 4	7821	5	10			4	4	500.00	-5000.0	-5000.0	0.25	-0.25	-25.0	-25.0	7500.0								cl818wz	-53.8	0	0	5	5	7243.8
8 4	2395	5	10			4	4	750.00	-3000.0	-5000.0	0.15	-0.35	-25.0	-30.0	3700.0								cl818wz	-70.6	0	0	4	4	3360.4
8 4	4711	10	5			4	4	-750.00	-5000.0	-1000.0	0.05	-0.15	-25.0	-30.0	7500.0								cl818wz	68.5	0	0	5	5	7818.5
8 4	4844	10	5			4	4	-750.00	-5000.0	-1000.0	0.05	-0.25	-25.0	-25.0	7500.0								cl818wz	67.9	0	0	5	5	7818.5
8 4	4837	10	5			4	4	-750.00	-5000.0	-1000.0	0.05	-0.25	-25.0	-30.0	7500.0								cl818wz	68.5	0	0	5	5	7818.5
8 4	4970	10	5			4	4	-750.00	-5000.0	-1000.0	0.05	-0.35	-25.0	-25.0	7500.0								cl818wz	63.0	0	0	5	5	7818.5
8 4	4963	10	5			4	4	-750.00	-5000.0	-1000.0	0.05	-0.35	-25.0	-30.0	7500.0								cl818wz	68.5	0	0	5	5	7818.5
8 4	----------					4	4	Subtotal =	11	NMACs																	

CLS TBL	REIT	Modes #1	Modes #2	R,C	R,C	CPA Alt Separat	AC#1 Rate	AC#2 Rate	AC#1 Acc.	AC#2 Acc.	AC#1 Time	AC#2 Time	AC #1 CPA Alt	Cell 3,3 Data File	Cell 3,3 Achieved Separatn	Cell 3,3 N	Cell 3,3 C	Cell 3,3 I	Cell 3,3 RAS 1	Cell 3,3 RAS 2	Cell 3,3 Own Alt CPA Ach	Cell 4,4 Data File	Cell 4,4 Achieved Separatn	Cell 4,4 N	Cell 4,4 C	Cell 4,4 I	Cell 4,4 RAS 1	Cell 4,4 RAS 2	Cell 4,4 Own Alt CPA Ach
9 3	3272	5	10	3	3	0.00	5000.0	-3000.0	-0.15	0.05	-25.0	-30.0	3700.0	cl919or	-0.0	0	0	4	4	3700.0								
9 3	3272	10	5	3	3	0.00	5000.0	-3000.0	-0.15	0.05	-25.0	-30.0	3700.0	cl919or	-0.0	0	0	4	4	3700.0								
9 3	----------			3	3	Subtotal =	2	NMACs																				
9 4	796	10	5	3	3	250.00	3000.0	5000.0	-0.05	-0.05	-25.0	-25.0	3700.0	cl919or	-61.4	0	1	4	4	3437.8								
9 4	1551	10	5	3	3	500.00	5000.0	1000.0	-0.05	-0.15	-25.0	-25.0	3700.0	cl919or	-68.4	0	0	4	4	3167.8								
9 4	1713	10	5	3	3	500.00	5000.0	1000.0	-0.05	-0.25	-25.0	-25.0	3700.0	cl919or	-68.4	0	0	4	4	3167.8								
9 4	1419	5	10	3	3	-250.00	5000.0	3000.0	-0.05	-0.05	-25.0	-25.0	3700.0	cl919or	45.4	0	1	4	4	3787.3								
9 4	1410	5	10	3	3	-250.00	5000.0	3000.0	-0.05	-0.05	-25.0	-30.0	3700.0	cl919or	-21.8	0	1	4	4	3717.7								
9 4	1410	10	5	3	3	-250.00	5000.0	3000.0	-0.05	-0.05	-25.0	-30.0	3700.0	cl919or	84.4	0	1	4	4	3717.7								
9 4	5370	5	10	3	3	-250.00	5000.0	-5000.0	-0.05	0.15	-25.0	-20.0	7500.0	cl919or	-22.0	0	0	4	6	6877.4								
9 4	1644	5	10	3	3	-250.00	5000.0	-5000.0	-0.05	0.25	-25.0	-20.0	3700.0	cl919or	10.2	0	1	4	4	3787.3								
9 4	----------			3	3	Subtotal =	8	NMACs																				
9 4	3523	10	5	3	3	4 4 250.00	5000.0	3000.0	-0.15	-0.15	-25.0	-25.0	3700.0	cl919or	-54.3	0	0	4	4	3485.3	cl919wz	-54.3	0	0	4	4	3485.3
9 4	1644	10	5	3	3	4 4 -250.00	5000.0	-5000.0	-0.05	0.25	-25.0	-20.0	3700.0	cl919or	93.5	0	1	4	4	3787.3	cl919wz	-27.8	0	1	4	4	3749.3
9 4	1806	5	10	3	3	4 4 -250.00	5000.0	-5000.0	-0.05	0.35	-25.0	-20.0	3700.0	cl919or	73.3	0	1	4	4	3808.7	cl919wz	-51.3	1	1	4	4	3767.5
9 4	2095	5	10	3	3	4 4 -500.00	1000.0	5000.0	-0.15	-0.05	-25.0	-25.0	3700.0	cl919or	68.4	0	0	4	4	3736.2	cl919wz	68.4	0	0	4	4	3736.2
9 4	1738	5	10	3	3	4 4 1000.00	5000.0	3000.0	-0.05	-0.25	-25.0	-25.0	3700.0	cl919or	81.0	1	0	3	4	2831.6	cl919wz	81.0	1	0	3	4	2831.6
9 4	----------			3	3	4 Subtotal =	5	NMACs																				
9 4	1740	10	5		4	4 500.00	5000.0	3000.0	-0.05	-0.25	-25.0	-25.0	3700.0									cl919wz	-1.1	0	0	4	4	3235.1
9 4	1509	10	5		4	4 -250.00	5000.0	-3000.0	-0.05	0.15	-25.0	-20.0	3700.0									cl919wz	-27.8	0	1	3	4	3749.3
9 4	1473	10	5		4	4 -250.00	5000.0	-5000.0	-0.05	0.15	-25.0	-25.0	3700.0									cl919wz	-27.8	0	1	4	4	3749.3
9 4	5361	10	5		4	4 -250.00	5000.0	-5000.0	-0.05	0.15	-25.0	-25.0	7500.0									cl919wz	-27.8	0	1	5	5	7549.3
9 4	5532	10	5		4	4 -250.00	5000.0	-5000.0	-0.05	0.25	-25.0	-20.0	7500.0									cl919wz	-27.8	0	1	5	5	7549.3
9 4	1806	10	5		4	4 -250.00	5000.0	-5000.0	-0.05	0.35	-25.0	-20.0	3700.0									cl919wz	32.1	0	1	4	4	3767.5
9 4	5694	5	10		4	4 -250.00	5000.0	-5000.0	-0.05	0.35	-25.0	-20.0	7500.0									cl919wz	-51.3	0	1	5	5	7567.5
9 4	5694	10	5		4	4 -250.00	5000.0	-5000.0	-0.05	0.35	-25.0	-20.0	7500.0									cl919wz	32.0	0	1	5	5	7567.5
9 4	3264	5	10		4	4 -250.00	5000.0	-5000.0	-0.15	0.05	-25.0	-20.0	3700.0									cl919wz	-69.5	0	1	4	5	3831.2
9 4	3255	5	10		4	4 -250.00	5000.0	-5000.0	-0.15	0.05	-25.0	-25.0	3700.0									cl919wz	-9.6	0	1	4	5	3872.9
9 4	3255	10	5		4	4 -250.00	5000.0	-5000.0	-0.15	0.05	-25.0	-25.0	3700.0									cl919wz	-93.0	1	1	4	4	3789.6
9 4	3246	5	10		4	4 -250.00	5000.0	-5000.0	-0.15	0.05	-25.0	-30.0	3700.0									cl919wz	51.9	0	1	4	5	3914.6
9 4	3246	10	5		4	4 -250.00	5000.0	-5000.0	-0.15	0.05	-25.0	-30.0	3700.0									cl919wz	-31.4	0	1	4	4	3831.2
9 4	----------				4	4 Subtotal =	13	NMACs																				
12 4	1421	5	10	3	3	4 4 -750.00	400.0	3000.0	0.00	0.25	0.0	-25.0	3720.0	cl212ot	-25.6	0	1	4	4	3742.5	cl212uz	-25.6	0	1	4	4	3742.5
12 4	----------			3	3	4 4 Subtotal =	1	NMACs																				
13 4	1533	5	10	3	3	500.00	0.0	5000.0	0.00	-0.25	0.0	-20.0	3720.0	cl313mq	-60.6	0	1	4	4	3508.9								
13 4	642	5	10	3	3	500.00	0.0	5000.0	0.00	-0.35	0.0	-20.0	3680.0	cl313mq	-50.7	0	1	4	4	3468.9								
13 4	2586	5	10	3	3	500.00	0.0	5000.0	0.00	-0.35	0.0	-20.0	7480.0	cl313mq	-50.7	0	1	5	5	7268.9								
13 4	966	5	10	3	3	500.00	400.0	5000.0	0.00	-0.35	0.0	-20.0	3680.0	cl313mq	-93.9	0	1	4	4	3425.7								
13 4	2910	5	10	3	3	500.00	400.0	5000.0	0.00	-0.35	0.0	-20.0	7480.0	cl313mq	-93.9	0	1	5	5	7225.7								
13 4	237	5	10	3	3	500.00	-400.0	5000.0	0.00	-0.25	0.0	-20.0	3680.0	cl313mq	-11.9	0	1	4	4	3517.6								
13 4	318	5	10	3	3	500.00	-400.0	5000.0	0.00	-0.35	0.0	-20.0	3680.0	cl313mq	-2.0	0	1	4	4	3517.6								
13 4	318	10	5	3	3	500.00	-400.0	5000.0	0.00	-0.35	0.0	-20.0	3680.0	cl313mq	-85.3	0	1	4	4	3517.6								
13 4	1290	5	10	3	3	500.00	-400.0	5000.0	0.00	-0.35	0.0	-20.0	3720.0	cl313mq	-49.7	0	1	4	4	3468.2								
13 4	2262	5	10	3	3	500.00	-400.0	5000.0	0.00	-0.35	0.0	-20.0	7480.0	cl313mq	-62.0	0	1	5	5	7299.2								
13 4	641	5	10	3	3	750.00	0.0	5000.0	0.00	-0.35	0.0	-20.0	3680.0	cl313mq	-18.8	0	1	4	4	3381.2								
13 4	1613	5	10	3	3	750.00	0.0	5000.0	0.00	-0.35	0.0	-20.0	3720.0	cl313mq	-27.1	0	1	4	4	3412.9								
13 4	2576	10	5	3	3	750.00	0.0	5000.0	0.00	-0.35	0.0	-25.0	7480.0	cl313mq	-95.8	0	1	5	5	7265.4								
13 4	965	5	10	3	3	750.00	400.0	5000.0	0.00	-0.35	0.0	-20.0	3680.0	cl313mq	-92.0	0	1	4	4	3308.0								
13 4	1937	5	10	3	3	750.00	400.0	5000.0	0.00	-0.35	0.0	-20.0	3720.0	cl313mq	-69.3	0	1	4	4	3370.7								
13 4	317	5	10	3	3	750.00	-400.0	5000.0	0.00	-0.35	0.0	-20.0	3680.0	cl313mq	24.9	0	1	4	4	3424.9								
13 4	1289	5	10	3	3	750.00	-400.0	5000.0	0.00	-0.35	0.0	-20.0	3720.0	cl313mq	41.6	0	1	4	4	3481.6								
13 4	2252	10	5	3	3	750.00	-400.0	5000.0	0.00	-0.35	0.0	-25.0	7480.0	cl313mq	-71.9	0	1	5	5	7289.4								
13 4	3224	5	10	3	3	750.00	-400.0	5000.0	0.00	-0.35	0.0	-25.0	7520.0	cl313mq	-71.4	0	1	5	5	7204.8								
13 4	----------			3	3	Subtotal =	19	NMACs																				
13 4	561	5	10	3	3	4 4 500.00	0.0	5000.0	0.00	-0.25	0.0	-20.0	3680.0	cl313mq	-60.6	0	1	4	4	3468.9	cl313wz	-7.9	0	1	4	4	3468.9
13 4	1614	5	10	3	3	4 4 500.00	0.0	5000.0	0.00	-0.35	0.0	-20.0	3720.0	cl313mq	-85.1	0	1	4	4	3432.8	cl313wz	-85.1	0	1	4	4	3432.8
13 4	----------			3	3	4 4 Subtotal =	2	NMACs																				

CLS TBL	REIT	Modes #1	Modes #2	R,C	R,C	CPA Alt Separat	AC#1 Rate	AC#2 Rate	AC#1 Acc.	AC#2 Acc.	AC#1 Time	AC#2 Time	AC #1 CPA Alt	Cell 3,3 Data File	Cell 3,3 Achieved Separatn	N	C	I	RAS 1	RAS 2	Own Alt CPA Ach	Cell 4,4 Data File	Cell 4,4 Achieved Separatn	N	C	I	RAS 1	RAS 2	Own Alt CPA Ach
13 4	561	10	5	4	4	500.00	0.0	5000.0	0.00	-0.25	0.0	-20.0	3680.0									cl313wz	42.1	0	1	4	4	3518.9
13 4	1533	10	5	4	4	500.00	0.0	5000.0	0.00	-0.25	0.0	-20.0	3720.0									cl313wz	-80.3	0	1	4	4	3533.9
13 4	----------			4	4	Subtotal =	2	NMACs																					
15 4	4471	5	10	3	3	-250.00	5000.0	5000.0	0.00	0.25	0.0	-20.0	7480.0	cl515oq	65.3	0	1	5	5	7480.0								
15 4	4472	5	10	3	3	-500.00	5000.0	5000.0	0.00	0.25	0.0	-20.0	7480.0	cl515oq	-95.4	1	1	5	5	7480.0								
15 4	3023	5	10	3	3	-500.00	5000.0	5000.0	0.00	0.35	0.0	-20.0	3720.0	cl515oq	-57.6	1	1	3	4	3720.0								
15 4	4535	5	10	3	3	-500.00	5000.0	5000.0	0.00	0.35	0.0	-20.0	7480.0	cl515oq	-19.0	0	1	5	5	7480.0								
15 4	6047	5	10	3	3	-500.00	5000.0	5000.0	0.00	0.35	0.0	-20.0	7520.0	cl515oq	-19.0	0	1	5	5	7520.0								
15 4	1442	5	10	3	3	-750.00	5000.0	5000.0	0.00	0.25	0.0	-25.0	3680.0	cl515oq	-92.1	0	1	4	4	3680.0								
15 4	2954	5	10	3	3	-750.00	5000.0	5000.0	0.00	0.25	0.0	-25.0	3720.0	cl515oq	94.0	0	1	3	4	3720.0								
15 4	1505	5	10	3	3	-750.00	5000.0	5000.0	0.00	0.35	0.0	-25.0	3680.0	cl515oq	-92.1	0	1	4	4	3680.0								
15 4	3017	5	10	3	3	-750.00	5000.0	5000.0	0.00	0.35	0.0	-25.0	3720.0	cl515oq	-92.1	1	1	4	4	3720.0								
15 4	4529	5	10	3	3	-750.00	5000.0	5000.0	0.00	0.35	0.0	-25.0	7480.0	cl515oq	31.3	0	1	5	5	7480.0								
15 4	----------			3	3	Subtotal =	10	NMACs																					
15 4	1447	5	10	3	3	4 4 -250.00	5000.0	5000.0	0.00	0.25	0.0	-20.0	3680.0	cl515oq	21.9	0	1	4	4	3680.0	cl515xz	21.9	0	1	4	4	3680.0
15 4	1510	5	10	3	3	4 4 -250.00	5000.0	5000.0	0.00	0.35	0.0	-20.0	3680.0	cl515oq	90.2	0	1	3	4	3680.0	cl515xz	90.2	0	1	3	4	3680.0
15 4	944	5	10	3	3	4 4 -500.00	1000.0	5000.0	0.00	0.25	0.0	-20.0	3680.0	cl515oq	48.7	0	0	4	4	3877.3	cl515xz	48.7	0	0	4	4	3877.3
15 4	2519	5	10	3	3	4 4 -500.00	1000.0	5000.0	0.00	0.35	0.0	-20.0	3720.0	cl515oq	23.0	0	0	4	4	3917.3	cl515xz	23.0	0	0	4	4	3917.3
15 4	5543	5	10	3	3	4 4 -500.00	1000.0	5000.0	0.00	0.35	0.0	-20.0	7520.0	cl515oq	63.2	0	0	5	5	7717.2	cl515xz	63.2	0	0	5	5	7717.2
15 4	1196	5	10	3	3	4 4 -500.00	3000.0	5000.0	0.00	0.25	0.0	-20.0	3680.0	cl515oq	-29.1	1	0	4	4	3680.0	cl515xz	-29.1	1	0	4	4	3680.0
15 4	2708	5	10	3	3	4 4 -500.00	3000.0	5000.0	0.00	0.25	0.0	-20.0	3720.0	cl515oq	-29.1	0	0	4	4	3720.0	cl515xz	-29.1	0	0	4	4	3720.0
15 4	5732	5	10	3	3	4 4 -500.00	3000.0	5000.0	0.00	0.25	0.0	-20.0	7520.0	cl515oq	-11.4	0	0	5	5	7520.0	cl515xz	-11.4	0	0	5	5	7520.0
15 4	1259	5	10	3	3	4 4 -500.00	3000.0	5000.0	0.00	0.35	0.0	-20.0	3680.0	cl515oq	-57.6	0	0	4	4	3680.0	cl515xz	-57.6	0	0	4	4	3680.0
15 4	4283	5	10	3	3	4 4 -500.00	3000.0	5000.0	0.00	0.35	0.0	-20.0	7480.0	cl515oq	-39.9	0	0	5	5	7480.0	cl515xz	-39.9	0	0	5	5	7480.0
15 4	5795	5	10	3	3	4 4 -500.00	3000.0	5000.0	0.00	0.35	0.0	-20.0	7520.0	cl515oq	-39.9	1	0	5	5	7520.0	cl515xz	-39.9	1	0	5	5	7520.0
15 4	1511	5	10	3	3	4 4 -500.00	5000.0	5000.0	0.00	0.35	0.0	-20.0	3680.0	cl515oq	-39.9	0	1	3	4	3680.0	cl515xz	-39.9	0	1	3	4	3680.0
15 4	1511	10	5	3	3	4 4 -500.00	5000.0	5000.0	0.00	0.35	0.0	-20.0	3680.0	cl515oq	26.8	1	1	3	4	3680.0	cl515xz	26.8	1	1	3	4	3680.0
15 4	1190	5	10	3	3	4 4 -750.00	3000.0	5000.0	0.00	0.25	0.0	-25.0	3680.0	cl515oq	8.3	0	1	4	4	3680.0	cl515xz	8.3	0	1	4	4	3680.0
15 4	2702	5	10	3	3	4 4 -750.00	3000.0	5000.0	0.00	0.25	0.0	-25.0	3720.0	cl515oq	94.0	0	1	4	4	3720.0	cl515xz	94.0	0	1	4	4	3720.0
15 4	4214	5	10	3	3	4 4 -750.00	3000.0	5000.0	0.00	0.25	0.0	-25.0	7480.0	cl515oq	31.4	0	1	5	5	7480.0	cl515xz	31.4	0	1	5	5	7480.0
15 4	1253	5	10	3	3	4 4 -750.00	3000.0	5000.0	0.00	0.35	0.0	-25.0	3680.0	cl515oq	94.0	0	1	4	4	3680.0	cl515xz	94.0	0	1	4	4	3680.0
15 4	2765	5	10	3	3	4 4 -750.00	3000.0	5000.0	0.00	0.35	0.0	-25.0	3720.0	cl515oq	94.0	0	1	4	4	3720.0	cl515xz	94.0	0	1	4	4	3720.0
15 4	----------			3	3	4 4 Subtotal =	18	NMACs																					
15 4	1384	5	10			4 4 -250.00	5000.0	5000.0	0.00	0.15	0.0	-20.0	3680.0									cl515xz	73.0	0	1	4	4	3680.0
15 4	2960	10	5			4 4 -500.00	5000.0	5000.0	0.00	0.25	0.0	-20.0	3720.0									cl515xz	-29.1	0	1	4	4	3720.0
15 4	3023	10	5			4 4 -500.00	5000.0	5000.0	0.00	0.35	0.0	-20.0	3720.0									cl515xz	26.8	0	1	4	4	3720.0
15 4	----------					4 4 Subtotal =	3	NMACs																					
16 4	901	5	10	3	3	-250.00	1000.0	-5000.0	0.00	0.25	0.0	-20.0	3680.0	cl616oq	68.6	0	1	4	4	3742.4								
16 4	3925	5	10	3	3	-250.00	1000.0	-5000.0	0.00	0.25	0.0	-20.0	7480.0	cl616oq	68.6	0	1	5	5	7542.3								
16 4	2407	5	10	3	3	-500.00	1000.0	-5000.0	0.00	0.25	0.0	-25.0	3720.0	cl616oq	68.6	0	1	4	4	3824.0								
16 4	5431	5	10	3	3	-500.00	1000.0	-5000.0	0.00	0.25	0.0	-25.0	7520.0	cl616oq	68.6	0	1	5	5	7624.0								
16 4	965	5	10	3	3	-500.00	1000.0	-5000.0	0.00	0.35	0.0	-20.0	3680.0	cl616oq	-10.8	0	1	4	4	3871.3								
16 4	2477	5	10	3	3	-500.00	1000.0	-5000.0	0.00	0.35	0.0	-20.0	3720.0	cl616oq	-81.4	1	1	4	4	3799.0								
16 4	2477	10	5	3	3	-500.00	1000.0	-5000.0	0.00	0.35	0.0	-20.0	3720.0	cl616oq	1.9	0	1	4	4	3799.0								
16 4	3989	5	10	3	3	-500.00	1000.0	-5000.0	0.00	0.35	0.0	-20.0	7480.0	cl616oq	89.6	0	1	5	5	7688.3								
16 4	3989	10	5	3	3	-500.00	1000.0	-5000.0	0.00	0.35	0.0	-20.0	7480.0	cl616oq	95.0	0	1	5	5	7605.0								
16 4	958	5	10	3	3	-500.00	1000.0	-5000.0	0.00	0.35	0.0	-25.0	3680.0	cl616oq	-29.8	0	1	4	4	3727.3								
16 4	3997	10	5	3	3	-750.00	1000.0	-3000.0	0.00	0.35	0.0	-30.0	7480.0	cl616oq	-77.5	0	1	5	5	7896.2								
16 4	959	5	10	3	3	-750.00	1000.0	-5000.0	0.00	0.35	0.0	-25.0	3680.0	cl616oq	-52.1	0	1	4	4	3913.4								
16 4	959	10	5	3	3	-750.00	1000.0	-5000.0	0.00	0.35	0.0	-25.0	3680.0	cl616oq	28.7	0	1	4	4	3846.7								
16 4	2471	10	5	3	3	-750.00	1000.0	-5000.0	0.00	0.35	0.0	-25.0	3720.0	cl616oq	-15.7	0	1	4	4	3842.3								
16 4	3983	5	10	3	3	-750.00	1000.0	-5000.0	0.00	0.35	0.0	-25.0	7480.0	cl616oq	-27.1	0	1	5	5	7655.0								
16 4	3983	10	5	3	3	-750.00	1000.0	-5000.0	0.00	0.35	0.0	-25.0	7480.0	cl616oq	89.6	0	1	5	5	7688.3								
16 4	5495	5	10	3	3	-750.00	1000.0	-5000.0	0.00	0.35	0.0	-25.0	7520.0	cl616oq	72.5	0	1	5	5	7836.2								
16 4	5495	10	5	3	3	-750.00	1000.0	-5000.0	0.00	0.35	0.0	-25.0	7520.0	cl616oq	97.9	0	1	5	5	7736.7								
16 4	2660	5	10	3	3	-750.00	3000.0	-5000.0	0.00	0.25	0.0	-25.0	3720.0	cl616oq	-95.3	1	1	4	5	3720.0								
16 4	2660	10	5	3	3	-750.00	3000.0	-5000.0	0.00	0.25	0.0	-25.0	3720.0	cl616oq	-95.3	1	1	4	5	3720.0								
16 4	5684	5	10	3	3	-750.00	3000.0	-5000.0	0.00	0.25	0.0	-25.0	7520.0	cl616oq	-95.3	1	1	5	5	7520.0								
16 4	5684	10	5	3	3	-750.00	3000.0	-5000.0	0.00	0.25	0.0	-25.0	7520.0	cl616oq	-95.3	1	1	5	5	7520.0								
16 4	----------			3	3	Subtotal =	22	NMACs																					

CLS TBL	REIT	Mode S #1	Mode S #2	R,C	R,C	CPA Alt Separat	AC#1 Rate	AC#2 Rate	AC#1 Acc.	AC#2 Acc.	AC#1 Time	AC#2 Time	AC #1 CPA Alt	Cell 3,3 Data File	Cell 3,3 Achieved Separatn	Cell 3,3 N	Cell 3,3 C	Cell 3,3 I	Cell 3,3 RAS 1	Cell 3,3 RAS 2	Cell 3,3 Own Alt CPA	Cell 3,3 Alt Ach	Cell 4,4 Data File	Cell 4,4 Achieved Separatn	Cell 4,4 N	Cell 4,4 C	Cell 4,4 I	Cell 4,4 RAS 1	Cell 4,4 RAS 2	Cell 4,4 Own Alt CPA	Cell 4,4 Alt Ach
16 4	2491	5	10	3	3	-500.00	1000.0	-3000.0	0.00	0.35	0.0	-25.0	3720.0	cl616oq	-85.4	1	1	4	4	4045.0		cl616xz	-85.4	1	1	4	4	4045.0	
16 4	----------			3	3	Subtotal =	1 NMACs																								
17 4	7422	10	5	3	3	500.00	5000.0	5000.0	0.15	0.25	-25.0	-25.0	7500.0	cl717p	-78.0	0	1	5	5	6922.0									
17 4	2879	5	10	3	3	500.00	5000.0	5000.0	0.15	0.25	-25.0	-30.0	3700.0	CL7170	-52.8	0	1	4	3	3160.6									
17 4	2879	10	5	3	3	500.00	5000.0	5000.0	0.15	0.25	-25.0	-30.0	3700.0	cl717p	69.4	0	1	4	3	3282.8									
17 4	3012	5	10	3	3	500.00	5000.0	5000.0	0.15	0.35	-25.0	-25.0	3700.0	CL7170	-57.1	0	1	4	3	3142.9									
17 4	3012	10	5	3	3	500.00	5000.0	5000.0	0.15	0.35	-25.0	-25.0	3700.0	cl717p	65.2	0	1	4	3	3265.1									
17 4	3005	5	10	3	3	500.00	5000.0	5000.0	0.15	0.35	-25.0	-30.0	3700.0	CL7170	-46.6	0	1	4	3	3160.6									
17 4	3005	10	5	3	3	500.00	5000.0	5000.0	0.15	0.35	-25.0	-30.0	3700.0	cl717p	75.7	0	1	4	3	3282.8									
17 4	----------			3	3	Subtotal =	7 NMACs																								
17 4	4518	10	5	3	3	250.00	5000.0	5000.0	0.25	0.35	-25.0	-30.0	3700.0	cl717p	-97.4	0	1	3	3	3359.8		cl717wz	-97.4	0	1	3	3	3359.8	
17 4	2739	5	10	3	3	500.00	5000.0	3000.0	0.15	0.15	-25.0	-25.0	3700.0	CL7170	-57.1	0	0	4	3	3142.9		cl717wz	-57.1	0	0	4	3	3142.9	
17 4	2739	10	5	3	3	500.00	5000.0	3000.0	0.15	0.15	-25.0	-25.0	3700.0	cl717p	65.1	1	1	4	3	3265.1		cl717wz	65.1	1	1	4	3	3265.1	
17 4	2732	5	10	3	3	500.00	5000.0	3000.0	0.15	0.15	-25.0	-30.0	3700.0	CL7170	-33.0	0	1	4	3	3175.1		cl717wz	-33.0	0	1	4	3	3175.1	
17 4	2732	10	5	3	3	500.00	5000.0	3000.0	0.15	0.15	-25.0	-30.0	3700.0	cl717p	89.3	1	1	4	3	3297.3		cl717wz	89.3	1	1	4	3	3297.3	
17 4	2865	5	10	3	3	500.00	5000.0	3000.0	0.15	0.25	-25.0	-25.0	3700.0	CL7170	-34.7	0	1	4	3	3175.1		cl717wz	-34.7	0	1	4	3	3175.1	
17 4	2865	10	5	3	3	500.00	5000.0	3000.0	0.15	0.25	-25.0	-25.0	3700.0	cl717p	87.6	1	1	4	3	3297.3		cl717wz	87.6	1	1	4	3	3297.3	
17 4	2858	5	10	3	3	500.00	5000.0	3000.0	0.15	0.25	-25.0	-30.0	3700.0	CL7170	-26.9	0	1	4	3	3175.1		cl717wz	-26.9	0	1	4	3	3175.1	
17 4	2858	10	5	3	3	500.00	5000.0	3000.0	0.15	0.25	-25.0	-30.0	3700.0	cl717p	95.3	1	1	4	3	3297.3		cl717wz	95.3	1	1	4	3	3297.3	
17 4	2991	5	10	3	3	500.00	5000.0	3000.0	0.15	0.35	-25.0	-25.0	3700.0	CL7170	-41.8	0	1	4	3	3175.1		cl717wz	-41.8	0	1	4	3	3175.1	
17 4	2991	10	5	3	3	500.00	5000.0	3000.0	0.15	0.35	-25.0	-25.0	3700.0	cl717p	80.5	1	1	4	3	3297.3		cl717wz	80.5	1	1	4	3	3297.3	
17 4	2984	5	10	3	3	500.00	5000.0	3000.0	0.15	0.35	-25.0	-30.0	3700.0	CL7170	-39.4	0	1	4	3	3160.6		cl717wz	-39.4	0	1	4	3	3160.6	
17 4	2984	10	5	3	3	500.00	5000.0	3000.0	0.15	0.35	-25.0	-30.0	3700.0	cl717p	82.8	1	1	4	3	3282.8		cl717wz	82.8	1	1	4	3	3282.8	
17 4	2886	5	10	3	3	500.00	5000.0	5000.0	0.15	0.25	-25.0	-25.0	3700.0	CL7170	-57.1	0	1	4	3	3142.9		cl717wz	-57.1	0	1	4	3	3142.9	
17 4	----------			3	3	Subtotal =	14 NMACs																								
18 4	4804	5	10	3	3	500.00	-5000.0	-5000.0	0.05	-0.25	-25.0	-20.0	7500.0	CL8180R	53.0	1	1	5	5	7368.3									
18 4	1576	10	5	3	3	750.00	-5000.0	1000.0	0.15	0.05	-25.0	-30.0	3700.0	CL8180R	-33.6	0	1	4	3	3263.7									
18 4	3130	10	5	3	3	750.00	-5000.0	5000.0	0.25	0.05	-25.0	-30.0	3700.0	CL8180R	67.3	0	1	4	4	3568.8									
18 4	1541	10	5	3	3	750.00	-5000.0	-3000.0	0.15	-0.05	-25.0	-25.0	3700.0	CL8180R	-44.7	0	1	4	4	3385.0									
18 4	6077	5	10	3	3	750.00	-5000.0	-3000.0	0.15	-0.05	-25.0	-25.0	7500.0	CL8180R	73.2	1	1	5	5	7185.0									
18 4	6077	10	5	3	3	750.00	-5000.0	-3000.0	0.15	-0.05	-25.0	-25.0	7500.0	CL8180R	-44.7	0	1	5	5	7185.0									
18 4	267	10	5	3	3	750.00	-5000.0	-5000.0	0.05	-0.25	-25.0	-20.0	3700.0	CL8180R	-63.8	0	1	4	4	3543.7									
18 4	4803	10	5	3	3	750.00	-5000.0	-5000.0	0.05	-0.25	-25.0	-20.0	7500.0	CL8180R	-84.7	0	1	5	5	7343.7									
18 4	393	10	5	3	3	750.00	-5000.0	-5000.0	0.05	-0.35	-25.0	-20.0	3700.0	CL8180R	49.2	0	1	4	4	3543.7									
18 4	4929	10	5	3	3	750.00	-5000.0	-5000.0	0.05	-0.35	-25.0	-20.0	7500.0	CL8180R	28.2	0	1	5	5	7343.7									
18 4	1520	10	5	3	3	750.00	-5000.0	-5000.0	0.15	-0.05	-25.0	-25.0	3700.0	CL8180R	-44.7	0	1	4	4	3385.0									
18 4	6056	5	10	3	3	750.00	-5000.0	-5000.0	0.15	-0.05	-25.0	-25.0	7500.0	CL8180R	73.2	1	1	5	5	7185.0									
18 4	6056	10	5	3	3	750.00	-5000.0	-5000.0	0.15	-0.05	-25.0	-25.0	7500.0	CL8180R	-44.7	0	1	5	5	7185.0									
18 4	----------			3	3	Subtotal =	13 NMACs																								
18 4	1550	5	10	3	3	250.00	-5000.0	-3000.0	0.15	-0.05	-25.0	-20.0	3700.0	CL8180R	-100.4	0	0	4	4	3537.8		cl818wz	-100.4	0	0	4	4	3537.8	
18 4	1529	5	10	3	3	250.00	-5000.0	-5000.0	0.15	-0.05	-25.0	-20.0	3700.0	CL8180R	-100.4	0	0	4	4	3537.8		cl818wz	-100.4	0	0	4	4	3537.8	
18 4	3593	10	5	3	3	500.00	-3000.0	1000.0	0.25	0.05	-25.0	-30.0	3700.0	CL8180R	85.4	1	1	4	4	3610.4		cl818wz	85.4	1	1	4	4	3610.4	
18 4	3726	10	5	3	3	500.00	-3000.0	1000.0	0.25	0.15	-25.0	-25.0	3700.0	CL8180R	85.4	1	1	4	4	3610.4		cl818wz	85.4	1	1	4	4	3610.4	
18 4	3852	10	5	3	3	500.00	-3000.0	1000.0	0.25	0.25	-25.0	-25.0	3700.0	CL8180R	85.4	1	1	4	4	3610.4		cl818wz	85.4	1	1	4	4	3610.4	
18 4	3978	10	5	3	3	500.00	-3000.0	1000.0	0.25	0.35	-25.0	-25.0	3700.0	CL8180R	85.4	1	1	4	4	3610.4		cl818wz	85.4	1	1	4	4	3610.4	
18 4	268	5	10	3	3	500.00	-5000.0	-5000.0	0.05	-0.25	-25.0	-20.0	3700.0	CL8180R	85.2	1	1	4	4	3568.3		cl818wz	85.2	1	1	4	4	3568.3	
18 4	268	10	5	3	3	500.00	-5000.0	-5000.0	0.05	-0.25	-25.0	-20.0	3700.0	CL8180R	-88.1	0	1	4	4	3568.3		cl818wz	-88.1	0	1	4	4	3568.3	
18 4	394	5	10	3	3	500.00	-5000.0	-5000.0	0.05	-0.35	-25.0	-20.0	3700.0	CL8180R	-99.3	0	0	5	4	3517.3		cl818wz	-99.3	0	0	5	4	3517.3	
18 4	394	10	5	3	3	500.00	-5000.0	-5000.0	0.05	-0.35	-25.0	-20.0	3700.0	CL8180R	-84.2	0	0	4	4	3543.7		cl818wz	-84.2	0	0	4	4	3543.7	
18 4	1541	5	10	3	3	750.00	-5000.0	-3000.0	0.15	-0.05	-25.0	-25.0	3700.0	CL8180R	73.2	1	1	4	4	3385.0		cl818wz	-30.5	0	1	4	4	3341.1	
18 4	1800	10	5	3	3	750.00	-5000.0	-3000.0	0.15	-0.25	-25.0	-20.0	3700.0	CL8180R	-40.3	0	1	4	4	3385.0		cl818wz	-40.3	0	1	4	4	3385.0	
18 4	6336	10	5	3	3	750.00	-5000.0	-3000.0	0.15	-0.25	-25.0	-20.0	7500.0	CL8180R	-40.3	0	1	5	5	7185.0		cl818wz	-40.3	0	1	5	5	7185.0	
18 4	1926	10	5	3	3	750.00	-5000.0	-3000.0	0.15	-0.35	-25.0	-20.0	3700.0	CL8180R	-40.3	0	1	4	4	3385.0		cl818wz	-40.3	0	1	4	4	3385.0	
18 4	6462	10	5	3	3	750.00	-5000.0	-3000.0	0.15	-0.35	-25.0	-20.0	7500.0	CL8180R	-40.3	0	0	5	5	7185.0		cl818wz	-40.3	0	0	5	5	7185.0	
18 4	1520	5	10	3	3	750.00	-5000.0	-5000.0	0.15	-0.05	-25.0	-25.0	3700.0	CL8180R	73.2	1	1	4	4	3385.0		cl818wz	-30.5	0	1	4	4	3341.1	
18 4	----------			3	3	Subtotal =	16 NMACs																								
18 4	1849	5	10		4	750.00	-5000.0	3000.0	0.15	0.25	-25.0	-30.0	3700.0										cl818wz	-98.3	0	1	4	3	2866.3	
18 4	----------				4	Subtotal =	1 NMACs																								

CLS TBL	REIT	Modes #1	Modes #2	R,C	R,C	CPA Alt Separat	AC#1 Rate	AC#2 Rate	AC#1 Acc.	AC#2 Acc.	AC#1 Time	AC#2 Time	AC #1 CPA Alt	Cell 3,3 Data File	Cell 3,3 Achieved Separatn	Cell 3,3 C N	Cell 3,3 I C	Cell 3,3 RAS 1	Cell 3,3 RAS 2	Cell 3,3 Own Alt CPA	Cell 3,3 Own Alt Ach	Cell 4,4 Data File	Cell 4,4 Achieved Separatn	Cell 4,4 C N	Cell 4,4 I C	Cell 4,4 RAS 1	Cell 4,4 RAS 2	Cell 4,4 Own Alt CPA	Cell 4,4 Own Alt Ach
19 4	4322	10	5	3	3	750.00	1000.0	3000.0	-0.05	-0.25	-25.0	-30.0	7500.0	cl919or	-71.3	0	1	5	5	6851.6								
19 4	6275	5	10	3	3	750.00	1000.0	3000.0	-0.15	-0.25	-25.0	-25.0	7500.0	cl919or	12.9	0	1	5	5	6894.1								
19 4	6437	5	10	3	3	750.00	1000.0	3000.0	-0.15	-0.35	-25.0	-25.0	7500.0	cl919or	-34.9	0	1	5	5	6888.0								
19 4	2909	5	10	3	3	750.00	3000.0	5000.0	-0.15	-0.15	-25.0	-20.0	3700.0	cl919or	60.2	0	1	4	3	3329.5								
19 4	3071	5	10	3	3	750.00	3000.0	5000.0	-0.15	-0.25	-25.0	-20.0	3700.0	cl919or	76.8	0	1	4	4	3376.2								
19 4	6959	5	10	3	3	750.00	3000.0	5000.0	-0.15	-0.25	-25.0	-20.0	7500.0	cl919or	-8.5	0	1	5	5	7142.9								
19 4	6959	10	5	3	3	750.00	3000.0	5000.0	-0.15	-0.25	-25.0	-20.0	7500.0	cl919or	66.5	0	1	5	5	7217.9								
19 4	7121	5	10	3	3	750.00	3000.0	5000.0	-0.15	-0.35	-25.0	-20.0	7500.0	cl919or	-5.7	0	1	5	5	7114.8								
19 4	7121	10	5	3	3	750.00	3000.0	5000.0	-0.15	-0.35	-25.0	-20.0	7500.0	cl919or	64.0	0	1	5	5	7184.5								
19 4	996	5	10	3	3	-250.00	3000.0	-5000.0	-0.05	0.25	-25.0	-20.0	3700.0	cl919or	-28.9	1	1	4	4	3787.3								
19 4	996	10	5	3	3	-250.00	3000.0	-5000.0	-0.05	0.25	-25.0	-20.0	3700.0	cl919or	93.5	0	1	4	4	3787.3								
19 4	1158	5	10	3	3	-250.00	3000.0	-5000.0	-0.05	0.35	-25.0	-20.0	3700.0	cl919or	73.3	0	1	4	4	3808.7								
19 4	2940	5	10	3	3	-250.00	3000.0	-5000.0	-0.15	0.25	-25.0	-20.0	3700.0	cl919or	-32.6	1	1	4	4	3786.1								
19 4	2940	10	5	3	3	-250.00	3000.0	-5000.0	-0.15	0.25	-25.0	-20.0	3700.0	cl919or	50.7	0	1	4	4	3786.1								
19 4	3282	10	5	3	3	-250.00	5000.0	-3000.0	-0.15	0.05	-25.0	-25.0	3700.0	cl919or	92.2	0	1	4	4	3889.2								
19 4	3273	5	10	3	3	-250.00	5000.0	-3000.0	-0.15	0.05	-25.0	-30.0	3700.0	cl919or	59.7	0	1	4	4	3872.9								
19 4	3273	10	5	3	3	-250.00	5000.0	-3000.0	-0.15	0.05	-25.0	-30.0	3700.0	cl919or	91.4	0	1	4	4	3872.9								
19 4	3453	10	5	3	3	-250.00	5000.0	-3000.0	-0.15	0.15	-25.0	-20.0	3700.0	cl919or	96.7	0	1	4	4	3872.9								
19 4	3426	5	10	3	3	-250.00	5000.0	-5000.0	-0.15	0.15	-25.0	-20.0	3700.0	cl919or	53.2	0	1	4	4	3862.2								
19 4	3426	10	5	3	3	-250.00	5000.0	-5000.0	-0.15	0.15	-25.0	-20.0	3700.0	cl919or	-19.4	0	1	4	4	3789.6								
19 4	7305	10	5	3	3	-250.00	5000.0	-5000.0	-0.15	0.15	-25.0	-25.0	7500.0	cl919or	28.8	0	1	5	5	7631.2								
19 4	3579	5	10	3	3	-250.00	5000.0	-5000.0	-0.15	0.25	-25.0	-25.0	3700.0	cl919or	29.7	0	1	4	4	3832.1								
19 4	3579	10	5	3	3	-250.00	5000.0	-5000.0	-0.15	0.25	-25.0	-25.0	3700.0	cl919or	81.0	0	1	4	4	3832.1								
19 4	3741	5	10	3	3	-250.00	5000.0	-5000.0	-0.15	0.35	-25.0	-25.0	3700.0	cl919or	70.5	0	1	4	4	3872.9								
19 4	349	5	10	3	3	-500.00	1000.0	-5000.0	-0.05	0.25	-25.0	-20.0	3700.0	cl919or	-12.9	0	1	4	4	3930.9								
19 4	349	10	5	3	3	-500.00	1000.0	-5000.0	-0.05	0.25	-25.0	-20.0	3700.0	cl919or	0.6	0	1	4	4	3861.1								
19 4	4237	5	10	3	3	-500.00	1000.0	-5000.0	-0.05	0.25	-25.0	-20.0	7500.0	cl919or	55.0	0	1	5	5	7757.1								
19 4	4237	10	5	3	3	-500.00	1000.0	-5000.0	-0.05	0.25	-25.0	-20.0	7500.0	cl919or	82.2	0	1	5	5	7686.1								
19 4	511	5	10	3	3	-500.00	1000.0	-5000.0	-0.05	0.35	-25.0	-20.0	3700.0	cl919or	1.7	0	1	4	4	3945.5								
19 4	511	10	5	3	3	-500.00	1000.0	-5000.0	-0.05	0.35	-25.0	-20.0	3700.0	cl919or	74.3	0	1	4	4	3945.5								
19 4	4399	5	10	3	3	-500.00	1000.0	-5000.0	-0.05	0.35	-25.0	-20.0	7500.0	cl919or	76.6	0	1	5	5	7778.7								
19 4	2293	5	10	3	3	-500.00	1000.0	-5000.0	-0.15	0.25	-25.0	-20.0	3700.0	cl919or	55.1	0	1	4	4	3957.1								
19 4	2293	10	5	3	3	-500.00	1000.0	-5000.0	-0.15	0.25	-25.0	-20.0	3700.0	cl919or	35.6	0	1	4	4	3886.1								
19 4	6181	5	10	3	3	-500.00	1000.0	-5000.0	-0.15	0.25	-25.0	-20.0	7500.0	cl919or	55.0	0	1	5	5	7757.1								
19 4	6181	10	5	3	3	-500.00	1000.0	-5000.0	-0.15	0.25	-25.0	-20.0	7500.0	cl919or	35.6	0	1	5	5	7686.1								
19 4	2455	5	10	3	3	-500.00	1000.0	-5000.0	-0.15	0.35	-25.0	-20.0	3700.0	cl919or	1.7	0	1	4	4	3945.5								
19 4	2455	10	5	3	3	-500.00	1000.0	-5000.0	-0.15	0.35	-25.0	-20.0	3700.0	cl919or	85.1	0	1	4	4	3945.5								
19 4	4885	5	10	3	3	-500.00	3000.0	-5000.0	-0.05	0.25	-25.0	-20.0	7500.0	cl919or	76.7	0	1	5	5	7727.3								
19 4	6829	5	10	3	3	-500.00	3000.0	-5000.0	-0.15	0.25	-25.0	-20.0	7500.0	cl919or	80.0	0	1	5	5	7782.1								
19 4	6829	10	5	3	3	-500.00	3000.0	-5000.0	-0.15	0.25	-25.0	-20.0	7500.0	cl919or	28.8	0	1	5	5	7730.9								
19 4	3859	10	5	3	3	-500.00	5000.0	3000.0	-0.15	-0.35	-25.0	-20.0	3700.0	cl919or	-36.6	0	1	4	4	3914.6								
19 4	3544	5	10	3	3	-500.00	5000.0	5000.0	-0.15	-0.15	-25.0	-30.0	3700.0	cl919or	-36.6	0	1	4	4	3914.6								
19 4	7432	5	10	3	3	-500.00	5000.0	5000.0	-0.15	-0.15	-25.0	-30.0	7500.0	cl919or	13.4	0	1	5	5	7714.6								
19 4	3715	10	5	3	3	-500.00	5000.0	5000.0	-0.15	-0.25	-25.0	-25.0	3700.0	cl919or	-36.6	0	1	4	4	3914.6								
19 4	7603	5	10	3	3	-500.00	5000.0	5000.0	-0.15	-0.25	-25.0	-25.0	7500.0	cl919or	1.2	0	1	5	5	7815.0								
19 4	7603	10	5	3	3	-500.00	5000.0	5000.0	-0.15	-0.25	-25.0	-25.0	7500.0	cl919or	51.2	0	1	5	5	7815.0								
19 4	3292	10	5	3	3	-500.00	5000.0	-3000.0	-0.15	0.05	-25.0	-20.0	3700.0	cl919or	80.3	0	1	4	5	4102.8								
19 4	7180	10	5	3	3	-500.00	5000.0	-3000.0	-0.15	0.05	-25.0	-20.0	7500.0	cl919or	80.3	0	1	5	5	7902.8								
19 4	3454	5	10	3	3	-500.00	5000.0	-3000.0	-0.15	0.15	-25.0	-20.0	3700.0	cl919or	9.3	0	1	4	4	3992.8								
19 4	3454	10	5	3	3	-500.00	5000.0	-3000.0	-0.15	0.15	-25.0	-20.0	3700.0	cl919or	-18.9	0	1	4	4	3936.5								
19 4	7342	10	5	3	3	-500.00	5000.0	-3000.0	-0.15	0.15	-25.0	-20.0	7500.0	cl919or	76.3	0	1	5	5	7792.8								
19 4	3445	5	10	3	3	-500.00	5000.0	-3000.0	-0.15	0.15	-25.0	-25.0	3700.0	cl919or	73.5	0	1	4	4	4062.3								
19 4	7333	5	10	3	3	-500.00	5000.0	-3000.0	-0.15	0.15	-25.0	-25.0	7500.0	cl919or	73.5	0	1	5	5	7862.4								
19 4	3616	5	10	3	3	-500.00	5000.0	-3000.0	-0.15	0.25	-25.0	-20.0	3700.0	cl919or	-7.8	0	1	4	4	4006.0								
19 4	3616	10	5	3	3	-500.00	5000.0	-3000.0	-0.15	0.25	-25.0	-20.0	3700.0	cl919or	22.3	0	1	4	4	4006.0								
19 4	7504	5	10	3	3	-500.00	5000.0	-3000.0	-0.15	0.25	-25.0	-20.0	7500.0	cl919or	-7.8	0	1	5	5	7806.0								
19 4	7504	10	5	3	3	-500.00	5000.0	-3000.0	-0.15	0.25	-25.0	-20.0	7500.0	cl919or	22.3	0	1	5	5	7806.0								
19 4	3778	5	10	3	3	-500.00	5000.0	-3000.0	-0.15	0.35	-25.0	-20.0	3700.0	cl919or	65.9	0	1	4	4	4054.7								
19 4	3778	10	5	3	3	-500.00	5000.0	-3000.0	-0.15	0.35	-25.0	-20.0	3700.0	cl919or	26.2	0	1	4	4	4015.0								
19 4	7666	5	10	3	3	-500.00	5000.0	-3000.0	-0.15	0.35	-25.0	-20.0	7500.0	cl919or	65.9	0	1	5	5	7854.7								
19 4	1645	5	10	3	3	-500.00	5000.0	-5000.0	-0.05	0.25	-25.0	-20.0	3700.0	cl919or	-45.8	0	1	4	4	3856.3								
19 4	1645	10	5	3	3	-500.00	5000.0	-5000.0	-0.05	0.25	-25.0	-20.0	3700.0	cl919or	5.8	0	1	4	4	3856.3								
19 4	5533	10	5	3	3	-500.00	5000.0	-5000.0	-0.05	0.25	-25.0	-20.0	7500.0	cl919or	84.0	0	1	4	5	7682.7								
19 4	1636	5	10	3	3	-500.00	5000.0	-5000.0	-0.05	0.25	-25.0	-25.0	3700.0	cl919or	22.3	0	1	4	4	3882.7								

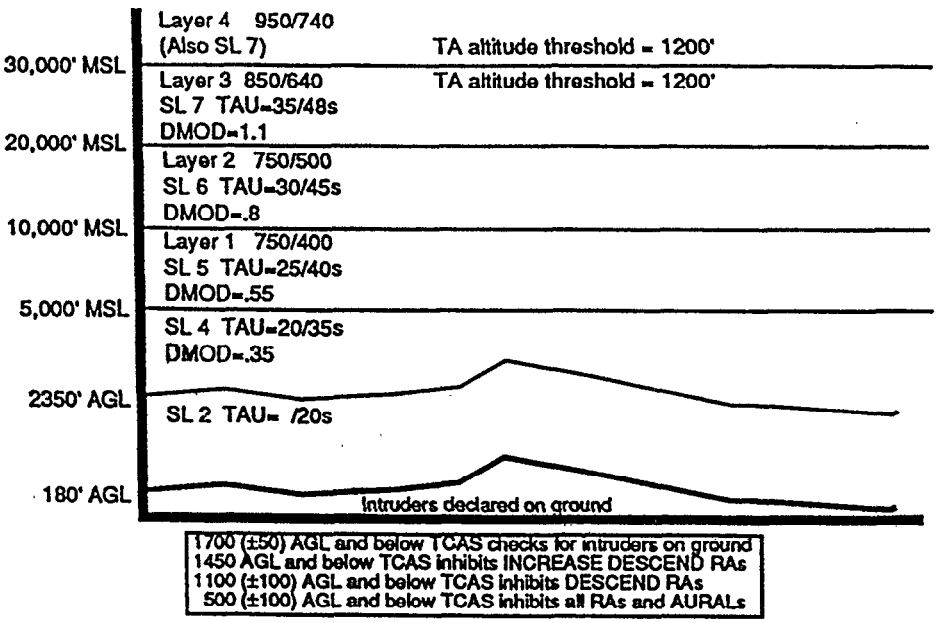
CLS TBL	REIT	Modes #1	Modes #2	R,C	R,C	CPA Alt Separat	AC#1 Rate	AC#2 Rate	AC#1 Acc.	AC#2 Acc.	AC#1 Time	AC#2 Time	AC #1 CPA Alt	Cell 3,3 Data File	Cell 3,3 Achieved Separatn	Cell 3,3 C	Cell 3,3 I	Cell 3,3 RAS 1	Cell 3,3 RAS 2	Cell 3,3 Own Alt CPA Ach	Cell 4,4 Data File	Cell 4,4 Achieved Separatn	Cell 4,4 C	Cell 4,4 I	Cell 4,4 RAS 1	Cell 4,4 RAS 2	Cell 4,4 Own Alt CPA Ach
19 4	5524	5	10	3	3	-500.00	5000.0	-5000.0	-0.05	0.25	-25.0	-25.0	7500.0	cl919or	92.0	0	1	5	5	7710.8							
19 4	1807	10	5	3	3	-500.00	5000.0	-5000.0	-0.05	0.35	-25.0	-20.0	3700.0	cl919or	-28.7	0	1	4	4	3831.7							
19 4	5695	5	10	3	3	-500.00	5000.0	-5000.0	-0.05	0.35	-25.0	-20.0	7500.0	cl919or	22.2	0	1	5	5	7682.7							
19 4	5695	10	5	3	3	-500.00	5000.0	-5000.0	-0.05	0.35	-25.0	-20.0	7500.0	cl919or	63.9	0	1	5	5	7682.7							
19 4	3418	5	10	3	3	-500.00	5000.0	-5000.0	-0.15	0.15	-25.0	-25.0	3700.0	cl919or	-48.0	0	1	4	4	3926.0							
19 4	3418	10	5	3	3	-500.00	5000.0	-5000.0	-0.15	0.15	-25.0	-25.0	3700.0	cl919or	-91.9	1	1	4	4	3882.1							
19 4	3409	5	10	3	3	-500.00	5000.0	-5000.0	-0.15	0.15	-25.0	-30.0	3700.0	cl919or	-78.1	1	1	4	4	3960.8							
19 4	3409	10	5	3	3	-500.00	5000.0	-5000.0	-0.15	0.15	-25.0	-30.0	3700.0	cl919or	-28.1	0	1	4	4	3960.8							
19 4	7297	5	10	3	3	-500.00	5000.0	-5000.0	-0.15	0.15	-25.0	-30.0	7500.0	cl919or	-7.9	0	1	5	5	7806.0							
19 4	7297	10	5	3	3	-500.00	5000.0	-5000.0	-0.15	0.15	-25.0	-30.0	7500.0	cl919or	42.1	0	1	5	5	7806.0							
19 4	3589	5	10	3	3	-500.00	5000.0	-5000.0	-0.15	0.25	-25.0	-20.0	3700.0	cl919or	-78.1	1	1	4	4	3936.5							
19 4	7477	5	10	3	3	-500.00	5000.0	-5000.0	-0.15	0.25	-25.0	-20.0	7500.0	cl919or	-38.0	0	1	5	5	7736.5							
19 4	7477	10	5	3	3	-500.00	5000.0	-5000.0	-0.15	0.25	-25.0	-20.0	7500.0	cl919or	-79.2	0	1	5	5	7695.4							
19 4	3580	5	10	3	3	-500.00	5000.0	-5000.0	-0.15	0.25	-25.0	-25.0	3700.0	cl919or	-78.1	1	1	4	4	3960.8							
19 4	3580	10	5	3	3	-500.00	5000.0	-5000.0	-0.15	0.25	-25.0	-25.0	3700.0	cl919or	-28.1	0	1	4	4	3960.8							
19 4	7468	5	10	3	3	-500.00	5000.0	-5000.0	-0.15	0.25	-25.0	-25.0	7500.0	cl919or	1.1	0	1	5	5	7815.0							
19 4	7468	10	5	3	3	-500.00	5000.0	-5000.0	-0.15	0.25	-25.0	-25.0	7500.0	cl919or	56.8	0	1	5	5	7815.0							
19 4	7639	10	5	3	3	-500.00	5000.0	-5000.0	-0.15	0.35	-25.0	-20.0	7500.0	cl919or	-23.2	0	1	5	5	7714.6							
19 4	3742	5	10	3	3	-500.00	5000.0	-5000.0	-0.15	0.35	-25.0	-25.0	3700.0	cl919or	73.5	0	1	4	4	4062.3							
19 4	7630	5	10	3	3	-500.00	5000.0	-5000.0	-0.15	0.35	-25.0	-25.0	7500.0	cl919or	73.5	0	1	5	5	7862.4							
19 4	4238	5	10	3	3	-750.00	1000.0	-5000.0	-0.05	0.25	-25.0	-20.0	7500.0	cl919or	-76.7	0	1	5	6	7772.0							
19 4	341	5	10	3	3	-750.00	1000.0	-5000.0	-0.05	0.25	-25.0	-25.0	3700.0	cl919or	88.4	0	1	4	5	4073.8							
19 4	512	5	10	3	3	-750.00	1000.0	-5000.0	-0.05	0.35	-25.0	-20.0	3700.0	cl919or	55.1	0	1	4	5	4082.1							
19 4	512	10	5	3	3	-750.00	1000.0	-5000.0	-0.05	0.35	-25.0	-20.0	3700.0	cl919or	-19.9	0	1	4	5	4007.1							
19 4	2294	5	10	3	3	-750.00	1000.0	-5000.0	-0.15	0.25	-25.0	-20.0	3700.0	cl919or	45.2	0	1	4	5	4048.8							
19 4	6182	5	10	3	3	-750.00	1000.0	-5000.0	-0.15	0.25	-25.0	-20.0	7500.0	cl919or	67.6	0	1	5	6	7871.2							
19 4	6164	10	5	3	3	-750.00	1000.0	-5000.0	-0.15	0.25	-25.0	-30.0	7500.0	cl919or	85.1	0	1	5	5	7672.9							
19 4	2969	10	5	3	3	-750.00	3000.0	-3000.0	-0.15	0.25	-25.0	-20.0	3700.0	cl919or	43.4	0	1	4	5	4122.9							
19 4	6857	10	5	3	3	-750.00	3000.0	-3000.0	-0.15	0.25	-25.0	-20.0	7500.0	cl919or	43.4	0	1	5	5	7922.9							
19 4	3131	10	5	3	3	-750.00	3000.0	-3000.0	-0.15	0.35	-25.0	-20.0	3700.0	cl919or	-9.0	0	1	4	4	4070.5							
19 4	7019	10	5	3	3	-750.00	3000.0	-3000.0	-0.15	0.35	-25.0	-20.0	7500.0	cl919or	24.2	0	1	5	5	7870.5							
19 4	827	5	10	3	3	-750.00	3000.0	-5000.0	-0.05	0.15	-25.0	-25.0	3700.0	cl919or	-17.3	0	1	4	5	3973.2							
19 4	827	10	5	3	3	-750.00	3000.0	-5000.0	-0.05	0.15	-25.0	-25.0	3700.0	cl919or	50.8	0	1	4	5	3973.2							
19 4	998	5	10	3	3	-750.00	3000.0	-5000.0	-0.05	0.25	-25.0	-20.0	3700.0	cl919or	38.1	0	1	4	5	4041.7							
19 4	998	10	5	3	3	-750.00	3000.0	-5000.0	-0.05	0.25	-25.0	-20.0	3700.0	cl919or	-43.9	0	1	4	5	3959.7							
19 4	989	5	10	3	3	-750.00	3000.0	-5000.0	-0.05	0.25	-25.0	-25.0	3700.0	cl919or	-78.7	0	1	4	4	3948.3							
19 4	989	10	5	3	3	-750.00	3000.0	-5000.0	-0.05	0.25	-25.0	-25.0	3700.0	cl919or	60.7	0	1	4	4	3952.9							
19 4	4877	5	10	3	3	-750.00	3000.0	-5000.0	-0.05	0.25	-25.0	-25.0	7500.0	cl919or	-69.8	0	1	5	5	7757.3							
19 4	4877	10	5	3	3	-750.00	3000.0	-5000.0	-0.05	0.25	-25.0	-25.0	7500.0	cl919or	60.7	0	1	5	5	7752.9							
19 4	1160	5	10	3	3	-750.00	3000.0	-5000.0	-0.05	0.35	-25.0	-20.0	3700.0	cl919or	-78.7	0	1	4	5	3948.3							
19 4	1151	5	10	3	3	-750.00	3000.0	-5000.0	-0.05	0.35	-25.0	-25.0	3700.0	cl919or	-77.2	0	1	4	4	3949.9							
19 4	1151	10	5	3	3	-750.00	3000.0	-5000.0	-0.05	0.35	-25.0	-25.0	3700.0	cl919or	43.2	0	1	4	4	3945.3							
19 4	5039	5	10	3	3	-750.00	3000.0	-5000.0	-0.05	0.35	-25.0	-25.0	7500.0	cl919or	-12.2	0	1	5	5	7773.2							
19 4	5039	10	5	3	3	-750.00	3000.0	-5000.0	-0.05	0.35	-25.0	-25.0	7500.0	cl919or	71.1	0	1	5	5	7773.2							
19 4	2771	5	10	3	3	-750.00	3000.0	-5000.0	-0.15	0.15	-25.0	-25.0	3700.0	cl919or	69.5	0	1	4	5	4122.9							
19 4	2771	10	5	3	3	-750.00	3000.0	-5000.0	-0.15	0.15	-25.0	-25.0	3700.0	cl919or	-13.9	0	1	4	5	4039.6							
19 4	6659	5	10	3	3	-750.00	3000.0	-5000.0	-0.15	0.15	-25.0	-25.0	7500.0	cl919or	69.4	0	1	5	5	7922.9							
19 4	6659	10	5	3	3	-750.00	3000.0	-5000.0	-0.15	0.15	-25.0	-25.0	7500.0	cl919or	-13.9	0	1	5	5	7839.6							
19 4	6821	5	10	3	3	-750.00	3000.0	-5000.0	-0.15	0.25	-25.0	-25.0	7500.0	cl919or	1.7	0	1	5	5	7881.2							
19 4	6821	10	5	3	3	-750.00	3000.0	-5000.0	-0.15	0.25	-25.0	-25.0	7500.0	cl919or	34.9	0	1	5	5	7881.2							
19 4	3338	5	10	3	3	-750.00	5000.0	1000.0	-0.15	-0.05	-25.0	-25.0	3700.0	cl919or	100.0	0	1	4	4	4159.5							
19 4	3833	5	10	3	3	-750.00	5000.0	1000.0	-0.15	-0.35	-25.0	-20.0	3700.0	cl919or	100.0	0	1	4	4	4159.5							
19 4	3482	10	5	3	3	-750.00	5000.0	-1000.0	-0.15	0.15	-25.0	-20.0	3700.0	cl919or	71.9	0	1	4	4	4131.5							
19 4	3644	10	5	3	3	-750.00	5000.0	-1000.0	-0.15	0.25	-25.0	-20.0	3700.0	cl919or	71.9	0	1	4	4	4131.5							
19 4	3806	10	5	3	3	-750.00	5000.0	-1000.0	-0.15	0.35	-25.0	-20.0	3700.0	cl919or	76.8	0	1	4	4	4136.3							
19 4	3293	10	5	3	3	-750.00	5000.0	-3000.0	-0.15	0.05	-25.0	-20.0	3700.0	cl919or	-6.1	0	1	4	5	4159.5							
19 4	3284	5	10	3	3	-750.00	5000.0	-3000.0	-0.15	0.05	-25.0	-25.0	3700.0	cl919or	62.4	0	1	4	5	4227.6							
19 4	3284	10	5	3	3	-750.00	5000.0	-3000.0	-0.15	0.05	-25.0	-25.0	3700.0	cl919or	-5.7	0	1	4	5	4159.5							
19 4	7172	5	10	3	3	-750.00	5000.0	-3000.0	-0.15	0.05	-25.0	-25.0	7500.0	cl919or	62.4	0	1	5	5	8027.6							
19 4	7172	10	5	3	3	-750.00	5000.0	-3000.0	-0.15	0.05	-25.0	-25.0	7500.0	cl919or	-5.7	0	1	5	5	7959.5							
19 4	3275	10	5	3	3	-750.00	5000.0	-3000.0	-0.15	0.05	-25.0	-30.0	3700.0	cl919or	97.4	0	1	4	5	4159.5							
19 4	7163	10	5	3	3	-750.00	5000.0	-3000.0	-0.15	0.05	-25.0	-30.0	7500.0	cl919or	97.4	0	1	5	5	7959.5							
19 4	3455	10	5	3	3	-750.00	5000.0	-3000.0	-0.15	0.15	-25.0	-20.0	3700.0	cl919or	91.1	0	1	4	5	4102.8							
19 4	7343	10	5	3	3	-750.00	5000.0	-3000.0	-0.15	0.15	-25.0	-20.0	7500.0	cl919or	98.6	0	1	5	5	7902.8							

CLS TBL	REIT	Modes #1	Modes #2	R,C	R,C	CPA Alt Separat	AC#1 Rate	AC#2 Rate	AC#1 Acc.	AC#2 Acc.	AC#1 Time	AC#2 Time	AC #1 CPA Alt	Cell 3,3 Data File	Cell 3,3 Achieved Separatn	Cell 3,3 N	Cell 3,3 C	Cell 3,3 I	Cell 3,3 RAS 1	Cell 3,3 RAS 2	Cell 3,3 Own Alt CPA	Cell 3,3 Alt Ach	Cell 4,4 Data File	Cell 4,4 Achieved Separatn	Cell 4,4 N	Cell 4,4 C	Cell 4,4 I	Cell 4,4 RAS 1	Cell 4,4 RAS 2	Cell 4,4 Own Alt CPA	Cell 4,4 Alt Ach
19 4	3446	5	10	3	3	-750.00	5000.0	-3000.0	-0.15	0.15	-25.0	-25.0	3700.0	cl919or	75.0	0	1	4	4		4159.5									
19 4	3446	10	5	3	3	-750.00	5000.0	-3000.0	-0.15	0.15	-25.0	-25.0	3700.0	cl919or	-86.1	1	1	4	4		4102.8									
19 4	7334	10	5	3	3	-750.00	5000.0	-3000.0	-0.15	0.15	-25.0	-25.0	7500.0	cl919or	75.7	0	1	5	5		7902.8									
19 4	3617	5	10	3	3	-750.00	5000.0	-3000.0	-0.15	0.25	-25.0	-20.0	3700.0	cl919or	38.3	0	1	4	5		4136.3									
19 4	3617	10	5	3	3	-750.00	5000.0	-3000.0	-0.15	0.25	-25.0	-20.0	3700.0	cl919or	-91.8	1	1	4	4		4058.8									
19 4	7667	5	10	3	3	-750.00	5000.0	-3000.0	-0.15	0.35	-25.0	-20.0	7500.0	cl919or	27.8	0	1	5	5		7896.5									
19 4	7667	10	5	3	3	-750.00	5000.0	-3000.0	-0.15	0.35	-25.0	-20.0	7500.0	cl919or	69.4	0	1	5	5		7896.5									
19 4	1475	10	5	3	3	-750.00	5000.0	-5000.0	-0.05	0.15	-25.0	-25.0	3700.0	cl919or	84.1	0	1	4	5		4006.5									
19 4	1637	5	10	3	3	-750.00	5000.0	-5000.0	-0.05	0.25	-25.0	-25.0	3700.0	cl919or	-86.3	0	1	4	4		3940.8									
19 4	1637	10	5	3	3	-750.00	5000.0	-5000.0	-0.05	0.25	-25.0	-25.0	3700.0	cl919or	48.5	0	1	4	4		3940.8									
19 4	5525	5	10	3	3	-750.00	5000.0	-5000.0	-0.05	0.25	-25.0	-25.0	7500.0	cl919or	-86.3	0	1	5	5		7740.8									
19 4	5525	10	5	3	3	-750.00	5000.0	-5000.0	-0.05	0.25	-25.0	-25.0	7500.0	cl919or	48.5	0	1	5	5		7740.8									
19 4	1808	5	10	3	3	-750.00	5000.0	-5000.0	-0.05	0.35	-25.0	-20.0	3700.0	cl919or	-20.6	0	1	4	5		4006.5									
19 4	1799	5	10	3	3	-750.00	5000.0	-5000.0	-0.05	0.35	-25.0	-25.0	3700.0	cl919or	62.7	0	1	4	4		4006.5									
19 4	5687	5	10	3	3	-750.00	5000.0	-5000.0	-0.05	0.35	-25.0	-25.0	7500.0	cl919or	62.7	0	1	5	5		7806.5									
19 4	3257	10	5	3	3	-750.00	5000.0	-5000.0	-0.15	0.05	-25.0	-25.0	3700.0	cl919or	39.2	0	1	4	5		4182.8									
19 4	3248	5	10	3	3	-750.00	5000.0	-5000.0	-0.15	0.05	-25.0	-30.0	3700.0	cl919or	36.4	0	1	4	5		4182.8									
19 4	3248	10	5	3	3	-750.00	5000.0	-5000.0	-0.15	0.05	-25.0	-30.0	3700.0	cl919or	13.1	0	1	4	5		4159.5									
19 4	3419	5	10	3	3	-750.00	5000.0	-5000.0	-0.15	0.15	-25.0	-25.0	3700.0	cl919or	55.6	0	1	4	5		4102.8									
19 4	3419	10	5	3	3	-750.00	5000.0	-5000.0	-0.15	0.15	-25.0	-25.0	3700.0	cl919or	84.3	0	1	4	5		4102.8									
19 4	7307	5	10	3	3	-750.00	5000.0	-5000.0	-0.15	0.15	-25.0	-25.0	7500.0	cl919or	55.6	0	1	5	5		7902.8									
19 4	7307	10	5	3	3	-750.00	5000.0	-5000.0	-0.15	0.15	-25.0	-25.0	7500.0	cl919or	84.2	0	1	5	5		7902.8									
19 4	3410	10	5	3	3	-750.00	5000.0	-5000.0	-0.15	0.15	-25.0	-30.0	3700.0	cl919or	-89.0	1	1	4	4		4062.3									
19 4	7298	5	10	3	3	-750.00	5000.0	-5000.0	-0.15	0.15	-25.0	-30.0	7500.0	cl919or	-48.5	0	1	5	5		7862.4									
19 4	7298	10	5	3	3	-750.00	5000.0	-5000.0	-0.15	0.15	-25.0	-30.0	7500.0	cl919or	35.2	0	1	5	5		7862.4									
19 4	3590	10	5	3	3	-750.00	5000.0	-5000.0	-0.15	0.25	-25.0	-20.0	3700.0	cl919or	-68.3	0	1	4	5		3987.6									
19 4	7478	10	5	3	3	-750.00	5000.0	-5000.0	-0.15	0.25	-25.0	-20.0	7500.0	cl919or	-68.3	0	1	5	5		7787.6									
19 4	3581	10	5	3	3	-750.00	5000.0	-5000.0	-0.15	0.25	-25.0	-25.0	3700.0	cl919or	-55.0	0	1	4	4		4058.8									
19 4	7469	5	10	3	3	-750.00	5000.0	-5000.0	-0.15	0.25	-25.0	-25.0	7500.0	cl919or	-48.4	0	1	5	5		7862.4									
19 4	7469	10	5	3	3	-750.00	5000.0	-5000.0	-0.15	0.25	-25.0	-25.0	7500.0	cl919or	35.2	0	1	5	5		7862.4									
19 4	7631	5	10	3	3	-750.00	5000.0	-5000.0	-0.15	0.35	-25.0	-25.0	7500.0	cl919or	34.0	0	1	5	5		7902.8									
19 4	7631	10	5	3	3	-750.00	5000.0	-5000.0	-0.15	0.35	-25.0	-25.0	7500.0	cl919or	75.7	0	1	5	5		7902.8									
19 4	640	5	10	3	3	1000.00	1000.0	5000.0	-0.05	-0.35	-25.0	-20.0	3700.0	cl919or	-44.3	0	1	4	3		3244.6									
19 4	640	10	5	3	3	1000.00	1000.0	5000.0	-0.05	-0.35	-25.0	-20.0	3700.0	cl919or	-21.0	0	1	4	3		3267.9									
19 4	1117	10	5	3	3	1000.00	3000.0	5000.0	-0.05	-0.25	-25.0	-25.0	3700.0	cl919or	-69.2	0	1	4	4		3188.5									
19 4	1774	10	5	3	3	1000.00	5000.0	5000.0	-0.05	-0.25	-25.0	-20.0	3700.0	cl919or	-7.6	0	1	4	3		3184.9									
19 4	1936	10	5	3	3	1000.00	5000.0	5000.0	-0.05	-0.35	-25.0	-20.0	3700.0	cl919or	52.4	0	1	4	3		3222.4									
19 4	2286	5	10	3	3	-1000.00	1000.0	-5000.0	-0.15	0.25	-25.0	-25.0	3700.0	cl919or	-39.0	0	1	4	5		4165.5									
19 4	2286	10	5	3	3	-1000.00	1000.0	-5000.0	-0.15	0.25	-25.0	-25.0	3700.0	cl919or	8.5	0	1	4	5		4098.8									
19 4	6174	5	10	3	3	-1000.00	1000.0	-5000.0	-0.15	0.25	-25.0	-25.0	7500.0	cl919or	-39.0	0	1	5	5		7965.5									
19 4	6174	10	5	3	3	-1000.00	1000.0	-5000.0	-0.15	0.25	-25.0	-25.0	7500.0	cl919or	8.5	0	1	5	5		7898.8									
19 4	6345	5	10	3	3	-1000.00	1000.0	-5000.0	-0.15	0.35	-25.0	-20.0	7500.0	cl919or	31.5	0	1	5	6		8108.6									
19 4	6345	10	5	3	3	-1000.00	1000.0	-5000.0	-0.15	0.35	-25.0	-20.0	7500.0	cl919or	44.1	0	1	5	6		8121.2									
19 4	2448	5	10	3	3	-1000.00	1000.0	-5000.0	-0.15	0.35	-25.0	-25.0	3700.0	cl919or	-17.5	0	1	4	5		4187.0									
19 4	2448	10	5	3	3	-1000.00	1000.0	-5000.0	-0.15	0.35	-25.0	-25.0	3700.0	cl919or	76.6	0	1	4	5		4187.0									
19 4	6336	5	10	3	3	-1000.00	1000.0	-5000.0	-0.15	0.35	-25.0	-25.0	7500.0	cl919or	-17.5	0	1	5	5		7987.0									
19 4	6336	10	5	3	3	-1000.00	1000.0	-5000.0	-0.15	0.35	-25.0	-25.0	7500.0	cl919or	76.6	0	1	5	5		7987.0									
19 4	2970	10	5	3	3	-1000.00	3000.0	-3000.0	-0.15	0.25	-25.0	-20.0	3700.0	cl919or	-8.6	0	1	4	5		4206.2									
19 4	6858	10	5	3	3	-1000.00	3000.0	-3000.0	-0.15	0.25	-25.0	-20.0	7500.0	cl919or	-8.6	0	1	5	5		8006.2									
19 4	2961	5	10	3	3	-1000.00	3000.0	-3000.0	-0.15	0.25	-25.0	-25.0	3700.0	cl919or	83.6	0	1	4	5		4235.7									
19 4	6849	5	10	3	3	-1000.00	3000.0	-3000.0	-0.15	0.25	-25.0	-25.0	7500.0	cl919or	83.6	0	1	5	5		8035.7									
19 4	3132	10	5	3	3	-1000.00	3000.0	-3000.0	-0.15	0.35	-25.0	-20.0	3700.0	cl919or	-16.7	0	1	4	5		4206.2									
19 4	7020	10	5	3	3	-1000.00	3000.0	-3000.0	-0.15	0.35	-25.0	-20.0	7500.0	cl919or	-16.7	0	1	5	5		8006.2									
19 4	3123	5	10	3	3	-1000.00	3000.0	-3000.0	-0.15	0.35	-25.0	-25.0	3700.0	cl919or	91.6	0	1	4	5		4243.6									
19 4	7011	5	10	3	3	-1000.00	3000.0	-3000.0	-0.15	0.35	-25.0	-25.0	7500.0	cl919or	91.6	0	1	5	5		8043.6									
19 4	2772	5	10	3	3	-1000.00	3000.0	-5000.0	-0.15	0.15	-25.0	-25.0	3700.0	cl919or	-28.8	0	1	4	5		4206.2									
19 4	6660	5	10	3	3	-1000.00	3000.0	-5000.0	-0.15	0.15	-25.0	-25.0	7500.0	cl919or	-28.8	0	1	5	5		8006.2									
19 4	2763	5	10	3	3	-1000.00	3000.0	-5000.0	-0.15	0.15	-25.0	-30.0	3700.0	cl919or	60.9	0	1	4	5		4190.2									
19 4	2763	10	5	3	3	-1000.00	3000.0	-5000.0	-0.15	0.15	-25.0	-30.0	3700.0	cl919or	-10.0	0	1	4	5		4119.3									
19 4	6651	5	10	3	3	-1000.00	3000.0	-5000.0	-0.15	0.15	-25.0	-30.0	7500.0	cl919or	60.8	0	1	5	5		7990.2									
19 4	6651	10	5	3	3	-1000.00	3000.0	-5000.0	-0.15	0.15	-25.0	-30.0	7500.0	cl919or	-10.0	0	1	5	5		7919.3									
19 4	3456	5	10	3	3	-1000.00	5000.0	-3000.0	-0.15	0.15	-25.0	-20.0	3700.0	cl919or	-26.5	0	1	4	5		4227.6									
19 4	7344	5	10	3	3	-1000.00	5000.0	-3000.0	-0.15	0.15	-25.0	-20.0	7500.0	cl919or	-26.5	0	1	5	5		8027.6									
19 4	3447	5	10	3	3	-1000.00	5000.0	-3000.0	-0.15	0.15	-25.0	-25.0	3700.0	cl919or	-70.5	0	1	4	5		4164.9									

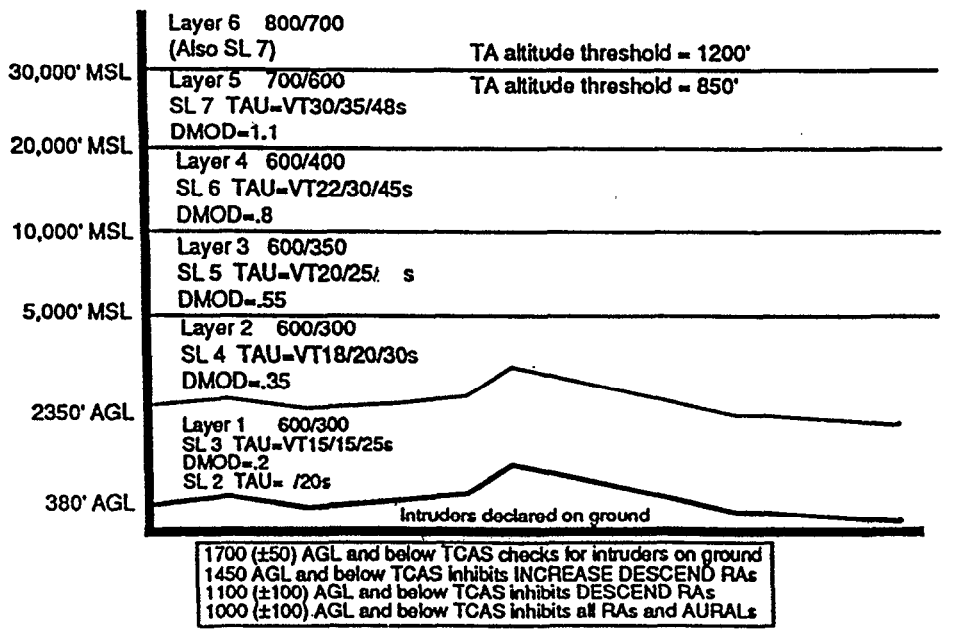
CLS TBL	REIT	Modes #1	Modes #2	R,C	R,C	CPA Alt Separat	AC#1 Rate	AC#2 Rate	AC#1 Acc.	AC#2 Acc.	AC#1 Time	AC#2 Time	AC #1 CPA Alt	Cell 3,3 Data File	Cell 3,3 Achieved Separatn	N	C	I	RAS 1	RAS 2	Cell 3,3 Own Alt CPA	Cell 4,4 Data File	Cell 4,4 Achieved Separatn	N	C	I	RAS 1	RAS 2	Cell 4,4 Own Alt CPA
19 4	3447	10	5	3	3	-1000.00	5000.0	-3000.0	-0.15	0.15	-25.0	-25.0	3700.0	cl919or	-28.8	0	1	4	5	4164.9								
19 4	7335	5	10	3	3	-1000.00	5000.0	-3000.0	-0.15	0.15	-25.0	-25.0	7500.0	cl919or	-70.5	0	1	5	5	7964.9								
19 4	7335	10	5	3	3	-1000.00	5000.0	-3000.0	-0.15	0.15	-25.0	-25.0	7500.0	cl919or	-28.8	0	1	5	5	7964.9								
19 4	3438	5	10	3	3	-1000.00	5000.0	-3000.0	-0.15	0.15	-25.0	-30.0	3700.0	cl919or	75.5	0	1	4	5	4227.5								
19 4	7326	5	10	3	3	-1000.00	5000.0	-3000.0	-0.15	0.15	-25.0	-30.0	7500.0	cl919or	75.5	0	1	5	5	8027.5								
19 4	3618	5	10	3	3	-1000.00	5000.0	-3000.0	-0.15	0.25	-25.0	-20.0	3700.0	cl919or	-94.3	1	1	4	5	4182.8								
19 4	7506	5	10	3	3	-1000.00	5000.0	-3000.0	-0.15	0.25	-25.0	-20.0	7500.0	cl919or	-94.3	1	1	5	5	7982.8								
19 4	3780	5	10	3	3	-1000.00	5000.0	-3000.0	-0.15	0.35	-25.0	-20.0	3700.0	cl919or	-94.3	1	1	4	5	4182.8								
19 4	7668	5	10	3	3	-1000.00	5000.0	-3000.0	-0.15	0.35	-25.0	-20.0	7500.0	cl919or	-94.3	1	1	5	5	7982.8								
19 4	1638	10	5	3	3	-1000.00	5000.0	-5000.0	-0.05	0.25	-25.0	-25.0	3700.0	cl919or	-48.6	0	1	3	5	4041.7								
19 4	3429	10	5	3	3	-1000.00	5000.0	-5000.0	-0.15	0.15	-25.0	-20.0	3700.0	cl919or	59.8	0	1	4	5	4102.8								
19 4	3411	5	10	3	3	-1000.00	5000.0	-5000.0	-0.15	0.15	-25.0	-30.0	3700.0	cl919or	96.9	0	1	4	5	4327.8								
19 4	3411	10	5	3	3	-1000.00	5000.0	-5000.0	-0.15	0.15	-25.0	-30.0	3700.0	cl919or	1.7	0	1	4	5	4232.6								
19 4	7299	5	10	3	3	-1000.00	5000.0	-5000.0	-0.15	0.15	-25.0	-30.0	7500.0	cl919or	96.9	0	1	5	5	8127.8								
19 4	7299	10	5	3	3	-1000.00	5000.0	-5000.0	-0.15	0.15	-25.0	-30.0	7500.0	cl919or	1.7	0	1	5	5	8032.6								
19 4	3573	5	10	3	3	-1000.00	5000.0	-5000.0	-0.15	0.25	-25.0	-30.0	3700.0	cl919or	-11.0	0	1	4	5	4182.8								
19 4	3573	10	5	3	3	-1000.00	5000.0	-5000.0	-0.15	0.25	-25.0	-30.0	3700.0	cl919or	30.7	0	1	4	5	4182.8								
19 4	7461	5	10	3	3	-1000.00	5000.0	-5000.0	-0.15	0.25	-25.0	-30.0	7500.0	cl919or	-11.0	0	1	5	5	7982.8								
19 4	7461	10	5	3	3	-1000.00	5000.0	-5000.0	-0.15	0.25	-25.0	-30.0	7500.0	cl919or	30.7	0	1	5	5	7982.8								
19 4	3744	10	5	3	3	-1000.00	5000.0	-5000.0	-0.15	0.35	-25.0	-25.0	3700.0	cl919or	-99.1	1	1	4	5	4136.3								
19 4	7632	10	5	3	3	-1000.00	5000.0	-5000.0	-0.15	0.35	-25.0	-25.0	7500.0	cl919or	-99.1	1	1	5	5	7936.3								
19 4	----------			3	3	Subtotal =	213	NMACs																				
19 4	2883	10	5	3	3	4 4 500.00	3000.0	3000.0	-0.15	-0.15	-25.0	-20.0	3700.0	cl919or	-28.8	0	1	4	4	3469.1	cl919wz	-28.8	0	1	4	4	3469.1
19 4	6771	5	10	3	3	4 4 500.00	3000.0	3000.0	-0.15	-0.15	-25.0	-20.0	7500.0	cl919or	-81.7	0	1	5	5	7263.9	cl919wz	-81.7	0	1	5	5	7263.9
19 4	6771	10	5	3	3	4 4 500.00	3000.0	3000.0	-0.15	-0.15	-25.0	-20.0	7500.0	cl919or	-31.7	0	1	5	5	7313.9	cl919wz	-31.7	0	1	5	5	7313.9
19 4	3711	5	10	3	3	4 4 500.00	5000.0	5000.0	-0.15	-0.25	-25.0	-25.0	3700.0	cl919or	-83.0	0	1	4	4	3289.9	cl919wz	-83.0	0	1	4	4	3289.9
19 4	997	5	10	3	3	4 4 -500.00	3000.0	-5000.0	-0.05	0.25	-25.0	-20.0	3700.0	cl919or	-74.7	0	1	4	4	3869.1	cl919wz	-16.5	0	1	4	4	3886.7
19 4	997	10	5	3	3	4 4 -500.00	3000.0	-5000.0	-0.05	0.25	-25.0	-20.0	3700.0	cl919or	-18.9	0	1	4	4	3831.7	cl919wz	-34.2	0	1	4	4	3869.1
19 4	4885	10	5	3	3	4 4 -500.00	3000.0	-5000.0	-0.05	0.25	-25.0	-20.0	7500.0	cl919or	57.7	0	1	5	5	7708.3	cl919wz	-34.2	0	1	5	5	7669.1
19 4	988	5	10	3	3	4 4 -500.00	3000.0	-5000.0	-0.05	0.25	-25.0	-25.0	3700.0	cl919or	66.9	0	1	4	4	3927.3	cl919wz	6.3	0	1	4	4	3908.3
19 4	1159	5	10	3	3	4 4 -500.00	3000.0	-5000.0	-0.05	0.35	-25.0	-20.0	3700.0	cl919or	-60.5	0	1	4	4	3883.2	cl919wz	57.7	0	1	4	4	3915.4
19 4	1159	10	5	3	3	4 4 -500.00	3000.0	-5000.0	-0.05	0.35	-25.0	-20.0	3700.0	cl919or	22.8	0	1	4	4	3883.2	cl919wz	41.8	0	1	4	4	3899.6
19 4	5047	5	10	3	3	4 4 -500.00	3000.0	-5000.0	-0.05	0.35	-25.0	-20.0	7500.0	cl919or	-2.5	0	1	5	5	7699.6	cl919wz	57.6	0	1	5	5	7715.4
19 4	5047	10	5	3	3	4 4 -500.00	3000.0	-5000.0	-0.05	0.35	-25.0	-20.0	7500.0	cl919or	39.2	0	1	5	5	7699.6	cl919wz	41.8	0	1	5	5	7699.6
19 4	3697	10	5	3	3	4 4 -500.00	5000.0	3000.0	-0.15	-0.25	-25.0	-20.0	3700.0	cl919or	-61.6	0	1	4	4	3914.6	cl919wz	-61.6	0	1	4	4	3914.6
19 4	3544	10	5	3	3	4 4 -500.00	5000.0	5000.0	-0.15	-0.15	-25.0	-30.0	3700.0	cl919or	34.4	0	1	4	4	3914.6	cl919wz	-61.6	0	1	4	4	3914.6
19 4	7432	10	5	3	3	4 4 -500.00	5000.0	5000.0	-0.15	-0.15	-25.0	-30.0	7500.0	cl919or	59.3	0	1	5	5	7714.6	cl919wz	-61.6	0	1	5	5	7714.6
19 4	3427	10	5	3	3	4 4 -500.00	5000.0	-5000.0	-0.15	0.15	-25.0	-20.0	3700.0	cl919or	10.3	0	1	4	4	3914.6	cl919wz	48.6	0	1	4	4	3914.6
19 4	2285	5	10	3	3	4 4 -750.00	1000.0	-5000.0	-0.15	0.25	-25.0	-25.0	3700.0	cl919or	88.4	0	1	4	5	4073.8	cl919wz	63.1	0	1	4	5	4073.8
19 4	6992	5	10	3	3	4 4 -750.00	3000.0	-5000.0	-0.15	0.35	-25.0	-20.0	7500.0	cl919or	-54.6	0	1	5	5	7855.9	cl919wz	-76.4	0	1	5	5	7736.1
19 4	4969	10	5	3	3	4 4 1000.00	3000.0	3000.0	-0.05	-0.25	-25.0	-30.0	7500.0	cl919or	-40.0	0	1	5	5	6622.2	cl919wz	-40.0	0	1	5	5	6622.2
19 4	5131	10	5	3	3	4 4 1000.00	3000.0	3000.0	-0.05	-0.35	-25.0	-30.0	7500.0	cl919or	-40.0	0	1	5	5	6622.2	cl919wz	-40.0	0	1	5	5	6622.2
19 4	----------			3	3	4 4 Subtotal =	20	NMACs																				
19 4	291	5	10			4 4 500.00	1000.0	3000.0	-0.05	-0.15	-25.0	-20.0	3700.0								cl919wz	-80.1	0	1	4	4	3417.9
19 4	291	10	5			4 4 500.00	1000.0	3000.0	-0.05	-0.15	-25.0	-20.0	3700.0								cl919wz	-28.8	0	1	4	4	3469.1
19 4	988	10	5			4 4 -500.00	3000.0	-5000.0	-0.05	0.25	-25.0	-25.0	3700.0								cl919wz	89.6	0	1	4	4	3908.3
19 4	4876	5	10			4 4 -500.00	3000.0	-5000.0	-0.05	0.25	-25.0	-25.0	7500.0								cl919wz	6.2	0	1	5	5	7708.3
19 4	4876	10	5			4 4 -500.00	3000.0	-5000.0	-0.05	0.25	-25.0	-25.0	7500.0								cl919wz	89.6	0	1	5	5	7708.3
19 4	3274	5	10			4 4 -500.00	5000.0	-3000.0	-0.15	0.05	-25.0	-30.0	3700.0								cl919wz	41.5	0	1	4	4	4058.8
19 4	3274	10	5			4 4 -500.00	5000.0	-3000.0	-0.15	0.05	-25.0	-30.0	3700.0								cl919wz	-22.5	0	1	4	4	3994.9
19 4	7162	10	5			4 4 -500.00	5000.0	-3000.0	-0.15	0.05	-25.0	-30.0	7500.0								cl919wz	88.5	0	1	5	5	7794.9
19 4	3427	5	10			4 4 -500.00	5000.0	-5000.0	-0.15	0.15	-25.0	-20.0	3700.0								cl919wz	94.8	0	1	4	4	3960.8
19 4	2807	5	10			4 4 -750.00	3000.0	-3000.0	-0.15	0.15	-25.0	-20.0	3700.0								cl919wz	21.5	0	1	4	5	4081.2
19 4	2807	10	5			4 4 -750.00	3000.0	-3000.0	-0.15	0.15	-25.0	-20.0	3700.0								cl919wz	82.0	0	1	4	5	4081.2
19 4	6695	5	10			4 4 -750.00	3000.0	-3000.0	-0.15	0.15	-25.0	-20.0	7500.0								cl919wz	21.5	0	1	5	5	7881.2
19 4	6695	10	5			4 4 -750.00	3000.0	-3000.0	-0.15	0.15	-25.0	-20.0	7500.0								cl919wz	82.0	0	1	5	5	7881.2
19 4	2933	5	10			4 4 -750.00	3000.0	-5000.0	-0.15	0.25	-25.0	-25.0	3700.0								cl919wz	63.1	0	1	4	5	4073.8
19 4	3104	5	10			4 4 -750.00	3000.0	-5000.0	-0.15	0.35	-25.0	-20.0	3700.0								cl919wz	-22.0	0	1	4	5	3990.5
19 4	3104	10	5			4 4 -750.00	3000.0	-5000.0	-0.15	0.35	-25.0	-20.0	3700.0								cl919wz	92.6	0	1	4	5	4007.1
19 4	----------					4 4 Subtotal =	16	NMACs																				

APPENDIX H

CAS THRESHOLDS, LAYERS, AND SENSITIVITY LEVELS[1]



Thresholds for Logic Versions 6.02 and 6.02



Thresholds for Logic Versions 6.04 and 6.04a

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1 Bradley, Suzanne, "Simulation Test and Evaluation of TCAS II Logic Version 6.04." The MITRE Corporation, McLean, VA, MTR 92W0000103, July 1992.

APPENDIX I

PERFORMANCE STATISTICS OUTPUTS

MITRE encounter classes: 0,10 Date processed: 6/23/94
Based on FAA Technical Center data of: 6/20/94
Total TCAS-TCAS runs for both points of view : 3012
Total incorrectly labelled RAs : 12

Class 0 TCAS - TCAS Both Responding

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
RAs/ runs (%)	100.00	100.00	100.00	100.00	100.00	100.00
Crossing RAs/ RAs (%)	0.00	0.00	0.00	0.00	0.00	0.00
Crossing RAs/ runs (%)	0.00	0.00	0.00	0.00	0.00	0.00
Cr. RA NMACs/ cross RAs (%)	0.00	0.00	0.00	0.00	0.00	0.00
Cr. RA NMACs/ NMACs* (%)	0.00	0.00	0.00	0.00	0.00	0.00
NMACs*/ runs (%)	0.00	0.00	0.00	0.00	0.00	0.00
Avg warning time** (sec)	25.75	22.75	22.75	25.75	25.75	22.75
Avg alt sep at CPA* (ft)	734.39	662.25	662.25	710.46	710.46	662.25

Class 10 TCAS - TCAS Both Responding

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
RAs/ runs (%)	90.84	63.64	63.64	75.91	75.91	63.64
Crossing RAs/ RAs (%)	0.00	0.00	0.00	0.00	0.00	0.00
Crossing RAs/ runs (%)	0.00	0.00	0.00	0.00	0.00	0.00
Cr. RA NMACs/ cross RAs (%)	0.00	0.00	0.00	0.00	0.00	0.00
Cr. RA NMACs/ NMACs* (%)	0.00	0.00	0.00	0.00	0.00	0.00
NMACs*/ runs (%)	0.00	0.00	0.00	0.00	0.00	0.00
Avg warning time** (sec)	22.50	20.76	20.76	22.87	22.87	20.76
Avg alt sep at CPA* (ft)	747.13	672.11	672.11	720.53	720.53	672.11

* NMACs and average alt. sep. at CPA are based on simulation truth
** Average warning time includes negative times (ie, RA occurs after CPA)

MITRE encounter classes: 1,11 Date processed: 6/23/94
Based on FAA Technical Center data of: 6/20/94
Total TCAS-TCAS runs for both points of view : 9044
Total incorrectly labelled RAs : 28

Class 1 TCAS - TCAS Both Responding

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
RAs/ runs (%)	100.00	96.28	96.28	96.28	96.41	96.28
Crossing RAs/ RAs (%)	5.85	12.43	9.25	13.40	9.52	10.84
Crossing RAs/ runs (%)	5.85	11.97	8.91	12.90	9.18	10.44
Cr. RA NMACs/ cross RAs (%)	0.00	0.00	0.00	0.00	0.00	0.00
Cr. RA NMACs/ NMACs* (%)	0.00	0.00	0.00	0.00	0.00	0.00
NMACs*/ runs (%)	0.00	0.00	0.00	0.00	0.00	0.00
Avg warning time** (sec)	22.62	16.70	17.14	20.78	21.20	16.88
Avg alt sep at CPA* (ft)	929.10	758.81	763.20	845.15	845.88	760.82

Class 11 TCAS - TCAS Both Responding

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
RAs/ runs (%)	100.00	59.38	59.38	74.90	74.90	59.38
Crossing RAs/ RAs (%)	0.00	0.00	0.00	0.00	0.00	0.00
Crossing RAs/ runs (%)	0.00	0.00	0.00	0.00	0.00	0.00
Cr. RA NMACs/ cross RAs (%)	0.00	0.00	0.00	0.00	0.00	0.00
Cr. RA NMACs/ NMACs* (%)	0.00	0.00	0.00	0.00	0.00	0.00
NMACs*/ runs (%)	0.00	0.00	0.00	0.00	0.00	0.00
Avg warning time** (sec)	14.47	10.76	10.76	13.95	13.95	10.76
Avg alt sep at CPA* (ft)	737.53	666.19	666.19	707.56	707.56	666.19

* NMACs and average alt. sep. at CPA are based on simulation truth
** Average warning time includes negative times (ie, RA occurs after CPA)

MITRE encounter classes: 2,12 Date processed: 6/23/94
Based on FAA Technical Center data of: 6/20/94
Total TCAS-TCAS runs for both points of view : 108424
Total incorrectly labelled RAs : 440

Class 2 TCAS - TCAS Both Responding

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
RAs/ runs (%)	100.00	99.45	99.45	98.90	98.90	99.45
Crossing RAs/ RAs (%)	0.51	2.28	2.32	0.53	0.53	2.30
Crossing RAs/ runs (%)	0.51	2.27	2.31	0.53	0.53	2.29
Cr. RA NMACs/ cross RAs (%)	0.00	1.13	1.11	0.00	0.00	1.12
Cr. RA NMACs/ NMACs* (%)	0.00	1.75	1.75	0.00	0.00	1.75
NMACs*/ runs (%)	0.31	1.46	1.46	0.49	0.49	1.46
Avg warning time** (sec)	19.36	15.88	15.89	18.35	18.35	15.88
Avg alt sep at CPA* (ft)	691.50	607.19	607.17	651.61	651.61	607.18

Class 12 TCAS - TCAS Both Responding

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
RAs/ runs (%)	99.95	73.58	73.58	85.24	85.24	73.58
Crossing RAs/ RAs (%)	0.28	0.38	0.38	0.33	0.33	0.38
Crossing RAs/ runs (%)	0.28	0.28	0.28	0.29	0.29	0.28
Cr. RA NMACs/ cross RAs (%)	0.00	8.33	8.33	0.00	0.00	8.33
Cr. RA NMACs/ NMACs* (%)	0.00	50.00	50.00	0.00	0.00	50.00
NMACs*/ runs (%)	0.00	0.05	0.05	0.00	0.00	0.05
Avg warning time** (sec)	15.80	15.10	15.10	16.67	16.67	15.10
Avg alt sep at CPA* (ft)	787.82	732.04	732.04	768.71	768.71	732.04

* NMACs and average alt. sep. at CPA are based on simulation truth
** Average warning time includes negative times (ie, RA occurs after CPA)

MITRE encounter classes: 3,13 Date processed: 6/21/94
Based on FAA Technical Center data of: 6/20/94
Total TCAS-TCAS runs for both points of view : 139726
Total incorrectly labelled RAs : 242

Class 3 TCAS - TCAS Both Responding

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
RAs/runs (%)	83.48	70.75	70.75	77 49	77.49	70.75
Crossing RAs/RAs (%)	11.86	13.36	10.72	13.70	10.95	12.04
Crossing RAs/runs (%)	9.90	9.45	7.58	10.62	8.48	8.52
Cr. RA NMACs/cross RAs (%)	0.00	0.00	0.00	0.00	0.00	0.00
Cr. RA NMACs/NMACs* (%)	0.00	0.00	0.00	0.00	0.00	0.00
NMACs*/runs (%)	0.00	0.00	0.00	0.00	0.00	0.00
Avg warning time** (sec)	17.98	16.70	17.07	17.70	18.02	16.82
Avg alt sep at CPA* (ft)	798.99	720.50	728.55	765.50	770.36	721.87

Class 13 TCAS - TCAS Both Responding

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
RAs/runs (%)	76.72	59.20	59.35	69.91	70.05	59.22
Crossing RAs/RAs (%)	15.86	19.23	14.52	17.76	14.87	16.82
Crossing RAs/runs (%)	12.17	11.39	8.62	12.41	10.42	9.96
Cr. RA NMACs/cross RAs (%)	0.00	3.99	1.00	1.40	0.83	2.28
Cr. RA NMACs/NMACs* (%)	0.00	100.00	100.00	100.00	100.00	100.00
NMACs*/runs (%)	0.00	0.45	0.09	0.17	0.09	0.23
Avg warning time** (sec)	21.85	19.94	20.27	21.50	21.73	20.03
Avg alt sep at CPA* (ft)	941.70	844.26	867.88	905.31	919.88	853.03

* NMACs and average alt. sep. at CPA are based on simulation truth
** Average warning time includes negative times (ie, RA occurs after CPA)

MITRE encounter classes: 4,14 Date processed: 6/23/94
Based on FAA Technical Center data of: 6/20/94
Total TCAS-TCAS runs for both points of view : 18144
Total incorrectly labelled RAs : 0

Class 4 TCAS - TCAS Both Responding

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
RAs/ runs (%)	100.00	96.77	96.84	95.95	96.05	96.70
Crossing RAs/ RAs (%)	22.87	17.39	7.66	18.61	15.41	11.93
Crossing RAs/ runs (%)	22.87	16.83	7.42	17.86	14.80	11.54
Cr. RA NMACs/ cross RAs (%)	0.00	0.00	0.00	0.00	0.00	0.00
Cr. RA NMACs/ NMACs* (%)	0.00	0.00	0.00	0.00	0.00	0.00
NMACs*/ runs (%)	0.00	0.00	0.00	0.00	0.00	0.00
Avg warning time** (sec)	23.59	19.54	19.87	22.40	22.64	19.69
Avg alt sep at CPA* (ft)	1081.05	942.17	948.61	1018.66	1023.71	943.61

Class 14 TCAS - TCAS Both Responding

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
RAs/ runs (%)	94.29	68.57	68.57	77.59	77.59	68.57
Crossing RAs/ RAs (%)	9.09	10.42	10.42	11.05	11.05	10.42
Crossing RAs/ runs (%)	8.57	7.14	7.14	8.57	8.57	7.14
Cr. RA NMACs/ cross RAs (%)	0.00	0.00	0.00	0.00	0.00	0.00
Cr. RA NMACs/ NMACs* (%)	0.00	0.00	0.00	0.00	0.00	0.00
NMACs*/ runs (%)	0.00	0.00	0.00	0.00	0.00	0.00
Avg warning time** (sec)	17.14	14.34	14.34	17.30	17.30	14.34
Avg alt sep at CPA* (ft)	846.34	709.93	709.93	788.05	788.05	709.93

* NMACs and average alt. sep. at CPA are based on simulation truth
** Average warning time includes negative times (ie, RA occurs after CPA)

MITRE encounter classes: 5,15 Date processed: 6/21/94
Based on FAA Technical Center data of: 6/20/94
Total TCAS-TCAS runs for both points of view : 217624
Total incorrectly labelled RAs : 104

Class 5 TCAS - TCAS Both Responding

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
RAs/runs (%)	99.64	95.94	95.91	97.45	97.44	95.92
Crossing RAs/RAs (%)	5.84	8.47	5.39	7.31	5.03	6.83
Crossing RAs/runs (%)	5.82	8.12	5.17	7.12	4.90	6.55
Cr. RA NMACs/cross RAs (%)	0.00	0.07	0.11	0.00	0.00	0.08
Cr. RA NMACs/NMACs* (%)	0.00	1.92	1.92	0.00	0.00	1.92
NMACs*/runs (%)	0.04	0.29	0.29	0.09	0.09	0.29
Avg warning time** (sec)	19.03	16.34	16.49	17.97	18.11	16.38
Avg alt sep at CPA* (ft)	875.88	758.08	759.26	818.20	819.82	758.42

Class 15 TCAS - TCAS Both Responding

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
RAs/runs (%)	95.87	73.58	73.15	82.73	82.56	73.33
Crossing RAs/RAs (%)	7.65	12.10	8.74	10.74	8.07	10.03
Crossing RAs/runs (%)	7.33	8.91	6.39	8.89	6.67	7.35
Cr. RA NMACs/cross RAs (%)	0.00	7.24	6.46	2.80	1.24	7.87
Cr. RA NMACs/NMACs* (%)	0.00	69.64	59.52	71.43	45.45	67.31
NMACs*/runs (%)	0.00	0.93	0.69	0.35	0.18	0.86
Avg warning time** (sec)	17.20	14.39	14.52	16.84	16.94	14.40
Avg alt sep at CPA* (ft)	942.15	787.74	808.46	874.05	892.87	799.25

* NMACs and average alt. sep. at CPA are based on simulation truth
** Average warning time includes negative times (ie, RA occurs after CPA)

MITRE encounter classes: 6,16 Date processed: 6/24/94
Based on FAA Technical Center data of: 6/20/94
Total TCAS-TCAS runs for both points of view : 216175
Total incorrectly labelled RAs : 1553

Class 6 TCAS - TCAS Both Responding

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
RAs/ runs (%)	99.91	94.76	94.98	97.03	96.74	94.33
Crossing RAs/ RAs (%)	26.35	21.56	17.45	24.58	22.20	19.30
Crossing RAs/ runs (%)	26.33	20.43	16.58	23.85	21.47	18.20
Cr. RA NMACs/ cross RAs (%)	1.00	2.58	0.63	1.41	0.73	1.19
Cr. RA NMACs/ NMACs* (%)	85.71	73.85	36.54	79.22	61.96	50.00
NMACs*/ runs (%)	0.31	0.71	0.29	0.42	0.25	0.43
Avg warning time** (sec)	20.00	17.33	18.38	18.99	19.67	17.83
Avg alt sep at CPA* (ft)	899.64	791.56	850.60	850.95	883.07	817.92

Class 16 TCAS - TCAS Both Responding

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
RAs/ runs (%)	99.26	77.95	77.93	88.72	88.65	77.88
Crossing RAs/ RAs (%)	29.78	24.03	13.50	28.22	23.08	18.56
Crossing RAs/ runs (%)	29.56	18.73	10.52	25.04	20.46	14.46
Cr. RA NMACs/ cross RAs (%)	1.70	4.16	0.33	2.11	1.08	1.62
Cr. RA NMACs/ NMACs* (%)	100.00	100.00	100.00	100.00	100.00	100.00
NMACs*/ runs (%)	0.50	0.78	0.03	0.53	0.22	0.23
Avg warning time** (sec)	17.91	18.47	18.93	18.67	18.84	18.61
Avg alt sep at CPA* (ft)	819.83	794.06	859.77	813.45	849.56	823.15

* NMACs and average alt. sep. at CPA are based on simulation truth
** Average warning time includes negative times (ie, RA occurs after CPA)

MITRE encounter classes: 7,17 Date processed: 6/25/94
Based on FAA Technical Center data of: 6/20/94
Total TCAS-TCAS runs for both points of view : 325998
Total incorrectly labelled RAs : 594

Class 7 TCAS - TCAS Both Responding

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
RAs/ runs (%)	99.93	99.32	99.32	99.24	99.24	99.32
Crossing RAs/ RAs (%)	1.50	3.95	3.20	1.90	1.67	3.56
Crossing RAs/ runs (%)	1.50	3.93	3.18	1.89	1.65	3.54
Cr. RA NMACs/ cross RAs (%)	0.00	0.31	0.38	0.00	0.00	0.34
Cr. RA NMACs/ NMACs* (%)	0.00	0.77	0.75	0.00	0.00	0.76
NMACs*/ runs (%)	0.78	1.57	1.61	1.08	1.09	1.59
Avg warning time** (sec)	17.52	14.79	14.77	16.63	16.62	14.78
Avg alt sep at CPA* (ft)	714.39	616.33	616.19	673.69	673.47	616.26

Class 17 TCAS - TCAS Both Responding

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
RAs/ runs (%)	95.98	71.94	71.94	83.40	83.38	71.94
Crossing RAs/ RAs (%)	1.17	2.09	1.99	1.61	1.58	2.04
Crossing RAs/ runs (%)	1.12	1.50	1.43	1.34	1.31	1.47
Cr. RA NMACs/ cross RAs (%)	7.75	23.98	16.56	7.19	6.67	19.16
Cr. RA NMACs/ NMACs* (%)	100.00	97.62	96.43	100.00	100.00	96.97
NMACs*/ runs (%)	0.09	0.37	0.25	0.10	0.09	0.29
Avg warning time** (sec)	17.93	16.08	16.08	18.11	18.11	16.08
Avg alt sep at CPA* (ft)	982.94	856.35	857.00	939.91	940.08	856.70

* NMACs and average alt. sep. at CPA are based on simulation truth
** Average warning time includes negative times (ie, RA occurs after CPA)

MITRE encounter classes: 8,18 Date processed: 6/25/94
Based on FAA Technical Center data of: 6/20/94
Total TCAS-TCAS runs for both points of view : 323036
Total incorrectly labelled RAs : 3556

Class 8 TCAS - TCAS Both Responding

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
RAs/ runs (%)	99.19	94.77	95.04	96.92	96.96	94.82
Crossing RAs/ RAs (%)	7.94	11.97	8.78	8.84	7.45	10.63
Crossing RAs/ runs (%)	7.87	11.34	8.34	8.57	7.22	10.08
Cr. RA NMACs/ cross RAs (%)	0.00	1.61	0.77	0.65	0.69	1.29
Cr. RA NMACs/ NMACs* (%)	0.00	9.91	3.71	6.22	5.58	7.24
NMACs*/ runs (%)	0.30	1.85	1.72	0.90	0.89	1.79
Avg warning time** (sec)	17.97	15.49	16.00	17.20	17.46	15.69
Avg alt sep at CPA* (ft)	831.94	705.38	730.37	777.25	786.48	712.75

Class 18 TCAS - TCAS Both Responding

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
RAs/ runs (%)	98.39	79.49	79.02	88.32	88.29	79.16
Crossing RAs/ RAs (%)	13.17	17.28	11.16	15.39	12.32	13.93
Crossing RAs/ runs (%)	12.96	13.73	8.82	13.59	10.88	11.02
Cr. RA NMACs/ cross RAs (%)	1.97	3.10	2.33	2.52	1.58	2.99
Cr. RA NMACs/ NMACs* (%)	100.00	80.70	66.67	88.10	75.51	74.74
NMACs*/ runs (%)	0.26	0.53	0.31	0.39	0.23	0.44
Avg warning time** (sec)	16.74	15.72	16.33	17.01	17.24	15.88
Avg alt sep at CPA* (ft)	905.74	787.22	840.98	859.26	883.20	809.62

* NMACs and average alt. sep. at CPA are based on simulation truth
** Average warning time includes negative times (ie, RA occurs after CPA)

MITRE encounter classes: 9,19 Date processed: 6/23/94
Based on FAA Technical Center data of: 6/20/94
Total TCAS-TCAS runs for both points of view : 279616
Total incorrectly labelled RAs : 320

Class 9 TCAS - TCAS Both Responding

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
RAs/ runs (%)	82.91	70.54	73.41	77.33	78.12	70.81
Crossing RAs/ RAs (%)	29.50	24.84	29.34	27.23	31.66	27.33
Crossing RAs/ runs (%)	24.46	17.52	21.53	21.06	24.73	19.35
Cr. RA NMACs/ cross RAs (%)	0.03	0.70	0.97	0.05	0.13	0.67
Cr. RA NMACs/ NMACs* (%)	50.00	56.67	82.86	37.50	90.00	69.23
NMACs*/ runs (%)	0.01	0.22	0.25	0.03	0.04	0.19
Avg warning time** (sec)	17.34	15.71	17.80	16.87	18.30	16.75
Avg alt sep at CPA* (ft)	843.44	750.35	809.60	806.89	852.21	783.27

Class 19 TCAS - TCAS Both Responding

	6.02 only	6.04 only	6.04A only	6.02 / 6.04	6.02 / 6.04A	6.04 / 6.04A
RAs/ runs (%)	84.76	71.04	70.59	79.99	79.71	70.66
Crossing RAs/ RAs (%)	39.68	32.95	22.94	35.84	32.19	28.92
Crossing RAs/ runs (%)	33.63	23.41	16.19	28.67	25.66	20.43
Cr. RA NMACs/ cross RAs (%)	6.83	11.58	2.52	8.47	5.42	7.90
Cr. RA NMACs/ NMACs* (%)	100.00	100.00	100.00	100.00	99.58	99.64
NMACs*/ runs (%)	2.30	2.71	0.41	2.43	1.40	1.62
Avg warning time** (sec)	21.70	19.80	20.68	21.31	21.82	20.20
Avg alt sep at CPA* (ft)	937.48	863.74	970.62	917.05	972.81	911.84

* NMACs and average alt. sep. at CPA are based on simulation truth
** Average warning time includes negative times (ie, RA occurs after CPA)

APPENDIX J

NMACS UNIQUE TO VERSION 6.04A
TABLES 7.4 AND 9.4

1. TABLE 7.4 NMACS

The plot in Figure J-1 is representative of the Class 7 encounters in which version 6.04a induces an NMAC and version 6.04 resolves the encounter. The plot shows Aircraft 1 and Aircraft 2 performance when both are 6.04a-equipped. The associated encounter summaries for versions 6.02, 6.04, and 6.04a are given in Figure J-2.

This encounter is an example of 6.04a modification 2, described in Section 4.1. Here, Aircraft 1 is the first to detect the threat, selecting a crossing RA against Aircraft 2. However, the altitude separation test comes into play, holding off Aircraft 1's issuance of a crossing RA until the aircraft are within 600 feet. Meanwhile, Aircraft 2, seeing the geometry slightly differently, selects and communicates a non-crossing RA to Aircraft 1. Aircraft 1 must comply with the received intent and thus also selects a non-crossing RA. The real problem is that the non-crossing RA is not a good choice. By the time that Aircraft 2 can respond to the RA, it has already achieved a substantial climb rate toward Aircraft 1 and cannot arrest its rate in time to achieve separation in the opposite direction.

In contrast, with the version 6.04 logic, there is nothing to hold off Aircraft 1's original selection of the crossing RA. Here, the crossing RA is consistent with and reinforces the strong maneuver being executed by Aircraft 2, and adequate separation can be achieved.

As stated in Section 5.2.2, although this encounter is technically labeled an induced NMAC with 6.04a, the encounter without TCAS (separation of 250 feet) is hardly benign. Both aircraft are flying level, separated by less than 1000 feet. Twenty seconds before closest approach, the lower aircraft suddenly accelerates strongly and climbs through the other aircraft's altitude. This is not an encounter that would occur deliberately in the airspace. By delaying issuing the crossing RA, the 6.04a logic is betting that the lower aircraft is more likely to level-off than to cross through the higher aircraft's altitude. Although that is not true for this encounter, it is still generally considered the proper choice.

2. TABLE 9.4 NMACS

The plot in Figure J-3 is representative of the Class 9 encounters in which version 6.04a induces an NMAC and version 6.04 resolves the encounter. The plot shows Aircraft 1 and Aircraft 2 performance when both are 6.04a-equipped. The associated encounter summaries for versions 6.02, 6.04, and 6.04a are given in Figure J-4.

This encounter is similar to the Seattle encounter, except that the aircraft plan to level-off 250 feet apart, instead of 1000 feet. Here again, the 6.04a modification 2 comes into play, with both aircraft selecting crossing RAs and the altitude separation test causing the RAs to be deferred until the aircraft come within 850 feet. In all three versions of the logic, crossing RAs are selected. In versions 6.02 and 6.04, however, the altitude separation test does not apply in this geometry; thus, there is no deferral of the RA, and the extra time allows the aircraft to achieve adequate vertical separation. In version 6.04a, the RA simply comes too late to be effective. Again (as in the Table 7.4 example above), by delaying issuing the crossing RA, the 6.04a logic is betting that the lower aircraft will level-off at least 1000 feet below the higher aircraft. Although that is not true for this encounter, it is still generally considered the proper choice.

One item of note for the version 6.04a logic in this encounter is the long interval between the appearance of the potential RA (time=34 seconds for both aircraft) and the issuance of the RA

(time=49 and 51 seconds for Aircraft 2 and 1, respectively). This is due to a sensitivity level change in the middle of the encounter. Both aircraft detect a threat at time=34 seconds, but while the RA is being delayed (Aircraft 1: defer display (coordination), Aircraft 2: altitude separation test), the sensitivity level drops from 5 to 4, thereby increasing the threat detection thresholds. The threat status then drops back to TA for both aircraft. The sensitivity level 4 thresholds are crossed at time=40 seconds for both aircraft, but the issuance of the RAs is then delayed by the altitude separation test. Note that there is a proposal for the Change 7 TCAS logic to not allow the sensitivity level to change during an encounter.

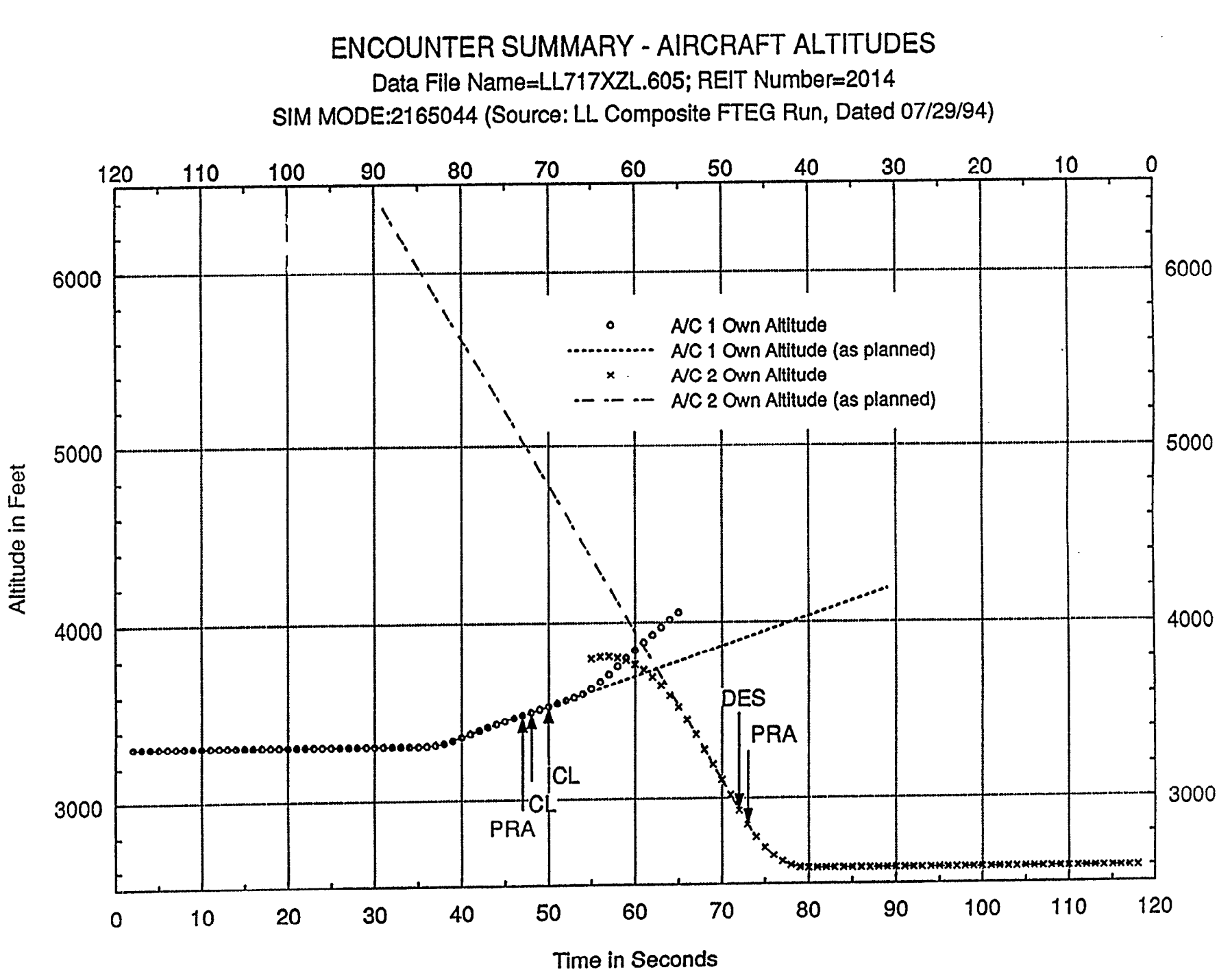


Figure J-1. Encounter Summary - Aircraft Altitudes. Data File Name=LL717XZL.605; REIT Number=2014, SIM MODE:2165044 (Source: LL Composiste FTEG Run, Dated 07/29/94)

```
  2014    6.02 RL VS 6.02 RH     7     658.58     NON_CROSSING_ENCOUNTER
SL =  5  ZTHR =  750.0   TAUR =  25.0   TAUV =  25.0   ALIM = 400.0
 -250.0 (0.0,1000.0)  (0.0,5000.0)  0.15   0.35  -25.0  -20.0     3700.0
A/C1: CL717CF,2162022 |TAUR | LD5   @34   [NXRA]| LD1   @44          | LD2   @56
A/C2:CL717EF2,2262122 |TAUR | LC5   @34   [NXRA]| LC2   @45


  2014    6.04 RL VS 6.04 RH     7    -475.41     CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
 -250.0 (0.0,1000.0)  (0.0,5000.0)  0.15   0.35  -25.0  -20.0     3700.0
A/C1:  CL717O,2164033 |TAUV | DES   @47   [XRA]
A/C2:CL717OP2,2264133 |TAUV | CL    @47   [XRA] | ICL   @49


  2014    6.04A  RL VS 6.04A RH     7      94.30     NON_CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
 -250.0 (0.0,1000.0)  (0.0,5000.0)  0.15   0.35  -25.0  -20.0     3700.0
A/C1: CL717WZ,2165044 |TAUV | POTRA @47   (6FT) | CL    @48   [NXRA]| ICL   @50
A/C2:CL717YZ2,2265144 |TAUV | POTRA @47   (DFD) | DES   @48   [NXRA]
```

Figure J-2. Encounter Summaries for 6.02, 6.04, and 6.04a.

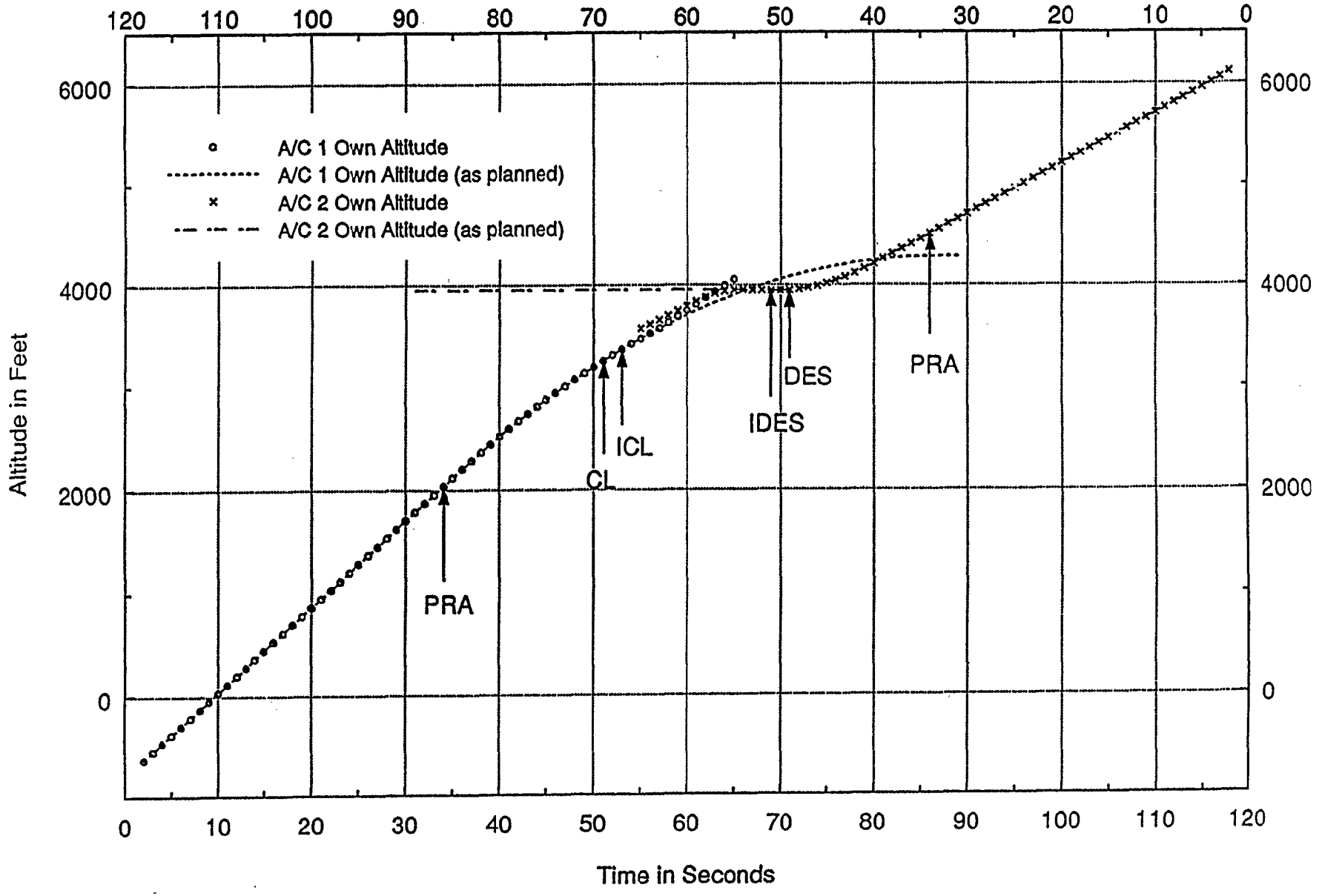


Figure J-3. Encounter Summary - Aircraft Altitudes, Data File Name=LL919YZH.605; REIT Number=1509, SIM MODE:2165144 (Source: LL Composite FTEG Run, Dated 07/29/94)

```
  1509   6.02 RH VS 6.02 RL     9     898.37.    CROSSING_ENCOUNTER
SL =  5  ZTHR =  750.0   TAUR =  25.0   TAUV =  25.0   ALIM = 400.0
 -250.0 (5000.0,0.0)  (-3000.0,0.0) -0.05   0.15  -25.0  -20.0    3700.0
A/C1: CL919CF,2162122 |PVMD | CL    @38   [XRA] | LD2   @57
A/C2:CL919EH2,2262022 |PVMD | DES   @35   [XRA] | IDES  @54


  1509   6.04 RH VS 6.04 RL     9     312.08     CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
 -250.0 (5000.0,0.0)  (-3000.0,0.0) -0.05   0.15  -25.0  -20.0    3700.0
A/C1: CL919OR,2164133 |PVMD | CL    @45   [XRA] | ICL   @47         | CL    @57
A/C2:CL919OR2,2264033 |PVMD | DES   @44   [XRA] | IDES  @50


  1509   6.04A  RH VS 6.04A RL     9     -27.82     CROSSING_ENCOUNTER
SL =  5  ZTHR =  600.0   TAUR =  25.0   TAUV =  25.0   ALIM = 300.0
 -250.0 (5000.0,0.0)  (-3000.0,0.0) -0.05   0.15  -25.0  -20.0    3700.0
A/C1: CL919WZ,2165144 |TAUR | POTRA @34   (DFD) | CL    @51   [XRA] | ICL   @53
A/C2:CL919YZ2,2265044 |TAUR | POTRA @34   (6FT) | DES   @49   [XRA] | IDES  @51
```

Figure J-4. Encounter Summaries for 6.02, 6.04, and 6.04a.

APPENDIX K

CLASS WEIGHTS[2]

Class	Weight
1	0.0197
2	0.0004
3	0.0033
4	0.0145
5	0.0025
6	0.0029
7	0.0002
8	0.0005
9	0.0001
10+0	0.3973
11	0.1929
12	0.0759
13	0.1081
14	0.1167
15	0.0205
16	0.0256
17	0.0019
18	0.0094
19	0.0074
Total:	1.0000

2 McLaughlin, M.P. and A.D. Zeitlin, "Safety Study of TCAS II for Logic Version 6.04a." The MITRE Corporation, McLean, VA, MTR 93W0000234, November 1993.

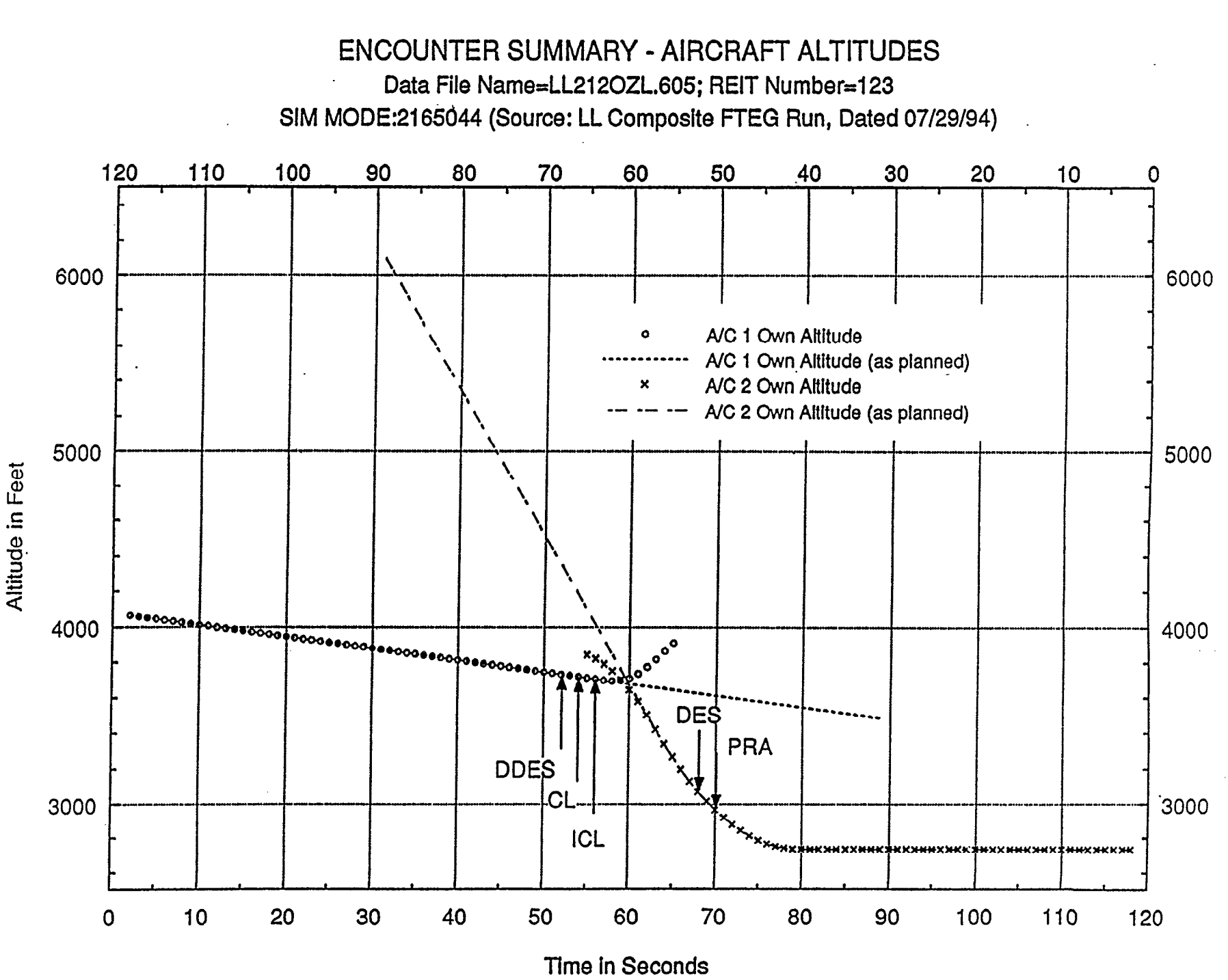
APPENDIX L

30 REPRESENTATIVE NMAC ENCOUNTERS

TOTAL 6.04a NMACs AND CHARACTERISTIC 6.04a NMAC GROUPS PER CLASS AND TABLE
(Table 3 - Unresolved NMACs; Table 4 - Induced NMACs)

Cls	Tbl	Characteristic Data File and REIT	NMACs in Grp	% of Tbl	NMACs in Tbl	# of Enc.	% of Enc.
0	3	Total NMACs for Table=			0	16	0.0
0	4	Total NMACs for Table=			0	20	0.0
1	3	Total NMACs for Table=			0	72	0.0
1	4	Total NMACs for Table=			0	304	0.0
2	3	Total NMACs for Table=			5	864	0.58%
		LL212OZL.605 0123	5	100.0%			
2	4	Total NMACs for Table=			52	3032	1.72%
		LL212OZL.605 1196	52	100.0%			
3	3	Total NMACs for Table=			0	736	0.0
3	4	Total NMACs for Table=			0	2416	0.0
4	3	Total NMACs for Table=			0	120	0.0
4	4	Total NMACs for Table=			0	608	0.0
5	3	Total NMACs for Table=			0	1580	0.0
5	4	Total NMACs for Table=			26	7488	0.35%
		LL515WZL.605 1006	5	19.2%			
		LL515WZL.605 1195	4	15.4%			
		LL515WZL.605 1952	17	65.4%			
6	3	Total NMACs for Table=			14	1728	0.81%
		LL616WZL.605 0081	4	28.6%			
		LL616WZL.605 5863	10	71.4%			
6	4	Total NMACs for Table=			12	7384	0.16%
		LL616WZL.605 4612	12	100.0			
7	3	Total NMACs for Table=			4	2416	0.17%
		LL717XZL.605 2538	4	100.0			
7	4	Total NMACs for Table=			196	9988	1.96%
		LL717XZL.605 2014	5	2.6%			
		LL717XZL.605 8982	191	97.4%			
8	3	Total NMACs for Table=			30	2592	1.16%
		LL818YZL.605 0641	4	13.3%			
		LL818YZL.605 7305	7	23.3%			
		LL818YZL.605 8712	19	63.3%			
8	4	Total NMACs for Table=			188	10044	1.87%
		LL818YZL.605 1385	27	14.4%			
		LL818YZL.605 2655	152	80.9%			
		LL818YZL.605 3615	4	2.1%			
		LL818YZH.605 4970	5	2.7%			

Cls	Tbl	Characteristic Data File and REIT	NMACs in Grp	% of Tbl	NMACs in Tbl	# of Enc.	% of Enc.
9	3	Total NMACs for Table=			0	1158	0.0
9	4	Total NMACs for Table=			18	5808	0.31%
		LL919YZH.605 1509	14	77.8%			
		LL919YZH.605 3523	4	22.2%			
10	3	Total NMACs for Table=			0	8	0.0
10	4	Total NMACs for Table=			0	124	0.0
11	3	Total NMACs for Table=			0	0	0.0
11	4	Total NMACs for Table=			0	128	0.0
12	3	Total NMACs for Table=			0	0	0.0
12	4	Total NMACs for Table=			1	2152	0.05%
		LL212OZL.605 1421	1	100.0			
13	3	Total NMACs for Table=			0	128	0.0
13	4	Total NMACs for Table=			4	4496	0.09%
		LL313SZL.605 1614	4	100.0			
14	3	Total NMACs for Table=			0	24	0.0
14	4	Total NMACs for Table=			0	256	0.0
15	3	Total NMACs for Table=			0	148	0.0
15	4	Total NMACs for Table=			21	2880	0.73%
		LL515WZL.605 4283	18	85.7%			
		LL515WZL.605 5543	3	14.3%			
16	3	Total NMACs for Table=			0	0	0.0
16	4	Total NMACs for Table=			1	2984	0.03%
		LL616WZL.605 2491	1	100.0			
17	3	Total NMACs for Table=			0	176	0.0
17	4	Total NMACs for Table=			14	5564	0.25%
		LL717XZL.605 2732	14	100.0			
18	3	Total NMACs for Table=			0	0	0.0
18	4	Total NMACs for Table=			17	5508	0.31%
		LL818YZL.605 1520	12	70.6%			
		LL818YZH.605 3978	5	29.4%			
19	3	Total NMACs for Table=			0	570	0.0
19	4	Total NMACs for Table=			36	8016	0.45%
		LL919YZH.605 2883	11	30.6%			
		LL919YZH.605 7162	25	69.4%			
				TOTAL	639		


ENCOUNTER SUMMARY - AIRCRAFT ALTITUDES
Data File Name=LL212OZL.605; REIT Number=123
SIM MODE:2165044 (Source: LL Composite FTEG Run, Dated 07/29/94)
A/C 1 Own Altitude
A/C 1 Own Altitude (as planned)
A/C 2 Own Altitude
A/C 2 Own Altitude (as planned)
DDES
CL
ICL
DES
PRA
Altitude in Feet
Time in Seconds
6000
5000
4000
3000
0
10
20
30
40
50
60
70
80
90
100
110
120

```
   123   6.02 RL VS 6.02 RH    2    238.85    NON_CROSSING_ENCOUNTER
SL =  5  ZTHR =  750.0   TAUR =  25.0   TAUV =  25.0   ALIM = 400.0
    0.0 (-400.0,-400.0)  (0.0,5000.0)  0.00   0.15    0.0  -20.0    3680.0
A/C1: CL212CH,2162022 |TAUV | DDES  @50   [NXRA]| CL    @52
A/C2:CL212EJ2,2262122 |TAUV | POTRA @48   (DFD) | DES   @50   [NXRA]

   123   6.04 RL VS 6.04 RH    2     82.53    NON_CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
    0.0 (-400.0,-400.0)  (0.0,5000.0)  0.00   0.15    0.0  -20.0    3680.0
A/C1: CL212OT,2164033 |TAUV | DDES  @52   [NXRA]| CL    @54         | ICL   @56
A/C2:CL212MR2,2264133 |TAUV | POTRA @50   (DFD) | DES   @52   [NXRA]

   123   6.04A  RL VS 6.04A RH    2     82.53    NON_CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
    0.0 (-400.0,-400.0)  (0.0,5000.0)  0.00   0.15    0.0  -20.0    3680.0
A/C1: CL212UZ,2165044 |TAUV | DDES  @52   [NXRA]| CL    @54         | ICL   @56
A/C2:CL212UZ2,2265144 |TAUV | POTRA @50   (DFD) | DES   @52   [NXRA]
```

Mitre encounter Class : 2 Reit number : 123

NMAC Characterization

100% had pattern shown on attached plot		
100% had planned separation =	0	ft
AC1 rates :	0, +/- 400	fpm
AC2 rates :	5000	fpm
AC1 accel :	0.0	g
AC2 accel :	0.15	g
AC2 accel time : CPA:	20	sec

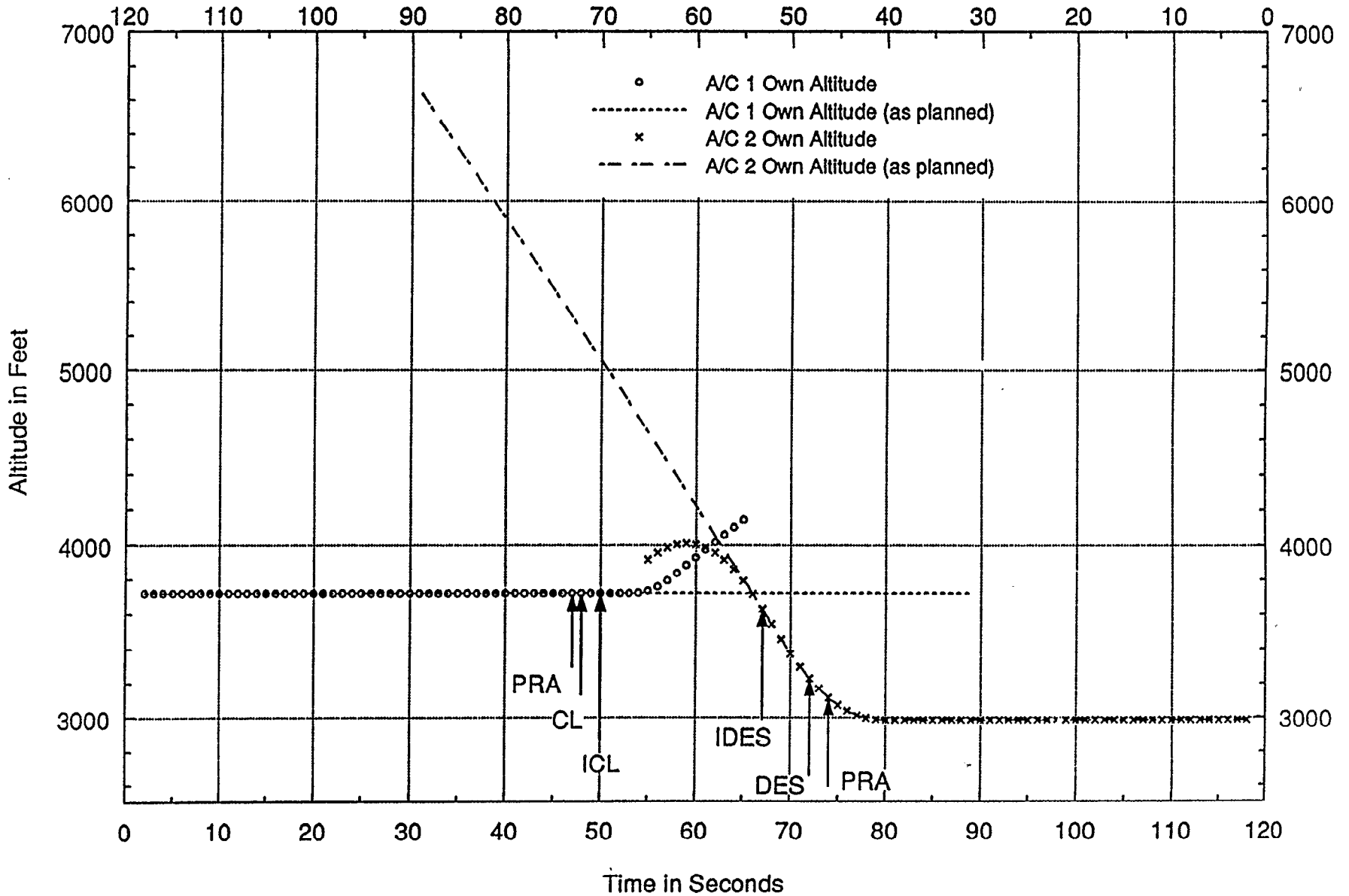
Performance Statistics (relate to whole class)

97% of RAs were non-crossing
98% of NMACs were non-crossing

ENCOUNTER SUMMARY - AIRCRAFT ALTITUDES

Data File Name=LL212OZL.605; REIT Number=1196

SIM MODE:2165044 (Source: LL Composite FTEG Run, Dated 07/29/94)



```
  1196    6.02 RL VS 6.02 RH     2     518.60     NON_CROSSING_ENCOUNTER
SL =  5  ZTHR =  750.0   TAUR =  25.0   TAUV =  25.0   ALIM = 400.0
 -500.0 (0.0,0.0)   (0.0,5000.0)  0.00   0.25    0.0  -20.0    3720.0
A/C1: CL212CH,2162022 |TAUR | LD5   @34   [NXRA]| LD1   @46          | LD5   @49
A/C2:CL212EJ2,2262122 |TAUR | LC5   @34   [NXRA]| LC1   @51


  1196    6.04 RL VS 6.04 RH     2     -48.15     NON_CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
 -500.0 (0.0,0.0)   (0.0,5000.0)  0.00   0.25    0.0  -20.0    3720.0
A/C1: CL212OT,2164033 |RELZ | POTRA @47   (LVW) | CL    @48   [NXRA]| ICL   @50
A/C2:CL212MR2,2264133 |RELZ | POTRA @46   (DFD) | DES   @48   [NXRA]| IDES  @53


  1196    6.04A  RL VS 6.04A RH     2     -48.15     NON_CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
 -500.0 (0.0,0.0)   (0.0,5000.0)  0.00   0.25    0.0  -20.0    3720.0
A/C1: CL212UZ,2165044 |RELZ | POTRA @47   (LVW) | CL    @48   [NXRA]| ICL   @50
A/C2:CL212UZ2,2265144 |RELZ | POTRA @46   (DFD) | DES   @48   [NXRA]| IDES  @53
```

Mitre encounter Class : 2 Reit number : 1196

NMAC Characterization

100%	had pattern shown on attached plot	
60%	had planned separation = -500	ft
AC1	rates: 0, +/- 400	fpm
96%	had AC2 rate: 5000	fpm
AC1	accel: 0.0	g
94%	had AC2 accel: 0.25 or 0.35	g
96%	had AC2 accel time CPA: 20	sec

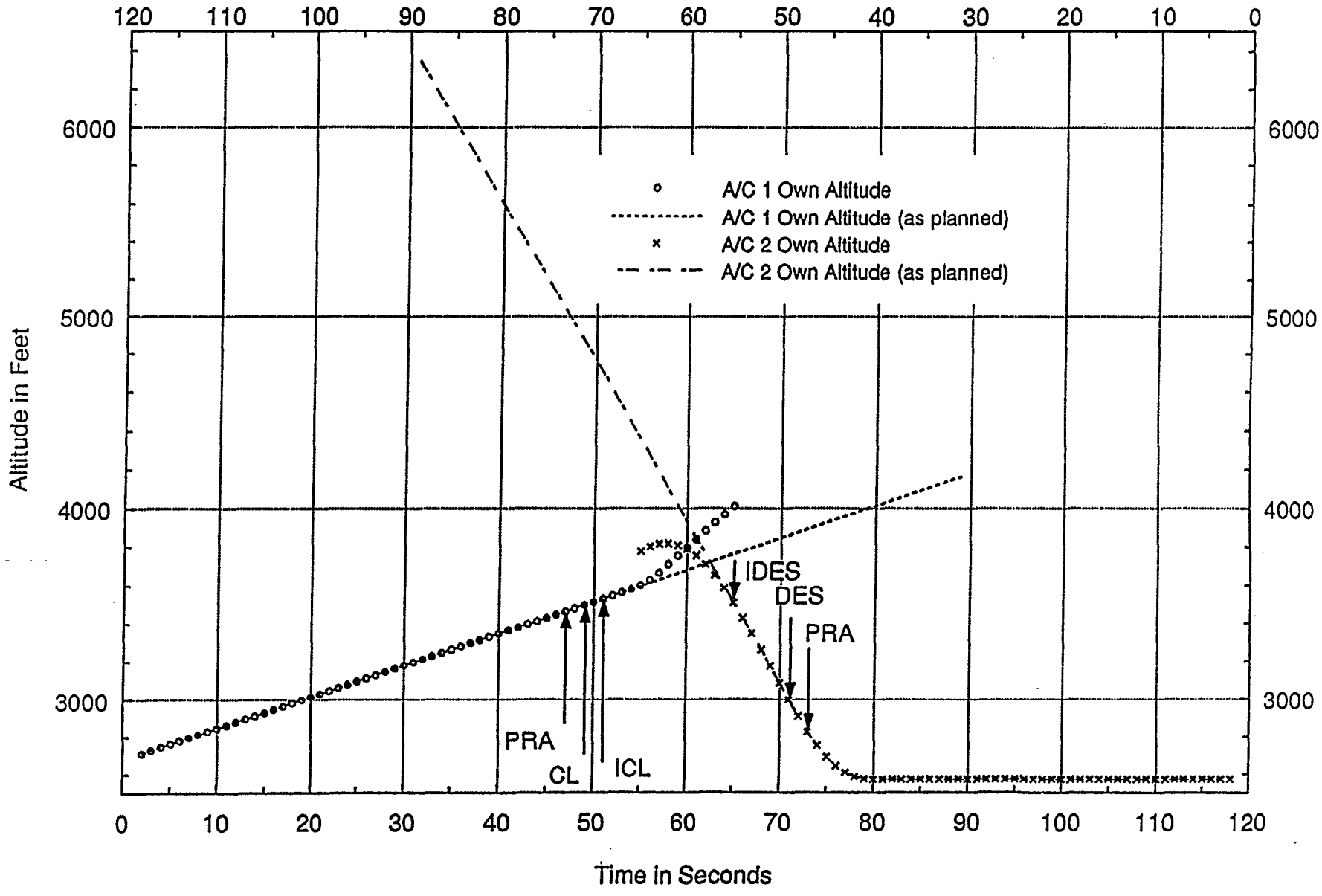
Performance Statistics (relate to whole class)

98% of RAs were non-crossing
98% of NMACs were non-crossing

ENCOUNTER SUMMARY - AIRCRAFT ALTITUDES

Data File Name=LL515WZL.605; REIT Number=1006

SIM MODE:2165044 (Source: LL Composite FTEG Run, Dated 07/29/94)



```
  1006   6.02 RL VS 6.02 RH     5     272.99     NON_CROSSING_ENCOUNTER
SL =  5  ZTHR =  750.0   TAUR =  25.0   TAUV =  25.0   ALIM = 400.0
 -250.0 (1000.0,1000.0)  (0.0,5000.0)  0.00   0.35     0.0  -20.0     3680.0
A/C1: CL515CE,2162022 |PVMD | CL    @46   [NXRA]| ICL   @49
A/C2:CL515EG2,2262122 |RELZ | POTRA @45   (DFD) | DES   @46   [NXRA]


  1006   6.04 RL VS 6.04 RH     5      31.50     NON_CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
 -250.0 (1000.0,1000.0)  (0.0,5000.0)  0.00   0.35     0.0  -20.0     3680.0
A/C1: CL5150Q,2164033 |TAUV | POTRA @47   (VTT) | CL    @49   [NXRA]| ICL   @51
A/C2:CL515MO2,2264133 |TAUV | POTRA @47   (DFD) | DES   @49   [NXRA]| IDES  @55


  1006   6.04A  RL VS 6.04A RH     5      31.50     NON_CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
 -250.0 (1000.0,1000.0)  (0.0,5000.0)  0.00   0.35     0.0  -20.0     3680.0
A/C1: CL515XZ,2165044 |TAUV | POTRA @47   (VTT) | CL    @49   [NXRA]| ICL   @51
A/C2:CL515XZ2,2265144 |TAUV | POTRA @47   (DFD) | DES   @49   [NXRA]| IDES  @55
```

Mitre encounter Class : 5 Reit number : 1006

NMAC Characterization

20% had pattern shown on attached plot		
100% had planned separation =	250	ft
AC1 rates :	1000	fpm
AC2 rates :	5000	fpm
AC1 accel :	0.0	g
AC2 accel :	0.15, 0.25, 0.35	g
80% had AC2 accel time CPA:	20	sec

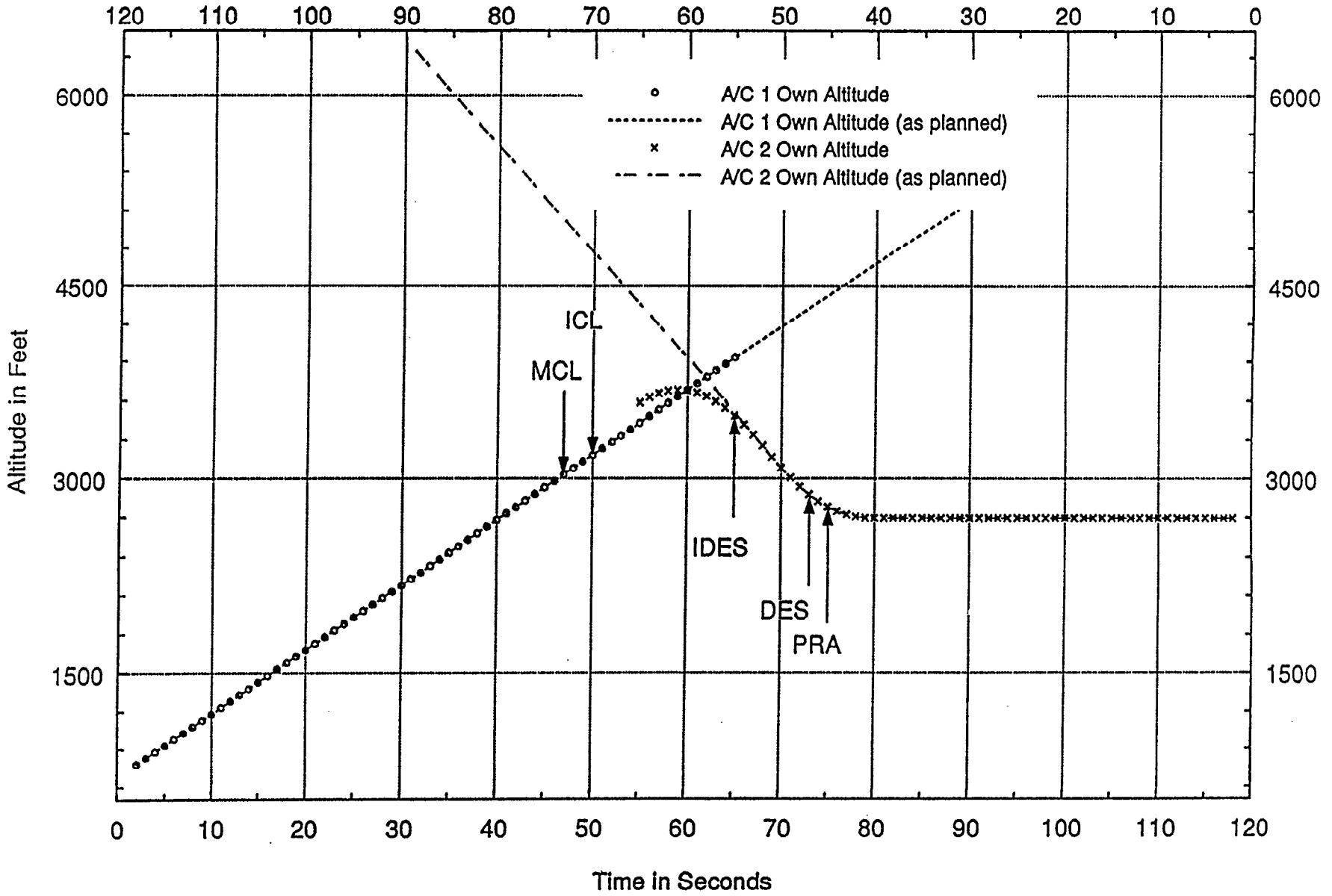
Performance Statistics (relate to whole class)

95% of RAs were non-crossing
98% of NMACs were non-crossing

ENCOUNTER SUMMARY - AIRCRAFT ALTITUDES

Data File Name=LL515WZL.605; REIT Number=1195

SIM MODE:2165044 (Source: LL Composite FTEG Run, Dated 07/29/94)



```
  1195   6.02 RL VS 6.02 RH    5    206.39    CROSSING_ENCOUNTER
SL =  5  ZTHR =  750.0   TAUR =  25.0   TAUV =  25.0   ALIM = 400.0
 -250.0 (3000.0,3000.0)  (0.0,5000.0)  0.00   0.25    0.0  -20.0    3680.0
A/C1: CL515CE,2162022 |PVMD | POTRA @44   (FRM) | MCL   @45   [NXRA]| ICL   @50
A/C2:CL515EG2,2262122 |PVMD | POTRA @43   (DFD) | DES   @45   [NXRA]| IDES  @54


  1195   6.04 RL VS 6.04 RH    5     21.86    CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
 -250.0 (3000.0,3000.0)  (0.0,5000.0)  0.00   0.25    0.0  -20.0    3680.0
A/C1: CL5150Q,2164033 |PVMD | MCL   @47   [NXRA]| ICL   @50
A/C2:CL515MO2,2264133 |PVMD | POTRA @45   (DFD) | DES   @47   [NXRA]| IDES  @55


  1195   6.04A  RL VS 6.04A RH    5     21.86    CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
 -250.0 (3000.0,3000.0)  (0.0,5000.0)  0.00   0.25    0.0  -20.0    3680.0
A/C1: CL515XZ,2165044 |PVMD | MCL   @47   [NXRA]| ICL   @50
A/C2:CL515XZ2,2265144 |PVMD | POTRA @45   (DFD) | DES   @47   [NXRA]| IDES  @55
```

Mitre encounter Class : 5 Reit number : 1195

NMAC Characterization

15% had pattern shown on attached plot		
100% had planned separation =	250	ft
AC1 rates :	3000	fpm
AC2 rates :	5000	fpm
AC1 accel :	0.0	g
AC2 accel :	0.25, 0.35	g
AC2 accel time : CPA:	20	sec

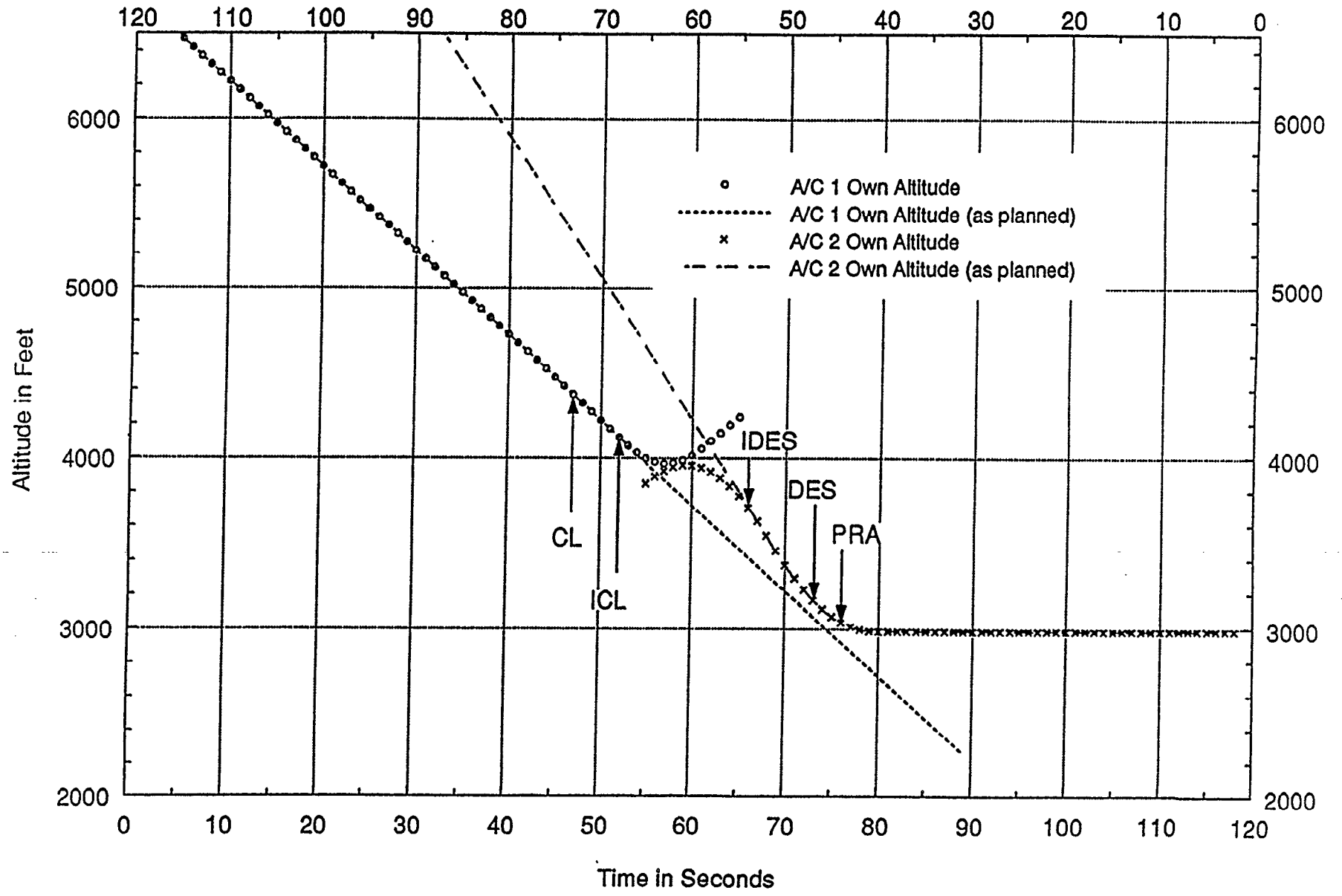
Performance Statistics (relate to whole class)

95% of RAs were non-crossing
98% of NMACs were non-crossing

ENCOUNTER SUMMARY - AIRCRAFT ALTITUDES

Data File Name=LL515WZL.605; REIT Number=1952

SIM MODE:2165044 (Source: LL Composite FTEG Run, Dated 07/29/94)



```
  1952    6.02 RL VS 6.02 RH     5     387.83     NON_CROSSING_ENCOUNTER
SL =  5  ZTHR =  750.0   TAUR =  25.0   TAUV =  25.0   ALIM = 400.0
 -500.0 (-3000.0,-3000.0)  (0.0,5000.0)  0.00   0.25    0.0  -20.0    3720.0
A/C1: CL515CE,2162022 |TAUV | CL    @45   [NXRA]| ICL   @52
A/C2:CL515EG2,2262122 |TAUV | POTRA @44   (DFD) | DES   @45   [NXRA]

  1952    6.04 RL VS 6.04 RH     5      98.41     NON_CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
 -500.0 (-3000.0,-3000.0)  (0.0,5000.0)  0.00   0.25    0.0  -20.0    3720.0
A/C1: CL515OQ,2164033 |TAUV | CL    @47   [NXRA]| ICL   @52
A/C2:CL515MO2,2264133 |TAUV | POTRA @44   (DFD) | DES   @47   [NXRA]| IDES  @54

  1952    6.04A  RL VS 6.04A RH     5      98.41     NON_CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
 -500.0 (-3000.0,-3000.0)  (0.0,5000.0)  0.00   0.25    0.0  -20.0    3720.0
A/C1: CL515XZ,2165044 |TAUV | CL    @47   [NXRA]| ICL   @52
A/C2:CL515XZ2,2265144 |TAUV | POTRA @44   (DFD) | DES   @47   [NXRA]| IDES  @54
```

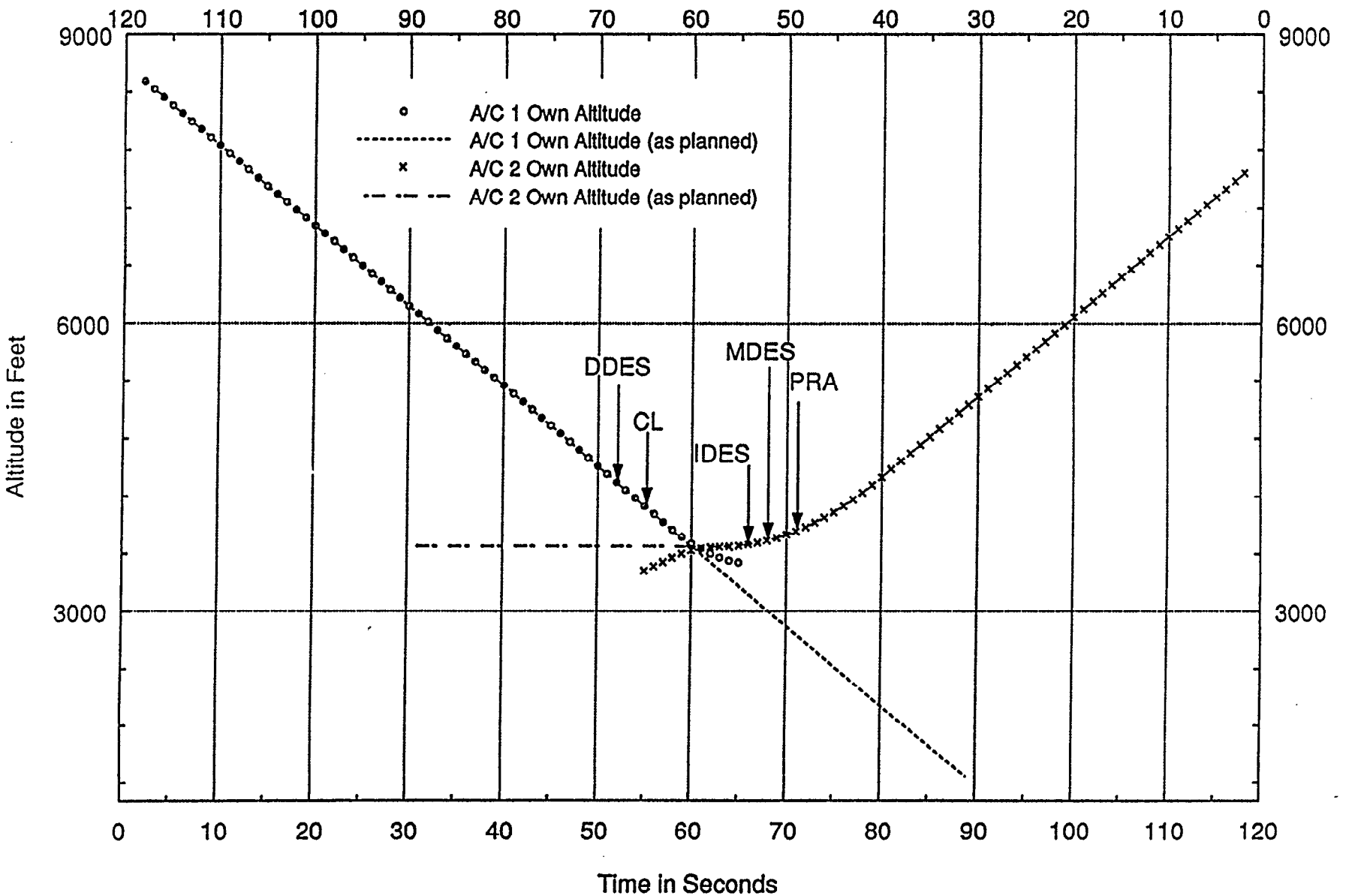
Mitre encounter Class : 5 Reit number : 1952

NMAC Characterization

65% had pattern shown on attached plot		
planned separation =	-250, -500, -750	ft
AC1 rates :	(76%)1000, (24%)3000	fpm
AC2 rates :	(94%)5000, (6%)3000	fpm
AC1 accel :	0.0	g
AC2 accel :	(6%) 0.15, (70%) 0.25, (24%) 0.35	g
AC2 accel time : CPA:	(94%)20 or (6%) 25	sec

Performance Statistics (relate to whole class)

95% of RAs were non-crossing
98% of NMACs were non-crossing


ENCOUNTER SUMMARY - AIRCRAFT ALTITUDES
Data File Name=LL616WZL.605; REIT Number=0081
SIM MODE:2165044 (Source: LL Composite FTEG Run, Dated 07/29/94)
A/C 1 Own Altitude
A/C 1 Own Altitude (as planned)
A/C 2 Own Altitude
A/C 2 Own Altitude (as planned)
DDES
CL
IDES
MDES
PRA
Altitude in Feet
Time in Seconds
9000
6000
3000
120
110
100
90
80
70
60
50
40
30
20
10
0

```
    81   6.02 RL VS 6.02 RH    6    171.03    NON_CROSSING_ENCOUNTER
SL =  5  ZTHR =  750.0   TAUR =  25.0   TAUV =  25.0   ALIM = 400.0
    0.0 (-5000.0,-5000.0)  (-5000.0,0.0)  0.00   0.15    0.0  -20.0    3680.0
A/C1: CL616CE,2162022 |RELZ | LD2   @51   [NXRA]| CL    @52
A/C2:CL616EG2,2262122 |TAUV | POTRA @49   (DFD) | MDES  @51   [NXRA]| IDES  @53

    81   6.04 RL VS 6.04 RH    6     90.58    NON_CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
    0.0 (-5000.0,-5000.0)  (-5000.0,0.0)  0.00   0.15    0.0  -20.0    3680.0
A/C1: CL616OQ,2164033 |TAUV | DDES  @52   [NXRA]| CL    @55
A/C2:CL616MO2,2264133 |TAUV | POTRA @49   (VTT) | MDES  @52   [NXRA]| IDES  @54

    81   6.04A  RL VS 6.04A RH    6     90.58    NON_CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
    0.0 (-5000.0,-5000.0)  (-5000.0,0.0)  0.00   0.15    0.0  -20.0    3680.0
A/C1: CL616XZ,2165044 |TAUV | DDES  @52   [NXRA]| CL    @55
A/C2:CL616XZ2,2265144 |TAUV | POTRA @49   (VTT) | MDES  @52   [NXRA]| IDES  @54
```

Mitre encounter Class : 6 Reit number : 81

NMAC Characterization

29% had pattern shown on attached plot		
100% had planned separation =	0	ft
AC1 rates :	-5000	fpm
AC2 rates :	-5000	fpm
AC1 accel :	0.0	g
AC2 accel :	0.15	g
AC2 accel time :CPA:	20	sec

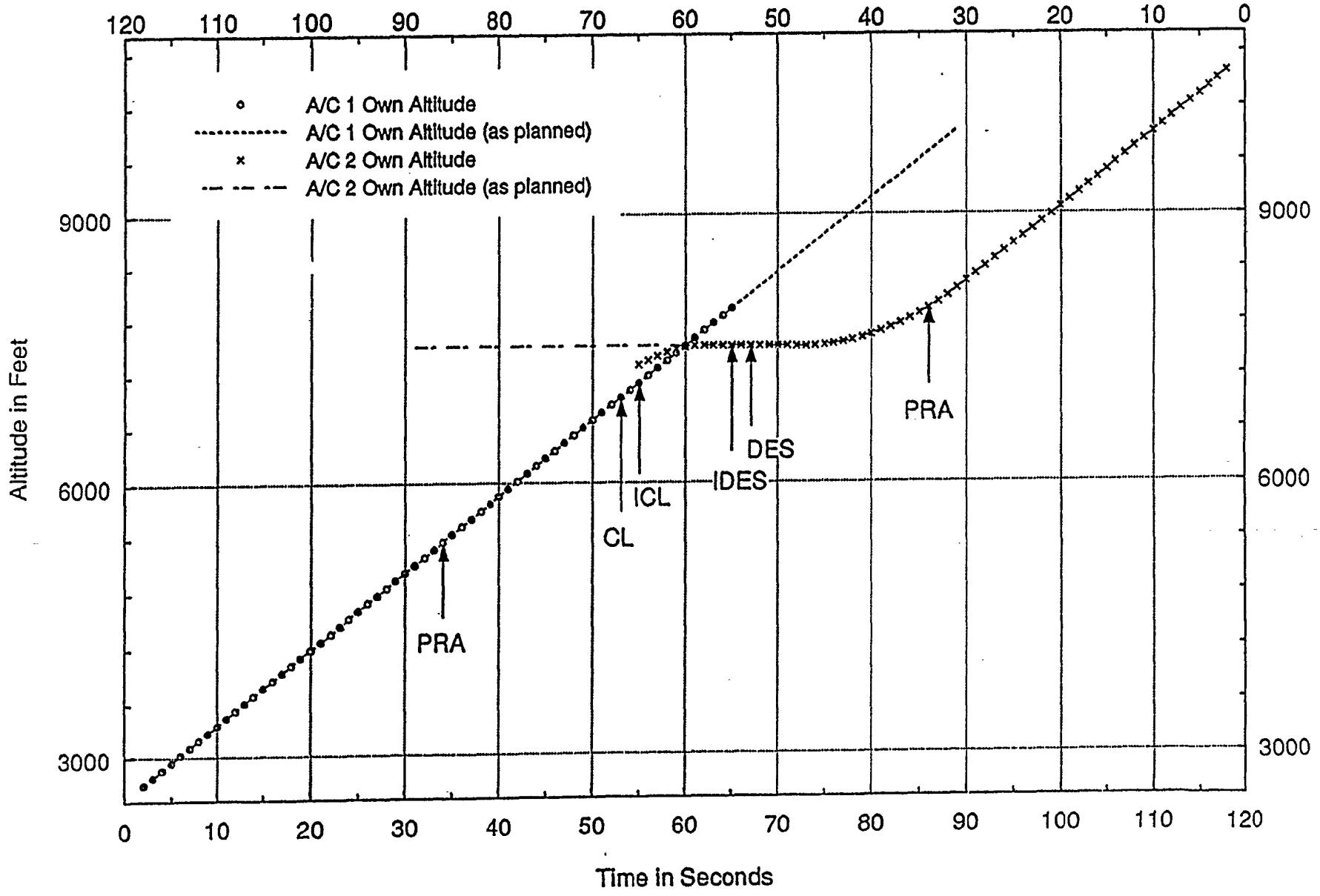
Performance Statistics (relate to whole class)

82% of RAs were non-crossing
63% of NMACs were non-crossing

ENCOUNTER SUMMARY - AIRCRAFT ALTITUDES

Data File Name=LL616WZL.605; REIT Number=5863

SIM MODE:2165044 (Source: LL Composite FTEG Run, Dated 07/29/94)



```
  5863   6.02 RL VS 6.02 RH     6     469.11     CROSSING_ENCOUNTER
SL =  5  ZTHR =  750.0   TAUR =  25.0   TAUV =  25.0   ALIM = 400.0
    0.0 (5000.0,5000.0)  (-5000.0,0.0) 0.00   0.15    0.0  -30.0    7520.0
A/C1: CL616CE,2162022 |PVMD | CL    @43   [XRA] | MCL   @58
A/C2:CL616EG2,2262122 |PVMD | POTRA @39   (DFD) | DES   @42   [XRA] | IDES  @44

  5863   6.04 RL VS 6.04 RH     6     422.90     CROSSING_ENCOUNTER
SL =  5  ZTHR =  600.0   TAUR =  25.0   TAUV =  25.0   ALIM = 350.0
    0.0 (5000.0,5000.0)  (-5000.0,0.0) 0.00   0.15    0.0  -30.0    7520.0
A/C1: CL6160Q,2164033 |PVMD | CL    @43   [XRA] | MCL   @58
A/C2:CL616MO2,2264133 |PVMD | POTRA @41   (DFD) | DES   @43   [XRA] | IDES  @45

  5863   6.04A  RL VS 6.04A RH     6      22.51     CROSSING_ENCOUNTER
SL =  5  ZTHR =  600.0   TAUR =  25.0   TAUV =  25.0   ALIM = 300.0
    0.0 (5000.0,5000.0)  (-5000.0,0.0) 0.00   0.15    0.0  -30.0    7520.0
A/C1: CL616XZ,2165044 |TAUR | POTRA @34   (6FT) | CL    @53   [XRA] | ICL   @55
A/C2:CL616XZ2,2265144 |TAUR | POTRA @34   (6FT) | DES   @53   [XRA] | IDES  @55
```

Mitre encounter Class : 6 Reit number : 5863

NMAC Characterization

71% had pattern shown on attached plot		
100% had planned separation =	0	ft
AC1 rates :	5000	fpm
AC2 rates :	(10%) -3000, (90%) -5000	fpm
AC1 accel :	0.0	g
AC2 accel :	(80%) 0.15, (20%) 0.35	g
AC2 accel time :CPA:	20, 25, or 30	sec (evenly distributed)

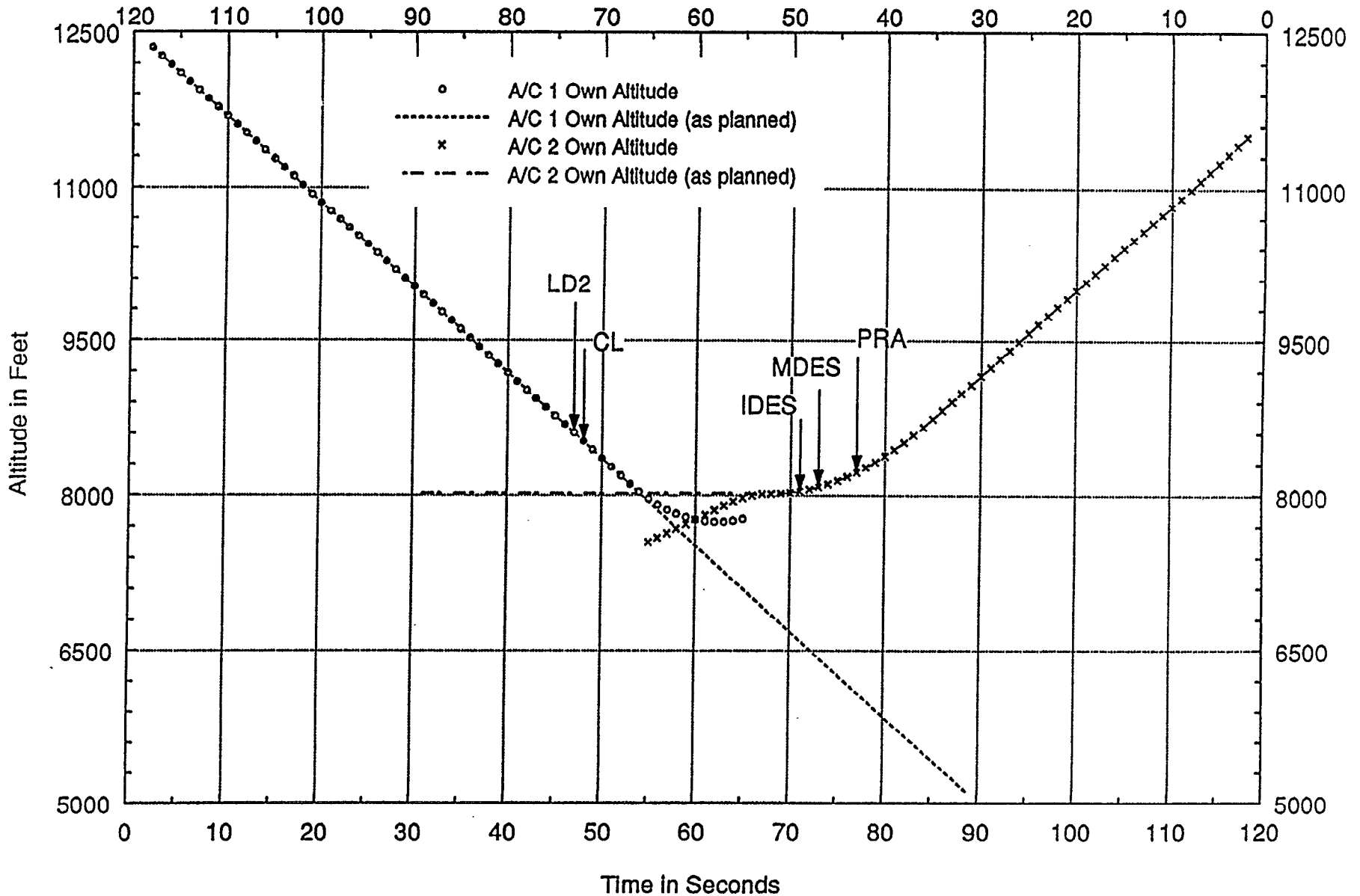
Performance Statistics (relate to whole class)

82% of RAs were non-crossing
63% of NMACs were non-crossing

ENCOUNTER SUMMARY - AIRCRAFT ALTITUDES

Data File Name=LL616WZL.605; REIT Number=4612

SIM MODE:2165044 (Source: LL Composite FTEG Run, Dated 07/29/94)



```
 4612   6.02 RL VS 6.02 RH    6    515.43    NON_CROSSING_ENCOUNTER
SL =  5  ZTHR =  750.0   TAUR =  25.0   TAUV =  25.0   ALIM = 400.0
 -500.0 (-5000.0,-5000.0)  (-5000.0,0.0)  0.00   0.15    0.0  -25.0    7520.0
A/C1: CL616CE,2162022 |RELZ | LD2   @43   [NXRA]| CL    @48
A/C2:CL616EG2,2262122 |RELZ | POTRA @42   (DFD) | MDES  @43   [NXRA]| IDES  @45

 4612   6.04 RL VS 6.04 RH    6   -725.09    CROSSING_ENCOUNTER
SL =  5  ZTHR =  600.0   TAUR =  25.0   TAUV =  25.0   ALIM = 350.0
 -500.0 (-5000.0,-5000.0)  (-5000.0,0.0)  0.00   0.15    0.0  -25.0    7520.0
A/C1: CL6160Q,2164033 |RELZ | DES   @47   [XRA] | MDES  @56
A/C2:CL616MO2,2264133 |TAUV | POTRA @43   (VTT) | CL    @47   [XRA] | ICL   @53

 4612   6.04A  RL VS 6.04A RH    6     18.15    CROSSING_ENCOUNTER
SL =  5  ZTHR =  600.0   TAUR =  25.0   TAUV =  25.0   ALIM = 350.0
 -500.0 (-5000.0,-5000.0)  (-5000.0,0.0)  0.00   0.15    0.0  -25.0    7520.0
A/C1: CL616XZ,2165044 |RELZ | LD2   @47   [NXRA]| CL    @48
A/C2:CL616XZ2,2265144 |TAUV | POTRA @43   (VTT) | MDES  @47   [NXRA]| IDES  @49
```

Mitre encounter Class : 6 Reit number : 4612

NMAC Characterization

100% had pattern shown on attached plot		
planned separation =	-250, -500	ft (evenly distributed)
AC1 rates :	-5000	fpm
AC2 rates :	-5000	fpm
AC1 accel :	0.0	g
AC2 accel : (17%) 0.15, (50%) 0.25, (33%) 0.35		g
AC2 accel time :CPA: (83%) 20, (17%) 25		sec

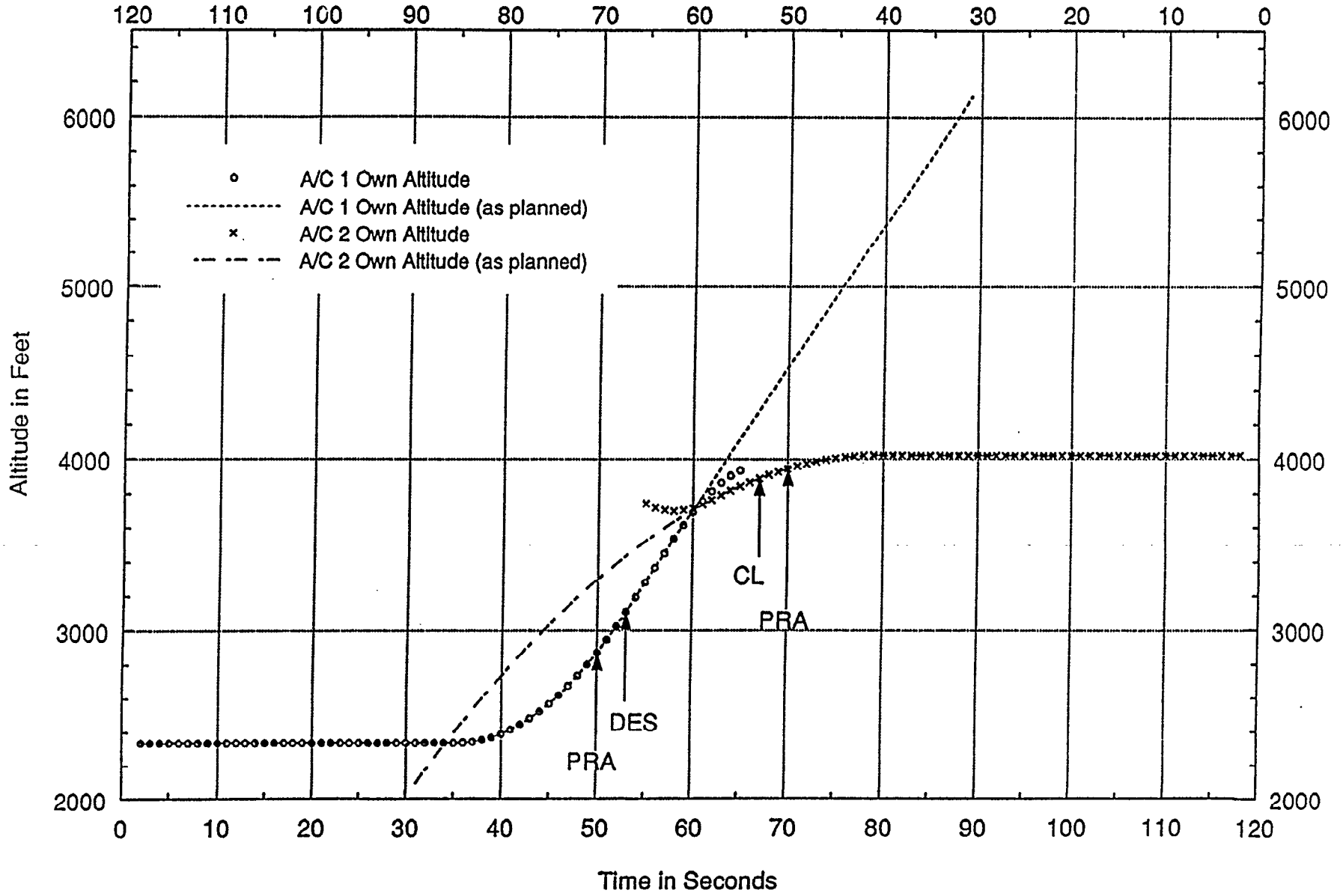
Performance Statistics (relate to whole class)

82% of RAs were non-crossing
63% of NMACs were non-crossing

ENCOUNTER SUMMARY - AIRCRAFT ALTITUDES

Data File Name=LL717XZL.605; REIT Number=2538

SIM MODE:2165044 (Source: LL Composite FTEG Run, Dated 07/29/94)



```
  2538   6.02 RL VS 6.02 RH     7    -370.75     NON_CROSSING_ENCOUNTER
SL =  5  ZTHR =  750.0   TAUR =  25.0   TAUV =  25.0   ALIM = 400.0
    0.0 (0.0,5000.0)  (0.0,-5000.0)  0.15  -0.05  -25.0  -20.0     3700.0
A/C1: CL717CF,2162022 |TAUV | LC2   @48   [NXRA]| DES   @55
A/C2:CL717EF2,2262122 |TAUV | LD1   @49   [NXRA]| CL    @50

  2538   6.04 RL VS 6:04 RH     7     -35.39     CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
    0.0 (0.0,5000.0)  (0.0,-5000.0)  0.15  -0.05  -25.0  -20.0     3700.0
A/C1:  CL717O,2164033 |TAUV | POTRA @50   (FRM) | DES   @53   [NXRA]
A/C2:CL717OP2,2264133 |TAUV | POTRA @50   (FRM) | CL    @53   [NXRA]

  2538   6.04A  RL VS 6.04A RH     7     -35.39     CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
    0.0 (0.0,5000.0)  (0.0,-5000.0)  0.15  -0.05  -25.0  -20.0     3700.0
A/C1: CL717WZ,2165044 |TAUV | POTRA @50   (FRM) | DES   @53   [NXRA]
A/C2:CL717YZ2,2265144 |TAUV | POTRA @50   (FRM) | CL    @53   [NXRA]
```

Mitre encounter Class : 7 Reit number : 2538

NMAC Characterization

100% had pattern shown on attached plot		
100% had planned separation =	0	ft
AC1 rates :	5000	fpm
AC2 rates :	-3000, -5000	fpm
AC1 accel :	0.15	g
AC2 accel :	-0.05	g
AC2 accel time : CPA:	20	sec

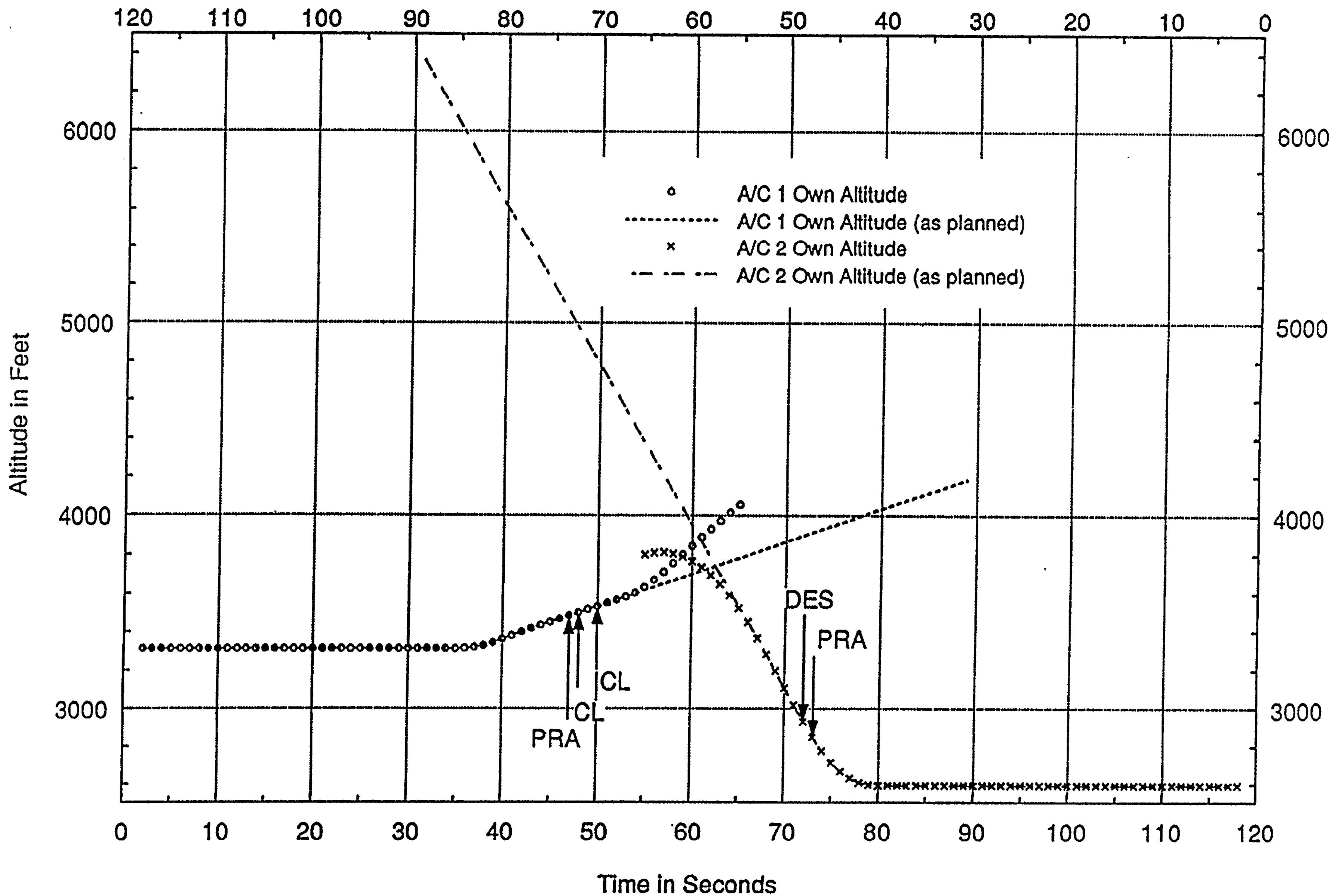
Performance Statistics (relate to whole class)

96% of RAs were non-crossing
99% of NMACs were non-crossing

ENCOUNTER SUMMARY - AIRCRAFT ALTITUDES

Data File Name=LL717XZL.605; REIT Number=2014

SIM MODE:2165044 (Source: LL Composite FTEG Run, Dated 07/29/94)



```
  2014   6.02 RL VS 6.02 RH    7     658.58     NON_CROSSING_ENCOUNTER
SL =  5  ZTHR =  750.0   TAUR =  25.0   TAUV =  25.0   ALIM = 400.0
 -250.0 (0.0,1000.0)  (0.0,5000.0)  0.15   0.35  -25.0  -20.0     3700.0
A/C1: CL717CF,2162022 |TAUR | LD5   @34   [NXRA]| LD1   @44          | LD2   @56
A/C2:CL717EF2,2262122 |TAUR | LC5   @34   [NXRA]| LC2   @45


  2014   6.04 RL VS 6.04 RH    7    -475.41     CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
 -250.0 (0.0,1000.0)  (0.0,5000.0)  0.15   0.35  -25.0  -20.0     3700.0
A/C1:  CL717O,2164033 |TAUV | DES   @47   [XRA]
A/C2:CL717OP2,2264133 |TAUV | CL    @47   [XRA] | ICL   @49


  2014   6.04A  RL VS 6.04A RH    7      94.30     NON_CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
 -250.0 (0.0,1000.0)  (0.0,5000.0)  0.15   0.35  -25.0  -20.0     3700.0
A/C1: CL717WZ,2165044 |TAUV | POTRA @47   (6FT) | CL    @48   [NXRA]| ICL   @50
A/C2:CL717YZ2,2265144 |TAUV | POTRA @47   (DFD) | DES   @48   [NXRA]
```

Mitre encounter Class : 7 Reit number : 2014

NMAC Characterization

2% had pattern shown on attached plot		
planned separation =	+/- 250	ft
AC1 rates :	(60%) 5000 (40%) 1000	fpm
AC2 rates :	(60%) 1000 (40%) 5000	fpm
AC1 accel :	(80%) 0.15, (20%) 0.25	g
AC2 accel :	(20%) 0.15, (20%) 0.25, (60%) 0.35	g
AC2 accel time :	no distinct pattern	

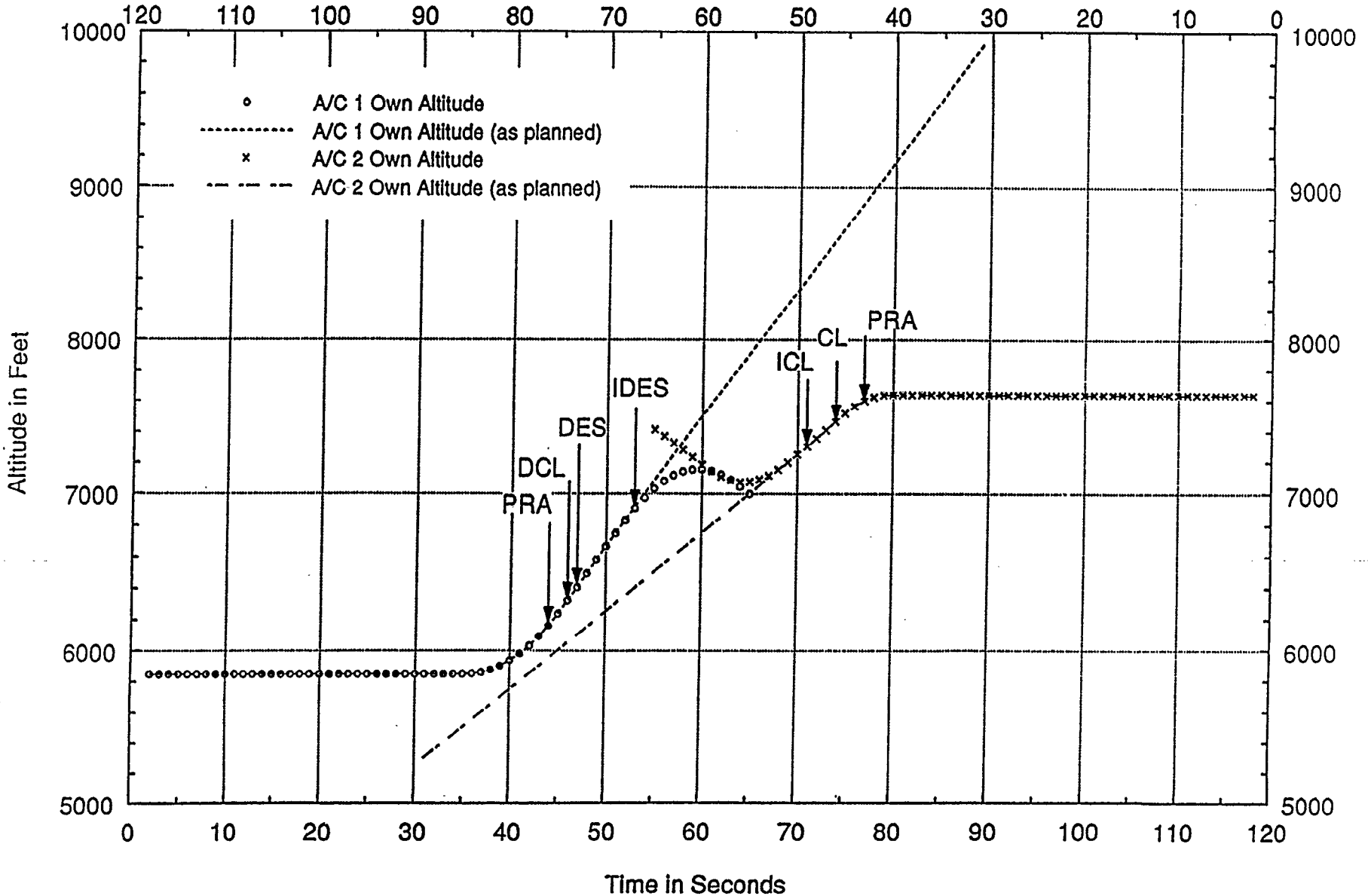
Performance Statistics (relate to whole class)

96% of RAs were non-crossing
99% of NMACs were non-crossing

ENCOUNTER SUMMARY - AIRCRAFT ALTITUDES

Data File Name=LL717XZL.605; REIT Number=8982

SIM MODE:2165044 (Source: LL Composite FTEG Run, Dated 07/29/94)



```
  8982    6.02 RL VS 6.02 RH     7     -67.85     NON_CROSSING_ENCOUNTER

SL =  5  ZTHR =  750.0   TAUR =  25.0   TAUV =  25.0   ALIM = 400.0

  750.0 (0.0,5000.0)  (0.0,-3000.0)  0.25  -0.35  -25.0  -20.0     7500.0

A/C1: CL717CF,2162022 |TAUV | POTRA @44   (FRM) | DCL   @46   [NXRA]| DES   @47
                            | IDES  @53

A/C2:CL717EF2,2262122 |TAUV | POTRA @43   (FRM) | CL    @46   [NXRA]| ICL   @49


  8982    6.04 RL VS 6.04 RH     7     -67.85     NON_CROSSING_ENCOUNTER

SL =  5  ZTHR =  600.0   TAUR =  25.0   TAUV =  25.0   ALIM = 350.0

  750.0 (0.0,5000.0)  (0.0,-3000.0)  0.25  -0.35  -25.0  -20.0     7500.0

A/C1:  CL7170,2164033 |TAUV | POTRA @44   (FRM) | DCL   @46   [NXRA]| DES   @47
                            | IDES  @53

A/C2:CL7170P2,2264133 |TAUV | POTRA @43   (FRM) | CL    @46   [NXRA]| ICL   @49


  8982   6.04A  RL VS 6.04A RH     7     -67.85     NON_CROSSING_ENCOUNTER

SL =  5  ZTHR =  600.0   TAUR =  25.0   TAUV =  25.0   ALIM = 350.0

  750.0 (0.0,5000.0)  (0.0,-3000.0)  0.25  -0.35  -25.0  -20.0     7500.0

A/C1: CL717WZ,2165044 |TAUV | POTRA @44   (FRM) | DCL   @46   [NXRA]| DES   @47
                            | IDES  @53

A/C2:CL717YZ2,2265144 |TAUV | POTRA @43   (FRM) | CL    @46   [NXRA]| ICL   @49
```

Mitre encounter Class : 7 Reit number : 8982

NMAC Characterization

97% had pattern shown on attached plot		
planned separation	=250, 500, or 750	ft
AC1 rates :	>=1000	fpm
AC2 rates :	<= -1000	fpm
AC1 accel :	0.15, 0.25, 0.35	g (evenly distributed)
AC2 accel :	-0.15, -0.25, -0.35	g (evenly distributed)
AC2 accel time varies:	(20, 25 or 30 sec before CPA)	

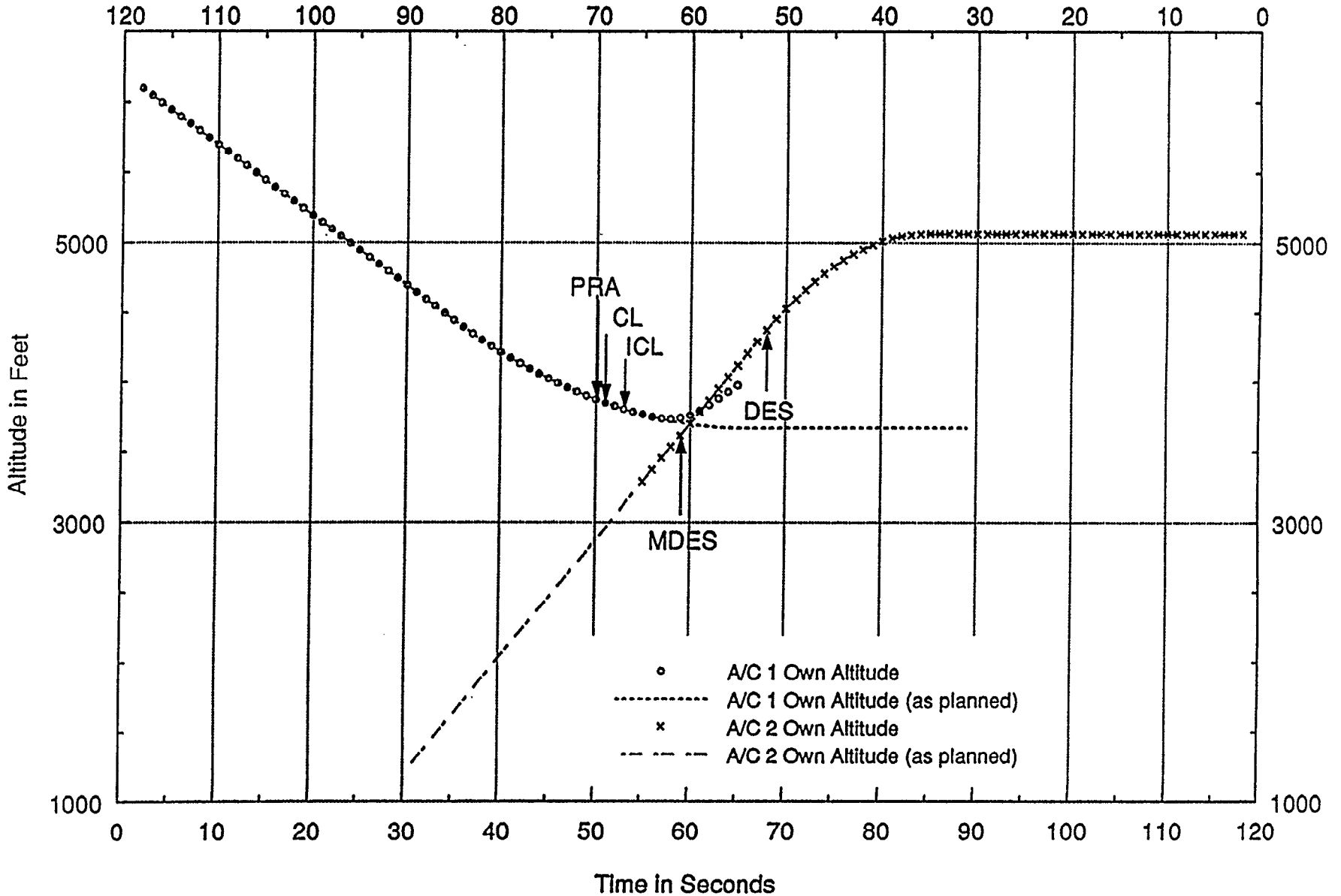
Performance Statistics (relate to whole class)

96% of RAs were non-crossing
99% of NMACs were non-crossing

ENCOUNTER SUMMARY - AIRCRAFT ALTITUDES

Data File Name=LL818YZL.605; REIT Number=0641

SIM MODE:2165044 (Source: LL Composite FTEG Run, Dated 07/29/94)



```
   641   6.02 RL VS 6.02 RH    8   -285.17    CROSSING_ENCOUNTER
SL =  5  ZTHR =  750.0   TAUR =  25.0   TAUV =  25.0   ALIM = 400.0
    0.0 (-3000.0,0.0)  (0.0,-5000.0)  0.05  -0.15  -25.0  -25.0    3700.0
A/C1: CL818CF,2162022 |RELZ | MDES  @49   [NXRA]| IDES  @51
A/C2:CL818EH2,2262122 |RELZ | POTRA @48   (DFD) | CL    @49   [NXRA]


   641   6.04 RL VS 6.04 RH    8     77.21    CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
    0.0 (-3000.0,0.0)  (0.0,-5000.0)  0.05  -0.15  -25.0  -25.0    3700.0
A/C1: CL8180R,2164033 |TAUV | POTRA @50   (FRM) | CL    @51   [XRA] | ICL   @53
A/C2:CL8180R2,2264133 |RELZ | DES   @52   [XRA] | MDES  @61


   641   6.04A  RL VS 6.04A RH    8     77.21    CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
    0.0 (-3000.0,0.0)  (0.0,-5000.0)  0.05  -0.15  -25.0  -25.0    3700.0
A/C1: CL818WZ,2165044 |TAUV | POTRA @50   (FRM) | CL    @51   [XRA] | ICL   @53
A/C2:CL818XZ2,2265144 |RELZ | DES   @52   [XRA] | MDES  @61
```

Mitre encounter Class: 8 Reit number: 641

NMAC Characterization

13% had pattern shown on attached plot		
100% had planned separation =	0	ft
AC1 rates :	-3000	fpm
AC2 rates :	-5000	fpm
AC1 accel :	0.05	g
AC2 accel :	-0.15	g
AC2 accel time : CPA:	25	sec

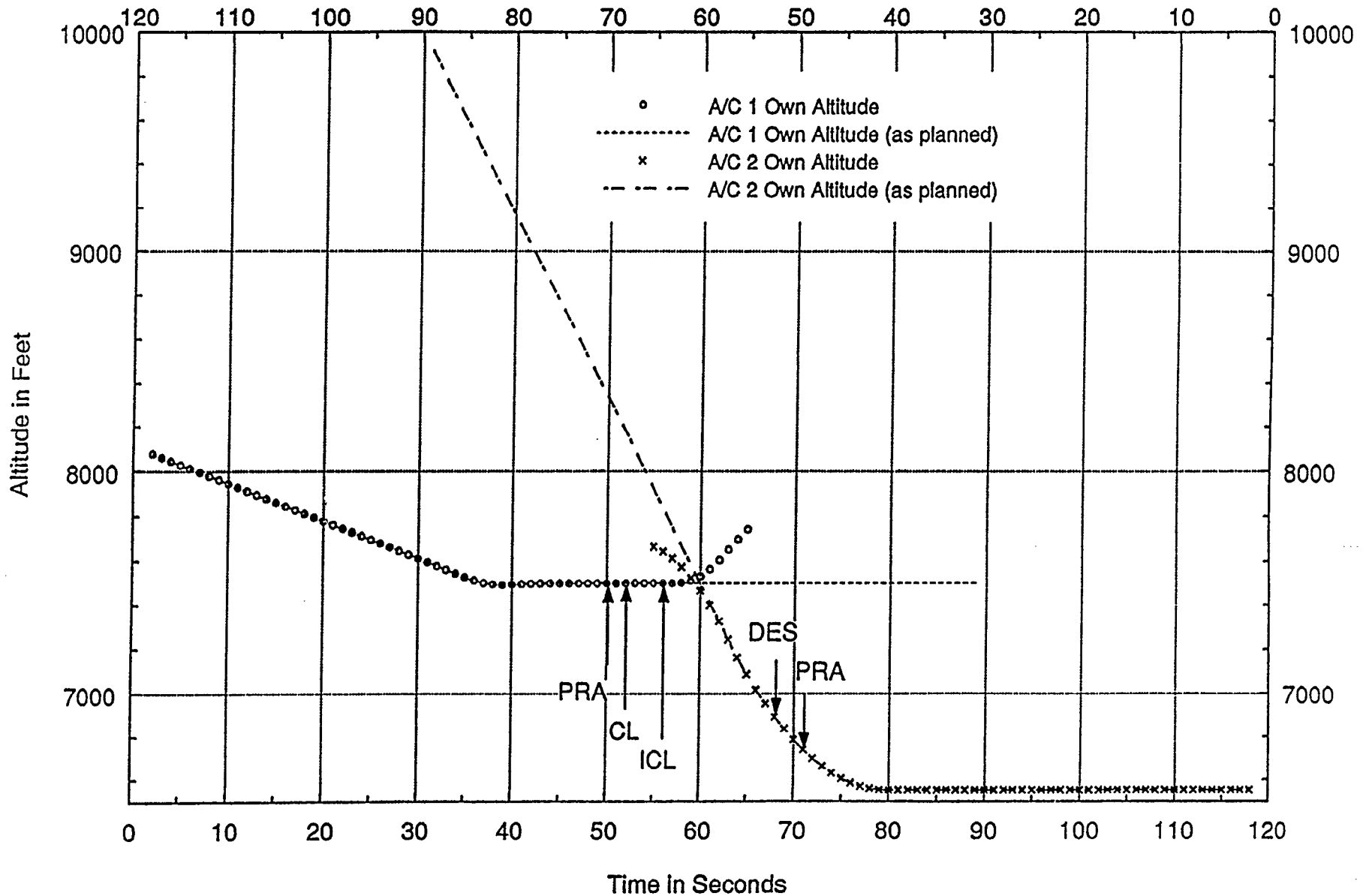
Performance Statistics (relate to whole class)

91% of RAs were non-crossing
96% of NMACs were non-crossing

ENCOUNTER SUMMARY - AIRCRAFT ALTITUDES

Data File Name=LL818YZL.605; REIT Number=7305

SIM MODE:2165044 (Source: LL Composite FTEG Run, Dated 07/29/94)



```
  7305   6.02 RL VS 6.02 RH    8    248.72    NON_CROSSING_ENCOUNTER
SL =  5  ZTHR =  750.0   TAUR =  25.0   TAUV =  25.0   ALIM = 400.0
    0.0 (-1000.0,0.0)  (0.0,5000.0)  0.15   0.15  -25.0  -20.0    7500.0
A/C1: CL818CF,2162022 |PVMD | CL    @50   [NXRA]| ICL   @56
A/C2;CL818EH2,2262122 |TAUV | POTRA @49   (DFD) | DES   @50   [NXRA]


  7305   6.04 RL VS 6.04 RH    8     82.53    NON_CROSSING_ENCOUNTER
SL =  5  ZTHR =  600.0   TAUR =  25.0   TAUV =  25.0   ALIM = 350.0
    0.0 (-1000.0,0.0)  (0.0,5000.0)  0.15   0.15  -25.0  -20.0    7500.0
A/C1: CL818OR,2164033 |TAUV | POTRA @50   (VTT) | CL    @52   [NXRA]| ICL   @56
A/C2:CL818OR2,2264133 |TAUV | POTRA @49   (DFD) | DES   @52   [NXRA]


  7305   6.04A  RL VS 6.04A RH    8     82.53    NON_CROSSING_ENCOUNTER
SL =  5  ZTHR =  600.0   TAUR =  25.0   TAUV =  25.0   ALIM = 350.0
    0.0 (-1000.0,0.0)  (0.0,5000.0)  0.15   0.15  -25.0  -20.0    7500.0
A/C1: CL818WZ,2165044 |TAUV | POTRA @50   (VTT) | CL    @52   [NXRA]| ICL   @56
A/C2:CL818XZ2,2265144 |TAUV | POTRA @49   (DFD) | DES   @52   [NXRA]
```

Mitre encounter Class : 8 Reit number : 7305

NMAC Characterization

23% had pattern shown on attached plot		
100% had planned separation =	0	ft
AC1 rates :	-1000, -3000	fpm
AC2 rates :	5000	fpm
AC1 accel :	0.5, 0.15, 0.25	g
AC2 accel :	0.15	g
AC2 accel time : CPA:	20	sec

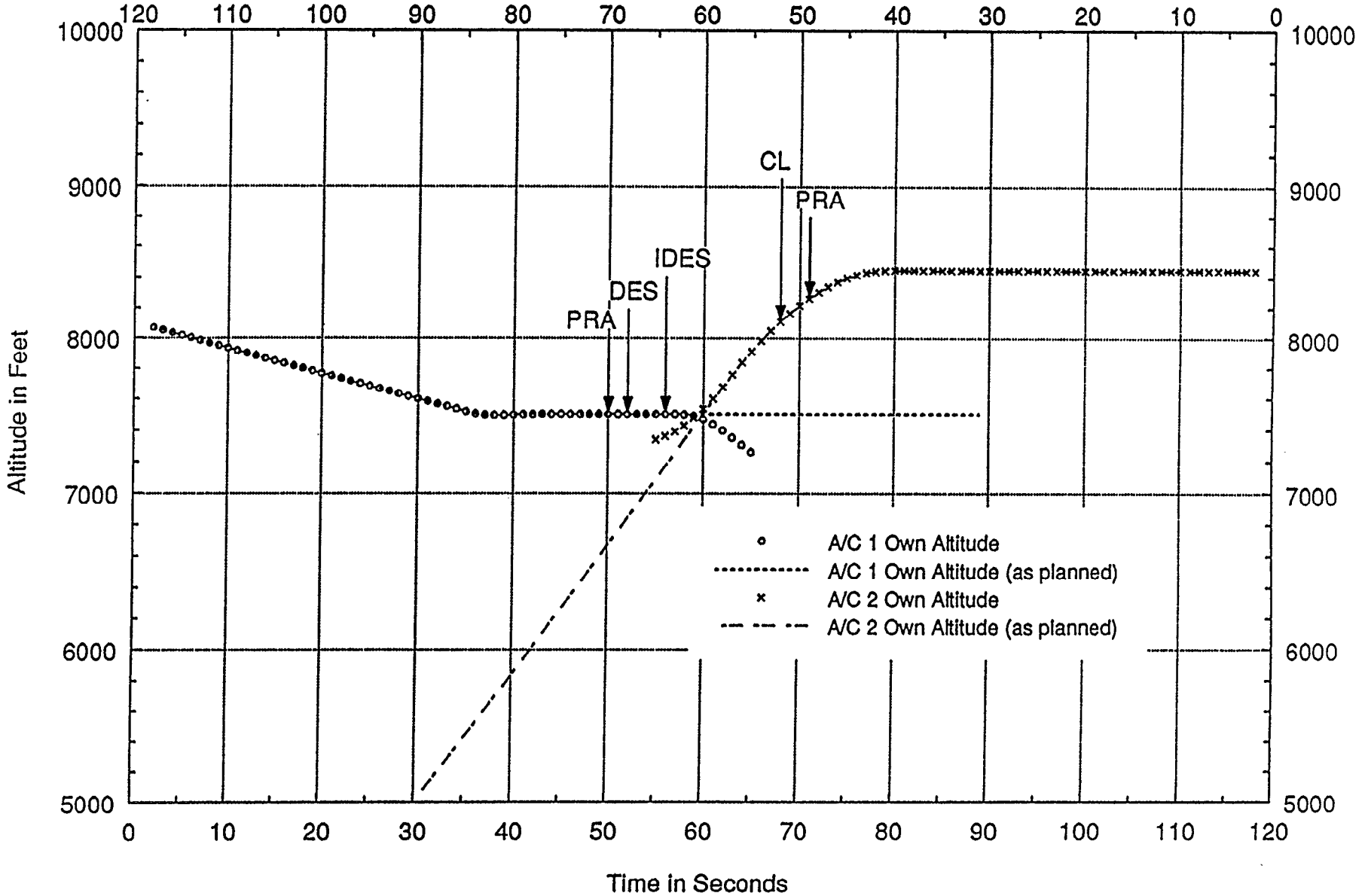
Performance Statistics (relate to whole class)

91% of RAs were non-crossing
96% of NMACs were non-crossing

ENCOUNTER SUMMARY - AIRCRAFT ALTITUDES

Data File Name=LL818YZL.605; REIT Number=8712

SIM MODE:2165044 (Source: LL Composite FTEG Run, Dated 07/29/94)



```
  8712    6.02 RL VS 6.02 RH     8    -248.72     NON_CROSSING_ENCOUNTER
SL =  5  ZTHR =  750.0   TAUR =  25.0   TAUV =  25.0   ALIM = 400.0
    0.0 (-1000.0,0.0)  (0.0,-5000.0)  0.25  -0.15  -25.0  -20.0    7500.0
A/C1: CL818CF,2162022 |PVMD | DES   @50   [NXRA]| IDES  @56
A/C2:CL818EH2,2262122 |TAUV | POTRA @49   (DFD) | CL    @50   [NXRA]

  8712    6.04 RL VS 6.04 RH     8     -82.53     NON_CROSSING_ENCOUNTER
SL =  5  ZTHR =  600.0   TAUR =  25.0   TAUV =  25.0   ALIM = 350.0
    0.0 (-1000.0,0.0)  (0.0,-5000.0)  0.25  -0.15  -25.0  -20.0    7500.0
A/C1: CL8180R,2164033 |TAUV | POTRA @50   (VTT) | DES   @52   [NXRA]| IDES  @56
A/C2:CL8180R2,2264133 |TAUV | POTRA @49   (DFD) | CL    @52   [NXRA]

  8712   6.04A  RL VS 6.04A RH     8     -82.53     NON_CROSSING_ENCOUNTER
SL =  5  ZTHR =  600.0   TAUR =  25.0   TAUV =  25.0   ALIM = 350.0
    0.0 (-1000.0,0.0)  (0.0,-5000.0)  0.25  -0.15  -25.0  -20.0    7500.0
A/C1: CL818WZ,2165044 |TAUV | POTRA @50   (VTT) | DES   @52   [NXRA]| IDES  @56
A/C2:CL818XZ2,2265144 |TAUV | POTRA @49   (DFD) | CL    @52   [NXRA]
```

Mitre encounter Class : 8 Reit number : 8712

NMAC Characterization

64% had pattern shown on attached plot		
100% had planned separation =	0	ft
AC1 rates :	-1000, -3000, -5000	fpm
AC2 rates :	-5000	fpm
AC1 accel :	0.05, 0.15, 0.25	g
AC2 accel :	-0.15, -0.25	g (most -0.15)
AC2 accel time : CPA:	20	sec

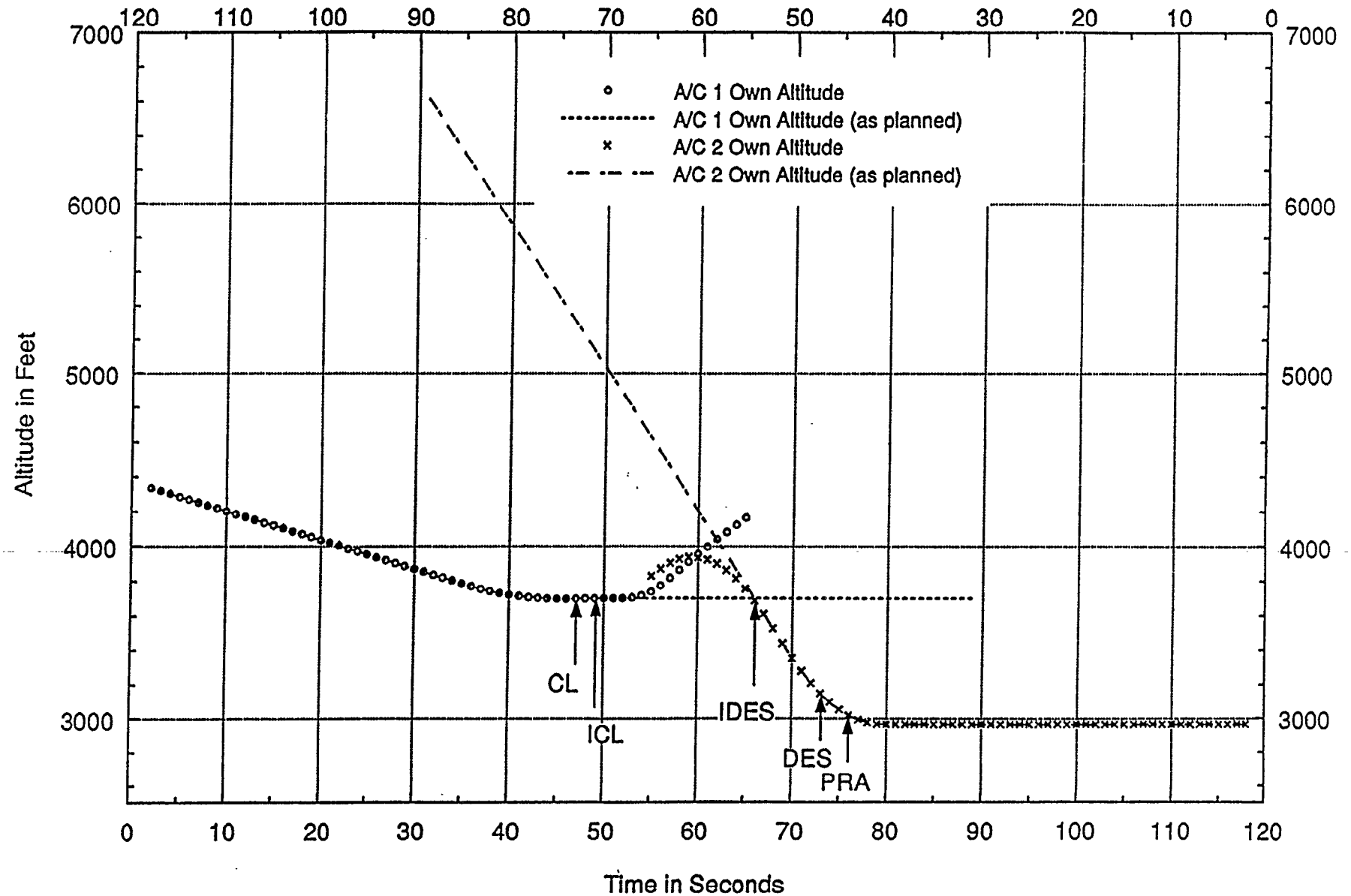
Performance Statistics (relate to whole class)

91% of RAs were non-crossing
96% of NMACs were non-crossing

ENCOUNTER SUMMARY - AIRCRAFT ALTITUDES

Data File Name=LL818YZL.605; REIT Number=1385

SIM MODE:2165044 (Source: LL Composite FTEG Run, Dated 07/29/94)



```
  1385   6.02 RL VS 6.02 RH     8     817.42     NON_CROSSING_ENCOUNTER
SL =  5  ZTHR =  750.0   TAUR =  25.0   TAUV =  25.0   ALIM = 400.0
 -500.0 (-1000.0,0.0)  (0.0,5000.0)  0.05   0.25  -25.0  -20.0     3700.0
A/C1: CL818CF,2162022 |RELZ | LD5   @38   [NXRA]| DDES  @45          | CL    @48
A/C2:CL818EH2,2262122 |RELZ | DCL   @40   [NXRA]| DES   @41          | DCL   @51

  1385   6.04 RL VS 6.04 RH     8      39.36     CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
 -500.0 (-1000.0,0.0)  (0.0,5000.0)  0.05   0.25  -25.0  -20.0     3700.0
A/C1: CL818OR,2164033 |RELZ | CL    @47   [NXRA]| ICL   @49
A/C2:CL818OR2,2264133 |TAUV | POTRA @44   (DFD) | DES   @47   [NXRA]| IDES  @54

  1385   6.04A  RL VS 6.04A RH     8      39.36     CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
 -500.0 (-1000.0,0.0)  (0.0,5000.0)  0.05   0.25  -25.0  -20.0     3700.0
A/C1: CL818WZ,2165044 |RELZ | CL    @47   [NXRA]| ICL   @49
A/C2:CL818XZ2,2265144 |TAUV | POTRA @44   (DFD) | DES   @47   [NXRA]| IDES  @54
```

Mitre encounter Class : 8 Reit number : 1385

NMAC Characterization

15% had pattern shown on attached plot		
planned separation =	-250, -500	ft
AC1 rates :	(80%) -1000, (20%) -3000	fpm
AC2 rates :	5000	fpm
AC1 accel :	0.05, 0.15, 0.25	g (evenly distributed)
AC2 accel :	0.15, 0.25, 0.35	g (evenly distributed)
AC2 accel time : CPA:	(93%) 20 or (7%) 25	sec

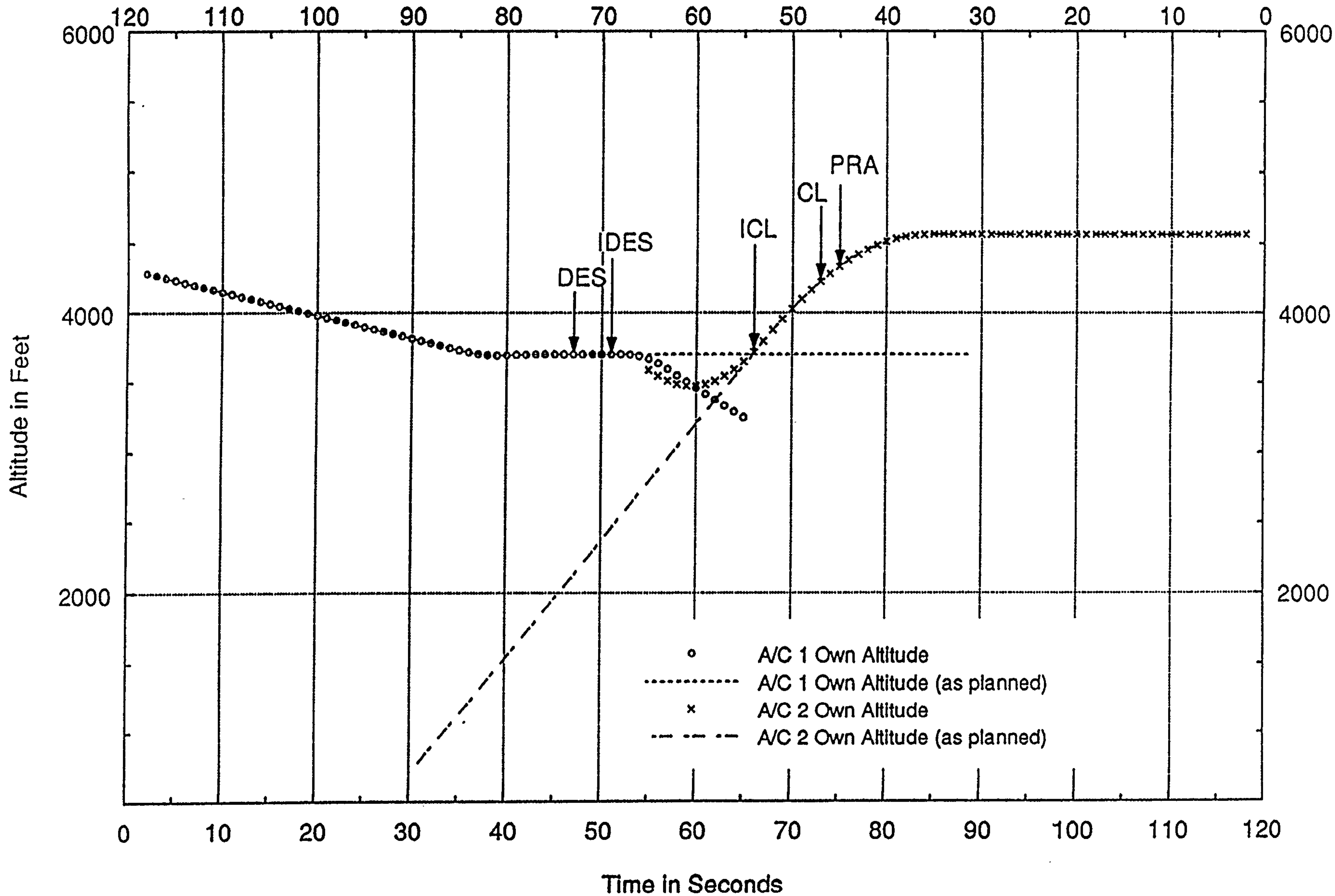
Performance Statistics (relate to whole class)

91% of RAs were non-crossing
96% of NMACs were non-crossing

ENCOUNTER SUMMARY - AIRCRAFT ALTITUDES

Data File Name=LL818YZL.605; REIT Number=2655

SIM MODE:2165044 (Source: LL Composite FTEG Run, Dated 07/29/94)



```
  2655    6.02 RL VS 6.02 RH     8    -508.13     NON_CROSSING_ENCOUNTER
SL =  5  ZTHR =  750.0   TAUR =  25.0   TAUV =  25.0   ALIM = 400.0
  500.0 (-1000.0,0.0)  (0.0,-5000.0)  0.15  -0.15  -25.0  -25.0     3700.0
A/C1: CL818CF,2162022 |RELZ | DES   @42   [NXRA]| IDES  @52
A/C2;CL818EH2,2262122 |RELZ | DDES  @44   [NXRA]| CL    @45

  2655    6.04 RL VS 6.04 RH     8     -38.78     CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
  500.0 (-1000.0,0.0)  (0.0,-5000.0)  0.15  -0.15  -25.0  -25.0     3700.0
A/C1: CL8180R,2164033 |RELZ | DES   @47   [NXRA]| IDES  @51
A/C2:CL8180R2,2264133 |TAUV | POTRA @45   (DFD) | CL    @47   [NXRA]| ICL   @54

  2655    6.04A  RL VS 6.04A RH     8     -38.78     CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
  500.0 (-1000.0,0.0)  (0.0,-5000.0)  0.15  -0.15  -25.0  -25.0     3700.0
A/C1: CL818WZ,2165044 |RELZ | DES   @47   [NXRA]| IDES  @51
A/C2:CL818XZ2,2265144 |TAUV | POTRA @45   (DFD) | CL    @47   [NXRA]| ICL   @54
```

Mitre encounter Class : 8 Reit number : 2655

NMAC Characterization

80% had pattern shown on attached plot		
planned separation =	-500, -750	ft
AC1 rates :	<= -1000	fpm
AC2 rates :	<= -3000	fpm
AC1 accel :	0.05, 0.15, 0.25	g
AC2 accel :	-0.15, -0.25, -0.35	g
AC2 accel time : CPA:	(67%) 20, (22%) 25, (11%) 30	sec

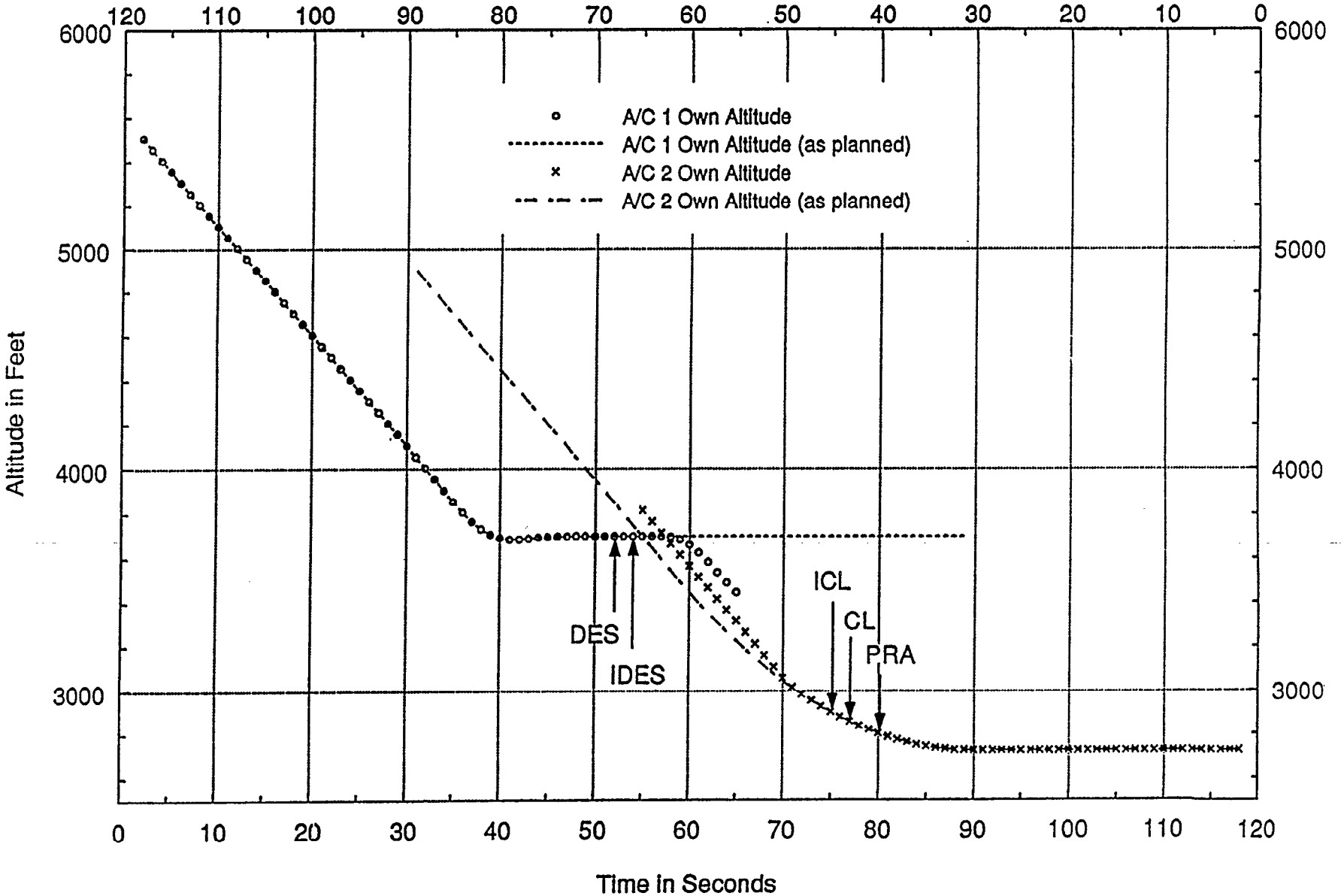
Performance Statistics (relate to whole class)

91% of RAs were non-crossing
96% of NMACs were non-crossing

ENCOUNTER SUMMARY - AIRCRAFT ALTITUDES

Data File Name=LL818YZL.605; REIT Number=3615

SIM MODE:2165044 (Source: LL Composite FTEG Run, Dated 07/29/94)



```
  3615   6.02 RL VS 6.02 RH     8     822.04     NON_CROSSING_ENCOUNTER
SL =  5  ZTHR =  750.0   TAUR =  25.0   TAUV =  25.0   ALIM = 400.0
  250.0 (-3000.0,0.0)  (0.0,3000.0)  0.25   0.05  -25.0  -30.0     3700.0
A/C1: CL818CF,2162022 |TAUR | LD1   @34   [NXRA]| LD2   @47
A/C2:CL818EH2,2262122 |TAUR | POTRA @34   (LVW) | DES   @35   [NXRA]| LC1   @45
                            | LC2   @55

  3615   6.04 RL VS 6.04 RH     8      82.28     CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
  250.0 (-3000.0,0.0)  (0.0,3000.0)  0.25   0.05  -25.0  -30.0     3700.0
A/C1: CL818OR,2164033 |RELZ | DES   @52   [XRA] | IDES  @54
A/C2:CL818OR2,2264133 |TAUR | POTRA @40   (DFD) | CL    @43   [XRA] | ICL   @45

  3615   6.04A  RL VS 6.04A RH     8      82.28     CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
  250.0 (-3000.0,0.0)  (0.0,3000.0)  0.25   0.05  -25.0  -30.0     3700.0
A/C1: CL818WZ,2165044 |RELZ | DES   @52   [XRA] | IDES  @54
A/C2:CL818XZ2,2265144 |TAUR | POTRA @40   (DFD) | CL    @43   [XRA] | ICL   @45
```

Mitre encounter Class : 8 Reit number : 3615

NMAC Characterization

2% had pattern shown on attached plot		
100% had planned separation =	250	ft
AC1 rates :	-3000	fpm
AC2 rates :	3000, 5000	fpm
AC1 accel :	0.15, 0.25	g
AC2 accel :	0.05	g
AC2 accel time : CPA:	30	sec

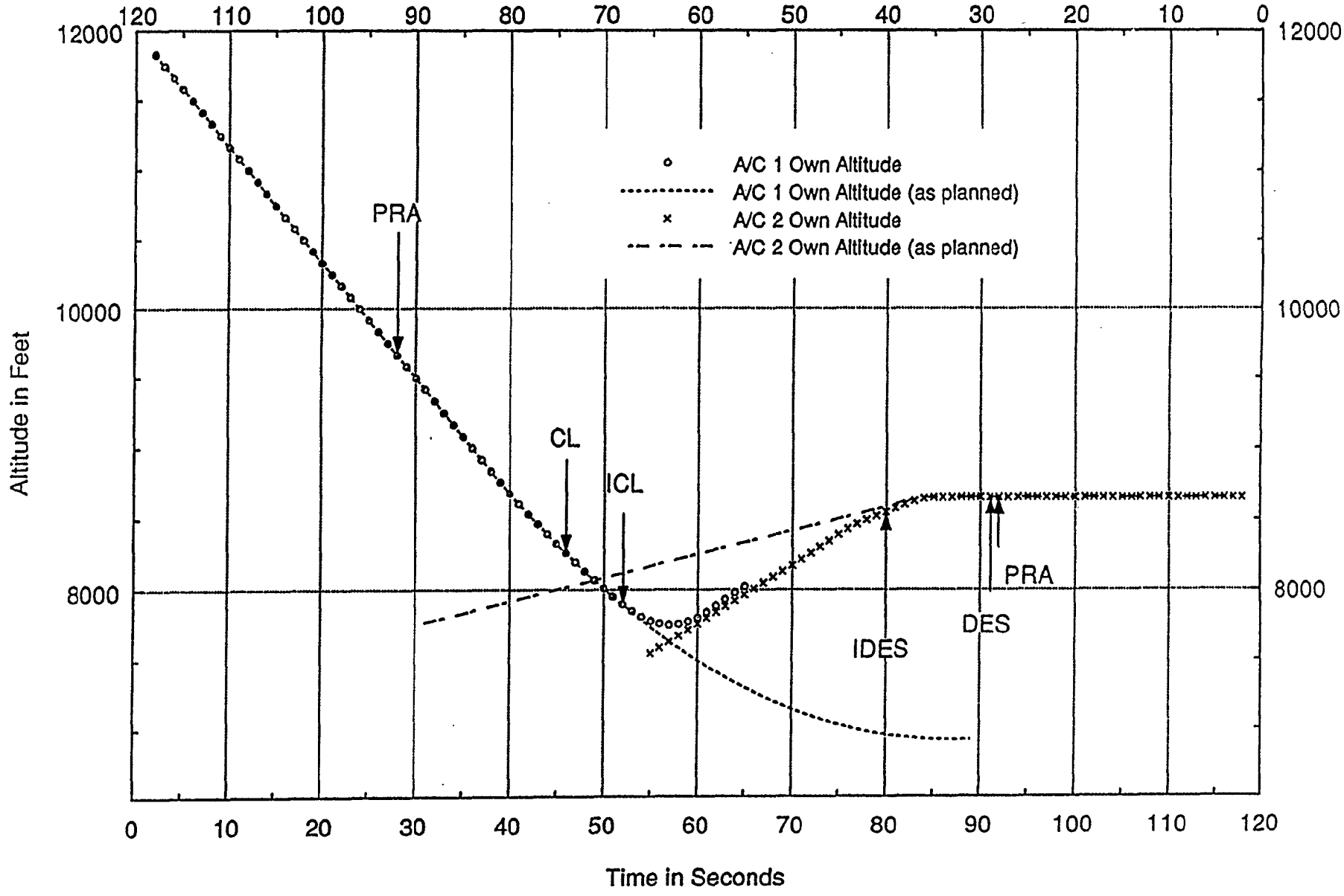
Performance Statistics (relate to whole class)

91% of RAs were non-crossing
96% of NMACs were non-crossing

ENCOUNTER SUMMARY - AIRCRAFT ALTITUDES

Data File Name=LL818YZH.605; REIT Number=4970

SIM MODE:2165144 (Source: LL Composite FTEG Run, Dated 07/29/94)



```
  4970    6.02 RH VS 6.02 RL     8    -767.67     CROSSING_ENCOUNTER
SL =  5  ZTHR =  750.0   TAUR =  25.0   TAUV =  25.0   ALIM = 400.0
 -750.0 (-5000.0,0.0)  (0.0,-1000.0)  0.05  -0.35  -25.0  -25.0     7500.0
A/C1: CL818CF,2162122 |PVMD | POTRA @50   (DFD) | MDES  @53   [NXRA]| DES   @61
A/C2:CL818EH2,2262022 |PVMD | LD2   @52   [NXRA]

  4970    6.04 RH VS 6.04 RL     8    -749.99     CROSSING_ENCOUNTER
SL =  5  ZTHR =  750.0   TAUR =  25.0   TAUV =  25.0   ALIM = 400.0
 -750.0 (-5000.0,0.0)  (0.0,-1000.0)  0.05  -0.35  -25.0  -25.0     7500.0
A/C1: CL818OR,2164133 NO RAs
A/C2:CL818OR2,2264033 NO RAs

  4970    6.04A  RH VS 6.04A RL     8      62.99     CROSSING_ENCOUNTER
SL =  6  ZTHR =  600.0   TAUR =  30.0   TAUV =  30.0   ALIM = 400.0
 -750.0 (-5000.0,0.0)  (0.0,-1000.0)  0.05  -0.35  -25.0  -25.0     7500.0
A/C1: CL818WZ,2165144 |TAUR | POTRA @28   (DFD) | CL    @46   [NXRA]| ICL   @52
A/C2:CL818XZ2,2265044 |TAUR | POTRA @28   (LVW) | DES   @29   [NXRA]| IDES  @40
```

Mitre encounter Class : 8 Reit number : 4970

NMAC Characterization

3% had pattern shown on attached plot		
100% had planned separation =	-750	ft
AC1 rates :	-5000	fpm
AC2 rates :	-1000	fpm
AC1 accel :	0.05	g
AC2 accel :	-0.15, -0.25, -0.35	g
AC2 accel time : CPA:	(40%) 25, (60%) 30	sec

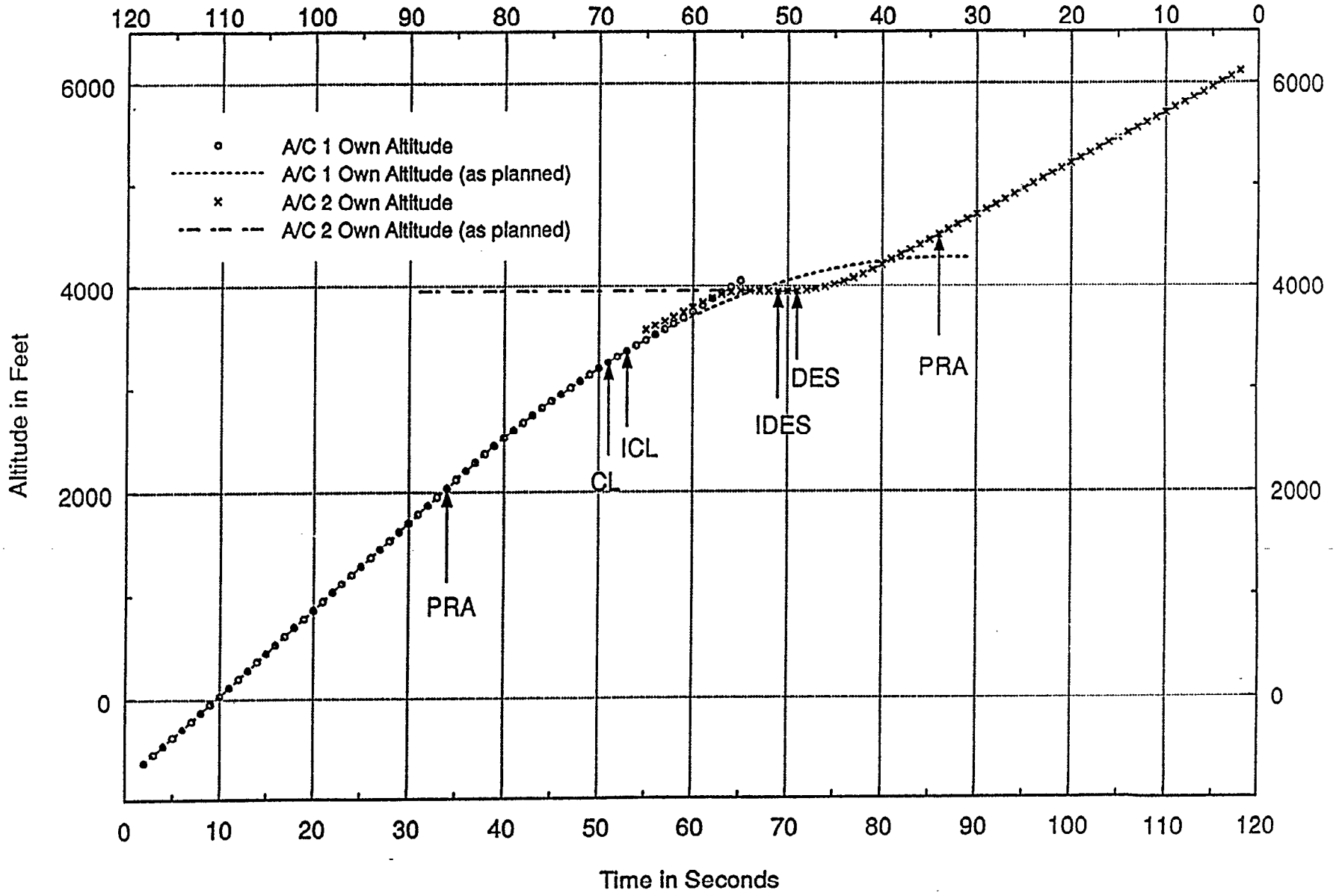
Performance Statistics (relate to whole class)

91% of RAs were non-crossing
96% of NMACs were non-crossing

ENCOUNTER SUMMARY - AIRCRAFT ALTITUDES

Data File Name=LL919YZH.605; REIT Number=1509

SIM MODE:2165144 (Source: LL Composite FTEG Run, Dated 07/29/94)



```
  1509    6.02 RH VS 6.02 RL     9     898.37.    CROSSING_ENCOUNTER
SL =  5  ZTHR =  750.0   TAUR =  25.0   TAUV =  25.0   ALIM = 400.0
 -250.0 (5000.0,0.0)  (-3000.0,0.0) -0.05   0.15  -25.0  -20.0    3700.0
A/C1: CL919CF,2162122 |PVMD | CL    @38   [XRA] | LD2   @57
A/C2:CL919EH2,2262022 |PVMD | DES   @35   [XRA] | IDES  @54


  1509    6.04 RH VS 6.04 RL     9     312.08     CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
 -250.0 (5000.0,0.0)  (-3000.0,0.0) -0.05   0.15  -25.0  -20.0    3700.0
A/C1: CL919OR,2164133 |PVMD | CL    @45   [XRA] | ICL   @47         | CL    @57
A/C2:CL919OR2,2264033 |PVMD | DES   @44   [XRA] | IDES  @50


  1509    6.04A  RH VS 6.04A RL     9     -27.82     CROSSING_ENCOUNTER
SL =  5  ZTHR =  600.0   TAUR =  25.0   TAUV =  25.0   ALIM = 300.0
 -250.0 (5000.0,0.0)  (-3000.0,0.0) -0.05   0.15  -25.0  -20.0    3700.0
A/C1: CL919WZ,2165144 |TAUR | POTRA @34   (DFD) | CL    @51   [XRA] | ICL   @53
A/C2:CL919YZ2,2265044 |TAUR | POTRA @34   (6FT) | DES   @49   [XRA] | IDES  @51
```

Mitre encounter Class : 9 Reit number : 1509

NMAC Characterization

78% had pattern shown on attached plot		
100% had planned separation =	250	ft
AC1 rates :	5000	fpm
AC2 rates :	(7%) -3000, (93%) -5000	fpm
AC1 accel :	-0.05, -0.15	g
AC2 accel :	0.05, 0.15, 0.25, 0.35	g
AC2 accel time : CPA:	(50%) 20, (29%) 25, (21%) 30	sec

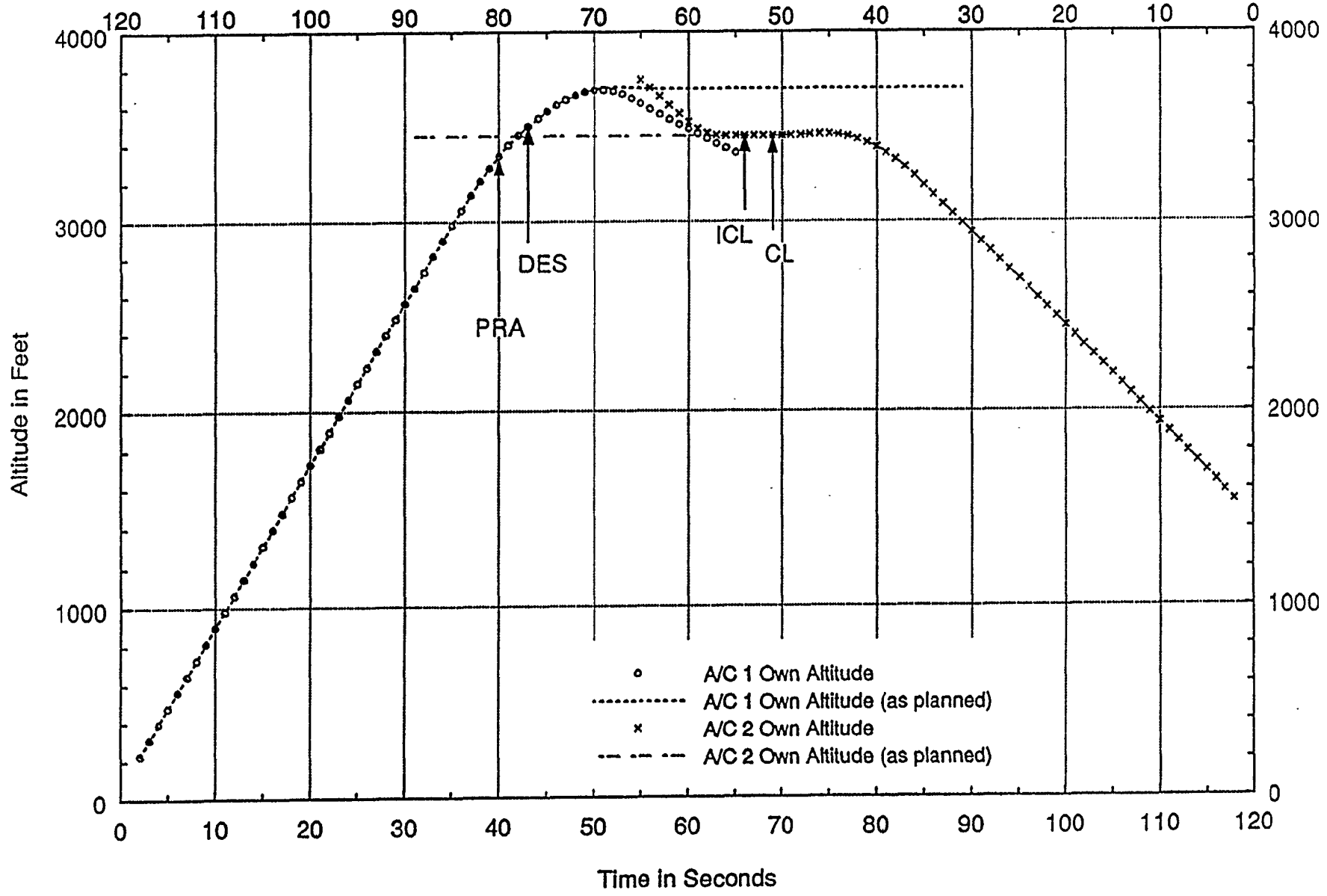
Performance Statistics (relate to whole class)

70% of RAs were non-crossing.
17% of NMACs were non-crossing

ENCOUNTER SUMMARY - AIRCRAFT ALTITUDES

Data File Name=LL919YZH.605; REIT Number=3523

SIM MODE:2165144 (Source: LL Composite FTEG Run, Dated 07/29/94)



```
  3523   6.02 RH VS 6.02 RL    9   -779.19    NON_CROSSING_ENCOUNTER
SL =  5  ZTHR =  750.0   TAUR =  25.0   TAUV =  25.0   ALIM = 400.0
  250.0 (5000.0,0.0)  (3000.0,0.0) -0.15  -0.15  -25.0  -25.0    3700.0
A/C1: CL919CF,2162122 |TAUR | POTRA @34   (DFD) | DES   @35   [NXRA]| LC1   @52
A/C2:CL919EH2,2262022 |TAUR | MCL   @34   [NXRA]| CL    @39         | ICL   @40
                          | LD1   @54
```

```
  3523   6.04 RH VS 6.04 RL    9    -54.29    CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
  250.0 (5000.0,0.0)  (3000.0,0.0) -0.15  -0.15  -25.0  -25.0    3700.0
A/C1: CL9190R,2164133 |TAUR | POTRA @40   (DFD) | DES   @43   [NXRA]
A/C2:CL9190R2,2264033 |PVMD | CL    @51   [XRA] | ICL   @54
```

```
  3523   6.04A  RH VS 6.04A RL    9    -54.29    CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
  250.0 (5000.0,0.0)  (3000.0,0.0) -0.15  -0.15  -25.0  -25.0    3700.0
A/C1: CL919WZ,2165144 |TAUR | POTRA @40   (DFD) | DES   @43   [NXRA]
A/C2:CL919YZ2,2265044 |PVMD | CL    @51   [XRA] | ICL   @54
```

Mitre encounter Class : 9 Reit number : 3523

NMAC Characterization

22% had pattern shown on attached plot		
planned separation =	250, +/- 500, 1000	ft
AC1 rates :	1000, 5000	fpm
AC2 rates :	3000, 5000	fpm
AC1 accel :	-0.05, -0.15	g
AC2 accel :	-0.05, -0.15, -0.25, -0.35	g
AC2 accel time : CPA:	25	sec

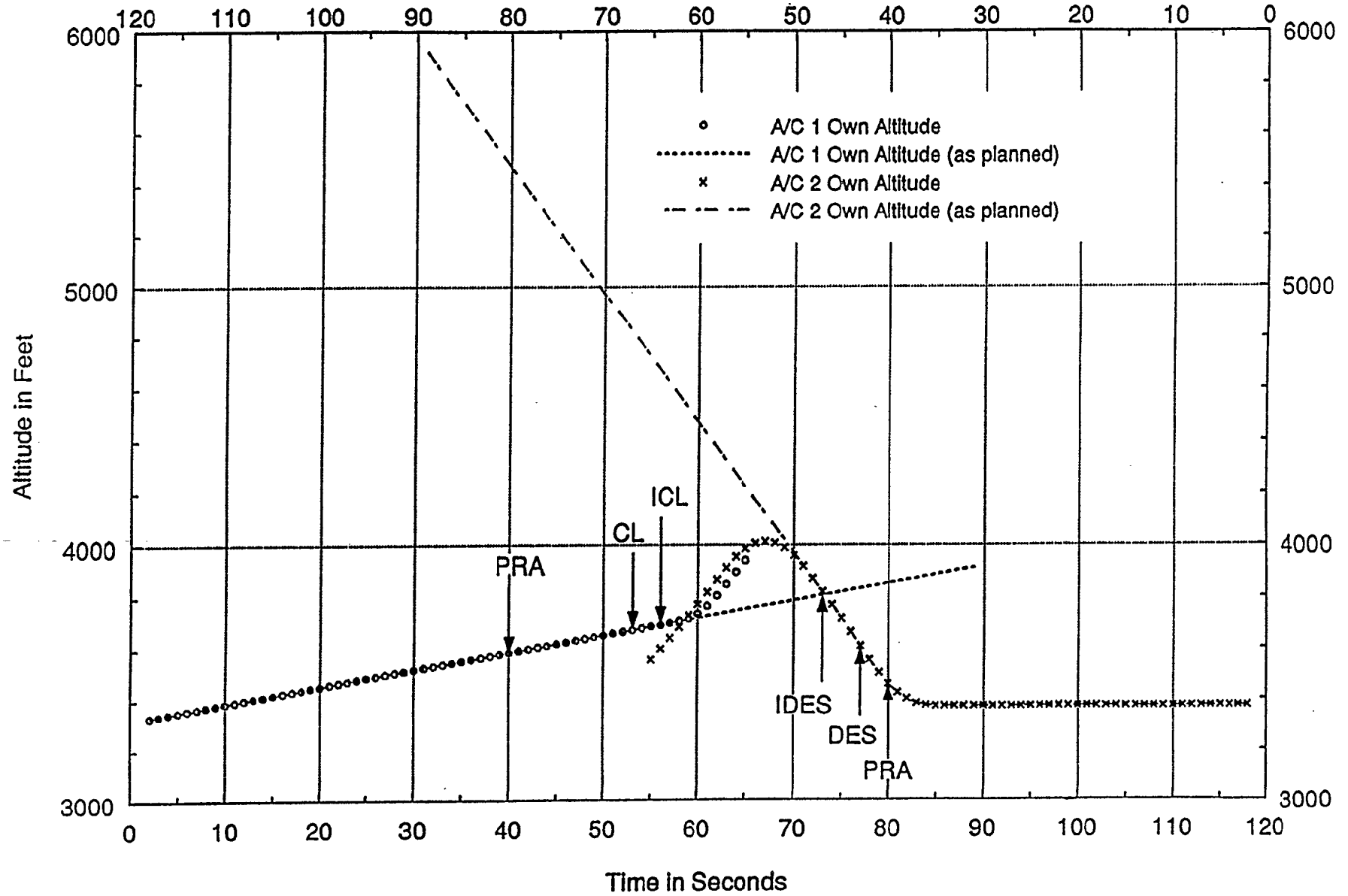
Performance Statistics (relate to whole class)

70% of RAs were non-crossing
17% of NMACs were non-crossing

ENCOUNTER SUMMARY - AIRCRAFT ALTITUDES

Data File Name=LL212OZL.605; REIT Number=1421

SIM MODE:2165044 (Source: LL Composite FTEG Run, Dated 07/29/94)



```
  1421   6.02 RL VS 6.02 RH     12     674.97     NON_CROSSING_ENCOUNTER
SL =  5  ZTHR =  750.0   TAUR =  25.0   TAUV =  25.0   ALIM = 400.0
 -750.0 ( 400.0, 400.0)  (0.0,3000.0)  0.00   0.25     0.0  -25.0     3720.0
A/C1: CL212CH,2162022 |TAUR | CL    @34   [NXRA]| LD1   @51
A/C2:CL212EJ2,2262122 |TAUR | DES   @34   [NXRA]| LC1   @51

  1421   6.04 RL VS 6.04 RH     12     -25.63     NON_CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
 -750.0 ( 400.0, 400.0)  (0.0,3000.0)  0.00   0.25     0.0  -25.0     3720.0
A/C1: CL212OT,2164033 |TAUR | POTRA @40   (FRM) | CL    @53   [XRA] | ICL   @56
A/C2:CL212MR2,2264133 |TAUR | POTRA @40   (DFD) | DES   @43   [NXRA]| IDES  @47

  1421   6.04A  RL VS 6.04A RH     12     -25.63     NON_CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
 -750.0 ( 400.0, 400.0)  (0.0,3000.0)  0.00   0.25     0.0  -25.0     3720.0
A/C1: CL212UZ,2165044 |TAUR | POTRA @40   (FRM) | CL    @53   [XRA] | ICL   @56
A/C2:CL212UZ2,2265144 |TAUR | POTRA @40   (DFD) | DES   @43   [NXRA]| IDES  @47
```

Mitre encounter Class : 12 Reit number : 1421

NMAC Characterization

100% had pattern shown on attached plot		
100% had planned separation =	750	ft
AC1 rates :	400	fpm
AC2 rates :	3000	fpm
AC1 accel :	0.0	g
AC2 accel :	0.25	g
AC2 accel time : CPA:	25	sec

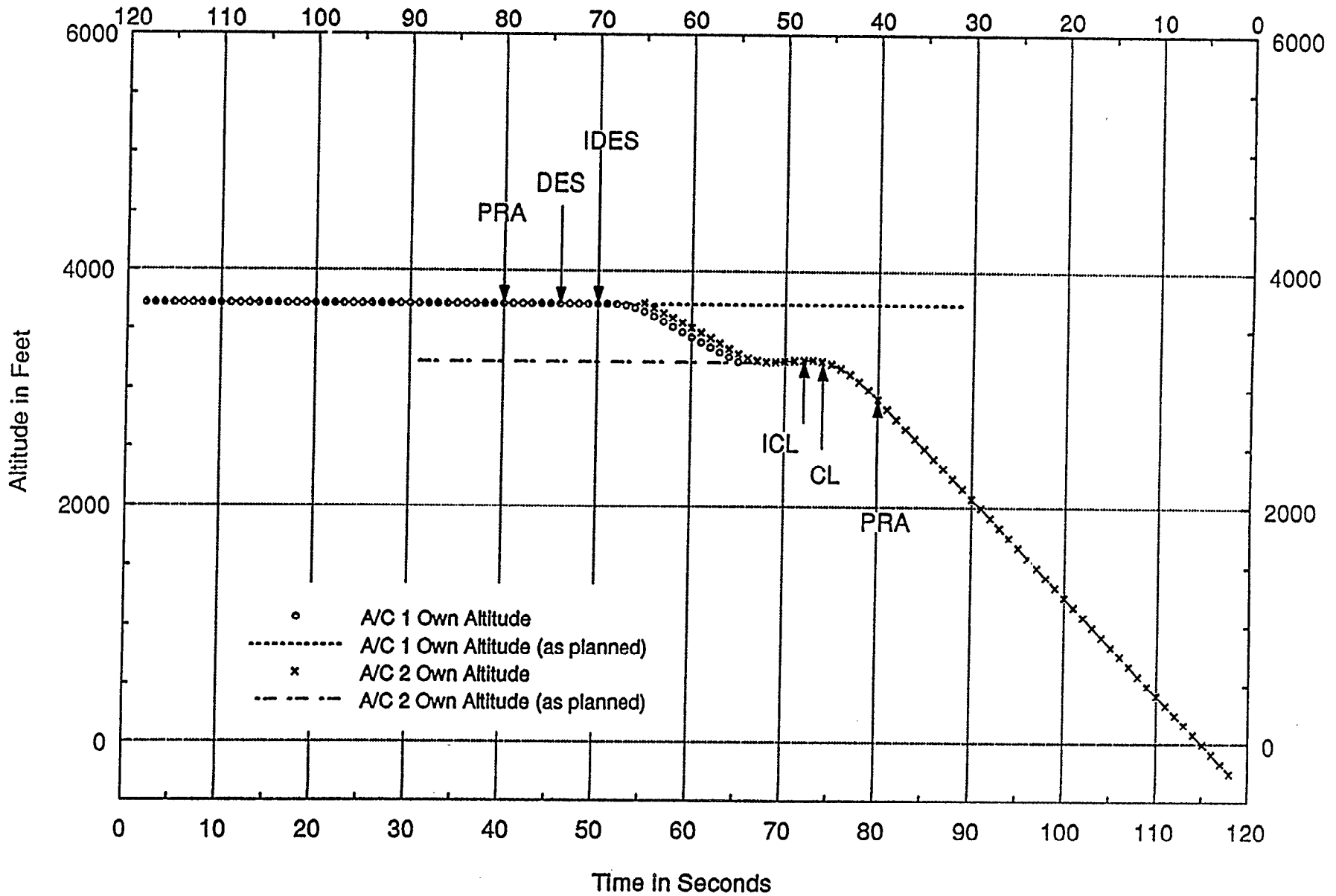
Performance Statistics (relate to whole class)

99% of RAs were non-crossing
50% of NMACs were non-crossing

ENCOUNTER SUMMARY - AIRCRAFT ALTITUDES

Data File Name=LL313SZL.605; REIT Number=1614

SIM MODE:2165044 (Source: LL Composite FTEG Run, Dated 07/29/94)



```
  1614    6.02 RL VS 6.02 RH     13    -268.81     CROSSING_ENCOUNTER
SL =  5  ZTHR =  750.0   TAUR =  25.0   TAUV =  25.0   ALIM = 400.0
  500.0 (0.0,0.0)   (5000.0,0.0)  0.00  -0.35     0.0  -20.0     3720.0
A/C1: CL313CG,2162022 |TAUR | POTRA @34    (LVW) | LC1    @42    [XRA] | LC5    @44
                            | DES   @46          | IDES  @55
A/C2:CL313EH2,2262122 |PVMD | POTRA @40    (DFD) | CL     @42    [XRA] | ICL    @45

  1614    6.04 RL VS 6.04 RH     13     -85.07     CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
  500.0 (0.0,0.0)   (5000.0,0.0)  0.00  -0.35     0.0  -20.0     3720.0
A/C1: CL313MQ,2164033 |PVMD | DES   @46    [XRA] | IDES  @50
A/C2:CL313OR2,2264133 |PVMD | POTRA @43    (DFD) | CL     @46    [XRA] | ICL    @48

  1614   6.04A RL VS 6.04A RH     13     -85.07     CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
  500.0 (0.0,0.0)   (5000.0,0.0)  0.00  -0.35     0.0  -20.0     3720.0
A/C1: CL313WZ,2165044 |TAUR | POTRA @40    (LVW) | DES   @46    [XRA] | IDES  @50
A/C2:CL313YZ2,2265144 |TAUR | POTRA @40    (6FT) | CL     @46    [XRA] | ICL    @48
```

Mitre encounter Class : 13 Reit number : 1614

NMAC Characterization

100% had pattern shown on attached plot		
100% had planned separation =	500	ft
AC1 rates:	0	fpm
AC2 rates:	5000	fpm
AC1 accel:	0.0	g
AC2 accel:	-0.25, -0.35	g
AC2 accel time CPA:	20	sec

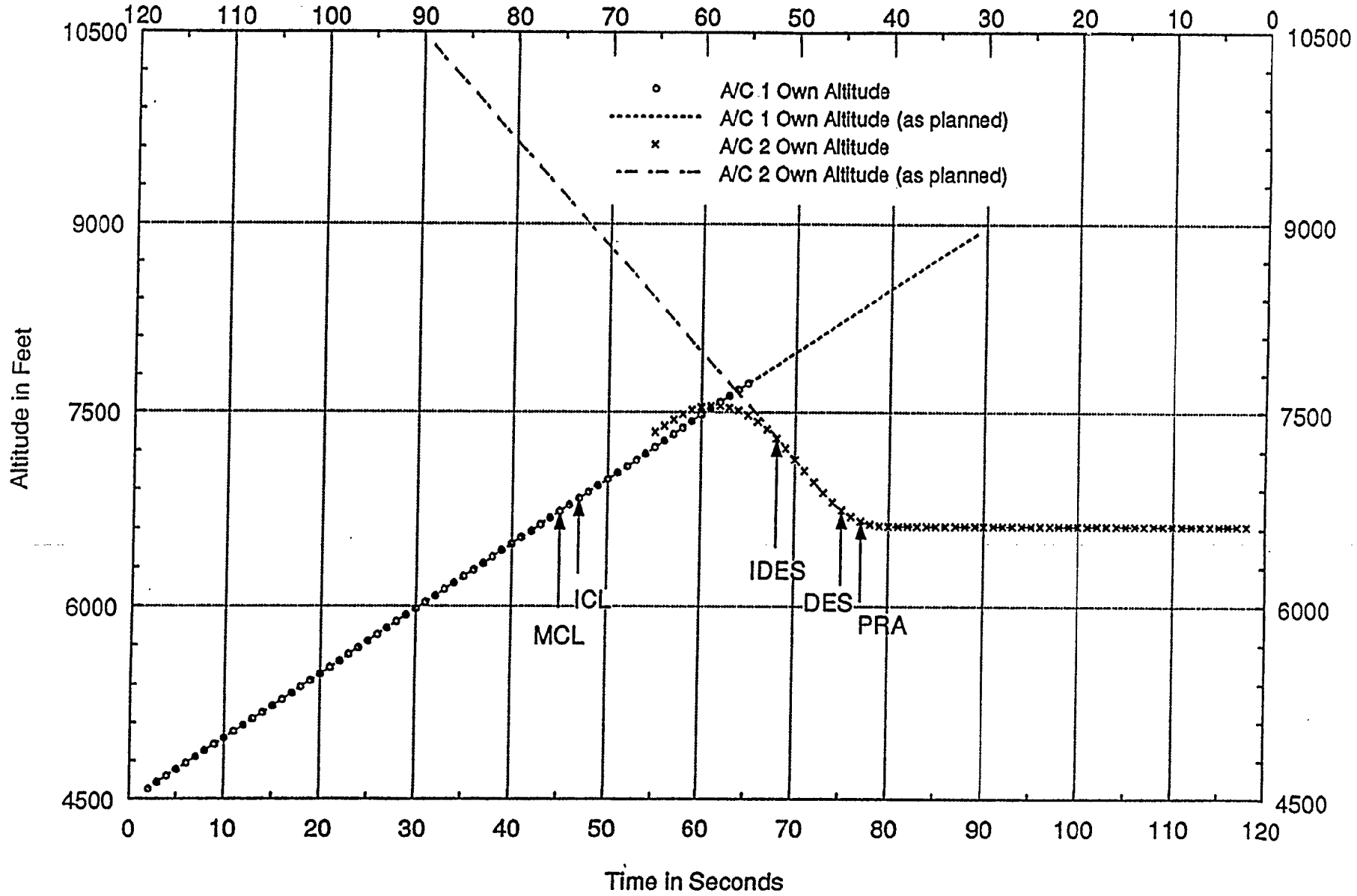
Performance Statistics (relate to whole class)

85% of RAs were non-crossing
0% of NMACs were non-crossing

ENCOUNTER SUMMARY - AIRCRAFT ALTITUDES

Data File Name=LL515WZL.605; REIT Number=4283

SIM MODE:2165044 (Source: LL Composite FTEG Run, Dated 07/29/94)



```
  4283   6.02 RL VS 6.02 RH     15     137.02     CROSSING_ENCOUNTER
SL =  5  ZTHR =  750.0   TAUR =  25.0   TAUV =  25.0   ALIM = 400.0
 -500.0 (3000.0,3000.0)  (0.0,5000.0)  0.00   0.35    0.0  -20.0    7480.0
A/C1: CL515CE,2162022 |PVMD | MCL   @43   [NXRA]| ICL   @45
A/C2:CL515EG2,2262122 |PVMD | POTRA @41   (DFD) | DES   @43   [NXRA]| IDES  @52

  4283   6.04 RL VS 6.04 RH     15     -39.93     CROSSING_ENCOUNTER
SL =  5  ZTHR =  600.0   TAUR =  25.0   TAUV =  25.0   ALIM = 350.0
 -500.0 (3000.0,3000.0)  (0.0,5000.0)  0.00   0.35    0.0  -20.0    7480.0
A/C1: CL515OQ,2164033 |PVMD | MCL   @45   [NXRA]| ICL   @47
A/C2:CL515MO2,2264133 |PVMD | POTRA @43   (DFD) | DES   @45   [NXRA]| IDES  @52

  4283   6.04A  RL VS 6.04A RH     15     -39.93     CROSSING_ENCOUNTER
SL =  5  ZTHR =  600.0   TAUR =  25.0   TAUV =  25.0   ALIM = 350.0
 -500.0 (3000.0,3000.0)  (0.0,5000.0)  0.00   0.35    0.0  -20.0    7480.0
A/C1: CL515XZ,2165044 |PVMD | MCL   @45   [NXRA]| ICL   @47
A/C2:CL515XZ2,2265144 |PVMD | POTRA @43   (DFD) | DES   @45   [NXRA]| IDES  @52
```

Mitre encounter Class : 15 Reit number : 4283

NMAC Characterization

86% had pattern shown on attached plot		
planned separation	=(16%) -250, (56%) -500, (28%) -750	ft
AC1 rates :	(39%)5000, (61%) 3000	fpm
AC2 rates :	5000	fpm
AC1 accel :	0.0	g
AC2 accel :	(6%) 0.15, (44%) 0.25, (50%) 0.35	g
AC2 accel time : CPA:	(78%) 20, or (22%) 25	sec

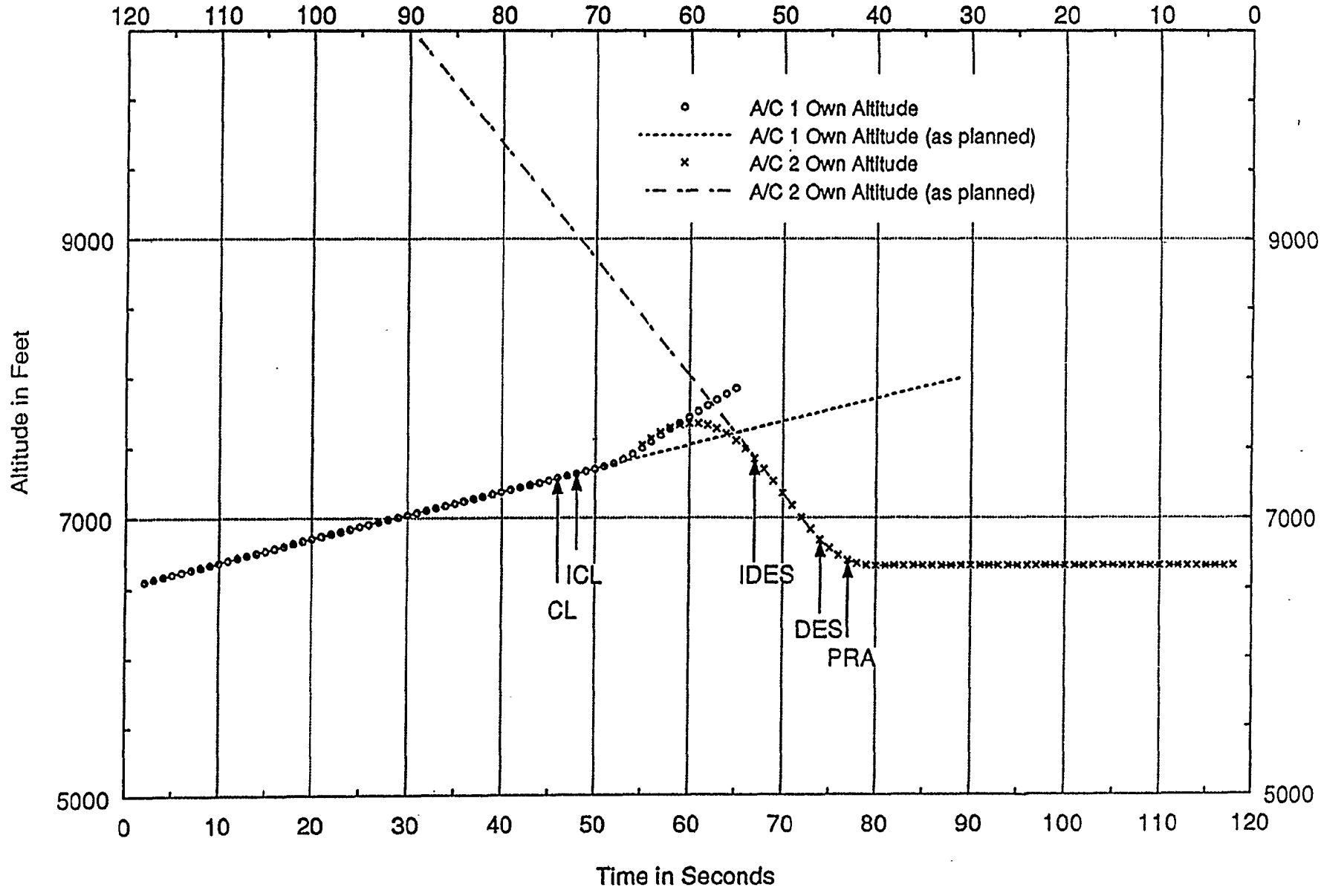
Performance Statistics (relate to whole class)

91% of RAs were non-crossing
40% of NMACs were non-crossing

ENCOUNTER SUMMARY - AIRCRAFT ALTITUDES

Data File Name=LL515WZL.605; REIT Number=5543

SIM MODE:2165044 (Source: LL Composite FTEG Run, Dated 07/29/94)



```
  5543   6.02 RL VS 6.02 RH    15    248.33    NON_CROSSING_ENCOUNTER
SL =  5  ZTHR =  750.0   TAUR =  25.0   TAUV =  25.0   ALIM = 400.0
 -500.0 (1000.0,1000.0)  (0.0,5000.0)  0.00   0.35    0.0  -20.0    7520.0
A/C1: CL515CE,2162022 |PVMD | CL    @44   [NXRA]| ICL   @46
A/C2:CL515EG2,2262122 |PVMD | POTRA @42   (DFD) | DES   @44   [NXRA]| IDES  @55

  5543   6.04 RL VS 6.04 RH    15     63.21    CROSSING_ENCOUNTER
SL =  5  ZTHR =  600.0   TAUR =  25.0   TAUV =  25.0   ALIM = 350.0
 -500.0 (1000.0,1000.0)  (0.0,5000.0)  0.00   0.35    0.0  -20.0    7520.0
A/C1: CL5150Q,2164033 |PVMD | CL    @46   [NXRA]| ICL   @48
A/C2:CL515MO2,2264133 |PVMD | POTRA @43   (DFD) | DES   @46   [NXRA]| IDES  @53

  5543   6.04A  RL VS 6.04A RH    15     63.21    CROSSING_ENCOUNTER
SL =  5  ZTHR =  600.0   TAUR =  25.0   TAUV =  25.0   ALIM = 350.0
 -500.0 (1000.0,1000.0)  (0.0,5000.0)  0.00   0.35    0.0  -20.0    7520.0
A/C1: CL515XZ,2165044 |PVMD | CL    @46   [NXRA]| ICL   @48
A/C2:CL515XZ2,2265144 |PVMD | POTRA @43   (DFD) | DES   @46   [NXRA]| IDES  @53
```

Mitre encounter Class : 15 Reit number : 5543

NMAC Characterization

14% had pattern shown on attached plot		
100% had planned separation =	-500	ft
AC1 rates :	1000	fpm
AC2 rates :	5000	fpm
AC1 accel :	0.0	g
AC2 accel :	0.25, 0.35	g
AC2 accel time : CPA:	20	sec

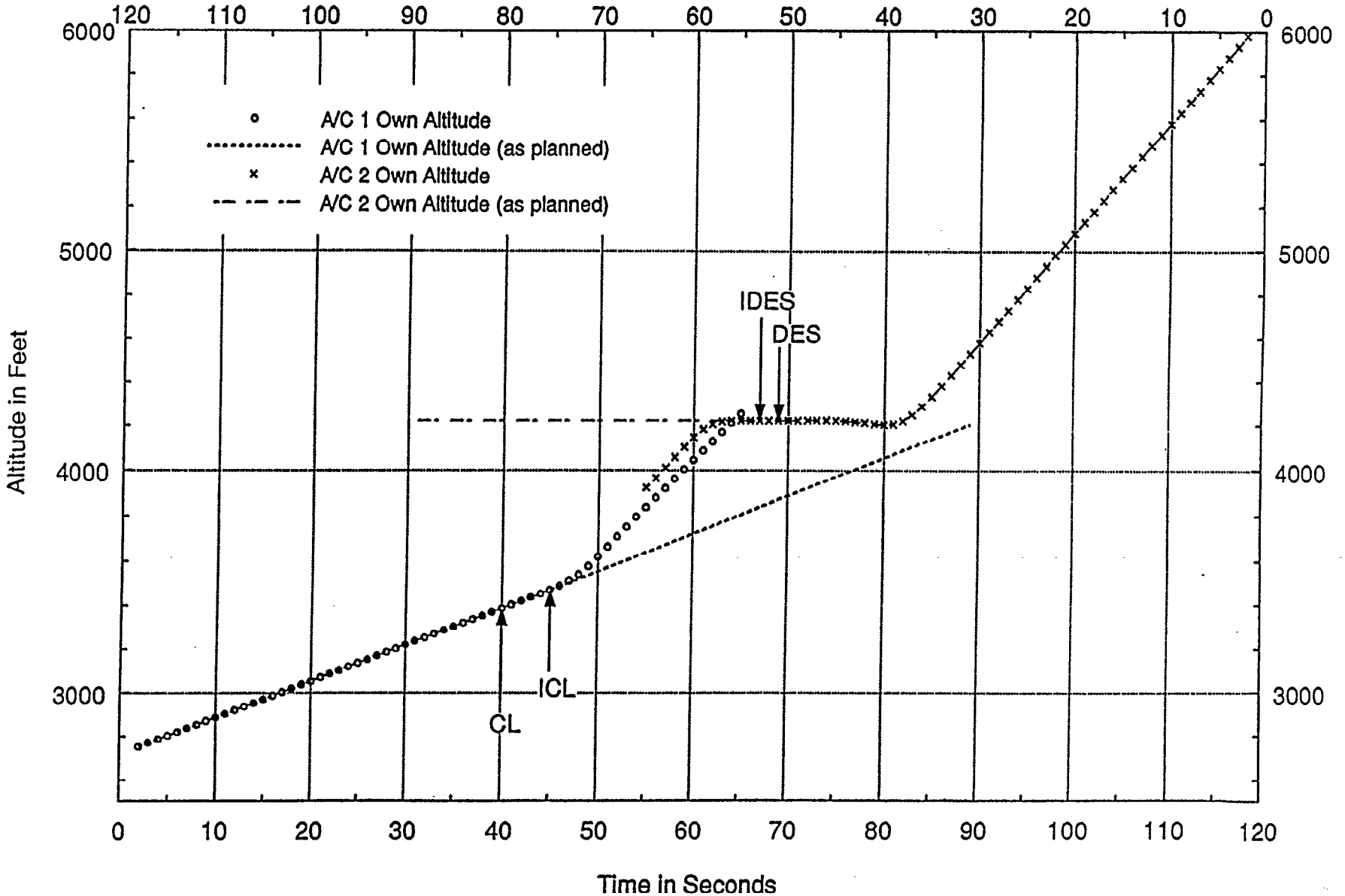
Performance Statistics (relate to whole class)

91% of RAs were non-crossing
40% of NMACs were non-crossing

ENCOUNTER SUMMARY - AIRCRAFT ALTITUDES

Data File Name=LL616WZL.605; REIT Number=2491

SIM MODE:2165044 (Source: LL Composite FTEG Run, Dated 07/29/94)



```
  2491    6.02 RL VS 6.02 RH     16     534.63     CROSSING_ENCOUNTER
SL =  5  ZTHR =  750.0   TAUR =  25.0   TAUV =  25.0   ALIM = 400.0
 -500.0 (1000.0,1000.0)  (-3000.0,0.0)  0.00   0.35    0.0  -25.0    3720.0
A/C1: CL616CE,2162022 |TAUR | CL    @34   [XRA] | ICL   @53
A/C2:,CL616EG2,2262122 |TAUR | DES   @34   [XRA] | IDES  @40

  2491    6.04 RL VS 6.04 RH     16     -85.41     CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
 -500.0 (1000.0,1000.0)  (-3000.0,0.0)  0.00   0.35    0.0  -25.0    3720.0
A/C1: CL6160Q,2164033 |TAUR | CL    @40   [XRA] | ICL   @45
A/C2:CL616MO2,2264133 |RELZ | DES   @51   [XRA] | IDES  @53

  2491    6.04A  RL VS 6.04A RH     16     -85.41     CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
 -500.0 (1000.0,1000.0)  (-3000.0,0.0)  0.00   0.35    0.0  -25.0    3720.0
A/C1: CL616XZ,2165044 |TAUR | CL    @40   [XRA] | ICL   @45
A/C2:CL616XZ2,2265144 |RELZ | DES   @51   [XRA] | IDES  @53
```

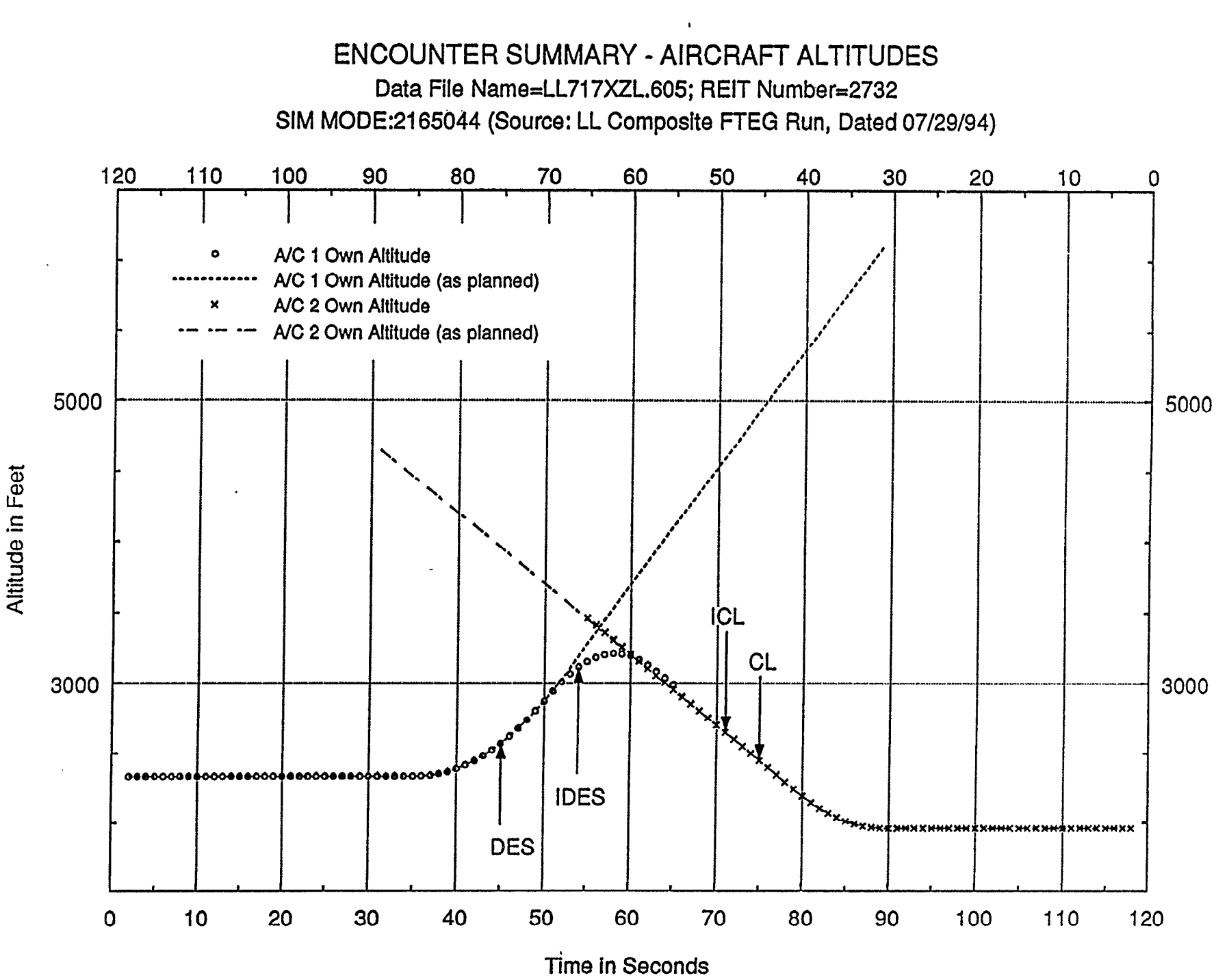
Mitre encounter Class : 16 Reit number : 2491

NMAC Characterization

100% had pattern shown on attached plot		
100% had planned separation =	-500	ft
AC1 rates :	1000	fpm
AC2 rates :	-3000	fpm
AC1 accel :	0.0	g
AC2 accel :	0.35	g
AC2 accel time : CPA :	25	sec

Performance Statistics (relate to whole class)

86% of RAs were non-crossing
0% of NMACs were non-crossing


ENCOUNTER SUMMARY - AIRCRAFT ALTITUDES
Data File Name=LL717XZL.605; REIT Number=2732
SIM MODE:2165044 (Source: LL Composite FTEG Run, Dated 07/29/94)
A/C 1 Own Altitude
A/C 1 Own Altitude (as planned)
A/C 2 Own Altitude
A/C 2 Own Altitude (as planned)
ICL
CL
IDES
DES
Altitude in Feet
Time in Seconds
5000
3000
120
110
100
90
80
70
60
50
40
30
20
10
0

```
  2732    6.02 RL VS 6.02 RH     17    -663.91     CROSSING_ENCOUNTER
SL =  4  ZTHR =  750.0   TAUR =  20.0   TAUV =  20.0   ALIM = 400.0
  500.0 (0.0,5000.0)  (0.0,3000.0)  0.15   0.15  -25.0  -30.0     3700.0
A/C1: CL717CF,2162022 |TAUR | LC1   @40   [XRA] | DCL   @42          | DES   @43
A/C2:CL717EF2,2262122 |TAUR | POTRA @40   (FRM) | CL    @41   [XRA] | ICL   @46
                          | MCL   @56

  2732    6.04 RL VS 6.04 RH     17     -33.01     CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
  500.0 (0.0,5000.0)  (0.0,3000.0)  0.15   0.15  -25.0  -30.0     3700.0
A/C1:  CL717O,2164033 |TAUR | DES   @45   [XRA] | IDES  @54
A/C2:CL717OP2,2264133 |TAUR | CL    @45   [XRA] | ICL   @49

  2732    6.04A  RL VS 6.04A RH     17     -33.01     CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
  500.0 (0.0,5000.0)  (0.0,3000.0)  0.15   0.15  -25.0  -30.0     3700.0
A/C1: CL717WZ,2165044 |TAUR | DES   @45   [XRA] | IDES  @54
A/C2:CL717YZ2,2265144 |TAUR | CL    @45   [XRA] | ICL   @49
```

Mitre encounter Class : 17 Reit number : 2732

NMAC Characterization

100% had pattern shown on attached plot		
planned separation =	250, 500	ft
AC1 rates :	5000	fpm
AC2 rates :	3000, 5000	fpm
AC1 accel :	(93%) 0.15, (7%) 0.25	g
AC2 accel :	0.15, 0.25, 0.35	g (evenly distributed)
AC2 accel time : CPA:	25 or 30	sec (evenly distributed)

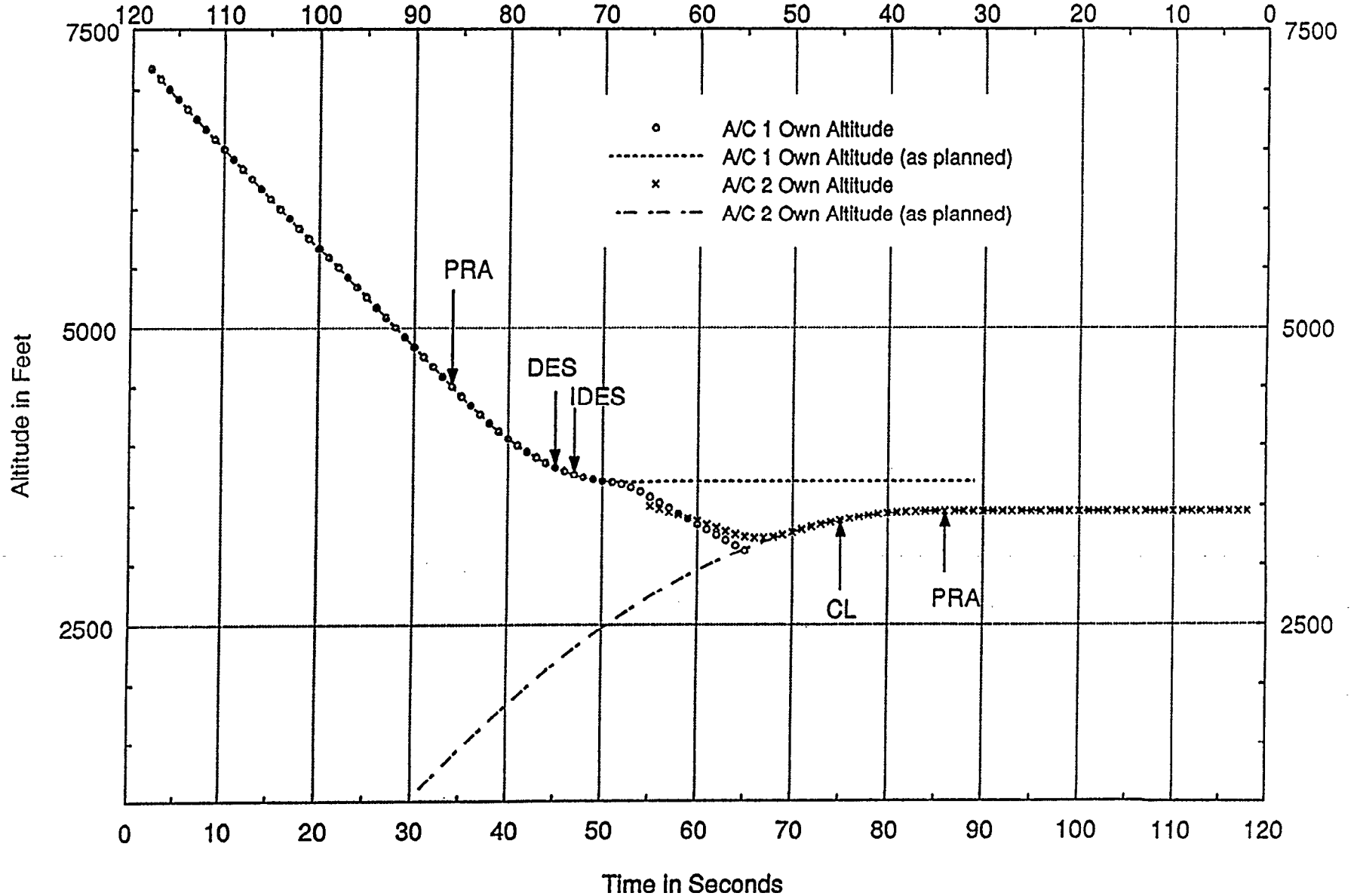
Performance Statistics (relate to whole class)

98% of RAs were non-crossing
4% of NMACs were non-crossing

ENCOUNTER SUMMARY - AIRCRAFT ALTITUDES

Data File Name=LL818YZL.605; REIT Number=1520

SIM MODE:2165044 (Source: LL Composite FTEG Run, Dated 07/29/94)



```
  1520   6.02 RL VS 6.02 RH     18      73.23     NON_CROSSING_ENCOUNTER
SL =  5  ZTHR =  750.0   TAUR =  25.0   TAUV =  25.0   ALIM = 400.0
  750.0 (-5000.0,0.0)  (0.0,-5000.0)  0.15  -0.05  -25.0  -25.0     3700.0
A/C1: CL818CF,2162022 |PVMD | POTRA @38   (FRM) | DES   @46   [XRA] | IDES  @48
A/C2:CL818EH2,2262122 |PVMD | POTRA @41   (LVW) | CL    @46   [XRA]

  1520   6.04 RL VS 6.04 RH     18      73.23     NON_CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
  750.0 (-5000.0,0.0)  (0.0,-5000.0)  0.15  -0.05  -25.0  -25.0     3700.0
A/C1: CL818OR,2164033 |TAUR | POTRA @40   (FRM) | DES   @46   [XRA] | IDES  @48
A/C2:CL818OR2,2264133 |PVMD | POTRA @43   (LVW) | CL    @46   [XRA]

  1520   6.04A  RL VS 6.04A RH     18     -30.53     CROSSING_ENCOUNTER
SL =  5  ZTHR =  600.0   TAUR =  25.0   TAUV =  25.0   ALIM = 350.0
  750.0 (-5000.0,0.0)  (0.0,-5000.0)  0.15  -0.05  -25.0  -25.0     3700.0
A/C1: CL818WZ,2165044 |TAUR | POTRA @34   (6FT) | DES   @45   [XRA] | IDES  @47
A/C2:CL818XZ2,2265144 |TAUR | POTRA @34   (LVW) | CL    @45   [XRA]
```

Mitre encounter Class : 18 Reit number : 1520

NMAC Characterization

71% had pattern shown on attached plot

planned separation =	250, 500, 750	ft
AC1 rates :	-5000	fpm
AC2 rates :	(41%) -3000, (59%) -5000	fpm
AC1 accel :	0.05, 0.15	g
AC2 accel :	-0.05, -0.15, -0.25	g
AC2 accel time : CPA:	(83%) 20, (17%) 25	sec

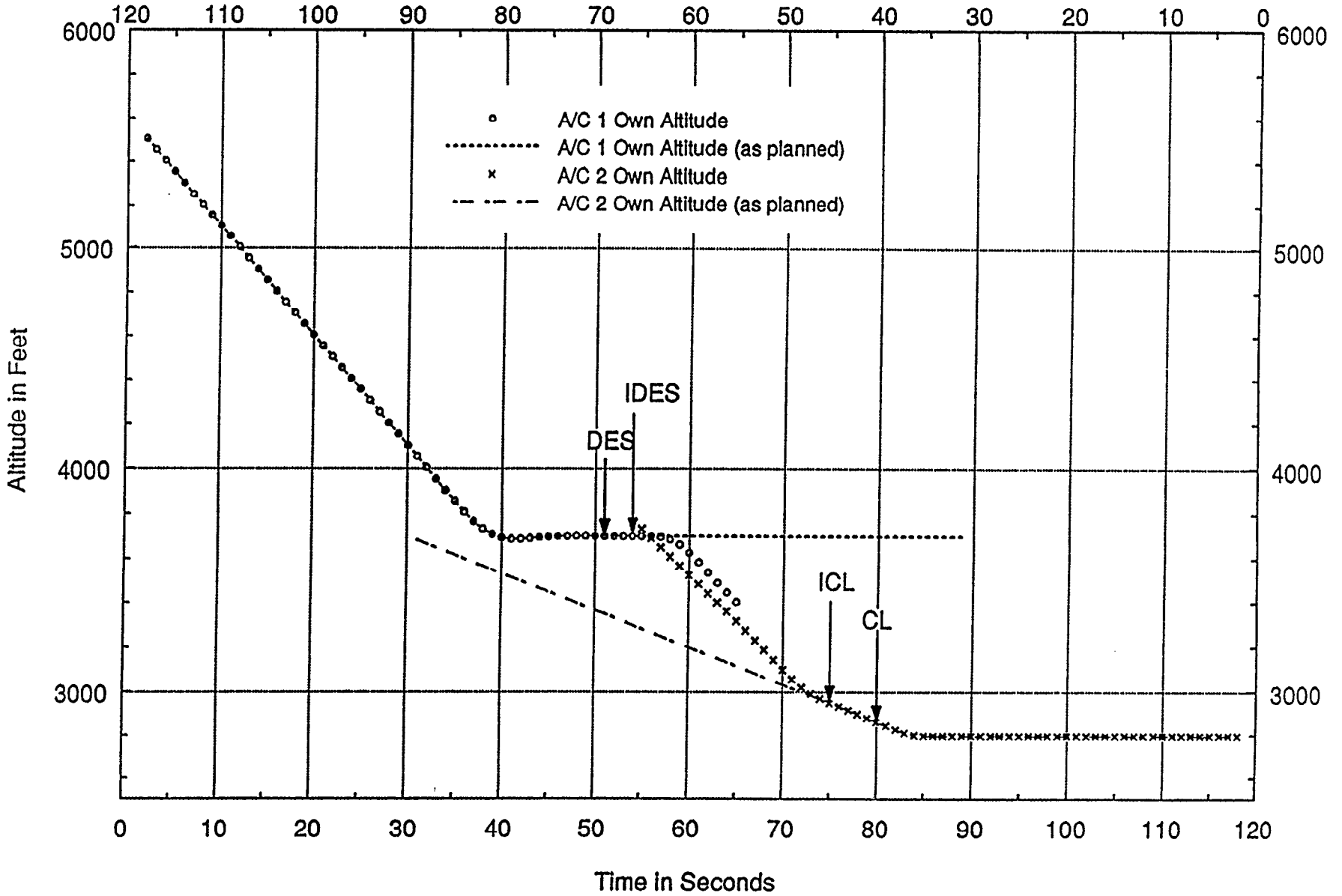
Performance Statistics (relate to whole class)

89% of RAs were non-crossing
33% of NMACs were non-crossing

ENCOUNTER SUMMARY - AIRCRAFT ALTITUDES

Data File Name=LL818YZH.605; REIT Number=3978

SIM MODE:2165144 (Source: LL Composite FTEG Run, Dated 07/29/94)



```
  3978    6.02 RH VS 6.02 RL     18      961.25     NON_CROSSING_ENCOUNTER

SL =  5  ZTHR =  750.0   TAUR =  25.0   TAUV =  25.0   ALIM = 400.0

  500.0 (-3000.0,0.0)  (0.0,1000.0)  0.25   0.35  -25.0  -25.0     3700.0

A/C1: CL818CF,2162122 |TAUR | POTRA @34    (DFD) | CL     @36    [NXRA]| LD1    @46
                            | LD2   @56

A/C2:CL818EH2,2262022 |TAUR | POTRA @34    (LVW) | DES    @35    [NXRA]| LC1    @45
                            | LC2   @58
```

```
  3978    6.04 RH VS 6.04 RL     18       85.41     CROSSING_ENCOUNTER

SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0

  500.0 (-3000.0,0.0)  (0.0,1000.0)  0.25   0.35  -25.0  -25.0     3700.0

A/C1: CL818OR,2164133 |RELZ | DES    @51    [XRA] | IDES   @54

A/C2:CL818OR2,2264033 |TAUR | CL     @40    [XRA] | ICL    @45
```

```
  3978    6.04A  RH VS 6.04A RL     18       85.41     CROSSING_ENCOUNTER

SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0

  500.0 (-3000.0,0.0)  (0.0,1000.0)  0.25   0.35  -25.0  -25.0     3700.0

A/C1: CL818WZ,2165144 |RELZ | DES    @51    [XRA] | IDES   @54

A/C2:CL818XZ2,2265044 |TAUR | CL     @40    [XRA] | ICL    @45
```

Mitre encounter Class : 18 Reit number : 3978

NMAC Characterization

29% had pattern shown on attached plot		
100% had planned separation =	500	ft
AC1 rates :	-3000	fpm
AC2 rates :	1000	fpm
AC1 accel :	0.25	g
AC2 accel :	0.05, 0.15, 0.25, 0.35	g
AC2 accel time : CPA: (60%) 25, (40%) 30		sec

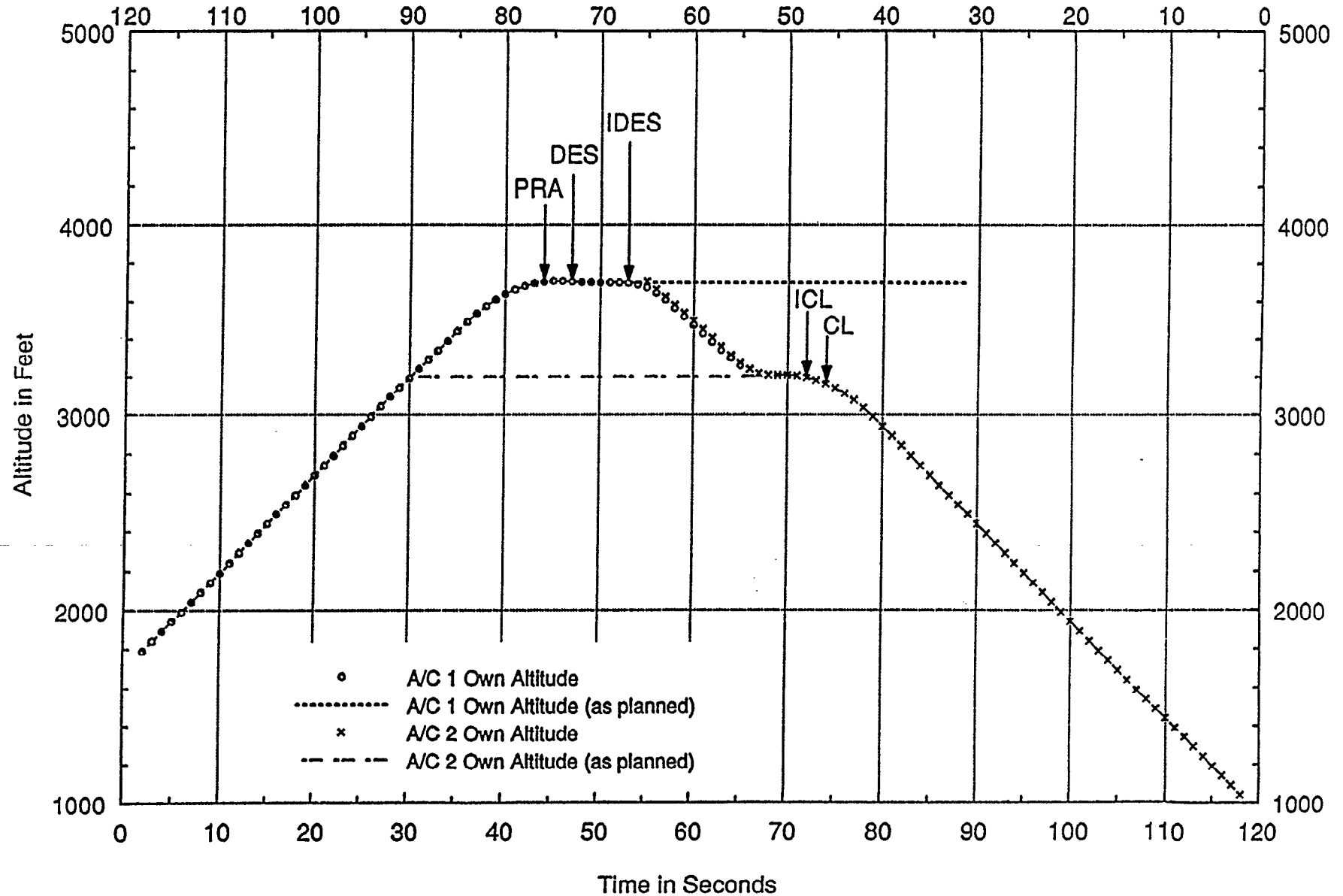
Performance Statistics (relate to whole class)

89% of RAs were non-crossing
33% of NMACs were non-crossing

ENCOUNTER SUMMARY - AIRCRAFT ALTITUDES

Data File Name=LL919YZH.605; REIT Number=2883

SIM MODE:2165144 (Source: LL Composite FTEG Run, Dated 07/29/94)



308

```
  2883    6.02 RH VS 6.02 RL     19    1004.89     NON_CROSSING_ENCOUNTER
SL =  5  ZTHR =  750.0   TAUR =  25.0   TAUV =  25.0   ALIM = 400.0
  500.0 (3000.0,0.0)  (3000.0,0.0) -0.15  -0.15  -25.0  -20.0     3700.0
A/C1: CL919CF,2162122 |RELZ | MCL   @38   [NXRA]| CL    @43          | LD1   @48
                            | LD2   @58
A/C2:CL919EH2,2262022 |TAUR | LC2   @34   [NXRA]| LC1   @45


  2883    6.04 RH VS 6.04 RL     19     -28.78     CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
  500.0 (3000.0,0.0)  (3000.0,0.0) -0.15  -0.15  -25.0  -20.0     3700.0
A/C1: CL9190R,2164133 |RELZ | POTRA @44   (DFD) | DES   @47   [XRA] | IDES  @53
A/C2:CL9190R2,2264033 |RELZ | CL    @46   [XRA] | ICL   @48


  2883    6.04A  RH VS 6.04A RL     19     -28.78     CROSSING_ENCOUNTER
SL =  4  ZTHR =  600.0   TAUR =  20.0   TAUV =  20.0   ALIM = 300.0
  500.0 (3000.0,0:0)  (3000.0,0.0) -0.15  -0.15  -25.0  -20.0     3700.0
A/C1: CL919WZ,2165144 |RELZ | POTRA @44   (DFD) | DES   @47   [XRA] | IDES  @53
A/C2:CL919YZ2,2265044 |RELZ | CL    @46   [XRA] | ICL   @48
```

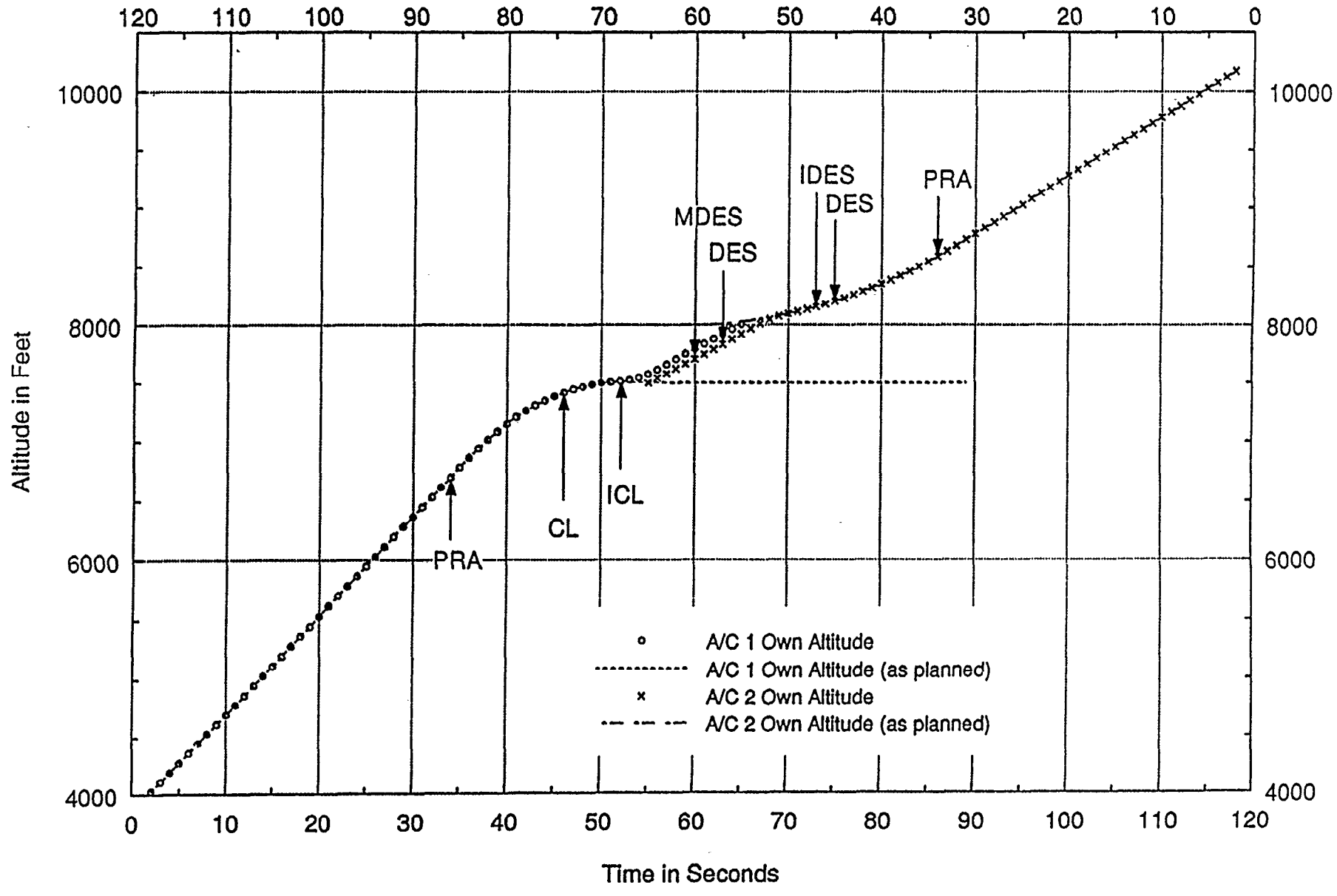
Mitre encounter Class : 19 Reit number : 2883

NMAC Characterization

31% had pattern shown on attached plot		
planned separation =	+/- 500, 1000	ft
AC1 rates :	1000, 3000, 5000	fpm
AC2 rates :	3000, 5000	fpm
AC1 accel :	(36%) -0.05, (64%) -0.15	g
AC2 accel :	(64%) -0.15, (27%) -0.25, (9%) -0.35	g
AC2 accel time : CPA:	(55%) 20, (9%) 25, (36%) 30	sec

Performance Statistics (relate to whole class)

77% of RAs were non-crossing
0% of NMACs were non-crossing


ENCOUNTER SUMMARY - AIRCRAFT ALTITUDES
Data File Name=LL919YZH.605; REIT Number=7162
SIM MODE:2165144 (Source: LL Composite FTEG Run, Dated 07/29/94)
120 110 100 90 80 70 60 50 40 30 20 10 0
10000
8000
6000
4000
Altitude in Feet
MDES
DES
IDES
DES
PRA
PRA
CL
ICL
A/C 1 Own Altitude
A/C 1 Own Altitude (as planned)
A/C 2 Own Altitude
A/C 2 Own Altitude (as planned)
0 10 20 30 40 50 60 70 80 90 100 110 120
Time in Seconds

```
  7162    6.02 RH VS 6.02 RL     19     242.44     CROSSING_ENCOUNTER
SL =  5   ZTHR =  750.0    TAUR =  25.0    TAUV =  25.0    ALIM = 400.0
 -500.0 (5000.0,0.0)   (-3000.0,0.0) -0.15    0.05  -25.0  -30.0     7500.0
A/C1: CL919CF,2162122 |PVMD | POTRA @41    (DFD) | CL     @44    [XRA] | ICL    @46
A/C2:CL919EH2,2262022 |PVMD | DES    @43    [XRA] | IDES  @47
```

```
  7162    6.04 RH VS 6.04 RL     19     242.44     CROSSING_ENCOUNTER
SL =  5   ZTHR =  600.0    TAUR =  25.0    TAUV =  25.0    ALIM = 350.0
 -500.0 (5000.0,0.0)   (-3000.0,0.0) -0.15    0.05  -25.0  -30.0     7500.0
A/C1: CL919OR,2164133 |PVMD | POTRA @42    (DFD) | CL     @44    [XRA] | ICL    @46
A/C2:CL919OR2,2264033 |PVMD | DES    @43    [XRA] | IDES  @47
```

```
  7162    6.04A  RH VS 6.04A RL     19      88.47     CROSSING_ENCOUNTER
SL =  5   ZTHR =  600.0    TAUR =  25.0    TAUV =  25.0    ALIM = 350.0
 -500.0 (5000.0,0.0)   (-3000.0,0.0) -0.15    0.05  -25.0  -30.0     7500.0
A/C1: CL919WZ,2165144 |TAUR | POTRA @34    (6FT) | CL     @46    [XRA] | ICL    @52
A/C2:CL919YZ2,2265044 |TAUR | POTRA @34    (6FT) | DES    @45    [XRA] | IDES  @47
                            | DES    @57          | MDES  @60
```

Mitre encounter Class : 19 Reit number : 7162

NMAC Characterization

69% had pattern shown on attached plot		
planned separation =	-500, -750	ft
AC1 rates :	(3%) 1000, (76%) 3000, (21%) 5000	fpm
AC2 rates :	(28%) -3000, (72%) -5000	fpm
AC1 accel :	-0.05, -0.15	g
AC2 accel :	0.05, 0.15, 0.25, 0.35	g
AC2 accel time : CPA:	(64%) 20, (24%) 25, (12%) 30	sec

Performance Statistics (relate to whole class)

77% of RAs were non-crossing
0% of NMACs were non-crossing

APPENDIX M

MINUTES OF 24 AUGUST 1994 NMAC REVIEW MEETING

I. Overview

A meeting was held at Lincoln Laboratory on 24 August 1994 to review the CAS version 6.04A NMACs. An attendance list is given on page 3. Agenda items included:

(1) a review of Lincoln's 30 "representative NMACS," i.e., TCAS-TCAS simulated encounters in which both aircraft were TCAS-equipped (6.04A), both pilots responded properly, and yet the vertical separation at closest approach was less than 100 ft.

(2) a review of FAA Technical Center's 13 failure mechanisms, i.e., the primary logic mechanisms underlying the TCAS-TCAS NMACs.

(3) a discussion of how to develop a class of encounters that would include known TCAS "events." This would include aircraft overshooting their altitude-clearances (two aircraft accelerations instead of just one).

Most of the meeting was devoted to item 1. Item 2 was also completed. Item 3 was essentially not addressed.

II. Agenda Item 1

For each of the 30 NMACs, we attempted to answer the following questions:

(1) Did we understand the NMAC? What caused it? Was there anything about the logic performance that we could not explain or that seemed wrong? Were we satisfied with the trade-offs made by the logic?

(2) How frequently did we expect this encounter to occur in the airspace? Would it occur only as a result of some breakdown or error in the system, or would it be something that controllers would do on a regular basis?

(3) Would this encounter be affected by any of the version 7 changes? Might the problems go away with version 7?

We flagged encounters that we did not understand and encounters that could occur frequently. Encounters were considered somewhat less urgent if they would be improved by version 7. Version 7 improvements could come from the following: better tracker (faster detection of maneuvers), elimination of coordination delay (earlier posting of RA - earlier pilot response and less time for aircraft contrary motion), TCAS-TCAS reversals, and immediate posting of a crossing RA in both aircraft if a crossing RA is selected by one aircraft.

Comments on specific encounters:

Class 515, reit 1195. The question was raised about the likelihood of an aircraft going to 5000 fpm from level flight at low altitude. The group felt that high rate climb-outs from busy airports are likely. Also, these rates could occur with crossing restrictions, i.e., when an aircraft has to be above or below a set altitude by a certain distance. See action item 6.

Class 616, reit 5863. This would be a good encounter to check the effect of the 25ft tracker.

Class 717, reit 2538. (Ref CRF 176) The comment was made that with version 7 neither aircraft would issue an RA. Both aircraft would remain yellow TAs *even though both would clearly be threats.* We agreed that this needs further thought. This same idea was rejected some years ago because it essentially communicated false information (that the intruder was not a threat) to the pilot, perhaps preventing the aircraft from making some last-minute saving maneuver (a turn?).

Class 717, reit 8982. A suggestion was made to trigger the TCAS-TCAS reversal logic when TCAS detects an intruder acceleration during own's pilot response delay period.

Class 818, reit 3615. (Ref CRF 139) This will exercise the new logic that immediately issues a crossing RA in both aircraft when a crossing is issued in one aircraft. (Or it could exercise the TCAS-TCAS reversal logic.) This would be a good encounter to check the balance between early crossings for both aircraft vs. a TCAS-TCAS reversal.

Class 818, reit 4970. (Ref CRF 205) See action item 2.

Class 515, reit 4283. See action item 1.

Class 515, reit 5543. SL3 is not adequate to handle the high vertical rates we are using. See action item 6.

Class 818, reit 1520. See action item 3.

Class 818, reit 3978. Same comment as Class 818, reit 3615 above.

Class 919, reit 2883. This was compared to the Houston encounter. Concern was expressed that this could (has?) happened in the airspace. See action item 6.

Class 919, reit 7162. This is a "Seattle encounter" but with 750 or 500 ft planned separation. The comment was made that all Seattle encounters that we know of in the airspace have had 1000ft planned separation. It was agreed to include this encounter (as an overshoot) in the special encounter set. Andy Zeitlin pointed out that the overshoot is an easy extension of the level-off encounters we already have. We would just add an extra parameter to our existing classes. See action item 4.

Class 919, reit 1509. There was no concern about this encounter because the aircraft is delaying a crossing RA, waiting for a level-off to occur; and this is viewed as an appropriate trade-off.

Class 919, reit 3523. See action item 5.

Class 313, reit 1614. This could happen in the airspace. See action item 6.

III. Agenda Item 2

FAA Technical Center reviewed the failure mechanisms observed in their simulation database. Their groupings were based on logic features, rather than on geometry (the Lincoln basis). The 13 failure mechanisms were:

1. Contrary Encounter Mechanism
2. Firmness Encounter Mechanism
3-7. Maintain Encounter Mechanism
8-11. Recovery Encounter Mechanism
12. Restart Encounter Mechanism
13. Slow Level-off Encounter Mechanism

Example plots were reviewed for each type of failure mechanism.

IV. Action Items

(answers to be faxed to other members of review committee)

(1) FAATC: Class 515, reit 4283. Look into why we get an increase RA when the aircraft's vertical rate is already 3000 fpm.
(2) FAATC: Class 818, reit 4970. Explain why 6.04 and 6.04A have such different results - 6.04 gives no RAs while 6.04A gives RAs that lead to NMACS.
(3) MITRE: Class 818, reit 1520. Look into the subject of many deferrals occurring one after another, resulting in too long a delay in issuing an RA.
(4) MITRE: Present thoughts on an overshoot class at the next TCAS Program Review.
(5) Lincoln Lab: Give second-by-second and summary data to Larry Nivert and MITRE for each of the three NMAC encounters in which the planned separation was 1000 ft. (all class 919, reits 1738, 4969, 5131)
(6) Lincoln Lab: Communicate results of altimetry monitoring when available (what vertical rates and accelerations are we seeing in the airspace? what kinds of overshoots?) Check with ARINC on expected autopilot performance.
(7) Lincoln Lab: Circulate meeting minutes to all attendees (one per organization). Give a report at the next TCAS Program Review.

V. Attendance List

1. Larry Nivert	FAA/ARD-140	202-267-8462
2. Andrew Zeitlin	MITRE/CAASD	703-883-6858
3. Tom Choyce	FAATC/ACD-320	609-485-4658
4. Kathryn Ciaramella	FAATC/ACD-320	609-485-5254
5. Ellen Meadors	TASC	617-942-2000
6. Rob Bradley	CRC	703-934-7800
7. Mike Rubinstein	CRC	703-934-7800
8. Ann Drumm	Lincoln Laboratory	617-981-3594
9. Richard Potts	Lincoln Laboratory	617-981-3285
10. Barbara Chludzinski	Lincoln Laboratory	617-981-4986