FLOODSTAND Integrated flooding and standard for stability and crises management

FP7-RTD- 218532

WP1:

Concept Ship Design B

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Abstract:
The design of sample ship 2 is documented by a general description, GAP and data model

CONTENTS

Page

CONTENTS 2
1. EXECUTIVE SUMMARY 3
2. Introduction 4
3. General Description of the Ship 4
4. Regulations 4
5. General Arrangement Plan 4
6. Hullform 6
7. Watertight Subdivision 6
8. Damage Stability Calculations 7
9. Data model 8
10. References 8
11. Annex 1 Data Sheet 9
12. Annex 2 Lines Plan 10
13. Annex 3 Damage Stability Calculations 11
14. Annex 4 General Arrangement Plan 12

1. EXECUTIVE SUMMARY

This report contains the basic description of the concept ship B to be used in the other work packages.

This sample ship is a medium sized cruise vessel with 63000 GT based on a design complying with all relevant rules and regulations for a passenger ship for world wide service with an anticipated keel laying after 1 July 2010.

The data of the vessel is described in form of a general arrangement plan and a 3D data base, both detailed as usual for a pre-contractual stage.

In addition the compliance with damage stability rules according MSC.216(82) known as SOLAS2009 has been shown.

2. Introduction

In way of the research project FLOODSTAND a number of calculations will be carried out by various partners. To be as close as possible to the reality the involved shipyard will supply deigns of modern cruise ships, which may be used by all partners as sample ships.

In this document the concept ship B is presented.

3. General Description of the Ship

This sample ship is a small to medium sized modern cruise vessel of approx. 63000 GT. As a twin-screw diesel-electric ship with public rooms located at and below the embarkation deck, with a large pool deck and corresponding public areas as well with dedicated cabin decks, with a high proportion of balcony cabins it represents the state-of-the-art cruise ship concept in the last years.

The ship is divided in 5 main vertical zones and a watertight subdivision below the bulkhead deck to comply with the relevant rules and regulation.

The ship has following main dimensions:

MAIN DIMENSIONS	
Length overall (approx.):	238,00 m
Length pp:	216,80 m
Beam moulded:	32,20 m
Bulkhead deck:	9,80 m
Draught design (approx.):	7,20 m
Draught max. (approx.):	7,40 m
Deadweight:	-
Tonnage (approx.):	63000 GT

More detailed data of the ship is shown in Annex 1.

4. Regulations

The design complies with all relevant IMO rules and regulations applicable for ships with keel laying after 1 July 2010, which includes following codes.

- SOLAS1974 as amended, including MSC216(82), probabilistic damage stability and safe return to port
- Load line Convention
- MARPOL, including fuel oil tank protection

5. General Arrangement Plan

The following figure shows the General Arrangement Plan, which is also be available as a separate drawing in annex 4.

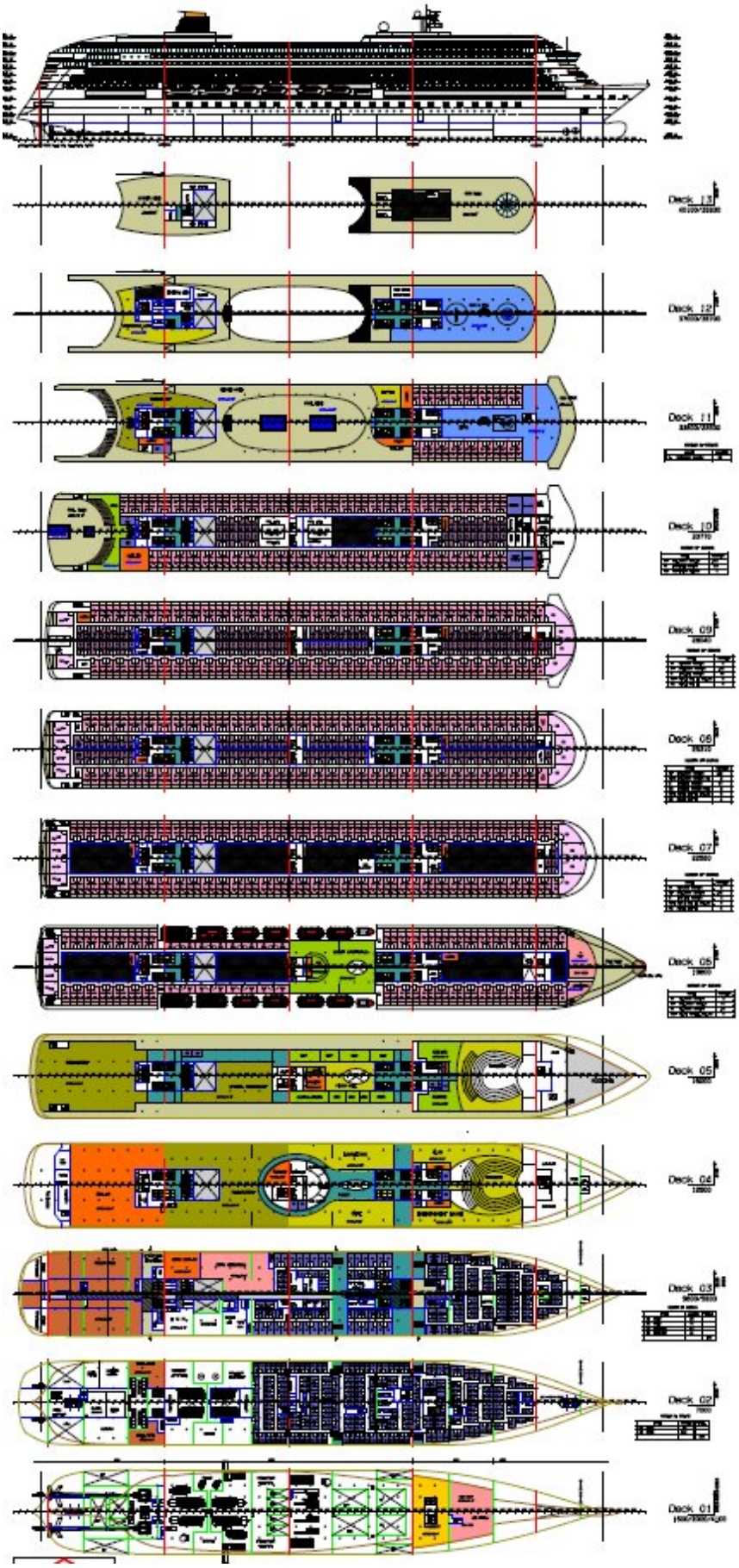


Figure 1 General Arangement Plan

6. Hullform

The hull from is shown in the figure below and is part of the 3D data model. A more comprehensive lines plan is shown in Annex 2.

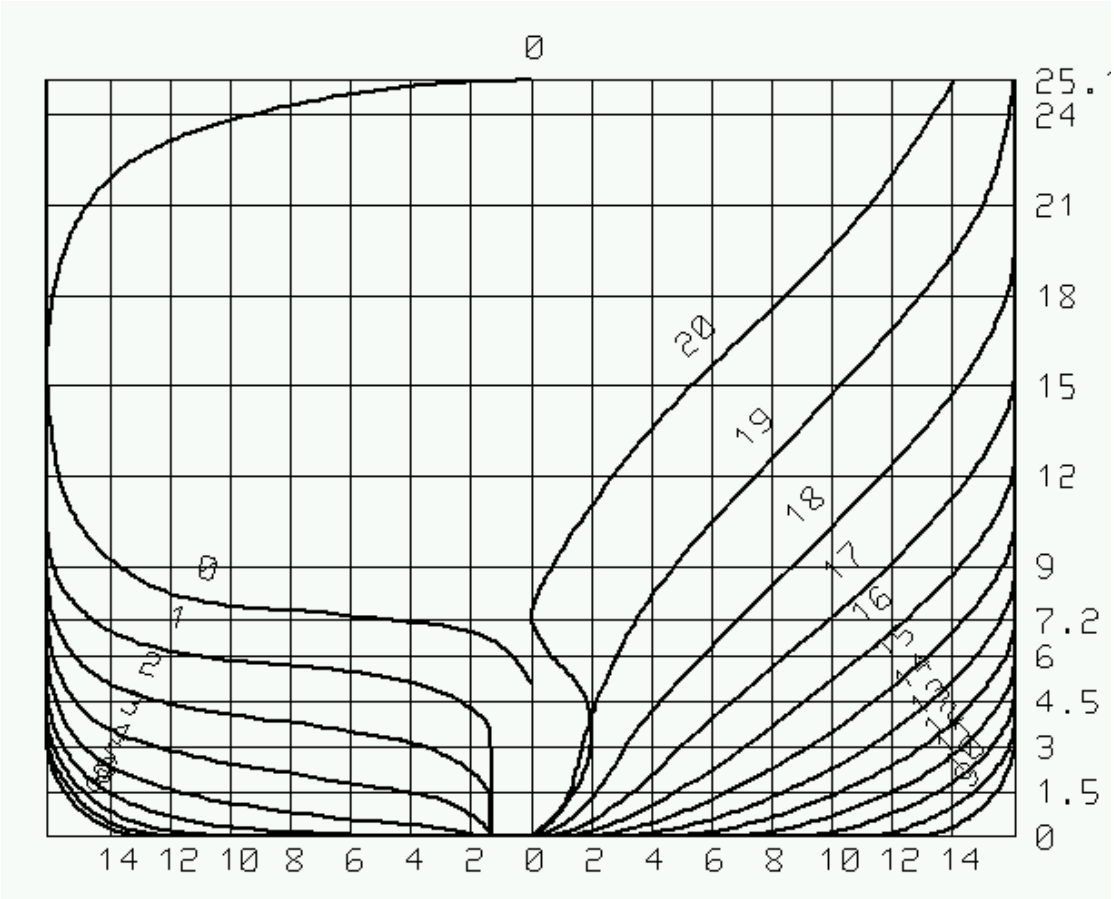


Figure 2 Hull Form

7. Watertight Subdivision

The ship is devided below the bulkhead deck, which is located on deck 3 into 16 watertight compartments. In addition partial watertight bulkheads are located between deck 3 and deck 4 to prevent progressive flooding along the bulkhead deck.

Watertight doors are provided in most of the watertight bulkheads to allow the proper function and operation of the vessel. In most cases the watertight doors will be used as the secondary means of escape. Watertight doors on deck 3 have the same design as below the bulkhead deck with regard to function and operation, however the scantlings of the door is adjusted to the smaller head of water.

To comply with the usual redundancy requirements including those defined in MSC216(82) the main engines are located in two separate watertight compartments. To have even a higher degree of redundancy an additional watertight compartment os located between both main engine rooms so that even in the case of a 2-compartment damage 50% of the electrical power will be available.

The electrical propulsion motors, together with transformators, and converters are also located in separate watertight spaces.

The watertight subdivision used in the damage stability calculations can be seen in the following figure.

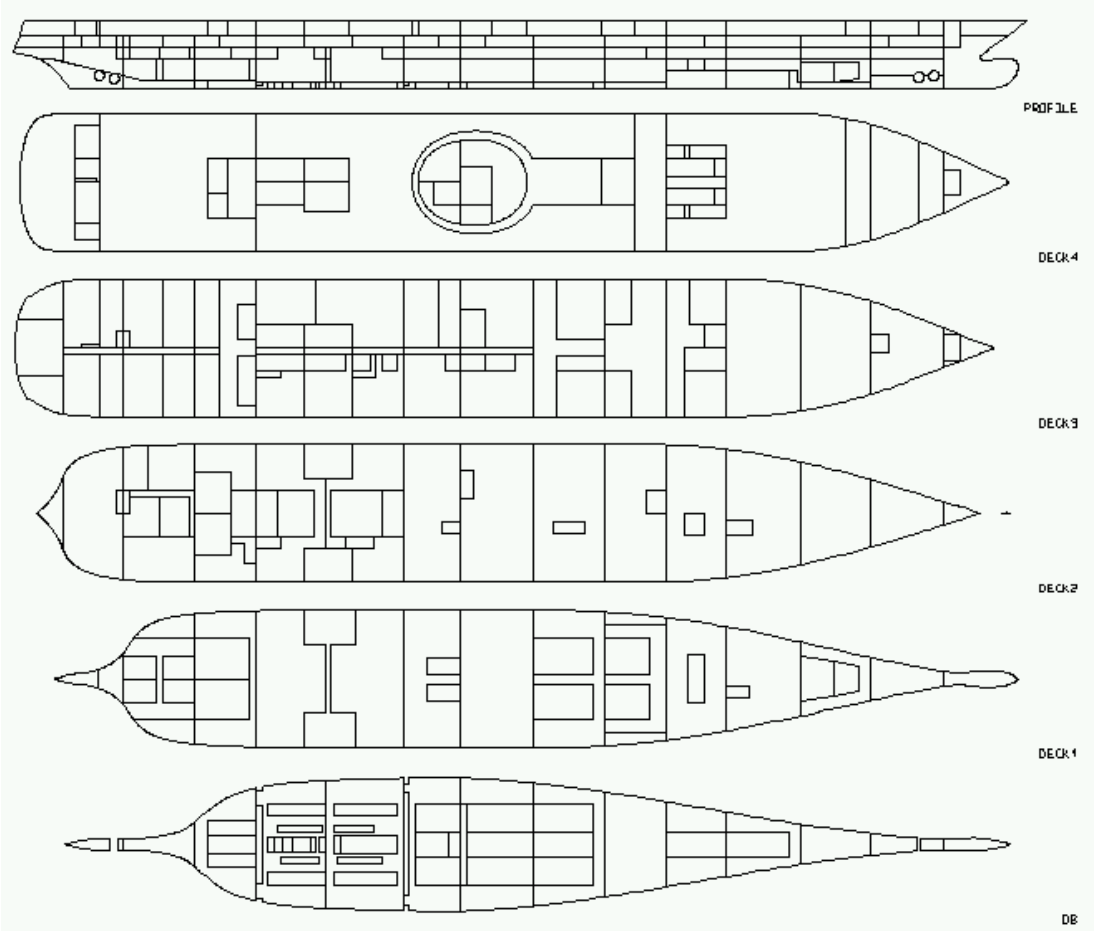


Figure 3 Watertight Subdivision

8. Damage Stability Calculations

Damage stability calculations according SOLAS2009 (MSC.216(82)) have been carried out. The detailed calculations are shown in annex 2.

The ship has to comply with a required index R as defined in regulation 6:

R = 1 − 5000 / (Ls + 2.5*N + 15225)
where:

Ls = 234.443 Subdivision length
N = N1 + 2* N2
N1 = 1800 persons in lifeboats
N2 = 600 persons in excess of N1

The attained index has been calculated according the explanatory notes as agreed at SLF51.

Subdivision length 234.443 m
Breadth at the load line 32.200 m
Breadth at the bulkhead deck 32.200 m
Number of persons N1 1800
Number of persons N2 600

Required subdivision index R = 0.78222
Attained subdivision index A = 0.80005

9. Data model

A 3D data model has been used to calculate the damage stability requirements and is available in way of a NAPA database if needed by the partners.

10. References

/1/ Safety of life at Sea SOLAS, International Maritime Organisation, London

/2/ MSC.216(82), International Maritime Organisation, London

/3/ Explanatory Notes to revised SOLASII-1, SLF51 WP1, International Maritime Organisation, London

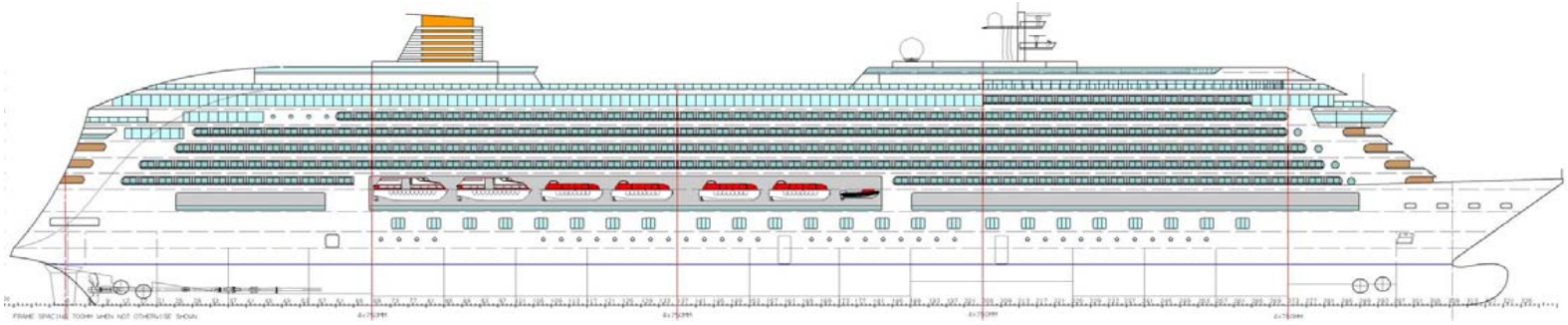
/4/ Calculation of cross-flooding devices, revised A266, MSC 245(83), International Maritime Organisation, London

Date: 17.03.2009

K7769-A1

63.000 GT cruise vessel

Floodstand project



GENERAL	
Project No.:	K7769-A1
Name:	)0 GT cruise vessel
Yard	Meyer Werft
Classification:	Class
Flag:	Flag

MAIN DIMENSIONS	
Length overall (approx.):	238,00 m
Length pp:	216,80 m
Beam moulded:	32,20 m
Bulkhead deck:	9,80 m
Draught design (approx.):	7,20 m
Draught max. (approx.):	7,40 m
Deadweight:	-
Tonnage (approx.):	63000 GT

LIFESAVING	
Max. persons on board:	2400
Max. passengers on board:	1733
Number of tenderboats:	4
Capacity of tenderboats:	150
Number of lifeboats:	8
Capacity of lifeboats:	150

PASSENGER ACCOMMODATION	
Mini Suite Balcony	16
Mini Suite	12
Balcony Cabin	582
Balcony Cabin Dis.	2
Window Cabin	6
Window Cabin	16
Window Cabin Dis.	
Inside Cabin	187
Total Pax Cabins	**821**
Total Lower Berths	1642
Max Load Factor	106%
Outside Cabin Ratio:	77,0%
Balcony Cabin Ratio:	72,9%
Inside Cabin Ratio:	23,0%
ADA Cabin Ratio	0,5%

CREW ACCOMMODATION	
Captains Class	4
Senior Officer	31
Junior Officer	15
Crew Single	45
Crew Double	286
Total Crew Cabins	381
Total Crew Berths	667

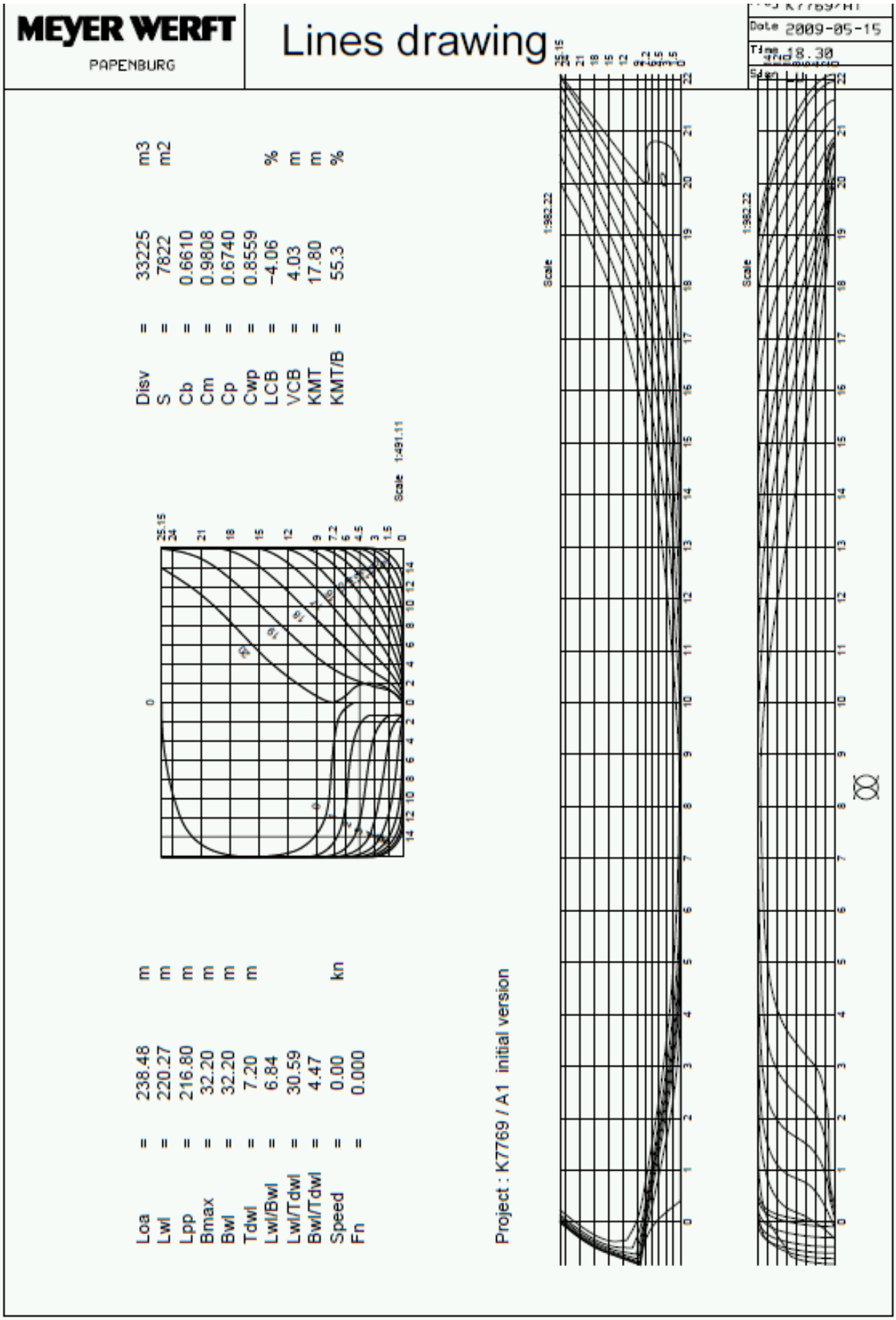
RATIOS:	
GT / Cabin:	76,74
GT / Lower berth:	38,37
Pax / Crew:	2,46
Public space / Pax:	13,3
Galley / Pax:	1,7

MACHINERY	
No. of main engines:	-
Type:	-
Output (each):	-
Total installed power:	-
Propulsion concept:	-
Propulsion motors:	-
Propulsion power:	-
Speed (service):	-
Propeller Type:	FPP
Propeller diam.:	0,00 m
Bow thrusters:	-
Output (each):	-
Stern thrusters:	-
Output (each):	-
Stabilisers:	1 pair

TANK CAPACITIES	
Heavy fuel oil:	-
Gas oil:	-
Lub oil:	-
Grey water:	-
Fresh water:	-
Heeling water:	-
Ballast water:	-
Potable Water:	-

Date: 17.03.2009

12. Annex 2 Lines Plan



13. Annex 3 Damage Stability Calculations

MEYER WERFT
PAPENBURG 1795

Damage Stability Calculations

Part 1(2)

FLOODSTAND

Yard No. K7769

Drwg No. K7769 069 P 00 00 0 00 00 10 A

TD/MK
2009-05-08

1 Main Dimensions

Ship's name	FLOODSTAND
Builders	MEYER WERFT GmbH, Papenburg, Germany
Builder's No.	K. 7769
Year of Delivery	2008
Length over all	238.0 m
Length betw. perpendiculars	216.8 m
Breadth moulded	32.20 m
Depth to deck 3	9.80 m
Summer load draught (moulded) (subdivision draught)	7.20 m
Summer load deadweight (even keel)	8900 t
Summer load displacement (even keel)	35367 t
GT	63000
Persons on board:	
Passengers	1800
Crew	600

2 General Information

2.1 Classification and Regulations

The vessel is designed in conformity with the new harmonized damage stability regulations as defined in MSC.216(82).

2.2 Used Calculation Software

These damage stability calculations are carried out with the computer-program called NAPA

These calculations have been carried out with following software version:

NAPA Release B3703 2008.2 P

2.3 Flooding assumptions

The flooding of the damage zones up to the center line for port and starboard damages has been investigated. Internal horizontal and longitudinal subdivision has been considered as well as resulting minor damages. Single and multizone damages (up to 6 adjacent zones) have been calculated.

According the explanatrory notes two intermediate phases will be calculated for the first stage of flooding.

2.4 Permeabilities

The permeabilites according regulation 7-3 have been applied. Where larger spaces with different permeabilities are located with in one watertight compartment, these spaces are defined as seperate rooms with seperate permebilities, but they will be flooded simultaneously.

2.5 Initial conditions

The attained index has been calculated for both sides, port and starboard using weighing factors for the 3 initial draughts as defined in regulation 7.1 Details about the initial conditions can be found in a seperate chapter of this document.

As the service trim ususaly does not exceed 0.5% of Ls, even keel has been used for the subdivision and partial draught. At the lightest service draught the actual service trim has been applied.

For all initial condition a minimum filling of the heeling water tanks of 10% has been assumed.

2.6 External Moments

The external moments due to passenger crowding, wind and launching of survival crafts have been applied according regulation 7-2 for all damages.

Details can be found in the corresponding chapter of this document.

2.7 Cross Flooding

Selected pairs of tanks and other spaces are connected with cross flooding devices. The size of the devices is selected to provide cross flooding within 10 minutes. The flooding situation before and after crossflooding are calculated in separate flooding stages.

A list of spaces connected with cross flooding arrangements is shown later In this document. The calcuation of the required size of the crossflooding pipes to maintain the required time for crossflooding has been done according IMO resolution MSC.245(83) and will be shown in a seperate document.

2.8 Instantaneous Flooding

According to the interim explanatary notes spaces which have been assumed as instantaneous flooded have to be checked according A.266 if they will be equalized within 60 seconds.

2.9 Openings

Openings, which may cause a significant flooding of undamaged spaces have been considered in different ways:

2.9.1 Downflooding points

Unprotected openings in the bulkhead deck, like stairs, lifts or openings leading from the sea to the bouyant hull have been considered as downflooding points for the calculation of the GZ curve. Openings which connect two damaged rooms are made irrelevant for the specific damage case.

2.9.2 Partial bulkheads

Partial bulkheads on the bulkhead deck are assumed as unprotected openings on the deck. These openings connect both rooms of either side of the partial bulkhead.

The triangular shape of the partial bulkhead is modelled via a second opening for each bulkhead at the upper end.

2.9.3 Ducting and Piping

The ducting and piping inside the vessel, which might influence the internal watertigt integrity has been considered in two ways. One way are remote operated valves, which are located directly adjacent to a bulkhead (within one frame distance) and assumed to be closed in the event of damage. For the calculation of pi the location of the bulhead has been used.

Ducting and piping of open systems, which can not be closed by remote operated valves have been either modelled as openings or located in special areas of the vessel. No

damages are included in the calculation of the attained index where such piping is located. Any damage which penetrates this room will not contribute to the attained index. However flooding of this space is allowed.

Air pipes of tanks and void spaces are assumed to be weathertight. They are seperately modelled if they are located in areas which may be flooded before another opening submerges.

2.9.4 Horizontal escape routes

As horizontal evacuation route such areas are considered which form a horizontal staircase (spaces category 2, SOLAS II-2, reg 9)

The immersion of this horizontal escape routes in the final stage of flooding will cause si,final = 0.

Local escape ways which lead towards an enclosed stair case, like cabin corridors, public rooms etc, have not been considered as horizontal evacuation route.

2.9.5 Emergency Stations

Emergency stations located on the bulkhead deck are to be kept accessible during any stage of flooding. These areas are modelled as weathertight openings.

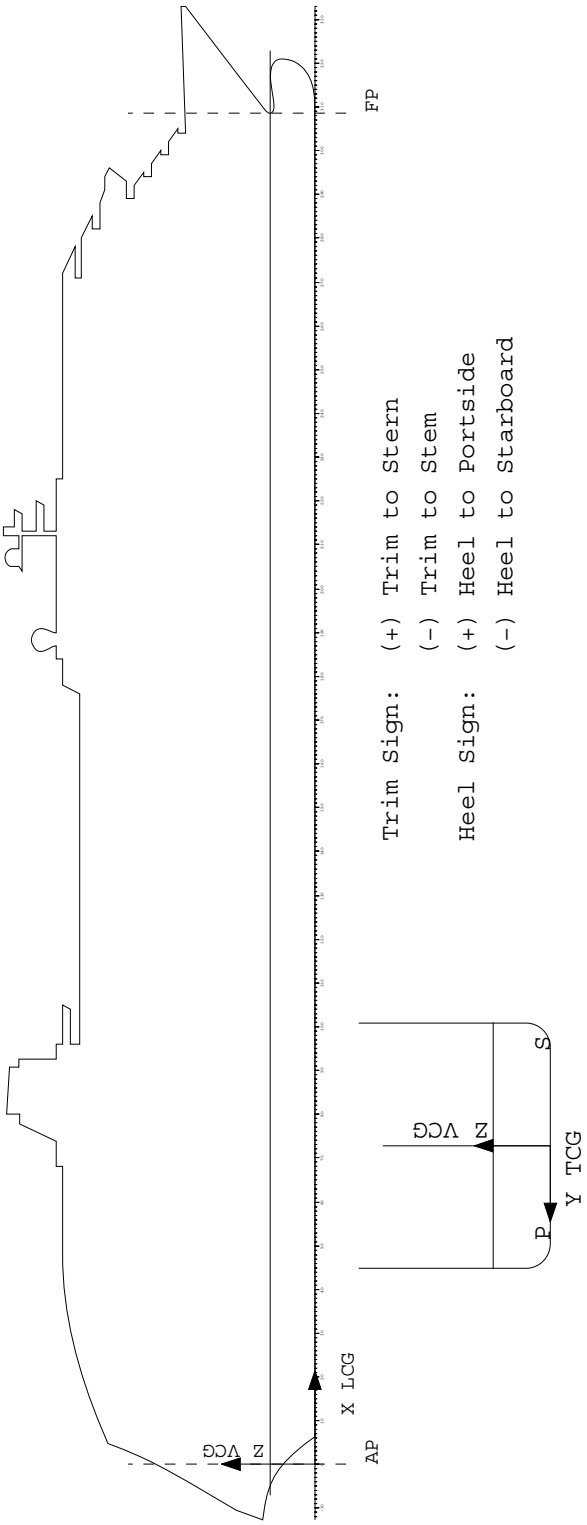
2.10 Minor Damages according regulation 8

Minor damages according regulation 8 have been checked and the results are shown in this document.

2.11 Bottom Damages according regulation 9

As the minimum double bottom height is greater that B/20 no bottom damages have to been analyzed.

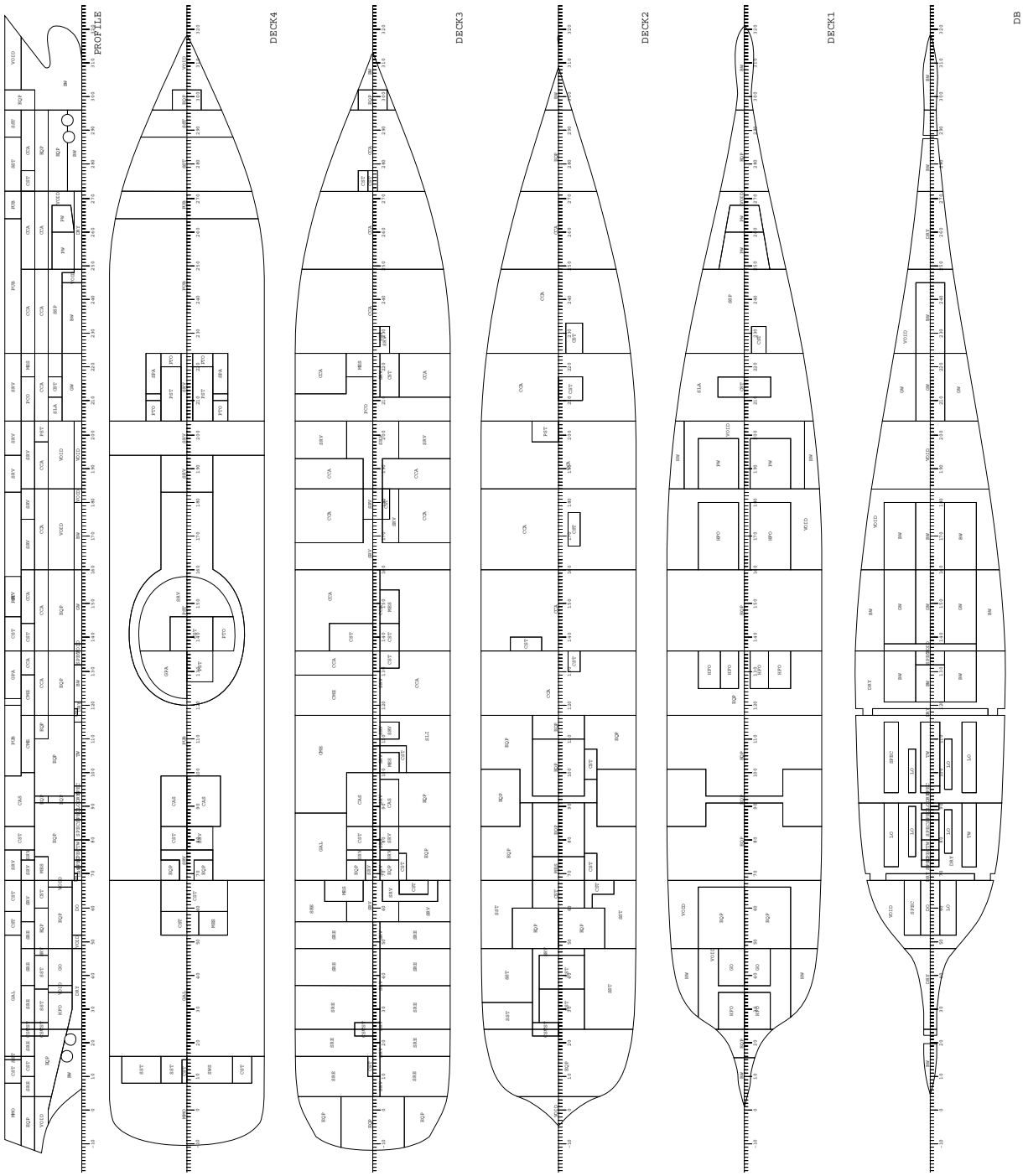
3 Definition of Coordinate System



4 Tankdistribution

4.1 Drawing of Tanks

Refernces is also made to the drawing 'PLAN OF COMPARTMENTS'.



4.2 Tank Volumes and Centre of Gravity

NAME	COMP.NAME	VNET m3	RHO t/m3	PERM	CGX m	CGY m	CGZ m
BALLAST WATER RHO= 1.025 t/m3							
T0		138.72	1.025	0.95	8.31	-0.00	3.05
T1		534.87	1.025	0.95	214.29	-0.00	6.92
T36		109.70	1.025	0.95	90.20	6.30	0.80
T38		115.71	1.025	0.95	103.35	11.90	0.89
T41		115.71	1.025	0.95	103.35	-11.90	0.89
T42		143.59	1.025	0.95	119.36	6.28	0.81
T47		146.18	1.025	0.95	197.69	-0.00	1.76
T48		131.71	1.025	0.95	119.40	0.00	0.80
T49		143.59	1.025	0.95	119.36	-6.28	0.81
T50		72.41	1.025	0.95	88.75	0.00	0.80
T51		109.70	1.025	0.95	90.20	-6.30	0.80
T55		349.21	1.025	0.95	164.71	0.00	2.08
TOTAL		2111.09			143.21	-0.00	2.79
CASING RHO= 1 t/m3							
R63.1		362.12	1.000	0.95	64.41	2.70	12.85
R63.2		356.92	1.000	0.95	64.15	-3.49	13.37
TOTAL		719.04			64.28	-0.37	13.11
CABIN CREW RHO= 0 t/m3							
R102		1465.69	0.000	0.95	120.80	0.11	8.40
R103.2		442.18	0.000	0.95	123.60	9.05	11.20
R103.3		362.01	0.000	0.95	123.78	-10.17	11.20
R112		1205.00	0.000	0.95	135.98	-0.15	8.40
R113.1		248.72	0.000	0.95	132.35	9.05	11.20
R113.2		248.72	0.000	0.95	132.35	-9.05	11.20
R122		1192.03	0.000	0.95	150.34	0.14	8.41
R123.1		249.31	0.000	0.95	153.20	10.80	11.20
R123.4		270.09	0.000	0.95	152.85	-10.80	11.20
R132		1379.45	0.000	0.95	166.16	0.15	8.44
R133		1563.97	0.000	0.95	166.10	0.00	11.21
R142		1039.57	0.000	0.95	182.52	0.00	8.46
R143		1275.70	0.000	0.95	182.68	0.00	11.24
R153		843.21	0.000	0.95	198.73	-0.06	11.27
R82		1178.04	0.000	0.95	88.68	0.08	8.40
R83.2		507.47	0.000	0.95	88.41	-9.22	11.20
R83.5		225.40	0.000	0.95	93.00	8.05	11.20
R92		1470.92	0.000	0.95	104.20	-0.24	8.40
R93.1		1166.84	0.000	0.95	104.90	-0.08	11.20
R93.2		70.98	0.000	0.95	103.95	-0.75	11.20
TOTAL		16405.32			140.05	-0.18	9.69

NAME	COMP.NAME	VNET m3	RHO t/m3	PERM	CGX m	CGY m	CGZ m
CREW MESS RHO= 0 t/m3							
R73.1		788.12	0.000	0.95	72.91	8.91	11.20
R83.1		378.67	0.000	0.95	86.30	8.05	11.20
TOTAL		1166.79			77.25	8.63	11.20
STAIR CREW RHO= 0 t/m3							
D4R27		131.61	0.000	0.95	38.85	1.45	14.30
D4R28		16.66	0.000	0.95	8.05	0.50	14.30
D4R32		76.16	0.000	0.95	8.40	-11.50	14.30
D4R35		214.85	0.000	0.95	99.05	-0.95	14.30
D4R9		307.19	0.000	0.95	44.55	-1.55	14.30
R102.1		49.00	0.000	0.95	120.80	-3.25	8.40
R121.1		133.98	0.000	0.95	150.40	0.00	5.55
R122.1		68.60	0.000	0.95	150.05	-2.50	8.40
R123.3		101.92	0.000	0.95	152.85	-3.50	11.20
R131.1		48.72	0.000	0.95	160.20	-3.00	5.55
R132.1		61.74	0.000	0.95	160.55	-3.25	8.40
R153.1		24.08	0.000	0.95	193.25	2.00	11.20
R22.1		21.17	0.000	0.95	16.10	2.70	8.40
R23.6		14.70	0.000	0.95	16.10	1.88	11.20
R23.7		11.76	0.000	0.95	9.10	0.50	11.20
R32.7		21.17	0.000	0.95	17.50	2.70	8.40
R33.6		14.70	0.000	0.95	17.50	1.88	11.20
R42.4		175.39	0.000	0.95	44.90	0.00	8.40
R42.6		62.52	0.000	0.95	45.75	-7.98	8.40
R52.3		40.77	0.000	0.95	50.60	-6.70	8.40
R53.6		25.09	0.000	0.95	50.60	-6.20	11.20
R72.2		45.86	0.000	0.95	71.95	-6.70	8.40
R73.6		39.20	0.000	0.95	73.84	-5.15	11.20
R82.1		30.10	0.000	0.95	93.35	-3.25	8.40
R83.4		40.32	0.000	0.95	93.70	-3.50	11.20
R92.1		52.78	0.000	0.95	96.95	6.75	8.40
R93.4		63.84	0.000	0.95	98.35	-3.50	11.20
R93.5		143.64	0.000	0.95	98.35	4.50	11.20
R103.6		26.46	0.000	0.95	126.05	-2.75	11.20
R43.9		48.72	0.000	0.95	46.35	-8.50	11.20
R53.9		164.05	0.000	0.95	56.55	2.70	12.90
R153.2		24.08	0.000	0.95	193.25	0.00	11.20
TOTAL		2300.84			81.87	-1.35	11.11
DIESEL OIL RHO= 0.86 t/m3							
T17		88.10	0.860	0.95	42.13	0.00	1.01

NAME	COMP.NAME	VNET m3	RHO t/m3	PERM	CGX m	CGY m	CGZ m
VOID SPACES RHO= 1 t/m3							
R140		124.03	1.000	0.95	182.18	0.00	0.95
R30		129.96	1.000	0.95	26.18	0.00	1.22
R50		424.60	1.000	0.95	56.29	-0.01	0.81
R60		620.46	1.000	0.95	73.12	0.01	0.78
R80		276.13	1.000	0.95	87.81	-0.00	0.80
R50.1		17.67	1.000	0.95	48.50	0.00	1.25
R80.1		23.05	1.000	0.95	82.80	0.00	1.25
TOTAL		1615.90			75.67	0.00	0.85
MACHINERY RHO= 1 t/m3							
R13.1		199.24	1.000	0.85	-1.47	10.51	11.22
R13.2		380.60	1.000	0.85	-2.46	0.00	11.17
R13.3		199.24	1.000	0.85	-1.47	-10.51	11.22
R151		489.84	1.000	0.85	198.00	0.00	5.30
R163		153.12	1.000	0.85	210.10	0.00	12.90
R21		1665.68	1.000	0.85	10.53	-0.03	7.67
R41.1		602.11	1.000	0.85	40.00	4.80	4.50
R41.2		602.11	1.000	0.85	40.00	-4.80	4.50
R42.2		221.28	1.000	0.85	37.80	4.80	8.40
R42.3		221.28	1.000	0.85	37.80	-4.80	8.40
R51		2610.65	1.000	0.85	55.32	0.00	4.85
R52.1		687.65	1.000	0.85	54.38	0.39	8.40
R53.3		99.52	1.000	0.85	49.90	-3.45	12.90
R53.4		304.25	1.000	0.85	53.63	-11.12	11.20
R61		1645.87	1.000	0.85	64.93	0.00	5.65
R63		343.82	1.000	0.85	64.81	-10.43	11.20
R71		2725.03	1.000	0.85	74.36	0.00	4.84
R72		455.23	1.000	0.85	73.64	7.99	8.40
R72.1		145.21	1.000	0.85	79.65	0.00	8.40
R81		1583.08	1.000	0.85	87.58	-0.00	4.31
R91		2856.61	1.000	0.85	103.93	0.00	4.32
R152		606.53	1.000	0.85	198.31	0.00	8.49
R72.3		298.88	1.000	0.85	76.85	-11.16	8.40
R53.8		99.52	1.000	0.85	49.90	3.45	12.90
TOTAL		19196.34			71.56	-0.34	6.14
GALLEY RHO= 0 t/m3							
D4R1		3468.20	0.000	0.95	27.54	0.24	14.30
R53.1		419.44	0.000	0.95	54.80	10.75	11.20
TOTAL		3887.64			30.48	1.37	13.97

NAME	COMP.NAME	VNET m3	RHO t/m3	PERM	CGX m	CGY m	CGZ m
GAS OIL RHO= 0.86 t/m3							
T4		203.74	0.860	0.95	29.75	2.70	4.50
T5		203.74	0.860	0.95	29.75	-2.70	4.50
TOTAL		407.48			29.75	0.00	4.50
PANTRY RHO= 0 t/m3							
D4R18		249.56	0.000	0.95	91.34	4.05	14.30
GREY WATER RHO= 1 t/m3							
T40		159.37	1.000	0.95	104.70	6.30	0.80
T43		361.16	1.000	0.95	149.92	6.74	2.52
T44		339.92	1.000	0.95	150.35	0.00	2.05
T53		159.37	1.000	0.95	104.70	-6.30	0.80
T54		144.88	1.000	0.95	104.70	0.00	0.80
T45		361.16	1.000	0.95	149.92	-6.74	2.52
TOTAL		1525.88			136.27	0.00	1.89
HEAVY FUEL OIL RHO= 0.96 t/m3							
T10		156.85	0.960	0.95	91.60	-3.10	4.30
T11		622.34	0.960	0.95	119.40	5.40	4.30
T12		622.34	0.960	0.95	119.40	-5.40	4.30
T3		192.63	0.960	0.95	20.79	2.70	4.62
T52		192.63	0.960	0.95	20.79	-2.70	4.62
T7		189.88	0.960	0.95	91.60	7.30	4.30
T8		156.85	0.960	0.95	91.60	3.10	4.30
T9		189.88	0.960	0.95	91.60	-7.30	4.30
TOTAL		2323.40			94.75	0.00	4.35
HEELING WATER RHO= 1 t/m3							
T15		160.29	1.000	0.95	135.71	13.96	5.18
T16		160.29	1.000	0.95	135.71	-13.96	5.18
T2		267.85	1.000	0.95	26.71	12.26	5.46
T6		267.85	1.000	0.95	26.71	-12.26	5.46
TOTAL		856.29			67.52	0.00	5.35

NAME	COMP.NAME	VNET m3	RHO t/m3	PERM	CGX m	CGY m	CGZ m
LUBRICATING OIL RHO= 0.9 t/m3							
T19		58.33	0.900	0.95	42.59	-3.61	1.21
T20		31.28	0.900	0.95	57.25	8.10	1.20
T21		12.35	0.900	0.95	57.95	3.75	1.20
T27		7.90	0.900	0.95	63.20	0.00	0.80
T28		10.70	0.900	0.95	57.95	-3.75	1.20
T31		10.70	0.900	0.95	70.55	3.75	1.20
T34		12.35	0.900	0.95	71.95	-3.75	1.20
T35		34.57	0.900	0.95	73.35	-8.10	1.20
TOTAL		178.19			57.75	-1.33	1.19
E-STATION RHO= 0 t/m3							
D4R10		99.96	0.000	0.95	38.85	-5.50	14.30
R123.2		75.46	0.000	0.95	154.95	2.75	11.20
R43.4		98.56	0.000	0.95	45.60	6.00	11.20
R52.2		148.18	0.000	0.95	50.25	0.00	8.40
R73.2		47.04	0.000	0.95	72.30	-3.50	11.20
R93.3		78.40	0.000	0.95	104.70	-3.50	11.20
TOTAL		547.60			71.45	-0.35	11.01
MOORING RHO= 0 t/m3							
D4R21		1315.17	0.000	0.95	0.59	0.00	14.28
PASS CORRIDOR RHO= 1 t/m3							
R123		536.19	1.000	0.95	146.46	0.75	11.20
STAIR PASS RHO= 0 t/m3							
D4R20		117.50	0.000	0.95	92.30	-2.70	14.30
D4R3		2494.80	0.000	0.95	103.94	0.00	14.30
D4R33		161.36	0.000	0.95	148.95	3.30	14.30
D4R34		161.36	0.000	0.95	148.95	-3.30	14.30
R112.1		66.22	0.000	0.95	141.15	2.75	8.40
TOTAL		3001.25			109.14	-0.05	14.17
TOILETS PASS RHO= 0 t/m3							
D4R11		45.32	0.000	0.95	145.45	6.95	14.30
D4R12		45.32	0.000	0.95	145.45	-6.95	14.30
D4R15		39.98	0.000	0.95	156.00	3.30	14.30
D4R16		39.98	0.000	0.95	156.00	-3.30	14.30
D4R19		108.54	0.000	0.95	99.04	-7.65	14.30

NAME	COMP.NAME	VNET m3	RHO t/m3	PERM	CGX m	CGY m	CGZ m
TOTAL		279.16			130.43	-2.97	14.30
PUBLIC ROOM RHO= 0 t/m3							
D4R2		6195.44	0.000	0.95	89.02	0.05	14.30
D4R4		4107.28	0.000	0.95	165.87	0.00	14.30
D4R5		589.73	0.000	0.95	188.22	0.00	14.33
TOTAL		10892.46			123.37	0.03	14.30
POTABLE WATER RHO= 1 t/m3							
T13		466.75	1.000	0.95	134.45	5.40	4.30
T14		466.75	1.000	0.95	134.45	-5.40	4.30
T56		273.07	1.000	0.95	178.53	0.00	4.53
T57		141.48	1.000	0.95	185.25	0.00	4.77
TOTAL		1348.06			148.71	0.00	4.40
LAUNDRY RHO= 0 t/m3							
R121		1045.44	0.000	0.95	150.19	-0.00	5.60
GARBAGE ROOM RHO= 1 t/m3							
R73.3		384.55	1.000	0.95	76.38	-9.87	11.20
PANTRY RHO= 1 t/m3							
D4R13		88.54	1.000	0.95	153.20	6.95	14.30
D4R14		88.54	1.000	0.95	153.20	-6.95	14.30
TOTAL		177.07			153.20	0.00	14.30
SPECIAL TANKS RHO= 1 t/m3							
T18		58.33	1.000	0.95	42.59	3.61	1.21
T22		7.90	1.000	0.95	51.30	0.00	0.80
T23		11.85	1.000	0.95	53.05	0.00	0.80
T25		23.71	1.000	0.95	58.30	0.00	0.80
T26		7.90	1.000	0.95	61.10	0.00	0.80
T30		34.57	1.000	0.95	73.35	8.10	1.20
T32		8.78	1.000	0.95	66.70	0.00	0.80
T37		33.81	1.000	0.95	94.06	0.00	1.02
TOTAL		186.87			62.53	2.63	1.04

NAME	COMP.NAME	VNET m3	RHO t/m3	PERM	CGX m	CGY m	CGZ m
STORE REF. RHO= 0 t/m3							
R23.1		365.53	0.000	0.60	6.94	8.26	11.20
R23.2		237.73	0.000	0.60	13.87	8.43	11.20
R23.3		342.01	0.000	0.60	7.01	-8.77	11.20
R23.4		228.93	0.000	0.60	14.00	-8.80	11.20
R33.1		395.53	0.000	0.60	21.49	8.28	11.20
R33.2		347.12	0.000	0.60	29.75	8.05	11.20
R33.3		372.01	0.000	0.60	21.35	-8.80	11.20
R33.4		314.78	0.000	0.60	29.75	-8.80	11.20
R43.1		252.45	0.000	0.60	36.40	8.05	11.20
R43.2		228.93	0.000	0.60	36.40	-8.80	11.20
R43.3		200.98	0.000	0.60	42.91	11.61	11.20
TOTAL		3285.98			22.43	0.73	11.20
SERVICE AREA RHO= 1 t/m3							
D4R24		567.47	1.000	0.95	104.20	1.82	14.30
D4R25		144.57	1.000	0.95	149.93	0.00	14.30
D4R30		777.31	1.000	0.95	139.75	0.00	14.30
D4R31		282.74	1.000	0.95	132.35	0.00	14.30
R103.1		559.69	1.000	0.95	115.71	-0.00	11.20
R103.4		80.16	1.000	0.95	122.79	-4.01	11.20
R113.3		233.53	1.000	0.95	139.40	10.75	11.20
R23.5		17.64	1.000	0.95	4.90	-0.75	11.20
R32.6		97.22	1.000	0.95	28.55	2.65	8.40
R33.5		5.88	1.000	0.95	17.50	-0.75	11.20
R43.5		92.96	1.000	0.95	45.21	-7.36	11.20
R43.6		23.52	1.000	0.95	36.40	-0.75	11.20
R53.2		31.75	1.000	0.95	53.05	2.70	11.20
R53.5		29.40	1.000	0.95	55.50	-0.75	11.20
R63.3		47.04	1.000	0.95	64.60	-0.75	11.20
R73.4		39.20	1.000	0.95	78.95	-3.50	11.20
R73.5		26.46	1.000	0.95	78.95	-0.75	11.20
R83.3		56.28	1.000	0.95	88.80	-0.75	11.20
R23.8		41.16	1.000	0.95	11.90	-0.75	11.20
R43.7		176.29	1.000	0.95	42.50	0.00	11.20
R43.8		206.58	1.000	0.95	43.16	-10.85	11.20
R113.4		306.43	1.000	0.95	137.78	0.00	11.20
R113.5		233.53	1.000	0.95	139.40	-10.75	11.20
R103.5		70.56	1.000	0.95	126.05	0.00	11.20
R73.7		23.52	1.000	0.95	73.00	-0.75	11.20
R53.7		17.64	1.000	0.95	49.90	-0.75	11.20
R123.5		38.22	1.000	0.95	152.85	-0.75	11.20
R133.1		37.24	1.000	0.95	159.87	-2.22	11.20
R133.2		17.64	1.000	0.95	160.90	-0.75	11.20
R53.10		22.93	1.000	0.95	53.05	-3.45	11.20
R53.11		53.51	1.000	0.95	56.55	-3.45	11.20
R53.12		17.64	1.000	0.95	49.90	0.75	11.20
R33.7		64.68	1.000	0.95	25.90	-0.75	11.20
D4R36		119.95	1.000	0.95	51.92	0.00	14.30
D4R37		89.96	1.000	0.95	56.55	-2.70	14.30

NAME	COMP.NAME	VNET m3	RHO t/m3	PERM	CGX m	CGY m	CGZ m
TOTAL		4650.31			106.33	-0.62	12.46
SPORTING AREA RHO= 1 t/m3							
R131		1180.81	1.000	0.95	166.13	0.12	5.57
STORE GENERAL RHO= 0 t/m3							
D4R22		86.16	0.000	0.60	8.47	3.13	14.30
D4R29		154.22	0.000	0.60	8.40	9.45	14.30
D4R6		1002.80	0.000	0.60	196.49	0.00	14.36
D4R7		377.88	0.000	0.60	205.09	0.00	14.39
R32.1		166.16	0.000	0.60	19.61	10.70	8.41
R32.2		334.92	0.000	0.60	28.00	10.74	8.40
R32.3		205.41	0.000	0.60	21.27	-0.91	8.40
R32.4		184.24	0.000	0.60	28.70	-0.70	8.40
R32.5		501.08	0.000	0.60	25.22	-10.73	8.40
R42.1		326.64	0.000	0.60	41.58	11.73	8.40
R42.5		264.11	0.000	0.60	40.59	-12.62	8.40
TOTAL		3603.61			93.18	0.53	11.08
WORK SHOP RHO= 0 t/m3							
D4R23		180.88	0.000	0.95	8.40	-4.75	14.30
TECHNICAL WATER RHO= 1 t/m3							
T24		11.85	1.000	0.95	55.15	0.00	0.80
T29		31.28	1.000	0.95	57.25	-8.10	1.20
T33		83.42	1.000	0.95	74.05	0.00	0.80
TOTAL		126.55			68.13	-2.00	0.90
VOID RHO= 0 t/m3							
D4R8		473.10	0.000	0.95	215.00	0.00	14.53
R100		194.87	0.000	0.95	122.88	-0.00	0.95
R101		1547.29	0.000	0.95	121.83	-0.00	4.42
R110		405.67	0.000	0.95	135.94	0.00	0.88
R111		936.62	0.000	0.95	138.03	-0.00	4.34
R12		550.78	0.000	0.95	-1.67	0.00	8.71
R141		759.53	0.000	0.95	183.16	-0.00	4.77
R31		622.67	0.000	0.95	25.88	-0.00	4.99
R40		186.69	0.000	0.95	41.32	-0.00	1.43
R41		933.35	0.000	0.95	41.84	-0.00	4.70
R90		46.08	0.000	0.95	96.25	0.00	0.80
R130		582.79	0.000	0.95	165.64	-0.00	2.64
TOTAL		7239.45			110.59	-0.00	4.98

4.3 Location of Rooms

NAME	COMP.NAME	FRMIN #	FRMAX #	YMIN m	YMAX m	ZMIN m	ZMAX m
BALLAST WATER RHO= 1.025 t/m3							
T0		-4.23	24.00	-2.83	2.83	0.00	7.00
T1		296.00	321.00	-7.12	7.12	0.00	12.60
T36		121.00	136.00	3.00	9.60	-0.00	1.60
T38		136.00	160.00	9.60	15.60	-0.00	1.60
T41		136.00	160.00	-15.60	-9.60	-0.00	1.60
T42		160.00	180.00	3.00	9.60	-0.00	1.60
T47		272.00	296.00	-3.79	3.79	0.00	3.00
T48		160.00	180.00	-3.00	3.00	0.00	1.60
T49		160.00	180.00	-9.60	-3.00	-0.00	1.60
T50		121.00	131.99	-3.00	3.00	0.00	1.60
T51		121.00	136.00	-9.60	-3.00	-0.00	1.60
T55		224.00	245.00	-3.00	3.00	-0.00	4.10
TOTAL							
CASING RHO= 1 t/m3							
R63.1		84.00	100.00	0.00	5.40	9.80	16.00
R63.2		84.00	99.00	-7.00	0.00	9.80	16.00
TOTAL							
CABIN CREW RHO= 0 t/m3							
R102		160.00	184.00	-16.10	16.10	7.00	9.80
R103.2		168.00	184.00	2.00	16.10	9.80	12.60
R103.3		168.00	184.00	-16.10	-2.00	9.80	12.60
R112		184.00	204.00	-16.10	16.10	7.00	9.80
R113.1		184.00	193.00	2.00	16.10	9.80	12.60
R113.2		184.00	193.00	-16.10	-2.00	9.80	12.60
R122		204.00	224.00	-16.10	16.10	7.00	9.80
R123.1		212.00	224.00	5.50	16.10	9.80	12.60
R123.4		211.00	224.00	-16.10	-5.50	9.80	12.60
R132		224.00	249.00	-16.10	16.10	7.00	9.80
R133		224.00	249.00	-16.10	16.10	9.80	12.60
R142		249.00	272.00	-14.65	14.65	7.00	9.80
R143		249.00	272.00	-16.06	16.06	9.80	12.60
R153		272.00	296.00	-13.44	13.44	9.80	12.60
R82		117.00	136.00	-16.10	16.10	7.00	9.80
R83.2		117.00	136.00	-16.10	-1.50	9.80	12.60
R83.5		129.00	136.00	0.00	16.10	9.80	12.60
R92		136.00	160.00	-16.10	16.10	7.00	9.80
R93.1		136.00	160.00	-16.10	16.10	9.80	12.60
R93.2		136.00	160.00	-1.50	0.00	9.80	12.60
TOTAL							

NAME	COMP.NAME	FRMIN #	FRMAX #	YMIN m	YMAX m	ZMIN m	ZMAX m
CREW MESS RHO= 0 t/m3							
R73.1		88.00	117.00	0.00	16.10	9.80	12.60
R83.1		117.00	129.00	0.00	16.10	9.80	12.60
TOTAL							
STAIR CREW RHO= 0 t/m3							
D4R27		52.00	59.00	-2.50	5.40	12.60	16.00
D4R28		8.00	15.00	0.00	1.00	12.60	16.00
D4R32		8.00	16.00	-13.50	-9.50	12.60	16.00
D4R35		136.00	146.00	-5.40	3.50	12.60	16.00
D4R9		59.00	68.00	-8.50	5.40	12.60	16.00
R102.1		167.00	177.00	-4.50	-2.00	7.00	9.80
R121.1		211.00	217.00	-5.50	5.50	4.10	7.00
R122.1		210.00	217.00	-5.00	0.00	7.00	9.80
R123.3		211.00	224.00	-5.50	-1.50	9.80	12.60
R131.1		224.00	232.00	-4.50	-1.50	4.10	7.00
R132.1		224.00	233.00	-5.00	-1.50	7.00	9.80
R153.1		272.00	278.00	1.00	3.00	9.80	12.60
R22.1		22.00	24.00	0.00	5.40	7.00	9.80
R23.6		22.00	24.00	0.00	3.75	9.80	12.60
R23.7		10.00	16.00	0.00	1.00	9.80	12.60
R32.7		24.00	26.00	0.00	5.40	7.00	9.80
R33.6		24.00	26.00	0.00	3.75	9.80	12.60
R42.4		60.00	68.00	-5.40	5.40	7.00	9.80
R42.6		60.00	68.00	-11.50	-5.40	7.00	9.80
R52.3		68.00	76.00	-8.00	-5.40	7.00	9.80
R53.6		68.00	76.00	-7.00	-5.40	9.80	12.60
R72.2		98.00	107.00	-8.00	-5.40	7.00	9.80
R73.6		100.00	108.00	-7.00	-1.50	9.80	12.60
R82.1		130.00	136.00	-4.50	-2.00	7.00	9.80
R83.4		131.00	136.00	-5.50	-1.50	9.80	12.60
R92.1		136.00	140.00	3.50	10.00	7.00	9.80
R93.4		136.00	144.00	-5.50	-1.50	9.80	12.60
R93.5		136.00	144.00	0.00	9.00	9.80	12.60
R103.6		175.00	184.00	-3.50	-2.00	9.80	12.60
R43.9		64.00	68.00	-11.50	-5.50	9.80	12.60
R53.9		77.00	84.00	0.00	5.40	9.80	16.00
R153.2		272.00	278.00	-1.00	1.00	9.80	12.60
TOTAL							
DIESEL OIL RHO= 0.86 t/m3							
T17		52.00	68.00	-2.00	2.00	0.00	2.00

NAME	COMP.NAME	FRMIN #	FRMAX #	YMIN m	YMAX m	ZMIN m	ZMAX m
VOID SPACES RHO= 1 t/m3							
R140		249.00	272.00	-4.75	4.75	-0.00	1.60
R30		24.00	48.00	-8.25	8.25	-0.00	3.00
R50		68.00	91.00	-14.95	14.95	-0.00	1.60
R60		91.00	117.00	-15.50	15.50	-0.00	1.60
R80		117.00	136.00	-15.67	15.67	-0.00	1.60
R50.1		68.00	70.00	-9.20	9.20	0.90	1.60
R80.1		117.00	119.00	-12.00	12.00	0.90	1.60
TOTAL							
MACHINERY RHO= 1 t/m3							
R13.1		-11.11	4.00	6.60	16.08	9.80	12.60
R13.2		-12.01	4.00	-6.60	6.60	9.80	12.60
R13.3		-11.11	4.00	-16.08	-6.60	9.80	12.60
R151		272.00	296.00	-7.81	7.81	3.00	7.00
R163		296.00	302.00	-3.00	3.00	9.80	16.00
R21		4.00	24.00	-16.10	16.10	3.00	9.80
R41.1		48.00	66.00	0.00	9.60	2.00	7.00
R41.2		48.00	66.00	-9.60	0.00	2.00	7.00
R42.2		48.00	60.00	0.00	9.60	7.00	9.80
R42.3		48.00	60.00	-9.60	0.00	7.00	9.80
R51		68.00	91.00	-16.10	16.10	1.60	9.80
R52.1		68.00	91.00	-16.10	16.10	7.00	9.80
R53.3		68.00	74.00	-5.40	-1.50	9.80	16.00
R53.4		68.00	84.00	-16.10	-5.40	9.80	12.60
R61		84.00	101.00	-16.10	16.10	1.60	9.80
R63		84.00	100.00	-16.10	-1.50	9.80	12.60
R71		93.00	117.00	-16.10	16.10	1.60	9.80
R72		91.00	117.00	-8.00	16.10	7.00	9.80
R72.1		110.00	117.00	-5.40	5.40	7.00	9.80
R81		117.00	136.00	-16.10	16.10	1.60	7.00
R91		136.00	160.00	-16.10	16.10	1.60	7.00
R152		272.00	296.00	-10.76	10.76	7.00	9.80
R72.3		101.00	117.00	-16.10	-5.40	7.00	9.80
R53.8		68.00	74.00	1.50	5.40	9.80	16.00
TOTAL							
GALLEY RHO= 0 t/m3							
D4R1		16.00	68.00	-16.10	16.10	12.60	16.00
R53.1		68.00	88.00	5.40	16.10	9.80	12.60
TOTAL							

NAME	COMP.NAME	FRMIN #	FRMAX #	YMIN m	YMAX m	ZMIN m	ZMAX m
GAS OIL RHO= 0.86 t/m3							
T4		37.00	48.00	0.00	5.40	2.00	7.00
T5		37.00	48.00	-5.40	0.00	2.00	7.00
TOTAL							
PANTRY RHO= 0 t/m3							
D4R18		122.00	136.00	0.00	9.73	12.60	16.00
GREY WATER RHO= 1 t/m3							
T40		138.00	160.00	3.00	9.60	-0.00	1.60
T43		204.00	224.00	3.00	14.01	-0.00	4.10
T44		204.00	224.00	-3.00	3.00	-0.00	4.10
T53		138.00	160.00	-9.60	-3.00	-0.00	1.60
T54		138.00	160.00	-3.00	3.00	0.00	1.60
T45		204.00	224.00	-14.01	-3.00	-0.00	4.10
TOTAL							
HEAVY FUEL OIL RHO= 0.96 t/m3							
T10		125.00	136.00	-5.00	-1.20	1.60	7.00
T11		160.00	180.00	1.20	9.60	1.60	7.00
T12		160.00	180.00	-9.60	-1.20	1.60	7.00
T3		24.00	35.00	0.00	5.40	2.00	7.00
T52		24.00	35.00	-5.40	0.00	2.00	7.00
T7		125.00	136.00	5.00	9.60	1.60	7.00
T8		125.00	136.00	1.20	5.00	1.60	7.00
T9		125.00	136.00	-9.60	-5.00	1.60	7.00
TOTAL							
HEELING WATER RHO= 1 t/m3							
T15		184.00	204.00	12.50	16.10	1.69	7.00
T16		184.00	204.00	-16.10	-12.50	1.69	7.00
T2		25.00	48.00	9.60	16.07	2.22	7.00
T6		25.00	48.00	-16.07	-9.60	2.22	7.00
TOTAL							

NAME	COMP.NAME	FRMIN #	FRMAX #	YMIN m	YMAX m	ZMIN m	ZMAX m
LUBRICATING OIL RHO= 0.9 t/m3							
T19		52.00	68.00	-5.40	-2.00	0.03	2.00
T20		72.00	91.00	6.60	9.60	0.80	1.60
T21		75.00	90.00	3.00	4.50	0.80	1.60
T27		89.00	91.00	-1.80	1.80	-0.00	1.60
T28		76.00	89.00	-4.50	-3.00	0.80	1.60
T31		94.00	107.00	3.00	4.50	0.80	1.60
T34		95.00	110.00	-4.50	-3.00	0.80	1.60
T35		94.00	115.00	-9.60	-6.60	0.80	1.60
TOTAL							
E-STATION RHO= 0 t/m3							
D4R10		52.00	59.00	-8.50	-2.50	12.60	16.00
R123.2		217.00	224.00	0.00	5.50	9.80	12.60
R43.4		62.00	68.00	2.00	10.00	9.80	12.60
R52.2		68.00	75.00	-5.40	5.40	7.00	9.80
R73.2		100.00	106.00	-5.50	-1.50	9.80	12.60
R93.3		144.00	154.00	-5.50	-1.50	9.80	12.60
TOTAL							
MOORING RHO= 0 t/m3							
D4R21		-10.53	16.00	-16.10	16.10	12.60	16.00
PASS CORRIDOR RHO= 1 t/m3							
R123		204.00	216.99	-16.10	16.10	9.80	12.60
STAIR PASS RHO= 0 t/m3							
D4R20		127.00	136.00	-5.40	0.00	12.60	16.00
D4R3		120.00	183.00	-12.00	12.00	12.60	16.00
D4R33		204.00	220.00	1.20	5.40	12.60	16.00
D4R34		204.00	220.00	-5.40	-1.20	12.60	16.00
R112.1		198.00	204.00	0.00	5.50	7.00	9.80
TOTAL							
TOILETS PASS RHO= 0 t/m3							
D4R11		204.00	210.00	5.40	8.50	12.60	16.00
D4R12		204.00	210.00	-8.50	-5.40	12.60	16.00
D4R15		220.00	224.00	1.20	5.40	12.60	16.00
D4R16		220.00	224.00	-5.40	-1.20	12.60	16.00
D4R19		136.00	146.00	-10.00	-5.40	12.60	16.00

NAME	COMP.NAME	FRMIN #	FRMAX #	YMIN m	YMAX m	ZMIN m	ZMAX m
TOTAL							
PUBLIC ROOM RHO= 0 t/m3							
D4R2		68.00	194.00	-16.10	16.10	12.60	16.00
D4R4		204.00	264.00	-16.10	16.10	12.60	16.00
D4R5		264.00	272.00	-16.10	16.10	12.60	16.00
TOTAL							
POTABLE WATER RHO= 1 t/m3							
T13		184.00	199.00	1.20	9.60	1.60	7.00
T14		184.00	199.00	-9.60	-1.20	1.60	7.00
T56		249.00	260.00	-7.84	7.84	1.60	6.20
T57		260.00	268.00	-6.50	6.50	1.60	6.20
TOTAL							
LAUNDRY RHO= 0 t/m3							
R121		204.00	224.00	-16.02	16.02	4.10	7.00
GARBAGE ROOM RHO= 1 t/m3							
R73.3		100.00	117.00	-16.10	0.00	9.80	12.60
PANTRY RHO= 1 t/m3							
D4R13		212.00	224.00	5.40	8.50	12.60	16.00
D4R14		212.00	224.00	-8.50	-5.40	12.60	16.00
TOTAL							
SPECIAL TANKS RHO= 1 t/m3							
T18		52.00	68.00	2.00	5.40	0.03	2.00
T22		72.00	74.00	-1.80	1.80	0.00	1.60
T23		74.00	77.00	-1.80	1.80	0.00	1.60
T25		80.00	86.00	-1.80	1.80	0.00	1.60
T26		86.00	88.00	-1.80	1.80	0.00	1.60
T30		94.00	115.00	6.60	9.60	0.80	1.60
T32		94.00	96.00	-2.00	2.00	0.00	1.60
T37		132.00	136.00	-3.00	3.00	-0.00	2.31
TOTAL							

NAME	COMP.NAME	FRMIN #	FRMAX #	YMIN m	YMAX m	ZMIN m	ZMAX m
STORE REF. RHO= 0 t/m3							
R23.1		4.00	16.00	0.00	16.10	9.80	12.60
R23.2		16.00	24.00	0.00	16.10	9.80	12.60
R23.3		4.00	16.00	-16.10	-1.50	9.80	12.60
R23.4		16.00	24.00	-16.10	-1.50	9.80	12.60
R33.1		24.00	37.00	0.00	16.10	9.80	12.60
R33.2		37.00	48.00	0.00	16.10	9.80	12.60
R33.3		24.00	37.00	-16.10	-1.50	9.80	12.60
R33.4		37.00	48.00	-16.10	-1.50	9.80	12.60
R43.1		48.00	56.00	0.00	16.10	9.80	12.60
R43.2		48.00	56.00	-16.10	-1.50	9.80	12.60
R43.3		56.00	68.00	5.40	16.10	9.80	12.60
TOTAL							
SERVICE AREA RHO= 1 t/m3							
D4R24		136.00	158.00	-9.63	10.00	12.60	16.00
D4R25		204.00	224.00	-8.50	8.50	12.60	16.00
D4R30		194.00	204.00	-16.10	16.10	12.60	16.00
D4R31		183.00	194.00	-5.40	5.40	12.60	16.00
R103.1		160.00	174.99	-16.10	16.10	9.80	12.60
R103.4		168.00	184.00	-5.40	-2.00	9.80	12.60
R113.3		193.01	204.00	5.40	16.10	9.80	12.60
R23.5		4.00	10.00	-1.50	0.00	9.80	12.60
R32.6		26.00	48.00	-5.40	5.40	7.00	9.80
R33.5		24.00	26.00	-1.50	0.00	9.80	12.60
R43.5		62.00	68.00	-13.50	-2.00	9.80	12.60
R43.6		48.00	56.00	-1.50	0.00	9.80	12.60
R53.2		74.00	77.00	0.00	5.40	9.80	12.60
R53.5		74.00	84.00	-1.50	0.00	9.80	12.60
R63.3		84.00	100.00	-1.50	0.00	9.80	12.60
R73.4		110.00	115.00	-5.50	-1.50	9.80	12.60
R73.5		108.00	117.00	-1.50	0.00	9.80	12.60
R83.3		117.00	136.00	-1.50	0.00	9.80	12.60
R23.8		10.00	24.00	-1.50	0.00	9.80	12.60
R43.7		56.00	68.00	-5.40	5.40	9.80	12.60
R43.8		56.00	68.00	-16.10	-5.40	9.80	12.60
R113.4		184.00	204.00	-5.40	5.40	9.80	12.60
R113.5		193.01	204.00	-16.10	-5.40	9.80	12.60
R103.5		175.00	184.00	-2.00	2.00	9.80	12.60
R73.7		100.00	108.00	-1.50	0.00	9.80	12.60
R53.7		68.00	74.00	-1.50	0.00	9.80	12.60
R123.5		211.00	224.00	-1.50	0.00	9.80	12.60
R133.1		224.00	232.00	-3.50	0.00	9.80	12.60
R133.2		226.00	232.00	-1.50	0.00	9.80	12.60
R53.10		74.00	77.00	-5.40	-1.50	9.80	12.60
R53.11		77.00	84.00	-5.40	-1.50	9.80	12.60
R53.12		68.00	74.00	0.00	1.50	9.80	12.60
R33.7		26.00	48.00	-1.50	0.00	9.80	12.60
D4R36		68.00	77.00	-5.40	5.40	12.60	16.00
D4R37		77.00	84.00	-5.40	0.00	12.60	16.00

NAME	COMP.NAME	FRMIN #	FRMAX #	YMIN m	YMAX m	ZMIN m	ZMAX m
TOTAL							
SPORTING AREA RHO= 1 t/m3							
R131		224.00	249.00	-14.89	14.89	1.60	7.00
STORE GENERAL RHO= 0 t/m3							
D4R22		8.00	16.00	0.00	5.40	12.60	16.00
D4R29		8.00	16.00	5.40	13.50	12.60	16.00
D4R6		272.00	288.00	-15.66	15.66	12.60	16.00
D4R7		288.00	296.00	-12.61	12.61	12.60	16.00
R32.1		24.00	32.00	5.40	16.10	7.00	9.80
R32.2		32.00	48.00	5.40	16.10	7.00	9.80
R32.3		24.00	36.00	-5.40	4.00	7.00	9.80
R32.4		36.00	46.00	-5.40	4.00	7.00	9.80
R32.5		24.00	48.00	-16.10	-5.40	7.00	9.80
R42.1		48.00	68.00	5.40	16.10	7.00	9.80
R42.5		48.00	68.00	-16.10	-7.00	7.00	9.80
TOTAL							
WORK SHOP RHO= 0 t/m3							
D4R23		8.00	16.00	-9.50	0.00	12.60	16.00
TECHNICAL WATER RHO= 1 t/m3							
T24		77.00	80.00	-1.80	1.80	0.00	1.60
T29		72.00	91.00	-9.60	-6.60	0.80	1.60
T33		96.00	115.00	-2.00	2.00	-0.00	1.60
TOTAL							
VOID RHO= 0 t/m3							
D4R8		296.00	324.02	-10.32	10.32	12.60	16.00
R100		160.00	184.00	-14.45	14.45	-0.00	1.60
R101		160.00	184.00	-16.10	16.10	1.60	7.00
R110		184.00	204.00	-12.33	12.33	-0.00	1.60
R111		184.00	204.00	-12.50	12.50	1.60	7.00
R12		-12.77	4.00	-15.44	15.44	6.33	9.80
R141		249.00	272.00	-11.85	11.85	1.60	7.00
R31		24.00	48.00	-15.49	15.49	2.00	7.00
R40		48.00	68.00	-14.12	14.12	-0.00	2.00
R41		48.00	68.00	-16.10	16.10	2.00	7.00
R90		136.00	138.00	-9.60	9.60	0.00	1.60
R130		224.00	249.00	-11.81	11.81	-0.00	4.10
TOTAL							

5 Geometry Definitions

5.1 References

MAIN CHARACTERISTICS OF THE VESSEL:

Length betw. perpendiculars	216.80	m
Breadth, moulded	32.20	m
Design draught	7.20	m
X-coord. of after perpendicular	0.00	m
X-coord. of reference point	108.40	m
X-coord. of midship section	108.40	m
X-coord. of building frame 0	-0.00	m
Thickness of keelplate	0.010	m
Mean thickness of shell plating	0.010	m
Density of water	1.0250	ton/m3

5.2 Hull

Calculations are based on DAMHULL date 2009-04-23 time 7.36

X-coord. of aft end of DWL	-3.47	m
X-coord. of fore end of DWL	216.80	m

Parts:

STABHULL0	68491.0	m3	2009-04-23	plth	10.0 mm	102 sections
BOW1	-15.2	m3	2009-04-23	plth	0.0 mm	9 sections
BOW2	-17.6	m3	2009-04-23	plth	0.0 mm	9 sections
BOW3	-12.7	m3	2009-04-23	plth	0.0 mm	9 sections
BOW4	-12.9	m3	2009-04-23	plth	0.0 mm	9 sections
SHAFTP	18.4	m3	2009-04-23	plth	0.0 mm	23 sections
SHAFTS	18.4	m3	2009-04-23	plth	0.0 mm	0 sections
RUDDER	18.2	m3	2006-09-27	plth	0.0 mm	9 sections

6 Used Openings

RELEVANT OPENINGS

NAME	TEXT	CONNECT
ES10	ESS10 SB COMP10	R103.4, DAMHULL
ES13	ESS13 SB COMP13	R133.1, DAMHULL
ES4	ESS4 SB COMP4	R43.5, DAMHULL
ES7	ESS7 SB COMP7	R73.4, DAMHULL
HEW10	ESCAPE WAY COMP10	R103.5, DAMHULL
HEW11	ESCAPE WAY COMP11	R113.4, DAMHULL
HEW2	ESCAPE WAY COMP2	R23.8, DAMHULL
HEW3	ESCAPE WAY COMP3	R33.5, DAMHULL
HEW5-1	ESCAPE WAY COMP4	R53.2, DAMHULL
HEW5-2	ESCAPE WAY COMP4-2	R53.10, DAMHULL
HEW5-3	ESCAPE WAY COMP5-3	R53.5, DAMHULL
HEW6	ESCAPE WAY COMP6	R63.3, DAMHULL
HEW7	ESCAPE WAY COMP7	R73.5, DAMHULL
PB10P	PART BH10 P	R103.2, R113.1
PB10PT	PART BH10 P TOP	R103.2, R113.1
PB10S	PART BH10 S	R103.4, R113.2
PB10ST	PART BH10 S TOP	R103.4, R113.2
PB12P	PART BH12 P	R123.2, R133
PB12PT	PART BH12 P TOP	R123.2, R133
PB12S	PART BH12 S	R123.3, R133
PB12ST	PART BH12 S TOP	R123.3, R133
PB2P	PART BH2 P	R23.6, R33.6
PB2PT	PART BH2 P TOP	R23.6, R33.6
PB2S	PART BH2 S	R23.4, R33.3
PB2ST	PART BH2 S TOP	R23.4, R33.3
PB3P	PART BH3 P	R33.2, R43.1
PB3PT	PART BH3 P TOP	R33.2, R43.1
PB3S	PART BH3 S	R33.4, R43.2
PB3ST	PART BH3 S TOP	R33.4, R43.1
PB4P	PART BH4 P	R43.3, R53.2
PB4PT	PART BH4 P TOP	R43.3, R53.2
PB4S	PART BH4 S	R43.3, R53.3
PB4ST	PART BH4 S TOP	R43.3, R53.3
PB5P	PART BH5 P	R53.2, R63.1
PB5PT	PART BH5 P TOP	R53.2, R63.1
PB5S	PART BH5 SB TOP	R53.3, R63.2
PB5ST	PART BH5 SB	R53.3, R63.2
PB6P	PART BH6 P	R63.1, R73.1
PB6PT	PART BH6 P TOP	R63.1, R73.1
PB6S	PART BH6 S	R63, R73.2
PB6ST	PART BH6 S TOP	R63, R73.2
PB7P	PART BH7 P	R73.1, R83.1
PB7PT	PART BH7 P TOP	R73.1, R83.1

NAME	TEXT	CONNECT
PB7S	PART BH7 SB	R73.3, R83.2
PB7ST	PART BH7 SB TOP	R73.3, R83.2
PB8P	PART BH8 P	R83.5, R93.5
PB8PT	PART BH8 P TOP	R83.5, R93.5
PB8S	PART BH8 S	R83.4, R93.4
PB8ST	PART BH8 S TOP	R83.4, R93.4
PB9P	PART BH9 P	R93.1, R103.1
PB9PT	PART BH9 P TOP	R93.1, R103.1
PB9S	PART BH9 S	R93.1, R103.1
PB9ST	PART BH9 S TOP	R93.1, R103.1
ST103	ST103 SB COMP10	R103.4, R102
ST113	ST113 P COMP11	R113.4, R112
ST123	ST123 SB COMP12	R123.3, R122.1
ST133	ST133 SB COMP13	R133, R132
ST153P	ST143 P COMP15	R153, R152
ST153S	ST143 SB COMP15	R153, R152
ST23-1	ST23 1 P COMP2	R23.1, R21
ST23-2	ST23 2 P COMP2	R23.2, R22.1
ST33	ST33 P COMP3	R33.1, R32.2
ST43	ST43 SB COMP4	R43.5, R42.6
ST53S	ST53 SB COMP5	R53.4, R52.1
ST73	ST73 SB COMP7	R73.3, R72.3
ST83	ST83 SB COMP8	R83.2, R82
ST93	ST93 P COMP9	R93.5, R92

RELEVANT OPENINGS

NAME	X m	Y m	Z m	TYPE
ES10	123.60	-3.70	9.80	
ES13	160.20	-1.75	9.80	
ES4	45.60	-7.75	9.80	
ES7	78.95	-3.50	9.80	
HEW10	126.05	0.00	9.80	
HEW11	136.25	0.00	9.80	
HEW2	11.90	-0.75	9.80	
HEW3	17.50	-0.75	9.80	
HEW5-1	53.05	2.70	9.80	
HEW5-2	53.05	-3.45	9.80	
HEW5-3	55.50	-0.75	9.80	
HEW6	64.60	-0.75	9.80	
HEW7	73.00	-0.75	9.80	
PB10P	129.20	2.00	9.80	
PB10PT	129.20	16.10	12.80	
PB10S	129.20	-2.00	9.80	
PB10ST	129.20	-16.10	12.80	
PB12P	157.40	0.00	9.80	
PB12PT	157.40	16.10	12.80	

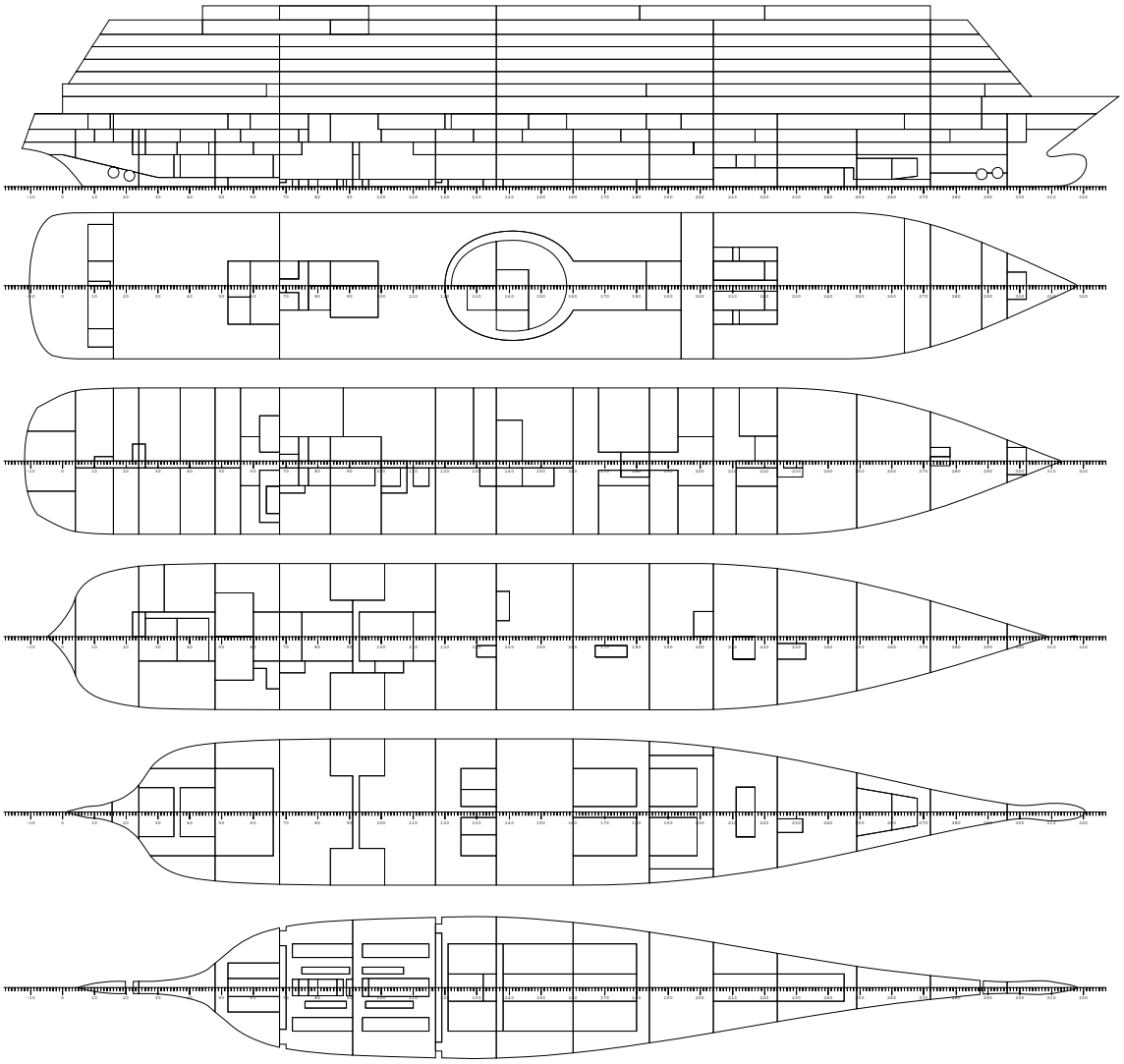
NAME	X m	Y m	Z m	TYPE
PB12S	157.40	-2.00	9.80	
PB12ST	157.40	-16.10	12.80	
PB2P	16.80	0.00	9.80	
PB2PT	16.80	16.10	12.80	
PB2S	16.80	-1.50	9.80	
PB2ST	16.80	-16.10	12.80	
PB3P	33.60	0.00	9.80	
PB3PT	33.60	16.10	12.80	
PB3S	33.60	-1.50	9.80	
PB3ST	33.60	-16.10	12.80	
PB4P	47.80	0.00	9.80	
PB4PT	47.80	16.10	12.80	
PB4S	47.80	-1.50	9.80	
PB4ST	47.80	-16.10	12.80	
PB5P	59.00	0.00	9.80	
PB5PT	61.80	16.10	12.80	
PB5S	59.00	-1.50	9.80	
PB5ST	59.00	-16.10	12.80	
PB6P	70.20	0.00	9.80	
PB6PT	70.20	16.10	12.80	
PB6S	70.20	-1.50	9.80	
PB6ST	70.20	-16.10	12.80	
PB7P	81.40	5.50	9.80	
PB7PT	81.40	16.10	12.80	
PB7S	81.40	-1.50	9.80	
PB7ST	81.40	-16.10	12.80	
PB8P	95.50	0.00	9.80	
PB8PT	95.50	16.10	12.80	
PB8S	95.50	-1.50	9.80	
PB8ST	95.50	-16.10	12.80	
PB9P	112.40	0.00	9.80	
PB9PT	112.40	16.10	12.80	
PB9S	112.40	-1.50	9.80	
PB9ST	112.40	-16.10	12.80	
ST103	125.70	-3.50	9.80	
ST113	143.30	5.00	9.80	
ST123	151.80	-4.00	9.80	
ST133	163.00	-3.00	9.80	
ST153P	195.40	3.00	9.80	
ST153S	195.40	-1.00	9.80	
ST23-1	7.00	1.50	9.80	
ST23-2	15.40	3.00	9.80	
ST33	16.80	3.00	9.60	
ST43	46.40	-10.00	9.60	
ST53S	47.80	-7.00	9.80	
ST73	70.20	-6.50	9.80	
ST83	92.60	-4.00	9.80	
ST93	95.50	8.00	9.80	

7 Subdivision

The vessel is devided into a number of watertight compartments below the bulkehead deck. Above the bulkhead deck the main fire bulkheads and a number of partial bulkheads are assumed to be of sufficient tightness to increase the residual stability after damage.

A detailed list of all spaces and the according damage zone can be found in the annex of this document (CLIM table).

7.1 Assumed subdivision:



7.2 Compartment Connections

Some of the rooms have compartment connections. These connections work in different ways and are defined in TAB*WTCOMP.

Rooms shown in column COMP in one line are flooded simultaneously.
Where in one line two rooms are given in columns COMP and CONN the water

will flow only in one direction from CONN to COMP.
Where a stage is given, flooding will take place in a seperate stage.
Internal non-watertight boundaries which seperate large volumes within
a watertight compartment are connected in such a way that they are flooded
in seperate stages (INT1, INT2, INT3).
Where an opening in the column OPENING is given, crossflooding according
A.266 will be assumed and the minimum time of 10 minutes will be checked.

7.2.1 Simultaneously flooded rooms

NAME	ZONE	LLIMIT	ULIMIT	PURP
R100	Z12	-	DK1	VOID
R101	Z12	DK1	-	VOID
R102	Z12	DK1	-	CCA
R102.1	Z12	DK1	-	CST
R103.1	Z12	DK1	-	SRV
R103.2	Z12	DK1	-	CCA
R103.3	Z12	DK1	-	CCA
R103.4	Z12	DK1	-	SRV
R110	Z13	-	DK1	VOID
R111	Z13	DK1	-	VOID
R112	Z13	DK1	-	CCA
R112.1	Z13	DK1	-	PST
R113.1	Z13	DK1	-	CCA
R113.2	Z13	DK1	-	CCA
R113.3	Z13	DK1	-	SRV
R12	Z1	DK1	-	VOID
R121	Z14	DK1	-	SLA
R121.1	Z14	DK1	-	CST
R122	Z14	DK1	-	CCA
R122.1	Z14	DK1	-	CST
R123	Z14	DK1	-	PCO
R123.1	Z14	DK1	-	CCA
R123.2	Z14	DK1	-	MES
R123.3	Z14	DK1	-	CST
R123.4	Z14	DK1	-	CCA
R13.1	Z1	DK1	-	EQP
R13.2	Z1	DK1	-	EQP
R13.3	Z1	DK1	-	EQP
R131	Z15	DK1	-	SSP
R131.1	Z15	DK1	-	CST
R132	Z15	DK1	-	CCA
R132.1	Z15	DK1	-	CST
R133	Z15	DK1	-	CCA
R140	Z16	-	DK1	DRY
R141	Z16	DK1	-	VOID
R142	Z16	DK1	-	CCA
R143	Z16	DK1	-	CCA
R151	Z17	DK1	-	EQP
R153	Z17	DK1	-	CCA
R153.1	Z17	DK1	-	CST
R21	Z2	DK1	-	EQP
R22.1	Z2	DK1	-	CST
R23.1	Z2	DK1	-	SRE
R23.2	Z2	DK1	-	SRE
R23.3	Z2	DK1	-	SRE
R23.4	Z2	DK1	-	SRE
R23.5	Z2	DK1	-	SRV
R23.6	Z2	DK1	-	CST

R23.7	Z2	DK1	-	CST
R30	Z3	-	DK1	DRY
R31	Z3	DK1	-	VOID
R32.1	Z3	DK1	-	SST
R32.2	Z3	DK1	-	SST
R32.3	Z3	DK1	-	SST
R32.4	Z3	DK1	-	SST
R32.5	Z3	DK1	-	SST
R32.6	Z3	DK1	-	SRV
R32.7	Z3	DK1	-	CST
R33.1	Z3	DK1	-	SRE

NAME	ZONE	LLIMIT	ULIMIT	PURP
R33.2	Z3	DK1	-	SRE
R33.3	Z3	DK1	-	SRE
R33.4	Z3	DK1	-	SRE
R33.5	Z3	DK1	-	SRV
R33.6	Z3	DK1	-	CST
R40	Z4	-	DK1	VOID
R41	Z4	DK1	-	VOID
R41.1	Z4	DK1	-	EQP
R41.2	Z4	DK1	-	EQP
R42.1	Z4	DK1	-	SST
R42.2	Z4	DK1	-	EQP
R42.3	Z4	DK1	-	EQP
R42.4	Z4	DK1	-	CST
R42.5	Z4	DK1	-	SST
R42.6	Z4	DK1	-	CST
R43.1	Z4	DK1	-	SRE
R43.2	Z4	DK1	-	SRE
R43.3	Z4	DK1	-	SRE
R43.4	Z4	DK1	-	MES
R43.5	Z4	DK1	-	SRV
R43.6	Z4	DK1	-	SRV
R50	Z5-6	-	DK1	DRY
R51	Z5-6	DK1	-	EQP
R52.1	Z5-6	DK1	-	EQP
R52.2	Z5	DK1	-	MES
R52.3	Z5	DK1	-	CST
R53.1	Z5-6	DK1	-	GAL
R53.2	Z5	DK1	-	SRV
R53.4	Z5	DK1	-	EQP
R53.5	Z5	DK1	-	SRV
R53.6	Z5	DK1	-	CST
R60	Z7-9	-	DK1	DRY
R61	Z6-8	DK1	-	EQP
R63	Z6-8	DK1	-	EQP
R63.3	Z6-8	DK1	-	SRV
R71	Z8-9	DK1	-	EQP
R72	Z7-9/7-8	DK1	-	EQP
R72.1	Z9	DK1	-	EQP
R72.2	Z8-9	DK1	-	CST
R73.1	Z6-9	DK1	-	CME
R73.2	Z8-9	DK1	-	MES
R73.3	Z8-9	DK1	-	SLI
R73.4	Z9	DK1	-	SRV
R73.5	Z9	DK1	-	SRV
R73.6	Z8-9	DK1	-	CST
R80	Z10	-	DK1	DRY
R81	Z10	DK1	-	EQP
R82	Z10	DK1	-	CCA
R82.1	Z10	DK1	-	CST
R83.1	Z10	DK1	-	CME
R83.2	Z10	DK1	-	CCA
R83.3	Z10	DK1	-	SRV
R83.4	Z10	DK1	-	CST
R83.5	Z10	DK1	-	CCA
R90	Z11	-	DK1	VOID
R91	Z11	DK1	-	EQP
R92	Z11	DK1	-	CCA
R92.1	Z11	DK1	-	CST

R93.1	Z11	DK1	-	CCA
R93.2	Z11	DK1	-	CCA

NAME	ZONE	LLIMIT	ULIMIT	PURP
R93.3	Z11	DK1	-	MES
R93.4	Z11	DK1	-	CST
R93.5	Z11	DK1	-	CST
T0	Z1-2	-	DK1	BW
T1	Z18	-	-	BW
T10	Z10	DK1	-	HFO
T11	Z12	DK1	-	HFO
T12	Z12	DK1	-	HFO
T13	Z13	DK1	-	PW
T14	Z13	DK1	-	PW
T15	Z13	DK1	-	HW
T16	Z13	DK1	-	HW
T17	Z4	-	DK1	DO
T18	Z4	-	DK1	SPEC
T19	Z4	-	DK1	LO
T2	Z3	DK1	-	HW
T20	Z5-6	-	DK1	LO
T21	Z5-6	-	DK1	LO
T22	Z5	-	DK1	SPEC
T23	Z5	-	DK1	SPEC
T24	Z5	-	DK1	TW
T25	Z5-6	-	DK1	SPEC
T26	Z6	-	DK1	SPEC
T27	Z6	-	DK1	LO
T28	Z5-6	-	DK1	LO
T29	Z5-6	-	DK1	TW
T3	Z3	DK1	-	HFO
T30	Z8-9	-	DK1	SPEC
T31	Z8-9	-	DK1	LO
T32	Z8	-	DK1	SPEC
T33	Z8-9	-	DK1	TW
T34	Z8-9	-	DK1	LO
T35	Z8-9	-	DK1	LO
T36	Z10	-	DK1	BW
T37	Z10	-	-	SPEC
T38	Z11	-	DK1	BW
T4	Z3	DK1	-	GO
T40	Z11	-	DK1	GW
T41	Z11	-	DK1	BW
T42	Z12	-	DK1	BW
T43	Z14	-	DK1	GW
T44	Z14	-	DK1	GW
T47	Z17	-	DK1	BW
T48	Z12	-	DK1	BW
T49	Z12	-	DK1	BW
T5	Z3	DK1	-	GO
T50	Z10	-	DK1	BW
T51	Z10	-	DK1	BW
T52	Z3	DK1	-	HFO
T53	Z11	-	DK1	GW
T54	Z11	-	DK1	GW
T6	Z3	DK1	-	HW
T7	Z10	DK1	-	HFO
T8	Z10	DK1	-	HFO
T9	Z10	DK1	-	HFO
T55	Z15	-	DK1	BW
R130	Z15	-	DK1	VOID
T45	Z14	-	DK1	GW

T56	Z16	DK1	-	PW
T57	Z16	DK1	-	PW

NAME	ZONE	LLIMIT	ULIMIT	PURP
R152	Z17	DK1	-	EQP
R72.3	Z9	DK1	-	EQP
R50.1	Z5	-	DK1	DRY
R80.1	Z10	-	DK1	DRY
R23.8	Z2	DK1	-	SRV
R43.7	Z4	DK1	-	SRV
R43.8	Z4	DK1	-	SRV
R113.4	Z13	DK1	-	SRV
R113.5	Z13	DK1	-	SRV
R103.5	Z12	DK1	-	SRV
R73.7	Z8-9	DK1	-	SRV
R53.7	Z5	DK1	-	SRV
R123.5	Z14	DK1	-	SRV
R133.1	Z15	DK1	-	SRV
R133.2	Z15	DK1	-	SRV
R103.6	Z12	DK1	-	CST
R43.9	Z4	DK1	-	CST
R53.10	Z5	DK1	-	SRV
R53.11	Z5	DK1	-	SRV
R53.12	Z5	DK1	-	SRV
R153.2	Z17	DK1	-	CST
R33.7	Z3	DK1	-	SRV

7.2.2 Rooms flooded in stages

NAME	ZONE	LLIMIT	ULIMIT	PURP
R100	Z12	-	DK1	VOID
R101	Z12	DK1	-	VOID
R102	Z12	DK1	-	CCA
R102.1	Z12	DK1	-	CST
R103.1	Z12	DK1	-	SRV
R103.2	Z12	DK1	-	CCA
R103.3	Z12	DK1	-	CCA
R103.4	Z12	DK1	-	SRV
R110	Z13	-	DK1	VOID
R111	Z13	DK1	-	VOID
R112	Z13	DK1	-	CCA
R112.1	Z13	DK1	-	PST
R113.1	Z13	DK1	-	CCA
R113.2	Z13	DK1	-	CCA
R113.3	Z13	DK1	-	SRV
R12	Z1	DK1	-	VOID
R121	Z14	DK1	-	SLA
R121.1	Z14	DK1	-	CST
R122	Z14	DK1	-	CCA
R122.1	Z14	DK1	-	CST
R123	Z14	DK1	-	PCO
R123.1	Z14	DK1	-	CCA
R123.2	Z14	DK1	-	MES
R123.3	Z14	DK1	-	CST
R123.4	Z14	DK1	-	CCA
R13.1	Z1	DK1	-	EQP
R13.2	Z1	DK1	-	EQP
R13.3	Z1	DK1	-	EQP
R131	Z15	DK1	-	SSP
R131.1	Z15	DK1	-	CST
R132	Z15	DK1	-	CCA
R132.1	Z15	DK1	-	CST
R133	Z15	DK1	-	CCA
R140	Z16	-	DK1	DRY
R141	Z16	DK1	-	VOID

NAME	ZONE	LLIMIT	ULIMIT	PURP
R142	Z16	DK1	-	CCA
R143	Z16	DK1	-	CCA
R151	Z17	DK1	-	EQP
R153	Z17	DK1	-	CCA
R153.1	Z17	DK1	-	CST
R21	Z2	DK1	-	EQP
R22.1	Z2	DK1	-	CST
R23.1	Z2	DK1	-	SRE
R23.2	Z2	DK1	-	SRE
R23.3	Z2	DK1	-	SRE
R23.4	Z2	DK1	-	SRE
R23.5	Z2	DK1	-	SRV
R23.6	Z2	DK1	-	CST
R23.7	Z2	DK1	-	CST
R30	Z3	-	DK1	DRY
R31	Z3	DK1	-	VOID
R32.1	Z3	DK1	-	SST
R32.2	Z3	DK1	-	SST
R32.3	Z3	DK1	-	SST
R32.4	Z3	DK1	-	SST
R32.5	Z3	DK1	-	SST
R32.6	Z3	DK1	-	SRV
R32.7	Z3	DK1	-	CST
R33.1	Z3	DK1	-	SRE
R33.2	Z3	DK1	-	SRE
R33.3	Z3	DK1	-	SRE
R33.4	Z3	DK1	-	SRE
R33.5	Z3	DK1	-	SRV
R33.6	Z3	DK1	-	CST
R40	Z4	-	DK1	VOID
R41	Z4	DK1	-	VOID
R41.1	Z4	DK1	-	EQP
R41.2	Z4	DK1	-	EQP
R42.1	Z4	DK1	-	SST
R42.2	Z4	DK1	-	EQP
R42.3	Z4	DK1	-	EQP
R42.4	Z4	DK1	-	CST
R42.5	Z4	DK1	-	SST
R42.6	Z4	DK1	-	CST
R43.1	Z4	DK1	-	SRE
R43.2	Z4	DK1	-	SRE
R43.3	Z4	DK1	-	SRE
R43.4	Z4	DK1	-	MES
R43.5	Z4	DK1	-	SRV
R43.6	Z4	DK1	-	SRV
R50	Z5-6	-	DK1	DRY
R51	Z5-6	DK1	-	EQP
R52.1	Z5-6	DK1	-	EQP
R52.2	Z5	DK1	-	MES
R52.3	Z5	DK1	-	CST
R53.1	Z5-6	DK1	-	GAL
R53.2	Z5	DK1	-	SRV
R53.4	Z5	DK1	-	EQP
R53.5	Z5	DK1	-	SRV
R53.6	Z5	DK1	-	CST
R60	Z7-9	-	DK1	DRY
R61	Z6-8	DK1	-	EQP
R63	Z6-8	DK1	-	EQP

R63.3	Z6-8	DK1	-	SRV
R71	Z8-9	DK1	-	EQP

NAME	ZONE	LLIMIT	ULIMIT	PURP
R72	Z7-9/7-8	DK1	-	EQP
R72.1	Z9	DK1	-	EQP
R72.2	Z8-9	DK1	-	CST
R73.1	Z6-9	DK1	-	CME
R73.2	Z8-9	DK1	-	MES
R73.3	Z8-9	DK1	-	SLI
R73.4	Z9	DK1	-	SRV
R73.5	Z9	DK1	-	SRV
R73.6	Z8-9	DK1	-	CST
R80	Z10	-	DK1	DRY
R81	Z10	DK1	-	EQP
R82	Z10	DK1	-	CCA
R82.1	Z10	DK1	-	CST
R83.1	Z10	DK1	-	CME
R83.2	Z10	DK1	-	CCA
R83.3	Z10	DK1	-	SRV
R83.4	Z10	DK1	-	CST
R83.5	Z10	DK1	-	CCA
R90	Z11	-	DK1	VOID
R91	Z11	DK1	-	EQP
R92	Z11	DK1	-	CCA
R92.1	Z11	DK1	-	CST
R93.1	Z11	DK1	-	CCA
R93.2	Z11	DK1	-	CCA
R93.3	Z11	DK1	-	MES
R93.4	Z11	DK1	-	CST
R93.5	Z11	DK1	-	CST
T0	Z1-2	-	DK1	BW
T1	Z18	-	-	BW
T10	Z10	DK1	-	HFO
T11	Z12	DK1	-	HFO
T12	Z12	DK1	-	HFO
T13	Z13	DK1	-	PW
T14	Z13	DK1	-	PW
T15	Z13	DK1	-	HW
T16	Z13	DK1	-	HW
T17	Z4	-	DK1	DO
T18	Z4	-	DK1	SPEC
T19	Z4	-	DK1	LO
T2	Z3	DK1	-	HW
T20	Z5-6	-	DK1	LO
T21	Z5-6	-	DK1	LO
T22	Z5	-	DK1	SPEC
T23	Z5	-	DK1	SPEC
T24	Z5	-	DK1	TW
T25	Z5-6	-	DK1	SPEC
T26	Z6	-	DK1	SPEC
T27	Z6	-	DK1	LO
T28	Z5-6	-	DK1	LO
T29	Z5-6	-	DK1	TW
T3	Z3	DK1	-	HFO
T30	Z8-9	-	DK1	SPEC
T31	Z8-9	-	DK1	LO
T32	Z8	-	DK1	SPEC
T33	Z8-9	-	DK1	TW
T34	Z8-9	-	DK1	LO
T35	Z8-9	-	DK1	LO
T36	Z10	-	DK1	BW

T37	Z10	-	-	SPEC
T38	Z11	-	DK1	BW

NAME	ZONE	LLIMIT	ULIMIT	PURP
T4	Z3	DK1	-	GO
T40	Z11	-	DK1	GW
T41	Z11	-	DK1	BW
T42	Z12	-	DK1	BW
T43	Z14	-	DK1	GW
T44	Z14	-	DK1	GW
T47	Z17	-	DK1	BW
T48	Z12	-	DK1	BW
T49	Z12	-	DK1	BW
T5	Z3	DK1	-	GO
T50	Z10	-	DK1	BW
T51	Z10	-	DK1	BW
T52	Z3	DK1	-	HFO
T53	Z11	-	DK1	GW
T54	Z11	-	DK1	GW
T6	Z3	DK1	-	HW
T7	Z10	DK1	-	HFO
T8	Z10	DK1	-	HFO
T9	Z10	DK1	-	HFO
T55	Z15	-	DK1	BW
R130	Z15	-	DK1	VOID
T45	Z14	-	DK1	GW
T56	Z16	DK1	-	PW
T57	Z16	DK1	-	PW
R152	Z17	DK1	-	EQP
R72.3	Z9	DK1	-	EQP
R50.1	Z5	-	DK1	DRY
R80.1	Z10	-	DK1	DRY
R23.8	Z2	DK1	-	SRV
R43.7	Z4	DK1	-	SRV
R43.8	Z4	DK1	-	SRV
R113.4	Z13	DK1	-	SRV
R113.5	Z13	DK1	-	SRV
R103.5	Z12	DK1	-	SRV
R73.7	Z8-9	DK1	-	SRV
R53.7	Z5	DK1	-	SRV
R123.5	Z14	DK1	-	SRV
R133.1	Z15	DK1	-	SRV
R133.2	Z15	DK1	-	SRV
R103.6	Z12	DK1	-	CST
R43.9	Z4	DK1	-	CST
R53.10	Z5	DK1	-	SRV
R53.11	Z5	DK1	-	SRV
R53.12	Z5	DK1	-	SRV
R153.2	Z17	DK1	-	CST
R33.7	Z3	DK1	-	SRV

7.2.3 Crossflooded rooms

NAME	ZONE	LLIMIT	ULIMIT	PURP
R100	Z12	-	DK1	VOID
R101	Z12	DK1	-	VOID
R102	Z12	DK1	-	CCA
R102.1	Z12	DK1	-	CST
R103.1	Z12	DK1	-	SRV
R103.2	Z12	DK1	-	CCA
R103.3	Z12	DK1	-	CCA
R103.4	Z12	DK1	-	SRV
R110	Z13	-	DK1	VOID
R111	Z13	DK1	-	VOID
R112	Z13	DK1	-	CCA

NAME	ZONE	LLIMIT	ULIMIT	PURP
R112.1	Z13	DK1	-	PST
R113.1	Z13	DK1	-	CCA
R113.2	Z13	DK1	-	CCA
R113.3	Z13	DK1	-	SRV
R12	Z1	DK1	-	VOID
R121	Z14	DK1	-	SLA
R121.1	Z14	DK1	-	CST
R122	Z14	DK1	-	CCA
R122.1	Z14	DK1	-	CST
R123	Z14	DK1	-	PCO
R123.1	Z14	DK1	-	CCA
R123.2	Z14	DK1	-	MES
R123.3	Z14	DK1	-	CST
R123.4	Z14	DK1	-	CCA
R13.1	Z1	DK1	-	EQP
R13.2	Z1	DK1	-	EQP
R13.3	Z1	DK1	-	EQP
R131	Z15	DK1	-	SSP
R131.1	Z15	DK1	-	CST
R132	Z15	DK1	-	CCA
R132.1	Z15	DK1	-	CST
R133	Z15	DK1	-	CCA
R140	Z16	-	DK1	DRY
R141	Z16	DK1	-	VOID
R142	Z16	DK1	-	CCA
R143	Z16	DK1	-	CCA
R151	Z17	DK1	-	EQP
R153	Z17	DK1	-	CCA
R153.1	Z17	DK1	-	CST
R21	Z2	DK1	-	EQP
R22.1	Z2	DK1	-	CST
R23.1	Z2	DK1	-	SRE
R23.2	Z2	DK1	-	SRE
R23.3	Z2	DK1	-	SRE
R23.4	Z2	DK1	-	SRE
R23.5	Z2	DK1	-	SRV
R23.6	Z2	DK1	-	CST
R23.7	Z2	DK1	-	CST
R30	Z3	-	DK1	DRY
R31	Z3	DK1	-	VOID
R32.1	Z3	DK1	-	SST
R32.2	Z3	DK1	-	SST
R32.3	Z3	DK1	-	SST
R32.4	Z3	DK1	-	SST
R32.5	Z3	DK1	-	SST
R32.6	Z3	DK1	-	SRV
R32.7	Z3	DK1	-	CST
R33.1	Z3	DK1	-	SRE
R33.2	Z3	DK1	-	SRE
R33.3	Z3	DK1	-	SRE
R33.4	Z3	DK1	-	SRE
R33.5	Z3	DK1	-	SRV
R33.6	Z3	DK1	-	CST
R40	Z4	-	DK1	VOID
R41	Z4	DK1	-	VOID
R41.1	Z4	DK1	-	EQP
R41.2	Z4	DK1	-	EQP
R42.1	Z4	DK1	-	SST

R42.2	Z4	DK1	-	EQP
R42.3	Z4	DK1	-	EQP

NAME	ZONE	LLIMIT	ULIMIT	PURP
R42.4	Z4	DK1	-	CST
R42.5	Z4	DK1	-	SST
R42.6	Z4	DK1	-	CST
R43.1	Z4	DK1	-	SRE
R43.2	Z4	DK1	-	SRE
R43.3	Z4	DK1	-	SRE
R43.4	Z4	DK1	-	MES
R43.5	Z4	DK1	-	SRV
R43.6	Z4	DK1	-	SRV
R50	Z5-6	-	DK1	DRY
R51	Z5-6	DK1	-	EQP
R52.1	Z5-6	DK1	-	EQP
R52.2	Z5	DK1	-	MES
R52.3	Z5	DK1	-	CST
R53.1	Z5-6	DK1	-	GAL
R53.2	Z5	DK1	-	SRV
R53.4	Z5	DK1	-	EQP
R53.5	Z5	DK1	-	SRV
R53.6	Z5	DK1	-	CST
R60	Z7-9	-	DK1	DRY
R61	Z6-8	DK1	-	EQP
R63	Z6-8	DK1	-	EQP
R63.3	Z6-8	DK1	-	SRV
R71	Z8-9	DK1	-	EQP
R72	Z7-9/7-8	DK1	-	EQP
R72.1	Z9	DK1	-	EQP
R72.2	Z8-9	DK1	-	CST
R73.1	Z6-9	DK1	-	CME
R73.2	Z8-9	DK1	-	MES
R73.3	Z8-9	DK1	-	SLI
R73.4	Z9	DK1	-	SRV
R73.5	Z9	DK1	-	SRV
R73.6	Z8-9	DK1	-	CST
R80	Z10	-	DK1	DRY
R81	Z10	DK1	-	EQP
R82	Z10	DK1	-	CCA
R82.1	Z10	DK1	-	CST
R83.1	Z10	DK1	-	CME
R83.2	Z10	DK1	-	CCA
R83.3	Z10	DK1	-	SRV
R83.4	Z10	DK1	-	CST
R83.5	Z10	DK1	-	CCA
R90	Z11	-	DK1	VOID
R91	Z11	DK1	-	EQP
R92	Z11	DK1	-	CCA
R92.1	Z11	DK1	-	CST
R93.1	Z11	DK1	-	CCA
R93.2	Z11	DK1	-	CCA
R93.3	Z11	DK1	-	MES
R93.4	Z11	DK1	-	CST
R93.5	Z11	DK1	-	CST
T0	Z1-2	-	DK1	BW
T1	Z18	-	-	BW
T10	Z10	DK1	-	HFO
T11	Z12	DK1	-	HFO
T12	Z12	DK1	-	HFO
T13	Z13	DK1	-	PW
T14	Z13	DK1	-	PW

T15	Z13	DK1	-	HW
T16	Z13	DK1	-	HW

NAME	ZONE	LLIMIT	ULIMIT	PURP
T17	Z4	-	DK1	DO
T18	Z4	-	DK1	SPEC
T19	Z4	-	DK1	LO
T2	Z3	DK1	-	HW
T20	Z5-6	-	DK1	LO
T21	Z5-6	-	DK1	LO
T22	Z5	-	DK1	SPEC
T23	Z5	-	DK1	SPEC
T24	Z5	-	DK1	TW
T25	Z5-6	-	DK1	SPEC
T26	Z6	-	DK1	SPEC
T27	Z6	-	DK1	LO
T28	Z5-6	-	DK1	LO
T29	Z5-6	-	DK1	TW
T3	Z3	DK1	-	HFO
T30	Z8-9	-	DK1	SPEC
T31	Z8-9	-	DK1	LO
T32	Z8	-	DK1	SPEC
T33	Z8-9	-	DK1	TW
T34	Z8-9	-	DK1	LO
T35	Z8-9	-	DK1	LO
T36	Z10	-	DK1	BW
T37	Z10	-	-	SPEC
T38	Z11	-	DK1	BW
T4	Z3	DK1	-	GO
T40	Z11	-	DK1	GW
T41	Z11	-	DK1	BW
T42	Z12	-	DK1	BW
T43	Z14	-	DK1	GW
T44	Z14	-	DK1	GW
T47	Z17	-	DK1	BW
T48	Z12	-	DK1	BW
T49	Z12	-	DK1	BW
T5	Z3	DK1	-	GO
T50	Z10	-	DK1	BW
T51	Z10	-	DK1	BW
T52	Z3	DK1	-	HFO
T53	Z11	-	DK1	GW
T54	Z11	-	DK1	GW
T6	Z3	DK1	-	HW
T7	Z10	DK1	-	HFO
T8	Z10	DK1	-	HFO
T9	Z10	DK1	-	HFO
T55	Z15	-	DK1	BW
R130	Z15	-	DK1	VOID
T45	Z14	-	DK1	GW
T56	Z16	DK1	-	PW
T57	Z16	DK1	-	PW
R152	Z17	DK1	-	EQP
R72.3	Z9	DK1	-	EQP
R50.1	Z5	-	DK1	DRY
R80.1	Z10	-	DK1	DRY
R23.8	Z2	DK1	-	SRV
R43.7	Z4	DK1	-	SRV
R43.8	Z4	DK1	-	SRV
R113.4	Z13	DK1	-	SRV
R113.5	Z13	DK1	-	SRV
R103.5	Z12	DK1	-	SRV

R73.7	Z8-9	DK1	-	SRV
R53.7	Z5	DK1	-	SRV

NAME	ZONE	LLIMIT	ULIMIT	PURP
R123.5	Z14	DK1	-	SRV
R133.1	Z15	DK1	-	SRV
R133.2	Z15	DK1	-	SRV
R103.6	Z12	DK1	-	CST
R43.9	Z4	DK1	-	CST
R53.10	Z5	DK1	-	SRV
R53.11	Z5	DK1	-	SRV
R53.12	Z5	DK1	-	SRV
R153.2	Z17	DK1	-	CST
R33.7	Z3	DK1	-	SRV

8 Crossflooding

Following rooms are connected with crossflooding arrangements.

The calcuation of the required size of the crossflooding pipes
to maintain the required time for crossflooding has been done according
IMO resolution MSC.245(83).

T41 <---> T38
t45 <---> T43

9 Initial Condition

9.1 Summary Table

The following table shows the way how the attained index is calculated for the initial conditions.
Basically for each draught damages on both sides will be calculated and via the weight factors the mean value will be achieved.

INIT	DAMTAB	WCOEF	SUBD
DS	DAMP	0.200	SOLAS
DP	DAMP	0.200	SOLAS
DL	DAMP	0.100	SOLAS
DS	DAMS	0.200	SOLAS
DP	DAMS	0.200	SOLAS
DL	DAMS	0.100	SOLAS

9.2 Initial Case Definitions

INITIAL CONDITIONS

INIT		DS	DP	DL
T0	m	7.400	7.200	6.890
TR0	m	0.000	0.000	0.120
GM0	m	2.720	2.620	2.670

Initial condition : DS
Damage case : NO-DAMAGE
Stage of damage : INTACT
Phase of stage : EQ

HEEL degree	GZ m	EPHI rad*m	T m	TR m
0.0	0.000	0.000	7.400	0.000
1.0	0.047	0.000	7.398	-0.001
3.0	0.142	0.004	7.383	-0.007
5.0	0.237	0.010	7.353	-0.018
7.0	0.333	0.020	7.308	-0.034
10.0	0.478	0.042	7.213	-0.063
12.0	0.575	0.060	7.131	-0.086
15.0	0.720	0.094	6.978	-0.120
20.0	0.935	0.166	6.646	-0.186
30.0	0.509	0.312	5.968	-0.234
40.0	-0.697	0.300	5.224	-0.268

Initial condition : DP
Damage case : NO-DAMAGE
Stage of damage : INTACT
Phase of stage : EQ

HEEL degree	GZ m	EPHI rad*m	T m	TR m
0.0	0.000	0.000	7.200	0.000
1.0	0.046	0.000	7.198	-0.001
3.0	0.137	0.004	7.183	-0.008
5.0	0.229	0.010	7.153	-0.019
7.0	0.322	0.020	7.109	-0.035
10.0	0.461	0.040	7.014	-0.067
12.0	0.555	0.058	6.932	-0.096
15.0	0.694	0.091	6.780	-0.135

HEEL degree	GZ m	EPHI rad*m	T m	TR m
20.0	0.902	0.161	6.442	-0.206
30.0	0.508	0.302	5.708	-0.305
40.0	-0.730	0.290	4.906	-0.406

Initial condition : DL
Damage case : NO-DAMAGE
Stage of damage : INTACT
Phase of stage : EQ

HEEL degree	GZ m	EPHI rad*m	T m	TR m
0.0	0.000	0.000	6.890	0.120
1.0	0.047	0.000	6.888	0.119
3.0	0.140	0.004	6.873	0.112
5.0	0.234	0.010	6.844	0.099
7.0	0.328	0.020	6.799	0.082
10.0	0.470	0.041	6.705	0.049
12.0	0.565	0.059	6.623	0.022
15.0	0.703	0.092	6.471	-0.025
20.0	0.902	0.163	6.131	-0.115
30.0	0.581	0.309	5.317	-0.269
40.0	-0.679	0.311	4.430	-0.449

10 External Moments acc. MSC194(80) Reg.7-2

10.1 Moment due to Passenger Crowding

2000 Passengers, 4 person/m2, 75 kg/person
Leverarm 0.45 * B = 14.49 m

Moment by crowding of Passengers = 2173.5 mt

10.2 Moment due to Launching of Boats

NO	DES	NPASS	MASS t	CGY m	MOM tm
4	LIFEBOAT	150	16.950	3.00	203.4
2	TENDER	150	26.650	3.50	186.6
18	INSEL	35	2.625	0.00	0.0
			46.225		390.0

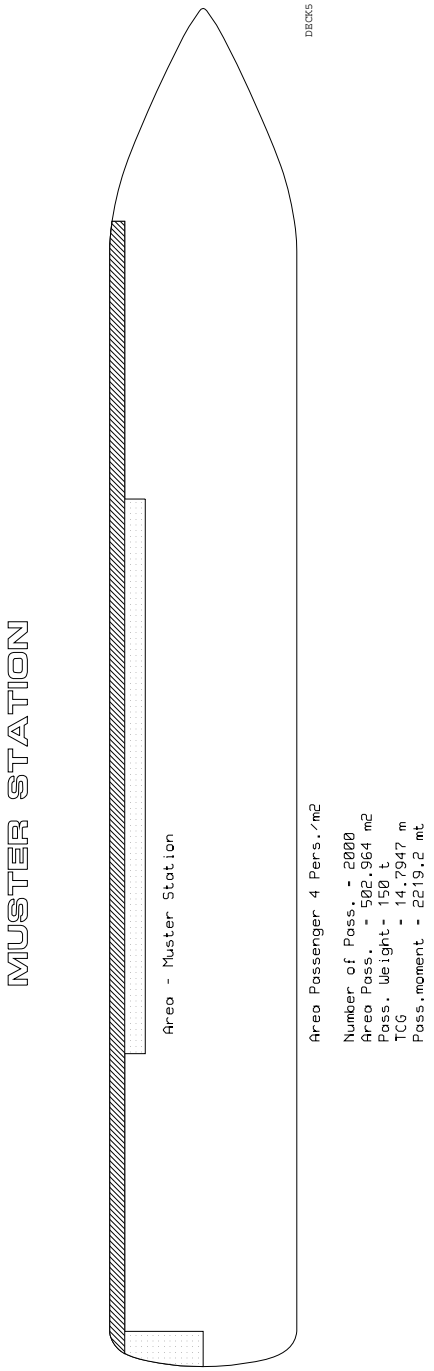
Moment due to launching of lifeboats = 390.0 mt

10.3 Moment due to Wind

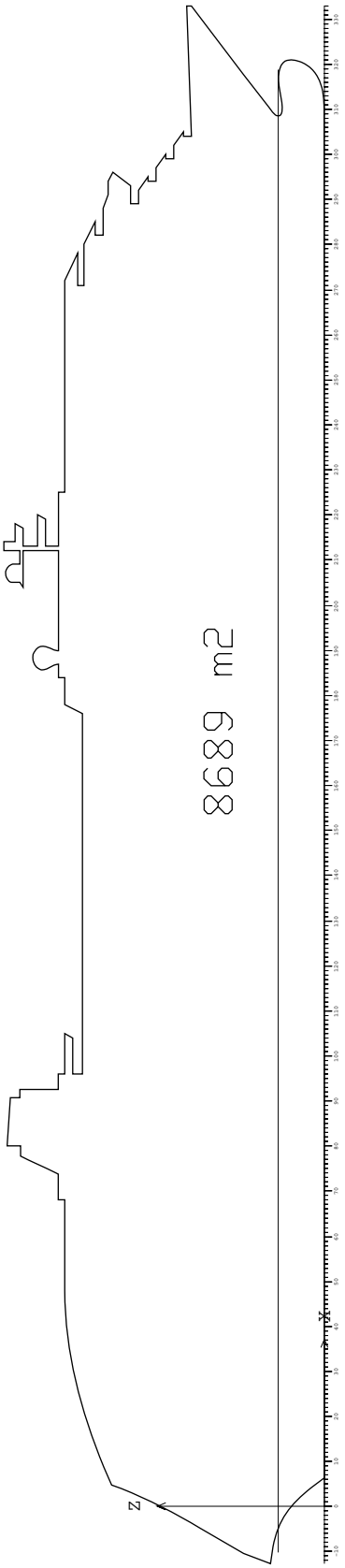
Moment = 0.12 * Area * Leverarm / 9.81

The area and leverarm will be calculated inside the program for each initial condition based on the defined lateral profile.

10.4 Figure of the Musterstation



10.5 Figure of the Wind Profile



11 Required Index R

The required index is calculated according regulation 6

R = 1 - 5000 / (Ls + 2.5*N + 15225)

where:

Ls = 234.443 Subdivision length
N = N1 + 2* N2
N1 = 1800 persons in lifeboats
N2 = 600 persons in excess of N1

12 Result of Probalistic Calculation

12.1 Summary of Index

ATTAINED AND REQUIRED SUBDIVISION INDEX

Subdivision length	234.443 m
Breadth at the load line	32.200 m
Breadth at the bulkhead deck	32.200 m
Number of persons N1	1800
Number of persons N2	600

Required subdivision index R = 0.78222

Attained subdivision index A = 0.80005

INIT	DAMTAB	T m	GM m	A/R	A	A*WCOEF	WCOEF
DL	DAMP	6.890	2.666	1.06	0.82605	0.08261	0.100
DL	DAMS	6.890	2.666	1.04	0.81332	0.08133	0.100
DP	DAMP	7.200	2.620	1.04	0.81133	0.16227	0.200
DP	DAMS	7.200	2.620	1.01	0.78937	0.15787	0.200
DS	DAMP	7.400	2.721	1.02	0.79947	0.15989	0.200
DS	DAMS	7.400	2.721	1.00	0.78038	0.15608	0.200

12.2 Contribution of Multizone Damages

INDEX ACCORDING TO NUMBER OF ZONES

DAMAGES	W*P*V*S	W*P*V
1-ZONE DAMAGES	0.33368	0.33419
2-ZONE DAMAGES	0.35504	0.37237
3-ZONE DAMAGES	0.07078	0.13653
4-ZONE DAMAGES	0.02003	0.04802
5-ZONE DAMAGES	0.01531	0.02373
6-ZONE DAMAGES	0.00521	0.01308
A-INDEX TOTAL	0.80005	0.92792

12.2.1 Subdivision Draught DS

RESULTS

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FACSOL	CROSSTM s
DS/P1.1.0-1	FIRST	1	PS	7.401	0.010	0.0	0.05	7.0	1.0000	-
DS/P1.1.0-1	FIRST	2	PS	7.402	0.021	0.0	0.05	7.0	1.0000	-
DS/P1.1.0-1	FIRST	EQ	PS	7.403	0.032	0.0	0.12	16.0	1.0000	-
DS/P1.2.0-1	FIRST	1	PS	7.401	0.010	0.0	0.05	7.0	1.0000	-
DS/P1.2.0-1	FIRST	2	PS	7.402	0.021	0.0	0.05	7.0	1.0000	-
DS/P1.2.0-1	FIRST	EQ	PS	7.403	0.032	0.0	0.12	16.0	1.0000	-
DS/P2.1.0-1	FIRST	1	PS	7.422	0.191	0.0	0.05	7.0	1.0000	-
DS/P2.1.0-1	FIRST	2	PS	7.446	0.410	0.0	0.05	7.0	1.0000	-
DS/P2.1.0-1	FIRST	EQ	PS	7.478	0.707	0.0	0.05	7.0	1.0000	-
DS/P2.1.0-1	INT2	1	PS	7.478	0.707	0.0	0.05	7.0	1.0000	-
DS/P2.1.0-1	INT2	2	PS	7.478	0.707	0.0	0.05	7.0	1.0000	-
DS/P2.1.0-1	INT2	EQ	PS	7.478	0.707	0.0	0.12	16.0	1.0000	-
DS/P3.1.0-1	FIRST	1	PS	7.437	0.259	0.8	0.05	7.0	1.0000	-
DS/P3.1.0-1	FIRST	2	PS	7.475	0.546	1.7	0.05	7.0	1.0000	-
DS/P3.1.0-1	FIRST	EQ	PS	7.521	0.895	2.2	0.05	7.0	1.0000	-
DS/P3.1.0-1	INT1	1	PS	7.521	0.895	2.2	0.05	7.0	1.0000	-
DS/P3.1.0-1	INT1	2	PS	7.521	0.895	2.2	0.05	7.0	1.0000	-
DS/P3.1.0-1	INT1	EQ	PS	7.521	0.895	2.2	0.05	7.0	1.0000	-
DS/P3.1.0-1	INT2	1	PS	7.521	0.895	2.2	0.05	7.0	1.0000	-
DS/P3.1.0-1	INT2	2	PS	7.521	0.895	2.2	0.05	7.0	1.0000	-
DS/P3.1.0-1	INT2	EQ	PS	7.521	0.895	2.2	0.12	15.3	0.9894	-
DS/P3.2.0	FIRST	1	PS	7.442	0.293	0.8	0.05	7.0	1.0000	-
DS/P3.2.0	FIRST	2	PS	7.485	0.616	1.6	0.05	7.0	1.0000	-
DS/P3.2.0	FIRST	EQ	PS	7.538	1.009	2.2	0.05	7.0	1.0000	-
DS/P3.2.0	INT1	1	PS	7.538	1.009	2.2	0.05	7.0	1.0000	-
DS/P3.2.0	INT1	2	PS	7.538	1.009	2.2	0.05	7.0	1.0000	-
DS/P3.2.0	INT1	EQ	PS	7.538	1.009	2.2	0.05	7.0	1.0000	-
DS/P3.2.0	INT2	1	PS	7.538	1.009	2.2	0.05	7.0	1.0000	-
DS/P3.2.0	INT2	2	PS	7.538	1.009	2.2	0.05	7.0	1.0000	-
DS/P3.2.0	INT2	EQ	PS	7.538	1.009	2.2	0.12	15.1	0.9861	-
DS/P3.3.0	FIRST	1	PS	7.456	0.397	1.0	0.05	7.0	1.0000	-
DS/P3.3.0	FIRST	2	PS	7.513	0.824	2.1	0.05	7.0	1.0000	-
DS/P3.3.0	FIRST	EQ	PS	7.582	1.348	2.8	0.05	7.0	1.0000	-
DS/P3.3.0	INT1	1	PS	7.582	1.348	2.8	0.05	7.0	1.0000	-
DS/P3.3.0	INT1	2	PS	7.582	1.348	2.8	0.05	7.0	1.0000	-
DS/P3.3.0	INT1	EQ	PS	7.582	1.348	2.8	0.05	7.0	1.0000	-
DS/P3.3.0	INT2	1	PS	7.582	1.348	2.8	0.05	7.0	1.0000	-
DS/P3.3.0	INT2	2	PS	7.582	1.348	2.8	0.05	7.0	1.0000	-
DS/P3.3.0	INT2	EQ	PS	7.582	1.348	2.8	0.12	13.7	0.9624	-
DS/P4.1.0	FIRST	1	PS	7.447	0.232	0.0	0.05	7.0	1.0000	-
DS/P4.1.0	FIRST	2	PS	7.495	0.464	0.0	0.05	7.0	1.0000	-
DS/P4.1.0	FIRST	EQ	PS	7.543	0.702	0.4	0.12	16.0	1.0000	-
DS/P4.2.0	FIRST	1	PS	7.470	0.351	0.6	0.05	7.0	1.0000	-
DS/P4.2.0	FIRST	2	PS	7.538	0.701	1.3	0.05	7.0	1.0000	-
DS/P4.2.0	FIRST	EQ	PS	7.614	1.088	2.1	0.12	15.2	0.9879	-
DS/P4.3.0	FIRST	1	PS	7.473	0.366	0.7	0.05	7.0	1.0000	-
DS/P4.3.0	FIRST	2	PS	7.545	0.738	1.5	0.05	7.0	1.0000	-
DS/P4.3.0	FIRST	EQ	PS	7.628	1.156	2.3	0.12	15.0	0.9832	-
DS/P4.4.0	FIRST	1	PS	7.477	0.384	0.6	0.05	7.0	1.0000	-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FACSOL	CROSSTM s
DS/P4.4.0	FIRST	2	PS	7.553	0.772	1.4	0.05	7.0	1.0000	-
DS/P4.4.0	FIRST	EQ	PS	7.640	1.207	2.3	0.12	14.8	0.9813	-
DS/P5.1.0-1	FIRST	1	PS	7.497	0.339	0.0	0.05	7.0	1.0000	-
DS/P5.1.0-1	FIRST	2	PS	7.598	0.684	0.0	0.05	7.0	1.0000	-
DS/P5.1.0-1	FIRST	EQ	PS	7.712	1.053	0.0	0.12	16.0	1.0000	-
DS/P5.2.0	FIRST	1	PS	7.518	0.405	0.3	0.05	7.0	1.0000	-
DS/P5.2.0	FIRST	2	PS	7.641	0.818	0.2	0.05	7.0	1.0000	-
DS/P5.2.0	FIRST	EQ	PS	7.778	1.252	0.1	0.12	16.0	1.0000	-
DS/P5.3.0	FIRST	1	PS	7.519	0.408	0.3	0.05	7.0	1.0000	-
DS/P5.3.0	FIRST	2	PS	7.644	0.828	0.2	0.05	7.0	1.0000	-
DS/P5.3.0	FIRST	EQ	PS	7.786	1.281	0.1	0.12	16.0	1.0000	-
DS/P5.4.0	FIRST	1	PS	7.519	0.409	0.3	0.05	7.0	1.0000	-
DS/P5.4.0	FIRST	2	PS	7.645	0.831	0.3	0.05	7.0	1.0000	-
DS/P5.4.0	FIRST	EQ	PS	7.788	1.286	0.2	0.12	16.0	1.0000	-
DS/P5.5.0	FIRST	1	PS	7.522	0.417	0.3	0.05	7.0	1.0000	-
DS/P5.5.0	FIRST	2	PS	7.650	0.847	0.3	0.05	7.0	1.0000	-
DS/P5.5.0	FIRST	EQ	PS	7.796	1.310	0.2	0.12	16.0	1.0000	-
DS/P6.1.0-1	FIRST	1	PS	7.450	0.128	0.0	0.05	7.0	1.0000	-
DS/P6.1.0-1	FIRST	2	PS	7.501	0.256	0.0	0.05	7.0	1.0000	-
DS/P6.1.0-1	FIRST	EQ	PS	7.555	0.388	0.0	0.12	16.0	1.0000	-
DS/P6.2.0	FIRST	1	PS	7.565	0.533	0.4	0.05	7.0	1.0000	-
DS/P6.2.0	FIRST	2	PS	7.743	1.064	0.3	0.05	7.0	1.0000	-
DS/P6.2.0	FIRST	EQ	PS	7.951	1.635	0.2	0.12	15.5	0.9913	-
DS/P6.3.0	FIRST	1	PS	7.565	0.533	0.4	0.05	7.0	1.0000	-
DS/P6.3.0	FIRST	2	PS	7.743	1.064	0.3	0.05	7.0	1.0000	-
DS/P6.3.0	FIRST	EQ	PS	7.951	1.635	0.2	0.12	15.5	0.9913	-
DS/P6.4.0	FIRST	1	PS	7.566	0.535	0.5	0.05	7.0	1.0000	-
DS/P6.4.0	FIRST	2	PS	7.744	1.067	0.4	0.05	7.0	1.0000	-
DS/P6.4.0	FIRST	EQ	PS	7.953	1.640	0.2	0.12	15.4	0.9906	-
DS/P6.5.0	FIRST	1	PS	7.568	0.540	0.5	0.05	7.0	1.0000	-
DS/P6.5.0	FIRST	2	PS	7.747	1.077	0.4	0.05	7.0	1.0000	-
DS/P6.5.0	FIRST	EQ	PS	7.961	1.655	0.2	0.12	15.4	0.9900	-
DS/P7.1.0-1	FIRST	1	PS	7.450	0.128	0.0	0.05	7.0	1.0000	-
DS/P7.1.0-1	FIRST	2	PS	7.501	0.256	0.0	0.05	7.0	1.0000	-
DS/P7.1.0-1	FIRST	EQ	PS	7.555	0.388	0.0	0.12	16.0	1.0000	-
DS/P7.2.0-1	FIRST	1	PS	7.455	0.136	0.0	0.05	7.0	1.0000	-
DS/P7.2.0-1	FIRST	2	PS	7.513	0.276	0.0	0.05	7.0	1.0000	-
DS/P7.2.0-1	FIRST	EQ	PS	7.579	0.429	0.0	0.12	16.0	1.0000	-
DS/P7.3.0-1	FIRST	1	PS	7.455	0.136	0.0	0.05	7.0	1.0000	-
DS/P7.3.0-1	FIRST	2	PS	7.513	0.276	0.0	0.05	7.0	1.0000	-
DS/P7.3.0-1	FIRST	EQ	PS	7.579	0.429	0.0	0.12	16.0	1.0000	-
DS/P7.4.0-1	FIRST	1	PS	7.455	0.136	0.0	0.05	7.0	1.0000	-
DS/P7.4.0-1	FIRST	2	PS	7.513	0.276	0.0	0.05	7.0	1.0000	-
DS/P7.4.0-1	FIRST	EQ	PS	7.579	0.429	0.0	0.12	16.0	1.0000	-
DS/P7.5.0-1	FIRST	1	PS	7.455	0.136	0.0	0.05	7.0	1.0000	-
DS/P7.5.0-1	FIRST	2	PS	7.513	0.276	0.0	0.05	7.0	1.0000	-
DS/P7.5.0-1	FIRST	EQ	PS	7.579	0.429	0.0	0.12	16.0	1.0000	-
DS/P8.1.0-1	FIRST	1	PS	7.450	0.128	0.0	0.05	7.0	1.0000	-
DS/P8.1.0-1	FIRST	2	PS	7.501	0.256	0.0	0.05	7.0	1.0000	-
DS/P8.1.0-1	FIRST	EQ	PS	7.555	0.388	0.0	0.12	16.0	1.0000	-
DS/P8.2.0	FIRST	1	PS	7.592	0.353	0.5	0.05	7.0	1.0000	-
DS/P8.2.0	FIRST	2	PS	7.795	0.713	0.4	0.05	7.0	1.0000	-
DS/P8.2.0	FIRST	EQ	PS	8.028	1.110	0.2	0.12	16.0	1.0000	-
DS/P8.3.0	FIRST	1	PS	7.592	0.353	0.5	0.05	7.0	1.0000	-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DS/P8.3.0	FIRST	2	PS	7.795	0.713	0.4	0.05	7.0	1.0000		-
DS/P8.3.0	FIRST	EQ	PS	8.028	1.110	0.2	0.12	16.0	1.0000		-
DS/P8.4.0	FIRST	1	PS	7.592	0.354	0.6	0.05	7.0	1.0000		-
DS/P8.4.0	FIRST	2	PS	7.796	0.715	0.4	0.05	7.0	1.0000		-
DS/P8.4.0	FIRST	EQ	PS	8.030	1.113	0.2	0.12	16.0	1.0000		-
DS/P8.5.0	FIRST	1	PS	7.592	0.354	0.6	0.05	7.0	1.0000		-
DS/P8.5.0	FIRST	2	PS	7.796	0.715	0.4	0.05	7.0	1.0000		-
DS/P8.5.0	FIRST	EQ	PS	8.030	1.113	0.2	0.12	16.0	1.0000		-
DS/P8.6.0	FIRST	1	PS	7.597	0.361	0.5	0.05	7.0	1.0000		-
DS/P8.6.0	FIRST	2	PS	7.805	0.729	0.4	0.05	7.0	1.0000		-
DS/P8.6.0	FIRST	EQ	PS	8.044	1.134	0.2	0.12	16.0	1.0000		-
DS/P9.1.0-1	FIRST	1	PS	7.511	0.185	0.0	0.05	7.0	1.0000		-
DS/P9.1.0-1	FIRST	2	PS	7.626	0.370	0.0	0.05	7.0	1.0000		-
DS/P9.1.0-1	FIRST	EQ	PS	7.753	0.568	0.0	0.12	16.0	1.0000		-
DS/P9.2.0	FIRST	1	PS	7.542	0.249	0.3	0.05	7.0	1.0000		-
DS/P9.2.0	FIRST	2	PS	7.690	0.482	0.3	0.05	7.0	1.0000		-
DS/P9.2.0	FIRST	EQ	PS	7.853	0.729	0.2	0.12	16.0	1.0000		-
DS/P9.3.0	FIRST	1	PS	7.543	0.250	0.3	0.05	7.0	1.0000		-
DS/P9.3.0	FIRST	2	PS	7.692	0.486	0.3	0.05	7.0	1.0000		-
DS/P9.3.0	FIRST	EQ	PS	7.860	0.736	0.2	0.12	16.0	1.0000		-
DS/P9.4.0	FIRST	1	PS	7.543	0.251	0.4	0.05	7.0	1.0000		-
DS/P9.4.0	FIRST	2	PS	7.693	0.488	0.3	0.05	7.0	1.0000		-
DS/P9.4.0	FIRST	EQ	PS	7.861	0.739	0.2	0.12	16.0	1.0000		-
DS/P9.5.0	FIRST	1	PS	7.543	0.251	0.4	0.05	7.0	1.0000		-
DS/P9.5.0	FIRST	2	PS	7.693	0.488	0.3	0.05	7.0	1.0000		-
DS/P9.5.0	FIRST	EQ	PS	7.861	0.739	0.2	0.12	16.0	1.0000		-
DS/P9.6.0	FIRST	1	PS	7.547	0.259	0.3	0.05	7.0	1.0000		-
DS/P9.6.0	FIRST	2	PS	7.702	0.501	0.3	0.05	7.0	1.0000		-
DS/P9.6.0	FIRST	EQ	PS	7.874	0.758	0.2	0.12	16.0	1.0000		-
DS/P10.1.0-1	FIRST	1	PS	7.482	0.053	0.0	0.05	7.0	1.0000		-
DS/P10.1.0-1	FIRST	2	PS	7.567	0.106	0.0	0.05	7.0	1.0000		-
DS/P10.1.0-1	FIRST	EQ	PS	7.662	0.162	0.0	0.12	16.0	1.0000		-
DS/P10.2.0	FIRST	1	PS	7.511	0.067	1.1	0.05	7.0	1.0000		-
DS/P10.2.0	FIRST	2	PS	7.624	0.133	1.8	0.05	7.0	1.0000		-
DS/P10.2.0	FIRST	EQ	PS	7.756	0.205	1.5	0.12	16.0	1.0000		-
DS/P10.3.0	FIRST	1	PS	7.518	0.071	1.2	0.05	7.0	1.0000		-
DS/P10.3.0	FIRST	2	PS	7.639	0.138	2.0	0.05	7.0	1.0000		-
DS/P10.3.0	FIRST	EQ	PS	7.780	0.212	1.8	0.12	16.0	1.0000		-
DS/P10.4.0	FIRST	1	PS	7.524	0.071	1.1	0.05	7.0	1.0000		-
DS/P10.4.0	FIRST	2	PS	7.651	0.142	2.0	0.05	7.0	1.0000		-
DS/P10.4.0	FIRST	EQ	PS	7.798	0.219	1.8	0.12	16.0	1.0000		-
DS/P11.1.0-1	FIRST	1	PS	7.552	-0.077	0.0	0.05	7.0	1.0000		-
DS/P11.1.0-1	FIRST	2	PS	7.711	-0.158	0.0	0.05	7.0	1.0000		-
DS/P11.1.0-1	FIRST	EQ	PS	7.895	-0.250	0.0	0.12	16.0	1.0000		-
DS/P11.2.0	FIRST	1	PS	7.555	-0.088	2.7	0.05	7.0	1.0000		-
DS/P11.2.0	FIRST	2	PS	7.727	-0.179	3.2	0.05	7.0	1.0000		-
DS/P11.2.0	FIRST	EQ	PS	7.944	-0.278	1.8	0.05	7.0	1.0000		-
DS/P11.2.0	CROSS	1	PS	7.970	-0.285	0.7	0.05	7.0	1.0000		396
DS/P11.2.0	CROSS	2	PS	7.970	-0.285	0.7	0.05	7.0	1.0000		396
DS/P11.2.0	CROSS	EQ	PS	7.970	-0.285	0.7	0.12	16.0	1.0000		396
DS/P11.3.0	FIRST	1	PS	7.564	-0.093	2.7	0.05	7.0	1.0000		-
DS/P11.3.0	FIRST	2	PS	7.744	-0.188	3.2	0.05	7.0	1.0000		-
DS/P11.3.0	FIRST	EQ	PS	7.970	-0.292	1.7	0.05	7.0	1.0000		-
DS/P11.3.0	CROSS	1	PS	7.996	-0.299	0.7	0.05	7.0	1.0000		395

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FACSOL	CROSSTM s
DS/P11.3.0	CROSS	2	PS	7.996	-0.299	0.7	0.05	7.0	1.0000	395
DS/P11.3.0	CROSS	EQ	PS	7.996	-0.299	0.7	0.12	16.0	1.0000	395
DS/P12.1.0-1	FIRST	1	PS	7.501	-0.164	0.0	0.05	7.0	1.0000	-
DS/P12.1.0-1	FIRST	2	PS	7.608	-0.336	0.0	0.05	7.0	1.0000	-
DS/P12.1.0-1	FIRST	EQ	PS	7.735	-0.536	0.0	0.12	16.0	1.0000	-
DS/P12.2.0	FIRST	1	PS	7.549	-0.251	2.0	0.05	7.0	1.0000	-
DS/P12.2.0	FIRST	2	PS	7.692	-0.514	3.9	0.05	7.0	1.0000	-
DS/P12.2.0	FIRST	EQ	PS	7.895	-0.808	3.3	0.12	14.0	0.9664	-
DS/P12.3.0	FIRST	1	PS	7.558	-0.260	1.8	0.05	7.0	1.0000	-
DS/P12.3.0	FIRST	2	PS	7.710	-0.535	3.8	0.05	7.0	1.0000	-
DS/P12.3.0	FIRST	EQ	PS	7.920	-0.843	3.2	0.12	13.9	0.9659	-
DS/P13.1.0-1	FIRST	1	PS	7.419	-0.049	0.6	0.05	7.0	1.0000	-
DS/P13.1.0-1	FIRST	2	PS	7.438	-0.101	1.2	0.05	7.0	1.0000	-
DS/P13.1.0-1	FIRST	EQ	PS	7.461	-0.167	1.9	0.12	16.0	1.0000	-
DS/P13.2.0-1	FIRST	1	PS	7.476	-0.193	0.7	0.05	7.0	1.0000	-
DS/P13.2.0-1	FIRST	2	PS	7.554	-0.396	1.4	0.05	7.0	1.0000	-
DS/P13.2.0-1	FIRST	EQ	PS	7.650	-0.638	1.7	0.12	16.0	1.0000	-
DS/P13.3.0	FIRST	1	PS	7.527	-0.315	1.0	0.05	7.0	1.0000	-
DS/P13.3.0	FIRST	2	PS	7.654	-0.651	2.5	0.05	7.0	1.0000	-
DS/P13.3.0	FIRST	EQ	PS	7.806	-1.047	3.4	0.12	14.0	0.9664	-
DS/P14.1.0	FIRST	1	PS	7.508	-0.343	0.5	0.05	7.0	1.0000	-
DS/P14.1.0	FIRST	2	PS	7.621	-0.709	1.2	0.05	7.0	1.0000	-
DS/P14.1.0	FIRST	EQ	PS	7.763	-1.170	2.0	0.05	7.0	1.0000	-
DS/P14.1.0	CROSS	1	PS	7.807	-1.287	1.1	0.05	7.0	1.0000	1314
DS/P14.1.0	CROSS	2	PS	7.848	-1.406	0.0	0.05	7.0	1.0000	1314
DS/P14.1.0	CROSS	EQ	PS	7.848	-1.406	0.0	0.12	16.0	1.0000	1314
DS/P14.2.0	FIRST	1	PS	7.530	-0.412	0.4	0.05	7.0	1.0000	-
DS/P14.2.0	FIRST	2	PS	7.667	-0.849	1.1	0.05	7.0	1.0000	-
DS/P14.2.0	FIRST	EQ	PS	7.836	-1.397	1.9	0.05	7.0	1.0000	-
DS/P14.2.0	CROSS	1	PS	7.880	-1.515	1.0	0.05	7.0	1.0000	1301
DS/P14.2.0	CROSS	2	PS	7.919	-1.630	0.0	0.05	7.0	1.0000	1301
DS/P14.2.0	CROSS	EQ	PS	7.919	-1.630	0.0	0.12	16.0	1.0000	1301
DS/P15.1.0	FIRST	1	PS	7.532	-0.517	0.0	0.05	7.0	1.0000	-
DS/P15.1.0	FIRST	2	PS	7.677	-1.083	0.0	0.05	7.0	1.0000	-
DS/P15.1.0	FIRST	EQ	PS	7.881	-1.884	0.0	0.12	15.9	0.9987	-
DS/P15.2.0	FIRST	1	PS	7.555	-0.606	0.0	0.05	7.0	1.0000	-
DS/P15.2.0	FIRST	2	PS	7.725	-1.268	0.0	0.05	7.0	1.0000	-
DS/P15.2.0	FIRST	EQ	PS	7.962	-2.201	0.0	0.12	15.4	0.9903	-
DS/P16.1.0-1	FIRST	1	PS	7.491	-0.419	0.0	0.05	7.0	1.0000	-
DS/P16.1.0-1	FIRST	2	PS	7.590	-0.881	0.0	0.05	7.0	1.0000	-
DS/P16.1.0-1	FIRST	EQ	PS	7.727	-1.528	0.0	0.12	16.0	1.0000	-
DS/P16.2.0-1	FIRST	1	PS	7.491	-0.419	0.0	0.05	7.0	1.0000	-
DS/P16.2.0-1	FIRST	2	PS	7.590	-0.881	0.0	0.05	7.0	1.0000	-
DS/P16.2.0-1	FIRST	EQ	PS	7.727	-1.528	0.0	0.12	16.0	1.0000	-
DS/P17.1.0-1	FIRST	1	PS	7.437	-0.194	0.0	0.05	7.0	1.0000	-
DS/P17.1.0-1	FIRST	2	PS	7.477	-0.402	0.0	0.05	7.0	1.0000	-
DS/P17.1.0-1	FIRST	EQ	PS	7.526	-0.662	0.0	0.12	16.0	1.0000	-
DS/P18.1.0-1	FIRST	1	PS	7.423	-0.131	0.0	0.05	7.0	1.0000	-
DS/P18.1.0-1	FIRST	2	PS	7.445	-0.265	0.0	0.05	7.0	1.0000	-
DS/P18.1.0-1	FIRST	EQ	PS	7.469	-0.403	0.0	0.12	16.0	1.0000	-
DS/P1-2.1.0-1	FIRST	1	PS	7.427	0.244	0.0	0.05	7.0	1.0000	-
DS/P1-2.1.0-1	FIRST	2	PS	7.459	0.534	0.0	0.05	7.0	1.0000	-
DS/P1-2.1.0-1	FIRST	EQ	PS	7.507	0.999	0.0	0.05	7.0	1.0000	-
DS/P1-2.1.0-1	INT2	1	PS	7.507	0.999	0.0	0.05	7.0	1.0000	-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FACSOL	CROSSTM s
DS/P1-2.1.0-1	INT2	2	PS	7.507	0.999	0.0	0.05	7.0	1.0000	-
DS/P1-2.1.0-1	INT2	EQ	PS	7.507	0.999	0.0	0.12	16.0	1.0000	-
DS/P1-2.2.0-1	FIRST	1	PS	7.427	0.244	0.0	0.05	7.0	1.0000	-
DS/P1-2.2.0-1	FIRST	2	PS	7.459	0.534	0.0	0.05	7.0	1.0000	-
DS/P1-2.2.0-1	FIRST	EQ	PS	7.507	0.999	0.0	0.05	7.0	1.0000	-
DS/P1-2.2.0-1	INT2	1	PS	7.507	0.999	0.0	0.05	7.0	1.0000	-
DS/P1-2.2.0-1	INT2	2	PS	7.507	0.999	0.0	0.05	7.0	1.0000	-
DS/P1-2.2.0-1	INT2	EQ	PS	7.507	0.999	0.0	0.12	16.0	1.0000	-
DS/P2-3.1.0-1	FIRST	1	PS	7.462	0.505	0.6	0.05	7.0	1.0000	-
DS/P2-3.1.0-1	FIRST	2	PS	7.532	1.107	2.0	0.05	7.0	1.0000	-
DS/P2-3.1.0-1	FIRST	EQ	PS	7.650	2.109	3.1	0.05	7.0	1.0000	-
DS/P2-3.1.0-1	INT1	1	PS	7.650	2.109	3.1	0.05	7.0	1.0000	-
DS/P2-3.1.0-1	INT1	2	PS	7.650	2.109	3.1	0.05	7.0	1.0000	-
DS/P2-3.1.0-1	INT1	EQ	PS	7.650	2.109	3.1	0.05	7.0	1.0000	-
DS/P2-3.1.0-1	INT2	1	PS	7.650	2.109	3.1	0.05	7.0	1.0000	-
DS/P2-3.1.0-1	INT2	2	PS	7.650	2.109	3.1	0.05	7.0	1.0000	-
DS/P2-3.1.0-1	INT2	EQ	PS	7.650	2.109	3.1	0.12	12.4	0.9385	-
DS/P2-3.2.0	FIRST	1	PS	7.467	0.537	0.6	0.05	7.0	1.0000	-
DS/P2-3.2.0	FIRST	2	PS	7.543	1.178	2.0	0.05	7.0	1.0000	-
DS/P2-3.2.0	FIRST	EQ	PS	7.670	2.243	3.1	0.05	7.0	1.0000	-
DS/P2-3.2.0	INT1	1	PS	7.670	2.243	3.1	0.05	7.0	1.0000	-
DS/P2-3.2.0	INT1	2	PS	7.670	2.243	3.1	0.05	7.0	1.0000	-
DS/P2-3.2.0	INT1	EQ	PS	7.670	2.243	3.1	0.05	7.0	1.0000	-
DS/P2-3.2.0	INT2	1	PS	7.670	2.243	3.1	0.05	7.0	1.0000	-
DS/P2-3.2.0	INT2	2	PS	7.670	2.243	3.1	0.05	7.0	1.0000	-
DS/P2-3.2.0	INT2	EQ	PS	7.670	2.243	3.1	0.12	12.2	0.9353	-
DS/P2-3.3.0	FIRST	1	PS	7.482	0.635	0.8	0.05	7.0	1.0000	-
DS/P2-3.3.0	FIRST	2	PS	7.570	1.395	2.6	0.05	7.0	1.0000	-
DS/P2-3.3.0	FIRST	EQ	PS	7.717	2.655	3.9	0.05	7.0	1.0000	-
DS/P2-3.3.0	INT1	1	PS	7.717	2.649	3.9	0.05	7.0	1.0000	-
DS/P2-3.3.0	INT1	2	PS	7.717	2.649	3.9	0.05	7.0	1.0000	-
DS/P2-3.3.0	INT1	EQ	PS	7.717	2.655	3.9	0.05	7.0	1.0000	-
DS/P2-3.3.0	INT2	1	PS	7.717	2.650	3.9	0.05	7.0	1.0000	-
DS/P2-3.3.0	INT2	2	PS	7.717	2.650	3.9	0.05	7.0	1.0000	-
DS/P2-3.3.0	INT2	EQ	PS	7.717	2.655	3.9	0.12	10.7	0.9035	-
DS/P3-4.1.0	FIRST	1	PS	7.484	0.472	1.1	0.05	7.0	1.0000	-
DS/P3-4.1.0	FIRST	2	PS	7.566	1.006	2.4	0.05	7.0	1.0000	-
DS/P3-4.1.0	FIRST	EQ	PS	7.679	1.701	3.0	0.05	7.0	1.0000	-
DS/P3-4.1.0	INT1	1	PS	7.679	1.701	3.0	0.05	7.0	1.0000	-
DS/P3-4.1.0	INT1	2	PS	7.679	1.701	3.0	0.05	7.0	1.0000	-
DS/P3-4.1.0	INT1	EQ	PS	7.679	1.701	3.0	0.05	7.0	1.0000	-
DS/P3-4.1.0	INT2	1	PS	7.679	1.701	3.0	0.05	7.0	1.0000	-
DS/P3-4.1.0	INT2	2	PS	7.679	1.701	3.0	0.05	7.0	1.0000	-
DS/P3-4.1.0	INT2	EQ	PS	7.679	1.701	3.0	0.12	12.7	0.9431	-
DS/P3-4.2.0	FIRST	1	PS	7.488	0.515	1.0	0.05	7.0	1.0000	-
DS/P3-4.2.0	FIRST	2	PS	7.576	1.079	2.4	0.05	7.0	1.0000	-
DS/P3-4.2.0	FIRST	EQ	PS	7.695	1.808	3.0	0.05	7.0	1.0000	-
DS/P3-4.2.0	INT1	1	PS	7.695	1.808	3.0	0.05	7.0	1.0000	-
DS/P3-4.2.0	INT1	2	PS	7.695	1.808	3.0	0.05	7.0	1.0000	-
DS/P3-4.2.0	INT1	EQ	PS	7.695	1.808	3.0	0.05	7.0	1.0000	-
DS/P3-4.2.0	INT2	1	PS	7.695	1.808	3.0	0.05	7.0	1.0000	-
DS/P3-4.2.0	INT2	2	PS	7.695	1.808	3.0	0.05	7.0	1.0000	-
DS/P3-4.2.0	INT2	EQ	PS	7.695	1.808	3.0	0.12	12.4	0.9389	-
DS/P3-4.3.0	FIRST	1	PS	7.507	0.630	1.7	0.05	7.0	1.0000	-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DS/P3-4.3.0	FIRST	2	PS	7.605	1.317	4.1	0.05	7.0	1.0000		-
DS/P3-4.3.0	FIRST	EQ	PS	7.758	2.281	5.2	0.05	7.0	1.0000		-
DS/P3-4.3.0	INT1	1	PS	7.758	2.277	5.1	0.05	7.0	1.0000		-
DS/P3-4.3.0	INT1	2	PS	7.758	2.277	5.1	0.05	7.0	1.0000		-
DS/P3-4.3.0	INT1	EQ	PS	7.758	2.281	5.2	0.05	7.0	1.0000		-
DS/P3-4.3.0	INT2	1	PS	7.757	2.279	5.1	0.05	7.0	1.0000		-
DS/P3-4.3.0	INT2	2	PS	7.757	2.279	5.1	0.05	7.0	1.0000		-
DS/P3-4.3.0	INT2	EQ	PS	7.758	2.281	5.2	0.12	9.1	0.8673		-
DS/P3-4.4.0	FIRST	1	PS	7.521	0.725	2.0	0.05	7.0	1.0000		-
DS/P3-4.4.0	FIRST	2	PS	7.627	1.523	4.6	0.05	7.0	1.0000		-
DS/P3-4.4.0	FIRST	EQ	PS	7.797	2.627	5.8	0.05	7.0	1.0000		-
DS/P3-4.4.0	INT1	1	PS	7.796	2.612	5.7	0.05	7.0	1.0000		-
DS/P3-4.4.0	INT1	2	PS	7.796	2.612	5.7	0.05	7.0	1.0000		-
DS/P3-4.4.0	INT1	EQ	PS	7.797	2.627	5.8	0.05	7.0	1.0000		-
DS/P3-4.4.0	INT2	1	PS	7.796	2.618	5.8	0.05	7.0	1.0000		-
DS/P3-4.4.0	INT2	2	PS	7.796	2.618	5.8	0.05	7.0	1.0000		-
DS/P3-4.4.0	INT2	EQ	PS	7.797	2.627	5.8	0.12	7.6	0.8315		-
DS/P3-4.5.0	FIRST	1	PS	7.524	0.738	2.1	0.05	7.0	1.0000		-
DS/P3-4.5.0	FIRST	2	PS	7.633	1.565	4.8	0.05	7.0	1.0000		-
DS/P3-4.5.0	FIRST	EQ	PS	7.816	2.730	6.0	0.05	7.0	1.0000		-
DS/P3-4.5.0	INT1	1	PS	7.816	2.711	5.8	0.05	7.0	1.0000		-
DS/P3-4.5.0	INT1	2	PS	7.816	2.711	5.8	0.05	7.0	1.0000		-
DS/P3-4.5.0	INT1	EQ	PS	7.816	2.730	6.0	0.05	7.0	1.0000		-
DS/P3-4.5.0	INT2	1	PS	7.816	2.718	5.9	0.05	7.0	1.0000		-
DS/P3-4.5.0	INT2	2	PS	7.816	2.718	5.9	0.05	7.0	1.0000		-
DS/P3-4.5.0	INT2	EQ	PS	7.816	2.730	6.0	0.12	7.3	0.8208		-
DS/P3-4.6.0	FIRST	1	PS	7.529	0.751	2.0	0.05	7.0	1.0000		-
DS/P3-4.6.0	FIRST	2	PS	7.642	1.597	4.7	0.05	7.0	1.0000		-
DS/P3-4.6.0	FIRST	EQ	PS	7.829	2.787	5.9	0.05	7.0	1.0000		-
DS/P3-4.6.0	INT1	1	PS	7.829	2.767	5.8	0.05	7.0	1.0000		-
DS/P3-4.6.0	INT1	2	PS	7.829	2.767	5.8	0.05	7.0	1.0000		-
DS/P3-4.6.0	INT1	EQ	PS	7.829	2.787	5.9	0.05	7.0	1.0000		-
DS/P3-4.6.0	INT2	1	PS	7.829	2.775	5.8	0.05	7.0	1.0000		-
DS/P3-4.6.0	INT2	2	PS	7.829	2.775	5.8	0.05	7.0	1.0000		-
DS/P3-4.6.0	INT2	EQ	PS	7.829	2.787	5.9	0.12	7.2	0.8181		-
DS/P4-5.1.0	FIRST	1	PS	7.563	0.609	0.0	0.05	7.0	1.0000		-
DS/P4-5.1.0	FIRST	2	PS	7.733	1.233	0.0	0.05	7.0	1.0000		-
DS/P4-5.1.0	FIRST	EQ	PS	7.928	1.923	0.8	0.12	14.2	0.9701		-
DS/P4-5.2.0	FIRST	1	PS	7.586	0.720	1.0	0.05	7.0	1.0000		-
DS/P4-5.2.0	FIRST	2	PS	7.773	1.473	2.7	0.05	7.0	1.0000		-
DS/P4-5.2.0	FIRST	EQ	PS	8.013	2.372	2.9	0.12	11.0	0.9098		-
DS/P4-5.3.0	FIRST	1	PS	7.587	0.724	1.0	0.05	7.0	1.0000		-
DS/P4-5.3.0	FIRST	2	PS	7.776	1.487	2.8	0.05	7.0	1.0000		-
DS/P4-5.3.0	FIRST	EQ	PS	8.025	2.416	3.0	0.12	10.8	0.9072		-
DS/P4-5.4.0	FIRST	1	PS	7.590	0.742	1.2	0.05	7.0	1.0000		-
DS/P4-5.4.0	FIRST	2	PS	7.783	1.526	3.0	0.05	7.0	1.0000		-
DS/P4-5.4.0	FIRST	EQ	PS	8.046	2.513	3.1	0.12	10.5	0.8993		-
DS/P4-5.5.0	FIRST	1	PS	7.590	0.743	1.2	0.05	7.0	1.0000		-
DS/P4-5.5.0	FIRST	2	PS	7.784	1.529	3.0	0.05	7.0	1.0000		-
DS/P4-5.5.0	FIRST	EQ	PS	8.048	2.519	3.1	0.12	10.4	0.8984		-
DS/P4-5.6.0	FIRST	1	PS	7.593	0.748	1.2	0.05	7.0	1.0000		-
DS/P4-5.6.0	FIRST	2	PS	7.789	1.543	3.0	0.05	7.0	1.0000		-
DS/P4-5.6.0	FIRST	EQ	PS	8.056	2.544	3.1	0.12	10.4	0.8972		-
DS/P4-5.7.0	FIRST	1	PS	7.597	0.769	1.1	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DS/P4-5.7.0	FIRST	2	PS	7.797	1.578	2.9	0.05	7.0	1.0000		-
DS/P4-5.7.0	FIRST	EQ	PS	8.068	2.596	3.1	0.12	10.3	0.8948		-
DS/P5-6.1.0	FIRST	1	PS	7.565	0.529	0.0	0.05	7.0	1.0000		-
DS/P5-6.1.0	FIRST	2	PS	7.740	1.055	0.0	0.05	7.0	1.0000		-
DS/P5-6.1.0	FIRST	EQ	SB	7.947	1.622	-0.0	0.12	14.8	0.9800		-
DS/P5-6.2.0	FIRST	1	PS	7.566	0.538	0.4	0.05	7.0	1.0000		-
DS/P5-6.2.0	FIRST	2	PS	7.744	1.070	0.3	0.05	7.0	1.0000		-
DS/P5-6.2.0	FIRST	EQ	PS	7.954	1.644	0.2	0.12	15.4	0.9910		-
DS/P5-6.3.0	FIRST	1	PS	7.567	0.541	0.4	0.05	7.0	1.0000		-
DS/P5-6.3.0	FIRST	2	PS	7.748	1.080	0.3	0.05	7.0	1.0000		-
DS/P5-6.3.0	FIRST	EQ	PS	7.967	1.679	0.2	0.12	15.4	0.9898		-
DS/P5-6.4.0	FIRST	1	PS	7.567	0.542	0.5	0.05	7.0	1.0000		-
DS/P5-6.4.0	FIRST	2	PS	7.749	1.083	0.4	0.05	7.0	1.0000		-
DS/P5-6.4.0	FIRST	EQ	PS	7.966	1.685	0.2	0.12	15.3	0.9891		-
DS/P5-6.5.0	FIRST	1	PS	7.571	0.553	0.5	0.05	7.0	1.0000		-
DS/P5-6.5.0	FIRST	2	PS	7.755	1.103	0.4	0.05	7.0	1.0000		-
DS/P5-6.5.0	FIRST	EQ	PS	7.976	1.715	0.2	0.12	15.2	0.9879		-
DS/P6-7.1.0-1	FIRST	1	PS	7.450	0.128	0.0	0.05	7.0	1.0000		-
DS/P6-7.1.0-1	FIRST	2	PS	7.501	0.256	0.0	0.05	7.0	1.0000		-
DS/P6-7.1.0-1	FIRST	EQ	PS	7.555	0.388	0.0	0.12	16.0	1.0000		-
DS/P6-7.2.0	FIRST	1	PS	7.604	0.524	0.7	0.05	7.0	1.0000		-
DS/P6-7.2.0	FIRST	2	PS	7.821	1.152	0.7	0.05	7.0	1.0000		-
DS/P6-7.2.0	FIRST	EQ	PS	8.102	1.865	0.2	0.12	14.6	0.9766		-
DS/P6-7.3.0	FIRST	1	PS	7.604	0.524	0.7	0.05	7.0	1.0000		-
DS/P6-7.3.0	FIRST	2	PS	7.821	1.152	0.7	0.05	7.0	1.0000		-
DS/P6-7.3.0	FIRST	EQ	PS	8.102	1.865	0.2	0.12	14.6	0.9766		-
DS/P6-7.4.0	FIRST	1	PS	7.604	0.526	0.8	0.05	7.0	1.0000		-
DS/P6-7.4.0	FIRST	2	PS	7.822	1.155	0.8	0.05	7.0	1.0000		-
DS/P6-7.4.0	FIRST	EQ	PS	8.104	1.870	0.3	0.12	14.5	0.9757		-
DS/P6-7.5.0	FIRST	1	PS	7.606	0.530	0.8	0.05	7.0	1.0000		-
DS/P6-7.5.0	FIRST	2	PS	7.826	1.165	0.8	0.05	7.0	1.0000		-
DS/P6-7.5.0	FIRST	EQ	PS	8.110	1.885	0.3	0.12	14.5	0.9750		-
DS/P7-8.1.0-1	FIRST	1	PS	7.450	0.128	0.0	0.05	7.0	1.0000		-
DS/P7-8.1.0-1	FIRST	2	PS	7.501	0.256	0.0	0.05	7.0	1.0000		-
DS/P7-8.1.0-1	FIRST	EQ	PS	7.555	0.388	0.0	0.12	16.0	1.0000		-
DS/P7-8.2.0	FIRST	1	PS	7.592	0.353	0.5	0.05	7.0	1.0000		-
DS/P7-8.2.0	FIRST	2	PS	7.795	0.713	0.4	0.05	7.0	1.0000		-
DS/P7-8.2.0	FIRST	EQ	PS	8.028	1.110	0.2	0.12	16.0	1.0000		-
DS/P7-8.3.0	FIRST	1	PS	7.592	0.353	0.5	0.05	7.0	1.0000		-
DS/P7-8.3.0	FIRST	2	PS	7.795	0.713	0.4	0.05	7.0	1.0000		-
DS/P7-8.3.0	FIRST	EQ	PS	8.028	1.110	0.2	0.12	16.0	1.0000		-
DS/P7-8.4.0	FIRST	1	PS	7.592	0.354	0.6	0.05	7.0	1.0000		-
DS/P7-8.4.0	FIRST	2	PS	7.796	0.715	0.4	0.05	7.0	1.0000		-
DS/P7-8.4.0	FIRST	EQ	PS	8.030	1.113	0.2	0.12	16.0	1.0000		-
DS/P7-8.5.0	FIRST	1	PS	7.592	0.354	0.6	0.05	7.0	1.0000		-
DS/P7-8.5.0	FIRST	2	PS	7.796	0.715	0.4	0.05	7.0	1.0000		-
DS/P7-8.5.0	FIRST	EQ	PS	8.030	1.113	0.2	0.12	16.0	1.0000		-
DS/P7-8.6.0	FIRST	1	PS	7.597	0.361	0.5	0.05	7.0	1.0000		-
DS/P7-8.6.0	FIRST	2	PS	7.805	0.729	0.4	0.05	7.0	1.0000		-
DS/P7-8.6.0	FIRST	EQ	PS	8.044	1.134	0.2	0.12	16.0	1.0000		-
DS/P8-9.1.0-1	FIRST	1	PS	7.560	0.306	0.0	0.05	7.0	1.0000		-
DS/P8-9.1.0-1	FIRST	2	PS	7.731	0.612	0.0	0.05	7.0	1.0000		-
DS/P8-9.1.0-1	FIRST	EQ	PS	7.927	0.956	0.0	0.12	16.0	1.0000		-
DS/P8-9.2.0	FIRST	1	PS	7.592	0.353	0.5	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FACSOL	CROSSTM s
DS/P8-9.2.0	FIRST	2	PS	7.795	0.713	0.4	0.05	7.0	1.0000	-
DS/P8-9.2.0	FIRST	EQ	PS	8.028	1.110	0.2	0.12	16.0	1.0000	-
DS/P8-9.3.0	FIRST	1	PS	7.593	0.355	0.5	0.05	7.0	1.0000	-
DS/P8-9.3.0	FIRST	2	PS	7.798	0.718	0.4	0.05	7.0	1.0000	-
DS/P8-9.3.0	FIRST	EQ	PS	8.037	1.119	0.2	0.12	16.0	1.0000	-
DS/P8-9.4.0	FIRST	1	PS	7.593	0.356	0.6	0.05	7.0	1.0000	-
DS/P8-9.4.0	FIRST	2	PS	7.799	0.720	0.4	0.05	7.0	1.0000	-
DS/P8-9.4.0	FIRST	EQ	PS	8.039	1.122	0.2	0.12	16.0	1.0000	-
DS/P8-9.5.0	FIRST	1	PS	7.593	0.356	0.6	0.05	7.0	1.0000	-
DS/P8-9.5.0	FIRST	2	PS	7.799	0.720	0.4	0.05	7.0	1.0000	-
DS/P8-9.5.0	FIRST	EQ	PS	8.039	1.122	0.2	0.12	16.0	1.0000	-
DS/P8-9.6.0	FIRST	1	PS	7.597	0.362	0.5	0.05	7.0	1.0000	-
DS/P8-9.6.0	FIRST	2	PS	7.808	0.734	0.4	0.05	7.0	1.0000	-
DS/P8-9.6.0	FIRST	EQ	PS	8.053	1.144	0.2	0.12	16.0	1.0000	-
DS/P9-10.1.0	FIRST	1	PS	7.635	0.308	0.7	0.05	7.0	1.0000	-
DS/P9-10.1.0	FIRST	2	PS	7.893	0.587	0.0	0.05	7.0	1.0000	-
DS/P9-10.1.0	FIRST	EQ	PS	8.212	0.894	0.0	0.12	15.8	0.9971	-
DS/P9-10.2.0	FIRST	1	PS	7.645	0.309	2.1	0.05	7.0	1.0000	-
DS/P9-10.2.0	FIRST	2	PS	7.901	0.590	3.9	0.05	7.0	1.0000	-
DS/P9-10.2.0	FIRST	EQ	PS	8.259	0.917	1.7	0.12	13.9	0.9656	-
DS/P9-10.3.0	FIRST	1	PS	7.646	0.310	2.1	0.05	7.0	1.0000	-
DS/P9-10.3.0	FIRST	2	PS	7.904	0.593	3.9	0.05	7.0	1.0000	-
DS/P9-10.3.0	FIRST	EQ	PS	8.269	0.928	1.7	0.12	13.9	0.9648	-
DS/P9-10.4.0	FIRST	1	PS	7.653	0.316	2.2	0.05	7.0	1.0000	-
DS/P9-10.4.0	FIRST	2	PS	7.917	0.597	4.1	0.05	7.0	1.0000	-
DS/P9-10.4.0	FIRST	EQ	PS	8.294	0.934	2.0	0.12	13.4	0.9573	-
DS/P9-10.5.0	FIRST	1	PS	7.654	0.317	2.2	0.05	7.0	1.0000	-
DS/P9-10.5.0	FIRST	2	PS	7.918	0.599	4.2	0.05	7.0	1.0000	-
DS/P9-10.5.0	FIRST	EQ	PS	8.296	0.937	2.0	0.12	13.4	0.9567	-
DS/P9-10.6.0	FIRST	1	PS	7.659	0.312	2.2	0.05	7.0	1.0000	-
DS/P9-10.6.0	FIRST	2	PS	7.930	0.600	4.1	0.05	7.0	1.0000	-
DS/P9-10.6.0	FIRST	EQ	PS	8.314	0.943	2.0	0.12	13.4	0.9559	-
DS/P9-10.7.0	FIRST	1	PS	7.664	0.323	2.1	0.05	7.0	1.0000	-
DS/P9-10.7.0	FIRST	2	PS	7.939	0.614	4.0	0.05	7.0	1.0000	-
DS/P9-10.7.0	FIRST	EQ	PS	8.328	0.961	2.0	0.12	13.3	0.9552	-
DS/P10-11.1..	FIRST	1	PS	7.626	-0.028	1.9	0.05	7.0	1.0000	-
DS/P10-11.1..	FIRST	2	PS	7.853	-0.068	4.2	0.05	7.0	1.0000	-
DS/P10-11.1..	FIRST	EQ	PS	8.213	-0.100	0.0	0.12	16.0	1.0000	-
DS/P10-11.2.0	FIRST	1	PS	7.616	-0.023	5.9	0.05	7.0	1.0000	-
DS/P10-11.2.0	FIRST	2	PS	7.855	-0.068	8.4	0.05	7.0	1.0000	-
DS/P10-11.2.0	FIRST	EQ	PS	8.345	-0.094	4.0	0.05	7.0	1.0000	-
DS/P10-11.2.0	CROSS	1	PS	8.384	-0.101	2.7	0.05	7.0	1.0000	398
DS/P10-11.2.0	CROSS	2	PS	8.384	-0.101	2.7	0.05	7.0	1.0000	398
DS/P10-11.2.0	CROSS	EQ	PS	8.384	-0.101	2.7	0.12	13.1	0.9515	398
DS/P10-11.3.0	FIRST	1	PS	7.622	-0.022	6.0	0.05	7.0	1.0000	-
DS/P10-11.3.0	FIRST	2	PS	7.865	-0.064	8.6	0.05	7.0	1.0000	-
DS/P10-11.3.0	FIRST	EQ	PS	8.367	-0.088	4.4	0.05	7.0	1.0000	-
DS/P10-11.3.0	CROSS	1	PS	8.408	-0.095	3.1	0.05	7.0	1.0000	400
DS/P10-11.3.0	CROSS	2	PS	8.408	-0.095	3.1	0.05	7.0	1.0000	400
DS/P10-11.3.0	CROSS	EQ	PS	8.408	-0.095	3.1	0.12	12.7	0.9430	400
DS/P10-11.4.0	FIRST	1	PS	7.645	-0.024	5.5	0.05	7.0	1.0000	-
DS/P10-11.4.0	FIRST	2	PS	7.899	-0.068	8.4	0.05	7.0	1.0000	-
DS/P10-11.4.0	FIRST	EQ	PS	8.416	-0.096	4.2	0.05	7.0	1.0000	-
DS/P10-11.4.0	CROSS	1	PS	8.455	-0.104	2.9	0.05	7.0	1.0000	397

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DS/P10-11.4.0	CROSS	2	PS	8.455	-0.104	2.9	0.05	7.0	1.0000		397
DS/P10-11.4.0	CROSS	EQ	PS	8.455	-0.104	2.9	0.12	12.3	0.9363		397
DS/P11-12.1.0	FIRST	1	PS	7.634	-0.281	4.4	0.05	7.0	1.0000		-
DS/P11-12.1.0	FIRST	2	PS	7.856	-0.578	7.7	0.05	7.0	1.0000		-
DS/P11-12.1.0	FIRST	EQ	PS	8.364	-0.923	1.6	0.05	7.0	1.0000		-
DS/P11-12.1.0	CROSS	1	PS	8.393	-0.933	0.0	0.05	7.0	1.0000		381
DS/P11-12.1.0	CROSS	2	PS	8.393	-0.933	0.0	0.05	7.0	1.0000		381
DS/P11-12.1.0	CROSS	EQ	PS	8.393	-0.933	0.0	0.12	15.6	0.9931		381
DS/P11-12.2.0	FIRST	1	PS	7.635	-0.366	6.9	0.05	7.0	1.0000		-
DS/P11-12.2.0	FIRST	2	PS	7.859	-0.743	10.8	0.05	5.9	0.9574		-
DS/P11-12.2.0	FIRST	EQ	PS	8.475	-1.151	6.5	0.05	7.0	1.0000		-
DS/P11-12.2.0	CROSS	1	PS	8.532	-1.157	5.1	0.05	7.0	1.0000		412
DS/P11-12.2.0	CROSS	2	PS	8.532	-1.157	5.1	0.05	7.0	1.0000		412
DS/P11-12.2.0	CROSS	EQ	PS	8.532	-1.157	5.1	0.12	9.7	0.8829		412
DS/P11-12.3.0	FIRST	1	PS	7.667	-0.375	6.2	0.05	7.0	1.0000		-
DS/P11-12.3.0	FIRST	2	PS	7.898	-0.771	10.6	0.05	5.9	0.9593		-
DS/P11-12.3.0	FIRST	EQ	PS	8.538	-1.198	6.2	0.05	7.0	1.0000		-
DS/P11-12.3.0	CROSS	1	PS	8.592	-1.205	4.8	0.05	7.0	1.0000		407
DS/P11-12.3.0	CROSS	2	PS	8.592	-1.205	4.8	0.05	7.0	1.0000		407
DS/P11-12.3.0	CROSS	EQ	PS	8.592	-1.205	4.8	0.12	9.8	0.8845		407
DS/P12-13.1..	FIRST	1	PS	7.516	-0.214	1.7	0.05	7.0	1.0000		-
DS/P12-13.1..	FIRST	2	PS	7.627	-0.460	3.9	0.05	7.0	1.0000		-
DS/P12-13.1..	FIRST	EQ	PS	7.820	-0.805	3.9	0.12	13.7	0.9612		-
DS/P12-13.2..	FIRST	1	PS	7.570	-0.360	2.0	0.05	7.0	1.0000		-
DS/P12-13.2..	FIRST	2	PS	7.732	-0.758	4.7	0.05	7.0	1.0000		-
DS/P12-13.2..	FIRST	EQ	PS	8.036	-1.285	3.1	0.12	13.8	0.9630		-
DS/P12-13.3..	FIRST	1	PS	7.609	-0.484	4.1	0.05	7.0	1.0000		-
DS/P12-13.3..	FIRST	2	PS	7.768	-1.021	8.6	0.05	7.0	1.0000		-
DS/P12-13.3..	FIRST	EQ	PS	8.135	-1.717	8.8	0.12	7.3	0.7222		-
DS/P12-13.4..	FIRST	1	PS	7.609	-0.484	4.1	0.05	7.0	1.0000		-
DS/P12-13.4..	FIRST	2	PS	7.768	-1.021	8.6	0.05	7.0	1.0000		-
DS/P12-13.4..	FIRST	EQ	PS	8.135	-1.717	8.8	0.12	7.3	0.7222		-
DS/P13-14.1..	FIRST	1	PS	7.527	-0.400	1.0	0.05	7.0	1.0000		-
DS/P13-14.1..	FIRST	2	PS	7.662	-0.852	2.6	0.05	7.0	1.0000		-
DS/P13-14.1..	FIRST	EQ	PS	7.828	-1.509	6.2	0.05	7.0	1.0000		-
DS/P13-14.1..	CROSS	1	PS	7.896	-1.625	4.9	0.05	7.0	1.0000		1365
DS/P13-14.1..	CROSS	2	PS	7.967	-1.743	2.9	0.05	7.0	1.0000		1365
DS/P13-14.1..	CROSS	EQ	PS	7.967	-1.743	2.9	0.12	12.6	0.9429		1365
DS/P13-14.2.0	FIRST	1	PS	7.606	-0.593	1.1	0.05	7.0	1.0000		-
DS/P13-14.2.0	FIRST	2	PS	7.816	-1.283	3.8	0.05	7.0	1.0000		-
DS/P13-14.2.0	FIRST	EQ	PS	8.140	-2.216	5.2	0.05	7.0	1.0000		-
DS/P13-14.2.0	CROSS	1	PS	8.212	-2.350	3.7	0.05	7.0	1.0000		1294
DS/P13-14.2.0	CROSS	2	PS	8.267	-2.458	2.2	0.05	7.0	1.0000		1294
DS/P13-14.2.0	CROSS	EQ	PS	8.267	-2.458	2.2	0.12	11.9	0.9288		1294
DS/P13-14.3..	FIRST	1	PS	7.601	-0.629	2.6	0.05	7.0	1.0000		-
DS/P13-14.3..	FIRST	2	PS	7.795	-1.306	5.5	0.05	7.0	1.0000		-
DS/P13-14.3..	FIRST	EQ	PS	8.095	-2.260	7.7	0.05	6.8	0.9942		-
DS/P13-14.3..	CROSS	1	PS	8.173	-2.386	6.4	0.05	7.0	1.0000		1356
DS/P13-14.3..	CROSS	2	PS	8.241	-2.490	5.0	0.05	7.0	1.0000		1356
DS/P13-14.3..	CROSS	EQ	PS	8.241	-2.490	5.0	0.12	9.1	0.8674		1356
DS/P13-14.4..	FIRST	1	PS	7.626	-0.707	2.1	0.05	7.0	1.0000		-
DS/P13-14.4..	FIRST	2	PS	7.848	-1.462	5.1	0.05	7.0	1.0000		-
DS/P13-14.4..	FIRST	EQ	PS	8.182	-2.487	7.3	0.05	6.7	0.9905		-
DS/P13-14.4..	CROSS	1	PS	8.261	-2.617	6.1	0.05	7.0	1.0000		1332

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FACSOL	CROSSTM s
DS/P13-14.4..	CROSS	2	PS	8.325	-2.719	4.7	0.05	7.0	1.0000	1332
DS/P13-14.4..	CROSS	EQ	PS	8.325	-2.719	4.7	0.12	8.9	0.8645	1332
DS/P14-15.1.0	FIRST	1	PS	7.638	-0.854	0.8	0.05	7.0	1.0000	-
DS/P14-15.1.0	FIRST	2	PS	7.907	-1.841	2.0	0.05	7.0	1.0000	-
DS/P14-15.1.0	FIRST	EQ	PS	8.389	-3.589	3.0	0.05	7.0	1.0000	-
DS/P14-15.1.0	CROSS	1	PS	8.454	-3.753	1.3	0.05	7.0	1.0000	1205
DS/P14-15.1.0	CROSS	2	PS	8.494	-3.865	0.0	0.05	7.0	1.0000	1205
DS/P14-15.1.0	CROSS	EQ	PS	8.494	-3.865	0.0	0.12	16.0	1.0000	1205
DS/P14-15.2.0	FIRST	1	PS	7.661	-0.945	0.6	0.05	7.0	1.0000	-
DS/P14-15.2.0	FIRST	2	PS	7.957	-2.029	1.8	0.05	7.0	1.0000	-
DS/P14-15.2.0	FIRST	EQ	PS	8.481	-3.928	2.8	0.05	7.0	1.0000	-
DS/P14-15.2.0	CROSS	1	PS	8.546	-4.094	1.2	0.05	7.0	1.0000	1191
DS/P14-15.2.0	CROSS	2	PS	8.583	-4.202	0.0	0.05	7.0	1.0000	1191
DS/P14-15.2.0	CROSS	EQ	PS	8.583	-4.202	0.0	0.12	16.0	1.0000	1191
DS/P15-16.1.0	FIRST	1	PS	7.628	-0.945	0.0	0.05	7.0	1.0000	-
DS/P15-16.1.0	FIRST	2	PS	7.897	-2.086	0.0	0.05	7.0	1.0000	-
DS/P15-16.1.0	FIRST	EQ	PS	8.443	-4.498	0.0	0.12	11.7	0.9249	-
DS/P15-16.2.0	FIRST	1	PS	7.628	-0.945	0.0	0.05	7.0	1.0000	-
DS/P15-16.2.0	FIRST	2	PS	7.897	-2.086	0.0	0.05	7.0	1.0000	-
DS/P15-16.2.0	FIRST	EQ	PS	8.443	-4.498	0.0	0.12	11.7	0.9249	-
DS/P16-17.1..	FIRST	1	PS	7.538	-0.670	0.0	0.05	7.0	1.0000	-
DS/P16-17.1..	FIRST	2	PS	7.697	-1.450	0.0	0.05	7.0	1.0000	-
DS/P16-17.1..	FIRST	EQ	PS	7.978	-2.873	0.0	0.12	16.0	1.0000	-
DS/P16-17.2..	FIRST	1	PS	7.538	-0.670	0.0	0.05	7.0	1.0000	-
DS/P16-17.2..	FIRST	2	PS	7.697	-1.450	0.0	0.05	7.0	1.0000	-
DS/P16-17.2..	FIRST	EQ	PS	7.978	-2.873	0.0	0.12	16.0	1.0000	-
DS/P17-18.1..	FIRST	1	PS	7.460	-0.339	0.0	0.05	7.0	1.0000	-
DS/P17-18.1..	FIRST	2	PS	7.525	-0.690	0.0	0.05	7.0	1.0000	-
DS/P17-18.1..	FIRST	EQ	PS	7.607	-1.138	0.0	0.12	16.0	1.0000	-
DS/P1-3.1.0-1	FIRST	1	PS	7.463	0.513	0.6	0.05	7.0	1.0000	-
DS/P1-3.1.0-1	FIRST	2	PS	7.537	1.142	2.0	0.05	7.0	1.0000	-
DS/P1-3.1.0-1	FIRST	EQ	PS	7.686	2.594	4.0	0.05	7.0	1.0000	-
DS/P1-3.1.0-1	INT1	1	PS	7.686	2.587	3.9	0.05	7.0	1.0000	-
DS/P1-3.1.0-1	INT1	2	PS	7.686	2.587	3.9	0.05	7.0	1.0000	-
DS/P1-3.1.0-1	INT1	EQ	PS	7.686	2.594	4.0	0.05	7.0	1.0000	-
DS/P1-3.1.0-1	INT2	1	PS	7.686	2.588	3.9	0.05	7.0	1.0000	-
DS/P1-3.1.0-1	INT2	2	PS	7.686	2.588	3.9	0.05	7.0	1.0000	-
DS/P1-3.1.0-1	INT2	EQ	PS	7.686	2.594	4.0	0.12	10.5	0.9008	-
DS/P1-3.2.0-1	FIRST	1	PS	7.463	0.513	0.6	0.05	7.0	1.0000	-
DS/P1-3.2.0-1	FIRST	2	PS	7.537	1.142	2.0	0.05	7.0	1.0000	-
DS/P1-3.2.0-1	FIRST	EQ	PS	7.686	2.594	4.0	0.05	7.0	1.0000	-
DS/P1-3.2.0-1	INT1	1	PS	7.686	2.587	3.9	0.05	7.0	1.0000	-
DS/P1-3.2.0-1	INT1	2	PS	7.686	2.587	3.9	0.05	7.0	1.0000	-
DS/P1-3.2.0-1	INT1	EQ	PS	7.686	2.594	4.0	0.05	7.0	1.0000	-
DS/P1-3.2.0-1	INT2	1	PS	7.686	2.588	3.9	0.05	7.0	1.0000	-
DS/P1-3.2.0-1	INT2	2	PS	7.686	2.588	3.9	0.05	7.0	1.0000	-
DS/P1-3.2.0-1	INT2	EQ	PS	7.686	2.594	4.0	0.12	10.5	0.9008	-
DS/P1-3.3.0	FIRST	1	PS	7.468	0.544	0.6	0.05	7.0	1.0000	-
DS/P1-3.3.0	FIRST	2	PS	7.548	1.213	2.0	0.05	7.0	1.0000	-
DS/P1-3.3.0	FIRST	EQ	PS	7.709	2.764	3.9	0.05	7.0	1.0000	-
DS/P1-3.3.0	INT1	1	PS	7.709	2.755	3.8	0.05	7.0	1.0000	-
DS/P1-3.3.0	INT1	2	PS	7.709	2.755	3.8	0.05	7.0	1.0000	-
DS/P1-3.3.0	INT1	EQ	PS	7.709	2.764	3.9	0.05	7.0	1.0000	-
DS/P1-3.3.0	INT2	1	PS	7.709	2.756	3.8	0.05	7.0	1.0000	-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DS/P1-3.3.0	INT2	2	PS	7.709	2.756	3.8	0.05	7.0	1.0000		-
DS/P1-3.3.0	INT2	EQ	PS	7.709	2.764	3.9	0.12	10.4	0.8968		-
DS/P1-3.4.0	FIRST	1	PS	7.484	0.642	0.8	0.05	7.0	1.0000		-
DS/P1-3.4.0	FIRST	2	PS	7.575	1.434	2.6	0.05	7.0	1.0000		-
DS/P1-3.4.0	FIRST	EQ	PS	7.761	3.285	4.9	0.05	7.0	1.0000		-
DS/P1-3.4.0	INT1	1	PS	7.764	3.230	4.4	0.05	7.0	1.0000		-
DS/P1-3.4.0	INT1	2	PS	7.764	3.230	4.4	0.05	7.0	1.0000		-
DS/P1-3.4.0	INT1	EQ	PS	7.761	3.285	4.9	0.05	7.0	1.0000		-
DS/P1-3.4.0	INT2	1	PS	7.764	3.235	4.4	0.05	7.0	1.0000		-
DS/P1-3.4.0	INT2	2	PS	7.764	3.235	4.4	0.05	7.0	1.0000		-
DS/P1-3.4.0	INT2	EQ	PS	7.761	3.285	4.9	0.12	8.6	0.8553		-
DS/P2-4.1.0	FIRST	1	PS	7.509	0.712	0.8	0.05	7.0	1.0000		-
DS/P2-4.1.0	FIRST	2	PS	7.619	1.588	3.3	0.05	7.0	1.0000		-
DS/P2-4.1.0	FIRST	EQ	PS	7.823	3.158	4.8	0.05	7.0	1.0000		-
DS/P2-4.1.0	INT1	1	PS	7.824	3.110	4.3	0.05	7.0	1.0000		-
DS/P2-4.1.0	INT1	2	PS	7.824	3.110	4.3	0.05	7.0	1.0000		-
DS/P2-4.1.0	INT1	EQ	PS	7.823	3.158	4.8	0.05	7.0	1.0000		-
DS/P2-4.1.0	INT2	1	PS	7.824	3.115	4.4	0.05	7.0	1.0000		-
DS/P2-4.1.0	INT2	2	PS	7.824	3.115	4.4	0.05	7.0	1.0000		-
DS/P2-4.1.0	INT2	EQ	PS	7.823	3.158	4.8	0.12	9.5	0.8771		-
DS/P2-4.2.0	FIRST	1	PS	7.514	0.753	0.8	0.05	7.0	1.0000		-
DS/P2-4.2.0	FIRST	2	PS	7.630	1.663	3.2	0.05	7.0	1.0000		-
DS/P2-4.2.0	FIRST	EQ	PS	7.843	3.289	4.7	0.05	7.0	1.0000		-
DS/P2-4.2.0	INT1	1	PS	7.844	3.233	4.2	0.05	7.0	1.0000		-
DS/P2-4.2.0	INT1	2	PS	7.844	3.233	4.2	0.05	7.0	1.0000		-
DS/P2-4.2.0	INT1	EQ	PS	7.843	3.289	4.7	0.05	7.0	1.0000		-
DS/P2-4.2.0	INT2	1	PS	7.844	3.238	4.3	0.05	7.0	1.0000		-
DS/P2-4.2.0	INT2	2	PS	7.844	3.239	4.3	0.05	7.0	1.0000		-
DS/P2-4.2.0	INT2	EQ	PS	7.843	3.289	4.7	0.12	9.3	0.8738		-
DS/P3-5.1.0	FIRST	1	PS	7.597	0.817	1.7	0.05	7.0	1.0000		-
DS/P3-5.1.0	FIRST	2	PS	7.776	1.790	5.0	0.05	7.0	1.0000		-
DS/P3-5.1.0	FIRST	EQ	PS	8.109	3.200	3.9	0.05	7.0	1.0000		-
DS/P3-5.1.0	INT1	1	PS	8.108	3.181	3.7	0.05	7.0	1.0000		-
DS/P3-5.1.0	INT1	2	PS	8.108	3.181	3.7	0.05	7.0	1.0000		-
DS/P3-5.1.0	INT1	EQ	PS	8.109	3.200	3.9	0.05	7.0	1.0000		-
DS/P3-5.1.0	INT2	1	PS	8.108	3.190	3.8	0.05	7.0	1.0000		-
DS/P3-5.1.0	INT2	2	PS	8.108	3.190	3.8	0.05	7.0	1.0000		-
DS/P3-5.1.0	INT2	EQ	PS	8.109	3.200	3.9	0.12	7.6	0.8291		-
DS/P3-5.2.0	FIRST	1	PS	7.601	0.866	1.6	0.05	7.0	1.0000		-
DS/P3-5.2.0	FIRST	2	PS	7.787	1.867	4.9	0.05	7.0	1.0000		-
DS/P3-5.2.0	FIRST	EQ	PS	8.127	3.311	3.9	0.05	7.0	1.0000		-
DS/P3-5.2.0	INT1	1	PS	8.126	3.288	3.7	0.05	7.0	1.0000		-
DS/P3-5.2.0	INT1	2	PS	8.126	3.288	3.7	0.05	7.0	1.0000		-
DS/P3-5.2.0	INT1	EQ	PS	8.127	3.311	3.9	0.05	7.0	1.0000		-
DS/P3-5.2.0	INT2	1	PS	8.127	3.298	3.8	0.05	7.0	1.0000		-
DS/P3-5.2.0	INT2	2	PS	8.127	3.298	3.8	0.05	7.0	1.0000		-
DS/P3-5.2.0	INT2	EQ	PS	8.127	3.311	3.9	0.12	7.3	0.8232		-
DS/P4-6.1.0	FIRST	1	PS	7.611	0.741	0.0	0.05	7.0	1.0000		-
DS/P4-6.1.0	FIRST	2	PS	7.837	1.482	0.0	0.05	7.0	1.0000		-
DS/P4-6.1.0	FIRST	EQ	PS	8.112	2.336	1.2	0.12	12.4	0.9375		-
DS/P4-6.2.0	FIRST	1	PS	7.630	0.852	1.7	0.05	7.0	1.0000		-
DS/P4-6.2.0	FIRST	2	PS	7.855	1.730	4.4	0.05	7.0	1.0000		-
DS/P4-6.2.0	FIRST	EQ	PS	8.196	2.820	3.9	0.12	8.6	0.8556		-
DS/P4-6.3.0	FIRST	1	PS	7.631	0.855	1.8	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FACSOL	CROSSTM s
DS/P4-6.3.0	FIRST	2	PS	7.859	1.744	4.5	0.05	7.0	1.0000	-
DS/P4-6.3.0	FIRST	EQ	PS	8.211	2.873	3.9	0.12	8.4	0.8513	-
DS/P4-6.4.0	FIRST	1	PS	7.633	0.874	2.0	0.05	7.0	1.0000	-
DS/P4-6.4.0	FIRST	2	PS	7.865	1.785	4.7	0.05	7.0	1.0000	-
DS/P4-6.4.0	FIRST	EQ	PS	8.236	2.986	4.1	0.12	7.8	0.8359	-
DS/P4-6.5.0	FIRST	1	PS	7.633	0.875	2.0	0.05	7.0	1.0000	-
DS/P4-6.5.0	FIRST	2	PS	7.866	1.788	4.7	0.05	7.0	1.0000	-
DS/P4-6.5.0	FIRST	EQ	PS	8.237	2.992	4.2	0.12	7.7	0.8342	-
DS/P4-6.6.0	FIRST	1	PS	7.637	0.882	1.9	0.05	7.0	1.0000	-
DS/P4-6.6.0	FIRST	2	PS	7.874	1.806	4.7	0.05	7.0	1.0000	-
DS/P4-6.6.0	FIRST	EQ	PS	8.248	3.023	4.2	0.12	7.6	0.8301	-
DS/P4-6.7.0	FIRST	1	PS	7.641	0.905	1.8	0.05	7.0	1.0000	-
DS/P4-6.7.0	FIRST	2	PS	7.882	1.843	4.6	0.05	7.0	1.0000	-
DS/P4-6.7.0	FIRST	EQ	PS	8.261	3.077	4.1	0.12	7.4	0.8243	-
DS/P5-7.1.0	FIRST	1	PS	7.598	0.511	0.0	0.05	7.0	1.0000	-
DS/P5-7.1.0	FIRST	2	PS	7.802	1.116	0.0	0.05	7.0	1.0000	-
DS/P5-7.1.0	FIRST	EQ	PS	8.043	1.772	0.0	0.12	15.1	0.9858	-
DS/P5-7.2.0	FIRST	1	PS	7.604	0.528	0.7	0.05	7.0	1.0000	-
DS/P5-7.2.0	FIRST	2	PS	7.823	1.158	0.7	0.05	7.0	1.0000	-
DS/P5-7.2.0	FIRST	EQ	PS	8.105	1.874	0.2	0.12	14.5	0.9763	-
DS/P5-7.3.0	FIRST	1	PS	7.605	0.531	0.7	0.05	7.0	1.0000	-
DS/P5-7.3.0	FIRST	2	PS	7.827	1.169	0.7	0.05	7.0	1.0000	-
DS/P5-7.3.0	FIRST	EQ	PS	8.117	1.916	0.2	0.12	14.4	0.9748	-
DS/P5-7.4.0	FIRST	1	PS	7.606	0.533	0.8	0.05	7.0	1.0000	-
DS/P5-7.4.0	FIRST	2	PS	7.827	1.172	0.8	0.05	7.0	1.0000	-
DS/P5-7.4.0	FIRST	EQ	PS	8.119	1.921	0.3	0.12	14.4	0.9739	-
DS/P5-7.5.0	FIRST	1	PS	7.609	0.543	0.7	0.05	7.0	1.0000	-
DS/P5-7.5.0	FIRST	2	PS	7.834	1.191	0.8	0.05	7.0	1.0000	-
DS/P5-7.5.0	FIRST	EQ	PS	8.130	1.951	0.3	0.12	14.3	0.9727	-
DS/P6-8.1.0-1	FIRST	1	PS	7.450	0.128	0.0	0.05	7.0	1.0000	-
DS/P6-8.1.0-1	FIRST	2	PS	7.501	0.256	0.0	0.05	7.0	1.0000	-
DS/P6-8.1.0-1	FIRST	EQ	PS	7.555	0.388	0.0	0.12	16.0	1.0000	-
DS/P6-8.2.0	FIRST	1	PS	7.702	0.734	1.7	0.05	7.0	1.0000	-
DS/P6-8.2.0	FIRST	2	PS	8.025	1.490	3.3	0.05	7.0	1.0000	-
DS/P6-8.2.0	FIRST	EQ	PS	8.485	2.424	0.4	0.12	10.5	0.9009	-
DS/P6-8.3.0	FIRST	1	PS	7.702	0.734	1.7	0.05	7.0	1.0000	-
DS/P6-8.3.0	FIRST	2	PS	8.025	1.490	3.3	0.05	7.0	1.0000	-
DS/P6-8.3.0	FIRST	EQ	PS	8.485	2.424	0.4	0.12	10.5	0.9009	-
DS/P6-8.4.0	FIRST	1	PS	7.702	0.737	1.8	0.05	7.0	1.0000	-
DS/P6-8.4.0	FIRST	2	PS	8.026	1.495	3.4	0.05	7.0	1.0000	-
DS/P6-8.4.0	FIRST	EQ	PS	8.488	2.432	0.4	0.12	10.4	0.8983	-
DS/P6-8.5.0	FIRST	1	PS	7.704	0.743	1.7	0.05	7.0	1.0000	-
DS/P6-8.5.0	FIRST	2	PS	8.030	1.505	3.4	0.05	7.0	1.0000	-
DS/P6-8.5.0	FIRST	EQ	PS	8.494	2.448	0.4	0.12	10.3	0.8963	-
DS/P6-8.6.0	FIRST	1	PS	7.709	0.745	1.7	0.05	7.0	1.0000	-
DS/P6-8.6.0	FIRST	2	PS	8.040	1.516	3.3	0.05	7.0	1.0000	-
DS/P6-8.6.0	FIRST	EQ	PS	8.510	2.471	0.4	0.12	10.1	0.8919	-
DS/P7-9.1.0-1	FIRST	1	PS	7.560	0.306	0.0	0.05	7.0	1.0000	-
DS/P7-9.1.0-1	FIRST	2	PS	7.731	0.612	0.0	0.05	7.0	1.0000	-
DS/P7-9.1.0-1	FIRST	EQ	PS	7.927	0.956	0.0	0.12	16.0	1.0000	-
DS/P7-9.2.0	FIRST	1	PS	7.592	0.353	0.5	0.05	7.0	1.0000	-
DS/P7-9.2.0	FIRST	2	PS	7.795	0.713	0.4	0.05	7.0	1.0000	-
DS/P7-9.2.0	FIRST	EQ	PS	8.028	1.110	0.2	0.12	16.0	1.0000	-
DS/P7-9.3.0	FIRST	1	PS	7.593	0.355	0.5	0.05	7.0	1.0000	-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DS/P7-9.3.0	FIRST	2	PS	7.798	0.718	0.4	0.05	7.0	1.0000		-
DS/P7-9.3.0	FIRST	EQ	PS	8.037	1.119	0.2	0.12	16.0	1.0000		-
DS/P7-9.4.0	FIRST	1	PS	7.593	0.356	0.6	0.05	7.0	1.0000		-
DS/P7-9.4.0	FIRST	2	PS	7.799	0.720	0.4	0.05	7.0	1.0000		-
DS/P7-9.4.0	FIRST	EQ	PS	8.039	1.122	0.2	0.12	16.0	1.0000		-
DS/P7-9.5.0	FIRST	1	PS	7.593	0.356	0.6	0.05	7.0	1.0000		-
DS/P7-9.5.0	FIRST	2	PS	7.799	0.720	0.4	0.05	7.0	1.0000		-
DS/P7-9.5.0	FIRST	EQ	PS	8.039	1.122	0.2	0.12	16.0	1.0000		-
DS/P7-9.6.0	FIRST	1	PS	7.597	0.362	0.5	0.05	7.0	1.0000		-
DS/P7-9.6.0	FIRST	2	PS	7.808	0.734	0.4	0.05	7.0	1.0000		-
DS/P7-9.6.0	FIRST	EQ	PS	8.053	1.144	0.2	0.12	16.0	1.0000		-
DS/P8-10.1.0	FIRST	1	PS	7.683	0.401	1.5	0.05	7.0	1.0000		-
DS/P8-10.1.0	FIRST	2	PS	7.982	0.801	3.3	0.05	7.0	1.0000		-
DS/P8-10.1.0	FIRST	EQ	PS	8.407	1.291	0.0	0.12	14.9	0.9828		-
DS/P8-10.2.0	FIRST	1	PS	7.682	0.394	3.5	0.05	7.0	1.0000		-
DS/P8-10.2.0	FIRST	2	PS	7.973	0.801	5.9	0.05	7.0	1.0000		-
DS/P8-10.2.0	FIRST	EQ	PS	8.457	1.316	2.1	0.12	12.6	0.9417		-
DS/P8-10.3.0	FIRST	1	PS	7.682	0.396	3.5	0.05	7.0	1.0000		-
DS/P8-10.3.0	FIRST	2	PS	7.977	0.806	5.9	0.05	7.0	1.0000		-
DS/P8-10.3.0	FIRST	EQ	PS	8.470	1.329	2.1	0.12	12.5	0.9406		-
DS/P8-10.4.0	FIRST	1	PS	7.689	0.400	3.6	0.05	7.0	1.0000		-
DS/P8-10.4.0	FIRST	2	PS	7.986	0.809	6.2	0.05	7.0	1.0000		-
DS/P8-10.4.0	FIRST	EQ	PS	8.494	1.338	2.5	0.12	12.0	0.9312		-
DS/P8-10.5.0	FIRST	1	PS	7.688	0.401	3.7	0.05	7.0	1.0000		-
DS/P8-10.5.0	FIRST	2	PS	7.987	0.811	6.3	0.05	7.0	1.0000		-
DS/P8-10.5.0	FIRST	EQ	PS	8.496	1.341	2.5	0.12	12.0	0.9304		-
DS/P8-10.6.0	FIRST	1	PS	7.696	0.394	3.5	0.05	7.0	1.0000		-
DS/P8-10.6.0	FIRST	2	PS	8.001	0.810	6.1	0.05	7.0	1.0000		-
DS/P8-10.6.0	FIRST	EQ	PS	8.515	1.347	2.5	0.12	12.0	0.9298		-
DS/P8-10.7.0	FIRST	1	PS	7.702	0.405	3.4	0.05	7.0	1.0000		-
DS/P8-10.7.0	FIRST	2	PS	8.012	0.826	6.0	0.05	7.0	1.0000		-
DS/P8-10.7.0	FIRST	EQ	PS	8.531	1.369	2.4	0.12	11.9	0.9292		-
DS/P9-11.1.0	FIRST	1	PS	7.713	0.250	6.4	0.05	7.0	1.0000		-
DS/P9-11.1.0	FIRST	2	PS	8.066	0.410	9.5	0.05	6.6	0.9847		-
DS/P9-11.1.0	FIRST	EQ	PS	8.856	0.607	1.3	0.05	7.0	1.0000		-
DS/P9-11.1.0	CROSS	1	PS	8.882	0.598	0.0	0.05	7.0	1.0000		368
DS/P9-11.1.0	CROSS	2	PS	8.882	0.598	0.0	0.05	7.0	1.0000		368
DS/P9-11.1.0	CROSS	EQ	PS	8.882	0.598	0.0	0.12	13.5	0.9587		368
DS/P9-11.2.0	FIRST	1	PS	7.682	0.206	8.6	0.05	7.0	1.0000		-
DS/P9-11.2.0	FIRST	2	PS	8.048	0.407	11.5	0.05	4.4	0.8916		-
DS/P9-11.2.0	FIRST	EQ	PS	8.924	0.629	4.5	0.05	7.0	1.0000		-
DS/P9-11.2.0	CROSS	1	PS	8.966	0.611	3.0	0.05	7.0	1.0000		383
DS/P9-11.2.0	CROSS	2	PS	8.966	0.611	3.0	0.05	7.0	1.0000		383
DS/P9-11.2.0	CROSS	EQ	PS	8.966	0.611	3.0	0.12	10.1	0.8924		383
DS/P9-11.3.0	FIRST	1	PS	7.683	0.206	8.6	0.05	7.0	1.0000		-
DS/P9-11.3.0	FIRST	2	PS	8.055	0.409	11.4	0.05	4.5	0.8936		-
DS/P9-11.3.0	FIRST	EQ	PS	8.941	0.645	4.5	0.05	7.0	1.0000		-
DS/P9-11.3.0	CROSS	1	PS	8.983	0.626	3.0	0.05	7.0	1.0000		383
DS/P9-11.3.0	CROSS	2	PS	8.983	0.626	3.0	0.05	7.0	1.0000		383
DS/P9-11.3.0	CROSS	EQ	PS	8.983	0.626	3.0	0.12	10.1	0.8907		383
DS/P9-11.4.0	FIRST	1	PS	7.689	0.208	8.7	0.05	7.0	1.0000		-
DS/P9-11.4.0	FIRST	2	PS	8.066	0.414	11.6	0.05	4.3	0.8827		-
DS/P9-11.4.0	FIRST	EQ	PS	8.964	0.657	5.0	0.05	7.0	1.0000		-
DS/P9-11.4.0	CROSS	1	PS	9.008	0.636	3.4	0.05	7.0	1.0000		385

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FACSOL	CROSSTM s
DS/P9-11.4.0	CROSS	2	PS	9.008	0.636	3.4	0.05	7.0	1.0000	385
DS/P9-11.4.0	CROSS	EQ	PS	9.008	0.636	3.4	0.12	9.5	0.8785	385
DS/P9-11.5.0	FIRST	1	PS	7.689	0.211	8.7	0.05	7.0	1.0000	-
DS/P9-11.5.0	FIRST	2	PS	8.066	0.416	11.6	0.05	4.2	0.8814	-
DS/P9-11.5.0	FIRST	EQ	PS	8.965	0.660	5.0	0.05	7.0	1.0000	-
DS/P9-11.5.0	CROSS	1	PS	9.009	0.639	3.5	0.05	7.0	1.0000	385
DS/P9-11.5.0	CROSS	2	PS	9.009	0.639	3.5	0.05	7.0	1.0000	385
DS/P9-11.5.0	CROSS	EQ	PS	9.009	0.639	3.5	0.12	9.5	0.8775	385
DS/P9-11.6.0	FIRST	1	PS	7.720	0.196	8.1	0.05	7.0	1.0000	-
DS/P9-11.6.0	FIRST	2	PS	8.099	0.405	11.5	0.05	4.2	0.8822	-
DS/P9-11.6.0	FIRST	EQ	PS	9.018	0.653	4.8	0.05	7.0	1.0000	-
DS/P9-11.6.0	CROSS	1	PS	9.059	0.632	3.3	0.05	7.0	1.0000	383
DS/P9-11.6.0	CROSS	2	PS	9.059	0.632	3.3	0.05	7.0	1.0000	383
DS/P9-11.6.0	CROSS	EQ	PS	9.059	0.632	3.3	0.12	9.5	0.8768	383
DS/P9-11.7.0	FIRST	1	PS	7.730	0.213	7.9	0.05	7.0	1.0000	-
DS/P9-11.7.0	FIRST	2	PS	8.109	0.422	11.5	0.05	4.2	0.8817	-
DS/P9-11.7.0	FIRST	EQ	PS	9.034	0.671	4.7	0.05	7.0	1.0000	-
DS/P9-11.7.0	CROSS	1	PS	9.075	0.650	3.3	0.05	7.0	1.0000	382
DS/P9-11.7.0	CROSS	2	PS	9.075	0.650	3.3	0.05	7.0	1.0000	382
DS/P9-11.7.0	CROSS	EQ	PS	9.075	0.650	3.3	0.12	9.4	0.8761	382
DS/P10-12.1.0	FIRST	1	PS	7.635	-0.228	8.3	0.05	7.0	1.0000	-
DS/P10-12.1.0	FIRST	2	PS	7.931	-0.466	11.5	0.05	4.9	0.9156	-
DS/P10-12.1.0	FIRST	EQ	PS	8.795	-0.779	2.4	0.05	7.0	1.0000	-
DS/P10-12.1.0	CROSS	1	PS	8.831	-0.790	0.0	0.05	7.0	1.0000	372
DS/P10-12.1.0	CROSS	2	PS	8.831	-0.790	0.0	0.05	7.0	1.0000	372
DS/P10-12.1.0	CROSS	EQ	PS	8.831	-0.790	0.0	0.12	12.0	0.9316	372
DS/P11-13.1..	FIRST	1	PS	7.629	-0.298	4.8	0.05	7.0	1.0000	-
DS/P11-13.1..	FIRST	2	PS	7.820	-0.671	9.4	0.05	7.0	1.0000	-
DS/P11-13.1..	FIRST	EQ	PS	8.351	-1.261	8.5	0.11	7.2	0.7232	-
DS/P11-13.2..	FIRST	1	PS	7.655	-0.452	6.2	0.05	7.0	1.0000	-
DS/P11-13.2..	FIRST	2	PS	7.901	-0.966	10.4	0.05	6.7	0.9903	-
DS/P11-13.2..	FIRST	EQ	PS	8.638	-1.702	6.1	0.12	9.0	0.8663	-
DS/P16-18.1..	FIRST	1	PS	7.561	-0.819	0.0	0.05	7.0	1.0000	-
DS/P16-18.1..	FIRST	2	PS	7.746	-1.764	0.0	0.05	7.0	1.0000	-
DS/P16-18.1..	FIRST	EQ	PS	8.097	-3.589	0.0	0.12	16.0	1.0000	-
DS/P16-18.2..	FIRST	1	PS	7.561	-0.819	0.0	0.05	7.0	1.0000	-
DS/P16-18.2..	FIRST	2	PS	7.746	-1.764	0.0	0.05	7.0	1.0000	-
DS/P16-18.2..	FIRST	EQ	PS	8.097	-3.589	0.0	0.12	16.0	1.0000	-
DS/P4-7.1.0	FIRST	1	PS	7.646	0.706	0.0	0.05	7.0	1.0000	-
DS/P4-7.1.0	FIRST	2	PS	7.900	1.530	0.0	0.05	7.0	1.0000	-
DS/P4-7.1.0	FIRST	EQ	PS	8.208	2.488	1.2	0.12	11.8	0.9261	-
DS/P4-7.2.0	FIRST	1	PS	7.672	0.817	1.5	0.05	7.0	1.0000	-
DS/P4-7.2.0	FIRST	2	PS	7.920	1.808	5.5	0.05	7.0	1.0000	-
DS/P4-7.2.0	FIRST	EQ	PS	8.347	3.128	5.6	0.12	4.9	0.7437	-
DS/P4-7.3.0	FIRST	1	PS	7.673	0.820	1.5	0.05	7.0	1.0000	-
DS/P4-7.3.0	FIRST	2	PS	7.923	1.823	5.5	0.05	7.0	1.0000	-
DS/P4-7.3.0	FIRST	EQ	PS	8.364	3.190	5.7	0.12	4.6	0.7303	-
DS/P5-8.1.0	FIRST	1	PS	7.598	0.511	0.0	0.05	7.0	1.0000	-
DS/P5-8.1.0	FIRST	2	PS	7.802	1.116	0.0	0.05	7.0	1.0000	-
DS/P5-8.1.0	FIRST	EQ	PS	8.043	1.772	0.0	0.12	15.1	0.9858	-
DS/P5-8.2.0	FIRST	1	PS	7.703	0.739	1.7	0.05	7.0	1.0000	-
DS/P5-8.2.0	FIRST	2	PS	8.027	1.496	3.2	0.05	7.0	1.0000	-
DS/P5-8.2.0	FIRST	EQ	PS	8.487	2.433	0.4	0.12	10.5	0.9000	-
DS/P5-8.3.0	FIRST	1	PS	7.704	0.741	1.7	0.05	7.0	1.0000	-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DS/P5-8.3.0	FIRST	2	PS	8.032	1.506	3.2	0.05	7.0	1.0000		-
DS/P5-8.3.0	FIRST	EQ	PS	8.504	2.489	0.4	0.12	10.2	0.8941		-
DS/P5-8.4.0	FIRST	1	PS	7.704	0.744	1.8	0.05	7.0	1.0000		-
DS/P5-8.4.0	FIRST	2	PS	8.032	1.512	3.4	0.05	7.0	1.0000		-
DS/P5-8.4.0	FIRST	EQ	PS	8.508	2.497	0.4	0.12	10.1	0.8914		-
DS/P5-8.5.0	FIRST	1	PS	7.707	0.758	1.7	0.05	7.0	1.0000		-
DS/P5-8.5.0	FIRST	2	PS	8.039	1.532	3.3	0.05	7.0	1.0000		-
DS/P5-8.5.0	FIRST	EQ	PS	8.519	2.528	0.4	0.12	9.9	0.8877		-
DS/P5-8.6.0	FIRST	1	PS	7.712	0.760	1.7	0.05	7.0	1.0000		-
DS/P5-8.6.0	FIRST	2	PS	8.049	1.543	3.2	0.05	7.0	1.0000		-
DS/P5-8.6.0	FIRST	EQ	PS	8.535	2.551	0.4	0.12	9.7	0.8831		-
DS/P6-9.1.0	FIRST	1	PS	7.606	0.460	0.0	0.05	7.0	1.0000		-
DS/P6-9.1.0	FIRST	2	PS	7.829	0.848	0.0	0.05	7.0	1.0000		-
DS/P6-9.1.0	FIRST	EQ	PS	8.084	1.275	0.0	0.12	15.5	0.9915		-
DS/P6-9.2.0	FIRST	1	PS	7.702	0.734	1.7	0.05	7.0	1.0000		-
DS/P6-9.2.0	FIRST	2	PS	8.025	1.490	3.3	0.05	7.0	1.0000		-
DS/P6-9.2.0	FIRST	EQ	PS	8.485	2.424	0.4	0.12	10.5	0.9009		-
DS/P6-9.3.0	FIRST	1	PS	7.703	0.736	1.7	0.05	7.0	1.0000		-
DS/P6-9.3.0	FIRST	2	PS	8.029	1.498	3.2	0.05	7.0	1.0000		-
DS/P6-9.3.0	FIRST	EQ	PS	8.499	2.440	0.4	0.12	10.4	0.8970		-
DS/P6-9.4.0	FIRST	1	PS	7.703	0.739	1.8	0.05	7.0	1.0000		-
DS/P6-9.4.0	FIRST	2	PS	8.030	1.503	3.4	0.05	7.0	1.0000		-
DS/P6-9.4.0	FIRST	EQ	PS	8.502	2.448	0.4	0.12	10.2	0.8944		-
DS/P6-9.5.0	FIRST	1	PS	7.705	0.745	1.7	0.05	7.0	1.0000		-
DS/P6-9.5.0	FIRST	2	PS	8.034	1.513	3.4	0.05	7.0	1.0000		-
DS/P6-9.5.0	FIRST	EQ	PS	8.509	2.464	0.4	0.12	10.1	0.8923		-
DS/P6-9.6.0	FIRST	1	PS	7.710	0.747	1.7	0.05	7.0	1.0000		-
DS/P6-9.6.0	FIRST	2	PS	8.044	1.524	3.3	0.05	7.0	1.0000		-
DS/P6-9.6.0	FIRST	EQ	PS	8.524	2.487	0.4	0.12	9.9	0.8878		-
DS/P7-10.1.0	FIRST	1	PS	7.683	0.401	1.5	0.05	7.0	1.0000		-
DS/P7-10.1.0	FIRST	2	PS	7.982	0.801	3.3	0.05	7.0	1.0000		-
DS/P7-10.1.0	FIRST	EQ	PS	8.407	1.291	0.0	0.12	14.9	0.9828		-
DS/P7-10.2.0	FIRST	1	PS	7.682	0.394	3.5	0.05	7.0	1.0000		-
DS/P7-10.2.0	FIRST	2	PS	7.973	0.801	5.9	0.05	7.0	1.0000		-
DS/P7-10.2.0	FIRST	EQ	PS	8.457	1.316	2.1	0.12	12.6	0.9417		-
DS/P7-10.3.0	FIRST	1	PS	7.682	0.396	3.5	0.05	7.0	1.0000		-
DS/P7-10.3.0	FIRST	2	PS	7.977	0.806	5.9	0.05	7.0	1.0000		-
DS/P7-10.3.0	FIRST	EQ	PS	8.470	1.329	2.1	0.12	12.5	0.9406		-
DS/P7-10.4.0	FIRST	1	PS	7.689	0.400	3.6	0.05	7.0	1.0000		-
DS/P7-10.4.0	FIRST	2	PS	7.986	0.809	6.2	0.05	7.0	1.0000		-
DS/P7-10.4.0	FIRST	EQ	PS	8.494	1.338	2.5	0.12	12.0	0.9312		-
DS/P7-10.5.0	FIRST	1	PS	7.688	0.401	3.7	0.05	7.0	1.0000		-
DS/P7-10.5.0	FIRST	2	PS	7.987	0.811	6.3	0.05	7.0	1.0000		-
DS/P7-10.5.0	FIRST	EQ	PS	8.496	1.341	2.5	0.12	12.0	0.9304		-
DS/P7-10.6.0	FIRST	1	PS	7.696	0.394	3.5	0.05	7.0	1.0000		-
DS/P7-10.6.0	FIRST	2	PS	8.001	0.810	6.1	0.05	7.0	1.0000		-
DS/P7-10.6.0	FIRST	EQ	PS	8.515	1.347	2.5	0.12	12.0	0.9298		-
DS/P7-10.7.0	FIRST	1	PS	7.702	0.405	3.4	0.05	7.0	1.0000		-
DS/P7-10.7.0	FIRST	2	PS	8.012	0.826	6.0	0.05	7.0	1.0000		-
DS/P7-10.7.0	FIRST	EQ	PS	8.531	1.369	2.4	0.12	11.9	0.9292		-
DS/P8-11.1.0	FIRST	1	PS	7.659	0.312	9.9	0.05	7.0	1.0000		-
DS/P8-11.1.0	FIRST	2	PS	8.074	0.642	12.1	0.05	3.4	0.8349		-
DS/P8-11.1.0	FIRST	EQ	PS	9.089	1.025	1.9	0.05	7.0	1.0000		-
DS/P8-11.1.0	CROSS	1	SB	9.119	1.014	-0.0	0.05	7.0	1.0000		363

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DS/P8-11.1.0	CROSS	2	SB	9.119	1.014	-0.0	0.05	7.0	1.0000		363
DS/P8-11.1.0	CROSS	EQ	SB	9.119	1.014	-0.0	0.12	12.6	0.9422		363
DS/P8-11.2.0	FIRST	1	PS	7.640	0.277	11.1	0.05	6.5	0.9819		-
DS/P8-11.2.0	FIRST	2	PS	8.044	0.642	13.9	0.05	1.4	0.6685		-
DS/P8-11.2.0	FIRST	EQ	PS	9.137	1.054	5.7	0.05	6.5	0.9815		-
DS/P8-11.2.0	CROSS	1	PS	9.193	1.037	3.9	0.05	7.0	1.0000		384
DS/P8-11.2.0	CROSS	2	PS	9.193	1.037	3.9	0.05	7.0	1.0000		384
DS/P8-11.2.0	CROSS	EQ	PS	9.193	1.037	3.9	0.12	8.2	0.8458		384
DS/P8-11.3.0	FIRST	1	PS	7.641	0.277	11.1	0.05	6.5	0.9813		-
DS/P8-11.3.0	FIRST	2	PS	8.052	0.645	13.9	0.05	1.5	0.6750		-
DS/P8-11.3.0	FIRST	EQ	PS	9.157	1.072	5.7	0.05	6.4	0.9785		-
DS/P8-11.3.0	CROSS	1	PS	9.213	1.055	3.9	0.05	7.0	1.0000		383
DS/P8-11.3.0	CROSS	2	PS	9.213	1.055	3.9	0.05	7.0	1.0000		383
DS/P8-11.3.0	CROSS	EQ	PS	9.213	1.055	3.9	0.12	8.1	0.8437		383
DS/P8-11.4.0	FIRST	1	PS	7.646	0.280	11.2	0.05	6.4	0.9777		-
DS/P8-11.4.0	FIRST	2	PS	8.061	0.651	14.0	0.05	1.2	0.6427		-
DS/P8-11.4.0	FIRST	EQ	PS	9.177	1.083	6.1	0.05	5.9	0.9577		-
DS/P8-11.4.0	CROSS	1	PS	9.236	1.066	4.4	0.05	7.0	1.0000		385
DS/P8-11.4.0	CROSS	2	PS	9.236	1.066	4.4	0.05	7.0	1.0000		385
DS/P8-11.4.0	CROSS	EQ	PS	9.236	1.066	4.4	0.12	7.5	0.8285		385
DS/P8-11.5.0	FIRST	1	PS	7.647	0.282	11.2	0.05	6.4	0.9775		-
DS/P8-11.5.0	FIRST	2	PS	8.061	0.654	14.1	0.05	1.2	0.6360		-
DS/P8-11.5.0	FIRST	EQ	PS	9.179	1.086	6.1	0.05	5.8	0.9560		-
DS/P8-11.5.0	CROSS	1	PS	9.237	1.069	4.4	0.05	7.0	1.0000		386
DS/P8-11.5.0	CROSS	2	PS	9.237	1.069	4.4	0.05	7.0	1.0000		386
DS/P8-11.5.0	CROSS	EQ	PS	9.237	1.069	4.4	0.12	7.5	0.8273		386
DS/P8-11.6.0	FIRST	1	PS	7.692	0.263	10.4	0.05	7.0	1.0000		-
DS/P8-11.6.0	FIRST	2	PS	8.097	0.637	13.9	0.05	1.3	0.6516		-
DS/P8-11.6.0	FIRST	EQ	PS	9.236	1.080	5.8	0.05	6.0	0.9631		-
DS/P8-11.6.0	CROSS	1	PS	9.291	1.064	4.2	0.05	7.0	1.0000		382
DS/P8-11.6.0	CROSS	2	PS	9.291	1.064	4.2	0.05	7.0	1.0000		382
DS/P8-11.6.0	CROSS	EQ	PS	9.291	1.064	4.2	0.12	7.6	0.8292		382
DS/P8-11.7.0	FIRST	1	PS	7.706	0.281	10.1	0.05	7.0	1.0000		-
DS/P8-11.7.0	FIRST	2	PS	8.110	0.656	13.8	0.05	1.3	0.6521		-
DS/P8-11.7.0	FIRST	EQ	PS	9.256	1.101	5.7	0.05	6.1	0.9646		-
DS/P8-11.7.0	CROSS	1	PS	9.309	1.085	4.1	0.05	7.0	1.0000		381
DS/P8-11.7.0	CROSS	2	PS	9.309	1.085	4.1	0.05	7.0	1.0000		381
DS/P8-11.7.0	CROSS	EQ	PS	9.309	1.085	4.1	0.12	7.6	0.8293		381
DS/P9-12.1.0	FIRST	1	PS	7.641	0.005	11.8	0.05	5.8	0.9543		-
DS/P9-12.1.0	FIRST	2	PS	8.133	0.046	13.8	0.05	1.6	0.6951		-
DS/P9-12.1.0	FIRST	EQ	PS	9.452	-0.106	2.7	0.05	7.0	1.0000		-
DS/P9-12.1.0	CROSS	1	SB	9.488	-0.126	-0.0	0.05	7.0	1.0000		356
DS/P9-12.1.0	CROSS	2	SB	9.488	-0.126	-0.0	0.05	7.0	1.0000		356
DS/P9-12.1.0	CROSS	EQ	SB	9.488	-0.126	-0.0	0.12	10.5	0.9002		356
DS/P4-8.1.0	FIRST	1	PS	7.646	0.706	0.0	0.05	7.0	1.0000		-
DS/P4-8.1.0	FIRST	2	PS	7.900	1.530	0.0	0.05	7.0	1.0000		-
DS/P4-8.1.0	FIRST	EQ	PS	8.208	2.488	1.2	0.12	11.8	0.9261		-
DS/P5-9.1.0	FIRST	1	PS	7.703	0.729	0.9	0.05	7.0	1.0000		-
DS/P5-9.1.0	FIRST	2	PS	8.038	1.476	0.0	0.05	7.0	1.0000		-
DS/P5-9.1.0	FIRST	EQ	SB	8.474	2.402	-0.0	0.12	13.1	0.9508		-
DS/P5-9.2.0	FIRST	1	PS	7.703	0.739	1.7	0.05	7.0	1.0000		-
DS/P5-9.2.0	FIRST	2	PS	8.027	1.496	3.2	0.05	7.0	1.0000		-
DS/P5-9.2.0	FIRST	EQ	PS	8.487	2.433	0.4	0.12	10.5	0.9000		-
DS/P5-9.3.0	FIRST	1	PS	7.705	0.743	1.7	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DS/P5-9.3.0	FIRST	2	PS	8.036	1.514	3.2	0.05	7.0	1.0000		-
DS/P5-9.3.0	FIRST	EQ	PS	8.519	2.505	0.4	0.12	10.0	0.8899		-
DS/P5-9.4.0	FIRST	1	PS	7.705	0.746	1.8	0.05	7.0	1.0000		-
DS/P5-9.4.0	FIRST	2	PS	8.036	1.520	3.4	0.05	7.0	1.0000		-
DS/P5-9.4.0	FIRST	EQ	PS	8.523	2.514	0.4	0.12	9.9	0.8873		-
DS/P5-9.5.0	FIRST	1	PS	7.708	0.760	1.7	0.05	7.0	1.0000		-
DS/P5-9.5.0	FIRST	2	PS	8.043	1.540	3.3	0.05	7.0	1.0000		-
DS/P5-9.5.0	FIRST	EQ	PS	8.534	2.544	0.4	0.12	9.7	0.8834		-
DS/P5-9.6.0	FIRST	1	PS	7.713	0.762	1.7	0.05	7.0	1.0000		-
DS/P5-9.6.0	FIRST	2	PS	8.053	1.551	3.2	0.05	7.0	1.0000		-
DS/P5-9.6.0	FIRST	EQ	PS	8.550	2.568	0.4	0.12	9.5	0.8788		-
DS/P6-10.1.0	FIRST	1	PS	7.699	0.524	1.2	0.05	7.0	1.0000		-
DS/P6-10.1.0	FIRST	2	PS	8.024	0.945	2.9	0.05	7.0	1.0000		-
DS/P6-10.1.0	FIRST	EQ	SB	8.474	1.462	-0.0	0.12	7.6	0.8311		-
DS/P7-11.1.0	FIRST	1	PS	7.659	0.312	9.9	0.05	7.0	1.0000		-
DS/P7-11.1.0	FIRST	2	PS	8.074	0.642	12.1	0.05	3.4	0.8349		-
DS/P7-11.1.0	FIRST	EQ	PS	9.089	1.025	1.9	0.05	7.0	1.0000		-
DS/P7-11.1.0	CROSS	1	SB	9.119	1.014	-0.0	0.05	7.0	1.0000		363
DS/P7-11.1.0	CROSS	2	SB	9.119	1.014	-0.0	0.05	7.0	1.0000		363
DS/P7-11.1.0	CROSS	EQ	SB	9.119	1.014	-0.0	0.12	12.6	0.9422		363
DS/P7-11.2.0	FIRST	1	PS	7.640	0.277	11.1	0.05	6.5	0.9819		-
DS/P7-11.2.0	FIRST	2	PS	8.044	0.642	13.9	0.05	1.4	0.6685		-
DS/P7-11.2.0	FIRST	EQ	PS	9.137	1.054	5.7	0.05	6.5	0.9815		-
DS/P7-11.2.0	CROSS	1	PS	9.193	1.037	3.9	0.05	7.0	1.0000		384
DS/P7-11.2.0	CROSS	2	PS	9.193	1.037	3.9	0.05	7.0	1.0000		384
DS/P7-11.2.0	CROSS	EQ	PS	9.193	1.037	3.9	0.12	8.2	0.8458		384
DS/P7-11.3.0	FIRST	1	PS	7.641	0.277	11.1	0.05	6.5	0.9813		-
DS/P7-11.3.0	FIRST	2	PS	8.052	0.645	13.9	0.05	1.5	0.6750		-
DS/P7-11.3.0	FIRST	EQ	PS	9.157	1.072	5.7	0.05	6.4	0.9785		-
DS/P7-11.3.0	CROSS	1	PS	9.213	1.055	3.9	0.05	7.0	1.0000		383
DS/P7-11.3.0	CROSS	2	PS	9.213	1.055	3.9	0.05	7.0	1.0000		383
DS/P7-11.3.0	CROSS	EQ	PS	9.213	1.055	3.9	0.12	8.1	0.8437		383
DS/P7-11.4.0	FIRST	1	PS	7.646	0.280	11.2	0.05	6.4	0.9777		-
DS/P7-11.4.0	FIRST	2	PS	8.061	0.651	14.0	0.05	1.2	0.6427		-
DS/P7-11.4.0	FIRST	EQ	PS	9.177	1.083	6.1	0.05	5.9	0.9577		-
DS/P7-11.4.0	CROSS	1	PS	9.236	1.066	4.4	0.05	7.0	1.0000		385
DS/P7-11.4.0	CROSS	2	PS	9.236	1.066	4.4	0.05	7.0	1.0000		385
DS/P7-11.4.0	CROSS	EQ	PS	9.236	1.066	4.4	0.12	7.5	0.8285		385
DS/P7-11.5.0	FIRST	1	PS	7.647	0.282	11.2	0.05	6.4	0.9775		-
DS/P7-11.5.0	FIRST	2	PS	8.061	0.654	14.1	0.05	1.2	0.6360		-
DS/P7-11.5.0	FIRST	EQ	PS	9.179	1.086	6.1	0.05	5.8	0.9560		-
DS/P7-11.5.0	CROSS	1	PS	9.237	1.069	4.4	0.05	7.0	1.0000		386
DS/P7-11.5.0	CROSS	2	PS	9.237	1.069	4.4	0.05	7.0	1.0000		386
DS/P7-11.5.0	CROSS	EQ	PS	9.237	1.069	4.4	0.12	7.5	0.8273		386
DS/P7-11.6.0	FIRST	1	PS	7.692	0.263	10.4	0.05	7.0	1.0000		-
DS/P7-11.6.0	FIRST	2	PS	8.097	0.637	13.9	0.05	1.3	0.6516		-
DS/P7-11.6.0	FIRST	EQ	PS	9.236	1.080	5.8	0.05	6.0	0.9631		-
DS/P7-11.6.0	CROSS	1	PS	9.291	1.064	4.2	0.05	7.0	1.0000		382
DS/P7-11.6.0	CROSS	2	PS	9.291	1.064	4.2	0.05	7.0	1.0000		382
DS/P7-11.6.0	CROSS	EQ	PS	9.291	1.064	4.2	0.12	7.6	0.8292		382
DS/P7-11.7.0	FIRST	1	PS	7.706	0.281	10.1	0.05	7.0	1.0000		-
DS/P7-11.7.0	FIRST	2	PS	8.110	0.656	13.8	0.05	1.3	0.6521		-
DS/P7-11.7.0	FIRST	EQ	PS	9.256	1.101	5.7	0.05	6.1	0.9646		-
DS/P7-11.7.0	CROSS	1	PS	9.309	1.085	4.1	0.05	7.0	1.0000		381

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FACSOL	CROSSTM s
DS/P7-11.7.0	CROSS	2	PS	9.309	1.085	4.1	0.05	7.0	1.0000	381
DS/P7-11.7.0	CROSS	EQ	PS	9.309	1.085	4.1	0.12	7.6	0.8293	381
DS/P4-9.1.0	FIRST	1	PS	7.746	0.923	1.6	0.05	7.0	1.0000	-
DS/P4-9.1.0	FIRST	2	PS	8.079	1.906	5.8	0.05	7.0	1.0000	-
DS/P4-9.1.0	FIRST	EQ	PS	8.664	3.170	1.8	0.12	4.5	0.7283	-
DS/P5-10.1.0	FIRST	1	PS	7.774	0.772	3.7	0.05	7.0	1.0000	-
DS/P5-10.1.0	FIRST	2	PS	8.128	1.594	8.4	0.05	6.2	0.9696	-
DS/P5-10.1.0	FIRST	EQ	SB	8.926	2.665	-0.1	0.12	5.9	0.7787	-
DS/P6-11.1.0	FIRST	1	PS	7.694	0.453	9.3	0.05	7.0	1.0000	-
DS/P6-11.1.0	FIRST	2	PS	8.119	0.803	12.0	0.05	3.0	0.8071	-
DS/P6-11.1.0	FIRST	EQ	PS	9.165	1.195	1.8	0.05	7.0	1.0000	-
DS/P6-11.1.0	CROSS	1	SB	9.193	1.182	-0.0	0.05	2.2	0.7513	361
DS/P6-11.1.0	CROSS	2	SB	9.193	1.181	-0.0	0.05	2.2	0.7513	361
DS/P6-11.1.0	CROSS	EQ	SB	9.193	1.181	-0.0	0.05	2.2	0.4912	361
DS/S1.1.0-1	FIRST	1	PS	7.401	0.010	0.0	0.05	7.0	1.0000	-
DS/S1.1.0-1	FIRST	2	PS	7.402	0.021	0.0	0.05	7.0	1.0000	-
DS/S1.1.0-1	FIRST	EQ	PS	7.403	0.032	0.0	0.12	16.0	1.0000	-
DS/S1.2.0-1	FIRST	1	PS	7.401	0.010	0.0	0.05	7.0	1.0000	-
DS/S1.2.0-1	FIRST	2	PS	7.402	0.021	0.0	0.05	7.0	1.0000	-
DS/S1.2.0-1	FIRST	EQ	PS	7.403	0.032	0.0	0.12	16.0	1.0000	-
DS/S2.1.0-1	FIRST	1	PS	7.422	0.191	0.0	0.05	7.0	1.0000	-
DS/S2.1.0-1	FIRST	2	PS	7.446	0.410	0.0	0.05	7.0	1.0000	-
DS/S2.1.0-1	FIRST	EQ	PS	7.478	0.707	0.0	0.12	16.0	1.0000	-
DS/S3.1.0-1	FIRST	1	SB	7.437	0.259	-0.8	0.05	7.0	1.0000	-
DS/S3.1.0-1	FIRST	2	SB	7.475	0.546	-1.6	0.05	7.0	1.0000	-
DS/S3.1.0-1	FIRST	EQ	SB	7.521	0.893	-2.2	0.05	7.0	1.0000	-
DS/S3.1.0-1	INT1	1	SB	7.521	0.893	-2.2	0.05	7.0	1.0000	-
DS/S3.1.0-1	INT1	2	SB	7.521	0.893	-2.2	0.05	7.0	1.0000	-
DS/S3.1.0-1	INT1	EQ	SB	7.521	0.893	-2.2	0.05	7.0	1.0000	-
DS/S3.1.0-1	INT2	1	SB	7.521	0.893	-2.2	0.05	7.0	1.0000	-
DS/S3.1.0-1	INT2	2	SB	7.521	0.893	-2.2	0.05	7.0	1.0000	-
DS/S3.1.0-1	INT2	EQ	SB	7.521	0.893	-2.2	0.12	15.4	0.9908	-
DS/S3.2.0	FIRST	1	SB	7.442	0.293	-0.8	0.05	7.0	1.0000	-
DS/S3.2.0	FIRST	2	SB	7.485	0.616	-1.6	0.05	7.0	1.0000	-
DS/S3.2.0	FIRST	EQ	SB	7.538	1.006	-2.1	0.05	7.0	1.0000	-
DS/S3.2.0	INT1	1	SB	7.538	1.006	-2.1	0.05	7.0	1.0000	-
DS/S3.2.0	INT1	2	SB	7.538	1.006	-2.1	0.05	7.0	1.0000	-
DS/S3.2.0	INT1	EQ	SB	7.538	1.006	-2.1	0.05	7.0	1.0000	-
DS/S3.2.0	INT2	1	SB	7.538	1.006	-2.1	0.05	7.0	1.0000	-
DS/S3.2.0	INT2	2	SB	7.538	1.006	-2.1	0.05	7.0	1.0000	-
DS/S3.2.0	INT2	EQ	SB	7.538	1.006	-2.1	0.12	15.2	0.9876	-
DS/S3.3.0	FIRST	1	SB	7.456	0.397	-1.0	0.05	7.0	1.0000	-
DS/S3.3.0	FIRST	2	SB	7.513	0.824	-2.1	0.05	7.0	1.0000	-
DS/S3.3.0	FIRST	EQ	SB	7.582	1.344	-2.8	0.05	7.0	1.0000	-
DS/S3.3.0	INT2	1	SB	7.582	1.344	-2.8	0.05	7.0	1.0000	-
DS/S3.3.0	INT2	2	SB	7.582	1.344	-2.8	0.05	7.0	1.0000	-
DS/S3.3.0	INT2	EQ	SB	7.582	1.344	-2.8	0.12	13.8	0.9642	-
DS/S4.1.0	FIRST	1	SB	7.447	0.233	-0.1	0.05	7.0	1.0000	-
DS/S4.1.0	FIRST	2	SB	7.495	0.466	-0.3	0.05	7.0	1.0000	-
DS/S4.1.0	FIRST	EQ	SB	7.544	0.706	-0.4	0.12	16.0	1.0000	-
DS/S4.2.0	FIRST	1	SB	7.470	0.351	-0.7	0.05	7.0	1.0000	-
DS/S4.2.0	FIRST	2	SB	7.537	0.702	-1.6	0.05	7.0	1.0000	-
DS/S4.2.0	FIRST	EQ	SB	7.615	1.094	-2.2	0.12	15.1	0.9855	-
DS/S4.3.0	FIRST	1	SB	7.473	0.367	-0.8	0.05	7.0	1.0000	-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DS/S4.3.0	FIRST	2	SB	7.544	0.739	-1.7	0.05	7.0	1.0000		-
DS/S4.3.0	FIRST	EQ	SB	7.630	1.162	-2.3	0.12	14.8	0.9808		-
DS/S4.4.0	FIRST	1	SB	7.477	0.384	-0.7	0.05	7.0	1.0000		-
DS/S4.4.0	FIRST	2	SB	7.552	0.773	-1.7	0.05	7.0	1.0000		-
DS/S4.4.0	FIRST	EQ	SB	7.641	1.214	-2.3	0.12	14.7	0.9789		-
DS/S5.1.0-1	FIRST	1	PS	7.497	0.339	0.0	0.05	7.0	1.0000		-
DS/S5.1.0-1	FIRST	2	PS	7.598	0.684	0.0	0.05	7.0	1.0000		-
DS/S5.1.0-1	FIRST	EQ	PS	7.712	1.053	0.0	0.12	16.0	1.0000		-
DS/S5.2.0	FIRST	1	SB	7.518	0.405	-0.3	0.05	7.0	1.0000		-
DS/S5.2.0	FIRST	2	SB	7.641	0.818	-0.3	0.05	7.0	1.0000		-
DS/S5.2.0	FIRST	EQ	SB	7.778	1.252	-0.2	0.12	16.0	1.0000		-
DS/S5.3.0	FIRST	1	SB	7.519	0.408	-0.3	0.05	7.0	1.0000		-
DS/S5.3.0	FIRST	2	SB	7.644	0.828	-0.3	0.05	7.0	1.0000		-
DS/S5.3.0	FIRST	EQ	SB	7.786	1.281	-0.2	0.12	16.0	1.0000		-
DS/S5.4.0	FIRST	1	SB	7.519	0.409	-0.3	0.05	7.0	1.0000		-
DS/S5.4.0	FIRST	2	SB	7.645	0.831	-0.3	0.05	7.0	1.0000		-
DS/S5.4.0	FIRST	EQ	SB	7.788	1.285	-0.2	0.12	16.0	1.0000		-
DS/S5.5.0	FIRST	1	SB	7.522	0.417	-0.3	0.05	7.0	1.0000		-
DS/S5.5.0	FIRST	2	SB	7.650	0.847	-0.3	0.05	7.0	1.0000		-
DS/S5.5.0	FIRST	EQ	SB	7.796	1.309	-0.2	0.12	16.0	1.0000		-
DS/S6.1.0-1	FIRST	1	PS	7.450	0.128	0.0	0.05	7.0	1.0000		-
DS/S6.1.0-1	FIRST	2	PS	7.501	0.256	0.0	0.05	7.0	1.0000		-
DS/S6.1.0-1	FIRST	EQ	PS	7.555	0.388	0.0	0.12	16.0	1.0000		-
DS/S6.2.0	FIRST	1	SB	7.565	0.533	-0.4	0.05	7.0	1.0000		-
DS/S6.2.0	FIRST	2	SB	7.743	1.064	-0.4	0.05	7.0	1.0000		-
DS/S6.2.0	FIRST	EQ	SB	7.951	1.635	-0.2	0.12	12.0	0.9302		-
DS/S6.3.0	FIRST	1	SB	7.565	0.533	-0.4	0.05	7.0	1.0000		-
DS/S6.3.0	FIRST	2	SB	7.743	1.064	-0.4	0.05	7.0	1.0000		-
DS/S6.3.0	FIRST	EQ	SB	7.951	1.635	-0.2	0.12	12.0	0.9302		-
DS/S6.4.0	FIRST	1	SB	7.566	0.535	-0.5	0.05	7.0	1.0000		-
DS/S6.4.0	FIRST	2	SB	7.743	1.067	-0.4	0.05	7.0	1.0000		-
DS/S6.4.0	FIRST	EQ	SB	7.953	1.640	-0.2	0.12	11.9	0.9291		-
DS/S6.5.0	FIRST	1	SB	7.566	0.535	-0.5	0.05	7.0	1.0000		-
DS/S6.5.0	FIRST	2	SB	7.743	1.067	-0.4	0.05	7.0	1.0000		-
DS/S6.5.0	FIRST	EQ	SB	7.953	1.640	-0.2	0.12	11.9	0.9291		-
DS/S6.6.0	FIRST	1	SB	7.568	0.540	-0.5	0.05	7.0	1.0000		-
DS/S6.6.0	FIRST	2	SB	7.747	1.076	-0.4	0.05	7.0	1.0000		-
DS/S6.6.0	FIRST	EQ	SB	7.961	1.654	-0.2	0.12	11.8	0.9271		-
DS/S7.1.0-1	FIRST	1	PS	7.450	0.128	0.0	0.05	7.0	1.0000		-
DS/S7.1.0-1	FIRST	2	PS	7.501	0.256	0.0	0.05	7.0	1.0000		-
DS/S7.1.0-1	FIRST	EQ	PS	7.555	0.388	0.0	0.12	16.0	1.0000		-
DS/S7.2.0-1	FIRST	1	PS	7.455	0.136	0.0	0.05	7.0	1.0000		-
DS/S7.2.0-1	FIRST	2	PS	7.513	0.276	0.0	0.05	7.0	1.0000		-
DS/S7.2.0-1	FIRST	EQ	PS	7.579	0.429	0.0	0.12	16.0	1.0000		-
DS/S7.3.0-1	FIRST	1	PS	7.455	0.136	0.0	0.05	7.0	1.0000		-
DS/S7.3.0-1	FIRST	2	PS	7.513	0.276	0.0	0.05	7.0	1.0000		-
DS/S7.3.0-1	FIRST	EQ	PS	7.579	0.429	0.0	0.12	16.0	1.0000		-
DS/S7.4.0-1	FIRST	1	PS	7.455	0.136	0.0	0.05	7.0	1.0000		-
DS/S7.4.0-1	FIRST	2	PS	7.513	0.276	0.0	0.05	7.0	1.0000		-
DS/S7.4.0-1	FIRST	EQ	PS	7.579	0.429	0.0	0.12	16.0	1.0000		-
DS/S7.5.0-1	FIRST	1	PS	7.455	0.136	0.0	0.05	7.0	1.0000		-
DS/S7.5.0-1	FIRST	2	PS	7.513	0.276	0.0	0.05	7.0	1.0000		-
DS/S7.5.0-1	FIRST	EQ	PS	7.579	0.429	0.0	0.12	16.0	1.0000		-
DS/S7.6.0-1	FIRST	1	PS	7.455	0.136	0.0	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FACSOL	CROSSTM s
DS/S7.6.0-1	FIRST	2	PS	7.513	0.276	0.0	0.05	7.0	1.0000	-
DS/S7.6.0-1	FIRST	EQ	PS	7.579	0.429	0.0	0.12	16.0	1.0000	-
DS/S8.1.0-1	FIRST	1	PS	7.450	0.128	0.0	0.05	7.0	1.0000	-
DS/S8.1.0-1	FIRST	2	PS	7.501	0.256	0.0	0.05	7.0	1.0000	-
DS/S8.1.0-1	FIRST	EQ	PS	7.555	0.388	0.0	0.12	16.0	1.0000	-
DS/S8.2.0	FIRST	1	SB	7.592	0.353	-0.5	0.05	7.0	1.0000	-
DS/S8.2.0	FIRST	2	SB	7.795	0.713	-0.4	0.05	7.0	1.0000	-
DS/S8.2.0	FIRST	EQ	SB	8.028	1.110	-0.2	0.12	16.0	1.0000	-
DS/S8.3.0	FIRST	1	SB	7.592	0.353	-0.5	0.05	7.0	1.0000	-
DS/S8.3.0	FIRST	2	SB	7.795	0.713	-0.4	0.05	7.0	1.0000	-
DS/S8.3.0	FIRST	EQ	SB	8.028	1.110	-0.2	0.12	16.0	1.0000	-
DS/S8.4.0	FIRST	1	SB	7.592	0.354	-0.5	0.05	7.0	1.0000	-
DS/S8.4.0	FIRST	2	SB	7.796	0.715	-0.4	0.05	7.0	1.0000	-
DS/S8.4.0	FIRST	EQ	SB	8.030	1.113	-0.2	0.12	16.0	1.0000	-
DS/S8.5.0	FIRST	1	SB	7.592	0.354	-0.5	0.05	7.0	1.0000	-
DS/S8.5.0	FIRST	2	SB	7.796	0.715	-0.4	0.05	7.0	1.0000	-
DS/S8.5.0	FIRST	EQ	SB	8.030	1.113	-0.2	0.12	16.0	1.0000	-
DS/S8.6.0	FIRST	1	SB	7.597	0.361	-0.5	0.05	7.0	1.0000	-
DS/S8.6.0	FIRST	2	SB	7.805	0.729	-0.4	0.05	7.0	1.0000	-
DS/S8.6.0	FIRST	EQ	SB	8.045	1.135	-0.2	0.12	16.0	1.0000	-
DS/S9.1.0-1	FIRST	1	PS	7.511	0.185	0.0	0.05	7.0	1.0000	-
DS/S9.1.0-1	FIRST	2	PS	7.626	0.370	0.0	0.05	7.0	1.0000	-
DS/S9.1.0-1	FIRST	EQ	PS	7.753	0.568	0.0	0.12	16.0	1.0000	-
DS/S9.2.0	FIRST	1	SB	7.542	0.249	-0.3	0.05	7.0	1.0000	-
DS/S9.2.0	FIRST	2	SB	7.690	0.482	-0.3	0.05	7.0	1.0000	-
DS/S9.2.0	FIRST	EQ	SB	7.853	0.729	-0.2	0.12	16.0	1.0000	-
DS/S9.3.0	FIRST	1	SB	7.543	0.250	-0.3	0.05	7.0	1.0000	-
DS/S9.3.0	FIRST	2	SB	7.692	0.486	-0.3	0.05	7.0	1.0000	-
DS/S9.3.0	FIRST	EQ	SB	7.860	0.736	-0.2	0.12	16.0	1.0000	-
DS/S9.4.0	FIRST	1	SB	7.543	0.251	-0.3	0.05	7.0	1.0000	-
DS/S9.4.0	FIRST	2	SB	7.694	0.488	-0.3	0.05	7.0	1.0000	-
DS/S9.4.0	FIRST	EQ	SB	7.861	0.739	-0.2	0.12	16.0	1.0000	-
DS/S9.5.0	FIRST	1	SB	7.543	0.251	-0.3	0.05	7.0	1.0000	-
DS/S9.5.0	FIRST	2	SB	7.694	0.488	-0.3	0.05	7.0	1.0000	-
DS/S9.5.0	FIRST	EQ	SB	7.861	0.739	-0.2	0.12	16.0	1.0000	-
DS/S9.6.0	FIRST	1	SB	7.547	0.259	-0.3	0.05	7.0	1.0000	-
DS/S9.6.0	FIRST	2	SB	7.702	0.501	-0.3	0.05	7.0	1.0000	-
DS/S9.6.0	FIRST	EQ	SB	7.874	0.759	-0.2	0.12	16.0	1.0000	-
DS/S10.1.0-1	FIRST	1	PS	7.482	0.053	0.0	0.05	7.0	1.0000	-
DS/S10.1.0-1	FIRST	2	PS	7.567	0.106	0.0	0.05	7.0	1.0000	-
DS/S10.1.0-1	FIRST	EQ	PS	7.662	0.162	0.0	0.12	16.0	1.0000	-
DS/S10.2.0	FIRST	1	SB	7.511	0.067	-1.1	0.05	7.0	1.0000	-
DS/S10.2.0	FIRST	2	SB	7.624	0.133	-1.8	0.05	7.0	1.0000	-
DS/S10.2.0	FIRST	EQ	SB	7.756	0.205	-1.5	0.12	16.0	1.0000	-
DS/S10.3.0	FIRST	1	SB	7.518	0.071	-1.2	0.05	7.0	1.0000	-
DS/S10.3.0	FIRST	2	SB	7.639	0.138	-2.0	0.05	7.0	1.0000	-
DS/S10.3.0	FIRST	EQ	SB	7.780	0.212	-1.8	0.12	16.0	1.0000	-
DS/S10.4.0	FIRST	1	SB	7.524	0.071	-1.1	0.05	7.0	1.0000	-
DS/S10.4.0	FIRST	2	SB	7.651	0.142	-2.0	0.05	7.0	1.0000	-
DS/S10.4.0	FIRST	EQ	SB	7.798	0.219	-1.8	0.12	16.0	1.0000	-
DS/S11.1.0-1	FIRST	1	PS	7.552	-0.077	0.0	0.05	7.0	1.0000	-
DS/S11.1.0-1	FIRST	2	PS	7.711	-0.158	0.0	0.05	7.0	1.0000	-
DS/S11.1.0-1	FIRST	EQ	PS	7.895	-0.250	0.0	0.12	16.0	1.0000	-
DS/S11.2.0	FIRST	1	SB	7.555	-0.088	-2.7	0.05	7.0	1.0000	-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DS/S11.2.0	FIRST	2	SB	7.727	-0.179	-3.2	0.05	7.0	1.0000		-
DS/S11.2.0	FIRST	EQ	SB	7.944	-0.278	-1.8	0.05	7.0	1.0000		-
DS/S11.2.0	CROSS	1	SB	7.970	-0.285	-0.7	0.05	7.0	1.0000		396
DS/S11.2.0	CROSS	2	SB	7.970	-0.285	-0.7	0.05	7.0	1.0000		396
DS/S11.2.0	CROSS	EQ	SB	7.970	-0.285	-0.7	0.12	16.0	1.0000		396
DS/S11.3.0	FIRST	1	SB	7.564	-0.093	-2.7	0.05	7.0	1.0000		-
DS/S11.3.0	FIRST	2	SB	7.744	-0.188	-3.2	0.05	7.0	1.0000		-
DS/S11.3.0	FIRST	EQ	SB	7.970	-0.292	-1.7	0.05	7.0	1.0000		-
DS/S11.3.0	CROSS	1	SB	7.996	-0.299	-0.7	0.05	7.0	1.0000		395
DS/S11.3.0	CROSS	2	SB	7.996	-0.299	-0.7	0.05	7.0	1.0000		395
DS/S11.3.0	CROSS	EQ	SB	7.996	-0.299	-0.7	0.12	16.0	1.0000		395
DS/S12.1.0-1	FIRST	1	PS	7.501	-0.164	0.0	0.05	7.0	1.0000		-
DS/S12.1.0-1	FIRST	2	PS	7.608	-0.336	0.0	0.05	7.0	1.0000		-
DS/S12.1.0-1	FIRST	EQ	PS	7.735	-0.536	0.0	0.12	16.0	1.0000		-
DS/S12.2.0	FIRST	1	SB	7.549	-0.251	-2.0	0.05	7.0	1.0000		-
DS/S12.2.0	FIRST	2	SB	7.692	-0.514	-3.9	0.05	7.0	1.0000		-
DS/S12.2.0	FIRST	EQ	SB	7.895	-0.808	-3.3	0.12	14.0	0.9664		-
DS/S12.3.0	FIRST	1	SB	7.558	-0.260	-1.8	0.05	7.0	1.0000		-
DS/S12.3.0	FIRST	2	SB	7.710	-0.535	-3.8	0.05	7.0	1.0000		-
DS/S12.3.0	FIRST	EQ	SB	7.920	-0.843	-3.2	0.12	13.9	0.9659		-
DS/S13.1.0-1	FIRST	1	SB	7.419	-0.049	-0.6	0.05	7.0	1.0000		-
DS/S13.1.0-1	FIRST	2	SB	7.438	-0.101	-1.2	0.05	7.0	1.0000		-
DS/S13.1.0-1	FIRST	EQ	SB	7.461	-0.167	-1.9	0.12	16.0	1.0000		-
DS/S13.2.0-1	FIRST	1	SB	7.476	-0.193	-0.7	0.05	7.0	1.0000		-
DS/S13.2.0-1	FIRST	2	SB	7.554	-0.396	-1.4	0.05	7.0	1.0000		-
DS/S13.2.0-1	FIRST	EQ	SB	7.650	-0.638	-1.7	0.12	16.0	1.0000		-
DS/S13.3.0	FIRST	1	SB	7.527	-0.315	-1.0	0.05	7.0	1.0000		-
DS/S13.3.0	FIRST	2	SB	7.654	-0.651	-2.5	0.05	7.0	1.0000		-
DS/S13.3.0	FIRST	EQ	SB	7.806	-1.047	-3.4	0.12	14.0	0.9664		-
DS/S14.1.0	FIRST	1	SB	7.508	-0.343	-0.5	0.05	7.0	1.0000		-
DS/S14.1.0	FIRST	2	SB	7.621	-0.709	-1.2	0.05	7.0	1.0000		-
DS/S14.1.0	FIRST	EQ	SB	7.763	-1.170	-2.0	0.05	7.0	1.0000		-
DS/S14.1.0	CROSS	1	SB	7.807	-1.287	-1.1	0.05	7.0	1.0000		1314
DS/S14.1.0	CROSS	2	PS	7.848	-1.406	0.0	0.05	7.0	1.0000		1314
DS/S14.1.0	CROSS	EQ	PS	7.848	-1.406	0.0	0.12	16.0	1.0000		1314
DS/S14.2.0	FIRST	1	SB	7.530	-0.412	-0.4	0.05	7.0	1.0000		-
DS/S14.2.0	FIRST	2	SB	7.667	-0.849	-1.1	0.05	7.0	1.0000		-
DS/S14.2.0	FIRST	EQ	SB	7.836	-1.397	-1.9	0.05	7.0	1.0000		-
DS/S14.2.0	CROSS	1	SB	7.880	-1.515	-1.0	0.05	7.0	1.0000		1301
DS/S14.2.0	CROSS	2	PS	7.919	-1.630	0.0	0.05	7.0	1.0000		1301
DS/S14.2.0	CROSS	EQ	PS	7.919	-1.630	0.0	0.12	16.0	1.0000		1301
DS/S15.1.0	FIRST	1	PS	7.532	-0.517	0.0	0.05	7.0	1.0000		-
DS/S15.1.0	FIRST	2	PS	7.677	-1.083	0.0	0.05	7.0	1.0000		-
DS/S15.1.0	FIRST	EQ	PS	7.881	-1.884	0.0	0.12	15.9	0.9987		-
DS/S15.2.0	FIRST	1	PS	7.555	-0.606	0.0	0.05	7.0	1.0000		-
DS/S15.2.0	FIRST	2	PS	7.725	-1.268	0.0	0.05	7.0	1.0000		-
DS/S15.2.0	FIRST	EQ	PS	7.962	-2.201	0.0	0.12	15.4	0.9903		-
DS/S16.1.0-1	FIRST	1	PS	7.491	-0.419	0.0	0.05	7.0	1.0000		-
DS/S16.1.0-1	FIRST	2	PS	7.590	-0.881	0.0	0.05	7.0	1.0000		-
DS/S16.1.0-1	FIRST	EQ	PS	7.727	-1.528	0.0	0.12	16.0	1.0000		-
DS/S16.2.0-1	FIRST	1	PS	7.491	-0.419	0.0	0.05	7.0	1.0000		-
DS/S16.2.0-1	FIRST	2	PS	7.590	-0.881	0.0	0.05	7.0	1.0000		-
DS/S16.2.0-1	FIRST	EQ	PS	7.727	-1.528	0.0	0.12	16.0	1.0000		-
DS/S17.1.0-1	FIRST	1	PS	7.437	-0.194	0.0	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FACSOL	CROSSTM s
DS/S17.1.0-1	FIRST	2	PS	7.477	-0.402	0.0	0.05	7.0	1.0000	-
DS/S17.1.0-1	FIRST	EQ	PS	7.526	-0.662	0.0	0.12	16.0	1.0000	-
DS/S18.1.0-1	FIRST	1	PS	7.423	-0.131	0.0	0.05	7.0	1.0000	-
DS/S18.1.0-1	FIRST	2	PS	7.445	-0.265	0.0	0.05	7.0	1.0000	-
DS/S18.1.0-1	FIRST	EQ	PS	7.469	-0.403	0.0	0.12	16.0	1.0000	-
DS/S1-2.1.0-1	FIRST	1	PS	7.427	0.244	0.0	0.05	7.0	1.0000	-
DS/S1-2.1.0-1	FIRST	2	PS	7.459	0.534	0.0	0.05	7.0	1.0000	-
DS/S1-2.1.0-1	FIRST	EQ	PS	7.507	0.999	0.0	0.12	16.0	1.0000	-
DS/S1-2.2.0-1	FIRST	1	PS	7.427	0.244	0.0	0.05	7.0	1.0000	-
DS/S1-2.2.0-1	FIRST	2	PS	7.459	0.534	0.0	0.05	7.0	1.0000	-
DS/S1-2.2.0-1	FIRST	EQ	PS	7.507	0.999	0.0	0.12	16.0	1.0000	-
DS/S2-3.1.0-1	FIRST	1	SB	7.462	0.505	-0.6	0.05	7.0	1.0000	-
DS/S2-3.1.0-1	FIRST	2	SB	7.532	1.108	-2.0	0.05	7.0	1.0000	-
DS/S2-3.1.0-1	FIRST	EQ	SB	7.651	2.103	-3.0	0.05	7.0	1.0000	-
DS/S2-3.1.0-1	INT1	1	SB	7.651	2.103	-3.0	0.05	7.0	1.0000	-
DS/S2-3.1.0-1	INT1	2	SB	7.651	2.103	-3.0	0.05	7.0	1.0000	-
DS/S2-3.1.0-1	INT1	EQ	SB	7.651	2.103	-3.0	0.05	7.0	1.0000	-
DS/S2-3.1.0-1	INT2	1	SB	7.651	2.103	-3.0	0.05	7.0	1.0000	-
DS/S2-3.1.0-1	INT2	2	SB	7.651	2.103	-3.0	0.05	7.0	1.0000	-
DS/S2-3.1.0-1	INT2	EQ	SB	7.651	2.103	-3.0	0.12	12.6	0.9418	-
DS/S2-3.2.0	FIRST	1	SB	7.467	0.537	-0.6	0.05	7.0	1.0000	-
DS/S2-3.2.0	FIRST	2	SB	7.543	1.178	-2.0	0.05	7.0	1.0000	-
DS/S2-3.2.0	FIRST	EQ	SB	7.670	2.238	-2.9	0.05	7.0	1.0000	-
DS/S2-3.2.0	INT1	1	SB	7.670	2.238	-2.9	0.05	7.0	1.0000	-
DS/S2-3.2.0	INT1	2	SB	7.670	2.238	-2.9	0.05	7.0	1.0000	-
DS/S2-3.2.0	INT1	EQ	SB	7.670	2.238	-2.9	0.05	7.0	1.0000	-
DS/S2-3.2.0	INT2	1	SB	7.670	2.238	-2.9	0.05	7.0	1.0000	-
DS/S2-3.2.0	INT2	2	SB	7.670	2.238	-2.9	0.05	7.0	1.0000	-
DS/S2-3.2.0	INT2	EQ	SB	7.670	2.238	-2.9	0.12	12.4	0.9387	-
DS/S2-3.3.0	FIRST	1	SB	7.482	0.635	-0.8	0.05	7.0	1.0000	-
DS/S2-3.3.0	FIRST	2	SB	7.570	1.395	-2.6	0.05	7.0	1.0000	-
DS/S2-3.3.0	FIRST	EQ	SB	7.718	2.649	-3.8	0.05	7.0	1.0000	-
DS/S2-3.3.0	INT2	1	SB	7.718	2.645	-3.8	0.05	7.0	1.0000	-
DS/S2-3.3.0	INT2	2	SB	7.718	2.645	-3.8	0.05	7.0	1.0000	-
DS/S2-3.3.0	INT2	EQ	SB	7.718	2.649	-3.8	0.12	10.8	0.9072	-
DS/S3-4.1.0	FIRST	1	SB	7.483	0.470	-1.2	0.05	7.0	1.0000	-
DS/S3-4.1.0	FIRST	2	SB	7.560	0.998	-3.1	0.05	7.0	1.0000	-
DS/S3-4.1.0	FIRST	EQ	SB	7.680	1.705	-3.0	0.05	7.0	1.0000	-
DS/S3-4.1.0	INT1	1	SB	7.680	1.705	-3.0	0.05	7.0	1.0000	-
DS/S3-4.1.0	INT1	2	SB	7.680	1.705	-3.0	0.05	7.0	1.0000	-
DS/S3-4.1.0	INT1	EQ	SB	7.680	1.705	-3.0	0.05	7.0	1.0000	-
DS/S3-4.1.0	INT2	1	SB	7.680	1.705	-3.0	0.05	7.0	1.0000	-
DS/S3-4.1.0	INT2	2	SB	7.680	1.705	-3.0	0.05	7.0	1.0000	-
DS/S3-4.1.0	INT2	EQ	SB	7.680	1.705	-3.0	0.12	12.6	0.9419	-
DS/S3-4.2.0	FIRST	1	SB	7.488	0.513	-1.2	0.05	7.0	1.0000	-
DS/S3-4.2.0	FIRST	2	SB	7.571	1.071	-3.1	0.05	7.0	1.0000	-
DS/S3-4.2.0	FIRST	EQ	SB	7.697	1.812	-2.9	0.05	7.0	1.0000	-
DS/S3-4.2.0	INT1	1	SB	7.697	1.812	-2.9	0.05	7.0	1.0000	-
DS/S3-4.2.0	INT1	2	SB	7.697	1.812	-2.9	0.05	7.0	1.0000	-
DS/S3-4.2.0	INT1	EQ	SB	7.697	1.812	-2.9	0.05	7.0	1.0000	-
DS/S3-4.2.0	INT2	1	SB	7.697	1.812	-2.9	0.05	7.0	1.0000	-
DS/S3-4.2.0	INT2	2	SB	7.697	1.812	-2.9	0.05	7.0	1.0000	-
DS/S3-4.2.0	INT2	EQ	SB	7.697	1.812	-2.9	0.12	12.4	0.9376	-
DS/S3-4.3.0	FIRST	1	SB	7.507	0.628	-1.9	0.05	7.0	1.0000	-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DS/S3-4.3.0	FIRST	2	SB	7.597	1.307	-4.7	0.05	7.0	1.0000		-
DS/S3-4.3.0	FIRST	EQ	SB	7.759	2.286	-5.2	0.05	7.0	1.0000		-
DS/S3-4.3.0	INT1	1	SB	7.759	2.286	-5.2	0.05	7.0	1.0000		-
DS/S3-4.3.0	INT1	2	SB	7.759	2.286	-5.2	0.05	7.0	1.0000		-
DS/S3-4.3.0	INT1	EQ	SB	7.759	2.286	-5.2	0.05	7.0	1.0000		-
DS/S3-4.3.0	INT2	1	SB	7.759	2.284	-5.1	0.05	7.0	1.0000		-
DS/S3-4.3.0	INT2	2	SB	7.759	2.284	-5.1	0.05	7.0	1.0000		-
DS/S3-4.3.0	INT2	EQ	SB	7.759	2.286	-5.2	0.12	9.0	0.8652		-
DS/S4-5.1.0	FIRST	1	SB	7.563	0.611	-0.2	0.05	7.0	1.0000		-
DS/S4-5.1.0	FIRST	2	SB	7.731	1.241	-1.0	0.05	7.0	1.0000		-
DS/S4-5.1.0	FIRST	EQ	SB	7.929	1.931	-0.9	0.12	14.0	0.9676		-
DS/S4-5.2.0	FIRST	1	SB	7.586	0.723	-1.2	0.05	7.0	1.0000		-
DS/S4-5.2.0	FIRST	2	SB	7.765	1.483	-3.4	0.05	7.0	1.0000		-
DS/S4-5.2.0	FIRST	EQ	SB	8.014	2.384	-3.1	0.12	10.8	0.9064		-
DS/S4-5.3.0	FIRST	1	SB	7.587	0.727	-1.2	0.05	7.0	1.0000		-
DS/S4-5.3.0	FIRST	2	SB	7.769	1.497	-3.4	0.05	7.0	1.0000		-
DS/S4-5.3.0	FIRST	EQ	SB	8.026	2.428	-3.1	0.12	10.7	0.9037		-
DS/S4-5.4.0	FIRST	1	SB	7.589	0.745	-1.3	0.05	7.0	1.0000		-
DS/S4-5.4.0	FIRST	2	SB	7.775	1.536	-3.6	0.05	7.0	1.0000		-
DS/S4-5.4.0	FIRST	EQ	SB	8.048	2.526	-3.2	0.12	10.3	0.8956		-
DS/S4-5.5.0	FIRST	1	SB	7.589	0.745	-1.4	0.05	7.0	1.0000		-
DS/S4-5.5.0	FIRST	2	SB	7.776	1.539	-3.6	0.05	7.0	1.0000		-
DS/S4-5.5.0	FIRST	EQ	SB	8.049	2.531	-3.3	0.12	10.3	0.8948		-
DS/S4-5.6.0	FIRST	1	SB	7.592	0.751	-1.3	0.05	7.0	1.0000		-
DS/S4-5.6.0	FIRST	2	SB	7.782	1.553	-3.6	0.05	7.0	1.0000		-
DS/S4-5.6.0	FIRST	EQ	SB	8.058	2.556	-3.3	0.12	10.2	0.8935		-
DS/S4-5.7.0	FIRST	1	SB	7.596	0.772	-1.2	0.05	7.0	1.0000		-
DS/S4-5.7.0	FIRST	2	SB	7.789	1.588	-3.5	0.05	7.0	1.0000		-
DS/S4-5.7.0	FIRST	EQ	SB	8.070	2.608	-3.2	0.12	10.1	0.8911		-
DS/S5-6.1.0	FIRST	1	PS	7.565	0.529	0.0	0.05	7.0	1.0000		-
DS/S5-6.1.0	FIRST	2	PS	7.740	1.055	0.0	0.05	7.0	1.0000		-
DS/S5-6.1.0	FIRST	EQ	SB	7.947	1.622	-0.0	0.12	15.8	0.9970		-
DS/S5-6.2.0	FIRST	1	SB	7.566	0.538	-0.4	0.05	7.0	1.0000		-
DS/S5-6.2.0	FIRST	2	SB	7.744	1.070	-0.4	0.05	7.0	1.0000		-
DS/S5-6.2.0	FIRST	EQ	SB	7.954	1.644	-0.2	0.12	15.6	0.9932		-
DS/S5-6.3.0	FIRST	1	SB	7.567	0.541	-0.4	0.05	7.0	1.0000		-
DS/S5-6.3.0	FIRST	2	SB	7.748	1.080	-0.4	0.05	7.0	1.0000		-
DS/S5-6.3.0	FIRST	EQ	SB	7.967	1.679	-0.2	0.12	15.5	0.9921		-
DS/S5-6.4.0	FIRST	1	SB	7.567	0.542	-0.5	0.05	7.0	1.0000		-
DS/S5-6.4.0	FIRST	2	SB	7.748	1.083	-0.4	0.05	7.0	1.0000		-
DS/S5-6.4.0	FIRST	EQ	SB	7.966	1.684	-0.2	0.12	15.5	0.9914		-
DS/S5-6.5.0	FIRST	1	SB	7.570	0.553	-0.5	0.05	7.0	1.0000		-
DS/S5-6.5.0	FIRST	2	SB	7.755	1.103	-0.4	0.05	7.0	1.0000		-
DS/S5-6.5.0	FIRST	EQ	SB	7.976	1.714	-0.2	0.12	15.4	0.9902		-
DS/S6-7.1.0-1	FIRST	1	PS	7.450	0.128	0.0	0.05	7.0	1.0000		-
DS/S6-7.1.0-1	FIRST	2	PS	7.501	0.256	0.0	0.05	7.0	1.0000		-
DS/S6-7.1.0-1	FIRST	EQ	PS	7.555	0.388	0.0	0.12	16.0	1.0000		-
DS/S6-7.2.0	FIRST	1	SB	7.604	0.524	-0.7	0.05	7.0	1.0000		-
DS/S6-7.2.0	FIRST	2	SB	7.821	1.152	-0.8	0.05	7.0	1.0000		-
DS/S6-7.2.0	FIRST	EQ	SB	8.102	1.865	-0.3	0.12	9.8	0.8855		-
DS/S6-7.3.0	FIRST	1	SB	7.604	0.524	-0.7	0.05	7.0	1.0000		-
DS/S6-7.3.0	FIRST	2	SB	7.821	1.152	-0.8	0.05	7.0	1.0000		-
DS/S6-7.3.0	FIRST	EQ	SB	8.102	1.865	-0.3	0.12	9.8	0.8855		-
DS/S6-7.4.0	FIRST	1	SB	7.604	0.526	-0.8	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DS/S6-7.4.0	FIRST	2	SB	7.822	1.155	-0.9	0.05	7.0	1.0000		-
DS/S6-7.4.0	FIRST	EQ	SB	8.104	1.869	-0.3	0.12	9.8	0.8840		-
DS/S6-7.5.0	FIRST	1	SB	7.606	0.530	-0.7	0.05	7.0	1.0000		-
DS/S6-7.5.0	FIRST	2	SB	7.826	1.164	-0.9	0.05	7.0	1.0000		-
DS/S6-7.5.0	FIRST	EQ	SB	8.110	1.885	-0.3	0.12	9.7	0.8819		-
DS/S7-8.1.0-1	FIRST	1	PS	7.450	0.128	0.0	0.05	7.0	1.0000		-
DS/S7-8.1.0-1	FIRST	2	PS	7.501	0.256	0.0	0.05	7.0	1.0000		-
DS/S7-8.1.0-1	FIRST	EQ	PS	7.555	0.388	0.0	0.12	16.0	1.0000		-
DS/S7-8.2.0	FIRST	1	SB	7.592	0.353	-0.5	0.05	7.0	1.0000		-
DS/S7-8.2.0	FIRST	2	SB	7.795	0.713	-0.4	0.05	7.0	1.0000		-
DS/S7-8.2.0	FIRST	EQ	SB	8.028	1.110	-0.2	0.12	16.0	1.0000		-
DS/S7-8.3.0	FIRST	1	SB	7.592	0.353	-0.5	0.05	7.0	1.0000		-
DS/S7-8.3.0	FIRST	2	SB	7.795	0.713	-0.4	0.05	7.0	1.0000		-
DS/S7-8.3.0	FIRST	EQ	SB	8.028	1.110	-0.2	0.12	16.0	1.0000		-
DS/S7-8.4.0	FIRST	1	SB	7.592	0.354	-0.5	0.05	7.0	1.0000		-
DS/S7-8.4.0	FIRST	2	SB	7.796	0.715	-0.4	0.05	7.0	1.0000		-
DS/S7-8.4.0	FIRST	EQ	SB	8.030	1.113	-0.2	0.12	16.0	1.0000		-
DS/S7-8.5.0	FIRST	1	SB	7.592	0.354	-0.5	0.05	7.0	1.0000		-
DS/S7-8.5.0	FIRST	2	SB	7.796	0.715	-0.4	0.05	7.0	1.0000		-
DS/S7-8.5.0	FIRST	EQ	SB	8.030	1.113	-0.2	0.12	16.0	1.0000		-
DS/S7-8.6.0	FIRST	1	SB	7.597	0.361	-0.5	0.05	7.0	1.0000		-
DS/S7-8.6.0	FIRST	2	SB	7.805	0.729	-0.4	0.05	7.0	1.0000		-
DS/S7-8.6.0	FIRST	EQ	SB	8.045	1.135	-0.2	0.12	16.0	1.0000		-
DS/S8-9.1.0-1	FIRST	1	PS	7.560	0.306	0.0	0.05	7.0	1.0000		-
DS/S8-9.1.0-1	FIRST	2	PS	7.731	0.612	0.0	0.05	7.0	1.0000		-
DS/S8-9.1.0-1	FIRST	EQ	PS	7.927	0.956	0.0	0.12	16.0	1.0000		-
DS/S8-9.2.0	FIRST	1	SB	7.592	0.353	-0.5	0.05	7.0	1.0000		-
DS/S8-9.2.0	FIRST	2	SB	7.795	0.713	-0.4	0.05	7.0	1.0000		-
DS/S8-9.2.0	FIRST	EQ	SB	8.028	1.110	-0.2	0.12	16.0	1.0000		-
DS/S8-9.3.0	FIRST	1	SB	7.593	0.355	-0.5	0.05	7.0	1.0000		-
DS/S8-9.3.0	FIRST	2	SB	7.798	0.718	-0.4	0.05	7.0	1.0000		-
DS/S8-9.3.0	FIRST	EQ	SB	8.037	1.119	-0.2	0.12	16.0	1.0000		-
DS/S8-9.4.0	FIRST	1	SB	7.593	0.356	-0.5	0.05	7.0	1.0000		-
DS/S8-9.4.0	FIRST	2	SB	7.799	0.720	-0.4	0.05	7.0	1.0000		-
DS/S8-9.4.0	FIRST	EQ	SB	8.039	1.122	-0.2	0.12	16.0	1.0000		-
DS/S8-9.5.0	FIRST	1	SB	7.593	0.356	-0.5	0.05	7.0	1.0000		-
DS/S8-9.5.0	FIRST	2	SB	7.799	0.720	-0.4	0.05	7.0	1.0000		-
DS/S8-9.5.0	FIRST	EQ	SB	8.039	1.122	-0.2	0.12	16.0	1.0000		-
DS/S8-9.6.0	FIRST	1	SB	7.598	0.362	-0.5	0.05	7.0	1.0000		-
DS/S8-9.6.0	FIRST	2	SB	7.808	0.734	-0.4	0.05	7.0	1.0000		-
DS/S8-9.6.0	FIRST	EQ	SB	8.053	1.144	-0.2	0.12	16.0	1.0000		-
DS/S9-10.1.0	FIRST	1	PS	7.635	0.308	0.7	0.05	7.0	1.0000		-
DS/S9-10.1.0	FIRST	2	PS	7.893	0.587	0.0	0.05	7.0	1.0000		-
DS/S9-10.1.0	FIRST	EQ	PS	8.212	0.894	0.0	0.12	15.8	0.9971		-
DS/S9-10.2.0	FIRST	1	SB	7.645	0.310	-2.1	0.05	7.0	1.0000		-
DS/S9-10.2.0	FIRST	2	SB	7.901	0.590	-3.9	0.05	7.0	1.0000		-
DS/S9-10.2.0	FIRST	EQ	SB	8.259	0.917	-1.7	0.12	14.0	0.9672		-
DS/S9-10.3.0	FIRST	1	SB	7.646	0.311	-2.1	0.05	7.0	1.0000		-
DS/S9-10.3.0	FIRST	2	SB	7.904	0.594	-3.9	0.05	7.0	1.0000		-
DS/S9-10.3.0	FIRST	EQ	SB	8.269	0.928	-1.7	0.12	14.0	0.9663		-
DS/S9-10.4.0	FIRST	1	SB	7.654	0.316	-2.2	0.05	7.0	1.0000		-
DS/S9-10.4.0	FIRST	2	SB	7.917	0.597	-4.1	0.05	7.0	1.0000		-
DS/S9-10.4.0	FIRST	EQ	SB	8.294	0.935	-2.0	0.12	13.5	0.9589		-
DS/S9-10.5.0	FIRST	1	SB	7.654	0.317	-2.2	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DS/S9-10.5.0	FIRST	2	SB	7.918	0.600	-4.1	0.05	7.0	1.0000		-
DS/S9-10.5.0	FIRST	EQ	SB	8.296	0.938	-2.0	0.12	13.5	0.9582		-
DS/S9-10.6.0	FIRST	1	SB	7.660	0.312	-2.1	0.05	7.0	1.0000		-
DS/S9-10.6.0	FIRST	2	SB	7.930	0.600	-4.1	0.05	7.0	1.0000		-
DS/S9-10.6.0	FIRST	EQ	SB	8.315	0.943	-2.0	0.12	13.4	0.9575		-
DS/S9-10.7.0	FIRST	1	SB	7.664	0.323	-2.1	0.05	7.0	1.0000		-
DS/S9-10.7.0	FIRST	2	SB	7.939	0.615	-4.0	0.05	7.0	1.0000		-
DS/S9-10.7.0	FIRST	EQ	SB	8.328	0.962	-2.0	0.12	13.4	0.9568		-
DS/S10-11.1..	FIRST	1	PS	7.626	-0.028	1.9	0.05	7.0	1.0000		-
DS/S10-11.1..	FIRST	2	PS	7.853	-0.068	4.2	0.05	7.0	1.0000		-
DS/S10-11.1..	FIRST	EQ	PS	8.213	-0.100	0.0	0.12	16.0	1.0000		-
DS/S10-11.2.0	FIRST	1	SB	7.616	-0.023	-5.9	0.05	7.0	1.0000		-
DS/S10-11.2.0	FIRST	2	SB	7.855	-0.068	-8.4	0.05	7.0	1.0000		-
DS/S10-11.2.0	FIRST	EQ	SB	8.345	-0.094	-4.0	0.05	7.0	1.0000		-
DS/S10-11.2.0	CROSS	1	SB	8.384	-0.101	-2.7	0.05	7.0	1.0000		398
DS/S10-11.2.0	CROSS	2	SB	8.384	-0.101	-2.7	0.05	7.0	1.0000		398
DS/S10-11.2.0	CROSS	EQ	SB	8.384	-0.101	-2.7	0.12	13.1	0.9515		398
DS/S10-11.3.0	FIRST	1	SB	7.622	-0.022	-6.0	0.05	7.0	1.0000		-
DS/S10-11.3.0	FIRST	2	SB	7.865	-0.064	-8.6	0.05	7.0	1.0000		-
DS/S10-11.3.0	FIRST	EQ	SB	8.367	-0.088	-4.4	0.05	7.0	1.0000		-
DS/S10-11.3.0	CROSS	1	SB	8.408	-0.095	-3.1	0.05	7.0	1.0000		400
DS/S10-11.3.0	CROSS	2	SB	8.408	-0.095	-3.1	0.05	7.0	1.0000		400
DS/S10-11.3.0	CROSS	EQ	SB	8.408	-0.095	-3.1	0.12	12.6	0.9429		400
DS/S10-11.4.0	FIRST	1	SB	7.645	-0.024	-5.5	0.05	7.0	1.0000		-
DS/S10-11.4.0	FIRST	2	SB	7.899	-0.068	-8.4	0.05	7.0	1.0000		-
DS/S10-11.4.0	FIRST	EQ	SB	8.416	-0.096	-4.2	0.05	7.0	1.0000		-
DS/S10-11.4.0	CROSS	1	SB	8.455	-0.104	-2.9	0.05	7.0	1.0000		397
DS/S10-11.4.0	CROSS	2	SB	8.455	-0.104	-2.9	0.05	7.0	1.0000		397
DS/S10-11.4.0	CROSS	EQ	SB	8.455	-0.104	-2.9	0.12	12.6	0.9425		397
DS/S11-12.1.0	FIRST	1	SB	7.634	-0.281	-4.4	0.05	7.0	1.0000		-
DS/S11-12.1.0	FIRST	2	SB	7.856	-0.578	-7.7	0.05	7.0	1.0000		-
DS/S11-12.1.0	FIRST	EQ	SB	8.364	-0.923	-1.6	0.05	7.0	1.0000		-
DS/S11-12.1.0	CROSS	1	PS	8.393	-0.933	0.0	0.05	7.0	1.0000		381
DS/S11-12.1.0	CROSS	2	PS	8.393	-0.933	0.0	0.05	7.0	1.0000		381
DS/S11-12.1.0	CROSS	EQ	PS	8.393	-0.933	0.0	0.12	15.6	0.9931		381
DS/S11-12.2.0	FIRST	1	SB	7.635	-0.366	-6.9	0.05	7.0	1.0000		-
DS/S11-12.2.0	FIRST	2	SB	7.859	-0.743	-10.8	0.05	5.9	0.9574		-
DS/S11-12.2.0	FIRST	EQ	SB	8.475	-1.151	-6.5	0.05	7.0	1.0000		-
DS/S11-12.2.0	CROSS	1	SB	8.532	-1.157	-5.1	0.05	7.0	1.0000		412
DS/S11-12.2.0	CROSS	2	SB	8.532	-1.157	-5.1	0.05	7.0	1.0000		412
DS/S11-12.2.0	CROSS	EQ	SB	8.532	-1.157	-5.1	0.12	9.7	0.8829		412
DS/S11-12.3.0	FIRST	1	SB	7.667	-0.375	-6.2	0.05	7.0	1.0000		-
DS/S11-12.3.0	FIRST	2	SB	7.898	-0.771	-10.6	0.05	5.9	0.9593		-
DS/S11-12.3.0	FIRST	EQ	SB	8.538	-1.198	-6.2	0.05	7.0	1.0000		-
DS/S11-12.3.0	CROSS	1	SB	8.592	-1.205	-4.8	0.05	7.0	1.0000		407
DS/S11-12.3.0	CROSS	2	SB	8.592	-1.205	-4.8	0.05	7.0	1.0000		407
DS/S11-12.3.0	CROSS	EQ	SB	8.592	-1.205	-4.8	0.12	9.8	0.8845		407
DS/S12-13.1..	FIRST	1	SB	7.516	-0.214	-1.7	0.05	7.0	1.0000		-
DS/S12-13.1..	FIRST	2	SB	7.627	-0.460	-3.9	0.05	7.0	1.0000		-
DS/S12-13.1..	FIRST	EQ	SB	7.820	-0.805	-3.9	0.12	13.7	0.9612		-
DS/S12-13.2..	FIRST	1	SB	7.570	-0.360	-2.0	0.05	7.0	1.0000		-
DS/S12-13.2..	FIRST	2	SB	7.732	-0.758	-4.7	0.05	7.0	1.0000		-
DS/S12-13.2..	FIRST	EQ	SB	8.036	-1.285	-3.1	0.12	13.8	0.9630		-
DS/S12-13.3..	FIRST	1	SB	7.609	-0.484	-4.1	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DS/S12-13.3..	FIRST	2	SB	7.768	-1.021	-8.6	0.05	7.0	1.0000		-
DS/S12-13.3..	FIRST	EQ	SB	8.135	-1.717	-8.8	0.12	7.3	0.7222		-
DS/S12-13.4..	FIRST	1	SB	7.609	-0.484	-4.1	0.05	7.0	1.0000		-
DS/S12-13.4..	FIRST	2	SB	7.768	-1.021	-8.6	0.05	7.0	1.0000		-
DS/S12-13.4..	FIRST	EQ	SB	8.135	-1.717	-8.8	0.12	7.3	0.7222		-
DS/S13-14.1..	FIRST	1	SB	7.527	-0.400	-1.0	0.05	7.0	1.0000		-
DS/S13-14.1..	FIRST	2	SB	7.662	-0.852	-2.6	0.05	7.0	1.0000		-
DS/S13-14.1..	FIRST	EQ	SB	7.828	-1.509	-6.2	0.05	7.0	1.0000		-
DS/S13-14.1..	CROSS	1	SB	7.896	-1.625	-4.9	0.05	7.0	1.0000		1365
DS/S13-14.1..	CROSS	2	SB	7.967	-1.743	-2.9	0.05	7.0	1.0000		1365
DS/S13-14.1..	CROSS	EQ	SB	7.967	-1.743	-2.9	0.12	12.6	0.9429		1365
DS/S13-14.2.0	FIRST	1	SB	7.606	-0.593	-1.1	0.05	7.0	1.0000		-
DS/S13-14.2.0	FIRST	2	SB	7.816	-1.283	-3.8	0.05	7.0	1.0000		-
DS/S13-14.2.0	FIRST	EQ	SB	8.140	-2.216	-5.2	0.05	7.0	1.0000		-
DS/S13-14.2.0	CROSS	1	SB	8.212	-2.350	-3.7	0.05	7.0	1.0000		1294
DS/S13-14.2.0	CROSS	2	SB	8.267	-2.458	-2.2	0.05	7.0	1.0000		1294
DS/S13-14.2.0	CROSS	EQ	SB	8.267	-2.458	-2.2	0.12	11.9	0.9288		1294
DS/S13-14.3..	FIRST	1	SB	7.601	-0.629	-2.6	0.05	7.0	1.0000		-
DS/S13-14.3..	FIRST	2	SB	7.795	-1.306	-5.5	0.05	7.0	1.0000		-
DS/S13-14.3..	FIRST	EQ	SB	8.095	-2.260	-7.7	0.05	6.8	0.9942		-
DS/S13-14.3..	CROSS	1	SB	8.173	-2.386	-6.4	0.05	7.0	1.0000		1356
DS/S13-14.3..	CROSS	2	SB	8.241	-2.490	-5.0	0.05	7.0	1.0000		1356
DS/S13-14.3..	CROSS	EQ	SB	8.241	-2.490	-5.0	0.12	9.1	0.8674		1356
DS/S13-14.4..	FIRST	1	SB	7.626	-0.707	-2.1	0.05	7.0	1.0000		-
DS/S13-14.4..	FIRST	2	SB	7.848	-1.462	-5.1	0.05	7.0	1.0000		-
DS/S13-14.4..	FIRST	EQ	SB	8.182	-2.487	-7.3	0.05	6.7	0.9905		-
DS/S13-14.4..	CROSS	1	SB	8.261	-2.617	-6.1	0.05	7.0	1.0000		1332
DS/S13-14.4..	CROSS	2	SB	8.325	-2.719	-4.7	0.05	7.0	1.0000		1332
DS/S13-14.4..	CROSS	EQ	SB	8.325	-2.719	-4.7	0.12	8.9	0.8645		1332
DS/S14-15.1.0	FIRST	1	SB	7.638	-0.854	-0.8	0.05	7.0	1.0000		-
DS/S14-15.1.0	FIRST	2	SB	7.907	-1.841	-2.0	0.05	7.0	1.0000		-
DS/S14-15.1.0	FIRST	EQ	SB	8.389	-3.589	-3.0	0.05	7.0	1.0000		-
DS/S14-15.1.0	CROSS	1	SB	8.454	-3.753	-1.3	0.05	7.0	1.0000		1205
DS/S14-15.1.0	CROSS	2	PS	8.494	-3.865	0.0	0.05	7.0	1.0000		1205
DS/S14-15.1.0	CROSS	EQ	PS	8.494	-3.865	0.0	0.12	16.0	1.0000		1205
DS/S14-15.2.0	FIRST	1	SB	7.661	-0.945	-0.6	0.05	7.0	1.0000		-
DS/S14-15.2.0	FIRST	2	SB	7.957	-2.029	-1.8	0.05	7.0	1.0000		-
DS/S14-15.2.0	FIRST	EQ	SB	8.481	-3.928	-2.8	0.05	7.0	1.0000		-
DS/S14-15.2.0	CROSS	1	SB	8.546	-4.094	-1.2	0.05	7.0	1.0000		1191
DS/S14-15.2.0	CROSS	2	PS	8.583	-4.202	0.0	0.05	7.0	1.0000		1191
DS/S14-15.2.0	CROSS	EQ	PS	8.583	-4.202	0.0	0.12	16.0	1.0000		1191
DS/S15-16.1.0	FIRST	1	PS	7.628	-0.945	0.0	0.05	7.0	1.0000		-
DS/S15-16.1.0	FIRST	2	PS	7.897	-2.086	0.0	0.05	7.0	1.0000		-
DS/S15-16.1.0	FIRST	EQ	PS	8.443	-4.498	0.0	0.12	11.7	0.9249		-
DS/S15-16.2.0	FIRST	1	PS	7.628	-0.945	0.0	0.05	7.0	1.0000		-
DS/S15-16.2.0	FIRST	2	PS	7.897	-2.086	0.0	0.05	7.0	1.0000		-
DS/S15-16.2.0	FIRST	EQ	PS	8.443	-4.498	0.0	0.12	11.7	0.9249		-
DS/S16-17.1..	FIRST	1	PS	7.538	-0.670	0.0	0.05	7.0	1.0000		-
DS/S16-17.1..	FIRST	2	PS	7.697	-1.450	0.0	0.05	7.0	1.0000		-
DS/S16-17.1..	FIRST	EQ	PS	7.978	-2.873	0.0	0.12	16.0	1.0000		-
DS/S16-17.2..	FIRST	1	PS	7.538	-0.670	0.0	0.05	7.0	1.0000		-
DS/S16-17.2..	FIRST	2	PS	7.697	-1.450	0.0	0.05	7.0	1.0000		-
DS/S16-17.2..	FIRST	EQ	PS	7.978	-2.873	0.0	0.12	16.0	1.0000		-
DS/S17-18.1..	FIRST	1	PS	7.460	-0.339	0.0	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FACSOL	CROSSTM s
DS/S17-18.1..	FIRST	2	PS	7.525	-0.690	0.0	0.05	7.0	1.0000	-
DS/S17-18.1..	FIRST	EQ	PS	7.607	-1.138	0.0	0.12	16.0	1.0000	-
DS/S1-3.1.0-1	FIRST	1	SB	7.463	0.513	-0.6	0.05	7.0	1.0000	-
DS/S1-3.1.0-1	FIRST	2	SB	7.537	1.142	-2.0	0.05	7.0	1.0000	-
DS/S1-3.1.0-1	FIRST	EQ	SB	7.687	2.585	-3.8	0.05	7.0	1.0000	-
DS/S1-3.1.0-1	INT1	1	SB	7.687	2.585	-3.8	0.05	7.0	1.0000	-
DS/S1-3.1.0-1	INT1	2	SB	7.687	2.585	-3.8	0.05	7.0	1.0000	-
DS/S1-3.1.0-1	INT1	EQ	SB	7.687	2.585	-3.8	0.05	7.0	1.0000	-
DS/S1-3.1.0-1	INT2	1	SB	7.687	2.580	-3.8	0.05	7.0	1.0000	-
DS/S1-3.1.0-1	INT2	2	SB	7.687	2.580	-3.8	0.05	7.0	1.0000	-
DS/S1-3.1.0-1	INT2	EQ	SB	7.687	2.585	-3.8	0.12	10.8	0.9055	-
DS/S1-3.2.0-1	FIRST	1	SB	7.463	0.513	-0.6	0.05	7.0	1.0000	-
DS/S1-3.2.0-1	FIRST	2	SB	7.537	1.142	-2.0	0.05	7.0	1.0000	-
DS/S1-3.2.0-1	FIRST	EQ	SB	7.687	2.585	-3.8	0.05	7.0	1.0000	-
DS/S1-3.2.0-1	INT1	1	SB	7.687	2.585	-3.8	0.05	7.0	1.0000	-
DS/S1-3.2.0-1	INT1	2	SB	7.687	2.585	-3.8	0.05	7.0	1.0000	-
DS/S1-3.2.0-1	INT1	EQ	SB	7.687	2.585	-3.8	0.05	7.0	1.0000	-
DS/S1-3.2.0-1	INT2	1	SB	7.687	2.580	-3.8	0.05	7.0	1.0000	-
DS/S1-3.2.0-1	INT2	2	SB	7.687	2.580	-3.8	0.05	7.0	1.0000	-
DS/S1-3.2.0-1	INT2	EQ	SB	7.687	2.585	-3.8	0.12	10.8	0.9055	-
DS/S1-3.3.0	FIRST	1	SB	7.468	0.544	-0.6	0.05	7.0	1.0000	-
DS/S1-3.3.0	FIRST	2	SB	7.548	1.214	-2.0	0.05	7.0	1.0000	-
DS/S1-3.3.0	FIRST	EQ	SB	7.711	2.755	-3.7	0.05	7.0	1.0000	-
DS/S1-3.3.0	INT1	1	SB	7.711	2.755	-3.7	0.05	7.0	1.0000	-
DS/S1-3.3.0	INT1	2	SB	7.711	2.755	-3.7	0.05	7.0	1.0000	-
DS/S1-3.3.0	INT1	EQ	SB	7.711	2.755	-3.7	0.05	7.0	1.0000	-
DS/S1-3.3.0	INT2	1	SB	7.711	2.750	-3.7	0.05	7.0	1.0000	-
DS/S1-3.3.0	INT2	2	SB	7.711	2.750	-3.7	0.05	7.0	1.0000	-
DS/S1-3.3.0	INT2	EQ	SB	7.711	2.755	-3.7	0.12	10.6	0.9016	-
DS/S1-3.4.0	FIRST	1	SB	7.484	0.642	-0.8	0.05	7.0	1.0000	-
DS/S1-3.4.0	FIRST	2	SB	7.575	1.434	-2.6	0.05	7.0	1.0000	-
DS/S1-3.4.0	FIRST	EQ	SB	7.763	3.276	-4.7	0.05	7.0	1.0000	-
DS/S1-3.4.0	INT2	1	SB	7.765	3.231	-4.3	0.05	7.0	1.0000	-
DS/S1-3.4.0	INT2	2	SB	7.765	3.231	-4.3	0.05	7.0	1.0000	-
DS/S1-3.4.0	INT2	EQ	SB	7.763	3.276	-4.7	0.12	8.8	0.8608	-
DS/S4-6.1.0	FIRST	1	SB	7.610	0.743	-0.5	0.05	7.0	1.0000	-
DS/S4-6.1.0	FIRST	2	SB	7.827	1.494	-2.4	0.05	7.0	1.0000	-
DS/S4-6.1.0	FIRST	EQ	SB	8.113	2.347	-1.3	0.12	12.3	0.9362	-
DS/S5-7.1.0	FIRST	1	PS	7.598	0.511	0.0	0.05	7.0	1.0000	-
DS/S5-7.1.0	FIRST	2	PS	7.802	1.116	0.0	0.05	7.0	1.0000	-
DS/S5-7.1.0	FIRST	EQ	PS	8.043	1.772	0.0	0.12	15.4	0.9899	-
DS/S5-7.2.0	FIRST	1	SB	7.604	0.528	-0.7	0.05	7.0	1.0000	-
DS/S5-7.2.0	FIRST	2	SB	7.823	1.158	-0.8	0.05	7.0	1.0000	-
DS/S5-7.2.0	FIRST	EQ	SB	8.105	1.874	-0.3	0.12	12.4	0.9375	-
DS/S5-7.3.0	FIRST	1	SB	7.605	0.531	-0.7	0.05	7.0	1.0000	-
DS/S5-7.3.0	FIRST	2	SB	7.826	1.169	-0.8	0.05	7.0	1.0000	-
DS/S5-7.3.0	FIRST	EQ	SB	8.117	1.916	-0.3	0.12	12.2	0.9339	-
DS/S5-7.4.0	FIRST	1	SB	7.606	0.533	-0.8	0.05	7.0	1.0000	-
DS/S5-7.4.0	FIRST	2	SB	7.827	1.171	-0.9	0.05	7.0	1.0000	-
DS/S5-7.4.0	FIRST	EQ	SB	8.119	1.920	-0.3	0.12	12.1	0.9327	-
DS/S5-7.5.0	FIRST	1	SB	7.609	0.543	-0.7	0.05	7.0	1.0000	-
DS/S5-7.5.0	FIRST	2	SB	7.834	1.191	-0.8	0.05	7.0	1.0000	-
DS/S5-7.5.0	FIRST	EQ	SB	8.130	1.951	-0.3	0.12	12.0	0.9296	-
DS/S6-8.1.0-1	FIRST	1	PS	7.450	0.128	0.0	0.05	7.0	1.0000	-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DS/S6-8.1.0-1	FIRST	2	PS	7.501	0.256	0.0	0.05	7.0	1.0000		-
DS/S6-8.1.0-1	FIRST	EQ	PS	7.555	0.388	0.0	0.12	16.0	1.0000		-
DS/S6-8.2.0	FIRST	1	SB	7.702	0.734	-1.7	0.05	7.0	1.0000		-
DS/S6-8.2.0	FIRST	2	SB	8.025	1.490	-3.3	0.05	7.0	1.0000		-
DS/S6-8.2.0	FIRST	EQ	SB	8.485	2.424	-0.4	0.12	4.9	0.7437		-
DS/S6-8.3.0	FIRST	1	SB	7.702	0.734	-1.7	0.05	7.0	1.0000		-
DS/S6-8.3.0	FIRST	2	SB	8.025	1.490	-3.3	0.05	7.0	1.0000		-
DS/S6-8.3.0	FIRST	EQ	SB	8.485	2.424	-0.4	0.12	4.9	0.7437		-
DS/S6-8.4.0	FIRST	1	SB	7.702	0.736	-1.8	0.05	7.0	1.0000		-
DS/S6-8.4.0	FIRST	2	SB	8.026	1.494	-3.4	0.05	7.0	1.0000		-
DS/S6-8.4.0	FIRST	EQ	SB	8.488	2.432	-0.5	0.12	4.8	0.7392		-
DS/S6-8.5.0	FIRST	1	SB	7.704	0.743	-1.7	0.05	7.0	1.0000		-
DS/S6-8.5.0	FIRST	2	SB	8.030	1.505	-3.4	0.05	7.0	1.0000		-
DS/S6-8.5.0	FIRST	EQ	SB	8.494	2.448	-0.5	0.12	4.7	0.7358		-
DS/S6-8.6.0	FIRST	1	SB	7.709	0.745	-1.7	0.05	7.0	1.0000		-
DS/S6-8.6.0	FIRST	2	SB	8.040	1.516	-3.3	0.05	7.0	1.0000		-
DS/S6-8.6.0	FIRST	EQ	SB	8.510	2.471	-0.5	0.12	4.5	0.7287		-
DS/S7-9.1.0-1	FIRST	1	PS	7.560	0.306	0.0	0.05	7.0	1.0000		-
DS/S7-9.1.0-1	FIRST	2	PS	7.731	0.612	0.0	0.05	7.0	1.0000		-
DS/S7-9.1.0-1	FIRST	EQ	PS	7.927	0.956	0.0	0.12	16.0	1.0000		-
DS/S7-9.2.0	FIRST	1	SB	7.592	0.353	-0.5	0.05	7.0	1.0000		-
DS/S7-9.2.0	FIRST	2	SB	7.795	0.713	-0.4	0.05	7.0	1.0000		-
DS/S7-9.2.0	FIRST	EQ	SB	8.028	1.110	-0.2	0.12	16.0	1.0000		-
DS/S7-9.3.0	FIRST	1	SB	7.593	0.355	-0.5	0.05	7.0	1.0000		-
DS/S7-9.3.0	FIRST	2	SB	7.798	0.718	-0.4	0.05	7.0	1.0000		-
DS/S7-9.3.0	FIRST	EQ	SB	8.037	1.119	-0.2	0.12	16.0	1.0000		-
DS/S7-9.4.0	FIRST	1	SB	7.593	0.356	-0.5	0.05	7.0	1.0000		-
DS/S7-9.4.0	FIRST	2	SB	7.799	0.720	-0.4	0.05	7.0	1.0000		-
DS/S7-9.4.0	FIRST	EQ	SB	8.039	1.122	-0.2	0.12	16.0	1.0000		-
DS/S7-9.5.0	FIRST	1	SB	7.593	0.356	-0.5	0.05	7.0	1.0000		-
DS/S7-9.5.0	FIRST	2	SB	7.799	0.720	-0.4	0.05	7.0	1.0000		-
DS/S7-9.5.0	FIRST	EQ	SB	8.039	1.122	-0.2	0.12	16.0	1.0000		-
DS/S7-9.6.0	FIRST	1	SB	7.598	0.362	-0.5	0.05	7.0	1.0000		-
DS/S7-9.6.0	FIRST	2	SB	7.808	0.734	-0.4	0.05	7.0	1.0000		-
DS/S7-9.6.0	FIRST	EQ	SB	8.053	1.144	-0.2	0.12	16.0	1.0000		-
DS/S8-10.1.0	FIRST	1	PS	7.683	0.401	1.5	0.05	7.0	1.0000		-
DS/S8-10.1.0	FIRST	2	PS	7.982	0.801	3.3	0.05	7.0	1.0000		-
DS/S8-10.1.0	FIRST	EQ	PS	8.407	1.291	0.0	0.12	14.9	0.9828		-
DS/S8-10.2.0	FIRST	1	SB	7.682	0.394	-3.5	0.05	7.0	1.0000		-
DS/S8-10.2.0	FIRST	2	SB	7.973	0.801	-5.9	0.05	7.0	1.0000		-
DS/S8-10.2.0	FIRST	EQ	SB	8.457	1.317	-2.1	0.12	13.1	0.9513		-
DS/S8-10.3.0	FIRST	1	SB	7.683	0.396	-3.5	0.05	7.0	1.0000		-
DS/S8-10.3.0	FIRST	2	SB	7.977	0.806	-5.9	0.05	7.0	1.0000		-
DS/S8-10.3.0	FIRST	EQ	SB	8.470	1.330	-2.1	0.12	13.1	0.9504		-
DS/S8-10.4.0	FIRST	1	SB	7.689	0.400	-3.6	0.05	7.0	1.0000		-
DS/S8-10.4.0	FIRST	2	SB	7.987	0.809	-6.2	0.05	7.0	1.0000		-
DS/S8-10.4.0	FIRST	EQ	SB	8.494	1.338	-2.5	0.12	12.6	0.9413		-
DS/S8-10.5.0	FIRST	1	SB	7.689	0.401	-3.7	0.05	7.0	1.0000		-
DS/S8-10.5.0	FIRST	2	SB	7.987	0.811	-6.3	0.05	7.0	1.0000		-
DS/S8-10.5.0	FIRST	EQ	SB	8.496	1.341	-2.6	0.12	12.5	0.9404		-
DS/S8-10.6.0	FIRST	1	SB	7.696	0.394	-3.5	0.05	7.0	1.0000		-
DS/S8-10.6.0	FIRST	2	SB	8.001	0.810	-6.1	0.05	7.0	1.0000		-
DS/S8-10.6.0	FIRST	EQ	SB	8.515	1.348	-2.5	0.12	12.5	0.9400		-
DS/S8-10.7.0	FIRST	1	SB	7.702	0.405	-3.4	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DS/S8-10.7.0	FIRST	2	SB	8.013	0.826	-6.0	0.05	7.0	1.0000		-
DS/S8-10.7.0	FIRST	EQ	SB	8.531	1.369	-2.5	0.12	12.5	0.9395		-
DS/S9-11.1.0	FIRST	1	SB	7.713	0.250	-6.4	0.05	7.0	1.0000		-
DS/S9-11.1.0	FIRST	2	SB	8.066	0.411	-9.5	0.05	6.6	0.9851		-
DS/S9-11.1.0	FIRST	EQ	SB	8.855	0.608	-1.4	0.05	7.0	1.0000		-
DS/S9-11.1.0	CROSS	1	PS	8.882	0.598	0.0	0.05	7.0	1.0000		368
DS/S9-11.1.0	CROSS	2	PS	8.882	0.598	0.0	0.05	7.0	1.0000		368
DS/S9-11.1.0	CROSS	EQ	PS	8.882	0.598	0.0	0.12	13.5	0.9587		368
DS/S9-11.2.0	FIRST	1	SB	7.683	0.206	-8.6	0.05	7.0	1.0000		-
DS/S9-11.2.0	FIRST	2	SB	8.049	0.407	-11.5	0.05	4.4	0.8920		-
DS/S9-11.2.0	FIRST	EQ	SB	8.924	0.625	-4.3	0.05	7.0	1.0000		-
DS/S9-11.2.0	CROSS	1	SB	8.966	0.610	-3.0	0.05	7.0	1.0000		383
DS/S9-11.2.0	CROSS	2	SB	8.966	0.610	-3.0	0.05	7.0	1.0000		383
DS/S9-11.2.0	CROSS	EQ	SB	8.966	0.610	-3.0	0.12	10.3	0.8949		383
DS/S9-11.3.0	FIRST	1	SB	7.683	0.206	-8.6	0.05	7.0	1.0000		-
DS/S9-11.3.0	FIRST	2	SB	8.055	0.409	-11.4	0.05	4.5	0.8941		-
DS/S9-11.3.0	FIRST	EQ	SB	8.941	0.640	-4.3	0.05	7.0	1.0000		-
DS/S9-11.3.0	CROSS	1	SB	8.983	0.626	-3.0	0.05	7.0	1.0000		383
DS/S9-11.3.0	CROSS	2	SB	8.983	0.626	-3.0	0.05	7.0	1.0000		383
DS/S9-11.3.0	CROSS	EQ	SB	8.983	0.626	-3.0	0.12	10.2	0.8934		383
DS/S9-11.4.0	FIRST	1	SB	7.689	0.209	-8.6	0.05	7.0	1.0000		-
DS/S9-11.4.0	FIRST	2	SB	8.066	0.414	-11.6	0.05	4.3	0.8832		-
DS/S9-11.4.0	FIRST	EQ	SB	8.965	0.649	-4.7	0.05	7.0	1.0000		-
DS/S9-11.4.0	CROSS	1	SB	9.007	0.634	-3.4	0.05	7.0	1.0000		384
DS/S9-11.4.0	CROSS	2	SB	9.007	0.634	-3.4	0.05	7.0	1.0000		384
DS/S9-11.4.0	CROSS	EQ	SB	9.007	0.634	-3.4	0.12	9.7	0.8824		384
DS/S9-11.5.0	FIRST	1	SB	7.689	0.211	-8.7	0.05	7.0	1.0000		-
DS/S9-11.5.0	FIRST	2	SB	8.066	0.417	-11.6	0.05	4.2	0.8817		-
DS/S9-11.5.0	FIRST	EQ	SB	8.966	0.652	-4.7	0.05	7.0	1.0000		-
DS/S9-11.5.0	CROSS	1	SB	9.009	0.638	-3.4	0.05	7.0	1.0000		384
DS/S9-11.5.0	CROSS	2	SB	9.009	0.638	-3.4	0.05	7.0	1.0000		384
DS/S9-11.5.0	CROSS	EQ	SB	9.009	0.638	-3.4	0.12	9.7	0.8814		384
DS/S9-11.6.0	FIRST	1	SB	7.721	0.196	-8.1	0.05	7.0	1.0000		-
DS/S9-11.6.0	FIRST	2	SB	8.099	0.405	-11.5	0.05	4.2	0.8825		-
DS/S9-11.6.0	FIRST	EQ	SB	9.018	0.645	-4.5	0.05	7.0	1.0000		-
DS/S9-11.6.0	CROSS	1	SB	9.059	0.631	-3.3	0.05	7.0	1.0000		382
DS/S9-11.6.0	CROSS	2	SB	9.059	0.631	-3.3	0.05	7.0	1.0000		382
DS/S9-11.6.0	CROSS	EQ	SB	9.059	0.631	-3.3	0.12	9.6	0.8809		382
DS/S9-11.7.0	FIRST	1	SB	7.730	0.214	-7.9	0.05	7.0	1.0000		-
DS/S9-11.7.0	FIRST	2	SB	8.109	0.423	-11.4	0.05	4.2	0.8820		-
DS/S9-11.7.0	FIRST	EQ	SB	9.034	0.663	-4.5	0.05	7.0	1.0000		-
DS/S9-11.7.0	CROSS	1	SB	9.075	0.649	-3.2	0.05	7.0	1.0000		381
DS/S9-11.7.0	CROSS	2	SB	9.075	0.649	-3.2	0.05	7.0	1.0000		381
DS/S9-11.7.0	CROSS	EQ	SB	9.075	0.649	-3.2	0.12	9.6	0.8804		381
DS/S10-12.1.0	FIRST	1	SB	7.635	-0.228	-8.3	0.05	7.0	1.0000		-
DS/S10-12.1.0	FIRST	2	SB	7.931	-0.466	-11.5	0.05	4.9	0.9156		-
DS/S10-12.1.0	FIRST	EQ	SB	8.795	-0.779	-2.4	0.05	7.0	1.0000		-
DS/S10-12.1.0	CROSS	1	PS	8.831	-0.790	0.0	0.05	7.0	1.0000		372
DS/S10-12.1.0	CROSS	2	PS	8.831	-0.790	0.0	0.05	7.0	1.0000		372
DS/S10-12.1.0	CROSS	EQ	PS	8.831	-0.790	0.0	0.12	12.0	0.9316		372
DS/S11-13.1..	FIRST	1	SB	7.629	-0.298	-4.8	0.05	7.0	1.0000		-
DS/S11-13.1..	FIRST	2	SB	7.820	-0.671	-9.4	0.05	7.0	1.0000		-
DS/S11-13.1..	FIRST	EQ	SB	8.351	-1.261	-8.5	0.11	7.2	0.7232		-
DS/S11-13.2..	FIRST	1	SB	7.655	-0.452	-6.2	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FACSOL	CROSSTM s
DS/S11-13.2..	FIRST	2	SB	7.901	-0.966	-10.4	0.05	6.7	0.9903	-
DS/S11-13.2..	FIRST	EQ	SB	8.638	-1.702	-6.1	0.12	9.0	0.8663	-
DS/S16-18.1..	FIRST	1	PS	7.561	-0.819	0.0	0.05	7.0	1.0000	-
DS/S16-18.1..	FIRST	2	PS	7.746	-1.764	0.0	0.05	7.0	1.0000	-
DS/S16-18.1..	FIRST	EQ	PS	8.097	-3.589	0.0	0.12	16.0	1.0000	-
DS/S16-18.2..	FIRST	1	PS	7.561	-0.819	0.0	0.05	7.0	1.0000	-
DS/S16-18.2..	FIRST	2	PS	7.746	-1.764	0.0	0.05	7.0	1.0000	-
DS/S16-18.2..	FIRST	EQ	PS	8.097	-3.589	0.0	0.12	16.0	1.0000	-
DS/S4-7.1.0	FIRST	1	SB	7.645	0.709	-0.3	0.05	7.0	1.0000	-
DS/S4-7.1.0	FIRST	2	SB	7.893	1.542	-2.0	0.05	7.0	1.0000	-
DS/S4-7.1.0	FIRST	EQ	SB	8.210	2.499	-1.3	0.12	11.7	0.9249	-
DS/S5-8.1.0	FIRST	1	PS	7.598	0.511	0.0	0.05	7.0	1.0000	-
DS/S5-8.1.0	FIRST	2	PS	7.802	1.116	0.0	0.05	7.0	1.0000	-
DS/S5-8.1.0	FIRST	EQ	PS	8.043	1.772	0.0	0.12	15.1	0.9858	-
DS/S5-8.2.0	FIRST	1	SB	7.703	0.739	-1.6	0.05	7.0	1.0000	-
DS/S5-8.2.0	FIRST	2	SB	8.027	1.497	-3.3	0.05	7.0	1.0000	-
DS/S5-8.2.0	FIRST	EQ	SB	8.487	2.433	-0.4	0.12	12.4	0.9387	-
DS/S5-8.3.0	FIRST	1	SB	7.704	0.742	-1.6	0.05	7.0	1.0000	-
DS/S5-8.3.0	FIRST	2	SB	8.031	1.506	-3.3	0.05	7.0	1.0000	-
DS/S5-8.3.0	FIRST	EQ	SB	8.504	2.489	-0.4	0.12	12.3	0.9365	-
DS/S5-8.4.0	FIRST	1	SB	7.704	0.744	-1.8	0.05	7.0	1.0000	-
DS/S5-8.4.0	FIRST	2	SB	8.032	1.511	-3.4	0.05	7.0	1.0000	-
DS/S5-8.4.0	FIRST	EQ	SB	8.508	2.497	-0.5	0.12	12.2	0.9348	-
DS/S5-8.5.0	FIRST	1	SB	7.707	0.758	-1.7	0.05	7.0	1.0000	-
DS/S5-8.5.0	FIRST	2	SB	8.039	1.532	-3.3	0.05	7.0	1.0000	-
DS/S5-8.5.0	FIRST	EQ	SB	8.519	2.527	-0.5	0.12	12.1	0.9335	-
DS/S5-8.6.0	FIRST	1	SB	7.712	0.759	-1.7	0.05	7.0	1.0000	-
DS/S5-8.6.0	FIRST	2	SB	8.049	1.543	-3.3	0.05	7.0	1.0000	-
DS/S5-8.6.0	FIRST	EQ	SB	8.535	2.551	-0.5	0.12	12.1	0.9320	-
DS/S6-9.1.0-1	FIRST	1	PS	7.560	0.306	0.0	0.05	7.0	1.0000	-
DS/S6-9.1.0-1	FIRST	2	PS	7.731	0.612	0.0	0.05	7.0	1.0000	-
DS/S6-9.1.0-1	FIRST	EQ	PS	7.927	0.956	0.0	0.12	16.0	1.0000	-
DS/S6-9.2.0	FIRST	1	SB	7.702	0.734	-1.7	0.05	7.0	1.0000	-
DS/S6-9.2.0	FIRST	2	SB	8.025	1.490	-3.3	0.05	7.0	1.0000	-
DS/S6-9.2.0	FIRST	EQ	SB	8.485	2.424	-0.4	0.12	4.9	0.7437	-
DS/S6-9.3.0	FIRST	1	SB	7.703	0.736	-1.7	0.05	7.0	1.0000	-
DS/S6-9.3.0	FIRST	2	SB	8.029	1.498	-3.3	0.05	7.0	1.0000	-
DS/S6-9.3.0	FIRST	EQ	SB	8.499	2.440	-0.4	0.12	4.7	0.7375	-
DS/S6-9.4.0	FIRST	1	SB	7.703	0.738	-1.8	0.05	7.0	1.0000	-
DS/S6-9.4.0	FIRST	2	SB	8.029	1.502	-3.4	0.05	7.0	1.0000	-
DS/S6-9.4.0	FIRST	EQ	SB	8.502	2.448	-0.5	0.12	4.6	0.7330	-
DS/S6-9.5.0	FIRST	1	SB	7.705	0.745	-1.7	0.05	7.0	1.0000	-
DS/S6-9.5.0	FIRST	2	SB	8.033	1.513	-3.4	0.05	7.0	1.0000	-
DS/S6-9.5.0	FIRST	EQ	SB	8.509	2.463	-0.5	0.12	4.5	0.7294	-
DS/S6-9.6.0	FIRST	1	SB	7.710	0.747	-1.7	0.05	7.0	1.0000	-
DS/S6-9.6.0	FIRST	2	SB	8.043	1.524	-3.3	0.05	7.0	1.0000	-
DS/S6-9.6.0	FIRST	EQ	SB	8.524	2.487	-0.5	0.12	4.3	0.7221	-
DS/S7-10.1.0	FIRST	1	PS	7.683	0.401	1.5	0.05	7.0	1.0000	-
DS/S7-10.1.0	FIRST	2	PS	7.982	0.801	3.3	0.05	7.0	1.0000	-
DS/S7-10.1.0	FIRST	EQ	PS	8.407	1.291	0.0	0.12	14.9	0.9828	-
DS/S7-10.2.0	FIRST	1	SB	7.682	0.394	-3.5	0.05	7.0	1.0000	-
DS/S7-10.2.0	FIRST	2	SB	7.973	0.801	-5.9	0.05	7.0	1.0000	-
DS/S7-10.2.0	FIRST	EQ	SB	8.457	1.317	-2.1	0.12	13.1	0.9513	-
DS/S7-10.3.0	FIRST	1	SB	7.683	0.396	-3.5	0.05	7.0	1.0000	-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DS/S7-10.3.0	FIRST	2	SB	7.977	0.806	-5.9	0.05	7.0	1.0000		-
DS/S7-10.3.0	FIRST	EQ	SB	8.470	1.330	-2.1	0.12	13.1	0.9504		-
DS/S7-10.4.0	FIRST	1	SB	7.689	0.400	-3.6	0.05	7.0	1.0000		-
DS/S7-10.4.0	FIRST	2	SB	7.987	0.809	-6.2	0.05	7.0	1.0000		-
DS/S7-10.4.0	FIRST	EQ	SB	8.494	1.338	-2.5	0.12	12.6	0.9413		-
DS/S7-10.5.0	FIRST	1	SB	7.689	0.401	-3.7	0.05	7.0	1.0000		-
DS/S7-10.5.0	FIRST	2	SB	7.987	0.811	-6.3	0.05	7.0	1.0000		-
DS/S7-10.5.0	FIRST	EQ	SB	8.496	1.341	-2.6	0.12	12.5	0.9404		-
DS/S7-10.6.0	FIRST	1	SB	7.696	0.394	-3.5	0.05	7.0	1.0000		-
DS/S7-10.6.0	FIRST	2	SB	8.001	0.810	-6.1	0.05	7.0	1.0000		-
DS/S7-10.6.0	FIRST	EQ	SB	8.515	1.348	-2.5	0.12	12.5	0.9400		-
DS/S7-10.7.0	FIRST	1	SB	7.702	0.405	-3.4	0.05	7.0	1.0000		-
DS/S7-10.7.0	FIRST	2	SB	8.013	0.826	-6.0	0.05	7.0	1.0000		-
DS/S7-10.7.0	FIRST	EQ	SB	8.531	1.369	-2.5	0.12	12.5	0.9395		-
DS/S8-11.1.0	FIRST	1	SB	7.659	0.312	-9.8	0.05	7.0	1.0000		-
DS/S8-11.1.0	FIRST	2	SB	8.074	0.642	-12.1	0.05	3.9	0.8627		-
DS/S8-11.1.0	FIRST	EQ	SB	9.089	1.025	-1.9	0.05	7.0	1.0000		-
DS/S8-11.1.0	CROSS	1	SB	9.119	1.014	-0.0	0.05	7.0	1.0000		364
DS/S8-11.1.0	CROSS	2	SB	9.119	1.014	-0.0	0.05	7.0	1.0000		364
DS/S8-11.1.0	CROSS	EQ	SB	9.119	1.014	-0.0	0.12	13.2	0.9533		364
DS/S9-12.1.0	FIRST	1	SB	7.642	0.006	-11.8	0.05	5.8	0.9547		-
DS/S9-12.1.0	FIRST	2	SB	8.133	0.046	-13.8	0.05	1.6	0.6963		-
DS/S9-12.1.0	FIRST	EQ	SB	9.452	-0.110	-2.5	0.05	7.0	1.0000		-
DS/S9-12.1.0	CROSS	1	SB	9.488	-0.126	-0.0	0.05	7.0	1.0000		356
DS/S9-12.1.0	CROSS	2	SB	9.488	-0.126	-0.0	0.05	7.0	1.0000		356
DS/S9-12.1.0	CROSS	EQ	SB	9.488	-0.126	-0.0	0.12	10.5	0.9002		356
DS/S4-8.1.0	FIRST	1	SB	7.645	0.709	-0.3	0.05	7.0	1.0000		-
DS/S4-8.1.0	FIRST	2	SB	7.893	1.542	-2.0	0.05	7.0	1.0000		-
DS/S4-8.1.0	FIRST	EQ	SB	8.210	2.499	-1.3	0.12	8.6	0.8563		-
DS/S5-9.1.0	FIRST	1	PS	7.703	0.729	0.9	0.05	7.0	1.0000		-
DS/S5-9.1.0	FIRST	2	PS	8.038	1.476	0.0	0.05	7.0	1.0000		-
DS/S5-9.1.0	FIRST	EQ	SB	8.474	2.402	-0.0	0.12	12.9	0.9479		-
DS/S5-9.2.0	FIRST	1	SB	7.703	0.739	-1.6	0.05	7.0	1.0000		-
DS/S5-9.2.0	FIRST	2	SB	8.027	1.497	-3.3	0.05	7.0	1.0000		-
DS/S5-9.2.0	FIRST	EQ	SB	8.487	2.433	-0.4	0.12	12.4	0.9387		-
DS/S5-9.3.0	FIRST	1	SB	7.705	0.744	-1.6	0.05	7.0	1.0000		-
DS/S5-9.3.0	FIRST	2	SB	8.035	1.514	-3.2	0.05	7.0	1.0000		-
DS/S5-9.3.0	FIRST	EQ	SB	8.519	2.505	-0.4	0.12	12.2	0.9352		-
DS/S5-9.4.0	FIRST	1	SB	7.705	0.746	-1.8	0.05	7.0	1.0000		-
DS/S5-9.4.0	FIRST	2	SB	8.036	1.519	-3.4	0.05	7.0	1.0000		-
DS/S5-9.4.0	FIRST	EQ	SB	8.523	2.513	-0.5	0.12	12.1	0.9335		-
DS/S5-9.5.0	FIRST	1	SB	7.708	0.760	-1.7	0.05	7.0	1.0000		-
DS/S5-9.5.0	FIRST	2	SB	8.043	1.540	-3.3	0.05	7.0	1.0000		-
DS/S5-9.5.0	FIRST	EQ	SB	8.534	2.544	-0.5	0.12	12.1	0.9321		-
DS/S5-9.6.0	FIRST	1	SB	7.713	0.761	-1.7	0.05	7.0	1.0000		-
DS/S5-9.6.0	FIRST	2	SB	8.053	1.551	-3.3	0.05	7.0	1.0000		-
DS/S5-9.6.0	FIRST	EQ	SB	8.549	2.568	-0.5	0.12	12.0	0.9306		-
DS/S6-10.1.0	FIRST	1	PS	7.699	0.524	1.2	0.05	7.0	1.0000		-
DS/S6-10.1.0	FIRST	2	PS	8.024	0.945	2.9	0.05	7.0	1.0000		-
DS/S6-10.1.0	FIRST	EQ	SB	8.474	1.462	-0.0	0.12	15.1	0.9863		-
DS/S7-11.1.0	FIRST	1	SB	7.659	0.312	-9.8	0.05	7.0	1.0000		-
DS/S7-11.1.0	FIRST	2	SB	8.074	0.642	-12.1	0.05	3.9	0.8627		-
DS/S7-11.1.0	FIRST	EQ	SB	9.089	1.025	-1.9	0.05	7.0	1.0000		-
DS/S7-11.1.0	CROSS	1	SB	9.119	1.014	-0.0	0.05	7.0	1.0000		364

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DS/S7-11.1.0	CROSS	2	SB	9.119	1.014	-0.0	0.05	7.0	1.0000		364
DS/S7-11.1.0	CROSS	EQ	SB	9.119	1.014	-0.0	0.12	13.2	0.9533		364
DS/S5-10.1.0	FIRST	1	PS	7.774	0.772	3.7	0.05	7.0	1.0000		-
DS/S5-10.1.0	FIRST	2	PS	8.128	1.594	8.4	0.05	6.2	0.9696		-
DS/S5-10.1.0	FIRST	EQ	SB	8.926	2.665	-0.1	0.12	5.0	0.7468		-
DS/S6-11.1.0	FIRST	1	SB	7.694	0.453	-9.3	0.05	7.0	1.0000		-
DS/S6-11.1.0	FIRST	2	SB	8.120	0.803	-12.0	0.05	3.9	0.8618		-
DS/S6-11.1.0	FIRST	EQ	SB	9.164	1.192	-1.8	0.05	7.0	1.0000		-
DS/S6-11.1.0	CROSS	1	SB	9.193	1.182	-0.0	0.05	7.0	1.0000		362
DS/S6-11.1.0	CROSS	2	SB	9.193	1.181	-0.0	0.05	7.0	1.0000		362
DS/S6-11.1.0	CROSS	EQ	SB	9.193	1.181	-0.0	0.12	12.9	0.9483		362

12.2.2 Partial Draught DP

RESULTS

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FACSOL	CROSSTM s
DP/P1.1.0-1	FIRST	1	PS	7.201	0.006	0.0	0.05	7.0	1.0000	-
DP/P1.1.0-1	FIRST	2	PS	7.201	0.012	0.0	0.05	7.0	1.0000	-
DP/P1.1.0-1	FIRST	EQ	PS	7.202	0.018	0.0	0.12	16.0	1.0000	-
DP/P1.2.0-1	FIRST	1	PS	7.201	0.006	0.0	0.05	7.0	1.0000	-
DP/P1.2.0-1	FIRST	2	PS	7.201	0.012	0.0	0.05	7.0	1.0000	-
DP/P1.2.0-1	FIRST	EQ	PS	7.202	0.018	0.0	0.12	16.0	1.0000	-
DP/P2.1.0-1	FIRST	1	PS	7.220	0.169	0.0	0.05	7.0	1.0000	-
DP/P2.1.0-1	FIRST	2	PS	7.241	0.369	0.0	0.05	7.0	1.0000	-
DP/P2.1.0-1	FIRST	EQ	PS	7.270	0.647	0.0	0.05	7.0	1.0000	-
DP/P2.1.0-1	INT2	1	PS	7.270	0.647	0.0	0.05	7.0	1.0000	-
DP/P2.1.0-1	INT2	2	PS	7.270	0.647	0.0	0.05	7.0	1.0000	-
DP/P2.1.0-1	INT2	EQ	PS	7.270	0.647	0.0	0.12	16.0	1.0000	-
DP/P3.1.0-1	FIRST	1	PS	7.235	0.243	0.8	0.05	7.0	1.0000	-
DP/P3.1.0-1	FIRST	2	PS	7.270	0.520	1.7	0.05	7.0	1.0000	-
DP/P3.1.0-1	FIRST	EQ	PS	7.313	0.865	2.4	0.05	7.0	1.0000	-
DP/P3.1.0-1	INT1	1	PS	7.313	0.865	2.4	0.05	7.0	1.0000	-
DP/P3.1.0-1	INT1	2	PS	7.313	0.865	2.4	0.05	7.0	1.0000	-
DP/P3.1.0-1	INT1	EQ	PS	7.313	0.865	2.4	0.05	7.0	1.0000	-
DP/P3.1.0-1	INT2	1	PS	7.313	0.865	2.4	0.05	7.0	1.0000	-
DP/P3.1.0-1	INT2	2	PS	7.313	0.865	2.4	0.05	7.0	1.0000	-
DP/P3.1.0-1	INT2	EQ	PS	7.313	0.865	2.4	0.12	16.0	0.9997	-
DP/P3.2.0	FIRST	1	PS	7.241	0.279	0.8	0.05	7.0	1.0000	-
DP/P3.2.0	FIRST	2	PS	7.280	0.592	1.7	0.05	7.0	1.0000	-
DP/P3.2.0	FIRST	EQ	PS	7.330	0.981	2.4	0.05	7.0	1.0000	-
DP/P3.2.0	INT1	1	PS	7.330	0.981	2.4	0.05	7.0	1.0000	-
DP/P3.2.0	INT1	2	PS	7.330	0.981	2.4	0.05	7.0	1.0000	-
DP/P3.2.0	INT1	EQ	PS	7.330	0.981	2.4	0.05	7.0	1.0000	-
DP/P3.2.0	INT2	1	PS	7.330	0.981	2.4	0.05	7.0	1.0000	-
DP/P3.2.0	INT2	2	PS	7.330	0.981	2.4	0.05	7.0	1.0000	-
DP/P3.2.0	INT2	EQ	PS	7.330	0.981	2.4	0.12	15.8	0.9965	-
DP/P3.3.0	FIRST	1	PS	7.255	0.387	1.0	0.05	7.0	1.0000	-
DP/P3.3.0	FIRST	2	PS	7.308	0.813	2.2	0.05	7.0	1.0000	-
DP/P3.3.0	FIRST	EQ	PS	7.374	1.332	3.1	0.05	7.0	1.0000	-
DP/P3.3.0	INT1	1	PS	7.374	1.332	3.1	0.05	7.0	1.0000	-
DP/P3.3.0	INT1	2	PS	7.374	1.332	3.1	0.05	7.0	1.0000	-
DP/P3.3.0	INT1	EQ	PS	7.374	1.332	3.1	0.05	7.0	1.0000	-
DP/P3.3.0	INT2	1	PS	7.374	1.332	3.1	0.05	7.0	1.0000	-
DP/P3.3.0	INT2	2	PS	7.374	1.332	3.1	0.05	7.0	1.0000	-
DP/P3.3.0	INT2	EQ	PS	7.374	1.332	3.1	0.12	14.3	0.9730	-
DP/P4.1.0	FIRST	1	PS	7.248	0.232	0.0	0.05	7.0	1.0000	-
DP/P4.1.0	FIRST	2	PS	7.295	0.470	0.0	0.05	7.0	1.0000	-
DP/P4.1.0	FIRST	EQ	PS	7.343	0.712	0.3	0.12	16.0	1.0000	-
DP/P4.2.0-1	FIRST	1	PS	7.262	0.313	0.8	0.05	7.0	1.0000	-
DP/P4.2.0-1	FIRST	2	PS	7.321	0.633	1.6	0.05	7.0	1.0000	-
DP/P4.2.0-1	FIRST	EQ	PS	7.390	0.994	2.1	0.12	16.0	1.0000	-
DP/P4.3.0	FIRST	1	PS	7.273	0.366	0.7	0.05	7.0	1.0000	-
DP/P4.3.0	FIRST	2	PS	7.343	0.742	1.6	0.05	7.0	1.0000	-
DP/P4.3.0	FIRST	EQ	PS	7.425	1.169	2.3	0.12	15.8	0.9964	-
DP/P4.4.0	FIRST	1	PS	7.277	0.383	0.6	0.05	7.0	1.0000	-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FACSOL	CROSSTM s
DP/P4.4.0	FIRST	2	PS	7.351	0.777	1.5	0.05	7.0	1.0000	-
DP/P4.4.0	FIRST	EQ	PS	7.438	1.224	2.3	0.12	15.7	0.9947	-
DP/P5.1.0-1	FIRST	1	PS	7.295	0.335	0.0	0.05	7.0	1.0000	-
DP/P5.1.0-1	FIRST	2	PS	7.395	0.683	0.0	0.05	7.0	1.0000	-
DP/P5.1.0-1	FIRST	EQ	PS	7.506	1.056	0.0	0.12	16.0	1.0000	-
DP/P5.2.0	FIRST	1	PS	7.317	0.403	0.2	0.05	7.0	1.0000	-
DP/P5.2.0	FIRST	2	PS	7.437	0.822	0.3	0.05	7.0	1.0000	-
DP/P5.2.0	FIRST	EQ	PS	7.573	1.267	0.2	0.12	16.0	1.0000	-
DP/P5.3.0	FIRST	1	PS	7.317	0.405	0.2	0.05	7.0	1.0000	-
DP/P5.3.0	FIRST	2	PS	7.440	0.829	0.3	0.05	7.0	1.0000	-
DP/P5.3.0	FIRST	EQ	PS	7.579	1.291	0.2	0.12	16.0	1.0000	-
DP/P5.4.0	FIRST	1	PS	7.318	0.406	0.3	0.05	7.0	1.0000	-
DP/P5.4.0	FIRST	2	PS	7.441	0.832	0.3	0.05	7.0	1.0000	-
DP/P5.4.0	FIRST	EQ	PS	7.581	1.297	0.2	0.12	16.0	1.0000	-
DP/P5.5.0	FIRST	1	PS	7.320	0.415	0.3	0.05	7.0	1.0000	-
DP/P5.5.0	FIRST	2	PS	7.446	0.849	0.3	0.05	7.0	1.0000	-
DP/P5.5.0	FIRST	EQ	PS	7.589	1.321	0.2	0.12	16.0	1.0000	-
DP/P6.1.0-1	FIRST	1	PS	7.249	0.128	0.0	0.05	7.0	1.0000	-
DP/P6.1.0-1	FIRST	2	PS	7.299	0.257	0.0	0.05	7.0	1.0000	-
DP/P6.1.0-1	FIRST	EQ	PS	7.351	0.390	0.0	0.12	16.0	1.0000	-
DP/P6.2.0	FIRST	1	PS	7.363	0.533	0.3	0.05	7.0	1.0000	-
DP/P6.2.0	FIRST	2	PS	7.537	1.068	0.4	0.05	7.0	1.0000	-
DP/P6.2.0	FIRST	EQ	PS	7.742	1.647	0.2	0.12	16.0	1.0000	-
DP/P6.3.0	FIRST	1	PS	7.363	0.533	0.3	0.05	7.0	1.0000	-
DP/P6.3.0	FIRST	2	PS	7.537	1.068	0.4	0.05	7.0	1.0000	-
DP/P6.3.0	FIRST	EQ	PS	7.742	1.647	0.2	0.12	16.0	1.0000	-
DP/P6.4.0	FIRST	1	PS	7.364	0.534	0.4	0.05	7.0	1.0000	-
DP/P6.4.0	FIRST	2	PS	7.538	1.072	0.5	0.05	7.0	1.0000	-
DP/P6.4.0	FIRST	EQ	PS	7.743	1.652	0.2	0.12	16.0	1.0000	-
DP/P6.5.0	FIRST	1	PS	7.365	0.539	0.4	0.05	7.0	1.0000	-
DP/P6.5.0	FIRST	2	PS	7.542	1.082	0.5	0.05	7.0	1.0000	-
DP/P6.5.0	FIRST	EQ	PS	7.749	1.667	0.2	0.12	16.0	1.0000	-
DP/P7.1.0-1	FIRST	1	PS	7.249	0.128	0.0	0.05	7.0	1.0000	-
DP/P7.1.0-1	FIRST	2	PS	7.299	0.257	0.0	0.05	7.0	1.0000	-
DP/P7.1.0-1	FIRST	EQ	PS	7.351	0.390	0.0	0.12	16.0	1.0000	-
DP/P7.2.0-1	FIRST	1	PS	7.251	0.132	0.0	0.05	7.0	1.0000	-
DP/P7.2.0-1	FIRST	2	PS	7.306	0.269	0.0	0.05	7.0	1.0000	-
DP/P7.2.0-1	FIRST	EQ	PS	7.368	0.419	0.0	0.12	16.0	1.0000	-
DP/P7.3.0-1	FIRST	1	PS	7.251	0.132	0.0	0.05	7.0	1.0000	-
DP/P7.3.0-1	FIRST	2	PS	7.306	0.269	0.0	0.05	7.0	1.0000	-
DP/P7.3.0-1	FIRST	EQ	PS	7.368	0.419	0.0	0.12	16.0	1.0000	-
DP/P7.4.0-1	FIRST	1	PS	7.251	0.132	0.0	0.05	7.0	1.0000	-
DP/P7.4.0-1	FIRST	2	PS	7.306	0.269	0.0	0.05	7.0	1.0000	-
DP/P7.4.0-1	FIRST	EQ	PS	7.368	0.419	0.0	0.12	16.0	1.0000	-
DP/P7.5.0-1	FIRST	1	PS	7.251	0.132	0.0	0.05	7.0	1.0000	-
DP/P7.5.0-1	FIRST	2	PS	7.306	0.269	0.0	0.05	7.0	1.0000	-
DP/P7.5.0-1	FIRST	EQ	PS	7.368	0.419	0.0	0.12	16.0	1.0000	-
DP/P8.1.0-1	FIRST	1	PS	7.249	0.128	0.0	0.05	7.0	1.0000	-
DP/P8.1.0-1	FIRST	2	PS	7.299	0.257	0.0	0.05	7.0	1.0000	-
DP/P8.1.0-1	FIRST	EQ	PS	7.351	0.390	0.0	0.12	16.0	1.0000	-
DP/P8.2.0	FIRST	1	PS	7.388	0.357	0.4	0.05	7.0	1.0000	-
DP/P8.2.0	FIRST	2	PS	7.588	0.723	0.5	0.05	7.0	1.0000	-
DP/P8.2.0	FIRST	EQ	PS	7.818	1.124	0.2	0.12	16.0	1.0000	-
DP/P8.3.0	FIRST	1	PS	7.388	0.357	0.4	0.05	7.0	1.0000	-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DP/P8.3.0	FIRST	2	PS	7.588	0.723	0.5	0.05	7.0	1.0000		-
DP/P8.3.0	FIRST	EQ	PS	7.818	1.124	0.2	0.12	16.0	1.0000		-
DP/P8.4.0	FIRST	1	PS	7.389	0.358	0.5	0.05	7.0	1.0000		-
DP/P8.4.0	FIRST	2	PS	7.589	0.725	0.6	0.05	7.0	1.0000		-
DP/P8.4.0	FIRST	EQ	PS	7.820	1.127	0.2	0.12	16.0	1.0000		-
DP/P8.5.0	FIRST	1	PS	7.389	0.358	0.5	0.05	7.0	1.0000		-
DP/P8.5.0	FIRST	2	PS	7.589	0.725	0.6	0.05	7.0	1.0000		-
DP/P8.5.0	FIRST	EQ	PS	7.820	1.127	0.2	0.12	16.0	1.0000		-
DP/P8.6.0	FIRST	1	PS	7.393	0.365	0.5	0.05	7.0	1.0000		-
DP/P8.6.0	FIRST	2	PS	7.598	0.739	0.5	0.05	7.0	1.0000		-
DP/P8.6.0	FIRST	EQ	PS	7.834	1.148	0.2	0.12	16.0	1.0000		-
DP/P9.1.0-1	FIRST	1	PS	7.308	0.186	0.0	0.05	7.0	1.0000		-
DP/P9.1.0-1	FIRST	2	PS	7.421	0.372	0.0	0.05	7.0	1.0000		-
DP/P9.1.0-1	FIRST	EQ	PS	7.545	0.573	0.0	0.12	16.0	1.0000		-
DP/P9.2.0	FIRST	1	PS	7.339	0.252	0.3	0.05	7.0	1.0000		-
DP/P9.2.0	FIRST	2	PS	7.485	0.489	0.3	0.05	7.0	1.0000		-
DP/P9.2.0	FIRST	EQ	PS	7.646	0.740	0.2	0.12	16.0	1.0000		-
DP/P9.3.0	FIRST	1	PS	7.340	0.253	0.3	0.05	7.0	1.0000		-
DP/P9.3.0	FIRST	2	PS	7.487	0.492	0.3	0.05	7.0	1.0000		-
DP/P9.3.0	FIRST	EQ	PS	7.651	0.746	0.2	0.12	16.0	1.0000		-
DP/P9.4.0	FIRST	1	PS	7.340	0.254	0.3	0.05	7.0	1.0000		-
DP/P9.4.0	FIRST	2	PS	7.488	0.494	0.4	0.05	7.0	1.0000		-
DP/P9.4.0	FIRST	EQ	PS	7.653	0.749	0.2	0.12	16.0	1.0000		-
DP/P9.5.0	FIRST	1	PS	7.340	0.254	0.3	0.05	7.0	1.0000		-
DP/P9.5.0	FIRST	2	PS	7.488	0.494	0.4	0.05	7.0	1.0000		-
DP/P9.5.0	FIRST	EQ	PS	7.653	0.749	0.2	0.12	16.0	1.0000		-
DP/P9.6.0	FIRST	1	PS	7.344	0.262	0.3	0.05	7.0	1.0000		-
DP/P9.6.0	FIRST	2	PS	7.496	0.508	0.4	0.05	7.0	1.0000		-
DP/P9.6.0	FIRST	EQ	PS	7.666	0.769	0.2	0.12	16.0	1.0000		-
DP/P10.1.0-1	FIRST	1	PS	7.278	0.053	0.0	0.05	7.0	1.0000		-
DP/P10.1.0-1	FIRST	2	PS	7.360	0.107	0.0	0.05	7.0	1.0000		-
DP/P10.1.0-1	FIRST	EQ	PS	7.451	0.164	0.0	0.12	16.0	1.0000		-
DP/P10.2.0	FIRST	1	PS	7.307	0.069	1.0	0.05	7.0	1.0000		-
DP/P10.2.0	FIRST	2	PS	7.417	0.136	1.8	0.05	7.0	1.0000		-
DP/P10.2.0	FIRST	EQ	PS	7.545	0.210	1.6	0.12	16.0	1.0000		-
DP/P10.3.0	FIRST	1	PS	7.315	0.072	1.1	0.05	7.0	1.0000		-
DP/P10.3.0	FIRST	2	PS	7.432	0.141	2.1	0.05	7.0	1.0000		-
DP/P10.3.0	FIRST	EQ	PS	7.569	0.218	2.0	0.12	16.0	1.0000		-
DP/P10.4.0	FIRST	1	PS	7.321	0.073	1.0	0.05	7.0	1.0000		-
DP/P10.4.0	FIRST	2	PS	7.444	0.145	2.0	0.05	7.0	1.0000		-
DP/P10.4.0	FIRST	EQ	PS	7.587	0.225	1.9	0.12	16.0	1.0000		-
DP/P11.1.0-1	FIRST	1	PS	7.347	-0.074	0.0	0.05	7.0	1.0000		-
DP/P11.1.0-1	FIRST	2	PS	7.502	-0.151	0.0	0.05	7.0	1.0000		-
DP/P11.1.0-1	FIRST	EQ	PS	7.681	-0.239	0.0	0.12	16.0	1.0000		-
DP/P11.2.0	FIRST	1	PS	7.351	-0.085	2.7	0.05	7.0	1.0000		-
DP/P11.2.0	FIRST	2	PS	7.519	-0.173	3.1	0.05	7.0	1.0000		-
DP/P11.2.0	FIRST	EQ	PS	7.729	-0.267	1.9	0.05	7.0	1.0000		-
DP/P11.2.0	CROSS	1	PS	7.757	-0.274	0.8	0.05	7.0	1.0000		404
DP/P11.2.0	CROSS	2	PS	7.757	-0.274	0.8	0.05	7.0	1.0000		404
DP/P11.2.0	CROSS	EQ	PS	7.757	-0.274	0.8	0.12	16.0	1.0000		404
DP/P11.3.0	FIRST	1	PS	7.360	-0.090	2.6	0.05	7.0	1.0000		-
DP/P11.3.0	FIRST	2	PS	7.536	-0.182	3.1	0.05	7.0	1.0000		-
DP/P11.3.0	FIRST	EQ	PS	7.756	-0.281	1.9	0.05	7.0	1.0000		-
DP/P11.3.0	CROSS	1	PS	7.783	-0.288	0.8	0.05	7.0	1.0000		403

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DP/P11.3.0	CROSS	2	PS	7.783	-0.288	0.8	0.05	7.0	1.0000		403
DP/P11.3.0	CROSS	EQ	PS	7.783	-0.288	0.8	0.12	16.0	1.0000		403
DP/P12.1.0-1	FIRST	1	PS	7.296	-0.158	0.0	0.05	7.0	1.0000		-
DP/P12.1.0-1	FIRST	2	PS	7.397	-0.322	0.0	0.05	7.0	1.0000		-
DP/P12.1.0-1	FIRST	EQ	PS	7.518	-0.514	0.0	0.12	16.0	1.0000		-
DP/P12.2.0	FIRST	1	PS	7.345	-0.246	1.9	0.05	7.0	1.0000		-
DP/P12.2.0	FIRST	2	PS	7.484	-0.504	3.8	0.05	7.0	1.0000		-
DP/P12.2.0	FIRST	EQ	PS	7.674	-0.794	3.7	0.12	14.4	0.9737		-
DP/P12.3.0	FIRST	1	PS	7.354	-0.255	1.7	0.05	7.0	1.0000		-
DP/P12.3.0	FIRST	2	PS	7.501	-0.525	3.7	0.05	7.0	1.0000		-
DP/P12.3.0	FIRST	EQ	PS	7.700	-0.829	3.6	0.12	14.4	0.9734		-
DP/P13.1.0-1	FIRST	1	PS	7.214	-0.036	0.6	0.05	7.0	1.0000		-
DP/P13.1.0-1	FIRST	2	PS	7.227	-0.075	1.2	0.05	7.0	1.0000		-
DP/P13.1.0-1	FIRST	EQ	PS	7.245	-0.132	2.0	0.12	16.0	1.0000		-
DP/P13.2.0-1	FIRST	1	PS	7.271	-0.183	0.6	0.05	7.0	1.0000		-
DP/P13.2.0-1	FIRST	2	PS	7.344	-0.378	1.4	0.05	7.0	1.0000		-
DP/P13.2.0-1	FIRST	EQ	PS	7.434	-0.611	1.9	0.12	16.0	1.0000		-
DP/P13.3.0	FIRST	1	PS	7.323	-0.309	0.9	0.05	7.0	1.0000		-
DP/P13.3.0	FIRST	2	PS	7.445	-0.638	2.5	0.05	7.0	1.0000		-
DP/P13.3.0	FIRST	EQ	PS	7.590	-1.032	3.7	0.12	14.4	0.9748		-
DP/P14.1.0	FIRST	1	PS	7.303	-0.333	0.6	0.05	7.0	1.0000		-
DP/P14.1.0	FIRST	2	PS	7.411	-0.689	1.3	0.05	7.0	1.0000		-
DP/P14.1.0	FIRST	EQ	PS	7.546	-1.139	2.2	0.05	7.0	1.0000		-
DP/P14.1.0	CROSS	1	PS	7.589	-1.253	1.2	0.05	7.0	1.0000		1343
DP/P14.1.0	CROSS	2	PS	7.633	-1.381	0.0	0.05	7.0	1.0000		1343
DP/P14.1.0	CROSS	EQ	PS	7.633	-1.381	0.0	0.12	16.0	1.0000		1343
DP/P14.2.0	FIRST	1	PS	7.325	-0.404	0.4	0.05	7.0	1.0000		-
DP/P14.2.0	FIRST	2	PS	7.457	-0.833	1.2	0.05	7.0	1.0000		-
DP/P14.2.0	FIRST	EQ	PS	7.620	-1.372	2.1	0.05	7.0	1.0000		-
DP/P14.2.0	CROSS	1	PS	7.663	-1.487	1.2	0.05	7.0	1.0000		1328
DP/P14.2.0	CROSS	2	PS	7.706	-1.611	0.0	0.05	7.0	1.0000		1328
DP/P14.2.0	CROSS	EQ	PS	7.706	-1.611	0.0	0.12	16.0	1.0000		1328
DP/P15.1.0-1	FIRST	1	PS	7.288	-0.352	0.0	0.05	7.0	1.0000		-
DP/P15.1.0-1	FIRST	2	PS	7.386	-0.738	0.0	0.05	7.0	1.0000		-
DP/P15.1.0-1	FIRST	EQ	PS	7.524	-1.291	0.0	0.12	16.0	1.0000		-
DP/P15.2.0-1	FIRST	1	PS	7.288	-0.352	0.0	0.05	7.0	1.0000		-
DP/P15.2.0-1	FIRST	2	PS	7.386	-0.738	0.0	0.05	7.0	1.0000		-
DP/P15.2.0-1	FIRST	EQ	PS	7.524	-1.291	0.0	0.12	16.0	1.0000		-
DP/P16.1.0-1	FIRST	1	PS	7.287	-0.408	0.0	0.05	7.0	1.0000		-
DP/P16.1.0-1	FIRST	2	PS	7.382	-0.858	0.0	0.05	7.0	1.0000		-
DP/P16.1.0-1	FIRST	EQ	PS	7.513	-1.486	0.0	0.12	16.0	1.0000		-
DP/P16.2.0-1	FIRST	1	PS	7.287	-0.408	0.0	0.05	7.0	1.0000		-
DP/P16.2.0-1	FIRST	2	PS	7.382	-0.858	0.0	0.05	7.0	1.0000		-
DP/P16.2.0-1	FIRST	EQ	PS	7.513	-1.486	0.0	0.12	16.0	1.0000		-
DP/P17.1.0-1	FIRST	1	PS	7.235	-0.186	0.0	0.05	7.0	1.0000		-
DP/P17.1.0-1	FIRST	2	PS	7.273	-0.386	0.0	0.05	7.0	1.0000		-
DP/P17.1.0-1	FIRST	EQ	PS	7.319	-0.634	0.0	0.12	16.0	1.0000		-
DP/P18.1.0-1	FIRST	1	PS	7.222	-0.132	0.0	0.05	7.0	1.0000		-
DP/P18.1.0-1	FIRST	2	PS	7.245	-0.267	0.0	0.05	7.0	1.0000		-
DP/P18.1.0-1	FIRST	EQ	PS	7.268	-0.406	0.0	0.12	16.0	1.0000		-
DP/P1-2.1.0-1	FIRST	1	PS	7.226	0.220	0.0	0.05	7.0	1.0000		-
DP/P1-2.1.0-1	FIRST	2	PS	7.253	0.485	0.0	0.05	7.0	1.0000		-
DP/P1-2.1.0-1	FIRST	EQ	PS	7.295	0.899	0.0	0.05	7.0	1.0000		-
DP/P1-2.1.0-1	INT2	1	PS	7.295	0.899	0.0	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FACSOL	CROSSTM s
DP/P1-2.1.0-1	INT2	2	PS	7.295	0.899	0.0	0.05	7.0	1.0000	-
DP/P1-2.1.0-1	INT2	EQ	PS	7.295	0.899	0.0	0.12	16.0	1.0000	-
DP/P1-2.2.0-1	FIRST	1	PS	7.226	0.220	0.0	0.05	7.0	1.0000	-
DP/P1-2.2.0-1	FIRST	2	PS	7.253	0.485	0.0	0.05	7.0	1.0000	-
DP/P1-2.2.0-1	FIRST	EQ	PS	7.295	0.899	0.0	0.05	7.0	1.0000	-
DP/P1-2.2.0-1	INT2	1	PS	7.295	0.899	0.0	0.05	7.0	1.0000	-
DP/P1-2.2.0-1	INT2	2	PS	7.295	0.899	0.0	0.05	7.0	1.0000	-
DP/P1-2.2.0-1	INT2	EQ	PS	7.295	0.899	0.0	0.12	16.0	1.0000	-
DP/P2-3.1.0-1	FIRST	1	PS	7.259	0.472	0.7	0.05	7.0	1.0000	-
DP/P2-3.1.0-1	FIRST	2	PS	7.323	1.050	2.0	0.05	7.0	1.0000	-
DP/P2-3.1.0-1	FIRST	EQ	PS	7.430	2.013	3.5	0.05	7.0	1.0000	-
DP/P2-3.1.0-1	INT1	1	PS	7.430	2.014	3.5	0.05	7.0	1.0000	-
DP/P2-3.1.0-1	INT1	2	PS	7.430	2.014	3.5	0.05	7.0	1.0000	-
DP/P2-3.1.0-1	INT1	EQ	PS	7.430	2.013	3.5	0.05	7.0	1.0000	-
DP/P2-3.1.0-1	INT2	1	PS	7.430	2.013	3.5	0.05	7.0	1.0000	-
DP/P2-3.1.0-1	INT2	2	PS	7.430	2.013	3.5	0.05	7.0	1.0000	-
DP/P2-3.1.0-1	INT2	EQ	PS	7.430	2.013	3.5	0.12	13.0	0.9489	-
DP/P2-3.2.0	FIRST	1	PS	7.264	0.505	0.7	0.05	7.0	1.0000	-
DP/P2-3.2.0	FIRST	2	PS	7.334	1.123	1.9	0.05	7.0	1.0000	-
DP/P2-3.2.0	FIRST	EQ	PS	7.450	2.150	3.4	0.05	7.0	1.0000	-
DP/P2-3.2.0	INT1	1	PS	7.450	2.150	3.4	0.05	7.0	1.0000	-
DP/P2-3.2.0	INT1	2	PS	7.450	2.150	3.4	0.05	7.0	1.0000	-
DP/P2-3.2.0	INT1	EQ	PS	7.450	2.150	3.4	0.05	7.0	1.0000	-
DP/P2-3.2.0	INT2	1	PS	7.450	2.150	3.4	0.05	7.0	1.0000	-
DP/P2-3.2.0	INT2	2	PS	7.450	2.150	3.4	0.05	7.0	1.0000	-
DP/P2-3.2.0	INT2	EQ	PS	7.450	2.150	3.4	0.12	12.8	0.9461	-
DP/P2-3.3.0	FIRST	1	PS	7.278	0.611	0.9	0.05	7.0	1.0000	-
DP/P2-3.3.0	FIRST	2	PS	7.361	1.349	2.6	0.05	7.0	1.0000	-
DP/P2-3.3.0	FIRST	EQ	PS	7.495	2.569	4.3	0.05	7.0	1.0000	-
DP/P2-3.3.0	INT1	1	PS	7.495	2.568	4.3	0.05	7.0	1.0000	-
DP/P2-3.3.0	INT1	2	PS	7.495	2.568	4.3	0.05	7.0	1.0000	-
DP/P2-3.3.0	INT1	EQ	PS	7.495	2.569	4.3	0.05	7.0	1.0000	-
DP/P2-3.3.0	INT2	1	PS	7.495	2.568	4.3	0.05	7.0	1.0000	-
DP/P2-3.3.0	INT2	2	PS	7.495	2.568	4.3	0.05	7.0	1.0000	-
DP/P2-3.3.0	INT2	EQ	PS	7.495	2.569	4.3	0.12	11.1	0.9136	-
DP/P3-4.1.0	FIRST	1	PS	7.282	0.461	1.0	0.05	7.0	1.0000	-
DP/P3-4.1.0	FIRST	2	PS	7.360	0.993	2.6	0.05	7.0	1.0000	-
DP/P3-4.1.0	FIRST	EQ	PS	7.471	1.688	3.1	0.05	7.0	1.0000	-
DP/P3-4.1.0	INT1	1	PS	7.471	1.688	3.1	0.05	7.0	1.0000	-
DP/P3-4.1.0	INT1	2	PS	7.471	1.688	3.1	0.05	7.0	1.0000	-
DP/P3-4.1.0	INT1	EQ	PS	7.471	1.688	3.1	0.05	7.0	1.0000	-
DP/P3-4.1.0	INT2	1	PS	7.471	1.688	3.1	0.05	7.0	1.0000	-
DP/P3-4.1.0	INT2	2	PS	7.471	1.688	3.1	0.05	7.0	1.0000	-
DP/P3-4.1.0	INT2	EQ	PS	7.471	1.688	3.1	0.12	13.4	0.9570	-
DP/P3-4.2.0	FIRST	1	PS	7.286	0.506	1.0	0.05	7.0	1.0000	-
DP/P3-4.2.0	FIRST	2	PS	7.370	1.068	2.5	0.05	7.0	1.0000	-
DP/P3-4.2.0	FIRST	EQ	PS	7.487	1.799	3.1	0.05	7.0	1.0000	-
DP/P3-4.2.0	INT1	1	PS	7.487	1.799	3.1	0.05	7.0	1.0000	-
DP/P3-4.2.0	INT1	2	PS	7.487	1.799	3.1	0.05	7.0	1.0000	-
DP/P3-4.2.0	INT1	EQ	PS	7.487	1.799	3.1	0.05	7.0	1.0000	-
DP/P3-4.2.0	INT2	1	PS	7.487	1.799	3.1	0.05	7.0	1.0000	-
DP/P3-4.2.0	INT2	2	PS	7.487	1.799	3.1	0.05	7.0	1.0000	-
DP/P3-4.2.0	INT2	EQ	PS	7.487	1.799	3.1	0.12	13.2	0.9530	-
DP/P3-4.3.0	FIRST	1	PS	7.306	0.622	1.7	0.05	7.0	1.0000	-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DP/P3-4.3.0	FIRST	2	PS	7.397	1.306	4.2	0.05	7.0	1.0000		-
DP/P3-4.3.0	FIRST	EQ	PS	7.545	2.263	5.4	0.05	7.0	1.0000		-
DP/P3-4.3.0	INT1	1	PS	7.544	2.261	5.4	0.05	7.0	1.0000		-
DP/P3-4.3.0	INT1	2	PS	7.544	2.261	5.4	0.05	7.0	1.0000		-
DP/P3-4.3.0	INT1	EQ	PS	7.545	2.263	5.4	0.05	7.0	1.0000		-
DP/P3-4.3.0	INT2	1	PS	7.544	2.262	5.4	0.05	7.0	1.0000		-
DP/P3-4.3.0	INT2	2	PS	7.544	2.262	5.4	0.05	7.0	1.0000		-
DP/P3-4.3.0	INT2	EQ	PS	7.545	2.263	5.4	0.12	9.7	0.8817		-
DP/P3-4.4.0	FIRST	1	PS	7.319	0.724	2.0	0.05	7.0	1.0000		-
DP/P3-4.4.0	FIRST	2	PS	7.419	1.516	4.8	0.05	7.0	1.0000		-
DP/P3-4.4.0	FIRST	EQ	PS	7.583	2.612	6.1	0.05	7.0	1.0000		-
DP/P3-4.4.0	INT1	1	PS	7.582	2.601	6.0	0.05	7.0	1.0000		-
DP/P3-4.4.0	INT1	2	PS	7.582	2.601	6.0	0.05	7.0	1.0000		-
DP/P3-4.4.0	INT1	EQ	PS	7.583	2.612	6.1	0.05	7.0	1.0000		-
DP/P3-4.4.0	INT2	1	PS	7.582	2.605	6.1	0.05	7.0	1.0000		-
DP/P3-4.4.0	INT2	2	PS	7.582	2.605	6.1	0.05	7.0	1.0000		-
DP/P3-4.4.0	INT2	EQ	PS	7.583	2.612	6.1	0.12	8.2	0.8460		-
DP/P3-4.5.0	FIRST	1	PS	7.321	0.735	2.1	0.05	7.0	1.0000		-
DP/P3-4.5.0	FIRST	2	PS	7.424	1.553	4.9	0.05	7.0	1.0000		-
DP/P3-4.5.0	FIRST	EQ	PS	7.600	2.707	6.3	0.05	7.0	1.0000		-
DP/P3-4.5.0	INT1	1	PS	7.600	2.693	6.2	0.05	7.0	1.0000		-
DP/P3-4.5.0	INT1	2	PS	7.600	2.693	6.2	0.05	7.0	1.0000		-
DP/P3-4.5.0	INT1	EQ	PS	7.600	2.707	6.3	0.05	7.0	1.0000		-
DP/P3-4.5.0	INT2	1	PS	7.599	2.699	6.2	0.05	7.0	1.0000		-
DP/P3-4.5.0	INT2	2	PS	7.599	2.699	6.2	0.05	7.0	1.0000		-
DP/P3-4.5.0	INT2	EQ	PS	7.600	2.707	6.3	0.12	7.8	0.8358		-
DP/P3-4.6.0	FIRST	1	PS	7.326	0.750	2.0	0.05	7.0	1.0000		-
DP/P3-4.6.0	FIRST	2	PS	7.433	1.586	4.8	0.05	7.0	1.0000		-
DP/P3-4.6.0	FIRST	EQ	PS	7.613	2.765	6.2	0.05	7.0	1.0000		-
DP/P3-4.6.0	INT1	1	PS	7.613	2.751	6.1	0.05	7.0	1.0000		-
DP/P3-4.6.0	INT1	2	PS	7.613	2.751	6.1	0.05	7.0	1.0000		-
DP/P3-4.6.0	INT1	EQ	PS	7.613	2.765	6.2	0.05	7.0	1.0000		-
DP/P3-4.6.0	INT2	1	PS	7.613	2.757	6.1	0.05	7.0	1.0000		-
DP/P3-4.6.0	INT2	2	PS	7.613	2.757	6.1	0.05	7.0	1.0000		-
DP/P3-4.6.0	INT2	EQ	PS	7.613	2.765	6.2	0.12	7.7	0.8335		-
DP/P4-5.1.0	FIRST	1	PS	7.361	0.613	0.0	0.05	7.0	1.0000		-
DP/P4-5.1.0	FIRST	2	PS	7.529	1.250	0.0	0.05	7.0	1.0000		-
DP/P4-5.1.0	FIRST	EQ	PS	7.722	1.941	0.7	0.12	15.1	0.9849		-
DP/P4-5.2.0	FIRST	1	PS	7.385	0.726	1.0	0.05	7.0	1.0000		-
DP/P4-5.2.0	FIRST	2	PS	7.566	1.490	2.8	0.05	7.0	1.0000		-
DP/P4-5.2.0	FIRST	EQ	PS	7.804	2.383	3.0	0.12	11.7	0.9256		-
DP/P4-5.3.0	FIRST	1	PS	7.385	0.727	1.0	0.05	7.0	1.0000		-
DP/P4-5.3.0	FIRST	2	PS	7.569	1.500	2.9	0.05	7.0	1.0000		-
DP/P4-5.3.0	FIRST	EQ	PS	7.814	2.422	3.0	0.12	11.6	0.9233		-
DP/P4-5.4.0	FIRST	1	PS	7.387	0.744	1.1	0.05	7.0	1.0000		-
DP/P4-5.4.0	FIRST	2	PS	7.575	1.536	3.1	0.05	7.0	1.0000		-
DP/P4-5.4.0	FIRST	EQ	PS	7.834	2.514	3.2	0.12	11.3	0.9160		-
DP/P4-5.5.0	FIRST	1	PS	7.388	0.745	1.2	0.05	7.0	1.0000		-
DP/P4-5.5.0	FIRST	2	PS	7.576	1.539	3.1	0.05	7.0	1.0000		-
DP/P4-5.5.0	FIRST	EQ	PS	7.836	2.519	3.2	0.12	11.2	0.9152		-
DP/P4-5.6.0	FIRST	1	PS	7.390	0.750	1.1	0.05	7.0	1.0000		-
DP/P4-5.6.0	FIRST	2	PS	7.581	1.554	3.1	0.05	7.0	1.0000		-
DP/P4-5.6.0	FIRST	EQ	PS	7.844	2.544	3.2	0.12	11.2	0.9140		-
DP/P4-5.7.0	FIRST	1	PS	7.394	0.773	1.0	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DP/P4-5.7.0	FIRST	2	PS	7.589	1.590	3.0	0.05	7.0	1.0000		-
DP/P4-5.7.0	FIRST	EQ	PS	7.856	2.597	3.2	0.12	11.1	0.9116		-
DP/P5-6.1.0	FIRST	1	PS	7.362	0.528	0.0	0.05	7.0	1.0000		-
DP/P5-6.1.0	FIRST	2	PS	7.535	1.060	0.0	0.05	7.0	1.0000		-
DP/P5-6.1.0	FIRST	EQ	SB	7.737	1.634	-0.0	0.12	16.0	1.0000		-
DP/P5-6.2.0	FIRST	1	PS	7.364	0.537	0.3	0.05	7.0	1.0000		-
DP/P5-6.2.0	FIRST	2	PS	7.539	1.075	0.4	0.05	7.0	1.0000		-
DP/P5-6.2.0	FIRST	EQ	PS	7.744	1.656	0.2	0.12	16.0	1.0000		-
DP/P5-6.3.0	FIRST	1	PS	7.364	0.539	0.3	0.05	7.0	1.0000		-
DP/P5-6.3.0	FIRST	2	PS	7.541	1.082	0.4	0.05	7.0	1.0000		-
DP/P5-6.3.0	FIRST	EQ	PS	7.753	1.687	0.2	0.12	16.0	1.0000		-
DP/P5-6.4.0	FIRST	1	PS	7.365	0.540	0.4	0.05	7.0	1.0000		-
DP/P5-6.4.0	FIRST	2	PS	7.542	1.086	0.5	0.05	7.0	1.0000		-
DP/P5-6.4.0	FIRST	EQ	PS	7.755	1.692	0.2	0.12	16.0	1.0000		-
DP/P5-6.5.0	FIRST	1	PS	7.368	0.551	0.4	0.05	7.0	1.0000		-
DP/P5-6.5.0	FIRST	2	PS	7.549	1.106	0.5	0.05	7.0	1.0000		-
DP/P5-6.5.0	FIRST	EQ	PS	7.765	1.722	0.2	0.12	16.0	1.0000		-
DP/P6-7.1.0-1	FIRST	1	PS	7.249	0.128	0.0	0.05	7.0	1.0000		-
DP/P6-7.1.0-1	FIRST	2	PS	7.299	0.257	0.0	0.05	7.0	1.0000		-
DP/P6-7.1.0-1	FIRST	EQ	PS	7.351	0.390	0.0	0.12	16.0	1.0000		-
DP/P6-7.2.0	FIRST	1	PS	7.400	0.520	0.4	0.05	7.0	1.0000		-
DP/P6-7.2.0	FIRST	2	PS	7.611	1.153	1.1	0.05	7.0	1.0000		-
DP/P6-7.2.0	FIRST	EQ	PS	7.884	1.866	0.2	0.12	15.3	0.9894		-
DP/P6-7.3.0	FIRST	1	PS	7.400	0.520	0.4	0.05	7.0	1.0000		-
DP/P6-7.3.0	FIRST	2	PS	7.611	1.153	1.1	0.05	7.0	1.0000		-
DP/P6-7.3.0	FIRST	EQ	PS	7.884	1.866	0.2	0.12	15.3	0.9894		-
DP/P6-7.4.0	FIRST	1	PS	7.400	0.522	0.5	0.05	7.0	1.0000		-
DP/P6-7.4.0	FIRST	2	PS	7.611	1.156	1.2	0.05	7.0	1.0000		-
DP/P6-7.4.0	FIRST	EQ	PS	7.886	1.871	0.3	0.12	15.3	0.9884		-
DP/P6-7.5.0	FIRST	1	PS	7.402	0.527	0.5	0.05	7.0	1.0000		-
DP/P6-7.5.0	FIRST	2	PS	7.615	1.166	1.2	0.05	7.0	1.0000		-
DP/P6-7.5.0	FIRST	EQ	PS	7.892	1.887	0.3	0.12	15.2	0.9878		-
DP/P7-8.1.0-1	FIRST	1	PS	7.249	0.128	0.0	0.05	7.0	1.0000		-
DP/P7-8.1.0-1	FIRST	2	PS	7.299	0.257	0.0	0.05	7.0	1.0000		-
DP/P7-8.1.0-1	FIRST	EQ	PS	7.351	0.390	0.0	0.12	16.0	1.0000		-
DP/P7-8.2.0	FIRST	1	PS	7.388	0.357	0.4	0.05	7.0	1.0000		-
DP/P7-8.2.0	FIRST	2	PS	7.588	0.723	0.5	0.05	7.0	1.0000		-
DP/P7-8.2.0	FIRST	EQ	PS	7.818	1.124	0.2	0.12	16.0	1.0000		-
DP/P7-8.3.0	FIRST	1	PS	7.388	0.357	0.4	0.05	7.0	1.0000		-
DP/P7-8.3.0	FIRST	2	PS	7.588	0.723	0.5	0.05	7.0	1.0000		-
DP/P7-8.3.0	FIRST	EQ	PS	7.818	1.124	0.2	0.12	16.0	1.0000		-
DP/P7-8.4.0	FIRST	1	PS	7.389	0.358	0.5	0.05	7.0	1.0000		-
DP/P7-8.4.0	FIRST	2	PS	7.589	0.725	0.6	0.05	7.0	1.0000		-
DP/P7-8.4.0	FIRST	EQ	PS	7.820	1.127	0.2	0.12	16.0	1.0000		-
DP/P7-8.5.0	FIRST	1	PS	7.389	0.358	0.5	0.05	7.0	1.0000		-
DP/P7-8.5.0	FIRST	2	PS	7.589	0.725	0.6	0.05	7.0	1.0000		-
DP/P7-8.5.0	FIRST	EQ	PS	7.820	1.127	0.2	0.12	16.0	1.0000		-
DP/P7-8.6.0	FIRST	1	PS	7.393	0.365	0.5	0.05	7.0	1.0000		-
DP/P7-8.6.0	FIRST	2	PS	7.598	0.739	0.5	0.05	7.0	1.0000		-
DP/P7-8.6.0	FIRST	EQ	PS	7.834	1.148	0.2	0.12	16.0	1.0000		-
DP/P8-9.1.0-1	FIRST	1	PS	7.357	0.308	0.0	0.05	7.0	1.0000		-
DP/P8-9.1.0-1	FIRST	2	PS	7.523	0.618	0.0	0.05	7.0	1.0000		-
DP/P8-9.1.0-1	FIRST	EQ	PS	7.716	0.964	0.0	0.12	16.0	1.0000		-
DP/P8-9.2.0	FIRST	1	PS	7.388	0.357	0.4	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DP/P8-9.2.0	FIRST	2	PS	7.588	0.723	0.5	0.05	7.0	1.0000		-
DP/P8-9.2.0	FIRST	EQ	PS	7.818	1.124	0.2	0.12	16.0	1.0000		-
DP/P8-9.3.0	FIRST	1	PS	7.389	0.358	0.4	0.05	7.0	1.0000		-
DP/P8-9.3.0	FIRST	2	PS	7.590	0.726	0.5	0.05	7.0	1.0000		-
DP/P8-9.3.0	FIRST	EQ	PS	7.825	1.132	0.2	0.12	16.0	1.0000		-
DP/P8-9.4.0	FIRST	1	PS	7.389	0.359	0.5	0.05	7.0	1.0000		-
DP/P8-9.4.0	FIRST	2	PS	7.591	0.728	0.6	0.05	7.0	1.0000		-
DP/P8-9.4.0	FIRST	EQ	PS	7.827	1.134	0.2	0.12	16.0	1.0000		-
DP/P8-9.5.0	FIRST	1	PS	7.389	0.359	0.5	0.05	7.0	1.0000		-
DP/P8-9.5.0	FIRST	2	PS	7.591	0.728	0.6	0.05	7.0	1.0000		-
DP/P8-9.5.0	FIRST	EQ	PS	7.827	1.134	0.2	0.12	16.0	1.0000		-
DP/P8-9.6.0	FIRST	1	PS	7.394	0.366	0.5	0.05	7.0	1.0000		-
DP/P8-9.6.0	FIRST	2	PS	7.600	0.743	0.5	0.05	7.0	1.0000		-
DP/P8-9.6.0	FIRST	EQ	PS	7.841	1.156	0.2	0.12	16.0	1.0000		-
DP/P9-10.1.0.	FIRST	1	PS	7.386	0.236	0.0	0.05	7.0	1.0000		-
DP/P9-10.1.0.	FIRST	2	PS	7.583	0.468	1.5	0.05	7.0	1.0000		-
DP/P9-10.1.0.	FIRST	EQ	PS	7.837	0.735	0.0	0.12	16.0	1.0000		-
DP/P9-10.2.0	FIRST	1	PS	7.441	0.316	1.9	0.05	7.0	1.0000		-
DP/P9-10.2.0	FIRST	2	PS	7.693	0.601	3.6	0.05	7.0	1.0000		-
DP/P9-10.2.0	FIRST	EQ	PS	8.040	0.930	1.8	0.12	14.6	0.9768		-
DP/P9-10.3.0	FIRST	1	PS	7.442	0.316	1.9	0.05	7.0	1.0000		-
DP/P9-10.3.0	FIRST	2	PS	7.695	0.604	3.6	0.05	7.0	1.0000		-
DP/P9-10.3.0	FIRST	EQ	PS	8.049	0.939	1.8	0.12	14.5	0.9761		-
DP/P9-10.4.0	FIRST	1	PS	7.449	0.322	2.0	0.05	7.0	1.0000		-
DP/P9-10.4.0	FIRST	2	PS	7.708	0.608	3.9	0.05	7.0	1.0000		-
DP/P9-10.4.0	FIRST	EQ	PS	8.073	0.946	2.2	0.12	14.1	0.9685		-
DP/P9-10.5.0	FIRST	1	PS	7.449	0.323	2.0	0.05	7.0	1.0000		-
DP/P9-10.5.0	FIRST	2	PS	7.709	0.610	4.0	0.05	7.0	1.0000		-
DP/P9-10.5.0	FIRST	EQ	PS	8.075	0.948	2.2	0.12	14.0	0.9679		-
DP/P9-10.6.0	FIRST	1	PS	7.456	0.318	2.0	0.05	7.0	1.0000		-
DP/P9-10.6.0	FIRST	2	PS	7.721	0.611	3.9	0.05	7.0	1.0000		-
DP/P9-10.6.0	FIRST	EQ	PS	8.094	0.954	2.2	0.12	14.0	0.9672		-
DP/P9-10.7.0	FIRST	1	PS	7.460	0.329	1.9	0.05	7.0	1.0000		-
DP/P9-10.7.0	FIRST	2	PS	7.730	0.626	3.8	0.05	7.0	1.0000		-
DP/P9-10.7.0	FIRST	EQ	PS	8.108	0.973	2.1	0.12	14.0	0.9666		-
DP/P10-11.1..	FIRST	1	PS	7.422	-0.022	1.2	0.05	7.0	1.0000		-
DP/P10-11.1..	FIRST	2	PS	7.647	-0.057	3.5	0.05	7.0	1.0000		-
DP/P10-11.1..	FIRST	EQ	PS	7.986	-0.085	0.0	0.12	16.0	1.0000		-
DP/P10-11.2.0	FIRST	1	PS	7.409	-0.019	5.8	0.05	7.0	1.0000		-
DP/P10-11.2.0	FIRST	2	PS	7.645	-0.062	8.2	0.05	7.0	1.0000		-
DP/P10-11.2.0	FIRST	EQ	PS	8.111	-0.080	4.6	0.05	7.0	1.0000		-
DP/P10-11.2.0	CROSS	1	PS	8.155	-0.084	3.1	0.05	7.0	1.0000		409
DP/P10-11.2.0	CROSS	2	PS	8.155	-0.084	3.1	0.05	7.0	1.0000		409
DP/P10-11.2.0	CROSS	EQ	PS	8.155	-0.084	3.1	0.12	13.6	0.9597		409
DP/P10-11.3.0	FIRST	1	PS	7.415	-0.017	5.9	0.05	7.0	1.0000		-
DP/P10-11.3.0	FIRST	2	PS	7.655	-0.058	8.4	0.05	7.0	1.0000		-
DP/P10-11.3.0	FIRST	EQ	PS	8.132	-0.074	4.9	0.05	7.0	1.0000		-
DP/P10-11.3.0	CROSS	1	PS	8.178	-0.079	3.5	0.05	7.0	1.0000		411
DP/P10-11.3.0	CROSS	2	PS	8.178	-0.079	3.5	0.05	7.0	1.0000		411
DP/P10-11.3.0	CROSS	EQ	PS	8.178	-0.079	3.5	0.12	13.1	0.9507		411
DP/P10-11.4.0	FIRST	1	PS	7.439	-0.018	5.4	0.05	7.0	1.0000		-
DP/P10-11.4.0	FIRST	2	PS	7.690	-0.061	8.2	0.05	7.0	1.0000		-
DP/P10-11.4.0	FIRST	EQ	PS	8.183	-0.082	4.7	0.05	7.0	1.0000		-
DP/P10-11.4.0	CROSS	1	PS	8.226	-0.087	3.3	0.05	7.0	1.0000		408

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DP/P10-11.4.0	CROSS	2	PS	8.226	-0.087	3.3	0.05	7.0	1.0000		408
DP/P10-11.4.0	CROSS	EQ	PS	8.226	-0.087	3.3	0.12	13.1	0.9508		408
DP/P11-12.1..	FIRST	1	PS	7.437	-0.226	1.7	0.05	7.0	1.0000		-
DP/P11-12.1..	FIRST	2	PS	7.654	-0.495	5.4	0.05	7.0	1.0000		-
DP/P11-12.1..	FIRST	EQ	PS	8.076	-0.820	0.0	0.12	16.0	1.0000		-
DP/P11-12.2.0	FIRST	1	PS	7.427	-0.359	6.9	0.05	7.0	1.0000		-
DP/P11-12.2.0	FIRST	2	PS	7.644	-0.731	10.8	0.05	6.8	0.9913		-
DP/P11-12.2.0	FIRST	EQ	PS	8.218	-1.130	7.5	0.05	7.0	1.0000		-
DP/P11-12.2.0	CROSS	1	PS	8.285	-1.134	5.8	0.05	7.0	1.0000		428
DP/P11-12.2.0	CROSS	2	PS	8.285	-1.134	5.8	0.05	7.0	1.0000		428
DP/P11-12.2.0	CROSS	EQ	PS	8.285	-1.134	5.8	0.12	9.8	0.8846		428
DP/P11-12.3.0	FIRST	1	PS	7.460	-0.367	6.2	0.05	7.0	1.0000		-
DP/P11-12.3.0	FIRST	2	PS	7.683	-0.760	10.6	0.05	6.8	0.9931		-
DP/P11-12.3.0	FIRST	EQ	PS	8.286	-1.177	7.1	0.05	7.0	1.0000		-
DP/P11-12.3.0	CROSS	1	PS	8.347	-1.182	5.5	0.05	7.0	1.0000		422
DP/P11-12.3.0	CROSS	2	PS	8.347	-1.182	5.5	0.05	7.0	1.0000		422
DP/P11-12.3.0	CROSS	EQ	PS	8.347	-1.182	5.5	0.12	9.9	0.8879		422
DP/P12-13.1..	FIRST	1	PS	7.307	-0.194	1.3	0.05	7.0	1.0000		-
DP/P12-13.1..	FIRST	2	PS	7.413	-0.418	3.3	0.05	7.0	1.0000		-
DP/P12-13.1..	FIRST	EQ	PS	7.577	-0.752	4.4	0.12	13.9	0.9654		-
DP/P12-13.2..	FIRST	1	PS	7.363	-0.344	1.6	0.05	7.0	1.0000		-
DP/P12-13.2..	FIRST	2	PS	7.521	-0.722	4.1	0.05	7.0	1.0000		-
DP/P12-13.2..	FIRST	EQ	PS	7.791	-1.235	3.9	0.12	13.9	0.9647		-
DP/P12-13.3..	FIRST	1	PS	7.403	-0.471	3.9	0.05	7.0	1.0000		-
DP/P12-13.3..	FIRST	2	PS	7.555	-0.994	8.4	0.05	7.0	1.0000		-
DP/P12-13.3..	FIRST	EQ	PS	7.876	-1.697	9.7	0.12	7.1	0.6625		-
DP/P12-13.4..	FIRST	1	PS	7.403	-0.471	3.9	0.05	7.0	1.0000		-
DP/P12-13.4..	FIRST	2	PS	7.555	-0.994	8.4	0.05	7.0	1.0000		-
DP/P12-13.4..	FIRST	EQ	PS	7.876	-1.697	9.7	0.12	7.1	0.6625		-
DP/P13-14.1..	FIRST	1	PS	7.316	-0.374	1.1	0.05	7.0	1.0000		-
DP/P13-14.1..	FIRST	2	PS	7.440	-0.799	2.6	0.05	7.0	1.0000		-
DP/P13-14.1..	FIRST	EQ	PS	7.588	-1.457	6.7	0.05	7.0	1.0000		-
DP/P13-14.1..	CROSS	1	PS	7.652	-1.562	5.5	0.05	7.0	1.0000		1417
DP/P13-14.1..	CROSS	2	PS	7.725	-1.675	3.5	0.05	7.0	1.0000		1417
DP/P13-14.1..	CROSS	EQ	PS	7.725	-1.675	3.5	0.12	12.9	0.9468		1417
DP/P13-14.2.0	FIRST	1	PS	7.396	-0.571	1.2	0.05	7.0	1.0000		-
DP/P13-14.2.0	FIRST	2	PS	7.594	-1.244	3.9	0.05	7.0	1.0000		-
DP/P13-14.2.0	FIRST	EQ	PS	7.896	-2.168	5.9	0.05	7.0	1.0000		-
DP/P13-14.2.0	CROSS	1	PS	7.967	-2.292	4.4	0.05	7.0	1.0000		1334
DP/P13-14.2.0	CROSS	2	PS	8.032	-2.408	2.6	0.05	7.0	1.0000		1334
DP/P13-14.2.0	CROSS	EQ	PS	8.032	-2.408	2.6	0.12	12.4	0.9376		1334
DP/P13-14.3..	FIRST	1	PS	7.389	-0.609	2.8	0.05	7.0	1.0000		-
DP/P13-14.3..	FIRST	2	PS	7.568	-1.270	5.8	0.05	7.0	1.0000		-
DP/P13-14.3..	FIRST	EQ	PS	7.845	-2.223	8.5	0.05	6.9	0.9967		-
DP/P13-14.3..	CROSS	1	PS	7.924	-2.342	7.2	0.05	7.0	1.0000		1412
DP/P13-14.3..	CROSS	2	PS	7.997	-2.445	5.7	0.05	7.0	1.0000		1412
DP/P13-14.3..	CROSS	EQ	PS	7.997	-2.445	5.7	0.12	9.2	0.8702		1412
DP/P13-14.4..	FIRST	1	PS	7.415	-0.688	2.4	0.05	7.0	1.0000		-
DP/P13-14.4..	FIRST	2	PS	7.624	-1.429	5.4	0.05	7.0	1.0000		-
DP/P13-14.4..	FIRST	EQ	PS	7.935	-2.454	8.1	0.05	6.9	0.9950		-
DP/P13-14.4..	CROSS	1	PS	8.012	-2.576	6.8	0.05	7.0	1.0000		1384
DP/P13-14.4..	CROSS	2	PS	8.082	-2.678	5.4	0.05	7.0	1.0000		1384
DP/P13-14.4..	CROSS	EQ	PS	8.082	-2.678	5.4	0.12	9.1	0.8677		1384
DP/P14-15.1.0	FIRST	1	PS	7.428	-0.832	0.9	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DP/P14-15.1.0	FIRST	2	PS	7.684	-1.794	2.3	0.05	7.0	1.0000		-
DP/P14-15.1.0	FIRST	EQ	PS	8.147	-3.510	3.4	0.05	7.0	1.0000		-
DP/P14-15.1.0	CROSS	1	PS	8.213	-3.669	1.6	0.05	7.0	1.0000		1231
DP/P14-15.1.0	CROSS	2	PS	8.257	-3.791	0.0	0.05	7.0	1.0000		1231
DP/P14-15.1.0	CROSS	EQ	PS	8.257	-3.791	0.0	0.12	16.0	1.0000		1231
DP/P14-15.2.0	FIRST	1	PS	7.451	-0.925	0.7	0.05	7.0	1.0000		-
DP/P14-15.2.0	FIRST	2	PS	7.735	-1.987	2.1	0.05	7.0	1.0000		-
DP/P14-15.2.0	FIRST	EQ	PS	8.241	-3.859	3.2	0.05	7.0	1.0000		-
DP/P14-15.2.0	CROSS	1	PS	8.307	-4.020	1.5	0.05	7.0	1.0000		1216
DP/P14-15.2.0	CROSS	2	PS	8.348	-4.136	0.0	0.05	7.0	1.0000		1216
DP/P14-15.2.0	CROSS	EQ	PS	8.348	-4.136	0.0	0.12	16.0	1.0000		1216
DP/P15-16.1.0	FIRST	1	PS	7.420	-0.924	0.0	0.05	7.0	1.0000		-
DP/P15-16.1.0	FIRST	2	PS	7.678	-2.036	0.0	0.05	7.0	1.0000		-
DP/P15-16.1.0	FIRST	EQ	PS	8.203	-4.393	0.0	0.12	12.6	0.9421		-
DP/P15-16.2.0	FIRST	1	PS	7.420	-0.924	0.0	0.05	7.0	1.0000		-
DP/P15-16.2.0	FIRST	2	PS	7.678	-2.036	0.0	0.05	7.0	1.0000		-
DP/P15-16.2.0	FIRST	EQ	PS	8.203	-4.393	0.0	0.12	12.6	0.9421		-
DP/P16-17.1..	FIRST	1	PS	7.333	-0.653	0.0	0.05	7.0	1.0000		-
DP/P16-17.1..	FIRST	2	PS	7.484	-1.411	0.0	0.05	7.0	1.0000		-
DP/P16-17.1..	FIRST	EQ	PS	7.752	-2.788	0.0	0.12	16.0	1.0000		-
DP/P16-17.2..	FIRST	1	PS	7.333	-0.653	0.0	0.05	7.0	1.0000		-
DP/P16-17.2..	FIRST	2	PS	7.484	-1.411	0.0	0.05	7.0	1.0000		-
DP/P16-17.2..	FIRST	EQ	PS	7.752	-2.788	0.0	0.12	16.0	1.0000		-
DP/P17-18.1..	FIRST	1	PS	7.258	-0.332	0.0	0.05	7.0	1.0000		-
DP/P17-18.1..	FIRST	2	PS	7.320	-0.676	0.0	0.05	7.0	1.0000		-
DP/P17-18.1..	FIRST	EQ	PS	7.398	-1.111	0.0	0.12	16.0	1.0000		-
DP/P1-3.1.0-1	FIRST	1	PS	7.259	0.477	0.7	0.05	7.0	1.0000		-
DP/P1-3.1.0-1	FIRST	2	PS	7.326	1.071	2.0	0.05	7.0	1.0000		-
DP/P1-3.1.0-1	FIRST	EQ	PS	7.454	2.394	4.4	0.05	7.0	1.0000		-
DP/P1-3.1.0-1	INT1	1	PS	7.454	2.395	4.4	0.05	7.0	1.0000		-
DP/P1-3.1.0-1	INT1	2	PS	7.454	2.395	4.4	0.05	7.0	1.0000		-
DP/P1-3.1.0-1	INT1	EQ	PS	7.454	2.394	4.4	0.05	7.0	1.0000		-
DP/P1-3.1.0-1	INT2	1	PS	7.454	2.395	4.4	0.05	7.0	1.0000		-
DP/P1-3.1.0-1	INT2	2	PS	7.454	2.395	4.4	0.05	7.0	1.0000		-
DP/P1-3.1.0-1	INT2	EQ	PS	7.454	2.394	4.4	0.12	11.1	0.9128		-
DP/P1-3.2.0-1	FIRST	1	PS	7.259	0.477	0.7	0.05	7.0	1.0000		-
DP/P1-3.2.0-1	FIRST	2	PS	7.326	1.071	2.0	0.05	7.0	1.0000		-
DP/P1-3.2.0-1	FIRST	EQ	PS	7.454	2.394	4.4	0.05	7.0	1.0000		-
DP/P1-3.2.0-1	INT1	1	PS	7.454	2.395	4.4	0.05	7.0	1.0000		-
DP/P1-3.2.0-1	INT1	2	PS	7.454	2.395	4.4	0.05	7.0	1.0000		-
DP/P1-3.2.0-1	INT1	EQ	PS	7.454	2.394	4.4	0.05	7.0	1.0000		-
DP/P1-3.2.0-1	INT2	1	PS	7.454	2.395	4.4	0.05	7.0	1.0000		-
DP/P1-3.2.0-1	INT2	2	PS	7.454	2.395	4.4	0.05	7.0	1.0000		-
DP/P1-3.2.0-1	INT2	EQ	PS	7.454	2.394	4.4	0.12	11.1	0.9128		-
DP/P1-3.3.0	FIRST	1	PS	7.264	0.509	0.7	0.05	7.0	1.0000		-
DP/P1-3.3.0	FIRST	2	PS	7.337	1.146	1.9	0.05	7.0	1.0000		-
DP/P1-3.3.0	FIRST	EQ	PS	7.477	2.566	4.3	0.05	7.0	1.0000		-
DP/P1-3.3.0	INT1	1	PS	7.478	2.565	4.3	0.05	7.0	1.0000		-
DP/P1-3.3.0	INT1	2	PS	7.478	2.565	4.3	0.05	7.0	1.0000		-
DP/P1-3.3.0	INT1	EQ	PS	7.477	2.566	4.3	0.05	7.0	1.0000		-
DP/P1-3.3.0	INT2	1	PS	7.478	2.565	4.3	0.05	7.0	1.0000		-
DP/P1-3.3.0	INT2	2	PS	7.478	2.565	4.3	0.05	7.0	1.0000		-
DP/P1-3.3.0	INT2	EQ	PS	7.477	2.566	4.3	0.12	10.9	0.9090		-
DP/P1-3.4.0	FIRST	1	PS	7.279	0.615	0.9	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FACSOL	CROSSTM s
DP/P1-3.4.0	FIRST	2	PS	7.364	1.374	2.6	0.05	7.0	1.0000	-
DP/P1-3.4.0	FIRST	EQ	PS	7.527	3.103	5.4	0.05	7.0	1.0000	-
DP/P1-3.4.0	INT1	1	PS	7.530	3.067	5.1	0.05	7.0	1.0000	-
DP/P1-3.4.0	INT1	2	PS	7.530	3.067	5.1	0.05	7.0	1.0000	-
DP/P1-3.4.0	INT1	EQ	PS	7.527	3.103	5.4	0.05	7.0	1.0000	-
DP/P1-3.4.0	INT2	1	PS	7.529	3.070	5.1	0.05	7.0	1.0000	-
DP/P1-3.4.0	INT2	2	PS	7.529	3.070	5.1	0.05	7.0	1.0000	-
DP/P1-3.4.0	INT2	EQ	PS	7.527	3.103	5.4	0.12	9.0	0.8653	-
DP/P2-4.1.0	FIRST	1	PS	7.305	0.689	0.9	0.05	7.0	1.0000	-
DP/P2-4.1.0	FIRST	2	PS	7.409	1.540	3.3	0.05	7.0	1.0000	-
DP/P2-4.1.0	FIRST	EQ	PS	7.601	3.071	5.1	0.05	7.0	1.0000	-
DP/P2-4.1.0	INT1	1	PS	7.603	3.041	4.8	0.05	7.0	1.0000	-
DP/P2-4.1.0	INT1	2	PS	7.603	3.041	4.8	0.05	7.0	1.0000	-
DP/P2-4.1.0	INT1	EQ	PS	7.601	3.071	5.1	0.05	7.0	1.0000	-
DP/P2-4.1.0	INT2	1	PS	7.603	3.044	4.8	0.05	7.0	1.0000	-
DP/P2-4.1.0	INT2	2	PS	7.603	3.044	4.8	0.05	7.0	1.0000	-
DP/P2-4.1.0	INT2	EQ	PS	7.601	3.071	5.1	0.12	10.1	0.8905	-
DP/P2-4.2.0	FIRST	1	PS	7.309	0.731	0.9	0.05	7.0	1.0000	-
DP/P2-4.2.0	FIRST	2	PS	7.420	1.617	3.2	0.05	7.0	1.0000	-
DP/P2-4.2.0	FIRST	EQ	PS	7.621	3.204	5.0	0.05	7.0	1.0000	-
DP/P2-4.2.0	INT1	1	PS	7.623	3.170	4.7	0.05	7.0	1.0000	-
DP/P2-4.2.0	INT1	2	PS	7.623	3.170	4.7	0.05	7.0	1.0000	-
DP/P2-4.2.0	INT1	EQ	PS	7.621	3.204	5.0	0.05	7.0	1.0000	-
DP/P2-4.2.0	INT2	1	PS	7.623	3.173	4.7	0.05	7.0	1.0000	-
DP/P2-4.2.0	INT2	2	PS	7.623	3.173	4.7	0.05	7.0	1.0000	-
DP/P2-4.2.0	INT2	EQ	PS	7.621	3.204	5.0	0.12	9.9	0.8875	-
DP/P2-4.3.0-3	FIRST	1	PS	7.309	0.713	2.1	0.05	7.0	1.0000	-
DP/P2-4.3.0-3	FIRST	2	PS	7.389	1.598	5.9	0.05	7.0	1.0000	-
DP/P2-4.3.0-3	FIRST	EQ	PS	7.575	3.382	8.8	0.05	5.8	0.9542	-
DP/P2-4.3.0-3	INT1	1	PS	7.600	3.239	7.4	0.05	7.0	1.0000	-
DP/P2-4.3.0-3	INT1	2	PS	7.600	3.239	7.4	0.05	7.0	1.0000	-
DP/P2-4.3.0-3	INT1	EQ	PS	7.575	3.382	8.8	0.05	5.8	0.9542	-
DP/P2-4.3.0-3	INT2	1	PS	7.598	3.251	7.5	0.05	7.0	1.0000	-
DP/P2-4.3.0-3	INT2	2	PS	7.598	3.251	7.5	0.05	7.0	1.0000	-
DP/P2-4.3.0-3	INT2	EQ	PS	7.575	3.382	8.8	0.12	5.8	0.6821	-
DP/P3-5.1.0	FIRST	1	PS	7.394	0.810	1.5	0.05	7.0	1.0000	-
DP/P3-5.1.0	FIRST	2	PS	7.568	1.774	4.9	0.05	7.0	1.0000	-
DP/P3-5.1.0	FIRST	EQ	PS	7.890	3.166	4.0	0.05	7.0	1.0000	-
DP/P3-5.1.0	INT1	1	PS	7.891	3.155	3.9	0.05	7.0	1.0000	-
DP/P3-5.1.0	INT1	2	PS	7.891	3.155	3.9	0.05	7.0	1.0000	-
DP/P3-5.1.0	INT1	EQ	PS	7.890	3.166	4.0	0.05	7.0	1.0000	-
DP/P3-5.1.0	INT2	1	PS	7.891	3.160	4.0	0.05	7.0	1.0000	-
DP/P3-5.1.0	INT2	2	PS	7.891	3.160	4.0	0.05	7.0	1.0000	-
DP/P3-5.1.0	INT2	EQ	PS	7.890	3.166	4.0	0.12	8.3	0.8485	-
DP/P3-5.2.0	FIRST	1	PS	7.398	0.864	1.4	0.05	7.0	1.0000	-
DP/P3-5.2.0	FIRST	2	PS	7.579	1.853	4.9	0.05	7.0	1.0000	-
DP/P3-5.2.0	FIRST	EQ	PS	7.909	3.277	4.0	0.05	7.0	1.0000	-
DP/P3-5.2.0	INT1	1	PS	7.909	3.263	3.9	0.05	7.0	1.0000	-
DP/P3-5.2.0	INT1	2	PS	7.909	3.263	3.9	0.05	7.0	1.0000	-
DP/P3-5.2.0	INT1	EQ	PS	7.909	3.277	4.0	0.05	7.0	1.0000	-
DP/P3-5.2.0	INT2	1	PS	7.909	3.269	3.9	0.05	7.0	1.0000	-
DP/P3-5.2.0	INT2	2	PS	7.909	3.269	3.9	0.05	7.0	1.0000	-
DP/P3-5.2.0	INT2	EQ	PS	7.909	3.277	4.0	0.12	8.1	0.8430	-
DP/P3-5.3.0	FIRST	1	PS	7.416	0.975	2.3	0.05	7.0	1.0000	-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DP/P3-5.3.0	FIRST	2	PS	7.585	2.107	7.1	0.05	7.0	1.0000		-
DP/P3-5.3.0	FIRST	EQ	PS	7.972	3.878	7.2	0.05	3.6	0.8489		-
DP/P3-5.3.0	INT1	1	PS	7.976	3.803	6.5	0.05	4.5	0.8967		-
DP/P3-5.3.0	INT1	2	PS	7.976	3.803	6.5	0.05	4.5	0.8967		-
DP/P3-5.3.0	INT1	EQ	PS	7.972	3.878	7.2	0.05	3.6	0.8489		-
DP/P3-5.3.0	INT2	1	PS	7.975	3.827	6.7	0.05	4.3	0.8851		-
DP/P3-5.3.0	INT2	2	PS	7.975	3.827	6.7	0.05	4.3	0.8851		-
DP/P3-5.3.0	INT2	EQ	PS	7.972	3.878	7.2	0.12	3.6	0.6755		-
DP/P3-5.4.0	FIRST	1	PS	7.416	0.977	2.3	0.05	7.0	1.0000		-
DP/P3-5.4.0	FIRST	2	PS	7.588	2.121	7.1	0.05	7.0	1.0000		-
DP/P3-5.4.0	FIRST	EQ	PS	7.987	3.944	7.3	0.05	3.4	0.8355		-
DP/P3-5.4.0	INT1	1	PS	7.991	3.864	6.6	0.05	4.3	0.8874		-
DP/P3-5.4.0	INT1	2	PS	7.991	3.864	6.6	0.05	4.3	0.8874		-
DP/P3-5.4.0	INT1	EQ	PS	7.987	3.944	7.3	0.05	3.4	0.8355		-
DP/P3-5.4.0	INT2	1	PS	7.991	3.890	6.8	0.05	4.1	0.8749		-
DP/P3-5.4.0	INT2	2	PS	7.991	3.890	6.8	0.05	4.1	0.8749		-
DP/P3-5.4.0	INT2	EQ	PS	7.987	3.944	7.3	0.11	3.4	0.6522		-
DP/P4-6.1.0	FIRST	1	PS	7.408	0.745	0.0	0.05	7.0	1.0000		-
DP/P4-6.1.0	FIRST	2	PS	7.631	1.498	0.0	0.05	7.0	1.0000		-
DP/P4-6.1.0	FIRST	EQ	PS	7.900	2.345	1.1	0.12	13.3	0.9541		-
DP/P4-6.2.0	FIRST	1	PS	7.427	0.856	1.8	0.05	7.0	1.0000		-
DP/P4-6.2.0	FIRST	2	PS	7.645	1.739	4.6	0.05	7.0	1.0000		-
DP/P4-6.2.0	FIRST	EQ	PS	7.981	2.821	4.0	0.12	9.3	0.8735		-
DP/P4-6.3.0	FIRST	1	PS	7.428	0.858	1.8	0.05	7.0	1.0000		-
DP/P4-6.3.0	FIRST	2	PS	7.648	1.750	4.6	0.05	7.0	1.0000		-
DP/P4-6.3.0	FIRST	EQ	PS	7.994	2.869	4.0	0.12	9.2	0.8699		-
DP/P4-6.4.0	FIRST	1	PS	7.429	0.875	2.0	0.05	7.0	1.0000		-
DP/P4-6.4.0	FIRST	2	PS	7.652	1.788	4.9	0.05	7.0	1.0000		-
DP/P4-6.4.0	FIRST	EQ	PS	8.017	2.974	4.2	0.12	8.7	0.8593		-
DP/P4-6.5.0	FIRST	1	PS	7.429	0.876	2.1	0.05	7.0	1.0000		-
DP/P4-6.5.0	FIRST	2	PS	7.653	1.791	4.9	0.05	7.0	1.0000		-
DP/P4-6.5.0	FIRST	EQ	PS	8.019	2.980	4.3	0.12	8.7	0.8581		-
DP/P4-6.6.0	FIRST	1	PS	7.433	0.884	2.0	0.05	7.0	1.0000		-
DP/P4-6.6.0	FIRST	2	PS	7.661	1.809	4.9	0.05	7.0	1.0000		-
DP/P4-6.6.0	FIRST	EQ	PS	8.030	3.011	4.2	0.12	8.6	0.8566		-
DP/P4-6.7.0	FIRST	1	PS	7.437	0.908	1.8	0.05	7.0	1.0000		-
DP/P4-6.7.0	FIRST	2	PS	7.670	1.846	4.8	0.05	7.0	1.0000		-
DP/P4-6.7.0	FIRST	EQ	PS	8.043	3.065	4.2	0.12	8.5	0.8541		-
DP/P5-7.1.0	FIRST	1	PS	7.396	0.510	0.0	0.05	7.0	1.0000		-
DP/P5-7.1.0	FIRST	2	PS	7.597	1.124	0.0	0.05	7.0	1.0000		-
DP/P5-7.1.0	FIRST	EQ	PS	7.833	1.785	0.0	0.12	15.9	0.9988		-
DP/P5-7.2.0	FIRST	1	PS	7.400	0.524	0.4	0.05	7.0	1.0000		-
DP/P5-7.2.0	FIRST	2	PS	7.612	1.160	1.1	0.05	7.0	1.0000		-
DP/P5-7.2.0	FIRST	EQ	PS	7.887	1.875	0.2	0.12	15.3	0.9891		-
DP/P5-7.3.0	FIRST	1	PS	7.401	0.526	0.4	0.05	7.0	1.0000		-
DP/P5-7.3.0	FIRST	2	PS	7.615	1.167	1.1	0.05	7.0	1.0000		-
DP/P5-7.3.0	FIRST	EQ	PS	7.898	1.911	0.2	0.12	15.2	0.9879		-
DP/P5-7.4.0	FIRST	1	PS	7.401	0.528	0.5	0.05	7.0	1.0000		-
DP/P5-7.4.0	FIRST	2	PS	7.616	1.170	1.2	0.05	7.0	1.0000		-
DP/P5-7.4.0	FIRST	EQ	PS	7.900	1.917	0.3	0.12	15.2	0.9869		-
DP/P5-7.5.0	FIRST	1	PS	7.404	0.539	0.5	0.05	7.0	1.0000		-
DP/P5-7.5.0	FIRST	2	PS	7.622	1.191	1.1	0.05	7.0	1.0000		-
DP/P5-7.5.0	FIRST	EQ	PS	7.911	1.947	0.3	0.12	15.1	0.9857		-
DP/P6-8.1.0-1	FIRST	1	PS	7.249	0.128	0.0	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FACSOL	CROSSTM s
DP/P6-8.1.0-1	FIRST	2	PS	7.299	0.257	0.0	0.05	7.0	1.0000	-
DP/P6-8.1.0-1	FIRST	EQ	PS	7.351	0.390	0.0	0.12	16.0	1.0000	-
DP/P6-8.2.0	FIRST	1	PS	7.499	0.737	1.4	0.05	7.0	1.0000	-
DP/P6-8.2.0	FIRST	2	PS	7.816	1.494	3.2	0.05	7.0	1.0000	-
DP/P6-8.2.0	FIRST	EQ	PS	8.265	2.415	0.4	0.12	13.1	0.9505	-
DP/P6-8.3.0	FIRST	1	PS	7.499	0.737	1.4	0.05	7.0	1.0000	-
DP/P6-8.3.0	FIRST	2	PS	7.816	1.494	3.2	0.05	7.0	1.0000	-
DP/P6-8.3.0	FIRST	EQ	PS	8.265	2.415	0.4	0.12	13.1	0.9505	-
DP/P6-8.4.0	FIRST	1	PS	7.499	0.740	1.6	0.05	7.0	1.0000	-
DP/P6-8.4.0	FIRST	2	PS	7.817	1.499	3.3	0.05	7.0	1.0000	-
DP/P6-8.4.0	FIRST	EQ	PS	8.269	2.423	0.5	0.12	12.9	0.9482	-
DP/P6-8.5.0	FIRST	1	PS	7.501	0.746	1.5	0.05	7.0	1.0000	-
DP/P6-8.5.0	FIRST	2	PS	7.821	1.509	3.3	0.05	7.0	1.0000	-
DP/P6-8.5.0	FIRST	EQ	PS	8.275	2.438	0.5	0.12	12.8	0.9465	-
DP/P6-8.6.0	FIRST	1	PS	7.506	0.748	1.5	0.05	7.0	1.0000	-
DP/P6-8.6.0	FIRST	2	PS	7.830	1.520	3.2	0.05	7.0	1.0000	-
DP/P6-8.6.0	FIRST	EQ	PS	8.290	2.461	0.5	0.12	12.6	0.9426	-
DP/P7-9.1.0-1	FIRST	1	PS	7.357	0.308	0.0	0.05	7.0	1.0000	-
DP/P7-9.1.0-1	FIRST	2	PS	7.523	0.618	0.0	0.05	7.0	1.0000	-
DP/P7-9.1.0-1	FIRST	EQ	PS	7.716	0.964	0.0	0.12	16.0	1.0000	-
DP/P7-9.2.0	FIRST	1	PS	7.388	0.357	0.4	0.05	7.0	1.0000	-
DP/P7-9.2.0	FIRST	2	PS	7.588	0.723	0.5	0.05	7.0	1.0000	-
DP/P7-9.2.0	FIRST	EQ	PS	7.818	1.124	0.2	0.12	16.0	1.0000	-
DP/P7-9.3.0	FIRST	1	PS	7.389	0.358	0.4	0.05	7.0	1.0000	-
DP/P7-9.3.0	FIRST	2	PS	7.590	0.726	0.5	0.05	7.0	1.0000	-
DP/P7-9.3.0	FIRST	EQ	PS	7.825	1.132	0.2	0.12	16.0	1.0000	-
DP/P7-9.4.0	FIRST	1	PS	7.389	0.359	0.5	0.05	7.0	1.0000	-
DP/P7-9.4.0	FIRST	2	PS	7.591	0.728	0.6	0.05	7.0	1.0000	-
DP/P7-9.4.0	FIRST	EQ	PS	7.827	1.134	0.2	0.12	16.0	1.0000	-
DP/P7-9.5.0	FIRST	1	PS	7.389	0.359	0.5	0.05	7.0	1.0000	-
DP/P7-9.5.0	FIRST	2	PS	7.591	0.728	0.6	0.05	7.0	1.0000	-
DP/P7-9.5.0	FIRST	EQ	PS	7.827	1.134	0.2	0.12	16.0	1.0000	-
DP/P7-9.6.0	FIRST	1	PS	7.394	0.366	0.5	0.05	7.0	1.0000	-
DP/P7-9.6.0	FIRST	2	PS	7.600	0.743	0.5	0.05	7.0	1.0000	-
DP/P7-9.6.0	FIRST	EQ	PS	7.841	1.156	0.2	0.12	16.0	1.0000	-
DP/P8-10.1.0	FIRST	1	PS	7.478	0.409	0.9	0.05	7.0	1.0000	-
DP/P8-10.1.0	FIRST	2	PS	7.771	0.814	3.0	0.05	7.0	1.0000	-
DP/P8-10.1.0	FIRST	EQ	PS	8.184	1.297	0.0	0.12	15.8	0.9963	-
DP/P8-10.2.0	FIRST	1	PS	7.477	0.401	3.3	0.05	7.0	1.0000	-
DP/P8-10.2.0	FIRST	2	PS	7.762	0.810	5.8	0.05	7.0	1.0000	-
DP/P8-10.2.0	FIRST	EQ	PS	8.232	1.322	2.3	0.12	13.2	0.9526	-
DP/P8-10.3.0	FIRST	1	PS	7.477	0.401	3.3	0.05	7.0	1.0000	-
DP/P8-10.3.0	FIRST	2	PS	7.765	0.813	5.8	0.05	7.0	1.0000	-
DP/P8-10.3.0	FIRST	EQ	PS	8.243	1.333	2.4	0.12	13.1	0.9517	-
DP/P8-10.4.0	FIRST	1	PS	7.483	0.406	3.5	0.05	7.0	1.0000	-
DP/P8-10.4.0	FIRST	2	PS	7.774	0.815	6.1	0.05	7.0	1.0000	-
DP/P8-10.4.0	FIRST	EQ	PS	8.267	1.341	2.8	0.12	12.6	0.9418	-
DP/P8-10.5.0	FIRST	1	PS	7.483	0.407	3.6	0.05	7.0	1.0000	-
DP/P8-10.5.0	FIRST	2	PS	7.774	0.817	6.2	0.05	7.0	1.0000	-
DP/P8-10.5.0	FIRST	EQ	PS	8.269	1.344	2.8	0.12	12.5	0.9410	-
DP/P8-10.6.0	FIRST	1	PS	7.491	0.400	3.4	0.05	7.0	1.0000	-
DP/P8-10.6.0	FIRST	2	PS	7.789	0.817	6.0	0.05	7.0	1.0000	-
DP/P8-10.6.0	FIRST	EQ	PS	8.288	1.350	2.8	0.12	12.5	0.9407	-
DP/P8-10.7.0	FIRST	1	PS	7.497	0.411	3.3	0.05	7.0	1.0000	-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DP/P8-10.7.0	FIRST	2	PS	7.800	0.834	5.9	0.05	7.0	1.0000		-
DP/P8-10.7.0	FIRST	EQ	PS	8.304	1.372	2.7	0.12	12.5	0.9402		-
DP/P9-11.1.0	FIRST	1	PS	7.511	0.261	6.1	0.05	7.0	1.0000		-
DP/P9-11.1.0	FIRST	2	PS	7.855	0.415	9.2	0.05	7.0	1.0000		-
DP/P9-11.1.0	FIRST	EQ	PS	8.619	0.621	1.5	0.05	7.0	1.0000		-
DP/P9-11.1.0	CROSS	1	PS	8.646	0.612	0.0	0.05	7.0	1.0000		374
DP/P9-11.1.0	CROSS	2	PS	8.646	0.611	0.0	0.05	7.0	1.0000		374
DP/P9-11.1.0	CROSS	EQ	PS	8.646	0.611	0.0	0.12	14.4	0.9738		374
DP/P9-11.2.0	FIRST	1	PS	7.472	0.209	8.6	0.05	7.0	1.0000		-
DP/P9-11.2.0	FIRST	2	PS	7.833	0.405	11.4	0.05	5.4	0.9354		-
DP/P9-11.2.0	FIRST	EQ	PS	8.679	0.637	5.0	0.05	7.0	1.0000		-
DP/P9-11.2.0	CROSS	1	PS	8.726	0.621	3.3	0.05	7.0	1.0000		393
DP/P9-11.2.0	CROSS	2	PS	8.726	0.621	3.3	0.05	7.0	1.0000		393
DP/P9-11.2.0	CROSS	EQ	PS	8.726	0.621	3.3	0.12	10.7	0.9037		393
DP/P9-11.3.0	FIRST	1	PS	7.473	0.209	8.6	0.05	7.0	1.0000		-
DP/P9-11.3.0	FIRST	2	PS	7.838	0.407	11.3	0.05	5.4	0.9369		-
DP/P9-11.3.0	FIRST	EQ	PS	8.694	0.651	5.0	0.05	7.0	1.0000		-
DP/P9-11.3.0	CROSS	1	PS	8.742	0.635	3.3	0.05	7.0	1.0000		392
DP/P9-11.3.0	CROSS	2	PS	8.742	0.635	3.3	0.05	7.0	1.0000		392
DP/P9-11.3.0	CROSS	EQ	PS	8.742	0.635	3.3	0.12	10.6	0.9022		392
DP/P9-11.4.0	FIRST	1	PS	7.478	0.211	8.7	0.05	7.0	1.0000		-
DP/P9-11.4.0	FIRST	2	PS	7.848	0.412	11.5	0.05	5.2	0.9268		-
DP/P9-11.4.0	FIRST	EQ	PS	8.715	0.663	5.5	0.05	7.0	1.0000		-
DP/P9-11.4.0	CROSS	1	PS	8.766	0.644	3.8	0.05	7.0	1.0000		395
DP/P9-11.4.0	CROSS	2	PS	8.766	0.644	3.8	0.05	7.0	1.0000		395
DP/P9-11.4.0	CROSS	EQ	PS	8.766	0.644	3.8	0.12	10.1	0.8903		395
DP/P9-11.5.0	FIRST	1	PS	7.478	0.214	8.7	0.05	7.0	1.0000		-
DP/P9-11.5.0	FIRST	2	PS	7.848	0.414	11.5	0.05	5.1	0.9256		-
DP/P9-11.5.0	FIRST	EQ	PS	8.716	0.666	5.5	0.05	7.0	1.0000		-
DP/P9-11.5.0	CROSS	1	PS	8.767	0.646	3.8	0.05	7.0	1.0000		395
DP/P9-11.5.0	CROSS	2	PS	8.767	0.646	3.8	0.05	7.0	1.0000		395
DP/P9-11.5.0	CROSS	EQ	PS	8.767	0.646	3.8	0.12	10.0	0.8893		395
DP/P9-11.6.0	FIRST	1	PS	7.512	0.200	8.1	0.05	7.0	1.0000		-
DP/P9-11.6.0	FIRST	2	PS	7.882	0.403	11.4	0.05	5.2	0.9265		-
DP/P9-11.6.0	FIRST	EQ	PS	8.771	0.658	5.2	0.05	7.0	1.0000		-
DP/P9-11.6.0	CROSS	1	PS	8.818	0.639	3.6	0.05	7.0	1.0000		392
DP/P9-11.6.0	CROSS	2	PS	8.818	0.639	3.6	0.05	7.0	1.0000		392
DP/P9-11.6.0	CROSS	EQ	PS	8.818	0.639	3.6	0.12	10.0	0.8898		392
DP/P9-11.7.0	FIRST	1	PS	7.522	0.219	7.8	0.05	7.0	1.0000		-
DP/P9-11.7.0	FIRST	2	PS	7.892	0.421	11.3	0.05	5.2	0.9262		-
DP/P9-11.7.0	FIRST	EQ	PS	8.787	0.675	5.1	0.05	7.0	1.0000		-
DP/P9-11.7.0	CROSS	1	PS	8.834	0.657	3.5	0.05	7.0	1.0000		391
DP/P9-11.7.0	CROSS	2	PS	8.834	0.657	3.5	0.05	7.0	1.0000		391
DP/P9-11.7.0	CROSS	EQ	PS	8.834	0.657	3.5	0.12	10.0	0.8896		391
DP/P10-12.1.0	FIRST	1	PS	7.432	-0.217	8.0	0.05	7.0	1.0000		-
DP/P10-12.1.0	FIRST	2	PS	7.719	-0.452	11.2	0.05	6.1	0.9670		-
DP/P10-12.1.0	FIRST	EQ	PS	8.539	-0.744	3.3	0.05	7.0	1.0000		-
DP/P10-12.1.0	CROSS	1	PS	8.586	-0.752	0.0	0.05	7.0	1.0000		380
DP/P10-12.1.0	CROSS	2	PS	8.586	-0.752	0.0	0.05	7.0	1.0000		380
DP/P10-12.1.0	CROSS	EQ	PS	8.586	-0.752	0.0	0.12	15.0	0.9832		380
DP/P11-13.1..	FIRST	1	PS	7.430	-0.271	3.7	0.05	7.0	1.0000		-
DP/P11-13.1..	FIRST	2	PS	7.610	-0.624	8.7	0.05	7.0	1.0000		-
DP/P11-13.1..	FIRST	EQ	PS	8.036	-1.232	10.5	0.08	6.1	0.5299		-
DP/P11-13.2..	FIRST	1	PS	7.462	-0.426	5.2	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DP/P11-13.2..	FIRST	2	PS	7.690	-0.928	9.9	0.05	7.0	1.0000		-
DP/P11-13.2..	FIRST	EQ	PS	8.314	-1.656	8.5	0.09	7.4	0.6967		-
DP/P16-18.1..	FIRST	1	PS	7.355	-0.802	0.0	0.05	7.0	1.0000		-
DP/P16-18.1..	FIRST	2	PS	7.533	-1.726	0.0	0.05	7.0	1.0000		-
DP/P16-18.1..	FIRST	EQ	PS	7.868	-3.493	0.0	0.12	16.0	1.0000		-
DP/P16-18.2..	FIRST	1	PS	7.355	-0.802	0.0	0.05	7.0	1.0000		-
DP/P16-18.2..	FIRST	2	PS	7.533	-1.726	0.0	0.05	7.0	1.0000		-
DP/P16-18.2..	FIRST	EQ	PS	7.868	-3.493	0.0	0.12	16.0	1.0000		-
DP/P1-4.1.0-1	FIRST	1	PS	7.297	0.665	1.0	0.05	7.0	1.0000		-
DP/P1-4.1.0-1	FIRST	2	PS	7.396	1.491	3.4	0.05	7.0	1.0000		-
DP/P1-4.1.0-1	FIRST	EQ	PS	7.596	3.619	7.2	0.05	7.0	1.0000		-
DP/P1-4.1.0-1	INT1	1	PS	7.612	3.479	5.8	0.05	7.0	1.0000		-
DP/P1-4.1.0-1	INT1	2	PS	7.612	3.479	5.8	0.05	7.0	1.0000		-
DP/P1-4.1.0-1	INT1	EQ	PS	7.596	3.619	7.2	0.05	7.0	1.0000		-
DP/P1-4.1.0-1	INT2	1	PS	7.610	3.490	5.9	0.05	7.0	1.0000		-
DP/P1-4.1.0-1	INT2	2	PS	7.610	3.490	5.9	0.05	7.0	1.0000		-
DP/P1-4.1.0-1	INT2	EQ	PS	7.596	3.619	7.2	0.12	7.1	0.8054		-
DP/P1-4.2.0-1	FIRST	1	PS	7.297	0.665	1.0	0.05	7.0	1.0000		-
DP/P1-4.2.0-1	FIRST	2	PS	7.396	1.491	3.4	0.05	7.0	1.0000		-
DP/P1-4.2.0-1	FIRST	EQ	PS	7.596	3.619	7.2	0.05	7.0	1.0000		-
DP/P1-4.2.0-1	INT1	1	PS	7.612	3.479	5.8	0.05	7.0	1.0000		-
DP/P1-4.2.0-1	INT1	2	PS	7.612	3.479	5.8	0.05	7.0	1.0000		-
DP/P1-4.2.0-1	INT1	EQ	PS	7.596	3.619	7.2	0.05	7.0	1.0000		-
DP/P1-4.2.0-1	INT2	1	PS	7.610	3.490	5.9	0.05	7.0	1.0000		-
DP/P1-4.2.0-1	INT2	2	PS	7.610	3.490	5.9	0.05	7.0	1.0000		-
DP/P1-4.2.0-1	INT2	EQ	PS	7.596	3.619	7.2	0.12	7.1	0.8054		-
DP/P1-4.3.0-2	FIRST	1	PS	7.297	0.665	1.0	0.05	7.0	1.0000		-
DP/P1-4.3.0-2	FIRST	2	PS	7.396	1.491	3.4	0.05	7.0	1.0000		-
DP/P1-4.3.0-2	FIRST	EQ	PS	7.596	3.619	7.2	0.05	7.0	1.0000		-
DP/P1-4.3.0-2	INT1	1	PS	7.612	3.479	5.8	0.05	7.0	1.0000		-
DP/P1-4.3.0-2	INT1	2	PS	7.612	3.479	5.8	0.05	7.0	1.0000		-
DP/P1-4.3.0-2	INT1	EQ	PS	7.596	3.619	7.2	0.05	7.0	1.0000		-
DP/P1-4.3.0-2	INT2	1	PS	7.610	3.490	5.9	0.05	7.0	1.0000		-
DP/P1-4.3.0-2	INT2	2	PS	7.610	3.490	5.9	0.05	7.0	1.0000		-
DP/P1-4.3.0-2	INT2	EQ	PS	7.596	3.619	7.2	0.12	7.1	0.8054		-
DP/P3-6.1.0-2	FIRST	1	PS	7.395	0.836	3.5	0.05	7.0	1.0000		-
DP/P3-6.1.0-2	FIRST	2	PS	7.528	1.839	8.6	0.05	7.0	1.0000		-
DP/P3-6.1.0-2	FIRST	EQ	PS	7.953	3.408	7.2	0.04	4.3	0.8479		-
DP/P3-6.1.0-2	INT1	1	PS	7.967	3.342	6.1	0.05	5.7	0.9497		-
DP/P3-6.1.0-2	INT1	2	PS	7.967	3.342	6.1	0.05	5.7	0.9497		-
DP/P3-6.1.0-2	INT1	EQ	PS	7.953	3.408	7.2	0.04	4.3	0.8479		-
DP/P3-6.1.0-2	INT2	1	PS	7.964	3.361	6.3	0.05	5.4	0.9364		-
DP/P3-6.1.0-2	INT2	2	PS	7.964	3.361	6.3	0.05	5.4	0.9364		-
DP/P3-6.1.0-2	INT2	EQ	PS	7.953	3.408	7.2	0.04	4.3	0.5462		-
DP/P4-7.1.0	FIRST	1	PS	7.443	0.710	0.0	0.05	7.0	1.0000		-
DP/P4-7.1.0	FIRST	2	PS	7.693	1.546	0.0	0.05	7.0	1.0000		-
DP/P4-7.1.0	FIRST	EQ	PS	7.997	2.497	1.1	0.12	12.6	0.9430		-
DP/P4-7.2.0	FIRST	1	PS	7.468	0.817	1.3	0.05	7.0	1.0000		-
DP/P4-7.2.0	FIRST	2	PS	7.710	1.809	5.4	0.05	7.0	1.0000		-
DP/P4-7.2.0	FIRST	EQ	PS	8.120	3.116	5.9	0.12	6.5	0.7982		-
DP/P4-7.3.0	FIRST	1	PS	7.469	0.819	1.3	0.05	7.0	1.0000		-
DP/P4-7.3.0	FIRST	2	PS	7.713	1.820	5.4	0.05	7.0	1.0000		-
DP/P4-7.3.0	FIRST	EQ	PS	8.136	3.173	5.9	0.12	6.3	0.7917		-
DP/P4-7.4.0	FIRST	1	PS	7.470	0.836	1.5	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FACSOL	CROSSTM s
DP/P4-7.4.0	FIRST	2	PS	7.717	1.858	5.6	0.05	7.0	1.0000	-
DP/P4-7.4.0	FIRST	EQ	PS	8.160	3.293	6.2	0.12	5.7	0.7737	-
DP/P4-7.5.0	FIRST	1	PS	7.471	0.837	1.5	0.05	7.0	1.0000	-
DP/P4-7.5.0	FIRST	2	PS	7.718	1.862	5.7	0.05	7.0	1.0000	-
DP/P4-7.5.0	FIRST	EQ	PS	8.161	3.299	6.3	0.12	5.7	0.7717	-
DP/P4-7.6.0	FIRST	1	PS	7.474	0.845	1.5	0.05	7.0	1.0000	-
DP/P4-7.6.0	FIRST	2	PS	7.726	1.880	5.6	0.05	7.0	1.0000	-
DP/P4-7.6.0	FIRST	EQ	PS	8.174	3.331	6.2	0.12	5.6	0.7706	-
DP/P4-7.7.0	FIRST	1	PS	7.478	0.870	1.4	0.05	7.0	1.0000	-
DP/P4-7.7.0	FIRST	2	PS	7.735	1.917	5.5	0.05	7.0	1.0000	-
DP/P4-7.7.0	FIRST	EQ	PS	8.188	3.385	6.2	0.12	5.6	0.7677	-
DP/P5-8.1.0	FIRST	1	PS	7.396	0.510	0.0	0.05	7.0	1.0000	-
DP/P5-8.1.0	FIRST	2	PS	7.597	1.124	0.0	0.05	7.0	1.0000	-
DP/P5-8.1.0	FIRST	EQ	PS	7.833	1.785	0.0	0.12	15.9	0.9988	-
DP/P5-8.2.0	FIRST	1	PS	7.499	0.742	1.4	0.05	7.0	1.0000	-
DP/P5-8.2.0	FIRST	2	PS	7.817	1.501	3.2	0.05	7.0	1.0000	-
DP/P5-8.2.0	FIRST	EQ	PS	8.268	2.424	0.4	0.12	13.0	0.9497	-
DP/P5-8.3.0	FIRST	1	PS	7.500	0.744	1.4	0.05	7.0	1.0000	-
DP/P5-8.3.0	FIRST	2	PS	7.821	1.509	3.2	0.05	7.0	1.0000	-
DP/P5-8.3.0	FIRST	EQ	PS	8.283	2.474	0.4	0.12	12.8	0.9451	-
DP/P5-8.4.0	FIRST	1	PS	7.500	0.746	1.6	0.05	7.0	1.0000	-
DP/P5-8.4.0	FIRST	2	PS	7.822	1.514	3.3	0.05	7.0	1.0000	-
DP/P5-8.4.0	FIRST	EQ	PS	8.287	2.482	0.5	0.12	12.6	0.9428	-
DP/P5-8.5.0	FIRST	1	PS	7.503	0.760	1.5	0.05	7.0	1.0000	-
DP/P5-8.5.0	FIRST	2	PS	7.829	1.535	3.2	0.05	7.0	1.0000	-
DP/P5-8.5.0	FIRST	EQ	PS	8.298	2.513	0.5	0.12	12.5	0.9395	-
DP/P5-8.6.0	FIRST	1	PS	7.508	0.762	1.5	0.05	7.0	1.0000	-
DP/P5-8.6.0	FIRST	2	PS	7.839	1.546	3.2	0.05	7.0	1.0000	-
DP/P5-8.6.0	FIRST	EQ	PS	8.314	2.536	0.5	0.12	12.3	0.9356	-
DP/P6-9.1.0-1	FIRST	1	PS	7.357	0.308	0.0	0.05	7.0	1.0000	-
DP/P6-9.1.0-1	FIRST	2	PS	7.523	0.618	0.0	0.05	7.0	1.0000	-
DP/P6-9.1.0-1	FIRST	EQ	PS	7.716	0.964	0.0	0.12	16.0	1.0000	-
DP/P6-9.2.0	FIRST	1	PS	7.499	0.737	1.4	0.05	7.0	1.0000	-
DP/P6-9.2.0	FIRST	2	PS	7.816	1.494	3.2	0.05	7.0	1.0000	-
DP/P6-9.2.0	FIRST	EQ	PS	8.265	2.415	0.4	0.12	13.1	0.9505	-
DP/P6-9.3.0	FIRST	1	PS	7.499	0.738	1.4	0.05	7.0	1.0000	-
DP/P6-9.3.0	FIRST	2	PS	7.819	1.500	3.2	0.05	7.0	1.0000	-
DP/P6-9.3.0	FIRST	EQ	PS	8.278	2.428	0.4	0.12	12.9	0.9476	-
DP/P6-9.4.0	FIRST	1	PS	7.500	0.741	1.6	0.05	7.0	1.0000	-
DP/P6-9.4.0	FIRST	2	PS	7.820	1.505	3.3	0.05	7.0	1.0000	-
DP/P6-9.4.0	FIRST	EQ	PS	8.281	2.436	0.5	0.12	12.8	0.9453	-
DP/P6-9.5.0	FIRST	1	PS	7.501	0.748	1.5	0.05	7.0	1.0000	-
DP/P6-9.5.0	FIRST	2	PS	7.823	1.516	3.3	0.05	7.0	1.0000	-
DP/P6-9.5.0	FIRST	EQ	PS	8.288	2.452	0.5	0.12	12.7	0.9435	-
DP/P6-9.6.0	FIRST	1	PS	7.506	0.749	1.5	0.05	7.0	1.0000	-
DP/P6-9.6.0	FIRST	2	PS	7.833	1.527	3.2	0.05	7.0	1.0000	-
DP/P6-9.6.0	FIRST	EQ	PS	8.303	2.475	0.5	0.12	12.5	0.9396	-
DP/P7-10.1.0	FIRST	1	PS	7.478	0.409	0.9	0.05	7.0	1.0000	-
DP/P7-10.1.0	FIRST	2	PS	7.771	0.814	3.0	0.05	7.0	1.0000	-
DP/P7-10.1.0	FIRST	EQ	PS	8.184	1.297	0.0	0.12	15.8	0.9963	-
DP/P7-10.2.0	FIRST	1	PS	7.477	0.401	3.3	0.05	7.0	1.0000	-
DP/P7-10.2.0	FIRST	2	PS	7.762	0.810	5.8	0.05	7.0	1.0000	-
DP/P7-10.2.0	FIRST	EQ	PS	8.232	1.322	2.3	0.12	13.2	0.9526	-
DP/P7-10.3.0	FIRST	1	PS	7.477	0.401	3.3	0.05	7.0	1.0000	-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DP/P7-10.3.0	FIRST	2	PS	7.765	0.813	5.8	0.05	7.0	1.0000		-
DP/P7-10.3.0	FIRST	EQ	PS	8.243	1.333	2.4	0.12	13.1	0.9517		-
DP/P7-10.4.0	FIRST	1	PS	7.483	0.406	3.5	0.05	7.0	1.0000		-
DP/P7-10.4.0	FIRST	2	PS	7.774	0.815	6.1	0.05	7.0	1.0000		-
DP/P7-10.4.0	FIRST	EQ	PS	8.267	1.341	2.8	0.12	12.6	0.9418		-
DP/P7-10.5.0	FIRST	1	PS	7.483	0.407	3.6	0.05	7.0	1.0000		-
DP/P7-10.5.0	FIRST	2	PS	7.774	0.817	6.2	0.05	7.0	1.0000		-
DP/P7-10.5.0	FIRST	EQ	PS	8.269	1.344	2.8	0.12	12.5	0.9410		-
DP/P7-10.6.0	FIRST	1	PS	7.491	0.400	3.4	0.05	7.0	1.0000		-
DP/P7-10.6.0	FIRST	2	PS	7.789	0.817	6.0	0.05	7.0	1.0000		-
DP/P7-10.6.0	FIRST	EQ	PS	8.288	1.350	2.8	0.12	12.5	0.9407		-
DP/P7-10.7.0	FIRST	1	PS	7.497	0.411	3.3	0.05	7.0	1.0000		-
DP/P7-10.7.0	FIRST	2	PS	7.800	0.834	5.9	0.05	7.0	1.0000		-
DP/P7-10.7.0	FIRST	EQ	PS	8.304	1.372	2.7	0.12	12.5	0.9402		-
DP/P8-11.1.0	FIRST	1	PS	7.442	0.313	10.0	0.05	7.0	1.0000		-
DP/P8-11.1.0	FIRST	2	PS	7.850	0.639	12.1	0.05	4.2	0.8813		-
DP/P8-11.1.0	FIRST	EQ	PS	8.844	1.028	2.2	0.05	7.0	1.0000		-
DP/P8-11.1.0	CROSS	1	PS	8.878	1.016	0.0	0.05	7.0	1.0000		370
DP/P8-11.1.0	CROSS	2	PS	8.878	1.016	0.0	0.05	7.0	1.0000		370
DP/P8-11.1.0	CROSS	EQ	PS	8.878	1.016	0.0	0.12	13.4	0.9565		370
DP/P8-11.2.0	FIRST	1	PS	7.420	0.274	11.3	0.05	7.0	1.0000		-
DP/P8-11.2.0	FIRST	2	PS	7.814	0.632	14.1	0.05	2.1	0.7376		-
DP/P8-11.2.0	FIRST	EQ	PS	8.872	1.057	6.7	0.05	6.4	0.9781		-
DP/P8-11.2.0	CROSS	1	PS	8.941	1.038	4.6	0.05	7.0	1.0000		396
DP/P8-11.2.0	CROSS	2	PS	8.941	1.038	4.6	0.05	7.0	1.0000		396
DP/P8-11.2.0	CROSS	EQ	PS	8.941	1.038	4.6	0.12	8.4	0.8520		396
DP/P8-11.3.0	FIRST	1	PS	7.420	0.274	11.3	0.05	7.0	1.0000		-
DP/P8-11.3.0	FIRST	2	PS	7.820	0.635	14.0	0.05	2.1	0.7419		-
DP/P8-11.3.0	FIRST	EQ	PS	8.890	1.073	6.7	0.05	6.3	0.9752		-
DP/P8-11.3.0	CROSS	1	PS	8.959	1.055	4.6	0.05	7.0	1.0000		396
DP/P8-11.3.0	CROSS	2	PS	8.959	1.055	4.6	0.05	7.0	1.0000		396
DP/P8-11.3.0	CROSS	EQ	PS	8.959	1.055	4.6	0.12	8.4	0.8501		396
DP/P8-11.4.0	FIRST	1	PS	7.425	0.277	11.4	0.05	7.0	0.9992		-
DP/P8-11.4.0	FIRST	2	PS	7.829	0.640	14.2	0.05	1.9	0.7203		-
DP/P8-11.4.0	FIRST	EQ	PS	8.908	1.084	7.1	0.05	5.8	0.9525		-
DP/P8-11.4.0	CROSS	1	PS	8.981	1.065	5.1	0.05	7.0	1.0000		399
DP/P8-11.4.0	CROSS	2	PS	8.981	1.065	5.1	0.05	7.0	1.0000		399
DP/P8-11.4.0	CROSS	EQ	PS	8.981	1.065	5.1	0.12	7.7	0.8339		399
DP/P8-11.5.0	FIRST	1	PS	7.426	0.279	11.4	0.05	7.0	0.9991		-
DP/P8-11.5.0	FIRST	2	PS	7.829	0.642	14.2	0.05	1.9	0.7180		-
DP/P8-11.5.0	FIRST	EQ	PS	8.909	1.087	7.2	0.05	5.7	0.9507		-
DP/P8-11.5.0	CROSS	1	PS	8.982	1.068	5.1	0.05	7.0	1.0000		399
DP/P8-11.5.0	CROSS	2	PS	8.982	1.068	5.1	0.05	7.0	1.0000		399
DP/P8-11.5.0	CROSS	EQ	PS	8.982	1.068	5.1	0.12	7.7	0.8326		399
DP/P8-11.6.0	FIRST	1	PS	7.474	0.262	10.6	0.05	7.0	1.0000		-
DP/P8-11.6.0	FIRST	2	PS	7.867	0.626	14.0	0.05	2.0	0.7268		-
DP/P8-11.6.0	FIRST	EQ	PS	8.972	1.080	6.7	0.05	6.0	0.9630		-
DP/P8-11.6.0	CROSS	1	PS	9.038	1.062	4.8	0.05	7.0	1.0000		394
DP/P8-11.6.0	CROSS	2	PS	9.038	1.062	4.8	0.05	7.0	1.0000		394
DP/P8-11.6.0	CROSS	EQ	PS	9.038	1.062	4.8	0.12	7.8	0.8366		394
DP/P8-11.7.0	FIRST	1	PS	7.490	0.282	10.3	0.05	7.0	1.0000		-
DP/P8-11.7.0	FIRST	2	PS	7.880	0.646	14.0	0.05	2.0	0.7281		-
DP/P8-11.7.0	FIRST	EQ	PS	8.993	1.101	6.5	0.05	6.1	0.9661		-
DP/P8-11.7.0	CROSS	1	PS	9.057	1.083	4.7	0.05	7.0	1.0000		393

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DP/P8-11.7.0	CROSS	2	PS	9.057	1.083	4.7	0.05	7.0	1.0000		393
DP/P8-11.7.0	CROSS	EQ	PS	9.057	1.083	4.7	0.12	7.9	0.8374		393
DP/P9-12.1.0	FIRST	1	PS	7.429	0.010	11.7	0.05	6.7	0.9879		-
DP/P9-12.1.0	FIRST	2	PS	7.914	0.049	13.6	0.05	2.7	0.7894		-
DP/P9-12.1.0	FIRST	EQ	PS	9.186	-0.081	3.2	0.05	7.0	1.0000		-
DP/P9-12.1.0	CROSS	1	SB	9.231	-0.099	-0.0	0.05	7.0	1.0000		363
DP/P9-12.1.0	CROSS	2	SB	9.231	-0.099	-0.0	0.05	7.0	1.0000		363
DP/P9-12.1.0	CROSS	EQ	SB	9.231	-0.099	-0.0	0.12	12.8	0.9458		363
DP/P4-8.1.0	FIRST	1	PS	7.443	0.710	0.0	0.05	7.0	1.0000		-
DP/P4-8.1.0	FIRST	2	PS	7.693	1.546	0.0	0.05	7.0	1.0000		-
DP/P4-8.1.0	FIRST	EQ	PS	7.997	2.497	1.1	0.12	12.6	0.9430		-
DP/P5-9.1.0	FIRST	1	PS	7.499	0.733	0.0	0.05	7.0	1.0000		-
DP/P5-9.1.0	FIRST	2	PS	7.820	1.482	2.1	0.05	7.0	1.0000		-
DP/P5-9.1.0	FIRST	EQ	SB	8.255	2.393	-0.0	0.12	13.9	0.9655		-
DP/P5-9.2.0	FIRST	1	PS	7.499	0.742	1.4	0.05	7.0	1.0000		-
DP/P5-9.2.0	FIRST	2	PS	7.817	1.501	3.2	0.05	7.0	1.0000		-
DP/P5-9.2.0	FIRST	EQ	PS	8.268	2.424	0.4	0.12	13.0	0.9497		-
DP/P5-9.3.0	FIRST	1	PS	7.500	0.745	1.4	0.05	7.0	1.0000		-
DP/P5-9.3.0	FIRST	2	PS	7.824	1.515	3.2	0.05	7.0	1.0000		-
DP/P5-9.3.0	FIRST	EQ	PS	8.296	2.488	0.4	0.12	12.6	0.9421		-
DP/P5-9.4.0	FIRST	1	PS	7.501	0.747	1.6	0.05	7.0	1.0000		-
DP/P5-9.4.0	FIRST	2	PS	7.825	1.520	3.3	0.05	7.0	1.0000		-
DP/P5-9.4.0	FIRST	EQ	PS	8.300	2.496	0.5	0.12	12.5	0.9397		-
DP/P5-9.5.0	FIRST	1	PS	7.504	0.762	1.5	0.05	7.0	1.0000		-
DP/P5-9.5.0	FIRST	2	PS	7.832	1.541	3.2	0.05	7.0	1.0000		-
DP/P5-9.5.0	FIRST	EQ	PS	8.311	2.527	0.5	0.12	12.3	0.9364		-
DP/P5-9.6.0	FIRST	1	PS	7.509	0.763	1.5	0.05	7.0	1.0000		-
DP/P5-9.6.0	FIRST	2	PS	7.842	1.552	3.2	0.05	7.0	1.0000		-
DP/P5-9.6.0	FIRST	EQ	PS	8.327	2.551	0.5	0.12	12.1	0.9323		-
DP/P6-10.1.0	FIRST	1	PS	7.494	0.536	0.7	0.05	7.0	1.0000		-
DP/P6-10.1.0	FIRST	2	PS	7.812	0.962	2.8	0.05	7.0	1.0000		-
DP/P6-10.1.0	FIRST	EQ	PS	8.251	1.470	0.0	0.12	14.6	0.9771		-
DP/P6-10.2.0	FIRST	1	PS	7.519	0.756	7.0	0.05	7.0	1.0000		-
DP/P6-10.2.0	FIRST	2	PS	7.882	1.600	10.3	0.05	4.9	0.9165		-
DP/P6-10.2.0	FIRST	EQ	PS	8.743	2.695	2.9	0.12	8.6	0.8574		-
DP/P6-10.3.0	FIRST	1	PS	7.519	0.757	7.0	0.05	7.0	1.0000		-
DP/P6-10.3.0	FIRST	2	PS	7.888	1.606	10.3	0.05	5.0	0.9180		-
DP/P6-10.3.0	FIRST	EQ	PS	8.761	2.715	2.9	0.12	8.6	0.8550		-
DP/P7-11.1.0	FIRST	1	PS	7.442	0.313	10.0	0.05	7.0	1.0000		-
DP/P7-11.1.0	FIRST	2	PS	7.850	0.639	12.1	0.05	4.2	0.8813		-
DP/P7-11.1.0	FIRST	EQ	PS	8.844	1.028	2.2	0.05	7.0	1.0000		-
DP/P7-11.1.0	CROSS	1	PS	8.878	1.016	0.0	0.05	7.0	1.0000		370
DP/P7-11.1.0	CROSS	2	PS	8.878	1.016	0.0	0.05	7.0	1.0000		370
DP/P7-11.1.0	CROSS	EQ	PS	8.878	1.016	0.0	0.12	13.4	0.9565		370
DP/P7-11.2.0	FIRST	1	PS	7.420	0.274	11.3	0.05	7.0	1.0000		-
DP/P7-11.2.0	FIRST	2	PS	7.814	0.632	14.1	0.05	2.1	0.7376		-
DP/P7-11.2.0	FIRST	EQ	PS	8.872	1.057	6.7	0.05	6.4	0.9781		-
DP/P7-11.2.0	CROSS	1	PS	8.941	1.038	4.6	0.05	7.0	1.0000		396
DP/P7-11.2.0	CROSS	2	PS	8.941	1.038	4.6	0.05	7.0	1.0000		396
DP/P7-11.2.0	CROSS	EQ	PS	8.941	1.038	4.6	0.12	8.4	0.8520		396
DP/P7-11.3.0	FIRST	1	PS	7.420	0.274	11.3	0.05	7.0	1.0000		-
DP/P7-11.3.0	FIRST	2	PS	7.820	0.635	14.0	0.05	2.1	0.7419		-
DP/P7-11.3.0	FIRST	EQ	PS	8.890	1.073	6.7	0.05	6.3	0.9752		-
DP/P7-11.3.0	CROSS	1	PS	8.959	1.055	4.6	0.05	7.0	1.0000		396

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DP/P7-11.3.0	CROSS	2	PS	8.959	1.055	4.6	0.05	7.0	1.0000		396
DP/P7-11.3.0	CROSS	EQ	PS	8.959	1.055	4.6	0.12	8.4	0.8501		396
DP/P7-11.4.0	FIRST	1	PS	7.425	0.277	11.4	0.05	7.0	0.9992		-
DP/P7-11.4.0	FIRST	2	PS	7.829	0.640	14.2	0.05	1.9	0.7203		-
DP/P7-11.4.0	FIRST	EQ	PS	8.908	1.084	7.1	0.05	5.8	0.9525		-
DP/P7-11.4.0	CROSS	1	PS	8.981	1.065	5.1	0.05	7.0	1.0000		399
DP/P7-11.4.0	CROSS	2	PS	8.981	1.065	5.1	0.05	7.0	1.0000		399
DP/P7-11.4.0	CROSS	EQ	PS	8.981	1.065	5.1	0.12	7.7	0.8339		399
DP/P7-11.5.0	FIRST	1	PS	7.426	0.279	11.4	0.05	7.0	0.9991		-
DP/P7-11.5.0	FIRST	2	PS	7.829	0.642	14.2	0.05	1.9	0.7180		-
DP/P7-11.5.0	FIRST	EQ	PS	8.909	1.087	7.2	0.05	5.7	0.9507		-
DP/P7-11.5.0	CROSS	1	PS	8.982	1.068	5.1	0.05	7.0	1.0000		399
DP/P7-11.5.0	CROSS	2	PS	8.982	1.068	5.1	0.05	7.0	1.0000		399
DP/P7-11.5.0	CROSS	EQ	PS	8.982	1.068	5.1	0.12	7.7	0.8326		399
DP/P7-11.6.0	FIRST	1	PS	7.474	0.262	10.6	0.05	7.0	1.0000		-
DP/P7-11.6.0	FIRST	2	PS	7.867	0.626	14.0	0.05	2.0	0.7268		-
DP/P7-11.6.0	FIRST	EQ	PS	8.972	1.080	6.7	0.05	6.0	0.9630		-
DP/P7-11.6.0	CROSS	1	PS	9.038	1.062	4.8	0.05	7.0	1.0000		394
DP/P7-11.6.0	CROSS	2	PS	9.038	1.062	4.8	0.05	7.0	1.0000		394
DP/P7-11.6.0	CROSS	EQ	PS	9.038	1.062	4.8	0.12	7.8	0.8366		394
DP/P7-11.7.0	FIRST	1	PS	7.490	0.282	10.3	0.05	7.0	1.0000		-
DP/P7-11.7.0	FIRST	2	PS	7.880	0.646	14.0	0.05	2.0	0.7281		-
DP/P7-11.7.0	FIRST	EQ	PS	8.993	1.101	6.5	0.05	6.1	0.9661		-
DP/P7-11.7.0	CROSS	1	PS	9.057	1.083	4.7	0.05	7.0	1.0000		393
DP/P7-11.7.0	CROSS	2	PS	9.057	1.083	4.7	0.05	7.0	1.0000		393
DP/P7-11.7.0	CROSS	EQ	PS	9.057	1.083	4.7	0.12	7.9	0.8374		393
DP/P4-9.1.0	FIRST	1	PS	7.543	0.930	1.1	0.05	7.0	1.0000		-
DP/P4-9.1.0	FIRST	2	PS	7.868	1.911	5.7	0.05	7.0	1.0000		-
DP/P4-9.1.0	FIRST	EQ	PS	8.440	3.155	1.8	0.12	8.1	0.8435		-
DP/P5-10.1.0	FIRST	1	PS	7.575	0.781	2.9	0.05	7.0	1.0000		-
DP/P5-10.1.0	FIRST	2	PS	7.915	1.588	8.2	0.05	7.0	1.0000		-
DP/P5-10.1.0	FIRST	EQ	SB	8.691	2.643	-0.1	0.12	12.0	0.9311		-
DP/P5-10.2.0	FIRST	1	PS	7.521	0.763	6.9	0.05	7.0	1.0000		-
DP/P5-10.2.0	FIRST	2	PS	7.884	1.608	10.3	0.05	4.9	0.9162		-
DP/P5-10.2.0	FIRST	EQ	PS	8.746	2.704	2.9	0.12	8.6	0.8571		-
DP/P6-11.1.0	FIRST	1	PS	7.480	0.458	9.4	0.05	7.0	1.0000		-
DP/P6-11.1.0	FIRST	2	PS	7.897	0.804	12.0	0.05	3.8	0.8589		-
DP/P6-11.1.0	FIRST	EQ	PS	8.921	1.195	2.0	0.05	7.0	1.0000		-
DP/P6-11.1.0	CROSS	1	SB	8.952	1.184	-0.0	0.05	4.2	0.8814		368
DP/P6-11.1.0	CROSS	2	SB	8.952	1.184	-0.0	0.05	4.2	0.8814		368
DP/P6-11.1.0	CROSS	EQ	SB	8.952	1.184	-0.0	0.08	4.2	0.6567		368
DP/S1.1.0-1	FIRST	1	PS	7.201	0.006	0.0	0.05	7.0	1.0000		-
DP/S1.1.0-1	FIRST	2	PS	7.201	0.012	0.0	0.05	7.0	1.0000		-
DP/S1.1.0-1	FIRST	EQ	PS	7.202	0.018	0.0	0.12	16.0	1.0000		-
DP/S1.2.0-1	FIRST	1	PS	7.201	0.006	0.0	0.05	7.0	1.0000		-
DP/S1.2.0-1	FIRST	2	PS	7.201	0.012	0.0	0.05	7.0	1.0000		-
DP/S1.2.0-1	FIRST	EQ	PS	7.202	0.018	0.0	0.12	16.0	1.0000		-
DP/S2.1.0-1	FIRST	1	PS	7.220	0.169	0.0	0.05	7.0	1.0000		-
DP/S2.1.0-1	FIRST	2	PS	7.241	0.369	0.0	0.05	7.0	1.0000		-
DP/S2.1.0-1	FIRST	EQ	PS	7.270	0.647	0.0	0.12	16.0	1.0000		-
DP/S3.1.0-1	FIRST	1	SB	7.235	0.243	-0.8	0.05	7.0	1.0000		-
DP/S3.1.0-1	FIRST	2	SB	7.270	0.519	-1.7	0.05	7.0	1.0000		-
DP/S3.1.0-1	FIRST	EQ	SB	7.313	0.862	-2.4	0.05	7.0	1.0000		-
DP/S3.1.0-1	INT1	1	SB	7.313	0.862	-2.4	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FACSOL	CROSSTM s
DP/S3.1.0-1	INT1	2	SB	7.313	0.862	-2.4	0.05	7.0	1.0000	-
DP/S3.1.0-1	INT1	EQ	SB	7.313	0.862	-2.4	0.05	7.0	1.0000	-
DP/S3.1.0-1	INT2	1	SB	7.313	0.862	-2.4	0.05	7.0	1.0000	-
DP/S3.1.0-1	INT2	2	SB	7.313	0.862	-2.4	0.05	7.0	1.0000	-
DP/S3.1.0-1	INT2	EQ	SB	7.313	0.862	-2.4	0.12	16.0	1.0000	-
DP/S3.2.0	FIRST	1	SB	7.240	0.279	-0.8	0.05	7.0	1.0000	-
DP/S3.2.0	FIRST	2	SB	7.281	0.592	-1.7	0.05	7.0	1.0000	-
DP/S3.2.0	FIRST	EQ	SB	7.330	0.978	-2.3	0.05	7.0	1.0000	-
DP/S3.2.0	INT1	1	SB	7.330	0.978	-2.3	0.05	7.0	1.0000	-
DP/S3.2.0	INT1	2	SB	7.330	0.978	-2.3	0.05	7.0	1.0000	-
DP/S3.2.0	INT1	EQ	SB	7.330	0.978	-2.3	0.05	7.0	1.0000	-
DP/S3.2.0	INT2	1	SB	7.330	0.978	-2.3	0.05	7.0	1.0000	-
DP/S3.2.0	INT2	2	SB	7.330	0.978	-2.3	0.05	7.0	1.0000	-
DP/S3.2.0	INT2	EQ	SB	7.330	0.978	-2.3	0.12	15.9	0.9978	-
DP/S3.3.0	FIRST	1	SB	7.255	0.387	-1.0	0.05	7.0	1.0000	-
DP/S3.3.0	FIRST	2	SB	7.308	0.813	-2.2	0.05	7.0	1.0000	-
DP/S3.3.0	FIRST	EQ	SB	7.374	1.328	-3.0	0.05	7.0	1.0000	-
DP/S3.3.0	INT2	1	SB	7.374	1.328	-3.0	0.05	7.0	1.0000	-
DP/S3.3.0	INT2	2	SB	7.374	1.328	-3.0	0.05	7.0	1.0000	-
DP/S3.3.0	INT2	EQ	SB	7.374	1.328	-3.0	0.12	14.4	0.9745	-
DP/S4.1.0	FIRST	1	SB	7.248	0.233	-0.0	0.05	7.0	1.0000	-
DP/S4.1.0	FIRST	2	SB	7.295	0.470	-0.2	0.05	7.0	1.0000	-
DP/S4.1.0	FIRST	EQ	SB	7.344	0.715	-0.3	0.12	16.0	1.0000	-
DP/S4.2.0	FIRST	1	SB	7.270	0.352	-0.7	0.05	7.0	1.0000	-
DP/S4.2.0	FIRST	2	SB	7.336	0.709	-1.6	0.05	7.0	1.0000	-
DP/S4.2.0	FIRST	EQ	SB	7.414	1.110	-2.2	0.12	15.9	0.9987	-
DP/S4.3.0	FIRST	1	SB	7.273	0.366	-0.8	0.05	7.0	1.0000	-
DP/S4.3.0	FIRST	2	SB	7.342	0.742	-1.8	0.05	7.0	1.0000	-
DP/S4.3.0	FIRST	EQ	SB	7.427	1.176	-2.3	0.12	15.6	0.9943	-
DP/S4.4.0	FIRST	1	SB	7.276	0.384	-0.7	0.05	7.0	1.0000	-
DP/S4.4.0	FIRST	2	SB	7.350	0.778	-1.7	0.05	7.0	1.0000	-
DP/S4.4.0	FIRST	EQ	SB	7.439	1.229	-2.3	0.12	15.5	0.9924	-
DP/S5.1.0-1	FIRST	1	PS	7.295	0.335	0.0	0.05	7.0	1.0000	-
DP/S5.1.0-1	FIRST	2	PS	7.395	0.683	0.0	0.05	7.0	1.0000	-
DP/S5.1.0-1	FIRST	EQ	PS	7.506	1.056	0.0	0.12	16.0	1.0000	-
DP/S5.2.0	FIRST	1	SB	7.317	0.403	-0.2	0.05	7.0	1.0000	-
DP/S5.2.0	FIRST	2	SB	7.437	0.822	-0.3	0.05	7.0	1.0000	-
DP/S5.2.0	FIRST	EQ	SB	7.573	1.267	-0.2	0.12	16.0	1.0000	-
DP/S5.3.0	FIRST	1	SB	7.317	0.405	-0.2	0.05	7.0	1.0000	-
DP/S5.3.0	FIRST	2	SB	7.439	0.829	-0.3	0.05	7.0	1.0000	-
DP/S5.3.0	FIRST	EQ	SB	7.579	1.291	-0.2	0.12	16.0	1.0000	-
DP/S5.4.0	FIRST	1	SB	7.318	0.406	-0.3	0.05	7.0	1.0000	-
DP/S5.4.0	FIRST	2	SB	7.440	0.832	-0.3	0.05	7.0	1.0000	-
DP/S5.4.0	FIRST	EQ	SB	7.581	1.296	-0.2	0.12	16.0	1.0000	-
DP/S5.5.0	FIRST	1	SB	7.320	0.414	-0.3	0.05	7.0	1.0000	-
DP/S5.5.0	FIRST	2	SB	7.445	0.848	-0.3	0.05	7.0	1.0000	-
DP/S5.5.0	FIRST	EQ	SB	7.589	1.321	-0.2	0.12	16.0	1.0000	-
DP/S6.1.0-1	FIRST	1	PS	7.249	0.128	0.0	0.05	7.0	1.0000	-
DP/S6.1.0-1	FIRST	2	PS	7.299	0.257	0.0	0.05	7.0	1.0000	-
DP/S6.1.0-1	FIRST	EQ	PS	7.351	0.390	0.0	0.12	16.0	1.0000	-
DP/S6.2.0	FIRST	1	SB	7.363	0.533	-0.4	0.05	7.0	1.0000	-
DP/S6.2.0	FIRST	2	SB	7.537	1.068	-0.5	0.05	7.0	1.0000	-
DP/S6.2.0	FIRST	EQ	SB	7.742	1.647	-0.2	0.12	14.1	0.9681	-
DP/S6.3.0	FIRST	1	SB	7.363	0.533	-0.4	0.05	7.0	1.0000	-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DP/S6.3.0	FIRST	2	SB	7.537	1.068	-0.5	0.05	7.0	1.0000		-
DP/S6.3.0	FIRST	EQ	SB	7.742	1.647	-0.2	0.12	14.1	0.9681		-
DP/S6.4.0	FIRST	1	SB	7.364	0.534	-0.4	0.05	7.0	1.0000		-
DP/S6.4.0	FIRST	2	SB	7.538	1.071	-0.5	0.05	7.0	1.0000		-
DP/S6.4.0	FIRST	EQ	SB	7.743	1.651	-0.2	0.12	14.0	0.9671		-
DP/S6.5.0	FIRST	1	SB	7.364	0.534	-0.4	0.05	7.0	1.0000		-
DP/S6.5.0	FIRST	2	SB	7.538	1.071	-0.5	0.05	7.0	1.0000		-
DP/S6.5.0	FIRST	EQ	SB	7.743	1.651	-0.2	0.12	14.0	0.9671		-
DP/S6.6.0	FIRST	1	SB	7.365	0.539	-0.4	0.05	7.0	1.0000		-
DP/S6.6.0	FIRST	2	SB	7.542	1.081	-0.5	0.05	7.0	1.0000		-
DP/S6.6.0	FIRST	EQ	SB	7.749	1.667	-0.2	0.12	13.9	0.9652		-
DP/S7.1.0-1	FIRST	1	PS	7.249	0.128	0.0	0.05	7.0	1.0000		-
DP/S7.1.0-1	FIRST	2	PS	7.299	0.257	0.0	0.05	7.0	1.0000		-
DP/S7.1.0-1	FIRST	EQ	PS	7.351	0.390	0.0	0.12	16.0	1.0000		-
DP/S7.2.0-1	FIRST	1	PS	7.251	0.132	0.0	0.05	7.0	1.0000		-
DP/S7.2.0-1	FIRST	2	PS	7.306	0.269	0.0	0.05	7.0	1.0000		-
DP/S7.2.0-1	FIRST	EQ	PS	7.368	0.419	0.0	0.12	16.0	1.0000		-
DP/S7.3.0-1	FIRST	1	PS	7.251	0.132	0.0	0.05	7.0	1.0000		-
DP/S7.3.0-1	FIRST	2	PS	7.306	0.269	0.0	0.05	7.0	1.0000		-
DP/S7.3.0-1	FIRST	EQ	PS	7.368	0.419	0.0	0.12	16.0	1.0000		-
DP/S7.4.0-1	FIRST	1	PS	7.251	0.132	0.0	0.05	7.0	1.0000		-
DP/S7.4.0-1	FIRST	2	PS	7.306	0.269	0.0	0.05	7.0	1.0000		-
DP/S7.4.0-1	FIRST	EQ	PS	7.368	0.419	0.0	0.12	16.0	1.0000		-
DP/S7.5.0-1	FIRST	1	PS	7.251	0.132	0.0	0.05	7.0	1.0000		-
DP/S7.5.0-1	FIRST	2	PS	7.306	0.269	0.0	0.05	7.0	1.0000		-
DP/S7.5.0-1	FIRST	EQ	PS	7.368	0.419	0.0	0.12	16.0	1.0000		-
DP/S7.6.0-1	FIRST	1	PS	7.251	0.132	0.0	0.05	7.0	1.0000		-
DP/S7.6.0-1	FIRST	2	PS	7.306	0.269	0.0	0.05	7.0	1.0000		-
DP/S7.6.0-1	FIRST	EQ	PS	7.368	0.419	0.0	0.12	16.0	1.0000		-
DP/S8.1.0-1	FIRST	1	PS	7.249	0.128	0.0	0.05	7.0	1.0000		-
DP/S8.1.0-1	FIRST	2	PS	7.299	0.257	0.0	0.05	7.0	1.0000		-
DP/S8.1.0-1	FIRST	EQ	PS	7.351	0.390	0.0	0.12	16.0	1.0000		-
DP/S8.2.0	FIRST	1	SB	7.388	0.357	-0.4	0.05	7.0	1.0000		-
DP/S8.2.0	FIRST	2	SB	7.588	0.723	-0.5	0.05	7.0	1.0000		-
DP/S8.2.0	FIRST	EQ	SB	7.818	1.124	-0.2	0.12	16.0	1.0000		-
DP/S8.3.0	FIRST	1	SB	7.388	0.357	-0.4	0.05	7.0	1.0000		-
DP/S8.3.0	FIRST	2	SB	7.588	0.723	-0.5	0.05	7.0	1.0000		-
DP/S8.3.0	FIRST	EQ	SB	7.818	1.124	-0.2	0.12	16.0	1.0000		-
DP/S8.4.0	FIRST	1	SB	7.389	0.358	-0.5	0.05	7.0	1.0000		-
DP/S8.4.0	FIRST	2	SB	7.589	0.725	-0.6	0.05	7.0	1.0000		-
DP/S8.4.0	FIRST	EQ	SB	7.820	1.127	-0.3	0.12	16.0	1.0000		-
DP/S8.5.0	FIRST	1	SB	7.389	0.358	-0.5	0.05	7.0	1.0000		-
DP/S8.5.0	FIRST	2	SB	7.589	0.725	-0.6	0.05	7.0	1.0000		-
DP/S8.5.0	FIRST	EQ	SB	7.820	1.127	-0.3	0.12	16.0	1.0000		-
DP/S8.6.0	FIRST	1	SB	7.393	0.365	-0.4	0.05	7.0	1.0000		-
DP/S8.6.0	FIRST	2	SB	7.598	0.739	-0.6	0.05	7.0	1.0000		-
DP/S8.6.0	FIRST	EQ	SB	7.834	1.149	-0.3	0.12	16.0	1.0000		-
DP/S9.1.0-1	FIRST	1	PS	7.308	0.186	0.0	0.05	7.0	1.0000		-
DP/S9.1.0-1	FIRST	2	PS	7.421	0.372	0.0	0.05	7.0	1.0000		-
DP/S9.1.0-1	FIRST	EQ	PS	7.545	0.573	0.0	0.12	16.0	1.0000		-
DP/S9.2.0	FIRST	1	SB	7.339	0.252	-0.3	0.05	7.0	1.0000		-
DP/S9.2.0	FIRST	2	SB	7.485	0.489	-0.3	0.05	7.0	1.0000		-
DP/S9.2.0	FIRST	EQ	SB	7.646	0.740	-0.2	0.12	16.0	1.0000		-
DP/S9.3.0	FIRST	1	SB	7.340	0.253	-0.3	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DP/S9.3.0	FIRST	2	SB	7.487	0.492	-0.3	0.05	7.0	1.0000		-
DP/S9.3.0	FIRST	EQ	SB	7.651	0.746	-0.2	0.12	16.0	1.0000		-
DP/S9.4.0	FIRST	1	SB	7.340	0.254	-0.3	0.05	7.0	1.0000		-
DP/S9.4.0	FIRST	2	SB	7.488	0.494	-0.4	0.05	7.0	1.0000		-
DP/S9.4.0	FIRST	EQ	SB	7.653	0.749	-0.2	0.12	16.0	1.0000		-
DP/S9.5.0	FIRST	1	SB	7.340	0.254	-0.3	0.05	7.0	1.0000		-
DP/S9.5.0	FIRST	2	SB	7.488	0.494	-0.4	0.05	7.0	1.0000		-
DP/S9.5.0	FIRST	EQ	SB	7.653	0.749	-0.2	0.12	16.0	1.0000		-
DP/S9.6.0	FIRST	1	SB	7.344	0.262	-0.3	0.05	7.0	1.0000		-
DP/S9.6.0	FIRST	2	SB	7.496	0.508	-0.4	0.05	7.0	1.0000		-
DP/S9.6.0	FIRST	EQ	SB	7.666	0.769	-0.2	0.12	16.0	1.0000		-
DP/S10.1.0-1	FIRST	1	PS	7.278	0.053	0.0	0.05	7.0	1.0000		-
DP/S10.1.0-1	FIRST	2	PS	7.360	0.107	0.0	0.05	7.0	1.0000		-
DP/S10.1.0-1	FIRST	EQ	PS	7.451	0.164	0.0	0.12	16.0	1.0000		-
DP/S10.2.0	FIRST	1	SB	7.307	0.069	-1.0	0.05	7.0	1.0000		-
DP/S10.2.0	FIRST	2	SB	7.417	0.136	-1.8	0.05	7.0	1.0000		-
DP/S10.2.0	FIRST	EQ	SB	7.545	0.210	-1.6	0.12	16.0	1.0000		-
DP/S10.3.0	FIRST	1	SB	7.315	0.072	-1.1	0.05	7.0	1.0000		-
DP/S10.3.0	FIRST	2	SB	7.432	0.141	-2.1	0.05	7.0	1.0000		-
DP/S10.3.0	FIRST	EQ	SB	7.569	0.218	-2.0	0.12	16.0	1.0000		-
DP/S10.4.0	FIRST	1	SB	7.321	0.073	-1.0	0.05	7.0	1.0000		-
DP/S10.4.0	FIRST	2	SB	7.444	0.145	-2.0	0.05	7.0	1.0000		-
DP/S10.4.0	FIRST	EQ	SB	7.587	0.225	-1.9	0.12	16.0	1.0000		-
DP/S11.1.0-1	FIRST	1	PS	7.347	-0.074	0.0	0.05	7.0	1.0000		-
DP/S11.1.0-1	FIRST	2	PS	7.502	-0.151	0.0	0.05	7.0	1.0000		-
DP/S11.1.0-1	FIRST	EQ	PS	7.681	-0.239	0.0	0.12	16.0	1.0000		-
DP/S11.2.0	FIRST	1	SB	7.351	-0.085	-2.7	0.05	7.0	1.0000		-
DP/S11.2.0	FIRST	2	SB	7.519	-0.173	-3.1	0.05	7.0	1.0000		-
DP/S11.2.0	FIRST	EQ	SB	7.729	-0.267	-1.9	0.05	7.0	1.0000		-
DP/S11.2.0	CROSS	1	SB	7.757	-0.274	-0.8	0.05	7.0	1.0000		404
DP/S11.2.0	CROSS	2	SB	7.757	-0.274	-0.8	0.05	7.0	1.0000		404
DP/S11.2.0	CROSS	EQ	SB	7.757	-0.274	-0.8	0.12	16.0	1.0000		404
DP/S11.3.0	FIRST	1	SB	7.360	-0.090	-2.6	0.05	7.0	1.0000		-
DP/S11.3.0	FIRST	2	SB	7.536	-0.182	-3.1	0.05	7.0	1.0000		-
DP/S11.3.0	FIRST	EQ	SB	7.756	-0.281	-1.9	0.05	7.0	1.0000		-
DP/S11.3.0	CROSS	1	SB	7.783	-0.288	-0.8	0.05	7.0	1.0000		403
DP/S11.3.0	CROSS	2	SB	7.783	-0.288	-0.8	0.05	7.0	1.0000		403
DP/S11.3.0	CROSS	EQ	SB	7.783	-0.288	-0.8	0.12	16.0	1.0000		403
DP/S12.1.0-1	FIRST	1	PS	7.296	-0.158	0.0	0.05	7.0	1.0000		-
DP/S12.1.0-1	FIRST	2	PS	7.397	-0.322	0.0	0.05	7.0	1.0000		-
DP/S12.1.0-1	FIRST	EQ	PS	7.518	-0.514	0.0	0.12	16.0	1.0000		-
DP/S12.2.0	FIRST	1	SB	7.345	-0.246	-1.9	0.05	7.0	1.0000		-
DP/S12.2.0	FIRST	2	SB	7.484	-0.504	-3.8	0.05	7.0	1.0000		-
DP/S12.2.0	FIRST	EQ	SB	7.674	-0.794	-3.7	0.12	14.4	0.9737		-
DP/S12.3.0	FIRST	1	SB	7.354	-0.255	-1.7	0.05	7.0	1.0000		-
DP/S12.3.0	FIRST	2	SB	7.501	-0.525	-3.7	0.05	7.0	1.0000		-
DP/S12.3.0	FIRST	EQ	SB	7.700	-0.829	-3.6	0.12	14.4	0.9734		-
DP/S13.1.0-1	FIRST	1	SB	7.214	-0.036	-0.6	0.05	7.0	1.0000		-
DP/S13.1.0-1	FIRST	2	SB	7.227	-0.075	-1.2	0.05	7.0	1.0000		-
DP/S13.1.0-1	FIRST	EQ	SB	7.245	-0.132	-2.0	0.12	16.0	1.0000		-
DP/S13.2.0-1	FIRST	1	SB	7.271	-0.183	-0.6	0.05	7.0	1.0000		-
DP/S13.2.0-1	FIRST	2	SB	7.344	-0.378	-1.4	0.05	7.0	1.0000		-
DP/S13.2.0-1	FIRST	EQ	SB	7.434	-0.611	-1.9	0.12	16.0	1.0000		-
DP/S13.3.0	FIRST	1	SB	7.323	-0.309	-0.9	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DP/S13.3.0	FIRST	2	SB	7.445	-0.638	-2.5	0.05	7.0	1.0000		-
DP/S13.3.0	FIRST	EQ	SB	7.590	-1.032	-3.7	0.12	14.4	0.9748		-
DP/S14.1.0	FIRST	1	SB	7.303	-0.333	-0.6	0.05	7.0	1.0000		-
DP/S14.1.0	FIRST	2	SB	7.411	-0.689	-1.3	0.05	7.0	1.0000		-
DP/S14.1.0	FIRST	EQ	SB	7.546	-1.139	-2.2	0.05	7.0	1.0000		-
DP/S14.1.0	CROSS	1	SB	7.589	-1.253	-1.2	0.05	7.0	1.0000		1343
DP/S14.1.0	CROSS	2	PS	7.633	-1.381	0.0	0.05	7.0	1.0000		1343
DP/S14.1.0	CROSS	EQ	PS	7.633	-1.381	0.0	0.12	16.0	1.0000		1343
DP/S14.2.0	FIRST	1	SB	7.325	-0.404	-0.4	0.05	7.0	1.0000		-
DP/S14.2.0	FIRST	2	SB	7.457	-0.833	-1.2	0.05	7.0	1.0000		-
DP/S14.2.0	FIRST	EQ	SB	7.620	-1.372	-2.1	0.05	7.0	1.0000		-
DP/S14.2.0	CROSS	1	SB	7.663	-1.487	-1.2	0.05	7.0	1.0000		1328
DP/S14.2.0	CROSS	2	PS	7.706	-1.611	0.0	0.05	7.0	1.0000		1328
DP/S14.2.0	CROSS	EQ	PS	7.706	-1.611	0.0	0.12	16.0	1.0000		1328
DP/S15.1.0-1	FIRST	1	PS	7.288	-0.352	0.0	0.05	7.0	1.0000		-
DP/S15.1.0-1	FIRST	2	PS	7.386	-0.738	0.0	0.05	7.0	1.0000		-
DP/S15.1.0-1	FIRST	EQ	PS	7.524	-1.291	0.0	0.12	16.0	1.0000		-
DP/S15.2.0-1	FIRST	1	PS	7.288	-0.352	0.0	0.05	7.0	1.0000		-
DP/S15.2.0-1	FIRST	2	PS	7.386	-0.738	0.0	0.05	7.0	1.0000		-
DP/S15.2.0-1	FIRST	EQ	PS	7.524	-1.291	0.0	0.12	16.0	1.0000		-
DP/S16.1.0-1	FIRST	1	PS	7.287	-0.408	0.0	0.05	7.0	1.0000		-
DP/S16.1.0-1	FIRST	2	PS	7.382	-0.858	0.0	0.05	7.0	1.0000		-
DP/S16.1.0-1	FIRST	EQ	PS	7.513	-1.486	0.0	0.12	16.0	1.0000		-
DP/S16.2.0-1	FIRST	1	PS	7.287	-0.408	0.0	0.05	7.0	1.0000		-
DP/S16.2.0-1	FIRST	2	PS	7.382	-0.858	0.0	0.05	7.0	1.0000		-
DP/S16.2.0-1	FIRST	EQ	PS	7.513	-1.486	0.0	0.12	16.0	1.0000		-
DP/S17.1.0-1	FIRST	1	PS	7.235	-0.186	0.0	0.05	7.0	1.0000		-
DP/S17.1.0-1	FIRST	2	PS	7.273	-0.386	0.0	0.05	7.0	1.0000		-
DP/S17.1.0-1	FIRST	EQ	PS	7.319	-0.634	0.0	0.12	16.0	1.0000		-
DP/S18.1.0-1	FIRST	1	PS	7.222	-0.132	0.0	0.05	7.0	1.0000		-
DP/S18.1.0-1	FIRST	2	PS	7.245	-0.267	0.0	0.05	7.0	1.0000		-
DP/S18.1.0-1	FIRST	EQ	PS	7.268	-0.406	0.0	0.12	16.0	1.0000		-
DP/S1-2.1.0-1	FIRST	1	PS	7.226	0.220	0.0	0.05	7.0	1.0000		-
DP/S1-2.1.0-1	FIRST	2	PS	7.253	0.485	0.0	0.05	7.0	1.0000		-
DP/S1-2.1.0-1	FIRST	EQ	PS	7.295	0.899	0.0	0.12	16.0	1.0000		-
DP/S1-2.2.0-1	FIRST	1	PS	7.226	0.220	0.0	0.05	7.0	1.0000		-
DP/S1-2.2.0-1	FIRST	2	PS	7.253	0.485	0.0	0.05	7.0	1.0000		-
DP/S1-2.2.0-1	FIRST	EQ	PS	7.295	0.899	0.0	0.12	16.0	1.0000		-
DP/S2-3.1.0-1	FIRST	1	SB	7.259	0.472	-0.7	0.05	7.0	1.0000		-
DP/S2-3.1.0-1	FIRST	2	SB	7.323	1.050	-2.0	0.05	7.0	1.0000		-
DP/S2-3.1.0-1	FIRST	EQ	SB	7.430	2.007	-3.3	0.05	7.0	1.0000		-
DP/S2-3.1.0-1	INT1	1	SB	7.430	2.007	-3.3	0.05	7.0	1.0000		-
DP/S2-3.1.0-1	INT1	2	SB	7.430	2.007	-3.3	0.05	7.0	1.0000		-
DP/S2-3.1.0-1	INT1	EQ	SB	7.430	2.007	-3.3	0.05	7.0	1.0000		-
DP/S2-3.1.0-1	INT2	1	SB	7.430	2.008	-3.3	0.05	7.0	1.0000		-
DP/S2-3.1.0-1	INT2	2	SB	7.430	2.008	-3.3	0.05	7.0	1.0000		-
DP/S2-3.1.0-1	INT2	EQ	SB	7.430	2.007	-3.3	0.12	13.1	0.9519		-
DP/S2-3.2.0	FIRST	1	SB	7.264	0.505	-0.7	0.05	7.0	1.0000		-
DP/S2-3.2.0	FIRST	2	SB	7.334	1.123	-1.9	0.05	7.0	1.0000		-
DP/S2-3.2.0	FIRST	EQ	SB	7.451	2.144	-3.3	0.05	7.0	1.0000		-
DP/S2-3.2.0	INT1	1	SB	7.451	2.144	-3.3	0.05	7.0	1.0000		-
DP/S2-3.2.0	INT1	2	SB	7.451	2.144	-3.3	0.05	7.0	1.0000		-
DP/S2-3.2.0	INT1	EQ	SB	7.451	2.144	-3.3	0.05	7.0	1.0000		-
DP/S2-3.2.0	INT2	1	SB	7.451	2.145	-3.3	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DP/S2-3.2.0	INT2	2	SB	7.451	2.145	-3.3	0.05	7.0	1.0000		-
DP/S2-3.2.0	INT2	EQ	SB	7.451	2.144	-3.3	0.12	13.0	0.9492		-
DP/S2-3.3.0	FIRST	1	SB	7.278	0.611	-0.9	0.05	7.0	1.0000		-
DP/S2-3.3.0	FIRST	2	SB	7.361	1.349	-2.6	0.05	7.0	1.0000		-
DP/S2-3.3.0	FIRST	EQ	SB	7.496	2.562	-4.2	0.05	7.0	1.0000		-
DP/S2-3.3.0	INT2	1	SB	7.496	2.562	-4.2	0.05	7.0	1.0000		-
DP/S2-3.3.0	INT2	2	SB	7.496	2.562	-4.2	0.05	7.0	1.0000		-
DP/S2-3.3.0	INT2	EQ	SB	7.496	2.562	-4.2	0.12	11.3	0.9171		-
DP/S3-4.1.0	FIRST	1	SB	7.282	0.460	-1.1	0.05	7.0	1.0000		-
DP/S3-4.1.0	FIRST	2	SB	7.356	0.986	-3.0	0.05	7.0	1.0000		-
DP/S3-4.1.0	FIRST	EQ	SB	7.472	1.691	-3.1	0.05	7.0	1.0000		-
DP/S3-4.1.0	INT1	1	SB	7.472	1.691	-3.1	0.05	7.0	1.0000		-
DP/S3-4.1.0	INT1	2	SB	7.472	1.691	-3.1	0.05	7.0	1.0000		-
DP/S3-4.1.0	INT1	EQ	SB	7.472	1.691	-3.1	0.05	7.0	1.0000		-
DP/S3-4.1.0	INT2	1	SB	7.472	1.691	-3.1	0.05	7.0	1.0000		-
DP/S3-4.1.0	INT2	2	SB	7.472	1.691	-3.1	0.05	7.0	1.0000		-
DP/S3-4.1.0	INT2	EQ	SB	7.472	1.691	-3.1	0.12	13.3	0.9557		-
DP/S3-4.2.0	FIRST	1	SB	7.286	0.505	-1.1	0.05	7.0	1.0000		-
DP/S3-4.2.0	FIRST	2	SB	7.366	1.061	-3.0	0.05	7.0	1.0000		-
DP/S3-4.2.0	FIRST	EQ	SB	7.488	1.802	-3.1	0.05	7.0	1.0000		-
DP/S3-4.2.0	INT1	1	SB	7.488	1.802	-3.1	0.05	7.0	1.0000		-
DP/S3-4.2.0	INT1	2	SB	7.488	1.802	-3.1	0.05	7.0	1.0000		-
DP/S3-4.2.0	INT1	EQ	SB	7.488	1.802	-3.1	0.05	7.0	1.0000		-
DP/S3-4.2.0	INT2	1	SB	7.488	1.802	-3.1	0.05	7.0	1.0000		-
DP/S3-4.2.0	INT2	2	SB	7.488	1.802	-3.1	0.05	7.0	1.0000		-
DP/S3-4.2.0	INT2	EQ	SB	7.488	1.802	-3.1	0.12	13.1	0.9517		-
DP/S3-4.3.0	FIRST	1	SB	7.305	0.621	-1.8	0.05	7.0	1.0000		-
DP/S3-4.3.0	FIRST	2	SB	7.391	1.297	-4.7	0.05	7.0	1.0000		-
DP/S3-4.3.0	FIRST	EQ	SB	7.546	2.267	-5.4	0.05	7.0	1.0000		-
DP/S3-4.3.0	INT1	1	SB	7.546	2.267	-5.4	0.05	7.0	1.0000		-
DP/S3-4.3.0	INT1	2	SB	7.546	2.267	-5.4	0.05	7.0	1.0000		-
DP/S3-4.3.0	INT1	EQ	SB	7.546	2.267	-5.4	0.05	7.0	1.0000		-
DP/S3-4.3.0	INT2	1	SB	7.545	2.266	-5.4	0.05	7.0	1.0000		-
DP/S3-4.3.0	INT2	2	SB	7.545	2.266	-5.4	0.05	7.0	1.0000		-
DP/S3-4.3.0	INT2	EQ	SB	7.546	2.267	-5.4	0.12	9.6	0.8798		-
DP/S4-5.1.0	FIRST	1	SB	7.361	0.614	-0.1	0.05	7.0	1.0000		-
DP/S4-5.1.0	FIRST	2	SB	7.527	1.256	-1.0	0.05	7.0	1.0000		-
DP/S4-5.1.0	FIRST	EQ	SB	7.723	1.948	-0.8	0.12	14.9	0.9827		-
DP/S4-5.2.0	FIRST	1	SB	7.384	0.727	-1.1	0.05	7.0	1.0000		-
DP/S4-5.2.0	FIRST	2	SB	7.561	1.496	-3.3	0.05	7.0	1.0000		-
DP/S4-5.2.0	FIRST	EQ	SB	7.805	2.394	-3.1	0.12	11.6	0.9224		-
DP/S4-5.3.0	FIRST	1	SB	7.385	0.729	-1.1	0.05	7.0	1.0000		-
DP/S4-5.3.0	FIRST	2	SB	7.564	1.507	-3.3	0.05	7.0	1.0000		-
DP/S4-5.3.0	FIRST	EQ	SB	7.816	2.433	-3.1	0.12	11.5	0.9201		-
DP/S4-5.4.0	FIRST	1	SB	7.387	0.745	-1.2	0.05	7.0	1.0000		-
DP/S4-5.4.0	FIRST	2	SB	7.569	1.543	-3.5	0.05	7.0	1.0000		-
DP/S4-5.4.0	FIRST	EQ	SB	7.836	2.525	-3.3	0.12	11.1	0.9126		-
DP/S4-5.5.0	FIRST	1	SB	7.387	0.746	-1.3	0.05	7.0	1.0000		-
DP/S4-5.5.0	FIRST	2	SB	7.570	1.546	-3.5	0.05	7.0	1.0000		-
DP/S4-5.5.0	FIRST	EQ	SB	7.837	2.530	-3.3	0.12	11.1	0.9118		-
DP/S4-5.6.0	FIRST	1	SB	7.390	0.752	-1.2	0.05	7.0	1.0000		-
DP/S4-5.6.0	FIRST	2	SB	7.576	1.560	-3.5	0.05	7.0	1.0000		-
DP/S4-5.6.0	FIRST	EQ	SB	7.845	2.555	-3.3	0.12	11.0	0.9106		-
DP/S4-5.7.0	FIRST	1	SB	7.394	0.774	-1.1	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DP/S4-5.7.0	FIRST	2	SB	7.584	1.597	-3.5	0.05	7.0	1.0000		-
DP/S4-5.7.0	FIRST	EQ	SB	7.858	2.608	-3.3	0.12	10.9	0.9083		-
DP/S5-6.1.0	FIRST	1	PS	7.362	0.528	0.0	0.05	7.0	1.0000		-
DP/S5-6.1.0	FIRST	2	PS	7.535	1.060	0.0	0.05	7.0	1.0000		-
DP/S5-6.1.0	FIRST	EQ	SB	7.737	1.634	-0.0	0.12	16.0	1.0000		-
DP/S5-6.2.0	FIRST	1	SB	7.364	0.537	-0.4	0.05	7.0	1.0000		-
DP/S5-6.2.0	FIRST	2	SB	7.539	1.075	-0.5	0.05	7.0	1.0000		-
DP/S5-6.2.0	FIRST	EQ	SB	7.744	1.656	-0.2	0.12	16.0	1.0000		-
DP/S5-6.3.0	FIRST	1	SB	7.364	0.539	-0.4	0.05	7.0	1.0000		-
DP/S5-6.3.0	FIRST	2	SB	7.541	1.082	-0.5	0.05	7.0	1.0000		-
DP/S5-6.3.0	FIRST	EQ	SB	7.753	1.687	-0.2	0.12	16.0	1.0000		-
DP/S5-6.4.0	FIRST	1	SB	7.365	0.540	-0.4	0.05	7.0	1.0000		-
DP/S5-6.4.0	FIRST	2	SB	7.542	1.085	-0.5	0.05	7.0	1.0000		-
DP/S5-6.4.0	FIRST	EQ	SB	7.754	1.691	-0.2	0.12	16.0	1.0000		-
DP/S5-6.5.0	FIRST	1	SB	7.368	0.551	-0.4	0.05	7.0	1.0000		-
DP/S5-6.5.0	FIRST	2	SB	7.548	1.106	-0.5	0.05	7.0	1.0000		-
DP/S5-6.5.0	FIRST	EQ	SB	7.765	1.721	-0.2	0.12	16.0	1.0000		-
DP/S6-7.1.0-1	FIRST	1	PS	7.249	0.128	0.0	0.05	7.0	1.0000		-
DP/S6-7.1.0-1	FIRST	2	PS	7.299	0.257	0.0	0.05	7.0	1.0000		-
DP/S6-7.1.0-1	FIRST	EQ	PS	7.351	0.390	0.0	0.12	16.0	1.0000		-
DP/S6-7.2.0	FIRST	1	SB	7.400	0.520	-0.4	0.05	7.0	1.0000		-
DP/S6-7.2.0	FIRST	2	SB	7.610	1.153	-1.1	0.05	7.0	1.0000		-
DP/S6-7.2.0	FIRST	EQ	SB	7.884	1.866	-0.3	0.12	11.8	0.9263		-
DP/S6-7.3.0	FIRST	1	SB	7.400	0.520	-0.4	0.05	7.0	1.0000		-
DP/S6-7.3.0	FIRST	2	SB	7.610	1.153	-1.1	0.05	7.0	1.0000		-
DP/S6-7.3.0	FIRST	EQ	SB	7.884	1.866	-0.3	0.12	11.8	0.9263		-
DP/S6-7.4.0	FIRST	1	SB	7.400	0.522	-0.5	0.05	7.0	1.0000		-
DP/S6-7.4.0	FIRST	2	SB	7.611	1.156	-1.2	0.05	7.0	1.0000		-
DP/S6-7.4.0	FIRST	EQ	SB	7.886	1.870	-0.4	0.12	11.7	0.9249		-
DP/S6-7.5.0	FIRST	1	SB	7.402	0.526	-0.5	0.05	7.0	1.0000		-
DP/S6-7.5.0	FIRST	2	SB	7.615	1.166	-1.2	0.05	7.0	1.0000		-
DP/S6-7.5.0	FIRST	EQ	SB	7.892	1.886	-0.3	0.12	11.6	0.9230		-
DP/S7-8.1.0-1	FIRST	1	PS	7.249	0.128	0.0	0.05	7.0	1.0000		-
DP/S7-8.1.0-1	FIRST	2	PS	7.299	0.257	0.0	0.05	7.0	1.0000		-
DP/S7-8.1.0-1	FIRST	EQ	PS	7.351	0.390	0.0	0.12	16.0	1.0000		-
DP/S7-8.2.0	FIRST	1	SB	7.388	0.357	-0.4	0.05	7.0	1.0000		-
DP/S7-8.2.0	FIRST	2	SB	7.588	0.723	-0.5	0.05	7.0	1.0000		-
DP/S7-8.2.0	FIRST	EQ	SB	7.818	1.124	-0.2	0.12	16.0	1.0000		-
DP/S7-8.3.0	FIRST	1	SB	7.388	0.357	-0.4	0.05	7.0	1.0000		-
DP/S7-8.3.0	FIRST	2	SB	7.588	0.723	-0.5	0.05	7.0	1.0000		-
DP/S7-8.3.0	FIRST	EQ	SB	7.818	1.124	-0.2	0.12	16.0	1.0000		-
DP/S7-8.4.0	FIRST	1	SB	7.389	0.358	-0.5	0.05	7.0	1.0000		-
DP/S7-8.4.0	FIRST	2	SB	7.589	0.725	-0.6	0.05	7.0	1.0000		-
DP/S7-8.4.0	FIRST	EQ	SB	7.820	1.127	-0.3	0.12	16.0	1.0000		-
DP/S7-8.5.0	FIRST	1	SB	7.389	0.358	-0.5	0.05	7.0	1.0000		-
DP/S7-8.5.0	FIRST	2	SB	7.589	0.725	-0.6	0.05	7.0	1.0000		-
DP/S7-8.5.0	FIRST	EQ	SB	7.820	1.127	-0.3	0.12	16.0	1.0000		-
DP/S7-8.6.0	FIRST	1	SB	7.393	0.365	-0.4	0.05	7.0	1.0000		-
DP/S7-8.6.0	FIRST	2	SB	7.598	0.739	-0.6	0.05	7.0	1.0000		-
DP/S7-8.6.0	FIRST	EQ	SB	7.834	1.149	-0.3	0.12	16.0	1.0000		-
DP/S8-9.1.0-1	FIRST	1	PS	7.357	0.308	0.0	0.05	7.0	1.0000		-
DP/S8-9.1.0-1	FIRST	2	PS	7.523	0.618	0.0	0.05	7.0	1.0000		-
DP/S8-9.1.0-1	FIRST	EQ	PS	7.716	0.964	0.0	0.12	16.0	1.0000		-
DP/S8-9.2.0	FIRST	1	SB	7.388	0.357	-0.4	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DP/S8-9.2.0	FIRST	2	SB	7.588	0.723	-0.5	0.05	7.0	1.0000		-
DP/S8-9.2.0	FIRST	EQ	SB	7.818	1.124	-0.2	0.12	16.0	1.0000		-
DP/S8-9.3.0	FIRST	1	SB	7.389	0.358	-0.4	0.05	7.0	1.0000		-
DP/S8-9.3.0	FIRST	2	SB	7.590	0.726	-0.5	0.05	7.0	1.0000		-
DP/S8-9.3.0	FIRST	EQ	SB	7.825	1.132	-0.2	0.12	16.0	1.0000		-
DP/S8-9.4.0	FIRST	1	SB	7.389	0.359	-0.5	0.05	7.0	1.0000		-
DP/S8-9.4.0	FIRST	2	SB	7.591	0.729	-0.6	0.05	7.0	1.0000		-
DP/S8-9.4.0	FIRST	EQ	SB	7.827	1.135	-0.3	0.12	16.0	1.0000		-
DP/S8-9.5.0	FIRST	1	SB	7.389	0.359	-0.5	0.05	7.0	1.0000		-
DP/S8-9.5.0	FIRST	2	SB	7.591	0.729	-0.6	0.05	7.0	1.0000		-
DP/S8-9.5.0	FIRST	EQ	SB	7.827	1.135	-0.3	0.12	16.0	1.0000		-
DP/S8-9.6.0	FIRST	1	SB	7.394	0.366	-0.4	0.05	7.0	1.0000		-
DP/S8-9.6.0	FIRST	2	SB	7.600	0.743	-0.5	0.05	7.0	1.0000		-
DP/S8-9.6.0	FIRST	EQ	SB	7.842	1.156	-0.3	0.12	16.0	1.0000		-
DP/S9-10.1.0.	FIRST	1	PS	7.386	0.236	0.0	0.05	7.0	1.0000		-
DP/S9-10.1.0.	FIRST	2	PS	7.583	0.468	1.5	0.05	7.0	1.0000		-
DP/S9-10.1.0.	FIRST	EQ	PS	7.837	0.735	0.0	0.12	16.0	1.0000		-
DP/S9-10.2.0	FIRST	1	SB	7.441	0.316	-1.9	0.05	7.0	1.0000		-
DP/S9-10.2.0	FIRST	2	SB	7.693	0.602	-3.6	0.05	7.0	1.0000		-
DP/S9-10.2.0	FIRST	EQ	SB	8.040	0.930	-1.8	0.12	14.7	0.9783		-
DP/S9-10.3.0	FIRST	1	SB	7.442	0.316	-1.9	0.05	7.0	1.0000		-
DP/S9-10.3.0	FIRST	2	SB	7.695	0.604	-3.6	0.05	7.0	1.0000		-
DP/S9-10.3.0	FIRST	EQ	SB	8.049	0.939	-1.9	0.12	14.6	0.9776		-
DP/S9-10.4.0	FIRST	1	SB	7.449	0.322	-2.0	0.05	7.0	1.0000		-
DP/S9-10.4.0	FIRST	2	SB	7.708	0.608	-3.9	0.05	7.0	1.0000		-
DP/S9-10.4.0	FIRST	EQ	SB	8.073	0.946	-2.2	0.12	14.2	0.9700		-
DP/S9-10.5.0	FIRST	1	SB	7.449	0.323	-2.0	0.05	7.0	1.0000		-
DP/S9-10.5.0	FIRST	2	SB	7.709	0.611	-3.9	0.05	7.0	1.0000		-
DP/S9-10.5.0	FIRST	EQ	SB	8.075	0.949	-2.2	0.12	14.1	0.9693		-
DP/S9-10.6.0	FIRST	1	SB	7.456	0.318	-2.0	0.05	7.0	1.0000		-
DP/S9-10.6.0	FIRST	2	SB	7.721	0.611	-3.9	0.05	7.0	1.0000		-
DP/S9-10.6.0	FIRST	EQ	SB	8.094	0.955	-2.2	0.12	14.1	0.9687		-
DP/S9-10.7.0	FIRST	1	SB	7.460	0.330	-1.9	0.05	7.0	1.0000		-
DP/S9-10.7.0	FIRST	2	SB	7.730	0.626	-3.8	0.05	7.0	1.0000		-
DP/S9-10.7.0	FIRST	EQ	SB	8.108	0.973	-2.2	0.12	14.1	0.9680		-
DP/S10-11.1..	FIRST	1	PS	7.422	-0.022	1.2	0.05	7.0	1.0000		-
DP/S10-11.1..	FIRST	2	PS	7.647	-0.057	3.5	0.05	7.0	1.0000		-
DP/S10-11.1..	FIRST	EQ	PS	7.986	-0.085	0.0	0.12	16.0	1.0000		-
DP/S10-11.2.0	FIRST	1	SB	7.409	-0.019	-5.8	0.05	7.0	1.0000		-
DP/S10-11.2.0	FIRST	2	SB	7.645	-0.062	-8.2	0.05	7.0	1.0000		-
DP/S10-11.2.0	FIRST	EQ	SB	8.111	-0.080	-4.6	0.05	7.0	1.0000		-
DP/S10-11.2.0	CROSS	1	SB	8.155	-0.084	-3.1	0.05	7.0	1.0000		409
DP/S10-11.2.0	CROSS	2	SB	8.155	-0.084	-3.1	0.05	7.0	1.0000		409
DP/S10-11.2.0	CROSS	EQ	SB	8.155	-0.084	-3.1	0.12	13.6	0.9597		409
DP/S10-11.3.0	FIRST	1	SB	7.415	-0.017	-5.9	0.05	7.0	1.0000		-
DP/S10-11.3.0	FIRST	2	SB	7.655	-0.058	-8.4	0.05	7.0	1.0000		-
DP/S10-11.3.0	FIRST	EQ	SB	8.132	-0.074	-4.9	0.05	7.0	1.0000		-
DP/S10-11.3.0	CROSS	1	SB	8.178	-0.079	-3.5	0.05	7.0	1.0000		411
DP/S10-11.3.0	CROSS	2	SB	8.178	-0.079	-3.5	0.05	7.0	1.0000		411
DP/S10-11.3.0	CROSS	EQ	SB	8.178	-0.079	-3.5	0.12	13.1	0.9507		411
DP/S10-11.4.0	FIRST	1	SB	7.439	-0.018	-5.4	0.05	7.0	1.0000		-
DP/S10-11.4.0	FIRST	2	SB	7.690	-0.061	-8.2	0.05	7.0	1.0000		-
DP/S10-11.4.0	FIRST	EQ	SB	8.183	-0.082	-4.7	0.05	7.0	1.0000		-
DP/S10-11.4.0	CROSS	1	SB	8.226	-0.087	-3.3	0.05	7.0	1.0000		408

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DP/S10-11.4.0	CROSS	2	SB	8.226	-0.087	-3.3	0.05	7.0	1.0000		408
DP/S10-11.4.0	CROSS	EQ	SB	8.226	-0.087	-3.3	0.12	13.1	0.9508		408
DP/S11-12.1..	FIRST	1	PS	7.437	-0.226	1.7	0.05	7.0	1.0000		-
DP/S11-12.1..	FIRST	2	PS	7.654	-0.495	5.4	0.05	7.0	1.0000		-
DP/S11-12.1..	FIRST	EQ	PS	8.076	-0.820	0.0	0.12	16.0	1.0000		-
DP/S11-12.2.0	FIRST	1	SB	7.427	-0.359	-6.9	0.05	7.0	1.0000		-
DP/S11-12.2.0	FIRST	2	SB	7.644	-0.731	-10.8	0.05	6.8	0.9913		-
DP/S11-12.2.0	FIRST	EQ	SB	8.218	-1.130	-7.5	0.05	7.0	1.0000		-
DP/S11-12.2.0	CROSS	1	SB	8.285	-1.134	-5.8	0.05	7.0	1.0000		428
DP/S11-12.2.0	CROSS	2	SB	8.285	-1.134	-5.8	0.05	7.0	1.0000		428
DP/S11-12.2.0	CROSS	EQ	SB	8.285	-1.134	-5.8	0.12	9.8	0.8846		428
DP/S11-12.3.0	FIRST	1	SB	7.460	-0.367	-6.2	0.05	7.0	1.0000		-
DP/S11-12.3.0	FIRST	2	SB	7.683	-0.760	-10.6	0.05	6.8	0.9931		-
DP/S11-12.3.0	FIRST	EQ	SB	8.286	-1.177	-7.1	0.05	7.0	1.0000		-
DP/S11-12.3.0	CROSS	1	SB	8.347	-1.182	-5.5	0.05	7.0	1.0000		422
DP/S11-12.3.0	CROSS	2	SB	8.347	-1.182	-5.5	0.05	7.0	1.0000		422
DP/S11-12.3.0	CROSS	EQ	SB	8.347	-1.182	-5.5	0.12	9.9	0.8879		422
DP/S12-13.1..	FIRST	1	SB	7.307	-0.194	-1.3	0.05	7.0	1.0000		-
DP/S12-13.1..	FIRST	2	SB	7.413	-0.418	-3.3	0.05	7.0	1.0000		-
DP/S12-13.1..	FIRST	EQ	SB	7.577	-0.752	-4.4	0.12	13.9	0.9654		-
DP/S12-13.2..	FIRST	1	SB	7.363	-0.344	-1.6	0.05	7.0	1.0000		-
DP/S12-13.2..	FIRST	2	SB	7.521	-0.722	-4.1	0.05	7.0	1.0000		-
DP/S12-13.2..	FIRST	EQ	SB	7.791	-1.235	-3.9	0.12	13.9	0.9647		-
DP/S12-13.3..	FIRST	1	SB	7.403	-0.471	-3.9	0.05	7.0	1.0000		-
DP/S12-13.3..	FIRST	2	SB	7.555	-0.994	-8.4	0.05	7.0	1.0000		-
DP/S12-13.3..	FIRST	EQ	SB	7.876	-1.697	-9.7	0.12	7.1	0.6625		-
DP/S12-13.4..	FIRST	1	SB	7.403	-0.471	-3.9	0.05	7.0	1.0000		-
DP/S12-13.4..	FIRST	2	SB	7.555	-0.994	-8.4	0.05	7.0	1.0000		-
DP/S12-13.4..	FIRST	EQ	SB	7.876	-1.697	-9.7	0.12	7.1	0.6625		-
DP/S13-14.1..	FIRST	1	SB	7.316	-0.374	-1.1	0.05	7.0	1.0000		-
DP/S13-14.1..	FIRST	2	SB	7.440	-0.799	-2.6	0.05	7.0	1.0000		-
DP/S13-14.1..	FIRST	EQ	SB	7.588	-1.457	-6.7	0.05	7.0	1.0000		-
DP/S13-14.1..	CROSS	1	SB	7.652	-1.562	-5.5	0.05	7.0	1.0000		1417
DP/S13-14.1..	CROSS	2	SB	7.725	-1.675	-3.5	0.05	7.0	1.0000		1417
DP/S13-14.1..	CROSS	EQ	SB	7.725	-1.675	-3.5	0.12	12.9	0.9468		1417
DP/S13-14.2.0	FIRST	1	SB	7.396	-0.571	-1.2	0.05	7.0	1.0000		-
DP/S13-14.2.0	FIRST	2	SB	7.594	-1.244	-3.9	0.05	7.0	1.0000		-
DP/S13-14.2.0	FIRST	EQ	SB	7.896	-2.168	-5.9	0.05	7.0	1.0000		-
DP/S13-14.2.0	CROSS	1	SB	7.967	-2.292	-4.4	0.05	7.0	1.0000		1334
DP/S13-14.2.0	CROSS	2	SB	8.032	-2.408	-2.6	0.05	7.0	1.0000		1334
DP/S13-14.2.0	CROSS	EQ	SB	8.032	-2.408	-2.6	0.12	12.4	0.9376		1334
DP/S13-14.3..	FIRST	1	SB	7.389	-0.609	-2.8	0.05	7.0	1.0000		-
DP/S13-14.3..	FIRST	2	SB	7.568	-1.270	-5.8	0.05	7.0	1.0000		-
DP/S13-14.3..	FIRST	EQ	SB	7.845	-2.223	-8.5	0.05	6.9	0.9967		-
DP/S13-14.3..	CROSS	1	SB	7.924	-2.342	-7.2	0.05	7.0	1.0000		1412
DP/S13-14.3..	CROSS	2	SB	7.997	-2.445	-5.7	0.05	7.0	1.0000		1412
DP/S13-14.3..	CROSS	EQ	SB	7.997	-2.445	-5.7	0.12	9.2	0.8702		1412
DP/S13-14.4..	FIRST	1	SB	7.415	-0.688	-2.4	0.05	7.0	1.0000		-
DP/S13-14.4..	FIRST	2	SB	7.624	-1.429	-5.4	0.05	7.0	1.0000		-
DP/S13-14.4..	FIRST	EQ	SB	7.935	-2.454	-8.1	0.05	6.9	0.9950		-
DP/S13-14.4..	CROSS	1	SB	8.012	-2.576	-6.8	0.05	7.0	1.0000		1384
DP/S13-14.4..	CROSS	2	SB	8.082	-2.678	-5.4	0.05	7.0	1.0000		1384
DP/S13-14.4..	CROSS	EQ	SB	8.082	-2.678	-5.4	0.12	9.1	0.8677		1384
DP/S14-15.1.0	FIRST	1	SB	7.428	-0.832	-0.9	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DP/S14-15.1.0	FIRST	2	SB	7.684	-1.794	-2.3	0.05	7.0	1.0000		-
DP/S14-15.1.0	FIRST	EQ	SB	8.147	-3.510	-3.4	0.05	7.0	1.0000		-
DP/S14-15.1.0	CROSS	1	SB	8.213	-3.669	-1.6	0.05	7.0	1.0000		1231
DP/S14-15.1.0	CROSS	2	PS	8.257	-3.791	0.0	0.05	7.0	1.0000		1231
DP/S14-15.1.0	CROSS	EQ	PS	8.257	-3.791	0.0	0.12	16.0	1.0000		1231
DP/S14-15.2.0	FIRST	1	SB	7.451	-0.925	-0.7	0.05	7.0	1.0000		-
DP/S14-15.2.0	FIRST	2	SB	7.735	-1.987	-2.1	0.05	7.0	1.0000		-
DP/S14-15.2.0	FIRST	EQ	SB	8.241	-3.859	-3.2	0.05	7.0	1.0000		-
DP/S14-15.2.0	CROSS	1	SB	8.307	-4.020	-1.5	0.05	7.0	1.0000		1216
DP/S14-15.2.0	CROSS	2	PS	8.348	-4.136	0.0	0.05	7.0	1.0000		1216
DP/S14-15.2.0	CROSS	EQ	PS	8.348	-4.136	0.0	0.12	16.0	1.0000		1216
DP/S15-16.1.0	FIRST	1	PS	7.420	-0.924	0.0	0.05	7.0	1.0000		-
DP/S15-16.1.0	FIRST	2	PS	7.678	-2.036	0.0	0.05	7.0	1.0000		-
DP/S15-16.1.0	FIRST	EQ	PS	8.203	-4.393	0.0	0.12	12.6	0.9421		-
DP/S15-16.2.0	FIRST	1	PS	7.420	-0.924	0.0	0.05	7.0	1.0000		-
DP/S15-16.2.0	FIRST	2	PS	7.678	-2.036	0.0	0.05	7.0	1.0000		-
DP/S15-16.2.0	FIRST	EQ	PS	8.203	-4.393	0.0	0.12	12.6	0.9421		-
DP/S16-17.1..	FIRST	1	PS	7.333	-0.653	0.0	0.05	7.0	1.0000		-
DP/S16-17.1..	FIRST	2	PS	7.484	-1.411	0.0	0.05	7.0	1.0000		-
DP/S16-17.1..	FIRST	EQ	PS	7.752	-2.788	0.0	0.12	16.0	1.0000		-
DP/S16-17.2..	FIRST	1	PS	7.333	-0.653	0.0	0.05	7.0	1.0000		-
DP/S16-17.2..	FIRST	2	PS	7.484	-1.411	0.0	0.05	7.0	1.0000		-
DP/S16-17.2..	FIRST	EQ	PS	7.752	-2.788	0.0	0.12	16.0	1.0000		-
DP/S17-18.1..	FIRST	1	PS	7.258	-0.332	0.0	0.05	7.0	1.0000		-
DP/S17-18.1..	FIRST	2	PS	7.320	-0.676	0.0	0.05	7.0	1.0000		-
DP/S17-18.1..	FIRST	EQ	PS	7.398	-1.111	0.0	0.12	16.0	1.0000		-
DP/S1-3.1.0-1	FIRST	1	SB	7.259	0.477	-0.7	0.05	7.0	1.0000		-
DP/S1-3.1.0-1	FIRST	2	SB	7.326	1.072	-2.0	0.05	7.0	1.0000		-
DP/S1-3.1.0-1	FIRST	EQ	SB	7.455	2.383	-4.2	0.05	7.0	1.0000		-
DP/S1-3.1.0-1	INT1	1	SB	7.455	2.383	-4.2	0.05	7.0	1.0000		-
DP/S1-3.1.0-1	INT1	2	SB	7.455	2.383	-4.2	0.05	7.0	1.0000		-
DP/S1-3.1.0-1	INT1	EQ	SB	7.455	2.383	-4.2	0.05	7.0	1.0000		-
DP/S1-3.1.0-1	INT2	1	SB	7.455	2.384	-4.2	0.05	7.0	1.0000		-
DP/S1-3.1.0-1	INT2	2	SB	7.455	2.384	-4.2	0.05	7.0	1.0000		-
DP/S1-3.1.0-1	INT2	EQ	SB	7.455	2.383	-4.2	0.12	11.3	0.9172		-
DP/S1-3.2.0-1	FIRST	1	SB	7.259	0.477	-0.7	0.05	7.0	1.0000		-
DP/S1-3.2.0-1	FIRST	2	SB	7.326	1.072	-2.0	0.05	7.0	1.0000		-
DP/S1-3.2.0-1	FIRST	EQ	SB	7.455	2.383	-4.2	0.05	7.0	1.0000		-
DP/S1-3.2.0-1	INT1	1	SB	7.455	2.383	-4.2	0.05	7.0	1.0000		-
DP/S1-3.2.0-1	INT1	2	SB	7.455	2.383	-4.2	0.05	7.0	1.0000		-
DP/S1-3.2.0-1	INT1	EQ	SB	7.455	2.383	-4.2	0.05	7.0	1.0000		-
DP/S1-3.2.0-1	INT2	1	SB	7.455	2.384	-4.2	0.05	7.0	1.0000		-
DP/S1-3.2.0-1	INT2	2	SB	7.455	2.384	-4.2	0.05	7.0	1.0000		-
DP/S1-3.2.0-1	INT2	EQ	SB	7.455	2.383	-4.2	0.12	11.3	0.9172		-
DP/S1-3.3.0	FIRST	1	SB	7.264	0.509	-0.7	0.05	7.0	1.0000		-
DP/S1-3.3.0	FIRST	2	SB	7.337	1.146	-1.9	0.05	7.0	1.0000		-
DP/S1-3.3.0	FIRST	EQ	SB	7.479	2.555	-4.1	0.05	7.0	1.0000		-
DP/S1-3.3.0	INT1	1	SB	7.479	2.555	-4.1	0.05	7.0	1.0000		-
DP/S1-3.3.0	INT1	2	SB	7.479	2.555	-4.1	0.05	7.0	1.0000		-
DP/S1-3.3.0	INT1	EQ	SB	7.479	2.555	-4.1	0.05	7.0	1.0000		-
DP/S1-3.3.0	INT2	1	SB	7.479	2.555	-4.1	0.05	7.0	1.0000		-
DP/S1-3.3.0	INT2	2	SB	7.479	2.555	-4.1	0.05	7.0	1.0000		-
DP/S1-3.3.0	INT2	EQ	SB	7.479	2.555	-4.1	0.12	11.1	0.9135		-
DP/S1-3.4.0	FIRST	1	SB	7.279	0.615	-0.9	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FACSOL	CROSSTM s
DP/S1-3.4.0	FIRST	2	SB	7.364	1.375	-2.6	0.05	7.0	1.0000	-
DP/S1-3.4.0	FIRST	EQ	SB	7.529	3.091	-5.3	0.05	7.0	1.0000	-
DP/S1-3.4.0	INT2	1	SB	7.531	3.063	-5.0	0.05	7.0	1.0000	-
DP/S1-3.4.0	INT2	2	SB	7.531	3.063	-5.0	0.05	7.0	1.0000	-
DP/S1-3.4.0	INT2	EQ	SB	7.529	3.091	-5.3	0.12	9.2	0.8706	-
DP/S2-4.1.0	FIRST	1	SB	7.305	0.691	-0.9	0.05	7.0	1.0000	-
DP/S2-4.1.0	FIRST	2	SB	7.401	1.530	-4.0	0.05	7.0	1.0000	-
DP/S2-4.1.0	FIRST	EQ	SB	7.603	3.077	-5.1	0.05	7.0	1.0000	-
DP/S2-4.1.0	INT1	1	SB	7.603	3.077	-5.1	0.05	7.0	1.0000	-
DP/S2-4.1.0	INT1	2	SB	7.603	3.077	-5.1	0.05	7.0	1.0000	-
DP/S2-4.1.0	INT1	EQ	SB	7.603	3.077	-5.1	0.05	7.0	1.0000	-
DP/S2-4.1.0	INT2	1	SB	7.605	3.050	-4.8	0.05	7.0	1.0000	-
DP/S2-4.1.0	INT2	2	SB	7.605	3.050	-4.8	0.05	7.0	1.0000	-
DP/S2-4.1.0	INT2	EQ	SB	7.603	3.077	-5.1	0.12	10.0	0.8886	-
DP/S4-6.1.0	FIRST	1	SB	7.408	0.746	-0.2	0.05	7.0	1.0000	-
DP/S4-6.1.0	FIRST	2	SB	7.622	1.506	-2.2	0.05	7.0	1.0000	-
DP/S4-6.1.0	FIRST	EQ	SB	7.902	2.354	-1.2	0.12	13.2	0.9528	-
DP/S5-7.1.0-1	FIRST	1	PS	7.344	0.458	0.0	0.05	7.0	1.0000	-
DP/S5-7.1.0-1	FIRST	2	PS	7.496	0.933	0.0	0.05	7.0	1.0000	-
DP/S5-7.1.0-1	FIRST	EQ	PS	7.676	1.452	0.0	0.12	16.0	1.0000	-
DP/S5-7.2.0	FIRST	1	SB	7.400	0.525	-0.4	0.05	7.0	1.0000	-
DP/S5-7.2.0	FIRST	2	SB	7.612	1.160	-1.1	0.05	7.0	1.0000	-
DP/S5-7.2.0	FIRST	EQ	SB	7.887	1.875	-0.3	0.12	14.5	0.9754	-
DP/S5-7.3.0	FIRST	1	SB	7.401	0.526	-0.4	0.05	7.0	1.0000	-
DP/S5-7.3.0	FIRST	2	SB	7.615	1.167	-1.1	0.05	7.0	1.0000	-
DP/S5-7.3.0	FIRST	EQ	SB	7.898	1.912	-0.3	0.12	14.3	0.9726	-
DP/S5-7.4.0	FIRST	1	SB	7.401	0.527	-0.5	0.05	7.0	1.0000	-
DP/S5-7.4.0	FIRST	2	SB	7.615	1.170	-1.2	0.05	7.0	1.0000	-
DP/S5-7.4.0	FIRST	EQ	SB	7.900	1.916	-0.4	0.12	14.2	0.9714	-
DP/S5-7.5.0	FIRST	1	SB	7.404	0.538	-0.5	0.05	7.0	1.0000	-
DP/S5-7.5.0	FIRST	2	SB	7.622	1.190	-1.1	0.05	7.0	1.0000	-
DP/S5-7.5.0	FIRST	EQ	SB	7.911	1.947	-0.3	0.12	14.1	0.9686	-
DP/S6-8.1.0-1	FIRST	1	PS	7.249	0.128	0.0	0.05	7.0	1.0000	-
DP/S6-8.1.0-1	FIRST	2	PS	7.299	0.257	0.0	0.05	7.0	1.0000	-
DP/S6-8.1.0-1	FIRST	EQ	PS	7.351	0.390	0.0	0.12	16.0	1.0000	-
DP/S6-8.2.0	FIRST	1	SB	7.499	0.737	-1.4	0.05	7.0	1.0000	-
DP/S6-8.2.0	FIRST	2	SB	7.816	1.494	-3.2	0.05	7.0	1.0000	-
DP/S6-8.2.0	FIRST	EQ	SB	8.265	2.415	-0.5	0.12	6.8	0.8068	-
DP/S6-8.3.0	FIRST	1	SB	7.499	0.737	-1.4	0.05	7.0	1.0000	-
DP/S6-8.3.0	FIRST	2	SB	7.816	1.494	-3.2	0.05	7.0	1.0000	-
DP/S6-8.3.0	FIRST	EQ	SB	8.265	2.415	-0.5	0.12	6.8	0.8068	-
DP/S6-8.4.0	FIRST	1	SB	7.499	0.739	-1.6	0.05	7.0	1.0000	-
DP/S6-8.4.0	FIRST	2	SB	7.817	1.499	-3.3	0.05	7.0	1.0000	-
DP/S6-8.4.0	FIRST	EQ	SB	8.269	2.423	-0.6	0.12	6.7	0.8031	-
DP/S6-8.5.0	FIRST	1	SB	7.501	0.746	-1.5	0.05	7.0	1.0000	-
DP/S6-8.5.0	FIRST	2	SB	7.821	1.509	-3.3	0.05	7.0	1.0000	-
DP/S6-8.5.0	FIRST	EQ	SB	8.275	2.438	-0.5	0.12	6.6	0.8003	-
DP/S6-8.6.0	FIRST	1	SB	7.506	0.748	-1.5	0.05	7.0	1.0000	-
DP/S6-8.6.0	FIRST	2	SB	7.830	1.520	-3.2	0.05	7.0	1.0000	-
DP/S6-8.6.0	FIRST	EQ	SB	8.290	2.461	-0.5	0.12	6.4	0.7947	-
DP/S7-9.1.0-1	FIRST	1	PS	7.357	0.308	0.0	0.05	7.0	1.0000	-
DP/S7-9.1.0-1	FIRST	2	PS	7.523	0.618	0.0	0.05	7.0	1.0000	-
DP/S7-9.1.0-1	FIRST	EQ	PS	7.716	0.964	0.0	0.12	16.0	1.0000	-
DP/S7-9.2.0	FIRST	1	SB	7.388	0.357	-0.4	0.05	7.0	1.0000	-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DP/S7-9.2.0	FIRST	2	SB	7.588	0.723	-0.5	0.05	7.0	1.0000		-
DP/S7-9.2.0	FIRST	EQ	SB	7.818	1.124	-0.2	0.12	16.0	1.0000		-
DP/S7-9.3.0	FIRST	1	SB	7.389	0.358	-0.4	0.05	7.0	1.0000		-
DP/S7-9.3.0	FIRST	2	SB	7.590	0.726	-0.5	0.05	7.0	1.0000		-
DP/S7-9.3.0	FIRST	EQ	SB	7.825	1.132	-0.2	0.12	16.0	1.0000		-
DP/S7-9.4.0	FIRST	1	SB	7.389	0.359	-0.5	0.05	7.0	1.0000		-
DP/S7-9.4.0	FIRST	2	SB	7.591	0.729	-0.6	0.05	7.0	1.0000		-
DP/S7-9.4.0	FIRST	EQ	SB	7.827	1.135	-0.3	0.12	16.0	1.0000		-
DP/S7-9.5.0	FIRST	1	SB	7.389	0.359	-0.5	0.05	7.0	1.0000		-
DP/S7-9.5.0	FIRST	2	SB	7.591	0.729	-0.6	0.05	7.0	1.0000		-
DP/S7-9.5.0	FIRST	EQ	SB	7.827	1.135	-0.3	0.12	16.0	1.0000		-
DP/S7-9.6.0	FIRST	1	SB	7.394	0.366	-0.4	0.05	7.0	1.0000		-
DP/S7-9.6.0	FIRST	2	SB	7.600	0.743	-0.5	0.05	7.0	1.0000		-
DP/S7-9.6.0	FIRST	EQ	SB	7.842	1.156	-0.3	0.12	16.0	1.0000		-
DP/S8-10.1.0	FIRST	1	PS	7.478	0.409	0.9	0.05	7.0	1.0000		-
DP/S8-10.1.0	FIRST	2	PS	7.771	0.814	3.0	0.05	7.0	1.0000		-
DP/S8-10.1.0	FIRST	EQ	PS	8.184	1.297	0.0	0.12	15.8	0.9963		-
DP/S8-10.2.0	FIRST	1	SB	7.477	0.401	-3.3	0.05	7.0	1.0000		-
DP/S8-10.2.0	FIRST	2	SB	7.762	0.810	-5.8	0.05	7.0	1.0000		-
DP/S8-10.2.0	FIRST	EQ	SB	8.232	1.322	-2.4	0.12	13.7	0.9618		-
DP/S8-10.3.0	FIRST	1	SB	7.477	0.401	-3.3	0.05	7.0	1.0000		-
DP/S8-10.3.0	FIRST	2	SB	7.765	0.813	-5.7	0.05	7.0	1.0000		-
DP/S8-10.3.0	FIRST	EQ	SB	8.243	1.333	-2.4	0.12	13.6	0.9610		-
DP/S8-10.4.0	FIRST	1	SB	7.483	0.406	-3.5	0.05	7.0	1.0000		-
DP/S8-10.4.0	FIRST	2	SB	7.774	0.816	-6.1	0.05	7.0	1.0000		-
DP/S8-10.4.0	FIRST	EQ	SB	8.267	1.341	-2.8	0.12	13.1	0.9515		-
DP/S8-10.5.0	FIRST	1	SB	7.483	0.407	-3.5	0.05	7.0	1.0000		-
DP/S8-10.5.0	FIRST	2	SB	7.774	0.818	-6.2	0.05	7.0	1.0000		-
DP/S8-10.5.0	FIRST	EQ	SB	8.269	1.344	-2.8	0.12	13.1	0.9506		-
DP/S8-10.6.0	FIRST	1	SB	7.491	0.400	-3.4	0.05	7.0	1.0000		-
DP/S8-10.6.0	FIRST	2	SB	7.789	0.817	-6.0	0.05	7.0	1.0000		-
DP/S8-10.6.0	FIRST	EQ	SB	8.289	1.351	-2.8	0.12	13.1	0.9503		-
DP/S8-10.7.0	FIRST	1	SB	7.497	0.412	-3.3	0.05	7.0	1.0000		-
DP/S8-10.7.0	FIRST	2	SB	7.801	0.834	-5.9	0.05	7.0	1.0000		-
DP/S8-10.7.0	FIRST	EQ	SB	8.305	1.372	-2.7	0.12	13.0	0.9500		-
DP/S9-11.1.0	FIRST	1	SB	7.511	0.262	-6.0	0.05	7.0	1.0000		-
DP/S9-11.1.0	FIRST	2	SB	7.856	0.416	-9.2	0.05	7.0	1.0000		-
DP/S9-11.1.0	FIRST	EQ	SB	8.618	0.622	-1.6	0.05	7.0	1.0000		-
DP/S9-11.1.0	CROSS	1	PS	8.646	0.612	0.0	0.05	7.0	1.0000		374
DP/S9-11.1.0	CROSS	2	PS	8.646	0.611	0.0	0.05	7.0	1.0000		374
DP/S9-11.1.0	CROSS	EQ	PS	8.646	0.611	0.0	0.12	14.4	0.9738		374
DP/S9-11.2.0	FIRST	1	SB	7.473	0.209	-8.6	0.05	7.0	1.0000		-
DP/S9-11.2.0	FIRST	2	SB	7.833	0.406	-11.4	0.05	5.4	0.9358		-
DP/S9-11.2.0	FIRST	EQ	SB	8.680	0.635	-4.9	0.05	7.0	1.0000		-
DP/S9-11.2.0	CROSS	1	SB	8.726	0.622	-3.4	0.05	7.0	1.0000		393
DP/S9-11.2.0	CROSS	2	SB	8.726	0.622	-3.4	0.05	7.0	1.0000		393
DP/S9-11.2.0	CROSS	EQ	SB	8.726	0.622	-3.4	0.12	10.8	0.9058		393
DP/S9-11.3.0	FIRST	1	SB	7.473	0.210	-8.6	0.05	7.0	1.0000		-
DP/S9-11.3.0	FIRST	2	SB	7.838	0.407	-11.3	0.05	5.4	0.9373		-
DP/S9-11.3.0	FIRST	EQ	SB	8.695	0.649	-4.9	0.05	7.0	1.0000		-
DP/S9-11.3.0	CROSS	1	SB	8.741	0.635	-3.4	0.05	7.0	1.0000		392
DP/S9-11.3.0	CROSS	2	SB	8.741	0.635	-3.4	0.05	7.0	1.0000		392
DP/S9-11.3.0	CROSS	EQ	SB	8.741	0.635	-3.4	0.12	10.7	0.9044		392
DP/S9-11.4.0	FIRST	1	SB	7.478	0.212	-8.7	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DP/S9-11.4.0	FIRST	2	SB	7.848	0.412	-11.5	0.05	5.2	0.9273		-
DP/S9-11.4.0	FIRST	EQ	SB	8.717	0.657	-5.3	0.05	7.0	1.0000		-
DP/S9-11.4.0	CROSS	1	SB	8.765	0.643	-3.8	0.05	7.0	1.0000		394
DP/S9-11.4.0	CROSS	2	SB	8.765	0.643	-3.8	0.05	7.0	1.0000		394
DP/S9-11.4.0	CROSS	EQ	SB	8.765	0.643	-3.8	0.12	10.2	0.8932		394
DP/S9-11.5.0	FIRST	1	SB	7.478	0.214	-8.7	0.05	7.0	1.0000		-
DP/S9-11.5.0	FIRST	2	SB	7.849	0.415	-11.5	0.05	5.1	0.9259		-
DP/S9-11.5.0	FIRST	EQ	SB	8.718	0.660	-5.3	0.05	7.0	1.0000		-
DP/S9-11.5.0	CROSS	1	SB	8.767	0.646	-3.8	0.05	7.0	1.0000		394
DP/S9-11.5.0	CROSS	2	SB	8.767	0.646	-3.8	0.05	7.0	1.0000		394
DP/S9-11.5.0	CROSS	EQ	SB	8.767	0.646	-3.8	0.12	10.1	0.8921		394
DP/S9-11.6.0	FIRST	1	SB	7.512	0.201	-8.0	0.05	7.0	1.0000		-
DP/S9-11.6.0	FIRST	2	SB	7.882	0.403	-11.4	0.05	5.2	0.9268		-
DP/S9-11.6.0	FIRST	EQ	SB	8.772	0.653	-5.0	0.05	7.0	1.0000		-
DP/S9-11.6.0	CROSS	1	SB	8.818	0.639	-3.6	0.05	7.0	1.0000		391
DP/S9-11.6.0	CROSS	2	SB	8.818	0.639	-3.6	0.05	7.0	1.0000		391
DP/S9-11.6.0	CROSS	EQ	SB	8.818	0.639	-3.6	0.12	10.1	0.8924		391
DP/S9-11.7.0	FIRST	1	SB	7.522	0.220	-7.8	0.05	7.0	1.0000		-
DP/S9-11.7.0	FIRST	2	SB	7.892	0.421	-11.3	0.05	5.2	0.9264		-
DP/S9-11.7.0	FIRST	EQ	SB	8.789	0.670	-4.9	0.05	7.0	1.0000		-
DP/S9-11.7.0	CROSS	1	SB	8.834	0.657	-3.6	0.05	7.0	1.0000		391
DP/S9-11.7.0	CROSS	2	SB	8.834	0.657	-3.6	0.05	7.0	1.0000		391
DP/S9-11.7.0	CROSS	EQ	SB	8.834	0.657	-3.6	0.12	10.1	0.8921		391
DP/S10-12.1.0	FIRST	1	SB	7.432	-0.217	-8.0	0.05	7.0	1.0000		-
DP/S10-12.1.0	FIRST	2	SB	7.719	-0.452	-11.2	0.05	6.1	0.9670		-
DP/S10-12.1.0	FIRST	EQ	SB	8.539	-0.744	-3.3	0.05	7.0	1.0000		-
DP/S10-12.1.0	CROSS	1	PS	8.586	-0.752	0.0	0.05	7.0	1.0000		380
DP/S10-12.1.0	CROSS	2	PS	8.586	-0.752	0.0	0.05	7.0	1.0000		380
DP/S10-12.1.0	CROSS	EQ	PS	8.586	-0.752	0.0	0.12	15.0	0.9832		380
DP/S11-13.1..	FIRST	1	SB	7.430	-0.271	-3.7	0.05	7.0	1.0000		-
DP/S11-13.1..	FIRST	2	SB	7.610	-0.624	-8.7	0.05	7.0	1.0000		-
DP/S11-13.1..	FIRST	EQ	SB	8.036	-1.232	-10.5	0.08	6.1	0.5300		-
DP/S11-13.2..	FIRST	1	SB	7.462	-0.426	-5.2	0.05	7.0	1.0000		-
DP/S11-13.2..	FIRST	2	SB	7.690	-0.928	-9.9	0.05	7.0	1.0000		-
DP/S11-13.2..	FIRST	EQ	SB	8.314	-1.656	-8.5	0.09	7.4	0.6967		-
DP/S16-18.1..	FIRST	1	PS	7.355	-0.802	0.0	0.05	7.0	1.0000		-
DP/S16-18.1..	FIRST	2	PS	7.533	-1.726	0.0	0.05	7.0	1.0000		-
DP/S16-18.1..	FIRST	EQ	PS	7.868	-3.493	0.0	0.12	16.0	1.0000		-
DP/S16-18.2..	FIRST	1	PS	7.355	-0.802	0.0	0.05	7.0	1.0000		-
DP/S16-18.2..	FIRST	2	PS	7.533	-1.726	0.0	0.05	7.0	1.0000		-
DP/S16-18.2..	FIRST	EQ	PS	7.868	-3.493	0.0	0.12	16.0	1.0000		-
DP/S4-7.1.0	FIRST	1	SB	7.443	0.712	-0.1	0.05	7.0	1.0000		-
DP/S4-7.1.0	FIRST	2	SB	7.688	1.555	-1.8	0.05	7.0	1.0000		-
DP/S4-7.1.0	FIRST	EQ	SB	7.999	2.506	-1.2	0.12	12.6	0.9418		-
DP/S5-8.1.0	FIRST	1	PS	7.396	0.510	0.0	0.05	7.0	1.0000		-
DP/S5-8.1.0	FIRST	2	PS	7.597	1.124	0.0	0.05	7.0	1.0000		-
DP/S5-8.1.0	FIRST	EQ	PS	7.833	1.785	0.0	0.12	15.9	0.9988		-
DP/S5-8.2.0	FIRST	1	SB	7.499	0.743	-1.4	0.05	7.0	1.0000		-
DP/S5-8.2.0	FIRST	2	SB	7.817	1.501	-3.2	0.05	7.0	1.0000		-
DP/S5-8.2.0	FIRST	EQ	SB	8.268	2.424	-0.5	0.12	13.2	0.9534		-
DP/S5-8.3.0	FIRST	1	SB	7.500	0.744	-1.4	0.05	7.0	1.0000		-
DP/S5-8.3.0	FIRST	2	SB	7.821	1.509	-3.2	0.05	7.0	1.0000		-
DP/S5-8.3.0	FIRST	EQ	SB	8.283	2.474	-0.5	0.12	13.1	0.9514		-
DP/S5-8.4.0	FIRST	1	SB	7.500	0.746	-1.6	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOL	CROSS	TM s
DP/S5-8.4.0	FIRST	2	SB	7.822	1.513	-3.3	0.05	7.0	1.0000			-
DP/S5-8.4.0	FIRST	EQ	SB	8.287	2.482	-0.6	0.12	13.0	0.9497			-
DP/S5-8.5.0	FIRST	1	SB	7.503	0.760	-1.5	0.05	7.0	1.0000			-
DP/S5-8.5.0	FIRST	2	SB	7.829	1.535	-3.2	0.05	7.0	1.0000			-
DP/S5-8.5.0	FIRST	EQ	SB	8.298	2.512	-0.5	0.12	12.9	0.9484			-
DP/S5-8.6.0	FIRST	1	SB	7.508	0.762	-1.5	0.05	7.0	1.0000			-
DP/S5-8.6.0	FIRST	2	SB	7.839	1.546	-3.2	0.05	7.0	1.0000			-
DP/S5-8.6.0	FIRST	EQ	SB	8.314	2.536	-0.5	0.12	12.9	0.9471			-
DP/S6-9.1.0-1	FIRST	1	PS	7.357	0.308	0.0	0.05	7.0	1.0000			-
DP/S6-9.1.0-1	FIRST	2	PS	7.523	0.618	0.0	0.05	7.0	1.0000			-
DP/S6-9.1.0-1	FIRST	EQ	PS	7.716	0.964	0.0	0.12	16.0	1.0000			-
DP/S6-9.2.0	FIRST	1	SB	7.499	0.737	-1.4	0.05	7.0	1.0000			-
DP/S6-9.2.0	FIRST	2	SB	7.816	1.494	-3.2	0.05	7.0	1.0000			-
DP/S6-9.2.0	FIRST	EQ	SB	8.265	2.415	-0.5	0.12	6.8	0.8068			-
DP/S6-9.3.0	FIRST	1	SB	7.499	0.738	-1.4	0.05	7.0	1.0000			-
DP/S6-9.3.0	FIRST	2	SB	7.819	1.500	-3.2	0.05	7.0	1.0000			-
DP/S6-9.3.0	FIRST	EQ	SB	8.278	2.428	-0.5	0.12	6.6	0.8024			-
DP/S6-9.4.0	FIRST	1	SB	7.500	0.740	-1.6	0.05	7.0	1.0000			-
DP/S6-9.4.0	FIRST	2	SB	7.820	1.505	-3.3	0.05	7.0	1.0000			-
DP/S6-9.4.0	FIRST	EQ	SB	8.281	2.436	-0.6	0.12	6.5	0.7987			-
DP/S6-9.5.0	FIRST	1	SB	7.501	0.747	-1.5	0.05	7.0	1.0000			-
DP/S6-9.5.0	FIRST	2	SB	7.823	1.515	-3.3	0.05	7.0	1.0000			-
DP/S6-9.5.0	FIRST	EQ	SB	8.288	2.452	-0.5	0.12	6.4	0.7959			-
DP/S6-9.6.0	FIRST	1	SB	7.506	0.749	-1.5	0.05	7.0	1.0000			-
DP/S6-9.6.0	FIRST	2	SB	7.833	1.526	-3.2	0.05	7.0	1.0000			-
DP/S6-9.6.0	FIRST	EQ	SB	8.303	2.475	-0.5	0.12	6.2	0.7902			-
DP/S7-10.1.0	FIRST	1	PS	7.478	0.409	0.9	0.05	7.0	1.0000			-
DP/S7-10.1.0	FIRST	2	PS	7.771	0.814	3.0	0.05	7.0	1.0000			-
DP/S7-10.1.0	FIRST	EQ	PS	8.184	1.297	0.0	0.12	15.8	0.9963			-
DP/S7-10.2.0	FIRST	1	SB	7.477	0.401	-3.3	0.05	7.0	1.0000			-
DP/S7-10.2.0	FIRST	2	SB	7.762	0.810	-5.8	0.05	7.0	1.0000			-
DP/S7-10.2.0	FIRST	EQ	SB	8.232	1.322	-2.4	0.12	13.7	0.9618			-
DP/S7-10.3.0	FIRST	1	SB	7.477	0.401	-3.3	0.05	7.0	1.0000			-
DP/S7-10.3.0	FIRST	2	SB	7.765	0.813	-5.7	0.05	7.0	1.0000			-
DP/S7-10.3.0	FIRST	EQ	SB	8.243	1.333	-2.4	0.12	13.6	0.9610			-
DP/S7-10.4.0	FIRST	1	SB	7.483	0.406	-3.5	0.05	7.0	1.0000			-
DP/S7-10.4.0	FIRST	2	SB	7.774	0.816	-6.1	0.05	7.0	1.0000			-
DP/S7-10.4.0	FIRST	EQ	SB	8.267	1.341	-2.8	0.12	13.1	0.9515			-
DP/S7-10.5.0	FIRST	1	SB	7.483	0.407	-3.5	0.05	7.0	1.0000			-
DP/S7-10.5.0	FIRST	2	SB	7.774	0.818	-6.2	0.05	7.0	1.0000			-
DP/S7-10.5.0	FIRST	EQ	SB	8.269	1.344	-2.8	0.12	13.1	0.9506			-
DP/S7-10.6.0	FIRST	1	SB	7.491	0.400	-3.4	0.05	7.0	1.0000			-
DP/S7-10.6.0	FIRST	2	SB	7.789	0.817	-6.0	0.05	7.0	1.0000			-
DP/S7-10.6.0	FIRST	EQ	SB	8.289	1.351	-2.8	0.12	13.1	0.9503			-
DP/S7-10.7.0	FIRST	1	SB	7.497	0.412	-3.3	0.05	7.0	1.0000			-
DP/S7-10.7.0	FIRST	2	SB	7.801	0.834	-5.9	0.05	7.0	1.0000			-
DP/S7-10.7.0	FIRST	EQ	SB	8.305	1.372	-2.7	0.12	13.0	0.9500			-
DP/S8-11.1.0	FIRST	1	SB	7.442	0.313	-10.0	0.05	7.0	1.0000			-
DP/S8-11.1.0	FIRST	2	SB	7.850	0.639	-12.1	0.05	4.7	0.9050			-
DP/S8-11.1.0	FIRST	EQ	SB	8.844	1.028	-2.3	0.05	7.0	1.0000			-
DP/S8-11.1.0	CROSS	1	PS	8.878	1.016	0.0	0.05	7.0	1.0000			370
DP/S8-11.1.0	CROSS	2	PS	8.878	1.016	0.0	0.05	7.0	1.0000			370
DP/S8-11.1.0	CROSS	EQ	PS	8.878	1.016	0.0	0.12	13.4	0.9565			370
DP/S8-11.2.0	FIRST	1	SB	7.420	0.274	-11.3	0.05	7.0	1.0000			-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DP/S8-11.2.0	FIRST	2	SB	7.814	0.632	-14.1	0.05	2.5	0.7758		-
DP/S8-11.2.0	FIRST	EQ	SB	8.868	1.063	-6.9	0.05	6.9	0.9969		-
DP/S8-11.2.0	CROSS	1	SB	8.940	1.041	-4.7	0.05	7.0	1.0000		398
DP/S8-11.2.0	CROSS	2	SB	8.940	1.041	-4.7	0.05	7.0	1.0000		398
DP/S8-11.2.0	CROSS	EQ	SB	8.940	1.041	-4.7	0.12	9.0	0.8669		398
DP/S8-11.3.0	FIRST	1	SB	7.420	0.274	-11.3	0.05	7.0	1.0000		-
DP/S8-11.3.0	FIRST	2	SB	7.821	0.635	-14.0	0.05	2.6	0.7796		-
DP/S8-11.3.0	FIRST	EQ	SB	8.886	1.080	-6.9	0.05	6.8	0.9943		-
DP/S8-11.3.0	CROSS	1	SB	8.958	1.058	-4.7	0.05	7.0	1.0000		397
DP/S8-11.3.0	CROSS	2	SB	8.958	1.058	-4.7	0.05	7.0	1.0000		397
DP/S8-11.3.0	CROSS	EQ	SB	8.958	1.058	-4.7	0.12	9.0	0.8652		397
DP/S9-12.1.0	FIRST	1	SB	7.429	0.011	-11.7	0.05	6.7	0.9884		-
DP/S9-12.1.0	FIRST	2	SB	7.915	0.049	-13.5	0.05	2.7	0.7899		-
DP/S9-12.1.0	FIRST	EQ	SB	9.187	-0.082	-3.1	0.05	7.0	1.0000		-
DP/S9-12.1.0	CROSS	1	SB	9.231	-0.099	-0.0	0.05	7.0	1.0000		363
DP/S9-12.1.0	CROSS	2	SB	9.231	-0.099	-0.0	0.05	7.0	1.0000		363
DP/S9-12.1.0	CROSS	EQ	SB	9.231	-0.099	-0.0	0.12	12.8	0.9458		363
DP/S4-8.1.0	FIRST	1	SB	7.443	0.712	-0.1	0.05	7.0	1.0000		-
DP/S4-8.1.0	FIRST	2	SB	7.688	1.555	-1.8	0.05	7.0	1.0000		-
DP/S4-8.1.0	FIRST	EQ	SB	7.999	2.506	-1.2	0.12	10.7	0.9043		-
DP/S5-9.1.0	FIRST	1	PS	7.499	0.733	0.0	0.05	7.0	1.0000		-
DP/S5-9.1.0	FIRST	2	PS	7.820	1.482	2.1	0.05	7.0	1.0000		-
DP/S5-9.1.0	FIRST	EQ	SB	8.255	2.393	-0.0	0.12	13.7	0.9628		-
DP/S5-9.2.0	FIRST	1	SB	7.499	0.743	-1.4	0.05	7.0	1.0000		-
DP/S5-9.2.0	FIRST	2	SB	7.817	1.501	-3.2	0.05	7.0	1.0000		-
DP/S5-9.2.0	FIRST	EQ	SB	8.268	2.424	-0.5	0.12	13.2	0.9534		-
DP/S5-9.3.0	FIRST	1	SB	7.500	0.745	-1.4	0.05	7.0	1.0000		-
DP/S5-9.3.0	FIRST	2	SB	7.824	1.515	-3.2	0.05	7.0	1.0000		-
DP/S5-9.3.0	FIRST	EQ	SB	8.296	2.488	-0.5	0.12	13.0	0.9503		-
DP/S5-9.4.0	FIRST	1	SB	7.501	0.747	-1.6	0.05	7.0	1.0000		-
DP/S5-9.4.0	FIRST	2	SB	7.825	1.519	-3.3	0.05	7.0	1.0000		-
DP/S5-9.4.0	FIRST	EQ	SB	8.300	2.496	-0.6	0.12	13.0	0.9486		-
DP/S5-9.5.0	FIRST	1	SB	7.504	0.761	-1.5	0.05	7.0	1.0000		-
DP/S5-9.5.0	FIRST	2	SB	7.832	1.541	-3.2	0.05	7.0	1.0000		-
DP/S5-9.5.0	FIRST	EQ	SB	8.311	2.527	-0.5	0.12	12.9	0.9473		-
DP/S5-9.6.0	FIRST	1	SB	7.509	0.763	-1.5	0.05	7.0	1.0000		-
DP/S5-9.6.0	FIRST	2	SB	7.842	1.552	-3.2	0.05	7.0	1.0000		-
DP/S5-9.6.0	FIRST	EQ	SB	8.327	2.551	-0.5	0.12	12.8	0.9459		-
DP/S6-10.1.0	FIRST	1	PS	7.494	0.536	0.7	0.05	7.0	1.0000		-
DP/S6-10.1.0	FIRST	2	PS	7.812	0.962	2.8	0.05	7.0	1.0000		-
DP/S6-10.1.0	FIRST	EQ	PS	8.251	1.470	0.0	0.12	15.4	0.9902		-
DP/S7-11.1.0	FIRST	1	SB	7.442	0.313	-10.0	0.05	7.0	1.0000		-
DP/S7-11.1.0	FIRST	2	SB	7.850	0.639	-12.1	0.05	4.7	0.9050		-
DP/S7-11.1.0	FIRST	EQ	SB	8.844	1.028	-2.3	0.05	7.0	1.0000		-
DP/S7-11.1.0	CROSS	1	PS	8.878	1.016	0.0	0.05	7.0	1.0000		370
DP/S7-11.1.0	CROSS	2	PS	8.878	1.016	0.0	0.05	7.0	1.0000		370
DP/S7-11.1.0	CROSS	EQ	PS	8.878	1.016	0.0	0.12	13.4	0.9565		370
DP/S7-11.2.0	FIRST	1	SB	7.420	0.274	-11.3	0.05	7.0	1.0000		-
DP/S7-11.2.0	FIRST	2	SB	7.814	0.632	-14.1	0.05	2.5	0.7758		-
DP/S7-11.2.0	FIRST	EQ	SB	8.868	1.063	-6.9	0.05	6.9	0.9969		-
DP/S7-11.2.0	CROSS	1	SB	8.940	1.041	-4.7	0.05	7.0	1.0000		398
DP/S7-11.2.0	CROSS	2	SB	8.940	1.041	-4.7	0.05	7.0	1.0000		398
DP/S7-11.2.0	CROSS	EQ	SB	8.940	1.041	-4.7	0.12	9.0	0.8669		398
DP/S7-11.3.0	FIRST	1	SB	7.420	0.274	-11.3	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DP/S7-11.3.0	FIRST	2	SB	7.821	0.635	-14.0	0.05	2.6	0.7796		-
DP/S7-11.3.0	FIRST	EQ	SB	8.886	1.080	-6.9	0.05	6.8	0.9943		-
DP/S7-11.3.0	CROSS	1	SB	8.958	1.058	-4.7	0.05	7.0	1.0000		397
DP/S7-11.3.0	CROSS	2	SB	8.958	1.058	-4.7	0.05	7.0	1.0000		397
DP/S7-11.3.0	CROSS	EQ	SB	8.958	1.058	-4.7	0.12	9.0	0.8652		397
DP/S5-10.1.0	FIRST	1	PS	7.575	0.781	2.9	0.05	7.0	1.0000		-
DP/S5-10.1.0	FIRST	2	PS	7.915	1.588	8.2	0.05	7.0	1.0000		-
DP/S5-10.1.0	FIRST	EQ	SB	8.691	2.643	-0.1	0.12	11.8	0.9277		-
DP/S5-10.2.0	FIRST	1	SB	7.521	0.763	-6.9	0.05	7.0	1.0000		-
DP/S5-10.2.0	FIRST	2	SB	7.885	1.608	-10.3	0.05	4.9	0.9165		-
DP/S5-10.2.0	FIRST	EQ	SB	8.745	2.704	-3.0	0.12	8.5	0.8526		-
DP/S6-11.1.0	FIRST	1	SB	7.480	0.458	-9.4	0.05	7.0	1.0000		-
DP/S6-11.1.0	FIRST	2	SB	7.897	0.804	-12.0	0.05	4.7	0.9050		-
DP/S6-11.1.0	FIRST	EQ	SB	8.920	1.196	-2.0	0.05	7.0	1.0000		-
DP/S6-11.1.0	CROSS	1	SB	8.952	1.184	-0.0	0.05	7.0	1.0000		368
DP/S6-11.1.0	CROSS	2	SB	8.952	1.184	-0.0	0.05	7.0	1.0000		368
DP/S6-11.1.0	CROSS	EQ	SB	8.952	1.184	-0.0	0.12	13.8	0.9642		368

12.2.3 Light Service Draught DL

RESULTS

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FACSOL	CROSSTM s
DL/P1.1.0-1	FIRST	1	PS	6.890	0.122	0.0	0.05	7.0	1.0000	-
DL/P1.1.0-1	FIRST	2	PS	6.890	0.124	0.0	0.05	7.0	1.0000	-
DL/P1.1.0-1	FIRST	EQ	PS	6.891	0.127	0.0	0.12	16.0	1.0000	-
DL/P1.2.0-1	FIRST	1	PS	6.890	0.122	0.0	0.05	7.0	1.0000	-
DL/P1.2.0-1	FIRST	2	PS	6.890	0.124	0.0	0.05	7.0	1.0000	-
DL/P1.2.0-1	FIRST	EQ	PS	6.891	0.127	0.0	0.12	16.0	1.0000	-
DL/P2.1.0-1	FIRST	1	PS	6.906	0.272	0.0	0.05	7.0	1.0000	-
DL/P2.1.0-1	FIRST	2	PS	6.925	0.447	0.0	0.05	7.0	1.0000	-
DL/P2.1.0-1	FIRST	EQ	PS	6.950	0.688	0.0	0.05	7.0	1.0000	-
DL/P2.1.0-1	INT2	1	PS	6.950	0.688	0.0	0.05	7.0	1.0000	-
DL/P2.1.0-1	INT2	2	PS	6.950	0.688	0.0	0.05	7.0	1.0000	-
DL/P2.1.0-1	INT2	EQ	PS	6.950	0.688	0.0	0.12	16.0	1.0000	-
DL/P3.1.0-1	FIRST	1	PS	6.922	0.354	0.6	0.05	7.0	1.0000	-
DL/P3.1.0-1	FIRST	2	PS	6.955	0.613	1.5	0.05	7.0	1.0000	-
DL/P3.1.0-1	FIRST	EQ	PS	6.994	0.951	2.4	0.05	7.0	1.0000	-
DL/P3.1.0-1	INT1	1	PS	6.994	0.951	2.4	0.05	7.0	1.0000	-
DL/P3.1.0-1	INT1	2	PS	6.994	0.951	2.4	0.05	7.0	1.0000	-
DL/P3.1.0-1	INT1	EQ	PS	6.994	0.951	2.4	0.05	7.0	1.0000	-
DL/P3.1.0-1	INT2	1	PS	6.994	0.951	2.4	0.05	7.0	1.0000	-
DL/P3.1.0-1	INT2	2	PS	6.994	0.951	2.4	0.05	7.0	1.0000	-
DL/P3.1.0-1	INT2	EQ	PS	6.994	0.951	2.4	0.12	16.0	1.0000	-
DL/P3.2.0	FIRST	1	PS	6.927	0.391	0.6	0.05	7.0	1.0000	-
DL/P3.2.0	FIRST	2	PS	6.965	0.689	1.5	0.05	7.0	1.0000	-
DL/P3.2.0	FIRST	EQ	PS	7.011	1.071	2.4	0.05	7.0	1.0000	-
DL/P3.2.0	INT1	1	PS	7.011	1.071	2.4	0.05	7.0	1.0000	-
DL/P3.2.0	INT1	2	PS	7.011	1.071	2.4	0.05	7.0	1.0000	-
DL/P3.2.0	INT1	EQ	PS	7.011	1.071	2.4	0.05	7.0	1.0000	-
DL/P3.2.0	INT2	1	PS	7.011	1.071	2.4	0.05	7.0	1.0000	-
DL/P3.2.0	INT2	2	PS	7.011	1.071	2.4	0.05	7.0	1.0000	-
DL/P3.2.0	INT2	EQ	PS	7.011	1.071	2.4	0.12	16.0	1.0000	-
DL/P3.3.0	FIRST	1	PS	6.942	0.502	0.9	0.05	7.0	1.0000	-
DL/P3.3.0	FIRST	2	PS	6.993	0.919	2.0	0.05	7.0	1.0000	-
DL/P3.3.0	FIRST	EQ	PS	7.055	1.433	3.1	0.05	7.0	1.0000	-
DL/P3.3.0	INT1	1	PS	7.055	1.433	3.1	0.05	7.0	1.0000	-
DL/P3.3.0	INT1	2	PS	7.055	1.433	3.1	0.05	7.0	1.0000	-
DL/P3.3.0	INT1	EQ	PS	7.055	1.433	3.1	0.05	7.0	1.0000	-
DL/P3.3.0	INT2	1	PS	7.055	1.433	3.1	0.05	7.0	1.0000	-
DL/P3.3.0	INT2	2	PS	7.055	1.433	3.1	0.05	7.0	1.0000	-
DL/P3.3.0	INT2	EQ	PS	7.055	1.433	3.1	0.12	15.4	0.9898	-
DL/P4.1.0	FIRST	1	PS	6.936	0.361	0.0	0.05	7.0	1.0000	-
DL/P4.1.0	FIRST	2	PS	6.984	0.605	0.0	0.05	7.0	1.0000	-
DL/P4.1.0	FIRST	EQ	PS	7.032	0.853	0.2	0.12	16.0	1.0000	-
DL/P4.2.0	FIRST	1	PS	6.958	0.480	0.6	0.05	7.0	1.0000	-
DL/P4.2.0	FIRST	2	PS	7.025	0.845	1.5	0.05	7.0	1.0000	-
DL/P4.2.0	FIRST	EQ	PS	7.101	1.247	2.0	0.12	16.0	1.0000	-
DL/P4.3.0	FIRST	1	PS	6.960	0.492	0.7	0.05	7.0	1.0000	-
DL/P4.3.0	FIRST	2	PS	7.030	0.872	1.6	0.05	7.0	1.0000	-
DL/P4.3.0	FIRST	EQ	PS	7.111	1.303	2.2	0.12	16.0	1.0000	-
DL/P4.4.0	FIRST	1	PS	6.964	0.510	0.6	0.05	7.0	1.0000	-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DL/P4.4.0	FIRST	2	PS	7.037	0.910	1.6	0.05	7.0	1.0000		-
DL/P4.4.0	FIRST	EQ	PS	7.123	1.359	2.2	0.12	16.0	1.0000		-
DL/P5.1.0-1	FIRST	1	PS	6.981	0.458	0.0	0.05	7.0	1.0000		-
DL/P5.1.0-1	FIRST	2	PS	7.078	0.805	0.0	0.05	7.0	1.0000		-
DL/P5.1.0-1	FIRST	EQ	PS	7.186	1.181	0.0	0.12	16.0	1.0000		-
DL/P5.2.0	FIRST	1	PS	7.003	0.529	0.2	0.05	7.0	1.0000		-
DL/P5.2.0	FIRST	2	PS	7.121	0.951	0.3	0.05	7.0	1.0000		-
DL/P5.2.0	FIRST	EQ	PS	7.254	1.402	0.2	0.12	16.0	1.0000		-
DL/P5.3.0	FIRST	1	PS	7.003	0.529	0.2	0.05	7.0	1.0000		-
DL/P5.3.0	FIRST	2	PS	7.122	0.954	0.3	0.05	7.0	1.0000		-
DL/P5.3.0	FIRST	EQ	PS	7.258	1.419	0.2	0.12	16.0	1.0000		-
DL/P5.4.0	FIRST	1	PS	7.004	0.531	0.2	0.05	7.0	1.0000		-
DL/P5.4.0	FIRST	2	PS	7.123	0.957	0.3	0.05	7.0	1.0000		-
DL/P5.4.0	FIRST	EQ	PS	7.260	1.425	0.2	0.12	16.0	1.0000		-
DL/P5.5.0	FIRST	1	PS	7.006	0.540	0.2	0.05	7.0	1.0000		-
DL/P5.5.0	FIRST	2	PS	7.128	0.974	0.3	0.05	7.0	1.0000		-
DL/P5.5.0	FIRST	EQ	PS	7.268	1.451	0.2	0.12	16.0	1.0000		-
DL/P6.1.0-1	FIRST	1	PS	6.937	0.248	0.0	0.05	7.0	1.0000		-
DL/P6.1.0-1	FIRST	2	PS	6.985	0.377	0.0	0.05	7.0	1.0000		-
DL/P6.1.0-1	FIRST	EQ	PS	7.036	0.510	0.0	0.12	16.0	1.0000		-
DL/P6.2.0	FIRST	1	PS	7.048	0.658	0.3	0.05	7.0	1.0000		-
DL/P6.2.0	FIRST	2	PS	7.217	1.196	0.5	0.05	7.0	1.0000		-
DL/P6.2.0	FIRST	EQ	PS	7.418	1.782	0.2	0.12	16.0	1.0000		-
DL/P6.3.0	FIRST	1	PS	7.048	0.658	0.3	0.05	7.0	1.0000		-
DL/P6.3.0	FIRST	2	PS	7.217	1.196	0.5	0.05	7.0	1.0000		-
DL/P6.3.0	FIRST	EQ	PS	7.418	1.782	0.2	0.12	16.0	1.0000		-
DL/P6.4.0	FIRST	1	PS	7.048	0.660	0.3	0.05	7.0	1.0000		-
DL/P6.4.0	FIRST	2	PS	7.218	1.199	0.6	0.05	7.0	1.0000		-
DL/P6.4.0	FIRST	EQ	PS	7.419	1.787	0.2	0.12	16.0	1.0000		-
DL/P6.5.0	FIRST	1	PS	7.050	0.665	0.3	0.05	7.0	1.0000		-
DL/P6.5.0	FIRST	2	PS	7.222	1.210	0.6	0.05	7.0	1.0000		-
DL/P6.5.0	FIRST	EQ	PS	7.425	1.803	0.2	0.12	16.0	1.0000		-
DL/P7.1.0-1	FIRST	1	PS	6.937	0.248	0.0	0.05	7.0	1.0000		-
DL/P7.1.0-1	FIRST	2	PS	6.985	0.377	0.0	0.05	7.0	1.0000		-
DL/P7.1.0-1	FIRST	EQ	PS	7.036	0.510	0.0	0.12	16.0	1.0000		-
DL/P7.2.0-1	FIRST	1	PS	6.937	0.248	0.0	0.05	7.0	1.0000		-
DL/P7.2.0-1	FIRST	2	PS	6.985	0.377	0.0	0.05	7.0	1.0000		-
DL/P7.2.0-1	FIRST	EQ	PS	7.041	0.519	0.0	0.12	16.0	1.0000		-
DL/P7.3.0-1	FIRST	1	PS	6.937	0.248	0.0	0.05	7.0	1.0000		-
DL/P7.3.0-1	FIRST	2	PS	6.985	0.377	0.0	0.05	7.0	1.0000		-
DL/P7.3.0-1	FIRST	EQ	PS	7.041	0.519	0.0	0.12	16.0	1.0000		-
DL/P7.4.0-1	FIRST	1	PS	6.937	0.248	0.0	0.05	7.0	1.0000		-
DL/P7.4.0-1	FIRST	2	PS	6.985	0.377	0.0	0.05	7.0	1.0000		-
DL/P7.4.0-1	FIRST	EQ	PS	7.041	0.519	0.0	0.12	16.0	1.0000		-
DL/P7.5.0-1	FIRST	1	PS	6.937	0.248	0.0	0.05	7.0	1.0000		-
DL/P7.5.0-1	FIRST	2	PS	6.985	0.377	0.0	0.05	7.0	1.0000		-
DL/P7.5.0-1	FIRST	EQ	PS	7.041	0.519	0.0	0.12	16.0	1.0000		-
DL/P8.1.0-1	FIRST	1	PS	6.937	0.248	0.0	0.05	7.0	1.0000		-
DL/P8.1.0-1	FIRST	2	PS	6.985	0.377	0.0	0.05	7.0	1.0000		-
DL/P8.1.0-1	FIRST	EQ	PS	7.036	0.510	0.0	0.12	16.0	1.0000		-
DL/P8.2.0	FIRST	1	PS	7.073	0.480	0.3	0.05	7.0	1.0000		-
DL/P8.2.0	FIRST	2	PS	7.267	0.850	0.5	0.05	7.0	1.0000		-
DL/P8.2.0	FIRST	EQ	PS	7.493	1.254	0.2	0.12	16.0	1.0000		-
DL/P8.3.0	FIRST	1	PS	7.073	0.480	0.3	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DL/P8.3.0	FIRST	2	PS	7.267	0.850	0.5	0.05	7.0	1.0000		-
DL/P8.3.0	FIRST	EQ	PS	7.493	1.254	0.2	0.12	16.0	1.0000		-
DL/P8.4.0	FIRST	1	PS	7.074	0.481	0.4	0.05	7.0	1.0000		-
DL/P8.4.0	FIRST	2	PS	7.268	0.852	0.5	0.05	7.0	1.0000		-
DL/P8.4.0	FIRST	EQ	PS	7.494	1.257	0.3	0.12	16.0	1.0000		-
DL/P8.5.0	FIRST	1	PS	7.074	0.481	0.4	0.05	7.0	1.0000		-
DL/P8.5.0	FIRST	2	PS	7.268	0.852	0.5	0.05	7.0	1.0000		-
DL/P8.5.0	FIRST	EQ	PS	7.494	1.257	0.3	0.12	16.0	1.0000		-
DL/P8.6.0	FIRST	1	PS	7.078	0.488	0.4	0.05	7.0	1.0000		-
DL/P8.6.0	FIRST	2	PS	7.278	0.867	0.5	0.05	7.0	1.0000		-
DL/P8.6.0	FIRST	EQ	PS	7.509	1.280	0.3	0.12	16.0	1.0000		-
DL/P9.1.0-1	FIRST	1	PS	6.994	0.306	0.0	0.05	7.0	1.0000		-
DL/P9.1.0-1	FIRST	2	PS	7.103	0.492	0.0	0.05	7.0	1.0000		-
DL/P9.1.0-1	FIRST	EQ	PS	7.224	0.692	0.0	0.12	16.0	1.0000		-
DL/P9.2.0	FIRST	1	PS	7.026	0.375	0.2	0.05	7.0	1.0000		-
DL/P9.2.0	FIRST	2	PS	7.168	0.615	0.3	0.05	7.0	1.0000		-
DL/P9.2.0	FIRST	EQ	PS	7.326	0.868	0.2	0.12	16.0	1.0000		-
DL/P9.3.0	FIRST	1	PS	7.026	0.375	0.2	0.05	7.0	1.0000		-
DL/P9.3.0	FIRST	2	PS	7.169	0.616	0.3	0.05	7.0	1.0000		-
DL/P9.3.0	FIRST	EQ	PS	7.329	0.872	0.2	0.12	16.0	1.0000		-
DL/P9.4.0	FIRST	1	PS	7.026	0.376	0.3	0.05	7.0	1.0000		-
DL/P9.4.0	FIRST	2	PS	7.170	0.618	0.3	0.05	7.0	1.0000		-
DL/P9.4.0	FIRST	EQ	PS	7.330	0.875	0.2	0.12	16.0	1.0000		-
DL/P9.5.0	FIRST	1	PS	7.026	0.376	0.3	0.05	7.0	1.0000		-
DL/P9.5.0	FIRST	2	PS	7.170	0.618	0.3	0.05	7.0	1.0000		-
DL/P9.5.0	FIRST	EQ	PS	7.330	0.875	0.2	0.12	16.0	1.0000		-
DL/P9.6.0	FIRST	1	PS	7.030	0.384	0.3	0.05	7.0	1.0000		-
DL/P9.6.0	FIRST	2	PS	7.178	0.632	0.3	0.05	7.0	1.0000		-
DL/P9.6.0	FIRST	EQ	PS	7.344	0.896	0.2	0.12	16.0	1.0000		-
DL/P10.1.0-1	FIRST	1	PS	6.963	0.173	0.0	0.05	7.0	1.0000		-
DL/P10.1.0-1	FIRST	2	PS	7.039	0.225	0.0	0.05	7.0	1.0000		-
DL/P10.1.0-1	FIRST	EQ	PS	7.123	0.281	0.0	0.12	16.0	1.0000		-
DL/P10.2.0	FIRST	1	PS	6.994	0.190	0.8	0.05	7.0	1.0000		-
DL/P10.2.0	FIRST	2	PS	7.100	0.258	1.3	0.05	7.0	1.0000		-
DL/P10.2.0	FIRST	EQ	PS	7.220	0.331	1.7	0.12	16.0	1.0000		-
DL/P10.3.0	FIRST	1	PS	7.002	0.194	0.9	0.05	7.0	1.0000		-
DL/P10.3.0	FIRST	2	PS	7.116	0.264	1.5	0.05	7.0	1.0000		-
DL/P10.3.0	FIRST	EQ	PS	7.244	0.339	2.1	0.12	16.0	1.0000		-
DL/P10.4.0	FIRST	1	PS	7.008	0.195	0.8	0.05	7.0	1.0000		-
DL/P10.4.0	FIRST	2	PS	7.128	0.269	1.5	0.05	7.0	1.0000		-
DL/P10.4.0	FIRST	EQ	PS	7.262	0.346	2.0	0.12	16.0	1.0000		-
DL/P11.1.0-1	FIRST	1	PS	7.031	0.050	0.0	0.05	7.0	1.0000		-
DL/P11.1.0-1	FIRST	2	PS	7.177	-0.020	0.0	0.05	7.0	1.0000		-
DL/P11.1.0-1	FIRST	EQ	PS	7.348	-0.106	0.0	0.12	16.0	1.0000		-
DL/P11.2.0	FIRST	1	PS	7.037	0.038	2.4	0.05	7.0	1.0000		-
DL/P11.2.0	FIRST	2	PS	7.204	-0.040	2.3	0.05	7.0	1.0000		-
DL/P11.2.0	FIRST	EQ	PS	7.397	-0.135	2.0	0.05	7.0	1.0000		-
DL/P11.2.0	CROSS	1	PS	7.425	-0.141	0.9	0.05	7.0	1.0000		415
DL/P11.2.0	CROSS	2	PS	7.425	-0.141	0.9	0.05	7.0	1.0000		415
DL/P11.2.0	CROSS	EQ	PS	7.425	-0.141	0.9	0.12	16.0	1.0000		415
DL/P11.3.0	FIRST	1	PS	7.046	0.033	2.3	0.05	7.0	1.0000		-
DL/P11.3.0	FIRST	2	PS	7.220	-0.050	2.3	0.05	7.0	1.0000		-
DL/P11.3.0	FIRST	EQ	PS	7.424	-0.149	2.0	0.05	7.0	1.0000		-
DL/P11.3.0	CROSS	1	PS	7.452	-0.155	0.8	0.05	7.0	1.0000		414

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FACSOL	CROSSTM s
DL/P11.3.0	CROSS	2	PS	7.452	-0.155	0.8	0.05	7.0	1.0000	414
DL/P11.3.0	CROSS	EQ	PS	7.452	-0.155	0.8	0.12	16.0	1.0000	414
DL/P12.1.0-1	FIRST	1	PS	6.979	-0.030	0.0	0.05	7.0	1.0000	-
DL/P12.1.0-1	FIRST	2	PS	7.070	-0.178	0.0	0.05	7.0	1.0000	-
DL/P12.1.0-1	FIRST	EQ	PS	7.180	-0.358	0.0	0.12	16.0	1.0000	-
DL/P12.2.0	FIRST	1	PS	7.031	-0.119	1.6	0.05	7.0	1.0000	-
DL/P12.2.0	FIRST	2	PS	7.169	-0.362	3.0	0.05	7.0	1.0000	-
DL/P12.2.0	FIRST	EQ	PS	7.338	-0.651	3.9	0.12	15.4	0.9912	-
DL/P12.3.0	FIRST	1	PS	7.039	-0.129	1.4	0.05	7.0	1.0000	-
DL/P12.3.0	FIRST	2	PS	7.186	-0.384	2.9	0.05	7.0	1.0000	-
DL/P12.3.0	FIRST	EQ	PS	7.365	-0.687	3.8	0.12	15.4	0.9908	-
DL/P13.1.0-1	FIRST	1	PS	6.898	0.098	0.4	0.05	7.0	1.0000	-
DL/P13.1.0-1	FIRST	2	PS	6.906	0.076	0.8	0.05	7.0	1.0000	-
DL/P13.1.0-1	FIRST	EQ	PS	6.919	0.035	1.6	0.12	16.0	1.0000	-
DL/P13.2.0-1	FIRST	1	PS	6.955	-0.052	0.5	0.05	7.0	1.0000	-
DL/P13.2.0-1	FIRST	2	PS	7.022	-0.229	0.9	0.05	7.0	1.0000	-
DL/P13.2.0-1	FIRST	EQ	PS	7.101	-0.442	1.8	0.12	16.0	1.0000	-
DL/P13.3.0	FIRST	1	PS	7.008	-0.180	0.7	0.05	7.0	1.0000	-
DL/P13.3.0	FIRST	2	PS	7.125	-0.490	2.0	0.05	7.0	1.0000	-
DL/P13.3.0	FIRST	EQ	PS	7.262	-0.885	3.7	0.12	15.7	0.9957	-
DL/P14.1.0	FIRST	1	PS	6.986	-0.196	0.6	0.05	7.0	1.0000	-
DL/P14.1.0	FIRST	2	PS	7.085	-0.529	1.4	0.05	7.0	1.0000	-
DL/P14.1.0	FIRST	EQ	PS	7.209	-0.957	2.3	0.05	7.0	1.0000	-
DL/P14.1.0	CROSS	1	PS	7.250	-1.067	1.4	0.05	7.0	1.0000	1395
DL/P14.1.0	CROSS	2	PS	7.299	-1.208	0.0	0.05	7.0	1.0000	1395
DL/P14.1.0	CROSS	EQ	PS	7.299	-1.208	0.0	0.12	16.0	1.0000	1395
DL/P14.2.0	FIRST	1	PS	7.007	-0.265	0.4	0.05	7.0	1.0000	-
DL/P14.2.0	FIRST	2	PS	7.131	-0.678	1.3	0.05	7.0	1.0000	-
DL/P14.2.0	FIRST	EQ	PS	7.285	-1.199	2.2	0.05	7.0	1.0000	-
DL/P14.2.0	CROSS	1	PS	7.326	-1.311	1.3	0.05	7.0	1.0000	1378
DL/P14.2.0	CROSS	2	PS	7.373	-1.448	0.0	0.05	7.0	1.0000	1378
DL/P14.2.0	CROSS	EQ	PS	7.373	-1.448	0.0	0.12	16.0	1.0000	1378
DL/P15.1.0	FIRST	1	PS	7.008	-0.357	0.0	0.05	7.0	1.0000	-
DL/P15.1.0	FIRST	2	PS	7.137	-0.881	0.0	0.05	7.0	1.0000	-
DL/P15.1.0	FIRST	EQ	PS	7.320	-1.626	0.0	0.12	16.0	1.0000	-
DL/P15.2.0	FIRST	1	PS	7.031	-0.451	0.0	0.05	7.0	1.0000	-
DL/P15.2.0	FIRST	2	PS	7.186	-1.078	0.0	0.05	7.0	1.0000	-
DL/P15.2.0	FIRST	EQ	PS	7.404	-1.965	0.0	0.12	16.0	1.0000	-
DL/P16.1.0-1	FIRST	1	PS	6.971	-0.267	0.0	0.05	7.0	1.0000	-
DL/P16.1.0-1	FIRST	2	PS	7.058	-0.687	0.0	0.05	7.0	1.0000	-
DL/P16.1.0-1	FIRST	EQ	PS	7.179	-1.276	0.0	0.12	16.0	1.0000	-
DL/P16.2.0-1	FIRST	1	PS	6.971	-0.267	0.0	0.05	7.0	1.0000	-
DL/P16.2.0-1	FIRST	2	PS	7.058	-0.687	0.0	0.05	7.0	1.0000	-
DL/P16.2.0-1	FIRST	EQ	PS	7.179	-1.276	0.0	0.12	16.0	1.0000	-
DL/P17.1.0-1	FIRST	1	PS	6.922	-0.050	0.0	0.05	7.0	1.0000	-
DL/P17.1.0-1	FIRST	2	PS	6.955	-0.233	0.0	0.05	7.0	1.0000	-
DL/P17.1.0-1	FIRST	EQ	PS	6.996	-0.453	0.0	0.12	16.0	1.0000	-
DL/P18.1.0-1	FIRST	1	PS	6.912	-0.013	0.0	0.05	7.0	1.0000	-
DL/P18.1.0-1	FIRST	2	PS	6.934	-0.149	0.0	0.05	7.0	1.0000	-
DL/P18.1.0-1	FIRST	EQ	PS	6.958	-0.290	0.0	0.12	16.0	1.0000	-
DL/P1-2.1.0-1	FIRST	1	PS	6.912	0.322	0.0	0.05	7.0	1.0000	-
DL/P1-2.1.0-1	FIRST	2	PS	6.936	0.557	0.0	0.05	7.0	1.0000	-
DL/P1-2.1.0-1	FIRST	EQ	PS	6.971	0.908	0.0	0.05	7.0	1.0000	-
DL/P1-2.1.0-1	INT2	1	PS	6.971	0.908	0.0	0.05	7.0	1.0000	-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FACSOL	CROSSTM s
DL/P1-2.1.0-1	INT2	2	PS	6.971	0.908	0.0	0.05	7.0	1.0000	-
DL/P1-2.1.0-1	INT2	EQ	PS	6.971	0.908	0.0	0.12	16.0	1.0000	-
DL/P1-2.2.0-1	FIRST	1	PS	6.912	0.322	0.0	0.05	7.0	1.0000	-
DL/P1-2.2.0-1	FIRST	2	PS	6.936	0.557	0.0	0.05	7.0	1.0000	-
DL/P1-2.2.0-1	FIRST	EQ	PS	6.971	0.908	0.0	0.05	7.0	1.0000	-
DL/P1-2.2.0-1	INT2	1	PS	6.971	0.908	0.0	0.05	7.0	1.0000	-
DL/P1-2.2.0-1	INT2	2	PS	6.971	0.908	0.0	0.05	7.0	1.0000	-
DL/P1-2.2.0-1	INT2	EQ	PS	6.971	0.908	0.0	0.12	16.0	1.0000	-
DL/P2-3.1.0-1	FIRST	1	PS	6.943	0.560	0.7	0.05	7.0	1.0000	-
DL/P2-3.1.0-1	FIRST	2	PS	7.003	1.094	1.6	0.05	7.0	1.0000	-
DL/P2-3.1.0-1	FIRST	EQ	PS	7.097	2.007	3.6	0.05	7.0	1.0000	-
DL/P2-3.1.0-1	INT1	1	PS	7.097	2.007	3.6	0.05	7.0	1.0000	-
DL/P2-3.1.0-1	INT1	2	PS	7.097	2.007	3.6	0.05	7.0	1.0000	-
DL/P2-3.1.0-1	INT1	EQ	PS	7.097	2.007	3.6	0.05	7.0	1.0000	-
DL/P2-3.1.0-1	INT2	1	PS	7.097	2.007	3.6	0.05	7.0	1.0000	-
DL/P2-3.1.0-1	INT2	2	PS	7.097	2.007	3.6	0.05	7.0	1.0000	-
DL/P2-3.1.0-1	INT2	EQ	PS	7.097	2.007	3.6	0.12	14.1	0.9686	-
DL/P2-3.2.0	FIRST	1	PS	6.948	0.594	0.7	0.05	7.0	1.0000	-
DL/P2-3.2.0	FIRST	2	PS	7.014	1.171	1.6	0.05	7.0	1.0000	-
DL/P2-3.2.0	FIRST	EQ	PS	7.118	2.150	3.5	0.05	7.0	1.0000	-
DL/P2-3.2.0	INT1	1	PS	7.118	2.150	3.5	0.05	7.0	1.0000	-
DL/P2-3.2.0	INT1	2	PS	7.118	2.150	3.5	0.05	7.0	1.0000	-
DL/P2-3.2.0	INT1	EQ	PS	7.118	2.150	3.5	0.05	7.0	1.0000	-
DL/P2-3.2.0	INT2	1	PS	7.118	2.150	3.5	0.05	7.0	1.0000	-
DL/P2-3.2.0	INT2	2	PS	7.118	2.150	3.5	0.05	7.0	1.0000	-
DL/P2-3.2.0	INT2	EQ	PS	7.118	2.150	3.5	0.12	13.9	0.9659	-
DL/P2-3.3.0	FIRST	1	PS	6.962	0.703	0.9	0.05	7.0	1.0000	-
DL/P2-3.3.0	FIRST	2	PS	7.042	1.407	2.2	0.05	7.0	1.0000	-
DL/P2-3.3.0	FIRST	EQ	PS	7.163	2.582	4.4	0.05	7.0	1.0000	-
DL/P2-3.3.0	INT1	1	PS	7.163	2.583	4.4	0.05	7.0	1.0000	-
DL/P2-3.3.0	INT1	2	PS	7.163	2.583	4.4	0.05	7.0	1.0000	-
DL/P2-3.3.0	INT1	EQ	PS	7.163	2.582	4.4	0.05	7.0	1.0000	-
DL/P2-3.3.0	INT2	1	PS	7.163	2.582	4.4	0.05	7.0	1.0000	-
DL/P2-3.3.0	INT2	2	PS	7.163	2.582	4.4	0.05	7.0	1.0000	-
DL/P2-3.3.0	INT2	EQ	PS	7.163	2.582	4.4	0.12	12.2	0.9348	-
DL/P3-4.1.0	FIRST	1	PS	6.968	0.574	0.8	0.05	7.0	1.0000	-
DL/P3-4.1.0	FIRST	2	PS	7.045	1.098	2.3	0.05	7.0	1.0000	-
DL/P3-4.1.0	FIRST	EQ	PS	7.151	1.786	3.1	0.05	7.0	1.0000	-
DL/P3-4.1.0	INT1	1	PS	7.151	1.786	3.1	0.05	7.0	1.0000	-
DL/P3-4.1.0	INT1	2	PS	7.151	1.786	3.1	0.05	7.0	1.0000	-
DL/P3-4.1.0	INT1	EQ	PS	7.151	1.786	3.1	0.05	7.0	1.0000	-
DL/P3-4.1.0	INT2	1	PS	7.151	1.786	3.1	0.05	7.0	1.0000	-
DL/P3-4.1.0	INT2	2	PS	7.151	1.786	3.1	0.05	7.0	1.0000	-
DL/P3-4.1.0	INT2	EQ	PS	7.151	1.786	3.1	0.12	14.6	0.9778	-
DL/P3-4.2.0	FIRST	1	PS	6.973	0.621	0.8	0.05	7.0	1.0000	-
DL/P3-4.2.0	FIRST	2	PS	7.055	1.177	2.3	0.05	7.0	1.0000	-
DL/P3-4.2.0	FIRST	EQ	PS	7.168	1.901	3.0	0.05	7.0	1.0000	-
DL/P3-4.2.0	INT1	1	PS	7.168	1.901	3.0	0.05	7.0	1.0000	-
DL/P3-4.2.0	INT1	2	PS	7.168	1.901	3.0	0.05	7.0	1.0000	-
DL/P3-4.2.0	INT1	EQ	PS	7.168	1.901	3.0	0.05	7.0	1.0000	-
DL/P3-4.2.0	INT2	1	PS	7.168	1.901	3.0	0.05	7.0	1.0000	-
DL/P3-4.2.0	INT2	2	PS	7.168	1.901	3.0	0.05	7.0	1.0000	-
DL/P3-4.2.0	INT2	EQ	PS	7.168	1.901	3.0	0.12	14.4	0.9743	-
DL/P3-4.3.0	FIRST	1	PS	6.992	0.737	1.5	0.05	7.0	1.0000	-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DL/P3-4.3.0	FIRST	2	PS	7.083	1.413	4.0	0.05	7.0	1.0000		-
DL/P3-4.3.0	FIRST	EQ	PS	7.220	2.354	5.4	0.05	7.0	1.0000		-
DL/P3-4.3.0	INT1	1	PS	7.221	2.354	5.4	0.05	7.0	1.0000		-
DL/P3-4.3.0	INT1	2	PS	7.221	2.354	5.4	0.05	7.0	1.0000		-
DL/P3-4.3.0	INT1	EQ	PS	7.220	2.354	5.4	0.05	7.0	1.0000		-
DL/P3-4.3.0	INT2	1	PS	7.220	2.353	5.4	0.05	7.0	1.0000		-
DL/P3-4.3.0	INT2	2	PS	7.220	2.353	5.4	0.05	7.0	1.0000		-
DL/P3-4.3.0	INT2	EQ	PS	7.220	2.354	5.4	0.12	10.8	0.9059		-
DL/P3-4.4.0	FIRST	1	PS	7.005	0.843	1.8	0.05	7.0	1.0000		-
DL/P3-4.4.0	FIRST	2	PS	7.105	1.630	4.6	0.05	7.0	1.0000		-
DL/P3-4.4.0	FIRST	EQ	PS	7.260	2.707	6.1	0.05	7.0	1.0000		-
DL/P3-4.4.0	INT1	1	PS	7.259	2.703	6.1	0.05	7.0	1.0000		-
DL/P3-4.4.0	INT1	2	PS	7.259	2.703	6.1	0.05	7.0	1.0000		-
DL/P3-4.4.0	INT1	EQ	PS	7.260	2.707	6.1	0.05	7.0	1.0000		-
DL/P3-4.4.0	INT2	1	PS	7.259	2.705	6.1	0.05	7.0	1.0000		-
DL/P3-4.4.0	INT2	2	PS	7.259	2.705	6.1	0.05	7.0	1.0000		-
DL/P3-4.4.0	INT2	EQ	PS	7.260	2.707	6.1	0.12	9.3	0.8727		-
DL/P3-4.5.0	FIRST	1	PS	7.007	0.852	1.8	0.05	7.0	1.0000		-
DL/P3-4.5.0	FIRST	2	PS	7.109	1.660	4.7	0.05	7.0	1.0000		-
DL/P3-4.5.0	FIRST	EQ	PS	7.274	2.792	6.3	0.05	7.0	1.0000		-
DL/P3-4.5.0	INT1	1	PS	7.274	2.786	6.2	0.05	7.0	1.0000		-
DL/P3-4.5.0	INT1	2	PS	7.274	2.786	6.2	0.05	7.0	1.0000		-
DL/P3-4.5.0	INT1	EQ	PS	7.274	2.792	6.3	0.05	7.0	1.0000		-
DL/P3-4.5.0	INT2	1	PS	7.274	2.789	6.3	0.05	7.0	1.0000		-
DL/P3-4.5.0	INT2	2	PS	7.274	2.789	6.3	0.05	7.0	1.0000		-
DL/P3-4.5.0	INT2	EQ	PS	7.274	2.792	6.3	0.12	8.9	0.8640		-
DL/P3-4.6.0	FIRST	1	PS	7.012	0.866	1.7	0.05	7.0	1.0000		-
DL/P3-4.6.0	FIRST	2	PS	7.118	1.694	4.6	0.05	7.0	1.0000		-
DL/P3-4.6.0	FIRST	EQ	PS	7.288	2.852	6.2	0.05	7.0	1.0000		-
DL/P3-4.6.0	INT1	1	PS	7.288	2.846	6.2	0.05	7.0	1.0000		-
DL/P3-4.6.0	INT1	2	PS	7.288	2.846	6.2	0.05	7.0	1.0000		-
DL/P3-4.6.0	INT1	EQ	PS	7.288	2.852	6.2	0.05	7.0	1.0000		-
DL/P3-4.6.0	INT2	1	PS	7.288	2.849	6.2	0.05	7.0	1.0000		-
DL/P3-4.6.0	INT2	2	PS	7.288	2.849	6.2	0.05	7.0	1.0000		-
DL/P3-4.6.0	INT2	EQ	PS	7.288	2.852	6.2	0.12	8.8	0.8621		-
DL/P4-5.1.0	FIRST	1	PS	7.047	0.742	0.0	0.05	7.0	1.0000		-
DL/P4-5.1.0	FIRST	2	PS	7.212	1.390	0.0	0.05	7.0	1.0000		-
DL/P4-5.1.0	FIRST	EQ	PS	7.401	2.086	0.6	0.12	16.0	1.0000		-
DL/P4-5.2.0	FIRST	1	PS	7.070	0.854	0.8	0.05	7.0	1.0000		-
DL/P4-5.2.0	FIRST	2	PS	7.252	1.631	2.5	0.05	7.0	1.0000		-
DL/P4-5.2.0	FIRST	EQ	PS	7.483	2.518	2.8	0.12	13.0	0.9495		-
DL/P4-5.3.0	FIRST	1	PS	7.070	0.854	0.8	0.05	7.0	1.0000		-
DL/P4-5.3.0	FIRST	2	PS	7.253	1.637	2.5	0.05	7.0	1.0000		-
DL/P4-5.3.0	FIRST	EQ	PS	7.491	2.549	2.9	0.12	12.9	0.9477		-
DL/P4-5.4.0	FIRST	1	PS	7.072	0.869	1.0	0.05	7.0	1.0000		-
DL/P4-5.4.0	FIRST	2	PS	7.258	1.668	2.7	0.05	7.0	1.0000		-
DL/P4-5.4.0	FIRST	EQ	PS	7.509	2.631	3.0	0.12	12.6	0.9413		-
DL/P4-5.5.0	FIRST	1	PS	7.073	0.870	1.0	0.05	7.0	1.0000		-
DL/P4-5.5.0	FIRST	2	PS	7.259	1.671	2.8	0.05	7.0	1.0000		-
DL/P4-5.5.0	FIRST	EQ	PS	7.511	2.637	3.0	0.12	12.5	0.9405		-
DL/P4-5.6.0	FIRST	1	PS	7.075	0.876	1.0	0.05	7.0	1.0000		-
DL/P4-5.6.0	FIRST	2	PS	7.265	1.686	2.7	0.05	7.0	1.0000		-
DL/P4-5.6.0	FIRST	EQ	PS	7.519	2.662	3.0	0.12	12.5	0.9393		-
DL/P4-5.7.0	FIRST	1	PS	7.079	0.899	0.9	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DL/P4-5.7.0	FIRST	2	PS	7.273	1.723	2.7	0.05	7.0	1.0000		-
DL/P4-5.7.0	FIRST	EQ	PS	7.532	2.715	3.0	0.12	12.3	0.9371		-
DL/P5-6.1.0	FIRST	1	PS	7.047	0.653	0.0	0.05	7.0	1.0000		-
DL/P5-6.1.0	FIRST	2	PS	7.215	1.187	0.0	0.05	7.0	1.0000		-
DL/P5-6.1.0	FIRST	EQ	PS	7.413	1.769	0.0	0.12	16.0	1.0000		-
DL/P5-6.2.0	FIRST	1	PS	7.049	0.662	0.3	0.05	7.0	1.0000		-
DL/P5-6.2.0	FIRST	2	PS	7.219	1.203	0.5	0.05	7.0	1.0000		-
DL/P5-6.2.0	FIRST	EQ	PS	7.420	1.792	0.2	0.12	16.0	1.0000		-
DL/P5-6.3.0	FIRST	1	PS	7.049	0.662	0.3	0.05	7.0	1.0000		-
DL/P5-6.3.0	FIRST	2	PS	7.220	1.206	0.5	0.05	7.0	1.0000		-
DL/P5-6.3.0	FIRST	EQ	PS	7.427	1.816	0.2	0.12	16.0	1.0000		-
DL/P5-6.4.0	FIRST	1	PS	7.049	0.664	0.3	0.05	7.0	1.0000		-
DL/P5-6.4.0	FIRST	2	PS	7.221	1.210	0.6	0.05	7.0	1.0000		-
DL/P5-6.4.0	FIRST	EQ	PS	7.429	1.821	0.2	0.12	16.0	1.0000		-
DL/P5-6.5.0	FIRST	1	PS	7.052	0.676	0.3	0.05	7.0	1.0000		-
DL/P5-6.5.0	FIRST	2	PS	7.228	1.231	0.6	0.05	7.0	1.0000		-
DL/P5-6.5.0	FIRST	EQ	PS	7.439	1.852	0.2	0.12	16.0	1.0000		-
DL/P6-7.1.0-1	FIRST	1	PS	6.937	0.248	0.0	0.05	7.0	1.0000		-
DL/P6-7.1.0-1	FIRST	2	PS	6.985	0.377	0.0	0.05	7.0	1.0000		-
DL/P6-7.1.0-1	FIRST	EQ	PS	7.036	0.510	0.0	0.12	16.0	1.0000		-
DL/P6-7.2.0	FIRST	1	PS	7.083	0.640	0.2	0.05	7.0	1.0000		-
DL/P6-7.2.0	FIRST	2	PS	7.285	1.272	0.9	0.05	7.0	1.0000		-
DL/P6-7.2.0	FIRST	EQ	PS	7.549	1.986	0.3	0.12	16.0	1.0000		-
DL/P6-7.3.0	FIRST	1	PS	7.083	0.640	0.2	0.05	7.0	1.0000		-
DL/P6-7.3.0	FIRST	2	PS	7.285	1.272	0.9	0.05	7.0	1.0000		-
DL/P6-7.3.0	FIRST	EQ	PS	7.549	1.986	0.3	0.12	16.0	1.0000		-
DL/P6-7.4.0	FIRST	1	PS	7.083	0.642	0.3	0.05	7.0	1.0000		-
DL/P6-7.4.0	FIRST	2	PS	7.286	1.275	0.9	0.05	7.0	1.0000		-
DL/P6-7.4.0	FIRST	EQ	PS	7.551	1.991	0.3	0.12	16.0	1.0000		-
DL/P6-7.5.0	FIRST	1	PS	7.085	0.647	0.3	0.05	7.0	1.0000		-
DL/P6-7.5.0	FIRST	2	PS	7.290	1.286	0.9	0.05	7.0	1.0000		-
DL/P6-7.5.0	FIRST	EQ	PS	7.557	2.007	0.3	0.12	16.0	1.0000		-
DL/P7-8.1.0-1	FIRST	1	PS	6.937	0.248	0.0	0.05	7.0	1.0000		-
DL/P7-8.1.0-1	FIRST	2	PS	6.985	0.377	0.0	0.05	7.0	1.0000		-
DL/P7-8.1.0-1	FIRST	EQ	PS	7.036	0.510	0.0	0.12	16.0	1.0000		-
DL/P7-8.2.0	FIRST	1	PS	7.073	0.480	0.3	0.05	7.0	1.0000		-
DL/P7-8.2.0	FIRST	2	PS	7.267	0.850	0.5	0.05	7.0	1.0000		-
DL/P7-8.2.0	FIRST	EQ	PS	7.493	1.254	0.2	0.12	16.0	1.0000		-
DL/P7-8.3.0	FIRST	1	PS	7.073	0.480	0.3	0.05	7.0	1.0000		-
DL/P7-8.3.0	FIRST	2	PS	7.267	0.850	0.5	0.05	7.0	1.0000		-
DL/P7-8.3.0	FIRST	EQ	PS	7.493	1.254	0.2	0.12	16.0	1.0000		-
DL/P7-8.4.0	FIRST	1	PS	7.074	0.481	0.4	0.05	7.0	1.0000		-
DL/P7-8.4.0	FIRST	2	PS	7.268	0.852	0.5	0.05	7.0	1.0000		-
DL/P7-8.4.0	FIRST	EQ	PS	7.494	1.257	0.3	0.12	16.0	1.0000		-
DL/P7-8.5.0	FIRST	1	PS	7.074	0.481	0.4	0.05	7.0	1.0000		-
DL/P7-8.5.0	FIRST	2	PS	7.268	0.852	0.5	0.05	7.0	1.0000		-
DL/P7-8.5.0	FIRST	EQ	PS	7.494	1.257	0.3	0.12	16.0	1.0000		-
DL/P7-8.6.0	FIRST	1	PS	7.078	0.488	0.4	0.05	7.0	1.0000		-
DL/P7-8.6.0	FIRST	2	PS	7.278	0.867	0.5	0.05	7.0	1.0000		-
DL/P7-8.6.0	FIRST	EQ	PS	7.509	1.280	0.3	0.12	16.0	1.0000		-
DL/P8-9.1.0-1	FIRST	1	PS	7.041	0.428	0.0	0.05	7.0	1.0000		-
DL/P8-9.1.0-1	FIRST	2	PS	7.202	0.740	0.0	0.05	7.0	1.0000		-
DL/P8-9.1.0-1	FIRST	EQ	PS	7.389	1.085	0.0	0.12	16.0	1.0000		-
DL/P8-9.2.0	FIRST	1	PS	7.073	0.480	0.3	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FACSOL	CROSSTM s
DL/P8-9.2.0	FIRST	2	PS	7.267	0.850	0.5	0.05	7.0	1.0000	-
DL/P8-9.2.0	FIRST	EQ	PS	7.493	1.254	0.2	0.12	16.0	1.0000	-
DL/P8-9.3.0	FIRST	1	PS	7.073	0.480	0.3	0.05	7.0	1.0000	-
DL/P8-9.3.0	FIRST	2	PS	7.268	0.852	0.5	0.05	7.0	1.0000	-
DL/P8-9.3.0	FIRST	EQ	PS	7.498	1.260	0.2	0.12	16.0	1.0000	-
DL/P8-9.4.0	FIRST	1	PS	7.074	0.481	0.4	0.05	7.0	1.0000	-
DL/P8-9.4.0	FIRST	2	PS	7.269	0.854	0.5	0.05	7.0	1.0000	-
DL/P8-9.4.0	FIRST	EQ	PS	7.499	1.263	0.3	0.12	16.0	1.0000	-
DL/P8-9.5.0	FIRST	1	PS	7.074	0.481	0.4	0.05	7.0	1.0000	-
DL/P8-9.5.0	FIRST	2	PS	7.269	0.854	0.5	0.05	7.0	1.0000	-
DL/P8-9.5.0	FIRST	EQ	PS	7.499	1.263	0.3	0.12	16.0	1.0000	-
DL/P8-9.6.0	FIRST	1	PS	7.078	0.488	0.4	0.05	7.0	1.0000	-
DL/P8-9.6.0	FIRST	2	PS	7.278	0.869	0.5	0.05	7.0	1.0000	-
DL/P8-9.6.0	FIRST	EQ	PS	7.514	1.286	0.3	0.12	16.0	1.0000	-
DL/P9-10.1.0	FIRST	1	PS	7.112	0.437	0.0	0.05	7.0	1.0000	-
DL/P9-10.1.0	FIRST	2	PS	7.353	0.725	0.5	0.05	7.0	1.0000	-
DL/P9-10.1.0	FIRST	EQ	PS	7.652	1.039	0.0	0.12	16.0	1.0000	-
DL/P9-10.2.0	FIRST	1	PS	7.126	0.442	1.4	0.05	7.0	1.0000	-
DL/P9-10.2.0	FIRST	2	PS	7.377	0.733	2.6	0.05	7.0	1.0000	-
DL/P9-10.2.0	FIRST	EQ	PS	7.702	1.060	1.9	0.12	15.7	0.9948	-
DL/P9-10.3.0	FIRST	1	PS	7.126	0.442	1.4	0.05	7.0	1.0000	-
DL/P9-10.3.0	FIRST	2	PS	7.378	0.734	2.6	0.05	7.0	1.0000	-
DL/P9-10.3.0	FIRST	EQ	PS	7.708	1.070	2.0	0.12	15.6	0.9942	-
DL/P9-10.4.0	FIRST	1	PS	7.134	0.447	1.5	0.05	7.0	1.0000	-
DL/P9-10.4.0	FIRST	2	PS	7.392	0.739	2.9	0.05	7.0	1.0000	-
DL/P9-10.4.0	FIRST	EQ	PS	7.733	1.076	2.3	0.12	15.2	0.9866	-
DL/P9-10.5.0	FIRST	1	PS	7.134	0.449	1.5	0.05	7.0	1.0000	-
DL/P9-10.5.0	FIRST	2	PS	7.393	0.741	2.9	0.05	7.0	1.0000	-
DL/P9-10.5.0	FIRST	EQ	PS	7.734	1.079	2.3	0.12	15.1	0.9860	-
DL/P9-10.6.0	FIRST	1	PS	7.140	0.443	1.5	0.05	7.0	1.0000	-
DL/P9-10.6.0	FIRST	2	PS	7.405	0.741	2.9	0.05	7.0	1.0000	-
DL/P9-10.6.0	FIRST	EQ	PS	7.754	1.085	2.3	0.12	15.1	0.9854	-
DL/P9-10.7.0	FIRST	1	PS	7.145	0.456	1.4	0.05	7.0	1.0000	-
DL/P9-10.7.0	FIRST	2	PS	7.414	0.757	2.9	0.05	7.0	1.0000	-
DL/P9-10.7.0	FIRST	EQ	PS	7.768	1.104	2.3	0.12	15.0	0.9848	-
DL/P10-11.1..	FIRST	1	PS	7.104	0.102	0.0	0.05	7.0	1.0000	-
DL/P10-11.1..	FIRST	2	PS	7.332	0.080	1.0	0.05	7.0	1.0000	-
DL/P10-11.1..	FIRST	EQ	PS	7.634	0.048	0.0	0.12	16.0	1.0000	-
DL/P10-11.2.0	FIRST	1	PS	7.102	0.109	5.2	0.05	7.0	1.0000	-
DL/P10-11.2.0	FIRST	2	PS	7.361	0.079	6.4	0.05	7.0	1.0000	-
DL/P10-11.2.0	FIRST	EQ	PS	7.756	0.051	4.9	0.05	7.0	1.0000	-
DL/P10-11.2.0	CROSS	1	PS	7.803	0.049	3.4	0.05	7.0	1.0000	423
DL/P10-11.2.0	CROSS	2	PS	7.803	0.049	3.4	0.05	7.0	1.0000	423
DL/P10-11.2.0	CROSS	EQ	PS	7.803	0.049	3.4	0.12	14.6	0.9772	423
DL/P10-11.3.0	FIRST	1	PS	7.108	0.110	5.3	0.05	7.0	1.0000	-
DL/P10-11.3.0	FIRST	2	PS	7.370	0.082	6.7	0.05	7.0	1.0000	-
DL/P10-11.3.0	FIRST	EQ	PS	7.777	0.056	5.3	0.05	7.0	1.0000	-
DL/P10-11.3.0	CROSS	1	PS	7.826	0.054	3.8	0.05	7.0	1.0000	426
DL/P10-11.3.0	CROSS	2	PS	7.826	0.054	3.8	0.05	7.0	1.0000	426
DL/P10-11.3.0	CROSS	EQ	PS	7.826	0.054	3.8	0.12	14.1	0.9683	426
DL/P10-11.4.0	FIRST	1	PS	7.131	0.109	4.8	0.05	7.0	1.0000	-
DL/P10-11.4.0	FIRST	2	PS	7.404	0.079	6.4	0.05	7.0	1.0000	-
DL/P10-11.4.0	FIRST	EQ	PS	7.829	0.050	5.0	0.05	7.0	1.0000	-
DL/P10-11.4.0	CROSS	1	PS	7.875	0.047	3.6	0.05	7.0	1.0000	422

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DL/P10-11.4.0	CROSS	2	PS	7.875	0.047	3.6	0.05	7.0	1.0000		422
DL/P10-11.4.0	CROSS	EQ	PS	7.875	0.047	3.6	0.12	14.1	0.9687		422
DL/P11-12.1.0	FIRST	1	PS	7.123	-0.130	2.7	0.05	7.0	1.0000		-
DL/P11-12.1.0	FIRST	2	PS	7.372	-0.388	4.2	0.05	7.0	1.0000		-
DL/P11-12.1.0	FIRST	EQ	PS	7.765	-0.729	2.3	0.05	7.0	1.0000		-
DL/P11-12.1.0	CROSS	1	PS	7.799	-0.737	0.0	0.05	7.0	1.0000		400
DL/P11-12.1.0	CROSS	2	PS	7.799	-0.737	0.0	0.05	7.0	1.0000		400
DL/P11-12.1.0	CROSS	EQ	PS	7.799	-0.737	0.0	0.12	16.0	1.0000		400
DL/P11-12.2.0	FIRST	1	PS	7.119	-0.223	6.3	0.05	7.0	1.0000		-
DL/P11-12.2.0	FIRST	2	PS	7.359	-0.579	9.3	0.05	7.0	1.0000		-
DL/P11-12.2.0	FIRST	EQ	PS	7.841	-0.985	8.2	0.05	7.0	1.0000		-
DL/P11-12.2.0	CROSS	1	PS	7.914	-0.985	6.4	0.05	7.0	1.0000		449
DL/P11-12.2.0	CROSS	2	PS	7.914	-0.985	6.4	0.05	7.0	1.0000		449
DL/P11-12.2.0	CROSS	EQ	PS	7.914	-0.985	6.4	0.12	10.5	0.9006		449
DL/P11-12.3.0	FIRST	1	PS	7.151	-0.232	5.5	0.05	7.0	1.0000		-
DL/P11-12.3.0	FIRST	2	PS	7.400	-0.608	9.1	0.05	7.0	1.0000		-
DL/P11-12.3.0	FIRST	EQ	PS	7.912	-1.032	7.7	0.05	7.0	1.0000		-
DL/P11-12.3.0	CROSS	1	PS	7.979	-1.033	6.0	0.05	7.0	1.0000		442
DL/P11-12.3.0	CROSS	2	PS	7.979	-1.033	6.0	0.05	7.0	1.0000		442
DL/P11-12.3.0	CROSS	EQ	PS	7.979	-1.033	6.0	0.12	10.7	0.9048		442
DL/P12-13.1..	FIRST	1	PS	6.987	-0.051	0.6	0.05	7.0	1.0000		-
DL/P12-13.1..	FIRST	2	PS	7.085	-0.224	1.3	0.05	7.0	1.0000		-
DL/P12-13.1..	FIRST	EQ	PS	7.224	-0.542	3.9	0.12	15.7	0.9953		-
DL/P12-13.2..	FIRST	1	PS	7.043	-0.198	0.7	0.05	7.0	1.0000		-
DL/P12-13.2..	FIRST	2	PS	7.202	-0.537	2.0	0.05	7.0	1.0000		-
DL/P12-13.2..	FIRST	EQ	PS	7.425	-1.035	4.0	0.12	15.0	0.9843		-
DL/P12-13.3..	FIRST	1	PS	7.090	-0.325	3.1	0.05	7.0	1.0000		-
DL/P12-13.3..	FIRST	2	PS	7.262	-0.816	6.7	0.05	7.0	1.0000		-
DL/P12-13.3..	FIRST	EQ	PS	7.516	-1.536	10.1	0.12	8.1	0.6622		-
DL/P12-13.4..	FIRST	1	PS	7.090	-0.325	3.1	0.05	7.0	1.0000		-
DL/P12-13.4..	FIRST	2	PS	7.262	-0.816	6.7	0.05	7.0	1.0000		-
DL/P12-13.4..	FIRST	EQ	PS	7.516	-1.536	10.1	0.12	8.1	0.6622		-
DL/P13-14.1..	FIRST	1	PS	6.992	-0.218	1.1	0.05	7.0	1.0000		-
DL/P13-14.1..	FIRST	2	PS	7.095	-0.579	2.6	0.05	7.0	1.0000		-
DL/P13-14.1..	FIRST	EQ	PS	7.236	-1.226	6.5	0.05	7.0	1.0000		-
DL/P13-14.1..	CROSS	1	PS	7.293	-1.321	5.4	0.05	7.0	1.0000		1484
DL/P13-14.1..	CROSS	2	PS	7.361	-1.432	3.5	0.05	7.0	1.0000		1484
DL/P13-14.1..	CROSS	EQ	PS	7.361	-1.432	3.5	0.12	14.2	0.9714		1484
DL/P13-14.2.0	FIRST	1	PS	7.072	-0.414	1.2	0.05	7.0	1.0000		-
DL/P13-14.2.0	FIRST	2	PS	7.257	-1.044	3.7	0.05	7.0	1.0000		-
DL/P13-14.2.0	FIRST	EQ	PS	7.536	-1.956	6.0	0.05	7.0	1.0000		-
DL/P13-14.2.0	CROSS	1	PS	7.600	-2.070	4.8	0.05	7.0	1.0000		1396
DL/P13-14.2.0	CROSS	2	PS	7.669	-2.193	2.9	0.05	7.0	1.0000		1396
DL/P13-14.2.0	CROSS	EQ	PS	7.669	-2.193	2.9	0.12	13.5	0.9580		1396
DL/P13-14.3..	FIRST	1	PS	7.064	-0.453	2.9	0.05	7.0	1.0000		-
DL/P13-14.3..	FIRST	2	PS	7.233	-1.074	5.6	0.05	7.0	1.0000		-
DL/P13-14.3..	FIRST	EQ	PS	7.483	-2.024	8.7	0.05	7.0	1.0000		-
DL/P13-14.3..	CROSS	1	PS	7.558	-2.133	7.5	0.05	7.0	1.0000		1486
DL/P13-14.3..	CROSS	2	PS	7.637	-2.244	5.9	0.05	7.0	1.0000		1486
DL/P13-14.3..	CROSS	EQ	PS	7.637	-2.244	5.9	0.12	10.4	0.8975		1486
DL/P13-14.4..	FIRST	1	PS	7.091	-0.534	2.5	0.05	7.0	1.0000		-
DL/P13-14.4..	FIRST	2	PS	7.289	-1.239	5.1	0.05	7.0	1.0000		-
DL/P13-14.4..	FIRST	EQ	PS	7.574	-2.261	8.3	0.05	7.0	1.0000		-
DL/P13-14.4..	CROSS	1	PS	7.647	-2.375	7.2	0.05	7.0	1.0000		1454

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DL/P13-14.4..	CROSS	2	PS	7.722	-2.484	5.6	0.05	7.0	1.0000	1454	
DL/P13-14.4..	CROSS	EQ	PS	7.722	-2.484	5.6	0.12	10.2	0.8932	1454	
DL/P14-15.1.0	FIRST	1	PS	7.101	-0.666	0.9	0.05	7.0	1.0000	-	
DL/P14-15.1.0	FIRST	2	PS	7.338	-1.580	2.5	0.05	7.0	1.0000	-	
DL/P14-15.1.0	FIRST	EQ	PS	7.771	-3.233	3.6	0.05	7.0	1.0000	-	
DL/P14-15.1.0	CROSS	1	PS	7.836	-3.385	1.9	0.05	7.0	1.0000	1277	
DL/P14-15.1.0	CROSS	2	PS	7.887	-3.524	0.0	0.05	7.0	1.0000	1277	
DL/P14-15.1.0	CROSS	EQ	PS	7.887	-3.524	0.0	0.12	16.0	1.0000	1277	
DL/P14-15.2.0	FIRST	1	PS	7.125	-0.763	0.7	0.05	7.0	1.0000	-	
DL/P14-15.2.0	FIRST	2	PS	7.390	-1.781	2.2	0.05	7.0	1.0000	-	
DL/P14-15.2.0	FIRST	EQ	PS	7.869	-3.597	3.4	0.05	7.0	1.0000	-	
DL/P14-15.2.0	CROSS	1	PS	7.932	-3.752	1.7	0.05	7.0	1.0000	1259	
DL/P14-15.2.0	CROSS	2	PS	7.979	-3.886	0.0	0.05	7.0	1.0000	1259	
DL/P14-15.2.0	CROSS	EQ	PS	7.979	-3.886	0.0	0.12	16.0	1.0000	1259	
DL/P15-16.1.0	FIRST	1	PS	7.094	-0.758	0.0	0.05	7.0	1.0000	-	
DL/P15-16.1.0	FIRST	2	PS	7.336	-1.811	0.0	0.05	7.0	1.0000	-	
DL/P15-16.1.0	FIRST	EQ	PS	7.827	-4.062	0.0	0.12	14.1	0.9696	-	
DL/P15-16.2.0	FIRST	1	PS	7.094	-0.758	0.0	0.05	7.0	1.0000	-	
DL/P15-16.2.0	FIRST	2	PS	7.336	-1.811	0.0	0.05	7.0	1.0000	-	
DL/P15-16.2.0	FIRST	EQ	PS	7.827	-4.062	0.0	0.12	14.1	0.9696	-	
DL/P16-17.1..	FIRST	1	PS	7.012	-0.494	0.0	0.05	7.0	1.0000	-	
DL/P16-17.1..	FIRST	2	PS	7.152	-1.207	0.0	0.05	7.0	1.0000	-	
DL/P16-17.1..	FIRST	EQ	PS	7.398	-2.489	0.0	0.12	16.0	1.0000	-	
DL/P16-17.2..	FIRST	1	PS	7.012	-0.494	0.0	0.05	7.0	1.0000	-	
DL/P16-17.2..	FIRST	2	PS	7.152	-1.207	0.0	0.05	7.0	1.0000	-	
DL/P16-17.2..	FIRST	EQ	PS	7.398	-2.489	0.0	0.12	16.0	1.0000	-	
DL/P17-18.1..	FIRST	1	PS	6.944	-0.197	0.0	0.05	7.0	1.0000	-	
DL/P17-18.1..	FIRST	2	PS	7.001	-0.519	0.0	0.05	7.0	1.0000	-	
DL/P17-18.1..	FIRST	EQ	PS	7.073	-0.929	0.0	0.12	16.0	1.0000	-	
DL/P1-3.1.0-1	FIRST	1	PS	6.943	0.561	0.7	0.05	7.0	1.0000	-	
DL/P1-3.1.0-1	FIRST	2	PS	7.004	1.105	1.6	0.05	7.0	1.0000	-	
DL/P1-3.1.0-1	FIRST	EQ	PS	7.113	2.265	4.2	0.05	7.0	1.0000	-	
DL/P1-3.1.0-1	INT1	1	PS	7.113	2.265	4.2	0.05	7.0	1.0000	-	
DL/P1-3.1.0-1	INT1	2	PS	7.113	2.265	4.2	0.05	7.0	1.0000	-	
DL/P1-3.1.0-1	INT1	EQ	PS	7.113	2.265	4.2	0.05	7.0	1.0000	-	
DL/P1-3.1.0-1	INT2	1	PS	7.113	2.265	4.2	0.05	7.0	1.0000	-	
DL/P1-3.1.0-1	INT2	2	PS	7.113	2.265	4.2	0.05	7.0	1.0000	-	
DL/P1-3.1.0-1	INT2	EQ	PS	7.113	2.265	4.2	0.12	12.6	0.9415	-	
DL/P1-3.2.0-1	FIRST	1	PS	6.943	0.561	0.7	0.05	7.0	1.0000	-	
DL/P1-3.2.0-1	FIRST	2	PS	7.004	1.105	1.6	0.05	7.0	1.0000	-	
DL/P1-3.2.0-1	FIRST	EQ	PS	7.113	2.265	4.2	0.05	7.0	1.0000	-	
DL/P1-3.2.0-1	INT1	1	PS	7.113	2.265	4.2	0.05	7.0	1.0000	-	
DL/P1-3.2.0-1	INT1	2	PS	7.113	2.265	4.2	0.05	7.0	1.0000	-	
DL/P1-3.2.0-1	INT1	EQ	PS	7.113	2.265	4.2	0.05	7.0	1.0000	-	
DL/P1-3.2.0-1	INT2	1	PS	7.113	2.265	4.2	0.05	7.0	1.0000	-	
DL/P1-3.2.0-1	INT2	2	PS	7.113	2.265	4.2	0.05	7.0	1.0000	-	
DL/P1-3.2.0-1	INT2	EQ	PS	7.113	2.265	4.2	0.12	12.6	0.9415	-	
DL/P1-3.3.0	FIRST	1	PS	6.948	0.595	0.7	0.05	7.0	1.0000	-	
DL/P1-3.3.0	FIRST	2	PS	7.015	1.182	1.6	0.05	7.0	1.0000	-	
DL/P1-3.3.0	FIRST	EQ	PS	7.136	2.438	4.2	0.05	7.0	1.0000	-	
DL/P1-3.3.0	INT1	1	PS	7.136	2.440	4.2	0.05	7.0	1.0000	-	
DL/P1-3.3.0	INT1	2	PS	7.136	2.440	4.2	0.05	7.0	1.0000	-	
DL/P1-3.3.0	INT1	EQ	PS	7.136	2.438	4.2	0.05	7.0	1.0000	-	
DL/P1-3.3.0	INT2	1	PS	7.136	2.440	4.2	0.05	7.0	1.0000	-	

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DL/P1-3.3.0	INT2	2	PS	7.136	2.440	4.2	0.05	7.0	1.0000		-
DL/P1-3.3.0	INT2	EQ	PS	7.136	2.438	4.2	0.12	12.3	0.9368		-
DL/P1-3.4.0	FIRST	1	PS	6.963	0.704	0.9	0.05	7.0	1.0000		-
DL/P1-3.4.0	FIRST	2	PS	7.044	1.420	2.3	0.05	7.0	1.0000		-
DL/P1-3.4.0	FIRST	EQ	PS	7.184	2.996	5.5	0.05	7.0	1.0000		-
DL/P1-3.4.0	INT1	1	PS	7.185	2.988	5.4	0.05	7.0	1.0000		-
DL/P1-3.4.0	INT1	2	PS	7.185	2.988	5.4	0.05	7.0	1.0000		-
DL/P1-3.4.0	INT1	EQ	PS	7.184	2.996	5.5	0.05	7.0	1.0000		-
DL/P1-3.4.0	INT2	1	PS	7.185	2.989	5.4	0.05	7.0	1.0000		-
DL/P1-3.4.0	INT2	2	PS	7.185	2.989	5.4	0.05	7.0	1.0000		-
DL/P1-3.4.0	INT2	EQ	PS	7.184	2.996	5.5	0.12	10.2	0.8935		-
DL/P2-4.1.0	FIRST	1	PS	6.988	0.779	0.9	0.05	7.0	1.0000		-
DL/P2-4.1.0	FIRST	2	PS	7.091	1.597	2.8	0.05	7.0	1.0000		-
DL/P2-4.1.0	FIRST	EQ	PS	7.269	3.075	5.0	0.05	7.0	1.0000		-
DL/P2-4.1.0	INT1	1	PS	7.270	3.068	4.9	0.05	7.0	1.0000		-
DL/P2-4.1.0	INT1	2	PS	7.270	3.068	4.9	0.05	7.0	1.0000		-
DL/P2-4.1.0	INT1	EQ	PS	7.269	3.075	5.0	0.05	7.0	1.0000		-
DL/P2-4.1.0	INT2	1	PS	7.270	3.069	4.9	0.05	7.0	1.0000		-
DL/P2-4.1.0	INT2	2	PS	7.270	3.069	4.9	0.05	7.0	1.0000		-
DL/P2-4.1.0	INT2	EQ	PS	7.269	3.075	5.0	0.12	11.4	0.9187		-
DL/P2-4.2.0	FIRST	1	PS	6.993	0.824	0.8	0.05	7.0	1.0000		-
DL/P2-4.2.0	FIRST	2	PS	7.102	1.678	2.8	0.05	7.0	1.0000		-
DL/P2-4.2.0	FIRST	EQ	PS	7.290	3.213	4.9	0.05	7.0	1.0000		-
DL/P2-4.2.0	INT1	1	PS	7.291	3.203	4.8	0.05	7.0	1.0000		-
DL/P2-4.2.0	INT1	2	PS	7.291	3.203	4.8	0.05	7.0	1.0000		-
DL/P2-4.2.0	INT1	EQ	PS	7.290	3.213	4.9	0.05	7.0	1.0000		-
DL/P2-4.2.0	INT2	1	PS	7.291	3.204	4.8	0.05	7.0	1.0000		-
DL/P2-4.2.0	INT2	2	PS	7.291	3.204	4.8	0.05	7.0	1.0000		-
DL/P2-4.2.0	INT2	EQ	PS	7.290	3.213	4.9	0.12	11.3	0.9162		-
DL/P3-5.1.0	FIRST	1	PS	7.079	0.923	1.0	0.05	7.0	1.0000		-
DL/P3-5.1.0	FIRST	2	PS	7.258	1.878	4.2	0.05	7.0	1.0000		-
DL/P3-5.1.0	FIRST	EQ	PS	7.559	3.238	3.9	0.05	7.0	1.0000		-
DL/P3-5.1.0	INT1	1	PS	7.560	3.236	3.9	0.05	7.0	1.0000		-
DL/P3-5.1.0	INT1	2	PS	7.560	3.236	3.9	0.05	7.0	1.0000		-
DL/P3-5.1.0	INT1	EQ	PS	7.559	3.238	3.9	0.05	7.0	1.0000		-
DL/P3-5.1.0	INT2	1	PS	7.559	3.237	3.9	0.05	7.0	1.0000		-
DL/P3-5.1.0	INT2	2	PS	7.559	3.237	3.9	0.05	7.0	1.0000		-
DL/P3-5.1.0	INT2	EQ	PS	7.559	3.238	3.9	0.12	9.6	0.8793		-
DL/P3-5.2.0	FIRST	1	PS	7.083	0.980	1.0	0.05	7.0	1.0000		-
DL/P3-5.2.0	FIRST	2	PS	7.269	1.958	4.1	0.05	7.0	1.0000		-
DL/P3-5.2.0	FIRST	EQ	PS	7.578	3.350	3.9	0.05	7.0	1.0000		-
DL/P3-5.2.0	INT1	1	PS	7.579	3.347	3.8	0.05	7.0	1.0000		-
DL/P3-5.2.0	INT1	2	PS	7.579	3.347	3.8	0.05	7.0	1.0000		-
DL/P3-5.2.0	INT1	EQ	PS	7.578	3.350	3.9	0.05	7.0	1.0000		-
DL/P3-5.2.0	INT2	1	PS	7.579	3.349	3.9	0.05	7.0	1.0000		-
DL/P3-5.2.0	INT2	2	PS	7.579	3.349	3.9	0.05	7.0	1.0000		-
DL/P3-5.2.0	INT2	EQ	PS	7.578	3.350	3.9	0.12	9.4	0.8744		-
DL/P4-6.1.0	FIRST	1	PS	7.092	0.873	0.0	0.05	7.0	1.0000		-
DL/P4-6.1.0	FIRST	2	PS	7.311	1.636	0.2	0.05	7.0	1.0000		-
DL/P4-6.1.0	FIRST	EQ	PS	7.575	2.476	0.9	0.12	14.6	0.9773		-
DL/P4-6.2.0	FIRST	1	PS	7.113	0.984	1.5	0.05	7.0	1.0000		-
DL/P4-6.2.0	FIRST	2	PS	7.330	1.872	4.2	0.05	7.0	1.0000		-
DL/P4-6.2.0	FIRST	EQ	PS	7.654	2.939	3.8	0.12	10.6	0.9024		-
DL/P4-6.3.0	FIRST	1	PS	7.113	0.984	1.5	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FACSOL	CROSSTM s
DL/P4-6.3.0	FIRST	2	PS	7.331	1.878	4.2	0.05	7.0	1.0000	-
DL/P4-6.3.0	FIRST	EQ	PS	7.665	2.979	3.9	0.12	10.5	0.8996	-
DL/P4-6.4.0	FIRST	1	PS	7.113	1.000	1.8	0.05	7.0	1.0000	-
DL/P4-6.4.0	FIRST	2	PS	7.335	1.911	4.5	0.05	7.0	1.0000	-
DL/P4-6.4.0	FIRST	EQ	PS	7.686	3.073	4.1	0.12	10.1	0.8906	-
DL/P4-6.5.0	FIRST	1	PS	7.113	1.001	1.8	0.05	7.0	1.0000	-
DL/P4-6.5.0	FIRST	2	PS	7.335	1.914	4.6	0.05	7.0	1.0000	-
DL/P4-6.5.0	FIRST	EQ	PS	7.687	3.079	4.1	0.12	10.0	0.8895	-
DL/P4-6.6.0	FIRST	1	PS	7.117	1.009	1.7	0.05	7.0	1.0000	-
DL/P4-6.6.0	FIRST	2	PS	7.343	1.933	4.5	0.05	7.0	1.0000	-
DL/P4-6.6.0	FIRST	EQ	PS	7.698	3.111	4.1	0.12	10.0	0.8880	-
DL/P4-6.7.0	FIRST	1	PS	7.121	1.035	1.6	0.05	7.0	1.0000	-
DL/P4-6.7.0	FIRST	2	PS	7.352	1.971	4.4	0.05	7.0	1.0000	-
DL/P4-6.7.0	FIRST	EQ	PS	7.711	3.165	4.0	0.12	9.8	0.8857	-
DL/P5-7.1.0	FIRST	1	PS	7.081	0.635	0.0	0.05	7.0	1.0000	-
DL/P5-7.1.0	FIRST	2	PS	7.279	1.255	0.0	0.05	7.0	1.0000	-
DL/P5-7.1.0	FIRST	EQ	PS	7.510	1.923	0.0	0.12	16.0	1.0000	-
DL/P5-7.2.0	FIRST	1	PS	7.083	0.645	0.2	0.05	7.0	1.0000	-
DL/P5-7.2.0	FIRST	2	PS	7.287	1.279	0.9	0.05	7.0	1.0000	-
DL/P5-7.2.0	FIRST	EQ	PS	7.551	1.996	0.3	0.12	16.0	1.0000	-
DL/P5-7.3.0	FIRST	1	PS	7.083	0.645	0.2	0.05	7.0	1.0000	-
DL/P5-7.3.0	FIRST	2	PS	7.288	1.283	0.9	0.05	7.0	1.0000	-
DL/P5-7.3.0	FIRST	EQ	PS	7.560	2.024	0.3	0.12	16.0	1.0000	-
DL/P5-7.4.0	FIRST	1	PS	7.084	0.647	0.3	0.05	7.0	1.0000	-
DL/P5-7.4.0	FIRST	2	PS	7.289	1.286	0.9	0.05	7.0	1.0000	-
DL/P5-7.4.0	FIRST	EQ	PS	7.562	2.030	0.3	0.12	16.0	1.0000	-
DL/P5-7.5.0	FIRST	1	PS	7.087	0.658	0.3	0.05	7.0	1.0000	-
DL/P5-7.5.0	FIRST	2	PS	7.296	1.308	0.9	0.05	7.0	1.0000	-
DL/P5-7.5.0	FIRST	EQ	PS	7.573	2.061	0.3	0.12	16.0	1.0000	-
DL/P6-8.1.0-1	FIRST	1	PS	6.937	0.248	0.0	0.05	7.0	1.0000	-
DL/P6-8.1.0-1	FIRST	2	PS	6.985	0.377	0.0	0.05	7.0	1.0000	-
DL/P6-8.1.0-1	FIRST	EQ	PS	7.036	0.510	0.0	0.12	16.0	1.0000	-
DL/P6-8.2.0	FIRST	1	PS	7.182	0.865	0.9	0.05	7.0	1.0000	-
DL/P6-8.2.0	FIRST	2	PS	7.498	1.628	2.3	0.05	7.0	1.0000	-
DL/P6-8.2.0	FIRST	EQ	PS	7.927	2.526	0.4	0.12	14.4	0.9744	-
DL/P6-8.3.0	FIRST	1	PS	7.182	0.865	0.9	0.05	7.0	1.0000	-
DL/P6-8.3.0	FIRST	2	PS	7.498	1.628	2.3	0.05	7.0	1.0000	-
DL/P6-8.3.0	FIRST	EQ	PS	7.927	2.526	0.4	0.12	14.4	0.9744	-
DL/P6-8.4.0	FIRST	1	PS	7.183	0.868	1.0	0.05	7.0	1.0000	-
DL/P6-8.4.0	FIRST	2	PS	7.499	1.633	2.4	0.05	7.0	1.0000	-
DL/P6-8.4.0	FIRST	EQ	PS	7.930	2.534	0.5	0.12	14.3	0.9727	-
DL/P6-8.5.0	FIRST	1	PS	7.184	0.875	1.0	0.05	7.0	1.0000	-
DL/P6-8.5.0	FIRST	2	PS	7.503	1.643	2.4	0.05	7.0	1.0000	-
DL/P6-8.5.0	FIRST	EQ	PS	7.937	2.550	0.5	0.12	14.3	0.9721	-
DL/P6-8.6.0	FIRST	1	PS	7.189	0.877	1.0	0.05	7.0	1.0000	-
DL/P6-8.6.0	FIRST	2	PS	7.513	1.655	2.3	0.05	7.0	1.0000	-
DL/P6-8.6.0	FIRST	EQ	PS	7.952	2.573	0.5	0.12	14.2	0.9707	-
DL/P7-9.1.0-1	FIRST	1	PS	7.041	0.428	0.0	0.05	7.0	1.0000	-
DL/P7-9.1.0-1	FIRST	2	PS	7.202	0.740	0.0	0.05	7.0	1.0000	-
DL/P7-9.1.0-1	FIRST	EQ	PS	7.389	1.085	0.0	0.12	16.0	1.0000	-
DL/P7-9.2.0	FIRST	1	PS	7.073	0.480	0.3	0.05	7.0	1.0000	-
DL/P7-9.2.0	FIRST	2	PS	7.267	0.850	0.5	0.05	7.0	1.0000	-
DL/P7-9.2.0	FIRST	EQ	PS	7.493	1.254	0.2	0.12	16.0	1.0000	-
DL/P7-9.3.0	FIRST	1	PS	7.073	0.480	0.3	0.05	7.0	1.0000	-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FACSOL	CROSSTM s
DL/P7-9.3.0	FIRST	2	PS	7.268	0.852	0.5	0.05	7.0	1.0000	-
DL/P7-9.3.0	FIRST	EQ	PS	7.498	1.260	0.2	0.12	16.0	1.0000	-
DL/P7-9.4.0	FIRST	1	PS	7.074	0.481	0.4	0.05	7.0	1.0000	-
DL/P7-9.4.0	FIRST	2	PS	7.269	0.854	0.5	0.05	7.0	1.0000	-
DL/P7-9.4.0	FIRST	EQ	PS	7.499	1.263	0.3	0.12	16.0	1.0000	-
DL/P7-9.5.0	FIRST	1	PS	7.074	0.481	0.4	0.05	7.0	1.0000	-
DL/P7-9.5.0	FIRST	2	PS	7.269	0.854	0.5	0.05	7.0	1.0000	-
DL/P7-9.5.0	FIRST	EQ	PS	7.499	1.263	0.3	0.12	16.0	1.0000	-
DL/P7-9.6.0	FIRST	1	PS	7.078	0.488	0.4	0.05	7.0	1.0000	-
DL/P7-9.6.0	FIRST	2	PS	7.278	0.869	0.5	0.05	7.0	1.0000	-
DL/P7-9.6.0	FIRST	EQ	PS	7.514	1.286	0.3	0.12	16.0	1.0000	-
DL/P8-10.1.0	FIRST	1	PS	7.160	0.532	0.0	0.05	7.0	1.0000	-
DL/P8-10.1.0	FIRST	2	PS	7.452	0.948	1.5	0.05	7.0	1.0000	-
DL/P8-10.1.0	FIRST	EQ	PS	7.840	1.421	0.0	0.12	16.0	1.0000	-
DL/P8-10.2.0	FIRST	1	PS	7.165	0.528	2.5	0.05	7.0	1.0000	-
DL/P8-10.2.0	FIRST	2	PS	7.457	0.944	4.4	0.05	7.0	1.0000	-
DL/P8-10.2.0	FIRST	EQ	PS	7.887	1.442	2.5	0.12	14.2	0.9712	-
DL/P8-10.3.0	FIRST	1	PS	7.165	0.528	2.5	0.05	7.0	1.0000	-
DL/P8-10.3.0	FIRST	2	PS	7.458	0.946	4.4	0.05	7.0	1.0000	-
DL/P8-10.3.0	FIRST	EQ	PS	7.896	1.450	2.5	0.12	14.2	0.9704	-
DL/P8-10.4.0	FIRST	1	PS	7.172	0.533	2.7	0.05	7.0	1.0000	-
DL/P8-10.4.0	FIRST	2	PS	7.469	0.948	4.8	0.05	7.0	1.0000	-
DL/P8-10.4.0	FIRST	EQ	PS	7.919	1.461	3.0	0.12	13.6	0.9606	-
DL/P8-10.5.0	FIRST	1	PS	7.171	0.534	2.8	0.05	7.0	1.0000	-
DL/P8-10.5.0	FIRST	2	PS	7.469	0.950	4.8	0.05	7.0	1.0000	-
DL/P8-10.5.0	FIRST	EQ	PS	7.921	1.464	3.0	0.12	13.6	0.9599	-
DL/P8-10.6.0	FIRST	1	PS	7.179	0.526	2.6	0.05	7.0	1.0000	-
DL/P8-10.6.0	FIRST	2	PS	7.483	0.950	4.7	0.05	7.0	1.0000	-
DL/P8-10.6.0	FIRST	EQ	PS	7.941	1.470	2.9	0.12	13.6	0.9597	-
DL/P8-10.7.0	FIRST	1	PS	7.184	0.538	2.5	0.05	7.0	1.0000	-
DL/P8-10.7.0	FIRST	2	PS	7.494	0.967	4.6	0.05	7.0	1.0000	-
DL/P8-10.7.0	FIRST	EQ	PS	7.957	1.492	2.9	0.12	13.6	0.9593	-
DL/P9-11.1.0	FIRST	1	PS	7.219	0.404	4.4	0.05	7.0	1.0000	-
DL/P9-11.1.0	FIRST	2	PS	7.580	0.556	7.0	0.05	7.0	1.0000	-
DL/P9-11.1.0	FIRST	EQ	PS	8.254	0.755	1.7	0.05	7.0	1.0000	-
DL/P9-11.1.0	CROSS	1	PS	8.283	0.746	0.0	0.05	7.0	1.0000	384
DL/P9-11.1.0	CROSS	2	PS	8.283	0.746	0.0	0.05	7.0	1.0000	384
DL/P9-11.1.0	CROSS	EQ	PS	8.283	0.746	0.0	0.12	15.7	0.9948	384
DL/P9-11.2.0	FIRST	1	PS	7.173	0.343	7.8	0.05	7.0	1.0000	-
DL/P9-11.2.0	FIRST	2	PS	7.545	0.530	10.0	0.05	7.0	1.0000	-
DL/P9-11.2.0	FIRST	EQ	PS	8.309	0.761	5.2	0.05	7.0	1.0000	-
DL/P9-11.2.0	CROSS	1	PS	8.360	0.750	3.6	0.05	7.0	1.0000	406
DL/P9-11.2.0	CROSS	2	PS	8.360	0.750	3.6	0.05	7.0	1.0000	406
DL/P9-11.2.0	CROSS	EQ	PS	8.360	0.750	3.6	0.12	11.7	0.9245	406
DL/P9-11.3.0	FIRST	1	PS	7.173	0.343	7.8	0.05	7.0	1.0000	-
DL/P9-11.3.0	FIRST	2	PS	7.547	0.531	10.0	0.05	7.0	1.0000	-
DL/P9-11.3.0	FIRST	EQ	PS	8.321	0.772	5.3	0.05	7.0	1.0000	-
DL/P9-11.3.0	CROSS	1	PS	8.373	0.761	3.6	0.05	7.0	1.0000	406
DL/P9-11.3.0	CROSS	2	PS	8.373	0.761	3.6	0.05	7.0	1.0000	406
DL/P9-11.3.0	CROSS	EQ	PS	8.373	0.761	3.6	0.12	11.6	0.9233	406
DL/P9-11.4.0	FIRST	1	PS	7.178	0.344	7.9	0.05	7.0	1.0000	-
DL/P9-11.4.0	FIRST	2	PS	7.557	0.534	10.2	0.05	7.0	1.0000	-
DL/P9-11.4.0	FIRST	EQ	PS	8.342	0.780	5.7	0.05	7.0	1.0000	-
DL/P9-11.4.0	CROSS	1	PS	8.396	0.768	4.0	0.05	7.0	1.0000	408

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FACSOL	CROSSTM s
DL/P9-11.4.0	CROSS	2	PS	8.396	0.768	4.0	0.05	7.0	1.0000	408
DL/P9-11.4.0	CROSS	EQ	PS	8.396	0.768	4.0	0.12	11.1	0.9124	408
DL/P9-11.5.0	FIRST	1	PS	7.178	0.347	7.9	0.05	7.0	1.0000	-
DL/P9-11.5.0	FIRST	2	PS	7.557	0.537	10.2	0.05	7.0	1.0000	-
DL/P9-11.5.0	FIRST	EQ	PS	8.344	0.783	5.7	0.05	7.0	1.0000	-
DL/P9-11.5.0	CROSS	1	PS	8.398	0.770	4.0	0.05	7.0	1.0000	409
DL/P9-11.5.0	CROSS	2	PS	8.398	0.770	4.0	0.05	7.0	1.0000	409
DL/P9-11.5.0	CROSS	EQ	PS	8.398	0.770	4.0	0.12	11.0	0.9116	409
DL/P9-11.6.0	FIRST	1	PS	7.212	0.334	7.2	0.05	7.0	1.0000	-
DL/P9-11.6.0	FIRST	2	PS	7.592	0.525	10.1	0.05	7.0	1.0000	-
DL/P9-11.6.0	FIRST	EQ	PS	8.400	0.775	5.4	0.05	7.0	1.0000	-
DL/P9-11.6.0	CROSS	1	PS	8.450	0.762	3.8	0.05	7.0	1.0000	405
DL/P9-11.6.0	CROSS	2	PS	8.450	0.762	3.8	0.05	7.0	1.0000	405
DL/P9-11.6.0	CROSS	EQ	PS	8.450	0.762	3.8	0.12	11.1	0.9123	405
DL/P9-11.7.0	FIRST	1	PS	7.221	0.354	7.0	0.05	7.0	1.0000	-
DL/P9-11.7.0	FIRST	2	PS	7.602	0.543	10.0	0.05	7.0	1.0000	-
DL/P9-11.7.0	FIRST	EQ	PS	8.417	0.793	5.3	0.05	7.0	1.0000	-
DL/P9-11.7.0	CROSS	1	PS	8.466	0.780	3.8	0.05	7.0	1.0000	404
DL/P9-11.7.0	CROSS	2	PS	8.466	0.780	3.8	0.05	7.0	1.0000	404
DL/P9-11.7.0	CROSS	EQ	PS	8.466	0.780	3.8	0.12	11.1	0.9122	404
DL/P10-12.1.0	FIRST	1	PS	7.149	-0.066	6.4	0.05	7.0	1.0000	-
DL/P10-12.1.0	FIRST	2	PS	7.442	-0.296	9.2	0.05	7.0	1.0000	-
DL/P10-12.1.0	FIRST	EQ	PS	8.138	-0.583	4.4	0.05	7.0	1.0000	-
DL/P10-12.1.0	CROSS	1	PS	8.203	-0.587	0.0	0.05	7.0	1.0000	394
DL/P10-12.1.0	CROSS	2	PS	8.203	-0.587	0.0	0.05	7.0	1.0000	394
DL/P10-12.1.0	CROSS	EQ	PS	8.203	-0.587	0.0	0.12	16.0	1.0000	394
DL/P11-13.1..	FIRST	1	PS	7.123	-0.111	1.4	0.05	7.0	1.0000	-
DL/P11-13.1..	FIRST	2	PS	7.344	-0.404	5.1	0.05	7.0	1.0000	-
DL/P11-13.1..	FIRST	EQ	PS	7.639	-1.046	10.9	0.08	7.0	0.5234	-
DL/P11-13.2..	FIRST	1	PS	7.175	-0.262	2.1	0.05	7.0	1.0000	-
DL/P11-13.2..	FIRST	2	PS	7.413	-0.727	7.4	0.05	7.0	1.0000	-
DL/P11-13.2..	FIRST	EQ	PS	7.890	-1.472	9.7	0.09	7.7	0.6299	-
DL/P16-18.1..	FIRST	1	PS	7.034	-0.641	0.0	0.05	7.0	1.0000	-
DL/P16-18.1..	FIRST	2	PS	7.201	-1.520	0.0	0.05	7.0	1.0000	-
DL/P16-18.1..	FIRST	EQ	PS	7.508	-3.173	0.0	0.12	16.0	1.0000	-
DL/P16-18.2..	FIRST	1	PS	7.034	-0.641	0.0	0.05	7.0	1.0000	-
DL/P16-18.2..	FIRST	2	PS	7.201	-1.520	0.0	0.05	7.0	1.0000	-
DL/P16-18.2..	FIRST	EQ	PS	7.508	-3.173	0.0	0.12	16.0	1.0000	-
DL/P4-7.1.0	FIRST	1	PS	7.128	0.838	0.0	0.05	7.0	1.0000	-
DL/P4-7.1.0	FIRST	2	PS	7.374	1.688	0.0	0.05	7.0	1.0000	-
DL/P4-7.1.0	FIRST	EQ	PS	7.672	2.629	1.0	0.12	14.0	0.9663	-
DL/P4-7.2.0	FIRST	1	PS	7.151	0.940	0.8	0.05	7.0	1.0000	-
DL/P4-7.2.0	FIRST	2	PS	7.399	1.931	4.4	0.05	7.0	1.0000	-
DL/P4-7.2.0	FIRST	EQ	PS	7.785	3.207	5.6	0.12	7.9	0.8383	-
DL/P4-7.3.0	FIRST	1	PS	7.151	0.940	0.8	0.05	7.0	1.0000	-
DL/P4-7.3.0	FIRST	2	PS	7.401	1.938	4.4	0.05	7.0	1.0000	-
DL/P4-7.3.0	FIRST	EQ	PS	7.797	3.255	5.6	0.12	7.7	0.8336	-
DL/P5-8.1.0	FIRST	1	PS	7.081	0.635	0.0	0.05	7.0	1.0000	-
DL/P5-8.1.0	FIRST	2	PS	7.279	1.255	0.0	0.05	7.0	1.0000	-
DL/P5-8.1.0	FIRST	EQ	PS	7.510	1.923	0.0	0.12	16.0	1.0000	-
DL/P5-8.2.0	FIRST	1	PS	7.183	0.871	0.9	0.05	7.0	1.0000	-
DL/P5-8.2.0	FIRST	2	PS	7.500	1.635	2.3	0.05	7.0	1.0000	-
DL/P5-8.2.0	FIRST	EQ	PS	7.929	2.535	0.4	0.12	14.4	0.9740	-
DL/P5-8.3.0	FIRST	1	PS	7.183	0.871	0.9	0.05	7.0	1.0000	-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DL/P5-8.3.0	FIRST	2	PS	7.502	1.640	2.2	0.05	7.0	1.0000		-
DL/P5-8.3.0	FIRST	EQ	PS	7.942	2.578	0.4	0.12	14.3	0.9725		-
DL/P5-8.4.0	FIRST	1	PS	7.183	0.874	1.0	0.05	7.0	1.0000		-
DL/P5-8.4.0	FIRST	2	PS	7.503	1.645	2.4	0.05	7.0	1.0000		-
DL/P5-8.4.0	FIRST	EQ	PS	7.946	2.586	0.5	0.12	14.2	0.9708		-
DL/P5-8.5.0	FIRST	1	PS	7.186	0.889	1.0	0.05	7.0	1.0000		-
DL/P5-8.5.0	FIRST	2	PS	7.510	1.666	2.3	0.05	7.0	1.0000		-
DL/P5-8.5.0	FIRST	EQ	PS	7.957	2.616	0.5	0.12	14.1	0.9696		-
DL/P5-8.6.0	FIRST	1	PS	7.191	0.891	1.0	0.05	7.0	1.0000		-
DL/P5-8.6.0	FIRST	2	PS	7.520	1.678	2.3	0.05	7.0	1.0000		-
DL/P5-8.6.0	FIRST	EQ	PS	7.973	2.640	0.5	0.12	14.1	0.9682		-
DL/P6-9.1.0	FIRST	1	PS	7.088	0.595	0.0	0.05	7.0	1.0000		-
DL/P6-9.1.0	FIRST	2	PS	7.303	0.997	0.0	0.05	7.0	1.0000		-
DL/P6-9.1.0	FIRST	EQ	PS	7.550	1.429	0.0	0.12	16.0	1.0000		-
DL/P6-9.2.0	FIRST	1	PS	7.182	0.865	0.9	0.05	7.0	1.0000		-
DL/P6-9.2.0	FIRST	2	PS	7.498	1.628	2.3	0.05	7.0	1.0000		-
DL/P6-9.2.0	FIRST	EQ	PS	7.927	2.526	0.4	0.12	14.4	0.9744		-
DL/P6-9.3.0	FIRST	1	PS	7.182	0.865	0.9	0.05	7.0	1.0000		-
DL/P6-9.3.0	FIRST	2	PS	7.500	1.631	2.2	0.05	7.0	1.0000		-
DL/P6-9.3.0	FIRST	EQ	PS	7.937	2.537	0.4	0.12	14.4	0.9736		-
DL/P6-9.4.0	FIRST	1	PS	7.183	0.868	1.0	0.05	7.0	1.0000		-
DL/P6-9.4.0	FIRST	2	PS	7.501	1.636	2.4	0.05	7.0	1.0000		-
DL/P6-9.4.0	FIRST	EQ	PS	7.940	2.545	0.5	0.12	14.3	0.9719		-
DL/P6-9.5.0	FIRST	1	PS	7.184	0.875	1.0	0.05	7.0	1.0000		-
DL/P6-9.5.0	FIRST	2	PS	7.505	1.647	2.4	0.05	7.0	1.0000		-
DL/P6-9.5.0	FIRST	EQ	PS	7.947	2.561	0.5	0.12	14.2	0.9712		-
DL/P6-9.6.0	FIRST	1	PS	7.189	0.877	1.0	0.05	7.0	1.0000		-
DL/P6-9.6.0	FIRST	2	PS	7.514	1.658	2.3	0.05	7.0	1.0000		-
DL/P6-9.6.0	FIRST	EQ	PS	7.962	2.584	0.5	0.12	14.2	0.9699		-
DL/P7-10.1.0	FIRST	1	PS	7.160	0.532	0.0	0.05	7.0	1.0000		-
DL/P7-10.1.0	FIRST	2	PS	7.452	0.948	1.5	0.05	7.0	1.0000		-
DL/P7-10.1.0	FIRST	EQ	PS	7.840	1.421	0.0	0.12	16.0	1.0000		-
DL/P7-10.2.0	FIRST	1	PS	7.165	0.528	2.5	0.05	7.0	1.0000		-
DL/P7-10.2.0	FIRST	2	PS	7.457	0.944	4.4	0.05	7.0	1.0000		-
DL/P7-10.2.0	FIRST	EQ	PS	7.887	1.442	2.5	0.12	14.2	0.9712		-
DL/P7-10.3.0	FIRST	1	PS	7.165	0.528	2.5	0.05	7.0	1.0000		-
DL/P7-10.3.0	FIRST	2	PS	7.458	0.946	4.4	0.05	7.0	1.0000		-
DL/P7-10.3.0	FIRST	EQ	PS	7.896	1.450	2.5	0.12	14.2	0.9704		-
DL/P7-10.4.0	FIRST	1	PS	7.172	0.533	2.7	0.05	7.0	1.0000		-
DL/P7-10.4.0	FIRST	2	PS	7.469	0.948	4.8	0.05	7.0	1.0000		-
DL/P7-10.4.0	FIRST	EQ	PS	7.919	1.461	3.0	0.12	13.6	0.9606		-
DL/P7-10.5.0	FIRST	1	PS	7.171	0.534	2.8	0.05	7.0	1.0000		-
DL/P7-10.5.0	FIRST	2	PS	7.469	0.950	4.8	0.05	7.0	1.0000		-
DL/P7-10.5.0	FIRST	EQ	PS	7.921	1.464	3.0	0.12	13.6	0.9599		-
DL/P7-10.6.0	FIRST	1	PS	7.179	0.526	2.6	0.05	7.0	1.0000		-
DL/P7-10.6.0	FIRST	2	PS	7.483	0.950	4.7	0.05	7.0	1.0000		-
DL/P7-10.6.0	FIRST	EQ	PS	7.941	1.470	2.9	0.12	13.6	0.9597		-
DL/P7-10.7.0	FIRST	1	PS	7.184	0.538	2.5	0.05	7.0	1.0000		-
DL/P7-10.7.0	FIRST	2	PS	7.494	0.967	4.6	0.05	7.0	1.0000		-
DL/P7-10.7.0	FIRST	EQ	PS	7.957	1.492	2.9	0.12	13.6	0.9593		-
DL/P8-11.1.0	FIRST	1	PS	7.147	0.443	9.1	0.05	7.0	1.0000		-
DL/P8-11.1.0	FIRST	2	PS	7.560	0.755	10.8	0.05	6.8	0.9915		-
DL/P8-11.1.0	FIRST	EQ	PS	8.469	1.146	2.6	0.05	7.0	1.0000		-
DL/P8-11.1.0	CROSS	1	PS	8.506	1.135	0.0	0.05	7.0	1.0000		380

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DL/P8-11.1.0	CROSS	2	PS	8.506	1.135	0.0	0.05	7.0	1.0000		380
DL/P8-11.1.0	CROSS	EQ	PS	8.506	1.135	0.0	0.12	14.7	0.9790		380
DL/P8-11.2.0	FIRST	1	PS	7.118	0.396	10.7	0.05	7.0	1.0000		-
DL/P8-11.2.0	FIRST	2	PS	7.518	0.739	13.1	0.05	4.2	0.8821		-
DL/P8-11.2.0	FIRST	EQ	PS	8.480	1.167	7.4	0.05	7.0	0.9986		-
DL/P8-11.2.0	CROSS	1	PS	8.561	1.152	5.1	0.05	7.0	1.0000		413
DL/P8-11.2.0	CROSS	2	PS	8.561	1.152	5.1	0.05	7.0	1.0000		413
DL/P8-11.2.0	CROSS	EQ	PS	8.561	1.152	5.1	0.12	9.2	0.8709		413
DL/P8-11.3.0	FIRST	1	PS	7.118	0.396	10.7	0.05	7.0	1.0000		-
DL/P8-11.3.0	FIRST	2	PS	7.522	0.741	13.1	0.05	4.3	0.8836		-
DL/P8-11.3.0	FIRST	EQ	PS	8.494	1.181	7.4	0.05	6.9	0.9958		-
DL/P8-11.3.0	CROSS	1	PS	8.576	1.166	5.1	0.05	7.0	1.0000		413
DL/P8-11.3.0	CROSS	2	PS	8.576	1.166	5.1	0.05	7.0	1.0000		413
DL/P8-11.3.0	CROSS	EQ	PS	8.576	1.166	5.1	0.12	9.1	0.8692		413
DL/P8-11.4.0	FIRST	1	PS	7.123	0.398	10.8	0.05	7.0	1.0000		-
DL/P8-11.4.0	FIRST	2	PS	7.530	0.745	13.3	0.05	4.0	0.8701		-
DL/P8-11.4.0	FIRST	EQ	PS	8.512	1.191	7.9	0.05	6.3	0.9738		-
DL/P8-11.4.0	CROSS	1	PS	8.595	1.175	5.6	0.05	7.0	1.0000		416
DL/P8-11.4.0	CROSS	2	PS	8.595	1.175	5.6	0.05	7.0	1.0000		416
DL/P8-11.4.0	CROSS	EQ	PS	8.595	1.175	5.6	0.12	8.5	0.8532		416
DL/P8-11.5.0	FIRST	1	PS	7.123	0.401	10.8	0.05	7.0	1.0000		-
DL/P8-11.5.0	FIRST	2	PS	7.530	0.748	13.3	0.05	4.0	0.8686		-
DL/P8-11.5.0	FIRST	EQ	PS	8.513	1.194	7.9	0.05	6.3	0.9722		-
DL/P8-11.5.0	CROSS	1	PS	8.596	1.178	5.7	0.05	7.0	1.0000		417
DL/P8-11.5.0	CROSS	2	PS	8.596	1.178	5.7	0.05	7.0	1.0000		417
DL/P8-11.5.0	CROSS	EQ	PS	8.596	1.178	5.7	0.12	8.4	0.8519		417
DL/P8-11.6.0	FIRST	1	PS	7.173	0.385	9.9	0.05	7.0	1.0000		-
DL/P8-11.6.0	FIRST	2	PS	7.568	0.731	13.1	0.05	4.1	0.8729		-
DL/P8-11.6.0	FIRST	EQ	PS	8.580	1.186	7.4	0.05	6.6	0.9868		-
DL/P8-11.6.0	CROSS	1	PS	8.655	1.170	5.3	0.05	7.0	1.0000		411
DL/P8-11.6.0	CROSS	2	PS	8.655	1.171	5.3	0.05	7.0	1.0000		411
DL/P8-11.6.0	CROSS	EQ	PS	8.655	1.170	5.3	0.12	8.7	0.8576		411
DL/P8-11.7.0	FIRST	1	PS	7.189	0.406	9.6	0.05	7.0	1.0000		-
DL/P8-11.7.0	FIRST	2	PS	7.581	0.751	13.1	0.05	4.1	0.8734		-
DL/P8-11.7.0	FIRST	EQ	PS	8.602	1.207	7.2	0.05	6.7	0.9908		-
DL/P8-11.7.0	CROSS	1	PS	8.675	1.191	5.1	0.05	7.0	1.0000		409
DL/P8-11.7.0	CROSS	2	PS	8.675	1.191	5.1	0.05	7.0	1.0000		409
DL/P8-11.7.0	CROSS	EQ	PS	8.675	1.191	5.1	0.12	8.7	0.8589		409
DL/P9-12.1.0	FIRST	1	PS	7.151	0.162	10.4	0.05	7.0	1.0000		-
DL/P9-12.1.0	FIRST	2	PS	7.628	0.181	12.1	0.05	5.5	0.9399		-
DL/P9-12.1.0	FIRST	EQ	PS	8.777	0.073	3.9	0.05	7.0	0.9985		-
DL/P9-12.1.0	CROSS	1	PS	8.833	0.056	0.0	0.05	7.0	1.0000		375
DL/P9-12.1.0	CROSS	2	PS	8.833	0.056	0.0	0.05	7.0	1.0000		375
DL/P9-12.1.0	CROSS	EQ	PS	8.833	0.056	0.0	0.10	14.1	0.9256		375
DL/P4-8.1.0	FIRST	1	PS	7.128	0.838	0.0	0.05	7.0	1.0000		-
DL/P4-8.1.0	FIRST	2	PS	7.374	1.688	0.0	0.05	7.0	1.0000		-
DL/P4-8.1.0	FIRST	EQ	PS	7.672	2.629	1.0	0.12	14.0	0.9663		-
DL/P5-9.1.0	FIRST	1	PS	7.180	0.859	0.0	0.05	7.0	1.0000		-
DL/P5-9.1.0	FIRST	2	PS	7.498	1.617	1.3	0.05	7.0	1.0000		-
DL/P5-9.1.0	FIRST	EQ	SB	7.917	2.504	-0.0	0.12	15.1	0.9852		-
DL/P5-9.2.0	FIRST	1	PS	7.183	0.871	0.9	0.05	7.0	1.0000		-
DL/P5-9.2.0	FIRST	2	PS	7.500	1.635	2.3	0.05	7.0	1.0000		-
DL/P5-9.2.0	FIRST	EQ	PS	7.929	2.535	0.4	0.12	14.4	0.9740		-
DL/P5-9.3.0	FIRST	1	PS	7.183	0.871	0.9	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DL/P5-9.3.0	FIRST	2	PS	7.503	1.643	2.2	0.05	7.0	1.0000		-
DL/P5-9.3.0	FIRST	EQ	PS	7.953	2.589	0.4	0.12	14.3	0.9716		-
DL/P5-9.4.0	FIRST	1	PS	7.183	0.874	1.0	0.05	7.0	1.0000		-
DL/P5-9.4.0	FIRST	2	PS	7.505	1.648	2.4	0.05	7.0	1.0000		-
DL/P5-9.4.0	FIRST	EQ	PS	7.956	2.597	0.5	0.12	14.2	0.9699		-
DL/P5-9.5.0	FIRST	1	PS	7.186	0.889	1.0	0.05	7.0	1.0000		-
DL/P5-9.5.0	FIRST	2	PS	7.511	1.670	2.3	0.05	7.0	1.0000		-
DL/P5-9.5.0	FIRST	EQ	PS	7.968	2.628	0.5	0.12	14.1	0.9687		-
DL/P5-9.6.0	FIRST	1	PS	7.191	0.891	1.0	0.05	7.0	1.0000		-
DL/P5-9.6.0	FIRST	2	PS	7.521	1.681	2.3	0.05	7.0	1.0000		-
DL/P5-9.6.0	FIRST	EQ	PS	7.983	2.652	0.5	0.12	14.0	0.9673		-
DL/P6-10.1.0	FIRST	1	PS	7.175	0.665	0.0	0.05	7.0	1.0000		-
DL/P6-10.1.0	FIRST	2	PS	7.492	1.103	1.5	0.05	7.0	1.0000		-
DL/P6-10.1.0	FIRST	EQ	PS	7.907	1.596	0.0	0.12	15.8	0.9966		-
DL/P7-11.1.0	FIRST	1	PS	7.147	0.443	9.1	0.05	7.0	1.0000		-
DL/P7-11.1.0	FIRST	2	PS	7.560	0.755	10.8	0.05	6.8	0.9915		-
DL/P7-11.1.0	FIRST	EQ	PS	8.469	1.146	2.6	0.05	7.0	1.0000		-
DL/P7-11.1.0	CROSS	1	PS	8.506	1.135	0.0	0.05	7.0	1.0000		380
DL/P7-11.1.0	CROSS	2	PS	8.506	1.135	0.0	0.05	7.0	1.0000		380
DL/P7-11.1.0	CROSS	EQ	PS	8.506	1.135	0.0	0.12	14.7	0.9790		380
DL/P7-11.2.0	FIRST	1	PS	7.118	0.396	10.7	0.05	7.0	1.0000		-
DL/P7-11.2.0	FIRST	2	PS	7.518	0.739	13.1	0.05	4.2	0.8821		-
DL/P7-11.2.0	FIRST	EQ	PS	8.480	1.167	7.4	0.05	7.0	0.9986		-
DL/P7-11.2.0	CROSS	1	PS	8.561	1.152	5.1	0.05	7.0	1.0000		413
DL/P7-11.2.0	CROSS	2	PS	8.561	1.152	5.1	0.05	7.0	1.0000		413
DL/P7-11.2.0	CROSS	EQ	PS	8.561	1.152	5.1	0.12	9.2	0.8709		413
DL/P7-11.3.0	FIRST	1	PS	7.118	0.396	10.7	0.05	7.0	1.0000		-
DL/P7-11.3.0	FIRST	2	PS	7.522	0.741	13.1	0.05	4.3	0.8836		-
DL/P7-11.3.0	FIRST	EQ	PS	8.494	1.181	7.4	0.05	6.9	0.9958		-
DL/P7-11.3.0	CROSS	1	PS	8.576	1.166	5.1	0.05	7.0	1.0000		413
DL/P7-11.3.0	CROSS	2	PS	8.576	1.166	5.1	0.05	7.0	1.0000		413
DL/P7-11.3.0	CROSS	EQ	PS	8.576	1.166	5.1	0.12	9.1	0.8692		413
DL/P7-11.4.0	FIRST	1	PS	7.123	0.398	10.8	0.05	7.0	1.0000		-
DL/P7-11.4.0	FIRST	2	PS	7.530	0.745	13.3	0.05	4.0	0.8701		-
DL/P7-11.4.0	FIRST	EQ	PS	8.512	1.191	7.9	0.05	6.3	0.9738		-
DL/P7-11.4.0	CROSS	1	PS	8.595	1.175	5.6	0.05	7.0	1.0000		416
DL/P7-11.4.0	CROSS	2	PS	8.595	1.175	5.6	0.05	7.0	1.0000		416
DL/P7-11.4.0	CROSS	EQ	PS	8.595	1.175	5.6	0.12	8.5	0.8532		416
DL/P7-11.5.0	FIRST	1	PS	7.123	0.401	10.8	0.05	7.0	1.0000		-
DL/P7-11.5.0	FIRST	2	PS	7.530	0.748	13.3	0.05	4.0	0.8686		-
DL/P7-11.5.0	FIRST	EQ	PS	8.513	1.194	7.9	0.05	6.3	0.9722		-
DL/P7-11.5.0	CROSS	1	PS	8.596	1.178	5.7	0.05	7.0	1.0000		417
DL/P7-11.5.0	CROSS	2	PS	8.596	1.178	5.7	0.05	7.0	1.0000		417
DL/P7-11.5.0	CROSS	EQ	PS	8.596	1.178	5.7	0.12	8.4	0.8519		417
DL/P7-11.6.0	FIRST	1	PS	7.173	0.385	9.9	0.05	7.0	1.0000		-
DL/P7-11.6.0	FIRST	2	PS	7.568	0.731	13.1	0.05	4.1	0.8729		-
DL/P7-11.6.0	FIRST	EQ	PS	8.580	1.186	7.4	0.05	6.6	0.9868		-
DL/P7-11.6.0	CROSS	1	PS	8.655	1.170	5.3	0.05	7.0	1.0000		411
DL/P7-11.6.0	CROSS	2	PS	8.655	1.170	5.3	0.05	7.0	1.0000		411
DL/P7-11.6.0	CROSS	EQ	PS	8.655	1.171	5.3	0.12	8.7	0.8576		411
DL/P7-11.7.0	FIRST	1	PS	7.189	0.406	9.6	0.05	7.0	1.0000		-
DL/P7-11.7.0	FIRST	2	PS	7.581	0.751	13.1	0.05	4.1	0.8734		-
DL/P7-11.7.0	FIRST	EQ	PS	8.602	1.207	7.2	0.05	6.7	0.9908		-
DL/P7-11.7.0	CROSS	1	PS	8.675	1.191	5.1	0.05	7.0	1.0000		409

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DL/P7-11.7.0	CROSS	2	PS	8.675	1.191	5.1	0.05	7.0	1.0000		409
DL/P7-11.7.0	CROSS	EQ	PS	8.675	1.191	5.1	0.12	8.7	0.8589		409
DL/P4-9.1.0	FIRST	1	PS	7.226	1.061	0.0	0.05	7.0	1.0000		-
DL/P4-9.1.0	FIRST	2	PS	7.568	2.038	4.1	0.05	7.0	1.0000		-
DL/P4-9.1.0	FIRST	EQ	PS	8.099	3.254	1.6	0.12	10.8	0.9073		-
DL/P5-10.1.0	FIRST	1	PS	7.268	0.910	0.0	0.05	7.0	1.0000		-
DL/P5-10.1.0	FIRST	2	PS	7.635	1.704	6.0	0.05	7.0	1.0000		-
DL/P5-10.1.0	FIRST	EQ	SB	8.331	2.729	-0.1	0.12	13.3	0.9540		-
DL/P6-11.1.0	FIRST	1	PS	7.189	0.600	8.3	0.05	7.0	1.0000		-
DL/P6-11.1.0	FIRST	2	PS	7.606	0.925	10.7	0.05	6.3	0.9738		-
DL/P6-11.1.0	FIRST	EQ	PS	8.547	1.314	2.2	0.05	7.0	1.0000		-
DL/P6-11.1.0	CROSS	1	SB	8.580	1.303	-0.0	0.05	7.0	1.0000		377
DL/P6-11.1.0	CROSS	2	SB	8.580	1.303	-0.0	0.05	7.0	1.0000		377
DL/P6-11.1.0	CROSS	EQ	SB	8.580	1.303	-0.0	0.12	7.1	0.8163		377
DL/S1.1.0-1	FIRST	1	PS	6.890	0.122	0.0	0.05	7.0	1.0000		-
DL/S1.1.0-1	FIRST	2	PS	6.890	0.124	0.0	0.05	7.0	1.0000		-
DL/S1.1.0-1	FIRST	EQ	PS	6.891	0.127	0.0	0.12	16.0	1.0000		-
DL/S1.2.0-1	FIRST	1	PS	6.890	0.122	0.0	0.05	7.0	1.0000		-
DL/S1.2.0-1	FIRST	2	PS	6.890	0.124	0.0	0.05	7.0	1.0000		-
DL/S1.2.0-1	FIRST	EQ	PS	6.891	0.127	0.0	0.12	16.0	1.0000		-
DL/S2.1.0-1	FIRST	1	PS	6.906	0.272	0.0	0.05	7.0	1.0000		-
DL/S2.1.0-1	FIRST	2	PS	6.925	0.447	0.0	0.05	7.0	1.0000		-
DL/S2.1.0-1	FIRST	EQ	PS	6.950	0.688	0.0	0.12	16.0	1.0000		-
DL/S3.1.0-1	FIRST	1	SB	6.922	0.354	-0.6	0.05	7.0	1.0000		-
DL/S3.1.0-1	FIRST	2	SB	6.954	0.613	-1.5	0.05	7.0	1.0000		-
DL/S3.1.0-1	FIRST	EQ	SB	6.994	0.947	-2.4	0.05	7.0	1.0000		-
DL/S3.1.0-1	INT1	1	SB	6.994	0.947	-2.4	0.05	7.0	1.0000		-
DL/S3.1.0-1	INT1	2	SB	6.994	0.947	-2.4	0.05	7.0	1.0000		-
DL/S3.1.0-1	INT1	EQ	SB	6.994	0.947	-2.4	0.05	7.0	1.0000		-
DL/S3.1.0-1	INT2	1	SB	6.994	0.947	-2.4	0.05	7.0	1.0000		-
DL/S3.1.0-1	INT2	2	SB	6.994	0.947	-2.4	0.05	7.0	1.0000		-
DL/S3.1.0-1	INT2	EQ	SB	6.994	0.947	-2.4	0.12	16.0	1.0000		-
DL/S3.2.0	FIRST	1	SB	6.927	0.391	-0.6	0.05	7.0	1.0000		-
DL/S3.2.0	FIRST	2	SB	6.965	0.689	-1.5	0.05	7.0	1.0000		-
DL/S3.2.0	FIRST	EQ	SB	7.011	1.068	-2.4	0.05	7.0	1.0000		-
DL/S3.2.0	INT1	1	SB	7.011	1.068	-2.4	0.05	7.0	1.0000		-
DL/S3.2.0	INT1	2	SB	7.011	1.068	-2.4	0.05	7.0	1.0000		-
DL/S3.2.0	INT1	EQ	SB	7.011	1.068	-2.4	0.05	7.0	1.0000		-
DL/S3.2.0	INT2	1	SB	7.011	1.068	-2.4	0.05	7.0	1.0000		-
DL/S3.2.0	INT2	2	SB	7.011	1.068	-2.4	0.05	7.0	1.0000		-
DL/S3.2.0	INT2	EQ	SB	7.011	1.068	-2.4	0.12	16.0	1.0000		-
DL/S3.3.0	FIRST	1	SB	6.942	0.502	-0.9	0.05	7.0	1.0000		-
DL/S3.3.0	FIRST	2	SB	6.993	0.919	-2.0	0.05	7.0	1.0000		-
DL/S3.3.0	FIRST	EQ	SB	7.055	1.429	-3.1	0.05	7.0	1.0000		-
DL/S3.3.0	INT2	1	SB	7.055	1.429	-3.1	0.05	7.0	1.0000		-
DL/S3.3.0	INT2	2	SB	7.055	1.429	-3.1	0.05	7.0	1.0000		-
DL/S3.3.0	INT2	EQ	SB	7.055	1.429	-3.1	0.12	15.4	0.9908		-
DL/S4.1.0	FIRST	1	PS	6.936	0.361	0.0	0.05	7.0	1.0000		-
DL/S4.1.0	FIRST	2	SB	6.984	0.605	-0.0	0.05	7.0	1.0000		-
DL/S4.1.0	FIRST	EQ	SB	7.032	0.854	-0.2	0.12	16.0	1.0000		-
DL/S4.2.0	FIRST	1	SB	6.958	0.480	-0.6	0.05	7.0	1.0000		-
DL/S4.2.0	FIRST	2	SB	7.025	0.845	-1.5	0.05	7.0	1.0000		-
DL/S4.2.0	FIRST	EQ	SB	7.101	1.251	-2.1	0.12	16.0	1.0000		-
DL/S4.3.0	FIRST	1	SB	6.960	0.492	-0.7	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DL/S4.3.0	FIRST	2	SB	7.029	0.873	-1.7	0.05	7.0	1.0000		-
DL/S4.3.0	FIRST	EQ	SB	7.112	1.307	-2.2	0.12	16.0	1.0000		-
DL/S4.4.0	FIRST	1	SB	6.964	0.510	-0.6	0.05	7.0	1.0000		-
DL/S4.4.0	FIRST	2	SB	7.037	0.911	-1.6	0.05	7.0	1.0000		-
DL/S4.4.0	FIRST	EQ	SB	7.124	1.364	-2.2	0.12	16.0	1.0000		-
DL/S5.1.0-1	FIRST	1	PS	6.981	0.458	0.0	0.05	7.0	1.0000		-
DL/S5.1.0-1	FIRST	2	PS	7.078	0.805	0.0	0.05	7.0	1.0000		-
DL/S5.1.0-1	FIRST	EQ	PS	7.186	1.181	0.0	0.12	16.0	1.0000		-
DL/S5.2.0	FIRST	1	SB	7.003	0.529	-0.2	0.05	7.0	1.0000		-
DL/S5.2.0	FIRST	2	SB	7.121	0.951	-0.3	0.05	7.0	1.0000		-
DL/S5.2.0	FIRST	EQ	SB	7.254	1.402	-0.2	0.12	16.0	1.0000		-
DL/S5.3.0	FIRST	1	SB	7.003	0.529	-0.2	0.05	7.0	1.0000		-
DL/S5.3.0	FIRST	2	SB	7.122	0.954	-0.3	0.05	7.0	1.0000		-
DL/S5.3.0	FIRST	EQ	SB	7.258	1.419	-0.2	0.12	16.0	1.0000		-
DL/S5.4.0	FIRST	1	SB	7.003	0.531	-0.2	0.05	7.0	1.0000		-
DL/S5.4.0	FIRST	2	SB	7.123	0.957	-0.3	0.05	7.0	1.0000		-
DL/S5.4.0	FIRST	EQ	SB	7.260	1.424	-0.2	0.12	16.0	1.0000		-
DL/S5.5.0	FIRST	1	SB	7.006	0.539	-0.2	0.05	7.0	1.0000		-
DL/S5.5.0	FIRST	2	SB	7.128	0.974	-0.3	0.05	7.0	1.0000		-
DL/S5.5.0	FIRST	EQ	SB	7.268	1.450	-0.2	0.12	16.0	1.0000		-
DL/S6.1.0-1	FIRST	1	PS	6.937	0.248	0.0	0.05	7.0	1.0000		-
DL/S6.1.0-1	FIRST	2	PS	6.985	0.377	0.0	0.05	7.0	1.0000		-
DL/S6.1.0-1	FIRST	EQ	PS	7.036	0.510	0.0	0.12	16.0	1.0000		-
DL/S6.2.0	FIRST	1	SB	7.048	0.658	-0.3	0.05	7.0	1.0000		-
DL/S6.2.0	FIRST	2	SB	7.217	1.196	-0.5	0.05	7.0	1.0000		-
DL/S6.2.0	FIRST	EQ	SB	7.418	1.782	-0.2	0.12	16.0	1.0000		-
DL/S6.3.0	FIRST	1	SB	7.048	0.658	-0.3	0.05	7.0	1.0000		-
DL/S6.3.0	FIRST	2	SB	7.217	1.196	-0.5	0.05	7.0	1.0000		-
DL/S6.3.0	FIRST	EQ	SB	7.418	1.782	-0.2	0.12	16.0	1.0000		-
DL/S6.4.0	FIRST	1	SB	7.048	0.659	-0.3	0.05	7.0	1.0000		-
DL/S6.4.0	FIRST	2	SB	7.218	1.199	-0.6	0.05	7.0	1.0000		-
DL/S6.4.0	FIRST	EQ	SB	7.419	1.787	-0.3	0.12	16.0	1.0000		-
DL/S6.5.0	FIRST	1	SB	7.048	0.659	-0.3	0.05	7.0	1.0000		-
DL/S6.5.0	FIRST	2	SB	7.218	1.199	-0.6	0.05	7.0	1.0000		-
DL/S6.5.0	FIRST	EQ	SB	7.419	1.787	-0.3	0.12	16.0	1.0000		-
DL/S6.6.0	FIRST	1	SB	7.050	0.664	-0.3	0.05	7.0	1.0000		-
DL/S6.6.0	FIRST	2	SB	7.222	1.209	-0.6	0.05	7.0	1.0000		-
DL/S6.6.0	FIRST	EQ	SB	7.425	1.803	-0.3	0.12	16.0	1.0000		-
DL/S7.1.0-1	FIRST	1	PS	6.937	0.248	0.0	0.05	7.0	1.0000		-
DL/S7.1.0-1	FIRST	2	PS	6.985	0.377	0.0	0.05	7.0	1.0000		-
DL/S7.1.0-1	FIRST	EQ	PS	7.036	0.510	0.0	0.12	16.0	1.0000		-
DL/S7.2.0-1	FIRST	1	PS	6.937	0.248	0.0	0.05	7.0	1.0000		-
DL/S7.2.0-1	FIRST	2	PS	6.985	0.377	0.0	0.05	7.0	1.0000		-
DL/S7.2.0-1	FIRST	EQ	PS	7.041	0.519	0.0	0.12	16.0	1.0000		-
DL/S7.3.0-1	FIRST	1	PS	6.937	0.248	0.0	0.05	7.0	1.0000		-
DL/S7.3.0-1	FIRST	2	PS	6.985	0.377	0.0	0.05	7.0	1.0000		-
DL/S7.3.0-1	FIRST	EQ	PS	7.041	0.519	0.0	0.12	16.0	1.0000		-
DL/S7.4.0-1	FIRST	1	PS	6.937	0.248	0.0	0.05	7.0	1.0000		-
DL/S7.4.0-1	FIRST	2	PS	6.985	0.377	0.0	0.05	7.0	1.0000		-
DL/S7.4.0-1	FIRST	EQ	PS	7.041	0.519	0.0	0.12	16.0	1.0000		-
DL/S7.5.0-1	FIRST	1	PS	6.937	0.248	0.0	0.05	7.0	1.0000		-
DL/S7.5.0-1	FIRST	2	PS	6.985	0.377	0.0	0.05	7.0	1.0000		-
DL/S7.5.0-1	FIRST	EQ	PS	7.041	0.519	0.0	0.12	16.0	1.0000		-
DL/S7.6.0-1	FIRST	1	PS	6.937	0.248	0.0	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FACSOLCROSS	TM s
DL/S7.6.0-1	FIRST	2	PS	6.985	0.377	0.0	0.05	7.0	1.0000	-
DL/S7.6.0-1	FIRST	EQ	PS	7.041	0.519	0.0	0.12	16.0	1.0000	-
DL/S8.1.0-1	FIRST	1	PS	6.937	0.248	0.0	0.05	7.0	1.0000	-
DL/S8.1.0-1	FIRST	2	PS	6.985	0.377	0.0	0.05	7.0	1.0000	-
DL/S8.1.0-1	FIRST	EQ	PS	7.036	0.510	0.0	0.12	16.0	1.0000	-
DL/S8.2.0	FIRST	1	SB	7.073	0.480	-0.3	0.05	7.0	1.0000	-
DL/S8.2.0	FIRST	2	SB	7.267	0.850	-0.4	0.05	7.0	1.0000	-
DL/S8.2.0	FIRST	EQ	SB	7.493	1.254	-0.2	0.12	16.0	1.0000	-
DL/S8.3.0	FIRST	1	SB	7.073	0.480	-0.3	0.05	7.0	1.0000	-
DL/S8.3.0	FIRST	2	SB	7.267	0.850	-0.4	0.05	7.0	1.0000	-
DL/S8.3.0	FIRST	EQ	SB	7.493	1.254	-0.2	0.12	16.0	1.0000	-
DL/S8.4.0	FIRST	1	SB	7.074	0.481	-0.4	0.05	7.0	1.0000	-
DL/S8.4.0	FIRST	2	SB	7.268	0.852	-0.5	0.05	7.0	1.0000	-
DL/S8.4.0	FIRST	EQ	SB	7.495	1.257	-0.3	0.12	16.0	1.0000	-
DL/S8.5.0	FIRST	1	SB	7.074	0.481	-0.4	0.05	7.0	1.0000	-
DL/S8.5.0	FIRST	2	SB	7.268	0.852	-0.5	0.05	7.0	1.0000	-
DL/S8.5.0	FIRST	EQ	SB	7.495	1.257	-0.3	0.12	16.0	1.0000	-
DL/S8.6.0	FIRST	1	SB	7.078	0.488	-0.4	0.05	7.0	1.0000	-
DL/S8.6.0	FIRST	2	SB	7.278	0.868	-0.5	0.05	7.0	1.0000	-
DL/S8.6.0	FIRST	EQ	SB	7.509	1.280	-0.3	0.12	16.0	1.0000	-
DL/S9.1.0-1	FIRST	1	PS	6.994	0.306	0.0	0.05	7.0	1.0000	-
DL/S9.1.0-1	FIRST	2	PS	7.103	0.492	0.0	0.05	7.0	1.0000	-
DL/S9.1.0-1	FIRST	EQ	PS	7.224	0.692	0.0	0.12	16.0	1.0000	-
DL/S9.2.0	FIRST	1	SB	7.026	0.375	-0.2	0.05	7.0	1.0000	-
DL/S9.2.0	FIRST	2	SB	7.168	0.615	-0.2	0.05	7.0	1.0000	-
DL/S9.2.0	FIRST	EQ	SB	7.326	0.868	-0.2	0.12	16.0	1.0000	-
DL/S9.3.0	FIRST	1	SB	7.026	0.375	-0.2	0.05	7.0	1.0000	-
DL/S9.3.0	FIRST	2	SB	7.169	0.616	-0.2	0.05	7.0	1.0000	-
DL/S9.3.0	FIRST	EQ	SB	7.329	0.872	-0.2	0.12	16.0	1.0000	-
DL/S9.4.0	FIRST	1	SB	7.026	0.377	-0.3	0.05	7.0	1.0000	-
DL/S9.4.0	FIRST	2	SB	7.170	0.618	-0.3	0.05	7.0	1.0000	-
DL/S9.4.0	FIRST	EQ	SB	7.331	0.875	-0.2	0.12	16.0	1.0000	-
DL/S9.5.0	FIRST	1	SB	7.026	0.377	-0.3	0.05	7.0	1.0000	-
DL/S9.5.0	FIRST	2	SB	7.170	0.618	-0.3	0.05	7.0	1.0000	-
DL/S9.5.0	FIRST	EQ	SB	7.331	0.875	-0.2	0.12	16.0	1.0000	-
DL/S9.6.0	FIRST	1	SB	7.030	0.384	-0.3	0.05	7.0	1.0000	-
DL/S9.6.0	FIRST	2	SB	7.178	0.633	-0.3	0.05	7.0	1.0000	-
DL/S9.6.0	FIRST	EQ	SB	7.344	0.896	-0.2	0.12	16.0	1.0000	-
DL/S10.1.0-1	FIRST	1	PS	6.963	0.173	0.0	0.05	7.0	1.0000	-
DL/S10.1.0-1	FIRST	2	PS	7.039	0.225	0.0	0.05	7.0	1.0000	-
DL/S10.1.0-1	FIRST	EQ	PS	7.123	0.281	0.0	0.12	16.0	1.0000	-
DL/S10.2.0	FIRST	1	SB	6.994	0.190	-0.8	0.05	7.0	1.0000	-
DL/S10.2.0	FIRST	2	SB	7.100	0.258	-1.3	0.05	7.0	1.0000	-
DL/S10.2.0	FIRST	EQ	SB	7.220	0.331	-1.7	0.12	16.0	1.0000	-
DL/S10.3.0	FIRST	1	SB	7.002	0.194	-0.9	0.05	7.0	1.0000	-
DL/S10.3.0	FIRST	2	SB	7.116	0.264	-1.5	0.05	7.0	1.0000	-
DL/S10.3.0	FIRST	EQ	SB	7.244	0.339	-2.1	0.12	16.0	1.0000	-
DL/S10.4.0	FIRST	1	SB	7.008	0.195	-0.8	0.05	7.0	1.0000	-
DL/S10.4.0	FIRST	2	SB	7.128	0.269	-1.5	0.05	7.0	1.0000	-
DL/S10.4.0	FIRST	EQ	SB	7.262	0.346	-2.0	0.12	16.0	1.0000	-
DL/S11.1.0-1	FIRST	1	PS	7.031	0.050	0.0	0.05	7.0	1.0000	-
DL/S11.1.0-1	FIRST	2	PS	7.177	-0.020	0.0	0.05	7.0	1.0000	-
DL/S11.1.0-1	FIRST	EQ	PS	7.348	-0.106	0.0	0.12	16.0	1.0000	-
DL/S11.2.0	FIRST	1	SB	7.037	0.038	-2.4	0.05	7.0	1.0000	-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DL/S11.2.0	FIRST	2	SB	7.204	-0.040	-2.3	0.05	7.0	1.0000		-
DL/S11.2.0	FIRST	EQ	SB	7.397	-0.135	-2.0	0.05	7.0	1.0000		-
DL/S11.2.0	CROSS	1	SB	7.425	-0.141	-0.9	0.05	7.0	1.0000		415
DL/S11.2.0	CROSS	2	SB	7.425	-0.141	-0.9	0.05	7.0	1.0000		415
DL/S11.2.0	CROSS	EQ	SB	7.425	-0.141	-0.9	0.12	16.0	1.0000		415
DL/S11.3.0	FIRST	1	SB	7.046	0.033	-2.3	0.05	7.0	1.0000		-
DL/S11.3.0	FIRST	2	SB	7.220	-0.050	-2.3	0.05	7.0	1.0000		-
DL/S11.3.0	FIRST	EQ	SB	7.424	-0.149	-2.0	0.05	7.0	1.0000		-
DL/S11.3.0	CROSS	1	SB	7.452	-0.155	-0.8	0.05	7.0	1.0000		414
DL/S11.3.0	CROSS	2	SB	7.452	-0.155	-0.8	0.05	7.0	1.0000		414
DL/S11.3.0	CROSS	EQ	SB	7.452	-0.155	-0.8	0.12	16.0	1.0000		414
DL/S12.1.0-1	FIRST	1	PS	6.979	-0.030	0.0	0.05	7.0	1.0000		-
DL/S12.1.0-1	FIRST	2	PS	7.070	-0.178	0.0	0.05	7.0	1.0000		-
DL/S12.1.0-1	FIRST	EQ	PS	7.180	-0.358	0.0	0.12	16.0	1.0000		-
DL/S12.2.0	FIRST	1	SB	7.031	-0.119	-1.6	0.05	7.0	1.0000		-
DL/S12.2.0	FIRST	2	SB	7.169	-0.362	-3.0	0.05	7.0	1.0000		-
DL/S12.2.0	FIRST	EQ	SB	7.338	-0.651	-3.9	0.12	15.4	0.9912		-
DL/S12.3.0	FIRST	1	SB	7.039	-0.129	-1.4	0.05	7.0	1.0000		-
DL/S12.3.0	FIRST	2	SB	7.186	-0.384	-2.9	0.05	7.0	1.0000		-
DL/S12.3.0	FIRST	EQ	SB	7.365	-0.687	-3.8	0.12	15.4	0.9908		-
DL/S13.1.0-1	FIRST	1	SB	6.898	0.098	-0.4	0.05	7.0	1.0000		-
DL/S13.1.0-1	FIRST	2	SB	6.906	0.076	-0.8	0.05	7.0	1.0000		-
DL/S13.1.0-1	FIRST	EQ	SB	6.919	0.035	-1.6	0.12	16.0	1.0000		-
DL/S13.2.0-1	FIRST	1	SB	6.955	-0.052	-0.5	0.05	7.0	1.0000		-
DL/S13.2.0-1	FIRST	2	SB	7.022	-0.229	-0.9	0.05	7.0	1.0000		-
DL/S13.2.0-1	FIRST	EQ	SB	7.101	-0.442	-1.8	0.12	16.0	1.0000		-
DL/S13.3.0	FIRST	1	SB	7.008	-0.180	-0.7	0.05	7.0	1.0000		-
DL/S13.3.0	FIRST	2	SB	7.125	-0.490	-2.0	0.05	7.0	1.0000		-
DL/S13.3.0	FIRST	EQ	SB	7.262	-0.885	-3.7	0.12	15.7	0.9957		-
DL/S14.1.0	FIRST	1	SB	6.986	-0.196	-0.6	0.05	7.0	1.0000		-
DL/S14.1.0	FIRST	2	SB	7.085	-0.529	-1.4	0.05	7.0	1.0000		-
DL/S14.1.0	FIRST	EQ	SB	7.209	-0.957	-2.3	0.05	7.0	1.0000		-
DL/S14.1.0	CROSS	1	SB	7.250	-1.067	-1.4	0.05	7.0	1.0000		1395
DL/S14.1.0	CROSS	2	PS	7.299	-1.208	0.0	0.05	7.0	1.0000		1395
DL/S14.1.0	CROSS	EQ	PS	7.299	-1.208	0.0	0.12	16.0	1.0000		1395
DL/S14.2.0	FIRST	1	SB	7.007	-0.265	-0.4	0.05	7.0	1.0000		-
DL/S14.2.0	FIRST	2	SB	7.131	-0.678	-1.3	0.05	7.0	1.0000		-
DL/S14.2.0	FIRST	EQ	SB	7.285	-1.199	-2.2	0.05	7.0	1.0000		-
DL/S14.2.0	CROSS	1	SB	7.326	-1.311	-1.3	0.05	7.0	1.0000		1378
DL/S14.2.0	CROSS	2	PS	7.373	-1.448	0.0	0.05	7.0	1.0000		1378
DL/S14.2.0	CROSS	EQ	PS	7.373	-1.448	0.0	0.12	16.0	1.0000		1378
DL/S15.1.0	FIRST	1	PS	7.008	-0.357	0.0	0.05	7.0	1.0000		-
DL/S15.1.0	FIRST	2	PS	7.137	-0.881	0.0	0.05	7.0	1.0000		-
DL/S15.1.0	FIRST	EQ	PS	7.320	-1.626	0.0	0.12	16.0	1.0000		-
DL/S15.2.0	FIRST	1	PS	7.031	-0.451	0.0	0.05	7.0	1.0000		-
DL/S15.2.0	FIRST	2	PS	7.186	-1.078	0.0	0.05	7.0	1.0000		-
DL/S15.2.0	FIRST	EQ	PS	7.404	-1.965	0.0	0.12	16.0	1.0000		-
DL/S16.1.0-1	FIRST	1	PS	6.971	-0.267	0.0	0.05	7.0	1.0000		-
DL/S16.1.0-1	FIRST	2	PS	7.058	-0.687	0.0	0.05	7.0	1.0000		-
DL/S16.1.0-1	FIRST	EQ	PS	7.179	-1.276	0.0	0.12	16.0	1.0000		-
DL/S16.2.0-1	FIRST	1	PS	6.971	-0.267	0.0	0.05	7.0	1.0000		-
DL/S16.2.0-1	FIRST	2	PS	7.058	-0.687	0.0	0.05	7.0	1.0000		-
DL/S16.2.0-1	FIRST	EQ	PS	7.179	-1.276	0.0	0.12	16.0	1.0000		-
DL/S17.1.0-1	FIRST	1	PS	6.922	-0.050	0.0	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FACSOLCROSS	TM s
DL/S17.1.0-1	FIRST	2	PS	6.955	-0.233	0.0	0.05	7.0	1.0000	-
DL/S17.1.0-1	FIRST	EQ	PS	6.996	-0.453	0.0	0.12	16.0	1.0000	-
DL/S18.1.0-1	FIRST	1	PS	6.912	-0.013	0.0	0.05	7.0	1.0000	-
DL/S18.1.0-1	FIRST	2	PS	6.934	-0.149	0.0	0.05	7.0	1.0000	-
DL/S18.1.0-1	FIRST	EQ	PS	6.958	-0.290	0.0	0.12	16.0	1.0000	-
DL/S1-2.1.0-1	FIRST	1	PS	6.912	0.322	0.0	0.05	7.0	1.0000	-
DL/S1-2.1.0-1	FIRST	2	PS	6.936	0.557	0.0	0.05	7.0	1.0000	-
DL/S1-2.1.0-1	FIRST	EQ	PS	6.971	0.908	0.0	0.12	16.0	1.0000	-
DL/S1-2.2.0-1	FIRST	1	PS	6.912	0.322	0.0	0.05	7.0	1.0000	-
DL/S1-2.2.0-1	FIRST	2	PS	6.936	0.557	0.0	0.05	7.0	1.0000	-
DL/S1-2.2.0-1	FIRST	EQ	PS	6.971	0.908	0.0	0.12	16.0	1.0000	-
DL/S2-3.1.0-1	FIRST	1	SB	6.943	0.560	-0.7	0.05	7.0	1.0000	-
DL/S2-3.1.0-1	FIRST	2	SB	7.003	1.094	-1.6	0.05	7.0	1.0000	-
DL/S2-3.1.0-1	FIRST	EQ	SB	7.097	2.001	-3.5	0.05	7.0	1.0000	-
DL/S2-3.1.0-1	INT1	1	SB	7.097	2.001	-3.5	0.05	7.0	1.0000	-
DL/S2-3.1.0-1	INT1	2	SB	7.097	2.001	-3.5	0.05	7.0	1.0000	-
DL/S2-3.1.0-1	INT1	EQ	SB	7.097	2.001	-3.5	0.05	7.0	1.0000	-
DL/S2-3.1.0-1	INT2	1	SB	7.097	2.001	-3.5	0.05	7.0	1.0000	-
DL/S2-3.1.0-1	INT2	2	SB	7.097	2.001	-3.5	0.05	7.0	1.0000	-
DL/S2-3.1.0-1	INT2	EQ	SB	7.097	2.001	-3.5	0.12	14.2	0.9707	-
DL/S2-3.2.0	FIRST	1	SB	6.948	0.594	-0.7	0.05	7.0	1.0000	-
DL/S2-3.2.0	FIRST	2	SB	7.014	1.171	-1.6	0.05	7.0	1.0000	-
DL/S2-3.2.0	FIRST	EQ	SB	7.118	2.144	-3.4	0.05	7.0	1.0000	-
DL/S2-3.2.0	INT1	1	SB	7.118	2.144	-3.4	0.05	7.0	1.0000	-
DL/S2-3.2.0	INT1	2	SB	7.118	2.144	-3.4	0.05	7.0	1.0000	-
DL/S2-3.2.0	INT1	EQ	SB	7.118	2.144	-3.4	0.05	7.0	1.0000	-
DL/S2-3.2.0	INT2	1	SB	7.118	2.144	-3.4	0.05	7.0	1.0000	-
DL/S2-3.2.0	INT2	2	SB	7.118	2.144	-3.4	0.05	7.0	1.0000	-
DL/S2-3.2.0	INT2	EQ	SB	7.118	2.144	-3.4	0.12	14.1	0.9682	-
DL/S2-3.3.0	FIRST	1	SB	6.962	0.703	-0.9	0.05	7.0	1.0000	-
DL/S2-3.3.0	FIRST	2	SB	7.042	1.407	-2.2	0.05	7.0	1.0000	-
DL/S2-3.3.0	FIRST	EQ	SB	7.164	2.574	-4.3	0.05	7.0	1.0000	-
DL/S2-3.3.0	INT2	1	SB	7.164	2.575	-4.3	0.05	7.0	1.0000	-
DL/S2-3.3.0	INT2	2	SB	7.164	2.575	-4.3	0.05	7.0	1.0000	-
DL/S2-3.3.0	INT2	EQ	SB	7.164	2.574	-4.3	0.12	12.4	0.9376	-
DL/S3-4.1.0	FIRST	1	SB	6.968	0.574	-0.8	0.05	7.0	1.0000	-
DL/S3-4.1.0	FIRST	2	SB	7.044	1.095	-2.5	0.05	7.0	1.0000	-
DL/S3-4.1.0	FIRST	EQ	SB	7.151	1.788	-3.1	0.05	7.0	1.0000	-
DL/S3-4.1.0	INT1	1	SB	7.151	1.788	-3.1	0.05	7.0	1.0000	-
DL/S3-4.1.0	INT1	2	SB	7.151	1.788	-3.1	0.05	7.0	1.0000	-
DL/S3-4.1.0	INT1	EQ	SB	7.151	1.788	-3.1	0.05	7.0	1.0000	-
DL/S3-4.1.0	INT2	1	SB	7.151	1.788	-3.1	0.05	7.0	1.0000	-
DL/S3-4.1.0	INT2	2	SB	7.151	1.788	-3.1	0.05	7.0	1.0000	-
DL/S3-4.1.0	INT2	EQ	SB	7.151	1.788	-3.1	0.12	14.6	0.9766	-
DL/S3-4.2.0	FIRST	1	SB	6.973	0.621	-0.8	0.05	7.0	1.0000	-
DL/S3-4.2.0	FIRST	2	SB	7.054	1.173	-2.5	0.05	7.0	1.0000	-
DL/S3-4.2.0	FIRST	EQ	SB	7.169	1.903	-3.0	0.05	7.0	1.0000	-
DL/S3-4.2.0	INT1	1	SB	7.169	1.903	-3.0	0.05	7.0	1.0000	-
DL/S3-4.2.0	INT1	2	SB	7.169	1.903	-3.0	0.05	7.0	1.0000	-
DL/S3-4.2.0	INT1	EQ	SB	7.169	1.903	-3.0	0.05	7.0	1.0000	-
DL/S3-4.2.0	INT2	1	SB	7.169	1.903	-3.0	0.05	7.0	1.0000	-
DL/S3-4.2.0	INT2	2	SB	7.169	1.903	-3.0	0.05	7.0	1.0000	-
DL/S3-4.2.0	INT2	EQ	SB	7.169	1.903	-3.0	0.12	14.3	0.9731	-
DL/S3-4.3.0	FIRST	1	SB	6.992	0.737	-1.5	0.05	7.0	1.0000	-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DL/S3-4.3.0	FIRST	2	SB	7.080	1.408	-4.2	0.05	7.0	1.0000		-
DL/S3-4.3.0	FIRST	EQ	SB	7.221	2.355	-5.4	0.05	7.0	1.0000		-
DL/S3-4.3.0	INT1	1	SB	7.221	2.355	-5.4	0.05	7.0	1.0000		-
DL/S3-4.3.0	INT1	2	SB	7.221	2.355	-5.4	0.05	7.0	1.0000		-
DL/S3-4.3.0	INT1	EQ	SB	7.221	2.355	-5.4	0.05	7.0	1.0000		-
DL/S3-4.3.0	INT2	1	SB	7.221	2.355	-5.4	0.05	7.0	1.0000		-
DL/S3-4.3.0	INT2	2	SB	7.221	2.355	-5.4	0.05	7.0	1.0000		-
DL/S3-4.3.0	INT2	EQ	SB	7.221	2.355	-5.4	0.12	10.7	0.9042		-
DL/S4-5.1.0	FIRST	1	PS	7.047	0.742	0.0	0.05	7.0	1.0000		-
DL/S4-5.1.0	FIRST	2	SB	7.211	1.393	-0.6	0.05	7.0	1.0000		-
DL/S4-5.1.0	FIRST	EQ	SB	7.402	2.091	-0.7	0.12	16.0	1.0000		-
DL/S4-5.2.0	FIRST	1	SB	7.070	0.854	-0.8	0.05	7.0	1.0000		-
DL/S4-5.2.0	FIRST	2	SB	7.249	1.635	-2.8	0.05	7.0	1.0000		-
DL/S4-5.2.0	FIRST	EQ	SB	7.484	2.527	-2.9	0.12	12.9	0.9468		-
DL/S4-5.3.0	FIRST	1	SB	7.070	0.854	-0.8	0.05	7.0	1.0000		-
DL/S4-5.3.0	FIRST	2	SB	7.250	1.641	-2.8	0.05	7.0	1.0000		-
DL/S4-5.3.0	FIRST	EQ	SB	7.493	2.559	-3.0	0.12	12.8	0.9450		-
DL/S4-5.4.0	FIRST	1	SB	7.072	0.869	-1.0	0.05	7.0	1.0000		-
DL/S4-5.4.0	FIRST	2	SB	7.255	1.672	-3.0	0.05	7.0	1.0000		-
DL/S4-5.4.0	FIRST	EQ	SB	7.511	2.641	-3.1	0.12	12.4	0.9385		-
DL/S4-5.5.0	FIRST	1	SB	7.072	0.870	-1.0	0.05	7.0	1.0000		-
DL/S4-5.5.0	FIRST	2	SB	7.256	1.674	-3.1	0.05	7.0	1.0000		-
DL/S4-5.5.0	FIRST	EQ	SB	7.512	2.645	-3.1	0.12	12.4	0.9377		-
DL/S4-5.6.0	FIRST	1	SB	7.075	0.876	-1.0	0.05	7.0	1.0000		-
DL/S4-5.6.0	FIRST	2	SB	7.261	1.689	-3.0	0.05	7.0	1.0000		-
DL/S4-5.6.0	FIRST	EQ	SB	7.520	2.671	-3.1	0.12	12.3	0.9366		-
DL/S4-5.7.0	FIRST	1	SB	7.079	0.899	-0.9	0.05	7.0	1.0000		-
DL/S4-5.7.0	FIRST	2	SB	7.269	1.727	-3.0	0.05	7.0	1.0000		-
DL/S4-5.7.0	FIRST	EQ	SB	7.533	2.724	-3.1	0.12	12.2	0.9343		-
DL/S5-6.1.0	FIRST	1	PS	7.047	0.653	0.0	0.05	7.0	1.0000		-
DL/S5-6.1.0	FIRST	2	PS	7.215	1.187	0.0	0.05	7.0	1.0000		-
DL/S5-6.1.0	FIRST	EQ	PS	7.413	1.769	0.0	0.12	16.0	1.0000		-
DL/S5-6.2.0	FIRST	1	SB	7.049	0.662	-0.3	0.05	7.0	1.0000		-
DL/S5-6.2.0	FIRST	2	SB	7.219	1.203	-0.5	0.05	7.0	1.0000		-
DL/S5-6.2.0	FIRST	EQ	SB	7.420	1.792	-0.2	0.12	16.0	1.0000		-
DL/S5-6.3.0	FIRST	1	SB	7.049	0.662	-0.3	0.05	7.0	1.0000		-
DL/S5-6.3.0	FIRST	2	SB	7.220	1.206	-0.5	0.05	7.0	1.0000		-
DL/S5-6.3.0	FIRST	EQ	SB	7.427	1.816	-0.2	0.12	16.0	1.0000		-
DL/S5-6.4.0	FIRST	1	SB	7.049	0.664	-0.3	0.05	7.0	1.0000		-
DL/S5-6.4.0	FIRST	2	SB	7.221	1.209	-0.6	0.05	7.0	1.0000		-
DL/S5-6.4.0	FIRST	EQ	SB	7.428	1.820	-0.3	0.12	16.0	1.0000		-
DL/S5-6.5.0	FIRST	1	SB	7.052	0.675	-0.3	0.05	7.0	1.0000		-
DL/S5-6.5.0	FIRST	2	SB	7.228	1.231	-0.6	0.05	7.0	1.0000		-
DL/S5-6.5.0	FIRST	EQ	SB	7.439	1.851	-0.3	0.12	16.0	1.0000		-
DL/S6-7.1.0-1	FIRST	1	PS	6.937	0.248	0.0	0.05	7.0	1.0000		-
DL/S6-7.1.0-1	FIRST	2	PS	6.985	0.377	0.0	0.05	7.0	1.0000		-
DL/S6-7.1.0-1	FIRST	EQ	PS	7.036	0.510	0.0	0.12	16.0	1.0000		-
DL/S6-7.2.0	FIRST	1	SB	7.083	0.640	-0.2	0.05	7.0	1.0000		-
DL/S6-7.2.0	FIRST	2	SB	7.285	1.272	-0.9	0.05	7.0	1.0000		-
DL/S6-7.2.0	FIRST	EQ	SB	7.549	1.986	-0.3	0.12	14.7	0.9783		-
DL/S6-7.3.0	FIRST	1	SB	7.083	0.640	-0.2	0.05	7.0	1.0000		-
DL/S6-7.3.0	FIRST	2	SB	7.285	1.272	-0.9	0.05	7.0	1.0000		-
DL/S6-7.3.0	FIRST	EQ	SB	7.549	1.986	-0.3	0.12	14.7	0.9783		-
DL/S6-7.4.0	FIRST	1	SB	7.083	0.642	-0.3	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DL/S6-7.4.0	FIRST	2	SB	7.286	1.275	-0.9	0.05	7.0	1.0000		-
DL/S6-7.4.0	FIRST	EQ	SB	7.550	1.991	-0.4	0.12	14.6	0.9770		-
DL/S6-7.5.0	FIRST	1	SB	7.085	0.647	-0.3	0.05	7.0	1.0000		-
DL/S6-7.5.0	FIRST	2	SB	7.290	1.285	-0.9	0.05	7.0	1.0000		-
DL/S6-7.5.0	FIRST	EQ	SB	7.557	2.007	-0.4	0.12	14.5	0.9752		-
DL/S7-8.1.0-1	FIRST	1	PS	6.937	0.248	0.0	0.05	7.0	1.0000		-
DL/S7-8.1.0-1	FIRST	2	PS	6.985	0.377	0.0	0.05	7.0	1.0000		-
DL/S7-8.1.0-1	FIRST	EQ	PS	7.036	0.510	0.0	0.12	16.0	1.0000		-
DL/S7-8.2.0	FIRST	1	SB	7.073	0.480	-0.3	0.05	7.0	1.0000		-
DL/S7-8.2.0	FIRST	2	SB	7.267	0.850	-0.4	0.05	7.0	1.0000		-
DL/S7-8.2.0	FIRST	EQ	SB	7.493	1.254	-0.2	0.12	16.0	1.0000		-
DL/S7-8.3.0	FIRST	1	SB	7.073	0.480	-0.3	0.05	7.0	1.0000		-
DL/S7-8.3.0	FIRST	2	SB	7.267	0.850	-0.4	0.05	7.0	1.0000		-
DL/S7-8.3.0	FIRST	EQ	SB	7.493	1.254	-0.2	0.12	16.0	1.0000		-
DL/S7-8.4.0	FIRST	1	SB	7.074	0.481	-0.4	0.05	7.0	1.0000		-
DL/S7-8.4.0	FIRST	2	SB	7.268	0.852	-0.5	0.05	7.0	1.0000		-
DL/S7-8.4.0	FIRST	EQ	SB	7.495	1.257	-0.3	0.12	16.0	1.0000		-
DL/S7-8.5.0	FIRST	1	SB	7.074	0.481	-0.4	0.05	7.0	1.0000		-
DL/S7-8.5.0	FIRST	2	SB	7.268	0.852	-0.5	0.05	7.0	1.0000		-
DL/S7-8.5.0	FIRST	EQ	SB	7.495	1.257	-0.3	0.12	16.0	1.0000		-
DL/S7-8.6.0	FIRST	1	SB	7.078	0.488	-0.4	0.05	7.0	1.0000		-
DL/S7-8.6.0	FIRST	2	SB	7.278	0.868	-0.5	0.05	7.0	1.0000		-
DL/S7-8.6.0	FIRST	EQ	SB	7.509	1.280	-0.3	0.12	16.0	1.0000		-
DL/S8-9.1.0-1	FIRST	1	PS	7.041	0.428	0.0	0.05	7.0	1.0000		-
DL/S8-9.1.0-1	FIRST	2	PS	7.202	0.740	0.0	0.05	7.0	1.0000		-
DL/S8-9.1.0-1	FIRST	EQ	PS	7.389	1.085	0.0	0.12	16.0	1.0000		-
DL/S8-9.2.0	FIRST	1	SB	7.073	0.480	-0.3	0.05	7.0	1.0000		-
DL/S8-9.2.0	FIRST	2	SB	7.267	0.850	-0.4	0.05	7.0	1.0000		-
DL/S8-9.2.0	FIRST	EQ	SB	7.493	1.254	-0.2	0.12	16.0	1.0000		-
DL/S8-9.3.0	FIRST	1	SB	7.073	0.480	-0.3	0.05	7.0	1.0000		-
DL/S8-9.3.0	FIRST	2	SB	7.268	0.852	-0.4	0.05	7.0	1.0000		-
DL/S8-9.3.0	FIRST	EQ	SB	7.498	1.260	-0.2	0.12	16.0	1.0000		-
DL/S8-9.4.0	FIRST	1	SB	7.074	0.481	-0.4	0.05	7.0	1.0000		-
DL/S8-9.4.0	FIRST	2	SB	7.269	0.854	-0.5	0.05	7.0	1.0000		-
DL/S8-9.4.0	FIRST	EQ	SB	7.500	1.263	-0.3	0.12	16.0	1.0000		-
DL/S8-9.5.0	FIRST	1	SB	7.074	0.481	-0.4	0.05	7.0	1.0000		-
DL/S8-9.5.0	FIRST	2	SB	7.269	0.854	-0.5	0.05	7.0	1.0000		-
DL/S8-9.5.0	FIRST	EQ	SB	7.500	1.263	-0.3	0.12	16.0	1.0000		-
DL/S8-9.6.0	FIRST	1	SB	7.078	0.488	-0.4	0.05	7.0	1.0000		-
DL/S8-9.6.0	FIRST	2	SB	7.278	0.869	-0.5	0.05	7.0	1.0000		-
DL/S8-9.6.0	FIRST	EQ	SB	7.514	1.286	-0.3	0.12	16.0	1.0000		-
DL/S9-10.1.0	FIRST	1	PS	7.112	0.437	0.0	0.05	7.0	1.0000		-
DL/S9-10.1.0	FIRST	2	PS	7.353	0.725	0.5	0.05	7.0	1.0000		-
DL/S9-10.1.0	FIRST	EQ	PS	7.652	1.039	0.0	0.12	16.0	1.0000		-
DL/S9-10.2.0	FIRST	1	SB	7.126	0.442	-1.4	0.05	7.0	1.0000		-
DL/S9-10.2.0	FIRST	2	SB	7.377	0.733	-2.6	0.05	7.0	1.0000		-
DL/S9-10.2.0	FIRST	EQ	SB	7.702	1.060	-2.0	0.12	15.8	0.9962		-
DL/S9-10.3.0	FIRST	1	SB	7.126	0.442	-1.4	0.05	7.0	1.0000		-
DL/S9-10.3.0	FIRST	2	SB	7.378	0.734	-2.6	0.05	7.0	1.0000		-
DL/S9-10.3.0	FIRST	EQ	SB	7.708	1.070	-2.0	0.12	15.7	0.9957		-
DL/S9-10.4.0	FIRST	1	SB	7.134	0.448	-1.5	0.05	7.0	1.0000		-
DL/S9-10.4.0	FIRST	2	SB	7.393	0.739	-2.9	0.05	7.0	1.0000		-
DL/S9-10.4.0	FIRST	EQ	SB	7.733	1.076	-2.3	0.12	15.3	0.9881		-
DL/S9-10.5.0	FIRST	1	SB	7.134	0.449	-1.5	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DL/S9-10.5.0	FIRST	2	SB	7.393	0.741	-2.9	0.05	7.0	1.0000		-
DL/S9-10.5.0	FIRST	EQ	SB	7.735	1.079	-2.3	0.12	15.2	0.9874		-
DL/S9-10.6.0	FIRST	1	SB	7.140	0.443	-1.4	0.05	7.0	1.0000		-
DL/S9-10.6.0	FIRST	2	SB	7.406	0.742	-2.9	0.05	7.0	1.0000		-
DL/S9-10.6.0	FIRST	EQ	SB	7.754	1.085	-2.3	0.12	15.2	0.9868		-
DL/S9-10.7.0	FIRST	1	SB	7.145	0.456	-1.4	0.05	7.0	1.0000		-
DL/S9-10.7.0	FIRST	2	SB	7.414	0.757	-2.9	0.05	7.0	1.0000		-
DL/S9-10.7.0	FIRST	EQ	SB	7.768	1.105	-2.3	0.12	15.1	0.9862		-
DL/S10-11.1..	FIRST	1	PS	7.104	0.102	0.0	0.05	7.0	1.0000		-
DL/S10-11.1..	FIRST	2	PS	7.332	0.080	1.0	0.05	7.0	1.0000		-
DL/S10-11.1..	FIRST	EQ	PS	7.634	0.048	0.0	0.12	16.0	1.0000		-
DL/S10-11.2.0	FIRST	1	SB	7.102	0.109	-5.2	0.05	7.0	1.0000		-
DL/S10-11.2.0	FIRST	2	SB	7.361	0.079	-6.4	0.05	7.0	1.0000		-
DL/S10-11.2.0	FIRST	EQ	SB	7.756	0.051	-4.9	0.05	7.0	1.0000		-
DL/S10-11.2.0	CROSS	1	SB	7.803	0.049	-3.4	0.05	7.0	1.0000		423
DL/S10-11.2.0	CROSS	2	SB	7.803	0.049	-3.4	0.05	7.0	1.0000		423
DL/S10-11.2.0	CROSS	EQ	SB	7.803	0.049	-3.4	0.12	14.6	0.9772		423
DL/S10-11.3.0	FIRST	1	SB	7.108	0.110	-5.3	0.05	7.0	1.0000		-
DL/S10-11.3.0	FIRST	2	SB	7.370	0.082	-6.7	0.05	7.0	1.0000		-
DL/S10-11.3.0	FIRST	EQ	SB	7.777	0.056	-5.3	0.05	7.0	1.0000		-
DL/S10-11.3.0	CROSS	1	SB	7.826	0.054	-3.8	0.05	7.0	1.0000		426
DL/S10-11.3.0	CROSS	2	SB	7.826	0.054	-3.8	0.05	7.0	1.0000		426
DL/S10-11.3.0	CROSS	EQ	SB	7.826	0.054	-3.8	0.12	14.1	0.9683		426
DL/S10-11.4.0	FIRST	1	SB	7.131	0.109	-4.8	0.05	7.0	1.0000		-
DL/S10-11.4.0	FIRST	2	SB	7.404	0.079	-6.4	0.05	7.0	1.0000		-
DL/S10-11.4.0	FIRST	EQ	SB	7.829	0.050	-5.0	0.05	7.0	1.0000		-
DL/S10-11.4.0	CROSS	1	SB	7.875	0.047	-3.6	0.05	7.0	1.0000		422
DL/S10-11.4.0	CROSS	2	SB	7.875	0.047	-3.6	0.05	7.0	1.0000		422
DL/S10-11.4.0	CROSS	EQ	SB	7.875	0.047	-3.6	0.12	14.1	0.9687		422
DL/S11-12.1.0	FIRST	1	SB	7.123	-0.130	-2.7	0.05	7.0	1.0000		-
DL/S11-12.1.0	FIRST	2	SB	7.372	-0.388	-4.2	0.05	7.0	1.0000		-
DL/S11-12.1.0	FIRST	EQ	SB	7.765	-0.729	-2.3	0.05	7.0	1.0000		-
DL/S11-12.1.0	CROSS	1	PS	7.799	-0.737	0.0	0.05	7.0	1.0000		400
DL/S11-12.1.0	CROSS	2	PS	7.799	-0.737	0.0	0.05	7.0	1.0000		400
DL/S11-12.1.0	CROSS	EQ	PS	7.799	-0.737	0.0	0.12	16.0	1.0000		400
DL/S11-12.2.0	FIRST	1	SB	7.119	-0.223	-6.3	0.05	7.0	1.0000		-
DL/S11-12.2.0	FIRST	2	SB	7.359	-0.579	-9.3	0.05	7.0	1.0000		-
DL/S11-12.2.0	FIRST	EQ	SB	7.841	-0.985	-8.2	0.05	7.0	1.0000		-
DL/S11-12.2.0	CROSS	1	SB	7.914	-0.985	-6.4	0.05	7.0	1.0000		449
DL/S11-12.2.0	CROSS	2	SB	7.914	-0.985	-6.4	0.05	7.0	1.0000		449
DL/S11-12.2.0	CROSS	EQ	SB	7.914	-0.985	-6.4	0.12	10.5	0.9006		449
DL/S11-12.3.0	FIRST	1	SB	7.151	-0.232	-5.5	0.05	7.0	1.0000		-
DL/S11-12.3.0	FIRST	2	SB	7.400	-0.608	-9.1	0.05	7.0	1.0000		-
DL/S11-12.3.0	FIRST	EQ	SB	7.912	-1.032	-7.7	0.05	7.0	1.0000		-
DL/S11-12.3.0	CROSS	1	SB	7.979	-1.033	-6.0	0.05	7.0	1.0000		442
DL/S11-12.3.0	CROSS	2	SB	7.979	-1.033	-6.0	0.05	7.0	1.0000		442
DL/S11-12.3.0	CROSS	EQ	SB	7.979	-1.033	-6.0	0.12	10.7	0.9048		442
DL/S12-13.1..	FIRST	1	SB	6.987	-0.051	-0.6	0.05	7.0	1.0000		-
DL/S12-13.1..	FIRST	2	SB	7.085	-0.224	-1.3	0.05	7.0	1.0000		-
DL/S12-13.1..	FIRST	EQ	SB	7.224	-0.542	-3.9	0.12	15.7	0.9953		-
DL/S12-13.2..	FIRST	1	SB	7.043	-0.198	-0.7	0.05	7.0	1.0000		-
DL/S12-13.2..	FIRST	2	SB	7.202	-0.537	-2.0	0.05	7.0	1.0000		-
DL/S12-13.2..	FIRST	EQ	SB	7.425	-1.035	-4.0	0.12	15.0	0.9843		-
DL/S12-13.3..	FIRST	1	SB	7.090	-0.325	-3.1	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DL/S12-13.3..	FIRST	2	SB	7.262	-0.816	-6.7	0.05	7.0	1.0000		-
DL/S12-13.3..	FIRST	EQ	SB	7.516	-1.536	-10.1	0.12	8.1	0.6622		-
DL/S12-13.4..	FIRST	1	SB	7.090	-0.325	-3.1	0.05	7.0	1.0000		-
DL/S12-13.4..	FIRST	2	SB	7.262	-0.816	-6.7	0.05	7.0	1.0000		-
DL/S12-13.4..	FIRST	EQ	SB	7.516	-1.536	-10.1	0.12	8.1	0.6622		-
DL/S13-14.1..	FIRST	1	SB	6.992	-0.218	-1.1	0.05	7.0	1.0000		-
DL/S13-14.1..	FIRST	2	SB	7.095	-0.579	-2.6	0.05	7.0	1.0000		-
DL/S13-14.1..	FIRST	EQ	SB	7.236	-1.226	-6.5	0.05	7.0	1.0000		-
DL/S13-14.1..	CROSS	1	SB	7.293	-1.321	-5.4	0.05	7.0	1.0000		1484
DL/S13-14.1..	CROSS	2	SB	7.361	-1.432	-3.5	0.05	7.0	1.0000		1484
DL/S13-14.1..	CROSS	EQ	SB	7.361	-1.432	-3.5	0.12	14.2	0.9714		1484
DL/S13-14.2.0	FIRST	1	SB	7.072	-0.414	-1.2	0.05	7.0	1.0000		-
DL/S13-14.2.0	FIRST	2	SB	7.257	-1.044	-3.7	0.05	7.0	1.0000		-
DL/S13-14.2.0	FIRST	EQ	SB	7.536	-1.956	-6.0	0.05	7.0	1.0000		-
DL/S13-14.2.0	CROSS	1	SB	7.600	-2.070	-4.8	0.05	7.0	1.0000		1396
DL/S13-14.2.0	CROSS	2	SB	7.669	-2.193	-2.9	0.05	7.0	1.0000		1396
DL/S13-14.2.0	CROSS	EQ	SB	7.669	-2.193	-2.9	0.12	13.5	0.9580		1396
DL/S13-14.3..	FIRST	1	SB	7.064	-0.453	-2.9	0.05	7.0	1.0000		-
DL/S13-14.3..	FIRST	2	SB	7.233	-1.074	-5.6	0.05	7.0	1.0000		-
DL/S13-14.3..	FIRST	EQ	SB	7.483	-2.024	-8.7	0.05	7.0	1.0000		-
DL/S13-14.3..	CROSS	1	SB	7.558	-2.133	-7.5	0.05	7.0	1.0000		1486
DL/S13-14.3..	CROSS	2	SB	7.637	-2.244	-5.9	0.05	7.0	1.0000		1486
DL/S13-14.3..	CROSS	EQ	SB	7.637	-2.244	-5.9	0.12	10.4	0.8975		1486
DL/S13-14.4..	FIRST	1	SB	7.091	-0.534	-2.5	0.05	7.0	1.0000		-
DL/S13-14.4..	FIRST	2	SB	7.289	-1.239	-5.1	0.05	7.0	1.0000		-
DL/S13-14.4..	FIRST	EQ	SB	7.574	-2.261	-8.3	0.05	7.0	1.0000		-
DL/S13-14.4..	CROSS	1	SB	7.647	-2.375	-7.2	0.05	7.0	1.0000		1454
DL/S13-14.4..	CROSS	2	SB	7.722	-2.484	-5.6	0.05	7.0	1.0000		1454
DL/S13-14.4..	CROSS	EQ	SB	7.722	-2.484	-5.6	0.12	10.2	0.8932		1454
DL/S14-15.1.0	FIRST	1	SB	7.101	-0.666	-0.9	0.05	7.0	1.0000		-
DL/S14-15.1.0	FIRST	2	SB	7.338	-1.580	-2.5	0.05	7.0	1.0000		-
DL/S14-15.1.0	FIRST	EQ	SB	7.771	-3.233	-3.6	0.05	7.0	1.0000		-
DL/S14-15.1.0	CROSS	1	SB	7.836	-3.385	-1.9	0.05	7.0	1.0000		1277
DL/S14-15.1.0	CROSS	2	PS	7.887	-3.524	0.0	0.05	7.0	1.0000		1277
DL/S14-15.1.0	CROSS	EQ	PS	7.887	-3.524	0.0	0.12	16.0	1.0000		1277
DL/S14-15.2.0	FIRST	1	SB	7.125	-0.763	-0.7	0.05	7.0	1.0000		-
DL/S14-15.2.0	FIRST	2	SB	7.390	-1.781	-2.2	0.05	7.0	1.0000		-
DL/S14-15.2.0	FIRST	EQ	SB	7.869	-3.597	-3.4	0.05	7.0	1.0000		-
DL/S14-15.2.0	CROSS	1	SB	7.932	-3.752	-1.7	0.05	7.0	1.0000		1259
DL/S14-15.2.0	CROSS	2	PS	7.979	-3.886	0.0	0.05	7.0	1.0000		1259
DL/S14-15.2.0	CROSS	EQ	PS	7.979	-3.886	0.0	0.12	16.0	1.0000		1259
DL/S15-16.1.0	FIRST	1	PS	7.094	-0.758	0.0	0.05	7.0	1.0000		-
DL/S15-16.1.0	FIRST	2	PS	7.336	-1.811	0.0	0.05	7.0	1.0000		-
DL/S15-16.1.0	FIRST	EQ	PS	7.827	-4.062	0.0	0.12	14.1	0.9696		-
DL/S15-16.2.0	FIRST	1	PS	7.094	-0.758	0.0	0.05	7.0	1.0000		-
DL/S15-16.2.0	FIRST	2	PS	7.336	-1.811	0.0	0.05	7.0	1.0000		-
DL/S15-16.2.0	FIRST	EQ	PS	7.827	-4.062	0.0	0.12	14.1	0.9696		-
DL/S16-17.1..	FIRST	1	PS	7.012	-0.494	0.0	0.05	7.0	1.0000		-
DL/S16-17.1..	FIRST	2	PS	7.152	-1.207	0.0	0.05	7.0	1.0000		-
DL/S16-17.1..	FIRST	EQ	PS	7.398	-2.489	0.0	0.12	16.0	1.0000		-
DL/S16-17.2..	FIRST	1	PS	7.012	-0.494	0.0	0.05	7.0	1.0000		-
DL/S16-17.2..	FIRST	2	PS	7.152	-1.207	0.0	0.05	7.0	1.0000		-
DL/S16-17.2..	FIRST	EQ	PS	7.398	-2.489	0.0	0.12	16.0	1.0000		-
DL/S17-18.1..	FIRST	1	PS	6.944	-0.197	0.0	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FACSOL	CROSSTM s
DL/S17-18.1..	FIRST	2	PS	7.001	-0.519	0.0	0.05	7.0	1.0000	-
DL/S17-18.1..	FIRST	EQ	PS	7.073	-0.929	0.0	0.12	16.0	1.0000	-
DL/S1-3.1.0-1	FIRST	1	SB	6.943	0.561	-0.7	0.05	7.0	1.0000	-
DL/S1-3.1.0-1	FIRST	2	SB	7.004	1.105	-1.6	0.05	7.0	1.0000	-
DL/S1-3.1.0-1	FIRST	EQ	SB	7.113	2.254	-4.1	0.05	7.0	1.0000	-
DL/S1-3.1.0-1	INT1	1	SB	7.113	2.254	-4.1	0.05	7.0	1.0000	-
DL/S1-3.1.0-1	INT1	2	SB	7.113	2.254	-4.1	0.05	7.0	1.0000	-
DL/S1-3.1.0-1	INT1	EQ	SB	7.113	2.254	-4.1	0.05	7.0	1.0000	-
DL/S1-3.1.0-1	INT2	1	SB	7.113	2.255	-4.1	0.05	7.0	1.0000	-
DL/S1-3.1.0-1	INT2	2	SB	7.113	2.255	-4.1	0.05	7.0	1.0000	-
DL/S1-3.1.0-1	INT2	EQ	SB	7.113	2.254	-4.1	0.12	12.7	0.9446	-
DL/S1-3.2.0-1	FIRST	1	SB	6.943	0.561	-0.7	0.05	7.0	1.0000	-
DL/S1-3.2.0-1	FIRST	2	SB	7.004	1.105	-1.6	0.05	7.0	1.0000	-
DL/S1-3.2.0-1	FIRST	EQ	SB	7.113	2.254	-4.1	0.05	7.0	1.0000	-
DL/S1-3.2.0-1	INT1	1	SB	7.113	2.254	-4.1	0.05	7.0	1.0000	-
DL/S1-3.2.0-1	INT1	2	SB	7.113	2.254	-4.1	0.05	7.0	1.0000	-
DL/S1-3.2.0-1	INT1	EQ	SB	7.113	2.254	-4.1	0.05	7.0	1.0000	-
DL/S1-3.2.0-1	INT2	1	SB	7.113	2.255	-4.1	0.05	7.0	1.0000	-
DL/S1-3.2.0-1	INT2	2	SB	7.113	2.255	-4.1	0.05	7.0	1.0000	-
DL/S1-3.2.0-1	INT2	EQ	SB	7.113	2.254	-4.1	0.12	12.7	0.9446	-
DL/S1-3.3.0	FIRST	1	SB	6.948	0.595	-0.7	0.05	7.0	1.0000	-
DL/S1-3.3.0	FIRST	2	SB	7.015	1.182	-1.6	0.05	7.0	1.0000	-
DL/S1-3.3.0	FIRST	EQ	SB	7.136	2.428	-4.1	0.05	7.0	1.0000	-
DL/S1-3.3.0	INT1	1	SB	7.136	2.428	-4.1	0.05	7.0	1.0000	-
DL/S1-3.3.0	INT1	2	SB	7.136	2.428	-4.1	0.05	7.0	1.0000	-
DL/S1-3.3.0	INT1	EQ	SB	7.136	2.428	-4.1	0.05	7.0	1.0000	-
DL/S1-3.3.0	INT2	1	SB	7.136	2.429	-4.1	0.05	7.0	1.0000	-
DL/S1-3.3.0	INT2	2	SB	7.136	2.429	-4.1	0.05	7.0	1.0000	-
DL/S1-3.3.0	INT2	EQ	SB	7.136	2.428	-4.1	0.12	12.5	0.9401	-
DL/S1-3.4.0	FIRST	1	SB	6.963	0.704	-0.9	0.05	7.0	1.0000	-
DL/S1-3.4.0	FIRST	2	SB	7.044	1.420	-2.3	0.05	7.0	1.0000	-
DL/S1-3.4.0	FIRST	EQ	SB	7.185	2.983	-5.3	0.05	7.0	1.0000	-
DL/S1-3.4.0	INT2	1	SB	7.185	2.977	-5.3	0.05	7.0	1.0000	-
DL/S1-3.4.0	INT2	2	SB	7.185	2.977	-5.3	0.05	7.0	1.0000	-
DL/S1-3.4.0	INT2	EQ	SB	7.185	2.983	-5.3	0.12	10.4	0.8976	-
DL/S4-6.1.0	FIRST	1	PS	7.092	0.873	0.0	0.05	7.0	1.0000	-
DL/S4-6.1.0	FIRST	2	SB	7.307	1.641	-1.4	0.05	7.0	1.0000	-
DL/S4-6.1.0	FIRST	EQ	SB	7.576	2.484	-1.1	0.12	14.5	0.9763	-
DL/S5-7.1.0	FIRST	1	PS	7.081	0.635	0.0	0.05	7.0	1.0000	-
DL/S5-7.1.0	FIRST	2	PS	7.279	1.255	0.0	0.05	7.0	1.0000	-
DL/S5-7.1.0	FIRST	EQ	PS	7.510	1.923	0.0	0.12	16.0	1.0000	-
DL/S5-7.2.0	FIRST	1	SB	7.083	0.645	-0.2	0.05	7.0	1.0000	-
DL/S5-7.2.0	FIRST	2	SB	7.287	1.279	-0.9	0.05	7.0	1.0000	-
DL/S5-7.2.0	FIRST	EQ	SB	7.551	1.996	-0.3	0.12	16.0	1.0000	-
DL/S5-7.3.0	FIRST	1	SB	7.083	0.645	-0.2	0.05	7.0	1.0000	-
DL/S5-7.3.0	FIRST	2	SB	7.288	1.283	-0.9	0.05	7.0	1.0000	-
DL/S5-7.3.0	FIRST	EQ	SB	7.560	2.025	-0.3	0.12	16.0	1.0000	-
DL/S5-7.4.0	FIRST	1	SB	7.084	0.646	-0.3	0.05	7.0	1.0000	-
DL/S5-7.4.0	FIRST	2	SB	7.289	1.286	-0.9	0.05	7.0	1.0000	-
DL/S5-7.4.0	FIRST	EQ	SB	7.562	2.029	-0.4	0.12	16.0	1.0000	-
DL/S5-7.5.0	FIRST	1	SB	7.087	0.658	-0.3	0.05	7.0	1.0000	-
DL/S5-7.5.0	FIRST	2	SB	7.296	1.307	-0.9	0.05	7.0	1.0000	-
DL/S5-7.5.0	FIRST	EQ	SB	7.573	2.060	-0.4	0.12	16.0	1.0000	-
DL/S6-8.1.0-1	FIRST	1	PS	6.937	0.248	0.0	0.05	7.0	1.0000	-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FACSOL	CROSSTM s
DL/S6-8.1.0-1	FIRST	2	PS	6.985	0.377	0.0	0.05	7.0	1.0000	-
DL/S6-8.1.0-1	FIRST	EQ	PS	7.036	0.510	0.0	0.12	16.0	1.0000	-
DL/S6-8.2.0	FIRST	1	SB	7.182	0.865	-0.9	0.05	7.0	1.0000	-
DL/S6-8.2.0	FIRST	2	SB	7.498	1.628	-2.3	0.05	7.0	1.0000	-
DL/S6-8.2.0	FIRST	EQ	SB	7.927	2.526	-0.5	0.12	9.5	0.8783	-
DL/S6-8.3.0	FIRST	1	SB	7.182	0.865	-0.9	0.05	7.0	1.0000	-
DL/S6-8.3.0	FIRST	2	SB	7.498	1.628	-2.3	0.05	7.0	1.0000	-
DL/S6-8.3.0	FIRST	EQ	SB	7.927	2.526	-0.5	0.12	9.5	0.8783	-
DL/S6-8.4.0	FIRST	1	SB	7.183	0.868	-1.0	0.05	7.0	1.0000	-
DL/S6-8.4.0	FIRST	2	SB	7.499	1.632	-2.4	0.05	7.0	1.0000	-
DL/S6-8.4.0	FIRST	EQ	SB	7.930	2.534	-0.6	0.12	9.4	0.8753	-
DL/S6-8.5.0	FIRST	1	SB	7.184	0.875	-1.0	0.05	7.0	1.0000	-
DL/S6-8.5.0	FIRST	2	SB	7.503	1.643	-2.4	0.05	7.0	1.0000	-
DL/S6-8.5.0	FIRST	EQ	SB	7.937	2.550	-0.6	0.12	9.3	0.8731	-
DL/S6-8.6.0	FIRST	1	SB	7.189	0.877	-1.0	0.05	7.0	1.0000	-
DL/S6-8.6.0	FIRST	2	SB	7.513	1.654	-2.3	0.05	7.0	1.0000	-
DL/S6-8.6.0	FIRST	EQ	SB	7.952	2.573	-0.6	0.12	9.1	0.8687	-
DL/S7-9.1.0-1	FIRST	1	PS	7.041	0.428	0.0	0.05	7.0	1.0000	-
DL/S7-9.1.0-1	FIRST	2	PS	7.202	0.740	0.0	0.05	7.0	1.0000	-
DL/S7-9.1.0-1	FIRST	EQ	PS	7.389	1.085	0.0	0.12	16.0	1.0000	-
DL/S7-9.2.0	FIRST	1	SB	7.073	0.480	-0.3	0.05	7.0	1.0000	-
DL/S7-9.2.0	FIRST	2	SB	7.267	0.850	-0.4	0.05	7.0	1.0000	-
DL/S7-9.2.0	FIRST	EQ	SB	7.493	1.254	-0.2	0.12	16.0	1.0000	-
DL/S7-9.3.0	FIRST	1	SB	7.073	0.480	-0.3	0.05	7.0	1.0000	-
DL/S7-9.3.0	FIRST	2	SB	7.268	0.852	-0.4	0.05	7.0	1.0000	-
DL/S7-9.3.0	FIRST	EQ	SB	7.498	1.260	-0.2	0.12	16.0	1.0000	-
DL/S7-9.4.0	FIRST	1	SB	7.074	0.481	-0.4	0.05	7.0	1.0000	-
DL/S7-9.4.0	FIRST	2	SB	7.269	0.854	-0.5	0.05	7.0	1.0000	-
DL/S7-9.4.0	FIRST	EQ	SB	7.500	1.263	-0.3	0.12	16.0	1.0000	-
DL/S7-9.5.0	FIRST	1	SB	7.074	0.481	-0.4	0.05	7.0	1.0000	-
DL/S7-9.5.0	FIRST	2	SB	7.269	0.854	-0.5	0.05	7.0	1.0000	-
DL/S7-9.5.0	FIRST	EQ	SB	7.500	1.263	-0.3	0.12	16.0	1.0000	-
DL/S7-9.6.0	FIRST	1	SB	7.078	0.488	-0.4	0.05	7.0	1.0000	-
DL/S7-9.6.0	FIRST	2	SB	7.278	0.869	-0.5	0.05	7.0	1.0000	-
DL/S7-9.6.0	FIRST	EQ	SB	7.514	1.286	-0.3	0.12	16.0	1.0000	-
DL/S8-10.1.0	FIRST	1	PS	7.160	0.532	0.0	0.05	7.0	1.0000	-
DL/S8-10.1.0	FIRST	2	PS	7.452	0.948	1.5	0.05	7.0	1.0000	-
DL/S8-10.1.0	FIRST	EQ	PS	7.840	1.421	0.0	0.12	16.0	1.0000	-
DL/S8-10.2.0	FIRST	1	SB	7.165	0.528	-2.5	0.05	7.0	1.0000	-
DL/S8-10.2.0	FIRST	2	SB	7.457	0.944	-4.4	0.05	7.0	1.0000	-
DL/S8-10.2.0	FIRST	EQ	SB	7.887	1.442	-2.5	0.12	14.8	0.9806	-
DL/S8-10.3.0	FIRST	1	SB	7.165	0.528	-2.5	0.05	7.0	1.0000	-
DL/S8-10.3.0	FIRST	2	SB	7.459	0.946	-4.3	0.05	7.0	1.0000	-
DL/S8-10.3.0	FIRST	EQ	SB	7.896	1.451	-2.5	0.12	14.8	0.9799	-
DL/S8-10.4.0	FIRST	1	SB	7.172	0.533	-2.7	0.05	7.0	1.0000	-
DL/S8-10.4.0	FIRST	2	SB	7.469	0.949	-4.7	0.05	7.0	1.0000	-
DL/S8-10.4.0	FIRST	EQ	SB	7.919	1.462	-3.0	0.12	14.2	0.9705	-
DL/S8-10.5.0	FIRST	1	SB	7.172	0.534	-2.8	0.05	7.0	1.0000	-
DL/S8-10.5.0	FIRST	2	SB	7.470	0.951	-4.8	0.05	7.0	1.0000	-
DL/S8-10.5.0	FIRST	EQ	SB	7.921	1.465	-3.0	0.12	14.1	0.9697	-
DL/S8-10.6.0	FIRST	1	SB	7.179	0.526	-2.6	0.05	7.0	1.0000	-
DL/S8-10.6.0	FIRST	2	SB	7.483	0.950	-4.7	0.05	7.0	1.0000	-
DL/S8-10.6.0	FIRST	EQ	SB	7.941	1.471	-3.0	0.12	14.1	0.9695	-
DL/S8-10.7.0	FIRST	1	SB	7.185	0.538	-2.5	0.05	7.0	1.0000	-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DL/S8-10.7.0	FIRST	2	SB	7.494	0.967	-4.6	0.05	7.0	1.0000		-
DL/S8-10.7.0	FIRST	EQ	SB	7.957	1.493	-2.9	0.12	14.1	0.9694		-
DL/S9-11.1.0	FIRST	1	SB	7.219	0.405	-4.4	0.05	7.0	1.0000		-
DL/S9-11.1.0	FIRST	2	SB	7.581	0.556	-7.0	0.05	7.0	1.0000		-
DL/S9-11.1.0	FIRST	EQ	SB	8.254	0.756	-1.7	0.05	7.0	1.0000		-
DL/S9-11.1.0	CROSS	1	PS	8.283	0.746	0.0	0.05	7.0	1.0000		384
DL/S9-11.1.0	CROSS	2	PS	8.283	0.746	0.0	0.05	7.0	1.0000		384
DL/S9-11.1.0	CROSS	EQ	PS	8.283	0.746	0.0	0.12	15.7	0.9948		384
DL/S9-11.2.0	FIRST	1	SB	7.174	0.343	-7.7	0.05	7.0	1.0000		-
DL/S9-11.2.0	FIRST	2	SB	7.545	0.530	-10.0	0.05	7.0	1.0000		-
DL/S9-11.2.0	FIRST	EQ	SB	8.309	0.761	-5.2	0.05	7.0	1.0000		-
DL/S9-11.2.0	CROSS	1	SB	8.360	0.751	-3.6	0.05	7.0	1.0000		406
DL/S9-11.2.0	CROSS	2	SB	8.360	0.751	-3.6	0.05	7.0	1.0000		406
DL/S9-11.2.0	CROSS	EQ	SB	8.360	0.751	-3.6	0.12	11.8	0.9261		406
DL/S9-11.3.0	FIRST	1	SB	7.174	0.343	-7.7	0.05	7.0	1.0000		-
DL/S9-11.3.0	FIRST	2	SB	7.548	0.531	-10.0	0.05	7.0	1.0000		-
DL/S9-11.3.0	FIRST	EQ	SB	8.321	0.772	-5.3	0.05	7.0	1.0000		-
DL/S9-11.3.0	CROSS	1	SB	8.372	0.762	-3.6	0.05	7.0	1.0000		406
DL/S9-11.3.0	CROSS	2	SB	8.372	0.762	-3.6	0.05	7.0	1.0000		406
DL/S9-11.3.0	CROSS	EQ	SB	8.372	0.762	-3.6	0.12	11.7	0.9250		406
DL/S9-11.4.0	FIRST	1	SB	7.179	0.345	-7.9	0.05	7.0	1.0000		-
DL/S9-11.4.0	FIRST	2	SB	7.557	0.534	-10.2	0.05	7.0	1.0000		-
DL/S9-11.4.0	FIRST	EQ	SB	8.343	0.779	-5.6	0.05	7.0	1.0000		-
DL/S9-11.4.0	CROSS	1	SB	8.396	0.768	-4.0	0.05	7.0	1.0000		408
DL/S9-11.4.0	CROSS	2	SB	8.396	0.768	-4.0	0.05	7.0	1.0000		408
DL/S9-11.4.0	CROSS	EQ	SB	8.396	0.768	-4.0	0.12	11.2	0.9142		408
DL/S9-11.5.0	FIRST	1	SB	7.179	0.347	-7.9	0.05	7.0	1.0000		-
DL/S9-11.5.0	FIRST	2	SB	7.557	0.537	-10.2	0.05	7.0	1.0000		-
DL/S9-11.5.0	FIRST	EQ	SB	8.344	0.782	-5.7	0.05	7.0	1.0000		-
DL/S9-11.5.0	CROSS	1	SB	8.397	0.771	-4.1	0.05	7.0	1.0000		409
DL/S9-11.5.0	CROSS	2	SB	8.397	0.771	-4.1	0.05	7.0	1.0000		409
DL/S9-11.5.0	CROSS	EQ	SB	8.397	0.771	-4.1	0.12	11.1	0.9132		409
DL/S9-11.6.0	FIRST	1	SB	7.212	0.335	-7.2	0.05	7.0	1.0000		-
DL/S9-11.6.0	FIRST	2	SB	7.592	0.525	-10.1	0.05	7.0	1.0000		-
DL/S9-11.6.0	FIRST	EQ	SB	8.400	0.774	-5.4	0.05	7.0	1.0000		-
DL/S9-11.6.0	CROSS	1	SB	8.450	0.763	-3.9	0.05	7.0	1.0000		405
DL/S9-11.6.0	CROSS	2	SB	8.450	0.763	-3.9	0.05	7.0	1.0000		405
DL/S9-11.6.0	CROSS	EQ	SB	8.450	0.763	-3.9	0.12	11.2	0.9140		405
DL/S9-11.7.0	FIRST	1	SB	7.222	0.354	-7.0	0.05	7.0	1.0000		-
DL/S9-11.7.0	FIRST	2	SB	7.602	0.544	-10.0	0.05	7.0	1.0000		-
DL/S9-11.7.0	FIRST	EQ	SB	8.417	0.792	-5.3	0.05	7.0	1.0000		-
DL/S9-11.7.0	CROSS	1	SB	8.466	0.781	-3.8	0.05	7.0	1.0000		404
DL/S9-11.7.0	CROSS	2	SB	8.466	0.781	-3.8	0.05	7.0	1.0000		404
DL/S9-11.7.0	CROSS	EQ	SB	8.466	0.781	-3.8	0.12	11.2	0.9139		404
DL/S10-12.1.0	FIRST	1	SB	7.149	-0.066	-6.4	0.05	7.0	1.0000		-
DL/S10-12.1.0	FIRST	2	SB	7.442	-0.296	-9.2	0.05	7.0	1.0000		-
DL/S10-12.1.0	FIRST	EQ	SB	8.138	-0.583	-4.4	0.05	7.0	1.0000		-
DL/S10-12.1.0	CROSS	1	PS	8.203	-0.587	0.0	0.05	7.0	1.0000		394
DL/S10-12.1.0	CROSS	2	PS	8.203	-0.587	0.0	0.05	7.0	1.0000		394
DL/S10-12.1.0	CROSS	EQ	PS	8.203	-0.587	0.0	0.12	16.0	1.0000		394
DL/S11-13.1..	FIRST	1	SB	7.123	-0.111	-1.4	0.05	7.0	1.0000		-
DL/S11-13.1..	FIRST	2	SB	7.344	-0.404	-5.1	0.05	7.0	1.0000		-
DL/S11-13.1..	FIRST	EQ	SB	7.639	-1.046	-10.9	0.08	7.0	0.5234		-
DL/S11-13.2..	FIRST	1	SB	7.175	-0.262	-2.1	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DL/S11-13.2..	FIRST	2	SB	7.413	-0.727	-7.4	0.05	7.0	1.0000		-
DL/S11-13.2..	FIRST	EQ	SB	7.891	-1.472	-9.7	0.09	7.7	0.6300		-
DL/S16-18.1..	FIRST	1	PS	7.034	-0.641	0.0	0.05	7.0	1.0000		-
DL/S16-18.1..	FIRST	2	PS	7.201	-1.520	0.0	0.05	7.0	1.0000		-
DL/S16-18.1..	FIRST	EQ	PS	7.508	-3.173	0.0	0.12	16.0	1.0000		-
DL/S16-18.2..	FIRST	1	PS	7.034	-0.641	0.0	0.05	7.0	1.0000		-
DL/S16-18.2..	FIRST	2	PS	7.201	-1.520	0.0	0.05	7.0	1.0000		-
DL/S16-18.2..	FIRST	EQ	PS	7.508	-3.173	0.0	0.12	16.0	1.0000		-
DL/S4-7.1.0	FIRST	1	PS	7.128	0.838	0.0	0.05	7.0	1.0000		-
DL/S4-7.1.0	FIRST	2	SB	7.371	1.693	-1.2	0.05	7.0	1.0000		-
DL/S4-7.1.0	FIRST	EQ	SB	7.674	2.637	-1.1	0.12	13.9	0.9654		-
DL/S5-8.1.0	FIRST	1	PS	7.081	0.635	0.0	0.05	7.0	1.0000		-
DL/S5-8.1.0	FIRST	2	PS	7.279	1.255	0.0	0.05	7.0	1.0000		-
DL/S5-8.1.0	FIRST	EQ	PS	7.510	1.923	0.0	0.12	16.0	1.0000		-
DL/S5-8.2.0	FIRST	1	SB	7.183	0.871	-0.9	0.05	7.0	1.0000		-
DL/S5-8.2.0	FIRST	2	SB	7.500	1.635	-2.3	0.05	7.0	1.0000		-
DL/S5-8.2.0	FIRST	EQ	SB	7.929	2.536	-0.5	0.12	14.4	0.9736		-
DL/S5-8.3.0	FIRST	1	SB	7.183	0.871	-0.9	0.05	7.0	1.0000		-
DL/S5-8.3.0	FIRST	2	SB	7.502	1.640	-2.2	0.05	7.0	1.0000		-
DL/S5-8.3.0	FIRST	EQ	SB	7.942	2.578	-0.5	0.12	14.3	0.9720		-
DL/S5-8.4.0	FIRST	1	SB	7.183	0.873	-1.0	0.05	7.0	1.0000		-
DL/S5-8.4.0	FIRST	2	SB	7.503	1.644	-2.4	0.05	7.0	1.0000		-
DL/S5-8.4.0	FIRST	EQ	SB	7.946	2.586	-0.6	0.12	14.2	0.9704		-
DL/S5-8.5.0	FIRST	1	SB	7.186	0.888	-1.0	0.05	7.0	1.0000		-
DL/S5-8.5.0	FIRST	2	SB	7.510	1.666	-2.3	0.05	7.0	1.0000		-
DL/S5-8.5.0	FIRST	EQ	SB	7.957	2.616	-0.6	0.12	14.1	0.9691		-
DL/S5-8.6.0	FIRST	1	SB	7.191	0.890	-1.0	0.05	7.0	1.0000		-
DL/S5-8.6.0	FIRST	2	SB	7.520	1.677	-2.3	0.05	7.0	1.0000		-
DL/S5-8.6.0	FIRST	EQ	SB	7.973	2.640	-0.6	0.12	14.0	0.9678		-
DL/S6-9.1.0-1	FIRST	1	PS	7.041	0.428	0.0	0.05	7.0	1.0000		-
DL/S6-9.1.0-1	FIRST	2	PS	7.202	0.740	0.0	0.05	7.0	1.0000		-
DL/S6-9.1.0-1	FIRST	EQ	PS	7.389	1.085	0.0	0.12	16.0	1.0000		-
DL/S6-9.2.0	FIRST	1	SB	7.182	0.865	-0.9	0.05	7.0	1.0000		-
DL/S6-9.2.0	FIRST	2	SB	7.498	1.628	-2.3	0.05	7.0	1.0000		-
DL/S6-9.2.0	FIRST	EQ	SB	7.927	2.526	-0.5	0.12	9.5	0.8783		-
DL/S6-9.3.0	FIRST	1	SB	7.182	0.865	-0.9	0.05	7.0	1.0000		-
DL/S6-9.3.0	FIRST	2	SB	7.500	1.631	-2.3	0.05	7.0	1.0000		-
DL/S6-9.3.0	FIRST	EQ	SB	7.937	2.537	-0.5	0.12	9.4	0.8756		-
DL/S6-9.4.0	FIRST	1	SB	7.183	0.868	-1.0	0.05	7.0	1.0000		-
DL/S6-9.4.0	FIRST	2	SB	7.501	1.635	-2.4	0.05	7.0	1.0000		-
DL/S6-9.4.0	FIRST	EQ	SB	7.940	2.545	-0.6	0.12	9.3	0.8726		-
DL/S6-9.5.0	FIRST	1	SB	7.184	0.875	-1.0	0.05	7.0	1.0000		-
DL/S6-9.5.0	FIRST	2	SB	7.505	1.646	-2.4	0.05	7.0	1.0000		-
DL/S6-9.5.0	FIRST	EQ	SB	7.947	2.561	-0.6	0.12	9.2	0.8704		-
DL/S6-9.6.0	FIRST	1	SB	7.189	0.877	-1.0	0.05	7.0	1.0000		-
DL/S6-9.6.0	FIRST	2	SB	7.514	1.658	-2.3	0.05	7.0	1.0000		-
DL/S6-9.6.0	FIRST	EQ	SB	7.962	2.584	-0.6	0.12	9.0	0.8659		-
DL/S7-10.1.0	FIRST	1	PS	7.160	0.532	0.0	0.05	7.0	1.0000		-
DL/S7-10.1.0	FIRST	2	PS	7.452	0.948	1.5	0.05	7.0	1.0000		-
DL/S7-10.1.0	FIRST	EQ	PS	7.840	1.421	0.0	0.12	16.0	1.0000		-
DL/S7-10.2.0	FIRST	1	SB	7.165	0.528	-2.5	0.05	7.0	1.0000		-
DL/S7-10.2.0	FIRST	2	SB	7.457	0.944	-4.4	0.05	7.0	1.0000		-
DL/S7-10.2.0	FIRST	EQ	SB	7.887	1.442	-2.5	0.12	14.8	0.9806		-
DL/S7-10.3.0	FIRST	1	SB	7.165	0.528	-2.5	0.05	7.0	1.0000		-

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FAC	SOLCROSS	TM s
DL/S7-10.3.0	FIRST	2	SB	7.459	0.946	-4.3	0.05	7.0	1.0000		-
DL/S7-10.3.0	FIRST	EQ	SB	7.896	1.451	-2.5	0.12	14.8	0.9799		-
DL/S7-10.4.0	FIRST	1	SB	7.172	0.533	-2.7	0.05	7.0	1.0000		-
DL/S7-10.4.0	FIRST	2	SB	7.469	0.949	-4.7	0.05	7.0	1.0000		-
DL/S7-10.4.0	FIRST	EQ	SB	7.919	1.462	-3.0	0.12	14.2	0.9705		-
DL/S7-10.5.0	FIRST	1	SB	7.172	0.534	-2.8	0.05	7.0	1.0000		-
DL/S7-10.5.0	FIRST	2	SB	7.470	0.951	-4.8	0.05	7.0	1.0000		-
DL/S7-10.5.0	FIRST	EQ	SB	7.921	1.465	-3.0	0.12	14.1	0.9697		-
DL/S7-10.6.0	FIRST	1	SB	7.179	0.526	-2.6	0.05	7.0	1.0000		-
DL/S7-10.6.0	FIRST	2	SB	7.483	0.950	-4.7	0.05	7.0	1.0000		-
DL/S7-10.6.0	FIRST	EQ	SB	7.941	1.471	-3.0	0.12	14.1	0.9695		-
DL/S7-10.7.0	FIRST	1	SB	7.185	0.538	-2.5	0.05	7.0	1.0000		-
DL/S7-10.7.0	FIRST	2	SB	7.494	0.967	-4.6	0.05	7.0	1.0000		-
DL/S7-10.7.0	FIRST	EQ	SB	7.957	1.493	-2.9	0.12	14.1	0.9694		-
DL/S8-11.1.0	FIRST	1	SB	7.148	0.443	-9.1	0.05	7.0	1.0000		-
DL/S8-11.1.0	FIRST	2	SB	7.561	0.755	-10.8	0.05	7.0	1.0000		-
DL/S8-11.1.0	FIRST	EQ	SB	8.469	1.147	-2.6	0.05	7.0	1.0000		-
DL/S8-11.1.0	CROSS	1	PS	8.506	1.135	0.0	0.05	7.0	1.0000		380
DL/S8-11.1.0	CROSS	2	PS	8.506	1.135	0.0	0.05	7.0	1.0000		380
DL/S8-11.1.0	CROSS	EQ	PS	8.506	1.135	0.0	0.12	14.7	0.9790		380
DL/S9-12.1.0	FIRST	1	SB	7.152	0.162	-10.4	0.05	7.0	1.0000		-
DL/S9-12.1.0	FIRST	2	SB	7.628	0.181	-12.1	0.05	5.5	0.9402		-
DL/S9-12.1.0	FIRST	EQ	SB	8.776	0.073	-3.9	0.05	7.0	1.0000		-
DL/S9-12.1.0	CROSS	1	PS	8.833	0.056	0.0	0.05	7.0	1.0000		375
DL/S9-12.1.0	CROSS	2	PS	8.833	0.056	0.0	0.05	7.0	1.0000		375
DL/S9-12.1.0	CROSS	EQ	PS	8.833	0.056	0.0	0.10	14.1	0.9256		375
DL/S4-8.1.0	FIRST	1	PS	7.128	0.838	0.0	0.05	7.0	1.0000		-
DL/S4-8.1.0	FIRST	2	SB	7.371	1.693	-1.2	0.05	7.0	1.0000		-
DL/S4-8.1.0	FIRST	EQ	SB	7.674	2.637	-1.1	0.12	13.8	0.9631		-
DL/S5-9.1.0	FIRST	1	PS	7.180	0.859	0.0	0.05	7.0	1.0000		-
DL/S5-9.1.0	FIRST	2	PS	7.498	1.617	1.3	0.05	7.0	1.0000		-
DL/S5-9.1.0	FIRST	EQ	SB	7.917	2.504	-0.0	0.12	14.9	0.9828		-
DL/S5-9.2.0	FIRST	1	SB	7.183	0.871	-0.9	0.05	7.0	1.0000		-
DL/S5-9.2.0	FIRST	2	SB	7.500	1.635	-2.3	0.05	7.0	1.0000		-
DL/S5-9.2.0	FIRST	EQ	SB	7.929	2.536	-0.5	0.12	14.4	0.9736		-
DL/S5-9.3.0	FIRST	1	SB	7.183	0.871	-0.9	0.05	7.0	1.0000		-
DL/S5-9.3.0	FIRST	2	SB	7.503	1.643	-2.2	0.05	7.0	1.0000		-
DL/S5-9.3.0	FIRST	EQ	SB	7.953	2.589	-0.5	0.12	14.2	0.9712		-
DL/S5-9.4.0	FIRST	1	SB	7.183	0.873	-1.0	0.05	7.0	1.0000		-
DL/S5-9.4.0	FIRST	2	SB	7.505	1.647	-2.4	0.05	7.0	1.0000		-
DL/S5-9.4.0	FIRST	EQ	SB	7.956	2.597	-0.6	0.12	14.1	0.9695		-
DL/S5-9.5.0	FIRST	1	SB	7.186	0.888	-1.0	0.05	7.0	1.0000		-
DL/S5-9.5.0	FIRST	2	SB	7.511	1.669	-2.3	0.05	7.0	1.0000		-
DL/S5-9.5.0	FIRST	EQ	SB	7.968	2.628	-0.6	0.12	14.1	0.9682		-
DL/S5-9.6.0	FIRST	1	SB	7.191	0.890	-1.0	0.05	7.0	1.0000		-
DL/S5-9.6.0	FIRST	2	SB	7.521	1.681	-2.3	0.05	7.0	1.0000		-
DL/S5-9.6.0	FIRST	EQ	SB	7.983	2.651	-0.6	0.12	14.0	0.9669		-
DL/S6-10.1.0	FIRST	1	PS	7.175	0.665	0.0	0.05	7.0	1.0000		-
DL/S6-10.1.0	FIRST	2	PS	7.492	1.103	1.5	0.05	7.0	1.0000		-
DL/S6-10.1.0	FIRST	EQ	PS	7.907	1.596	0.0	0.12	16.0	1.0000		-
DL/S7-11.1.0	FIRST	1	SB	7.148	0.443	-9.1	0.05	7.0	1.0000		-
DL/S7-11.1.0	FIRST	2	SB	7.561	0.755	-10.8	0.05	7.0	1.0000		-
DL/S7-11.1.0	FIRST	EQ	SB	8.469	1.147	-2.6	0.05	7.0	1.0000		-
DL/S7-11.1.0	CROSS	1	PS	8.506	1.135	0.0	0.05	7.0	1.0000		380

CASE	STAGE	PHASE	SIDE	T m	TR m	HEEL degree	GZMAX m	RANGE degree	FACSOL	CROSSTM s
DL/S7-11.1.0	CROSS	2	PS	8.506	1.135	0.0	0.05	7.0	1.0000	380
DL/S7-11.1.0	CROSS	EQ	PS	8.506	1.135	0.0	0.12	14.7	0.9790	380
DL/S5-10.1.0	FIRST	1	PS	7.268	0.910	0.0	0.05	7.0	1.0000	-
DL/S5-10.1.0	FIRST	2	PS	7.635	1.704	6.0	0.05	7.0	1.0000	-
DL/S5-10.1.0	FIRST	EQ	SB	8.331	2.729	-0.1	0.12	13.1	0.9510	-
DL/S6-11.1.0	FIRST	1	SB	7.189	0.600	-8.3	0.05	7.0	1.0000	-
DL/S6-11.1.0	FIRST	2	SB	7.606	0.925	-10.7	0.05	7.0	1.0000	-
DL/S6-11.1.0	FIRST	EQ	SB	8.546	1.315	-2.3	0.05	7.0	1.0000	-
DL/S6-11.1.0	CROSS	1	SB	8.580	1.303	-0.0	0.05	7.0	1.0000	378
DL/S6-11.1.0	CROSS	2	SB	8.580	1.303	-0.0	0.05	7.0	1.0000	378
DL/S6-11.1.0	CROSS	EQ	SB	8.580	1.303	-0.0	0.12	15.2	0.9873	378

13 Result of Calculation according to Regulation 8

13.1 Results for DS

RESULTS

INIT	DAM	STAGE	HEEL degree	MINGM m	SFACSOL	DCRI	FLUNOP	STAT
DS	R8S3-4.1.0	INT2	-3.0	1.830	0.9419	S-REG8	PB2ST	OK
DS	R8P2-3.1.0	INT2	3.2	2.084	0.9428	S-REG8	PB3PT	OK
DS	R8P11-12.1.0-1	CROSS	2.9	2.213	0.9429	S-REG8	PB12PT	OK
DS	R8P11-12.1.0	CROSS	2.9	2.213	0.9429	S-REG8	PB12PT	OK
DS	R8S11-12.1.0-1	CROSS	-2.9	2.213	0.9429	S-REG8	PB12ST	OK
DS	R8S11-12.1.0	CROSS	-2.9	2.213	0.9429	S-REG8	PB12ST	OK
DS	R8P3-4.1.0	INT2	3.0	1.811	0.9431	S-REG8	PB2PT	OK
DS	R8S2-3.1.0	INT2	-3.1	2.038	0.9459	S-REG8	PB3ST	OK
DS	R8P13-14.1.0-1	FIRST	0.0	1.448	0.9463	S-REG8	PB12PT	OK
DS	R8P13-14.1.0	FIRST	0.0	1.448	0.9463	S-REG8	PB12PT	OK
DS	R8S13-14.1.0-1	FIRST	0.0	1.448	0.9463	S-REG8	PB12PT	OK
DS	R8S13-14.1.0	FIRST	0.0	1.448	0.9463	S-REG8	PB12PT	OK
DS	R8S3-4.1.0-1	INT2	-3.0	1.815	0.9467	S-REG8	PB2ST	OK
DS	R8P3-4.1.0-1	INT2	3.0	1.795	0.9479	S-REG8	PB2PT	OK
DS	R8P11-12.1.0-2	FIRST	3.5	2.194	0.9495	S-REG8	PB12PT	OK
DS	R8S11-12.1.0-2	FIRST	-3.5	2.194	0.9495	S-REG8	PB12ST	OK
DS	R8P10-11.1.0-1	FIRST	3.9	2.163	0.9612	S-REG8	PB9PT	OK
DS	R8S10-11.1.0-1	FIRST	-3.9	2.163	0.9612	S-REG8	PB9ST	OK
DS	R8P10-11.1.0	FIRST	3.6	2.131	0.9627	S-REG8	PB9PT	OK
DS	R8S10-11.1.0	FIRST	-3.6	2.131	0.9627	S-REG8	PB9ST	OK
DS	R8P13-14.1.0-2	FIRST	0.0	1.495	0.9653	S-REG8	PB12PT	OK
DS	R8S13-14.1.0-2	FIRST	0.0	1.495	0.9653	S-REG8	PB12PT	OK
DS	R8S4-5.1.0	FIRST	-0.9	0.998	0.9676	S-REG8	PB3ST	OK
DS	R8P4-5.1.0	FIRST	0.8	0.971	0.9701	S-REG8	PB3PT	OK
DS	R8S4-5.1.0-1	FIRST	-0.8	1.116	0.9767	S-REG8	PB3ST	OK
DS	R8P4-5.1.0-1	FIRST	0.8	1.096	0.9789	S-REG8	PB3PT	OK
DS	R8S4-5.1.0-2	FIRST	-0.8	1.166	0.9812	S-REG8	PB3ST	OK
DS	R8P4-5.1.0-2	FIRST	0.8	1.147	0.9833	S-REG8	PB3PT	OK
DS	R8P5-6.1.0	FIRST	0.0	0.991	0.9858	S-REG8	PB4PT	OK
DS	R8S5-6.1.0	FIRST	0.0	0.991	0.9858	S-REG8	PB4PT	OK
DS	R8P3.1.0	INT2	2.2	1.088	0.9894	S-REG8	PB2PT	OK
DS	R8S3.1.0	INT2	-2.2	1.073	0.9908	S-REG8	PB2ST	OK
DS	R8P6-7.1.0	FIRST	0.0	0.987	0.9915	S-REG8	PB4PT	OK
DS	R8P9-10.1.0	CROSS	0.0	1.631	0.9931	S-REG8	PB10PT	OK
DS	R8S9-10.1.0	CROSS	0.0	1.631	0.9931	S-REG8	PB10PT	OK
DS	R8P7-8.1.0	FIRST	0.0	1.080	0.9974	S-REG8	PB6PT	OK
DS	R8S7-8.1.0	FIRST	0.0	1.080	0.9974	S-REG8	PB6PT	OK
DS	R8P9-10.1.0-1	FIRST	0.0	1.768	0.9983	S-REG8	PB10PT	OK
DS	R8S9-10.1.0-1	FIRST	0.0	1.768	0.9983	S-REG8	PB10PT	OK
DS	R8P13.1.0	FIRST	0.0	0.850	0.9987	S-REG8	PB12PT	OK
DS	R8S13.1.0	FIRST	0.0	0.850	0.9987	S-REG8	PB12PT	OK
DS	R8P1.1.0	FIRST	0.0	-	1.0000	-	-	-
DS	R8P1.1.0	FIRST	0.0	0.026	1.0000	S-REG8	-	OK
DS	R8P1.1.0	FIRST	0.0	0.373	1.0000	S-REG8	-	OK

INIT	DAM	STAGE	HEEL degree	MINGM m	SFACSOL	DCRI	FLUNOP	STAT
DS	R8P2.1.0	FIRST	0.0	0.190	1.0000	S-REG8	PB2PT	OK
DS	R8P2.1.0	FIRST	0.0	0.307	1.0000	S-REG8	PB2PT	OK
DS	R8P2.1.0	FIRST	0.0	0.467	1.0000	S-REG8	PB2PT	OK
DS	R8P2.1.0	INT2	0.0	0.358	1.0000	S-REG8	PB2PT	OK
DS	R8P2.1.0	INT2	0.0	0.358	1.0000	S-REG8	PB2PT	OK
DS	R8P2.1.0	INT2	0.0	0.678	1.0000	S-REG8	PB2PT	OK
DS	R8P3.1.0	FIRST	0.8	0.252	1.0000	S-REG8	PB2PT	OK
DS	R8P3.1.0	FIRST	1.7	0.420	1.0000	S-REG8	PB2PT	OK
DS	R8P3.1.0	FIRST	2.2	0.709	1.0000	S-REG8	PB2PT	OK
DS	R8P3.1.0	INT1	2.2	0.631	1.0000	S-REG8	PB2PT	OK
DS	R8P3.1.0	INT1	2.2	0.631	1.0000	S-REG8	PB2PT	OK
DS	R8P3.1.0	INT1	2.2	0.709	1.0000	S-REG8	PB2PT	OK
DS	R8P3.1.0	INT2	2.2	0.643	1.0000	S-REG8	PB2PT	OK
DS	R8P3.1.0	INT2	2.2	0.643	1.0000	S-REG8	PB2PT	OK
DS	R8P4.1.0-1	FIRST	0.0	0.323	1.0000	S-REG8	PB3PT	OK
DS	R8P4.1.0-1	FIRST	0.0	0.530	1.0000	S-REG8	PB3PT	OK
DS	R8P4.1.0-1	FIRST	0.4	0.772	1.0000	S-REG8	PB3PT	OK
DS	R8P4.1.0	FIRST	0.0	0.311	1.0000	S-REG8	PB3PT	OK
DS	R8P4.1.0	FIRST	0.0	0.479	1.0000	S-REG8	PB3PT	OK
DS	R8P4.1.0	FIRST	0.4	0.717	1.0000	S-REG8	PB3PT	OK
DS	R8P5.1.0-1	FIRST	0.0	0.428	1.0000	S-REG8	PB4PT	OK
DS	R8P5.1.0-1	FIRST	0.0	0.334	1.0000	S-REG8	PB4PT	OK
DS	R8P5.1.0-1	FIRST	0.0	0.643	1.0000	S-REG8	PB4PT	OK
DS	R8P5.1.0	FIRST	0.0	0.413	1.0000	S-REG8	PB4PT	OK
DS	R8P5.1.0	FIRST	0.0	0.288	1.0000	S-REG8	PB4PT	OK
DS	R8P5.1.0	FIRST	0.0	0.502	1.0000	S-REG8	PB4PT	OK
DS	R8P6.1.0-1	FIRST	0.0	0.346	1.0000	S-REG8	PB7PT	OK
DS	R8P6.1.0-1	FIRST	0.0	0.561	1.0000	S-REG8	PB4PT	OK
DS	R8P6.1.0-1	FIRST	0.0	1.038	1.0000	S-REG8	PB4PT	OK
DS	R8P6.1.0	FIRST	0.0	0.424	1.0000	S-REG8	PB4PT	OK
DS	R8P6.1.0	FIRST	0.0	0.385	1.0000	S-REG8	PB4PT	OK
DS	R8P6.1.0	FIRST	0.0	0.733	1.0000	S-REG8	PB4PT	OK
DS	R8P7.1.0-1	FIRST	0.0	0.452	1.0000	S-REG8	PB6PT	OK
DS	R8P7.1.0-1	FIRST	0.0	0.346	1.0000	S-REG8	PB6PT	OK
DS	R8P7.1.0-1	FIRST	0.0	0.733	1.0000	S-REG8	PB6PT	OK
DS	R8P7.1.0	FIRST	0.0	0.487	1.0000	S-REG8	PB6PT	OK
DS	R8P7.1.0	FIRST	0.0	0.288	1.0000	S-REG8	PB6PT	OK
DS	R8P7.1.0	FIRST	0.0	0.534	1.0000	S-REG8	PB6PT	OK
DS	R8P8.1.0-1	FIRST	0.0	0.471	1.0000	S-REG8	PB8PT	OK
DS	R8P8.1.0-1	FIRST	0.0	0.455	1.0000	S-REG8	PB8PT	OK
DS	R8P8.1.0-1	FIRST	0.0	0.877	1.0000	S-REG8	PB7PT	OK
DS	R8P8.1.0	FIRST	0.0	0.518	1.0000	S-REG8	PB8PT	OK
DS	R8P8.1.0	FIRST	0.0	0.455	1.0000	S-REG8	PB8PT	OK
DS	R8P8.1.0	FIRST	0.0	0.788	1.0000	S-REG8	PB7PT	OK
DS	R8P9.1.0-1	FIRST	0.0	0.663	1.0000	S-REG8	PB9PT	OK
DS	R8P9.1.0-1	FIRST	0.0	0.647	1.0000	S-REG8	PB9PT	OK
DS	R8P9.1.0-1	FIRST	0.0	0.928	1.0000	S-REG8	PB9PT	OK
DS	R8P9.1.0	FIRST	1.9	0.745	1.0000	S-REG8	PB9PT	OK
DS	R8P9.1.0	FIRST	2.3	0.803	1.0000	S-REG8	PB9PT	OK
DS	R8P9.1.0	FIRST	1.0	0.791	1.0000	S-REG8	PB9PT	OK
DS	R8P9.1.0	CROSS	0.0	0.616	1.0000	S-REG8	PB9PT	OK
DS	R8P9.1.0	CROSS	0.0	0.616	1.0000	S-REG8	PB9PT	OK
DS	R8P9.1.0	CROSS	0.0	0.850	1.0000	S-REG8	PB9PT	OK
DS	R8P10.1.0-1	FIRST	0.0	0.553	1.0000	S-REG8	PB10PT	OK

INIT	DAM	STAGE	HEEL degree	MINGM m	SFACSOL	DCRI	FLUNOP	STAT
DS	R8P10.1.0-1	FIRST	0.0	0.580	1.0000	S-REG8	PB10PT	OK
DS	R8P10.1.0-1	FIRST	0.0	1.112	1.0000	S-REG8	PB10PT	OK
DS	R8P10.1.0	FIRST	0.0	0.557	1.0000	S-REG8	PB10PT	OK
DS	R8P10.1.0	FIRST	0.0	0.596	1.0000	S-REG8	PB10PT	OK
DS	R8P10.1.0	FIRST	0.0	1.053	1.0000	S-REG8	PB10PT	OK
DS	R8P11.1.0-1	FIRST	0.6	0.170	1.0000	S-REG8	PB10PT	OK
DS	R8P11.1.0-1	FIRST	1.2	0.291	1.0000	S-REG8	PB10PT	OK
DS	R8P11.1.0-1	FIRST	1.9	1.088	1.0000	S-REG8	PB10PT	OK
DS	R8P11.1.0	FIRST	0.6	0.170	1.0000	S-REG8	PB10PT	OK
DS	R8P11.1.0	FIRST	1.2	0.291	1.0000	S-REG8	PB10PT	OK
DS	R8P11.1.0	FIRST	1.9	1.088	1.0000	S-REG8	PB10PT	OK
DS	R8P12.1.0-1	FIRST	0.0	0.385	1.0000	S-REG8	PB12PT	OK
DS	R8P12.1.0-1	FIRST	0.0	0.620	1.0000	S-REG8	PB12PT	OK
DS	R8P12.1.0-1	FIRST	0.0	0.971	1.0000	S-REG8	PB12PT	OK
DS	R8P12.1.0	FIRST	0.5	0.436	1.0000	S-REG8	PB12PT	OK
DS	R8P12.1.0	FIRST	1.2	0.741	1.0000	S-REG8	PB12PT	OK
DS	R8P12.1.0	FIRST	2.0	0.928	1.0000	S-REG8	PB12PT	OK
DS	R8P12.1.0	CROSS	1.1	0.776	1.0000	S-REG8	PB12PT	OK
DS	R8P12.1.0	CROSS	0.0	0.565	1.0000	S-REG8	PB12PT	OK
DS	R8P12.1.0	CROSS	0.0	0.795	1.0000	S-REG8	PB12PT	OK
DS	R8P13.1.0-1	FIRST	0.0	0.319	1.0000	S-REG8	PB12PT	OK
DS	R8P13.1.0-1	FIRST	0.0	0.541	1.0000	S-REG8	PB12PT	OK
DS	R8P13.1.0-1	FIRST	0.0	0.967	1.0000	S-REG8	PB12PT	OK
DS	R8P13.1.0	FIRST	0.0	0.362	1.0000	S-REG8	PB12PT	OK
DS	R8P13.1.0	FIRST	0.0	0.565	1.0000	S-REG8	PB12PT	OK
DS	R8P14.1.0-1	FIRST	0.0	0.069	1.0000	S-REG8	-	OK
DS	R8P14.1.0-1	FIRST	0.0	0.151	1.0000	S-REG8	-	OK
DS	R8P14.1.0-1	FIRST	0.0	0.565	1.0000	S-REG8	-	OK
DS	R8P14.1.0	FIRST	0.0	0.069	1.0000	S-REG8	-	OK
DS	R8P14.1.0	FIRST	0.0	0.151	1.0000	S-REG8	-	OK
DS	R8P14.1.0	FIRST	0.0	0.565	1.0000	S-REG8	-	OK
DS	R8P15.1.0-1	FIRST	0.0	0.038	1.0000	S-REG8	-	OK
DS	R8P15.1.0-1	FIRST	0.0	0.034	1.0000	S-REG8	-	OK
DS	R8P15.1.0-1	FIRST	0.0	0.264	1.0000	S-REG8	-	OK
DS	R8P15.1.0	FIRST	0.0	0.010	1.0000	S-REG8	-	OK
DS	R8P15.1.0	FIRST	0.0	-0.009	1.0000	S-REG8	-	OK
DS	R8P15.1.0	FIRST	0.0	0.229	1.0000	S-REG8	-	OK
DS	R8P16.1.0	FIRST	0.0	0.030	1.0000	S-REG8	-	OK
DS	R8P16.1.0	FIRST	0.0	0.010	1.0000	S-REG8	-	OK
DS	R8P16.1.0	FIRST	0.0	0.209	1.0000	S-REG8	-	OK
DS	R8P1-2.0.0	FIRST	0.0	0.170	1.0000	S-REG8	PB2PT	OK
DS	R8P1-2.0.0	FIRST	0.0	0.288	1.0000	S-REG8	PB2PT	OK
DS	R8P1-2.0.0	FIRST	0.0	0.647	1.0000	S-REG8	PB2PT	OK
DS	R8P1-2.0.0	INT2	0.0	0.522	1.0000	S-REG8	PB2PT	OK
DS	R8P1-2.0.0	INT2	0.0	0.522	1.0000	S-REG8	PB2PT	OK
DS	R8P1-2.0.0	INT2	0.0	0.870	1.0000	S-REG8	PB2PT	OK
DS	R8P2-3.1.0	FIRST	0.7	0.409	1.0000	S-REG8	PB3PT	OK
DS	R8P2-3.1.0	FIRST	2.0	0.768	1.0000	S-REG8	PB3PT	OK
DS	R8P2-3.1.0	FIRST	3.2	1.346	1.0000	S-REG8	PB3PT	OK
DS	R8P2-3.1.0	INT1	3.2	1.092	1.0000	S-REG8	PB3PT	OK
DS	R8P2-3.1.0	INT1	3.2	1.092	1.0000	S-REG8	PB3PT	OK
DS	R8P2-3.1.0	INT1	3.2	1.346	1.0000	S-REG8	PB3PT	OK
DS	R8P2-3.1.0	INT2	3.2	1.112	1.0000	S-REG8	PB3PT	OK
DS	R8P2-3.1.0	INT2	3.2	1.112	1.0000	S-REG8	PB3PT	OK

INIT	DAM	STAGE	HEEL degree	MINGM m	SFACSOL	DCRI	FLUNOP	STAT
DS	R8P3-4.1.0-1	FIRST	1.1	0.580	1.0000	S-REG8	PB2PT	OK
DS	R8P3-4.1.0-1	FIRST	2.5	1.022	1.0000	S-REG8	PB2PT	OK
DS	R8P3-4.1.0-1	FIRST	3.0	1.260	1.0000	S-REG8	PB2PT	OK
DS	R8P3-4.1.0-1	INT1	3.0	1.166	1.0000	S-REG8	PB2PT	OK
DS	R8P3-4.1.0-1	INT1	3.0	1.166	1.0000	S-REG8	PB2PT	OK
DS	R8P3-4.1.0-1	INT1	3.0	1.260	1.0000	S-REG8	PB2PT	OK
DS	R8P3-4.1.0-1	INT2	3.0	1.186	1.0000	S-REG8	PB2PT	OK
DS	R8P3-4.1.0-1	INT2	3.0	1.186	1.0000	S-REG8	PB2PT	OK
DS	R8P3-4.1.0	FIRST	1.1	0.569	1.0000	S-REG8	PB2PT	OK
DS	R8P3-4.1.0	FIRST	2.4	0.998	1.0000	S-REG8	PB2PT	OK
DS	R8P3-4.1.0	FIRST	3.0	1.217	1.0000	S-REG8	PB2PT	OK
DS	R8P3-4.1.0	INT1	3.0	1.120	1.0000	S-REG8	PB2PT	OK
DS	R8P3-4.1.0	INT1	3.0	1.120	1.0000	S-REG8	PB2PT	OK
DS	R8P3-4.1.0	INT1	3.0	1.217	1.0000	S-REG8	PB2PT	OK
DS	R8P3-4.1.0	INT2	3.0	1.139	1.0000	S-REG8	PB2PT	OK
DS	R8P3-4.1.0	INT2	3.0	1.139	1.0000	S-REG8	PB2PT	OK
DS	R8P4-5.1.0-1	FIRST	0.0	0.780	1.0000	S-REG8	PB3PT	OK
DS	R8P4-5.1.0-1	FIRST	0.0	0.909	1.0000	S-REG8	PB3PT	OK
DS	R8P4-5.1.0-2	FIRST	0.0	0.784	1.0000	S-REG8	PB3PT	OK
DS	R8P4-5.1.0-2	FIRST	0.0	0.924	1.0000	S-REG8	PB3PT	OK
DS	R8P4-5.1.0	FIRST	0.0	0.745	1.0000	S-REG8	PB3PT	OK
DS	R8P4-5.1.0	FIRST	0.0	0.846	1.0000	S-REG8	PB3PT	OK
DS	R8P5-6.1.0-1	FIRST	0.0	0.799	1.0000	S-REG8	PB4PT	OK
DS	R8P5-6.1.0-1	FIRST	0.0	0.905	1.0000	S-REG8	PB4PT	OK
DS	R8P5-6.1.0-1	FIRST	0.0	1.288	1.0000	S-REG8	PB4PT	OK
DS	R8P5-6.1.0	FIRST	0.0	0.799	1.0000	S-REG8	PB4PT	OK
DS	R8P5-6.1.0	FIRST	0.0	0.745	1.0000	S-REG8	PB4PT	OK
DS	R8P6-7.1.0-1	FIRST	0.0	0.827	1.0000	S-REG8	PB4PT	OK
DS	R8P6-7.1.0-1	FIRST	0.0	0.920	1.0000	S-REG8	PB4PT	OK
DS	R8P6-7.1.0-1	FIRST	0.0	1.295	1.0000	S-REG8	PB4PT	OK
DS	R8P6-7.1.0	FIRST	0.0	0.823	1.0000	S-REG8	PB4PT	OK
DS	R8P6-7.1.0	FIRST	0.0	0.760	1.0000	S-REG8	PB4PT	OK
DS	R8P7-8.1.0-1	FIRST	0.9	0.944	1.0000	S-REG8	PB6PT	OK
DS	R8P7-8.1.0-1	FIRST	1.1	0.948	1.0000	S-REG8	PB6PT	OK
DS	R8P7-8.1.0-1	FIRST	0.0	1.354	1.0000	S-REG8	PB6PT	OK
DS	R8P7-8.1.0	FIRST	0.7	1.018	1.0000	S-REG8	PB6PT	OK
DS	R8P7-8.1.0	FIRST	0.0	0.940	1.0000	S-REG8	PB6PT	OK
DS	R8P8-9.1.0-1	FIRST	1.9	1.186	1.0000	S-REG8	PB9PT	OK
DS	R8P8-9.1.0-1	FIRST	4.2	1.323	1.0000	S-REG8	PB9PT	OK
DS	R8P8-9.1.0-1	FIRST	0.0	1.522	1.0000	S-REG8	PB9PT	OK
DS	R8P8-9.1.0	FIRST	3.8	1.330	1.0000	S-REG8	PB9PT	OK
DS	R8P8-9.1.0	FIRST	5.8	1.506	1.0000	S-REG8	PB9PT	OK
DS	R8P8-9.1.0	FIRST	1.4	1.291	1.0000	S-REG8	PB9PT	OK
DS	R8P8-9.1.0	CROSS	0.0	1.104	1.0000	S-REG8	PB9PT	OK
DS	R8P8-9.1.0	CROSS	0.0	1.104	1.0000	S-REG8	PB9PT	OK
DS	R8P8-9.1.0	CROSS	0.0	1.350	1.0000	S-REG8	PB9PT	OK
DS	R8P9-10.1.0-1	FIRST	2.6	1.299	1.0000	S-REG8	PB10PT	OK
DS	R8P9-10.1.0-1	FIRST	6.3	1.541	1.0000	S-REG8	PB10PT	OK
DS	R8P9-10.1.0	FIRST	4.4	1.389	1.0000	S-REG8	PB10PT	OK
DS	R8P9-10.1.0	FIRST	7.7	1.741	1.0000	S-REG8	PB10PT	OK
DS	R8P9-10.1.0	FIRST	1.6	1.580	1.0000	S-REG8	PB10PT	OK
DS	R8P9-10.1.0	CROSS	0.0	1.381	1.0000	S-REG8	PB10PT	OK
DS	R8P9-10.1.0	CROSS	0.0	1.381	1.0000	S-REG8	PB10PT	OK
DS	R8P10-11.1.0-1	FIRST	1.7	0.674	1.0000	S-REG8	PB9PT	OK

INIT	DAM	STAGE	HEEL degree	MINGM m	SFACSOL	DCRI	FLUNOP	STAT
DS	R8P10-11.1.0-1	FIRST	3.9	0.940	1.0000	S-REG8	PB9PT	OK
DS	R8P10-11.1.0	FIRST	1.6	0.678	1.0000	S-REG8	PB9PT	OK
DS	R8P10-11.1.0	FIRST	3.8	0.959	1.0000	S-REG8	PB9PT	OK
DS	R8P11-12.1.0-1	FIRST	1.0	0.569	1.0000	S-REG8	PB12PT	OK
DS	R8P11-12.1.0-1	FIRST	2.6	1.170	1.0000	S-REG8	PB12PT	OK
DS	R8P11-12.1.0-1	FIRST	6.2	1.928	1.0000	S-REG8	PB12PT	OK
DS	R8P11-12.1.0-1	CROSS	4.9	1.768	1.0000	S-REG8	PB12PT	OK
DS	R8P11-12.1.0-1	CROSS	2.9	1.549	1.0000	S-REG8	PB12PT	OK
DS	R8P11-12.1.0-2	FIRST	0.5	0.518	1.0000	S-REG8	PB12PT	OK
DS	R8P11-12.1.0-2	FIRST	1.1	1.002	1.0000	S-REG8	PB12PT	OK
DS	R8P11-12.1.0	FIRST	1.0	0.569	1.0000	S-REG8	PB12PT	OK
DS	R8P11-12.1.0	FIRST	2.6	1.170	1.0000	S-REG8	PB12PT	OK
DS	R8P11-12.1.0	FIRST	6.2	1.928	1.0000	S-REG8	PB12PT	OK
DS	R8P11-12.1.0	CROSS	4.9	1.768	1.0000	S-REG8	PB12PT	OK
DS	R8P11-12.1.0	CROSS	2.9	1.549	1.0000	S-REG8	PB12PT	OK
DS	R8P12-13.1.0-1	FIRST	0.0	0.635	1.0000	S-REG8	-	OK
DS	R8P12-13.1.0-1	FIRST	0.0	1.123	1.0000	S-REG8	-	OK
DS	R8P12-13.1.0-1	FIRST	0.0	1.760	1.0000	S-REG8	-	OK
DS	R8P12-13.1.0	FIRST	0.8	0.733	1.0000	S-REG8	-	OK
DS	R8P12-13.1.0	FIRST	2.0	1.330	1.0000	S-REG8	-	OK
DS	R8P12-13.1.0	FIRST	3.0	1.608	1.0000	S-REG8	-	OK
DS	R8P12-13.1.0	CROSS	1.3	1.444	1.0000	S-REG8	-	OK
DS	R8P12-13.1.0	CROSS	0.0	1.284	1.0000	S-REG8	-	OK
DS	R8P12-13.1.0	CROSS	0.0	1.549	1.0000	S-REG8	-	OK
DS	R8P13-14.1.0-1	FIRST	0.0	0.377	1.0000	S-REG8	PB12PT	OK
DS	R8P13-14.1.0-1	FIRST	0.0	0.553	1.0000	S-REG8	PB12PT	OK
DS	R8P13-14.1.0-2	FIRST	0.0	0.334	1.0000	S-REG8	PB12PT	OK
DS	R8P13-14.1.0-2	FIRST	0.0	0.670	1.0000	S-REG8	PB12PT	OK
DS	R8P13-14.1.0	FIRST	0.0	0.377	1.0000	S-REG8	PB12PT	OK
DS	R8P13-14.1.0	FIRST	0.0	0.553	1.0000	S-REG8	PB12PT	OK
DS	R8P14-15.1.0-1	FIRST	0.0	0.022	1.0000	S-REG8	-	OK
DS	R8P14-15.1.0-1	FIRST	0.0	0.096	1.0000	S-REG8	-	OK
DS	R8P14-15.1.0-1	FIRST	0.0	0.616	1.0000	S-REG8	-	OK
DS	R8P14-15.1.0-2	FIRST	0.0	0.065	1.0000	S-REG8	-	OK
DS	R8P14-15.1.0-2	FIRST	0.0	0.143	1.0000	S-REG8	-	OK
DS	R8P14-15.1.0-2	FIRST	0.0	0.639	1.0000	S-REG8	-	OK
DS	R8P14-15.1.0	FIRST	0.0	0.022	1.0000	S-REG8	-	OK
DS	R8P14-15.1.0	FIRST	0.0	0.096	1.0000	S-REG8	-	OK
DS	R8P14-15.1.0	FIRST	0.0	0.616	1.0000	S-REG8	-	OK
DS	R8P15-16.1.0-1	FIRST	0.0	0.006	1.0000	S-REG8	-	OK
DS	R8P15-16.1.0-1	FIRST	0.0	-0.021	1.0000	S-REG8	-	OK
DS	R8P15-16.1.0-1	FIRST	0.0	0.213	1.0000	S-REG8	-	OK
DS	R8P15-16.1.0	FIRST	0.0	-0.017	1.0000	S-REG8	-	OK
DS	R8P15-16.1.0	FIRST	0.0	-0.060	1.0000	S-REG8	-	OK
DS	R8P15-16.1.0	FIRST	0.0	0.178	1.0000	S-REG8	-	OK
DS	R8S1.1.0	FIRST	0.0	0.034	1.0000	S-REG8	-	OK
DS	R8S1.1.0	FIRST	0.0	0.026	1.0000	S-REG8	-	OK
DS	R8S1.1.0	FIRST	0.0	0.307	1.0000	S-REG8	-	OK
DS	R8S2.1.0	FIRST	0.0	0.190	1.0000	S-REG8	PB2PT	OK
DS	R8S2.1.0	FIRST	0.0	0.299	1.0000	S-REG8	PB2PT	OK
DS	R8S2.1.0	FIRST	0.0	0.338	1.0000	S-REG8	PB2PT	OK
DS	R8S2.1.0	INT1	0.0	0.358	1.0000	S-REG8	PB2PT	OK
DS	R8S2.1.0	INT1	0.0	0.358	1.0000	S-REG8	PB2PT	OK
DS	R8S2.1.0	INT1	0.0	0.678	1.0000	S-REG8	PB2PT	OK

INIT	DAM	STAGE	HEEL degree	MINGM m	SFACSOL	DCRI	FLUNOP	STAT
DS	R8S3.1.0	FIRST	-0.8	0.252	1.0000	S-REG8	PB2ST	OK
DS	R8S3.1.0	FIRST	-1.6	0.436	1.0000	S-REG8	PB2ST	OK
DS	R8S3.1.0	FIRST	-2.2	0.702	1.0000	S-REG8	PB2ST	OK
DS	R8S3.1.0	INT1	-2.2	0.702	1.0000	S-REG8	PB2ST	OK
DS	R8S3.1.0	INT1	-2.2	0.702	1.0000	S-REG8	PB2ST	OK
DS	R8S3.1.0	INT1	-2.2	0.702	1.0000	S-REG8	PB2ST	OK
DS	R8S3.1.0	INT2	-2.2	0.635	1.0000	S-REG8	PB2ST	OK
DS	R8S3.1.0	INT2	-2.2	0.635	1.0000	S-REG8	PB2ST	OK
DS	R8S4.1.0-1	FIRST	-0.1	0.330	1.0000	S-REG8	PB3ST	OK
DS	R8S4.1.0-1	FIRST	-0.2	0.291	1.0000	S-REG8	PB3ST	OK
DS	R8S4.1.0-1	FIRST	-0.4	0.830	1.0000	S-REG8	PB3ST	OK
DS	R8S4.1.0	FIRST	-0.1	0.319	1.0000	S-REG8	PB3ST	OK
DS	R8S4.1.0	FIRST	-0.3	0.315	1.0000	S-REG8	PB3ST	OK
DS	R8S4.1.0	FIRST	-0.4	0.776	1.0000	S-REG8	PB3ST	OK
DS	R8S5.1.0-1	FIRST	0.0	0.428	1.0000	S-REG8	PB4PT	OK
DS	R8S5.1.0-1	FIRST	0.0	0.334	1.0000	S-REG8	PB4PT	OK
DS	R8S5.1.0-1	FIRST	0.0	0.643	1.0000	S-REG8	PB4PT	OK
DS	R8S5.1.0	FIRST	0.0	0.413	1.0000	S-REG8	PB4PT	OK
DS	R8S5.1.0	FIRST	0.0	0.288	1.0000	S-REG8	PB4PT	OK
DS	R8S5.1.0	FIRST	0.0	0.502	1.0000	S-REG8	PB4PT	OK
DS	R8S6.1.0-1	FIRST	0.0	0.346	1.0000	S-REG8	PB7PT	OK
DS	R8S6.1.0-1	FIRST	0.0	0.561	1.0000	S-REG8	PB6PT	OK
DS	R8S6.1.0-1	FIRST	0.0	0.889	1.0000	S-REG8	PB6PT	OK
DS	R8S6.1.0	FIRST	0.0	0.424	1.0000	S-REG8	PB6PT	OK
DS	R8S6.1.0	FIRST	0.0	0.385	1.0000	S-REG8	PB6PT	OK
DS	R8S6.1.0	FIRST	0.0	0.553	1.0000	S-REG8	PB6PT	OK
DS	R8S7.1.0-1	FIRST	0.0	0.452	1.0000	S-REG8	PB6PT	OK
DS	R8S7.1.0-1	FIRST	0.0	0.346	1.0000	S-REG8	PB6PT	OK
DS	R8S7.1.0-1	FIRST	0.0	0.733	1.0000	S-REG8	PB6PT	OK
DS	R8S7.1.0	FIRST	0.0	0.487	1.0000	S-REG8	PB6PT	OK
DS	R8S7.1.0	FIRST	0.0	0.288	1.0000	S-REG8	PB6PT	OK
DS	R8S7.1.0	FIRST	0.0	0.534	1.0000	S-REG8	PB6PT	OK
DS	R8S8.1.0-1	FIRST	0.0	0.471	1.0000	S-REG8	PB8PT	OK
DS	R8S8.1.0-1	FIRST	0.0	0.455	1.0000	S-REG8	PB8PT	OK
DS	R8S8.1.0-1	FIRST	0.0	0.877	1.0000	S-REG8	PB7PT	OK
DS	R8S8.1.0	FIRST	0.0	0.518	1.0000	S-REG8	PB8PT	OK
DS	R8S8.1.0	FIRST	0.0	0.455	1.0000	S-REG8	PB8PT	OK
DS	R8S8.1.0	FIRST	0.0	0.788	1.0000	S-REG8	PB7PT	OK
DS	R8S9.1.0-1	FIRST	0.0	0.663	1.0000	S-REG8	PB9PT	OK
DS	R8S9.1.0-1	FIRST	0.0	0.647	1.0000	S-REG8	PB9PT	OK
DS	R8S9.1.0-1	FIRST	0.0	0.928	1.0000	S-REG8	PB9PT	OK
DS	R8S9.1.0	FIRST	-1.9	0.745	1.0000	S-REG8	PB9ST	OK
DS	R8S9.1.0	FIRST	-2.3	0.803	1.0000	S-REG8	PB9ST	OK
DS	R8S9.1.0	FIRST	-1.0	0.791	1.0000	S-REG8	PB9ST	OK
DS	R8S9.1.0	CROSS	0.0	0.616	1.0000	S-REG8	PB9PT	OK
DS	R8S9.1.0	CROSS	0.0	0.616	1.0000	S-REG8	PB9PT	OK
DS	R8S9.1.0	CROSS	0.0	0.850	1.0000	S-REG8	PB9PT	OK
DS	R8S10.1.0-1	FIRST	0.0	0.553	1.0000	S-REG8	PB10PT	OK
DS	R8S10.1.0-1	FIRST	0.0	0.580	1.0000	S-REG8	PB10PT	OK
DS	R8S10.1.0-1	FIRST	0.0	1.112	1.0000	S-REG8	PB10PT	OK
DS	R8S10.1.0	FIRST	0.0	0.557	1.0000	S-REG8	PB10PT	OK
DS	R8S10.1.0	FIRST	0.0	0.596	1.0000	S-REG8	PB10PT	OK
DS	R8S10.1.0	FIRST	0.0	1.053	1.0000	S-REG8	PB10PT	OK
DS	R8S11.1.0-1	FIRST	-0.6	0.170	1.0000	S-REG8	PB10ST	OK

INIT	DAM	STAGE	HEEL degree	MINGM m	SFACSOL	DCRI	FLUNOP	STAT
DS	R8S11.1.0-1	FIRST	-1.2	0.291	1.0000	S-REG8	PB10ST	OK
DS	R8S11.1.0-1	FIRST	-1.9	1.088	1.0000	S-REG8	PB10ST	OK
DS	R8S11.1.0	FIRST	-0.6	0.170	1.0000	S-REG8	PB10ST	OK
DS	R8S11.1.0	FIRST	-1.2	0.291	1.0000	S-REG8	PB10ST	OK
DS	R8S11.1.0	FIRST	-1.9	1.088	1.0000	S-REG8	PB10ST	OK
DS	R8S12.1.0-1	FIRST	0.0	0.385	1.0000	S-REG8	PB12PT	OK
DS	R8S12.1.0-1	FIRST	0.0	0.620	1.0000	S-REG8	PB12PT	OK
DS	R8S12.1.0-1	FIRST	0.0	0.971	1.0000	S-REG8	PB12PT	OK
DS	R8S12.1.0	FIRST	-0.5	0.436	1.0000	S-REG8	PB12ST	OK
DS	R8S12.1.0	FIRST	-1.2	0.741	1.0000	S-REG8	PB12ST	OK
DS	R8S12.1.0	FIRST	-2.0	0.928	1.0000	S-REG8	PB12ST	OK
DS	R8S12.1.0	CROSS	-1.1	0.776	1.0000	S-REG8	PB12ST	OK
DS	R8S12.1.0	CROSS	0.0	0.569	1.0000	S-REG8	PB12PT	OK
DS	R8S12.1.0	CROSS	0.0	0.795	1.0000	S-REG8	PB12PT	OK
DS	R8S13.1.0-1	FIRST	0.0	0.319	1.0000	S-REG8	PB12PT	OK
DS	R8S13.1.0-1	FIRST	0.0	0.541	1.0000	S-REG8	PB12PT	OK
DS	R8S13.1.0-1	FIRST	0.0	0.967	1.0000	S-REG8	PB12PT	OK
DS	R8S13.1.0	FIRST	0.0	0.362	1.0000	S-REG8	PB12PT	OK
DS	R8S13.1.0	FIRST	0.0	0.565	1.0000	S-REG8	PB12PT	OK
DS	R8S14.1.0-1	FIRST	0.0	0.069	1.0000	S-REG8	-	OK
DS	R8S14.1.0-1	FIRST	0.0	0.151	1.0000	S-REG8	-	OK
DS	R8S14.1.0-1	FIRST	0.0	0.565	1.0000	S-REG8	-	OK
DS	R8S14.1.0	FIRST	0.0	0.069	1.0000	S-REG8	-	OK
DS	R8S14.1.0	FIRST	0.0	0.151	1.0000	S-REG8	-	OK
DS	R8S14.1.0	FIRST	0.0	0.565	1.0000	S-REG8	-	OK
DS	R8S15.1.0-1	FIRST	0.0	0.038	1.0000	S-REG8	-	OK
DS	R8S15.1.0-1	FIRST	0.0	0.034	1.0000	S-REG8	-	OK
DS	R8S15.1.0-1	FIRST	0.0	0.264	1.0000	S-REG8	-	OK
DS	R8S15.1.0	FIRST	0.0	0.010	1.0000	S-REG8	-	OK
DS	R8S15.1.0	FIRST	0.0	-0.009	1.0000	S-REG8	-	OK
DS	R8S15.1.0	FIRST	0.0	0.229	1.0000	S-REG8	-	OK
DS	R8S16.1.0	FIRST	0.0	0.030	1.0000	S-REG8	-	OK
DS	R8S16.1.0	FIRST	0.0	0.010	1.0000	S-REG8	-	OK
DS	R8S16.1.0	FIRST	0.0	0.209	1.0000	S-REG8	-	OK
DS	R8S1-2.0.0	FIRST	0.0	0.170	1.0000	S-REG8	PB2PT	OK
DS	R8S1-2.0.0	FIRST	0.0	0.280	1.0000	S-REG8	PB2PT	OK
DS	R8S1-2.0.0	FIRST	0.0	0.397	1.0000	S-REG8	PB2PT	OK
DS	R8S1-2.0.0	INT1	0.0	0.444	1.0000	S-REG8	PB2PT	OK
DS	R8S1-2.0.0	INT1	0.0	0.444	1.0000	S-REG8	PB2PT	OK
DS	R8S1-2.0.0	INT1	0.0	0.768	1.0000	S-REG8	PB2PT	OK
DS	R8S2-3.1.0	FIRST	-0.7	0.409	1.0000	S-REG8	PB3ST	OK
DS	R8S2-3.1.0	FIRST	-2.0	0.795	1.0000	S-REG8	PB3ST	OK
DS	R8S2-3.1.0	FIRST	-3.1	1.330	1.0000	S-REG8	PB3ST	OK
DS	R8S2-3.1.0	INT1	-3.1	1.330	1.0000	S-REG8	PB3ST	OK
DS	R8S2-3.1.0	INT1	-3.1	1.330	1.0000	S-REG8	PB3ST	OK
DS	R8S2-3.1.0	INT1	-3.1	1.327	1.0000	S-REG8	PB3ST	OK
DS	R8S2-3.1.0	INT2	-3.1	1.096	1.0000	S-REG8	PB3ST	OK
DS	R8S2-3.1.0	INT2	-3.1	1.096	1.0000	S-REG8	PB3ST	OK
DS	R8S3-4.1.0-1	FIRST	-1.3	0.588	1.0000	S-REG8	PB2ST	OK
DS	R8S3-4.1.0-1	FIRST	-3.2	0.846	1.0000	S-REG8	PB2ST	OK
DS	R8S3-4.1.0-1	FIRST	-3.0	1.319	1.0000	S-REG8	PB2ST	OK
DS	R8S3-4.1.0-1	INT1	-3.0	1.319	1.0000	S-REG8	PB2ST	OK
DS	R8S3-4.1.0-1	INT1	-3.0	1.319	1.0000	S-REG8	PB2ST	OK
DS	R8S3-4.1.0-1	INT1	-3.0	1.319	1.0000	S-REG8	PB2ST	OK

INIT	DAM	STAGE	HEEL degree	MINGM m	SFACSOL	DCRI	FLUNOP	STAT
DS	R8S3-4.1.0-1	INT2	-3.0	1.245	1.0000	S-REG8	PB2ST	OK
DS	R8S3-4.1.0-1	INT2	-3.0	1.245	1.0000	S-REG8	PB2ST	OK
DS	R8S3-4.1.0	FIRST	-1.2	0.580	1.0000	S-REG8	PB2ST	OK
DS	R8S3-4.1.0	FIRST	-3.1	0.881	1.0000	S-REG8	PB2ST	OK
DS	R8S3-4.1.0	FIRST	-3.0	1.276	1.0000	S-REG8	PB2ST	OK
DS	R8S3-4.1.0	INT1	-3.0	1.276	1.0000	S-REG8	PB2ST	OK
DS	R8S3-4.1.0	INT1	-3.0	1.276	1.0000	S-REG8	PB2ST	OK
DS	R8S3-4.1.0	INT1	-3.0	1.276	1.0000	S-REG8	PB2ST	OK
DS	R8S3-4.1.0	INT2	-3.0	1.198	1.0000	S-REG8	PB2ST	OK
DS	R8S3-4.1.0	INT2	-3.0	1.198	1.0000	S-REG8	PB2ST	OK
DS	R8S4-5.1.0-1	FIRST	-0.3	0.791	1.0000	S-REG8	PB3ST	OK
DS	R8S4-5.1.0-1	FIRST	-1.1	0.811	1.0000	S-REG8	PB3ST	OK
DS	R8S4-5.1.0-2	FIRST	-0.3	0.799	1.0000	S-REG8	PB3ST	OK
DS	R8S4-5.1.0-2	FIRST	-1.1	0.795	1.0000	S-REG8	PB3ST	OK
DS	R8S4-5.1.0	FIRST	-0.2	0.756	1.0000	S-REG8	PB3ST	OK
DS	R8S4-5.1.0	FIRST	-1.0	0.815	1.0000	S-REG8	PB3ST	OK
DS	R8S5-6.1.0-1	FIRST	0.0	0.799	1.0000	S-REG8	PB4PT	OK
DS	R8S5-6.1.0-1	FIRST	0.0	0.905	1.0000	S-REG8	PB4PT	OK
DS	R8S5-6.1.0-1	FIRST	0.0	1.288	1.0000	S-REG8	PB4PT	OK
DS	R8S5-6.1.0	FIRST	0.0	0.799	1.0000	S-REG8	PB4PT	OK
DS	R8S5-6.1.0	FIRST	0.0	0.745	1.0000	S-REG8	PB4PT	OK
DS	R8S6-7.1.0-1	FIRST	0.0	0.823	1.0000	S-REG8	PB6PT	OK
DS	R8S6-7.1.0-1	FIRST	0.0	0.913	1.0000	S-REG8	PB6PT	OK
DS	R8S6-7.1.0-1	FIRST	0.0	1.077	1.0000	S-REG8	PB6PT	OK
DS	R8S6-7.1.0	FIRST	0.0	0.819	1.0000	S-REG8	PB6PT	OK
DS	R8S6-7.1.0	FIRST	0.0	0.752	1.0000	S-REG8	PB6PT	OK
DS	R8S6-7.1.0	FIRST	0.0	0.721	1.0000	S-REG8	PB6PT	OK
DS	R8S7-8.1.0-1	FIRST	0.9	0.944	1.0000	S-REG8	PB6PT	OK
DS	R8S7-8.1.0-1	FIRST	1.1	0.948	1.0000	S-REG8	PB6PT	OK
DS	R8S7-8.1.0-1	FIRST	0.0	1.354	1.0000	S-REG8	PB6PT	OK
DS	R8S7-8.1.0	FIRST	0.7	1.018	1.0000	S-REG8	PB6PT	OK
DS	R8S7-8.1.0	FIRST	0.0	0.940	1.0000	S-REG8	PB6PT	OK
DS	R8S8-9.1.0-1	FIRST	1.9	1.186	1.0000	S-REG8	PB9PT	OK
DS	R8S8-9.1.0-1	FIRST	4.2	1.323	1.0000	S-REG8	PB9PT	OK
DS	R8S8-9.1.0-1	FIRST	0.0	1.522	1.0000	S-REG8	PB9PT	OK
DS	R8S8-9.1.0	FIRST	-3.8	1.330	1.0000	S-REG8	PB9ST	OK
DS	R8S8-9.1.0	FIRST	-5.8	1.506	1.0000	S-REG8	PB9ST	OK
DS	R8S8-9.1.0	FIRST	-1.4	1.291	1.0000	S-REG8	PB9ST	OK
DS	R8S8-9.1.0	CROSS	0.0	1.104	1.0000	S-REG8	PB9PT	OK
DS	R8S8-9.1.0	CROSS	0.0	1.104	1.0000	S-REG8	PB9PT	OK
DS	R8S8-9.1.0	CROSS	0.0	1.350	1.0000	S-REG8	PB9PT	OK
DS	R8S9-10.1.0-1	FIRST	2.6	1.299	1.0000	S-REG8	PB10PT	OK
DS	R8S9-10.1.0-1	FIRST	6.3	1.541	1.0000	S-REG8	PB10PT	OK
DS	R8S9-10.1.0	FIRST	-4.4	1.389	1.0000	S-REG8	PB10ST	OK
DS	R8S9-10.1.0	FIRST	-7.7	1.741	1.0000	S-REG8	PB10ST	OK
DS	R8S9-10.1.0	FIRST	-1.6	1.580	1.0000	S-REG8	PB10ST	OK
DS	R8S9-10.1.0	CROSS	0.0	1.381	1.0000	S-REG8	PB10PT	OK
DS	R8S9-10.1.0	CROSS	0.0	1.381	1.0000	S-REG8	PB10PT	OK
DS	R8S10-11.1.0-1	FIRST	-1.7	0.674	1.0000	S-REG8	PB9ST	OK
DS	R8S10-11.1.0-1	FIRST	-3.9	0.940	1.0000	S-REG8	PB9ST	OK
DS	R8S10-11.1.0	FIRST	-1.6	0.678	1.0000	S-REG8	PB9ST	OK
DS	R8S10-11.1.0	FIRST	-3.8	0.959	1.0000	S-REG8	PB9ST	OK
DS	R8S11-12.1.0-1	FIRST	-1.0	0.569	1.0000	S-REG8	PB12ST	OK
DS	R8S11-12.1.0-1	FIRST	-2.6	1.170	1.0000	S-REG8	PB12ST	OK

INIT	DAM	STAGE	HEEL degree	MINGM m	SFACSOL	DCRI	FLUNOP	STAT
DS	R8S11-12.1.0-1	FIRST	-6.2	1.928	1.0000	S-REG8	PB12ST	OK
DS	R8S11-12.1.0-1	CROSS	-4.9	1.768	1.0000	S-REG8	PB12ST	OK
DS	R8S11-12.1.0-1	CROSS	-2.9	1.549	1.0000	S-REG8	PB12ST	OK
DS	R8S11-12.1.0-2	FIRST	-0.5	0.518	1.0000	S-REG8	PB12ST	OK
DS	R8S11-12.1.0-2	FIRST	-1.1	1.002	1.0000	S-REG8	PB12ST	OK
DS	R8S11-12.1.0	FIRST	-1.0	0.569	1.0000	S-REG8	PB12ST	OK
DS	R8S11-12.1.0	FIRST	-2.6	1.170	1.0000	S-REG8	PB12ST	OK
DS	R8S11-12.1.0	FIRST	-6.2	1.928	1.0000	S-REG8	PB12ST	OK
DS	R8S11-12.1.0	CROSS	-4.9	1.768	1.0000	S-REG8	PB12ST	OK
DS	R8S11-12.1.0	CROSS	-2.9	1.549	1.0000	S-REG8	PB12ST	OK
DS	R8S12-13.1.0-1	FIRST	0.0	0.635	1.0000	S-REG8	-	OK
DS	R8S12-13.1.0-1	FIRST	0.0	1.123	1.0000	S-REG8	-	OK
DS	R8S12-13.1.0-1	FIRST	0.0	1.760	1.0000	S-REG8	-	OK
DS	R8S12-13.1.0	FIRST	-0.8	0.733	1.0000	S-REG8	-	OK
DS	R8S12-13.1.0	FIRST	-2.0	1.330	1.0000	S-REG8	-	OK
DS	R8S12-13.1.0	FIRST	-3.0	1.612	1.0000	S-REG8	-	OK
DS	R8S12-13.1.0	CROSS	-1.3	1.444	1.0000	S-REG8	-	OK
DS	R8S12-13.1.0	CROSS	0.0	1.284	1.0000	S-REG8	-	OK
DS	R8S12-13.1.0	CROSS	0.0	1.549	1.0000	S-REG8	-	OK
DS	R8S13-14.1.0-1	FIRST	0.0	0.377	1.0000	S-REG8	PB12PT	OK
DS	R8S13-14.1.0-1	FIRST	0.0	0.553	1.0000	S-REG8	PB12PT	OK
DS	R8S13-14.1.0-2	FIRST	0.0	0.334	1.0000	S-REG8	PB12PT	OK
DS	R8S13-14.1.0-2	FIRST	0.0	0.670	1.0000	S-REG8	PB12PT	OK
DS	R8S13-14.1.0	FIRST	0.0	0.377	1.0000	S-REG8	PB12PT	OK
DS	R8S13-14.1.0	FIRST	0.0	0.553	1.0000	S-REG8	PB12PT	OK
DS	R8S14-15.1.0-1	FIRST	0.0	0.022	1.0000	S-REG8	-	OK
DS	R8S14-15.1.0-1	FIRST	0.0	0.096	1.0000	S-REG8	-	OK
DS	R8S14-15.1.0-1	FIRST	0.0	0.616	1.0000	S-REG8	-	OK
DS	R8S14-15.1.0-2	FIRST	0.0	0.065	1.0000	S-REG8	-	OK
DS	R8S14-15.1.0-2	FIRST	0.0	0.143	1.0000	S-REG8	-	OK
DS	R8S14-15.1.0-2	FIRST	0.0	0.639	1.0000	S-REG8	-	OK
DS	R8S14-15.1.0	FIRST	0.0	0.022	1.0000	S-REG8	-	OK
DS	R8S14-15.1.0	FIRST	0.0	0.096	1.0000	S-REG8	-	OK
DS	R8S14-15.1.0	FIRST	0.0	0.616	1.0000	S-REG8	-	OK
DS	R8S15-16.1.0-1	FIRST	0.0	0.006	1.0000	S-REG8	-	OK
DS	R8S15-16.1.0-1	FIRST	0.0	-0.021	1.0000	S-REG8	-	OK
DS	R8S15-16.1.0-1	FIRST	0.0	0.213	1.0000	S-REG8	-	OK
DS	R8S15-16.1.0	FIRST	0.0	-0.017	1.0000	S-REG8	-	OK
DS	R8S15-16.1.0	FIRST	0.0	-0.060	1.0000	S-REG8	-	OK
DS	R8S15-16.1.0	FIRST	0.0	0.178	1.0000	S-REG8	-	OK

13.2 Results for DP

RESULTS

INIT	DAM	STAGE	HEEL degree	MINGM m	SFACSOL	DCRI	FLUNOP	STAT
DP	R8P11-12.1.0-1	CROSS	3.5	2.093	0.9468	S-REG8	PB12PT	OK
DP	R8P11-12.1.0	CROSS	3.5	2.093	0.9468	S-REG8	PB12PT	OK
DP	R8S11-12.1.0-1	CROSS	-3.5	2.093	0.9468	S-REG8	PB12ST	OK
DP	R8S11-12.1.0	CROSS	-3.5	2.093	0.9468	S-REG8	PB12ST	OK
DP	R8P2-3.1.0	INT2	3.5	1.913	0.9530	S-REG8	PB3PT	OK
DP	R8P11-12.1.0-2	FIRST	4.0	2.066	0.9553	S-REG8	PB12PT	OK
DP	R8S11-12.1.0-2	FIRST	-4.0	2.066	0.9553	S-REG8	PB12ST	OK
DP	R8S2-3.1.0	INT2	-3.4	1.878	0.9558	S-REG8	PB3ST	OK
DP	R8S3-4.1.0	INT2	-3.1	1.683	0.9557	S-REG8	PB2ST	OK
DP	R8P3-4.1.0	INT2	3.1	1.663	0.9570	S-REG8	PB2PT	OK
DP	R8S3-4.1.0-1	INT2	-3.2	1.691	0.9604	S-REG8	PB2ST	OK
DP	R8P3-4.1.0-1	INT2	3.2	1.671	0.9617	S-REG8	PB2PT	OK
DP	R8P13-14.1.0-1	FIRST	0.0	1.406	0.9627	S-REG8	PB12PT	OK
DP	R8P13-14.1.0	FIRST	0.0	1.406	0.9627	S-REG8	PB12PT	OK
DP	R8S13-14.1.0-1	FIRST	0.0	1.406	0.9627	S-REG8	PB12PT	OK
DP	R8S13-14.1.0	FIRST	0.0	1.406	0.9627	S-REG8	PB12PT	OK
DP	R8P10-11.1.0-1	FIRST	4.4	2.128	0.9654	S-REG8	PB9PT	OK
DP	R8S10-11.1.0-1	FIRST	-4.4	2.128	0.9654	S-REG8	PB9ST	OK
DP	R8P10-11.1.0	FIRST	4.3	2.089	0.9657	S-REG8	PB9PT	OK
DP	R8S10-11.1.0	FIRST	-4.3	2.089	0.9657	S-REG8	PB9ST	OK
DP	R8P13-14.1.0-2	FIRST	0.0	1.464	0.9811	S-REG8	PB12PT	OK
DP	R8S13-14.1.0-2	FIRST	0.0	1.464	0.9811	S-REG8	PB12PT	OK
DP	R8S4-5.1.0	FIRST	-0.8	0.991	0.9827	S-REG8	PB3ST	OK
DP	R8P4-5.1.0	FIRST	0.7	0.968	0.9849	S-REG8	PB3PT	OK
DP	R8S4-5.1.0-1	FIRST	-0.8	1.128	0.9917	S-REG8	PB3ST	OK
DP	R8P4-5.1.0-1	FIRST	0.7	1.113	0.9936	S-REG8	PB3PT	OK
DP	R8S4-5.1.0-2	FIRST	-0.8	1.187	0.9961	S-REG8	PB3ST	OK
DP	R8P4-5.1.0-2	FIRST	0.7	1.171	0.9980	S-REG8	PB3PT	OK
DP	R8P5-6.1.0	FIRST	0.0	0.964	0.9988	S-REG8	PB4PT	OK
DP	R8S5-6.1.0	FIRST	0.0	0.964	0.9988	S-REG8	PB4PT	OK
DP	R8P3.1.0	INT2	2.4	1.066	0.9997	S-REG8	PB2PT	OK
DP	R8P1.1.0	FIRST	0.0	0.034	1.0000	S-REG8	-	OK
DP	R8P1.1.0	FIRST	0.0	0.023	1.0000	S-REG8	-	OK
DP	R8P1.1.0	FIRST	0.0	0.359	1.0000	S-REG8	-	OK
DP	R8P2.1.0	FIRST	0.0	0.179	1.0000	S-REG8	PB2PT	OK
DP	R8P2.1.0	FIRST	0.0	0.284	1.0000	S-REG8	PB2PT	OK
DP	R8P2.1.0	FIRST	0.0	0.452	1.0000	S-REG8	PB2PT	OK
DP	R8P2.1.0	INT2	0.0	0.347	1.0000	S-REG8	PB2PT	OK
DP	R8P2.1.0	INT2	0.0	0.347	1.0000	S-REG8	PB2PT	OK
DP	R8P2.1.0	INT2	0.0	0.663	1.0000	S-REG8	PB2PT	OK
DP	R8P3.1.0	FIRST	0.8	0.226	1.0000	S-REG8	PB2PT	OK
DP	R8P3.1.0	FIRST	1.7	0.363	1.0000	S-REG8	PB2PT	OK
DP	R8P3.1.0	FIRST	2.4	0.687	1.0000	S-REG8	PB2PT	OK
DP	R8P3.1.0	INT1	2.4	0.616	1.0000	S-REG8	PB2PT	OK
DP	R8P3.1.0	INT1	2.4	0.616	1.0000	S-REG8	PB2PT	OK
DP	R8P3.1.0	INT1	2.4	0.687	1.0000	S-REG8	PB2PT	OK
DP	R8P3.1.0	INT2	2.4	0.628	1.0000	S-REG8	PB2PT	OK
DP	R8P3.1.0	INT2	2.4	0.628	1.0000	S-REG8	PB2PT	OK
DP	R8P4.1.0-1	FIRST	0.0	0.312	1.0000	S-REG8	PB4PT	OK
DP	R8P4.1.0-1	FIRST	0.0	0.523	1.0000	S-REG8	PB3PT	OK
DP	R8P4.1.0-1	FIRST	0.3	0.784	1.0000	S-REG8	PB3PT	OK

INIT	DAM	STAGE	HEEL degree	MINGM m	SFACSOL	DCRI	FLUNOP	STAT
DP	R8P4.1.0	FIRST	0.0	0.304	1.0000	S-REG8	PB3PT	OK
DP	R8P4.1.0	FIRST	0.0	0.472	1.0000	S-REG8	PB3PT	OK
DP	R8P4.1.0	FIRST	0.3	0.722	1.0000	S-REG8	PB3PT	OK
DP	R8P5.1.0-1	FIRST	0.0	0.398	1.0000	S-REG8	PB4PT	OK
DP	R8P5.1.0-1	FIRST	0.0	0.284	1.0000	S-REG8	PB4PT	OK
DP	R8P5.1.0-1	FIRST	0.0	0.652	1.0000	S-REG8	PB4PT	OK
DP	R8P5.1.0	FIRST	0.0	0.386	1.0000	S-REG8	PB4PT	OK
DP	R8P5.1.0	FIRST	0.0	0.238	1.0000	S-REG8	PB4PT	OK
DP	R8P5.1.0	FIRST	0.0	0.503	1.0000	S-REG8	PB4PT	OK
DP	R8P6.1.0-1	FIRST	0.0	0.331	1.0000	S-REG8	PB7PT	OK
DP	R8P6.1.0-1	FIRST	0.0	0.546	1.0000	S-REG8	PB4PT	OK
DP	R8P6.1.0-1	FIRST	0.0	1.027	1.0000	S-REG8	PB4PT	OK
DP	R8P6.1.0	FIRST	0.0	0.406	1.0000	S-REG8	PB4PT	OK
DP	R8P6.1.0	FIRST	0.0	0.394	1.0000	S-REG8	PB4PT	OK
DP	R8P6.1.0	FIRST	0.0	0.699	1.0000	S-REG8	PB4PT	OK
DP	R8P7.1.0-1	FIRST	0.0	0.421	1.0000	S-REG8	PB7PT	OK
DP	R8P7.1.0-1	FIRST	0.0	0.296	1.0000	S-REG8	PB6PT	OK
DP	R8P7.1.0-1	FIRST	0.0	0.738	1.0000	S-REG8	PB6PT	OK
DP	R8P7.1.0	FIRST	0.0	0.456	1.0000	S-REG8	PB6PT	OK
DP	R8P7.1.0	FIRST	0.0	0.234	1.0000	S-REG8	PB6PT	OK
DP	R8P7.1.0	FIRST	0.0	0.527	1.0000	S-REG8	PB6PT	OK
DP	R8P8.1.0-1	FIRST	0.0	0.433	1.0000	S-REG8	PB8PT	OK
DP	R8P8.1.0-1	FIRST	0.0	0.382	1.0000	S-REG8	PB8PT	OK
DP	R8P8.1.0-1	FIRST	0.0	0.894	1.0000	S-REG8	PB8PT	OK
DP	R8P8.1.0	FIRST	0.0	0.480	1.0000	S-REG8	PB8PT	OK
DP	R8P8.1.0	FIRST	0.0	0.378	1.0000	S-REG8	PB8PT	OK
DP	R8P8.1.0	FIRST	0.0	0.796	1.0000	S-REG8	PB7PT	OK
DP	R8P9.1.0-1	FIRST	0.0	0.609	1.0000	S-REG8	PB9PT	OK
DP	R8P9.1.0-1	FIRST	0.0	0.534	1.0000	S-REG8	PB9PT	OK
DP	R8P9.1.0-1	FIRST	0.0	0.956	1.0000	S-REG8	PB9PT	OK
DP	R8P9.1.0	FIRST	1.8	0.683	1.0000	S-REG8	PB9PT	OK
DP	R8P9.1.0	FIRST	2.3	0.687	1.0000	S-REG8	PB9PT	OK
DP	R8P9.1.0	FIRST	1.2	0.820	1.0000	S-REG8	PB9PT	OK
DP	R8P9.1.0	CROSS	0.0	0.644	1.0000	S-REG8	PB9PT	OK
DP	R8P9.1.0	CROSS	0.0	0.644	1.0000	S-REG8	PB9PT	OK
DP	R8P9.1.0	CROSS	0.0	0.878	1.0000	S-REG8	PB9PT	OK
DP	R8P10.1.0-1	FIRST	0.0	0.507	1.0000	S-REG8	PB10PT	OK
DP	R8P10.1.0-1	FIRST	0.0	0.484	1.0000	S-REG8	PB10PT	OK
DP	R8P10.1.0-1	FIRST	0.0	1.124	1.0000	S-REG8	PB10PT	OK
DP	R8P10.1.0	FIRST	0.0	0.511	1.0000	S-REG8	PB10PT	OK
DP	R8P10.1.0	FIRST	0.0	0.488	1.0000	S-REG8	PB10PT	OK
DP	R8P10.1.0	FIRST	0.0	1.062	1.0000	S-REG8	PB10PT	OK
DP	R8P11.1.0-1	FIRST	0.6	0.140	1.0000	S-REG8	PB10PT	OK
DP	R8P11.1.0-1	FIRST	1.2	0.226	1.0000	S-REG8	PB10PT	OK
DP	R8P11.1.0-1	FIRST	2.0	1.031	1.0000	S-REG8	PB10PT	OK
DP	R8P11.1.0	FIRST	0.6	0.140	1.0000	S-REG8	PB10PT	OK
DP	R8P11.1.0	FIRST	1.2	0.226	1.0000	S-REG8	PB10PT	OK
DP	R8P11.1.0	FIRST	2.0	1.031	1.0000	S-REG8	PB10PT	OK
DP	R8P12.1.0-1	FIRST	0.0	0.366	1.0000	S-REG8	PB12PT	OK
DP	R8P12.1.0-1	FIRST	0.0	0.601	1.0000	S-REG8	PB12PT	OK
DP	R8P12.1.0-1	FIRST	0.0	0.980	1.0000	S-REG8	PB12PT	OK
DP	R8P12.1.0	FIRST	0.6	0.413	1.0000	S-REG8	PB12PT	OK
DP	R8P12.1.0	FIRST	1.3	0.718	1.0000	S-REG8	PB12PT	OK
DP	R8P12.1.0	FIRST	2.2	0.929	1.0000	S-REG8	PB12PT	OK

INIT	DAM	STAGE	HEEL degree	MINGM m	SFACSOL	DCRI	FLUNOP	STAT
DP	R8P12.1.0	CROSS	1.2	0.788	1.0000	S-REG8	PB12PT	OK
DP	R8P12.1.0	CROSS	0.0	0.577	1.0000	S-REG8	PB12PT	OK
DP	R8P12.1.0	CROSS	0.0	0.808	1.0000	S-REG8	PB12PT	OK
DP	R8P13.1.0-1	FIRST	0.0	0.308	1.0000	S-REG8	PB12PT	OK
DP	R8P13.1.0-1	FIRST	0.0	0.527	1.0000	S-REG8	PB12PT	OK
DP	R8P13.1.0-1	FIRST	0.0	0.976	1.0000	S-REG8	PB12PT	OK
DP	R8P13.1.0	FIRST	0.0	0.347	1.0000	S-REG8	PB12PT	OK
DP	R8P13.1.0	FIRST	0.0	0.550	1.0000	S-REG8	PB12PT	OK
DP	R8P13.1.0	FIRST	0.0	0.851	1.0000	S-REG8	PB12PT	OK
DP	R8P14.1.0-1	FIRST	0.0	0.070	1.0000	S-REG8	-	OK
DP	R8P14.1.0-1	FIRST	0.0	0.140	1.0000	S-REG8	-	OK
DP	R8P14.1.0-1	FIRST	0.0	0.558	1.0000	S-REG8	-	OK
DP	R8P14.1.0	FIRST	0.0	0.070	1.0000	S-REG8	-	OK
DP	R8P14.1.0	FIRST	0.0	0.140	1.0000	S-REG8	-	OK
DP	R8P14.1.0	FIRST	0.0	0.558	1.0000	S-REG8	-	OK
DP	R8P15.1.0-1	FIRST	0.0	0.038	1.0000	S-REG8	-	OK
DP	R8P15.1.0-1	FIRST	0.0	0.034	1.0000	S-REG8	-	OK
DP	R8P15.1.0-1	FIRST	0.0	0.265	1.0000	S-REG8	-	OK
DP	R8P15.1.0	FIRST	0.0	0.007	1.0000	S-REG8	-	OK
DP	R8P15.1.0	FIRST	0.0	-0.009	1.0000	S-REG8	-	OK
DP	R8P15.1.0	FIRST	0.0	0.226	1.0000	S-REG8	-	OK
DP	R8P16.1.0	FIRST	0.0	0.031	1.0000	S-REG8	-	OK
DP	R8P16.1.0	FIRST	0.0	0.007	1.0000	S-REG8	-	OK
DP	R8P16.1.0	FIRST	0.0	0.210	1.0000	S-REG8	-	OK
DP	R8P1-2.0.0	FIRST	0.0	0.159	1.0000	S-REG8	PB2PT	OK
DP	R8P1-2.0.0	FIRST	0.0	0.261	1.0000	S-REG8	PB2PT	OK
DP	R8P1-2.0.0	FIRST	0.0	0.613	1.0000	S-REG8	PB2PT	OK
DP	R8P1-2.0.0	INT2	0.0	0.491	1.0000	S-REG8	PB2PT	OK
DP	R8P1-2.0.0	INT2	0.0	0.491	1.0000	S-REG8	PB2PT	OK
DP	R8P1-2.0.0	INT2	0.0	0.835	1.0000	S-REG8	PB2PT	OK
DP	R8P2-3.1.0	FIRST	0.7	0.363	1.0000	S-REG8	PB3PT	OK
DP	R8P2-3.1.0	FIRST	2.0	0.687	1.0000	S-REG8	PB3PT	OK
DP	R8P2-3.1.0	FIRST	3.5	1.284	1.0000	S-REG8	PB3PT	OK
DP	R8P2-3.1.0	INT1	3.5	1.058	1.0000	S-REG8	PB3PT	OK
DP	R8P2-3.1.0	INT1	3.5	1.058	1.0000	S-REG8	PB3PT	OK
DP	R8P2-3.1.0	INT1	3.5	1.284	1.0000	S-REG8	PB3PT	OK
DP	R8P2-3.1.0	INT2	3.5	1.074	1.0000	S-REG8	PB3PT	OK
DP	R8P2-3.1.0	INT2	3.5	1.074	1.0000	S-REG8	PB3PT	OK
DP	R8P3-4.1.0-1	FIRST	1.1	0.534	1.0000	S-REG8	PB2PT	OK
DP	R8P3-4.1.0-1	FIRST	2.7	0.949	1.0000	S-REG8	PB2PT	OK
DP	R8P3-4.1.0-1	FIRST	3.2	1.257	1.0000	S-REG8	PB2PT	OK
DP	R8P3-4.1.0-1	INT1	3.2	1.171	1.0000	S-REG8	PB2PT	OK
DP	R8P3-4.1.0-1	INT1	3.2	1.171	1.0000	S-REG8	PB2PT	OK
DP	R8P3-4.1.0-1	INT1	3.2	1.257	1.0000	S-REG8	PB2PT	OK
DP	R8P3-4.1.0-1	INT2	3.2	1.187	1.0000	S-REG8	PB2PT	OK
DP	R8P3-4.1.0-1	INT2	3.2	1.187	1.0000	S-REG8	PB2PT	OK
DP	R8P3-4.1.0	FIRST	1.0	0.527	1.0000	S-REG8	PB2PT	OK
DP	R8P3-4.1.0	FIRST	2.6	0.921	1.0000	S-REG8	PB2PT	OK
DP	R8P3-4.1.0	FIRST	3.1	1.210	1.0000	S-REG8	PB2PT	OK
DP	R8P3-4.1.0	INT1	3.1	1.120	1.0000	S-REG8	PB2PT	OK
DP	R8P3-4.1.0	INT1	3.1	1.120	1.0000	S-REG8	PB2PT	OK
DP	R8P3-4.1.0	INT1	3.1	1.210	1.0000	S-REG8	PB2PT	OK
DP	R8P3-4.1.0	INT2	3.1	1.136	1.0000	S-REG8	PB2PT	OK
DP	R8P3-4.1.0	INT2	3.1	1.136	1.0000	S-REG8	PB2PT	OK

INIT	DAM	STAGE	HEEL degree	MINGM m	SFACSOL	DCRI	FLUNOP	STAT
DP	R8P4-5.1.0-1	FIRST	0.0	0.741	1.0000	S-REG8	PB3PT	OK
DP	R8P4-5.1.0-1	FIRST	0.0	0.855	1.0000	S-REG8	PB3PT	OK
DP	R8P4-5.1.0-2	FIRST	0.0	0.741	1.0000	S-REG8	PB3PT	OK
DP	R8P4-5.1.0-2	FIRST	0.0	0.878	1.0000	S-REG8	PB3PT	OK
DP	R8P4-5.1.0	FIRST	0.0	0.710	1.0000	S-REG8	PB3PT	OK
DP	R8P4-5.1.0	FIRST	0.0	0.784	1.0000	S-REG8	PB3PT	OK
DP	R8P5-6.1.0-1	FIRST	0.0	0.753	1.0000	S-REG8	PB4PT	OK
DP	R8P5-6.1.0-1	FIRST	0.0	0.870	1.0000	S-REG8	PB4PT	OK
DP	R8P5-6.1.0-1	FIRST	0.0	1.296	1.0000	S-REG8	PB4PT	OK
DP	R8P5-6.1.0	FIRST	0.0	0.769	1.0000	S-REG8	PB4PT	OK
DP	R8P5-6.1.0	FIRST	0.0	0.710	1.0000	S-REG8	PB4PT	OK
DP	R8P6-7.1.0-1	FIRST	0.0	0.777	1.0000	S-REG8	PB4PT	OK
DP	R8P6-7.1.0-1	FIRST	0.0	0.886	1.0000	S-REG8	PB4PT	OK
DP	R8P6-7.1.0-1	FIRST	0.0	1.312	1.0000	S-REG8	PB4PT	OK
DP	R8P6-7.1.0	FIRST	0.0	0.788	1.0000	S-REG8	PB4PT	OK
DP	R8P6-7.1.0	FIRST	0.0	0.726	1.0000	S-REG8	PB4PT	OK
DP	R8P6-7.1.0	FIRST	0.0	0.976	1.0000	S-REG8	PB4PT	OK
DP	R8P7-8.1.0-1	FIRST	0.0	0.863	1.0000	S-REG8	PB6PT	OK
DP	R8P7-8.1.0-1	FIRST	1.5	0.804	1.0000	S-REG8	PB6PT	OK
DP	R8P7-8.1.0-1	FIRST	0.0	1.378	1.0000	S-REG8	PB6PT	OK
DP	R8P7-8.1.0	FIRST	0.0	0.941	1.0000	S-REG8	PB6PT	OK
DP	R8P7-8.1.0	FIRST	1.0	0.788	1.0000	S-REG8	PB6PT	OK
DP	R8P7-8.1.0	FIRST	0.0	1.085	1.0000	S-REG8	PB6PT	OK
DP	R8P8-9.1.0-1	FIRST	1.2	1.077	1.0000	S-REG8	PB9PT	OK
DP	R8P8-9.1.0-1	FIRST	3.5	1.113	1.0000	S-REG8	PB9PT	OK
DP	R8P8-9.1.0-1	FIRST	0.0	1.574	1.0000	S-REG8	PB9PT	OK
DP	R8P8-9.1.0	FIRST	3.4	1.218	1.0000	S-REG8	PB9PT	OK
DP	R8P8-9.1.0	FIRST	5.3	1.288	1.0000	S-REG8	PB9PT	OK
DP	R8P8-9.1.0	FIRST	1.6	1.331	1.0000	S-REG8	PB9PT	OK
DP	R8P8-9.1.0	CROSS	0.0	1.148	1.0000	S-REG8	PB9PT	OK
DP	R8P8-9.1.0	CROSS	0.0	1.148	1.0000	S-REG8	PB9PT	OK
DP	R8P8-9.1.0	CROSS	0.0	1.398	1.0000	S-REG8	PB9PT	OK
DP	R8P9-10.1.0-1	FIRST	1.7	1.179	1.0000	S-REG8	PB10PT	OK
DP	R8P9-10.1.0-1	FIRST	5.4	1.300	1.0000	S-REG8	PB10PT	OK
DP	R8P9-10.1.0-1	FIRST	0.0	1.824	1.0000	S-REG8	PB10PT	OK
DP	R8P9-10.1.0	FIRST	3.9	1.265	1.0000	S-REG8	PB10PT	OK
DP	R8P9-10.1.0	FIRST	7.2	1.491	1.0000	S-REG8	PB10PT	OK
DP	R8P9-10.1.0	FIRST	2.0	1.632	1.0000	S-REG8	PB10PT	OK
DP	R8P9-10.1.0	CROSS	0.0	1.437	1.0000	S-REG8	PB10PT	OK
DP	R8P9-10.1.0	CROSS	0.0	1.437	1.0000	S-REG8	PB10PT	OK
DP	R8P9-10.1.0	CROSS	0.0	1.683	1.0000	S-REG8	PB10PT	OK
DP	R8P10-11.1.0-1	FIRST	1.3	0.593	1.0000	S-REG8	PB9PT	OK
DP	R8P10-11.1.0-1	FIRST	3.3	0.738	1.0000	S-REG8	PB9PT	OK
DP	R8P10-11.1.0	FIRST	1.2	0.597	1.0000	S-REG8	PB9PT	OK
DP	R8P10-11.1.0	FIRST	3.2	0.757	1.0000	S-REG8	PB9PT	OK
DP	R8P11-12.1.0-1	FIRST	1.1	0.519	1.0000	S-REG8	PB12PT	OK
DP	R8P11-12.1.0-1	FIRST	2.6	1.077	1.0000	S-REG8	PB12PT	OK
DP	R8P11-12.1.0-1	FIRST	6.7	1.874	1.0000	S-REG8	PB12PT	OK
DP	R8P11-12.1.0-1	CROSS	5.5	1.722	1.0000	S-REG8	PB12PT	OK
DP	R8P11-12.1.0-1	CROSS	3.5	1.499	1.0000	S-REG8	PB12PT	OK
DP	R8P11-12.1.0-2	FIRST	0.6	0.472	1.0000	S-REG8	PB12PT	OK
DP	R8P11-12.1.0-2	FIRST	1.2	0.913	1.0000	S-REG8	PB12PT	OK
DP	R8P11-12.1.0	FIRST	1.1	0.519	1.0000	S-REG8	PB12PT	OK
DP	R8P11-12.1.0	FIRST	2.6	1.077	1.0000	S-REG8	PB12PT	OK

INIT	DAM	STAGE	HEEL degree	MINGM m	SFACSOL	DCRI	FLUNOP	STAT
DP	R8P11-12.1.0	FIRST	6.7	1.874	1.0000	S-REG8	PB12PT	OK
DP	R8P11-12.1.0	CROSS	5.5	1.722	1.0000	S-REG8	PB12PT	OK
DP	R8P11-12.1.0	CROSS	3.5	1.499	1.0000	S-REG8	PB12PT	OK
DP	R8P12-13.1.0-1	FIRST	0.0	0.609	1.0000	S-REG8	-	OK
DP	R8P12-13.1.0-1	FIRST	0.0	1.097	1.0000	S-REG8	-	OK
DP	R8P12-13.1.0-1	FIRST	0.0	1.773	1.0000	S-REG8	-	OK
DP	R8P12-13.1.0	FIRST	0.9	0.726	1.0000	S-REG8	-	OK
DP	R8P12-13.1.0	FIRST	2.3	1.312	1.0000	S-REG8	-	OK
DP	R8P12-13.1.0	FIRST	3.4	1.609	1.0000	S-REG8	-	OK
DP	R8P12-13.1.0	CROSS	1.6	1.452	1.0000	S-REG8	-	OK
DP	R8P12-13.1.0	CROSS	0.0	1.281	1.0000	S-REG8	-	OK
DP	R8P12-13.1.0	CROSS	0.0	1.538	1.0000	S-REG8	-	OK
DP	R8P13-14.1.0-1	FIRST	0.0	0.359	1.0000	S-REG8	PB12PT	OK
DP	R8P13-14.1.0-1	FIRST	0.0	0.550	1.0000	S-REG8	PB12PT	OK
DP	R8P13-14.1.0-2	FIRST	0.0	0.324	1.0000	S-REG8	PB12PT	OK
DP	R8P13-14.1.0-2	FIRST	0.0	0.648	1.0000	S-REG8	PB12PT	OK
DP	R8P13-14.1.0	FIRST	0.0	0.359	1.0000	S-REG8	PB12PT	OK
DP	R8P13-14.1.0	FIRST	0.0	0.550	1.0000	S-REG8	PB12PT	OK
DP	R8P14-15.1.0-1	FIRST	0.0	0.023	1.0000	S-REG8	-	OK
DP	R8P14-15.1.0-1	FIRST	0.0	0.085	1.0000	S-REG8	-	OK
DP	R8P14-15.1.0-1	FIRST	0.0	0.601	1.0000	S-REG8	-	OK
DP	R8P14-15.1.0-2	FIRST	0.0	0.066	1.0000	S-REG8	-	OK
DP	R8P14-15.1.0-2	FIRST	0.0	0.136	1.0000	S-REG8	-	OK
DP	R8P14-15.1.0-2	FIRST	0.0	0.624	1.0000	S-REG8	-	OK
DP	R8P14-15.1.0	FIRST	0.0	0.023	1.0000	S-REG8	-	OK
DP	R8P14-15.1.0	FIRST	0.0	0.085	1.0000	S-REG8	-	OK
DP	R8P14-15.1.0	FIRST	0.0	0.601	1.0000	S-REG8	-	OK
DP	R8P15-16.1.0-1	FIRST	0.0	0.007	1.0000	S-REG8	-	OK
DP	R8P15-16.1.0-1	FIRST	0.0	-0.020	1.0000	S-REG8	-	OK
DP	R8P15-16.1.0-1	FIRST	0.0	0.210	1.0000	S-REG8	-	OK
DP	R8P15-16.1.0	FIRST	0.0	-0.016	1.0000	S-REG8	-	OK
DP	R8P15-16.1.0	FIRST	0.0	-0.059	1.0000	S-REG8	-	OK
DP	R8P15-16.1.0	FIRST	0.0	0.175	1.0000	S-REG8	-	OK
DP	R8S1.1.0	FIRST	0.0	0.034	1.0000	S-REG8	-	OK
DP	R8S1.1.0	FIRST	0.0	0.023	1.0000	S-REG8	-	OK
DP	R8S1.1.0	FIRST	0.0	0.304	1.0000	S-REG8	-	OK
DP	R8S2.1.0	FIRST	0.0	0.179	1.0000	S-REG8	PB2PT	OK
DP	R8S2.1.0	FIRST	0.0	0.281	1.0000	S-REG8	PB2PT	OK
DP	R8S2.1.0	FIRST	0.0	0.331	1.0000	S-REG8	PB2PT	OK
DP	R8S2.1.0	INT1	0.0	0.347	1.0000	S-REG8	PB2PT	OK
DP	R8S2.1.0	INT1	0.0	0.347	1.0000	S-REG8	PB2PT	OK
DP	R8S2.1.0	INT1	0.0	0.663	1.0000	S-REG8	PB2PT	OK
DP	R8S3.1.0	FIRST	-0.8	0.226	1.0000	S-REG8	PB2ST	OK
DP	R8S3.1.0	FIRST	-1.7	0.378	1.0000	S-REG8	PB2ST	OK
DP	R8S3.1.0	FIRST	-2.4	0.683	1.0000	S-REG8	PB2ST	OK
DP	R8S3.1.0	INT1	-2.4	0.683	1.0000	S-REG8	PB2ST	OK
DP	R8S3.1.0	INT1	-2.4	0.683	1.0000	S-REG8	PB2ST	OK
DP	R8S3.1.0	INT1	-2.4	0.683	1.0000	S-REG8	PB2ST	OK
DP	R8S3.1.0	INT2	-2.4	0.624	1.0000	S-REG8	PB2ST	OK
DP	R8S3.1.0	INT2	-2.4	0.624	1.0000	S-REG8	PB2ST	OK
DP	R8S3.1.0	INT2	-2.4	1.054	1.0000	S-REG8	PB2ST	OK
DP	R8S4.1.0-1	FIRST	-0.1	0.316	1.0000	S-REG8	PB4ST	OK
DP	R8S4.1.0-1	FIRST	-0.2	0.265	1.0000	S-REG8	PB3ST	OK
DP	R8S4.1.0-1	FIRST	-0.3	0.839	1.0000	S-REG8	PB3ST	OK

INIT	DAM	STAGE	HEEL degree	MINGM m	SFACSOL	DCRI	FLUNOP	STAT
DP	R8S4.1.0	FIRST	-0.0	0.304	1.0000	S-REG8	PB3ST	OK
DP	R8S4.1.0	FIRST	-0.2	0.284	1.0000	S-REG8	PB3ST	OK
DP	R8S4.1.0	FIRST	-0.3	0.781	1.0000	S-REG8	PB3ST	OK
DP	R8S5.1.0-1	FIRST	0.0	0.398	1.0000	S-REG8	PB4PT	OK
DP	R8S5.1.0-1	FIRST	0.0	0.284	1.0000	S-REG8	PB4PT	OK
DP	R8S5.1.0-1	FIRST	0.0	0.652	1.0000	S-REG8	PB4PT	OK
DP	R8S5.1.0	FIRST	0.0	0.386	1.0000	S-REG8	PB4PT	OK
DP	R8S5.1.0	FIRST	0.0	0.238	1.0000	S-REG8	PB4PT	OK
DP	R8S5.1.0	FIRST	0.0	0.503	1.0000	S-REG8	PB4PT	OK
DP	R8S6.1.0-1	FIRST	0.0	0.331	1.0000	S-REG8	PB7PT	OK
DP	R8S6.1.0-1	FIRST	0.0	0.546	1.0000	S-REG8	PB6PT	OK
DP	R8S6.1.0-1	FIRST	0.0	0.898	1.0000	S-REG8	PB6PT	OK
DP	R8S6.1.0	FIRST	0.0	0.406	1.0000	S-REG8	PB6PT	OK
DP	R8S6.1.0	FIRST	0.0	0.394	1.0000	S-REG8	PB6PT	OK
DP	R8S6.1.0	FIRST	0.0	0.546	1.0000	S-REG8	PB6PT	OK
DP	R8S7.1.0-1	FIRST	0.0	0.421	1.0000	S-REG8	PB7PT	OK
DP	R8S7.1.0-1	FIRST	0.0	0.296	1.0000	S-REG8	PB6PT	OK
DP	R8S7.1.0-1	FIRST	0.0	0.738	1.0000	S-REG8	PB6PT	OK
DP	R8S7.1.0	FIRST	0.0	0.456	1.0000	S-REG8	PB6PT	OK
DP	R8S7.1.0	FIRST	0.0	0.234	1.0000	S-REG8	PB6PT	OK
DP	R8S7.1.0	FIRST	0.0	0.527	1.0000	S-REG8	PB6PT	OK
DP	R8S8.1.0-1	FIRST	0.0	0.433	1.0000	S-REG8	PB8PT	OK
DP	R8S8.1.0-1	FIRST	0.0	0.382	1.0000	S-REG8	PB8PT	OK
DP	R8S8.1.0-1	FIRST	0.0	0.894	1.0000	S-REG8	PB8PT	OK
DP	R8S8.1.0	FIRST	0.0	0.480	1.0000	S-REG8	PB8PT	OK
DP	R8S8.1.0	FIRST	0.0	0.378	1.0000	S-REG8	PB8PT	OK
DP	R8S8.1.0	FIRST	0.0	0.796	1.0000	S-REG8	PB7PT	OK
DP	R8S9.1.0-1	FIRST	0.0	0.609	1.0000	S-REG8	PB9PT	OK
DP	R8S9.1.0-1	FIRST	0.0	0.534	1.0000	S-REG8	PB9PT	OK
DP	R8S9.1.0-1	FIRST	0.0	0.956	1.0000	S-REG8	PB9PT	OK
DP	R8S9.1.0	FIRST	-1.8	0.683	1.0000	S-REG8	PB9ST	OK
DP	R8S9.1.0	FIRST	-2.3	0.687	1.0000	S-REG8	PB9ST	OK
DP	R8S9.1.0	FIRST	-1.2	0.820	1.0000	S-REG8	PB9ST	OK
DP	R8S9.1.0	CROSS	0.0	0.644	1.0000	S-REG8	PB9PT	OK
DP	R8S9.1.0	CROSS	0.0	0.644	1.0000	S-REG8	PB9PT	OK
DP	R8S9.1.0	CROSS	0.0	0.878	1.0000	S-REG8	PB9PT	OK
DP	R8S10.1.0-1	FIRST	0.0	0.507	1.0000	S-REG8	PB10PT	OK
DP	R8S10.1.0-1	FIRST	0.0	0.484	1.0000	S-REG8	PB10PT	OK
DP	R8S10.1.0-1	FIRST	0.0	1.124	1.0000	S-REG8	PB10PT	OK
DP	R8S10.1.0	FIRST	0.0	0.511	1.0000	S-REG8	PB10PT	OK
DP	R8S10.1.0	FIRST	0.0	0.488	1.0000	S-REG8	PB10PT	OK
DP	R8S10.1.0	FIRST	0.0	1.062	1.0000	S-REG8	PB10PT	OK
DP	R8S11.1.0-1	FIRST	-0.6	0.140	1.0000	S-REG8	PB10ST	OK
DP	R8S11.1.0-1	FIRST	-1.2	0.226	1.0000	S-REG8	PB10ST	OK
DP	R8S11.1.0-1	FIRST	-2.0	1.031	1.0000	S-REG8	PB10ST	OK
DP	R8S11.1.0	FIRST	-0.6	0.140	1.0000	S-REG8	PB10ST	OK
DP	R8S11.1.0	FIRST	-1.2	0.226	1.0000	S-REG8	PB10ST	OK
DP	R8S11.1.0	FIRST	-2.0	1.031	1.0000	S-REG8	PB10ST	OK
DP	R8S12.1.0-1	FIRST	0.0	0.366	1.0000	S-REG8	PB12PT	OK
DP	R8S12.1.0-1	FIRST	0.0	0.601	1.0000	S-REG8	PB12PT	OK
DP	R8S12.1.0-1	FIRST	0.0	0.980	1.0000	S-REG8	PB12PT	OK
DP	R8S12.1.0	FIRST	-0.6	0.413	1.0000	S-REG8	PB12ST	OK
DP	R8S12.1.0	FIRST	-1.3	0.718	1.0000	S-REG8	PB12ST	OK
DP	R8S12.1.0	FIRST	-2.2	0.929	1.0000	S-REG8	PB12ST	OK

INIT	DAM	STAGE	HEEL degree	MINGM m	SFACSOL	DCRI	FLUNOP	STAT
DP	R8S12.1.0	CROSS	-1.2	0.788	1.0000	S-REG8	PB12ST	OK
DP	R8S12.1.0	CROSS	0.0	0.581	1.0000	S-REG8	PB12PT	OK
DP	R8S12.1.0	CROSS	0.0	0.808	1.0000	S-REG8	PB12PT	OK
DP	R8S13.1.0-1	FIRST	0.0	0.308	1.0000	S-REG8	PB12PT	OK
DP	R8S13.1.0-1	FIRST	0.0	0.527	1.0000	S-REG8	PB12PT	OK
DP	R8S13.1.0-1	FIRST	0.0	0.976	1.0000	S-REG8	PB12PT	OK
DP	R8S13.1.0	FIRST	0.0	0.347	1.0000	S-REG8	PB12PT	OK
DP	R8S13.1.0	FIRST	0.0	0.550	1.0000	S-REG8	PB12PT	OK
DP	R8S13.1.0	FIRST	0.0	0.851	1.0000	S-REG8	PB12PT	OK
DP	R8S14.1.0-1	FIRST	0.0	0.070	1.0000	S-REG8	-	OK
DP	R8S14.1.0-1	FIRST	0.0	0.140	1.0000	S-REG8	-	OK
DP	R8S14.1.0-1	FIRST	0.0	0.558	1.0000	S-REG8	-	OK
DP	R8S14.1.0	FIRST	0.0	0.070	1.0000	S-REG8	-	OK
DP	R8S14.1.0	FIRST	0.0	0.140	1.0000	S-REG8	-	OK
DP	R8S14.1.0	FIRST	0.0	0.558	1.0000	S-REG8	-	OK
DP	R8S15.1.0-1	FIRST	0.0	0.038	1.0000	S-REG8	-	OK
DP	R8S15.1.0-1	FIRST	0.0	0.034	1.0000	S-REG8	-	OK
DP	R8S15.1.0-1	FIRST	0.0	0.265	1.0000	S-REG8	-	OK
DP	R8S15.1.0	FIRST	0.0	0.007	1.0000	S-REG8	-	OK
DP	R8S15.1.0	FIRST	0.0	-0.009	1.0000	S-REG8	-	OK
DP	R8S15.1.0	FIRST	0.0	0.226	1.0000	S-REG8	-	OK
DP	R8S16.1.0	FIRST	0.0	0.031	1.0000	S-REG8	-	OK
DP	R8S16.1.0	FIRST	0.0	0.007	1.0000	S-REG8	-	OK
DP	R8S16.1.0	FIRST	0.0	0.210	1.0000	S-REG8	-	OK
DP	R8S1-2.0.0	FIRST	0.0	0.159	1.0000	S-REG8	PB2PT	OK
DP	R8S1-2.0.0	FIRST	0.0	0.257	1.0000	S-REG8	PB2PT	OK
DP	R8S1-2.0.0	FIRST	0.0	0.382	1.0000	S-REG8	PB2PT	OK
DP	R8S1-2.0.0	INT1	0.0	0.421	1.0000	S-REG8	PB2PT	OK
DP	R8S1-2.0.0	INT1	0.0	0.421	1.0000	S-REG8	PB2PT	OK
DP	R8S1-2.0.0	INT1	0.0	0.741	1.0000	S-REG8	PB2PT	OK
DP	R8S2-3.1.0	FIRST	-0.7	0.363	1.0000	S-REG8	PB3ST	OK
DP	R8S2-3.1.0	FIRST	-2.0	0.722	1.0000	S-REG8	PB3ST	OK
DP	R8S2-3.1.0	FIRST	-3.4	1.269	1.0000	S-REG8	PB3ST	OK
DP	R8S2-3.1.0	INT1	-3.4	1.269	1.0000	S-REG8	PB3ST	OK
DP	R8S2-3.1.0	INT1	-3.4	1.269	1.0000	S-REG8	PB3ST	OK
DP	R8S2-3.1.0	INT1	-3.4	1.269	1.0000	S-REG8	PB3ST	OK
DP	R8S2-3.1.0	INT2	-3.4	1.062	1.0000	S-REG8	PB3ST	OK
DP	R8S2-3.1.0	INT2	-3.4	1.062	1.0000	S-REG8	PB3ST	OK
DP	R8S3-4.1.0-1	FIRST	-1.2	0.534	1.0000	S-REG8	PB2ST	OK
DP	R8S3-4.1.0-1	FIRST	-3.1	0.761	1.0000	S-REG8	PB2ST	OK
DP	R8S3-4.1.0-1	FIRST	-3.2	1.312	1.0000	S-REG8	PB2ST	OK
DP	R8S3-4.1.0-1	INT1	-3.2	1.312	1.0000	S-REG8	PB2ST	OK
DP	R8S3-4.1.0-1	INT1	-3.2	1.312	1.0000	S-REG8	PB2ST	OK
DP	R8S3-4.1.0-1	INT1	-3.2	1.312	1.0000	S-REG8	PB2ST	OK
DP	R8S3-4.1.0-1	INT2	-3.2	1.245	1.0000	S-REG8	PB2ST	OK
DP	R8S3-4.1.0-1	INT2	-3.2	1.245	1.0000	S-REG8	PB2ST	OK
DP	R8S3-4.1.0	FIRST	-1.1	0.531	1.0000	S-REG8	PB2ST	OK
DP	R8S3-4.1.0	FIRST	-3.0	0.753	1.0000	S-REG8	PB2ST	OK
DP	R8S3-4.1.0	FIRST	-3.1	1.265	1.0000	S-REG8	PB2ST	OK
DP	R8S3-4.1.0	INT1	-3.1	1.265	1.0000	S-REG8	PB2ST	OK
DP	R8S3-4.1.0	INT1	-3.1	1.265	1.0000	S-REG8	PB2ST	OK
DP	R8S3-4.1.0	INT1	-3.1	1.265	1.0000	S-REG8	PB2ST	OK
DP	R8S3-4.1.0	INT2	-3.1	1.195	1.0000	S-REG8	PB2ST	OK
DP	R8S3-4.1.0	INT2	-3.1	1.195	1.0000	S-REG8	PB2ST	OK

INIT	DAM	STAGE	HEEL degree	MINGM m	SFACSOL	DCRI	FLUNOP	STAT
DP	R8S4-5.1.0-1	FIRST	-0.1	0.745	1.0000	S-REG8	PB3ST	OK
DP	R8S4-5.1.0-1	FIRST	-1.1	0.710	1.0000	S-REG8	PB3ST	OK
DP	R8S4-5.1.0-2	FIRST	-0.1	0.745	1.0000	S-REG8	PB3ST	OK
DP	R8S4-5.1.0-2	FIRST	-1.1	0.699	1.0000	S-REG8	PB3ST	OK
DP	R8S4-5.1.0	FIRST	-0.1	0.718	1.0000	S-REG8	PB3ST	OK
DP	R8S4-5.1.0	FIRST	-1.0	0.706	1.0000	S-REG8	PB3ST	OK
DP	R8S5-6.1.0-1	FIRST	0.0	0.753	1.0000	S-REG8	PB4PT	OK
DP	R8S5-6.1.0-1	FIRST	0.0	0.870	1.0000	S-REG8	PB4PT	OK
DP	R8S5-6.1.0-1	FIRST	0.0	1.296	1.0000	S-REG8	PB4PT	OK
DP	R8S5-6.1.0	FIRST	0.0	0.769	1.0000	S-REG8	PB4PT	OK
DP	R8S5-6.1.0	FIRST	0.0	0.710	1.0000	S-REG8	PB4PT	OK
DP	R8S6-7.1.0-1	FIRST	0.0	0.773	1.0000	S-REG8	PB6PT	OK
DP	R8S6-7.1.0-1	FIRST	0.0	0.878	1.0000	S-REG8	PB6PT	OK
DP	R8S6-7.1.0-1	FIRST	0.0	1.113	1.0000	S-REG8	PB6PT	OK
DP	R8S6-7.1.0	FIRST	0.0	0.784	1.0000	S-REG8	PB6PT	OK
DP	R8S6-7.1.0	FIRST	0.0	0.718	1.0000	S-REG8	PB6PT	OK
DP	R8S6-7.1.0	FIRST	0.0	0.741	1.0000	S-REG8	PB6PT	OK
DP	R8S7-8.1.0-1	FIRST	0.0	0.863	1.0000	S-REG8	PB6PT	OK
DP	R8S7-8.1.0-1	FIRST	1.5	0.804	1.0000	S-REG8	PB6PT	OK
DP	R8S7-8.1.0-1	FIRST	0.0	1.378	1.0000	S-REG8	PB6PT	OK
DP	R8S7-8.1.0	FIRST	0.0	0.941	1.0000	S-REG8	PB6PT	OK
DP	R8S7-8.1.0	FIRST	1.0	0.788	1.0000	S-REG8	PB6PT	OK
DP	R8S7-8.1.0	FIRST	0.0	1.085	1.0000	S-REG8	PB6PT	OK
DP	R8S8-9.1.0-1	FIRST	1.2	1.077	1.0000	S-REG8	PB9PT	OK
DP	R8S8-9.1.0-1	FIRST	3.5	1.113	1.0000	S-REG8	PB9PT	OK
DP	R8S8-9.1.0-1	FIRST	0.0	1.574	1.0000	S-REG8	PB9PT	OK
DP	R8S8-9.1.0	FIRST	-3.4	1.218	1.0000	S-REG8	PB9ST	OK
DP	R8S8-9.1.0	FIRST	-5.3	1.288	1.0000	S-REG8	PB9ST	OK
DP	R8S8-9.1.0	FIRST	-1.6	1.331	1.0000	S-REG8	PB9ST	OK
DP	R8S8-9.1.0	CROSS	0.0	1.148	1.0000	S-REG8	PB9PT	OK
DP	R8S8-9.1.0	CROSS	0.0	1.148	1.0000	S-REG8	PB9PT	OK
DP	R8S8-9.1.0	CROSS	0.0	1.398	1.0000	S-REG8	PB9PT	OK
DP	R8S9-10.1.0-1	FIRST	1.7	1.179	1.0000	S-REG8	PB10PT	OK
DP	R8S9-10.1.0-1	FIRST	5.4	1.300	1.0000	S-REG8	PB10PT	OK
DP	R8S9-10.1.0-1	FIRST	0.0	1.824	1.0000	S-REG8	PB10PT	OK
DP	R8S9-10.1.0	FIRST	-3.9	1.265	1.0000	S-REG8	PB10ST	OK
DP	R8S9-10.1.0	FIRST	-7.2	1.491	1.0000	S-REG8	PB10ST	OK
DP	R8S9-10.1.0	FIRST	-2.0	1.632	1.0000	S-REG8	PB10ST	OK
DP	R8S9-10.1.0	CROSS	0.0	1.437	1.0000	S-REG8	PB10PT	OK
DP	R8S9-10.1.0	CROSS	0.0	1.437	1.0000	S-REG8	PB10PT	OK
DP	R8S9-10.1.0	CROSS	0.0	1.683	1.0000	S-REG8	PB10PT	OK
DP	R8S10-11.1.0-1	FIRST	-1.3	0.593	1.0000	S-REG8	PB9ST	OK
DP	R8S10-11.1.0-1	FIRST	-3.3	0.738	1.0000	S-REG8	PB9ST	OK
DP	R8S10-11.1.0	FIRST	-1.2	0.597	1.0000	S-REG8	PB9ST	OK
DP	R8S10-11.1.0	FIRST	-3.2	0.757	1.0000	S-REG8	PB9ST	OK
DP	R8S11-12.1.0-1	FIRST	-1.1	0.519	1.0000	S-REG8	PB12ST	OK
DP	R8S11-12.1.0-1	FIRST	-2.6	1.077	1.0000	S-REG8	PB12ST	OK
DP	R8S11-12.1.0-1	FIRST	-6.7	1.874	1.0000	S-REG8	PB12ST	OK
DP	R8S11-12.1.0-1	CROSS	-5.5	1.722	1.0000	S-REG8	PB12ST	OK
DP	R8S11-12.1.0-1	CROSS	-3.5	1.499	1.0000	S-REG8	PB12ST	OK
DP	R8S11-12.1.0-2	FIRST	-0.6	0.472	1.0000	S-REG8	PB12ST	OK
DP	R8S11-12.1.0-2	FIRST	-1.2	0.913	1.0000	S-REG8	PB12ST	OK
DP	R8S11-12.1.0	FIRST	-1.1	0.519	1.0000	S-REG8	PB12ST	OK
DP	R8S11-12.1.0	FIRST	-2.6	1.077	1.0000	S-REG8	PB12ST	OK

INIT	DAM	STAGE	HEEL degree	MINGM m	SFACSOL	DCRI	FLUNOP	STAT
DP	R8S11-12.1.0	FIRST	-6.7	1.874	1.0000	S-REG8	PB12ST	OK
DP	R8S11-12.1.0	CROSS	-5.5	1.722	1.0000	S-REG8	PB12ST	OK
DP	R8S11-12.1.0	CROSS	-3.5	1.499	1.0000	S-REG8	PB12ST	OK
DP	R8S12-13.1.0-1	FIRST	0.0	0.609	1.0000	S-REG8	-	OK
DP	R8S12-13.1.0-1	FIRST	0.0	1.097	1.0000	S-REG8	-	OK
DP	R8S12-13.1.0-1	FIRST	0.0	1.773	1.0000	S-REG8	-	OK
DP	R8S12-13.1.0	FIRST	-0.9	0.726	1.0000	S-REG8	-	OK
DP	R8S12-13.1.0	FIRST	-2.3	1.312	1.0000	S-REG8	-	OK
DP	R8S12-13.1.0	FIRST	-3.4	1.609	1.0000	S-REG8	-	OK
DP	R8S12-13.1.0	CROSS	-1.6	1.452	1.0000	S-REG8	-	OK
DP	R8S12-13.1.0	CROSS	0.0	1.281	1.0000	S-REG8	-	OK
DP	R8S12-13.1.0	CROSS	0.0	1.538	1.0000	S-REG8	-	OK
DP	R8S13-14.1.0-1	FIRST	0.0	0.359	1.0000	S-REG8	PB12PT	OK
DP	R8S13-14.1.0-1	FIRST	0.0	0.550	1.0000	S-REG8	PB12PT	OK
DP	R8S13-14.1.0-2	FIRST	0.0	0.324	1.0000	S-REG8	PB12PT	OK
DP	R8S13-14.1.0-2	FIRST	0.0	0.648	1.0000	S-REG8	PB12PT	OK
DP	R8S13-14.1.0	FIRST	0.0	0.359	1.0000	S-REG8	PB12PT	OK
DP	R8S13-14.1.0	FIRST	0.0	0.550	1.0000	S-REG8	PB12PT	OK
DP	R8S14-15.1.0-1	FIRST	0.0	0.023	1.0000	S-REG8	-	OK
DP	R8S14-15.1.0-1	FIRST	0.0	0.085	1.0000	S-REG8	-	OK
DP	R8S14-15.1.0-1	FIRST	0.0	0.601	1.0000	S-REG8	-	OK
DP	R8S14-15.1.0-2	FIRST	0.0	0.066	1.0000	S-REG8	-	OK
DP	R8S14-15.1.0-2	FIRST	0.0	0.136	1.0000	S-REG8	-	OK
DP	R8S14-15.1.0-2	FIRST	0.0	0.624	1.0000	S-REG8	-	OK
DP	R8S14-15.1.0	FIRST	0.0	0.023	1.0000	S-REG8	-	OK
DP	R8S14-15.1.0	FIRST	0.0	0.085	1.0000	S-REG8	-	OK
DP	R8S14-15.1.0	FIRST	0.0	0.601	1.0000	S-REG8	-	OK
DP	R8S15-16.1.0-1	FIRST	0.0	0.007	1.0000	S-REG8	-	OK
DP	R8S15-16.1.0-1	FIRST	0.0	-0.020	1.0000	S-REG8	-	OK
DP	R8S15-16.1.0-1	FIRST	0.0	0.210	1.0000	S-REG8	-	OK
DP	R8S15-16.1.0	FIRST	0.0	-0.016	1.0000	S-REG8	-	OK
DP	R8S15-16.1.0	FIRST	0.0	-0.059	1.0000	S-REG8	-	OK
DP	R8S15-16.1.0	FIRST	0.0	0.175	1.0000	S-REG8	-	OK

13.3 Results for DL

RESULTS

INIT	DAM	STAGE	HEEL degree	MINGM m	SFACSOL	DCRI	FLUNOP	STAT
DL	R8P11-12.1.0-1	CROSS	3.5	1.896	0.9714	S-REG8	PB12PT	OK
DL	R8P11-12.1.0	CROSS	3.5	1.896	0.9714	S-REG8	PB12PT	OK
DL	R8S11-12.1.0-1	CROSS	-3.5	1.896	0.9714	S-REG8	PB12ST	OK
DL	R8S11-12.1.0	CROSS	-3.5	1.896	0.9714	S-REG8	PB12ST	OK
DL	R8P2-3.1.0	INT2	3.6	1.775	0.9728	S-REG8	PB3PT	OK
DL	R8S2-3.1.0	INT2	-3.6	1.755	0.9747	S-REG8	PB3ST	OK
DL	R8S3-4.1.0	INT2	-3.1	1.587	0.9766	S-REG8	PB2ST	OK
DL	R8P3-4.1.0	INT2	3.1	1.576	0.9778	S-REG8	PB2PT	OK
DL	R8S3-4.1.0-1	INT2	-3.2	1.646	0.9804	S-REG8	PB2ST	OK
DL	R8P3-4.1.0-1	INT2	3.2	1.634	0.9816	S-REG8	PB2PT	OK
DL	R8P11-12.1.0-2	FIRST	3.6	1.970	0.9865	S-REG8	PB12PT	OK
DL	R8S11-12.1.0-2	FIRST	-3.6	1.970	0.9865	S-REG8	PB12ST	OK
DL	R8P13-14.1.0-1	FIRST	0.0	1.353	0.9891	S-REG8	PB12PT	OK
DL	R8P13-14.1.0	FIRST	0.0	1.353	0.9891	S-REG8	PB12PT	OK
DL	R8S13-14.1.0-1	FIRST	0.0	1.353	0.9891	S-REG8	PB12PT	OK
DL	R8S13-14.1.0	FIRST	0.0	1.353	0.9891	S-REG8	PB12PT	OK
DL	R8P10-11.1.0	FIRST	3.9	2.013	0.9940	S-REG8	PB9PT	OK
DL	R8S10-11.1.0	FIRST	-3.9	2.013	0.9940	S-REG8	PB9ST	OK
DL	R8P10-11.1.0-1	FIRST	3.9	2.052	0.9953	S-REG8	PB9PT	OK
DL	R8S10-11.1.0-1	FIRST	-3.9	2.052	0.9953	S-REG8	PB9ST	OK
DL	R8P1.1.0	FIRST	0.0	0.056	1.0000	S-REG8	-	OK
DL	R8P1.1.0	FIRST	0.0	0.037	1.0000	S-REG8	-	OK
DL	R8P1.1.0	FIRST	0.0	0.373	1.0000	S-REG8	-	OK
DL	R8P2.1.0	FIRST	0.0	0.189	1.0000	S-REG8	PB2PT	OK
DL	R8P2.1.0	FIRST	0.0	0.287	1.0000	S-REG8	PB2PT	OK
DL	R8P2.1.0	FIRST	0.0	0.466	1.0000	S-REG8	PB2PT	OK
DL	R8P2.1.0	INT2	0.0	0.365	1.0000	S-REG8	PB2PT	OK
DL	R8P2.1.0	INT2	0.0	0.365	1.0000	S-REG8	PB2PT	OK
DL	R8P2.1.0	INT2	0.0	0.681	1.0000	S-REG8	PB2PT	OK
DL	R8P3.1.0	FIRST	0.6	0.232	1.0000	S-REG8	PB2PT	OK
DL	R8P3.1.0	FIRST	1.5	0.314	1.0000	S-REG8	PB2PT	OK
DL	R8P3.1.0	FIRST	2.4	0.693	1.0000	S-REG8	PB2PT	OK
DL	R8P3.1.0	INT1	2.4	0.630	1.0000	S-REG8	PB2PT	OK
DL	R8P3.1.0	INT1	2.4	0.630	1.0000	S-REG8	PB2PT	OK
DL	R8P3.1.0	INT1	2.4	0.693	1.0000	S-REG8	PB2PT	OK
DL	R8P3.1.0	INT2	2.4	0.642	1.0000	S-REG8	PB2PT	OK
DL	R8P3.1.0	INT2	2.4	0.642	1.0000	S-REG8	PB2PT	OK
DL	R8P3.1.0	INT2	2.4	1.048	1.0000	S-REG8	PB2PT	OK
DL	R8P4.1.0-1	FIRST	0.0	0.345	1.0000	S-REG8	PB3PT	OK
DL	R8P4.1.0-1	FIRST	0.0	0.556	1.0000	S-REG8	PB3PT	OK
DL	R8P4.1.0-1	FIRST	0.1	0.841	1.0000	S-REG8	PB3PT	OK
DL	R8P4.1.0	FIRST	0.0	0.337	1.0000	S-REG8	PB3PT	OK
DL	R8P4.1.0	FIRST	0.0	0.513	1.0000	S-REG8	PB3PT	OK
DL	R8P4.1.0	FIRST	0.2	0.771	1.0000	S-REG8	PB3PT	OK
DL	R8P5.1.0-1	FIRST	0.0	0.408	1.0000	S-REG8	PB4PT	OK
DL	R8P5.1.0-1	FIRST	0.0	0.244	1.0000	S-REG8	PB4PT	OK
DL	R8P5.1.0-1	FIRST	0.0	0.681	1.0000	S-REG8	PB4PT	OK
DL	R8P5.1.0	FIRST	0.0	0.408	1.0000	S-REG8	PB4PT	OK

INIT	DAM	STAGE	HEEL degree	MINGM m	SFACSOL	DCRI	FLUNOP	STAT
DL	R8P5.1.0	FIRST	0.0	0.181	1.0000	S-REG8	PB4PT	OK
DL	R8P5.1.0	FIRST	0.0	0.521	1.0000	S-REG8	PB4PT	OK
DL	R8P6.1.0-1	FIRST	0.0	0.357	1.0000	S-REG8	PB7PT	OK
DL	R8P6.1.0-1	FIRST	0.0	0.587	1.0000	S-REG8	PB4PT	OK
DL	R8P6.1.0-1	FIRST	0.0	1.025	1.0000	S-REG8	PB4PT	OK
DL	R8P6.1.0	FIRST	0.0	0.427	1.0000	S-REG8	PB4PT	OK
DL	R8P6.1.0	FIRST	0.0	0.423	1.0000	S-REG8	PB4PT	OK
DL	R8P6.1.0	FIRST	0.0	0.666	1.0000	S-REG8	PB4PT	OK
DL	R8P7.1.0-1	FIRST	0.0	0.431	1.0000	S-REG8	PB6PT	OK
DL	R8P7.1.0-1	FIRST	0.0	0.251	1.0000	S-REG8	PB6PT	OK
DL	R8P7.1.0-1	FIRST	0.0	0.763	1.0000	S-REG8	PB6PT	OK
DL	R8P7.1.0	FIRST	0.0	0.560	1.0000	S-REG8	PB6PT	OK
DL	R8P7.1.0	FIRST	0.0	0.177	1.0000	S-REG8	PB6PT	OK
DL	R8P7.1.0	FIRST	0.0	0.537	1.0000	S-REG8	PB6PT	OK
DL	R8P8.1.0-1	FIRST	0.0	0.435	1.0000	S-REG8	PB8PT	OK
DL	R8P8.1.0-1	FIRST	0.0	0.310	1.0000	S-REG8	PB8PT	OK
DL	R8P8.1.0-1	FIRST	0.0	0.943	1.0000	S-REG8	PB7PT	OK
DL	R8P8.1.0	FIRST	0.0	0.470	1.0000	S-REG8	PB8PT	OK
DL	R8P8.1.0	FIRST	0.0	0.291	1.0000	S-REG8	PB7PT	OK
DL	R8P8.1.0	FIRST	0.0	0.841	1.0000	S-REG8	PB7PT	OK
DL	R8P9.1.0-1	FIRST	0.0	0.591	1.0000	S-REG8	PB9PT	OK
DL	R8P9.1.0-1	FIRST	0.0	0.396	1.0000	S-REG8	PB9PT	OK
DL	R8P9.1.0-1	FIRST	0.0	1.021	1.0000	S-REG8	PB9PT	OK
DL	R8P9.1.0	FIRST	1.4	0.673	1.0000	S-REG8	PB9PT	OK
DL	R8P9.1.0	FIRST	1.4	0.544	1.0000	S-REG8	PB9PT	OK
DL	R8P9.1.0	FIRST	1.2	0.880	1.0000	S-REG8	PB9PT	OK
DL	R8P9.1.0	CROSS	0.0	0.701	1.0000	S-REG8	PB9PT	OK
DL	R8P9.1.0	CROSS	0.0	0.701	1.0000	S-REG8	PB9PT	OK
DL	R8P9.1.0	CROSS	0.0	0.935	1.0000	S-REG8	PB9PT	OK
DL	R8P10.1.0-1	FIRST	0.0	0.494	1.0000	S-REG8	PB10PT	OK
DL	R8P10.1.0-1	FIRST	0.0	0.384	1.0000	S-REG8	PB10PT	OK
DL	R8P10.1.0-1	FIRST	0.0	1.173	1.0000	S-REG8	PB10PT	OK
DL	R8P10.1.0	FIRST	0.0	0.498	1.0000	S-REG8	PB10PT	OK
DL	R8P10.1.0	FIRST	0.0	0.373	1.0000	S-REG8	PB10PT	OK
DL	R8P10.1.0	FIRST	0.0	1.107	1.0000	S-REG8	PB10PT	OK
DL	R8P11.1.0-1	FIRST	0.4	0.130	1.0000	S-REG8	PB10PT	OK
DL	R8P11.1.0-1	FIRST	0.8	0.181	1.0000	S-REG8	PB10PT	OK
DL	R8P11.1.0-1	FIRST	1.6	0.959	1.0000	S-REG8	PB10PT	OK
DL	R8P11.1.0	FIRST	0.4	0.130	1.0000	S-REG8	PB10PT	OK
DL	R8P11.1.0	FIRST	0.8	0.181	1.0000	S-REG8	PB10PT	OK
DL	R8P11.1.0	FIRST	1.6	0.959	1.0000	S-REG8	PB10PT	OK
DL	R8P12.1.0-1	FIRST	0.0	0.380	1.0000	S-REG8	PB12PT	OK
DL	R8P12.1.0-1	FIRST	0.0	0.595	1.0000	S-REG8	PB12PT	OK
DL	R8P12.1.0-1	FIRST	0.0	1.005	1.0000	S-REG8	PB12PT	OK
DL	R8P12.1.0	FIRST	0.6	0.423	1.0000	S-REG8	PB12PT	OK
DL	R8P12.1.0	FIRST	1.4	0.701	1.0000	S-REG8	PB12PT	OK
DL	R8P12.1.0	FIRST	2.3	0.939	1.0000	S-REG8	PB12PT	OK
DL	R8P12.1.0	CROSS	1.4	0.810	1.0000	S-REG8	PB12PT	OK
DL	R8P12.1.0	CROSS	0.0	0.599	1.0000	S-REG8	PB12PT	OK
DL	R8P12.1.0	CROSS	0.0	0.841	1.0000	S-REG8	PB12PT	OK
DL	R8P13.1.0-1	FIRST	0.0	0.322	1.0000	S-REG8	PB12PT	OK
DL	R8P13.1.0-1	FIRST	0.0	0.529	1.0000	S-REG8	PB12PT	OK
DL	R8P13.1.0-1	FIRST	0.0	1.001	1.0000	S-REG8	PB12PT	OK
DL	R8P13.1.0	FIRST	0.0	0.361	1.0000	S-REG8	PB12PT	OK

INIT	DAM	STAGE	HEEL degree	MINGM m	SFACSOL	DCRI	FLUNOP	STAT
DL	R8P13.1.0	FIRST	0.0	0.533	1.0000	S-REG8	PB12PT	OK
DL	R8P13.1.0	FIRST	0.0	0.869	1.0000	S-REG8	PB12PT	OK
DL	R8P14.1.0-1	FIRST	0.0	0.084	1.0000	S-REG8	-	OK
DL	R8P14.1.0-1	FIRST	0.0	0.138	1.0000	S-REG8	-	OK
DL	R8P14.1.0-1	FIRST	0.0	0.556	1.0000	S-REG8	-	OK
DL	R8P14.1.0	FIRST	0.0	0.084	1.0000	S-REG8	-	OK
DL	R8P14.1.0	FIRST	0.0	0.138	1.0000	S-REG8	-	OK
DL	R8P14.1.0	FIRST	0.0	0.556	1.0000	S-REG8	-	OK
DL	R8P15.1.0-1	FIRST	0.0	0.060	1.0000	S-REG8	-	OK
DL	R8P15.1.0-1	FIRST	0.0	0.052	1.0000	S-REG8	-	OK
DL	R8P15.1.0-1	FIRST	0.0	0.291	1.0000	S-REG8	-	OK
DL	R8P15.1.0	FIRST	0.0	0.029	1.0000	S-REG8	-	OK
DL	R8P15.1.0	FIRST	0.0	0.009	1.0000	S-REG8	-	OK
DL	R8P15.1.0	FIRST	0.0	0.248	1.0000	S-REG8	-	OK
DL	R8P16.1.0	FIRST	0.0	0.048	1.0000	S-REG8	-	OK
DL	R8P16.1.0	FIRST	0.0	0.029	1.0000	S-REG8	-	OK
DL	R8P16.1.0	FIRST	0.0	0.248	1.0000	S-REG8	-	OK
DL	R8P1-2.0.0	FIRST	0.0	0.169	1.0000	S-REG8	PB2PT	OK
DL	R8P1-2.0.0	FIRST	0.0	0.255	1.0000	S-REG8	PB2PT	OK
DL	R8P1-2.0.0	FIRST	0.0	0.595	1.0000	S-REG8	PB2PT	OK
DL	R8P1-2.0.0	INT2	0.0	0.474	1.0000	S-REG8	PB2PT	OK
DL	R8P1-2.0.0	INT2	0.0	0.474	1.0000	S-REG8	PB2PT	OK
DL	R8P1-2.0.0	INT2	0.0	0.818	1.0000	S-REG8	PB2PT	OK
DL	R8P2-3.1.0	FIRST	0.7	0.365	1.0000	S-REG8	PB3PT	OK
DL	R8P2-3.1.0	FIRST	1.7	0.615	1.0000	S-REG8	PB3PT	OK
DL	R8P2-3.1.0	FIRST	3.6	1.224	1.0000	S-REG8	PB3PT	OK
DL	R8P2-3.1.0	INT1	3.6	1.025	1.0000	S-REG8	PB3PT	OK
DL	R8P2-3.1.0	INT1	3.6	1.025	1.0000	S-REG8	PB3PT	OK
DL	R8P2-3.1.0	INT1	3.6	1.224	1.0000	S-REG8	PB3PT	OK
DL	R8P2-3.1.0	INT2	3.6	1.041	1.0000	S-REG8	PB3PT	OK
DL	R8P2-3.1.0	INT2	3.6	1.041	1.0000	S-REG8	PB3PT	OK
DL	R8P3-4.1.0-1	FIRST	0.9	0.525	1.0000	S-REG8	PB2PT	OK
DL	R8P3-4.1.0-1	FIRST	2.4	0.888	1.0000	S-REG8	PB2PT	OK
DL	R8P3-4.1.0-1	FIRST	3.2	1.279	1.0000	S-REG8	PB2PT	OK
DL	R8P3-4.1.0-1	INT1	3.2	1.201	1.0000	S-REG8	PB2PT	OK
DL	R8P3-4.1.0-1	INT1	3.2	1.201	1.0000	S-REG8	PB2PT	OK
DL	R8P3-4.1.0-1	INT1	3.2	1.279	1.0000	S-REG8	PB2PT	OK
DL	R8P3-4.1.0-1	INT2	3.2	1.216	1.0000	S-REG8	PB2PT	OK
DL	R8P3-4.1.0-1	INT2	3.2	1.216	1.0000	S-REG8	PB2PT	OK
DL	R8P3-4.1.0	FIRST	0.8	0.513	1.0000	S-REG8	PB2PT	OK
DL	R8P3-4.1.0	FIRST	2.3	0.849	1.0000	S-REG8	PB2PT	OK
DL	R8P3-4.1.0	FIRST	3.1	1.224	1.0000	S-REG8	PB2PT	OK
DL	R8P3-4.1.0	INT1	3.1	1.142	1.0000	S-REG8	PB2PT	OK
DL	R8P3-4.1.0	INT1	3.1	1.142	1.0000	S-REG8	PB2PT	OK
DL	R8P3-4.1.0	INT1	3.1	1.224	1.0000	S-REG8	PB2PT	OK
DL	R8P3-4.1.0	INT2	3.1	1.158	1.0000	S-REG8	PB2PT	OK
DL	R8P3-4.1.0	INT2	3.1	1.158	1.0000	S-REG8	PB2PT	OK
DL	R8P4-5.1.0-1	FIRST	0.0	0.736	1.0000	S-REG8	PB3PT	OK
DL	R8P4-5.1.0-1	FIRST	0.0	0.802	1.0000	S-REG8	PB3PT	OK
DL	R8P4-5.1.0-1	FIRST	0.6	1.158	1.0000	S-REG8	PB3PT	OK
DL	R8P4-5.1.0-2	FIRST	0.0	0.740	1.0000	S-REG8	PB3PT	OK
DL	R8P4-5.1.0-2	FIRST	0.0	0.830	1.0000	S-REG8	PB3PT	OK
DL	R8P4-5.1.0-2	FIRST	0.5	1.224	1.0000	S-REG8	PB3PT	OK
DL	R8P4-5.1.0	FIRST	0.0	0.701	1.0000	S-REG8	PB3PT	OK

INIT	DAM	STAGE	HEEL degree	MINGM m	SFACSOL	DCRI	FLUNOP	STAT
DL	R8P4-5.1.0	FIRST	0.0	0.724	1.0000	S-REG8	PB3PT	OK
DL	R8P4-5.1.0	FIRST	0.6	1.001	1.0000	S-REG8	PB3PT	OK
DL	R8P5-6.1.0-1	FIRST	0.0	0.755	1.0000	S-REG8	PB4PT	OK
DL	R8P5-6.1.0-1	FIRST	0.0	0.837	1.0000	S-REG8	PB4PT	OK
DL	R8P5-6.1.0-1	FIRST	0.0	1.334	1.0000	S-REG8	PB4PT	OK
DL	R8P5-6.1.0	FIRST	0.0	1.013	1.0000	S-REG8	PB4PT	OK
DL	R8P5-6.1.0	FIRST	0.0	0.677	1.0000	S-REG8	PB4PT	OK
DL	R8P5-6.1.0	FIRST	0.0	0.966	1.0000	S-REG8	PB4PT	OK
DL	R8P6-7.1.0-1	FIRST	0.0	0.787	1.0000	S-REG8	PB4PT	OK
DL	R8P6-7.1.0-1	FIRST	0.0	0.845	1.0000	S-REG8	PB4PT	OK
DL	R8P6-7.1.0-1	FIRST	0.0	1.361	1.0000	S-REG8	PB4PT	OK
DL	R8P6-7.1.0	FIRST	0.0	0.779	1.0000	S-REG8	PB4PT	OK
DL	R8P6-7.1.0	FIRST	0.0	0.685	1.0000	S-REG8	PB4PT	OK
DL	R8P6-7.1.0	FIRST	0.0	0.994	1.0000	S-REG8	PB4PT	OK
DL	R8P7-8.1.0-1	FIRST	0.0	0.837	1.0000	S-REG8	PB6PT	OK
DL	R8P7-8.1.0-1	FIRST	0.0	0.611	1.0000	S-REG8	PB6PT	OK
DL	R8P7-8.1.0-1	FIRST	0.0	1.431	1.0000	S-REG8	PB6PT	OK
DL	R8P7-8.1.0	FIRST	0.0	0.912	1.0000	S-REG8	PB6PT	OK
DL	R8P7-8.1.0	FIRST	0.5	0.572	1.0000	S-REG8	PB6PT	OK
DL	R8P7-8.1.0	FIRST	0.0	1.115	1.0000	S-REG8	PB6PT	OK
DL	R8P8-9.1.0-1	FIRST	0.0	1.029	1.0000	S-REG8	PB9PT	OK
DL	R8P8-9.1.0-1	FIRST	1.0	0.806	1.0000	S-REG8	PB9PT	OK
DL	R8P8-9.1.0-1	FIRST	0.0	1.666	1.0000	S-REG8	PB9PT	OK
DL	R8P8-9.1.0	FIRST	2.4	1.169	1.0000	S-REG8	PB9PT	OK
DL	R8P8-9.1.0	FIRST	3.1	0.959	1.0000	S-REG8	PB9PT	OK
DL	R8P8-9.1.0	FIRST	1.8	1.419	1.0000	S-REG8	PB9PT	OK
DL	R8P8-9.1.0	CROSS	0.0	1.232	1.0000	S-REG8	PB9PT	OK
DL	R8P8-9.1.0	CROSS	0.0	1.232	1.0000	S-REG8	PB9PT	OK
DL	R8P8-9.1.0	CROSS	0.0	1.478	1.0000	S-REG8	PB9PT	OK
DL	R8P9-10.1.0-1	FIRST	0.0	1.107	1.0000	S-REG8	PB10PT	OK
DL	R8P9-10.1.0-1	FIRST	1.7	0.916	1.0000	S-REG8	PB10PT	OK
DL	R8P9-10.1.0-1	FIRST	0.0	1.919	1.0000	S-REG8	PB10PT	OK
DL	R8P9-10.1.0	FIRST	2.7	1.185	1.0000	S-REG8	PB10PT	OK
DL	R8P9-10.1.0	FIRST	4.2	1.091	1.0000	S-REG8	PB10PT	OK
DL	R8P9-10.1.0	FIRST	2.3	1.712	1.0000	S-REG8	PB10PT	OK
DL	R8P9-10.1.0	CROSS	0.0	1.529	1.0000	S-REG8	PB10PT	OK
DL	R8P9-10.1.0	CROSS	0.0	1.529	1.0000	S-REG8	PB10PT	OK
DL	R8P9-10.1.0	CROSS	0.0	1.771	1.0000	S-REG8	PB10PT	OK
DL	R8P10-11.1.0-1	FIRST	0.6	0.541	1.0000	S-REG8	PB9PT	OK
DL	R8P10-11.1.0-1	FIRST	1.3	0.490	1.0000	S-REG8	PB9PT	OK
DL	R8P10-11.1.0	FIRST	0.6	0.544	1.0000	S-REG8	PB9PT	OK
DL	R8P10-11.1.0	FIRST	1.3	0.486	1.0000	S-REG8	PB9PT	OK
DL	R8P11-12.1.0-1	FIRST	1.1	0.490	1.0000	S-REG8	PB12PT	OK
DL	R8P11-12.1.0-1	FIRST	2.6	0.939	1.0000	S-REG8	PB12PT	OK
DL	R8P11-12.1.0-1	FIRST	6.5	1.794	1.0000	S-REG8	PB12PT	OK
DL	R8P11-12.1.0-1	CROSS	5.4	1.662	1.0000	S-REG8	PB12PT	OK
DL	R8P11-12.1.0-1	CROSS	3.5	1.431	1.0000	S-REG8	PB12PT	OK
DL	R8P11-12.1.0-2	FIRST	0.6	0.451	1.0000	S-REG8	PB12PT	OK
DL	R8P11-12.1.0-2	FIRST	1.2	0.802	1.0000	S-REG8	PB12PT	OK
DL	R8P11-12.1.0	FIRST	1.1	0.490	1.0000	S-REG8	PB12PT	OK
DL	R8P11-12.1.0	FIRST	2.6	0.939	1.0000	S-REG8	PB12PT	OK
DL	R8P11-12.1.0	FIRST	6.5	1.794	1.0000	S-REG8	PB12PT	OK
DL	R8P11-12.1.0	CROSS	5.4	1.662	1.0000	S-REG8	PB12PT	OK
DL	R8P11-12.1.0	CROSS	3.5	1.431	1.0000	S-REG8	PB12PT	OK

INIT	DAM	STAGE	HEEL degree	MINGM m	SFACSOL	DCRI	FLUNOP	STAT
DL	R8P12-13.1.0-1	FIRST	0.0	0.607	1.0000	S-REG8	-	OK
DL	R8P12-13.1.0-1	FIRST	0.0	1.080	1.0000	S-REG8	-	OK
DL	R8P12-13.1.0-1	FIRST	0.0	1.818	1.0000	S-REG8	-	OK
DL	R8P12-13.1.0	FIRST	0.9	0.716	1.0000	S-REG8	-	OK
DL	R8P12-13.1.0	FIRST	2.5	1.330	1.0000	S-REG8	-	OK
DL	R8P12-13.1.0	FIRST	3.6	1.619	1.0000	S-REG8	-	OK
DL	R8P12-13.1.0	CROSS	1.9	1.474	1.0000	S-REG8	-	OK
DL	R8P12-13.1.0	CROSS	0.0	1.287	1.0000	S-REG8	-	OK
DL	R8P12-13.1.0	CROSS	0.0	1.537	1.0000	S-REG8	-	OK
DL	R8P13-14.1.0-1	FIRST	0.0	0.365	1.0000	S-REG8	PB12PT	OK
DL	R8P13-14.1.0-1	FIRST	0.0	0.552	1.0000	S-REG8	PB12PT	OK
DL	R8P13-14.1.0-2	FIRST	0.0	0.334	1.0000	S-REG8	PB12PT	OK
DL	R8P13-14.1.0-2	FIRST	0.0	0.619	1.0000	S-REG8	PB12PT	OK
DL	R8P13-14.1.0-2	FIRST	0.0	1.439	1.0000	S-REG8	PB12PT	OK
DL	R8P13-14.1.0	FIRST	0.0	0.365	1.0000	S-REG8	PB12PT	OK
DL	R8P13-14.1.0	FIRST	0.0	0.552	1.0000	S-REG8	PB12PT	OK
DL	R8P14-15.1.0-1	FIRST	0.0	0.041	1.0000	S-REG8	-	OK
DL	R8P14-15.1.0-1	FIRST	0.0	0.084	1.0000	S-REG8	-	OK
DL	R8P14-15.1.0-1	FIRST	0.0	0.580	1.0000	S-REG8	-	OK
DL	R8P14-15.1.0-2	FIRST	0.0	0.087	1.0000	S-REG8	-	OK
DL	R8P14-15.1.0-2	FIRST	0.0	0.134	1.0000	S-REG8	-	OK
DL	R8P14-15.1.0-2	FIRST	0.0	0.607	1.0000	S-REG8	-	OK
DL	R8P14-15.1.0	FIRST	0.0	0.041	1.0000	S-REG8	-	OK
DL	R8P14-15.1.0	FIRST	0.0	0.084	1.0000	S-REG8	-	OK
DL	R8P14-15.1.0	FIRST	0.0	0.580	1.0000	S-REG8	-	OK
DL	R8P15-16.1.0-1	FIRST	0.0	0.029	1.0000	S-REG8	-	OK
DL	R8P15-16.1.0-1	FIRST	0.0	-0.002	1.0000	S-REG8	-	OK
DL	R8P15-16.1.0-1	FIRST	0.0	0.232	1.0000	S-REG8	-	OK
DL	R8P15-16.1.0	FIRST	0.0	0.005	1.0000	S-REG8	-	OK
DL	R8P15-16.1.0	FIRST	0.0	-0.041	1.0000	S-REG8	-	OK
DL	R8P15-16.1.0	FIRST	0.0	0.189	1.0000	S-REG8	-	OK
DL	R8S1.1.0	FIRST	0.0	0.056	1.0000	S-REG8	-	OK
DL	R8S1.1.0	FIRST	0.0	0.037	1.0000	S-REG8	-	OK
DL	R8S1.1.0	FIRST	0.0	0.341	1.0000	S-REG8	-	OK
DL	R8S2.1.0	FIRST	0.0	0.189	1.0000	S-REG8	PB2PT	OK
DL	R8S2.1.0	FIRST	0.0	0.287	1.0000	S-REG8	PB2PT	OK
DL	R8S2.1.0	FIRST	0.0	0.365	1.0000	S-REG8	PB2PT	OK
DL	R8S2.1.0	INT1	0.0	0.365	1.0000	S-REG8	PB2PT	OK
DL	R8S2.1.0	INT1	0.0	0.365	1.0000	S-REG8	PB2PT	OK
DL	R8S2.1.0	INT1	0.0	0.681	1.0000	S-REG8	PB2PT	OK
DL	R8S3.1.0	FIRST	-0.6	0.232	1.0000	S-REG8	PB2ST	OK
DL	R8S3.1.0	FIRST	-1.5	0.337	1.0000	S-REG8	PB2ST	OK
DL	R8S3.1.0	FIRST	-2.4	0.689	1.0000	S-REG8	PB2ST	OK
DL	R8S3.1.0	INT1	-2.4	0.689	1.0000	S-REG8	PB2ST	OK
DL	R8S3.1.0	INT1	-2.4	0.689	1.0000	S-REG8	PB2ST	OK
DL	R8S3.1.0	INT1	-2.4	0.689	1.0000	S-REG8	PB2ST	OK
DL	R8S3.1.0	INT2	-2.4	0.634	1.0000	S-REG8	PB2ST	OK
DL	R8S3.1.0	INT2	-2.4	0.634	1.0000	S-REG8	PB2ST	OK
DL	R8S3.1.0	INT2	-2.4	1.041	1.0000	S-REG8	PB2ST	OK
DL	R8S4.1.0-1	FIRST	0.0	0.345	1.0000	S-REG8	PB3PT	OK
DL	R8S4.1.0-1	FIRST	-0.0	0.267	1.0000	S-REG8	PB3ST	OK
DL	R8S4.1.0-1	FIRST	-0.1	0.888	1.0000	S-REG8	PB3ST	OK
DL	R8S4.1.0	FIRST	0.0	0.337	1.0000	S-REG8	PB3PT	OK
DL	R8S4.1.0	FIRST	-0.0	0.279	1.0000	S-REG8	PB3ST	OK

INIT	DAM	STAGE	HEEL degree	MINGM m	SFACSOL	DCRI	FLUNOP	STAT
DL	R8S4.1.0	FIRST	-0.2	0.818	1.0000	S-REG8	PB3ST	OK
DL	R8S5.1.0-1	FIRST	0.0	0.408	1.0000	S-REG8	PB4PT	OK
DL	R8S5.1.0-1	FIRST	0.0	0.244	1.0000	S-REG8	PB4PT	OK
DL	R8S5.1.0-1	FIRST	0.0	0.681	1.0000	S-REG8	PB4PT	OK
DL	R8S5.1.0	FIRST	0.0	0.408	1.0000	S-REG8	PB4PT	OK
DL	R8S5.1.0	FIRST	0.0	0.181	1.0000	S-REG8	PB4PT	OK
DL	R8S5.1.0	FIRST	0.0	0.521	1.0000	S-REG8	PB4PT	OK
DL	R8S6.1.0-1	FIRST	0.0	0.357	1.0000	S-REG8	PB7PT	OK
DL	R8S6.1.0-1	FIRST	0.0	0.587	1.0000	S-REG8	PB6PT	OK
DL	R8S6.1.0-1	FIRST	0.0	0.939	1.0000	S-REG8	PB6PT	OK
DL	R8S6.1.0	FIRST	0.0	0.427	1.0000	S-REG8	PB6PT	OK
DL	R8S6.1.0	FIRST	0.0	0.423	1.0000	S-REG8	PB6PT	OK
DL	R8S6.1.0	FIRST	0.0	0.552	1.0000	S-REG8	PB6PT	OK
DL	R8S7.1.0-1	FIRST	0.0	0.431	1.0000	S-REG8	PB6PT	OK
DL	R8S7.1.0-1	FIRST	0.0	0.251	1.0000	S-REG8	PB6PT	OK
DL	R8S7.1.0-1	FIRST	0.0	0.763	1.0000	S-REG8	PB6PT	OK
DL	R8S7.1.0	FIRST	0.0	0.560	1.0000	S-REG8	PB6PT	OK
DL	R8S7.1.0	FIRST	0.0	0.177	1.0000	S-REG8	PB6PT	OK
DL	R8S7.1.0	FIRST	0.0	0.537	1.0000	S-REG8	PB6PT	OK
DL	R8S8.1.0-1	FIRST	0.0	0.435	1.0000	S-REG8	PB8PT	OK
DL	R8S8.1.0-1	FIRST	0.0	0.310	1.0000	S-REG8	PB8PT	OK
DL	R8S8.1.0-1	FIRST	0.0	0.943	1.0000	S-REG8	PB7PT	OK
DL	R8S8.1.0	FIRST	0.0	0.470	1.0000	S-REG8	PB8PT	OK
DL	R8S8.1.0	FIRST	0.0	0.291	1.0000	S-REG8	PB7PT	OK
DL	R8S8.1.0	FIRST	0.0	0.841	1.0000	S-REG8	PB7PT	OK
DL	R8S9.1.0-1	FIRST	0.0	0.591	1.0000	S-REG8	PB9PT	OK
DL	R8S9.1.0-1	FIRST	0.0	0.396	1.0000	S-REG8	PB9PT	OK
DL	R8S9.1.0-1	FIRST	0.0	1.021	1.0000	S-REG8	PB9PT	OK
DL	R8S9.1.0	FIRST	-1.4	0.673	1.0000	S-REG8	PB9ST	OK
DL	R8S9.1.0	FIRST	-1.4	0.544	1.0000	S-REG8	PB9ST	OK
DL	R8S9.1.0	FIRST	-1.2	0.880	1.0000	S-REG8	PB9ST	OK
DL	R8S9.1.0	CROSS	0.0	0.701	1.0000	S-REG8	PB9PT	OK
DL	R8S9.1.0	CROSS	0.0	0.701	1.0000	S-REG8	PB9PT	OK
DL	R8S9.1.0	CROSS	0.0	0.935	1.0000	S-REG8	PB9PT	OK
DL	R8S10.1.0-1	FIRST	0.0	0.494	1.0000	S-REG8	PB10PT	OK
DL	R8S10.1.0-1	FIRST	0.0	0.384	1.0000	S-REG8	PB10PT	OK
DL	R8S10.1.0-1	FIRST	0.0	1.173	1.0000	S-REG8	PB10PT	OK
DL	R8S10.1.0	FIRST	0.0	0.498	1.0000	S-REG8	PB10PT	OK
DL	R8S10.1.0	FIRST	0.0	0.373	1.0000	S-REG8	PB10PT	OK
DL	R8S10.1.0	FIRST	0.0	1.107	1.0000	S-REG8	PB10PT	OK
DL	R8S11.1.0-1	FIRST	-0.4	0.130	1.0000	S-REG8	PB10ST	OK
DL	R8S11.1.0-1	FIRST	-0.8	0.181	1.0000	S-REG8	PB10ST	OK
DL	R8S11.1.0-1	FIRST	-1.6	0.959	1.0000	S-REG8	PB10ST	OK
DL	R8S11.1.0	FIRST	-0.4	0.130	1.0000	S-REG8	PB10ST	OK
DL	R8S11.1.0	FIRST	-0.8	0.181	1.0000	S-REG8	PB10ST	OK
DL	R8S11.1.0	FIRST	-1.6	0.959	1.0000	S-REG8	PB10ST	OK
DL	R8S12.1.0-1	FIRST	0.0	0.380	1.0000	S-REG8	PB12PT	OK
DL	R8S12.1.0-1	FIRST	0.0	0.595	1.0000	S-REG8	PB12PT	OK
DL	R8S12.1.0-1	FIRST	0.0	1.005	1.0000	S-REG8	PB12PT	OK
DL	R8S12.1.0	FIRST	-0.6	0.423	1.0000	S-REG8	PB12ST	OK
DL	R8S12.1.0	FIRST	-1.4	0.701	1.0000	S-REG8	PB12ST	OK
DL	R8S12.1.0	FIRST	-2.3	0.939	1.0000	S-REG8	PB12ST	OK
DL	R8S12.1.0	CROSS	-1.4	0.810	1.0000	S-REG8	PB12ST	OK
DL	R8S12.1.0	CROSS	0.0	0.619	1.0000	S-REG8	PB12PT	OK

INIT	DAM	STAGE	HEEL degree	MINGM m	SFACSOL	DCRI	FLUNOP	STAT
DL	R8S12.1.0	CROSS	0.0	0.841	1.0000	S-REG8	PB12PT	OK
DL	R8S13.1.0-1	FIRST	0.0	0.322	1.0000	S-REG8	PB12PT	OK
DL	R8S13.1.0-1	FIRST	0.0	0.529	1.0000	S-REG8	PB12PT	OK
DL	R8S13.1.0-1	FIRST	0.0	1.001	1.0000	S-REG8	PB12PT	OK
DL	R8S13.1.0	FIRST	0.0	0.361	1.0000	S-REG8	PB12PT	OK
DL	R8S13.1.0	FIRST	0.0	0.533	1.0000	S-REG8	PB12PT	OK
DL	R8S13.1.0	FIRST	0.0	0.869	1.0000	S-REG8	PB12PT	OK
DL	R8S14.1.0-1	FIRST	0.0	0.084	1.0000	S-REG8	-	OK
DL	R8S14.1.0-1	FIRST	0.0	0.138	1.0000	S-REG8	-	OK
DL	R8S14.1.0-1	FIRST	0.0	0.556	1.0000	S-REG8	-	OK
DL	R8S14.1.0	FIRST	0.0	0.084	1.0000	S-REG8	-	OK
DL	R8S14.1.0	FIRST	0.0	0.138	1.0000	S-REG8	-	OK
DL	R8S14.1.0	FIRST	0.0	0.556	1.0000	S-REG8	-	OK
DL	R8S15.1.0-1	FIRST	0.0	0.060	1.0000	S-REG8	-	OK
DL	R8S15.1.0-1	FIRST	0.0	0.052	1.0000	S-REG8	-	OK
DL	R8S15.1.0-1	FIRST	0.0	0.291	1.0000	S-REG8	-	OK
DL	R8S15.1.0	FIRST	0.0	0.029	1.0000	S-REG8	-	OK
DL	R8S15.1.0	FIRST	0.0	0.009	1.0000	S-REG8	-	OK
DL	R8S15.1.0	FIRST	0.0	0.248	1.0000	S-REG8	-	OK
DL	R8S16.1.0	FIRST	0.0	0.048	1.0000	S-REG8	-	OK
DL	R8S16.1.0	FIRST	0.0	0.029	1.0000	S-REG8	-	OK
DL	R8S16.1.0	FIRST	0.0	0.248	1.0000	S-REG8	-	OK
DL	R8S1-2.0.0	FIRST	0.0	0.169	1.0000	S-REG8	PB2PT	OK
DL	R8S1-2.0.0	FIRST	0.0	0.255	1.0000	S-REG8	PB2PT	OK
DL	R8S1-2.0.0	FIRST	0.0	0.396	1.0000	S-REG8	PB2PT	OK
DL	R8S1-2.0.0	INT1	0.0	0.416	1.0000	S-REG8	PB2PT	OK
DL	R8S1-2.0.0	INT1	0.0	0.416	1.0000	S-REG8	PB2PT	OK
DL	R8S1-2.0.0	INT1	0.0	0.736	1.0000	S-REG8	PB2PT	OK
DL	R8S2-3.1.0	FIRST	-0.7	0.365	1.0000	S-REG8	PB3ST	OK
DL	R8S2-3.1.0	FIRST	-1.7	0.658	1.0000	S-REG8	PB3ST	OK
DL	R8S2-3.1.0	FIRST	-3.6	1.216	1.0000	S-REG8	PB3ST	OK
DL	R8S2-3.1.0	INT1	-3.6	1.216	1.0000	S-REG8	PB3ST	OK
DL	R8S2-3.1.0	INT1	-3.6	1.216	1.0000	S-REG8	PB3ST	OK
DL	R8S2-3.1.0	INT1	-3.6	1.216	1.0000	S-REG8	PB3ST	OK
DL	R8S2-3.1.0	INT2	-3.5	1.033	1.0000	S-REG8	PB3ST	OK
DL	R8S2-3.1.0	INT2	-3.5	1.033	1.0000	S-REG8	PB3ST	OK
DL	R8S3-4.1.0-1	FIRST	-0.9	0.521	1.0000	S-REG8	PB2ST	OK
DL	R8S3-4.1.0-1	FIRST	-2.5	0.689	1.0000	S-REG8	PB2ST	OK
DL	R8S3-4.1.0-1	FIRST	-3.2	1.330	1.0000	S-REG8	PB2ST	OK
DL	R8S3-4.1.0-1	INT1	-3.2	1.330	1.0000	S-REG8	PB2ST	OK
DL	R8S3-4.1.0-1	INT1	-3.2	1.330	1.0000	S-REG8	PB2ST	OK
DL	R8S3-4.1.0-1	INT1	-3.2	1.330	1.0000	S-REG8	PB2ST	OK
DL	R8S3-4.1.0-1	INT2	-3.2	1.267	1.0000	S-REG8	PB2ST	OK
DL	R8S3-4.1.0-1	INT2	-3.2	1.267	1.0000	S-REG8	PB2ST	OK
DL	R8S3-4.1.0	FIRST	-0.8	0.513	1.0000	S-REG8	PB2ST	OK
DL	R8S3-4.1.0	FIRST	-2.5	0.658	1.0000	S-REG8	PB2ST	OK
DL	R8S3-4.1.0	FIRST	-3.1	1.275	1.0000	S-REG8	PB2ST	OK
DL	R8S3-4.1.0	INT1	-3.1	1.275	1.0000	S-REG8	PB2ST	OK
DL	R8S3-4.1.0	INT1	-3.1	1.275	1.0000	S-REG8	PB2ST	OK
DL	R8S3-4.1.0	INT1	-3.1	1.275	1.0000	S-REG8	PB2ST	OK
DL	R8S3-4.1.0	INT2	-3.1	1.212	1.0000	S-REG8	PB2ST	OK
DL	R8S3-4.1.0	INT2	-3.1	1.212	1.0000	S-REG8	PB2ST	OK
DL	R8S4-5.1.0-1	FIRST	0.0	0.736	1.0000	S-REG8	PB3PT	OK
DL	R8S4-5.1.0-1	FIRST	-0.5	0.591	1.0000	S-REG8	PB3ST	OK

INIT	DAM	STAGE	HEEL degree	MINGM m	SFACSOL	DCRI	FLUNOP	STAT
DL	R8S4-5.1.0-1	FIRST	-0.6	1.177	1.0000	S-REG8	PB3ST	OK
DL	R8S4-5.1.0-2	FIRST	0.0	0.740	1.0000	S-REG8	PB3PT	OK
DL	R8S4-5.1.0-2	FIRST	-0.5	0.587	1.0000	S-REG8	PB3ST	OK
DL	R8S4-5.1.0-2	FIRST	-0.6	1.240	1.0000	S-REG8	PB3ST	OK
DL	R8S4-5.1.0	FIRST	0.0	0.701	1.0000	S-REG8	PB3PT	OK
DL	R8S4-5.1.0	FIRST	-0.6	0.580	1.0000	S-REG8	PB3ST	OK
DL	R8S4-5.1.0	FIRST	-0.7	1.021	1.0000	S-REG8	PB3ST	OK
DL	R8S5-6.1.0-1	FIRST	0.0	0.755	1.0000	S-REG8	PB4PT	OK
DL	R8S5-6.1.0-1	FIRST	0.0	0.837	1.0000	S-REG8	PB4PT	OK
DL	R8S5-6.1.0-1	FIRST	0.0	1.334	1.0000	S-REG8	PB4PT	OK
DL	R8S5-6.1.0	FIRST	0.0	1.013	1.0000	S-REG8	PB4PT	OK
DL	R8S5-6.1.0	FIRST	0.0	0.677	1.0000	S-REG8	PB4PT	OK
DL	R8S5-6.1.0	FIRST	0.0	0.966	1.0000	S-REG8	PB4PT	OK
DL	R8S6-7.1.0-1	FIRST	0.0	0.787	1.0000	S-REG8	PB6PT	OK
DL	R8S6-7.1.0-1	FIRST	0.0	0.845	1.0000	S-REG8	PB6PT	OK
DL	R8S6-7.1.0-1	FIRST	0.0	1.189	1.0000	S-REG8	PB6PT	OK
DL	R8S6-7.1.0	FIRST	0.0	0.779	1.0000	S-REG8	PB6PT	OK
DL	R8S6-7.1.0	FIRST	0.0	0.681	1.0000	S-REG8	PB6PT	OK
DL	R8S6-7.1.0	FIRST	0.0	0.791	1.0000	S-REG8	PB6PT	OK
DL	R8S7-8.1.0-1	FIRST	0.0	0.837	1.0000	S-REG8	PB6PT	OK
DL	R8S7-8.1.0-1	FIRST	0.0	0.611	1.0000	S-REG8	PB6PT	OK
DL	R8S7-8.1.0-1	FIRST	0.0	1.431	1.0000	S-REG8	PB6PT	OK
DL	R8S7-8.1.0	FIRST	0.0	0.912	1.0000	S-REG8	PB6PT	OK
DL	R8S7-8.1.0	FIRST	0.5	0.572	1.0000	S-REG8	PB6PT	OK
DL	R8S7-8.1.0	FIRST	0.0	1.115	1.0000	S-REG8	PB6PT	OK
DL	R8S8-9.1.0-1	FIRST	0.0	1.029	1.0000	S-REG8	PB9PT	OK
DL	R8S8-9.1.0-1	FIRST	1.0	0.806	1.0000	S-REG8	PB9PT	OK
DL	R8S8-9.1.0-1	FIRST	0.0	1.666	1.0000	S-REG8	PB9PT	OK
DL	R8S8-9.1.0	FIRST	-2.4	1.169	1.0000	S-REG8	PB9ST	OK
DL	R8S8-9.1.0	FIRST	-3.1	0.959	1.0000	S-REG8	PB9ST	OK
DL	R8S8-9.1.0	FIRST	-1.8	1.419	1.0000	S-REG8	PB9ST	OK
DL	R8S8-9.1.0	CROSS	0.0	1.232	1.0000	S-REG8	PB9PT	OK
DL	R8S8-9.1.0	CROSS	0.0	1.232	1.0000	S-REG8	PB9PT	OK
DL	R8S8-9.1.0	CROSS	0.0	1.478	1.0000	S-REG8	PB9PT	OK
DL	R8S9-10.1.0-1	FIRST	0.0	1.107	1.0000	S-REG8	PB10PT	OK
DL	R8S9-10.1.0-1	FIRST	1.7	0.916	1.0000	S-REG8	PB10PT	OK
DL	R8S9-10.1.0-1	FIRST	0.0	1.919	1.0000	S-REG8	PB10PT	OK
DL	R8S9-10.1.0	FIRST	-2.7	1.185	1.0000	S-REG8	PB10ST	OK
DL	R8S9-10.1.0	FIRST	-4.2	1.091	1.0000	S-REG8	PB10ST	OK
DL	R8S9-10.1.0	FIRST	-2.3	1.712	1.0000	S-REG8	PB10ST	OK
DL	R8S9-10.1.0	CROSS	0.0	1.529	1.0000	S-REG8	PB10PT	OK
DL	R8S9-10.1.0	CROSS	0.0	1.529	1.0000	S-REG8	PB10PT	OK
DL	R8S9-10.1.0	CROSS	0.0	1.771	1.0000	S-REG8	PB10PT	OK
DL	R8S10-11.1.0-1	FIRST	-0.6	0.541	1.0000	S-REG8	PB9ST	OK
DL	R8S10-11.1.0-1	FIRST	-1.3	0.490	1.0000	S-REG8	PB9ST	OK
DL	R8S10-11.1.0	FIRST	-0.6	0.544	1.0000	S-REG8	PB9ST	OK
DL	R8S10-11.1.0	FIRST	-1.3	0.486	1.0000	S-REG8	PB9ST	OK
DL	R8S11-12.1.0-1	FIRST	-1.1	0.490	1.0000	S-REG8	PB12ST	OK
DL	R8S11-12.1.0-1	FIRST	-2.6	0.939	1.0000	S-REG8	PB12ST	OK
DL	R8S11-12.1.0-1	FIRST	-6.5	1.794	1.0000	S-REG8	PB12ST	OK
DL	R8S11-12.1.0-1	CROSS	-5.4	1.662	1.0000	S-REG8	PB12ST	OK
DL	R8S11-12.1.0-1	CROSS	-3.5	1.431	1.0000	S-REG8	PB12ST	OK
DL	R8S11-12.1.0-2	FIRST	-0.6	0.451	1.0000	S-REG8	PB12ST	OK
DL	R8S11-12.1.0-2	FIRST	-1.2	0.802	1.0000	S-REG8	PB12ST	OK

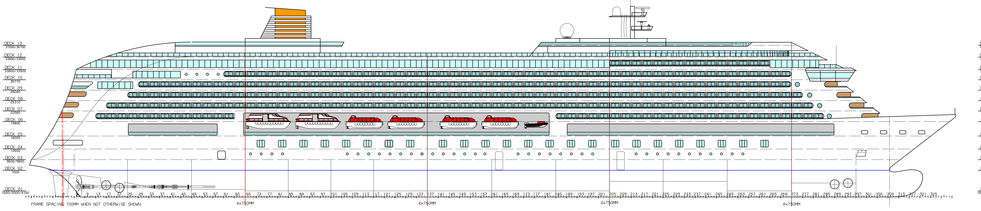
INIT	DAM	STAGE	HEEL degree	MINGM m	SFACSOL	DCRI	FLUNOP	STAT
DL	R8S11-12.1.0	FIRST	-1.1	0.490	1.0000	S-REG8	PB12ST	OK
DL	R8S11-12.1.0	FIRST	-2.6	0.939	1.0000	S-REG8	PB12ST	OK
DL	R8S11-12.1.0	FIRST	-6.5	1.794	1.0000	S-REG8	PB12ST	OK
DL	R8S11-12.1.0	CROSS	-5.4	1.662	1.0000	S-REG8	PB12ST	OK
DL	R8S11-12.1.0	CROSS	-3.5	1.431	1.0000	S-REG8	PB12ST	OK
DL	R8S12-13.1.0-1	FIRST	0.0	0.607	1.0000	S-REG8	-	OK
DL	R8S12-13.1.0-1	FIRST	0.0	1.080	1.0000	S-REG8	-	OK
DL	R8S12-13.1.0-1	FIRST	0.0	1.818	1.0000	S-REG8	-	OK
DL	R8S12-13.1.0	FIRST	-0.9	0.716	1.0000	S-REG8	-	OK
DL	R8S12-13.1.0	FIRST	-2.5	1.330	1.0000	S-REG8	-	OK
DL	R8S12-13.1.0	FIRST	-3.6	1.619	1.0000	S-REG8	-	OK
DL	R8S12-13.1.0	CROSS	-1.9	1.474	1.0000	S-REG8	-	OK
DL	R8S12-13.1.0	CROSS	0.0	1.287	1.0000	S-REG8	-	OK
DL	R8S12-13.1.0	CROSS	0.0	1.537	1.0000	S-REG8	-	OK
DL	R8S13-14.1.0-1	FIRST	0.0	0.365	1.0000	S-REG8	PB12PT	OK
DL	R8S13-14.1.0-1	FIRST	0.0	0.552	1.0000	S-REG8	PB12PT	OK
DL	R8S13-14.1.0-2	FIRST	0.0	0.334	1.0000	S-REG8	PB12PT	OK
DL	R8S13-14.1.0-2	FIRST	0.0	0.619	1.0000	S-REG8	PB12PT	OK
DL	R8S13-14.1.0-2	FIRST	0.0	1.439	1.0000	S-REG8	PB12PT	OK
DL	R8S13-14.1.0	FIRST	0.0	0.365	1.0000	S-REG8	PB12PT	OK
DL	R8S13-14.1.0	FIRST	0.0	0.552	1.0000	S-REG8	PB12PT	OK
DL	R8S14-15.1.0-1	FIRST	0.0	0.041	1.0000	S-REG8	-	OK
DL	R8S14-15.1.0-1	FIRST	0.0	0.084	1.0000	S-REG8	-	OK
DL	R8S14-15.1.0-1	FIRST	0.0	0.580	1.0000	S-REG8	-	OK
DL	R8S14-15.1.0-2	FIRST	0.0	0.087	1.0000	S-REG8	-	OK
DL	R8S14-15.1.0-2	FIRST	0.0	0.134	1.0000	S-REG8	-	OK
DL	R8S14-15.1.0-2	FIRST	0.0	0.607	1.0000	S-REG8	-	OK
DL	R8S14-15.1.0	FIRST	0.0	0.041	1.0000	S-REG8	-	OK
DL	R8S14-15.1.0	FIRST	0.0	0.084	1.0000	S-REG8	-	OK
DL	R8S14-15.1.0	FIRST	0.0	0.580	1.0000	S-REG8	-	OK
DL	R8S15-16.1.0-1	FIRST	0.0	0.029	1.0000	S-REG8	-	OK
DL	R8S15-16.1.0-1	FIRST	0.0	-0.002	1.0000	S-REG8	-	OK
DL	R8S15-16.1.0-1	FIRST	0.0	0.232	1.0000	S-REG8	-	OK
DL	R8S15-16.1.0	FIRST	0.0	0.005	1.0000	S-REG8	-	OK
DL	R8S15-16.1.0	FIRST	0.0	-0.041	1.0000	S-REG8	-	OK
DL	R8S15-16.1.0	FIRST	0.0	0.189	1.0000	S-REG8	-	OK

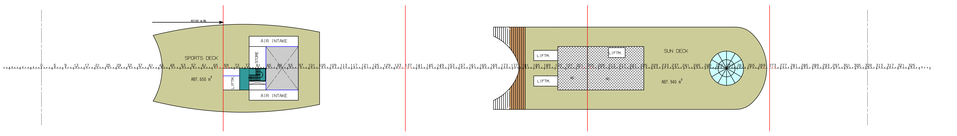
14 Used Abbreviations

AP	aft perpendicular
CB	block coefficient
CM	midship section coeff.
CP	prismatic coefficient
CW	waterplane coefficient
DISP	total displacement
DISPM	moulded displacement
dGM	free surface correction of GM
DGZ	reduction of GZ by free surfaces
DWL	design waterline
DW	deadweight
FILL	filling of tank
FP	forward perpendicular
FRA	total frame area
FRAM	moulded frame area
FRMIN	Min. Frame
FRMAX	Max. Frame
Frs.mom.	free surface moment
FSM	free surface moment
FSMOM	free surface moment
GM	corrected metacentric height
GM0	initial metacentric height
GZ	righting arm
IX	ix of surface
IY	iy of surface
KG	vertical centre of gravity corrected for free surfaces
KM	transv. metac. height
KML	long. metac. height
KMT	transv. metac. height
KN	crosscurves of stability
LCA	long. centre of flotation
LCB	long. centre of buoy.
LCG	long. centre of gravity
LMA	longit moment of surface
LMV	longit. moment of volume
LWL	length of waterline
MASS	mass of load in tank
MCT	moment to change trim
T	draught, moulded
TCB	transverse centre of buoyancy
TCG	transverse centre of gravity
TCP	immersion/cm
TK	draught below keel
TMA	transv moment of surface
TMV	transv. moment of volume
TRF	trim factor
TRFA	trim factor aft
TRFF	trim factor fore
VCB	vertical centre of buoyancy
VCG	vertical centre of gravity
VMV	vert. moment of volume
VOLM	volume moulded
VOLT	total volume
WLA	waterline area
WSA	wetted surface area
KSU	Friction Coefficient

K	Friction Coefficient
NR	Number
Avail.	Available Diameter
Req. D	Required Diameter for 900 sec EQT
EQT	Equalization Time

14. Annex 4 General Arrangement Plan





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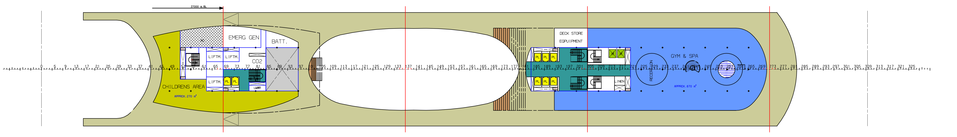

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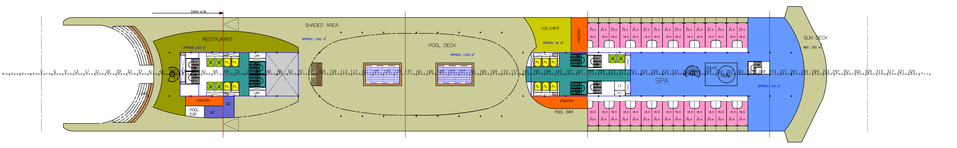

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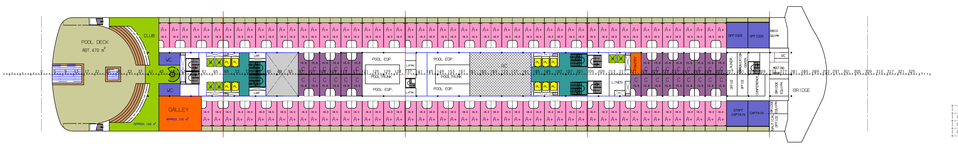
33800/33500

NUMBER OF CABINS

NAME	NUMBER
A+ BALCONY CABIN	50



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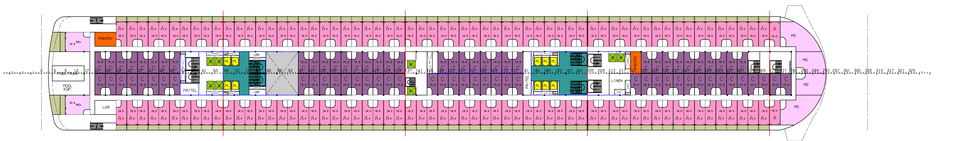
NUMBER OF CABINS

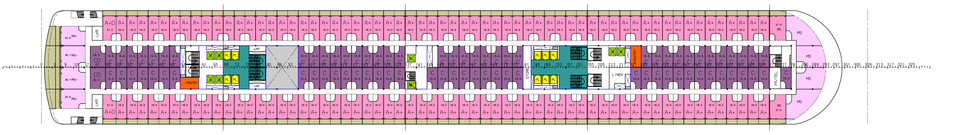
NAME	NUMBER
A+ BALCONY CABIN	102
C INSIDE CABIN	29
CA CAPTAIN CLASS	4



Deck 09
28040

NUMBER OF CABINS

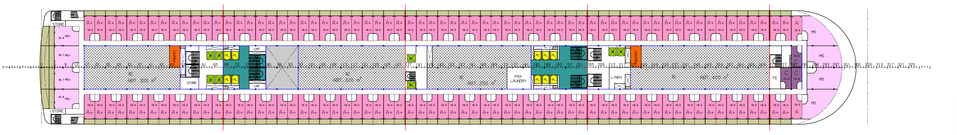
NAME	NUMBER
A WINDOW CABIN	2
A+ BALCONY CABIN	122
C INSIDE CABIN	16
MS+ MINI SUITE BALCO	2
MS MINI SUITE	4



Deck 08
25310

NUMBER OF CABINS

NAME	NUMBER
A+ BALCONY CABIN	122
A+D BALCONY CABIN D1	2
C INSIDE CABIN	77
CD INSIDE CABIN D15	2
MS+ MINI SUITE BALCO	6
MS MINI SUITE	4



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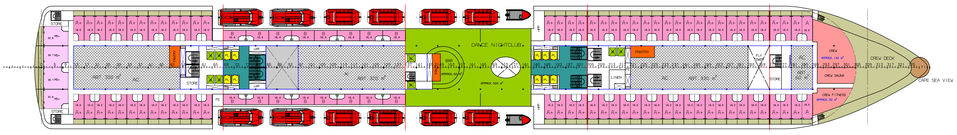
22580

NUMBER OF CABINS

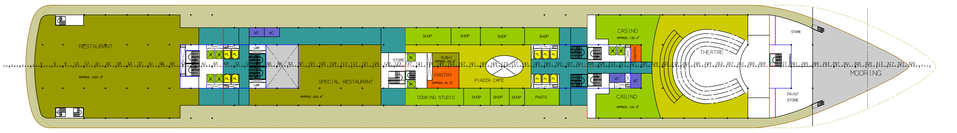
NAME	NUMBER
A WINDOW CABIN	2
A+ BALCONY CABIN	132
C INSIDE CABIN	3
MS+ MINI SUITE BALCO	4
MS MINI SUITE	4



Deck 06
19800

NUMBER OF CABINS

NAME	NUMBER
A WINDOW CABIN	2
A+ BALCONY CABIN	74
B WINDOW CABIN	16
MS+ MINI SUITE BALCO	4



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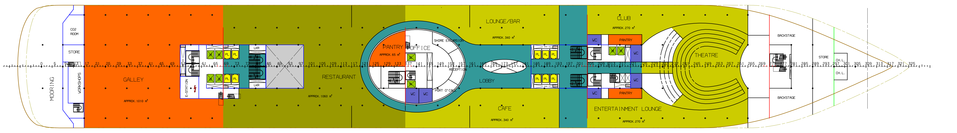

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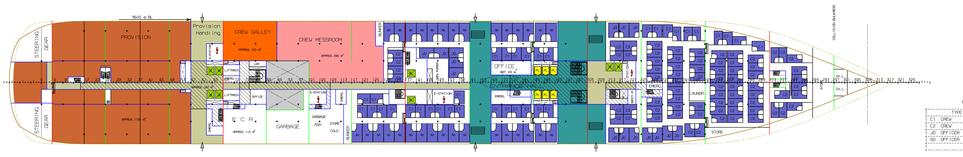


Deck 03
9600/9800

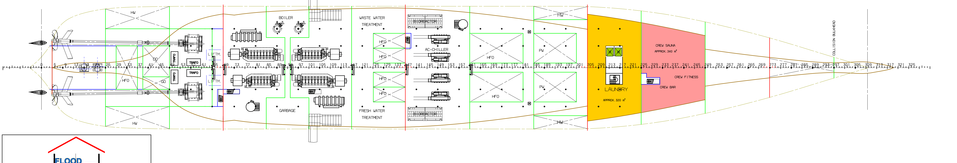
NUMBER OF CABINS

TYPE	NUMBER	TOTAL
C1 CREW	35	
C2 CREW	74	
JO OFFICER	15	
SO OFFICER	31	
		155

Deck 02
7000

NUMBER OF CABINS

TYPE	NUMBER	TOTAL
C1 CREW	110	
C2 CREW	212	
		322



Deck 01
1600/2000/4100

NEWBUILDING PROJECT	K1769-A1
	CRUISE VESSEL
MAIN DIMENSIONS	
LENGTH OVER ALL, APPROX.	238.00 M
LENGTH BETW. PERP.	216.80 M
BREADTH MOULDED	32.20 M
HEIGHT BULKHEAD DECK	9.80 M
DESIGN DRAFT APPROX.	7.20 M
GROSS TONNAGE	63.000 GT

MEYER WERFT

SCALE	1:400
DATE	17.03.2009

ALL FLOOR SPACE INFORMATIONS MEASURED STEEL TO STEEL.
ALL FLOOR SPACE INFORMATIONS APPROXIMATELY.

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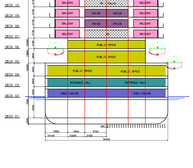
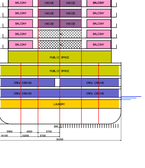
PRELIMINARY

PASSENGER CABINS:

MS+	MINI SUITE BALCONY	16
MS	MINI SUITE	12
A+	BALCONY CABIN	582
A+D	BALCONY CABIN D15&DL	2
A	WINDOW CABIN	6
B	WINDOW CABIN	16
BD	WINDOW CABIN D15&DL	0
C	INSIDE CABIN	187
CD	INSIDE CABIN D15&DL	2
TOTAL PASSENGER CABINS:		823

CREW CABINS:

CA	CAPTAIN CLASS	4
SO	SENIOR OFFICER	31
JO	JUNIOR OFFICER	15
C1	CREW SINGLE	45
C2	CREW DOUBLE	286
TOTAL CREW CABINS:		381
TOTAL CREW BERTHS:		667