

#### MASTER

Moisture transport and shape stability of wood exposed to humidity variations a numerical study

Reijnen, S.

Award date: 2012

Link to publication

#### Disclaimer

This document contains a student thesis (bachelor's or master's), as authored by a student at Eindhoven University of Technology. Student theses are made available in the TU/e repository upon obtaining the required degree. The grade received is not published on the document as presented in the repository. The required complexity or quality of research of student theses may vary by program, and the required minimum study period may vary in duration.

#### General rights

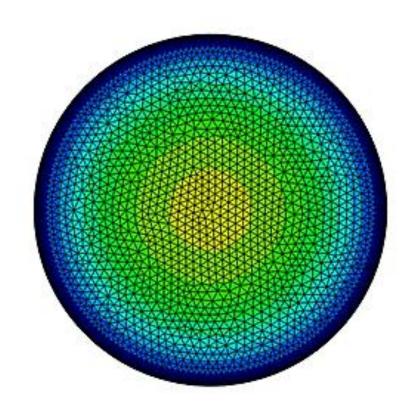
Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
You may not further distribute the material or use it for any profit-making activity or commercial gain

# MOISTURE TRANSPORT AND SHAPE STABILITY OF WOOD EXPOSED TO HUMIDITY VARIATIONS

# - A numerical study

Diploma thesis by STIJN REIJNEN





#### Department of Structural Design

The Faculty of the Built Environment

TUe Technische Universiteit Eindhoven University of Technology

# MOISTURE TRANSPORT AND SHAPE STABILITY OF WOOD EXPOSED TO HUMIDITY VARIATIONS- A numerical study

Diploma thesis by

STIJN REIJNEN

Version: 1e 31-08-2012

Version 2<sup>nd</sup>: 18-10-2012

Version 3th: 12-11-2012

Supervisors:

Prof. Dr. ir. André Jorissen, Structural Design, TU/ Eindhoven Dr. ir. Henk Schellen, Building Physics, TU/ Eindhoven Prof. Dr. ir. Akke Suiker, Structural Design, TU/ Eindhoven Dr. Roger Groves, Aerospace Engineering, TU/ Delft Dr. Bart Ankersmit, ICN, Amsterdam

# Abstract

Due to its hygroscopic behaviour, wood is sensitive to variations in humidity. As a consequence of changing environmental conditions and the hygro-expansional behaviour of wood it tends to deform. When these deformations exceed the elastic limit, it could lead to permanent deformations. Often a substantial part of a museum's collection is painted on wood, so called panel paintings. Nowadays, methods of conservation are mainly based upon practical experience which resulted in strict condition requirements. More knowledge about the behaviour of these panel paintings as a result of changing environmental conditions could lead to a more permanent solution and a reduction in costs.

Without numerical simulation it would be impossible to predict the deformation due to the complex behaviour of wood, when exposed to humidity variations. This master's dissertation examines the possibility of ABAQUS CAE standard to model moisture movement and shape stability.

Several finite element models were created and exposed to a step change of 70% to 30% relative humidity (RH). This report is composed in a constructive order. Part 1: commencing with the introduction of the theoretical background. Part 2: The possibility to perform a mass diffusion analysis within a multi-physical environment using the toolbox for a heat transfer. To verify the accuracy of this procedure, a numerical model has been developed, based on research done by Jakiela, Bratasz and Kozlowski, 2008 [37]. Similar to Jakiela, Bratasz and Kozlowski, a lime wood cylindrical model has been developed and exposed to a sudden change of 70% to 30% relative humidity. Corresponding results were obtained with respect to moisture transport and stress field development. The calculated results are extensively discussed and some critical annotations are made.

Panel paintings are made from sawn wood. To smoothen the surface, several layers of gesso (mixture of hide glue, gypsum or sometimes ground chalk and water) and ossein (lime made from bones) were applied, after considerable sanding the panel surface becomes perfectly smooth. Shape stability of sawn wood depends strongly on the initial orientation within the stem. In the last chapter of this master's dissertation, the shape stability of sawn wood is examined. Structural orientations such as the conical angle, growth ring and spiral grain as well as mechanical properties such as the modulus of elasticity, modulus of shear and hygroexpansional coefficients play a significant role in shape stability. Three numerical models were developed to investigate the influence of these structural components and mechanical properties on shape stability. The results demonstrated how twist, crook, cup and bow deformation depend on these parameters. It is concluded that the influence of these parameters not only depends on the quantity of the parameter, but also on the capability of the wood board to adapt this material parameter.

Finally, the influence of a gesso layer on the shape stability is examined. Changing diffusivity, elasticity and thickness seems to affect the shape stability enormously. As a result of the interaction of these parameters, the behaviour of the wood board is different from the board without a gesso layer. Depending on the diffusivity of the gesso layer, it can lead to strong short time behaviour.

**Keywords:** panel painting, finite element method, moisture transport, strain development, shape stability, heat transfer, mass diffusion, driving potential, shrinking, swelling, ABAQUS

# Acknowledgements

This diploma thesis was written during the summer of 2012 at the Division of Structural Design and Construction Technology at the Technical University of Eindhoven, The Netherlands.

Firstly, I want to thank my supervisors Prof. André Jorissen, Dr. Henk Schellen and Prof. Akke Suiker for their expert guidance, support and most importantly, allowing me to explore an unknown, new and interesting field of research. I wish to thank my supervisors Dr. Roger Groves from the Delft University of Technology for his time and helping me in the early stage with technical information and Dr. Bart Ankersmit from the ICN for his interest and providing the project with test material.

A special thanks to the "Sheriff of Melbourne" Loy Kop, for all the time he spent reviewing the thesis English.

Nijmegen, 27 August 2012

Stijn Reijnen

#### Samenvatting

Als gevolg van hygroscopiciteit is hout gevoelig voor wisselingen in de relatieve luchtvochtigheid. Ten gevolge van wisselende omgevingscondities en de hygroexpansie van hout kan vervorming optreden. Wanneer deze vervormingen de elasticiteitsgrens voorbij streven, zal permanente vervorming het gevolg zijn.

Veelal is een aanzienlijk deel van de collectie van een museum op hout geschilderd, een zogenaamd paneelschilderij. De huidige conservering methoden zijn veelal gebaseerd op jaren van praktische ervaring dit heeft geresulteerd in strenge eisen aan de directe omgeving waarin het paneel zich bevindt. Meer wetenschap betreffende het gedrag van hout als gevolg van wisselende klimatologische omstandigheden kunnen aanleiding geven tot een betere en meer permanente oplossing. Zonder het gebruik van numerieke simulaties is het onmogelijk betrouwbare voorspellingen te doen met betrekking tot vervorming als gevolg van het complexe gedrag van hout wanneer het reageert op vochtveranderingen. Dit afstudeerwerk onderzoekt de mogelijkheid om met ABAQUS CAE vochttransport door hout te simuleren en de vormstabiliteit te onderzoeken, zonder gebruik te maken van subroutines.

Verschillende eindige elementenmodellen zijn ontwikkeld waarmee de reactie op een verandering van 70% naar 30% relatieve luchtvochtigheid (RH) is berekend. Dit afstudeerwerk is opbouwend chronologisch samengesteld. Deel 1: Theoretische achtergrond. Deel 2: wordt ingegaan op de mogelijkheid om vochttransport en vorm stabiliteit te simuleren met behulp van een warmte transportanalyse in plaats van een massa-diffusieanalyse in een multi-fysische omgeving. Ter verificatie van de correctheid van deze aanpak is een numeriek model ontwikkeld gebaseerd op eerder onderzoek van Jakiela, Bratasz en Kozlowski, 2008 [37]. Een eindig elementenmodel in de vorm van een cilinder van lindenhout is blootgesteld aan een verandering van 70% naar 30% relatieve luchtvochtigheid. De verkregen resultaten blijken in overeenstemming te zijn met het werk van Jakiela, Bratasz en Kozlowski, 2008 [37].

Beschilderde panelen zijn vaak gemaakt van planken. Om het oppervlak glad te krijgen worden verschillende lagen gesso en beenderlijm aangebracht, die na gestaag schuren perfect glad dient te worden. De vormstabiliteit van planken is sterk afhankelijk van de plaats welk het in de stam heeft gehad. De laatste hoofdstukken van dit afstudeerwerk hebben betrekking op vormstabiliteit. Het blijkt dat de constructieve opbouw zoals de conische vorm, jaarring oriëntatie en vezel oriëntatie maar ook mechanische eigenschappen zoals de elasticiteitmodulus, schuifmodulus en hygroexpansie coëfficiënten hier een belangrijke rol in spelen. Drie numerieke modellen zijn er ontwikkeld om deze constructieve en mechanische eigenschappen te onderzoeken met betrekking tot vormstabiliteit. Uit de resultaten wordt verklaard hoe twist-, krom-, cup- en buigvervorming wordt aangedreven. Er wordt geconcludeerd dat niet alleen de grootte van de parameter maar ook de mogelijkheid tot ontwikkeling van deze parameter, welk afhankelijk is van de initiale oriëntatie in de stam, een belangrijke rol speelt.

De invloed van een gessolaag met betrekking tot vormstabiliteit is onderzocht. Veranderingen in de diffusiecoëfficiënt, elasticiteit en dikte van de laag blijken grote gevolgen te hebben voor de vormstabiliteit. Als gevolg van een gessolaag ontstaat er in sommige gevallen zelf een geheel nieuw type vervorming die zonder gesso nooit zou optreden. Het aanbrengen van een gessolaag blijkt ook invloed te hebben op de initiële ontwikkeling van twist-, krom-, cup- en buigvervorming.

## Quantities and symbols

AH	=	Absolute Humidity $[kg/m^3]$
RH	=	Relative Humidity [%]
SH	=	Specific Humidity $[kg/m^3]$
SG	=	Specific Gravity [-]
MC	=	Moisture Content [%]
A	=	Area [ <i>m</i> <sup>2</sup> ]
а	=	Thermal diffusivity $[m^2 \cdot s^{-1}]$
$c_p$	=	Specific heat capacity $[J \cdot kg^{-1}K^{-1}]$
D	=	Diffusion coefficient $[m^2 \cdot s^{-1}]$
$D_{C}$	=	Moisture concentration diffusion coefficient $[m^2 \cdot s^{-1}]$
$D_u$	=	Moisture content diffusion coefficient $[kg\cdot m^{-1}\cdot s^{-1}]$
$D_P$	=	Water vapour pressure diffusion coefficient $[kg \cdot m^{-1} \cdot s^{-1} \cdot Pa^{-1}]$
$D_{_W}$ , $D_{_V}$	=	Water vapour content diffusion coefficient $[m^2 \cdot s^{-1}]$
$E_x$ , $E_y$	=	Elastic modulus $[N \cdot m^{-2}]$
$e_w$	=	Actual vapour pressure [Pa]
$e_{_W}^*$	=	Equilibrium vapour pressure [ <i>Pa</i> ]
$\mathcal{E}_{u}$	=	moisture induced strain [–]
G	=	Shear modulus $[N \cdot m^{-2}]$
8	=	Moisture flux at surface $[kg \cdot m^{-2}s^{-1}]$
h	=	Heat transfer coefficient $[W \cdot m^{-2}K^{-1}]$
J	=	Diffusion flux $[mol \cdot m^{-2}s^{-1}]$
k	=	Conductivity of the material $[W \cdot m^{^{-1}}K^{^{-1}}]$
$M_w$	=	Absolute quantity of water $[kg]$
$m_i$	=	Mass concentration $[kg]$
$m_{v}$	=	Mass of water vapour $[kg]$
m <sub>dry-air</sub>	=	Mass of dry air $[kg]$
$m_o$	=	Mass of water in the wood sample $[kg]$
$m_0$	=	Mass of the oven dry wood $[kg]$
$P_{w}$	=	Vapour pressure [Pa]
$P_{_{WS}}$	=	Equilibrium vapour pressure $[Pa]$
q	=	Density of heat flow rate $[W \cdot m^{-2}]$
$R_{g}$	=	Swollen volume density $[kg\cdot m^{-3}]$
S	=	Surface area (of material volume) $[m^2]$
S	=	Solubility [ppm]
S	=	Solubility [ - ]

$T_0$	=	Initial temperature $[K]$
$T_s$	=	Sink temperature [K]
т, <i>ө</i>	=	Temperature [K]
t	=	Time [s]
$\dot{U}$	=	Material time rate of internal energy $[J \cdot s^{-1}]$
и	=	Moisture content [%]
u <sub>f</sub>	=	Moisture content at fibre saturation point [%]
V	=	Volume $[m^3]$
$V_{air}$	=	Absolute volume $[m^3]$
$V_0$	=	Oven dry volume $[m^3]$
$W_0$	=	Oven dry mass [kg]
$W_m$	=	Mass of the wet wood $[kg]$
w	=	Water vapour content $[kg \cdot m^{-3}]$
x	=	Position [ <i>m</i> ]
α	=	Matrix of the hygroexpansional coefficients (swelling) [ - ]
$\alpha_{v}$	=	Volumetric swelling [%]
$\alpha_{t}$	=	Tangential swelling coefficient [-]
$\alpha_l$	=	longitudinal swelling coefficient [-]
$\alpha_r$	=	Radial swelling coefficient [-]
$\beta$	=	Moisture transfer coefficient $[kg \cdot m^{-2}s^{-1}]$
$eta_t$	=	Tangential volumetric shrinkage [-]
$\beta_r$	=	Radial volumetric shrinkage [-]
$\beta_{v}$	=	Volumetric shrinkage [-]
$oldsymbol{eta}_l$	=	longitudinal volumetric shrinkage [-]
γ	=	Shear modulus $[N \cdot m^{-2}]$
$\nabla T$	=	Temperature gradient $[K \cdot m^{-1}]$
$\Delta u$	=	Change of moisture content [%]
Е	=	Strain [-]
Ks	=	Soret factor [-]
λ	=	Thermal conductivity ( $k$ ) $[W \cdot m^{^{-1}}K^{^{-1}}]$
V	=	Poissons ratio [-]
ρ	=	Density $[kg \cdot m^{-3}]$
ρ	=	density of the material $[kg \cdot m^{-3}]$
$ ho_0$	=	Density $[kg \cdot m^3]$
$\sigma$	=	Stress [Pa]
$\phi$	=	Concentration $[mol \cdot m^{-3}]$

#### **Definitions:**

ABAQUS:	Finite Element Software.
Absolute Humidity (AH):	Absolute humidity represents the total mass of water in a certain volume of air and water vapour.
Absorption:	Refers to absorbing one volume of mass into another volume of mass.
Adsorption:	Refers to the action of a substance in attracting and holding other mass volumes on its surface.
Angiosperms:	Type of tree (deciduous).
Bark:	The bark is responsible for protection against fungi, insects or other threats, located around the tree.
Bound water:	Bound water is the water that is in the cell wall and chemically bounded.
Bow deformation:	Bending of sawn wood perpendicular to the width of sawn wood.
Cambium:	The cambium is responsible for radial growth.
Cartesian coordinate system:	Coordinate system with X, Y and Z directions perpendicular to eachother.
Chemical potential:	Chemical potentials can be defined as 'factors' potentially driving the diffusive process (driving potentials).
COMSOL:	Finite Element Software.
Conduction:	Energy transfer by free electrons or vibrations of molecules within a solid.
Convection:	Energy transfer by bulk motion of matter.
Crook deformation:	Bending of sawn wood in the lateral direction.
Cup deformation:	Bending of sawn wood perpendicular to the length direction of sawn wood.
Cylindrical coordinate system (CCS):	Coordinate system with radial (R), tangential (T) and longitudinal (L) directions.

Diffusion:	The random movement of particles due to kinetic energy from an area where they are highly concentrated to an area where they are less concentrated. The rate of their motion is a function of temperature, viscosity and mass of the particles.
Driving potentials:	Driving potentials can be defined as 'factors' potentially driving the diffusive process (chemical potentials).
Earlywood:	Wood grown in spring time.
Equilibrium Moisture Content (EMC)	If the surrounding moisture content is kept constant, dry wood will keep on absorbing water until it is in equilibrium with its surrounding; this is called the Equilibrium Moisture Content.
Evaporation:	Molecules near the surface of a liquid which have enough kinetic energy (by heating) to escape.
Fibre Saturation Point (FSP):	The point where all the free water in the cavities has evaporated during desorption is called the Fibre Saturation Point (FSP).
Free water:	Water that fills the wood cavities.
Gesso:	Mixture of hide glue, gypsum or sometimes ground chalk and water.
Growth rings:	Annual rings of a tree.
Gymnosperms:	Type of tree (coniferous).
Heartwood:	Depending on the wood species, after 20 or 30 years, a tree begins the inward conversion of sapwood into heartwood.
Hygro-expansion:	Volumetric shrinkage/swelling.
Hygroscopicity:	Wood is able to absorb and desorb water in the cell wall with respect to the moisture content of the surrounding atmosphere, this is called hygroscopic behaviour.
Latewood:	Wood grown in the autumn/summer.
Moisture Content (MC):	Ratio between the mass of water in the wood sample and the mass of the oven dry wood.
Ossein:	Lime made from bones.
Pigment Volume Concentration (PVC)	):The ratio of inert materials within gesso.
Pith:	Centre of the tree.

Radiation:	Energy transfer by (electromagnetic) -radiation generated by the thermal motion of charged particles in matter.
Relative Density (RD):	Relative dry wood density is a very important indicator, it is related to strength, surface hardness, shrinking and swelling. Wood with higher relative density generally shrinks and swells more than wood with a lower relative density.
Relative Humidity (RH):	Relative Humidity (RH) describes the quantity of water vapour in a mixture of air and water vapour.
Sapwood:	The sapwood is responsible for vertical, upwards saps transport.
Specific Gravity (SG):	Ratio between the density of a substance and the density of a standard (mostly water).
Specific Humidity (SH):	Specific humidity is the ratio between the mass of water vapour in a certain mass of dry air.
Tracheids:	In softwood tracheids are responsible for the vertical sap transport.
Twist deformation:	Twisting of sawn wood around the lengthwise direction.
Wood Density (WD):	Ratio between the oven dry weight and the current volume.

# Contents

#### Quantities and symbols Definitions

0	Intr	roduction	5
(	0.1	Problem statement	6
(	0.2	Objective	6
(	0.3	Research question	6

# Part 1: Theory

1	Str	ucture of hardwood and softwood	9
	1.1	Introduction	9
	1.2	Wood structure	9
	1.3	Structure of hardwood	10
	1.4	Structure of softwood	11
	1.5	Wood cells	12
2	Shr	inking and swelling of wood	. 13
	2.1	Introduction	13
	2.2	Humidity	14
	2.3	Specific Gravity and relative wood density	15
	2.4	Moisture Content	16
	2.5	Hygroscopicity	18
	2.6	Hygro-expansion	19
	2.7	Shrinking and swelling in different directions	23
	2.8	Shrinking and swelling in relation to the grain direction	23
3	Str	ess-strain, creep and creep recovery behaviour	. 25
	3.1	Elasticity	25
	3.2	Stress-strain behaviour	25
	3.3	Creep and creep recovery	28
4	Loc	al coordinate system	. 29
	4.1	Wood structure	29
	4.2	Cylindrical coordinate system	29

	4.3	Defining a cylindrical coordinate system in ABAQUS	. 30
5	Ene	rgy and mass transport	33
	5.1	Introduction	.33
	5.2	Mass transfer	.35
	5.3	Heat conduction	.36
6	Diff	usion coefficients and driving potentials	38
	6.1	Driving potentials	. 38
	6.2	The cup method	.40
	6.3	Driving potentials and their diffusion coefficients	.41
7	Pro	cedures to model moisture movement using ABAQUS	44
	7.1	ABAQUS uncoupled heat transfer analysis	.45
	7.2	ABAQUS mass diffusion analysis	.47

# Part 2: Numerical

8		-	isothermal moisture movement in wood, using ABAQUS transient heat	
	condu	ictio	n	53
	8.1	Intr	oduction	53
	8.2	Seq	uentially coupled multi-physics analysis	
	8.3	ABA	AQUS model	55
	8.4	Res	ults	60
	8.4.	1	Distribution of moisture content after 24 hours and 10 days	60
	8.4.2	2	Stress development in radial and tangential direction	63
	8.4.	3	Strain development in radial and tangential direction	
	8.5	Veri	fication	
	8.6	Con	clusion	
9	Sha	pe st	tability of sawn timber	70
	9.1	Intr	oduction	
	9.2	Тур	es of deformation	71
	9.3	Nun	nerical setup	72
	9.3.	1	Models	72
	9.3.2	2	Material data	73
	9.3.	3	Boundary conditions	74
	9.4	Res	ults	75

ç	9.5	Con	clusion	
10	Inf	luen	ce of material parameters on shape stability	82
1	10.1	Inti	oduction	
1	10.2	Wo	od board -1: Influence of changing E, G, $\alpha$ on twist deformation	
	10.2	2.1	Reduced elastic moduli	
	10.2	2.2	Reduced shear moduli	
	10.2	2.3	Reduced hygro-expansion	
	10.2	2.4	Conclusion	85
1	10.3	Wo	od board -2: Influence of changing E, G, $\alpha$ on cup deformation	
	10.	3.1	Reduced elastic moduli	
	10.	3.2	Reduced shear moduli	
	10.	3.3	Reduced hygro-expansion	
	10.	3.4	Conclusion	
1	10.4	Wo	od board -2: Influence of changing E, G, $\alpha$ on bow deformation	90
	10.4	4.1	Reduced elastic moduli	90
	10.4	4.2	Reduced shear moduli	91
	10.4	4.3	Reduced hygro-expansion	92
	10.4	4.4	Conclusion WB-2, bow deformation:	93
1	10.5	Wo	od board -3: Influence of changing E, G, $\alpha$ on crook deformation	94
	10.	5.1	Conclusion	94
11	Inf	luen	ce of gesso layer on shape stability	
1	1.1	Inti	oduction	95
1	1.2	Sho	rt history of panel paintings [39]	96
1	1.3	Me	chanical behaviour of gesso	97
1	1.4	Din	nensional and mechanical properties	
1	l 1.5	Infl	uence of thickness gesso layer on moisture transport	
1	1.6	Infl	uence of changing elastic modulus of gesso on shape stability	
	11.	6.1	Wood board -1: Twist deformation	
	11.	6.2	Wood board -1: Bow deformation	
	11.	6.3	Wood board -2: Cup deformation	
	11.	6.4	Wood board -2: Bow deformation	
	11.	6.5	Conclusion	
1	l 1.7	Infl	uence of changing the diffusivity of gesso on shape stability	

11	1.7.1	Wood board -1: Twist deformation	108	
11	1.7.2	Wood board -2: Cup deformation 1	109	
11	1.7.3	Wood board -2: Bow deformation 1	110	
11	1.7.4	Conclusion 1	111	
12 Co	onclud	ing remarks1	112	
12.1	Gene	eral1	112	
12.2	2 Cond	clusions	113	
12.3	8 Rele	vance1	115	
BIBLIC	OGRAP	НҮ1	116	
Appen	ndix A:	Derivation of Fick's second law1	118	
Appen	ndix B:	Solution to Newton's cooling equation1	120	
Appen	Appendix C: Example 1			
Appen	ndix D:	Example 21	122	
Appen	ndix E: 1	Relation between Fick's law and the general chemical potential1	125	
Appen	ndix F: 1	Moisture movement1	126	
Appen	ndix G:	Data shape stability of sawn timber and the influence of gesso	127	
Appen	ndix H:	Data moisture distribution due to thickness Gesso layer1	135	
Appen	ndix J: I	Data influence of elastic moduli Gesso on bow deformation1	137	
Appen	ıdix K:	Data influence of elastic moduli Gesso on cup deformation1	138	
Appen	ndix L:	Data influence of diffusivity Gesso on bow deformation1	139	
Appen	ndix M:	Data influence of diffusivity Gesso on cup deformation1	140	
Appen	ndix N:	Data Influence of elastic moduli Gesso on twist deformation	141	
Appen	ndix 0:	Data influence of elastic moduli Gesso on bow deformation1	L <b>43</b>	
Appen	ndix P: 1	Data influence of diffusivity Gesso on twist deformation1	144	

### **0** Introduction

Preservation of worldwide cultural heritage is very important. Different materials demand different conservation methodologies. Often a feeling, founded on years of experience, takes an important role in making the decision which method of conservation is to be applied. History teaches that this approach does not (always) deliver the desired results. Despite the invaluable experience of this empirical approach, it is not (always) sufficient. Thorough knowledge of the more or less changing environmental factors, mainly characterized by temperature, humidity and light, where the "art" is located, the resulting internal stresses and deformations in the wooden panel, as well as the response of the paint layers, could lead to a more permanent solution. This master's dissertation focusses on the crossroad between Science and Art.

A panel painting is a painting that is painted on wood. Not many people are aware that famous paintings, painted by great masters, are painted on wood. The Mona Lisa by Leonardo da Vinci is an example. The Mona Lisa is painted on a wooden panel made from poplar and is almost 500 years old. Wood, and the better known canvas, varies widely in material properties. In order not to expose the artefacts to big changes in temperature and relative humidity, museums, annually invest much money in the climatic control of the spaces where art is exhibited and stored.

Strict requirements, completely based on empirical evidence, should protect the art against degradation. Besides the cultural responsibility, there is also a financial stimulation to review the current way of thinking and to try to provide a scientific basis. Wood is sensitive to fluctuations in relative humidity. Absorption from and desorption of moisture to the immediate environment is unfortunately not without conflict. Absorption and desorption of moisture give rise to swelling and shrinking. The mechanical properties depend strongly upon their orientation. This directional dependency can lead to unwanted shape deformation and strain development. Deformations exceeding the elastic range can lead to permanent deformation.

This master's dissertation examines the possibility of ABAQUS CAE to model moisture transport and shape stability. Commencing with the very basics of the structure of hardwood, softwood, shrinking, swelling, stress, strain, creep and creep recovery. Subsequently a detailed discussion about creating a constitutive model will be presented. Finally, several numerical models are used to examine the effect of changing environmental conditions on moisture transport, structural parameters, changing mechanical parameters and the effect of a gesso layer on shape stability.

#### 0.1 Problem statement

The conservation of panel paintings by museums is mainly based upon practical experience. In an attempt to protect our cultural heritage against degradation, museums apply strict condition requirements, 55% (±5.0%) relative humidity. Besides the cultural responsibility, there is also a financial stimulation to review the current way of thinking and to try to provide a scientific basis. More knowledge about the behaviour of these panel paintings as a result of changing environmental conditions could lead to a more permanent solution. Due to the complex behaviour of wood when exposed to humidity variations, it is almost impossible to predict the deformation without the use of numerical simulations. For this reason more knowledge about numerically modelling of wood is needed.

#### 0.2 Objective

The objective of this research can be divided into four sub-objectives:

- 1) To examine the possibility of ABAQUS CAE standard to model moisture movement and shape stability.
- 2) To examine the influence of changing environmental conditions on shape stability.
- 3) To investigate the influence of changing material parameters on shape stability.
- 4) To investigate the influence of a coating layer and changing coating parameters on shape stability.

## 0.3 Research question

In order to meet the research objectives as mentioned in 0.2, the following research questions have to be answered:

- 1) Is it possible to perform a mass diffusion analysis within a multi-physical environment using the toolbox for a heat transfer analysis with ABAQUS CAE standard?
- 2) Is it possible to model the structural orientation such as the conical angle, growth ring and spiral grain and how do these structural parameters influence the shape stability of sawn wood?
- 3) What is the influence of changing mechanical parameters such as the modulus of elasticity, modulus of shear and hygro-expansional coefficients on shape stability of sawn wood ?
- 4) What is the influence of a gesso layer on the shape stability of sawn wood?

# Part 1: Theory

## **1** Structure of hardwood and softwood

#### 1.1 Introduction

Wood is a heterogeneous, hygroscopic, cellular and anisotropic material. It is a non-uniform material in composition. It has the ability to attract and hold water molecules from the surrounding environment. It is built from cells like all other living organisms and the material properties are directionally dependent.

Trees may be divided into two categories: angiosperms (hardwood/deciduous) and gymnosperms (softwood/coniferous). A more common division is to distinguish between deciduous and coniferous trees. The name deciduous means in Latin 'to fall' which means that these trees loses their leaves. Common species are oak and poplar. Coniferous trees does not lose their leaves or needles. Common species are spruces and pines.

#### 1.2 Wood structure

The physical properties are highly dependent on the structure. Wood is an organic material, predominantly made of cellulose fibres and lignin. The cross section of a tree is divided in the pith, sapwood, heartwood, cambium and bark, see figure 1.1.

**Pith**: the pith is the centre of the tree. **Sapwood**: the sapwood is responsible for vertical, upwards saps transport (outer part) and sapwood is lighter of colour (in most cases) than heartwood. **Heartwood**: general speaking, after 20 or 30 years, a tree begins the inward conversion of sapwood into heartwood. Because the heartwood is naturally preserved with organic substances, all functions cease. The only functionality for heartwood is the provision of strength and stability of the tree. **Cambium**: the cambium is responsible for radial growth. In the cambium layer cells are split and sent inwards to form new sapwood and outwards to form bark. **Bark**: the bark is responsible for protection against fungi, insects or other threats. Vertical downwards sap transport transmits through the inner bark.

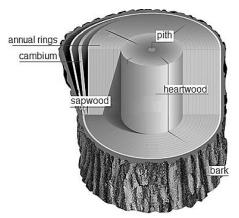


Figure 1.1: Structure of wood (www.visual.merriam-webster.com)

#### 1.3 Structure of hardwood

Hardwood is from an anatomical point of view more complex than softwood. Hardwood is built up from more different cell types like fibres (figure 1.2: F), tracheids (responsible for the vertical sap transport) and parenchyma (storage tissue), are all built with different cell types. There is also more variation in arrangement of these cells. Hardwood uses vessels for vertical sap transport. When the cross section is observed, the ends of these vessels look like pores (figure 1.2: P). Big cells form vessels and small cells forms fibres. Vessels are a long series of longitudinal short cells. These vessels are responsible for vertical sap transport. The fibres look like tracheids, but they are definitely not the same. Fibres are much smaller in diameter and shorter in length. Tracheids are specific for softwood. Fibres are responsible for supporting tissue, see Martenson 1992 [1] and Madison 1980 [10].

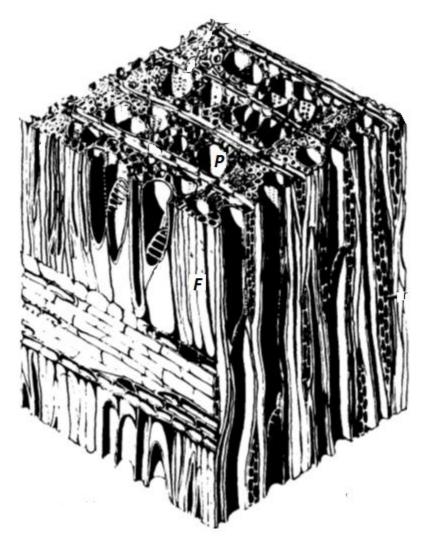


Figure 1.2: Structure of hardwood, yellow poplar (U.S. Department of Agriculture Forest Service)

#### 1.4 Structure of softwood

In softwood tracheids are responsible for the vertical sap transport (figure 1.3: T). Tracheids can be seen as fibres and vessel in one. They are responsible for sap transport and support. About 90-95% cell wall structure is built from tracheids. The rays (figure 1.3: R) in softwood are also smaller than those of hardwood. The rays are made from parenchymal cells. Radial parenchymal cells are distinguished from vertical parenchymal cells. Some softwood trees also have resin ducts (figure 1.3: RD) which transport resin in vertical direction. Within figure 1.3 sapwood and heartwood are distinguished with respect to the pith, cambium and the bark. Commonly, the heartwood is dark collard and the sapwood brighter. This is not consistent for all species. The heartwood is defined as the part of the tree where there are no living cells.

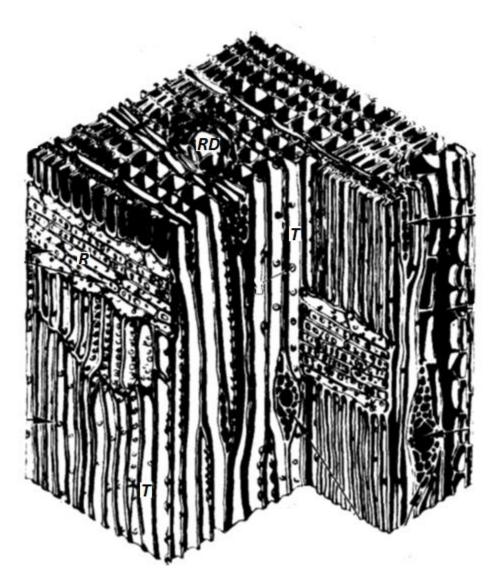


Figure 1.3: Structure of softwood (U.S. Department of Agriculture Forest Service).

#### 1.5 Wood cells

Softwood is composed of two cell types: tracheids (90-95%) and ray cells (5-10%). Tracheids are relatively long (2-4 mm) and have an average width of 0.02-0.04 mm. The ray cells are 0.1-0.16 mm long and 0.002-0.050 mm width. It is known that hardwoods have vessels for conducting sap. Hardwoods contain several different cell types, each with different functions, such as supporting tissue (libriform fibres), conducting tissue (vessel elements) and storage tissue (parenchyma cells). Figure 1.4 is a simplification and mainly applies to the tracheid (softwood). Rays do have the same main structure. The difference can be found in the orientation of the micro fibrils in the secondary wall, whilst the thickness of the individual layers within the cell wall varies, see Madison 1980 [10] and Martenson 1992 [1].

Wood cells are part of a bigger matrix of cells. Wood cells are divided in three different cell walls of which the secondary wall is divided into three layers, see figure 1.4.

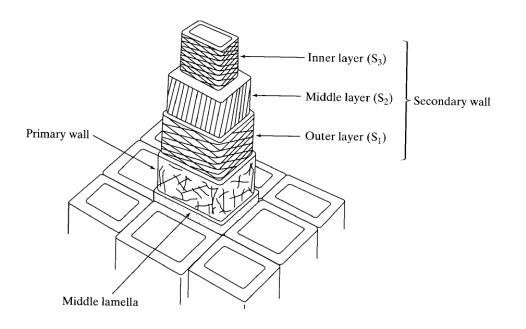


Figure 1.4: Cell wall structure (www.classes.mst.edu)

## 2 Shrinking and swelling of wood

#### 2.1 Introduction

Furniture, old wooden instruments and panel paintings, require great care to keep them in a good condition. If good care is not taken cracks develop which is unwanted, see figure 2.1. Wood is sensitive to changes in moisture content, caused by climate changes. Wood drying out shrinks this reducing the dimensions of the sample. In contrast, wet wood swells, increasing the dimensions. Because of differences in moisture adsorption over the wood dimensions, a difference in deformation occurs, which may lead to cracks. To overcome the effect of shrinking and swelling, varnishes are used, but mostly this only slows down the process.

Humidity is a term for the quantity of water vapour in the air. There is an important relation between the moisture content in the air and the heat of the air. Warm air can hold more moisture than cold air. When the temperature of air increases, its capacity to hold moisture increases. A change in temperature correlates to a change in relative humidity, although the moisture content remains unchanged.

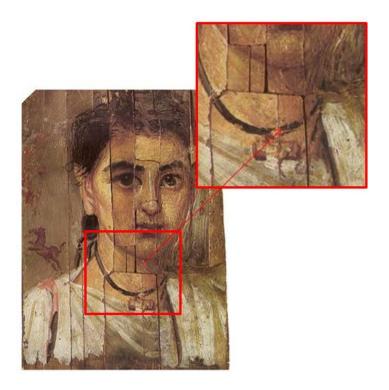


Figure 2.1: The boy from Fayum panel painting, the inset shows local cracking in the painting (Wikipedia).

#### 2.2 Humidity

Humidity is a term for the amount of water vapour (moisture) in the air. The humidity can be expressed in three different ways: absolute humidity, relative humidity and specific humidity.

#### **Absolute Humidity (AH):**

Absolute humidity represents the total mass of water in a certain volume of air and water vapour.

$$AH = \frac{m_w}{V_{tot}} \qquad (2.1)$$

AH = Absolute Humidity  $[kg/m^3]$ 

 $m_w$  = Total mass of water [kg]

 $V_{tot}$  = Total volume  $[m^3]$ 

#### **Relative Humidity (RH):**

Relative Humidity describes the quantity of water vapour in a mixture of air and water vapour. The partial pressure of water vapour in the mixture of air and water is given in percentages of saturated vapour pressure under these conditions. When temperature increases, this leads to a change in relative humidity. When the temperature decreases, the relative humidity remains unchanged and some water vapour will change into water, this is called condensation.

$$RH = \frac{e_w}{e_w^*} 100\%$$
 (2.2)

*RH* = Relative Humidity [%]

 $e_w$  = Actual vapour pressure [*Pa*]

 $e_w^*$  = Saturation vapour pressure [*Pa*]

#### **Specific Humidity (SH):**

Specific humidity is the ratio between the mass of water vapour in a certain mass of dry air.

$$SH = \frac{m_v}{m_{drv-air}}$$
(2.3)

*SH* = Specific Humidity [–]

 $m_v$  = Mass of water vapour [kg]

 $m_{dry-air}$  = Mass of dry air [kg]

#### 2.3 Specific Gravity and relative wood density

Specific gravity, wood density and relative density are very important indicators for wood.

Specific gravity is a dimensionless quantity; it is the ratio between the density of a substance and the density of a standard (mostly water):

$$SG = \frac{\rho_{object}}{\rho_{ref(water)}}$$
(2.4)

SG= Specific gravity [-] $\rho_{object}$ = Density of substance  $[kg/m^3]$  $\rho_{ref(water)}$ = Density of water  $[kg/m^3]$ 

This differs from the more used relative wood density, the ratio between the oven dry weight and the current volume, equation (2.5).

$$\rho_0 = \frac{W_0}{V_0}$$
(2.5)

 $\rho_0 = \text{Relative dry wood density } [kg/m^3]$  = Oven dry mass [kg]

 $V_0$  = Oven dry volume  $[m^3]$ 

Relative dry wood density is a very important indicator (2.5). It is related to strength, surface hardness, shrinking and swelling. Wood with higher relative density generally shrinks and swells more than wood with a lower relative density. This is contrary to the thought that higher relative density means that hardwood is a strong wood and therefore more susceptible to shrinking and swelling than softwood, which is not true. The terms hardwood and softwood can be misleading when referring to literal hardness and softness. The classification hardwood and softwood is a classification based on the anatomical structure and not on the mechanical properties.

#### 2.4 Moisture Content

The reason why wood reacts on water is because of its hygroscopic behaviour, see figure 2.2. Hygroscopic means that it is able to attract and hold water molecules from the surrounding air. If the surrounding moisture content is kept constant, dry wood will keep on absorbing water until it is in equilibrium with its surrounding. Without variation between inward or outward diffusion of vapour equilibrium is reached. This is called the Equilibrium Moisture Content (EMC).

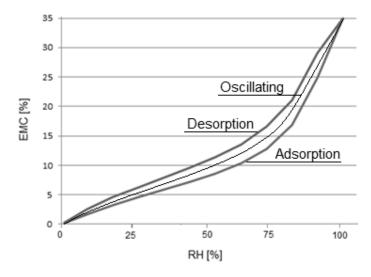


Figure 2.2: Relation between EMC and RH at a temperature of 21°C for white spruce.

The moisture content of wood is expressed according to:

$$u = \frac{m_w}{m_0} 100$$
 (2.6)

$$u$$
= Moisture content [%] $m_w$ = Mass of water in the wood sample [kg] $m_0$ = Mass of the oven dry wood [kg]

The ratio between the adsorption equilibrium moisture content and desorption equilibrium moisture content of wood, is approximately constant, and has a value of about 0.85 (Friedrich, Kollmann, Côté, Kuenzi and Stamm, 1986 [19]). Figure 2.2 presents the relation between equilibrium moisture content and relative humidity when adsorption and desorption takes place. When the direction of sorption is not known, an oscillating curve between the adsorption and desorption curve maybe used, see figure 2.2. Additionally, the fact that the equilibrium moisture content varies considerably between species and even between heart and sapwood from the same species the oscillating curve can be a good approximation.

This oscillating approximation can be calculated as follows:

$$MC = \frac{1800}{W} \left[ \frac{KRH}{1 - KRH} + \frac{K_1 KRH + 2K_1 K_2 K^2 RH^2}{1 + K_1 KRH + K_1 K_2 K^2 RH^2} \right]$$
(2.7)

- $W = 345 + 1.29T + 0.0135T^2$
- $K = 0.805 + 0.000736T 0.00000273T^2$

 $K_1 = 6.27 - 0.00938T - 0.000303T^2$ 

- $K_2 = 1.19 0.0407T 0.000293T^2$
- *T* = temperature [°C]

Wood holds water in two different ways; water can be bound in the cell wall or be free. Bound water is the water that is in the cell wall and chemically bound, see figure 2.3.

Free water is water that fills the wood cavities. As wood dries, firstly the free water in the cavities evaporates. Evaporation of the free water has no effect on strength or dimension of the wood. If the drying continues, the bound water will be released from the cell wall, which leads to the deformation of the cell wall and eventually to the deformation of the wood.

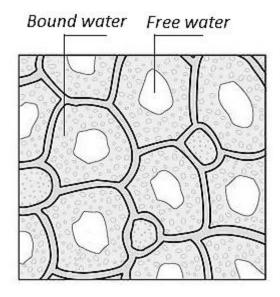


Figure 2.3: Bound and free water (www.workshopcompanion.com).

For low density wood species, generally, at the 27-30% moisture content and above, there is free water present in the cavities. The point where all the free water in the cavities has evaporated during desorption is called the Fibre Saturation Point; generally this is not an exact point but a range.

The moisture content below the fibre saturation point is a function of both the relative humidity and the temperature of the surrounding air, see Friedrich, Kollmann, Côté, Kuenzi and Stamm 1986 [19], Bratasz, Koslowski, Kozlowska and Rachwal 2006 [17] and Astrup, Hansen, Hoffmeyer and Damkilde [15].

#### 2.5 Hygroscopicity

Wood is a hygroscopic material; *perhaps it is more descriptive that the cell walls of wood are hygroscopic*. Wood is able to absorb and desorb bound water in the cell wall with respect to the moisture content of the surrounding atmosphere. Figure 2.2 represents this hysteretic effect for white spruce. The figure represents the relation between the environmental relative humidity and the moisture equilibrium content of wood at T = 21 °C. For clarity, equilibrium moisture content means that there is equilibrium between the air moisture content and the bound moisture in the wood. This definition of equilibrium moisture content explains why the range of equilibrium moisture content increases from 0% until 31 - 35% as this is the generally Fibre Saturation Point of wood (white spruce FSP ~ 30%, mahogany FSP ~ 22-24%, beech or birch FSP ~ 32-34%).

#### 2.6 Hygro-expansion

The volumetric shrinkage depends linearly upon the moisture content; see equations (2.8) and (2.9). Figure 2.4 shows the relation between volumetric shrinkage and the moisture content. The higher the density of the wood specimen, the larger is its volumetric shrinkage or swelling.

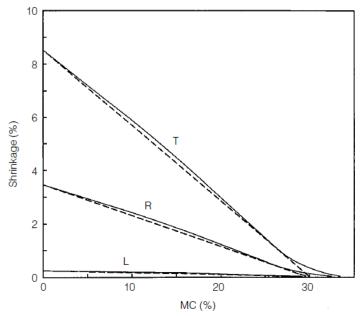


Figure 2.4: Relation between moisture content (MC) and volumetric shrinkage in the longitudinal (L), radial (R) and tangential (T) direction (solid line) and the linearized relation (dotted line) (C. Eckelman).

$$\alpha_v = u_f \rho_0 \tag{2.8}$$

$$\beta_{v} = u_{f} R_{g} \tag{2.9}$$

- $\alpha_v$  = Volumetric swelling [%]
- $\beta_v$  = Volumetric shrinkage [%]
- $u_f$  = Moisture content at FSP [%]
- $\rho_0$  = Oven dry density  $[kg/m^3]$
- $R_g$  = Swollen volume density  $[kg/m^3]$

Referring to figure 2.4, this linearity can be extrapolated towards the horizontal axis, at which the moisture content becomes 28 for white spruce, which is close to the average fibre saturation point. The volumetric coefficients of shrinkage and swelling can be computed from the tangential, radial and longitudinal components as the following equations show:

$$\beta_{v} = 1 - (1 - \beta_{t})(1 - \beta_{r})(1 - \beta_{L})$$
(2.10)

$$\alpha_{v} = (1 + \alpha_{t})(1 + \alpha_{r})(1 + \alpha_{L}) - 1$$
(2.11)

 $\begin{array}{ll} \beta_{t}, \alpha_{t} & = \text{Tangential volumetric shrinkage/swelling coefficient [-]} \\ \beta_{r}, \alpha_{r} & = \text{Radial volumetric shrinkage/swelling coefficient [-]} \\ \beta_{L}, \alpha_{L} & = \text{Longitudinal volumetric shrinkage/swelling coefficient [-]} \end{array}$ 

Neglecting the longitudinal effect, the small products of shrinkage and swelling coefficients, equation (2.10) and (2.11) can be simplified into:

 $\beta_{v} \approx \beta_{t} + \beta_{r}$  (2.12)  $\alpha_{v} \approx \alpha_{t} + \alpha_{r}$  (2.13)

Unequal distributed change of moisture content induces strain in the wood, which can be referred to as moisture induced strain. This strain can be computed as:

$$\vec{\varepsilon}_{u} = \vec{\alpha} \Delta u \qquad (2.14)$$

 $\varepsilon_u$ = Moisture induced strain [-] $\alpha$ = Hygro-expansional coefficients (swelling)[-] $\Delta u$ = Change of moisture content below the fibre saturation point [%]

$$\alpha = \begin{bmatrix} \alpha_L \\ \alpha_T \\ \alpha_R \\ \gamma_0 \\ \gamma_0 \\ \gamma_0 \end{bmatrix}$$
(2.15)

 $\gamma_{\rm 0}$  = Shear strain of the hygro-expansion coefficient [-]

The vectors above refer to the longitudinal (L), tangential (T) and radial (R) directions of the wood cell structure, known as the principal directions.

The maximum hygro-expansion coefficients are calculated according to:

$$\alpha_{\max} = \frac{a_{\max} - a_{\min}}{a_{\min}} \cdot 100\% \quad \text{Swelling} \quad (2.16)$$

$$\beta_{\max} = \frac{\beta_{\max} - \beta_{\min}}{\beta_{\max}} \cdot 100\% \qquad \text{Shrinkage} \qquad (2.17)$$

$a_{\rm max}$	= Dimension of specimen at or above fibre saturation point [mm]
$a_{\min}$	= Dimension of specimen at the oven dry condition [mm]
$eta_{ ext{max}}$	= Dimension of specimen at or below fibre saturation point [mm]
$eta_{ ext{min}}$	= Dimension of specimen at the oven dry condition [mm]

The vector of the hygro-expansional coefficients contains the longitudinal, radial and tangential coefficients. The longitudinal direction will be ignored. The ratio between the tangential and the radial directions is approximately two.

In general the hygro-expansion coefficients can be measured in Cartesian directions (X,Y) with hygro-expansion coefficients ( $\alpha_x, \alpha_y$ ) other than the principal axes (R,T) with hygro-expansion coefficients ( $\alpha_R, \alpha_T$ ), see figure 2.5. The hygro-expansion coefficients must be transformed with the help of Mohr's circle, see figure 2.6.

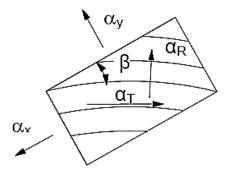


Figure 2.5: Cutting plane and principal directions.

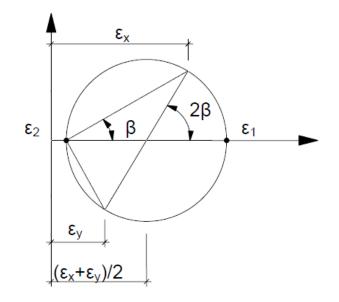


Figure 2.6: Mohr's circle for strain transformation (shrinkage).

Figure 2.6 illustrates how to compute to principal strains using Mohr's circle. Accordingly equation (2.18) represents the radius (R) of the circle and equations (2.19) reflect the principal strains,  $\varepsilon_1$  and  $\varepsilon_2$ .

$$R = \frac{\varepsilon_x - \varepsilon_y}{2\cos(2\beta)}$$
(2.18)

$$\varepsilon_1, \varepsilon_2 = \frac{\varepsilon_x + \varepsilon_y}{2} + \frac{\varepsilon_x - \varepsilon_y}{2\cos(2\beta)}$$
(2.19)

Substitution of the strains by the hygro-expansion coefficients results in:

$$\alpha_{R} = \frac{\alpha_{x} + \alpha_{y}}{2} - \frac{\alpha_{x} - \alpha_{y}}{2\cos(2\beta)}$$
(2.20)

$$\alpha_T = \frac{\alpha_x + \alpha_y}{2} + \frac{\alpha_x - \alpha_y}{2\cos(2\beta)}$$
(2.21)

 $\alpha_x$ ,  $\alpha_y$  = Hygro-expansion coefficients in x- and y- direction [-]  $\alpha_R$ ,  $\alpha_T$  = Hygro-expansion coefficients in the R- and T- direction of the wood cell structure [-]

#### 2.7 Shrinking and swelling in different directions

Water is found bound and free in wood. Shrinking of wood happens when the free water has already been evaporated and the chemically bound water in the cell wall reduces (below fibre saturation point). Evaporation of the chemically bound water in the cell wall causes the lignin-hemicellulose matrix to shrink and the micro fibrils to become packed more closely. Because the outer part dries quicker than the inner part, a difference in shrinkage, resulting in tension perpendicular to the grain between the outer and inner parts occurs which causes cracking, see figure 2.7. The quantity of shrinking is proportional to the loss of moisture below the saturation point. If 1 % moisture below the fibre saturation point is lost, the wood shrinks one-thirtieth of the total possible shrinkage, see Eckelman 2000 [14], Friedrich, Kollmann, Cote, Kuenzi and Stamm 1986 [19], as indicated by figure 2.4.

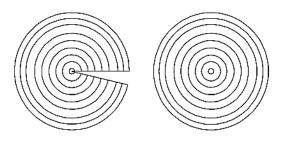


Figure 2.7: Cracking parallel to the grain (C. Eckelman [14]).

#### 2.8 Shrinking and swelling in relation to the grain direction

It is known that there is a difference between tangential and radial shrinkage, see figure 2.4, and that cracks can develop when wood dries, see figure 2.7. There is more than one reason for this behaviour. The most important reasons and influence factors can be explained as follows: Different wood species have different properties, and show different shrinking and swelling behaviour. One thing is always the same for all species: wood shrinks the most in the tangential direction, about two times more than in the radial direction, see figure 2.4. Swelling in the longitudinal direction is small and is usually ignored (general 0.1%-0.2%).

The difference between shrinkage in the tangential en radial directions causes characteristic splitting of the log section as shown in figure 2.7. The split which is the result of these differences in shrinking occurs usually along a ray. Rays are supposed to have a constraining effect in the radial direction. Because of the structure of wood, rays differ between wood species. Consequentially the influence of the rays differs among wood species.

Figure 2.8 [14] shows the effect on shrinking for different grain oriented wood pieces, according to Bratasz,Koslowski, Kozlowska and Rachwal 2000 [17].

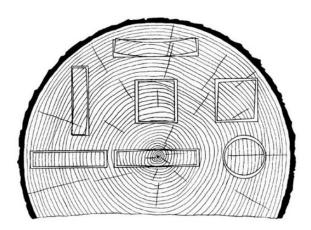


Figure 2.8: The effect on shrinking and swelling Depending on the grain orientation (C. Eckelman [14]).

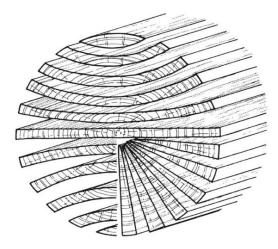


Figure 2.9: Flat sawn planks and radial sawn planks (C. Eckelman [14]).

The mechanical constraint caused by a frame around a panel painting can induce stresses in the panel with all possible consequences. Generally, wood can sustain 0.5% to 1.0% deformation in the elastic region. Values above this limit induce plastic deformation. When a panel deforms because of changing moisture content due to environmental fluctuations, these stresses can cause cupping of the planks in the panel, or warping (cupping) of the whole panel, including the frame. Another cause for cupping can be non-uniform moisture diffusion due to applied coatings. The last important source for cupping of panel paintings is the direction of the grain or growthring. Quarter sawn planks (this is radially sawn) stay flat when the moisture content changes, see figure 2.9. Flat sawn planks will cup with a changing moisture content.

More information about warping, cupping, crook, bow and twist deformation, see chapter 10.

#### 3 Stress-strain, creep and creep recovery behaviour

#### 3.1 Elasticity

Elasticity is the property of a material to recover its initial state after removing the load. All materials have a certain limit of stress for which lower stresses belong to elastic behaviour and above this limit to plastic behaviour. Plasticity is the property of a material that does not recover its initial state after unloading. When a material is loaded above this plastic limit, no more stress can be taken by the material. Rather different than steel, the elastic limit of wood is an arbitrary concept. When small elastic deformations are imposed for a period of time, the elastic deformations can turn into plastic deformations. When the moisture content (MC) in the wood is higher than the fibre saturation point (FSP), the moisture content is assumed to have no influence on the moduli of elasticity, shear moduli and Poisson's ratio. If the moisture content is under the fibre saturation point it is assumed that the moduli of elasticity, shear and Poisson's ratio are effected by the moisture, as well by temperature. Furthermore, the moduli of elasticity, shear and Poisson's ratio differ between different species of wood; see Kollmann and Cote [2].

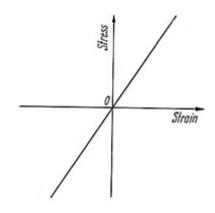


Figure 3.1: Ideal linear elastic behaviour (Kollmann F., Cote W 1968).

#### 3.2 Stress-strain behaviour

For such a complicated material as wood, one should not expect ideal elastic behaviour, as described by Hooke's law, see figure 3.1. The stress-strain diagram is therefore not the same as for an ideal elastic body. Ideally behaving materials seem hard to be found in nature, but a material like rubber approaches this behaviour quite well. It is important to note that the stress-strain curve for an ideal elastic body does not need to be straight line, but the strain must be completely reversible. For example; vulcanized Hevea rubber is stretched at 20°C to a 700% elongation, the stress-strain curve will look like figure 3.2. When volcanic Hevea rubber is stretched within the elastic region and subjected to a cycle of loading and unloading, this can be carried out without energy loss due to the fact that the permanent deformation is ignorable. At any stage of deformation within the elastic region, after unloading the deformation will revert back to the initial state, see Kollmann and Cote [2].

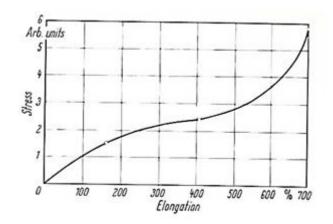


Figure 3.2: Stress-strain curve of vulcanized Hevea rubber (Kollmann F., Cote W 1968).

If the same strain cycle is applied to an elastic-plastic material like wood, the outcome will not be ideal as with volcanic Hevea rubber, see figure 3.3. Loading wood from O - A' followed by unloading will lead to permanent deformation of O - B'. In order to recover this permanent deformation a stress of O - C' in the compression direction must be applied. Compression with a magnitude of O - C' will lead to the stress-strain curve B' - C'. Compression to the absolute maximum will lead to a stress-strain curve C' - D' and removal of the compressive load will lead to curve D' - E', resulting in the negative permanent deformation E' - O. By increasing the load stress-strain curve E' - F' will occur, making the loop compleet, see Kollmann and Cote [2].

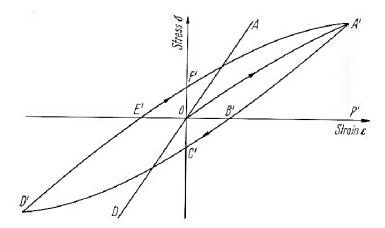


Figure 3.3: Stress-strain curve for wood (Kollmann F., Cote W 1968).

Applying cyclical stress only in one direction, depending on the stress level, the permanent deformation will be increased with each cycle, see figure 3.4. Alternatively, the stress straincurves can approach an ideal elastic behaviour with increasing load cycles, see figure 3.5.

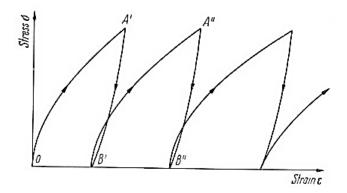


Figure 3.4: Stress-strain cycles for repeated loading and unloading with increasing plasticity (Kollmann F., Cote W 1968).

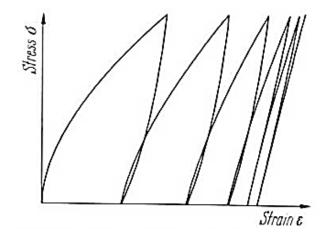


Figure 3.5: Stress-strain cycles for repeated loading and unloading with increasing approach to the ideal elastic behaviour (Kollmann F., Cote W 1968).

#### 3.3 Creep and creep recovery

Increasing deformation when stressed at an equal level is called creep. It occurs as a result of long term exposure to stresses that are below the yield strength of the material.

If a stress is applied at t = 0 there is an instantaneous elastic deformation 0 - A, see figure 3.6. This instantaneous deformation is followed by a retarded deformation called creep A - B. Along the curve A - B the stress is held at a constant level. When at  $t = t_1$  the initial stress is removed, an instantaneous elastic recovery appears, B - C1. This instantaneous elastic recovery is followed by creep recovery, C1 - C2. The recovery after D is very small and can be neglected so the permanent deformation is D - E.

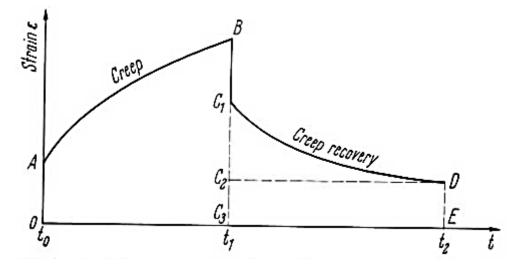


Figure 3.6: Creep and creep recovery (Kollmann F., Cote W 1968).

The creep A – B consists of two components. The first one is an elastic creep C1 – C2. This is the primary creep. The non-recoverable component C2 – C3 is called the secondary creep which is permanent deformation, see Kollmann and Cote, (1968) [2].

#### 4 Local coordinate system

#### 4.1 Wood structure

The macrostructure of wood is formed by concentric annual rings, called growth rings, see figure 1.1. Beside the growth ring orientation also the conical shape of the tree and the spiral grain orientation play an important role. A good constitutive model contains all these components.

#### 4.2 Cylindrical coordinate system

Local coordinate systems are often aligned with the material axes in a structure. Because of the concentric growth a cylindrical coordinate system is generally used to model wood, see figure 4.1. The pattern used in the sawmilling process determines the position of the pith. The mechanical response of sawn timber depends on the position of the pith (material central axis). During the drying process of sawn timber, the orientation of the pith influences the deformation, see chapter 9. When modelling the drying process of wood, these material orientations and the position of the pith have to be considered in the model.

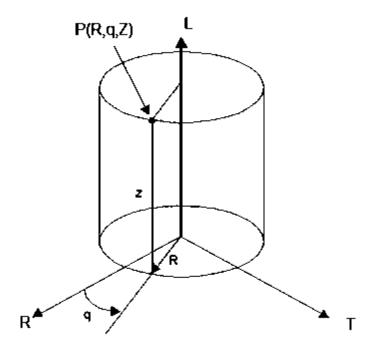


Figure 4.1: Cylindrical coordinate system, radial (R), tangential (T) and longitudinal (L) (manual Solid Work).

When a user defines a local coordinate system in ABAQUS, the axes are indicated by X, Y, Z (standard rectangular Cartesian coordinate system), X', Y', Z' (transformed rectangular Cartesian coordinate system) and R, T, Z (cylindrical coordinate system).

Generally a local cylindrical coordinate system is assumed to be capable of simulating the orthotropic behaviour due to the growth ring orientation. This is doubtful because of the following reasons. By inserting a coordinate system by default, being Cartesian or cylindrical, it is always assumed that the directional properties are perpendicular to each other. Because of the spiral grain orientation, this would be impossible with respect to the radial and tangential direction. By applying a default coordinate system it is assumed that the mechanical behaviour in each direction can be regarded to be independent of the distance from the pith or the longitudinal direction. It has been experientially observed that the longitudinal moduli of elasticity, the longitudinal moisture expansion coefficient and elastic strain parameter vary from pith to bark.

#### 4.3 Defining a cylindrical coordinate system in ABAQUS

Within ABAQUS CAE, the global coordinate system is the default material coordinate system. The user can choose between several local systems. The coordinate system can be rectangular, cylindrical or spherical.

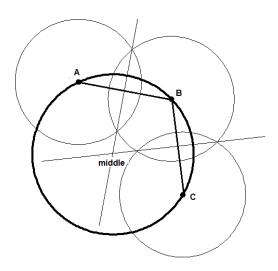


Figure 4.2: Graphical determination of pith.

In case of modelling sawn timber, it is possible to assign the origin of the local coordinate system in a logical fashion; this origin is called the pith, see figure 4.2. For example, in case of a plank coming from a panel painting, see figure 4.3-A, first the pith needs to be identified with the help of a plane geometry, see figure 4.2 and 4.3-B. When the pith of the tree has been identified, choose a reference point P(x,y) on the growth ring to calculate the angle ( $\varphi$ ) between the pith and the reference point, see figure 4.3-B. Transpose ( $\varphi$ ) to the plank edge, see figure 4.3-C. Now the origin of the local coordinate system from the plank is known o(x,y), see figure 4.3-D.

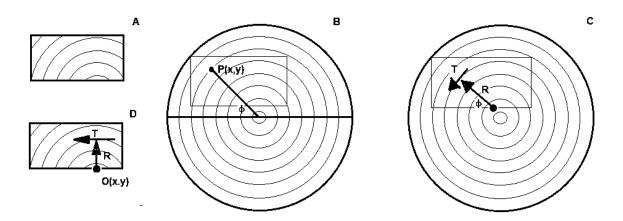


Figure 4.3: Graphical determination of coordinate system origin.

Figure 4.5 and figure 4.6 are examples of cylindrical coordinate systems used for the material orientation in a wood system and a plank system.

This spiral orientation is related to the entire system and not to individual axes. The ease to model a spiral grain orientation depends strongly upon the dimensional properties of the model (wood board). Applying a spiral grain orientation to a three-dimensional wooden cylinder taken from the heart is much more complicated than modelling sawn timber. Because within sawn timber the spiral grain orientation is cut through, it is no real spiral anymore and easy to model, see figure 4.4.

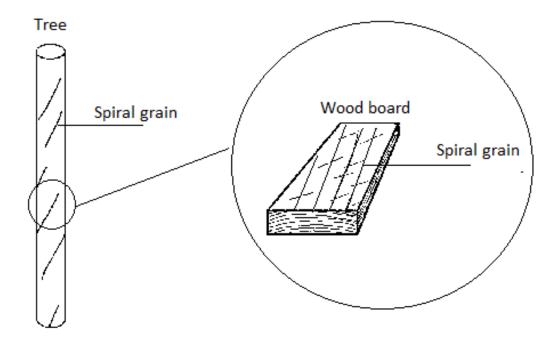


Figure 4.4: Spiral grain from tree to wood board

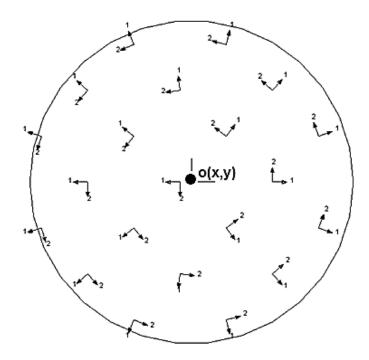


Figure 4.6: ABAQUS cylindrical coordinate system, wood model.

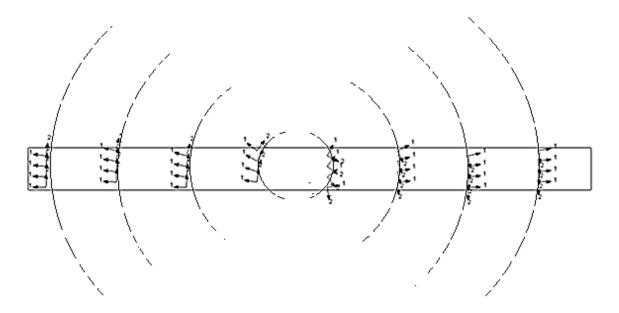


Figure 4.6: ABAQUS cylindrical coordinate system, plank model.

#### 5 Energy and mass transport

#### 5.1 Introduction

From a physical viewpoint, there are several transport phenomena that occur in nature, namely conduction, convection, radiation and diffusion. These transport phenomena concern the exchange of mass (water molecules), energy (heat) and momentum (force) within systems. These transport quantities vary greatly.

Heat transfer and mass transfer are, from an engineering viewpoint, among the most common transport phenomena. Heat transfer concerns conversion and exchange of thermal energy and heat between physical systems. Thermal energy can be defined as part of the total internal energy within a thermodynamic system that results in the system temperature. Heat can be defined as the energy transferred from one thermodynamic system to another by interaction. Heat transfer can be divided into various mechanisms such as conduction, convection and radiation [20] [24], see the list of definitions.

Mass transfer can be defined as the net movement of mass from one location to another. Mass transfer can be divided into various mechanisms such as absorption, adsorption and evaporation (drying). Absorption and adsorption are different phenomena, but both involve transfer of mass.

From an engineering viewpoint, the physical process of mass transfer is known as convective transport. Diffusion is energy transport without bulk motion and differs from convection, which uses bulk motion to move particles from one place to another. Diffusion is the tendency of particles to spread out due to kinetic energy and distribute evenly throughout a volume [21] [22].

The energy transport phenomenon is grounded in two primary concepts: conservation laws and constitutive equations. Conservation laws are formulated as continuity equations, describing the transport of a conserved quantity, such as mass, energy and momentum. Constitutive equations describe the response of that material to external influences. These external influences can be forces or field variables. A good example is Fourier's law of heat conduction, describing the response of heat flux to the temperature gradient:

$$\vec{q} = -k\vec{\nabla}T \tag{5.1}$$

q = Heat flux  $[W \cdot m^{-1}]$ 

k = Conductivity of the material  $[W \cdot m^{-1}K^{-1}]$ 

 $\nabla T$  = Temperature gradient [K]

Almost all physical transport phenomena involve a system which seeks for the lowest energy state (the principle of minimum potential energy). These systems always seek a true thermodynamic equilibrium. When thermal equilibrium has been reached and there is no gradient, the transport stops and has reached equilibrium. All transport systems seek their own equilibrium. A heat transfer system seeks thermal equilibrium.

Two transport phenomena will be discussed: heat conduction (energy transfer) and molecular diffusion (mass transfer). There is a strong similarity between these two transport phenomena. Both transport phenomena are driven by diffusion. In case of heat conduction this is called heat diffusion and in case of mass transfer this is called mass diffusion. This similarity becomes clear when one compares Fourier's law of heat conduction (5.2) and Fick's law of molecular diffusion (5.3) [21] [22], which in a one-dimensional form read:

$$q_{x} = -k \frac{dT}{dx} \qquad Fourier's law of heat conduction \qquad (5.2)$$
$$J_{x} = -D \frac{\partial \phi}{\partial x} \qquad Fick's law of molecular diffusion \qquad (5.3)$$

- $q_x$  = Heat flux  $[W \cdot m^{-1}]$
- k = Thermal conductivity  $[W \cdot m^{-1}K^{-1}]$
- T = Temperature [K]
- $J_x$  = Diffusion flux [ $mol \cdot m^{-1}s^{-1}$ ]
- D = Diffusion coefficient  $[m \cdot s^{-1}]$
- $\phi$  = Concentration [mol · m<sup>-3</sup>]

#### 5.2 Mass transfer

Between two systems, whose concentration differ, there is a natural tendency for mass transfer. Due to mass transfer, both systems seek equilibrium, minimizing the difference in concentration. A method for modelling mass transfer is given by Fick's law, equation 5.3.

Adolf Fick (1829 – 1901) was a German Physicist and physiologist. He introduced his law of diffusion in 1855. Fick's first law of diffusion (5.3) relates the diffusive flux to the concentration in steady state conditions. Systems in steady state conditions contain properties that are not time dependent. For any property P, the partial derivative with respect to time equals zero, equation (5.4) [21] [22].

$$\frac{dP}{dt} = 0 \qquad Steady \, state \qquad (5.4)$$

Fick's first law (5.3) describes the flow or flux from regions of high concentration to regions of low concentration. The magnitude of this flux is proportional to the spatial gradient of the concentration.

$$\frac{\partial \phi}{\partial x}$$
 = Driving force behind the process

Equation (5.3) describes molecular diffusion in one dimension. In two or more dimensions, Fick's first law of diffusion can be written with help of a gradient operator  $\nabla_{\pm}$ 

$$\vec{J} = -D\vec{\nabla}\phi \qquad (5.5)$$

$$\vec{\nabla}\phi = \left(\frac{\partial\phi}{\partial x}, \frac{\partial\phi}{\partial y}, \frac{\partial\phi}{\partial z}\right) \quad Three \ dimensional \ gradient \ operator \tag{5.6}$$

Fick's first Law of diffusion is only valid when no change in diffusion concentration takes place. Because the diffusion concentration commonly changes over time, physical properties change over time. For this reason, a "non-steady-state" or "transient" diffusion law is needed. This law is provided by Fick's second Law (5.7), see appendix A: Derivation of Fick's second law.

$$\frac{\partial \phi}{\partial t} = D\left(\frac{\partial^2 \phi}{\partial x^2}\right) \tag{5.7}$$

In the case of two or more dimensions:

$$\frac{\partial \phi}{\partial t} = D \vec{\nabla}^2 \phi \qquad (5.8)$$

$$\vec{\nabla}^2 = \left(\frac{\partial^2 \phi}{\partial x^2} + \frac{\partial^2 \phi}{\partial y^2} + \frac{\partial^2 \phi}{\partial z^2}\right) \qquad Laplace operator$$

35

#### 5.3 Heat conduction

The concept of heat transfer starts with the famous English scientist Sir Isaac Newton (1643 -1723). Isaac Newton wrote in his 1701 paper entitled "Scala Graduum Caloris" his specific ideas about heat convection and presented what is nowadays known as Newton's law of cooling: equation (5.9). In his paper, Newton uses the "caloric" theory, developed by the French chemist Antoine Lavoisier (1743 – 1794) to explain the transfer of heat. Lavoisier proposed that caloric was a tasteless, odourless, massless, and colourless substance which flows from one body into another and the loss of caloric substance would equal the increased or lost temperature. This is the reason why Newton's law of cooling uses bulk motion to calculate loss and increasing temperature. It seems logical that the caloric theory was never fully accepted and later proven to be wrong, because the theory essentially states that heat could not be created or destroyed. If one rubs his hands together it becomes clear to him this is not the case and heat can be generated. Benjamin Thompson (1753 – 1814) developed the idea that heat was generated by friction which is a form of motion. Benjamin Thompson's ideas were not immediately accepted but did help to establish the law of conservation of energy in the 19th century. The English physicist, James P. Joule (1818 – 1889), demonstrated with his experiments the relationship between mechanical work and the nature of heat and this led to the development of the first law of thermodynamics (conservation of energy). In the  $19^{th}$  century, the development of the kinetic theory stated that heat or energy is generated by the random motion of atoms and molecules. This kinetic theory helped to develop the concept of conduction of heat [25].

The French mathematician and physicist, Joseph Fourier (1768 – 1830), used Newton's law of cooling to develop his law of heat convection. Newton's law of cooling suggested a relationship between the temperature difference and the amount of heat transferred. Fourier took Newton's equations and rewrote it as a convection equation. Fourier also developed the concept of heat flux and temperature gradient. Fourier used the same process to develop his law of heat conduction (5.12), also known as Fourier's law [25].

$$\frac{dQ}{dt} = \alpha A (T - T_A) \qquad \text{Newton's law of cooling}$$
(5.9)

- Q = Thermal energy [J]
- A = Surface area of body  $[m^2]$
- *T* = Temperature of object body [*K*]
- $T_A$  = Surrounding temperature [K]
- $\alpha$  = Heat transfer coefficient  $[W/m^2K]$

Since  $Q = c_p T$ , where  $c_p$  is the heat capacity, equation (5.9) becomes:

$$\frac{dT}{dt} = \frac{\alpha A}{c_p} \left( T - T_A \right) = k \left( T - T_A \right)$$
(5.10)

The solution to this differential equation is:

$$T = T_A + (T_0 - T_A)\exp(-\alpha t)$$
(5.11)

See appendix B: Solution to Newton's cooling equation.

Newton's law of cooling is a solution to the differential equation given by Fourier's law.

$$q_x = -k \frac{dT}{dx}$$
 Fourier's law (5.12) = (5.1)

Note the similarity between Fick's law of molecular diffusion and Fourier's law of heat conduction. In case of non-steady state heat conduction, Fourier's equation becomes equation (5.13), similar to equation (5.7).

$$\frac{dT}{dt} = a \frac{\partial^2 T}{\partial x^2}$$
(5.13)

With;

$$a = \frac{\lambda}{\rho c_p} \tag{5.14}$$

a = Thermal diffusivity 
$$[m^2 \cdot s^{-1}]$$

$$\lambda$$
 = Thermal conductivity (k) [ $W \cdot m^{-1}K^{-1}$ ]

$$\rho$$
 = Density [ $kg \cdot m^3$ ]

 $c_p$  = Specific heat capacity  $[J \cdot kg^{-1}K^{-1}]$ 

#### Example 1: Transient one dimensional heat conduction (appendix C)

Example 2: A temperature step at the surface of a semi-infinite thick slab (appendix D)

#### 6 Diffusion coefficients and driving potentials

#### 6.1 Driving potentials

Driving potentials can be defined as 'factors' potentially driving the diffusive process. Temperature, moisture content and pressure are examples of driving potentials. Because these potentials act as a driving force behind the process, they take an important place within equations describing the diffusion process. Fick's law and Fourier's law are examples of equations using driving potentials. The potentials appear in these equations as gradients. So, the gradient of the driving potential is eventually responsible for the diffusive flux. The gradient (grad.) defines the steepness of the slope of the variation of any quantity in space. From a mathematical viewpoint, the gradient can be defined as the rate of increase of a scalar field, which is a vector field.

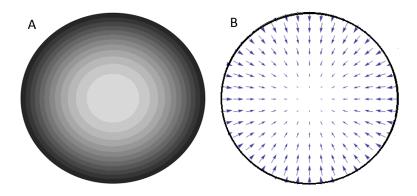


Figure 6.1: Scalar and vector field.

The gradient of f is written as:

grad  $f = \vec{\nabla} f$   $\vec{\nabla} = gradient operator$ 

Figure 6.1-A represents a scalar field and figure 6.1-B the two dimensional vector field of this scalar field and the size of the gradient is expressed by the size of the arrows.

Formally, the gradient can be defined as the multi-dimensional derivative of f .

For example: if 
$$f: \mathbb{R}^3 \to \mathbb{R}$$
 grad  $f = \overrightarrow{\nabla} f = \left(\frac{\partial f}{\partial x}, \frac{\partial f}{\partial y}, \frac{\partial f}{\partial z}\right)$ 

Look at Fourier's equation (6.1), and see the driving potential *T*:

$$q_x = -k\frac{\partial T}{\partial x} \tag{6.1} = (5.2)$$

Within wood science, moisture concentration ( $\phi$ ), moisture content (u), water vapour pressure (P) and water vapour content (w) are often used as driving potential.

Table 6.1: Driving potentials and diffusion coefficients

Driving Potential	Diffusion Coefficient
Moisture concentration (C)	
$\phi = \frac{m_{wheight-moisture-volume}}{V_{volume}}$ [kgm <sup>-3</sup> ]	$D_{\phi}[m^2s^{-1}]$
Moisture content (u)	
$u = \frac{m_w}{m_0} 100$	$D_u[kgm^{-1}s^{-1}]$
[%]	
Water vapour pressure (P) $P_{w} = \frac{RHP_{ws}}{100\%}$ [Pa]	$D_P[kgm^{-1}s^{-1}Pa^{-1}]$
Water vapour content (w)	
$w = \frac{\rho_{mass-vapour}}{\rho_{dry-air}}$ $m_{dry-air} = 1.2[kg/m^{3}]$ [-]	$D_w[m^2s^{-1}]$

B. Time [27] concludes that the chemical potential is the essential driving force for moisture transport through wood. Time states that the chemical potential results from the gradient of water vapour pressure. In other words, the chemical potential is a pushing force or driving force behind moisture transport, based upon vapour pressure gradient.

The term chemical potential seems to come from plant physiology as well as water activity and osmotic pressure. From plant physiology, the chemical potential of water can be defined as the free energy per mole of water [28]. In other words, chemical potential is the potential of a substance to do work or move something. Because work is the movement of an object due to an applied force, chemical potential is the ability to move, or diffuse a solute through a solvent. Chemical potential in the case of water is also called water potential (in plant physiology, water potential and chemical potentials are not the same). Defining the chemical potential as the ability to do work is consistent with the definition from ABAQUS.

#### 6.2 The cup method

Different methods exist to examine and evaluate the diffusion coefficient (D) of wood. The most frequently used method is the so called "Cup method". With this method, a wood specimen is fastened on top of a cup serving as a lid, see figure 6.2. Due to the difference in relative humidity between the cup and the surrounding environment, a water vapour flow through the wooden specimen occurs. By weighing the cup at regular intervals and plotting this as a function of time, the diffusion coefficient can be found by calculating the slope of the sorption curve. If the moisture process is behaving according to Fick's law, the diffusion coefficient can be calculated from the slope of the curve.

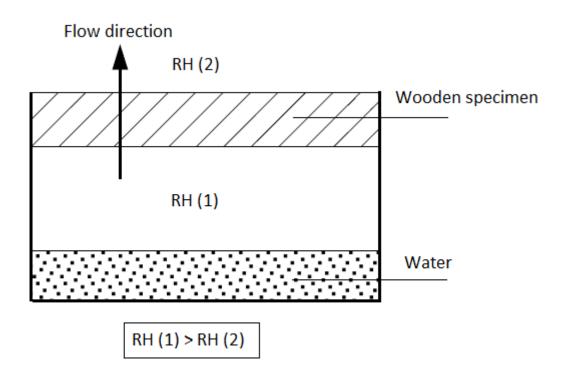


Figure 6.2: The cup method

#### 6.3 Driving potentials and their diffusion coefficients

To calculate moisture diffusion in wood commonly, moisture concentration ( $\phi$ ) or moisture content (u) are used as driving potentials. Moisture concentration can be calculated as follows:

$$\phi = \frac{m_w}{V} \tag{6.2}$$

 $\phi = \text{Moisture concentration } [kg \cdot m^{-3}]$   $m_w = \text{Mass } [kg]$  $V = \text{Volume } [m^3]$ 

Moisture content can be calculated as follows:

$$u = \frac{m_w}{m_0} 100\% \tag{6.3} = (2.7)$$

*u* = Moisture content [%]

 $m_w$  = Mass of the water in the wood sample [kg]

 $m_0$  = Mass of the oven dry wood [kg]

Moisture concentration and moisture content are essentially the same. The relation between moisture content and moisture concentration can be shown as follows:

$m_w = \frac{um_0}{100}$	(6.4)
$m_w = \phi V$ $\frac{um_0}{100} = \phi V$	(6.5) (6.6)
$\phi = \frac{um_0}{100 \cdot V}$	(6.7)
$\phi = u \frac{m_0}{V}$	(6.8)
$\frac{m_0}{V} = \rho_0$	(6.9)

 $\rho_0$  = Wood dry density [ $kg \cdot m^{-3}$ ]

The relation between the moisture concentration by volume and the moisture content by weight of wood:

$$\phi = u\rho_0 \tag{6.10}$$

Wood is most often only a part of a bigger structure, consisting of many other layers and different materials as in panel paintings, see figure 6.3. Different materials show different material properties. Because of this different behaviour, it is wise to use a driving potential which is consistent for different materials. Water vapour pressure [P] and water vapour content [w] are such driving potentials.

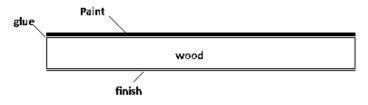


Figure 6.3: Different layers of panel painting.

The diffusion coefficient with water vapour pressure ( $D_P$ ) can easily be transferred into a diffusion coefficient with water vapour content ( $D_V$ ) as shown by Time [27]:

$$D_V = 461.4TD_P$$
 (6.11)

#### *T* = temperature in [K]

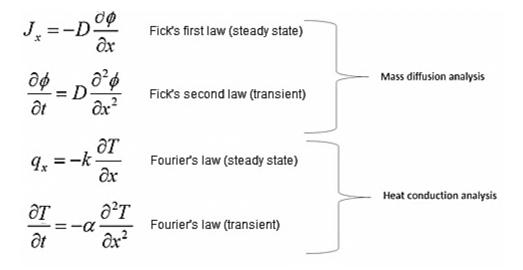
Because water vapour content (*w*) and moisture concentration ( $\phi$ ) share the same diffusion coefficient in units, see table 6.1, the above transformation can also be used to transform the pressure potential diffusion coefficient into the moisture concentration diffusion coefficient. Note that moisture concentration content [*w*] is essentially the same as equilibrium moisture content.

Diffusion coefficient	First law	Second law
Diffusion coefficient with water vapour pressure	$q_{X} = -D_{p} \frac{\partial P}{\partial x}$	$\frac{\partial C}{\partial t} = D_P \cdot \frac{\partial^2 P}{\partial x^2}$
Diffusion coefficient with moisture concentration	$q_{X} = -D_{\phi} \frac{\partial \phi}{\partial x}$	$\frac{\partial \phi}{\partial t} = D_{\phi} \cdot \frac{\partial^2 \phi}{\partial x^2}$
Diffusion coefficient with moisture content	$q_{X} = -D_{u} \frac{\partial u}{\partial x}$	$\frac{\partial C}{\partial t} = D_u \cdot \frac{\partial^2 u}{\partial x^2}$

Table 6.2: Fick's first and second law with different diffusion coefficients.

#### 7 Procedures to model moisture movement using ABAQUS

ABAQUS uses Fourier's law of heat conduction to calculate heat transfer within a heat transfer analysis. ABAQUS uses an extension of Fick's law to perform a mass diffusion analysis. Due to the analogy between Fourier's equation and Fick's equation one can model mass diffusion using a heat transfer analysis and vice versa.



Although one can calculate mass diffusion using a transient heat transfer analysis, heat transfer analysis and mass diffusion analysis are not the same. For example, heat transfer analysis based on Fourier's law can only use a temperature gradient as the driving force behind the diffusive process. Within mass diffusion analysis other driving forces (ABAQUS calls this a chemical potentials) can control the diffusive process. Pressure, temperature and concentration are examples of field variables which can be used as driving potential.

ABAQUS has developed a strong capability over a long time to solve multi-physics problems. The advantage of ABAQUS multi-physics is the ease with which multi-physics problems can be solved. It has the ability to utilise the same model, element library, material data and load history. A single-physic analysis can easily be extended to a multi-physics analysis, without the need for additional tools, interfaces or simulation methodology.

For the specific case of modelling moisture movement through wood, the multi-physical thermal – mechanical coupling is of importance. By coupling the thermal field variables from a heat conduction analysis as a predefined field to a static stress analysis, one can easily calculate thermal expansion and thermal stress field [26].

#### 7.1 ABAQUS uncoupled heat transfer analysis

The uncoupled heat transfer analysis is capable to model solid body heat conduction with temperature-dependent conductivity, internal energy, general convection and radiation boundary conditions. The focus of this paragraph will be heat transfer in materials due to convection/diffusion.

#### The basic energy balance used by ABAQUS:

"Energy balance (conservation of energy) states that the change in internal energy of a closed system is equal to the amount of heat supplied to the system, minus the quantity of work performed by the system on its surroundings, equation (7.1)".

$$\int_{V} U dV = \int_{S} q dS + \int_{V} r dV$$
(7.1)

- V = Volume of a solid material  $[m^3]$
- *S* = Surface area of material volume  $[m^2]$
- = Material time rate of internal energy (the change of internal energy in time)  $[J \cdot s^{-1}]$
- q = Heat flux per unit area of the material body, flowing into the body  $[W \cdot m^{-2}]$
- *r* = Heat supplied into/out of the body per unit volume; this is the work performed by the system on the surroundings  $[W \cdot m^{-3}]$

The basic energy balance states that the change of internal heat energy equals the heat flux per unit area flowing into the body and the heat per unit volume flowing into the body. The heat flux per unit area flowing into the body is governed by Fourier's law of thermal conduction

The boundary conditions:

Т	=T(x,t), prescribed temperature [K]
q	= $q(x,t)$ , prescribed surface heat flux per area $[W \cdot m^{-2}]$
r	= $r(x, t)$ , prescribed volumetric heat flux per volume $[W \cdot m^{-3}]$
q	= $h \cdot (T - T_0)$ , surface convection $[W \cdot m^{-2}]$
h	= $h(x,t)$ , the film coefficient $[W \cdot m^{-2}K^{-1}]$
$(T - T_0)$	= difference between inside and outside temperature (sink temperature) $[K]$

ABAQUS can solve the following types of heat transfer problems:

#### Uncoupled heat transfer analysis:

These are heat transfer problems involving conduction, forced convection, and boundary radiation. Uncoupled heat transfer analysis calculates the temperature field, without knowledge of stress/deformation state. This procedure solves pure heat transfer problems. These heat transfer problems can be steady state (time excluded/transient), unsteady state (time included) and linear or non-linear.

#### Sequentially coupled thermal-stress analysis:

When stress/displacement is dependent of a temperature field, but there is no inverse dependency, it is called a sequentially coupled thermal-stress analysis. A sequentially coupled thermal-stress analysis first solves the pure heat transfer problem, and then reads the temperature solution into a stress analysis as a predefined field. In the stress analysis, the temperature can vary with time and position, but is not changed by the stress analysis solution.

Two analyses have to be done. First a heat transfer analysis and, secondly, a thermal- stress analysis. ABAQUS allows the use of different meshes between these two models.

#### Fully coupled thermal-stress analysis:

A fully coupled thermal-stress analysis is used when thermal, electrical and mechanical solutions effect each other strongly. For example, spot welding is such process where thermal, electrical and mechanical solutions are strongly dependent on each other. These problems can be steady state (time excluded/transient), unsteady state (time included) and linear or nonlinear.

#### Adiabatic analysis:

Is used in cases where mechanical deformation causes heating, but the event is so rapid that this heat has no time to diffuse through the material an adiabatic analysis can be performed.

#### **Coupled thermal-electrical analysis:**

Is used in cases where heat is generated due to the flow of electrical current through a conductor.

#### **Cavity radiation:**

In an uncoupled heat transfer, cavity radiation can be included.

#### 7.2 **ABAQUS mass diffusion analysis**

An ABAQUS mass diffusion analysis can model the transient and steady-state diffusion of one material through another. For example: hydrogen through metal. It requires the use of mass diffusion elements such as DC2D3 or DC3D4, depending on the model. ABAQUS mass diffusion analysis can be used to model temperature and pressure driven mass diffusion.

The basic solution variable is the "normalized concentration ( $\phi$ )" also called the activity of the diffusing material. Firstly, some fundamental definitions will be explained.

#### <u>Solubility:</u>

Is the ability of a liquid (called the solute) to dissolve into a solid (called the solvent) to become a homogenous unit of solute and solvent. The solubility depends on the solute, solvent, temperature and pressure. The degree of solubility can be measured as the degree of saturation of a solvent, however the addition of more water than the solubility (or degree of saturation) will not make any difference.

In ABAQUS, the solubility of a material can be specified in the *solubility edit material dialog box*. Solubility (s) is used to define the "normalized concentration ( $\phi$ )" of the diffused material in the diffusing phase in a mass diffusion process. Taking the solubility equal to 1, the concentration equals the normalized concentration, see equation 7.3.

#### <u>Diffusivity:</u>

In heat transfer analysis, the diffusivity of heat is called thermal diffusivity.

$$a = \frac{k}{\rho \cdot c_p} \tag{7.2}$$

- = Thermal diffusivity  $[m^2 \cdot s^{-1}]$ а
- = Thermal conductivity ( $\lambda$ ) [ $W \cdot m^{-1}K^{-1}$ ] k
- = Density  $[kg \cdot m^{-3}]$ ρ
- = Specific heat capacity  $[J \cdot kg^{-1}K^{-1}]$  $C_p$

In mass transfer analysis this is called the diffusivity of mass.

#### Normalized concentration:

С

The normalized concentration of a solute diffusing with a solvent can be calculated as follows:

$$\phi = \frac{c}{s}$$
(7.3)  
 $c = \text{Mass concentration } [kg \cdot m^{-3}]$   
 $S = \text{Solubility } [ppm]$ 

The governing equation that ABAQUS uses to calculate the diffusive flux is an extension of Fick's law of diffusion, see equation 5.3. The difference can be found in the fact that the equations used by ABAQUS allow for a non-uniform solubility of the solute (the diffusing substance) through the solvent (the base material) and for mass diffusion driven by gradients of temperature and pressure.

$$J = -sD \cdot \left[ \frac{\partial \phi}{\partial x} + \kappa_s \frac{\partial}{\partial x} (\ln(T - T^Z)) + \kappa_p \frac{\partial p}{\partial x} \right]$$
(7.4)

 $\begin{array}{lll} D(c,T,f) &= \text{Diffusivity } [m^2 \cdot s^{-1}] \\ s(T,f) &= \text{Solubility } [ppm] \\ \kappa_s(C,T,f) &= \text{Soret factor, providing diffusion because of a temperature gradient } [-] \\ T &= \text{Temperature } [K] \\ T^Z &= \text{Value of the absolute zero on the temperature scale used } [-] \\ \kappa_p(C,T,f) &= \text{Pressure stress factor, providing diffusion, driven by the gradient of the pressure stress } [-] \\ C &= \text{Concentration of the diffusing material } [kg \cdot m^{-3}] \\ f &= \text{Other predefined field variables (potential) } [-] \end{array}$ 

Fick's law of mass diffusion is a linear equation. The extended law used by ABAQUS becomes non-linear since  $D(c, \theta, f)$ ,  $\kappa_s(c, \theta, f)$  and  $\kappa_p(c, \theta, f)$  depend on the concentration.

Diffusion is assumed to be driven by the gradient of a general chemical potential. The relation between Fick's law and the general chemical potential can be found in appendix E.

To define diffusivity in ABAQUS, a law option must be selected to specify how you want to define diffusivity behaviour. The user can choose between two options:

- Select the "general law" when you want to use the general chemical potential mass diffusion:

$$J = -sD \cdot \left[ \frac{\partial \phi}{\partial x} + \kappa_s \frac{\partial}{\partial x} (\ln(T - T^Z)) + \kappa_p \frac{\partial p}{\partial x} \right]$$
(7.5)

- Select "Fick's law" when you want to use Fick's diffusion law:

$$J = -D \cdot \left(\frac{\partial \phi}{\partial x} + s\kappa_p \frac{\partial p}{\partial x}\right)$$
(7.6)

Note that equation (7.6) can be driven by the gradient of concentration and by the gradient of pressure.

This extended form of Fick's equation can be used as an alternative to the driving potential. The difference between the extended form of Fick's law and the driving potential equation can be found in the fact that the extended form of Fick's law automatically converts  $\kappa_s(c, \theta, f)$  because  $s = s(\theta)$ . Thus, diffusivity is the relation between the concentration flux (J) of the diffusing material and the gradient of the chemical potential. The driving potential is that part of the diffusion equation which is responsible to drive the mass diffusion process. In other words, in case of temperature driven mass diffusion it does not really matter which procedure you choose.

# Part 2: Numerical

## 8 Modelling isothermal moisture movement in wood, using ABAQUS transient heat conduction

#### 8.1 Introduction

When a wooden cylinder is exposed to varying environmental conditions, especially fluctuations in the relative humidity, due to the hygroscopic behaviour of wood, moisture will transfer through the wooden cylinder. Fluctuations in these surrounding conditions, especially fluctuations in relative humidity below the fibre saturation point, result in deformation in the form of shrinking or swelling. If these deformations do not exceed the elastic range, theoretically there is no problem. Beyond this elastic range, the so called plastic range, the wooden cylinder no longer returns into the initial state after removing of the load. This is called plastic deformation. Jakiela, Bratasz and Kozlowski [37] developed a numerical model describing moisture movement due to changing environmental conditions to calculate the related stress field. This model has been applied to lime wood cylinders. Schellen and Schijndel [36] verified the work done by Jakiela, Bratasz and Kozlowski with help of a numerical COMSOL (multiphysics engineering simulation software) model.

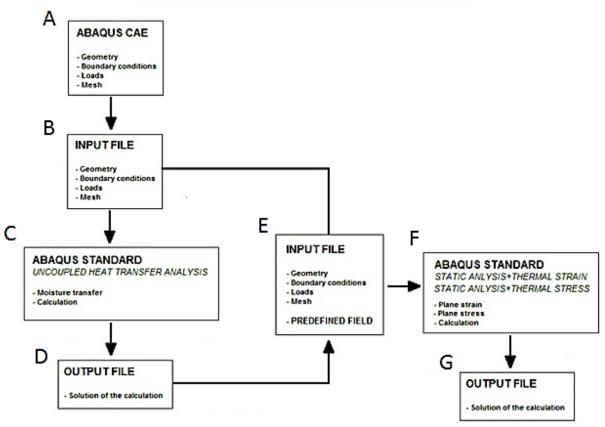
Chapter 8 discusses the validation of the research done by Jakiela at al [37] and Schellen et al [36]. The outcome of these researches will be validated by an ABAQUS finite element model. To validate the outcome by Jakiela and Schellen, an ABAQUS transient heat conduction analysis is performed. By using a transient heat conduction analysis procedure instead of mass diffusion analysis, the possibility to apply a transient analysis procedure to model moisture transport will be examined. One of the possible great advantages of using ABAQUS CAE (Complete ABAQUS Environment) is the ease of modelling. Within the CAE, it is possible to perform a heat conduction analysis and apply the outcome as a predefined field to a static stress / strain analysis. This is a so called sequentially coupled thermal-stress analysis. A sequentially coupled thermal strain analysis can be used when stress/displacement is dependent on a temperature field but there is no inverse dependency.

The aim of chapter 8 is to model the moisture movement in a wooden cylinder in response to a step change of 70 % – 30% relative humidity, which corresponds to an equilibrium moisture change (in time) of 14 % - 6 %. These results will be used to calculate the internal stress field and evaluate the risk of damage.

Most of the material parameters are directly copied from the work done by Jakiela and Schellen et al. Missing values are taken from Time [27], de Wit [20] and [38].

- \* More information about developing a constitutive model, see chapter 4.
- \* More information about analysis procedures, see chapter 7.

#### 8.2 Sequentially coupled multi-physics analysis



SEQUENTIALLY COUPLED MULTIPHYSICS ANALYSIS

Figure 8.1: Sequentially coupled multi-physics analysis ABAQUS.

Figure 8.1 represents a stepwise scheme of the multi-physics environment.

- A: In this step, the geometry of the structure will be developed, the boundary conditions will be applied, the loads will be applied and the model will be properly meshed.
- B: The model from step (A) will form an input file containing all the properties as discussed in (A).
- C: The input file from step (B) will be exposed to an uncoupled heat transfer analysis to determine the heat field.
- D: This is the solution from step (C). This will be used as an input file for the next analysis.
- E: The temperature field from the previous analysis will serve as a predefined field to calculate the corresponding strain field within a static analysis.
- F: The input files from (B) and (E) will be used to perform a static analysis with thermal strain calculation.
- G: The outcome from step (F), thermal stress and strain field.

### 8.3 ABAQUS model

#### Geometry:

 $\emptyset$  = 0.13 m lime wood, see figure 8.2.

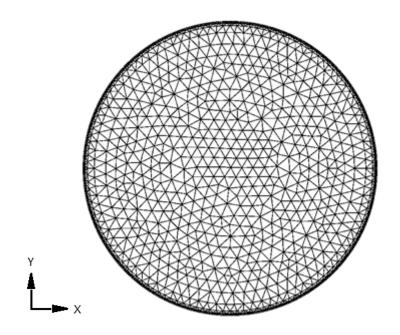


Figure 8.2: Lime wood ABAQUS model.

#### Hygro thermal equation:

Thermal transport within the ABAQUS model is based upon equation:

$$\rho c_p \frac{\partial T}{\partial t} = \frac{\partial}{\partial x} \left( \lambda \frac{\partial T}{\partial x} \right)$$
(8.1)

Water vapour transport by diffusion is based upon equation:

$$\frac{\partial u}{\partial t} = \frac{\partial}{\partial x} \left( D_u \frac{\partial u}{\partial x} \right)$$
(8.2)

#### **Boundary conditions:**

Thermal:

$$q = h \cdot \left(T_0 - T_s\right) \tag{8.3}$$

- q = heat flux at surface  $[W \cdot m^2]$
- *h* = heat transfer coefficient (7.7, based on M. de Wit)  $[W \cdot m^{-2}K^{-1}]$

$$h = \frac{Q}{A \cdot \Delta T}$$
  $Q$  = heat flow [W]

 $T_0$  = 20 °C  $T_S$  = Surface temperature [°C]  $T_{\infty}$  = 20 °C

Hygric:

$$g = \beta \cdot \left( u_0 - u_s \right) \tag{8.4}$$

 $g = \text{moisture flux at surface } [kg \cdot m^{-2}s^{-1}]$   $\beta = \text{moisture transfer coefficient } (0.003, \text{ based on M. de Wit) } [20] [kg \cdot m^{-2}s^{-1}]$   $u_0 = 14 [\%]$   $u_s = 6[\%]$  t = 0 [s]  $t_{\infty} = \infty$   $RH_0 = 70 [\%]$   $RH_{\infty} = 30 [\%]$ 

The model surface is constraint (type: coupling) to a reference point in space. The constraint degree of freedom is UR3 (vertical movement). By coupling the surface to a reference point in space, rigid body rotation cannot take place and the model is free to move horizontal in UR1 and UR2 direction.

#### **Material properties:**

Mean dry density = 530  $[kg \cdot m^{-3}]$ 

#### Modulus of elasticity:

RH	Tangential direction	Radial direction
[%]	[MPa]	[MPa]
20	600	1120
35	490	900
50	450	820
65	420	770

#### Mechanical stress and strain:

$$\begin{pmatrix} \varepsilon_{x} \\ \varepsilon_{y} \\ \gamma_{xy} \end{pmatrix} = \begin{pmatrix} \frac{1}{E_{x}} & -\frac{V_{xy}}{E_{y}} & 0 \\ -\frac{V_{yx}}{E_{x}} & \frac{1}{E_{y}} & 0 \\ 0 & 0 & \frac{1}{G_{xy}} \end{pmatrix} \begin{pmatrix} \sigma_{x} \\ \sigma_{y} \\ \tau_{xy} \end{pmatrix} + \begin{pmatrix} \alpha_{x} \\ \alpha_{y} \\ 0 \end{pmatrix} \Delta \theta + \begin{pmatrix} \kappa_{x} \\ \kappa_{y} \\ 0 \end{pmatrix} \Delta w$$
(8.5)

$\mathcal{E}_{x}$ , $\mathcal{E}_{y}$	= Normal strain components [–]
$\gamma_{xy}$	= Shear strain components [–]
$E_{x}$ , $E_{y}$	= Moduli of elasticity $[N \cdot m^{-2}]$
${m V}_{xy}$ , ${m V}_{yx}$	= Poisson's ratio [–]
$G_{_{xy}}$	= Shear modulus $[N \cdot m^{-2}]$
$\sigma_{x}, \sigma_{y}$	= Normal stress components $[N \cdot m^{-2}]$
$\alpha_{_{x}}$ , $\alpha_{_{y}}$	= Linear thermal expansion coefficient $[m \cdot m^{-1} \cdot K^{-1}]$
$\Delta \theta$	= Temperature increment [K]
$\Delta w$	= Moisture content increment $\left[kg \cdot m^{-3}\right]$
$K_{x}$ , $K_{y}$	= Linear relative deformation due to changing moisture content
	$[m \cdot m^{-1} \cdot (kg \cdot m^3)^{-1}]$

Equation (8.5) describes the stress and strain relation by means of the generalized Hooke's law for an anisotropic material. Concerning a wooden cylinder within isothermal conditions, there will be no contributions due to thermal expansion. As a result of this condition, the strain calculated depends on the moduli of elasticity ( $E_x E_y$ ), the normal stress components and the

hygro-expansional coefficients ( $\kappa_x \kappa_y$ ).

#### **Dimensional change coefficient:**

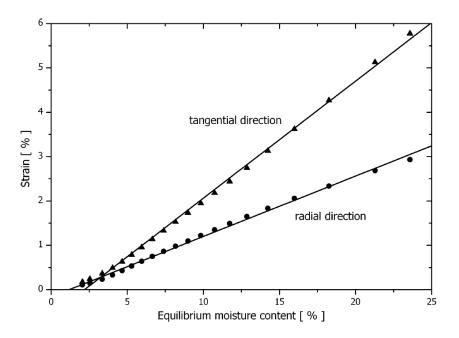


Figure 8.3: Dimensional change of lime wood in the radial and tangential direction plotted as a function of equilibrium moisture content (EMC) (S. Jakiela).

The dimensional change (swelling) coefficient ( $\alpha_R$ ,  $\alpha_T$ ) can be determined from the slope of figure 8.3. Figure 8.3 shows the tangential and radial strain as a function of the equilibrium moisture content. The expansion coefficients ( $\alpha_R$ ,  $\alpha_T$ ) can be determined by calculating the slope of the graph.

$$\alpha_R = 0.13$$
  
 $\alpha_T = 0.28$ 

#### Moisture diffusion coefficient:

Table 8.2: Moisture diffusion coefficient as a function of equilibrium moisture content (EMC) (S. Jakiela).

Equilibrium moisture content [%]	Radial diffusion coefficient [m^2/h]	Tangential diffusion coefficient [m^2/h]	Longitudinal diffusion coefficient [m^2/h]
0	0.0003888	0.0003888	0.0009
0.05	0.0004751	0.0004751	0.00504
0.055	0.0004841	0.0004841	0.00535
0.07	0.0005137	0.0005137	0.00567
0.085	0.0005461	0.0005461	0.00585
0.09	0.0005572	0.0005572	0.00567
0.135	0.0006690	0.0006690	0.00454
0.18	0.0008026	0.0008026	0.00307
0.23	0.0009690	0.0009690	0.00210
0.28	0.0012029	0.0012029	0.00135

Equilibrium moisture content (EMC) as a function of Relative humidity (RH) at 20° C:

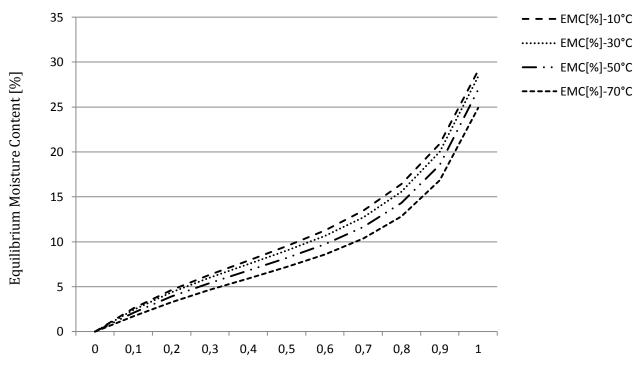
$$EMC = \frac{1800}{W} \left[ \frac{K(RH)}{1 - K(RH)} + \frac{K_1 K(RH) + 2K_1 K_2 K^2 (RH)^2}{1 + K_1 K(RH) + K_1 K_2 K^2 (RH)^2} \right]$$
(8.6) = (2.8)

$$K = 0.805 + 0.000736T - 0.00000273T^2$$
(8.7)

$$K_1 = 6.27 - 0.00938 \cdot T - 0.000303 \cdot T^2 \tag{8.8}$$

$$K_2 = 1.19 + 0.0407 \cdot T - 0.000293 \cdot T^2 \tag{8.9}$$

RH = Relative humidity [%] T = Temperature [°C]



#### Relative Humidity [1/100 %]

Figure 8.4: Equilibrium moisture content (EMC) as a function of relative humidity (RH) at 10 °C, 20 °C, 30 °C and 40 °C.

### 8.4 Results

The wooden cylinder is in equilibrium with its surrounding at t = 0. The relative humidity at t = 0 equals 70% which corresponds to 14% of equilibrium moisture content, see figure 8.4. At t = 1 the surrounding conditions suddenly change. The relative humidity at t = 1 drops from 70% to 30%, this corresponds to 6% equilibrium moisture content. The environment is kept constant at  $RH_1 = 30\%$  after that. From t = 1 the wooden cylinder is slowly drying as it releases moisture. From t = 1 the wooden cylinder seeks for a new equilibrium with its surrounding condition. With help of ABAQUS finite element model the time to reach complete equilibrium was calculated at ~ 40 days, see appendix F. The process to this new equilibrium will be discussed now.

### 8.4.1 Distribution of moisture content after 24 hours and 10 days

Figure 8.5 represents the scalar field of the changing moisture content of the wooden cylinder after 24 hours. Figure 8.5 shows that after 24 hours the inner core is still at the initial 14% moisture content. The surface of the wooden cylinder shows a fast transition in moisture content.

Moisture concentration after 24h:

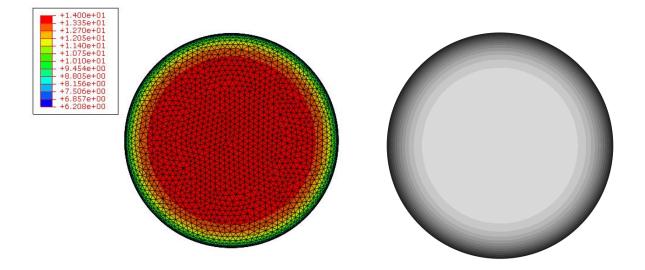


Figure 8.5: Moisture content (MC) scalar field of wooden cylinder exposed to a change in relative humidity (RH) from 70% down to 30% after 24 h.

Figure 8.6 shows the changing moisture content of different depths from the surface as a function of time. The selected distances from surface up to 10 mm inside the wooden cylinder, illustrate a non-linear diffusion process. Figure 8.6 shows that the change in moisture content is maximal at the surface. The first 1 mm to 5 mm from the surface level instantaneously changes its moisture content. The core of the cylinder lying deeper than 1 centimetre does not experience any change in the moisture content before 3 hours. After 24 hours, at 1 centimetre from the surface, the moisture content reduces from 14% to 11% moisture content. After 24 hours, at 0.5 mm from the surface, the moisture content drops from 14% down to 9%. Figure 8.6 shows that although the response may not be quick, the cylinder seeks for new equilibrium; see figure 8.9 and appendix F.

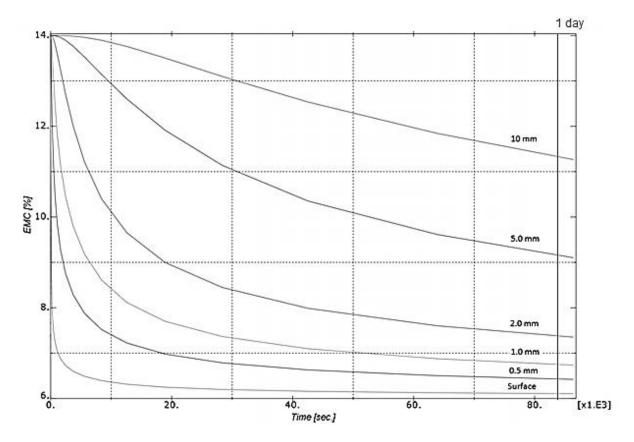


Figure 8.6: Distribution of moisture content at selected distances from the surface up to 10 mm into a wooden cylinder with a step change of 14% MC to 6% MC which is equal to 70% RH to 30% RH after 24 h.

Figure 8.7 shows the moisture distribution in the wooden cylinder after a drying period of 10 days. The inner core of the cylinder reduces from 14% moisture content to 11% moisture content.

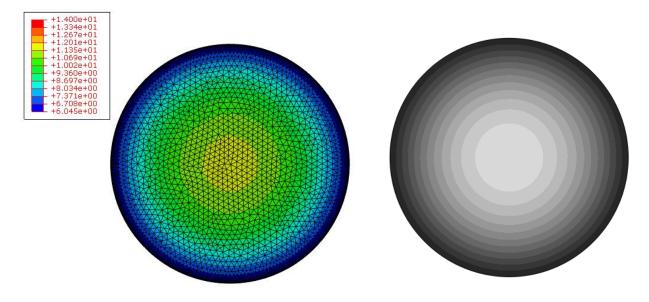


Figure 8.7: Moisture content (MC) scalar field of wooden cylinder exposed to a change in relative humidity (RH) from 70% down to 30% after 10.

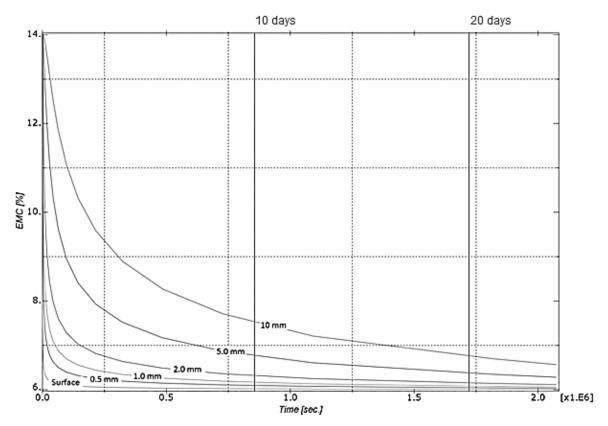


Figure 8.8: Distribution of moisture content (MC) at selected distances from the surface up to 10 mm into a wooden cylinder with a step change of 14% to 6% equal to 70% to 30% relative humidity (RH) after 10 and 20 days.

### 8.4.2 Stress development in radial and tangential direction

Figure 8.9 shows the calculated radial stress at different depths from the surface as a function of time. Because the wooden cylinder is releasing moisture, the cylinder slowly shrinks into the direction of the centre. The radial stress due to shrinkage increases in the direction towards the cylinder centre.

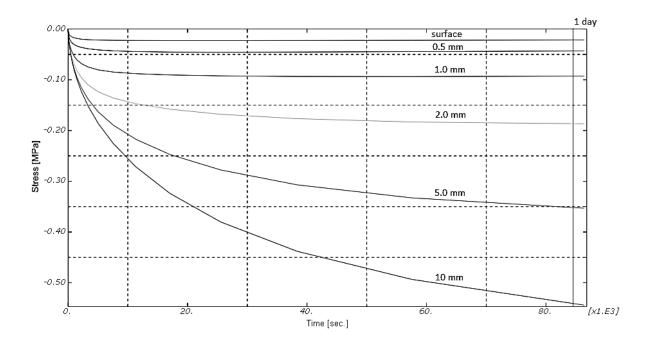


Figure 8.9: Radial stress at selected distances from the surface up to 10 mm into a wooden cylinder with a step change of 14% to 6% moisture content (MC) equal to 70% to 30% relative humidity (RH) after 24 h.

Figure 8.10 shows the development of tangential stress at different depths from the surface as a function of time. The maximum tangential strength of ~ 5.5 MPa (S. Jakiela [37]) has been exceeded. The elastic range of ~ 2.5 MPa (S. Jakiela [37]) has been exceeded more than 2 times. With continues drying of the interior layers, the stress slowly decreases. This slow decrease is the result of the slow vanishing of the moisture gradient as the interior layers dry.

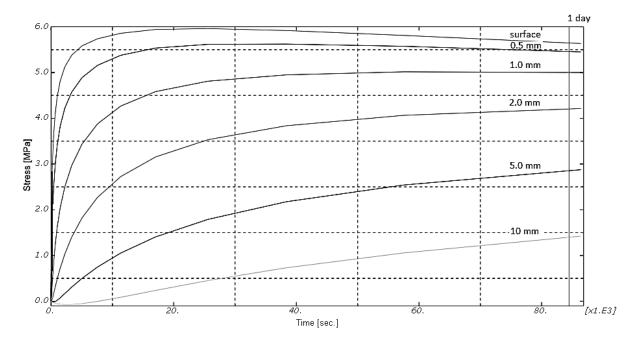


Figure 8.10: Tangential stress at selected distances from the surface up to 10 mm into a wooden cylinder with a step change of 14% to 6% moisture content (MC) equal to 70% to 30% relative humidity (RH) after 24 h.

#### 8.4.3 Strain development in radial and tangential direction

Figure 8.11 shows the development of radial strain in compression perpendicular to the grain at different depths from the surface as a function of time. Generally, the maximum elastic strain at which wood begins to plastically deform lies around the 0.004. As one can see, this critical value is rapidly exceeded. Equivalent to the tangential stress development, the radial strain shows a steep slope at the surface, which gradually decreases when going deeper into the material.

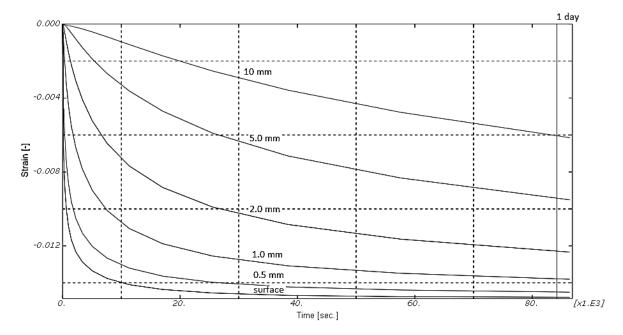


Figure 8.11: Radial strain at selected distances from the surface up to 10 mm into a wooden cylinder with a step change of 14% to 6% moisture content (MC) equal to 70% to 30% relative humidity (RH) after 24 h.

Figure 8.12 shows the development of tangential strain in compression perpendicular to the grain at different depths from the surface as a function of time.

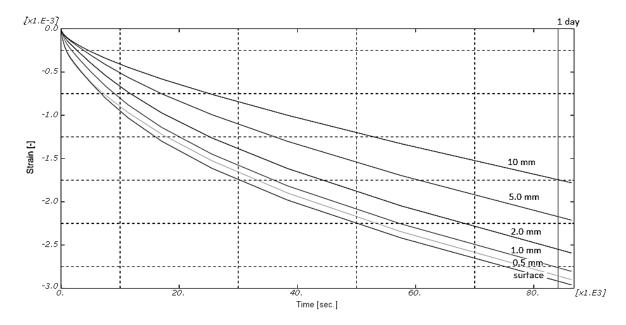


Figure 8.12: Tangential strain at selected distances from the surface up to 10 mm into a wooden cylinder with a step change of 14% to 6% moisture content (MC) equal to 70% to 30% relative humidity (RH) after 24 h.

### 8.5 Verification

The results of the ABAQUS model are compared to the results from Jakiela et al [37] and Schellen and Schijndel [36]. The results found by Schellen and Schijndel were computed with help of a numerical model within COMSOL as a comparative benchmark of the research done by Jakiela et al. The material properties which were implemented into the ABAQUS finite element model were taken from Jakiela et al [37], which are given in figure 8.13 and 8.15.

Comparing the moisture distribution computed with help of ABAQUS after 24 hours (figure 8.6) and the results found by Jakiela et al [36] (figure 8.13), it can be concluded that these results are very much the same.

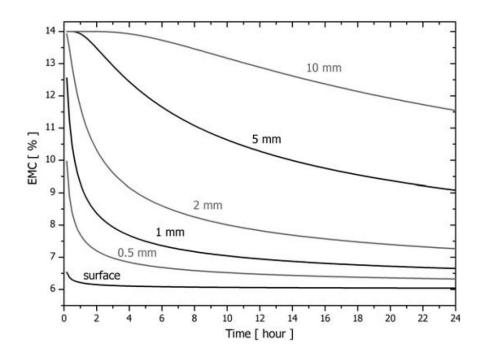


Figure 8.13: Calculation of change in distribution of moisture content (MC) at selected distances from the external surface of a wooden cylinder for a step change of 70 % - 30 % relative humidity after 24 h. (RH) (S. Jakiela)

A slight difference can be found in the slope of the surface line in the very beginning of the process. This difference has been calculated to be smaller than 5%. The slope of the line representing the moisture distribution at surface level found by Schellen, Schijndel and Bratasz et al seems to be slightly steeper. This difference is probably a result of a small difference in the vapour transfer coefficient. This difference in vapour transfer coefficient ( $\beta$ ) is the result of different hygric boundary conditions. Within the ABAQUS model, the moisture content was prescribed at the boundary and within the COMSOL model, the vapour pressure was prescribed at the boundary, see equations (8.10) and (8.11).

ABAQUS:

$$g = \beta (u_0 - u_s) \tag{8.10}$$

 $\beta$  = 0.003, based on M. de Wit [20]

COMSOL:

$$g = \beta (p_0 - p_s) \tag{8.11}$$

 $\beta$  = 1.5E-6, based on Schellen [36]

Figure 8.14 shows the results of a small change in the vapour transfer coefficient on the slope of the curve. As the vapour transfer coefficient reduces, the slope of the moisture distribution at the surface seems to decrease.

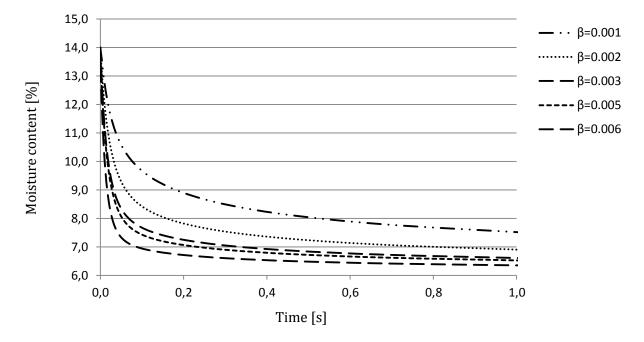


Figure 8.14: Dependency of the surface moisture content distribution upon the vapour transfer coefficient ( $\beta$ ).

Comparing the tangential stresses computed with help of ABAQUS after 24 hours (figure 8.10) and the results found by Jakiela et al [37], see figure 8.15. There seems to be almost difference in the maximum tangential stress.

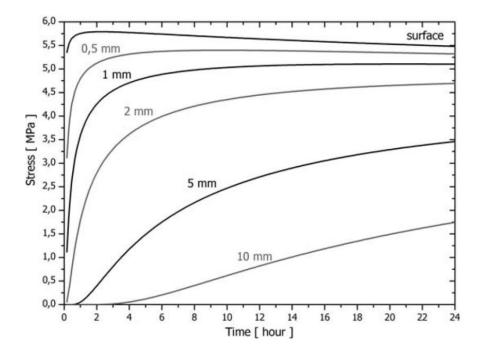


Figure 8.15: Tangential stress developing in wood as a result of the gradient of moisture content after 24 h. (S. Jakiela)

### 8.6 Conclusion

Modelling moisture distribution, using the transient heat conduction analysis procedure from ABAQUS was successful. Also the coupling of the heat conduction analysis with the static analysis has been successful.

It is shown that moisture distribution is strongly non-linear. The first few millimetres from surface level responds very quickly to a changing relative humidity. The corresponding stress development in tangential direction (6.0 MPa) exceeds the maximum stress (5.5 MPa) and elastic limit (2.5 MPa) as defined by Jakiela [37]. Previous research has proven that the diffusion of moisture through wood is not pure Fickian, as calculated by ABAQUS. Suppose that the moisture distribution through wood obeys Fick's law of mass diffusion, this would always lead to very high stress development at surface level as shown by ABAQUS. As a result, cracking of the surface level would be almost instantaneous. Practical research and experience has proven that this is not the case. As a result, a non-Fickian or multi-Fickian model has been developed by others, describing the process of moisture distribution through wood more realistically. This non-Fickian or multi-Fickian model predicts a much less steep gradient at the surface in correspondence with practical observations, see figure 8.16.

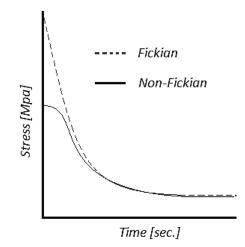


Figure 8.16: Fickian and Non-Fickian stress development in wood due to changing moisture content.

Although in practice the stress development at the surface level does not obey a pure Fickian process, still a strong gradient in moisture content gives rise to considerable drying stresses also due to the differential shrinkage being restrained.

The analysis performed with ABAQUS showed that the core of the lime wood cylinder lying deeper than 1 cm does not experience any change in moisture content for 3 hours. Stress decreases slowly as the moisture gradient gradually vanishes on a progressive drying occurs of the interior layers. Comparing the moisture distribution and stress field calculations by ABAQUS shows to be in good agreement with the result from Jakiela et al [37], Schellen and Schijndel [36].

# 9 Shape stability of sawn timber

# 9.1 Introduction

Sawn timber, when exposed to changing environmental conditions shrinks or swells. The deformation of sawn timber exposed to changing environmental conditions can be a serious problem. For example, museums are forced to use expensive climate conditioning installations to condition their wooden collections, such as panel paintings and antique wooden furniture. These climate conditioning installations are responsible for keeping the relative humidity at around 55%. This strict requirement, mainly based on many years of practical experience, comes with great costs to the museums. But, not only museums are affected by this problem, all industry producing wooden products for construction or interior decoration must take account of this hygroscopic behaviour of wood. For both museums and industry, it is important to investigate how the material properties, the internal structure and changing environmental conditions influence the shape deformation. More knowledge could lead to monetary savings and stable wooden products.

Without numerical simulation, it is almost impossible to predict the deformation resulting from changing environmental conditions. A proper constitutive model that takes into account the directional dependency of the material, wood properties and the orientation of the fibres (spiral grain orientation) is necessary to accurately predict the deformation.

Chapter 9 discusses the finite element simulations in relation to the stability of sawn timber exposed to changing environmental conditions. Four types of deformation will be discussed: cup, twist, crook and bow, as well as the influence of the conical angle and spiral grain on shape stability.

The finite element simulations performed in this chapter are all done with ABAQUS finite element software, using a sequentially coupled Temperature-Displacement analysis and multiphysic heat transfer - static stress/strain analysis. The material properties are taken from Kollmann [2] for pine; missing values are taken from Blumer [18] and Ormarsson [6].

It has been experientially observed that the longitudinal moduli of elasticity and the longitudinal moisture expansion coefficient vary from pith to bark. This behaviour will be neglected and the moduli of elasticity and expansion coefficient will be regarded as being constant. Also, the elastic strain parameters will be assumed to be independent of the distance from the pith and regarded as being constant. More information about varying material properties in longitudinal direction and from pith to bark can be found in Ormarsson et al [6].

# 9.2 Types of deformation

Sawn timber exposed to changing environmental conditions could cup, twist, crook or bow. These types of deformations can occur individually or combined, see figure 9.1. The stability of sawn timber strongly depends upon the orientation of the fibres and the growth ring. It is essential to have detailed information about the original position of the sawn timber within the tree stem and the orientation of the fibres.

The conical angle (angle between pith and fibre direction) of a tree can be regarded as being constant from the bottom to the top of the tree. Because the diameter decreases from the bottom to the top of the tree, the conical angle sine is negative. The conical angle is generally regarded as being constant  $-0.5^{\circ}$ .

In this report, cup, twist, crook and bow deformation will always be determined as shown by figure 9.1, using displacement  $\delta$  (cup, crook and bow) and the angle  $\phi$  (twist).

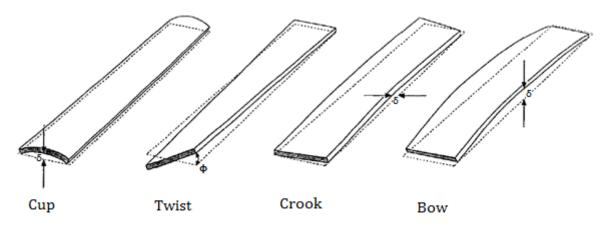


Figure 9.1: Different deformation types (Ormarsson, 1999 [6]).

### 9.3 Numerical setup

### 9.3.1 Models

Three numerical models where developed, all with different pith orientation. The first model is called Wood Board -1 (WB-1), second model is called Wood Board -2 (WB-2) and the third model is called Wood Board -3 (WB-3), see figure 9.2.

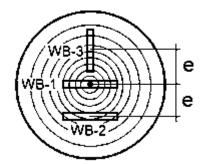


Figure 9.2: WB-1, WB-2 and WB-3 stem orientation.

Table 9.1:	Dimension	of wood	beards.
Tuble 7.1.	Dimension	01 11000	bear ab.

	Spiral	Conical angle	Pith distance	Thickness	Length of	Width of
	grain	[degrees]	from centre	of wood	wood	wood
	[degrees]		[mm]	board	board	board
				[mm]	[mm]	[mm]
WB-1	-4,0°	-0,5°	0	15	1000	200
WB-2	-0.0°	0°	-107.5	15	1000	200
WB-3	-0.0°	0°	107.5	15	1000	200

The pith of WB -1 is in its centre. WB -1 has a conical angle of  $-0.5^{\circ}$ , a spiral grain of  $-4.0^{\circ}$  and growth ring orientation as denoted by figure 9.2. The pith of WB -2 is located at e = 107.5 mm from the middle of the wood board. WB -2 has no conical angle, no spiral grain orientation and a growth rings orientation, as denoted by figure 9.2. The pith of WB -3 is located at e = 107.5 mm from the middle of the wood board. WB -3 has no conical angle, no spiral grain orientation and a growth ring orientation as denoted by figure 9.2.

Time [s]	Relative Humidity [%]	WB -1	WB -2	WB -3
t <sub>0</sub>	$RH_0$	70 %	70 %	70 %
<i>t</i> <sub>1</sub>	$RH_{\infty}$	30 %	30 %	30 %

At t = 0 WB-1, WB-2 and WB-3 are in equilibrium with its direct environment of 70% relative humidity, corresponding to 14% moisture content. At t = 1, WB-1, WB-2 and WB-3 where exposed to a step change of 70% relative humidity to 30% relative humidity, corresponding to a decrease in moisture content from 14% to 6%.

It should be noted that the deformations displayed in this chapter are at a high scale factor. The deformations represented by figures are oversized representations of real world deformation.

### 9.3.2 Material data

Unities	Coefficients of hygro expansion	
$\alpha_L[m/m\%]$	3.0e-05	
$\alpha_{T}[m/m\%]$	3.6e-03	
$\alpha_R[m/m\%]$	1.9e-03	

#### Table 9.3: Coefficients of hygro-expansion (Kolmann [2]).

#### Table 9.4: Moduli of elasticity (Kolmann [2]).

Unities	Modulus of elasticity	
$E_L[MPa]$	13553	
$E_T[MPa]$	616	
$E_R[MPa]$	1232	

#### Table 9.5: Shear moduli (Kolmann [2]).

Unities	Shear modulus
$G_{LT}[MPa]$	836
$G_{LR}[MPa]$	788
$G_{TR}[MPa]$	79

#### Table 9.6: Poisson's ratio (Kolmann [2]).

Unities	Poison's ratio
$\mathcal{V}_{LT}[-]$	0.4
$v_{LR}[-]$	0.4
<i>v<sub>TR</sub></i> [-]	0.4

Radial diffusion	Tangential diffusion	Longitudinal diffusion	Moisture content [%]
[m^2/h]	[m^2/h]	[m^2/h]	wood
0.0003888	0.0003888	0.0009	0
0.0004751	0.0004751	0.00504	5
0.0004841	0.0004841	0.00535	5.5
0.0005137	0.0005137	0.00567	7
0.0005461	0.0005461	0.00585	8.5
0.0005572	0.0005572	0.00567	9
0.0006690	0.0006690	0.00454	13.5
0.0008026	0.0008026	0.00307	18
0.0009690	0.0009690	0.00210	23
0.0012029	0.0012029	0.00135	28

Table 9.7: Diffusion coefficients (Jakiela).

Table 9. 8: Density and specific heat capacity (Jakiela).

Unities	
$\rho[kg/m^3]$	530
$C_p[J/kgK]$	0.0015

### 9.3.3 Boundary conditions

Thermal:

$$q = h(T_0 - T_s) \tag{9.1}$$

q = Heat flux at surface 
$$[W \cdot m^{-2}]$$

*h* = Heat transfer coefficient (7.7) 
$$[W \cdot m^{-2}K^{-1}]$$

- $T_0$
- = 20 °C = 20 °C  $T_{\infty}$

Hygric:

$$g = \beta (u_0 - u_s) \tag{9.2}$$

= Moisture flux at surface  $[W \cdot m^{-2}]$ g = Moisture transfer co-efficient (0.003, by de Witt [20])  $[W \cdot m^{-2}K^{-1}]$ β = 14 [%]  $u_0$ = 6[%]  $u_s$ = 0 [s]t  $t_{\infty}$ = ∞  $RH_0 = 70 [\%]$ 

 $RH_{\infty}$  = 30 [%]

The four center nodes in the middle of the wood board have the following displacement boundary conditions: node 1 (U1, U2, U3), node 2(U3), node 3(U1, U3) and node 4 (U3).

### 9.4 Results

As a consequence of the changing moisture content from 14% to 6%, shape deformation occurs. This shape deformation is numerically calculated and will serve as a reference value in the upcoming chapters.

Figures 9.3 to 9.9 illustrate the shape deformation of WB -1, WB -2 and WB -3 due to this changing moisture content. Table 9.9 shows the deformation quantities schematized in figure 9.1.

Deformation	Twist	Bow	Cup	Crook
	[degrees]	[mm]	[mm]	[mm]
WB-1	2,00	0,00	0,00	0,00
WB-2	0,00	4,61	0,46	0,00
WB-3	0,00	0,00	0,00	-2,27

Table 9.9: Deformation due to changing moisture content, 14% - 6% after 10 days.

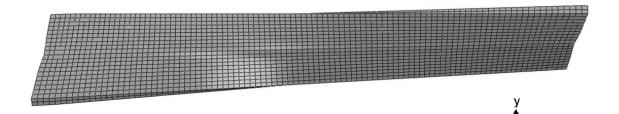


Figure 9.3: Twist deformation WB-1.

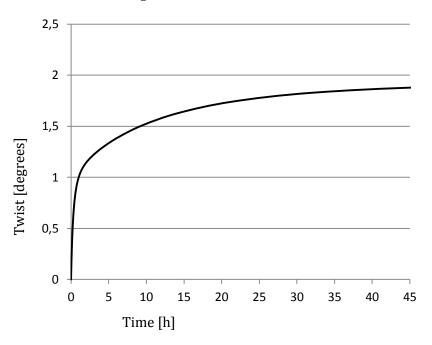
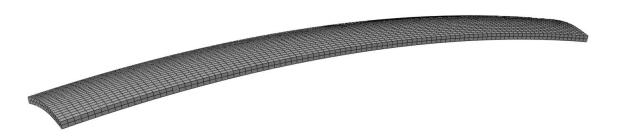
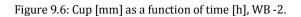


Figure 9.4: Twist [degrees] as a function of time [h], WB -1.



0,5 0,4 0,3 Cup [mm] 0,2 0,1 0,0 5 15 20 25 0 10 30 35 40 45 Time [h]

Figure 9.5: Cup and bow deformation WB-2.



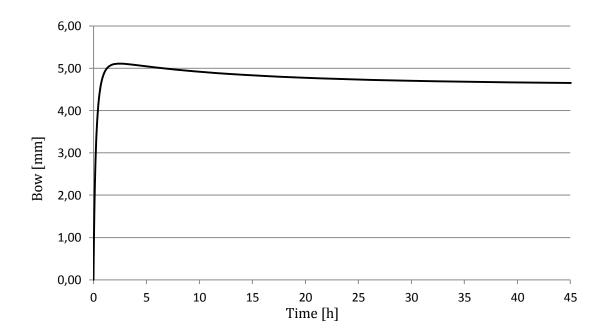


Figure 9.7: Bow [mm] as a function of time [h], WB -2.



Figure 9.8: Crook deformation WB-3.

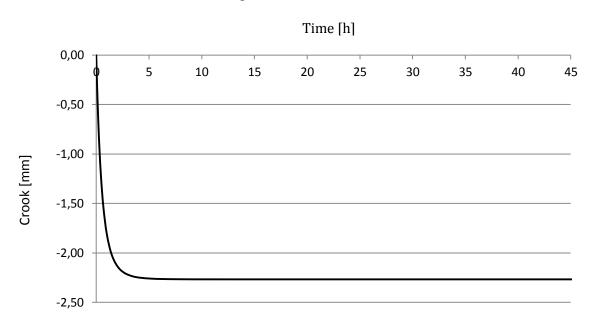


Figure 9.9: Crook [mm] as a function of time [h], WB -3.

### 9.5 Conclusion

Twist deformation under drying conditions is mainly the result of the spiral grain orientation. Without a spiral grain orientation, WB -1 would be stable and twist deformation would not occur. The strong relation between twist deformation and spiral grain orientation is a consequence of the wood board being much stiffer in the longitudinal direction, compared to the radial and tangential direction. Because the spiral grain equals the direction of the longitudinal material properties, placing the spiral grain under an angle of -4.0° results in a relatively great diagonal stiffness and, as a consequence, under drying conditions twist deformation of the wood board will occur. Although the model used by Ormarsson is dimensionally quite different, the result shown in figure 10.4 is in agreement with the result found by Ormarsson [6]. The wooden boards studied by Ormarsson were 3.0 m long, 100 x 10 mm in cross section and exposed to a change in moisture content from 27 % to 10.75 %. After 1 day of drying, Ormarsson calculated a twist deformation of 2.5 degrees. Figure 10.4 shows a strong twist gradient in the early stage of the drying process, as a consequence of progressive drying, this twist rate slowly decreases until equilibrium is reached. This strong twist rate in the early stage is a consequence of the average moisture content decreasing very quickly in the first few hours, see figure 9.10. This strong twist rate in the early stage of the drying process was also found by Ormarsson [6].

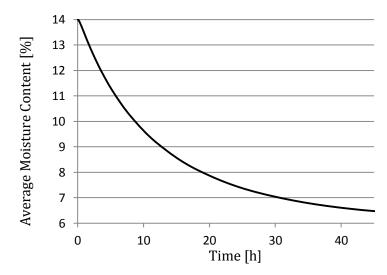


Figure 9.10: The average moisture content decreases very quickly in the first few hours.

Cup deformation is caused by the difference between radial and tangential shrinkage. Since shrinkage is greater in the tangential than in the radial direction, cup deformation develops. Also in the case of cup development, the rate of increase is the greatest in the early stage of the drying process. Crook deformation depends strongly on the distance between the pith and the centre of the wood board in case of WB -3, see figure 9.2. A wood board, originally taken close to the pith, will show a stronger crook deformation than one taken further away from the pith because further away from the pith the growth rings become relative straight, which make the wood board more stable, see figure 9.11. Ormarsson did not investigate crook deformation.

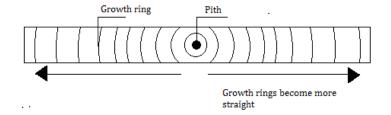


Figure 9.11: Further away from the pith the growth rings become relative straight.

Wood board -1 does not show bow deformation because it is stable due to its growth ring orientation, see figure 9.2. This is opposite to wood board -2 which shows significant bow deformation, see figure 9.7. The difference between wood board -1 and wood board -2 is clearly the orientation of the growth ring.

It is known that the direction of cupping depends upon the orientation of the growth rings. If the growth rings point upwards, the cupping direction will be downwards. In case of bow deformation, this is the opposite. The position of the pith, which is the centre of the growth rings, determines the direction of bowing. If the pith is located above the board, the bowing direction will be the same.

The reason for bowing cannot be the difference between radial and tangential shrinkage. The wood boards are exposed to equal drying condition at each surface, so unequal drying of the top and bottom surfaces can not also be the reason for this behaviour. It becomes doubtful whether bowing is the result of material properties or a consequence of the local cylindrical coordinate system. In the latter case it is doubtful if this bow effect would take place in a real world situation.

One possible explanation could be that bow deformation is the result of unequal material property distribution over the cross section as a consequence of the modelled local cylindrical coordinate system assuming to represent the growth ring orientation. Comparing the distribution of the local coordinate systems of wood board -1 and wood board -2, wood board -1 shows equal distribution of the local coordinate systems but wood board -2 does not show this equal distribution, see figure 9.12 and 9.13.

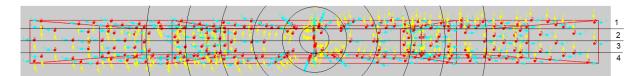


Figure 9.12: WB-1 Local coordinate system, longitudinal stiffness distribution.

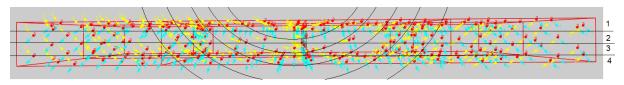


Figure 9.13: WB-1 Local coordinate system, longitudinal stiffness distribution.

Figure 9.12 shows an equal distribution of coordinate systems across intersection layers 1, 2, 3 and 4. Figure 9.13 does not show an equal distribution of coordinate systems across intersection layers 1, 2, 3 and 4 due to the horizontal cut off of the growth rings. This could explain bow deformation but does not have to be the real world situation. Ormarsson [6] also calculates bow deformation, but did not explain the effect. Figure 9.14 shows that increasing the distance between the pith and the wood board results in a decreasing bow deformation. It is the same reason why the crook deformation decreases when increasing the distance between the pith and the wood board results.

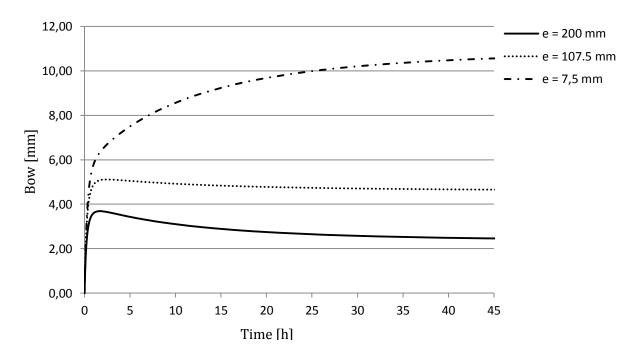


Figure 9.14: Influence of the distance between pith and wood board centre on bow deformation.

### 10 Influence of material parameters on shape stability

### **10.1** Introduction

This chapter discusses the influence of changing mechanical properties in regard to shape stability, for which each mechanical property was reduced by 50% and compared to a reference value.

$$E_{L}^{red} = \frac{E_{L}^{ref}}{2} \qquad G_{L}^{red} = \frac{G_{L}^{ref}}{2} \qquad \alpha_{L}^{red} = \frac{\alpha_{L}^{ref}}{2}$$

$$E_{T}^{red} = \frac{E_{T}^{ref}}{2} \qquad G_{T}^{red} = \frac{G_{T}^{ref}}{2} \qquad \alpha_{T}^{red} = \frac{\alpha_{T}^{ref}}{2} \qquad (10.1)$$

$$E_{R}^{red} = \frac{E_{R}^{ref}}{2} \qquad G_{R}^{red} = \frac{G_{R}^{ref}}{2} \qquad \alpha_{R}^{red} = \frac{\alpha_{R}^{ref}}{2}$$

In line with chapter 9, the same numerical models are used to investigate the influence of changing mechanical properties. Wood board -1 is used to investigate the influence of these changing mechanical properties on twist deformation. Wood board -2 is used to investigate the influence of these changing mechanical properties on bow and cup deformation and wood board -3 is used to investigate the influence of these changing mechanical properties on these changing mechanical properties on these changing mechanical properties on bow and cup deformation and wood board -3 is used to investigate the influence of these changing mechanical properties on crook deformation.

### **10.2** Wood board -1: Influence of changing E, G, α on twist deformation

#### 10.2.1 Reduced elastic moduli

Figure 10.1 shows the result of reducing the elastic moduli (E) with 50 % of its reference value on twist deformation after a drying period of 45 hours. Reducing the elastic moduli (E) resulted in an overall increase of twist deformation. Calculations showed that the tangential elastic modulus has the smallest influence on twist deformation, +5.0% after a drying period of 45 hours. Reducing the longitudinal and radial elastic moduli increases twist deformation by +10 % after a drying period of 45 hours.

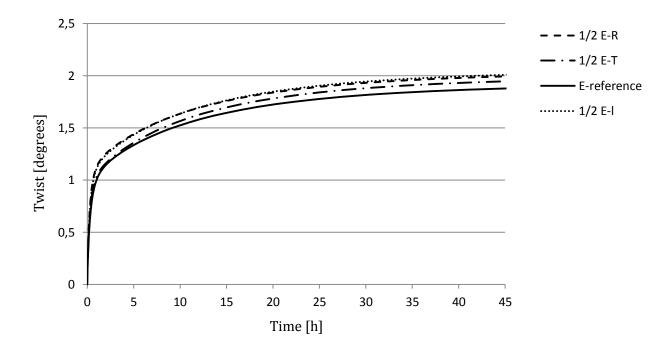


Figure 10.1: WB-1, influence of changing elastic moduli on twist deformation, step change of 70% - 30% RH after 45 h.

#### 10.2.2 Reduced shear moduli

Figure 10.2 shows the results of reducing the shear moduli (G) with 50% of its reference value on twist deformation after a drying period of 45 hour. Equal to the reduction of the elastic moduli, reducing the shear moduli resulted in an overall increase of twist deformation. Calculations showed that reducing G-LT, influences the twist deformation the least, compared to the other shear moduli, namely +10.0% after a drying period of 45 hours. Reduction of G-LR and G-TR, have the largest influence, namely +20% after a drying period of 45 hours.

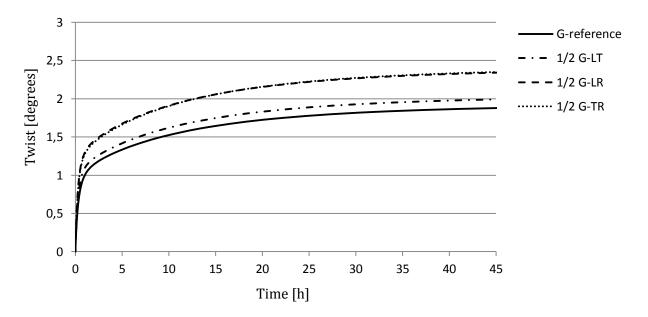


Figure 10.2: WB-1, influence of changing shear moduli on twist deformation, step change of 70% - 30% RH after 45 h.

#### 10.2.3 Reduced hygro-expansion

Figure 10.3 shows the results of reducing the hygro-expansion coefficient ( $\alpha$ ) with 50% of its reference value on twist deformation after a drying period of 45 hours. Figure 11.3 shows a relatively strong influence of the hygro-expansion coefficient with respect to twist deformation. Reducing the tangential hygro-expansion coefficient resulted in a significant twist reduction compared to the radial and longitudinal hygro-expansion coefficients. Reduction of the tangential hygro-expansion coefficient results in -100 % decrease of twist deformation after a drying period of 45 hours. Reducing the radial and longitudinal hygro-expansion coefficient respectively results in an increase of +28.0% and +17.0% of twist deformation after a drying period of 45 hours.

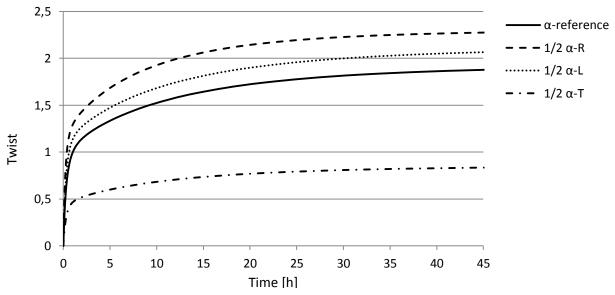


Figure 10.3: WB-1, influence of changing coefficient of hygro-expansion on twist deformation, step change of 70% - 30% RH after 45 h.

### **10.2.4 Conclusion**

Reducing the tangential, longitudinal and radial elastic moduli (E), increases twist deformation. The tangential elastic modulus has the least influence on twist deformation, +5.0% after a drying period of 45 hours. Reducing the longitudinal and radial elastic moduli results in increasing twist deformation of +10% after a drying period of 45 hours. After a drying period of 6 days, these increments have slightly reduced. After a drying period of 6 days, reduction of the tangential elastic modulus resulted in +4.0% twist increment. Reduction of the longitudinal and radial elastic moduli resulted in +8.0% twist increment after a drying period of 6 days.

The wooden boards studied by Ormarsson [6] are 3.0 m long, 100 x 10 mm in cross section and exposed to a change in moisture content (MC) from 27 % to 10.75 %. Ormarsson [6] calculated an increment of +10% twist deformation when reducing the tangential elastic modulus. This seems to be in line with the calculated +8.0 %. Ormarsson concludes that reducing the longitudinal elastic modulus does not affect the twist deformation and reducing the radial elastic modulus decreases twist deformation. This is in contradiction with the current results. This contradiction can be the result of different dimensional properties, different environmental conditions, differences in the constitutive model and differences in the strain model (Ormarsson for example included a mechano-sorptive strain parameter).

Calculations showed that reducing G-LT, influences the twist deformation the least, compared to the other shear moduli, namely +10.0% after a drying period of 45 hours. Reduction of G-LR and G-TR, have the largest influence, namely +20% after a drying period of 45 hours. After a drying period of 6 days reducing G-LT results in +7.0% more twist deformation, reducing G-LR and G-TR resulted in + 25% more twist deformation. These values differ from the results calculated by Ormarsson, see [6].

Reducing the tangential hygro-expansional coefficient shows the most significant influence on the twist development. Reducing the tangential hygro-expansional coefficient with 50% of its reference value resulted in -125% twist deformation after a drying period of 45 hours and -55% after a drying period of 6 days. Ormarsson [6] concluded that reducing the tangential hygro-expansional coefficient shows the most significant influence on twist deformation. This is in agreement with the current results. Ormarsson calculated a decrease of – 40 % after a drying period of 6 days; this is also in line with current results.

# **10.3** Wood board -2: Influence of changing E, G, α on cup deformation

#### 10.3.1 Reduced elastic moduli

Figure 10.4 shows the results of reducing the elastic moduli (E) with 50% of its reference value on cup deformation after a drying period of 45 hours. Figure 10.4 shows that reducing the tangential elastic modulus result in -18% decrease of cup deformation after a drying period of 45 hours. Reduction of the radial elastic modulus does not influence the cup deformation. Reducing the longitudinal elastic modulus resulted in a +6.0% increase of cup deformation after a drying period of 45 hours.

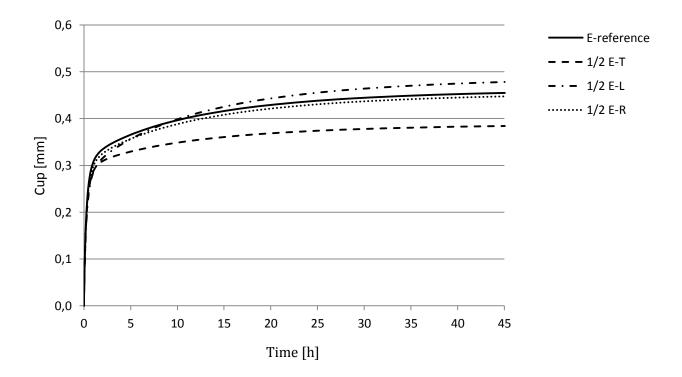


Figure 10.4: WB-2, influence of changing elastic moduli on cup deformation, step change of 70% - 30% RH after 45 h.

### 10.3.2 Reduced shear moduli

Figure 10.5 shows the results of reducing the shear moduli (G) with 50% of its reference value on cup deformation after a drying period of 45 hour. The influence of G-LR and G-TR compared to the reference value can be neglected. The influence of G-LT is significant larger, +15% after a drying period of 45 hours.

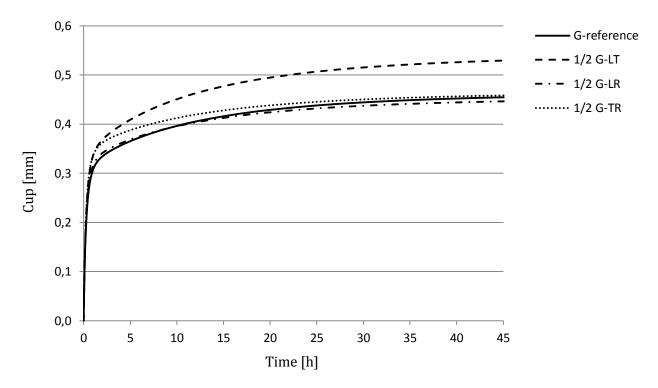


Figure 10.5: WB-2, influence of changing shear moduli on cup deformation, step change of 70% - 30% RH after 45 h.

#### 10.3.3 Reduced hygro-expansion

Figure 10.6 shows the results of reducing the hygro-expansion coefficient ( $\alpha$ ) with 50% of its reference value on cup deformation after a drying period of 45 hours. The influence of the longitudinal hygro-expansion coefficient can be neglected. Reducing the radial hygro-expansion coefficient with 50% of its reference value resulted in +85.0% increase of cup deformation after a drying period of 45 hours. Reducing the tangential hygro-expansion coefficient with 50% of its reference value, results in -130% decreasing cup deformation after a drying period of 45 hours.

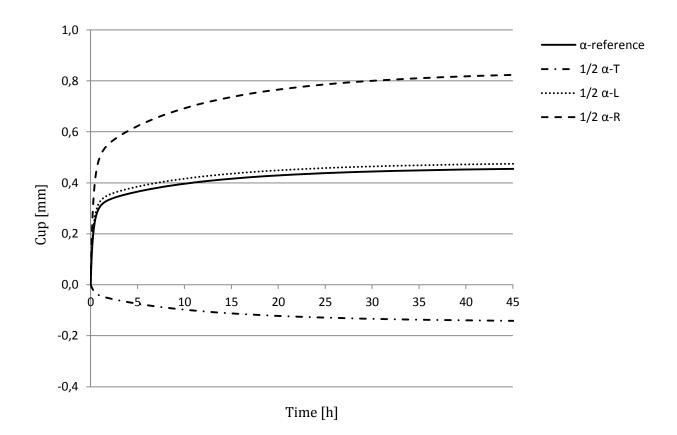


Figure 10.6: WB-2, influence of changing coefficient of hygro-expansion on cup deformation, step change of 70% - 30% RH after 45 h.

### **10.3.4 Conclusion**

Reduction of the radial elastic modulus does not influence the cup deformation. Reducing the longitudinal elastic modulus resulted in +6.0% increase of cup deformation after a drying period of 45 hours. Reduction of the tangential elastic modulus resulted in -18% decrease of cup deformation after a drying period of 45 hours. No significant difference can be found after a drying period of 6 days which means that after 45 hours equilibrium has been reached.

Because cup deformation is mainly the result of a difference in tangential and radial mechanical properties, one would expect significant influence of these mechanical properties on cup deformation. In case of the tangential elastic moduli, this seems to correspond with our expectation (+18%). But reduction of the radial elastic modulus does not seem to have influence on this deformation. The reason for this behaviour can be found in the difference between radial and tangential elastic moduli for pine wood. By reducing the radial elastic modulus (1232 MPa) by 50%, this value (616 MPa) equals the tangential modulus which is 616 MPa. Consequentially, there is no longer any difference between radial and tangential elastic modulus (616 MPa) by 50% results in a four times stiffer radial mechanical behaviour. This effect seems to be represented by figure 10.4. These calculated results differ from the results calculated by Ormarsson [6].

The influence of reducing G-LR and G-TR compared to the reference value can be neglected. The influence of G-LT is significant larger, +15% after a drying period of 45 hours. No significant difference has been found after a drying period of 6 days which means that after 45 hours equilibrium has been reached. These calculated results are in agreement with the results calculated by Ormarsson [6].

The influence of reducing the longitudinal hygro-expansion coefficient can be neglected compared to its reference value. Reducing the radial hygro-expansion coefficient with 50% of its reference value, results in +85.0% increase of cup deformation after a drying period of 45 hours. Reducing the tangential hygro-expansion coefficient with 50% of its reference value, resulted in -130% decreasing cup deformations. The tangential coefficient of hygro-expansion is mainly responsible for cup deformation. Reducing this value with 50% results in a significant decrease of cup deformations seems to be logical. Note that reducing the tangential hygro-expansion coefficient with 50% of its reference value resulted in cup deformation in opposite direction, see figure 10.6. This effect was also found by Ormarsson. The calculated results are in quantitative agreement with the results calculated by Ormarsson [6].

# **10.4** Wood board -2: Influence of changing E, G, α on bow deformation

#### 10.4.1 Reduced elastic moduli

Figure 10.7 shows the results of reducing the elastic modulus (E) with 50% of its reference value on bow deformation after a drying period of 45 hours. Reduction of the longitudinal elastic modulus with 50% of its reference value results in -35% decrease of bow deformation after a drying period of 45 hours. Reduction of the tangential and radial elastic modulus with 50% of its reference value results in +5% and +10% increase of bow deformation after a drying period of 45 hours.

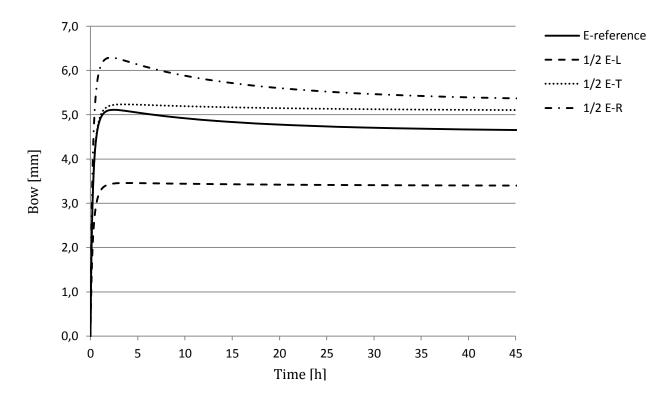


Figure 10.7: WB-2, influence of changing elastic moduli on bow deformation, step change of 70% - 30% RH after 45 h.

#### 10.4.2 Reduced shear moduli

Figure 10.8 shows the results of reducing the shear modulus (G) with 50% of its reference value on bow deformation after 45 hours. Figure 10.8 shows that reducing the G-TR with 50% of its reference value does not influence bow deformation. Reducing the G-LT with 50% of its reference value results in -17% bow deformation and reducing the G-TR with 50% of its reference value results in +6% bow deformation after a drying period of 45 hours.

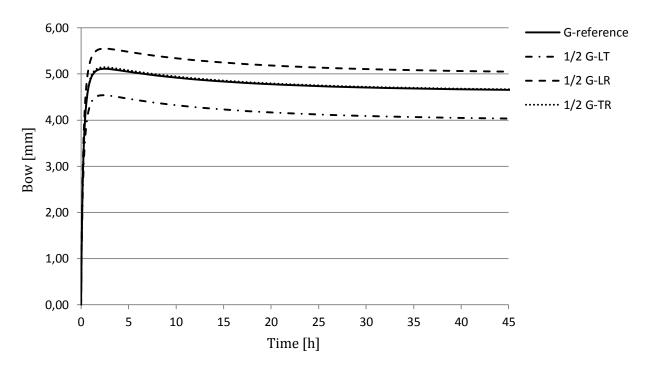


Figure 10.8: WB-2, Influence of changing shear moduli on bow deformation, step change of 70% - 30% RH after 45 h.

#### **10.4.3 Reduced hygro-expansion**

Figure 10.9 shows the results of reducing the hygro-expansion coefficient ( $\alpha$ ) with 50% of its reference value on bow deformation after a drying period of 45 hours. The longitudinal hygro-expansion coefficient does not influence bow deformation. Reduction of the radial coefficient of hygro-expansion with 50% of its reference value results in +45% bow deformation after a drying period of 45 hours. Reduction of the tangential coefficient of hygro-expansion seems to influence bow deformation quite significantly, -95.0% after a drying period of 45 hours.

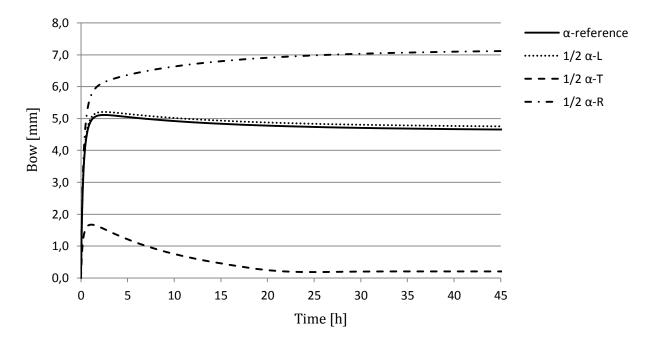


Figure 10.9: WB-2, influence of changing coefficient of hygro-expansion on bow deformation, step change of 70% - 30% RH after 45 h.

### **10.4.4 Conclusion WB-2, bow deformation:**

Reducing the longitudinal elastic modulus with 50% of its reference value, results in a significant decrease of bow deformation of -35% after a drying period of 45 hours and -26% after a drying period of 6 days. Reduction of the radial elastic modulus with 50% of its reference value resulted in +10% increase of bow deformation and +15% after a drying period of 6 days. Reduction of the tangential modulus of elasticity with 50% of its reference value resulted in a relative small increase of +5% bow deformation and +10% bow deformation after a drying period of 6 days. Reducing the radial elastic modulus influences the short time behaviour. Reducing the radial elastic modulus gives rise to a steep rate of bow deformation in the first 2.5 hours. These results seem to differ with the result calculated by Ormarsson [6]. Ormarsson calculated the greatest influence by reducing the radial elastic modulus instead of the longitudinal elastic modulus. Although these results seem to be in contrast with the results calculated by Ormarsson, the longitudinal elastic modulus having most influence on bow deformation confirms the theory that bow deformation is the result of unequal local coordinate distribution over the cross section, see chapter 9.

Reducing the G-TR with 50% of its reference value does not influence bow deformation. Reducing the G-LT with 50% of its reference value resulted in -17% bow deformation and after a drying period of 6 days this becomes -27% bow deformation. Reducing the G-TR with 50% of its reference value resulted in +6% bow deformation after a drying period of 45 hours and after a drying period of 6 days this becomes +9%. These results are in agreement with the calculations made by Ormarsson [6].

The longitudinal hygro-expansion coefficient does not influence bow deformation. Reduction of the radial hygro-expansion coefficient with 50% of its reference value results in +45% bow deformation after a drying period of 45 hours and +56% after a drying period of 6 days. Reduction of the tangential coefficient of hygro-expansion significantly influences bow deformation, -95.0% after a drying period of 45 hours and -90% after a drying period of 6 days. These results differ from the results calculated by Ormarsson [6]. Ormarsson concludes that reducing the longitudinal hygro-expansion coefficient leads to a significant reduction of bow deformation (-100%). Although these results seem to be in contrast with the results calculated by Ormarsson, the longitudinal hygro-expansion coefficient having most influence on bow deformation confirms the theory that bow deformation is the result of unequal local coordinate distribution over the cross section resulting in unequal longitudinal hygro-expansion over the cross section, see chapter 10.

### **10.5** Wood board -3: Influence of changing E, G, α on crook deformation

Reducing the longitudinal, tangential and radial elastic moduli seems to have no effect, compared to the reference value. Also, reduction of the shear moduli does not seem to affect the crook deformation. Figure 10.10 show that only a reduction of the radial hygro-expansion coefficient significantly influences crook deformation, -61% after a drying period of 45 hours.

#### **10.5.1 Conclusion**

Reduction of the elastic moduli and shear moduli seems to have no effect on the crook deformation. The only mechanical property influencing this crook behaviour seems to be the radial coefficient of hygro-expansion. The radial coefficient of hygro-expansion shows a significant reduction of crook deformation, -61% after a drying period of 45 hours. This reduction of -61% is reached in the first 5 hours and will remain unchanged for the rest of the drying period. Because the direction of deformation equals the radial direction, one would expect that reducing the radial stiffness would increase the crook deformation in this direction, but the very opposite seems to occur. Ormarsson [6] did not perform any calculations on the influence of reduced material properties with respect to crook deformation.

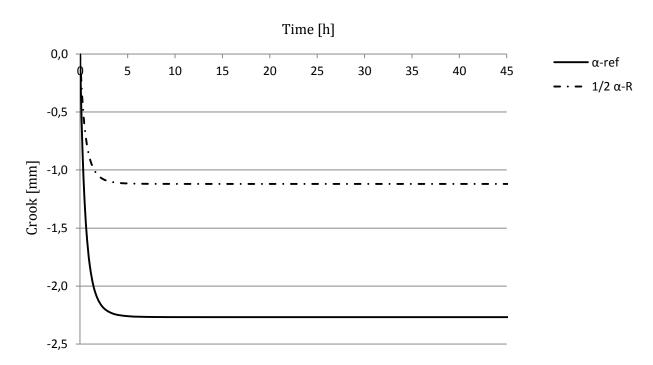


Figure 10.10: WB-3, influence of changing co-efficient of hygro-expansion on crook deformation, step change of 70% - 30% RH after 45 h.

# 11 Influence of gesso layer on shape stability

# **11.1 Introduction**

A panel painting is a painting made on a wooden panel. It is not well known, but a lot of famous paintings are actually panel paintings, such as The Mona Lisa by Leonardo Da Vinci, Assunta by Titian, Primavera by Botticelli and Samson and Delilah by Rubens. Artists had clear reasons to choose wood instead of canvas, see paragraph 11.2: *short history of panel paintings*. One of the main reasons was availability and stability. Before an artist could start his painting he had to prepare the panel with several layers of gesso (mixture of hide glue, gypsum or sometimes ground chalk and water) ossein (lime made from bones) or other materials. After several layers and considerable sanding, the panel surface became perfectly smooth if properly done.



Figure 11.1: Portrait of a boy from Fayum, National Museum of Warsaw, second half of 2<sup>nd</sup> century, painter is unknown.

The Portrait of a boy from Fayum was found in an Egyptian tomb, at the oasis of Al-Fayyu, see figure 11.1. It is part of a series of tablet paintings, which were made during a period from 1<sup>st</sup> to the 4<sup>th</sup> century. The tablets show the head and shoulders of the dead person. The tablets where placed on the coffins of wealthy persons, see [39].

This chapter discusses the influence of a gesso layer on the shape stability of wood boards. The numerical models of wood board -1 and wood board -2 from the previous chapter are expanded with a gesso layer. The influence of this gesso layer on shape stability will be discussed for the same drying conditions as previous in chapter 9 and 10 (70% RH to 30% RH).

#### 11.2 Short history of panel paintings [39]

In ancient Greece and Rome, wood was used as a support for encaustic paintings. Encaustic paintings are paintings made with colours that are dissolved in molten wax. Also, the first Byzantine icons, made in the 6<sup>th</sup> century, were painted on wood with the same encaustic technique. Orthodox churches, in the late 20<sup>th</sup> century, were still using the same technique to make their icons. Icons are religious pictures, mostly painted on wood, inextricably bound with the church. Until the Gothic period, painting on wood was not common in western and northern Europe. However, altar pieces made in this period where painted on wood. Painting on wood during the 13th and 14th centuries has proven to be practical. Most of the paintings from this period and the 15<sup>th</sup> century that have survived are panel paintings. They are less vulnerable to damage than canvas paintings. From the 15<sup>th</sup> century onwards, canvas became more popular as a supporting material for paint. During the  $16^{th}$  century altar pieces had less gilding (gold), so it was not necessary to use a solid wooden and perfectly flat panel any longer. Canvas is also relatively cheap, light and portable. These factors made canvas more popular. In the 16<sup>th</sup> century, in Venice Italy, big wall paintings where almost always painted on canvas. The small paintings where still made on wood support. Painters from Flanders and the Netherlands kept using the wooden panels for their landscapes and portraits. With the increase in international trade, new wood species came to Europe, (mahogany etc.) which encouraged the continued use of wood. In the 19th century, some artists, such as William Blake (1757-1827) and Samuel Palmer (1805-1881), revived the medieval and early Renaissance techniques of wood painting. This technique of painting did not suit other artists such as Impressionists and Post-Impressionists. 20<sup>th</sup> century artists were, due to industrialisation, able to use manufactured wood panels, such as block board, plywood and hardboard. When it comes to conservation, or stabilisation of panel paintings, it was opined that: as a treatment, it is better to do nothing (quote from Greenwich, England conference on Comparative Lining Techniques), the first conference discussing the treatment of panel paintings. The reasons for an artist to paint on wood are tempered by cost, practicality and availability. It is unknown why some famous painters switched from one medium to another, such as Titian's Assunta (panel) and Titian's Pesaro Altar pieces (canvas), Botticelli's Primavera (panel) and Botticelli's Birth of Venus (canvas) as well as Ruben's Samson and Delilah (panel) and Ruben's Garden of love (canvas). Why these painters used both in the same period will probably never be known. In the history of panel painting conservation, events occurred that are still not understood to this day. For example, hundreds of Renaissance panel paintings were sent to St. Petersburg, Russia and transferred to canvas. Every century and every decade ignites further thought. Compare the book written by Rembrandt titled: "Inleyding tot de Hooge Schoole der Schilderkunst", (An introduction to the higher school of painting), compared to the invention and use of X-ray scanning, optical laser technology and dendrochronology science, during the 20<sup>th</sup> and 21<sup>st</sup> centuries, a lot of changes have occurred. However, conservators and scientists are still not able to answer important questions. Questions such as: what happens to a panel painting, if it has been preserved for years in a constant condition and then exposed to slow or even rapid cycles of change in relative humidity? What happens if a panel painting is moved from a dry climate, where it has been for years, then suddenly moved to a climate controlled museum? Even the writers of the document from the Getty Institutions are unable to answer these questions, because no one has ever investigated this topic in a scientific way, see [39].

## 11.3 Mechanical behaviour of gesso

Gesso is a mixture of hide glue, gypsum or sometimes ground chalk and water. Different artist have different recipes for making gesso. Sometimes inert materials as zinc and clay are incorporated. The ratio of inert materials to hide glue has a great influence on the mechanical behaviour of gesso. This ratio of inert materials is called the PVC ratio (Pigment Volume Concentration). The higher the pigment volume ratio, the weaker, stiffer and less hygro-expansionally responsive the gesso becomes. Consequentially, more hide glue means stronger, more elastic and more hygro-expansional responsive the gesso becomes, see figure 11.2 [39].

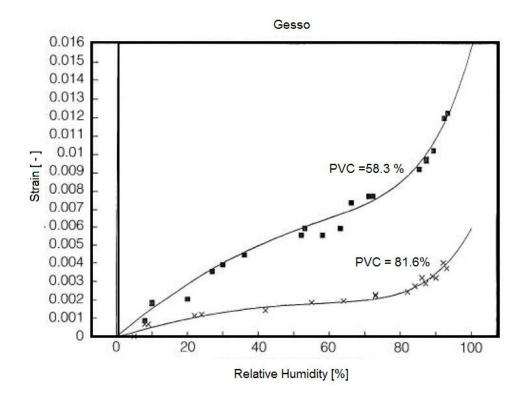


Figure 11.2: Influence of pigment volume ratio on strain (Getty Institute).

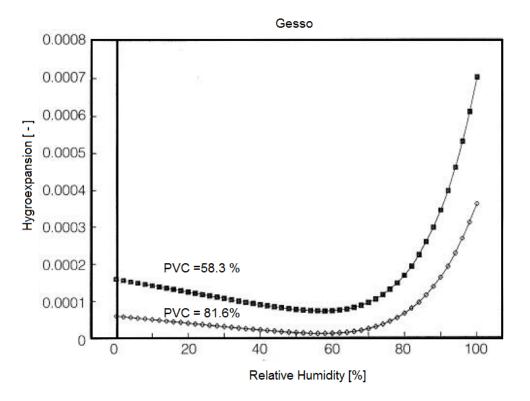


Figure 11.3: Influence of PVC on hygro-expansion (Getty Institute).

Figures 11.2 and 11.3, respectively, represent the behaviour of two different pigment volume ratio values on strain and hygro-expansional behaviour of gesso. Figure 11.2 shows that a pigment volume ratio of 58.3% has a maximum change of 1.5% over the entire relative humidity range. The higher pigment volume ratio mixture (81.3%) has a maximum change of 0.6% over the entire relative humidity range.

Overall, it can be concluded that the pigment volume ratio affects the mechanical behaviour of gesso quite significantly. The mechanical behaviour of gesso is also affected by other aspects, such as light and ageing. This is outside the scope of this master thesis. More information can be found in: Structural Conservation of Panel Paintings [39].

This chapter discusses the influence of the elastic modulus (E) and diffusivity of gesso (D) on shape stability of wood board -1 and wood board -2, see figure 11.4.

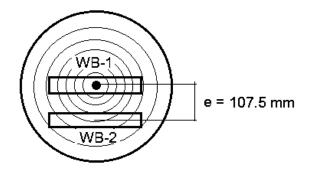


Figure 11.4: Wood board stem orientation.

## **11.4** Dimensional and mechanical properties

Figure 11.5 and table 11.1 respectively represent the dimension of the wood boards and the structural parameters. The type of wood used is pine. Material data of pine is directly adopted from chapter 10.

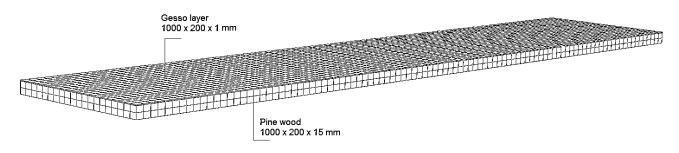


Figure 11.5: Dimensions WB-1 and WB-2.

	Spiral grain [degrees]	Conical angle [degrees]	Pith distance from centre [mm]	Dimensions wood board [mm]	Dimensions gesso layer [mm]
WB-1	-4,0°	-0,5°	0	1000 x 200 x 15	1000 x 200 x 1
WB-2	-0.0°	0°	-107.5	1000 x 200 x 15	1000 x 200 x 1

Mechanical properties of Gesso:

Density ( $ ho$ )	$= 1300 \ [kg \cdot m^{-3}]$	
Elasticity ( $E$ )	= 760 [ <i>MPa</i> ]	based on 58.3%
Poisson's ratio ( $V$ )	= 0.481	
Diffusivity ( $D$ )	= 104e-6 $[m^2 \cdot h^{-1}]$	
Yield strain ( $\mathcal{E}_y$ )	= 0.0025 [%]	

% PVC

Relative Humidity [%]	Hygro expansion
0	6.0e-05
10	5.0e-05
20	4.1e-05
30	3.1e-05
40	2.0e-05
50	1.0e-05
60	1.1e-05
70	3.2e-05
80	7.1e-05
90	1.6e-04
100	3.5e-0.4

The material properties of gesso are adopted from: The Getty institute and the Getty Museum, Structural Conservation of Panel Paintings "Proceeding of a symposium at the J.Paul Getty Museum" April 1995, Part 6: History and Conservation, Scientific Research see [39].

#### 11.5 Influence of thickness gesso layer on moisture transport

Figure 11.6 shows the effect of a changing gesso layer thickness on moisture transport through the wood board. Figure 11.6 represents the moisture content in the centre of the wood board. Figure 9.41 clearly shows that a thicker gesso layer slows down the process of moisture release. This is not surprising, because a thicker layer gives rise to a longer distance for the moisture to travel before reaching the surface.

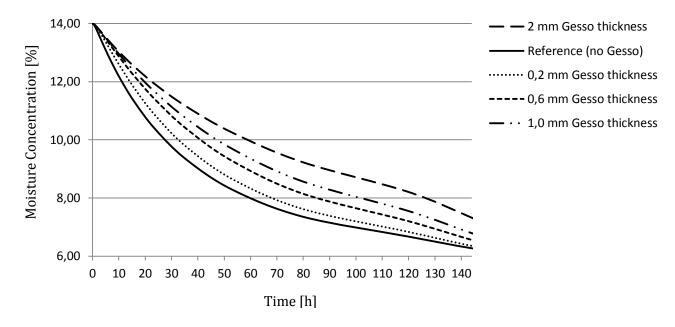


Figure 11.6: Influence of thickness of gesso layer on moisture transport.

## 11.6 Influence of changing elastic modulus of gesso on shape stability

#### 11.6.1 Wood board -1: Twist deformation

Figure 11.8 shows the influence of changing elastic moduli on twist deformation of a 1.0 mm thick gesso layer after a drying period of 24 hours. It looks like figure 11.8 shows first negative twisting (clockwise) and after 4 hours of drying positive twisting (counter clockwise), see figure 11.7. This changing of twist direction is most unusual. Consequentially figure 11.8 showing pure twist deformation, is most unlikely. Note that the lines of figure 11.8 only represent the angular rotation between the pith and the wood board edge as shown by figure 11.7. This means that negative rotation (clockwise) does not necessarily mean twist deformation; it could also represent cup deformation. Proceeding research has shown that this is indeed the case, see figure 11.8.

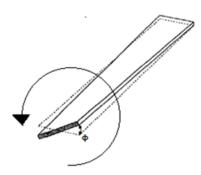


Figure 11.7: Counter clockwise twist

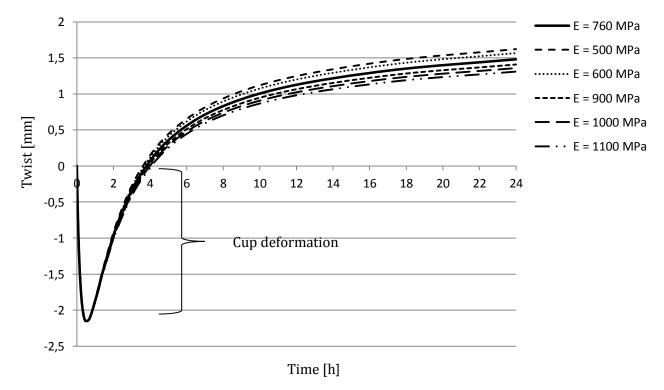


Figure 11.8: WB-1, influence of elasticity gesso on twist deformation.

Figure 11.8 shows between 0 and 2 hours increasing "cup" deformation because, the gesso layers slow down the outflow of moisture. Between 2 and 4 hours, this cupping effect decreases and after 4 hours "twist" deformation begins to develop.

Figure 11.8 clearly shows that an increasing stiffness of the gesso layer results in a decrease of twist deformation. The solid line represents the reference elastic moduli of the gesso layer, which is 760 MPa. The reference layer shows a twist deformation of 2.6° after a drying period of 6 days. The same wood board, without the gesso layer, shows a twist deformation of 3.4° after a drying period of 6 days. This means 30% constraint of twist deformation due to 1.0 mm gesso layer after a drying period of 6 days.

#### 11.6.2 Wood board -1: Bow deformation

Figure 11.9 shows the development of bow deformation. Notice that wood board -1 did not show bow deformation without the gesso layer, see chapter 9. Figure 11.9 shows strong, short time behaviour. The first 2 hours it shows a maximum bow deformation of 35 mm. After these first 2 hours it slowly reaches its equilibrium state which is much smaller, between 18 mm and 10 mm of bow deformation.

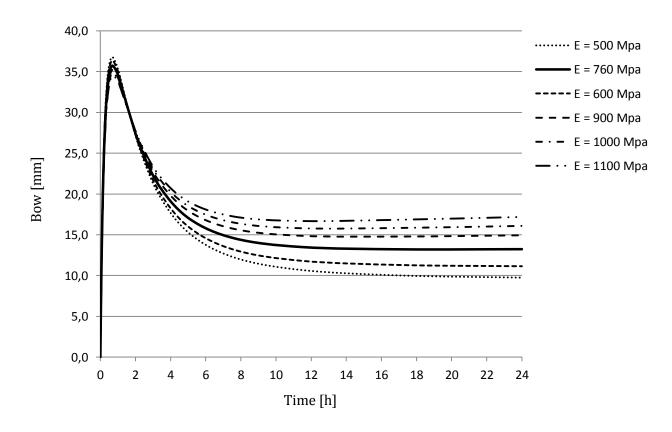


Figure 11.9: WB-2, influence of elasticity gesso on bow deformation.

#### 11.6.3 Wood board -2: Cup deformation

Figure 11.10 represents the influence of the elastic moduli of gesso on cup deformation. The reference cup deformation is represented by the 760 MPa solid line, which shows a final cup deformation of 2.9 mm after a drying period of 1 day and 0.9 mm after a drying period of 6 days. Without a gesso layer, the same wood board shows an average cup deformation of 0.5 mm after a drying period of 6 days. Figure 1.10 shows a short time maximum cup deformation of approximately 3.5 mm and progressive recovery until equilibrium has been reached. Figure 11.10 show that a stiffer gesso layer results in a greater cup deformation

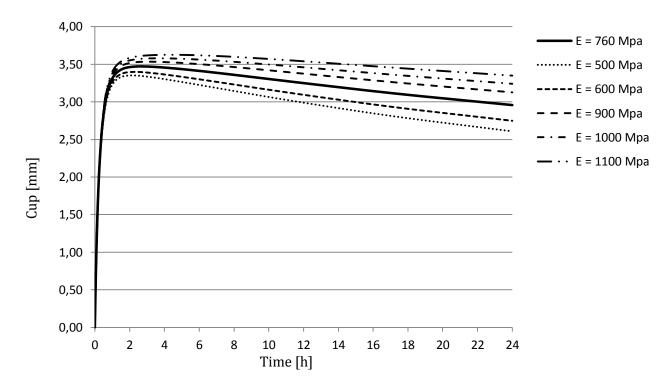


Figure 11.10: WB-2, influence of elasticity gesso on cup deformation.

#### 11.6.4 Wood board -2: Bow deformation

Figure 11.11 shows the effect of changing the elastic modulus of the gesso layer on bow deformation of WB-2. Figure 11.11 clearly shows that changing the elastic modulus of the gesso layer does not influence the short time maximum behaviour and final equilibrium behaviour very much. The maximum short time bow deformation lies around the 34 mm and the final equilibrium bow deformation lies around the 25 mm after a drying period of 24 hours.

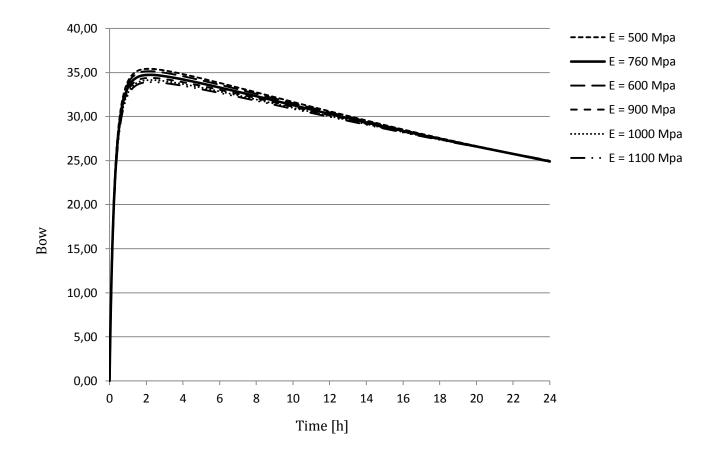


Figure 11.11: WB-2, influence of elasticity gesso on bow deformation.

#### **11.6.5 Conclusion**

Applying a 1.0 mm thick gesso layer on a sawn wood board seems to have a great influence on the shape stability. As a consequence of a gesso layer, unequal moisture transfer between the top and bottom surface develops.

In case of wood board -1, a stiffer gesso layer seems to reduce the twist. Applying a gesso layer on wood board -1 results in cup and twist deformation. Because the gesso layer slows down the moisture transport in one direction under rapid drying conditions, the wood board develops a tendency to cup. After 2 hours and continuing drying, this short time cup behaviour slowly disappears and after 4 hours wood board -1 slowly starts to develop twist deformation. Without a gesso layer wood board -1 would not show any cup deformation at all, only twist deformation. The reference layer shows a twist deformation of 2.6° after a drying period of 6 days. The same wood board, without the gesso layer, shows a twist deformation of 3.4° after a drying period of 6 days. This means 30% constraint of twist deformation due to 1.0 mm gesso layer after a drying period of 6 days.

Increasing the elastic moduli resulted in a greater bow deformation in case of wood board -1. Figure 11.9 shows strong, short time behaviour. In the first 2 hours it shows a maximum bow deformation of 35 mm. After these first 2 hours it slowly reaches its equilibrium state, which is much smaller, between 18 mm and 10 mm of bow deformation.

The reason for this strong short time bow deformation (between t = 0 and t = 2 h.) of figure 11.9 can be found in the diffusion properties of pine wood. Because of the longitudinal direction of the cellular structure, the diffusivity in this direction, compared to the radial and tangential direction, is approximately 10 times stronger. If one takes a good look at figure 9.3, one will notice that the pith is slightly drawn inside due to this relatively strong longitudinal diffusivity. In the case of figures 9.3 there is no gesso layer applied, consequentially the pith's location is in the centre of the wood board. In case of figure 11.9, due to the gesso layer, the pith is located slightly out of centre. Because the wood board is exposed to a strong drying situation from 70% to 30% relative humidity and because of the relatively strong longitudinal diffusivity, a bending moment develops. This explains the strong, short time bow deformation. With progressive drying of the wood board, this deformation slowly recovers until it reaches its final equilibrium state.

Figure 11.10 show that a stiffer gesso layer results in a greater cup deformation. Because of the unequal moisture transfer between top and bottom as a result of the gesso, a relatively strong short time-cup deformation develops of ~ 3.5 mm after a drying period of 2 hours. After 2 hours, with continuous drying, this strong cup effect decreases to 2.9 mm after 24 hours and 0.9 mm after 6 days of drying. Without a gesso layer, the same wood board shows an average cup deformation of 0.5 mm after a drying period of 6 days. These two values clearly approach each other.

Figure 11.11 shows that changing the elastic modulus of the gesso layer does not influence the short time maximum behaviour and final equilibrium behaviour very much. The maximum short time bow deformation lies around 34 mm and the final equilibrium bow deformation lies around 25 mm. Note that the maximum bow deformation of wood board -1 and wood board -2 are the same (35 mm), regardless of the fact that both wood boards have completely different growth

ring orientations. It seems that the growth ring orientation has no effect on the short time bow deformation. This difference in growth ring orientation between wood board -1 and wood board -2 becomes clear when looking at the recovery phase. Wood board -1 without a gesso layer does not bow at all shows a strong ability to recover, see figure 11.9. Wood board -2 which does show bow deformation without a gesso layer shows significant less recovery. This effect is in agreement with the expectations.

## 11.7 Influence of changing the diffusivity of gesso on shape stability

#### 11.7.1 Wood board -1: Twist deformation

Figure 11.12 shows the effect of a changing diffusivity of the gesso layer on twist deformation of wood board -1. Figure 11.12 shows that a high diffusivity results in a faster twist development and that a lower diffusivity results in a slower twist development, all with respect to a drying period of 24 hours.

Note that the lines of figure 11.12 only represent the angular rotation between pith and wood board edge as shown by figure 11.7. This means that negative rotation does not necessarily mean twist deformation; it could also represent cup deformation. Further research has shown that this is indeed the case; see also paragraph 11.6.1, figure 11.8 and figure 11.12 for more information. Because the gesso layer slows down the moisture transport in one direction under rapid drying conditions, the wood board develops a tendency to cup. Depending on the diffusion coefficient, between the 30 min. and 2 hours as a result of continuing drying this short time cup behaviour slowly disappears and twist deformation starts to develop.

It has been calculated that the average twist deformation after 6 days is at approximately2.5°. This is in agreement with the result as presented in paragraph 11.6.1 which calculated a twist deformation of 2.6°.

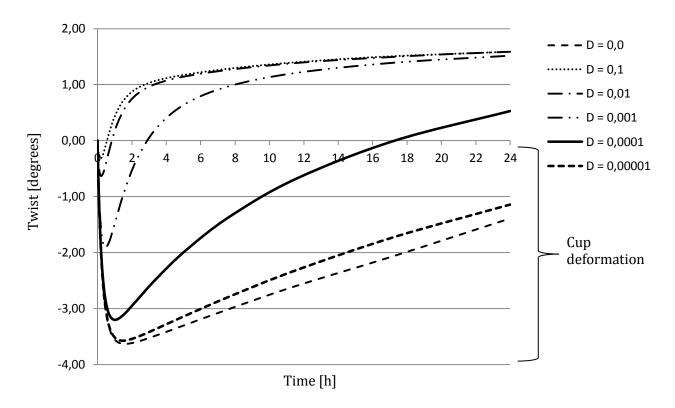


Figure 11.12: WB-1, influence of diffusivity gesso on twist deformation.

#### 11.7.2 Wood board -2: Cup deformation

Figure 11.13 shows the influence of changing diffusivity of gesso on cup deformation. Figure 11.13 shows that increasing the diffusivity results in smaller maximum short time behaviour and decreasing the diffusivity results in increasing the maximum short time behaviour. Comparing the cup behaviour of wood board -2 with and without a gesso layer (see 10.3.2), applying a gesso layer results in a significant greater final cup deformation. Figure 11.13 shows that decreasing the diffusivity results in slow recovery of this short time behaviour. Increasing the diffusion coefficient consequentially holds faster moisture transport through the gesso layer, resulting in smaller cup deformation. Comparing these results with the reference board from paragraph 10.3, it can be concluded that applying a gesso layer significantly influences the final cup deformation.

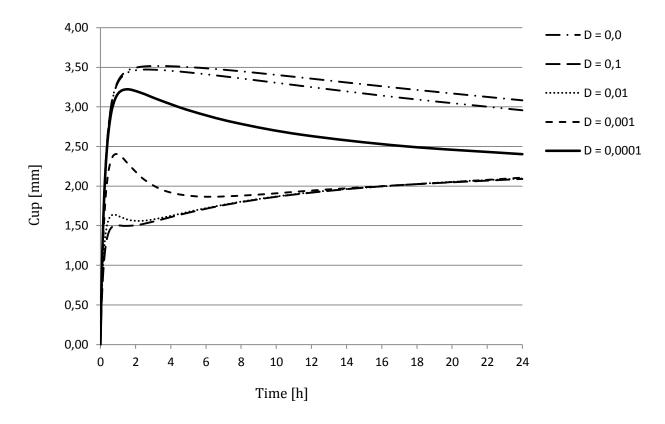


Figure 11.13: WB-2, influence of diffusivity gesso on cup deformation.

#### 11.7.3 Wood board -2: Bow deformation

Figure 11.14 shows the results of changing diffusivity on bow deformation. Figure 11.14 shows that decreasing the diffusion coefficient results in an increment of short time maximum bow deformation. Figure 11.14 also shows that a decrement of diffusivity results in a slower recovery of this short time deformation. Comparing these results with the reference board from paragraph 10.4, both calculations show a final bow deformation of ~ 5.0 mm after a drying period of 6 days.

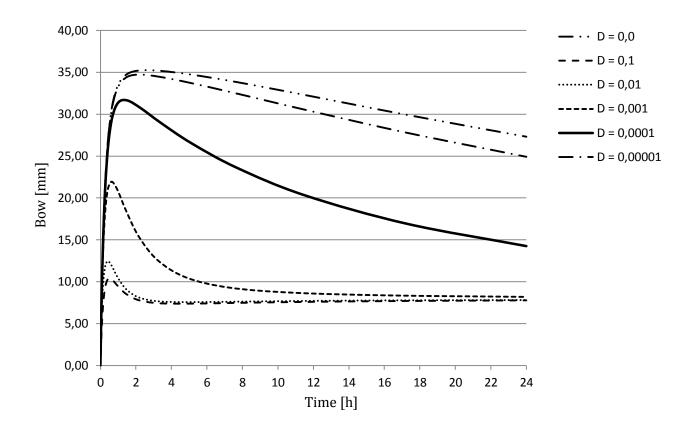


Figure 11.14: WB-2, influence of diffusivity gesso on bow deformation.

#### **11.7.4 Conclusion**

Changing the diffusivity of the gesso layer of wood board -1 shows that a high diffusivity results in a faster twist development and that a lower diffusivity results in a slower twist development. Because the gesso layer slows down the moisture transport in one direction under rapid drying conditions, the wood board develops a tendency to cup. Depending on the diffusion coefficient, this is between 30 min. and 2 hours. As a result of continuing drying this short time cup behaviour slowly disappears and twist deformation starts to develop, for more information see paragraph 11.6.1, figure 11.8 and figure 11.12. It has been calculated that the average twist deformation after 6 days is approximately 2.5°. This is in agreement with paragraph 11.6.1 which calculated a twist deformation of 2.6°.

Comparing the cup behaviour of wood board -2 with and without a gesso layer (see 10.3.2), applying a gesso layer results in a significantly greater final cup deformation compared to the reference wood board from paragraph 10.3.

Decreasing the diffusion coefficient results in an increment of short time maximum bow deformation and in a slower recovery of this short time deformation. Comparing these results with the reference board from paragraph 10.4, both calculations show a final bow deformation of  $\sim$  5.0 mm after a drying period of 6 days.

The effect of changing the diffusion coefficient shows a significantly greater effect than changing the elastic moduli of the gesso layer on the shape stability. A relatively small diffusivity of the gesso layer always resulted in stronger short time behaviour and relatively slow recovery of this process. Although changing the diffusion coefficient does affect the shape stability more than changing the elastic moduli, it does not affect the long-time behaviour as much as changing the elastic modulus does. Applying a gesso layer and changing the diffusivity did not influence the final twist and bow deformation (for  $t_{\infty}$ ) when compared to the outcome of the wood boards without a gesso layer. In case of cup deformation this is different; applying a gesso layer had a great influence on the final cup deformation (for  $t_{\infty}$ ) when compared to the outcome of the wood board without a gesso layer.

## 12 Concluding remarks

## 12.1 General

Compared to other structural materials, wood is quite complex. This complex behaviour is the result of wood being a heterogeneous, hygroscopic, cellular and anisotropic material. Without numerical simulation, it is almost impossible to predict the deformation, due to the complex behaviour of wood exposed to moisture. A proper constitutive model, takes account of the directional dependency of the material, the behaviour being strongly influenced by changing moisture content, wood properties, orientation of the fibres (spiral grain orientation) and all non-linear / non-Fickian processes necessary to predict the behaviour.

For accurate time dependent predictions, such a numerical model should include a proper total strain model, taking account for the moisture content, time and temperature. This constitutive model should also take account of the structural orientation of wood such as growth ring orientation, spiral grain direction and conical angle.

It is assumed that a local cylindrical coordinate system is capable to simulate the orthotropic behaviour as a result of the growth ring orientation. This seems to be doubtful because of the following reasons: By default, inserting a coordinate system (Cartesian or cylindrical) assumes that the directional properties are perpendicular to each other. Considering the spiral orientation of the fibres, representing the longitudinal direction, this would be impossible with respect to the radial and tangential direction. It also has been experientially observed that the longitudinal moduli of elasticity, the longitudinal moisture expansion coefficient and elastic strain parameter vary from pith to bark.

Within ABAQUS finite element software, it is shown that due to the analogy between Fourier's law of heat conduction and Fick's law of mass diffusion, it is possible to solve a moisture movement problem with a heat transfer analysis. Careful implementation, proper material data and using an appropriate driving potential deserves full attention. Wood is most often only part of a bigger construction, consisting of many other layers and different materials as in panel paintings. Different materials come with different material properties. Because of this different behaviour, it is wise to use a driving potential, which is consistent for different materials. Water vapour pressure [*P*] and water vapour content [*w*] are such driving potentials. Unfortunately, moisture transport below fibre saturation point cannot be regarded as being a pure Fickian process. In case of short time moisture movement simulations, one should use a non-Fickian or multi-Fickian model.

A wooden cylinder exposed to a change in relative humidity from 70% to 30%, shows that moisture distribution is strongly non-linear. The first few millimetres from surface level respond very quickly to changing relative humidity. As a result, cracking of the surface level would be almost instantaneous. Practical research and experience has proven that this is not the case.

As a result, a non-Fickian or multi-Fickian model has been developed (described in literature but not implemented, this is outside the scope of this master thesis), describing the process of moisture distribution through wood more realistically. This non-Fickian or multi-Fickian model predicts a much less steeper gradient at surface level, corresponding to practical experience.

When sawn timber is exposed to moisture variation it can cup, twist, crook or bow. The stability of sawn timber depends upon the original orientation within the stem. It is essential to have detailed information about the position of the sawn timber within the tree stem and the orientation of the fibres. It has been proven that cupping is the result of different radial and tangential properties. Twisting is mainly the result of the spiral grain orientation. Crook and bow deformation are both the result of an equal distribution of longitudinal stiffness.

Some material parameters greatly influence the type of deformation. The influence of a parameter can differ strongly with respect to the same type of deformation, but between different structural orientations of wood boards. Changing the longitudinal elastic moduli, for instance, has respective other consequences for a wood board cut from the centre of a tree, compared to a wood board sawn quartered. It can be concluded that the influence of a material parameter does not only depend on the quantity, but also on the capability of the wood board to develop this material parameter.

Applying a 1.0 mm gesso layer significantly influences the shape stability. Moisture transport through a gesso layer depends upon the diffusivity and the thickness of the gesso layer. As a result of the thickness, diffusivity and elasticity of such a gesso layer, completely new combinations of deformations occur, compared to the same wood board without a gesso layer. Depending on the diffusivity of the gesso layer it can develop strong short time behaviour with maximum strain development. As a result of progressive drying, this short time behaviour generally disappears and the system reaches for its equilibrium state. Step changes of this scale, 70% to 30% relative humidity, always result in relatively large strain development exceeding the elastic strain of wood and gesso, sometimes multiple times.

## **12.2 Conclusions**

1) Is it possible to perform a mass diffusion analysis within a multi-physical environment using the toolbox for a heat transfer analysis with ABAQUS CAE standard?

Modelling moisture distribution, using the transient heat conduction analysis procedure from ABAQUS was successful. Also the coupling of the heat conduction analysis with the static analysis (multi-physical) has been successful. Comparing the calculated moisture distribution and stress field by ABAQUS and the result from Jakiela et al [37] and Schellen et al [36] are in agreement.

1) Is it possible to model the structural orientation such as the conical angle, growth ring and spiral grain and how do these structural parameters influence the shape stability of sawn wood?

Modelling a conical angle has been successful. To model the concentric growth, generally a cylindrical coordinate system is assumed to be capable of simulating the orthotropic behaviour due to the growth ring orientation. This is concluded to be doubtful, see paragraph 4.2. The ease to model a spiral grain orientation depends strongly upon the dimensional properties of the model. Applying a spiral grain orientation to a threedimensional wooden cylinder taken from the heart is much more complicated than modelling sawn timber, see paragraph 4.3.

It has been numerically proven that: Twist deformation under drying conditions is mainly the result of the spiral grain angle which is the angle between the pith and the fibre direction. With increasing spiral grain angle, twist deformation increases. When the spiral grain angle is set to zero, no twist deformation will develop. Cup deformation is caused by the difference between radial and tangential shrinkage. Crook deformation depends strongly on the distance between the pith and the centre of the wood board. A wood board, originally taken close to the pith, will show a stronger crook deformation than one taken further away from the pith. It becomes doubtful whether bowing is the result of material properties or a consequence of the local cylindrical coordinate system. In the latter case it is doubtful if this bow effect would take place in a real world situation. See paragraph 9.5 for more detailed conclusions.

2) What is the influence of changing mechanical parameters such as the modulus of elasticity, modulus of shear and hygro-expansional coefficients on shape stability of sawn wood?

Twist: The most significant influence on the twist deformation is obtained for the longitudinal elastic modulus, radial elastic modulus and the tangential hygro-expansion (increase of twist deformation). The tangential elastic modulus and the G-LT shear modulus have the least influence on twist deformation. More detailed information about the influence of reducing material properties on twist deformation: see paragraph 10.2.4.

Cup: The most significant influence on the cup deformation is obtained for the radial hygro-expansion (increase of cup deformation) and the tangential hygro-expansion (decrease of cup deformation).Reduction of the radial elastic modulus does not influence the cup deformation. The influence of G-LR shear modulus, G-TR shear modulus and the longitudinal hygro-expansion coefficient can be neglected; the influence of G-LT is significantly larger compared to G-LR and G-TR. More detailed information about the influence of reducing material properties on cup deformation: see paragraph 10.3.4.

Bow: The most significant influence on the bow deformation is obtained for the longitudinal elastic modulus, tangential hygro-expansion (decrease of bow deformation) and the radial hygro-expansion coefficient (increase of bow deformation). Reducing the tangential and radial elastic modulus resulted in a relative small increase of bow deformation. Reducing the G-TR and the longitudinal hygro-expansion does not influence bow deformation and reducing G-LT has almost twice as much influence as reducing G-LR. More detailed information about the influence of reducing material properties on bow deformation: see paragraph 10.4.4.

Crook: The only mechanical property which significantly influences the crook deformation seems to be the radial coefficient of hygro-expansion. More detailed information about the influence of reducing material properties on crook deformation: see paragraph 10.5.1.

3) What is the influence of a gesso layer on the shape stability of sawn wood?

It has been concluded that a thicker gesso layer slows down the process of moisture release. This does not surprise, because a thicker layer equals a longer distance for the moisture to travel before reaching the surface.

As a consequence of a gesso layer, unequal moisture transfer between the top and bottom surface develops resulting in different short time (30 min up to 2 hours) behaviour when compared with the models without a gesso layer. Generally this short time behaviour contains a strong short time relatively strong deformation development. Applying a gesso layer does not influence the final deformation (for  $t_{\infty}$ ) when compared to the outcome of the wood boards without a gesso layer. Only in case of cup deformation this is different; applying a gesso layer had a great influence on the final cup deformation (for  $t_{\infty}$ ) when compared to the outcome of the wood board without a gesso layer had a great influence on the final cup deformation (for  $t_{\infty}$ ) when compared to the outcome of the wood board without a gesso layer.

In some cases, applying a gesso layer, can lead to the development of new types of deformation when compared with the reference model without a gesso layer. For example wood board -1 did not show cup deformation before applying the gesso layer, it only showed twist deformation.

The effect of changing the diffusion coefficient shows a significantly greater effect than changing the elastic moduli of the gesso layer on the shape stability. A relatively small diffusivity of the gesso layer always resulted in stronger short time behaviour and relatively slow recovery of this process.

## 12.3 Relevance

One of the possible great advantages of using ABAQUS CAE (Complete ABAQUS Environment) is the ease of modelling. Within the CAE, it is possible to perform a heat conduction analysis and apply the outcome as a predefined field to a static stress / strain analysis. This is a so called sequentially coupled thermal-stress analysis. The multi-physical environment of ABAQUS CAE makes it possible to perform complicated calculations combining mechanical, heat and moisture loads, modelling complicated structures like panel paintings.

These results provide more insight in the mechanical behaviour of sawn wood and can be used to develop a more permanent solution for the conservation problem. Detailed information about the influence of different structural orientations can lead to a more precise and direct method of solving the deformation problem for different types of deformation. These results can also contribute to the development of a constitutive model able to predict deformation due to changing environmental conditions more precisely.

Coating layers like gesso seems to have great influence on the deformation behaviour of sawn wood when exposed to changing environmental conditions. Coating layers like gesso can lead to unexpected types of deformation. This knowledge can be used to develop a more permanent solution of conservation for individual panel paintings with different coatings. Because of the impact of applied coatings on the deformation of sawn wood further research is desirable

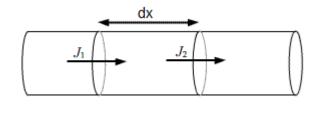
## BIBLIOGRAPHY

- [1] Martenson A.: Mechanical behaviour of wood exposed to humidity variations. Lund Institute of Technology, department of structural engineering, Lund, Sweden (1992).
- [2] Kollmann F., Cote W.: Principles of Wood science and Technology: 1 Solid Wood. Institute fur Holzforschung und Holztechnik, Munchen, Germany / College of Forestry, Syracuse, New York (1968).
- [3] Toratti T.: Creep of timber beams in a variable environment. Helsinki University of Technology, Report 31 (1992).
- [4] Svensson S.:. Internal Stress in Wood Caused by Climate Variations, Lund Institute of Technology (1997).
- [5] Mirianon F. Fortino S. and Toratti T.: A method to model wood by using ABAQUS finite element software, VTT (2008).
- [6] Ormarsson s. Dahlblom O. Petersson H.: A numerical study of the shape stability of sawn timber subjected to moisture variations, Lund Institute of Technology (1997).
- [7] Blumer S.: Moisture Induced Stresses and Deformations in Parquet Floors An experimental and Numerical Study, Lund University, Division of Structural mechanics (diploma thesis), Lund, Sweden (2006).
- [8] Mackenzie-Helnwein P, Hanhijärvi A.: Computational analysis of quality reduction during drying of lumber due to irrecoverable deformation, Journal of Engineering Mechanics 1006 1016 (2003).
- [9] Hofmeijer H.: Linear Finite Element Method (FEM), Technical University of Eindhoven, Department of Structural Design and Construction Technology (Lecture Notes), Eindhoven, Netherlands (2000).
- [10] Madison S.: Structure of Wood, Wisconsin, United States Department of Agriculture Forest Service, USA (1980).
- [11] Wiselius S.: Hout vademecum, 7e druk, Stichting Centrum Hout SCH, Almere, Netherlands (1994).
- [12] Saupe S.: Plant physiology, College of St. Benedict / St. Jon's University;Biology Department, Minnesota, USA (2011).
- [13] Madison S.: Shrinking and swelling of wood in use, United States Department of Agriculture Forest Service, Wisconsin, USA (1957).
- [14] Eckelman C.:The shrinking and swelling of wood and its effect on furniture, University Cooperative Extension Service West Lafayette, West Lafayette, USA (2000).
- [15] Astrup T, Hansen K, Hoffmeyer P and Damkilde L.: Moisture transport in wood an experimental and numerical study. Department of civil engineering, Technical University of Denmark, Copenhagen, Denmark.
- [16] Kozlowski R, Bratasz L, Lasyk L and Lukomski M.: Allowable microclimatic variations for painted wood: direct tracing of damage development, The research was supported by grant PL0086 from Iceland, Liechtenstein and Norway through the European Economy Area Financial Mechanism (2006).
- [17] Bratasz L, Koslowski R, Kozlowska A and Rachwal B.: Sorption of moisture and dimensional change of wood species used in historic objects, Institute of Catalysis and Surface Chemistry, Polish Academy of Sciences, Krakow, Poland (2006).
- [18] Blumer S.: Moisture Induced Stresses and Deformations in Parquet Floors- An experimental and Numerical Study, Lund University, Division of Structural mechanics (diploma thesis), Lund, Sweden (2006).
- [19] Friedrich F, Kollmann P, Côté W, Kuenzi E and Stamm A.: Principles of Wood Science and Technology: Solid Wood Springer-Verlag, Berlin, Heidelberg, New York (1986).
- [20] Wit, de M.: Heat air and Moisture in Building Envelopes, University of Technology Eindhoven, Eindhoven, Netherlands (2009).
- [21] Wikipedia: http://en.wikipedia.org/wiki/Diffusion

- [22] Wikipedia: http://en.wikipedia.org/wiki/Molecular\_diffusion
- [23] Kaseb S, El-Hariry G.: Basic of heat transfer: Course Part A: Introduction to Electronics Cooling, Mechanical Power Engineering Department, Faculty of Engineering Cairo University, Cairo, Egypt (2006).
- [24] Jiji Latif M.: Heat Conduction, Third Edition, Department of Mechanical Engineering, City University of New York, New York, USA (2009).
- [25] Theodore L.: Heat Transfer Applications for the Practicing Engineer, John Wiley & Sons, Hobooken, NU (2009).
- [26] ABAQUS documentation: ABAQUS Analysis User's Manual and ABAQUS Theory Manual
- [27] Time B.: Hygroscopic moisture transport in wood, A thesis presented for the degree of Dr.ir. Norwegian University of Science and Technology, Department of Building and Construction Engineering, Trondheim, Norway (1998).
- [28] http://www.appstate.edu/~neufeldhs/pltphys/waterpotential.htm
- [29] Frandsen H., Damkilde L., Svensson S.: A revised multi-Fickian moisture transport model to describe non-Fickian effects in wood, Aalborg University, Department of Civil Engineering, Aalborg, Denmark. Technical University of Denmark, Lyngby, Denmark (2007).
- [30] Wadso L.: Describing non-Fickian water-vapour sorption in wood, Lund University,Department of Building Material, Lund, Sweden (1994).
- [31] Krabbenhoft K., Damkilde L.: A model for non-Fickian moisture transfer in wood, Technical University of Denmark, Department of Civil Engineering, Lungby, Denmark. Aalborg University Esbjerg, Institute of Chemistry and applied Engineering Science, Esbjerg, Denmark (2004).
- [32] Robert H.: XVIIIth Convention of the Julius-Hirschberg-Gesellschaft,Oktober 14th–16th 2004, Innsbruck, Germany.
- [33] Cunningham M.: A model to explain anomalous moisture sorption in wood under step function driving forces, Wood and fibre science 27(3) (1996).
- [34] Salin J.: Mass transfer from wooden surfaces and internal moisture non-equilibrium, Drying Technology 14(10) (1996).
- [35] Absetz I., Koponen S.: Fundamental diffusion behaviour of wood, In Hoffmeyer P. (editor), International Conference on Wood Water Relations, Copenhagen, Denmark (1997).
- [36] Schellen H., van Schijndel J.: Numerical modeling of moisture related mechanical stress in wooden cylindrical objects using COMSOL: a comparative benchmark, Eindhoven University of Technology, Department of Building and Architecture, Eindhoven, Netherlands (2011).
- [37] Jakiela S., Bratasz L., Kozlowski R.: Numerical modeling of moisture movement and related stress field in lime wood subjected to changing climate conditions, Wood Science Technology (2008).
- [38] Mirianon F., Fortino S and Toratti T.: A Method to model wood by using ABAQUS finite element software, part 1: Constitutive model and computational details, VTT publications 687, Finland (2008).
- [39] The Structural Conservation of Panel Paintings, proceedings of a symposium at the J.Paul Getty Museum april 1995, The Getty Conservation Institute, Los Angeles, USA, 1998.

## Appendix A: Derivation of Fick's second law

Fick's second law of diffusion describes how diffusive concentration changes in time to an unsteady state. Fick's second law can be derived from Fick's first law and law of mass conservation (law of mass conservation: the mass in an isolated system remains constant over time):



$$C = \frac{m}{V}$$

$$V = A \cdot dx$$

$$C = Concentration$$

$$V = Volume$$

$$M = Mass$$

$$A = Area$$

$$dx = Distance$$

$$\frac{\partial c}{\partial t} = The changing concentration in time$$

The changing concentration in time equals the difference between the incoming mass and the outflowing mass (law of mass conservation).

So,

 $\partial t$ 

$$\frac{\partial c}{\partial t} = \frac{\frac{m_{in}}{t} - \frac{m_{out}}{t}}{V} = \frac{\frac{\Delta m}{t}}{V}$$
(A-2)

$$\frac{\partial c}{\partial t} = \frac{\frac{m_{in}}{t} - \frac{m_{out}}{t}}{A \cdot dx} = \frac{\frac{m_{in}}{tA} - \frac{m_{out}}{tA}}{dx}$$
(A-3)

$$J = flux = \frac{m_{in}}{tA} \tag{A-4}$$

$$\frac{\partial c}{\partial t} = \frac{J_{in} - J_{out}}{dx} = \frac{\partial(J)}{\partial x}$$
(A-5)

118

(A-1)

From Fick's first law:

$$J = -D\frac{\partial C}{\partial x} \tag{A-6}$$

So,

$$\frac{\partial c}{\partial t} = \frac{\partial \left(-D\frac{\partial C}{\partial x}\right)}{\partial x} = \frac{\partial}{\partial x} \left(-D\frac{\partial C}{\partial x}\right) = D\frac{\partial^2 C}{\partial x^2}$$
(A-7)

This is Fick's second law:

$$\frac{\partial c}{\partial t} = D \frac{\partial^2 C}{\partial x^2} \tag{A-8}$$

# Appendix B: Solution to Newton's cooling equation

$$\frac{dT}{dt} = -\alpha \left( T - T_A \right) \tag{B-1}$$

Change of variables:  $y = T_s - T_A$ 

$$\frac{dy}{dt} = -\alpha y \quad \Rightarrow \quad \frac{dy}{y} = -\alpha dt$$
 (B-2)

$$\ln(y) = -\alpha t + C \tag{B-3}$$

$$y = \exp(-\alpha t + C) \rightarrow y = \exp(-\alpha t)\exp(C)$$
 (B-4)

 $\exp(C)$  is a constant

$$T - T_A = y_0 \exp(-\alpha \cdot t) \tag{B-5}$$

$$T = T_A + (T_0 - T_A)\exp(-\alpha t)$$
(B-6)

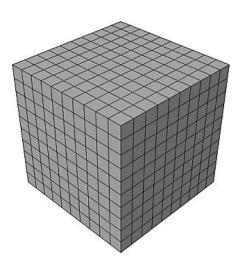
## Appendix C: Example 1

# Example 1: Transient one dimensional heat conduction

Input:

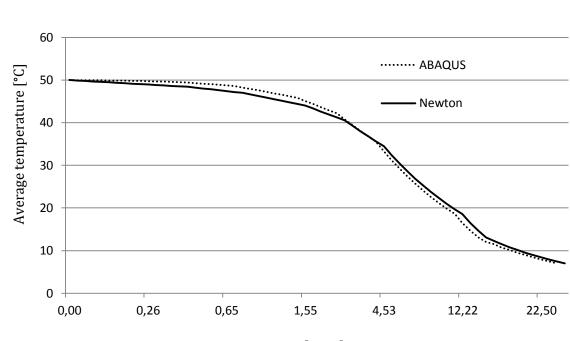
Initial temperature  $(T_0)$ = 50 °CFinal temperature (T)= 1 °CMaterial density  $(\rho)$ = 997, 3  $[kg \cdot m^3]$ water)specific heat capacity  $(c_p)$ = 4.1813  $[J \cdot kg^{-1}K^{-1}]$ Thermal conductivity (k)= 0.6  $[W \cdot m^{-2}K^{-1}]$ 

 $T = T_A + (T_0 - T_A) \exp(-\alpha \cdot t)$  Newton's cooling law



(C-1)

A volume of water with an initial temperature of 50 °C cools down, conduction takes place along all six planes. Firstly, calculate the conduction process with help of Newton's law for cooling and compare the results with a finite element simulation with help of ABAQUS.



Time [min.]

## Appendix D: Example 2

#### Example 2: A temperature step at the surface of a semi-infinite thick slab

A semi-infinite thick slab is suddenly heated from  $T_0$  up to Ts. The diffusive flux of heat can be calculated in time and in space for this specific one-dimensional case.

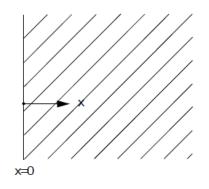


Figure 5.5: Semi-infinite thick slab (M. de Wit).

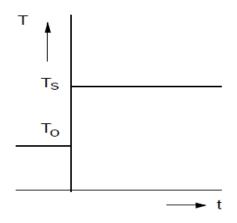


Figure 5.6: A temperature step at the surface of a semi-infinite thick slab as a function of time t (M. de Wit).

The initial boundary conditions are:

$$\begin{array}{ll} t < 0 & T(x,t) = T_0 \\ x = 0 & and \quad t \ge 0 & T(0,t) = T_0 + \Delta T_s \\ x \rightarrow \infty & and \quad t \ge 0 & T(\infty,t) = T_0 \end{array}$$

Input:

Initial temperature  $(T_0)$ = 10 °CFinal temperature (Ts)= 30 °CThermal diffusivity  $(\alpha)$ = 1

$$T(x,t) = T_0 + \Delta T_s erfc\left(\frac{x}{2\sqrt{at}}\right)$$
 (See M. de Wit [20] for more information) (D-1)

T(x,t)	= the temperature in x-direction
$T_0$	= the initial temperature
$T_s$	= the increase or suddenly decrease in temperature
$\Delta T_s$	$=T_s - T_0$
x	= the distance in x-direction into the slab
t	= time
a	= thermal diffusivity

Where erfc(Z) is the complementary error function (Gauss error integral):

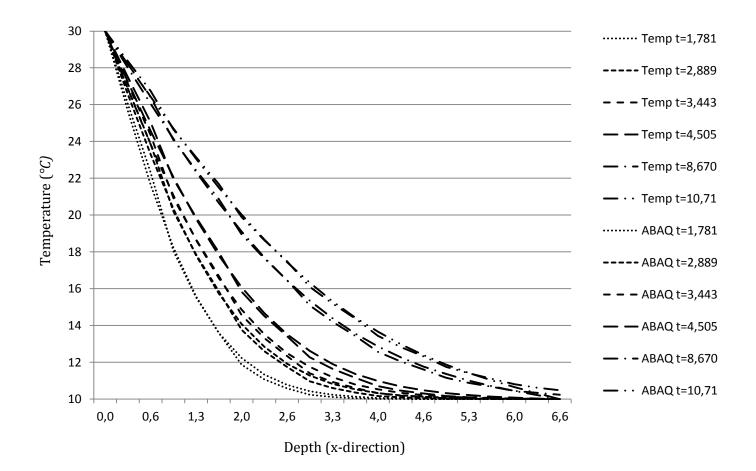
$$erfc(Z) = \frac{2}{\sqrt{\pi}} \int_{Z}^{\infty} \exp(-\xi^2) d\xi$$
 (D-2)

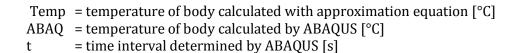
So erfc(0)=1 and erfc( $\infty$ )=0

Within Microsoft Excel and Mathemathica (software program), a complementary error function is standard implemented. If this would not be the case, a good approximation can be made with equation (5.26) and (5.27) (error smaller then 1%).

$$erfc(Z) = \frac{\sqrt{\pi}}{2Z + \sqrt{(\pi - 2)^2 \cdot Z^2 + \pi}} \cdot \exp(-Z^2)$$
 (D-3)

$$erfc\left(\frac{x}{2\sqrt{at}}\right) = \frac{\sqrt{\pi}}{2\left(\frac{x}{2\sqrt{at}}\right) + \sqrt{(\pi - 2)^2 \cdot \left(\frac{x}{2\sqrt{at}}\right)^2 + \pi}} \cdot \exp\left(-\left(\frac{x}{2\sqrt{at}}\right)^2\right)$$
(D-4)





### Appendix E: Relation between Fick's law and the general chemical potential

Diffusion is assumed to be driven by the gradient of a general chemical potential. The relation between Fick's law and the general chemical potential can be established as follows:

$$J = -D \cdot \frac{\partial c}{\partial x} \tag{E-1}$$

The concentration of the diffusing material can be written as a function of the normalized concentration and the solubility, equation (F-2).

$$\phi = \frac{c}{s} \to c = s \cdot \phi \tag{E-2}$$

Takes the partial differential, using the product rule, resulting in equation (F-3).

$$\frac{\partial c}{\partial x} = \phi \frac{\partial s}{\partial x} + s \frac{\partial \phi}{\partial x}$$
(E-3)

Substitute equation (F-3) into equation (F-1).

$$J = -D \cdot \frac{\partial c}{\partial x} \to -D \cdot \left( s \frac{\partial \phi}{\partial x} + \phi \frac{\partial s}{\partial x} \right)$$
(E-4)

The solubility (s) is a function of the temperature  $(\theta)$ ,  $s = s(\theta)$ .

$$\phi \frac{\partial s}{\partial x}$$
 and can be written as follows, equation (F-5).

$$\phi \frac{\partial s(\theta)}{\partial x} = \frac{c}{s} \frac{\partial s}{\partial \theta} \frac{\partial \theta}{\partial x}$$
(E-5)

Substitution of equation (F-5) into equation (F-4):

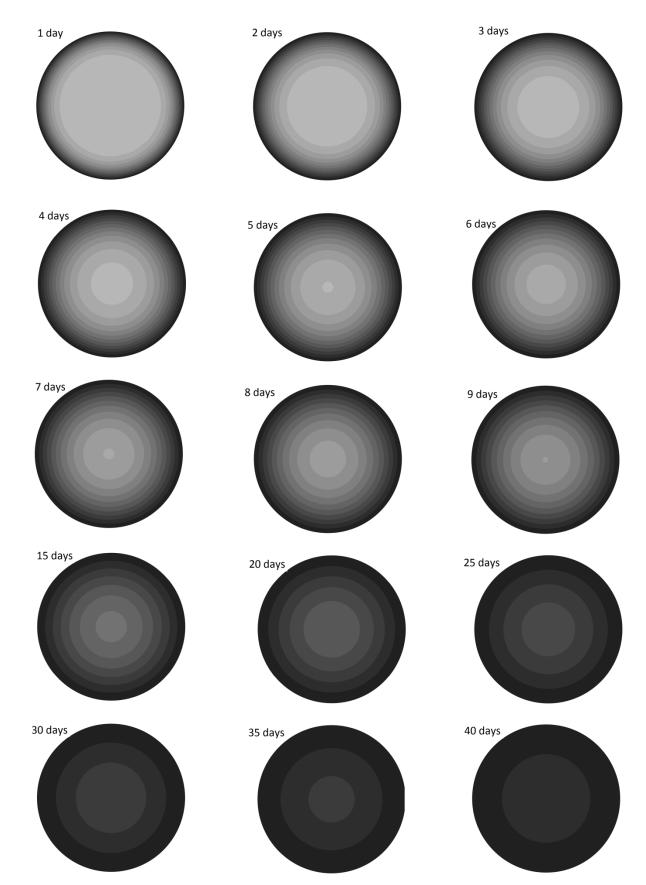
$$J = -sD \cdot \frac{\partial \phi}{\partial x} - D \frac{c}{s} \frac{\partial s}{\partial \theta} \frac{\partial \theta}{\partial x}$$
(E-6)

The first term of this equation,  $-sD \cdot \frac{\partial \phi}{\partial x}$ , describes the normalized concentration and the

second term,  $-D\frac{c}{s}\frac{\partial s}{\partial \theta}\frac{\partial \theta}{\partial x}$ , describes the temperature-driven diffusion, respectively. The first term (normalized concentration driven-diffusion term) is identical to that given in the general mass diffusion equation used by ABAQUS equation. The second term (temperature driven-diffusion term) is recovered in the general relation if:

$$\kappa_s = \frac{c \cdot (\theta - \theta^Z)}{s^2} \frac{\partial s}{\partial \theta}$$
(E-7)

# Appendix F: Moisture movement



## Appendix G: Data shape stability of sawn timber and the influence of gesso WB-1-Twist

Open (and b)         U2 works)         Interior (barry b)         Open (barry b)         (barry b) <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>												
0.0000         1.00         0.0001 <td></td> <td>1/2 Width</td> <td></td> <td></td> <td></td> <td>TWIST</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>TWIST</td>		1/2 Width				TWIST						TWIST
0.0008         1.80         0.00847         1.0         0.007         1.00         0.00847         0.0         0.0087         0.0         0.0         0.0         0.0         0.0         0	0,0001	100	6,99931E-05	0	0		0,0001	100	6,75E-05	0	0	
0.008         100         0.008         110         0.008         100         0.0007         100         0.00071         100         0.0007	0,0002	100	0,000138902	0	0		0,0002	100	0,00011	0	0	1
0.008         100         0.008         110         0.008         100         0.0007         100         0.00071         100         0.0007	0.0005	100	0.000276697	0	0		0.0003	100	0.000174	0	0	
3.00         8.00         6.0071         10         0         0.0071         100         0.00001         1         0           0.01         100         0.000115         2         0         0         0.000115         2         0           0.010         0.000115         2         0         0         0.000115         2         0           0.010         0.000115         2         0         0.000115         2         0           0.0101         0.000115         2         0         0.000115         2         0           0.0101         0.000115         2         0.00115         2         0         0.00115         2         0           0.0101         0.00011455         3         0         0.0011455         3         0         0.00114         0         0.00114         0         0.00114         0         0.00114         0         0.00114         0         0.00114         0         0.00114         0         0.00114         0         0.00114         0         0         0.00114         0         0.00114         0         0.00114         0         0.00114         0         0         0.00114         0 <th00114< th=""> <th00114<< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th00114<<></th00114<>												
5.802         1.00         6.801         1.00         6.002         1.00         0.002         0.002         <												
Base         Base <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>												
0.0070         100         0.00784029         3         0         0         0.008         100         0.001185         1         0           0.0020         100         0.0078422         7         0         0         0.00718         1         0         0           0.0120         0.01781772         2         0         0         0.01728         100         0.01738         5         0           0.0200         0.01781772         12         0         0.01727         100         0.01758         12         0           0.0200         0.00         0.017581772         12         0         0.01758         12         0         0.01758         12         0         12/11           0.0200         0.00         0.01758172         2         0         0.01758         12         0         12/11           0.0200         0.00758172         231         0         1.01717         100         0.01758         12         0         1.211           0.0200         0.02758177         231         0         0.01758         10         0         0.01758         12         0         1.211           0.0200         0.027581777         231         <												
0.000         100         0.00259847         7         0         0.0027         100         0.002598         100         0.002598         100         0.002598         100         0.002598         100         0.002598         100         0.002598         100         0.00272         100         0.00272         100         0.00272         100         0.00272         100         0.00278         <	0,0034	100	0,001953895	2	0		0,0017	100	0,000953	1	0	
QuAR         103         QuARF         20         QuARF         30         QuARF         3         0         N           QuAR         200         QuARF         100	0,0052	100	0,002996879	3	0		0,0025	100	0,001438	1	0	
QABIA         DO         QABIS         DO         QA	0,0080	100	0,004558435	4	0		0,0038	100	0,002165	2	0	
QABIA         DO         QABIS         DO         QA	0,0120	100	0,006894229	7	0		0,0057	100	0,003254	3	0	
0.407         100         0.405540100         15         0         0.712         500         0.7123         5         0         0           0.4067         100         0.405412         24         0         0.4237         100         0.40542         34         0           0.4050         0.00414417         34         0         0.4237         100         0.40533         31         0           0.4050         0.0041441         100         0.40533         100         0.40533         31         0           0.4050         0.1052205757         200         0.40503         100         0.40513         100         0.40523         12         0           0.4151         100         0.4550563         250         0         -         0.4393         100         0.41727         130         0         0.41727         130         0         0.41727         130         0         0.41727         141         1         1         1         1         1         1         0.41727         1         0         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>												
0.4660         100         0.0231272         23         0         0.4977         180         0.4078         3         0           0.4660         150         0.3977         180         0.40873         180         0.40873         130         0.40873         130         0.40873         130         0.40873         130         0.40873         130         0.40873         130         0.40873         130         0.40873         130         0.40873         130         0.40873         130         0.40873         130         0.40873         130         0.41873         130         0.41873         130         0.41873         130         0.41873         130         0.41873         130         0.41873         130         0.41873         130         0.41873         130         0.41873         130         0.41873         130         0.41873         130         0.41873         130         14173         130         0.44879         1315         0.41873         1313         0.41873         1313         0.41873         1313         0.41873         1313         0.41873         1313         0.41873         1313         0.41873         1313         0.41873         1313         0.41873         13133         0.418733         1313<												
0.0650         100         0.0717481.72         34         0         0.0273         100         0.02183         14         0         0           0.1533         100         0.0717481.08         77         0         0.02183         100         0.021847         120         0           0.1543         100         0.01102579         177         0         0.00481         100         0.00481         0         0.02187         120         0           0.7217         100         0.0110755         1350         0         1.000         0.004814         130         0.004814         130         0.011075         0         0           0.7211         100         0.02593         100         0.024818         100         0.044814         130         0.011075         100         1.011111         1.011111         1.01111<												
0.000         1.00         0.0258         2.00         0.02459         3.00         0.02589         72         0         0.02459         72         0         1.021           0.1326         0.00         0.005887         0         0.02487         100         0.05487         47         0         1.021         0         1.021         0         0.021         0         0         0.021         0         0         0.021         0         0         0.021         0         0         0.021         0         0         0.021         0         0         0         0.021         0        <												
0.128         100         0.027981 180         7.7         0         121           0.2784         100         0.15005 177         7.7         0         121           0.2784         100         0.15025 20         0         0.05047         7.7         0         0           0.3712         100         0.15025 20         0.0         0.1707         100         0.00147           0.4314         100         0.15025 20         0.0         0.0050         0.001         0.1707         100         0           1.4314         100         0.5505 20         0.0         0.4515         100         0.45176         530         0         1           1.4422         100         0.45176 50         0.0         0.55376         12         1	0,0606	100		34	0		0,0287	100	0,016425	14	0	
0.4288         100         0.11103105         1.17         0         E-reference         0.447         100         0.46423         7         0         1         1           0.4728         100         0.11103205         125         0         0.4802         100         0.48423         100         0.48423         100         0.48423         100         0.48423         20         0         0.4803         100         0.48423         20         0         0         0.48423         100         0.48423         100         0.48423         100         0.48423         100         0.48423         100         0.48423         100         0.48423         100         0.48423         100         0.48423         100         0.48423         100         0.48423         100         0.48423         100         0.48423         100         0.48423         100         0.48423         100         0.48423         100         0.48423         100         1.1717         100         0.48423         100         1.1717         100         1.1718         110<1	0,0900	100	0,051543269	52	0		0,0428	100	0,024533	21	0	
0.278         0.00         0.1003         0.000         0.000         0.000         0.0000	0,1326	100	0,075981608	78	0		0,0638	100	0,036557	32	0	
0.278         0.00         0.1003         0.000         0.000         0.000         0.0000	0,1938	100	0,11103105	117	0	E-reference	0,0947	100	0,054287	47	0	1/2 E-1
0.3525         100         0.2278137         2.81         0         0.289         100         0.17852         160         0           0.3515         100         0.42585752         341         0         -0.293         100         0.44634         2.99         0           0.9811         100         0.42580782         847         0         -4.463         100         0.44478         539         0         -           1.442         100         0.4258072         2.06         1         -         1.037         00         0.44478         539         0         -         1.141           1.442         100         0.4456022         2.06         1         -         1.037         00         1.03751         7277         107         100         1.12355         401         1         -         -         2.4783         100         1.23751         111         1.047         1.12355         401         1         -         -         2.4433         100         1.23721         111         1.047         1.047         1.047         1.047         1.047         1.047         1.047         1.047         1.047         1.047         1.047         1.047         1.047         1.047												
0.355         1.90         0.411         0.05         0.2590         1.90         0.7775         1.90         0           0.9411         300         0.5524/083         877         0         5.918         1.90         0.34163         337         0           1.144         300         0.5524/083         877         0         5.912         300         0.4412         230         0.4412           1.0471         300         0.5524/083         287         1         1.0571         300         0.49443         400         1.114           1.0474         300         0.5524/083         287         1         1.0571         300         0.50448         400         1.114           1.0474         300         1.2298112         2014         1         1.114         300         0.50457         211         1.114         300         1.01737         300         1.02937         211         1.1174         300         1.01737         300         1.02937         211         2.1577         300         1.52987         401         414         414         414         414         414         414         414         414         414         414         414         414         414 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td>									-			
0.4671         0.00         0.42507(mi)         53.1         0         0.42507         100         0.435494         29.0         0           1.111         100         0.455441125         1330         0         0.4112         100         0.465745         35.9         0           1.4422         100         0.45544125         1.4077         100         0.466775         35.9         0           1.4422         100         1.46571         100         0.466778         35.9         0         1           1.4224         100         1.46672         100         0.466778         35.9         1         1           1.4234         100         1.46972         100         0.469877         27.7         1         1           2.433         100         1.46972         27.83         100         1.46957         31.6         1         1         1         1         1         2.4583         100         1.46974         31654         3         3         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1												
0.661         1.00         0.5554693         847         0         0.5412         100         0.4512         100         0.6412         100         0.6412         100         0.6412         100         0.6412         100         0.6412         100         0.6412         100         0.6412         100         0.6412         100         0.6412         100         0.6412         100         1.04165         112         100         0.6412         100         1.04165         112         100         1.04165         112         100         1.04165         112         100         1.04165         112         100         1.04165         112         100         1.04165         112         100         1.04165         112         100         1.04165         112         100         1.04165         112         100         1.04165         112         100         1.04166         112         100         1.04166         112         100         1.04166         112         100         1.04166         112         100         1.04166         112         100         100         1.04166         112         100         100         1.04166         100         100         100         100         1000         1000												
1.114         100         0.54841126         120         0         0.112         100         0.648796         5.95         0           1.4452         100         0.4485522         2.99         1         1.5345         100         0.74155         1312         0           1.2294         100         1.2294109         6774         2         1.889         100         0.38377         2277         1           2.460         100         1.22940454         100         1.22940453         100         1.22851         4         2.433         100         1.23857         2277         1           2.4733         100         1.22940245         100         1.23857         1277         1         2.4333         100         1.23857         1278         4         2.4333         100         1.23857         13         3           2.4417         100         1.53977         2397         100         1.43978         1378         10         1.23898         10         1.23898         10         1.23898         10         1.33988         10         1.33988         10         1.33988         10         1.33988         10         1.33988         10         1.33988         10         <	0,7441	100	0,426307683	591	0		0,4260	100	0,244094	239	0	
1.462         1000         0.42568602         1925         1         1.6373         100         0.400438         680         0           1.4574         1000         1.4801329         1489         1         1.5335         1000         0.911762         1318         1           1.5744         1000         1.27515         1000         0.911762         1318         1           2.4680         1000         1.275145         1010         3         1.6777         1000         1.12225         4021         1           2.4333         1000         1.2375140423         10100         3         2.7777         1000         1.24823         2.001         3         3           3.1302         1000         1.28242687         172778         48         2.7977         1000         1.248744         1040         5           3.1302         1000         1.28245675         38258         12         2.7977         1000         1.249744         1040         5           3.1302         1000         1.28245675         38258         168         3.5002         1000         1.249744         1040         104         104054         104           3.141         100         1	0,9691	100	0,555246903	887	0		0,5963	100	0,341663	359	0	
1.462         1000         0.42568602         1925         1         1.6373         100         0.400438         680         0           1.4574         1000         1.4801329         1489         1         1.5335         1000         0.911762         1318         1           1.5744         1000         1.27515         1000         0.911762         1318         1           2.4680         1000         1.275145         1010         3         1.6777         1000         1.12225         4021         1           2.4333         1000         1.2375140423         10100         3         2.7777         1000         1.24823         2.001         3         3           3.1302         1000         1.28242687         172778         48         2.7977         1000         1.248744         1040         5           3.1302         1000         1.28245675         38258         12         2.7977         1000         1.249744         1040         5           3.1302         1000         1.28245675         38258         168         3.5002         1000         1.249744         1040         104         104054         104           3.141         100         1		100	0,694041395	1330	0		0,8112	100	0,464796	539	0	
1.4289         1000         0.44865023         2292         1         1.2828         100         0.76158         120         0           1.4289         1000         1.120561165         5774         2         1.6915         1000         1.025577         217         1           2.0100         1.02560155         1000         1.27577         100         1.235805         21         1           2.0100         1.2358058         2230         100         1.235825         4091         2           2.0438         100         1.266479423         5144         4         2,0563         100         1.266279         2108         1         2,5563         100         1.266979         108         1.7777         100         1.266797         108         1.7778         4669         10         100         1.27667         100         1.2767         100         1.2778         4669         10         100         1.2766         467         11         100         1.2767         4669         10         100         1.2766         467         100         1.2777         100         1.2767         4669         10         100         1.2767         467         10         100         100												
1.428         100         1.44801159         4489         1         1.593         100         9.1752         1188         1           2.000         100         1.207501452         1010         2         1.6952         7277         1           2.1575         100         1.23285         100         1.52285         6191         2           2.484         100         1.528774         2049         9         2.4581         100         1.262873         31967         31969         32687         20795         6         2.4581         100         1.528974         31967         31967         31969         31969         31969         31967         31969         31967         31968         112         2.7777         100         1.58974         31964         9         31968         319774         31968         31977         3196         319775         3196         112         2.7777         100         1.58974         31969         3197         3196         3197         31969         31975         31989         3197         31969         31975         31989         3197         31999         3197         31999         31975         31999         31977         319997         31999         <			-						-			
1.2724     100     1.27991105     F774     2     2     1.8875     100     1.293275     2.727     1       2.2757     100     1.29390122     5     1.102     100     1.268375     8135     2       2.4812     100     1.59477422     34489     9     2.2453     100     1.35879     31365     4       2.4813     100     1.59477422     34489     9     2.2453     100     1.35879     31365     4       2.4813     100     1.59477422     34489     9     2.24531     100     1.584774     31665     13       3.1602     100     1.84452887     72757     130     1.7774     45956     13       3.3100     1.946524     238847     72     3.3441     100     1.338304     10444       3.3418     100     1.2454752     38482     104     3.5381     100     2.060473     12886       3.3418     100     1.2454752     38482     104     3.5381     100     2.060473     12886       3.418     100     1.2254752     38482     100     2.060473     12886     6       3.920     100     0.06047     1     0     0.0602     100     0.00015												
2.2676         100         1.26700452         1010         3         1.2797         100         1.32395         401         1           2.4378         100         1.3932146         22725         5         2,233         100         1.28223         2081         3156         2           2.4334         100         1.56387724         31404         14         2,2582         100         1.48599         3206         4           2,4438         100         1.56383724         5114         14         2,552         100         1.47005         32069         13           3,0487         100         1.48273314         11501         32         2,779         100         1.58974         3069         15           3,203         100         1.4827573         38385         1077         48         3,583         100         1.69373         5898         65           3,375         100         1.586505         51840         1         10         1.58373         100         2.00597         53880         64           3,367         100         0.00013         0         0         0.0001         0.000141         10         0.00015         0         0.001         0.			-									
2.478         100         1.233012a2         1511         4         2.102         100         1.26853         0.136         2           2.4813         100         1.56877473         34689         9         2.383         100         1.26857         1306         4           2.4428         100         1.56877473         34689         9         2.3835         100         1.36897         1306         4           3.4418         100         1.773944536         7770         21         2.993         100         1.88974         13064         9         3.3807         1004         1.88974         13064         22         3.393         100         1.8453887         7277         3.841         100         1.38930         106893         12         3.3607         1004         3.268773         3.8428         108         3.509         100         1.047051         23880         68           3.3670         100         1.3255473         3.8428         104         3.6431         100         2.06559         3.1440         14         14           1.9567         100         1.025559         3.1440         14         3.6431         100         0.00035         0         0         0.												
2,433         100         1,53931688         2223         6         2,2334         100         1,2624742         4064         3           2,4534         100         1,6283724         51134         14         2,5654         100         1,42902         2079         6           3,0167         100         1,72243155         7500         21         2,7577         100         1,7274         4004         9           3,203         100         1,82723141         115051         32         2,9993         100         1,7274         40054         1223253         48         3           3,203         100         1,8285487         12787         48         3,5873         100         2,00527         33335         98         -           3,375         100         1,22895095         518400         14         55537         100         2,00527         33385         98         -           0,0001         100         5,4567         0         0         0         1,5952         100         2,00527         33385         98         -           0,0001         100         5,4567         0         0         0         0,0021         0         0         0,			-						-			
2,4813         100         1,26847342         5144         14         2,863         100         1,2692         100         1,47923         2,873         100         1,47923         2,873         100         1,47923         2,775         100         1,47923         100         1,47923         100         1,37924         100         1,37934         100         1,3862         3683         101         1,36805         108         2,7757         100         1,5285478         50863         101         1,3757         44         3,7114         100         1,5285478         50863         101         1,3757         44         3,7873         100         2,640731         238580         662         1         3,7897         100         2,640731         238580         66         1         3,7897         100         2,640731         238580         66         1         1,7897         100         2,640731         238580         66         1         1,7897         100         2,640731         238587         100         2,640731         238587         100         2,640731         238587         100         2,640731         238587         100         2,640731         238587         100         2,640731         100         1,640741 <td>2,2576</td> <td>100</td> <td>1,293301282</td> <td>15151</td> <td>4</td> <td></td> <td>2,1102</td> <td>100</td> <td>1,208853</td> <td>6136</td> <td>2</td> <td></td>	2,2576	100	1,293301282	15151	4		2,1102	100	1,208853	6136	2	
2,448         100         1,62337234         5113         14         2,562         100         1,4294316         700         21           3,067         100         1,42733141         110051         32         2,9993         100         1,429451         6700         13           3,209         100         1,42733141         110051         32         2,9993         100         1,7274         45058         13           3,308         100         1,5255497         38436         72         3,3438         100         1,53857         12580         55           3,309         100         1,5255479         38436         100         1,53857         12580         55           3,309         100         2,60573         33585         98         100         2,00573         33585         98           0,0001         100         6,944-65         0         0         0,0001         100         0,0001         100         0,0001         100         0,0001         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <td>2,4333</td> <td>100</td> <td>1,393891686</td> <td>22726</td> <td>6</td> <td></td> <td>2,2383</td> <td>100</td> <td>1,282232</td> <td>9204</td> <td>3</td> <td></td>	2,4333	100	1,393891686	22726	6		2,2383	100	1,282232	9204	3	
2,448         100         1,62337234         5113         14         2,562         100         1,4294316         700         21           3,067         100         1,42733141         110051         32         2,9993         100         1,429451         6700         13           3,209         100         1,42733141         110051         32         2,9993         100         1,7274         45058         13           3,308         100         1,5255497         38436         72         3,3438         100         1,53857         12580         55           3,309         100         1,5255479         38436         100         1,53857         12580         55           3,309         100         2,60573         33585         98         100         2,00573         33585         98           0,0001         100         6,944-65         0         0         0,0001         100         0,0001         100         0,0001         100         0,0001         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <td></td> <td>100</td> <td></td> <td>34089</td> <td>9</td> <td></td> <td></td> <td>100</td> <td></td> <td>13805</td> <td>4</td> <td></td>		100		34089	9			100		13805	4	
3.897         100         1.2734131         3790         2.775         100         1.5877         100         1.5877         100         1.5878         100         1.33233           3.393         100         1.34823887         17257         44         3.114         100         1.53856         13           3.3418         100         1.32854739         38425         108         3.7967         100         2.06587         15780         4           3.3675         100         1.32854739         38425         108         3.7987         100         2.06597         13385         94           3.3675         100         1.3285473         38425         108         2.06597         13385         94           3.0601         100         5.346-65         0         0         0.0602         100         5.046-5         0         0           0.0002         100         0.000113         0         0         0.0002         100         0.00025         0         0         0.0002         0.00025         0         0         0.00025         0         0         0.00025         0         0         0.00025         0         0         0.0001         0.00007         0.0000									-			
3.190         100         1,87273-141         11051         12         2,9993         100         1,87193         66963         13           3.1700         1,91400953         25884         72         3,3843         100         1,92895         6164         3,5873         33843         100         1,928950         5164         2         3,3843         100         2,05737         33843         100         2,05737         33843         100         2,05737         33843         100         2,05737         33843         100         2,05737         33843         100         1,0289500         104         10         10         0,0001         10         0,0001         100         0,0007         100         0,0001         0         0         10         10         0,0007         100         0,0007         100         0,0007         100         0,0007         100         0,0007         100         0,0007         100         0,0007         100         0,0007         100         0,0007         100         0,0007         100         0,0007         100         0,0007         100         0,0007         100         0,0007         100         0,0007         100         0,0007         100         0,0007												
3.2408         100         1,84473887         12275         48         3.2114         100         1,938304         1094           3.3418         100         1,3408574         23.857         106         1,35304         100         1,938304         109400         2.9           3.3670         100         1,2255473         38325         106         3,569         100         2.05957         35380         104           3.3677         100         2,25577         35385         98         100         2.05957         35380         104           0.0001         100         6,544-06         0         0         0,0002         100         0,0001         100         0,174.05         0         0           0.0002         100         0,00013         0         0         0,0002         100         0,0003         0         0           0.0003         100         0,00042         0         0,0001         100         0,0003         0         0           0.0003         100         0,00042         1         0         0,0003         100         0,00035         0         0           0.0003         100         0,000434         1         0         <												
3.348         100         1.934009524         2.5884         72         3.342         100         1.93804         100440         29           3.300         100         1.9289595         518400         144         3.503         100         2.055297         233825         98           3.950         100         1.928959         518400         144         3.563         100         2.055297         253825         98           100         6.564:65         0         0         0.0001         100         6.187:65         0         0           0,0002         100         0.000179         0         0         0.0002         100         0.00018         0         0           0,0007         100         0.00047         1         0         0.0007         100         0.00077         0         0         0.0007         0         0.00077         0         0         0.0007         100         0.00085         1         0         0.0007         0         0.00077         0         0         0.00077         0         0.00077         0         0.00076         0         0.0007         0         0.00077         0         0.00076         0         0         0.00077 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td>									-			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$												
3,805         100         1,32895985         518400         144         3,5837 3,5877         100         2,00751 2,05527         25380 3,5867         566           0,001         100         5,846         0         100         5,186         0         104           0,0001         100         0,944         0         0,0001         100         5,186         0         0           0,0002         100         0,00013         0         0         0,0001         100         0,0002         100         0,00015         0         0           0,0003         100         0,00027         0         0         0,0001         100         0,000272         0         0         0,0001         100         0,000272         0         0         0,00015         0         0         0           0,0017         100         0,00047         1         0         0,0015         100         0,00015         1         0           0,0025         1         0         0,0027         100         0,00255         3         0         0,00255         3         0           0,0056         100         0,005731         3         0         0,0025         1         0 <td>3,3418</td> <td>100</td> <td>1,914009524</td> <td>258864</td> <td>72</td> <td></td> <td>3,3843</td> <td>100</td> <td>1,938304</td> <td>104840</td> <td>29</td> <td></td>	3,3418	100	1,914009524	258864	72		3,3843	100	1,938304	104840	29	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	3,3620	100	1,92554739	388296	108		3,5009	100	2,005043	157260	44	
j.5992         100         2,0992         518400         144           Dbap[Imm]         J/2 Width         hst[dagre]         time (h)         TWIST         Dbap[Imm]         J/2 Width         hst[dagre]         time (h)         TWIST           0,0001         100         6,544-05         0         0         6,0001         0         6,0001         0         0         0           0,0002         100         0,00013         0         0         0,0001         0         0         0         0         0         0         0         0         0         0         0,0001         0 <td>3,3675</td> <td>100</td> <td>1,928695095</td> <td>518400</td> <td>144</td> <td></td> <td>3,5633</td> <td>100</td> <td>2,040751</td> <td>235890</td> <td>66</td> <td></td>	3,3675	100	1,928695095	518400	144		3,5633	100	2,040751	235890	66	
j.5992         100         2,0992         518400         144           Dbap[Imm]         J/2 Width         hst[dagre]         time (h)         TWIST         Dbap[Imm]         J/2 Width         hst[dagre]         time (h)         TWIST           0,0001         100         6,544-05         0         0         6,0001         0         6,0001         0         0         0           0,0002         100         0,00013         0         0         0,0001         0         0         0         0         0         0         0         0         0         0         0,0001         0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3.5887</td> <td>100</td> <td>2.055297</td> <td>353835</td> <td>98</td> <td></td>							3.5887	100	2.055297	353835	98	
								100		518400	144	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Displ [mm]	1/2 Width	rist [degre	time [sec.]	time	h) TWIST	Displ [mm]	1/2 Width	rist [degree	time [sec.]	time (h)	TWIST
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	0,0001											
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		100	6,94E-05	0	0		0,0001	100	6,13E-05	0	0	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$												
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	0,0002	100	0,000113	0	0		0,0002	100	0,0001	0	0	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	0,0002 0,0003	100 100	0,000113 0,000179	0 0	0 0		0,0002 0,0003	100 100	0,0001 0,000158	0 0	0 0	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	0,0002 0,0003 0,0005	100 100 100	0,000113 0,000179 0,000278	0 0 0	0 0 0		0,0002 0,0003 0,0004	100 100 100	0,0001 0,000158 0,000245	0 0 0	0 0 0	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	0,0002 0,0003 0,0005 0,0007	100 100 100 100	0,000113 0,000179 0,000278 0,000425	0 0 0 0	0 0 0		0,0002 0,0003 0,0004 0,0007	100 100 100 100	0,0001 0,000158 0,000245	0 0 0	0 0 0	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	0,0002 0,0003 0,0005 0,0007	100 100 100 100	0,000113 0,000179 0,000278 0,000425	0 0 0 0	0 0 0		0,0002 0,0003 0,0004 0,0007	100 100 100 100	0,0001 0,000158 0,000245 0,000375	0 0 0	0 0 0	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	0,0002 0,0003 0,0005 0,0007 0,0011	100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000647	0 0 0 1	0 0 0 0		0,0002 0,0003 0,0004 0,0007 0,0010	100 100 100 100 100	0,0001 0,000158 0,000245 0,000376 0,000572	0 0 0 1	0 0 0 0	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	0,0002 0,0003 0,0005 0,0007 0,0011 0,0017	100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000647 0,00098	0 0 0 1 1	0 0 0 0 0		0,0002 0,0003 0,0004 0,0007 0,0010 0,0015	100 100 100 100 100 100	0,0001 0,000158 0,000245 0,000376 0,000572 0,000865	0 0 0 1 1	0 0 0 0 0	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	0,0002 0,0003 0,0005 0,0007 0,0011 0,0017 0,0025	100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000647 0,00098 0,001478	0 0 0 1 1 1	0 0 0 0 0 0		0,0002 0,0003 0,0004 0,0007 0,0010 0,0015 0,0023	100 100 100 100 100 100 100	0,0001 0,000158 0,000245 0,000376 0,000572 0,000865 0,001306	0 0 0 1 1 1	0 0 0 0 0 0	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	0,0002 0,0003 0,0005 0,0007 0,0011 0,0017 0,0026 0,0039	100 100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000647 0,00098 0,001478 0,002225	0 0 0 1 1 1 2	0 0 0 0 0 0		0,0002 0,0003 0,0004 0,0007 0,0010 0,0015 0,0023 0,0034	100 100 100 100 100 100 100 100	0,0001 0,000158 0,000245 0,000376 0,000372 0,000855 0,001306 0,001966	0 0 0 1 1 1 2	0 0 0 0 0 0 0	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	0,0002 0,0003 0,0005 0,0007 0,0011 0,0017 0,0026 0,0039 0,0058	100 100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000647 0,00098 0,001478 0,002226 0,003346	0 0 0 1 1 2 3	0 0 0 0 0 0 0		0,0002 0,0003 0,0004 0,0007 0,0010 0,0015 0,0023 0,0034 0,0052	100 100 100 100 100 100 100 100 100	0,0001 0,000158 0,000245 0,000376 0,000572 0,000865 0,001306 0,001966 0,002955	0 0 1 1 2 3	0 0 0 0 0 0 0 0 0	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	0,0002 0,0003 0,0005 0,0017 0,0017 0,0017 0,0026 0,0039 0,0058 0,0088	100 100 100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000647 0,00098 0,001478 0,002225 0,003345 0,005023	0 0 0 1 1 1 2 3 4	0 0 0 0 0 0 0 0 0		0,0002 0,0003 0,0004 0,0007 0,0010 0,0015 0,0023 0,0034 0,0052 0,0077	100 100 100 100 100 100 100 100 100 100	0,0001 0,000158 0,000245 0,000376 0,000572 0,000865 0,001306 0,001966 0,001965 0,002955 0,004437	0 0 1 1 2 3 4	0 0 0 0 0 0 0 0 0 0 0	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	0,0002 0,0003 0,0005 0,0017 0,0017 0,0017 0,0026 0,0039 0,0058 0,0088	100 100 100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000647 0,00098 0,001478 0,002225 0,003345 0,005023	0 0 0 1 1 1 2 3 4	0 0 0 0 0 0 0 0 0		0,0002 0,0003 0,0004 0,0007 0,0010 0,0015 0,0023 0,0034 0,0052 0,0077	100 100 100 100 100 100 100 100 100 100	0,0001 0,000158 0,000245 0,000376 0,000572 0,000865 0,001306 0,001966 0,001965 0,002955 0,004437	0 0 1 1 2 3 4	0 0 0 0 0 0 0 0 0 0 0	
0,0440       100       0,025218       21       0       0,0389       100       0,02229       21       0         0,0555       100       0,037572       32       0       0,0580       100       0,033225       32       0         0,0574       100       0,055781       47       0       1/2 E-R       0,0661       100       0,0439359       47       0       1/2 E-T         0,1438       100       0,022394       71       0       0,1274       100       0,07274       71       0         0,2108       100       0,12799       106       0       0,2717       100       0,15569       160       0         0,4368       100       0,25246       239       0       0,3831       100       0,21276       359       0         0,6107       100       0,45458       100       0,452579       539       0       0,5458       100       0,56112       808       0         1,859       100       0,677572       1212       0       1,2222       100       0,56112       808       0         1,859       100       0,78762       1212       0       1,2232       100       0,56158       401	0,0002 0,0003 0,0005 0,0007 0,0011 0,0017 0,0026 0,0039 0,0039 0,0058 0,0088 0,0131	100 100 100 100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000647 0,00098 0,001478 0,002226 0,003346 0,005023 0,007533	0 0 0 1 1 2 3 4 5	0 0 0 0 0 0 0 0 0		0,0002 0,0003 0,0004 0,0007 0,0015 0,0023 0,0034 0,0052 0,0077 0,0115	100 100 100 100 100 100 100 100 100 100	0,0001 0,000158 0,000245 0,000376 0,000572 0,000865 0,001306 0,001366 0,001366 0,002955 0,004437 0,006655	0 0 0 1 1 2 3 4 5	0 0 0 0 0 0 0 0 0 0 0 0 0	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	0,0002 0,0003 0,0005 0,0007 0,0011 0,0017 0,0026 0,0039 0,0058 0,0088 0,0131 0,0197	100 100 100 100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000647 0,00098 0,001478 0,002225 0,003346 0,00523 0,007533 0,011286	0 0 0 1 1 2 3 4 5 9			0,0002 0,0003 0,0004 0,0007 0,0015 0,0015 0,0015 0,0015 0,0015 0,0077 0,0115 0,0174	100 100 100 100 100 100 100 100 100 100	0,0001 0,000158 0,000245 0,000376 0,000572 0,000865 0,001306 0,001366 0,001365 0,002555 0,004437 0,006655 0,009971	0 0 1 1 2 3 4 5 9	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	0,0002 0,0003 0,0005 0,0007 0,0011 0,0017 0,0026 0,0039 0,0058 0,0068 0,0068 0,0131 0,0197 0,0295	100 100 100 100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000647 0,00098 0,001478 0,002226 0,003345 0,005023 0,007533 0,0015885	0 0 0 1 1 2 3 4 5 9 14	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0002 0,0003 0,0004 0,0007 0,0010 0,0015 0,0023 0,0034 0,0052 0,0077 0,0115 0,0174 0,0250	100 100 100 100 100 100 100 100 100 100	0,0001 0,000158 0,000376 0,000376 0,000572 0,000865 0,001306 0,001966 0,002555 0,004437 0,006655 0,009971 0,01492	0 0 0 1 1 2 3 4 5 9 14	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
$            0,1438  100  0,082394  71 \qquad 0 \qquad 0,1274 \qquad 100 \qquad 0,072974  71 \qquad 0 \\ 0,2108  100 \qquad 0,120799  106 \qquad 0 \\ 0,1870 \qquad 100 \qquad 0,107129  106 \qquad 0 \\ 0,0858  100 \qquad 0,175205  160 \qquad 0 \\ 0,2717  100 \qquad 0,15569  160 \qquad 0 \\ 0,3058  100 \qquad 0,2752046  239 \qquad 0 \\ 0,3891  100 \qquad 0,222911  239 \qquad 0 \\ 0,6107  100 \qquad 0,349874  359 \qquad 0 \\ 0,6107  100  0,349874  359 \qquad 0 \\ 0,6216  308  0 \\ 0,7745  100  0,72576  359  0 \\ 0,62216  808  0 \\ 0,7745  100  0,76757  1212  0 \\ 1,2322  100  0,708577  1212  0 \\ 1,6192  100  0,778762  1212  0 \\ 1,6192  100  0,768757  1212  0 \\ 1,6192  100  0,727674  1818  1 \\ 1,4750  100  0,963298  2727  1 \\ 2,0049  100  1,148575  4091  1 \\ 1,8477  100  1,130666  6136  2 \\ 2,2610  100  1,22537  9204  3 \\ 2,103  100  1,205588  4091  1 \\ 2,1365  100  1,22537  9204  3 \\ 2,103  100  1,20558  13806  4 \\ 2,5767  100  1,376936  13806  4 \\ 2,2528  100  1,2053  13806  4 \\ 2,5767  100  1,376936  13806  4 \\ 2,2576  100  1,51839  31064  9 \\ 2,9577  100  1,714191  45596  13 \\ 2,6506  100  1,793722  5 130 \\ 4,5931  100  1,51839  31064  9 \\ 2,9577  100  1,714191  45596  13 \\ 3,1964  100  1,83802  69893  19 \\ 3,3625  100  1,225815  1004440  29 \\ 3,7775  100  1,714191  45596  13 \\ 3,3918  100  1,77302  69893  19 \\ 3,3625  100  1,225816  104440  29 \\ 3,7775  100  1,714191  45596  13 \\ 3,3918  100  1,77302  69893  19 \\ 3,3625  100  1,925815  104440  29 \\ 3,7725  100  1,714291  157260  44 \\ 3,5343  100  2,024155  25580  66 \\ 3,4555  100  1,979108  25580  66 \\ 3,4555  100  1,99382  35835  98 \\ 3,4815  100  1,993982  35835  98 \\ 3,4815  100  1,993982  35835  98 \\ 3,4815  100  1,993982  35835  98 \\ 3,4815  100  1,993982  35835  98 \\ 3,4815  100  1,993982  35835  98 \\ 3,4815  100  1,993982  35835  98 \\ 3,4815  100  1,993982  35835  98 \\ 3,4815  100  1,993982  35835  98 \\ 3,4815  100  1,993982  35835  98 \\ 3,4815  100  1,993982  35835  98 \\ 3,48$	0,0002 0,0003 0,0005 0,0007 0,0011 0,0017 0,0026 0,0039 0,0058 0,0088 0,0131 0,0137 0,0295 0,0440	100 100 100 100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000647 0,00098 0,001478 0,002226 0,003346 0,005023 0,007533 0,011286 0,015885 0,025218	0 0 1 1 2 3 4 5 9 14 21	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0002 0,0003 0,0004 0,0010 0,0015 0,0023 0,0034 0,0052 0,0077 0,0115 0,0174 0,0250 0,0389	100 100 100 100 100 100 100 100 100 100	0,0001 0,000158 0,000376 0,000375 0,000855 0,001306 0,001966 0,002955 0,004437 0,006655 0,009971 0,01492 0,01492	0 0 1 1 2 3 4 5 9 14 21 2		
0,2108 100 0,120799 106 0 0,1870 100 0,107129 106 0 0 0,3058 100 0,175205 160 0 0,2717 100 0,155669 160 0 0,20175 0,2017 100 0,250245 239 0 0,3891 100 0,222911 239 0 0,5107 100 0,249874 359 0 0,5458 100 0,222911 239 0 0,6107 100 0,249874 359 0 0,5458 100 0,212705 359 0 0,8295 100 0,475287 539 0 0,7445 100 0,426579 539 0 0,8295 100 0,622168 808 0 0,9794 100 0,56112 808 0 0,13593 100 0,778762 1212 0 1,2322 100 0,705957 1212 0 1,5132 100 0,927624 1818 1 1,4750 100 0,945045 1818 1 1,8375 100 1,052697 2727 1 1,5614 100 0,963298 2727 1 2,0049 100 1,148575 4091 1 1,8427 100 1,055658 4091 1 2,2432 6135 2 2,2510 100 1,22392 6135 2 2,1023 100 1,205558 4091 1 2,24317 100 1,25537 9204 3 2,1023 100 1,205558 4091 3 2,1023 100 1,205558 4091 3 2,25767 100 1,376935 13805 4 2,2528 100 1,29053 13805 4 2,5767 100 1,376935 13805 4 2,2528 100 1,29053 13805 4 2,5767 100 1,475002 20709 6 2,4365 100 1,29533 13805 4 2,5767 100 1,475002 20709 6 2,4365 100 1,29533 13805 4 2,5767 100 1,475002 20709 6 2,4365 100 1,29053 13805 4 2,5767 100 1,475002 20709 6 2,4365 100 1,518309 31064 9 2,9277 10 1,51255 31064 9 2,6506 100 1,518309 31064 9 2,9277 10 1,51255 31064 9 2,4375 100 1,518309 31064 9 2,9277 100 1,518309 31064 9 2,9557 100 1,518309 31064 9 2,9277 100 1,71202 69893 19 3,958 100 1,77302 69893 19 3,958 100 1,979108 235890 66 3,4555 100 1,979108 235890 66 3,4555 100 1,979108 235890 66 3,4555 100 1,979108 235893 66 5 3,4555 100 1,979108 235893 66 5 3,4555 100 1,979108 235	0,0002 0,0003 0,0005 0,0007 0,0011 0,0017 0,0025 0,0039 0,0058 0,0088 0,0131 0,0197 0,0295 0,0440 0,0655	100 100 100 100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000647 0,00098 0,001478 0,002225 0,00223 0,007533 0,015885 0,025218 0,037572	0 0 1 1 1 3 4 6 9 14 21 32	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0002 0,0003 0,0004 0,0007 0,0015 0,0015 0,0015 0,0034 0,0052 0,0077 0,0116 0,0174 0,0176 0,0174 0,0260 0,0389 0,0580	100 100 100 100 100 100 100 100 100 100	0,0001 0,000245 0,000376 0,000372 0,000865 0,001306 0,001366 0,002355 0,004437 0,006655 0,004437 0,006655 0,004921 0,01492 0,02229	0 0 1 1 2 3 4 6 9 14 21 32		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	0,0002 0,0003 0,0005 0,0007 0,0011 0,0025 0,0039 0,0058 0,0058 0,0058 0,0058 0,0058 0,0131 0,0197 0,0295 0,0440 0,0655 0,0974	100 100 100 100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000425 0,00098 0,001478 0,002225 0,003346 0,005023 0,007533 0,011285 0,015885 0,0158218 0,0155721 0,055781	0 0 0 1 1 1 2 3 4 5 9 14 21 32 47	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 E-R	0,0002 0,0003 0,0004 0,0007 0,0015 0,0023 0,0034 0,0052 0,0077 0,0115 0,0174 0,0260 0,0389 0,0580 0,0861	100 100 100 100 100 100 100 100 100 100	0,0001 0,000245 0,000376 0,000372 0,000865 0,001306 0,001966 0,002955 0,00437 0,006655 0,009971 0,01492 0,02229 0,03225 0,049359	0 0 1 1 2 3 4 5 9 14 21 32 47		1/2 E-T
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	0,0002 0,0003 0,0005 0,0007 0,0011 0,0025 0,0039 0,0058 0,0058 0,0058 0,0058 0,0058 0,0131 0,0197 0,0295 0,0440 0,0655 0,0974	100 100 100 100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000425 0,00098 0,001478 0,002225 0,003346 0,005023 0,007533 0,011285 0,015885 0,0158218 0,0155721 0,055781	0 0 0 1 1 1 2 3 4 5 9 14 21 32 47	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 E-R	0,0002 0,0003 0,0004 0,0007 0,0015 0,0023 0,0034 0,0052 0,0077 0,0115 0,0174 0,0260 0,0389 0,0580 0,0861	100 100 100 100 100 100 100 100 100 100	0,0001 0,000245 0,000376 0,000372 0,000865 0,001306 0,001966 0,002955 0,00437 0,006655 0,009971 0,01492 0,02229 0,03225 0,049359	0 0 1 1 2 3 4 5 9 14 21 32 47		1/2 E-T
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0,0002 0,0003 0,0005 0,0007 0,0011 0,0017 0,0026 0,0039 0,0058 0,0088 0,0088 0,0131 0,0197 0,0295 0,0440 0,0656 0,0974 0,1438	100 100 100 100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000647 0,00098 0,001478 0,002226 0,003345 0,005023 0,007533 0,0015885 0,015885 0,015885 0,015885 0,015885 0,015885 0,015721 0,005781 0,005781	0 0 1 1 2 3 4 5 9 14 21 32 47 71	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 E-R	0,0002 0,0003 0,0004 0,0007 0,0015 0,0023 0,0034 0,0052 0,0077 0,0115 0,0174 0,0250 0,0389 0,0580 0,0861 0,1274	100 100 100 100 100 100 100 100 100 100	0,0001 0,000245 0,000376 0,000376 0,000376 0,000376 0,001306 0,001366 0,001366 0,002955 0,004437 0,006655 0,004437 0,004655 0,009971 0,01492 0,02229 0,033225 0,043359 0,072974	0 0 1 1 2 3 4 5 9 14 21 32 47 71		1/2 Е-Т
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0,0002 0,0003 0,0005 0,0007 0,0011 0,0017 0,0026 0,0039 0,0058 0,0088 0,0131 0,0137 0,0295 0,0440 0,0655 0,0974 0,0458	100 100 100 100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000647 0,00098 0,001478 0,002226 0,003345 0,005023 0,007533 0,011286 0,015885 0,025218 0,037572 0,055781 0,082394 0,120799	0 0 1 1 2 3 4 5 9 14 21 32 47 71 106	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2E-R	0,0002 0,0003 0,0004 0,0007 0,0015 0,0023 0,0034 0,0052 0,0077 0,0116 0,0174 0,0250 0,0389 0,0580 0,0861 0,1274 0,1870	100 100 100 100 100 100 100 100 100 100	0,0001 0,000245 0,000376 0,000376 0,000572 0,000865 0,001306 0,001366 0,001365 0,00255 0,004437 0,006655 0,009971 0,01492 0,02229 0,033225 0,049359 0,0722974 0,107129	0 0 1 1 2 3 4 5 9 14 21 32 47 71 106		1/2Е-Т
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	0,0002 0,0003 0,0005 0,0007 0,0011 0,0017 0,0026 0,0039 0,0058 0,0088 0,0131 0,0197 0,0295 0,0440 0,0656 0,0974 0,1438 0,2108	100 100 100 100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000647 0,00098 0,001478 0,002226 0,003345 0,005023 0,007533 0,015885 0,025218 0,037572 0,065781 0,082394 0,120799 0,175205	0 0 1 1 2 3 4 6 9 14 21 32 47 71 105 150	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 E-R	0,0002 0,0003 0,0004 0,0007 0,0015 0,0023 0,0034 0,0052 0,0077 0,0116 0,0174 0,0250 0,0389 0,0389 0,0389 0,0580 0,0861 0,1274 0,1274 0,2717	100 100 100 100 100 100 100 100 100 100	0,0001 0,000245 0,000376 0,000372 0,000865 0,001306 0,001366 0,002355 0,004437 0,006655 0,009971 0,01492 0,02229 0,033225 0,049359 0,072974 0,072974 0,072974 0,155669	0 0 1 1 2 3 4 5 9 14 21 32 47 71 105 160		1/2 E-T
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	0,0002 0,0003 0,0005 0,0007 0,0011 0,0017 0,0026 0,0039 0,0058 0,0088 0,0088 0,0131 0,0137 0,0255 0,0440 0,0655 0,0974 0,1438 0,2108 0,3058 0,4358	100 100 100 100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000647 0,00098 0,001478 0,002225 0,003346 0,005023 0,007533 0,011285 0,015885 0,025218 0,037572 0,055781 0,082394 0,125205 0,125205	0 0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 E-R	0,0002 0,0003 0,0004 0,0015 0,0015 0,0013 0,0034 0,0052 0,0077 0,0115 0,0174 0,0250 0,0389 0,0580 0,0861 0,1274 0,1274 0,1870 0,2717 0,3891	100 100 100 100 100 100 100 100 100 100	0,0001 0,000245 0,000376 0,000375 0,000375 0,001306 0,001366 0,001366 0,002955 0,004437 0,006655 0,009971 0,01492 0,02229 0,03225 0,049359 0,072974 0,107129 0,155669 0,222911	0 0 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239		1/2 E-T
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0,0002 0,0003 0,0005 0,0007 0,0011 0,0017 0,0026 0,0039 0,0058 0,0088 0,0131 0,0197 0,0295 0,0440 0,0656 0,0974 0,1438 0,2108 0,3058 0,4358 0,4358 0,5107	100 100 100 100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000647 0,00098 0,001478 0,002226 0,003345 0,005023 0,007533 0,007533 0,001285 0,015885 0,015885 0,0125218 0,037572 0,055781 0,082394 0,120799 0,175205 0,250245 0,250245	0 0 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 E-R	0,0002 0,0003 0,0004 0,0007 0,0010 0,0015 0,0023 0,0034 0,0052 0,0077 0,0115 0,0174 0,0260 0,0389 0,0580 0,0861 0,1274 0,1274 0,1277 0,3891 0,5458	100 100 100 100 100 100 100 100 100 100	0,0001 0,000245 0,000376 0,000376 0,000376 0,001306 0,001366 0,001366 0,002955 0,004437 0,006655 0,004971 0,01492 0,02229 0,033225 0,043359 0,072974 0,107129 0,155669 0,222911 0,312706	0 0 1 1 2 3 4 5 9 14 21 32 47 71 106 150 239 359		1/2 Е-Т
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	0,0002 0,0003 0,0005 0,0007 0,0011 0,0017 0,0026 0,0039 0,0058 0,0088 0,0131 0,0137 0,0295 0,0440 0,0555 0,0974 0,0455 0,0974 0,1438 0,2108 0,3058 0,3058 0,3058 0,4358 0,5107 0,8296	100 100 100 100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000647 0,00098 0,001478 0,002226 0,003345 0,005023 0,007533 0,011286 0,007533 0,011286 0,015885 0,025218 0,037572 0,055781 0,082394 0,120799 0,175205 0,250245 0,349874 0,475287	0 0 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539		1/2 E-R	0,0002 0,0003 0,0004 0,0007 0,0015 0,0023 0,0034 0,0052 0,0077 0,0116 0,0174 0,0250 0,0389 0,0580 0,0861 0,1274 0,1870 0,2717 0,3891 0,5458 0,7445	100 100 100 100 100 100 100 100 100 100	0,0001 0,000245 0,000376 0,000375 0,000375 0,001306 0,001366 0,001365 0,002955 0,004437 0,006655 0,004937 0,00492 0,033225 0,049359 0,0722974 0,107129 0,155669 0,222911 0,155669 0,222911 0,155669 0,222911	0 0 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539		1/2 E-T
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	0,0002 0,0003 0,0005 0,0007 0,0011 0,0017 0,0026 0,0039 0,0058 0,0088 0,0131 0,0137 0,0295 0,0440 0,0555 0,0974 0,0455 0,0974 0,1438 0,2108 0,3058 0,3058 0,3058 0,4358 0,5107 0,8296	100 100 100 100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000647 0,00098 0,001478 0,002226 0,003345 0,005023 0,007533 0,011286 0,007533 0,011286 0,015885 0,025218 0,037572 0,055781 0,082394 0,120799 0,175205 0,250245 0,349874 0,475287	0 0 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539		1/2 E-R	0,0002 0,0003 0,0004 0,0007 0,0015 0,0023 0,0034 0,0052 0,0077 0,0116 0,0174 0,0250 0,0389 0,0580 0,0861 0,1274 0,1870 0,2717 0,3891 0,5458 0,7445	100 100 100 100 100 100 100 100 100 100	0,0001 0,000245 0,000376 0,000375 0,000375 0,001306 0,001366 0,001365 0,002955 0,004437 0,006655 0,004937 0,00492 0,033225 0,049359 0,0722974 0,107129 0,155669 0,222911 0,155669 0,222911 0,155669 0,222911	0 0 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539		1/2E-T
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	0,0002 0,0003 0,0005 0,0007 0,0011 0,0017 0,0026 0,0039 0,0058 0,0088 0,0131 0,0197 0,0295 0,0440 0,0656 0,0974 0,1438 0,2108 0,3058 0,4368 0,4368 0,6107 0,8296 1,0859	100 100 100 100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000647 0,00098 0,001478 0,002226 0,003345 0,005023 0,007533 0,011286 0,005023 0,007533 0,011285 0,025218 0,037572 0,055781 0,082394 0,120799 0,175205 0,250246 0,349874 0,475287 0,522168	0 0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 9359 539 808		1/2 E-R	0,0002 0,0003 0,0004 0,0010 0,0015 0,0023 0,0034 0,0052 0,0077 0,0116 0,0174 0,0250 0,0389 0,0580 0,0861 0,1274 0,1274 0,1274 0,1277 0,2891 0,5458 0,9794	100 100 100 100 100 100 100 100 100 100	0,0001 0,000245 0,000376 0,000376 0,000376 0,001306 0,001306 0,001366 0,00255 0,004437 0,006555 0,004437 0,00492 0,02229 0,033225 0,049359 0,072974 0,1072974 0,1072974 0,125669 0,222911 0,312706 0,426579 0,56112	0 0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 808		1/2 Е-Т
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	0,0002 0,0003 0,0005 0,0007 0,0011 0,0017 0,0026 0,0039 0,0058 0,0068 0,0131 0,0197 0,0295 0,0440 0,0555 0,0974 0,1438 0,2108 0,3058 0,4358 0,4358 0,4358 0,4359 1,3593	100 100 100 100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000647 0,00098 0,001478 0,002225 0,003346 0,005023 0,007533 0,007533 0,011285 0,015885 0,025218 0,025781 0,082394 0,127592 0,157521 0,025245 0,250245 0,250245 0,349874 0,475287 0,522188 0,778762	0 0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 808 1212		1/2 E-R	0,0002 0,0003 0,0004 0,0015 0,0013 0,0023 0,0034 0,0052 0,0077 0,0116 0,0174 0,0250 0,0389 0,0580 0,0861 0,1274 0,1274 0,1870 0,2717 0,3891 0,5458 0,7745 0,9794 1,2322	100 100 100 100 100 100 100 100 100 100	0,0001 0,000245 0,000376 0,000375 0,000375 0,001306 0,001306 0,001395 0,002955 0,004437 0,0049371 0,01492 0,02229 0,03225 0,072974 0,072974 0,155669 0,222911 0,312706 0,426579 0,05957	0 0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 808 1212		1/2 E-T
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	0,0002 0,0003 0,0007 0,0011 0,0017 0,0026 0,0039 0,0058 0,0088 0,0131 0,0197 0,0295 0,0440 0,0656 0,0974 0,1438 0,2108 0,3058 0,4358 0,5107 0,8296 1,0859 1,3593 1,5192	100 100 100 100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000647 0,00058 0,001478 0,002226 0,003345 0,005023 0,007533 0,007533 0,001286 0,015885 0,0125218 0,037572 0,055781 0,082394 0,120799 0,175205 0,250245 0,25025 0,250245 0,25025 0,250245 0,25025 0,250245 0,25025 0,2505 0,25025 0,25050000000000	0 0 0 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539 808 81212 1818	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 E-R	0,0002 0,0003 0,0004 0,0007 0,0010 0,0015 0,0023 0,0034 0,0052 0,0077 0,0115 0,0174 0,0260 0,0389 0,0260 0,0389 0,0260 0,0389 0,0250 0,0389 0,0250 0,0389 0,0250 0,02717 0,3891 0,5458 0,7445 0,9794 1,2322 1,4750	100 100 100 100 100 100 100 100 100 100	0,0001 0,000245 0,000376 0,000376 0,000376 0,001306 0,001366 0,001366 0,002955 0,004437 0,006655 0,004971 0,01492 0,02229 0,03225 0,049359 0,072974 0,107129 0,155669 0,222911 0,312706 0,426579 0,56112 0,705957 0,845045	0 0 1 1 2 3 4 5 9 14 21 32 47 71 106 150 239 359 539 808 2212 1818	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 E-T
2,2610         100         1,295237         9204         3         2,1023         100         1,204335         9204         3           2,4037         100         1,376936         13806         4         2,5528         100         1,204335         9204         3           2,4037         100         1,376936         13806         4         2,5528         100         1,2053         13806         4           2,5767         100         1,476002         20709         6         2,4365         100         1,395736         20709         6           2,7780         100         1,591256         31054         9         2,6506         100         1,518309         31054         9           2,9927         100         1,714191         46595         13         2,8790         100         1,649101         46595         13           3,1954         100         1,830802         69893         19         3,0958         100         1,773202         69893         19           3,3525         100         1,925815         104840         29         3,2725         100         1,874347         104840         29           3,4744         100         1,98989	0,0002 0,0003 0,0005 0,0007 0,0011 0,0017 0,0026 0,0039 0,0058 0,0088 0,0131 0,0137 0,0295 0,0440 0,0655 0,0974 0,0455 0,0974 0,1438 0,2108 0,3058 0,4368 0,4368 0,4368 0,45107 0,8296 1,0859 1,3593 1,5192 1,8375	100 100 100 100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000647 0,00098 0,001478 0,002225 0,003345 0,005023 0,007533 0,011286 0,007533 0,011286 0,011885 0,025218 0,037572 0,055781 0,082394 0,120799 0,175205 0,250246 0,349874 0,475287 0,622168 0,927624 1,052697	0 0 0 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 E-R	0,0002 0,0003 0,0004 0,0007 0,0015 0,0023 0,0034 0,0052 0,0077 0,0115 0,0174 0,0250 0,0389 0,0250 0,0389 0,0250 0,0389 0,0250 0,0217 0,02174 0,1274 0,1274 0,1274 0,1274 0,2717 0,3891 0,5458 0,7445 0,9794 1,2322 1,4750 1,6814	100 100 100 100 100 100 100 100 100 100	0,0001 0,000245 0,000376 0,000375 0,000375 0,001306 0,001366 0,001365 0,002955 0,004437 0,006655 0,004937 0,00492 0,03225 0,049359 0,072291 0,07129 0,155669 0,222911 0,155669 0,222911 0,155659 0,222911 0,155659 0,222911 0,312706 0,426579 0,56112 0,705957 0,8454046 0,963298	0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 E-T
2,4037         100         1,376935         13805         4         2,2528         100         1,29053         13805         4           2,5767         100         1,476002         20709         6         2,4365         100         1,395736         20709         6           2,7780         100         1,591256         31064         9         2,6506         100         1,518309         31064         9           2,9927         100         1,714191         46596         13         2,8790         100         1,649101         46596         13           3,1964         100         1,830802         69893         19         3,0958         100         1,773202         69893         19           3,3625         100         1,925815         104840         29         3,2725         100         1,874347         104840         29           3,4744         100         1,98989         157260         44         3,3918         100         1,942591         157260         44           3,5343         100         2,038113         353835         98         3,4815         100         1,993982         353835         98           3,5587         100         2,03	0,0002 0,0003 0,0005 0,0007 0,0011 0,0017 0,0026 0,0039 0,0058 0,0039 0,0058 0,0039 0,0058 0,0131 0,0197 0,0225 0,0440 0,0555 0,0974 0,1438 0,2108 0,3058 0,4368 0,437 0,440 0,4555 0,440 0,4556 0,440 0,4556 0,440 0,4558 0,440 0,4558 0,440 0,4558 0,440 0,4558 0,440 0,4558 0,440 0,4558 0,440 0,4558 0,440 0,4558 0,440 0,4558 0,440 0,4558 0,440 0,4558 0,440 0,4558 0,440 0,4558 0,440 0,440 0,4558 0,440 0,4558 0,440 0,4558 0,440 0,4558 0,440 0,4559 1,4568 0,440 0,4559 1,4568 0,440 0,4559 1,4568 0,440 0,4558 0,4408 0,4559 1,4569 1,45791,4579 1,45791,4579 1,4579 1,4579 1,45791,4579 1,4579 1,45791,4579 1,4579 1,4579 1,45791,4579 1,4579 1,45791,4579 1,4579 1,45791,4579 1,4579 1,45791,4579 1,4579 1,4579 1,45791,4579 1,4579 1,45791,4579 1,4579 1,45791,4579 1,4579	100 100 100 100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000647 0,00098 0,001478 0,002226 0,003346 0,005023 0,007533 0,011286 0,005023 0,007533 0,011286 0,015885 0,025218 0,037572 0,055781 0,082394 0,120799 0,175205 0,250246 0,349874 0,475287 0,622168 0,778752 0,927624 1,052697 1,148575	0 0 0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 E-R	0,0002 0,0003 0,0004 0,0007 0,0015 0,0023 0,0034 0,0052 0,0077 0,0115 0,0174 0,0250 0,0389 0,0580 0,0861 0,1274 0,1274 0,8891 0,2717 0,3891 0,5458 0,7445 0,9794 1,2322 1,4750 1,6814 1,8427	100 100 100 100 100 100 100 100 100 100	0,0001 0,000245 0,000376 0,000376 0,000376 0,001306 0,001306 0,001306 0,00255 0,004437 0,006555 0,009971 0,01492 0,02229 0,033225 0,049359 0,0722974 0,107129 0,155669 0,222511 0,312706 0,426579 0,56112 0,705957 0,845046 0,963298 1,055658	0 0 0 1 1 1 2 3 4 6 9 14 21 32 47 71 105 150 239 359 539 808 1212 1818 2727 4091	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 E-T
2,5767         100         1,476002         20709         6         2,4365         100         1,395736         20709         6           2,7780         100         1,591256         31064         9         2,6506         100         1,518309         31064         9           2,9927         100         1,714191         46596         13         2,8790         100         1,649101         46596         13           3,1964         100         1,830802         69893         19         3,0958         100         1,773202         69893         19           3,3625         100         1,89589         157260         44         3,918         100         1,942591         157260         44           3,5343         100         2,024156         235890         66         3,4556         100         1,979108         235890         66           3,5587         100         2,038113         353835         98         3,4816         100         1,993982         353835         98	0,0002 0,0003 0,0005 0,0007 0,0011 0,0017 0,0026 0,0039 0,0058 0,0088 0,0131 0,0197 0,0295 0,0440 0,0555 0,0974 0,1438 0,2108 0,3058 0,4358 0,440 0,4358 0,4358 0,4358 0,4358 0,4358 0,440 0,4358 0,4400 0,4559 0,4400 0,4559 0,4400 0,4559 0,4400 0,4559 0,4400 0,4558 0,4559 0,4400 0,4558 0,4559 0,4559 0,4559 0,4400 0,4558 0,45590,4550 0,4559 0,45590,4550 0,4550000000000	100 100 100 100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000647 0,00098 0,001478 0,0005023 0,007533 0,007533 0,007533 0,007533 0,011286 0,007533 0,011286 0,025218 0,037572 0,055781 0,082394 0,127505 0,250246 0,349874 0,475287 0,522158 0,778762 0,927624 1,052697 1,223932	0 0 0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 539 539 808 1212 1818 2727 4091 6135	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2E-R	0,0002 0,0003 0,0004 0,0007 0,0015 0,0023 0,0034 0,0052 0,0077 0,0116 0,0174 0,0250 0,0389 0,0580 0,0861 0,1274 0,1870 0,2177 0,3891 0,5458 0,7445 0,9794 1,2322 1,4750 1,6814 1,5414 1,5427	100 100 100 100 100 100 100 100 100 100	0,0001 0,000245 0,000376 0,000376 0,000376 0,001306 0,001396 0,002955 0,004337 0,006655 0,009371 0,01492 0,02229 0,03225 0,049359 0,072974 0,155669 0,222911 0,312706 0,426579 0,55112 0,705957 0,845046 0,963298 1,130665	0 0 0 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091 6136	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 E-T
2,5767         100         1,476002         20709         6         2,4365         100         1,395736         20709         6           2,7780         100         1,591256         31064         9         2,6506         100         1,518309         31064         9           2,9927         100         1,714191         46596         13         2,8790         100         1,649101         46596         13           3,1964         100         1,830802         69893         19         3,0958         100         1,773202         69893         19           3,3625         100         1,89589         157260         44         3,918         100         1,942591         157260         44           3,5343         100         2,024156         235890         66         3,4556         100         1,979108         235890         66           3,5587         100         2,038113         353835         98         3,4816         100         1,993982         353835         98	0,0002 0,0003 0,0005 0,0007 0,0011 0,0017 0,0026 0,0039 0,0058 0,0088 0,0131 0,0197 0,0295 0,0440 0,0555 0,0974 0,1438 0,2108 0,3058 0,4358 0,440 0,4358 0,4358 0,4358 0,4358 0,4358 0,440 0,4358 0,4400 0,4559 0,4400 0,4559 0,4400 0,4559 0,4400 0,4559 0,4400 0,4558 0,4559 0,4400 0,4558 0,4559 0,4559 0,4559 0,4400 0,4558 0,45590,4550 0,4559 0,45590,4550 0,4550000000000	100 100 100 100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000647 0,00098 0,001478 0,0005023 0,007533 0,007533 0,007533 0,007533 0,011286 0,007533 0,011286 0,025218 0,037572 0,055781 0,082394 0,127505 0,250246 0,349874 0,475287 0,522158 0,778762 0,927624 1,052697 1,223932	0 0 0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 539 539 808 1212 1818 2727 4091 6135	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 E-R	0,0002 0,0003 0,0004 0,0007 0,0015 0,0023 0,0034 0,0052 0,0077 0,0116 0,0174 0,0250 0,0389 0,0580 0,0861 0,1274 0,1870 0,2177 0,3891 0,5458 0,7445 0,9794 1,2322 1,4750 1,6814 1,5414 1,5427	100 100 100 100 100 100 100 100 100 100	0,0001 0,000245 0,000376 0,000376 0,000376 0,001306 0,001396 0,002955 0,004337 0,006655 0,009371 0,01492 0,02229 0,03225 0,049359 0,072974 0,155669 0,222911 0,312706 0,426579 0,55112 0,705957 0,845046 0,963298 1,130665	0 0 0 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091 6136	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 E-T
2,7780         100         1,591256         31064         9         2,6506         100         1,518309         31064         9           2,9927         100         1,714191         46596         13         2,8790         100         1,649101         46596         13           3,1964         100         1,830802         69893         19         3,0958         100         1,773202         69893         19           3,625         100         1,925815         104840         29         3,2725         100         1,874347         104840         29           3,4744         100         1,98989         157260         44         3,9318         100         1,942591         157260         44           3,5343         100         2,038113         353835         98         3,4815         100         1,993082         353835         98	0,0002 0,0003 0,0005 0,0007 0,0011 0,0017 0,0026 0,0039 0,0058 0,0068 0,0131 0,0197 0,0295 0,0440 0,0656 0,0974 0,1438 0,2108 0,3058 0,4358 0,5107 0,8296 1,0859 1,3593 1,6192 1,8375 2,0049 2,1365 2,2610	100 100 100 100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000647 0,00058 0,001478 0,002226 0,003345 0,005023 0,007533 0,0015885 0,015985 0,017852 0,250245 0,250245 0,250245 0,250245 0,277624 1,052697 1,148575 1,223932 1,295237	0 0 0 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091 6135 9204	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 E-R	0,0002 0,0003 0,0004 0,0007 0,0015 0,0023 0,0034 0,0052 0,0077 0,0115 0,0174 0,0260 0,0389 0,0260 0,0389 0,0260 0,0389 0,0260 0,0389 0,02717 0,3891 0,2717 0,3891 0,5458 0,7445 0,9794 1,2322 1,4750 1,6814 1,8427 1,9736 2,1023	100 100 100 100 100 100 100 100 100 100	0,0001 0,000245 0,000376 0,000376 0,000376 0,001306 0,001366 0,001366 0,002955 0,00437 0,00432 0,002957 0,01492 0,02229 0,03225 0,043359 0,072974 0,107129 0,155669 0,426579 0,426579 0,56112 0,705558 0,845045 0,963298 1,055658 1,204335	0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 150 239 359 539 808 1212 1818 2727 4091 6135 9204	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 E-T
2,9927         100         1,714191         45595         13         2,8790         100         1,649101         45596         13           3,1954         100         1,830802         69893         19         3,0958         100         1,773202         69893         19           3,3625         100         1,925815         104840         29         3,2725         100         1,874347         104840         29           3,4744         100         1,98989         157260         44         3,3918         100         1,942591         157260         44           3,5343         100         2,034155         235890         65         3,4555         100         1,979108         235890         65           3,5587         100         2,038113         353835         98         3,4815         100         1,993982         353835         98	0,0002 0,0003 0,0005 0,0007 0,0011 0,0017 0,0026 0,0039 0,0058 0,0088 0,0131 0,0137 0,0295 0,0440 0,0655 0,0974 0,0450 0,0655 0,0974 0,1438 0,2108 0,3058 0,4368 0,4368 0,4368 0,4368 0,4368 0,4368 0,4368 0,4368 0,4368 0,4368 0,4368 0,4359 1,3593 1,5192 1,8375 2,0049 2,1365 2,2510 2,4037	100 100 100 100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000647 0,00098 0,001478 0,002226 0,003345 0,005023 0,007533 0,007533 0,011286 0,016885 0,025218 0,037572 0,055781 0,082394 0,120799 0,175205 0,250246 0,349874 0,475287 0,522168 0,778762 0,927624 1,052697 1,148575 1,223932 1,255237 1,255237	0 0 0 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091 6135 9204 13806	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2E-R	0,0002 0,0003 0,0004 0,0007 0,0015 0,0023 0,0034 0,0052 0,0077 0,0115 0,0174 0,0250 0,0389 0,0580 0,0250 0,0389 0,0580 0,02717 0,3891 0,5458 0,7445 0,9794 1,2322 1,4750 1,6814 1,8427 1,9735 2,1023 2,2528	100 100 100 100 100 100 100 100 100 100	0,0001 0,000245 0,000376 0,000375 0,000375 0,001306 0,001366 0,001395 0,002955 0,004437 0,006555 0,004937 0,01492 0,02229 0,033225 0,049359 0,072974 0,107129 0,155669 0,222911 0,312706 0,426579 0,56112 0,705957 0,8454046 0,963298 1,105658 1,130665 1,204335 1,20053	0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091 6136 9204 13806	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 Е-Т
3,1964         100         1,830802         69893         19         3,0958         100         1,773202         69893         19           3,3625         100         1,925816         104840         29         3,2725         100         1,874347         104840         29           3,4744         100         1,98989         157260         44         3,3918         100         1,942591         157260         44           3,5434         100         2,024155         235890         66         3,4555         100         1,979108         235890         66           3,5587         100         2,038113         353835         98         3,4815         100         1,993982         353835         98	0,0002 0,0003 0,0005 0,0007 0,0011 0,0017 0,0026 0,0039 0,0058 0,0058 0,0039 0,0058 0,0056 0,0074 0,3058 0,3059 0,3059 0,3059 0,3059 0,3059 0,3059 0,3059 0,3059 0,3050000000000	100 100 100 100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000647 0,00098 0,001478 0,002226 0,003346 0,005023 0,007533 0,011286 0,007533 0,011286 0,015885 0,025218 0,037572 0,05781 0,082394 0,120799 0,175205 0,250245 0,349874 0,120799 0,175205 0,250245 0,349874 0,475287 0,622168 0,778752 0,927624 1,052697 1,148575 1,223932 1,295237 1,376936 1,476002	0 0 0 1 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091 6135 9204 13806 20709	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 E-R	0,0002 0,0003 0,0004 0,0007 0,0015 0,0023 0,0034 0,0052 0,0077 0,0115 0,0174 0,0250 0,0389 0,0380 0,0861 0,1274 0,1870 0,2717 0,3891 0,580 0,7445 0,7445 0,7445 0,7445 0,7445 0,7445 0,750 1,5814 1,8427 1,9736 2,1023 2,2528 2,4365	100 100 100 100 100 100 100 100 100 100	0,0001 0,000245 0,000376 0,000376 0,000376 0,001306 0,001306 0,001395 0,00255 0,004437 0,004935 0,003971 0,01492 0,02229 0,033225 0,049359 0,0722974 0,107129 0,155659 0,222911 0,155659 0,222911 0,155659 0,426579 0,56112 0,705357 0,845046 0,563298 1,130666 1,204335 1,29053 1,395736	0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091 6136 9204 13806 20709	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 E-T
3,3625         100         1,925815         104840         29         3,2725         100         1,874347         104840         29           3,4744         100         1,98989         157260         44         3,3918         100         1,942591         157260         44           3,5343         100         2,024156         235890         66         3,4556         100         1,979108         235890         66           3,5587         100         2,038113         353835         98         3,4816         100         1,993982         353835         98	0,0002 0,0003 0,0005 0,0007 0,0011 0,0017 0,0026 0,0039 0,0058 0,0088 0,0131 0,0197 0,0295 0,0440 0,0655 0,0974 0,1438 0,2108 0,0555 0,0974 0,1438 0,2108 0,3058 0,4357 0,2555 0,440 0,4358 0,4357 0,2757 0,2757 0,2757 0,2757 0,2757 0,2757 0,2757 0,27577 0,27577 0,27577 0,27577 0,275777 0,275777 0,2757777780	100 100 100 100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000647 0,00058 0,001478 0,0005023 0,007533 0,007533 0,007533 0,007533 0,011286 0,007533 0,011286 0,025218 0,037572 0,025218 0,250245 0,349874 0,475287 0,522158 0,778762 0,527624 1,052697 1,245287 1,229322 1,255237 1,376936	0 0 0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091 6136 9204 13806 220709 31064	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<u>1/2 E-R</u>	0,0002 0,0003 0,0004 0,0015 0,0015 0,0023 0,0034 0,0052 0,0077 0,0116 0,0174 0,0250 0,0389 0,0861 0,1274 0,1870 0,2717 0,3891 0,5458 0,7745 0,5794 1,2322 1,4750 1,6814 1,2427 1,9736 2,1023 2,2528 2,24365 2,6506	100 100 100 100 100 100 100 100 100 100	0,0001 0,000245 0,000376 0,000376 0,000376 0,001306 0,001396 0,002955 0,004377 0,006655 0,002957 0,00437 0,01492 0,03225 0,043359 0,072974 0,107129 0,157669 0,222911 0,312706 0,426579 0,56112 0,705957 0,845046 0,963298 1,055658 1,130666 1,204335 1,29053 1,29053 1,295736 1,518309	0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091 6136 9204 13806 520709 31064	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 E-T
3,4744         100         1,98989         157260         44         3,3918         100         1,942591         157260         44           3,5343         100         2,024156         235890         66         3,4556         100         1,979108         235890         66           3,5587         100         2,038113         353835         98         3,4816         100         1,993982         353835         98	0,0002 0,0003 0,0005 0,0007 0,0011 0,0017 0,0026 0,0039 0,0058 0,0088 0,0131 0,0197 0,0295 0,0440 0,0656 0,0974 0,1438 0,2108 0,3058 0,4358 0,5107 0,8296 1,0859 1,3593 1,6192 1,8375 2,0049 2,1365 2,2610 2,4037 2,5767 2,57780 2,9927	100 100 100 100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000647 0,00058 0,001478 0,002226 0,003345 0,005023 0,007533 0,001286 0,015885 0,0125218 0,015885 0,025218 0,037572 0,055781 0,082394 0,120799 0,175205 0,250245 0,277522 0,275225 0,275225 0,774191	0 0 0 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091 6136 9204 13806 20709 31064 46596	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2E-R	0,0002 0,0003 0,0004 0,0007 0,0015 0,0023 0,0034 0,0052 0,0077 0,0115 0,0174 0,0250 0,0389 0,0250 0,0389 0,0250 0,0389 0,0250 0,0389 0,0250 0,0389 0,0250 0,0389 0,0250 0,0389 0,02717 0,3891 0,5458 0,7445 0,2717 0,3891 0,5458 0,7445 0,2717 0,3891 1,5458 0,7445 0,2717 0,3891 1,5458 0,2717 0,3891 0,5458 0,2717 0,3891 0,5458 0,2717 0,3891 0,5458 0,2717 0,3891 0,5458 0,2717 0,3891 0,5458 0,2717 0,2891 0,2717 0,3891 0,2717 0,2717 0,3891 0,2717 0,2550 0,2717 0,2717 0,2550 0,2717 0,2550 0,2717 0,2550 0,2717 0,2550 0,2717 0,2550 0,2717 0,2550 0,2717 0,2550 0,2717 0,2550 0,2717 0,2550 0,2750 0,2550 0,2550 0,25500 0,25500	100 100 100 100 100 100 100 100 100 100	0,0001 0,000245 0,000376 0,000376 0,000376 0,001306 0,001366 0,001395 0,002955 0,004337 0,004937 0,01492 0,02229 0,03225 0,043359 0,072974 0,107129 0,155669 0,426579 0,426579 0,426579 0,426579 0,56112 0,703557 0,845045 0,963298 1,055658 1,2005357 1,29053 1,29053 1,395736	0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 150 239 359 539 808 1212 1818 2727 4091 6135 9204 13806 20709 31064 45596	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 Е-Т
3,4744         100         1,98989         157260         44         3,3918         100         1,942591         157260         44           3,5343         100         2,024156         235890         66         3,4556         100         1,979108         235890         66           3,5587         100         2,038113         353835         98         3,4816         100         1,993982         353835         98	0,0002 0,0003 0,0005 0,0007 0,0011 0,0017 0,0026 0,0039 0,0058 0,0088 0,0131 0,0197 0,0295 0,0440 0,0656 0,0974 0,1438 0,2108 0,3058 0,4358 0,5107 0,8296 1,0859 1,3593 1,6192 1,8375 2,0049 2,1365 2,2610 2,4037 2,5767 2,57780 2,9927	100 100 100 100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000647 0,00058 0,001478 0,002226 0,003345 0,005023 0,007533 0,001286 0,015885 0,0125218 0,015885 0,025218 0,037572 0,055781 0,082394 0,120799 0,175205 0,250245 0,277522 0,275225 0,275225 0,774191	0 0 0 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091 6136 9204 13806 20709 31064 46596	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 E-R	0,0002 0,0003 0,0004 0,0007 0,0015 0,0023 0,0034 0,0052 0,0077 0,0115 0,0174 0,0250 0,0389 0,0250 0,0389 0,0250 0,0389 0,0250 0,0389 0,0250 0,0389 0,0250 0,0389 0,0250 0,0389 0,02717 0,3891 0,5458 0,7445 0,2717 0,3891 0,5458 0,7445 0,2717 0,3891 1,5458 0,7445 0,2717 0,3891 1,5458 0,2717 0,3891 0,5458 0,2717 0,3891 0,5458 0,2717 0,3891 0,5458 0,2717 0,3891 0,5458 0,2717 0,3891 0,5458 0,2717 0,2891 0,2717 0,3891 0,2717 0,2717 0,3891 0,2717 0,2550 0,2717 0,2717 0,2550 0,2717 0,2550 0,2717 0,2550 0,2717 0,2550 0,2717 0,2550 0,2717 0,2550 0,2717 0,2550 0,2717 0,2550 0,2717 0,2550 0,2750 0,2550 0,2550 0,25500 0,25500	100 100 100 100 100 100 100 100 100 100	0,0001 0,000245 0,000376 0,000376 0,000376 0,001306 0,001366 0,001395 0,002955 0,004337 0,004937 0,01492 0,02229 0,03225 0,043359 0,072974 0,107129 0,155669 0,426579 0,426579 0,426579 0,426579 0,56112 0,703557 0,845045 0,963298 1,055658 1,2005357 1,29053 1,29053 1,395736	0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 150 239 359 539 808 1212 1818 2727 4091 6135 9204 13806 20709 31064 45596	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 E-T
3,5343         100         2,024156         235890         66         3,4556         100         1,979108         235890         66           3,5587         100         2,038113         353835         98         3,4816         100         1,993982         353835         98	0,0002 0,0003 0,0005 0,0007 0,0011 0,0017 0,0026 0,0039 0,0058 0,0088 0,0088 0,0131 0,0137 0,0295 0,0440 0,0655 0,0974 0,1438 0,2108 0,3058 0,4368 0,4368 0,4368 0,4368 0,4368 0,4368 0,4368 0,4368 0,4368 0,4368 0,4368 0,4368 0,4368 0,4368 0,4368 0,4368 0,4368 0,4368 0,4368 0,4359 1,6192 1,8375 2,0049 2,1365 2,2510 2,4037 2,5767 2,7780 2,9780 2,9784	100 100 100 100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000475 0,00088 0,001478 0,002226 0,003345 0,005023 0,007533 0,011286 0,007533 0,011286 0,011885 0,0252188 0,035781 0,082394 0,120799 0,175205 0,250246 0,349874 0,475287 0,250246 0,349874 0,475287 0,522168 0,778762 0,927624 1,052697 1,148575 1,223932 1,255237 1,376936 1,476002 1,591256 1,476002 1,591256	0 0 0 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091 6136 9204 13806 20709 31064 46596 69893	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<u>1/2E-R</u>	0,0002 0,0003 0,0004 0,0007 0,0015 0,0023 0,0034 0,0052 0,0077 0,0115 0,0174 0,0250 0,0389 0,0861 0,1274 0,1870 0,2717 0,3891 0,5458 0,7445 0,9754 1,2322 1,4750 1,6814 1,8427 1,9736 2,1023 2,2528 2,4365 2,6506 2,8790 3,0958	100 100 100 100 100 100 100 100 100 100	0,0001 0,000245 0,000376 0,000375 0,000375 0,001306 0,001366 0,001395 0,002955 0,004437 0,006555 0,004937 0,01492 0,02229 0,03225 0,049359 0,072374 0,107129 0,15569 0,222911 0,312706 0,426579 0,556112 0,705957 0,8454046 0,963298 1,105658 1,306568 1,306568 1,306568 1,306568 1,204335 1,29053 1,395736 1,518309 1,549101 1,773202	0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091 6136 9204 13806 20709 31064 45556 69893	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 Е-Т
3,5587 100 2,038113 353835 98 3,4816 100 1,993982 353835 98	0,0002 0,0003 0,0005 0,0007 0,0011 0,0017 0,0026 0,0039 0,0058 0,0088 0,0131 0,0137 0,0295 0,0440 0,0655 0,0974 0,1438 0,2108 0,3058 0,4368 0,5107 0,8296 1,0859 1,3593 1,5192 1,8375 2,0049 2,1365 2,2610 2,4037 2,5767 2,7780 2,9927 3,1954 3,3525	100 100 100 100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000647 0,00098 0,001478 0,002226 0,003346 0,005023 0,007533 0,011286 0,007533 0,011286 0,015885 0,025218 0,037572 0,0575781 0,082394 0,120799 0,175205 0,250246 0,349874 0,475287 0,522168 0,778762 0,927624 1,052697 1,148575 1,223932 1,225237 1,375935 1,27935 2,27955 2,27955 2,27955 2,27955 2,279555 2,279555 2,279555 2,2795555 2,2795555555555555555555555555555	0 0 0 1 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091 6135 9204 13806 20709 31064 46596 69833 104840	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 E-R	0,0002 0,0003 0,0004 0,0007 0,0015 0,0023 0,0034 0,0052 0,0077 0,0115 0,0174 0,0250 0,0389 0,0389 0,0380 0,0861 0,0260 0,0389 0,0580 0,0861 0,1274 0,1870 0,2717 0,3891 0,5580 0,7445 0,9794 1,2322 1,4750 1,6514 1,8427 1,5735 2,1023 2,2528 2,4365 2,5506 2,8790 3,0958 3,2725	100 100 100 100 100 100 100 100 100 100	0,0001 0,000245 0,000376 0,000376 0,000376 0,001306 0,001366 0,001395 0,00255 0,004437 0,00492 0,00492 0,00492 0,0229 0,033225 0,049359 0,072974 0,105659 0,072974 0,155669 0,222911 0,155669 0,222911 0,155659 0,222911 0,155659 0,222911 0,312706 0,426579 0,56112 0,705357 0,845046 0,963298 1,130666 1,204335 1,29053 1,395736 1,518309 1,649101 1,773202 1,874347	0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091 6136 9204 13806 20709 31064 46596 69893 104840	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 Е-Т
	0,0002 0,0003 0,0005 0,0007 0,0011 0,0017 0,0026 0,0039 0,0058 0,0088 0,0131 0,0197 0,0295 0,0440 0,0556 0,0974 0,1438 0,2108 0,30556 0,0974 0,1438 0,2108 0,30556 1,0859 1,3593 1,6192 1,8375 2,0049 2,1365 2,2510 2,4037 2,5767 2,7780 2,9927 3,1964 3,3625 3,4744	100 100 100 100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000425 0,000475 0,00038 0,001478 0,005023 0,007533 0,007533 0,007533 0,011285 0,025218 0,037572 0,025218 0,037572 0,025218 0,037572 0,025218 0,037572 0,250245 0,25025 0,250245 0,25025 0,250245 0,25025 0,250245 0,25025 0,250245 0,250250000000000	0 0 0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091 6136 9204 13806 220709 31064 45596 69893 104840 157250	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 E-R	0,0002 0,0003 0,0004 0,0007 0,0015 0,0023 0,0034 0,0052 0,0077 0,0116 0,0174 0,0260 0,0389 0,0861 0,1274 0,1274 0,1870 0,2517 0,3891 0,5458 0,7445 0,75458 0,7445 1,6814 1,2322 1,4750 1,6814 1,2322 1,4750 1,6814 1,2322 1,4755 2,1023 2,2528 2,4365 2,5506 2,8790 3,0958 3,2725 3,3918	100 100 100 100 100 100 100 100 100 100	0,0001 0,000245 0,000376 0,000376 0,000376 0,001306 0,001396 0,002955 0,002955 0,004377 0,004037 0,01492 0,03225 0,043359 0,072974 0,10729 0,157669 0,222911 0,312706 0,426579 0,56112 0,705357 0,845046 0,963298 1,055658 1,130666 1,204335 1,29053 1,518309 1,543101 1,773202 1,874347 1,942591	0 0 0 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091 6136 9204 13806 20709 31064 46596 69893 1064840 157260	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 E-T
3,5659 100 2,042228 518400 144 3,4892 100 1,998377 518400 144	0,0002 0,0003 0,0005 0,0007 0,0011 0,0017 0,0026 0,0039 0,0058 0,0088 0,0088 0,0131 0,0197 0,0295 0,0440 0,0556 0,0974 0,1438 0,2108 0,0056 0,0974 0,1438 0,2108 0,3058 0,4358 0,6107 0,8296 1,0859 1,3593 1,6192 1,8375 2,0049 2,1365 2,2610 2,4037 2,5767 2,57767 2,57767 2,57767 2,57767 2,57767 2,57767 2,57767 2,57767 2,57767 2,57767 2,57767 2,57767 2,57767 2,5757 3,1954 3,3525 3,47744 3,5543	100 100 100 100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000647 0,00058 0,001478 0,002226 0,003345 0,00523 0,007533 0,001286 0,015885 0,0125218 0,015885 0,025218 0,037572 0,055781 0,082394 0,120799 0,175205 0,25024 0,25025 1,223932 1,255237 1,376936 1,476002 1,591255 1,714191 1,830802 1,925815 1,98899 2,024155	0 0 0 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091 6136 9204 13806 20709 31064 46596 69893 104840 157260 235890	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<u>1/2E-R</u>	0,0002 0,0003 0,0004 0,0007 0,0015 0,0023 0,0034 0,0052 0,0077 0,0115 0,0174 0,0250 0,0389 0,0250 0,0389 0,0250 0,0389 0,0250 0,0389 0,0250 0,0389 0,0250 0,0389 0,0250 0,0389 0,0250 0,0389 0,02717 0,3891 0,5458 0,7445 0,9794 1,2322 1,4750 1,6814 1,8427 1,9736 2,1023 2,2528 2,4365 2,5506 2,8790 3,0958 3,2725 3,3918 3,4555	100 100 100 100 100 100 100 100 100 100	0,0001 0,000245 0,000376 0,000376 0,000376 0,001306 0,001366 0,001395 0,002955 0,00437 0,00432 0,02229 0,03225 0,00492 0,02229 0,03225 0,049359 0,072974 0,107129 0,155669 0,426579 0,426579 0,426579 0,426579 0,56112 0,705558 1,29053 1,29053 1,29053 1,29053 1,29053 1,395736 1,518309 1,649101 1,773202 1,874347 1,942591 1,979108	0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 150 239 359 539 808 1212 1818 2727 4091 6136 9204 13806 20709 31064 45596 69893 104840 157260 235890	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 E-T
	0,0002 0,0003 0,0005 0,0007 0,0011 0,0017 0,0026 0,0039 0,0058 0,0088 0,0088 0,0131 0,0197 0,0295 0,0440 0,0656 0,0974 0,1438 0,2108 0,3058 0,4368 0,43068 0,43068 0,43068 0,43068 0,43068 0,43068 0,43058 1,6192 1,8375 2,0049 2,1365 2,2510 2,4037 2,5767 2,7780 2,5767 2,7780 2,9927 3,1964 3,3525 3,4744 3,5587	100 100 100 100 100 100 100 100 100 100	0,000113 0,000179 0,000278 0,000425 0,000475 0,00088 0,001478 0,002226 0,003345 0,005023 0,007533 0,011286 0,0055218 0,015885 0,0252188 0,035781 0,082394 0,120799 0,175205 0,250246 0,349874 0,475287 0,250246 0,349874 0,475287 0,250246 0,349874 0,475287 1,252158 1,052697 1,148575 1,223932 1,255237 1,376936 1,476002 1,591256 1,714191 1,830802 1,925815 1,928816 1,928816 1,928816 1,928816 2,038113	0 0 0 1 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091 6136 9204 13806 20709 31064 46596 69893 104840 157260 235890 353835	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0002 0,0003 0,0004 0,0007 0,0015 0,0023 0,0034 0,0052 0,0077 0,0115 0,0174 0,0260 0,0389 0,0580 0,0580 0,0280 0,0389 0,0580 0,2717 0,3891 0,2717 0,3891 0,5458 0,7445 0,7734 1,2322 1,4750 1,6814 1,8427 1,9736 2,1023 2,2528 2,4365 2,6506 2,8790 3,0958 3,2725 3,3918 3,4815	100 100 100 100 100 100 100 100 100 100	0,0001 0,000158 0,000375 0,000375 0,000375 0,001306 0,001366 0,001395 0,002955 0,00437 0,00655 0,004937 0,01492 0,02229 0,03225 0,049359 0,072974 0,107129 0,155659 0,222911 0,312706 0,426579 0,556112 0,705957 0,845046 0,963298 1,1056568 1,130666 1,204335 1,29053 1,395736 1,518309 1,549101 1,773202 1,874347 1,942591 1,979108 1,939382	0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091 6136 9204 13806 20709 31064 46556 69893 104840 157260 235890 353835	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 E-T

Discher 2		Twist [degree:	s] time [sec.]	time (h)	TWIST	Displ [mm]	a lana an lat	tine for a second			TWIST
Displ [mm]	1/2 Width				14151	Dispitining	1/2 Width	rist [degre	time [sec.]	time (h)	_
0,0001	100	6,99931E-05	0	0		0,0001	100	0,0001	0	0	
0,0002	100	0,000138902	0	0		0,0002	100	0,0001	0	0	
0,0005	100	0,000276697	0	0		0,0003	100	0,0002	0	0	
0,0008	100	0,000483339	1	0		0,0005	100	0,0003	0	0	
0,0014	100	0,000793185	1	0		0,0007	100	0,0004	0	0	
0,0022	100	0,0012577	1	0		0,0011	100	0,0005	1	0	
0,0034	100	0,001953895	2	0		0,0015	100	0,0009	1	0	
0,0052	100	0,002996879	3	0		0,0025	100	0,0014	1	0	
0,0080	100	0,004558435	4	0		0,0037	100	0,0021	2	0	
		-									
0,0120	100	0,006894229	7	0		0,0055	100	0,0032	3	0	
0,0181	100	0,010383255	10	0		0,0084	100	0,0048	4	0	
0,0272	100	0,015584108	15	0		0,0125	100	0,0072	6	0	
0,0407	100	0,023312792	23	0		0,0189	100	0,0108	9	0	
0,0605	100	0,034745417	34	0		0,0282	100	0,0162	14	0	
0,0900	100	0,051543269	52	0		0,0422	100	0,0242	21	0	
0,1326	100	0,075981608	78	0		0,0628	100	0,0360	32	0	
0,1938	100	0,11103105	117	0	G-reference	0,0933	100	0,0535	47	0	1/2 G-L1
0,2798	100	0,160285098	175	0		0,1379	100	0,0790	71	0	
0,3972	100	0,227561597	263	0		0,2022	100	0,1159	105	0	
0,5515	100	0,315962395	394	0		0,2936	100	0,1682	160	0	
0,7441	100	0,426307683	591	0		0,4197	100	0,2405	239	0	
0,9691	100	0,555246903	887	0		0,5877	100	0,3367	359	0	
1,2114	100	0,694041395	1330	0		0,7997	100	0,4582	539	0	
1,4482	100	0,829688022	1995	1		1,0490	100	0,6010	808	ů 0	
1,6574	100	0,949556223	2993	1		1,3158	100	0,7539	1212	0	
1,8293	100	1,04801199	4489	1		1,5706	100	0,8998	1818	1	
1,9724	100	1,129961166	6734	2		1,7858	100	1,0231	2727	1	
2,1080	100	1,207610452	10100	3		1,9521	100	1,1183	4091	1	
2,2576	100	1,293301282	15151	4		2,0846	100	1,1942	6136	2	
-											
2,4333	100	1,393891686	22726	6		2,2120	100	1,2672	9204	3	
2,6334	100	1,508478423	34089	9		2,3594	100	1,3516	13806	4	
2,8428	100	1,628337234	51134	14		2,5387	100	1,4542	20709	6	
3,0367	100	1,739343516	76700	21		2,7474	100	1,5737	31064	9	
3,1902	100	1,827253141	115051	32		2,9701	100	1,7012	46596	13	
3,2903	100	1,884528887	172576	48		3,1814	100	1,8222	69893	19	
3,3418	100	1,914009524	258864	72		3,3537	100	1,9208	104840	29	
			388296	108		3,4700	100	1,9873	157260	44	
3,3620	100	1,92554739	300230								
		-				3.5322	100	2.0229	235890	bb	
3,3620 3,3675	100 100	1,92554739 1,928695095	518400	144		3,5322	100	2,0229	235890	66	
		-				3,5575	100	2,0375	353835	98	
		-									
3,3675	100	1,928595095	518400	144	h) TWIST	3,5575 3,5650	100 100	2,0375 2,0417	353835 518400	98 144	TWIST
3,3675 Displ [mm]	100 1/2 Width	1,928695095 ist [degre	518400 time [sec.]	144 time (l	h) TWIST	3,5575 3,5650 Displ [mm]	100 100 1/2 Width	2,0375 2,0417 ist [degree	353835 518400 time [sec.]	98 144 time (h)	TWIST
3,3675 Displ [mm] 0,0001	100 1/2 Width 100	1,928695095 ist [degre 7,93E-05	518400 time [sec.] 0	144 time (I	h) TWIST	3,5575 3,5650 Displ [mm] 0,0001	100 100 1/2 Width 100	2,0375 2,0417 ist [degre 7,7E-05	353835 518400 time [sec.] 0	98 144 time (h) 0	TWIST
3,3675 Displ [mm] 0,0001 0,0002	100 1/2 Width 100 100	1,928595095 ist [degre 7,93E-05 0,000129	518400 time [sec.] 0 0	144 time (I 0 0	h) TWIST	3,5575 3,5650 Displ [mm] 0,0001 0,0002	100 100 1/2 Width 100 100	2,0375 2,0417 ist [degre 7,7E-05 0,000125	353835 518400 time [sec.] 0 0	98 144 time (h) 0 0	TWIST
3,3675 Displ [mm] 0,0001	100 1/2 Width 100	1,928695095 ist [degre 7,93E-05	518400 time [sec.] 0	144 time (I	h) TWIST	3,5575 3,5650 Displ [mm] 0,0001	100 100 1/2 Width 100	2,0375 2,0417 ist [degre 7,7E-05	353835 518400 time [sec.] 0	98 144 time (h) 0	TWIST
3,3675 Displ [mm] 0,0001 0,0002	100 1/2 Width 100 100	1,928595095 ist [degre 7,93E-05 0,000129	518400 time [sec.] 0 0	144 time (I 0 0	h) TWIST	3,5575 3,5650 Displ [mm] 0,0001 0,0002	100 100 1/2 Width 100 100	2,0375 2,0417 ist [degre 7,7E-05 0,000125	353835 518400 time [sec.] 0 0	98 144 time (h) 0 0	TWIST
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0006	100 1/2 Width 100 100 100 100	1,928695095 ist [degre 7,93E-05 0,000129 0,000204 0,000317	518400 time [sec.] 0 0 0 0 0	144 time (1 0 0 0 0 0	h) TWIST	3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0005	100 100 1/2 Width 100 100 100 100	2,0375 2,0417 ist [degre 7,7E-05 0,000125 0,000199 0,000308	353835 518400 time [sec.] 0 0 0 0 0 0	98 144 0 0 0 0 0 0	TWIST
3,3675 Displ [mm]   0,0001 0,0002 0,0004 0,0006 0,0008	100 1/2 Width 100 100 100 100 100	1,928695095 ist [degre] 7,93E-05 0,000129 0,000204 0,000317 0,000486	518400 time [sec.] 0 0 0 0 0 0 0	144 time (I 0 0 0 0 0 0	h) TWIST	3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0005 0,0008	100 100 1/2 Width 100 100 100 100 100	2,0375 2,0417 ist [degre] 7,7E-05 0,000125 0,000199 0,000308 0,000472	353835 518400 time [sec.] 0 0 0 0 0 0 0 0	98 144 0 0 0 0 0 0 0 0 0 0	TWIST
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0005 0,0008 0,0008 0,0013	100 1/2 Width 100 100 100 100 100 100	1,928695095 ist [degre] 7,93E-05 0,000129 0,000204 0,000317 0,000485 0,00074	518400 time [sec.] 0 0 0 0 0 0 0 1	144	h) TWIST	3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0003 0,0005 0,0008 0,0013	100 100 1/2 Width 100 100 100 100 100 100	2,0375 2,0417 ist [degre] 7,7E-05 0,000125 0,000199 0,000308 0,000472 0,000718	353835 518400 time [sec.] 0 0 0 0 0 0 0 0 1	98 144 0 0 0 0 0 0 0 0 0 0 0	TWIST
3,3675 Displ [mm]   0,0001 0,0002 0,0004 0,0006 0,0008	100 1/2 Width 100 100 100 100 100	1,928695095 ist [degre] 7,93E-05 0,000129 0,000204 0,000317 0,000486	518400 time [sec.] 0 0 0 0 0 0 0	144 time (I 0 0 0 0 0 0	h) TWIST	3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0005 0,0008	100 100 1/2 Width 100 100 100 100 100	2,0375 2,0417 ist [degre] 7,7E-05 0,000125 0,000199 0,000308 0,000472	353835 518400 time [sec.] 0 0 0 0 0 0 0 0	98 144 0 0 0 0 0 0 0 0 0 0	TWIST
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0005 0,0008 0,0008 0,0013	100 1/2 Width 100 100 100 100 100 100	1,928695095 ist [degre] 7,93E-05 0,000129 0,000204 0,000317 0,000485 0,00074	518400 time [sec.] 0 0 0 0 0 0 0 1	144	h) TWIST	3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0003 0,0005 0,0008 0,0013	100 100 1/2 Width 100 100 100 100 100 100	2,0375 2,0417 ist [degre] 7,7E-05 0,000125 0,000199 0,000308 0,000472 0,000718	353835 518400 time [sec.] 0 0 0 0 0 0 0 0 1	98 144 0 0 0 0 0 0 0 0 0 0 0	TWIST
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0004 0,0005 0,0008 0,0013 0,0020 0,0029	100 1/2 Width 100 100 100 100 100 100 100 100	1,928695095	518400 time [sec.] 0 0 0 0 1 1 1 1 1	144 0 0 0 0 0 0 0 0 0 0 0 0 0 0	b) TWIST	3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0005 0,0008 0,0003 0,0008 0,0013 0,0019 0,0029	100 100 1/2 Width 100 100 100 100 100 100 100 100	2,0375 2,0417 ist [degre] 7,7E-05 0,000126 0,000126 0,0000472 0,000472 0,000472 0,0001087 0,001087	353835 5184000 0 0 0 0 0 0 1 1 1 1	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TWIST
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0006 0,0008 0,0003 0,0003 0,0029 0,0029 0,0044	100 1/2 Width 100 100 100 100 100 100 100 100	1,928695095 ist [degre] 7,93E-05 0,000129 0,000204 0,000317 0,000485 0,00074 0,00112 0,001589 0,002543	518400 time [sec.] 0 0 0 0 0 1 1 1 1 2	144 time (1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	b) TWIST	3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0005 0,0008 0,0013 0,0019 0,0029 0,0043	100 100 1/2 Width 100 100 100 100 100 100 100 100	2,0375 2,0417 ist [degre] 7,7E-05 0,000126 0,000126 0,000308 0,000472 0,000472 0,000718 0,000718 0,00164 0,00164	353835 518400 0 0 0 0 0 0 1 1 1 1 2	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TWIST
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0005 0,0008 0,0013 0,0020 0,0029 0,0024 0,0067	100 1/2 Width 100 100 100 100 100 100 100 100 100	1,928695095 ist[degre] 7,93E-05 0,000129 0,000204 0,0003017 0,000485 0,00074 0,00112 0,001689 0,002543 0,002543 0,003823	518400 time [sec.] 0 0 0 0 1 1 1 1 2 3	144 time (I 0 0 0 0 0 0 0 0 0 0 0 0 0	h) TWIST	3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0003 0,0008 0,0013 0,0019 0,0019 0,0029 0,0043 0,0065	100 100 1/2 Width 100 100 100 100 100 100 100 100 100	2,0375 2,0417 hst [degre] 7,7E-05 0,000126 0,000199 0,000308 0,000472 0,000718 0,001087 0,001087 0,00164 0,002459 0,003712	353835 5184000 0 0 0 0 1 1 1 2 3	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TWIST
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0005 0,0008 0,0013 0,0020 0,0029 0,0044 0,0067 0,0100	100 1/2 Width 100 100 100 100 100 100 100 10	1,928695095 ist [degre] 7,93E-05 0,000129 0,000204 0,000317 0,000486 0,00074 0,00112 0,001689 0,002543 0,002543 0,00574	518400 time [sec.] 0 0 0 0 0 1 1 1 1 2 3 3 4	144 time (1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	b) TWIST	3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0003 0,0005 0,0008 0,0013 0,0019 0,0029 0,0043 0,0005 0,0097	100 100 1/2 Width 100 100 100 100 100 100 100 100 100 10	2,0375 2,0417 ist [degre] 7,7E-05 0,000125 0,000125 0,000308 0,000472 0,000472 0,00164 0,001687 0,00164 0,002469 0,003712 0,005573	353835 518400 0 0 0 0 0 1 1 1 1 2 3 3 4	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TWIST
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0006 0,0008 0,0013 0,0020 0,0029 0,0044 0,0067 0,0100 0,0150	100 1/2 Width 100 100 100 100 100 100 100 10	1,928695095 ist[degre] 7,93E-05 0,000129 0,000204 0,000204 0,000317 0,000485 0,00074 0,00112 0,001689 0,002543 0,002543 0,003823	518400 time [sec.] 0 0 0 0 1 1 1 1 2 3	144 time (I 0 0 0 0 0 0 0 0 0 0 0 0 0	b) TWIST	3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0003 0,0008 0,0013 0,0019 0,0019 0,0029 0,0043 0,0065	100 100 1/2 Width 100 100 100 100 100 100 100 100 100	2,0375 2,0417 hst [degre] 7,7E-05 0,000126 0,000199 0,000308 0,000472 0,000718 0,001087 0,001087 0,00164 0,002459 0,003712	353835 5184000 0 0 0 0 1 1 1 2 3	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TWIST
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0005 0,0008 0,0013 0,0020 0,0029 0,0044 0,0067 0,0100	100 1/2 Width 100 100 100 100 100 100 100 10	1,928695095 ist [degre] 7,93E-05 0,000129 0,000204 0,000317 0,000486 0,00074 0,00112 0,001689 0,002543 0,002543 0,00574	518400 time [sec.] 0 0 0 0 0 1 1 1 1 2 3 3 4	144 time (1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	h) TWIST	3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0003 0,0005 0,0008 0,0013 0,0019 0,0029 0,0043 0,0005 0,0005 0,0097	100 100 1/2 Width 100 100 100 100 100 100 100 100 100 10	2,0375 2,0417 ist [degre] 7,7E-05 0,000125 0,000125 0,000308 0,000472 0,000472 0,00164 0,001687 0,00164 0,002469 0,003712 0,005573	353835 518400 0 0 0 0 0 1 1 1 1 2 3 3 4	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TWIST
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0006 0,0008 0,0013 0,0020 0,0029 0,0044 0,0067 0,0100 0,0150 0,0225	100 1/2 Width 100 100 100 100 100 100 100 10	1,928695095	518400 time [sec.] 0 0 0 0 1 1 1 1 2 3 4 5 9	144 time (I 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	b) TWIST	3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0005 0,0008 0,0013 0,0019 0,0029 0,0043 0,0065 0,0097 0,0146 0,0219	100 100 1/2 Width 100 100 100 100 100 100 100 100 100 10	2,0375 2,0417 ist [degre] 7,7E-05 0,000125 0,000125 0,000199 0,000308 0,000472 0,000472 0,000188 0,001087 0,00164 0,002469 0,003712 0,003573 0,008358 0,0012521	353835 5184000 0 0 0 0 1 1 1 1 2 3 3 4 5 9	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TWIST
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0006 0,0008 0,0013 0,0029 0,0029 0,0044 0,0067 0,0100 0,0150 0,0225 0,0337	100 1/2 Width 100 100 100 100 100 100 100 10	1,928695095 ist[degre] 7,99E-05 0,000129 0,000204 0,000317 0,000486 0,00074 0,00112 0,001889 0,002543 0,00574 0,008508 0,012296	518400 time [sec.] 0 0 0 0 0 1 1 1 1 2 3 4 5 9 9 14	144	b) TWIST	3,5575 3,5650 Displ [mm] 0,0002 0,0003 0,0005 0,0008 0,0013 0,0019 0,0029 0,0043 0,0005 0,00097 0,0146 0,0219 0,0327	100 100 1/2 Width 100 100 100 100 100 100 100 100 100 10	2,0375 2,0417 ist [degre] 7,7E-05 0,000125 0,000125 0,000472 0,000573 0,000573 0,000573 0,000573 0,000573 0,000573 0,000573 0,000573 0,000573	353835 5184000 0 0 0 0 1 1 1 2 3 4 5 9 14	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TWIST
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0006 0,0008 0,0013 0,0020 0,0029 0,0044 0,0067 0,0100 0,0150 0,0150 0,0225 0,0337 0,0503	100 1/2 Width 100 100 100 100 100 100 100 10	1,928695095 ist[degre] 7,93E-05 0,000129 0,000204 0,000317 0,000485 0,00074 0,00112 0,001689 0,002543 0,003823 0,00574 0,008508 0,012896 0,012896 0,012894 0,028819	518400 time [sec.] 0 0 0 0 1 1 1 2 3 4 5 9 14 21	144	h) TWIST	3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0003 0,0008 0,0013 0,0019 0,0029 0,0043 0,0055 0,0097 0,0146 0,0219 0,0327 0,0488	100 100 1/2 Width 100 100 100 100 100 100 100 100 100 10	2,0375 2,0417 ist [degre] 7,7E-05 0,000126 0,000199 0,000308 0,000472 0,001087 0,001087 0,00164 0,002459 0,0003712 0,0015573 0,008358 0,012521 0,012521 0,012521	353835 518400 0 0 0 0 1 1 1 2 3 4 6 9 14 21	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TWIST
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0006 0,0008 0,0013 0,0020 0,0029 0,0044 0,0067 0,0100 0,0150 0,0150 0,0225 0,0337 0,0503 0,0749	100 1/2 Width 100 100 100 100 100 100 100 10	1,928695095 ist [degre] 7,93E-05 0,000129 0,000204 0,000317 0,000485 0,00074 0,00112 0,001689 0,002543 0,000574 0,0008608 0,012896 0,012896 0,012894 0,012819 0,042942	518400 time [sec.] 0 0 0 0 1 1 1 2 3 4 6 9 14 21 32	144 time (1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0003 0,0005 0,0008 0,0013 0,0019 0,0029 0,0043 0,0065 0,0097 0,0146 0,0219 0,00327 0,04488 0,0728	100 100 1/2 Width 100 100 100 100 100 100 100 100 100 10	2,0375 2,0417 ist [degre] 7,7E-05 0,000125 0,000125 0,000308 0,000472 0,000472 0,000472 0,00164 0,001687 0,00164 0,002469 0,003573 0,008358 0,012521 0,018736 0,0125987 0,041708	353835 518400 0 0 0 0 1 1 1 1 2 3 3 4 5 9 4 5 9 14 21 32	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0006 0,0008 0,0013 0,0020 0,0029 0,0044 0,0067 0,0100 0,0150 0,0150 0,0225 0,0337 0,0503	100 1/2 Width 100 100 100 100 100 100 100 10	1,928695095 ist[degre] 7,93E-05 0,000129 0,000204 0,000317 0,000485 0,00074 0,00112 0,001689 0,002543 0,003823 0,00574 0,008508 0,012896 0,012896 0,012894 0,028819	518400 time [sec.] 0 0 0 0 1 1 1 2 3 4 5 9 14 21	144	b) TWIST	3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0003 0,0005 0,0008 0,0013 0,0019 0,0029 0,0043 0,0065 0,0097 0,0146 0,0219 0,00327 0,04488 0,0728	100 100 1/2 Width 100 100 100 100 100 100 100 100 100 10	2,0375 2,0417 ist [degre] 7,7E-05 0,000126 0,000199 0,000308 0,000472 0,001087 0,001087 0,00164 0,002459 0,0003712 0,0015573 0,008358 0,012521 0,012521 0,012521	353835 518400 0 0 0 0 1 1 1 2 3 4 6 9 14 21	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0006 0,0008 0,0013 0,0020 0,0029 0,0044 0,0067 0,0100 0,0150 0,0150 0,0225 0,0337 0,0503 0,0749	100 1/2 Width 100 100 100 100 100 100 100 10	1,928695095 ist [degre] 7,93E-05 0,000129 0,000204 0,000317 0,000485 0,00074 0,00112 0,001689 0,002543 0,000574 0,0008608 0,012896 0,012896 0,012894 0,012819 0,042942	518400 time [sec.] 0 0 0 0 1 1 1 2 3 4 6 9 14 21 32	144 time (1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0003 0,0005 0,0008 0,0013 0,0019 0,0029 0,0043 0,0065 0,0097 0,0146 0,0219 0,00327 0,04488 0,0728	100 100 1/2 Width 100 100 100 100 100 100 100 100 100 10	2,0375 2,0417 ist [degre] 7,7E-05 0,000125 0,000125 0,000308 0,000472 0,000472 0,000472 0,00164 0,001687 0,00164 0,002469 0,003573 0,008358 0,012521 0,018736 0,0125987 0,041708	353835 518400 0 0 0 0 1 1 1 1 2 3 3 4 5 9 4 5 9 14 21 32	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0005 0,0008 0,0013 0,0029 0,0029 0,0044 0,0067 0,0100 0,0150 0,0225 0,0337 0,0503 0,0749 0,1113 0,1644	100 1/2 Width 100 100 100 100 100 100 100 10	1,928695095 ist [degre] 7,93E-05 0,000129 0,000204 0,000317 0,000485 0,00074 0,00112 0,001589 0,002543 0,00374 0,008508 0,012895 0,012924 0,008608 0,012924 0,0063765 0,094209	518400 time [sec.] 0 0 0 0 1 1 1 1 1 2 3 4 6 9 14 6 9 14 2 1 32 47 71	144 time (1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0005 0,0008 0,0013 0,0019 0,0029 0,0043 0,0043 0,0065 0,0097 0,0146 0,0219 0,0327 0,0146 0,0229 0,0488 0,0728 0,1081 0,1598	100 100 1/2 Width 100 100 100 100 100 100 100 100 100 10	2,0375 2,0417 bit [degre] 7,7E-05 0,000125 0,000125 0,000125 0,000308 0,000472 0,000718 0,001087 0,00164 0,0003712 0,0003712 0,003573 0,008358 0,012521 0,018736 0,027987 0,041708 0,061945 0,091548	353835 518400 0 0 0 0 1 1 1 1 2 3 4 4 5 9 14 2 1 32 2 47 71	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TWIST
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0006 0,0003 0,0003 0,0029 0,0029 0,0044 0,0067 0,0100 0,0150 0,0225 0,0337 0,0503 0,0749 0,1113 0,1544 0,2412	100 1/2 Width 100 100 100 100 100 100 100 10	1,928695095 ist [degre] 7,99E-05 0,000129 0,000204 0,000317 0,000486 0,00074 0,00112 0,001889 0,002543 0,003243 0,00374 0,008608 0,012896 0,012896 0,012942 0,063765 0,094209 0,13817	518400 time [sec.] 0 0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 105	144 time (1 0 0 0 0 0 0 0 0 0 0 0 0 0		3,5575 3,5650 Displ [mm] 0,0002 0,0003 0,0005 0,0008 0,0013 0,0019 0,0029 0,0043 0,0019 0,0029 0,0043 0,0065 0,0097 0,0146 0,0219 0,0327 0,0146 0,0219 0,0327 0,0488 0,0728 0,1081 0,1558 0,2344	100 100 1/2 Width 100 100 100 100 100 100 100 100 100 10	2,0375 2,0417 ist [degre] 7,7E-05 0,000125 0,000199 0,000308 0,000472 0,000718 0,001087 0,00164 0,002469 0,003712 0,003573 0,003573 0,003573 0,008358 0,012521 0,018736 0,027987 0,041708 0,061945 0,061945 0,051548 0,134325	353835 518400 0 0 0 0 1 1 1 1 1 2 3 4 5 9 14 21 3 2 47 71 106	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0006 0,0008 0,0013 0,0029 0,0044 0,0067 0,0100 0,0150 0,0225 0,0337 0,0503 0,0749 0,1113 0,1644 0,2412 0,3499	100 1/2 Width 100 100 100 100 100 100 100 10	1,928695095 /st[degre] 7,93E-05 0,000129 0,000204 0,000317 0,000485 0,00074 0,00112 0,001889 0,002543 0,003823 0,00574 0,003823 0,00574 0,008608 0,012294 0,012294 0,028819 0,042942 0,063765 0,094209 0,13817 0,200499	518400 time [sec.] 0 0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 150	144 time (l 0 0 0 0 0 0 0 0 0 0 0 0 0		3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0003 0,0008 0,0013 0,0019 0,0029 0,0043 0,0055 0,0097 0,0146 0,0219 0,0327 0,0146 0,0219 0,0327 0,0488 0,0728 0,0488 0,0728 0,1081 0,1598 0,2344 0,3404	100 100 1/2 Width 100 100 100 100 100 100 100 100 100 10	2,0375 2,0417 ist [degre] 7,7E-05 0,000126 0,000199 0,000308 0,000472 0,000472 0,001087 0,00164 0,002459 0,003712 0,001545 0,003573 0,008358 0,012521 0,00125 0,00125 0,00125 0,00125 0,000199 0,000199 0,000199 0,000199 0,000199 0,000199 0,000199 0,000199 0,000199 0,000199 0,000199 0,000199 0,000199 0,000199 0,000199 0,0001087 0,0001087 0,0001087 0,0001087 0,0001087 0,000187 0,000187 0,000187 0,000187 0,000187 0,000187 0,000187 0,000187 0,000187 0,000187 0,000187 0,000187 0,000187 0,000187 0,000187 0,000187 0,000187 0,000573 0,00154 0,0027987 0,00154 0,0027987 0,00194 0,00194 0,00194 0,00154 0,00154 0,0027987 0,00154 0,0027987 0,00194 0,00194 0,0027987 0,00194 0,00194 0,0027987 0,00194 0,00000000000000000000000000000000000	353835 518400 0 0 0 0 1 1 1 2 3 4 6 9 14 21 32 47 14 21 32 47 71 105 160	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0005 0,0008 0,0013 0,0020 0,0029 0,0044 0,0067 0,0100 0,0150 0,0150 0,0225 0,0337 0,0503 0,0749 0,1113 0,1544 0,2412 0,3499 0,5002	100 1/2 Width 100 100 100 100 100 100 100 10	1,928695095 /st[degre 7,93E-05 0,000129 0,000204 0,000317 0,000485 0,00074 0,001689 0,002543 0,000574 0,008508 0,012896 0,012896 0,012896 0,012896 0,012896 0,012896 0,012896 0,012896 0,012896 0,012896 0,012896 0,012896 0,012896 0,012896 0,012896 0,012896 0,008508	518400 time [sec.] 0 0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 105 160 239	144 time (1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0005 0,0003 0,0029 0,0048 0,00219 0,0048 0,0028 0,0028 0,0048 0,0029 0,0048 0,0029 0,0048 0,00219 0,0048 0,0028 0,0028 0,0028 0,0028 0,0028 0,0029 0,0029 0,0029 0,0029 0,0029 0,0029 0,0029 0,0029 0,0029 0,0023 0,0029 0,0023 0,0023 0,0023 0,0023 0,0023 0,0023 0,0023 0,0023 0,0028 0,0028 0,0028 0,0028 0,0028 0,0029 0,0029 0,0029 0,0028 0,0029 0,0029 0,0028 0,0028 0,0029 0,0028 0,0028 0,0029 0,0028 0,000800000000	100 100 1/2 Width 100 100 100 100 100 100 100 100 100 10	2,0375 2,0417 ist [degre] 7,7E-05 0,000125 0,000129 0,000308 0,000472 0,000472 0,000472 0,000472 0,000472 0,000472 0,000472 0,00164 0,002469 0,003712 0,003573 0,008358 0,012521 0,008358 0,012521 0,012521 0,041708 0,061945 0,091548 0,134325 0,91548 0,134325	353835 518400 0 0 0 1 1 1 1 1 2 3 3 4 5 9 4 5 9 1 4 2 1 32 47 71 1 32 47 71 1 106 1160 239	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0006 0,0008 0,0013 0,0029 0,0044 0,0067 0,0100 0,0150 0,0225 0,0337 0,0503 0,0749 0,1113 0,1644 0,2412 0,3499	100 1/2 Width 100 100 100 100 100 100 100 10	1,928695095 /st[degre] 7,93E-05 0,000129 0,000204 0,000317 0,000485 0,00074 0,00112 0,001889 0,002543 0,003823 0,00574 0,003823 0,00574 0,008608 0,012294 0,012294 0,028819 0,042942 0,063765 0,094209 0,13817 0,200499	518400 time [sec.] 0 0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 150	144 time (l 0 0 0 0 0 0 0 0 0 0 0 0 0		3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0003 0,0008 0,0013 0,0019 0,0029 0,0043 0,0055 0,0097 0,0146 0,0219 0,0327 0,0146 0,0219 0,0327 0,0488 0,0728 0,0488 0,0728 0,1081 0,1598 0,2344 0,3404	100 100 1/2 Width 100 100 100 100 100 100 100 100 100 10	2,0375 2,0417 ist [degre] 7,7E-05 0,000126 0,000199 0,000308 0,000472 0,000718 0,001087 0,00164 0,002459 0,003712 0,001545 0,003573 0,008358 0,012521 0,00125 0,00125 0,00125 0,00125 0,000199 0,000199 0,000199 0,000199 0,000199 0,000199 0,000199 0,000199 0,000199 0,000199 0,000199 0,000199 0,000199 0,000199 0,000199 0,0001087 0,0001087 0,0001087 0,0001087 0,0001087 0,000187 0,000187 0,000187 0,000187 0,000187 0,000187 0,000187 0,000187 0,000187 0,000187 0,000187 0,000187 0,000187 0,000187 0,000187 0,000187 0,000187 0,000187 0,000187 0,000573 0,00038 0,000573 0,000378 0,00154 0,0027987 0,00154 0,0027987 0,00194 0,00194 0,0027987 0,00194 0,00194 0,00194 0,0027987 0,00194 0,00194 0,00194 0,0027987 0,00194 0,00194 0,00194 0,00000000000000000000000000000000000	353835 518400 0 0 0 0 1 1 1 2 3 4 6 9 14 21 32 47 14 21 32 47 71 105 160	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0006 0,0008 0,0013 0,0020 0,0029 0,0044 0,0067 0,0100 0,0150 0,0150 0,0150 0,0150 0,0225 0,0337 0,0503 0,0749 0,1113 0,1644 0,2412 0,3499 0,5002 0,6999	100 1/2 Width 100 100 100 100 100 100 100 10	1,928695095 /st[degre 7,93E-05 0,000129 0,000204 0,000317 0,000485 0,00074 0,001689 0,002543 0,000574 0,008508 0,012896 0,012896 0,012896 0,012896 0,012896 0,012896 0,012896 0,012896 0,012896 0,012896 0,012896 0,012896 0,012896 0,012896 0,012896 0,012896 0,008508	518400 time [sec.] 0 0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 105 160 239	144 time (1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0003 0,0005 0,0008 0,0013 0,0019 0,0029 0,0043 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,00029 0,0043 0,0005 0,00029 0,0043 0,00029 0,0043 0,00029 0,0043 0,00029 0,0043 0,00029 0,0004 0,00029 0,0005 0,005 0,00000000	100 100 1/2 Width 100 100 100 100 100 100 100 100 100 10	2,0375 2,0417 ist [degre] 7,7E-05 0,000125 0,000125 0,000308 0,000472 0,000718 0,00164 0,002469 0,003712 0,005573 0,001873 0,001873 0,0018736 0,012521 0,018736 0,025987 0,041708 0,061945 0,061945 0,091548 0,195038 0,195038 0,195038	353835 518400 0 0 0 1 1 1 1 1 2 3 3 4 5 9 4 5 9 1 4 2 1 32 47 71 1 32 47 71 1 106 1160 239	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0006 0,0008 0,0013 0,0029 0,0037 0,0503 0,1113 0,1564 0,5002 0,	100 1/2 Width 100 100 100 100 100 100 100 10	1,928695095 ist [degre] 7,93E-05 0,000129 0,000204 0,000317 0,000486 0,00074 0,00112 0,001689 0,002543 0,002543 0,002543 0,00374 0,008608 0,012896 0,01294 0,008608 0,01294 0,008608 0,01294 0,008765 0,094209 0,13817 0,286568 0,401015 0,545368	518400 time [sec.] 0 0 0 0 1 1 1 1 2 3 4 6 9 14 6 9 14 21 32 47 71 106 160 239 359 539	144 time (1 0 0 0 0 0 0 0 0 0 0 0 0 0		3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0005 0,0008 0,0013 0,0019 0,0029 0,0043 0,0005 0,0097 0,0146 0,0219 0,00327 0,0146 0,0229 0,0037 0,0146 0,0229 0,0037 0,0146 0,0229 0,0037 0,0148 0,0327 0,0488 0,0728 0,1081 0,1598 0,2344 0,4869 0,5822 0,9290	100 100 1/2 Width 100 100 100 100 100 100 100 100 100 10	2,0375 2,0417 bit [degre] 7,7E-05 0,000126 0,000126 0,000199 0,000308 0,000472 0,000718 0,00164 0,001687 0,00164 0,001687 0,0015573 0,0005573 0,0005573 0,0005573 0,00055730 0,0005573000000000000000000000000	353835 518400 0 0 0 0 1 1 1 1 1 2 3 3 4 5 9 14 2 1 3 2 3 4 4 5 9 14 21 32 2 47 71 106 160 239 339 359 539	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0006 0,0008 0,0013 0,0029 0,0029 0,0029 0,0044 0,0067 0,0100 0,0150 0,0225 0,0337 0,0503 0,0749 0,1113 0,1544 0,2412 0,3499 0,5502 0,5999 0,5519 1,2477	100 1/2 Width 100 100 100 100 100 100 100 10	1,928695095 ist [degre] 7,99E-05 0,000129 0,000204 0,000317 0,000486 0,00074 0,00112 0,001889 0,002543 0,003243 0,003243 0,00374 0,008608 0,012294 0,028819 0,042942 0,063765 0,094209 0,13817 0,200499 0,285568 0,441015 0,5453568 0,714825	518400 time [sec.] 0 0 0 0 1 1 1 2 3 4 5 9 14 21 32 4 7 1 10 5 160 239 359 539 808	144 time (  0 0 0 0 0 0 0 0 0 0 0 0 0		3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0000 0,00000000	100 100 1/2 Width 100 100 100 100 100 100 100 100 100 10	2,0375 2,0417 ist [degre] 7,7E-05 0,000126 0,000199 0,000308 0,000472 0,0001718 0,000472 0,000154 0,002459 0,003712 0,003573 0,008358 0,012521 0,018736 0,027987 0,041708 0,061945 0,021581 0,01548 0,134325 0,195038 0,278994 0,390842 0,532256 0,598739	353835 518400 0 0 0 0 1 1 1 1 1 2 3 4 4 5 9 1 4 4 5 9 1 4 2 1 2 3 4 7 1 106 160 239 359 539 808	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0006 0,0008 0,0013 0,0029 0,0044 0,0067 0,0100 0,0150 0,0225 0,0337 0,0503 0,0749 0,1113 0,1544 0,2412 0,3499 0,5002 0,6999 0,9519 1,2477 1,5639	100 1/2 Width 100 100 100 100 100 100 100 10	1,928695095 ist [degre] 7,99E-05 0,000129 0,000204 0,000317 0,000486 0,00074 0,00112 0,001889 0,002543 0,003823 0,00574 0,003823 0,00574 0,003823 0,00574 0,003808 0,012294 0,0038608 0,012294 0,028819 0,042942 0,063765 0,094209 0,286568 0,401015 0,545368 0,714825 0,89597	518400 time [sec.] 0 0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539 808 1212	144 time () 0 0 0 0 0 0 0 0 0 0 0 0 0		3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0003 0,0008 0,0013 0,0019 0,0029 0,0043 0,0055 0,0097 0,0146 0,0219 0,0327 0,0146 0,0219 0,0327 0,0488 0,0728 0,0327 0,0488 0,0728 0,1598 0,1598 0,2344 0,3404 0,4869 0,6822 0,9290 1,2196 1,5312	100 100 1/2 Width 100 100 100 100 100 100 100 100 100 10	2,0375 2,0417 ist [degre] 7,7E-05 0,000126 0,000199 0,000308 0,000472 0,00164 0,00164 0,002459 0,003712 0,001547 0,00164 0,002459 0,003712 0,008358 0,012521 0,008358 0,012521 0,012521 0,012521 0,012521 0,012521 0,012521 0,012521 0,01548 0,027987 0,041708 0,061945 0,091548 0,134325 0,195038 0,278994 0,390842 0,532256 0,598739 0,87725	353835 518400 0 0 0 0 1 1 1 2 3 4 6 9 14 2 1 3 4 5 9 14 21 32 47 7 11 005 150 239 359 539 808 808	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0006 0,0008 0,0013 0,0020 0,0029 0,0044 0,0067 0,0100 0,0150 0,0150 0,0225 0,0337 0,0503 0,0749 0,1113 0,1544 0,2412 0,3499 0,5002 0,5999 0,9519 1,2677 1,5539 1,8653	100 1/2 Width 100 100 100 100 100 100 100 10	1,928695095           ist [degre]           7,93E-05           0,000129           0,000204           0,000317           0,000485           0,00074           0,00128           0,00159           0,000543           0,001589           0,000543           0,000574           0,008508           0,012895           0,012895           0,0429342           0,063765           0,94209           0,285568           0,401015           0,545368           0,714825           0,85597           1,068625	518400 time [sec.] 0 0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 105 160 239 359 539 808 1212 1818	144		3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0005 0,0003 0,0003 0,0005 0,0003 0,0005 0,0003 0,0003 0,0005 0,0003 0,0003 0,0005 0,0003 0,0003 0,0005 0,0003 0,0003 0,0005 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0005 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0005 0,0003 0,0003 0,0005 0,0003 0,0005 0,0003 0,0005 0,0003 0,0005 0,0003 0,0005 0,0003 0,0003 0,0005 0,0003 0,0005 0,0003 0,0003 0,0005 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0005 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0005 0,0003 0,005 0,0037 0,0488 0,2344 0,4869 0,5822 0,9290 1,2196 1,5312 1,5312 1,8293 0,8293 0,8293 0,8293 0,5212 0,522 0,5212 0,522 0,5220 0,5200 0,5200 0,5200 0,5200 0,5200 0,520	100 100 1/2 Width 100 100 100 100 100 100 100 100 100 10	2,0375 2,0417 ist [degre] 7,7E-05 0,000125 0,000125 0,000308 0,000472 0,000472 0,000472 0,000472 0,000472 0,000472 0,000472 0,000472 0,00164 0,002469 0,003712 0,00154 0,002573 0,008358 0,008358 0,008358 0,008358 0,008358 0,008358 0,008358 0,008358 0,008358 0,008358 0,001548 0,001548 0,001548 0,001548 0,001548 0,001548 0,001548 0,001548 0,001548 0,001548 0,0019573 0,0019572 0,0019572 0,0019572 0,0019572 0,0019572 0,0019572 0,0019572 0,0019572 0,0019572 0,0019572 0,0019572 0,0019572 0,0019572 0,0019572 0,0019572 0,0019572 0,0019572 0,00195720 0,00075720000000000000000000000000000000	353835 518400 0 0 0 0 1 1 1 1 1 2 3 3 4 5 9 4 4 5 9 1 4 2 1 32 4 7 71 1 32 47 71 1 0 6 150 239 359 539 808 1212 2 1818	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0006 0,0008 0,0013 0,0029 0,0044 0,0067 0,0100 0,0150 0,0225 0,0337 0,0503 0,0749 0,1113 0,1544 0,2412 0,3499 0,5002 0,6999 0,9519 1,2477 1,5639	100 1/2 Width 100 100 100 100 100 100 100 10	1,928695095 ist [degre] 7,99E-05 0,000129 0,000204 0,000317 0,000486 0,00074 0,00112 0,001889 0,002543 0,003823 0,00574 0,003823 0,00574 0,003823 0,00574 0,003808 0,012294 0,0038608 0,012294 0,028819 0,042942 0,063765 0,094209 0,286568 0,401015 0,545368 0,714825 0,89597	518400 time [sec.] 0 0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539 808 1212	144 time () 0 0 0 0 0 0 0 0 0 0 0 0 0		3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0003 0,0008 0,0013 0,0019 0,0029 0,0043 0,0055 0,0097 0,0146 0,0219 0,0327 0,0146 0,0219 0,0327 0,0488 0,0728 0,0327 0,0488 0,0728 0,1598 0,1598 0,2344 0,3404 0,4869 0,6822 0,9290 1,2196 1,5312	100 100 1/2 Width 100 100 100 100 100 100 100 100 100 10	2,0375 2,0417 ist [degre] 7,7E-05 0,000126 0,000199 0,000308 0,000472 0,00164 0,00164 0,002459 0,003712 0,001547 0,00164 0,002459 0,003712 0,008358 0,012521 0,008358 0,012521 0,012521 0,012521 0,012521 0,012521 0,012521 0,012521 0,01548 0,027987 0,041708 0,061945 0,091548 0,134325 0,195038 0,278994 0,390842 0,532256 0,598739 0,87725	353835 518400 0 0 0 0 1 1 1 2 3 4 6 9 14 2 1 3 4 5 9 14 21 32 47 7 11 005 150 239 359 539 808 808	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0006 0,0008 0,0013 0,0020 0,0029 0,0044 0,0067 0,0100 0,0150 0,0150 0,0225 0,0337 0,0503 0,0749 0,1113 0,1544 0,2412 0,3499 0,5002 0,5002 0,5999 0,5519 1,2477 1,5639 1,2653 2,1194	100 1/2 Width 100 100 100 100 100 100 100 10	1,928695095	518400 time [sec.] 0 0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 105 160 239 359 539 808 1212 1818	144		3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0003 0,0005 0,0008 0,0013 0,0019 0,0029 0,0043 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0003 0,00043 0,00029 0,0043 0,00029 0,0043 0,00029 0,0043 0,00029 0,0043 0,00029 0,00043 0,0005 0,0005 0,0005 0,00043 0,0005 0,0005 0,0005 0,00043 0,0005 0,0005 0,0005 0,0005 0,00043 0,0005 0,0005 0,0005 0,00043 0,0005 0,0005 0,0005 0,0005 0,0005 0,00043 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0029 0,0005 0,0029 0,0029 0,0043 0,0029 0,0025 0,0029 0,0029 0,0028 0,0029 0,0028 0,0027 0,0028 0,0028 0,0029 0,0029 0,0029 0,0029 0,0029 0,0029 0,0029 0,0029 0,0027 0,0028 0,0029 0,0029 0,0029 0,0029 0,0029 0,0027 0,0028 0,0029 0,0029 0,0029 0,0027 0,0028 0,0029 0,0029 0,0029 0,0029 0,0029 0,0027 0,0029 0,0000000000	100 100 1/2 Width 100 100 100 100 100 100 100 100 100 10	2,0375 2,0417 ist [degre] 7,7E-05 0,000125 0,000125 0,00038 0,000472 0,000472 0,000472 0,000472 0,000472 0,000472 0,00164 0,001087 0,00164 0,001087 0,0015573 0,0015573 0,0018736 0,012521 0,018736 0,025987 0,041708 0,061945 0,091548 0,001251 0,000712 0,000718 0,00164 0,000718 0,00164 0,00164 0,00164 0,00164 0,000718 0,00164 0,000718 0,00164 0,000718 0,000573 0,001873 0,00000000000000000000000000000000000	353835 518400 0 0 0 0 1 1 1 1 1 2 3 3 4 5 9 1 4 5 9 1 4 5 9 1 4 2 1 32 4 7 71 105 150 239 359 539 808 1212 1818 822727	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0006 0,0008 0,0013 0,0020 0,0029 0,0029 0,0044 0,0067 0,0100 0,0150 0,0225 0,0337 0,0503 0,0749 0,1113 0,1544 0,2412 0,3499 0,5002 0,5002 0,5002 0,5099 0,9519 1,2477 1,5639 1,8653 2,1194 2,3152	100 1/2 Width 100 100 100 100 100 100 100 10	1,928695095 7,93E-05 0,000129 0,000224 0,00024 0,000317 0,000486 0,00074 0,00112 0,001589 0,002543 0,002543 0,00574 0,003823 0,00574 0,003823 0,00574 0,003823 0,00574 0,003823 0,00574 0,003823 0,00574 0,003823 0,00574 0,003823 0,00574 0,003823 0,00574 0,003823 0,00574 0,003823 0,00574 0,003823 0,00574 0,003823 0,00574 0,00575 0,00574 0,00575 0,00575 0,00574 0,00575 0,00574 0,00575 0,0057	518400 time [sec.] 0 0 0 0 1 1 1 1 2 3 4 4 5 9 14 21 3 4 4 7 1 105 160 239 359 539 808 1212 188 2727 4091	144 time (1 0 0 0 0 0 0 0 0 0 0 0 0 0		3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0003 0,0003 0,0003 0,0013 0,0019 0,0029 0,0043 0,0029 0,0043 0,0029 0,0043 0,0029 0,0043 0,0029 0,0043 0,0029 0,0043 0,0029 0,0043 0,0029 0,0043 0,0029 0,0043 0,0029 0,0043 0,0029 0,0043 0,0029 0,0043 0,0029 0,0043 0,0029 0,0043 0,0002 0,0002 0,0002 0,0005 0,0008 0,0005 0,0008 0,0005 0,0008 0,0005 0,0008 0,0008 0,0005 0,0008 0,0008 0,0009 0,0005 0,0008 0,0008 0,0009 0,0008 0,0009 0,0008 0,0009 0,0008 0,0009 0,0008 0,0009 0,0008 0,0009 0,0008 0,0009 0,0008 0,0009 0,0008 0,0009 0,00327 0,0048 0,0327 0,0488 0,0320 0,0320 0,03404 0,0320 0,03404 0,0489 0,05822 0,9290 1,2196 0,53220 0,53220 0,53200000000000000000000000000000000000	100 100 1/2 Width 100 100 100 100 100 100 100 100 100 10	2,0375 2,0417 ist [degre] 7,7E-05 0,000126 0,000125 0,000308 0,000472 0,000718 0,001087 0,00164 0,002469 0,003712 0,005573 0,0018736 0,0015573 0,0015573 0,0015573 0,0015573 0,0015573 0,0015573 0,0015573 0,0015573 0,001545 0,0015573 0,012521 0,013736 0,013735 0,01548 0,0134325 0,135038 0,0134325 0,135038 0,073894 0,390842 0,532256 0,598739 0,87725 1,047965 1,192417 1,304405	353835 518400 0 0 0 0 1 1 1 1 1 2 3 3 4 6 9 14 2 3 3 4 4 5 9 14 2 1 32 4 7 71 106 160 239 359 539 808 1212 1818 2727 4091	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0006 0,0003 0,0002 0,0029 0,0029 0,0044 0,0067 0,0100 0,0150 0,0225 0,0337 0,0503 0,0749 0,1113 0,1544 0,2412 0,3499 0,5502 0,65999 0,5519 1,24777 1,5639 1,8653 2,1194 2,3152 2,4705	100 1/2 Width 100 100 100 100 100 100 100 10	1,928695095 ist [degre] 7,99E-05 0,000129 0,000204 0,000317 0,000486 0,00074 0,00112 0,001889 0,002543 0,003243 0,00374 0,008608 0,013296 0,019294 0,028419 0,042942 0,063765 0,04455 0,045568 0,14455 0,245588 0,14455 0,14	518400 time [sec.] 0 0 0 0 1 1 1 2 3 4 1 1 2 3 4 5 9 14 21 3 4 7 1 10 5 9 14 21 32 4 7 1 10 1 2 3 4 5 9 14 21 32 4 7 1 10 5 9 14 21 32 4 7 1 1 1 2 3 4 5 9 1 1 1 1 1 2 3 4 5 9 1 1 1 1 1 1 1 1 1 1 1 1 1	144 time (1 0 0 0 0 0 0 0 0 0 0 0 0 0		3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,00000000	100 100 100 100 100 100 100 100 100 100	2,0375 2,0417 ist [degre] 7,7E-05 0,000126 0,000199 0,000308 0,000472 0,0001718 0,001087 0,00154 0,002459 0,003712 0,003573 0,008358 0,012521 0,018736 0,027987 0,041708 0,061945 0,018736 0,027987 0,041708 0,061945 0,195038 0,278994 0,392842 0,532256 0,598739 0,87725 1,047966 1,192417 1,304405 1,394224	353835 518400 0 0 0 0 1 1 1 2 3 4 6 9 14 2 1 3 2 4 7 1 105 160 239 359 539 808 1212 1818 229 359 539 808	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0006 0,0008 0,0013 0,0029 0,0044 0,0067 0,0100 0,0150 0,0225 0,0337 0,0503 0,0749 0,1113 0,1544 0,2412 0,3499 0,5002 0,6999 0,5519 1,2477 1,5639 1,8653 2,1194 2,3152 2,4705 2,6191	100 1/2 Width 100 100 100 100 100 100 100 10	1,928695095 ist [degre] 7,99E-05 0,000129 0,000204 0,000317 0,000486 0,00074 0,00112 0,001889 0,002543 0,003823 0,00574 0,008608 0,012294 0,008608 0,012294 0,008608 0,012294 0,028819 0,042942 0,063765 0,094209 0,286568 0,401015 0,545368 0,714825 0,89597 1,068626 1,214156 1,326281 1,415216 1,500274	518400 time [sec.] 0 0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091 16135 9204	144 time () 0 0 0 0 0 0 0 0 0 0 0 0 0		3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0003 0,0008 0,0013 0,0019 0,0029 0,0043 0,005 0,0037 0,0146 0,0219 0,0048 0,0055 0,0097 0,0146 0,0219 0,0327 0,0488 0,0728 0,1081 0,1598 0,2344 0,3404 0,4859 0,5822 0,9290 1,2196 1,5312 1,8293 2,0815 2,2770 2,2439 2,5858	100 100 100 100 100 100 100 100 100 100	2,0375 2,0417 ist [degre] 7,7E-05 0,000199 0,000308 0,000472 0,001087 0,00164 0,002459 0,003712 0,00164 0,002459 0,003712 0,005573 0,008358 0,012521 0,008358 0,012521 0,008358 0,012521 0,008358 0,012521 0,012521 0,012521 0,012521 0,012521 0,012521 0,012521 0,01548 0,027987 0,041708 0,091548 0,134325 0,195038 0,278994 0,390842 0,532256 0,598739 0,87725 1,047966 1,192417 1,304405 1,394224 1,481236	353835 518400 0 0 0 0 1 1 1 2 3 4 4 5 9 14 2 1 3 2 4 7 7 1 105 160 239 359 539 808 1212 1818 2727 4091 6135 6135	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0006 0,0003 0,0002 0,0029 0,0029 0,0044 0,0067 0,0100 0,0150 0,0225 0,0337 0,0503 0,0749 0,1113 0,1544 0,2412 0,3499 0,5502 0,65999 0,5519 1,24777 1,5639 1,8653 2,1194 2,3152 2,4705	100 1/2 Width 100 100 100 100 100 100 100 10	1,928695095 ist [degre] 7,99E-05 0,000129 0,000204 0,000317 0,000486 0,00074 0,00112 0,001889 0,002543 0,003243 0,00374 0,008608 0,013296 0,019294 0,028419 0,042942 0,063765 0,04455 0,045568 0,14455 0,245588 0,14455 0,14	518400 time [sec.] 0 0 0 0 1 1 1 2 3 4 1 1 2 3 4 5 9 14 21 3 4 7 1 10 5 9 14 21 32 4 7 1 10 1 2 3 4 5 9 14 21 32 4 7 1 10 5 9 14 21 32 4 7 1 1 1 2 3 4 5 9 1 1 1 1 1 2 3 4 5 9 1 1 1 1 1 1 1 1 1 1 1 1 1	144 time (1 0 0 0 0 0 0 0 0 0 0 0 0 0		3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,00000000	100 100 100 100 100 100 100 100 100 100	2,0375 2,0417 ist [degre] 7,7E-05 0,000126 0,000199 0,000308 0,000472 0,0001718 0,001087 0,00154 0,002459 0,003712 0,003573 0,008358 0,012521 0,018736 0,027987 0,041708 0,061945 0,018736 0,027987 0,041708 0,061945 0,195038 0,278994 0,392842 0,532256 0,598739 0,87725 1,047966 1,192417 1,304405 1,394224	353835 518400 0 0 0 0 1 1 1 2 3 4 6 9 14 2 1 3 2 4 7 1 105 160 239 359 539 808 1212 1818 229 359 539 808	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0006 0,0008 0,0013 0,0020 0,0029 0,0044 0,0067 0,0100 0,0150 0,0150 0,0225 0,0337 0,0503 0,0749 0,1113 0,1644 0,2412 0,3499 0,5002 0,5092 0,9519 1,2677 1,5639 1,8653 2,1194 2,3152 2,4705 2,5191 2,7904	100 1/2 Width 100 100 100 100 100 100 100 10	1,928695095 ist[degre] 7,93E-05 0,000129 0,000204 0,000317 0,000485 0,00074 0,0012 0,001689 0,002543 0,00323 0,00574 0,008608 0,013294 0,008608 0,013294 0,0085765 0,042092 0,042942 0,063765 0,042094 0,028819 0,288568 0,401015 0,545368 0,401015 0,545368 0,714425 0,85597 1,068626 1,214156 1,326281 1,415216 1,500274 1,598349	518400 time [sec.] 0 0 0 0 1 1 1 2 3 4 5 9 14 21 32 4 7 14 21 32 4 7 14 21 32 4 7 14 21 32 4 7 150 539 539 539 808 1212 1818 2727 4091 6136 9204 13806	144 time () 0 0 0 0 0 0 0 0 0 0 0 0 0		3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0003 0,0005 0,0008 0,0013 0,0019 0,0029 0,0043 0,0055 0,0097 0,0146 0,0029 0,0048 0,0055 0,0097 0,0146 0,0219 0,0327 0,0488 0,0728 0,0488 0,0728 0,1081 0,1598 0,2344 0,3404 0,4869 0,6822 0,9290 1,2196 1,5312 1,8293 2,0815 2,2770 2,4339 2,5858 2,7623	100 100 100 100 100 100 100 100 100 100	2,0375 2,0417 ist [degre] 7,7E-05 0,000125 0,000125 0,000308 0,000472 0,000472 0,000718 0,00164 0,002469 0,003712 0,005573 0,008358 0,012521 0,008358 0,012521 0,008358 0,027987 0,041708 0,061945 0,027987 0,041708 0,061945 0,091548 0,134325 0,91548 0,134325 0,91548 0,134325 0,91548 0,134325 0,91548 0,134325 0,91548 0,134325 0,91548 0,134325 0,91548 0,134325 0,91548 0,134325 0,91548 0,134325 0,91548 0,134325 0,91548 0,134325 0,91548 0,134325 0,91548 0,147966 1,192417 1,304405 1,394224 1,481236 1,582285	353835 518400 0 0 0 1 1 1 1 1 2 3 3 4 5 9 1 4 5 9 1 4 2 1 3 2 4 7 7 1 1 0 5 1 5 9 1 4 2 1 3 2 4 7 7 1 1 0 5 9 1 4 2 1 3 2 4 7 7 1 1 0 6 1 1 1 2 3 3 4 4 5 9 1 4 1 2 1 3 2 4 7 1 1 1 2 2 3 3 4 4 5 9 1 1 1 1 2 2 3 3 4 4 5 9 1 1 1 1 2 2 3 3 4 4 5 9 1 1 1 1 2 2 3 3 4 4 5 9 1 1 1 1 2 2 3 3 4 4 5 9 1 1 1 1 2 2 3 3 4 4 5 9 1 1 1 1 2 2 3 3 4 4 5 9 1 1 1 1 2 2 3 3 4 4 5 9 1 1 1 1 2 2 3 3 3 2 4 5 9 1 1 1 1 2 2 3 3 2 4 5 9 1 1 1 1 1 2 2 3 3 5 9 5 5 9 5 3 9 3 5 9 5 3 9 3 5 9 5 3 9 3 5 9 5 3 9 3 5 9 5 3 9 3 5 9 5 3 9 3 5 9 5 3 9 3 5 9 5 3 9 3 5 9 5 3 9 3 5 9 5 3 9 3 5 9 5 5 9 5 3 9 3 5 9 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0006 0,0008 0,0013 0,0020 0,0029 0,0044 0,0067 0,0100 0,0150 0,0150 0,0150 0,0225 0,0337 0,0503 0,0749 0,1113 0,1544 0,2412 0,3499 0,5002 0,5999 0,9519 1,2477 1,5639 1,2477 1,5639 1,8653 2,1194 2,3152 2,4705 2,5191 2,7904 2,9985	100 1/2 Width 100 100 100 100 100 100 100 10	1,928695095  ist [degre] 7,93E-05 0,000129 0,000204 0,000317 0,000486 0,00074 0,00112 0,001689 0,002543 0,00574 0,008508 0,012896 0,012896 0,012896 0,012896 0,012896 0,012896 0,012895 0,00574 0,008508 0,012896 0,012896 0,012895 0,00574 0,004209 0,13817 0,200499 0,285568 0,401015 0,545368 0,714825 0,85597 1,068626 1,214156 1,325281 1,415216 1,500274 1,598349 1,717517	518400 time [sec.] 0 0 0 1 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091 6136 9204 13806 20709	144 time (1 0 0 0 0 0 0 0 0 0 0 0 0 0		3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0003 0,0005 0,0008 0,0013 0,0019 0,0029 0,0043 0,0029 0,0043 0,0029 0,0043 0,0029 0,0043 0,0029 0,0043 0,0029 0,0043 0,0029 0,0043 0,0029 0,0043 0,0029 0,0043 0,0029 0,0043 0,0029 0,0043 0,0029 0,0043 0,0029 0,0043 0,0029 0,0043 0,0002 0,0005 0,0029 0,0048 0,0029 0,0029 0,0048 0,0029 0,0000 0,0000 0,0000000000	100 100 100 100 100 100 100 100 100 100	2,0375 2,0417 ist [degre] 7,7E-05 0,000125 0,000125 0,00038 0,000472 0,000472 0,000472 0,000472 0,000472 0,000472 0,00164 0,00164 0,001687 0,00154 0,0015573 0,0015573 0,0015573 0,0015573 0,012521 0,018736 0,027587 0,041708 0,051548 0,03556 0,03556 0,03556 0,03556 0,03556 0,03556 0,03556 0,03556 0,03556 0,03556 0,03556 0,03556 0,035666 0,035666 0,035666 0,0356666 0,03566666666666666666666666666666666666	353835 518400 0 0 0 0 1 1 1 1 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2227 4091 6136 9204 13806 20709	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0006 0,0003 0,00029 0,0029 0,0029 0,0044 0,0067 0,0100 0,0150 0,0225 0,0337 0,0503 0,0749 0,1113 0,1544 0,2412 0,3499 0,5002 0,6599 0,9519 1,2477 1,5539 1,8653 2,1194 2,3152 2,4705 2,6191 2,7904 2,9985 3,2409	100 1/2 Width 100 100 100 100 100 100 100 10	1,928695095 ist [degre] 7,93E-05 0,000129 0,000224 0,000317 0,000486 0,00074 0,00112 0,001589 0,002543 0,002543 0,00374 0,008223 0,00574 0,00823 0,00574 0,008608 0,012896 0,012896 0,012896 0,012896 0,012896 0,012896 0,012896 0,012896 0,003765 0,094209 0,13817 0,200499 0,285588 0,401015 0,545368 0,714825 0,85597 1,068626 1,214156 1,326281 1,415216 1,350274 1,550243	518400  time [sec.]  0  0  0  1  1  1  1  2  3  4  5  9  14  21  32  4  7  1  106  160  239  359  539  808  1212  188  2727  4091  6136  9204  13806  220709  31064	144 time () 0 0 0 0 0 0 0 0 0 0 0 0 0		3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0003 0,0003 0,0008 0,0013 0,0019 0,0029 0,0043 0,0029 0,0043 0,0029 0,0043 0,0029 0,0146 0,0219 0,00327 0,0146 0,0219 0,00327 0,0146 0,0229 0,0146 0,0229 0,0146 0,0229 0,0146 0,0229 0,0146 0,0229 0,0146 0,0229 0,0146 0,0229 0,0146 0,0229 0,0146 0,0229 0,0146 0,0229 0,0146 0,0229 0,0146 0,0229 0,0146 0,0229 0,0146 0,0229 0,0146 0,0229 0,0043 0,0005 0,	100 100 1/2 Width 100 100 100 100 100 100 100 100 100 10	2,0375 2,0417 ist [degre] 7,7E-05 0,000126 0,000126 0,000126 0,000128 0,000172 0,000308 0,000472 0,000718 0,00164 0,002469 0,003573 0,00164 0,002459 0,001547 0,0015573 0,008358 0,012521 0,018736 0,027987 0,041708 0,061945 0,027987 0,041708 0,01548 0,01548 0,01548 0,01548 0,039342 0,532256 0,598739 0,87725 1,047956 1,192417 1,304405 1,394224 1,481236 1,582285 1,06346 1,848594	353835 518400 0 0 0 0 1 1 1 1 1 2 3 3 4 5 9 14 2 3 3 4 5 9 14 2 3 2 4 7 7 1 105 150 239 359 539 808 1212 1818 2727 808 1212 1818 2727 4091 16136 9204 1136 136 9204 1336 9204 1336 920709 31064	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0006 0,0008 0,0013 0,0029 0,0029 0,0044 0,0067 0,0100 0,0150 0,0225 0,0337 0,0503 0,0749 0,1113 0,1544 0,2412 0,3499 0,5502 0,65999 0,5519 1,2477 1,5639 1,8653 2,1194 2,3152 2,4705 2,5191 2,7904 2,9985 3,2409 3,4995	100 1/2 Width 100 100 100 100 100 100 100 10	1,928695095           ist [degre]         7,99E-05         0,000129         0,000129         0,00024         0,000317         0,000486         0,00012         0,00012         0,00012         0,00012         0,00014         0,00112         0,001543         0,001543         0,000544         0,000544         0,000543         0,000544         0,000543         0,000543         0,000543         0,000543         0,000544         0,000544         0,00574         0,286568         0,714825         0,85597         1,068626         1,214156         1,350274         1,598349         1,717517         1,855243         2,004265	518400 time [sec.] 0 0 0 0 1 1 1 2 3 4 6 9 14 21 32 4 7 1 105 160 239 359 539 808 1212 1818 2777 4091 16136 9204 13806 9204 13806 9204 13806 9209 931064 46596	144 time (1 0 0 0 0 0 0 0 0 0 0 0 0 0		3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0003 0,0008 0,0013 0,0019 0,0029 0,0043 0,0019 0,0029 0,0043 0,0055 0,0097 0,0146 0,0219 0,0488 0,0728 0,0146 0,0219 0,0488 0,0327 0,0488 0,0327 0,0488 0,0327 0,0488 0,2344 0,3404 0,4859 0,6822 0,9290 1,2196 1,5312 1,8293 2,0815 2,2770 2,4339 2,5858 2,7623 2,9773 3,2277 3,4950	100 100 100 100 100 100 100 100 100 100	2,0375 2,0417 ist [degre] 7,7E-05 0,000126 0,000199 0,000308 0,000472 0,000187 0,00164 0,002459 0,003712 0,00154 0,002573 0,003573 0,003573 0,003573 0,003573 0,003573 0,003573 0,001548 0,012521 0,018736 0,027987 0,041708 0,061945 0,019458 0,019458 0,019458 0,019458 0,019458 0,019458 0,019458 0,019458 0,019458 0,019478 0,0598739 0,87725 1,047966 1,192417 1,304405 1,394224 1,481236 1,582285 1,705346 1,582285 1,705346	353835 518400 0 0 0 0 1 1 1 2 3 4 6 5 9 14 2 1 3 4 5 9 14 2 1 3 2 4 7 1 105 160 239 359 539 808 1212 1818 2259 539 808 1212 1818 2777 4091 6136 9204 13806 20709 31064 46596	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0006 0,0003 0,00029 0,0029 0,0029 0,0044 0,0067 0,0100 0,0150 0,0225 0,0337 0,0503 0,0749 0,1113 0,1544 0,2412 0,3499 0,5002 0,6599 0,9519 1,2477 1,5539 1,8653 2,1194 2,3152 2,4705 2,6191 2,7904 2,9985 3,2409	100 1/2 Width 100 100 100 100 100 100 100 10	1,928695095 ist [degre] 7,93E-05 0,000129 0,000224 0,000317 0,000486 0,00074 0,00112 0,001589 0,002543 0,002543 0,00374 0,008223 0,00574 0,00823 0,00574 0,008608 0,012896 0,012896 0,012896 0,012896 0,012896 0,012896 0,012896 0,012896 0,003765 0,094209 0,13817 0,200499 0,285588 0,401015 0,545368 0,714825 0,85597 1,068626 1,214156 1,326281 1,415216 1,350274 1,550243	518400  time [sec.]  0  0  0  1  1  1  1  2  3  4  5  9  14  21  32  4  7  1  106  160  239  359  539  808  1212  188  2727  4091  6136  9204  13806  220709  31064	144 time () 0 0 0 0 0 0 0 0 0 0 0 0 0		3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0003 0,0003 0,0008 0,0013 0,0019 0,0029 0,0043 0,0029 0,0043 0,0029 0,0043 0,0029 0,0146 0,0219 0,00327 0,0146 0,0219 0,00327 0,0146 0,0229 0,0146 0,0229 0,0146 0,0229 0,0146 0,0229 0,0146 0,0229 0,0146 0,0229 0,0146 0,0229 0,0146 0,0229 0,0146 0,0229 0,0146 0,0229 0,0146 0,0229 0,0146 0,0229 0,0146 0,0229 0,0146 0,0229 0,0146 0,0229 0,0043 0,0005 0,	100 100 1/2 Width 100 100 100 100 100 100 100 100 100 10	2,0375 2,0417 ist [degre] 7,7E-05 0,000126 0,000126 0,000126 0,000128 0,000172 0,000308 0,000472 0,000718 0,00164 0,002469 0,003573 0,00164 0,002459 0,001547 0,0015573 0,008358 0,012521 0,018736 0,027987 0,041708 0,061945 0,027987 0,041708 0,01548 0,01548 0,01548 0,01548 0,039342 0,532256 0,598739 0,87725 1,047956 1,192417 1,304405 1,394224 1,481236 1,582285 1,06346 1,848594	353835 518400 0 0 0 0 1 1 1 1 1 2 3 3 4 5 9 14 2 3 3 4 5 9 14 2 3 2 4 7 7 1 105 150 239 359 539 808 1212 1818 2727 808 1212 1818 2727 4091 16136 9204 1136 136 9204 1336 9204 1336 920709 31064	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0006 0,0008 0,0013 0,0029 0,0029 0,0044 0,0067 0,0100 0,0150 0,0225 0,0337 0,0503 0,0749 0,1113 0,1544 0,2412 0,3499 0,5502 0,65999 0,5519 1,2477 1,5639 1,8653 2,1194 2,3152 2,4705 2,5191 2,7904 2,9985 3,2409 3,4995	100 1/2 Width 100 100 100 100 100 100 100 10	1,928695095           ist [degre]         7,99E-05         0,000129         0,000129         0,00024         0,000317         0,000486         0,00012         0,00012         0,00012         0,00012         0,00014         0,00112         0,001543         0,001543         0,000544         0,000544         0,000543         0,000544         0,000543         0,000543         0,000543         0,000543         0,000544         0,000544         0,00574         0,286568         0,714825         0,85597         1,068626         1,214156         1,350274         1,598349         1,717517         1,855243         2,004265	518400 time [sec.] 0 0 0 0 1 1 1 2 3 4 6 9 14 21 32 4 7 1 105 160 239 359 539 808 1212 1818 2777 4091 16135 9204 13805 20709 31064 46596	144 time (1 0 0 0 0 0 0 0 0 0 0 0 0 0		3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0003 0,0008 0,0013 0,0019 0,0029 0,0043 0,0019 0,0029 0,0043 0,0055 0,0097 0,0146 0,0219 0,0488 0,0728 0,0146 0,0219 0,0488 0,0327 0,0488 0,0327 0,0488 0,0327 0,0488 0,2344 0,3404 0,4859 0,6822 0,9290 1,2196 1,5312 1,8293 2,0815 2,2770 2,4339 2,5858 2,7623 2,9773 3,2277 3,4950	100 100 100 100 100 100 100 100 100 100	2,0375 2,0417 ist [degre] 7,7E-05 0,000126 0,000199 0,000308 0,000472 0,000187 0,00164 0,002459 0,003712 0,00154 0,002573 0,003573 0,003573 0,003573 0,003573 0,003573 0,003573 0,001548 0,012521 0,018736 0,027987 0,041708 0,061945 0,019458 0,019458 0,019458 0,019458 0,019458 0,019458 0,019458 0,019458 0,019458 0,019478 0,0598739 0,87725 1,047966 1,192417 1,304405 1,394224 1,481236 1,582285 1,705346 1,582285 1,705346	353835 518400 0 0 0 0 1 1 1 2 3 4 6 5 9 14 2 1 3 4 5 9 14 2 1 3 2 4 7 1 105 160 239 359 539 808 1212 1818 2259 539 808 1212 1818 2777 4091 6136 9204 13806 20709 31064 46596	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0006 0,0008 0,0013 0,0020 0,0029 0,0044 0,0067 0,0100 0,0150 0,0150 0,0225 0,0337 0,0503 0,0749 0,1113 0,1644 0,2412 0,3499 0,5002 0,5099 0,9519 1,2677 1,5639 1,8653 2,1194 2,3152 2,4705 2,4705 2,5191 2,7904 2,9985 3,2409 3,7450 3,9452	100  1/2 Width 100 100 100 100 100 100 100 100 100 10	1,928695095           ist [degre]           7,93E-05           0,000129           0,000129           0,000317           0,000485           0,00074           0,0012           0,00137           0,000485           0,0014           0,00153           0,001639           0,001243           0,0012543           0,000574           0,008208           0,0112294           0,008508           0,042942           0,063765           0,94209           0,285568           0,401015           0,545368           0,714425           0,89597           1,068626           1,214156           1,556231           1,556243           2,004265           2,144736           2,04265           2,244736           2,04265           2,244736	518400 time [sec.] 0 0 0 0 1 1 1 2 3 4 5 9 14 21 32 4 5 9 14 21 32 4 7 1 105 150 239 359 539 808 1212 1818 22727 4091 6136 9204 13806 20709 31064 13806 20709 31064 13805 69839 104840	144 time () 0 0 0 0 0 0 0 0 0 0 0 0 0		3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0003 0,0005 0,0008 0,0013 0,0019 0,0029 0,0043 0,0055 0,0097 0,0146 0,0219 0,0327 0,0488 0,0728 0,0219 0,0327 0,0488 0,0728 0,0488 0,0728 0,1081 0,1598 0,2344 0,4869 0,5822 0,9290 1,2196 1,5312 1,8293 2,0815 2,2770 2,4339 2,5858 2,7623 2,9773 3,2277 3,4950 3,7488 3,9558	100 100 100 100 100 100 100 100 100 100	2,0375 2,0417 ist [degre] 7,7E-05 0,000125 0,000125 0,000125 0,00038 0,000472 0,000472 0,000472 0,000472 0,000472 0,000472 0,000472 0,000472 0,00164 0,002459 0,003712 0,00154 0,001553 0,027987 0,041708 0,061945 0,027987 0,041708 0,061945 0,01553 0,01554 0,930842 0,532256 1,94224 1,94224 1,94224 1,848694 1,848694 2,01678 2,246893 2,265325	353835 518400 0 0 0 0 1 1 1 1 1 2 3 3 4 5 9 4 7 1 2 3 3 4 5 9 9 1 4 7 1 1 2 2 3 3 4 7 1 1 3 2 4 7 7 1 1 3 2 4 7 7 1 1 5 9 9 1 4 6 1 5 9 9 3 5 9 5 3 5 9 3 5 9 5 3 5 9 5 3 9 3 5 9 5 3 9 3 5 9 5 3 9 3 5 9 5 3 9 3 5 9 5 5 9 5 3 9 3 5 9 5 3 5 9 5 5 9 5 3 9 3 5 9 5 5 9 5 3 9 3 5 9 5 5 9 5 3 5 9 5 3 5 9 5 5 9 5 3 5 9 5 5 9 5 5 9 5 3 5 9 5 5 9 5 5 9 5 5 9 5 5 9 5 5 9 5 5 9 5 5 9 5 5 9 5 5 9 5 5 9 5 9 5 5 5 5 5 9 5	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0005 0,0008 0,0013 0,0020 0,0029 0,0044 0,0067 0,0100 0,0150 0,0150 0,0225 0,0337 0,0503 0,0749 0,1113 0,1544 0,2412 0,3499 0,5002 0,5999 0,9519 1,2477 1,5539 1,8653 2,1194 2,3152 2,4705 2,5191 2,7904 2,9985 3,2409 3,4995 3,2409 3,4995 3,7450 3,9452 4,0803	100  1/2 Width 100 100 100 100 100 100 100 100 100 10	1,928695095           ist [degre]           7,93E-05           0,000129           0,000204           0,000317           0,000486           0,000129           0,000204           0,000129           0,000129           0,000189           0,000574           0,000574           0,000574           0,0012994           0,042994           0,042942           0,063765           0,094209           0,13817           0,286568           0,401015           0,545368           0,41015           0,545368           0,714825           0,85597           1,066626           1,214156           1,590274           1,598349           1,717517           1,855243           2,044255           2,144736           2,259273           2,336566	518400 time [sec.] 0 0 0 0 1 1 1 2 3 4 5 9 14 2 3 4 6 9 14 21 32 47 71 105 160 239 359 539 808 1212 1818 2727 4091 6136 9204 13805 20709 31064 46595 104840 157260	144 time (1 0 0 0 0 0 0 0 0 0 0 0 0 0		3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0003 0,0005 0,0008 0,0013 0,0019 0,0029 0,0043 0,0029 0,0043 0,0065 0,0097 0,0146 0,0219 0,00327 0,0146 0,0219 0,00327 0,0148 0,0029 0,0043 0,0005 0,0029 0,0048 0,0029 0,0048 0,0029 0,0048 0,0029 0,0048 0,0029 0,0029 0,0048 0,0029 0,0048 0,0029 0,0048 0,0029 0,0029 0,0048 0,0029 0,0029 0,0048 0,0029 0,0029 0,0048 0,0029 0,0029 0,0029 0,0048 0,0029 0,0029 0,0029 0,0029 0,0029 0,0029 0,0029 0,0029 0,0027 0,0028 0,0029 0,0000 0,0000000000	100 100 100 100 100 100 100 100 100 100	2,0375 2,0417 ist [degre] 7,7E-05 0,000125 0,000125 0,00038 0,000472 0,00038 0,000472 0,000718 0,00164 0,002469 0,003712 0,005573 0,001873 0,001873 0,001873 0,001873 0,001873 0,001873 0,001873 0,018736 0,027987 0,041708 0,051548 0,0391548 0,0391548 0,0391548 0,039256 0,091548 0,039256 0,091548 0,134325 0,091548 0,134325 0,091548 0,134325 0,091548 0,134325 0,190384 0,390842 0,532256 0,698739 0,87725 1,047966 1,192417 1,304405 1,394224 1,481236 1,582285 1,705346 1,582285 1,705346 1,582285 1,705346 1,582285 1,705346 1,582285 1,705346	353835 518400 0 0 0 0 1 1 1 1 1 2 3 4 5 9 14 21 32 47 71 106 150 239 359 539 808 1212 1818 2727 4091 6136 9204 13806 20709 31064 46596 69893 104840 157260	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0003 0,0003 0,0029 0,0029 0,0044 0,0067 0,0100 0,0029 0,0044 0,0067 0,0100 0,0150 0,0225 0,0337 0,0503 0,0749 0,1113 0,1544 0,2412 0,3499 0,5002 0,6599 0,9519 1,2477 1,5539 1,8653 2,1194 2,3152 2,4705 2,6191 2,7904 2,9985 3,2409 3,4995 3,7450 3,9452 4,0803 4,1527	100 1/2 Width 100 100 100 100 100 100 100 10	1,928695095 ,7,93E-05 0,000129 0,000204 0,000317 0,000486 0,00074 0,00112 0,001589 0,002543 0,003243 0,00374 0,008608 0,012896 0,012896 0,012942 0,003765 0,094209 0,13817 0,200499 0,285588 0,401015 0,094209 0,13817 0,200499 0,285588 0,401015 0,545368 0,714825 0,89597 1,068626 1,214156 1,326281 1,415216 1,350274 1,598349 1,717517 1,856243 2,004265 2,144736 2,337544	518400         0         0         0         0         0         0         0         0         0         0         0         0         0         0         1         1         2         3         4         5         9         14         21         32         47         71         106         160         2359         539         808         1212         188         2727         4091         6136         9204         13064         40596         69893         10440         157260         235890	144 time (1 0 0 0 0 0 0 0 0 0 0 0 0 0		3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0003 0,0003 0,0003 0,0003 0,0013 0,0019 0,0029 0,0043 0,0005 0,0097 0,0146 0,0219 0,00327 0,0448 0,0097 0,0146 0,0229 0,0043 0,0097 0,0146 0,0229 0,0043 0,0097 0,0146 0,0229 0,0043 0,0029 0,0044 0,558 0,2344 0,3404 0,5822 0,5822 0,5822 2,2770 2,4839 2,5858 2,7773 3,2277 3,4950 3,7488 3,9558 3,7488 3,9558 4,1704	100 100 100 100 100 100 100 100 100 100	2,0375 2,0417 ist [degre] 7,7E-05 0,000126 0,000125 0,00038 0,000472 0,00038 0,000472 0,000718 0,000469 0,002469 0,003573 0,00164 0,002459 0,001573 0,001573 0,001573 0,001573 0,001573 0,012521 0,013736 0,021594 0,051945 0,051945 0,051945 0,051945 0,051945 0,051945 0,051945 0,0598739 0,87725 1,047956 1,192417 1,304405 1,394224 1,481236 1,582285 1,705346 1,848594 2,001678 2,265325 2,345284 2,265325	353835 518400 0 0 0 0 1 1 1 1 1 1 2 3 4 5 9 14 2 3 4 5 9 14 2 3 4 5 9 14 13 2 4 7 1 106 157260 235890 1064 46596 69893 1064 107260 1072	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,3675 Displ [mm] 0,0001 0,0002 0,0004 0,0005 0,0008 0,0013 0,0020 0,0029 0,0044 0,0067 0,0100 0,0150 0,0150 0,0225 0,0337 0,0503 0,0749 0,1113 0,1544 0,2412 0,3499 0,5002 0,5999 0,9519 1,2477 1,5539 1,8653 2,1194 2,3152 2,4705 2,5191 2,7904 2,9985 3,2409 3,4995 3,2409 3,4995 3,7450 3,9452 4,0803	100  1/2 Width 100 100 100 100 100 100 100 100 100 10	1,928695095           ist [degre]           7,93E-05           0,000129           0,000204           0,000317           0,000486           0,000129           0,000204           0,000129           0,000129           0,000189           0,000574           0,000574           0,000574           0,0012994           0,042994           0,042942           0,063765           0,094209           0,13817           0,286568           0,401015           0,545368           0,41015           0,545368           0,714825           0,85597           1,066626           1,214156           1,590274           1,598349           1,717517           1,855243           2,044255           2,144736           2,259273           2,336566	518400 time [sec.] 0 0 0 0 1 1 1 2 3 4 5 9 14 2 3 4 6 9 14 21 32 47 71 105 160 239 359 539 808 1212 1818 2727 4091 6136 9204 13805 20709 31064 46595 104840 157260	144 time (1 0 0 0 0 0 0 0 0 0 0 0 0 0		3,5575 3,5650 Displ [mm] 0,0001 0,0002 0,0003 0,0003 0,0005 0,0008 0,0013 0,0019 0,0029 0,0043 0,0029 0,0043 0,0065 0,0097 0,0146 0,0219 0,00327 0,0146 0,0219 0,00327 0,0148 0,0029 0,0043 0,0005 0,0029 0,0048 0,0029 0,0048 0,0029 0,0048 0,0029 0,0048 0,0029 0,0029 0,0048 0,0029 0,0048 0,0029 0,0048 0,0029 0,0029 0,0048 0,0029 0,0029 0,0048 0,0029 0,0029 0,0048 0,0029 0,0029 0,0029 0,0048 0,0029 0,0029 0,0029 0,0029 0,0029 0,0029 0,0029 0,0029 0,0027 0,0028 0,0029 0,0000 0,0000000000	100 100 100 100 100 100 100 100 100 100	2,0375 2,0417 ist [degre] 7,7E-05 0,000125 0,000125 0,000126 0,000126 0,000126 0,000126 0,000187 0,000472 0,000472 0,000573 0,00164 0,002469 0,003573 0,001873 0,001873 0,001873 0,001873 0,001873 0,018736 0,018736 0,027897 0,041708 0,051548 0,0391548 0,0391548 0,134325 0,91548 0,0391548 0,039256 0,93739 0,87725 1,047966 1,192417 1,304405 1,394224 1,481236 1,582285 1,705346 1,582285 1,705346 1,582285 1,705346 1,582285 1,705346 1,582285 1,705346 1,582285 1,705346	353835 518400 0 0 0 0 1 1 1 1 1 2 3 4 5 9 14 21 32 47 71 106 150 239 359 539 808 1212 1818 2727 4091 6136 9204 13806 20709 31064 46596 69893 104840 157260	98 144 0 0 0 0 0 0 0 0 0 0 0 0 0	

Displ [mm] 0,0001 0,0002 0,0005		Twist [degrees	] time [sec.]	time (h)	TWIST	Displ [mm]	1/2 Width	rist [degree	time [sec.]	time (h)	TWIST
0,0002	100	6,99931E-05	0	0		0,0001	100	0,0001	0	0	
	100	0,000138902	0	0		0,0002	100	0,0001	0	0	
0,0000	100	0,000276697	0	0		0,0003	100	0,0002	0	0	
0,0008	100	0,000483339	1	0		0,0005	100	0,0003	0	0	
0,0014	100	0,000793185	1	0		0,0007	100	0,0004	0	0	
0,0022	100	0,0012577	1	0		0,0011	100	0,0005	1	0	
0,0034	100	0,001953895	2	0		0,0017	100	0,0010	1	0	
0,0052	100	0,002996879	3	ő		0,0025	100	0,0015	1	õ	
0,0080	100	0,004558435	4	ő		0,0039	100	0,0022	2	õ	
		-	4	0		-			2	0	
0,0120	100	0,006894229				0,0058	100	0,0033			
0,0181	100	0,010383255	10	0		0,0088	100	0,0050	4	0	
0,0272	100	0,015584108	15	0		0,0132	100	0,0075	6	0	
0,0407	100	0,023312792	23	0		0,0197	100	0,0113	9	0	
0,0606	100	0,034745417	34	0		0,0295	100	0,0169	14	0	
0,0900	100	0,051543269	52	0		0,0441	100	0,0252	21	0	
0,1326	100	0,075981608	78	0		0,0656	100	0,0376	32	0	
0,1938	100	0,11103105	117	0	α-reference	0,0975	100	0,0559	47	0	1/2 a-L
0,2798	100	0,160285098	175	0		0,1440	100	0,0825	71	0	
0,3972	100	0,227561597	263	0		0,2113	100	0,1211	106	0	
0,5515	100	0,315962395	394	0		0,3066	100	0,1757	160	0	
0,7441	100	0,426307683	591	0		0,4383	100	0,2511	239	0	
0,9691	100	0,555246903	887	õ		0,6135	100	0,3515	359	ō	
1,2114	100	0,694041395	1330	õ		0,8347	100	0,4782	539	õ	
	100	-	1995				100		808	0	
1,4482		0,829688022		1		1,0944		0,6270			
1,6574	100	0,949556223	2993	1		1,3723	100	0,7862	1212	0	
1,8293	100	1,04801199	4489	1		1,6374	100	0,9381	1818	1	
1,9724	100	1,129961166	6734	2		1,8611	100	1,0662	2727	1	
2,1080	100	1,207610452	10100	3		2,0337	100	1,1651	4091	1	
2,2576	100	1,293301282	15151	4		2,1710	100	1,2437	6136	2	
2,4333	100	1,393891686	22726	6		2,3027	100	1,3191	9204	3	
2,6334	100	1,508478423	34089	9		2,4548	100	1,4062	13805	4	
2,8428	100	1,628337234	51134	14		2,6398	100	1,5121	20709	6	
3,0367	100	1,739343516	76700	21		2,8551	100	1,6354	31064	9	
3,1902	100	1,827253141	115051	32		3,0848	100	1,7669	46596	13	
3,2903	100	1,884528887	172576	48		3,3029	100	1,8917	69893	19	
3,3418	100	1,914009524	258864	72		3,4805	100	1,9934	104840	29	
	100		388295	108			100		157260	44	
3,3620		1,92554739				3,6005		2,0620			
3,3675	100	1,928695095	518400	144		3,6646	100	2,0987	235890	66	
						3,6908	100	2,1137	353835	98	
						3,6985	100	2,1181	518400	144	
Displ [mm]	1/2 Width	rist [degree	time [sec.]	time (	h) Twist	Displ [mm]	1/2 Width	rist [degree	time [sec.]	time (h)	TWIST
0,0001	100	5,74E-05	0	0		0,0001	100	8,51E-05	0	0	
0,0002	100										
0,0002	200		0	0		0.0003			0	0	
	100	8,79E-05 0.000134	0	0		0,0003	100	0,000148	0	0	
	100	0,000134	0	0		0,0004	100 100	0,000148 0,000242	0	0	
0,0004	100	0,000134 0,000202	0 0	0 0		0,0004 0,0007	100 100 100	0,000148 0,000242 0,000384	0 0	0 0	
0,0004 0,0005	100 100	0,000134 0,000202 0,000305	0 0 1	0 0 0		0,0004 0,0007 0,0010	100 100 100 100	0,000148 0,000242 0,000384 0,000595	0 0 0	0 0 0	
0,0004 0,0005 0,0008	100 100 100	0,000134 0,000202 0,000305 0,000459	0 0 1 1	0 0 0 0		0,0004 0,0007 0,0010 0,0015	100 100 100 100 100	0,000148 0,000242 0,000384 0,000595 0,000913	0 0 0 1	0 0 0	
0,0004 0,0005 0,0008 0,0012	100 100 100 100	0,000134 0,000202 0,000305	0 0 1 1	0 0 0 0		0,0004 0,0007 0,0010	100 100 100 100 100 100	0,000148 0,000242 0,000384 0,000595	0 0 1 1	0 0 0 0	
0,0004 0,0005 0,0008	100 100 100	0,000134 0,000202 0,000305 0,000459	0 0 1 1	0 0 0 0		0,0004 0,0007 0,0010 0,0015	100 100 100 100 100	0,000148 0,000242 0,000384 0,000595 0,000913	0 0 0 1	0 0 0	
0,0004 0,0005 0,0008 0,0012	100 100 100 100	0,000134 0,000202 0,000305 0,000459 0,00069	0 0 1 1	0 0 0 0		0,0004 0,0007 0,0010 0,0015 0,0024	100 100 100 100 100 100	0,000148 0,000242 0,000384 0,000595 0,000913 0,00139	0 0 1 1	0 0 0 0	
0,0004 0,0005 0,0008 0,0012 0,0018	100 100 100 100 100	0,000134 0,000202 0,000305 0,000459 0,00069 0,001036	0 0 1 1 2	0 0 0 0 0		0,0004 0,0007 0,0010 0,0015 0,0024 0,0037	100 100 100 100 100 100 100	0,000148 0,000242 0,000384 0,000595 0,000913 0,00139 0,002105	0 0 1 1 1	0 0 0 0 0	
0,0004 0,0005 0,0008 0,0012 0,0018 0,0027	100 100 100 100 100 100	0,000134 0,000202 0,000305 0,000459 0,00069 0,001035 0,001555	0 0 1 1 2 3	0 0 0 0 0 0		0,0004 0,0007 0,0010 0,0015 0,0024 0,0037 0,0055	100 100 100 100 100 100 100 100	0,000148 0,000242 0,000384 0,000595 0,000913 0,00139 0,002105 0,003175	0 0 1 1 1 2	0 0 0 0 0 0 0	
0,0004 0,0005 0,0008 0,0012 0,0018 0,0027 0,0041 0,0061	100 100 100 100 100 100 100 100	0,000134 0,000202 0,000305 0,000459 0,00069 0,001036 0,001555 0,002332 0,003494	0 0 1 1 2 3 5 7	0 0 0 0 0 0 0 0		0,0004 0,0007 0,0010 0,0016 0,0024 0,0037 0,0055 0,0083 0,0125	100 100 100 100 100 100 100 100 100 100	0,000148 0,000242 0,000384 0,000595 0,000913 0,00139 0,002105 0,003175 0,00478 0,00478	0 0 1 1 2 3 4	0 0 0 0 0 0 0 0 0	
0,0004 0,0005 0,0008 0,0012 0,0018 0,0027 0,0041 0,0061 0,0091	100 100 100 100 100 100 100 100 100	0,000134 0,000202 0,000305 0,000459 0,00069 0,001036 0,001555 0,002332 0,003494 0,00523	0 0 1 1 2 3 5 7 11	0 0 0 0 0 0 0 0 0		0,0004 0,0007 0,0010 0,0016 0,0024 0,0037 0,0055 0,0083 0,0125 0,0188	100 100 100 100 100 100 100 100 100 100	0,000148 0,000242 0,000384 0,000555 0,000913 0,00139 0,002105 0,003175 0,003175 0,00478 0,007181	0 0 1 1 2 3 4 5	0 0 0 0 0 0 0 0 0 0 0 0	
0,0004 0,0005 0,0008 0,0012 0,0018 0,0027 0,0001 0,0061 0,0091 0,0136	100 100 100 100 100 100 100 100 100 100	0,000134 0,000202 0,000305 0,000459 0,001035 0,001355 0,001355 0,002332 0,003494 0,00523 0,00782	0 0 1 1 2 3 5 7 11 16	0 0 0 0 0 0 0 0 0 0		0,0004 0,0007 0,0010 0,0015 0,0024 0,0037 0,0035 0,0083 0,0125 0,0188 0,0282	100 100 100 100 100 100 100 100 100 100	0,000148 0,000242 0,000384 0,000555 0,000313 0,002105 0,003175 0,003175 0,00378 0,007181 0,010772 0,016134	0 0 1 1 2 3 4 5 9	0 0 0 0 0 0 0 0 0 0 0 0	
0,0004 0,0005 0,0008 0,0012 0,0018 0,0027 0,0041 0,0061 0,0091 0,0135 0,0204	100 100 100 100 100 100 100 100 100 100	0,000134 0,000202 0,000305 0,000459 0,001035 0,001035 0,001355 0,002332 0,003494 0,00523 0,00782 0,00782	0 0 1 1 2 3 5 7 11 15 24	0 0 0 0 0 0 0 0 0 0 0 0 0		0,0004 0,0007 0,0010 0,0016 0,0024 0,0037 0,0055 0,0083 0,0125 0,0188 0,0282 0,0421	100 100 100 100 100 100 100 100 100 100	0,000148 0,000242 0,000384 0,000595 0,000913 0,00139 0,002105 0,003175 0,00478 0,007181 0,010772 0,015134 0,024124	0 0 1 1 2 3 4 5 9 14	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0004 0,0005 0,0008 0,0012 0,0012 0,0018 0,0027 0,0041 0,0091 0,0136 0,0204 0,0303	100 100 100 100 100 100 100 100 100 100	0,000134 0,000202 0,000305 0,000459 0,00069 0,001035 0,001355 0,002332 0,003494 0,00523 0,00782 0,001782	0 0 1 1 2 3 5 7 11 15 24 35	0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0004 0,0007 0,0010 0,0016 0,0024 0,0037 0,0055 0,0083 0,0125 0,0188 0,0282 0,0421 0,0628	100 100 100 100 100 100 100 100 100 100	0,000148 0,000242 0,000384 0,000595 0,000595 0,0003139 0,002105 0,003175 0,00478 0,007181 0,007181 0,010772 0,015134 0,024124 0,035987	0 0 1 1 2 3 4 5 9 14 21		
0,0004 0,0005 0,0008 0,0012 0,0018 0,0027 0,0041 0,0051 0,0091 0,0136 0,0204 0,0303 0,0450	100 100 100 100 100 100 100 100 100 100	0,000134 0,000202 0,000305 0,000459 0,00069 0,001035 0,001355 0,002332 0,003494 0,00523 0,00782 0,001787 0,017371 0,025758	0 0 1 1 2 3 5 7 11 16 24 35 53	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0004 0,0007 0,0016 0,0024 0,0037 0,0055 0,0083 0,0125 0,0188 0,0282 0,0421 0,0628 0,0934	100 100 100 100 100 100 100 100 100 100	0,000148 0,000242 0,000384 0,000595 0,000313 0,00139 0,002105 0,003175 0,00478 0,007181 0,010772 0,016134 0,021124 0,035987 0,053515	0 0 1 1 2 3 4 5 9 14 21 32		
0,0004 0,0005 0,0008 0,0012 0,0018 0,0027 0,0041 0,0061 0,0091 0,0136 0,0204 0,0303 0,0450 0,0663	100 100 100 100 100 100 100 100 100 100	0,000134 0,000202 0,000305 0,000459 0,00069 0,001355 0,001355 0,002332 0,003494 0,00523 0,00782 0,00782 0,01167 0,017371 0,025758 0,037979	0 0 1 1 2 3 5 7 11 16 24 35 53 80	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 α-1	0,0004 0,0007 0,0010 0,0016 0,0024 0,0037 0,0035 0,0083 0,0125 0,0188 0,0125 0,0188 0,0282 0,0421 0,0628 0,0934 7 0,1383	100 100 100 100 100 100 100 100 100 100	0,000148 0,000242 0,000384 0,000595 0,000139 0,002105 0,003175 0,00478 0,007181 0,010772 0,016134 0,024124 0,035587 0,053515 0,079219	0 0 1 1 2 3 4 6 9 14 21 32 47		1/2 α-R
0,0004 0,0005 0,0008 0,0012 0,0018 0,0027 0,0041 0,0051 0,0091 0,0136 0,0204 0,0303 0,0450	100 100 100 100 100 100 100 100 100 100	0,000134 0,000202 0,000305 0,000459 0,001035 0,001355 0,001355 0,002332 0,003494 0,00523 0,00782 0,01167 0,017371 0,02758 0,037979 0,05554	0 0 1 1 2 3 5 7 11 16 24 35 53	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 α-	0,0004 0,0007 0,0016 0,0024 0,0037 0,0055 0,0083 0,0125 0,0188 0,0282 0,0421 0,0628 0,0934	100 100 100 100 100 100 100 100 100 100	0,000148 0,000242 0,000393 0,000393 0,00139 0,002105 0,003175 0,00478 0,007181 0,010772 0,016134 0,024124 0,025987 0,053515 0,079219 0,116502	0 0 1 1 2 3 4 5 9 14 21 32 47 71		1/2 α-R
0,0004 0,0005 0,0008 0,0012 0,0018 0,0027 0,0041 0,0061 0,0091 0,0136 0,0204 0,0303 0,0450 0,0663	100 100 100 100 100 100 100 100 100 100	0,000134 0,000202 0,000305 0,000459 0,00069 0,001355 0,001355 0,002332 0,003494 0,00523 0,00782 0,00782 0,01167 0,017371 0,025758 0,037979	0 0 1 1 2 3 5 7 11 16 24 35 53 80	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 α-	0,0004 0,0007 0,0010 0,0016 0,0024 0,0037 0,0035 0,0083 0,0125 0,0188 0,0125 0,0188 0,0282 0,0421 0,0628 0,0934 7 0,1383	100 100 100 100 100 100 100 100 100 100	0,000148 0,000242 0,000384 0,000595 0,000139 0,002105 0,003175 0,00478 0,007181 0,010772 0,016134 0,024124 0,035587 0,053515 0,079219	0 0 1 1 2 3 4 6 9 14 21 32 47		1/2 α-R
0,0004 0,0005 0,0008 0,0012 0,0018 0,0027 0,0041 0,0061 0,0091 0,0136 0,0204 0,0303 0,0450 0,0663 0,0969	100 100 100 100 100 100 100 100 100 100	0,000134 0,000202 0,000305 0,000459 0,001035 0,001355 0,001355 0,002332 0,003494 0,00523 0,00782 0,01167 0,017371 0,02758 0,037979 0,05554	0 0 1 1 2 3 5 7 11 15 24 35 53 80 120	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 α-1	0,0004 0,0007 0,0010 0,0016 0,0024 0,0037 0,0055 0,0083 0,0125 0,0188 0,0282 0,0282 0,0282 0,0282 0,0421 0,0628 0,0934 7 0,1383 0,2033	100 100 100 100 100 100 100 100 100 100	0,000148 0,000242 0,000393 0,000393 0,00139 0,002105 0,003175 0,00478 0,007181 0,010772 0,016134 0,024124 0,025987 0,053515 0,079219 0,116502	0 0 1 1 2 3 4 5 9 14 21 32 47 71		1/2 α-R
0,0004 0,0005 0,0008 0,0012 0,0018 0,0027 0,0041 0,0061 0,0091 0,0135 0,0204 0,0303 0,0450 0,0663 0,0969 0,1401	100 100 100 100 100 100 100 100 100 100	0,000134 0,000202 0,000305 0,000459 0,001035 0,001355 0,002332 0,003494 0,00782 0,00782 0,017371 0,02758 0,037979 0,05554 0,080264	0 0 1 1 2 3 5 7 11 15 24 35 53 80 120 180	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2α-1	0,0004 0,0007 0,0010 0,0016 0,0024 0,0037 0,0055 0,0083 0,0125 0,0188 0,0282 0,0188 0,0282 0,0421 0,0628 0,0934 0,0934 0,2933 0,2962 0,4257	100 100 100 100 100 100 100 100 100 100	0,000148 0,000242 0,000384 0,000595 0,000913 0,00139 0,002105 0,003175 0,003175 0,00478 0,00478 0,004781 0,016134 0,024124 0,035987 0,053515 0,079219 0,116502 0,169711	0 0 1 1 2 3 4 6 9 14 21 32 47 71 106		1/2 α-R
0,0004 0,0005 0,0008 0,0012 0,0012 0,0027 0,0041 0,0061 0,0091 0,0136 0,0204 0,0303 0,0450 0,0663 0,0969 0,1401 0,0391 0,2764	100 100 100 100 100 100 100 100 100 100	0,000134 0,000202 0,000305 0,000459 0,00069 0,001355 0,002332 0,003454 0,00523 0,00782 0,00782 0,017371 0,025758 0,037979 0,05554 0,080264 0,11406 0,158362	0 0 1 1 2 3 5 7 11 16 24 35 53 80 120 180 269 404	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 α-	0,0004 0,0007 0,0010 0,0016 0,0024 0,0037 0,0055 0,0083 0,0125 0,0083 0,0125 0,0083 0,0125 0,0083 0,0125 0,0282 0,0421 0,0628 0,0934 0,033 0,2962 0,4257 0,6001	100 100 100 100 100 100 100 100 100 100	0,000148 0,000242 0,000384 0,000595 0,000913 0,002105 0,003175 0,00478 0,007181 0,010772 0,016134 0,024124 0,035987 0,035915 0,079219 0,116502 0,1659711 0,24388 0,343827	0 0 1 1 2 3 4 5 9 14 21 32 47 71 105 160 239		1/2 α-R
0,0004 0,0005 0,0008 0,0012 0,0018 0,0027 0,0041 0,0061 0,0091 0,0136 0,0204 0,0303 0,0450 0,0663 0,0663 0,0663 0,0663 0,0663 0,0663 0,0663 0,0663 0,0663 0,0663 0,0663 0,0059 0,1401 0,1401 0,2764 0,3720	100 100 100 100 100 100 100 100 100 100	0,000134 0,000202 0,000305 0,000459 0,001035 0,001555 0,002332 0,003454 0,00523 0,00782 0,00782 0,017371 0,025758 0,037979 0,05554 0,08264 0,11406 0,158362 0,213162	0 0 1 1 2 3 5 7 11 16 24 35 53 80 120 180 269 404 606	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 α-1	0,0004 0,0007 0,0016 0,0024 0,0037 0,0055 0,0083 0,0125 0,0083 0,0125 0,0188 0,0282 0,0421 0,0628 0,0934 7 0,1383 0,2033 0,2962 0,4257 0,6001 0,8242	100 100 100 100 100 100 100 100 100 100	0,000148 0,000242 0,000384 0,000595 0,000139 0,002105 0,003175 0,00478 0,007181 0,007781 0,007781 0,010772 0,016134 0,024124 0,035987 0,053515 0,079219 0,116502 0,169711 0,24388 0,343827 0,47223	0 0 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359		1/2 α-R
0,0004 0,0005 0,0008 0,0012 0,0018 0,0027 0,0041 0,0061 0,0091 0,0136 0,0204 0,0303 0,0450 0,0663 0,0969 0,1401 0,1991 0,2764 0,3720 0,4815	100 100 100 100 100 100 100 100 100 100	0,000134 0,000202 0,000305 0,000459 0,00135 0,001355 0,002332 0,003454 0,00523 0,00782 0,00782 0,00782 0,01167 0,017371 0,025758 0,037979 0,05554 0,080264 0,11406 0,158362 0,213162 0,275862	0 0 1 1 2 3 5 7 11 15 24 35 53 80 120 180 269 404 606 909	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 α-	0,0004 0,0007 0,0016 0,0024 0,0037 0,0055 0,0083 0,0125 0,0188 0,0282 0,0421 0,0628 0,0934 7 0,1383 0,2932 0,2932 0,2962 0,4257 0,6001 0,8242 1,0939	100 100 100 100 100 100 100 100 100 100	0,000148 0,000242 0,000393 0,00139 0,002105 0,003175 0,00478 0,007181 0,010772 0,016134 0,024124 0,024124 0,025987 0,035987 0,035985 0,079219 0,116502 0,169711 0,24388 0,343827 0,47223 0,625711	0 0 1 1 2 3 4 5 9 14 21 32 47 71 105 160 239 359 539		1/2 α-R
0,0004 0,0005 0,0008 0,0012 0,0018 0,0027 0,0041 0,0061 0,0091 0,0136 0,0204 0,0303 0,0450 0,0663 0,0969 0,1401 0,2764 0,3720 0,4815 0,5948	100 100 100 100 100 100 100 100 100 100	0,000134 0,000202 0,000305 0,000459 0,001035 0,001355 0,002332 0,003494 0,00523 0,00782 0,01787 0,017371 0,025758 0,037979 0,055554 0,080264 0,11406 0,158362 0,215862 0,215862 0,23662	0 0 1 1 2 3 5 7 11 15 24 35 53 80 120 180 269 404 606 909 1364	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2α-	0,0004 0,0007 0,0016 0,0024 0,0037 0,0055 0,0083 0,0125 0,0188 0,0282 0,0421 0,0628 0,0421 0,0628 0,0934 7 0,1383 0,2962 0,4257 0,6001 0,8242 1,0939 1,3913	100 100 100 100 100 100 100 100 100 100	0,000148 0,000242 0,000384 0,000595 0,000913 0,00139 0,002105 0,003175 0,003175 0,00478 0,00478 0,00478 0,00478 0,00478 0,004718 0,00478000000000000000000000000000000000	0 0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 808		1/2 α-R
0,0004 0,0005 0,0008 0,0012 0,0013 0,0027 0,0041 0,0091 0,0136 0,0204 0,0303 0,0450 0,0450 0,0663 0,0663 0,0663 0,0663 0,0663 0,0663 0,0663 0,0663 0,0663 0,0663 0,0663 0,0764 0,1401 0,1991 0,2764 0,3720 0,4815 0,5988	100 100 100 100 100 100 100 100 100 100	0,000134 0,000202 0,000305 0,000459 0,001035 0,001355 0,002332 0,003494 0,00523 0,00782 0,01157 0,017371 0,025758 0,037979 0,05554 0,080264 0,118362 0,215862 0,340764 0,400398	0 0 1 1 2 3 5 7 11 15 24 35 53 80 120 180 269 404 606 909 1354 2045	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 α-	0,0004 0,0007 0,0010 0,0016 0,0024 0,0037 0,0055 0,0083 0,0125 0,0188 0,0282 0,0421 0,0628 0,0934 0,0383 0,2932 0,2932 0,2932 0,2952 0,4257 0,6001 0,8242 1,0939 1,3913 1,6854	100 100 100 100 100 100 100 100 100 100	0,000148 0,000242 0,000384 0,000595 0,000913 0,00139 0,002105 0,003175 0,00478 0,00478 0,007181 0,016134 0,024124 0,035987 0,053515 0,079219 0,116502 0,169711 0,24388 0,343827 0,47223 0,526711 0,797075 0,96555	0 0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 808 1212		1/2 α-R
0,0004 0,0005 0,0008 0,0012 0,0013 0,0027 0,0041 0,0061 0,0091 0,0136 0,0204 0,0303 0,0450 0,0450 0,0450 0,0450 0,0450 0,0450 0,0450 0,0450 0,0450 0,0450 0,0450 0,0450 0,0450 0,0450 0,0450 0,0450 0,027 0,0041 0,0027 0,0012 0,0027 0,0041 0,0027 0,0041 0,0050 0,0050 0,00000000	100 100 100 100 100 100 100 100 100 100	0,000134 0,000202 0,000305 0,000459 0,001035 0,001355 0,002332 0,003494 0,00523 0,00782 0,01157 0,017371 0,025758 0,037979 0,05554 0,080254 0,11406 0,158362 0,213162 0,213162 0,275862 0,340764 0,400398 0,449004	0 0 1 1 2 3 5 7 11 16 24 35 53 80 120 180 269 404 606 909 1354 2045 3068	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 α-	0,0004 0,0007 0,0010 0,0016 0,0024 0,0037 0,0055 0,0083 0,0125 0,0188 0,0282 0,0421 0,0628 0,034 0,0628 0,0934 0,2033 0,2962 0,4257 0,6001 0,8242 1,0939 1,3913 1,6854 1,9426	100 100 100 100 100 100 100 100 100 100	0,000148 0,000242 0,000384 0,000595 0,000133 0,00139 0,002105 0,003175 0,00478 0,007181 0,010772 0,016134 0,024124 0,035987 0,053515 0,079219 0,116502 0,165711 0,24388 0,343827 0,47223 0,626711 0,797076 0,96555 1,112911	0 0 1 1 2 3 4 5 9 14 21 32 47 71 105 160 239 359 539 808 2212 1818	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 α-R
0,0004 0,0005 0,0008 0,0012 0,0013 0,0027 0,0041 0,0061 0,0091 0,0136 0,0204 0,0303 0,0450 0,0663 0,0969 0,1401 0,2764 0,3720 0,2764 0,3720 0,4815 0,5948 0,5948 0,7837 0,8484	100 100 100 100 100 100 100 100 100 100	0,000134 0,000202 0,000305 0,000459 0,001035 0,001355 0,002332 0,003454 0,00523 0,00782 0,00782 0,017371 0,025758 0,037979 0,05554 0,080264 0,11406 0,158362 0,213162 0,213162 0,213162 0,21362 0,21362 0,21362 0,21362	0 0 1 1 2 3 5 7 11 16 24 35 53 80 120 180 269 404 606 909 1366 205 8 3058 4602	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 α-1	0,0004 0,0007 0,0010 0,0016 0,0024 0,0037 0,0055 0,0083 0,0125 0,0083 0,0125 0,0083 0,0282 0,0421 0,0628 0,0934 0,0383 0,2962 0,4257 0,6001 0,8242 1,0939 1,3913 1,6854 1,9426 2,1451	100 100 100 100 100 100 100 100 100 100	0,000148 0,000242 0,000384 0,000595 0,000133 0,00139 0,002105 0,003175 0,00478 0,007181 0,010772 0,016134 0,024124 0,035987 0,035915 0,079219 0,116502 0,165711 0,24388 0,343827 0,47223 0,626711 0,797076 0,96555 1,112911 1,228886	0 0 1 1 2 3 4 5 9 14 21 32 47 71 105 160 239 359 539 808 1212 1818 2727		1/2 α-R
0,0004 0,0005 0,0008 0,0012 0,0013 0,0027 0,0041 0,0061 0,0091 0,0136 0,0204 0,0303 0,0450 0,0450 0,0450 0,0450 0,0450 0,0450 0,0450 0,0450 0,0450 0,0450 0,0450 0,0450 0,0450 0,0450 0,0450 0,0450 0,027 0,0041 0,0027 0,0012 0,0027 0,0041 0,0027 0,0041 0,0050 0,0050 0,00000000	100 100 100 100 100 100 100 100 100 100	0,000134 0,000202 0,000305 0,000459 0,001035 0,001355 0,002332 0,003494 0,00523 0,00782 0,01157 0,017371 0,025758 0,037979 0,05554 0,080254 0,11406 0,158362 0,213162 0,213162 0,275862 0,340764 0,400398 0,449004	0 0 1 1 2 3 5 7 11 16 24 35 53 80 120 180 269 404 606 909 1354 2045 3068	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2α-	0,0004 0,0007 0,0010 0,0016 0,0024 0,0037 0,0055 0,0083 0,0125 0,0188 0,0282 0,0421 0,0628 0,034 0,0628 0,0934 0,2033 0,2962 0,4257 0,6001 0,8242 1,0939 1,3913 1,6854 1,9426	100 100 100 100 100 100 100 100 100 100	0,000148 0,000242 0,000384 0,000595 0,000133 0,00139 0,002105 0,003175 0,00478 0,007181 0,010772 0,016134 0,024124 0,035987 0,053515 0,079219 0,116502 0,165711 0,24388 0,343827 0,47223 0,626711 0,797076 0,96555 1,112911	0 0 1 1 2 3 4 5 9 14 21 32 47 71 105 160 239 359 539 808 2212 1818	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 α-R
0,0004 0,0005 0,0008 0,0012 0,0013 0,0027 0,0041 0,0061 0,0091 0,0136 0,0204 0,0303 0,0450 0,0663 0,0969 0,1401 0,2764 0,3720 0,2764 0,3720 0,4815 0,5948 0,5948 0,7837 0,8484	100 100 100 100 100 100 100 100 100 100	0,000134 0,000202 0,000305 0,000459 0,001035 0,001355 0,002332 0,003454 0,00523 0,00782 0,00782 0,017371 0,025758 0,037979 0,05554 0,080264 0,11406 0,158362 0,213162 0,213162 0,213162 0,21362 0,21362 0,21362 0,21362	0 0 1 1 2 3 5 7 11 16 24 35 53 80 120 180 269 404 606 909 1366 205 8 3058 4602	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 α-	0,0004 0,0007 0,0010 0,0016 0,0024 0,0037 0,0055 0,0083 0,0125 0,0083 0,0125 0,0083 0,0282 0,0421 0,0628 0,0934 0,0383 0,2962 0,4257 0,6001 0,8242 1,0939 1,3913 1,6854 1,9426 2,1451	100 100 100 100 100 100 100 100 100 100	0,000148 0,000242 0,000384 0,000595 0,000133 0,00139 0,002105 0,003175 0,00478 0,007181 0,010772 0,016134 0,024124 0,035987 0,035915 0,079219 0,116502 0,165711 0,24388 0,343827 0,47223 0,626711 0,797076 0,96555 1,112911 1,228886	0 0 1 1 2 3 4 5 9 14 21 32 47 71 105 160 239 359 539 808 1212 1818 2727	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 α-R
0,0004 0,0005 0,0008 0,0012 0,0013 0,0027 0,0041 0,0061 0,0091 0,0136 0,0204 0,0303 0,0450 0,0663 0,0303 0,0450 0,0663 0,0663 0,0663 0,0663 0,0663 0,0663 0,0663 0,0663 0,0450 0,0563 0,0450 0,0563 0,0563 0,0576 0,0563 0,0563 0,0563 0,0576 0,0563 0,0563 0,0563 0,0576 0,0563 0,0563 0,0576 0,0576 0,0563 0,0563 0,0576 0,0576 0,0563 0,0563 0,0576 0,05770 0,0576 0,05770 0,0576 0,05770 0,0576 0,05770 0,0576 0,05770 0,0576 0,05770 0,05770 0,05770 0,057700 0,057700 0,05770000000000	100 100 100 100 100 100 100 100 100 100	0,000134 0,000202 0,000305 0,000459 0,001035 0,001555 0,002332 0,003454 0,00523 0,00782 0,00782 0,017371 0,025758 0,017371 0,025758 0,037979 0,05554 0,080264 0,11406 0,158362 0,215862 0,213162 0,275862 0,340764 0,400398 0,449004 0,486065 0,516571	0 0 1 1 2 3 5 7 11 16 24 35 53 80 120 180 269 404 606 909 1354 2058 4045 3058 4602 6903	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 α-	0,0004 0,0007 0,0016 0,0024 0,0037 0,0055 0,0083 0,0125 0,0083 0,0125 0,0083 0,0125 0,0083 0,0282 0,0421 0,0628 0,0934 0,0383 0,2962 0,4257 0,6001 0,8242 1,0939 1,3913 1,6854 1,9426 2,1451 2,3025	100 100 100 100 100 100 100 100 100 100	0,000148 0,000242 0,000393 0,00139 0,002105 0,003175 0,00478 0,007181 0,010772 0,016134 0,024124 0,024124 0,024124 0,035987 0,035515 0,079219 0,116502 0,169711 0,24388 0,343827 0,47223 0,626711 0,797076 0,96555 1,112911 1,228885 1,318997	0 0 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<u>1/2 α-R</u>
0,0004 0,0005 0,0008 0,0012 0,0013 0,0027 0,0041 0,0091 0,0135 0,0204 0,0303 0,0450 0,0450 0,0450 0,0450 0,0663 0,0959 0,1401 0,1991 0,2764 0,3720 0,4815 0,5948 0,5988 0,7837 0,8484 0,9016 0,9557 1,0197	100 100 100 100 100 100 100 100 100 100	0,000134 0,000202 0,000305 0,000459 0,001035 0,001355 0,002332 0,003494 0,00523 0,00732 0,00732 0,00732 0,007371 0,027578 0,037979 0,05554 0,080264 0,11406 0,158362 0,215862 0,340764 0,400398 0,449004 0,465065 0,516571 0,577544 0,577544	0 0 1 1 2 3 5 7 11 15 24 35 53 80 120 180 269 404 606 909 1354 2045 3068 4602 6903 10355 15532	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2α-	0,0004 0,0007 0,0010 0,0016 0,0024 0,0037 0,0055 0,0083 0,0125 0,0188 0,0282 0,0421 0,0628 0,0934 0,038 0,2932 0,4257 0,6001 0,8242 1,0939 1,3913 1,6854 1,9426 2,1451 2,3025 2,4447 2,6027	100 100 100 100 100 100 100 100 100 100	0,000148 0,000242 0,000384 0,000595 0,000913 0,00139 0,002105 0,003175 0,003175 0,003175 0,003175 0,003172 0,015134 0,024124 0,035987 0,035987 0,035987 0,115502 0,169711 0,24388 0,343827 0,47223 0,525711 0,797075 0,96555 1,112911 1,228885 1,318997 1,400414 1,490901	0 0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091 6135 9204	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 α-R
0,0004 0,0005 0,0008 0,0012 0,0012 0,0014 0,0027 0,0041 0,0091 0,0136 0,0204 0,0303 0,0450 0,0051 0,0050 0,00000000	100 100 100 100 100 100 100 100 100 100	0,000134 0,000202 0,000305 0,000459 0,001035 0,001355 0,002332 0,003494 0,00523 0,00782 0,01157 0,017371 0,025758 0,037979 0,05554 0,037979 0,05554 0,0380264 0,11406 0,158362 0,275862 0,340754 0,400398 0,449004 0,486065 0,547544 0,584225 0,584225	0 0 1 1 2 3 5 7 1 1 5 3 5 7 1 1 5 3 5 3 3 0 1 2 6 9 0 1 3 6 4 0 4 0 4 6 0 6 9 9 9 1 3 6 4 2 4 5 3 8 0 1 20 3 5 5 7 1 1 1 2 4 3 5 5 7 7 1 1 1 5 7 7 1 1 1 5 7 7 1 1 1 5 7 7 1 1 1 5 7 7 1 1 1 5 7 7 1 1 1 5 7 7 1 1 1 5 7 7 1 1 1 5 7 7 1 1 1 5 7 7 1 1 1 5 7 7 1 1 1 5 7 7 1 1 1 5 7 7 1 1 1 5 7 7 1 1 1 5 7 7 1 1 1 5 7 7 1 1 1 5 7 7 1 1 1 5 7 7 1 1 1 5 7 7 1 1 1 5 7 7 8 0 1 2 4 1 5 9 1 2 0 1 1 1 1 5 7 7 8 0 1 1 2 0 1 1 1 1 5 7 7 8 0 1 2 0 1 1 5 7 7 8 0 1 2 0 1 1 1 5 7 7 8 0 1 2 0 1 1 1 5 7 7 8 0 1 2 0 1 1 1 1 5 5 7 8 0 1 2 0 1 1 5 9 1 3 5 5 9 1 3 6 6 1 1 2 0 1 1 5 9 1 3 6 1 5 9 1 3 6 6 1 1 5 9 1 3 5 5 9 1 1 3 5 5 9 1 1 5 6 1 5 9 1 1 3 5 5 1 2 4 0 1 1 5 9 1 1 5 5 1 2 4 1 5 9 1 1 5 5 1 1 5 5 1 2 1 1 5 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2α-	0,0004 0,0007 0,0010 0,0016 0,0024 0,0037 0,0055 0,0083 0,0125 0,0188 0,0282 0,0421 0,0628 0,0934 0,0628 0,0934 0,2033 0,2962 0,4257 0,6001 0,8242 1,0939 1,3913 1,6854 1,9426 2,1451 2,3025 2,4447 2,6027 2,7947	100 100 100 100 100 100 100 100 100 100	0,000148 0,000242 0,000384 0,000595 0,000913 0,00139 0,002105 0,003175 0,00478 0,007181 0,016134 0,024124 0,035987 0,055915 0,079219 0,116502 0,169711 0,24388 0,343827 0,47223 0,626711 0,24388 0,343827 0,47223 0,626711 1,228886 1,318997 1,400414 1,490901 1,600828	0 0 1 1 2 3 4 6 9 14 21 32 47 71 105 150 239 359 539 808 1212 1818 2727 4091 6136 9204 13806	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 α-R
0,0004 0,0005 0,0008 0,0012 0,0013 0,0027 0,0041 0,0061 0,0091 0,0136 0,0204 0,0303 0,0450 0,0663 0,0969 0,1401 0,2764 0,3720 0,4815 0,5948 0,5988 0,7837 0,8484 0,9916 0,9557 1,0197 1,0970 1,1849	100 100 100 100 100 100 100 100 100 100	0,000134 0,000202 0,000305 0,000459 0,001035 0,001355 0,002332 0,003454 0,00523 0,00782 0,01157 0,017371 0,025758 0,037979 0,05554 0,080264 0,11406 0,158362 0,213162 0,213162 0,275862 0,340754 0,400398 0,449004 0,408085 0,516571 0,547544 0,584225 0,628492 0,678866	0 0 1 1 2 3 5 7 7 11 15 24 35 53 80 120 180 259 404 606 909 1364 2045 3068 4602 6903 10355 15532 23298 34947	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2α-	0,0004 0,0007 0,0010 0,0016 0,0024 0,0037 0,0055 0,0083 0,0125 0,0083 0,0125 0,0083 0,0125 0,0083 0,0282 0,0421 0,0628 0,0934 0,0383 0,2962 0,4257 0,6001 0,8242 1,0939 1,3913 1,5654 1,9426 2,1451 2,3025 2,4447 2,6027 2,7947 3,0225	100 100 100 100 100 100 100 100 100 100	0,000148 0,000242 0,000384 0,000595 0,000133 0,00139 0,002105 0,003175 0,00478 0,007181 0,010772 0,016134 0,024124 0,035987 0,035957 0,053515 0,079219 0,116502 0,165711 0,24388 0,343827 0,47223 0,625711 0,797076 0,96555 1,112911 1,228886 1,318997 1,400414 1,400901 1,600828 1,731255	0 0 1 1 2 3 4 5 9 14 21 32 47 71 105 160 239 359 539 808 1212 1818 2727 4091 6136 9204 13806 20709	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 α-R
0,0004 0,0005 0,0008 0,0012 0,0013 0,0027 0,0041 0,0061 0,0091 0,0136 0,0204 0,0303 0,0450 0,0450 0,0663 0,0969 0,1401 0,2764 0,3720 0,4815 0,5948 0,5948 0,5948 0,5948 0,5948 0,5948 0,5948 0,5948 0,5948 0,5948 0,5948	100 100 100 100 100 100 100 100 100 100	0,000134 0,000202 0,000305 0,000459 0,001035 0,001555 0,002332 0,003454 0,00523 0,00782 0,017371 0,025758 0,017371 0,025758 0,017371 0,025758 0,037979 0,05554 0,080254 0,11405 0,11405 0,158362 0,213162 0,275862 0,340764 0,440004 0,448005 0,516571 0,547544 0,548255 0,628492 0,6788865 0,73094	0 0 1 1 2 3 5 7 11 16 24 35 53 80 120 180 269 404 606 909 1366 404 606 909 1364 2045 3068 4602 6903 10355 15532 23298 34947 52420	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 α-1	0,0004 0,0007 0,0016 0,0024 0,0037 0,0055 0,0083 0,0125 0,0083 0,0125 0,0083 0,0282 0,0421 0,0628 0,0934 0,0383 0,2962 0,4257 0,6001 0,8242 1,0939 1,3913 1,6854 1,9426 2,1451 2,3025 2,4447 2,6027 2,7947 3,0225 3,2728	100 100 100 100 100 100 100 100 100 100	0,000148 0,000242 0,000393 0,00139 0,002105 0,003175 0,00478 0,007181 0,010772 0,016134 0,024124 0,024124 0,024124 0,025987 0,035515 0,079219 0,116502 0,169711 0,24388 0,343827 0,47223 0,626711 0,797075 0,96555 1,112911 1,228885 1,318997 1,400414 1,499001 1,600828 1,731255 1,874479	0 0 1 1 2 3 4 5 9 14 21 32 47 71 105 160 239 359 539 808 1212 1818 2727 4091 6135 9204 13805 20709 31064	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<u>1/2 α-R</u>
0,0004 0,0005 0,0008 0,0012 0,0018 0,0027 0,0041 0,0061 0,0091 0,0136 0,0204 0,0303 0,0450 0,0663 0,0303 0,0450 0,0663 0,0303 0,0450 0,0663 0,0303 0,0450 0,0563 0,0574 0,5764 0,5764 0,5764 0,5988 0,5988 0,5988 0,5988 0,5957 1,0970 1,0970 0,915 0,5988 0,5988 0,5957 1,0970 1,0970 0,5977 0,5988 0,5988 0,5977 0,5978 0,5977 0,5978 0,5977 0,5978 0,5977 0,5978 0,5977 0,5977 0,5978 0,5977 0,5978 0,5977 0,5978 0,5977 0,5978 0,5977 0,5978 0,5977 0,5978 0,5977 0,5978 0,5977 0,5978 0,5977 0,5978 0,5977 0,5978 0,5977 0,59750000000000000000000000000000000000	100 100 100 100 100 100 100 100 100 100	0,000134 0,000305 0,000305 0,000305 0,00135 0,00135 0,001355 0,002332 0,003494 0,00523 0,00782 0,01787 0,017371 0,025758 0,037979 0,05554 0,080264 0,11406 0,158362 0,275862 0,275862 0,275862 0,275862 0,340764 0,400398 0,446065 0,516571 0,547544 0,584225 0,584225 0,584225 0,578865 0,73934 0,77831	0 0 1 1 2 3 5 7 1 1 1 5 2 4 35 5 3 8 0 120 180 269 404 606 909 1364 2045 3068 4602 6903 1364 2045 3068 4602 6903 13555 15532 23298 34947 552420 78530	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2α-1	0,0004 0,0007 0,0010 0,0016 0,0024 0,0037 0,0055 0,0083 0,0125 0,0188 0,0282 0,0421 0,0628 0,0421 0,0628 0,0934 0,2933 0,2962 0,4257 0,6001 0,8242 1,0939 1,3913 1,6854 1,9426 2,3425 2,3425 2,3447 2,5027 2,7947 3,0225 3,2728 3,5194	100 100 100 100 100 100 100 100 100 100	0,000148 0,000242 0,000393 0,00139 0,00139 0,002105 0,003175 0,00478 0,007181 0,007181 0,007181 0,00478 0,007181 0,00478 0,003515 0,079219 0,116502 0,169711 0,24388 0,343827 0,47223 0,625711 0,797076 0,96556 1,112911 1,228886 1,318997 1,400414 1,430901 1,600828 1,731255 1,874479 2,01563	0 0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 277 4091 6136 9204 13806 20709 31064 46596	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 α-R
0,0004 0,0005 0,0008 0,0012 0,0013 0,0027 0,0041 0,0091 0,0135 0,0204 0,0303 0,0450 0,041 0,0050 0,0050 0,00000000	100 100 100 100 100 100 100 100 100 100	0,000134 0,000202 0,000305 0,000305 0,000459 0,001035 0,001355 0,002332 0,003494 0,00523 0,00382 0,01167 0,017371 0,025758 0,037979 0,05554 0,080264 0,11406 0,158362 0,213862 0,213162 0,275862 0,340764 0,449004 0,460059 0,516571 0,547544 0,584225 0,528452 0,52844 0,528452	0 0 1 1 2 3 5 7 11 15 24 35 53 80 120 180 269 404 606 909 1364 2045 3068 4602 6903 1364 2045 3068 4602 6903 115552 23298 34947 52420 78530 117945	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 α-	0,0004 0,0007 0,0016 0,0016 0,0024 0,0037 0,0055 0,0083 0,0125 0,0188 0,0282 0,0421 0,0628 0,0421 0,0628 0,0934 0,2033 0,2962 0,4257 0,6001 0,8242 1,0939 1,3913 1,6854 1,9426 2,1451 2,3025 2,4447 2,6027 2,7947 3,0225 3,2728 3,5194 3,7304	100 100 100 100 100 100 100 100 100 100	0,000148 0,000242 0,000384 0,000595 0,000913 0,00139 0,002105 0,003175 0,003175 0,003175 0,003175 0,003175 0,003175 0,003175 0,003515 0,079219 0,116502 0,169711 0,24388 0,343827 0,47223 0,525711 0,797075 0,96555 1,112911 1,228886 1,318997 1,400414 1,490901 1,500828 1,871255 1,871479 2,01553 2,136377	0 0 1 1 2 3 4 5 9 14 21 32 47 71 105 160 239 359 539 808 1212 1818 2727 4091 6135 9204 13805 20709 31054 46595 69893	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 α-R
0,0004 0,0005 0,0008 0,0012 0,0018 0,0027 0,0041 0,0061 0,0091 0,0136 0,0204 0,0303 0,0450 0,0663 0,0303 0,0450 0,0663 0,0303 0,0450 0,0663 0,0303 0,0450 0,0563 0,0574 0,5764 0,5764 0,5764 0,5988 0,5988 0,5988 0,5988 0,5957 1,0970 1,0970 0,915 0,5988 0,5988 0,5957 1,0970 1,0970 0,5977 0,5988 0,5988 0,5977 0,5978 0,5977 0,5978 0,5977 0,5978 0,5977 0,5978 0,5977 0,5977 0,5978 0,5977 0,5978 0,5977 0,5978 0,5977 0,5978 0,5977 0,5978 0,5977 0,5978 0,5977 0,5978 0,5977 0,5978 0,5977 0,5978 0,5977 0,5978 0,5977 0,59750000000000000000000000000000000000	100 100 100 100 100 100 100 100 100 100	0,000134 0,000305 0,000305 0,000305 0,00135 0,00135 0,001355 0,002332 0,003494 0,00523 0,00782 0,01787 0,017371 0,025758 0,037979 0,05554 0,080264 0,11406 0,158362 0,275862 0,275862 0,275862 0,275862 0,340764 0,400398 0,446065 0,516571 0,547544 0,584225 0,584225 0,584225 0,578865 0,73934 0,77831	0 0 1 1 2 3 5 7 1 1 1 5 2 4 35 5 3 8 0 120 180 269 404 606 909 1364 2045 3068 4602 6903 1364 2045 3068 4602 6903 13555 15532 23298 34947 552420 78530	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2α-	0,0004 0,0007 0,0010 0,0016 0,0024 0,0037 0,0055 0,0083 0,0125 0,0188 0,0282 0,0421 0,0628 0,0421 0,0628 0,0934 0,2933 0,2962 0,4257 0,6001 0,8242 1,0939 1,3913 1,6854 1,9426 2,3425 2,3425 2,3447 2,5027 2,7947 3,0225 3,2728 3,5194	100 100 100 100 100 100 100 100 100 100	0,000148 0,000242 0,000393 0,00139 0,00139 0,002105 0,003175 0,00478 0,007181 0,007181 0,007181 0,00478 0,007181 0,00478 0,003515 0,079219 0,116502 0,169711 0,24388 0,343827 0,47223 0,625711 0,797076 0,96556 1,112911 1,228886 1,318997 1,400414 1,430901 1,600828 1,731255 1,874479 2,01563	0 0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 277 4091 6136 9204 13806 20709 31064 46596	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 α-Β
0,0004 0,0005 0,0008 0,0012 0,0013 0,0027 0,0041 0,0091 0,0135 0,0204 0,0303 0,0450 0,041 0,0050 0,0050 0,00000000	100 100 100 100 100 100 100 100 100 100	0,000134 0,000202 0,000305 0,000305 0,000459 0,001035 0,001355 0,002332 0,003494 0,00523 0,00382 0,01167 0,017371 0,025758 0,037979 0,05554 0,080264 0,11406 0,158362 0,213862 0,213162 0,275862 0,340764 0,449004 0,460059 0,516571 0,547544 0,584225 0,528452 0,52844 0,528452	0 0 1 1 2 3 5 7 11 15 24 35 53 80 120 180 269 404 606 909 1364 2045 3068 4602 6903 1364 2045 3068 4602 6903 115552 23298 34947 52420 78530 117945	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2α-1	0,0004 0,0007 0,0016 0,0016 0,0024 0,0037 0,0055 0,0083 0,0125 0,0188 0,0282 0,0421 0,0628 0,0421 0,0628 0,0934 0,2033 0,2962 0,4257 0,6001 0,8242 1,0939 1,3913 1,6854 1,9426 2,1451 2,3025 2,4447 2,6027 2,7947 3,0225 3,2728 3,5194 3,7304	100 100 100 100 100 100 100 100 100 100	0,000148 0,000242 0,000384 0,000595 0,000913 0,00139 0,002105 0,003175 0,003175 0,003175 0,003175 0,003175 0,003175 0,003175 0,003515 0,079219 0,116502 0,169711 0,24388 0,343827 0,47223 0,525711 0,797075 0,96555 1,112911 1,228886 1,318997 1,400414 1,490901 1,500828 1,871255 1,871479 2,01553 2,136377	0 0 1 1 2 3 4 5 9 14 21 32 47 71 105 160 239 359 539 808 1212 1818 2727 4091 6135 9204 13805 20709 31054 46595 69893	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 α-R
0,0004 0,0005 0,0008 0,0012 0,0013 0,0027 0,0041 0,0061 0,0091 0,0136 0,0204 0,0303 0,0450 0,0051 0,0557 1,0197 1,0970 1,1849 1,2758 1,3585 1,4224 1,4629	100 100 100 100 100 100 100 100 100 100	0,000134 0,000202 0,000305 0,000459 0,001035 0,001355 0,002332 0,003494 0,00523 0,00782 0,017371 0,025758 0,037979 0,05554 0,080264 0,11406 0,158362 0,215862 0,340754 0,400398 0,449004 0,449004 0,449004 0,449004 0,449004 0,584225 0,516571 0,547544 0,584225 0,578865 0,79394 0,77831 0,814937 0,814937	0 0 1 1 2 3 5 7 1 1 5 2 4 3 5 3 3 0 1 2 0 1 8 0 1 2 0 1 8 0 1 20 1 8 0 1 20 1 8 0 2 6 9 0 9 1 3 5 4 0 4 0 4 0 2 6 9 4 0 4 5 5 5 3 8 0 1 20 1 1 1 5 5 7 1 1 1 5 5 7 1 1 1 5 5 7 1 1 1 5 5 7 1 1 1 5 5 7 1 1 1 5 5 7 1 1 1 5 5 7 7 1 1 5 5 7 7 1 1 5 5 5 3 8 0 1 20 1 20 1 20 1 20 1 20 1 20 1 20	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0004 0,0007 0,0010 0,0016 0,0024 0,0037 0,0055 0,0083 0,0125 0,0188 0,0282 0,0421 0,0628 0,0934 0,282 0,0934 0,2033 0,2962 0,4257 0,6001 0,8242 1,0939 1,3913 1,6854 1,9426 2,1451 2,24027 2,7947 3,0225 3,2728 3,5194 3,7304 3,8816	100 100 100 100 100 100 100 100 100 100	0,000148 0,000242 0,000384 0,000595 0,000913 0,00139 0,002105 0,003175 0,00478 0,007181 0,00478 0,007181 0,016134 0,024124 0,035987 0,05595 0,079219 0,116502 0,169711 0,24388 0,343827 0,47223 0,625711 0,797075 0,96556 1,112911 1,228885 1,318997 1,400414 1,490901 1,600828 1,731255 1,874479 2,01563 2,136377 2,222866	0 0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091 6136 9204 13806 20709 31064 46596 69893 104840	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 α-R
0,0004 0,0005 0,0008 0,0012 0,0013 0,0027 0,0041 0,0061 0,0091 0,0136 0,0204 0,0303 0,0450 0,0663 0,0663 0,0663 0,0663 0,0663 0,0663 0,0663 0,0663 0,0450 0,0450 0,0450 0,0450 0,0450 0,0450 0,0450 0,0450 0,0450 0,0450 0,0450 0,0450 0,0450 0,0450 0,0450 0,0244 0,0373 0,0450 0,0450 0,0450 0,0450 0,041 0,0057 0,041 0,0050 0,0050 0,000 0,000 0,000 0,00000000	100 100 100 100 100 100 100 100 100 100	0,000134 0,000202 0,000305 0,000459 0,00053 0,00135 0,001355 0,002332 0,003494 0,00523 0,00782 0,01157 0,017371 0,025758 0,037979 0,05554 0,080254 0,11406 0,158362 0,213162 0,213162 0,213162 0,213162 0,340754 0,400398 0,449004 0,486065 0,516571 0,547544 0,547254 0,584225 0,628492 0,678866 0,73934 0,77831 0,814937 0,8849548	0 0 1 1 2 3 5 7 1 1 1 5 2 4 3 5 3 3 5 3 3 0 1 2 6 9 0 1 3 6 4 0 4 0 4 0 6 0 6 9 0 9 1 3 6 4 2 0 9 1 3 6 4 2 6 9 4 0 4 5 5 3 8 0 1 2 0 1 2 4 3 5 5 3 8 0 1 2 4 3 5 5 3 8 0 1 2 4 3 5 5 3 8 0 1 2 0 1 8 0 1 2 4 3 5 5 3 8 0 1 20 1 3 5 5 3 8 0 1 20 1 8 0 1 20 1 8 0 1 20 1 8 0 1 20 1 8 0 1 20 1 8 0 1 20 1 8 0 1 20 1 8 0 1 20 1 8 0 1 20 1 8 0 1 20 1 8 0 1 20 1 8 0 1 20 1 8 0 1 20 1 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0004 0,0007 0,0010 0,0016 0,0024 0,0037 0,0055 0,0083 0,0125 0,0083 0,0125 0,0083 0,0125 0,0083 0,0282 0,0421 0,0628 0,0934 0,0934 0,2033 0,2962 0,4257 0,6001 0,8242 1,0939 1,9313 1,6854 1,9426 2,1451 2,3025 2,3025 2,4447 2,56027 2,7947 3,0225 3,5194 3,7304 3,8816 3,9686	100 100 100 100 100 100 100 100 100 100	0,000148 0,000242 0,000384 0,000595 0,000913 0,002105 0,003175 0,00478 0,007181 0,016134 0,024124 0,035987 0,05515 0,079219 0,116502 0,169711 0,24388 0,343827 0,47223 0,626711 0,24388 0,343827 0,47223 0,626711 1,228885 1,318997 1,400414 1,450901 1,600828 1,731255 1,874479 2,01563 2,136377 2,222866 2,272625	0 0 1 1 2 3 4 6 9 14 21 32 47 71 105 160 239 359 539 808 1212 1818 2727 4091 6136 9204 13806 20709 31064 46596 69893 104840 157260	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/2 α-Β

## WB-2-Cup

	time [sec.]	time (b)	Cun	Dirol [mm]	time l	0.01	time (h)	cun	Displ [mm]	time [sec.]	time (b)	Cun	Dirol [mm]	time [sec.]	time (b)	Cun
Displ [mm] 0,0001	0	0 une (n)	Cup	Displ [mm] 0,0001	0	ec.j	0	cup	0,0001	0	_ une (n) 0	Cup	Displ [mm] 0,0001	une [sec.] 0	une (n) 0	Cup
0,0001	1	0		0,0001	1		0		0,0001	1	0		0,0001	1	0	
0,0003	1	0		0,0003	1		ō		0,0003	1	ő		0,0003	1	0	
0,0004	1	ō		0,0004	1		ō		0,0004	1	ő		0,0004	1	o	
0,0007	2	0		0,0005	2		0		0,0005	2	0		0,0007	2	0	
0,0010	3	0		0,0009	3		0		0,0010	3	0		0,0010	3	0	
0,0015	4	0		0,0013	4		0		0,0015	4	0		0,0015	4	0	
0,0023	5	0		0,0020	6		0		0,0022	5	0		0,0022	5	0	
0,0034	9	0		0,0030	9		0		0,0033	9	0		0,0033	9	0	
0,0051	14	0		0,0044	14		0		0,0049	14	0		0,0049	14	0	
0,0076	21	0		0,0065	21		0		0,0073	21	0		0,0074	21	0	
0,0113	32	0		0,0099	32		0		0,0109	32	0		0,0110	32	0	
0,0167	47	0		0,0145	47		0		0,0161	47	0		0,0153	47	0	
0,0246	71	0		0,0216	71		0		0,0238	71	0		0,0240	71	0	
0,0360	105	0		0,0317	100	;	0		0,0348	105	0		0,0350	105	0	
0,0520	160	0		0,0458	160	1	0		0,0502	150	0		0,0504	150	0	
0,0738	239	0	E-reference	0,0653	235	•	0	1/2 E-L	0,0713	239	0	1/2 E-R	0,0714	239	0	1/2 E-T
0,1024	359	0		0,0911	359	•	0		0,0990	359	0		0,0987	359	0	
0,1377	539	0		0,1233	535	•	0		0,1332	539	0		0,1321	539	0	
0,1781	808	0		0,1607	808		0		0,1724	808	0		0,1700	808	0	
0,2201	1212	0		0,2003	121		0		0,2133	1212	0		0,2089	1212	0	
0,2589	1818	1		0,2375	181		1		0,2511	1818	1		0,2443	1818	1	
0,2904	2727	1		0,2683	272		1		0,2818	2727	1		0,2726	2727	1	
0,3131	4091	1		0,2915	409		1		0,3041	4091	1		0,2923	4091	1	
0,3290	6136	2		0,3090	613		2		0,3199	6136	2		0,3052	6136	2	
0,3419	9204	3		0,3248	920		3		0,3328	9204	3		0,3145	9204	3	
0,3553	13805	4		0,3425	1380		4		0,3463	13805	4		0,3231	13806	4	
0,3711	20709	6		0,3638	2070		6		0,3623	20709	6		0,3329	20709	6	
0,3894	31064	9		0,3888	3100		9		0,3809	31064	9		0,3441	31064	9	
0,4090	46596	13		0,4155	4655		13		0,4009	46596	13		0,3562	46596	13	
0,4278	69893	19		0,4413	6985		19		0,4200	69893	19		0,3677	69893	19	
0,4434	104840	29		0,4626	1048		29		0,4358	104840	29		0,3772	104840	29	
0,4541	157260	44		0,4773	1572		44		0,4467	157260	44		0,3837	157260	44	
0,4500	235890	65		0,4854	2358		66		0,4527	235890	55		0,3873	235890	55	
0,4624 0,4632	353835 518400	98 144		0,4888	3538 5184		98 144		0,4552	353835 518400	98 144		0,3888	353835	98 144	
0,4052	516400	144		0,4898	3104		144		0,4559	516400	144		0,3892	518400	144	
Disclara																
Displ [mm]	time [sec.]	time (h)	Cup	Displ [mm]	time [	sec.]	time (h)	Cup	Displ [mm]	time [sec.]	time (h)	Cup	Displ [mm]	time [sec.]	time (h)	Cup
0,0001	time [sec.] 0	time (h) 0	Cup	Displ [mm] 0,0001	time ( 0	sec.]	time (h) 0	Cup	Displ [mm] 0,0001	time [sec.] 0	time (h) 0	Cup	Displ [mm] 0,0001	time [sec.] 0	time (h) 0	Cup
	1		Cup			sec.]		Cup				Cup		1		Cup
0,0001	0	0	Cup	0,0001	0	sec.]	0	Cup	0,0001	0	0	Cup	0,0001	0	0	Cup
0,0001 0,0002	0	0	Cup	0,0001 0,0002	0	sec.]	0 0	Cup	0,0001 0,0002	0	0	Cup	0,0001 0,0002	0	0	Cup
0,0001 0,0002 0,0003	0 1 1	0 0 0	Сир	0,0001 0,0002 0,0003	0 1 1	sec.]	0 0 0	Cup	0,0001 0,0002 0,0003	0 1 1	0 0 0	Cup	0,0001 0,0002 0,0003	0 1 1	0 0 0	Cup
0,0001 0,0002 0,0003 0,0004	0 1 1 1	0 0 0 0	Cup	0,0001 0,0002 0,0003 0,0005	0 1 1 1	sec.]	0 0 0 0	Cup	0,0001 0,0002 0,0003 0,0005	0 1 1 1	0 0 0 0	Сир	0,0001 0,0002 0,0003 0,0005	0 1 1 1	0 0 0 0 0 0	Cup
0,0001 0,0002 0,0003 0,0004 0,0007	0 1 1 1 2	0 0 0 0 0	Cup	0,0001 0,0002 0,0003 0,0005 0,0005 0,0007	0 1 1 2	sec.]	0 0 0 0 0	Cup	0,0001 0,0002 0,0003 0,0005 0,0007	0 1 1 1 2	0 0 0 0 0	Cup	0,0001 0,0002 0,0003 0,0005 0,0008	0 1 1 1 2	0 0 0 0 0	Cup
0,0001 0,0002 0,0003 0,0004 0,0007 0,0010 0,0015 0,0023	0 1 1 2 3 4 5	0 0 0 0 0 0 0 0 0	Cup	0,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0015 0,0024	0 1 1 2 3 4 6	sec.]	0 0 0 0 0 0 0 0	Cup	0,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0016 0,0024	0 1 1 2 3 4 5	0 0 0 0 0 0 0 0	Cup	0,0001 0,0002 0,0003 0,0005 0,0008 0,0011 0,0017 0,0025	0 1 1 1 2 3	0 0 0 0 0 0 0 0 0	Cup
0,0001 0,0002 0,0003 0,0004 0,0007 0,0010 0,0015 0,0023 0,0034	0 1 1 2 3 4 6 9	0 0 0 0 0 0 0 0 0	Cup	0,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0015 0,0024 0,0035	0 1 1 2 3 4 6 9		0 0 0 0 0 0 0 0	Cup	0,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0016 0,0024 0,0035	0 1 1 2 3 4 6 9	0 0 0 0 0 0 0 0 0	Сир	0,0001 0,0002 0,0003 0,0005 0,0008 0,0011 0,0017 0,0025 0,0038	0 1 1 2 3 4 6 9	0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cup
0,0001 0,0002 0,0003 0,0004 0,0007 0,0010 0,0015 0,0023 0,0034 0,0051	1 1 1 2 3 4 6 9 14	0 0 0 0 0 0 0 0 0 0 0 0	Cup	0,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0015 0,0024 0,0035 0,0054	0 1 1 2 3 4 6 9 9		0 0 0 0 0 0 0 0 0 0 0	Cup	0,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0016 0,0024 0,0023 0,0053	0 1 1 2 3 4 6 9 14	0 0 0 0 0 0 0 0 0 0 0 0	Сир	0,0001 0,0002 0,0003 0,0008 0,0008 0,0011 0,0017 0,0025 0,0038 0,0057	1 1 1 2 3 4 6 9 14	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cup
0,0001 0,0002 0,0003 0,0004 0,0007 0,0015 0,0015 0,0023 0,0034 0,0051 0,0076	0 1 1 2 3 4 6 9 14 21	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cup	0,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0015 0,0024 0,0035 0,0054 0,0054	0 1 1 2 3 4 6 9 9 1 2 1 2		0 0 0 0 0 0 0 0 0 0 0 0	Сир	0,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0016 0,0024 0,0035 0,0053 0,0079	0 1 1 2 3 4 6 9 14 21		Cup	0,0001 0,0002 0,0003 0,0005 0,0008 0,0011 0,0017 0,0025 0,0038 0,0057 0,0085	0 1 1 2 3 4 5 9 14 21	0 0 0 0 0 0 0 0 0 0 0 0 0 0	Сир
0,0001 0,0002 0,0003 0,0004 0,0007 0,0010 0,0015 0,0023 0,0031 0,0031 0,0031 0,0075 0,0113	0 1 1 2 3 4 6 9 14 21 32	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Сир	0,0001 0,0002 0,0003 0,0005 0,0007 0,0015 0,0024 0,0035 0,0024 0,0035 0,0054 0,0080 0,0120	0 1 1 2 3 4 6 9 9 14 22 23 32		0 0 0 0 0 0 0 0 0 0 0 0 0	Cup	0,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0016 0,0024 0,0035 0,0053 0,0079 0,0118	0 1 1 2 3 4 6 9 14 21 32		Cup	0,0001 0,0002 0,0003 0,0005 0,0008 0,0011 0,0017 0,0025 0,0038 0,0057 0,0085 0,0127	0 1 1 2 3 4 6 9 14 21 32	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cup
0,0001 0,0002 0,0003 0,0004 0,0007 0,0010 0,0015 0,0023 0,0034 0,0051 0,0076 0,0113 0,0167	0 1 1 2 3 4 6 9 14 21 32 47	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Сир	0,0001 0,0002 0,0003 0,0005 0,0007 0,00011 0,0015 0,0024 0,0035 0,0054 0,0054 0,0054 0,0054 0,0054 0,0054 0,0020 0,0177	0 1 1 1 3 3 4 6 9 9 14 21 21 32 32 4 4		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cup	0,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0016 0,0024 0,0035 0,0053 0,0053 0,0079 0,0118 0,0174	0 1 1 2 3 4 6 9 14 21 32 47		Cup	0,0001 0,0002 0,0003 0,0008 0,0008 0,0008 0,0007 0,0025 0,0038 0,0057 0,0085 0,0127 0,0189	0 1 1 2 3 4 6 9 14 21 32 47		Cup
0,0001 0,0002 0,0003 0,0004 0,0007 0,0010 0,0015 0,0023 0,0034 0,0051 0,0076 0,0113 0,0157 0,0245	0 1 1 2 3 4 6 9 14 21 32 47 71	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cup	0,0001 0,0002 0,0003 0,0005 0,0005 0,0005 0,0005 0,0005 0,0004 0,0035 0,0054 0,0080 0,0120 0,0120 0,0127 0,0252	0 1 1 2 3 4 6 9 9 1 2 1 2 1 3 3 3 7 7 7		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cup	0,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0016 0,0024 0,0035 0,0053 0,0079 0,0118 0,0174 0,0257	0 1 1 2 3 4 5 9 14 21 32 47 71	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cup	0,0001 0,0002 0,0003 0,0008 0,0008 0,0011 0,0017 0,0025 0,0038 0,0057 0,0085 0,0127 0,0189 0,0278	0 1 1 2 3 4 6 9 14 21 32 47 71	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cup
0,0001 0,0002 0,0003 0,0004 0,0007 0,0015 0,0015 0,0023 0,0034 0,0051 0,0076 0,0013 0,0076 0,0113 0,0167 0,0246 0,0350	0 1 1 2 3 4 6 9 14 21 32 47 71 105	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cup	6,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0016 0,0024 0,0035 0,0054 0,0054 0,0050 0,0120 0,0177 0,0252 0,0383	0 1 1 2 3 4 4 5 9 9 12 12 21 23 3 3 4 1 10 10	5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cup	0,0001 0,0002 0,0003 0,0005 0,0007 0,0016 0,0024 0,0035 0,0079 0,0018 0,0079 0,0118 0,0174 0,0257 0,0375	0 1 1 2 3 4 5 9 14 21 32 47 71 105	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cup	0,0001 0,0002 0,0003 0,0005 0,0008 0,0017 0,0025 0,0038 0,0057 0,0085 0,0127 0,0189 0,0127 0,0189 0,0278 0,0405	0 1 1 2 3 4 6 9 14 21 32 47 71 105	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cup
0,0001 0,0002 0,0003 0,0004 0,0007 0,0015 0,0015 0,0023 0,0034 0,0051 0,0076 0,0113 0,0157 0,0246 0,0350	0 1 1 2 3 4 5 9 14 21 32 47 71 106 160	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		6,0001 0,0002 0,0003 0,0005 0,0007 0,0001 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,000000	0 1 1 2 3 4 6 9 9 1 2 2 2 3 2 3 2 4 4 7 7 10 0 15	5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0016 0,0024 0,0035 0,0053 0,0079 0,0118 0,0174 0,0257 0,0375 0,0541	0 1 1 2 3 4 6 9 9 14 21 32 47 71 106 160	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0001 0,0017 0,0025 0,0038 0,0057 0,0085 0,0127 0,0189 0,0278 0,0127 0,0189 0,0278	0 1 1 2 3 4 5 9 14 21 32 47 71 106 150	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0001 0,0002 0,0003 0,0004 0,0007 0,0015 0,0015 0,0023 0,0031 0,0051 0,0071 0,0015 0,0015 0,0015 0,0015 0,0015 0,0015 0,0010 0,0020 0,00320 0,0038	0 1 1 2 3 4 6 9 14 21 32 47 71 106 239	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cup G-reference	0,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0015 0,0024 0,0035 0,0054 0,0054 0,0054 0,0080 0,0120 0,0177 0,0252 0,0383 0,0554 0,0788	0 1 1 2 3 4 4 5 9 9 12 2 3 2 3 7 7 10 10 16 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2	5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cup	0,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0016 0,0024 0,0035 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0001 0,0001 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0003 0,0002 0,0003 0,0005 0,0003 0,0005 0,0003 0,0005 0,00500000000	0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cup	0,0001 0,0002 0,0003 0,0005 0,0008 0,0011 0,0017 0,0025 0,0038 0,0057 0,0085 0,0127 0,0189 0,0278 0,0405 0,0405 0,06828	0 1 1 2 3 4 6 9 14 21 32 47 71 100 6 160 239	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cup
0,0001 0,0002 0,0003 0,0004 0,0007 0,0010 0,0015 0,0023 0,0034 0,0057 0,0113 0,0075 0,0113 0,0157 0,024 0,0520 0,0738 0,0520	0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		6,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0016 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0024 0,0025 2,0025 2,0025 0,0024 0,0025 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0003 0,0005 0,0005 0,0007 0,0007 0,0007 0,0007 0,0005 0,0007 0,0007 0,0005 0,0007 0,0005 0,0007 0,0005 0,0007 0,0005 0,0007 0,0005 0,0005 0,0007 0,0005 0,0054 0,0054 0,0052 0,005500000000	0 1 1 2 3 4 4 5 9 9 12 12 3 3 3 4 1 10 16 16 23 3 3 5 3 3 5	5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0007 0,0011 0,0016 0,0024 0,0035 0,0035 0,0079 0,0118 0,0079 0,0118 0,0174 0,0257 0,0375 0,0375 0,0375 0,0375	0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0008 0,0001 0,0007 0,0005 0,0005 0,0005 0,00085 0,0005 0,00085 0,00085 0,00127 0,0189 0,0278 0,0405 0,0628 0,0828 0,1145	0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0001 0,0002 0,0003 0,0004 0,0015 0,0015 0,0023 0,0031 0,0075 0,0031 0,0075 0,0015 0,0051 0,0075 0,0157 0,0245 0,05520 0,05520 0,0738 0,1024	0 1 1 2 3 4 6 9 14 21 32 47 71 100 239 359 539	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		6,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0015 0,0024 0,0036 0,0054 0,0080 0,0177 0,0252 0,0383 0,0554 0,0788 0,1095 0,1478	0 1 1 2 3 4 4 5 9 9 1 4 2 2 2 3 3 7 10 16 23 2 5 3 5 3	5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0015 0,00024 0,00035 0,00053 0,00053 0,00053 0,00053 0,00053 0,00079 0,0114 0,00257 0,0375 0,05541 0,0758 0,05541 0,0758 0,1427	0 1 1 2 3 4 6 9 14 21 32 47 71 105 160 239 359 539	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0001 0,0017 0,0025 0,0038 0,0057 0,0038 0,0057 0,0085 0,0127 0,0189 0,0278 0,0405 0,0585 0,0828 0,1146 0,1133	0 1 1 2 3 4 6 9 14 21 32 47 71 105 160 239 359 539	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0001 0,0002 0,0003 0,0004 0,0005 0,0015 0,0015 0,0025 0,00051 0,0075 0,0015 0,0015 0,0015 0,0015 0,0015 0,0015 0,0051 0,0051 0,0051 0,0051 0,0051 0,0004 0,0005 0,0004 0,0005 0,0004 0,0005 0,0004 0,0005 0,0005 0,0004 0,0005 0,0004 0,0005 0,0005 0,0004 0,0005 0,0005 0,0004 0,0005 0,0005 0,0004 0,0005 0,0004 0,0005 0,0004 0,0005 0,0005 0,0004 0,000500000000	0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 808	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		6,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0015 0,0024 0,0035 0,0054 0,0054 0,0054 0,0054 0,0120 0,0177 0,0252 0,0383 0,0554 0,0788 0,1095 0,1478 0,1919	0 1 1 2 3 4 4 6 9 9 14 2 2 3 2 4 4 7 7 10 16 16 2 3 5 5 3 5 8 8 8 8 8	- - - - - - - - - - 	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0005 0,0005 0,0001 0,00016 0,0002 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,000500000000	0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 888	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0008 0,0011 0,0017 0,0025 0,0038 0,0027 0,0085 0,0127 0,0189 0,0127 0,0189 0,0278 0,0127 0,0189 0,0278 0,0405 0,0585 0,0585 0,0582 0,0135 0,1145 0,1535	0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 808	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0001 0,0002 0,0003 0,0004 0,0015 0,0015 0,0015 0,0015 0,0015 0,0015 0,0015 0,0051 0,0051 0,0051 0,0050 0,0053 0,0052 0,0075 0,0026 0,0758 0,0026 0,0020 0,0002 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0015 0,000500000000	0 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539 808 1212	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0016 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0024 0,0024 0,0024 0,0025 0,0002 0,0007 0,0005 0,0007 0,0005 0,0007 0,0005 0,0007 0,000500000000	0 1 1 2 3 4 4 6 9 9 12 12 21 33 34 4 10 16 16 23 35 53 35 53 38 80 21 21	5			0,0001 0,0002 0,0003 0,0005 0,0005 0,0005 0,00015 0,00015 0,00015 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0007 0,00015 0,0007 0,0007 0,0005 0,0007 0,0005 0,0007 0,00015 0,0007 0,00015 0,0007 0,00015 0,0007 0,00015 0,0007 0,00015 0,0007 0,00015 0,0007 0,0015 0,0007 0,0015 0,0007 0,0015 0,0075 0,0000000000	0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 808 2122	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0008 0,0001 0,0007 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0002 0,0002 0,0001 0,0002 0,000000	0 1 1 2 3 4 6 9 14 21 32 47 71 106 150 239 359 539 808 1212	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0001 0,0002 0,0003 0,0004 0,0015 0,0015 0,0023 0,0031 0,0075 0,0023 0,0031 0,0075 0,0015 0,0051 0,0075 0,0157 0,0245 0,0550 0,05520 0,0738 0,02520 0,0738 0,02520 0,0738	0 1 1 2 3 4 6 9 14 21 32 47 71 106 239 359 808 1212 1818	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		6,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0015 0,0024 0,0036 0,0054 0,0036 0,0054 0,0036 0,0177 0,0252 0,0383 0,0554 0,0788 0,1095 0,1478 0,1919 0,2881 0,2812	0 1 1 2 3 4 4 5 9 9 1 2 2 2 3 3 7 10 16 2 3 3 5 3 3 5 3 80 121 181	5 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0015 0,0004 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0007 0,0001 0,0007 0,00000000	0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 808 1212 539 808	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0008 0,0011 0,0017 0,0025 0,0038 0,0057 0,0038 0,0057 0,0038 0,0127 0,0189 0,0278 0,0129 0,0278 0,0405 0,0585 0,0828 0,1145 0,1578 0,1578 0,2433 0,2433	0 1 1 2 3 4 6 9 14 21 32 47 71 106 239 359 808 1212 808 1212 1818	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0001 0,0002 0,0003 0,0004 0,0005 0,0015 0,0015 0,0023 0,0004 0,0005 0,0013 0,0005 0,0013 0,0005 0,0013 0,0005 0,0005 0,0005 0,0005 0,0005 0,0004 0,0005 0,0004 0,0005 0,0004 0,0005 0,0004 0,000500000000	0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 539 539 539 539 539 5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		6,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0015 0,0024 0,0035 0,0054 0,0054 0,0120 0,0177 0,0252 0,0383 0,0554 0,0788 0,1095 0,1478 0,1919 0,2381 0,2812 0,3155	0 1 1 2 3 4 4 6 9 9 1 2 2 3 2 4 4 2 2 3 2 3 2 3 2 3 2 3 2 3 2		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,000500000000	0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0001 0,0017 0,0025 0,0038 0,0027 0,0085 0,0127 0,0189 0,0127 0,0189 0,0278 0,0128 0,0278 0,0128 0,0405 0,0128 0,0405 0,01535 0,1146 0,1535 0,1978 0,2849 0,3182	0 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539 359 539 808 1212 1818 2727	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0001 0,0002 0,0003 0,0004 0,0007 0,0010 0,0015 0,0023 0,0034 0,0051 0,0051 0,0051 0,0051 0,0050 0,0050 0,0052 0,0052 0,0052 0,0052 0,0052 0,0052 0,0052 0,0052 0,0052 0,0052 0,0055 0,0055 0,0055 0,0055 0,0055 0,0005 0,0055 0,0055 0,0055 0,0055 0,0056 0,	0 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 808 1212 1818 2727 4091	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		6,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0015 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0002 0,0007 0,0001 0,0005 0,0007 0,0005 0,0007 0,0007 0,0007 0,0007 0,0007 0,0007 0,0007 0,0007 0,0007 0,0007 0,0007 0,0008 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0052 0,0052 0,005500000000	0 1 1 2 3 4 4 6 9 9 10 12 21 32 32 4 7 77 10 16 5 5 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5) >> >> >> >> >> >> >> >> >> >> >> >> >>	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0005 0,0001 0,00015 0,00015 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0007 0,0001 0,0007 0,00015 0,0007 0,0007 0,00015 0,0007 0,00015 0,0007 0,00015 0,0007 0,00015 0,0007 0,00015 0,0007 0,00015 0,0007 0,00015 0,0007 0,0015 0,0007 0,0015 0,0007 0,0015 0,0007 0,0015 0,0007 0,0015 0,0079 0,0015 0,0075 0,0075 0,0075 0,0076 0,0075 0,0076 0,0000000000	0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0008 0,0001 0,0025 0,0038 0,0025 0,0038 0,0027 0,0038 0,0037 0,0085 0,0085 0,0085 0,0085 0,00828 0,0127 0,0189 0,0278 0,0405 0,0405 0,0405 0,0405 0,0405 0,0405 0,0405 0,0405 0,0405 0,0405 0,0405 0,0405 0,0405 0,0405 0,0027 0,0003 0,0002 0,0003 0,0003 0,0005 0,0003 0,0003 0,0005 0,0003 0,0003 0,0005 0,0005 0,0003 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,00000000	0 1 1 2 3 4 5 9 14 21 32 47 71 105 160 239 539 808 1212 1818 2727 4091		
0,0001 0,0002 0,0003 0,0004 0,0015 0,0015 0,0021 0,0015 0,0021 0,0015 0,0021 0,0015 0,0021 0,0015 0,0015 0,0021 0,0015 0,0015 0,0021 0,0021 0,0021 0,0021 0,0002 0,0005 0,0002 0,0005 0,0052 0,0050 0,00000000	0 1 1 2 3 4 6 9 14 21 32 47 71 106 150 239 359 808 1212 1818 2727 4091 1615 160 239 359 539 808 1212 1818 2727 405 161	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		6,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0015 0,0024 0,0036 0,0054 0,0054 0,0054 0,0054 0,0054 0,0054 0,0050 0,0177 0,0552 0,0383 0,0554 0,0788 0,1095 0,1478 0,1919 0,2381 0,2812 0,3165 0,3615	0 1 1 2 3 4 4 5 9 9 1 4 7 7 1 2 2 3 3 5 3 1 6 1 5 3 8 0 0 1 2 2 3 5 3 8 0 0 1 2 2 3 5 3 8 0 0 1 2 3 5 3 8 0 0 1 1 1 2 2 3 3 4 4 5 9 9 1 2 3 3 4 4 5 9 9 1 2 3 3 3 1 2 3 3 3 3 3 3 4 4 5 9 9 1 2 3 3 3 3 3 3 4 4 5 9 9 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	5) >> >> >> 328716	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0015 0,0004 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0007 0,0001 0,0007 0,0001 0,0007 0,0000 0,0000 0,00000000	0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091 6136	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0001 0,0017 0,0025 0,0038 0,0057 0,0038 0,0057 0,0038 0,0127 0,0189 0,0278 0,0129 0,0284 0,0128 0,0128 0,0127 0,0189 0,0278 0,0405 0,0585 0,0585 0,0585 0,0585 0,0585 0,0585 0,1578 0,2849 0,3182 0,2849 0,3182 0,3572	0 1 1 2 3 4 6 9 14 21 32 47 71 106 150 239 359 808 1212 1818 2727 4091 1615 1615 1615 1818 1812 1818 1812 1818 1812 1818 1812 1818 1812 1818 181	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0001 0,0002 0,0003 0,0004 0,0005 0,0015 0,0025 0,00015 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0004 0,0005 0,0004 0,0005 0,0005 0,0004 0,0005 0,0005 0,0004 0,0005 0	0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 539 539 539 539 539 5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		6,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0016 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0035 0,0054 0,0035 0,0077 0,0252 0,0383 0,0054 0,00554 0,0778 0,1095 0,1478 0,1919 0,2381 0,2812 0,3165 0,3425 0,3615 0,3779	0 1 1 2 3 4 4 5 9 1 2 2 2 3 2 4 4 7 7 10 16 16 2 3 5 5 3 5 8 0 0 12 1 18 1 3 2 2 5 5 3 5 5 3 5 8 0 0 12 1 1 1 2 2 3 2 4 4 5 9 12 2 3 2 3 2 3 2 3 2 3 3 2 3 3 3 3 3 2 3 3 3 2 3	5))))))))))	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,	0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 359 539 808 1212 1818 2727 4091 6136 9204	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0005 0,0007 0,0025 0,0038 0,0027 0,0085 0,0127 0,0085 0,0127 0,0085 0,0127 0,0085 0,0127 0,0189 0,0278 0,0405 0,0027 0,0025 0,0008 0,000700000000	0 1 1 2 3 4 6 9 14 21 32 47 71 105 150 239 359 539 808 1212 1818 2727 4091 6136 9204	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0001 0,0002 0,0003 0,0004 0,0007 0,0010 0,0015 0,0003 0,0003 0,0005 0,0003 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0004 0,0005 0,0004 0,0007 0,0005 0,0004 0,0005 0,0004 0,0005 0,0004 0,0005 0,0004 0,0005 0,0005 0,0004 0,0005 0,0004 0,0005 0,0004 0,0005 0,00500000000	0 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 539 808 1212 1818 2727 4091 6136 9204 13805	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0015 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0024 0,0005 0,0007 0,0001 0,0005 0,0052 0,0052 0,005500000000	0 1 1 2 3 4 4 5 9 9 10 12 22 3 3 4 7 77 10 16 15 5 3 5 5 3 5 5 3 80 0 12 138 277 405 612 138	5) >>>> 28716406	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0007 0,00015 0,00015 0,0003 0,003 0,003 0,003 0,003 0,003 0,003 0,003 0,003 0,003 0,003 0,005 0,00000000	0 1 1 1 2 3 4 6 9 14 21 32 47 71 106 150 239 539 539 808 1212 1818 2727 4091 6136 9209 1329 1319 1329 1319 1321 1318 1329 1321 1318 1329 1329 1321 1318 1329 1329 1329 1318 1329 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0008 0,0001 0,0025 0,0025 0,0025 0,0025 0,0027 0,0038 0,0057 0,0085 0,0085 0,0085 0,0085 0,00828 0,0127 0,0189 0,0278 0,0405 0,0278 0,0405 0,0278 0,0405 0,0278 0,0405 0,0278 0,0405 0,0278 0,0405 0,0278 0,0405 0,02780 0,02780000000000000000000000000000000000	0 1 1 2 3 4 6 9 14 21 32 47 71 105 160 239 359 539 808 1212 1818 2727 4091 6136 9204 13805	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0001 0,0002 0,0003 0,0004 0,0005 0,00015 0,000500000000	0 1 1 1 2 3 4 6 9 14 32 47 71 106 150 239 359 539 808 1212 808 807 807 807 807 807 807 807	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0015 0,0024 0,0035 0,0054 0,0054 0,0054 0,0054 0,0054 0,0054 0,0177 0,0252 0,0383 0,0554 0,1095 0,1478 0,1919 0,2811 0,2811 0,3155 0,3425 0,3555 0,34157	0 1 1 2 3 4 4 6 5 9 9 1 2 2 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5) ) ) ) ) ) ) 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0005 0,0001 0,0001 0,0001 0,0003 0,00000000	0 1 1 1 2 3 4 5 9 14 6 15 9 14 12 32 47 71 106 160 160 160 130 6 165 181 181 181 181 195 195 105 105 105 105 105 105 105 10	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0008 0,0011 0,0017 0,0025 0,0038 0,0057 0,0085 0,0127 0,0085 0,0127 0,0189 0,0278 0,0189 0,0278 0,0189 0,0278 0,0405 0,0885 0,0885 0,0882 0,1146 0,1535 0,1978 0,2433 0,2439 0,3182 0,3182 0,3572 0,3687 0,3797 0,3923	0 1 1 2 3 4 6 9 14 21 32 47 71 106 180 239 359 539 808 1212 1818 2727 4091 1818 2727 4091 6135 9204 13805 13905 10	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0001 0,0002 0,0003 0,0004 0,00015 0,0015 0,0015 0,0015 0,0015 0,0015 0,0016 0,0016 0,0016 0,0016 0,0016 0,0016 0,0016 0,0016 0,0016 0,0016 0,0016 0,0016 0,0001 0,0004 0,0001 0,0004 0,0001 0,0004 0,0005 0,0004 0,0004 0,0005 0,0004 0,0005 0,0004 0,0005 0,0004 0,0005 0,0004 0,0005 0,0005 0,0004 0,0005 0,00500000000	0 1 1 2 3 4 5 9 14 21 32 47 71 106 160 160 139 359 359 359 359 359 359 308 1212 1818 2727 4091 6136 20709 13805 20709 31064	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0016 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0005 0,0007 0,0001 0,0007 0,0001 0,0007 0,0007 0,0001 0,0007 0,0001 0,0007 0,0007 0,0001 0,0007 0,0001 0,0007 0,0001 0,0007 0,0001 0,0007 0,0001 0,0007 0,0001 0,0007 0,0001 0,0007 0,0001 0,0007 0,0001 0,0007 0,0001 0,0005 0,0007 0,0001 0,0005 0,0007 0,0001 0,0005 0,0007 0,0001 0,0005 0,0005 0,0007 0,0001 0,0005 0,0052 0,005500000000	0 1 1 2 3 4 4 5 9 9 12 2 2 3 3 4 4 7 7 10 16 16 2 3 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5	5) 5) 3287 1640 9954	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,00550 0,00550 0,005500000000	0 1 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 359 359 308 1212 1818 2727 4091 6156 2004 13805 2004 13805 2004	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0008 0,0011 0,0017 0,0025 0,0038 0,0025 0,0038 0,0025 0,0038 0,0025 0,0038 0,0025 0,0038 0,0025 0,0028 0,0028 0,0127 0,0085 0,0028 0,0127 0,0085 0,0028 0,0028 0,0028 0,0028 0,0028 0,0025 0,0038 0,0025 0,0028 0,0025 0,0028 0,0025 0,0003 0,0005 0,0001 0,0005 0,0003 0,0005 0,0003 0,0005 0,0003 0,0005 0,0003 0,0005 0,0003 0,0005 0,0003 0,0005 0,0003 0,0005 0,0003 0,0005 0,0003 0,0005 0,0003 0,0005 0,0003 0,0005 0,0003 0,0005 0,0003 0,0005 0,0003 0,0005 0,0003 0,0005 0,0003 0,0005 0,0003 0,0005 0,0003 0,0005 0,0003 0,0005 0,0005 0,0003 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0025 0,0005 0,0025 0,005500000000	0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091 6136 2279 13806 22709 3305 3005 30	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0001 0,0002 0,0003 0,0004 0,0007 0,0015 0,0003 0,0005 0,0003 0,0005 0,00500000000	0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 539 808 1212 1818 2727 4091 6136 9204 13805 539 808 20709 31066 13805 20709 31066 20709 31066 20709 31066 20709 31066 20709 31066 20709 31066 20709 31066 20709 207	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0015 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0005 0,0007 0,0001 0,0005 0,0052 0,005500000000	0 1 1 1 2 3 4 4 5 9 10 15 23 32 47 77 10 16 23 35 53 80 0 12 133 25 53 80 0 12 138 27 26 138 27 27 188 27 28 29 29 20 20 20 20 20 20 20 20 20 20	5) 328716406 5946	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0005 0,00015 0,00015 0,00015 0,00035 0,0003 0,00035 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0005 0,00500000000	0 1 1 1 2 3 4 6 9 14 21 32 47 71 106 150 239 539 539 539 808 1212 1818 2727 4091 6136 9204 13806 20709 31064 45596	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0008 0,0001 0,0025 0,0025 0,0025 0,0025 0,0027 0,0038 0,0027 0,0085 0,0085 0,0085 0,0085 0,00828 0,0127 0,0189 0,0278 0,00405 0,0278 0,0405 0,0278 0,0405 0,0405 0,0405 0,0405 0,1535 0,1555 0,1555 0,1555 0,15550,1555 0,15550000000000	0 1 1 1 2 3 4 6 9 14 21 32 47 71 105 160 239 539 808 1212 1818 2727 4091 6136 9209 13056 20709 31056 2050 20709 31056 31056	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0001 0,0002 0,0003 0,0004 0,0005 0,0015 0,0015 0,0025 0,0015 0,0015 0,0025 0,0013 0,0076 0,0015 0,0026 0,0015 0,0026 0,0015 0,0015 0,0026 0,0015 0,000500000000	0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 160 239 359 539 808 1212 1818 2727 4091 6136 9204 13805 13805 13805 13805 13805 13805 13805 1395 1395 1395 1395 1395 1395 1395 1395 1395 1395 1395 1305 1405 1595 1305 1005	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0015 0,0024 0,0035 0,0054 0,0035 0,0054 0,0035 0,0054 0,0035 0,0120 0,0177 0,0252 0,0383 0,0554 0,0788 0,1095 0,1478 0,1919 0,2381 0,3155 0,3425 0,3555 0,34157 0,3555 0,44157 0,4531	0 1 1 1 2 3 4 4 6 9 14 22 32 4 4 7 10 16 23 35 53 80 122 18 18 277 40 61 27 32 35 53 30 80 122 138 80 122 138 80 122 138 80 122 138 122 138 148 148 148 148 148 148 148 14	5) 3 2 8 7 1 6 4 6 9 3 4 6 9 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,	0 1 1 1 2 3 4 6 9 14 21 32 47 71 106 160 160 160 160 160 160 16	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0008 0,0011 0,0017 0,0025 0,0038 0,0057 0,0085 0,0127 0,0085 0,0127 0,0189 0,0278 0,0127 0,0189 0,0278 0,0405 0,0585 0,3585 0,3585 0,3587 0,3897 0,3897 0,3897 0,3897 0,3897 0,3897 0,3897 0,3897 0,3897 0,3977 0,3897 0,3977 0,40590000000000000000000000000000000	0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 359 359 359 808 1212 1818 2727 4091 6136 9204 13806 5395 9204 13806 5405 9204 13806 5405 9204 13806 5405 9204 13806 5405 9204 13806 5405 9204 13806 5405 9204 13806 5405 9204 13806 5405 9204 13806 5405 9204 13806 5405 9204 13806 5405 9204 13806 5405 9204 13806 5405 9204 13806 13806 13805 13905 1305 1005	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0001 0,0002 0,0003 0,0004 0,0005 0,0015 0,0015 0,0015 0,0015 0,0015 0,0015 0,0015 0,0015 0,0015 0,0015 0,0015 0,0015 0,0015 0,0015 0,0015 0,0015 0,0015 0,0001 0,000000	0 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 359 359 359 359 359 359 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0016 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0007 0,0011 0,0007 0,0006 0,0024 0,0006 0,0020 0,0025 0,0007 0,0052 0,0054 0,0052 0,005500000000	0 1 1 1 2 3 4 4 6 9 14 22 33 4 4 7 7 10 16 22 35 35 35 35 35 35 35 35 35 35	5) 3 2 8 7 1 6 4 6 9 3 4 6 3 3 4 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0055 0,0055 0,0056 0,0055 0,0056 0,0055 0,0056 0,0055 0,0056 0,0055 0,0056 0,0055 0,00560 0,00560 0,00560 0,00560 0,00560 0,00560 0,00560 0,00560 0,00560 0,00560 0,00560 0,00560 0,00560 0,00560 0,00560 0,00560 0,0000000000	0 1 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 359 359 359 359 308 1212 1818 2727 4091 6156 9204 13805 2204 13805 2004 1005 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0008 0,0011 0,0017 0,0025 0,0025 0,0038 0,0027 0,0085 0,0127 0,0085 0,0127 0,0189 0,0278 0,0127 0,0189 0,0278 0,0405 0,0405 0,0405 0,0405 0,0405 0,0405 0,0405 0,0405 0,0405 0,0405 0,1145 0,1535 0,1145 0,1535 0,3572 0,3572 0,3577 0,3797 0,3797 0,3923 0,44069 0,4224 0,4373 0,4495	0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 539 539 539 808 1212 1818 2777 4091 6136 9204 13806 20709 31064 46596 58995 31064 31064400 106400 1064000 10640000000 106400000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0001 0,0002 0,0003 0,0004 0,0007 0,0015 0,0003 0,0005 0,0003 0,0005 0,0003 0,0005 0,0003 0,0005 0,00500000000	0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 160 239 359 539 808 1212 1818 2727 4091 6136 9204 13805 13805 13805 13805 13805 13805 13805 1395 1395 1395 1395 1395 1395 1395 1395 1395 1395 1395 1305 1405 1595 1305 1005	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0015 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0005 0,0007 0,0001 0,0005 0,0052 0,005500000000	0 1 1 1 2 3 4 4 5 9 10 12 23 37 47 77 10 16 23 35 53 53 53 53 53 53 53 53 5	500000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0007 0,00015 0,00015 0,00015 0,00035 0,00035 0,00035 0,00035 0,00035 0,00035 0,00035 0,00035 0,00035 0,00035 0,0005 0,0050	0 1 1 1 2 3 4 6 9 14 21 32 47 71 106 160 160 160 160 160 160 16	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0001 0,0017 0,0025 0,0038 0,0027 0,0038 0,0027 0,0038 0,0027 0,0038 0,0035 0,0003 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0038 0,0057 0,0085 0,0057 0,0085 0,0057 0,0085 0,0057 0,0085 0,0057 0,0085 0,0057 0,0085 0,0057 0,0085 0,0057 0,0085 0,0055 0,0127 0,0189 0,0278 0,0243 0,2243 0,3557 0,3587 0,3572 0,4059 0,4495 0,4495 0,44950,4495 0,	0 1 1 1 2 3 4 6 9 14 21 32 47 71 105 160 239 359 539 808 1212 1818 2727 4091 6136 20709 310654 5893 104555 5893 104555 5893 1045555 58933 1045555 58933 1045555 58933 1045555 58933 1045555 58933 1045555 58933 1045555 58933 1045555 58933 1045555 58933 1045555 58933 1045555 58933 1045555 58933 1045555 58933 1045555 58933 1045555 58933 1045555 105555 58933 1045555 1055555 105555 1055555 1055555 1055555 1055555 1055555 1055555 105555555555	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0001 0,0002 0,0003 0,0004 0,0005 0,0015 0,0015 0,0015 0,0015 0,0015 0,0015 0,0015 0,0015 0,0015 0,0015 0,0015 0,0015 0,0015 0,0015 0,0015 0,0015 0,0015 0,0001 0,000000	0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 539 808 1212 1818 2727 4091 6136 9204 13805 20709 31066 13805 60833 1084556 60833 108556 60833 108556 60833 108556 60833 108556 60833 108556 60833 108556 60833 108556 60833 108556 60833 108556 60833 108556 60833 108556 60833 108556 60833 108556 60833 108556 60833 108556 60833 108556 60833 108556 1095 1095 1095 1095 1095 1005	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0016 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0007 0,0011 0,0007 0,0006 0,0024 0,0006 0,0020 0,0025 0,0007 0,0052 0,0054 0,0052 0,005500000000	0 1 1 1 2 3 4 4 6 9 14 22 33 4 4 7 7 10 16 22 35 35 35 35 35 35 35 35 35 35	5 $3$ $2$ $8$ $7$ $1$ $6$ $4$ $06$ $9$ $3$ $4$ $60$ $9$ $3$ $4$ $60$ $9$ $3$ $4$ $60$ $9$ $3$ $4$ $60$ $9$ $3$ $4$ $60$ $9$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0055 0,0055 0,0056 0,0055 0,0056 0,0055 0,0056 0,0055 0,0056 0,0055 0,0056 0,0055 0,00560 0,00560 0,00560 0,00560 0,00560 0,00560 0,00560 0,00560 0,00560 0,00560 0,00560 0,00560 0,00560 0,00560 0,00560 0,00560 0,0000000000	0 1 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 539 539 808 1212 1818 2727 4091 6136 20709 31064 45596 5893 1048056 10595 1048056 10595 10595 10595 10595 10595 10595 10595 10595 10595 10595 10595 10595 10595 10595 1059 1057 1059	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0008 0,0011 0,0017 0,0025 0,0025 0,0038 0,0027 0,0085 0,0127 0,0085 0,0127 0,0189 0,0278 0,0127 0,0189 0,0278 0,0405 0,0405 0,0405 0,0405 0,0405 0,0405 0,0405 0,0405 0,0405 0,0405 0,1145 0,1535 0,1145 0,1535 0,3572 0,3572 0,3577 0,3797 0,3797 0,3923 0,44069 0,4224 0,4373 0,4495	0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 539 539 539 808 1212 1818 2777 4091 6136 9204 13806 20709 31064 46596 58995 31064 31064400 106400 1064000 10640000000 106400000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0001 0,0002 0,0003 0,0004 0,0005 0,0015 0,0015 0,0015 0,0023 0,0004 0,0005 0,0015 0,0023 0,0004 0,000500000000	0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 106 160 239 359 539 539 539 539 539 539 5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0015 0,0024 0,0035 0,1035 0,3120 0,3155 0,3315 0,3355 0,3475 0,3475 0,3555 0,3475 0,3555 0,3475 0,3555 0,3475 0,3555 0,3475 0,3555 0,3475 0,3555 0,4177 0,3555 0,4177 0,3555 0,4177 0,3555 0,4177 0,3555 0,4177 0,3555 0,4177 0,3555 0,4177 0,3555 0,4177 0,3555 0,4177 0,3555 0,4177 0,3555 0,4177 0,3555 0,4177 0,3555 0,4177 0,3555 0,4177 0,3555 0,4177 0,3555 0,4177 0,5285 0,	0 1 1 1 2 3 4 4 6 9 14 22 32 4 4 22 32 4 4 77 10 16 23 35 53 38 80 121 18 18 277 40 12 23 25 53 35 53 35 53 35 53 35 53 35 53 35 53 53	5) 32871640699469300 400935	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,000500000000	0 1 1 1 2 3 4 6 9 14 21 32 47 71 106 160 106 160 239 359 359 359 359 359 359 359 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0001 0,0017 0,0025 0,0038 0,0027 0,0085 0,0127 0,0085 0,0127 0,0085 0,0127 0,0189 0,0278 0,0127 0,0189 0,0278 0,0127 0,0189 0,0278 0,0127 0,0189 0,0278 0,0127 0,0189 0,0278 0,0127 0,0189 0,0278 0,0127 0,0189 0,0278 0,0127 0,028 0,0127 0,0085 0,0127 0,0085 0,0025 0,0055 0,0278 0,0405 0,0127 0,0405 0,0127 0,0405 0,0127 0,0405 0,0125 0,0282 0,0125 0,0282 0,3182 0,3182 0,3557 0,3557 0,3557 0,3557 0,3557 0,3577 0,3797 0,3797 0,3797 0,4224 0,4405 0,4224 0,4451 0,4451 0,4451 0,4451 0,4451 0,44570,4451 0,4457	0 1 1 2 3 4 6 9 14 21 32 47 71 106 150 239 359 359 359 359 359 359 359 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0001 0,0002 0,0003 0,0004 0,0005 0,0015 0,0001 0,0002 0,000000	0 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 359 359 359 359 359 359 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0016 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0002 0,0007 0,0006 0,0006 0,0006 0,0006 0,0006 0,0006 0,0006 0,0006 0,0006 0,0006 0,0020 0,0005 0,0006 0,0020 0,0020 0,0054 0,0054 0,0054 0,0052 0,0052 0,005500000000	0 1 1 1 2 3 4 4 6 9 14 22 14 32 4 4 7 10 16 23 35 35 35 80 80 121 183 277 205 80 121 133 277 135 137 137 137 137 137 137 137 137	5) 32871640699469300 400935	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0055 0,0055 0,0056 0,0056 0,0055 0,0056 0,0055 0,00560 0,00560 0,00560 0,00560 0,00560 0,00560 0,0000000000	0 1 1 1 2 3 4 6 9 14 21 32 47 71 105 150 239 359 539 808 1212 1818 12727 4091 6136 9204 13805 22709 31064 46596 69893 1048400 157260 2359835	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0008 0,0011 0,0017 0,0025 0,0025 0,0038 0,0025 0,0038 0,0025 0,0038 0,0025 0,0038 0,0035 0,0040 0,0085 0,0040 0,0085 0,0040 0,0085 0,0040 0,0040 0,0040 0,0040 0,0040 0,0040 0,0040 0,0040 0,0040 0,0040 0,0040 0,0040 0,0040 0,0040 0,0005 0,0003 0,0005 0,0005 0,0003 0,000500000000	0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 339 808 1212 1818 2777 4091 6136 1385 20709 31064 46596 5999 31064 46596 5999 31064 13806 22549 31064 1057260 2353835	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0001 0,0002 0,0003 0,0004 0,0005 0,0015 0,0001 0,0002 0,0001 0,0001 0,000000	0 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 359 359 359 359 359 359 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0007 0,0011 0,0016 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0024 0,0036 0,0002 0,0007 0,0006 0,0006 0,0006 0,0006 0,0006 0,0006 0,0006 0,0006 0,0006 0,0006 0,0020 0,0005 0,0006 0,0020 0,0020 0,0054 0,0054 0,0054 0,0052 0,0052 0,005500000000	0 1 1 1 2 3 4 4 6 9 14 22 14 32 4 4 7 10 16 23 35 35 35 80 80 121 183 277 205 80 121 133 277 135 137 137 137 137 137 137 137 137	5) 32871640699469300 400935	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0055 0,0055 0,0056 0,0056 0,0055 0,0056 0,0055 0,00560 0,00560 0,00560 0,00560 0,00560 0,00560 0,0000000000	0 1 1 1 2 3 4 6 9 14 21 32 47 71 105 150 239 359 539 808 1212 1818 12727 4091 6136 9204 13805 22709 31064 46596 69893 1048400 157260 2359835	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0008 0,0011 0,0017 0,0025 0,0025 0,0038 0,0025 0,0038 0,0025 0,0038 0,0025 0,0038 0,0035 0,0040 0,0085 0,0040 0,0085 0,0040 0,0085 0,0040 0,0040 0,0040 0,0040 0,0040 0,0040 0,0040 0,0040 0,0040 0,0040 0,0040 0,0040 0,0040 0,0040 0,0005 0,0003 0,0005 0,0005 0,0003 0,000500000000	0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 339 808 1212 1818 2777 4091 6136 1385 20709 31064 46596 5999 31064 46596 5999 31064 13806 22549 31064 1057260 2353835	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

Displ [mm]	time [sec.]	time (h)	Cup	Displ [mm]	Displ+0,02	time [sec.]	time (h)	Cup	Displ [mm]	time [sec.]	time (h)	Cup	Displ [mm]	time [sec.]	time (h)	Cup
0,0001	0	0		0,0001	0,02	0	0		-0,0001	5	0		0,0002	0	0	
0,0002	1	0		0,0002	0,02	1	0		-0,0002	7	0		0,0003	1	0	
0,0003	1	0		0,0003	0,02	1	0		-0,0002	11	0		0,0005	1	0	
0,0004	1	0		0,0004	0,02	1	0		-0,0004	15	0		0,0007	1	0	
0,0007	2	0		0,0007	0,02	2	0		-0,0005	24	0		0,0010	2	0	
0,0010	3	0		0,0010	0,02	3	0		-0,0008	35	0		0,0016	3	0	
0,0015	4	0		0,0015	0,02	4	0		-0,0012	53	0		0,0024	4	0	
0,0023	6	0		0,0023	0,02	6	0		-0,0018	80	0		0,0035	6	0	
0,0034	9	0		0,0034	0,02	9	0		-0,0028	120	0		0,0053	9	0	
0,0051	14	0		0,0051	0,03	14	0		-0,0042	180	0		0,0079	14	0	
0,0076	21	0		0,0075	0,03	21	0		-0,0054	269	0		0,0118	21	0	
0,0113	32	0		0,0112	0,03	32	0		-0,0096	404	0		0,0176	32	0	
0,0167	47	0		0,0157	0,04	47	0		-0,0141	606	0		0,0252	47	0	
0,0246	71	0		0,0245	0,04	71	0		-0,0199	909	0		0,0385	71	0	
0,0360	105	0		0,0359	0,05	106	0		-0,0267	1364	0		0,0565	106	0	
0,0520	160	0		0,0519	0,07	160	0		-0,0338	2045	1		0,0818	160	0	
0,0738	239	0	α-reference	0,0737	0,09	239	0	1/2α-L	-0,0402	3068	1	1/2 a-T	0,1165	239	0	1/2 α-R
0,1024	359	0		0,1022	0,12	359	0		-0,0452	4602	1		0,1523	359	0	
0,1377	539	0		0,1374	0,15	539	0		-0,0525	6903	2		0,2193	539	0	
0,1781	808	0		0,1778	0,20	808	0		-0,0602	10355	3		0,2855	808	0	
0,2201	1212	0		0,2198	0,24	1212	0		-0,0701	15532	4		0,3551	1212	0	
0,2589	1818	1		0,2585	0,28	1818	1		-0,0824	23298	6		0,4204	1818	1	
0,2904	2727	1		0,2900	0,31	2727	1		-0,0965	34947	10		0,4744	2727	1	
0,3131	4091	1		0,3127	0,33	4091	1		-0,1113	52420	15		0,5145	4091	1	
0,3290	6136	2		0,3287	0,35	6136	2		-0,1249	78630	22		0,5445	6136	2	
0,3419	9204	3		0,3416	0,35	9204	3		-0,1356	117945	33		0,5710	9204	3	
0,3553	13806	4		0,3550	0,38	13805	4		-0,1425	176917	49		0,6003	13805	4	
0,3711	20709	6		0,3708	0,39	20709	6		-0,1461	265376	74		0,6355	20709	6	
0,3894	31064	9		0,3892	0,41	31064	9		-0,1475	398064	111		0,6766	31064	9	
0,4090	46596	13		0,4088	0,43	46596	13		-0,1478	518400	144		0,7207	46596	13	
0,4278	69893	19		0,4277	0,45	69893	19						0,7630	69893	19	
0,4434	104840	29		0,4434	0,45	104840	29						0,7981	104840	29	
0,4541	157260	44		0,4541	0,47	157260	44						0,8222	157260	44	
0,4600	235890	66		0,4600	0,48	235890	66						0,8354	235890	66	
0,4524	353835	98		0,4624	0,48	353835	98						0,8409	353835	98	
0,4632	518400	144		0,4632	0,48	518400	144						0,8426	518400	144	

WB-2-Bow

Displ [mm]	time [sec.]	time (h)	Bow	Displ [mm]	time [sec	] time (h)	Bow	Displ [mm]	time [sec.]	time (h)	Bow	Displ [mm]	time [sec.]	time (h)	Bow
0,0006	0	0		0,0004	. 0	0		0,0008	0	0		0,0005	0	0	
0,0010	0	0		0,0005	0	0		0,0012	0	0		0,0010	0	0	
0,0015	0	0		0,0010	0	0		0,0019	0	0		0,0015	0	0	
0,0024	0	0		0,0015	0	0		0,0030	0	0		0,0023	0	0	
0,0036	1	0		0,0023	1	0		0,0045	1	0		0,0036	1	0	
0,0054	1	0		0,0035	1	0		0,0068	1	0		0,0054	1	0	
0,0082	1	0		0,0053	1	0		0,0103	1	0		0,0081	1	0	
0,0123	2	0		0,0080	2	0		0,0155	2	0		0,0122	2	0	
0,0185	з	0		0,0121	3	0		0,0233	3	0		0,0184	3	0	
0,0278	4	0		0,0181	4	0		0,0350	4	0		0,0275	4	0	
0,0417	6	0		0,0272	5	0		0,0525	6	0		0,0413	6	0	
0,0624	9	0		0,0407	9	0		0,0786	9	0		0,0519	9	0	
0,0932	14	0		0,0608	14	0		0,1174	14	0		0,0925	14	0	
0,1390	21	0		0,0907	21	0		0,1750	21	0		0,1379	21	0	
0,2065	32	0		0,1349	32	0		0,2602	32	0		0,2050	32	0	
0,3057	47	0		0,1996	47	0		0,3848	47	0		0,3034	47	0	
0,4493	71	0	E-reference	0,2935	71	0	1/2 E-L	0,5654	71	0	1/2 E-R	0,4460	71	0	1/2 E-T
0,6539	105	0		0,4274	106	0		0,8224	105	0		0,6495	105	0	
0,9384	160	0		0,6140	160	0		1,1796	150	0		0,9330	160	0	
1,3210	239	0		0,8653	239	0		1,6588	239	0		1,3149	239	0	
1,8109	359	0		1,1884	359	0		2,2712	359	0		1,8055	359	0	
2,3991	539	0		1,5781	539	0		3,0039	539	0		2,3969	539	0	
3,0479	808	0		2,0106	808	0		3,8084	808	0		3,0529	808	0	
3,6922	1212	0		2,4433	1212	0		4,6027	1212	0		3,7089	1212	0	
4,2567	1818	1		2,8260	1818	1		5,2938	1818	1		4,2886	1818	1	
4,6838	2727	1		3,1193	2727	1		5,8115	2727	1		4,7324	2727	1	
4,9531	4091	1		3,3094	4091	1		6,1308	4091	1		5,0192	4091	1	
5,0822	6136	2		3,4095	6136	2		6,2715	6136	2		5,1689	6136	2	
5,1119	9204	3		3,4492	9204	3		6,2813	9204	3		5,2259	9204	3	
5,0840	13806	4		3,4578	13805	4		6,2097	13805	4		5,2345	13805	4	
5,0257	20709	6		3,4538	20709	6		6,0900	20709	6		5,2226	20709	6	
4,9505	31064	9		3,4451	31064	9		5,9405	31064	9		5,2023	31064	9	
4,8665	46596	13		3,4341	46596	13		5,7757	46596	13		5,1776	46596	13	
4,7830	69893	19		3,4219	69893	19		5,6134	69893	19		5,1513	69893	19	
4,7107	104840	29		3,4103	104840	29		5,4747	104840	29		5,1266	104840	29	
4,6582	157260	44		3,4009	157250	44		5,3756	157260	44		5,1072	157260	44	
4,6277	235890	66		3,3948	235890	66		5,3188	235890	66		5,0950	235890	66	
4,6141	353835	98		3,3918	353835	98		5,2939	353835	98		5,0891	353835	98	
4,6097	518400	144		3,3908	518400	144		5,2859	518400	144		5,0871	518400	144	

Disal [mm]	time [see ]	time (b)	Bau	Disul [mm]		time [cos]	time (b)	Dent	Displiment	time [ree]	time (b)	Bau	Disalfarm	time free T	time (h)	Bau
Displ [mm] 0,0006	time [sec.] 0	time (n) 0	Bow	Displ [mm] 0,0006		time [sec.] 0	ume(n) 0	Bow	Displ [mm] 0,0007	time [sec.] 0	time (h) 0	Bow	Displ [mm] 0,0006	time [sec.] 0	ume(n) 0	Bow
0,0010	0	ō		0,0009		0	ő		0,0001	0	0		0,0010	0	0	
0,0015	ů 0	ō		0,0014		ō	ō		0,0017	ō	0		0,0015	õ	0	
0,0024	0	0		0,0021		0	0		0,0025	0	0		0,0024	0	0	
0,0036	1	0		0,0032		1	0		0,0039	1	0		0,0036	1	0	
0,0054	1	0		0,0049		1	0		0,0059	1	0		0,0055	1	0	
0,0082	1	0		0,0073		1	0		0,0089	1	0		0,0083	1	0	
0,0123	2	0		0,0110		2	0		0,0134	2	0		0,0124	2	0	
0,0185	3	0		0,0165		3	0		0,0201	3	0		0,0187	3	0	
0,0278	4	0		0,0249		4	0		0,0302	4	0		0,0280	4	0	
0,0417	6	0		0,0373		6	0		0,0452	5	0		0,0420	6	0	
0,0624	9	0		0,0559		9	0		0,0677	9	0		0,0629	9	0	
0,0932 0,1390	14 21	0 0		0,0835 0,1245		14 21	0		0,1012 0,1509	14 21	0		0,0940	14 21	0	
0,1550	32	0		0,1243		32	0		0,1303	32	0		0,1401 0,2083	32	0	
0,3057	47	õ		0,2738		47	õ		0,3319	47	õ		0,3082	47	0	
0,4493	71	õ	G-reference	0,4024		71	ō	1/2 G-LT	0,4878	71	õ	1/2 G-LR	0,4529	71	õ	1/2 G-TR
0,6539	105	0		0,5855		105	0		0,7099	106	0		0,6591	105	0	
0,9384	150	0		0,8401		150	0		1,0188	160	0		0,9460	150	0	
1,3210	239	0		1,1821		239	0		1,4341	239	0		1,3314	239	0	
1,8109	359	0		1,5199		359	0		1,9650	359	0		1,8252	359	0	
2,3991	539	0		2,1447		539	0		2,6046	539	0		2,4177	539	0	
3,0479	808	0		2,7226		808	0		3,3089	808	0		3,0712	808	0	
3,6922	1212	0		3,2953		1212	0		4,0082	1212	0		3,7198	1212	0	
4,2567	1818	1		3,7959		1818	1		4,6209	1818	1		4,2879	1818	1	
4,6838	2727	1		4,1733		2727	1		5,0845	2727	1		4,7175	2727	1	
4,9531	4091	1 2		4,4093		4091 6136	1		5,3767	4091	1		4,9880	4091	1	
5,0822 5,1119	6136 9204	2		4,5192 4,5384		9204	2 3		5,5166 5,5487	6136 9204	2 3		5,1170 5,1456	6136 9204	2 3	
5,0840	13805	4		4,5534		13806	4		5,5487	13805	4		5,1450	13805	4	
5,0257	20709	6		4,4384		20709	6		5,4544	20709	6		5,0547	20709	 6	
4,9505	31064	9		4,3558		31064	9		5,3723	31064	9		4,9762	31064	9	
4,8665	46596	13		4,2640		46596	13		5,2807	46596	13		4,8887	46596	13	
4,7830	69893	19		4,1730		69893	19		5,1896	69893	19		4,8017	69893	19	
4,7107	104840	29		4,0944		104840	29		5,1107	104840	29		4,7265	104840	29	
4,6582	157260	44		4,0377		157260	44		5,0535	157260	44		4,6720	157260	44	
4,6277	235890	66		4,0048		235890	66		5,0202	235890	66		4,6404	235890	66	
4,6141	353835	98		3,9902		353835	98		5,0054	353835	98		4,6263	353835	98	
4,6097	518400	144		3,9855		518400	144		5,0006	518400	144		4,6218	518400	144	
Disciplination of the second																
Displ [mm]	time [sec.]	time (h)	Bow	Displ [mm]	Displ+0,1	time [sec.]	time (h)	Bow	Displ [mm]	time [sec.]	time (h)	Bow	Displ [mm]	time [sec.]	time (h)	Bow
0,0005	0	0	Bow	Displ [mm] 0,0005	0,1005	time [sec.] 0	time (h) 0	Bow	0,0001	time [sec.] 0	0	Bow	0,0007	0	0	Bow
0,0005 0,0010	0 0	0	Bow	0,0005 0,0010	0,1005 0,1010	0	0 0	Bow	0,0001 0,0002	0	0	Bow	0,0007 0,0011	0 0	0	Bow
0,0005 0,0010 0,0015	0 0 0	0 0 0	Bow	0,0005 0,0010 0,0015	0,1006 0,1010 0,1015	0 0 0	0 0 0	Bow	0,0001 0,0002 0,0003	0 0 0	0 0 0	Bow	0,0007 0,0011 0,0015	0 0 0	0 0 0	Bow
0,0005 0,0010 0,0015 0,0024	0 0 0 0	0 0 0 0	Bow	0,0005 0,0010 0,0015 0,0024	0,1006 0,1010 0,1015 0,1024	0 0 0 0	0 0 0 0	Bow	0,0001 0,0002 0,0003 0,0005	0 0 0 0	0 0 0 0	Bow	0,0007 0,0011 0,0016 0,0025	0 0 0 0	0 0 0 0	Bow
0,0005 0,0010 0,0015 0,0024 0,0035	0 0 0 0 1	0 0 0 0 0	Bow	0,0005 0,0010 0,0015 0,0024 0,0035	0,1006 0,1010 0,1015 0,1024 0,1036	0 0 0 0 1	0 0 0 0	Bow	0,0001 0,0002 0,0003 0,0005 0,0008	0 0 0 0	0 0 0 0 0	Bow	0,0007 0,0011 0,0015 0,0025 0,0038	0 0 0 0 1	0 0 0 0 0	Bow
0,0005 0,0010 0,0015 0,0024 0,0035 0,0054	0 0 0 0 1 1	0 0 0 0 0	Bow	0,0005 0,0010 0,0015 0,0024 0,0035 0,0054	0,1005 0,1010 0,1015 0,1024 0,1036 0,1054	0 0 0 1 1	0 0 0 0 0	Bow	0,0001 0,0002 0,0003 0,0005 0,0008 0,0012	0 0 0 0 0 0	0 0 0 0 0 0	Bow	0,0007 0,0011 0,0015 0,0025 0,0038 0,0058	0 0 0 1 1	0 0 0 0 0 0	Bow
0,0005 0,0010 0,0015 0,0024 0,0035 0,0054 0,0082	0 0 0 1 1 1	0 0 0 0 0 0 0	Bow	0,0005 0,0010 0,0015 0,0024 0,0035 0,0054 0,0082	0,1006 0,1010 0,1015 0,1024 0,1036 0,1054 0,1082	0 0 0 1 1 1	0 0 0 0 0 0 0	Bow	0,0001 0,0002 0,0003 0,0005 0,0008 0,0012 0,0018	0 0 0 0 0 0 1	0 0 0 0 0 0 0	Bow	0,0007 0,0011 0,0016 0,0025 0,0038 0,0058 0,0087	0 0 0 1 1 1	0 0 0 0 0 0 0	Bow
0,0005 0,0010 0,0015 0,0024 0,0035 0,0054 0,0082 0,0123	0 0 0 1 1 2	0 0 0 0 0 0 0 0	Bow	0,0006 0,0010 0,0015 0,0024 0,0036 0,0036 0,0054 0,0082 0,0123	0,1006 0,1010 0,1015 0,1024 0,1036 0,1054 0,1082 0,1123	0 0 0 1 1 2	0 0 0 0 0 0 0 0	Bow	0,0001 0,0002 0,0003 0,0005 0,0008 0,0012 0,0018 0,0018 0,0027	0 0 0 0 0 0 1 1	0 0 0 0 0 0 0 0	Bow	0,0007 0,0011 0,0015 0,0025 0,0038 0,0058 0,0087 0,0132	0 0 0 1 1 1 2	0 0 0 0 0 0 0 0 0	Bow
0,0005 0,0010 0,0015 0,0024 0,0035 0,0054 0,0082 0,0123 0,0185	0 0 0 1 1 1 2 3	0 0 0 0 0 0 0 0 0	Bow	0,0005 0,0010 0,0015 0,0024 0,0035 0,0054 0,0082 0,0123 0,0123	0,1006 0,1010 0,1015 0,1024 0,1036 0,1054 0,1082 0,1123 0,1185	0 0 0 1 1 1 2 3	0 0 0 0 0 0 0 0 0	Bow	0,0001 0,0002 0,0003 0,0005 0,0008 0,0012 0,0018 0,0012 0,0018 0,0027 0,0040	0 0 0 0 0 0 1 1 1	0 0 0 0 0 0 0 0 0	Bow	0,0007 0,0011 0,0016 0,0025 0,0038 0,0058 0,0087 0,0132 0,0198	0 0 0 1 1 1 2 3	0 0 0 0 0 0 0 0 0 0	Bow
0,0005 0,0010 0,0015 0,0024 0,0035 0,0054 0,0082 0,0123	0 0 0 1 1 2	0 0 0 0 0 0 0 0	Bow	0,0005 0,0010 0,0015 0,0024 0,0035 0,0054 0,0082 0,0123 0,0185 0,0278	0,1006 0,1010 0,1015 0,1024 0,1036 0,1054 0,1082 0,1123 0,1185 0,1278	0 0 0 1 1 1 2 3 4	0 0 0 0 0 0 0 0	Bow	0,0001 0,0002 0,0003 0,0005 0,0008 0,0012 0,0018 0,0018 0,0027	0 0 0 0 0 0 1 1	0 0 0 0 0 0 0 0	Bow	0,0007 0,0011 0,0016 0,0025 0,0038 0,0058 0,0087 0,0132 0,0138 0,0297	0 0 0 1 1 1 2	0 0 0 0 0 0 0 0 0 0 0 0	Bow
0,0005 0,0010 0,0015 0,0024 0,0035 0,0054 0,0082 0,0123 0,0185 0,0278	0 0 0 1 1 2 3 4	0 0 0 0 0 0 0 0 0 0 0	Bow	0,0005 0,0010 0,0015 0,0024 0,0035 0,0054 0,0082 0,0123 0,0123	0,1006 0,1010 0,1015 0,1024 0,1036 0,1054 0,1082 0,1123 0,1185	0 0 0 1 1 1 2 3	0 0 0 0 0 0 0 0 0 0	Bow	0,0001 0,0002 0,0003 0,0005 0,0008 0,0012 0,0018 0,0027 0,0040 0,0060	0 0 0 0 0 1 1 1 2	0 0 0 0 0 0 0 0 0 0 0 0	Bow	0,0007 0,0011 0,0016 0,0025 0,0038 0,0058 0,0087 0,0132 0,0198	0 0 0 1 1 2 3 4	0 0 0 0 0 0 0 0 0 0	Bow
0,0005 0,0010 0,0015 0,0024 0,0035 0,0054 0,0082 0,0123 0,0185 0,0278 0,0417	0 0 0 1 1 2 3 4 6	0 0 0 0 0 0 0 0 0 0 0 0	Bow	0,0006 0,0010 0,0015 0,0024 0,0035 0,0054 0,0082 0,0123 0,0185 0,0278 0,0415	0,1006 0,1010 0,1015 0,1024 0,1036 0,1054 0,1082 0,1123 0,1185 0,1278 0,1416	0 0 0 1 1 2 3 4 5	0 0 0 0 0 0 0 0 0 0 0	Bow	0,0001 0,0002 0,0003 0,0005 0,0008 0,0012 0,0012 0,0018 0,0027 0,0040 0,0060 0,0090	0 0 0 0 0 1 1 1 1 2 3	0 0 0 0 0 0 0 0 0 0 0 0 0	Bow	0,0007 0,0011 0,0016 0,0025 0,0038 0,0058 0,0087 0,0132 0,0198 0,0297 0,0445	0 0 0 1 1 1 2 3 4 6	0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow
0,0005 0,0010 0,0015 0,0024 0,0035 0,0054 0,0082 0,0123 0,0185 0,0278 0,0417 0,0624 0,0932 0,1390	0 0 0 1 1 2 3 4 6 9 14 21		Bow	0,0006 0,0015 0,0015 0,0024 0,0036 0,0082 0,0123 0,0185 0,0278 0,0416 0,0623 0,0416 0,0623 0,0931 0,1388	0,1006 0,1010 0,1015 0,1024 0,1036 0,1054 0,1082 0,1123 0,1185 0,1278 0,1416 0,1623 0,1931 0,2388	0 0 0 1 1 1 2 3 4 5 9 14 21	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow	0,0001 0,0002 0,0003 0,0005 0,0008 0,0012 0,0018 0,0027 0,0040 0,0027 0,0040 0,0090 0,0135 0,0203 0,0303	0 0 0 0 1 1 1 2 3 5 7 11		Bow	0,0007 0,0011 0,0015 0,0025 0,0038 0,0087 0,0132 0,0132 0,0198 0,0297 0,0445 0,0657 0,0997 0,1488	0 0 0 1 1 2 3 4 6 9 14 21	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow
0,0005 0,0010 0,0015 0,0024 0,0035 0,0054 0,0082 0,0123 0,0185 0,0278 0,0417 0,0624 0,0932 0,1390 0,2066	0 0 0 1 1 1 2 3 4 6 9 14 21 32		Bow	0,0006 0,0015 0,0024 0,0036 0,0054 0,0054 0,0052 0,0123 0,0185 0,0278 0,0415 0,0623 0,0931 0,1388 0,2063	0,1006 0,1010 0,1015 0,1024 0,1036 0,1052 0,1052 0,1123 0,1185 0,1278 0,1128 0,1278 0,1415 0,1623 0,1921 0,2388 0,3063	0 0 0 1 1 1 2 3 4 5 9 14 21 32	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow	0,0001 0,0002 0,0003 0,0008 0,0012 0,0018 0,0027 0,0040 0,0060 0,0090 0,0135 0,0203 0,0203 0,0452	0 0 0 0 1 1 1 2 3 5 7 7 11 16		Bow	0,0007 0,0011 0,0016 0,0025 0,0038 0,0058 0,0087 0,0132 0,0198 0,0297 0,0445 0,06977 0,0445 0,0997	0 0 0 1 1 2 3 4 6 9 14 21 32	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow
0,0006 0,0010 0,0015 0,0024 0,0036 0,0082 0,0123 0,0185 0,0278 0,0278 0,0278 0,0278 0,0278 0,0278 0,0278 0,0624 0,0932 0,1390 0,2066 0,3057	0 0 0 1 1 2 3 4 6 9 14 21 32 47			0,0006 0,0010 0,0015 0,0024 0,0035 0,0054 0,0082 0,0123 0,0123 0,0125 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0623 0,0931 0,1388 0,2063 0,3053	0,1006 0,1010 0,1015 0,1024 0,1036 0,1054 0,1054 0,1082 0,1123 0,1123 0,1123 0,1278 0,1278 0,1415 0,1523 0,1931 0,3063 0,3063 0,4053	0 0 0 1 1 2 3 4 5 9 14 21 32 47	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0002 0,0003 0,0005 0,0008 0,0012 0,0018 0,0027 0,0040 0,0050 0,0135 0,0203 0,0135 0,0203 0,0303 0,0452 0,0673	0 0 0 0 1 1 1 2 3 5 7 11 15 24			0,0007 0,0011 0,0015 0,0025 0,0038 0,0087 0,0132 0,0132 0,0132 0,0237 0,0445 0,0257 0,0445 0,0667 0,0997 0,1488 0,2213 0,3278	0 0 0 1 1 2 3 4 6 9 14 21 32 47	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0006 0,0010 0,0015 0,0024 0,0036 0,0054 0,0054 0,0054 0,00278 0,0125 0,0125 0,0128 0,0128 0,0128 0,0128 0,0128 0,0050 0,0050 0,0050 0,0050 0,0010 0,0010 0,0010 0,0015 0,0010 0,0015 0,0015 0,0020 0,0015 0,0020 0,00000000	0 0 1 1 2 3 4 6 9 14 21 32 47 71		Bow α-reference	0,0006 0,0015 0,0024 0,0035 0,0082 0,0123 0,0185 0,0278 0,0415 0,0278 0,0415 0,0623 0,031 0,1388 0,2063 0,3053 0,3053 0,4487	0,1006 0,1010 0,1015 0,1024 0,1035 0,1054 0,1082 0,1123 0,1082 0,1123 0,1185 0,1278 0,1415 0,1623 0,1931 0,2388 0,3063 0,4053 0,5487	0 0 0 1 1 2 3 4 5 9 14 21 32 21 32 71		Bow 1/2 α-L	0,0001 0,0002 0,0003 0,0008 0,0012 0,0012 0,0012 0,0027 0,0040 0,0050 0,0027 0,0040 0,0050 0,0135 0,0033 0,0135 0,0203 0,0303 0,04573 0,0595	0 0 0 0 1 1 1 2 3 5 7 11 16 24 35		Bow 1/2 α-Τ	0,0007 0,0011 0,0015 0,0025 0,0038 0,0087 0,0132 0,0132 0,0132 0,0132 0,0132 0,0132 0,0132 0,0132 0,0132 0,0445 0,0657 0,0997 0,1488 0,2213 0,3278 0,3278	0 0 0 1 1 2 3 4 5 9 14 21 32 47 71	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow 1/2 α-R
0,0006 0,0010 0,0024 0,0024 0,0035 0,00854 0,00854 0,0123 0,01123 0,0115 0,0278 0,0417 0,0624 0,0423 0,0130 0,2066 0,3057 0,4493 0,6539	0 0 0 1 1 2 3 4 6 9 14 21 32 47 71 106			0,0006 0,0015 0,0024 0,0036 0,0024 0,0032 0,0123 0,0123 0,0125 0,0125 0,0125 0,0125 0,0125 0,0125 0,0125 0,0125 0,0125 0,0024 0,0032 0,0123 0,0125 0,0024 0,0035 0,0024 0,0035 0,0024 0,0035 0,0024 0,0035 0,0024 0,0035 0,0024 0,0035 0,0024 0,0035 0,0024 0,0035 0,0024 0,0035 0,0024 0,0035 0,0024 0,0035 0,0025 0,0055	0,1006 0,1010 0,1015 0,1024 0,1036 0,1054 0,1054 0,1054 0,1054 0,1123 0,1125 0,1278 0,1416 0,1623 0,1278 0,1416 0,1623 0,1278 0,1006 0,1000 0,1000 0,1010 0,1010 0,1010 0,1010 0,1010 0,1010 0,1020 0,0000 0,0000000000	0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106			0,0001 0,0002 0,0003 0,0005 0,0008 0,0012 0,0012 0,0012 0,0012 0,0012 0,0012 0,0012 0,0012 0,0012 0,0010 0,0010 0,0010 0,0005 0,005 0,00000000	0 0 0 0 1 1 1 2 3 5 7 11 16 24 35 53			0,0007 0,0011 0,0015 0,0025 0,0038 0,0087 0,0132 0,0138 0,0138 0,0297 0,0445 0,0297 0,0445 0,0697 0,1488 0,2213 0,3278 0,3278 0,3278 0,4825 0,7039	0 0 0 1 1 2 3 4 5 9 14 21 32 47 71 106	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0006 0,0010 0,0015 0,0024 0,0035 0,0082 0,0082 0,0082 0,0123 0,0082 0,0123 0,0278 0,0417 0,0627 0,06417 0,0632 0,06417 0,0632 0,0357 0,4493 0,0357 0,4493	0 0 0 1 1 2 3 4 5 9 14 21 32 47 71 1065 160			0,0006 0,0010 0,0015 0,0024 0,0035 0,0082 0,0123 0,0123 0,0123 0,0125 0,0278 0,0415 0,0623 0,0415 0,0653 0,0653 0,2063 0,3053 0,4487 0,6530 0,9372	0,1006 0,1010 0,1015 0,1024 0,1036 0,1036 0,1084 0,1082 0,1123 0,1185 0,1278 0,1185 0,1278 0,1278 0,1416 0,1623 0,1931 0,3063 0,3063 0,3063 0,4053 0,5530	0 0 0 1 1 2 3 4 5 9 14 21 32 47 71 32 47 71 106 150			0,0001 0,0002 0,0003 0,0008 0,0012 0,0012 0,0012 0,0012 0,0012 0,0012 0,0027 0,0040 0,0030 0,0030 0,0135 0,0203 0,0135 0,0203 0,0452 0,0455 0,0455 0,045 0,0	0 0 0 0 1 1 1 2 3 5 7 1 1 1 5 7 1 1 1 5 5 7 1 1 1 5 5 7 80			0,0007 0,0011 0,0015 0,0025 0,0038 0,0088 0,0087 0,0132 0,0138 0,0297 0,0445 0,0445 0,0445 0,0445 0,0445 0,0448 0,0448 0,0448 0,0448 0,0448 0,005 0,005 0,001 0,001 0,001 0,002 0,001 0,002 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000000	0 0 0 1 1 2 3 4 6 9 14 21 32 47 71 106 150		
0,0006 0,0010 0,0015 0,0024 0,0035 0,0082 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,010 0,0005 0,00000000	0 0 0 1 1 2 3 4 5 9 14 21 32 47 71 106 150 239			0,0006 0,0015 0,0024 0,0035 0,0054 0,0082 0,0123 0,0185 0,0278 0,0415 0,0278 0,0416 0,0623 0,0416 0,0623 0,0487 0,3053 0,4487 0,5530 0,9372 1,3192	0,1005 0,1010 0,1015 0,1024 0,1036 0,1054 0,1054 0,1054 0,1123 0,1123 0,1123 0,1123 0,1278 0,1278 0,1278 0,1278 0,1278 0,1278 0,1278 0,1054 0,1005 0,1005 0,1015 0,1015 0,1026 0,1015 0,1026 0,1015 0,1026 0,1027 0,1026 0,1027 0,1026 0,1027 0,1026 0,1027 0,1026 0,1027 0,1026 0,1027 0,1026 0,1027 0,1026 0,1027 0,1027 0,1026 0,1027 0,1007 0,0000000000	0 0 0 1 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239			6,0001 0,0002 0,0003 0,0005 0,0008 0,0018 0,0018 0,0027 0,0040 0,0030 0,0030 0,0030 0,0030 0,0030 0,0030 0,0030 0,0030 0,0030 0,0030 0,0030 0,0030 0,0000 0,000800000000	0 0 0 0 1 1 1 2 3 5 7 11 16 24 35 53 80 120			0,0007 0,0011 0,0015 0,0025 0,0038 0,0058 0,0058 0,0132 0,0198 0,0237 0,0482 0,0657 0,0997 0,1488 0,2213 0,3278 0,4825 0,7039 1,0135	0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 150 239		
0,0006 0,0010 0,0012 0,0024 0,0035 0,0054 0,0052 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0278 0,0278 0,0278 0,0274 0,0274 0,0274 0,0274 0,0274 0,0274 0,025 0,024 0,024 0,0010 0,0010 0,0010 0,0010 0,0010 0,0010 0,0010 0,0010 0,0010 0,0010 0,0010 0,0010 0,0010 0,0010 0,0010 0,0010 0,0010 0,0024 0,0035 0,0024 0,0035 0,0024 0,0035 0,0024 0,0035 0,0024 0,0035 0,0024 0,0035 0,0024 0,0035 0,0024 0,0035 0,0024 0,0035 0,0024 0,0035 0,0025 0,0025 0,0035 0,0025 0,0035 0,0026 0,0035 0,0026 0,0000000000	0 0 0 1 1 1 2 3 4 6 9 14 21 32 47 71 106 166 166 1239 359			0,0006 0,0015 0,0024 0,0035 0,0054 0,0082 0,0123 0,0185 0,0278 0,0415 0,0623 0,0415 0,0623 0,0415 0,0623 0,0445 0,2063 0,3053 0,3053 0,4487 0,6530 0,9372 1,3192 1,8085	0,1006 0,1010 0,1012 0,1024 0,1036 0,1054 0,1054 0,1054 0,1123 0,11185 0,1278 0,11185 0,1278 0,14115 0,1623 0,14115 0,2388 0,3063 0,2388 0,3063 0,5487 0,7530 1,0372 1,4132 1,9086	0 0 0 1 1 1 2 3 4 6 9 14 21 32 47 71 106 150 239 359			0,0001 0,0002 0,0003 0,0005 0,0008 0,0012 0,0012 0,0012 0,0012 0,0027 0,0040 0,0027 0,0040 0,0050 0,0030 0,0030 0,0030 0,0030 0,0030 0,0030 0,0030 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0003 0,0002 0,0003 0,0005 0,	0 0 0 0 1 1 1 2 3 5 7 11 15 24 35 53 80 120 180			0,0007 0,0011 0,0015 0,0025 0,0038 0,0087 0,0132 0,0132 0,0132 0,0132 0,0257 0,0445 0,0257 0,0445 0,0257 0,0445 0,0257 0,0445 0,0425 0,148 0,3278 0,3278 0,4825 0,7039 1,0136 1,9379	0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359		
0,0006 0,0010 0,0015 0,0024 0,0035 0,0082 0,0082 0,0123 0,0082 0,0123 0,0278 0,0417 0,0624 0,0417 0,0624 0,0417 0,0632 0,0417 0,0632 0,0325 0,0433 0,0357 0,3057 0,3057 0,3057 0,3057 0,304 1,3210 1,3	0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539			0,0006 0,0015 0,0015 0,0024 0,0035 0,0054 0,0082 0,0123 0,0123 0,0123 0,0123 0,0125 0,0278 0,0415 0,0623 0,0415 0,0623 0,0415 0,0633 0,2063 0,3053 0,4487 0,5530 0,9372 1,3192 1,8086 2,3961	0,1006 0,1010 0,1015 0,1024 0,1036 0,1054 0,1082 0,1082 0,1123 0,1185 0,1278 0,1416 0,1278 0,1416 0,1278 0,1416 0,1523 0,1523 0,1523 0,1523 0,1523 0,1523 0,1523 0,1523 0,1523 0,1523 0,1523 0,1523 0,1523 0,1523 0,1523 0,1524000000000000000000000000000000000000	0 0 0 1 1 2 3 4 5 9 14 21 32 47 71 106 150 239 359 539			6,0001 0,0002 0,0003 0,0008 0,0008 0,0018 0,0018 0,0027 0,0040 0,0027 0,0040 0,0027 0,0040 0,0040 0,0040 0,0030 0,0030 0,0030 0,0030 0,0030 0,0030 0,0030 0,0000 0,000800000000	0 0 0 0 1 1 1 2 3 5 7 1 1 1 5 7 1 1 1 5 5 7 1 1 1 5 5 7 1 1 1 5 5 7 1 1 1 5 5 7 1 1 1 5 5 7 1 1 1 2 4 35 5 5 7 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0,0007 0,0011 0,0015 0,0025 0,0038 0,0087 0,0087 0,0198 0,0297 0,0445 0,0297 0,0445 0,0297 0,0445 0,0997 0,1488 0,3278 0,4825 0,7039 1,0135 1,4335 1,9779 2,5422	0 0 0 1 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539		
0,0006 0,0010 0,0015 0,0024 0,0035 0,0082 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0125 0,027 0,0417 0,0692 0,1390 0,2065 0,3057 0,4493 0,6539 0,9384 1,3210 1,8109 2,3991 1,8109 2,39479	0 0 0 1 1 2 3 4 6 9 14 21 32 47 71 106 239 359 359 808			0,0006 0,0015 0,0024 0,0035 0,0054 0,0082 0,0123 0,0185 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0053 0,04487 0,5530 0,9372 1,3192 1,8085 2,3961 3,0442	0,1006 0,1010 0,1015 0,1024 0,1036 0,1054 0,1054 0,1054 0,1054 0,1054 0,1054 0,1123 0,1123 0,1123 0,1123 0,1123 0,1123 0,1123 0,1278 0,1016 0,1024 0,1025 0,1024 0,1024 0,1026 0,1024 0,1026 0,1026 0,1024 0,1026 0,1026 0,1026 0,1028 0,5487 0,5587 1,0036 0,5587 0,0058 0,0058 0,0058 0,0058 0,0058 0,0058 0,0058 0,0059 0,0050 0,00000000	0 0 0 1 1 2 3 4 6 9 14 21 32 47 71 106 150 239 359 359 808			6,0001 0,0002 0,0003 0,0008 0,0018 0,0018 0,0018 0,0027 0,0040 0,0030 0,0030 0,0030 0,0030 0,0030 0,0030 0,0030 0,0030 0,0030 0,0030 0,0030 0,0030 0,0030 0,0030 0,000800000000	0 0 0 0 1 1 1 2 3 5 7 11 16 24 35 53 80 120 180 269 404			0,0007 0,0011 0,0015 0,0025 0,0038 0,0087 0,0132 0,0132 0,0132 0,0237 0,0445 0,0297 0,0445 0,0297 0,1488 0,2213 0,3278 0,4825 0,7039 1,0136 1,4335 1,9779 2,6422 3,3908	0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 239 359 539 808		
0,0006 0,0010 0,0015 0,0024 0,0035 0,0082 0,0082 0,0123 0,0082 0,0123 0,0278 0,0417 0,0624 0,0417 0,0624 0,0417 0,0632 0,0417 0,0632 0,0325 0,0433 0,0357 0,3057 0,3057 0,3057 0,3057 0,304 1,3210 1,3	0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539			0,0006 0,0015 0,0015 0,0024 0,0035 0,0054 0,0082 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0053 0,0415 0,0653 0,0053 0,0053 0,0053 0,0053 0,0053 0,0053 0,0053 0,0053 0,0053 0,0053 0,0053 0,0055 0,0054 0,0055 0,9372 1,3192 1,30865 2,3961	0,1006 0,1010 0,1015 0,1024 0,1036 0,1054 0,1082 0,1082 0,1123 0,1185 0,1278 0,1416 0,1278 0,1416 0,1278 0,1416 0,1523 0,1523 0,1523 0,1523 0,1523 0,1523 0,1523 0,1523 0,1523 0,1523 0,1523 0,1523 0,1523 0,1523 0,1523 0,1524000000000000000000000000000000000000	0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 150 239 359 539			6,0001 0,0002 0,0003 0,0008 0,0008 0,0018 0,0018 0,0027 0,0040 0,0027 0,0040 0,0027 0,0040 0,0040 0,0040 0,0030 0,0030 0,0030 0,0030 0,0030 0,0030 0,0030 0,0000 0,000800000000	0 0 0 0 1 1 1 2 3 5 7 1 1 1 5 7 1 1 1 5 5 7 1 1 1 5 5 7 1 1 1 5 5 7 1 1 1 5 5 7 1 1 1 5 5 7 1 1 1 2 4 35 5 5 7 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0,0007 0,0011 0,0015 0,0025 0,0038 0,0087 0,0087 0,0198 0,0297 0,0445 0,0297 0,0445 0,0297 0,0445 0,0997 0,1488 0,3278 0,4825 0,7039 1,0135 1,4335 1,9779 2,5422	0 0 0 1 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539		
0,0006 0,0010 0,0012 0,0024 0,0035 0,0082 0,0123 0,0185 0,0278 0,0417 0,06524 0,0278 0,0417 0,06524 0,1390 0,2066 0,3057 0,2065 0,3057 0,2065 0,3057 0,2065 0,3057 0,2065 0,2065 0,2065 0,2065 0,2065 0,2065 0,2065 0,2065 0,2065 0,2065 0,2065 0,2065 0,20750	0 0 0 1 1 1 2 3 4 6 9 9 14 21 32 47 71 106 160 160 160 359 359 359 359 359 808 81212			0,0006 0,0015 0,0024 0,0035 0,0082 0,0123 0,0185 0,0278 0,0185 0,0278 0,0416 0,0623 0,0416 0,0623 0,0416 0,0623 0,04487 0,6530 0,4487 0,6530 0,9372 1,3192 1,8085 2,3951 3,0442	0,1006 0,1010 0,1012 0,1024 0,1036 0,1054 0,1054 0,1054 0,1123 0,1123 0,1135 0,1278 0,1135 0,1278 0,1416 0,1623 0,1931 0,2388 0,3063 0,5487 0,7530 0,5487 0,7530 1,0372 1,4192 1,9085 2,4961 3,7877	0 0 0 1 1 2 3 4 6 9 14 21 32 47 71 106 150 239 359 539 808 1212			0,0001 0,0002 0,0003 0,0005 0,0008 0,0012 0,0012 0,0012 0,0012 0,0012 0,0012 0,0012 0,0012 0,0012 0,0012 0,0012 0,0012 0,0012 0,0003 0,0012 0,0003 0,0005 0,0003 0,0005 0,	0 0 0 0 1 1 1 2 3 5 7 11 16 24 35 53 80 120 180 269 404 505			0,0007 0,0011 0,0015 0,0025 0,0038 0,0088 0,0087 0,0132 0,0132 0,0132 0,0138 0,0237 0,0445 0,0237 0,0445 0,0237 0,0445 0,0237 0,0445 0,0237 0,0445 0,0237 0,0445 0,0237 0,0445 0,0237 0,0445 0,025 0,006 0,005 0,00000000	0 0 0 1 1 1 2 3 4 6 9 14 21 32 47 71 106 160 1239 359 539 808 212		
0,0006 0,0010 0,0015 0,0024 0,0035 0,0082 0,0082 0,0123 0,0082 0,0123 0,0082 0,0123 0,0082 0,0123 0,0082 0,0123 0,0082 0,0123 0,0082 0,0123 0,0035 0,0000000000	0 0 0 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 808 239 359 808 1212 1818			0,0006 0,0015 0,0015 0,0024 0,0035 0,0054 0,0082 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0053 0,0278 0,0053 0,9372 1,3192 1,8086 2,3961 3,00442 3,0045	0,1006 0,1010 0,1015 0,1024 0,1036 0,1054 0,1082 0,1082 0,1123 0,1185 0,1278 0,1416 0,1278 0,1416 0,1278 0,1416 0,1278 0,1416 0,1523 0,1082 0,1082 0,1092 0,1002 0,0000000	0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 150 239 808 239 808 239 808 239 808	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		6,0001 0,0002 0,0003 0,0008 0,0008 0,0018 0,0018 0,0027 0,0010 0,0010 0,000000	0 0 0 0 1 1 1 2 3 5 7 1 1 1 5 7 1 1 1 6 24 35 5 3 80 120 180 269 404 805 909			0,0007 0,0011 0,0015 0,0025 0,0038 0,0087 0,0192 0,0198 0,0297 0,0445 0,0297 0,0445 0,0297 0,0445 0,0997 0,1488 0,3278 0,0997 0,1488 0,3278 0,4359 0,4459 0,4540 0,4540 0,4540 0,4540 0,4540 0,4540 0,4540 0,4540 0,4540 0,4540 0,4540 0,4540 0,4540 0,4540 0,4540 0,4540 0,4540 0,4540 0,4540000000000	0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 359 808 122 21818	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0006 0,0010 0,0015 0,0024 0,0035 0,0082 0,0082 0,0123 0,0082 0,0123 0,0082 0,0123 0,0078 0,0078 0,0078 0,0078 0,0078 0,0078 0,0078 0,0057 0,00417 0,0092 0,1390 0,0055 0,0092 0,1390 0,0055 0,0092 0,0092 0,0092 0,0092 0,0095 0,0000 0,0000 0,0000000000	0 0 0 1 1 2 3 4 5 9 14 21 32 47 71 106 239 359 808 1212 808 1212 818 82727	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0006 0,0015 0,0024 0,0035 0,0054 0,0082 0,0123 0,0123 0,0123 0,0123 0,0123 0,0278 0,0263 0,0253 0,2463 0,2463 0,9372 1,3192 1,3086 2,3951 3,0442 3,6677 4,6785	0,1006 0,1010 0,1015 0,1024 0,1036 0,1054 0,1054 0,1054 0,1054 0,1054 0,1054 0,1278 0,1123 0,1123 0,1123 0,1123 0,1278 0,1416 0,1623 0,1416 0,1623 0,1416 0,1623 0,104 0,103 0,104 0,104 0,104 0,105 0,104 0,105 0,104 0,105 0,104 0,105 0,104 0,105 0,104 0,105 0,104 0,105 0,005 0,00000000	0 0 0 1 1 1 2 3 4 6 9 14 21 32 47 71 106 150 239 359 539 808 1212 1818 82727	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		6,0001 0,0002 0,0003 0,0005 0,0008 0,0018 0,0018 0,0027 0,0040 0,0050 0,0050 0,0050 0,0050 0,0050 0,0050 0,0050 0,0050 0,0050 0,0050 0,0050 0,0050 0,0050 0,0050 0,0008 0,0009 0,000800000000	0 0 0 0 1 1 1 2 3 5 7 11 1 2 4 35 5 7 11 1 6 24 35 53 80 120 180 269 404 606 909 1364			0,0007 0,0011 0,0015 0,0025 0,0038 0,0087 0,0132 0,0132 0,0132 0,0257 0,0445 0,0257 0,0445 0,0297 0,0445 0,0297 0,1488 0,4825 0,0099 1,0136 1,4335 1,9779 2,6422 2,6422 2,6424 2,6425 3,3908 4,1540 4,844	0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 239 359 539 808 239 259 539 808 2121 1818 2727		
0,0006 0,0010 0,0015 0,0024 0,0035 0,0082 0,0082 0,0123 0,0082 0,0123 0,0082 0,0123 0,0078 0,0079 0,00780 0,00780000000000	0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 239 359 808 1212 808 1212 808 1212 808 1212 818 808 1212 809 809 812 812 809 809 809 809 809 809 809 809 809 809	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0006 0,0015 0,0024 0,0035 0,0054 0,0082 0,0123 0,0123 0,0128 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0053 0,0415 0,0053 0,0415 0,0053 0,0487 1,3192 1,3086 2,3961 3,0442 3,6877 4,5785 4,57768 5,1069	0,1006 0,1010 0,1015 0,1024 0,1036 0,1054 0,1054 0,1054 0,1054 0,1054 0,1054 0,1054 0,1278 0,1123 0,1278 0,1416 0,1623 0,12178 0,1416 0,1623 0,1416 0,1623 0,1416 0,1623 0,1416 0,1623 0,1278 0,1416 0,1623 0,1278 0,1416 0,1623 0,1278 0,2388 0,5487 0,7530 1,4192 1,9085 2,4492 1,9085 2,4492 1,9085 2,4492 1,9775 5,0477 5,5477 5,5477 5,5477 5,5477 5,5477 5,5477 5,5477 5,5477 5,5477 5,5477 5,5477 5,5477 5,5477 5,54775 5,54777 5,5467 5,547755,54775 5,54775 5,54775 5,54775 5,54775 5,547755,54775 5,54775 5,54775 5,54775 5,547555,54775 5,54775 5,54755 5,547555,54775 5,54755 5,547555,54755 5,547555 5,547555555555555555555	0 0 0 1 1 2 3 4 5 9 14 21 32 47 71 106 150 239 359 539 808 1212 1818 2727 4091 6135 9204	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		6,0001 0,0002 0,0003 0,0008 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0006 0,0030 0,0030 0,0030 0,0030 0,0030 0,0030 0,0030 0,0030 0,0030 0,0030 0,0030 0,0030 0,0030 0,0030 0,0030 0,0030 0,000800000000	0 0 0 0 1 1 1 2 3 5 7 11 1 2 4 35 5 7 11 1 16 24 35 53 80 120 180 269 404 606 909 1364 2045 3068 4502			0,0007 0,0011 0,0015 0,0025 0,0038 0,0088 0,0037 0,0132 0,0132 0,0132 0,0132 0,0132 0,0132 0,0257 0,0445 0,0257 0,0445 0,0257 0,0445 0,0257 0,0445 0,0257 0,0445 0,0257 0,0445 0,0258 0,0057 0,0045 0,0057 0,0045 0,0057 0,0045 0,0057 0,0045 0,0057 0,0045 0,0057 0,0045 0,0057 0,0045 0,0057 0,00450000000000	0 0 0 1 1 1 2 3 4 6 9 14 21 32 47 71 106 160 160 159 359 359 539 808 1212 1818 2277 4091	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0006 0,0010 0,0012 0,0024 0,0035 0,0082 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,005 0,00000000	0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 150 150 239 359 539 888 1212 1818 2727 4091 6136 9204 13805	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0006 0,0015 0,0024 0,0035 0,0054 0,0082 0,0123 0,0185 0,0278 0,0185 0,0278 0,0416 0,0623 0,0416 0,0623 0,04487 0,0530 0,3053 0,4487 0,5530 0,3487 1,3192 1,8086 2,3961 3,0442 3,6877 4,5785 4,9477 5,0768 5,0794	0,1006 0,1010 0,1015 0,1024 0,1035 0,1024 0,1036 0,1036 0,1036 0,1036 0,1038 0,1123 0,1185 0,1278 0,1415 0,1623 0,1415 0,1623 0,1415 0,1623 0,1415 0,1623 0,1415 0,5487 0,7530 1,0372 0,5487 0,7530 1,0375 0,5487 0,54770,51788 0,54777 0,51788 0,54777 0,51788 0,517940,51794	0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 1660 239 359 539 808 1212 1818 2727 4091 6135 9204 13806	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		6,0001 0,0002 0,0003 0,0005 0,0008 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0008 0,0018 0,0009 0,0008 0,0009 0,0008 0,0009 0,000000	0 0 0 0 1 1 1 2 3 5 7 11 1 6 24 35 53 80 120 180 269 404 606 909 1364 2045 3068 4502 6903	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0007 0,0011 0,0015 0,0025 0,0038 0,0087 0,0132 0,0132 0,0132 0,0132 0,0132 0,0132 0,0132 0,0132 0,0137 0,0445 0,0278 0,0445 0,0278 0,0445 0,0278 0,0445 0,0278 0,0445 0,0278 0,0445 0,0278 0,0445 0,0278 0,0445 0,0058 0,0059 0,0045 0,0058 0,0058 0,0045 0,0058 0,0045 0,0059 0,0045 0,0050000000000	0 0 0 1 1 1 2 3 4 6 9 14 21 32 47 71 106 160 160 160 159 9 808 1212 1818 2727 4091 6136 9204 13805	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0006 0,0010 0,0015 0,0024 0,0035 0,0082 0,0082 0,0123 0,0082 0,0123 0,0082 0,0123 0,0082 0,0123 0,0082 0,0080 0,00000000	0 0 0 1 1 1 2 3 4 5 9 14 21 2 3 4 7 1 105 150 239 359 808 1212 1818 2727 4091 1818 2727 4091 2135 9 539 808 2125 2727 4031 2035 2040 2036 2040 2036 2070 2037 2037 2037 2037 2037 2037 2037	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0006 0,0015 0,0024 0,0035 0,0024 0,0082 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0278 0,0415 0,0623 0,0278 0,0415 0,0623 0,0278 0,0415 0,0278 0,0278 0,0278 0,0278 0,0278 0,0278 0,0278 0,0278 0,0278 0,0278 0,0278 0,0053 0,0278 0,0253 0,0353 0,0372 1,8086 2,3961 3,0442 3,0642 3,0647 4,2517 4,5785 5,0768 5,0768 5,0794 5,0724	0,1006 0,1010 0,1015 0,1024 0,1036 0,1054 0,1082 0,1082 0,1123 0,1278 0,1416 0,1278 0,1416 0,1278 0,1416 0,1278 0,1416 0,1278 0,1416 0,1278 0,1416 0,1037 0,1278 0,1416 0,1037 0,1278 0,1037 0,1278 0,10370000000000000000000000000000000000	0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 105 150 239 359 539 808 1212 1818 2727 4091 6135 9204 13806 20709	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		6,0001 0,0002 0,0003 0,0008 0,0008 0,0018 0,0012 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0012 0,0010 0,0010 0,000800000000	0 0 0 0 1 1 1 2 3 5 7 1 1 1 5 7 7 1 1 1 5 7 7 1 1 1 5 7 7 1 1 1 5 7 7 1 1 1 5 7 7 1 1 1 5 7 7 1 1 1 5 7 7 1 1 1 5 7 7 1 1 1 5 7 7 1 1 1 5 5 7 7 1 1 1 5 7 7 1 1 1 5 7 7 1 1 1 5 7 7 1 1 1 5 7 7 1 1 1 5 7 7 1 1 1 5 7 7 1 1 1 5 7 7 1 1 1 5 7 7 1 1 1 5 7 7 1 1 1 5 7 7 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0007 0,0011 0,0015 0,0025 0,0038 0,0087 0,0132 0,0087 0,0132 0,025 0,0087 0,0132 0,0087 0,0132 0,0213 0,0213 0,0213 0,0213 0,0213 0,0213 0,0213 0,0213 0,0213 0,0213 0,0213 0,025 0,00000000	0 0 0 1 1 1 2 3 4 5 9 14 21 3 4 5 9 14 21 32 47 71 106 150 239 359 808 1212 1818 2727 4091 1216 135 539 806 12127 404 13806	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0006 0,0010 0,0015 0,0024 0,0035 0,0082 0,0082 0,0123 0,0082 0,0123 0,0278 0,0417 0,0624 0,0278 0,0278 0,0417 0,0624 0,0322 0,1390 0,2065 0,3087 0,4493 0,0384 1,3210 1,8109 2,3991 1,3210 1,8109 2,3991 3,0479 3,0427 2,555	0 0 0 1 1 1 2 3 4 6 9 14 21 32 47 71 106 239 359 808 1212 239 359 808 1212 1818 2727 4091 1818 2727 4091 11818 2727 4091 1306 5204 13806 5204	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0006 0,0015 0,0024 0,0035 0,0024 0,0082 0,0123 0,0123 0,0123 0,0123 0,0128 0,0278 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0053 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0253 0,0453 0,0487 1,3192 1,3192 1,3045 2,3951 3,0442 3,6677 4,2517 4,5776 5,1069 5,0794 5,0794 5,0794 5,0794	0,1006 0,1010 0,1015 0,1024 0,1036 0,1054 0,1054 0,1054 0,1054 0,1054 0,1054 0,1054 0,1278 0,1123 0,1278 0,1416 0,1623 0,1278 0,1416 0,1623 0,1278 0,1416 0,1623 0,1278 0,1416 0,1623 0,1278 0,1416 0,1623 0,1278 0,1416 0,1623 0,1278 0,4415 0,5487 0,7532 1,4192 1,9085 5,0477 5,1785 5,0477 5,1785 5,2099 5,1794 5,2099 5,1794 5,2099 5,1794 5,2099 5,1794 5,2099 5,1794 5,2099 5,1794 5,2099 5,1794 5,2099 5,1794 5,2099 5,1794 5,2099 5,1794 5,2099 5,1794 5,2099 5,1794 5,2099 5,1794 5,2099 5,1794 5,2099 5,1794 5,2099 5,1794 5,2099 5,1794 5,2099 5,1794 5,2099 5,1794 5,2099 5,2099 5,1794 5,2099 5,2009 5,2009 5,2009 5,2009 5,	0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 150 239 359 539 808 1212 1818 2727 4091 6135 9204 13806 20709 331064	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		6,0001 0,0002 0,0003 0,0008 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0010 0,0018 0,0018 0,0010 0,0018 0,0010 0,0010 0,0010 0,0010 0,0000 0,0010 0,000000	0 0 0 0 1 1 1 2 3 5 7 11 1 2 4 35 5 7 7 11 1 5 7 7 11 1 6 24 35 5 3 80 120 180 269 404 505 909 1364 2045 3068 4602 6903 10555 15532	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0007 0,0011 0,0015 0,0025 0,0038 0,0087 0,0132 0,0087 0,0132 0,0297 0,0445 0,0297 0,0445 0,0297 0,0445 0,0297 0,0445 0,0297 0,0445 0,0297 0,0445 0,0297 0,0445 0,0297 0,0445 0,0297 0,0445 0,0097 0,1488 0,927 0,4485 0,9397 0,4485 0,9397 0,4485 0,9397 0,4485 0,9397 0,4485 0,9397 0,4485 0,9397 0,4485 0,9397 0,4485 0,9397 0,4485 0,9397 0,4485 0,9397 0,4485 0,9397 0,4485 0,9397 0,4485 0,9397 0,4485 0,9397 0,4485 0,9397 0,4485 0,9397 0,4485 0,9397 0,4485 0,9397 0,4485 0,9398 4,556 2,5986 0,9397 0,4485 0,9397 0,4485 0,9397 0,9398 4,5562 0,9398 4,5562 0,9398 4,5562 0,9397 0,9475 0,9476 0,9476 0,9476 0,9476 0,9476 0,9476 0,9476 0,94760,9476 0,947600000	0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 239 359 808 1212 239 359 808 1212 121 126 239 359 808 1212 121 14 14 15 14 15 16 16 16 16 16 16 16 16 16 16	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0006 0,0010 0,0015 0,0024 0,0035 0,0082 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,012 0,012 0,0123 0,024 0,0123 0,0275 0,0278 0,0275 0,0278 0,0275 0,0275 0,0278 0,0275 0,02570000000000000000000000000000000000	0 0 0 1 1 1 2 3 4 5 9 14 21 32 4 7 1 106 150 150 150 150 150 129 359 539 539 539 539 808 1212 1812 1827 4091 6136 1227 4091 6136 1227 4091 6136 120 120 120 120 120 120 120 120	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0006 0,0015 0,0024 0,0035 0,0025 0,0082 0,0123 0,0185 0,0278 0,0185 0,0278 0,0416 0,0623 0,0416 0,0623 0,0416 0,0623 0,0416 0,0623 0,04487 0,0533 0,4487 0,5530 0,9312 1,3192 1,8086 2,3961 3,0442 3,6877 4,5785 4,9477 5,0768 5,1069 5,0794 5,0218 4,9473 4,8542	0,1006 0,1010 0,1015 0,1024 0,1036 0,1024 0,1036 0,1036 0,1036 0,1036 0,1038 0,1038 0,1123 0,1185 0,1278 0,1123 0,1185 0,1278 0,11185 0,1278 0,11185 0,1278 0,11185 0,1278 0,1123 0,1288 0,3063 0,5487 0,5487 0,5487 0,5487 0,5487 0,5487 1,9086 2,9961 1,9086 2,4961 1,9086 2,4961 1,9086 2,4961 1,9086 2,4961 2,50877 5,1798 5,1278 5,1278 5,1278	0 0 0 1 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091 6135 9204 13806 20709 31064 46596	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		6,0001 0,0002 0,0003 0,0005 0,0008 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0008 0,0018 0,0008 0,0018 0,0009 0,0008 0,0009 0,0008 0,0009 0,0008 0,0009 0,00000 0,000000	0 0 0 0 1 1 1 2 3 5 7 11 1 2 4 3 5 5 7 11 1 1 6 24 35 5 3 80 120 180 259 404 606 909 1364 2045 3068 4602 6903 10355 15352 23298	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0007 0,0011 0,0015 0,0025 0,0038 0,0087 0,0132 0,0132 0,0132 0,0137 0,0445 0,0257 0,0445 0,0257 0,0445 0,0258 0,0258 0,0445 0,0258 0,0445 0,0258 0,0445 0,0258 0,0445 0,0258 0,0458 0,0258 0,0458 1,0379 2,6422 3,3908 4,1540 4,8441 5,3889 5,7632 5,9960 6,1478 5,3889 5,7632 5,9960 6,1476 5,4778	0 0 0 1 1 1 2 3 4 5 9 14 21 32 4 5 9 14 21 32 71 106 150 159 359 359 359 359 359 359 359 359 359 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0006 0,0010 0,0015 0,0024 0,0035 0,0082 0,0082 0,0123 0,0082 0,0123 0,0082 0,0123 0,0082 0,0123 0,0082 0,0082 0,0123 0,0082 0,0123 0,0082 0,0123 0,0082 0,0123 0,0082 0,0123 0,0082 0,0123 0,0082 0,0123 0,0082 0,0080 0,00000000	0 0 0 1 1 1 2 3 4 5 9 14 21 3 4 7 1 105 150 239 359 808 1212 1818 2727 4091 1818 2727 4091 1818 2727 4091 21818 2727 4091 2195 204 5399 3509 8082 2127 2009 31054 5395 20709 31054 569893	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0006 0,0015 0,0024 0,0035 0,0024 0,0082 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0053 0,0278 0,0415 0,0653 0,0278 0,0415 0,0653 0,0278 0,0415 0,0533 0,4487 0,0533 0,4487 1,8086 2,3961 3,0442 3,66877 4,2517 4,5785 5,0768 5,1059 5,0794 5,0218 4,9473 3,6842 4,7815	0,1006 0,1010 0,1015 0,1024 0,1035 0,1024 0,1082 0,1123 0,1185 0,1278 0,1416 0,1278 0,1416 0,1278 0,1416 0,1278 0,1416 0,1623 0,1623 0,1623 0,1623 0,1623 0,1623 0,1624000000000000000000000000000000000000	0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 105 150 239 359 539 808 1212 1818 2727 4091 6135 9204 13806 20709 31064 45595	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		6,0001 0,0002 0,0003 0,0008 0,0008 0,0018 0,0012 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,000800000000	0 0 0 0 1 1 1 2 3 5 7 1 1 1 5 7 7 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0007 0,0011 0,0015 0,0025 0,0038 0,0087 0,0132 0,0087 0,0132 0,025 0,0087 0,0198 0,0253 0,0087 0,048 0,0253 0,0097 0,0445 0,0297 0,0445 0,0997 0,0445 0,0997 0,0445 0,0997 0,0445 0,0997 0,0445 0,0997 0,0445 0,0997 0,0445 0,0097 0,000000	0 0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 239 359 808 1212 1818 2727 4091 1818 2727 4091 135 1202 1818 2727 409 135 1202 1818 2727 409 135 105 105 105 105 105 105 105 10	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0006 0,0010 0,0015 0,0024 0,0035 0,0082 0,0082 0,0123 0,0082 0,0123 0,0278 0,0417 0,0624 0,0278 0,0278 0,0417 0,0624 0,0322 0,1390 0,2065 0,3087 0,4493 0,0392 0,3934 1,3210 1,8109 2,3991 1,3210 1,8109 2,3991 3,0479 3,6922 4,5631 5,0621 5,0119 5,0640 5,0257 4,5655 4,8665 4,7805	0 0 0 1 1 1 2 3 4 6 9 14 21 32 47 71 106 239 359 808 1212 239 359 808 1212 239 359 808 1212 1215 150 239 359 808 1212 239 359 808 1212 1212 1202 1202 1202 1202 1202	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0006 0,0015 0,0024 0,0035 0,0024 0,0082 0,0123 0,0123 0,0123 0,0128 0,0278 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0278 0,0415 0,0052 0,0054 0,0052 0,0053 0,0055	0,1006 0,1010 0,1015 0,1024 0,1036 0,1054 0,1054 0,1054 0,1054 0,1054 0,1054 0,1054 0,1278 0,1123 0,1278 0,1415 0,1278 0,1416 0,1238 0,1416 0,1238 0,1416 0,1238 0,1416 0,1238 0,1416 0,1238 0,1416 0,1238 0,1416 0,1238 0,1416 0,1238 0,1416 0,1238 0,1416 0,1238 0,1238 0,1416 0,1238 0,1416 0,1238 0,1237 0,1238 0,1237 0,1238 0,1237 0,1238 0,1237 0,1238 0,1238 0,1238 0,1237 1,4159 0,7530 0,7547 0,7535 5,0477 5,1268 5,2699 5,1794 5,1278 5,0477 5,1278 5,2699 5,1794 5,1278 5,0473 0,1238 0,1238 0,1238 0,1238 0,1238 0,1238 0,1237 1,4192 1,5195 5,0477 5,1269 5,1278 5,2699 5,1794 5,1278 5,0473 4,9662 4,2695 5,12784 5,2699 5,1794 5,2699 5,2794 5	0 0 0 1 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091 6135 9204 13806 20709 31064 46596 59893 104440	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		6,0001 0,0002 0,0003 0,0008 0,0008 0,0018 0,0018 0,0027 0,0010 0,0010 0,0000 0,0010 0,000000	0 0 0 0 1 1 1 2 3 5 7 1 1 1 2 4 35 5 7 7 11 1 6 24 35 5 3 80 120 180 269 404 800 269 404 800 269 1364 2045 909 1364 2045 909 1364 2045 913 2055 15532 23298 34947 55420	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0007 0,0011 0,0015 0,0025 0,0038 0,0087 0,0132 0,0132 0,0297 0,0445 0,0297 0,4488 0,4825 0,7039 1,0445 0,4825 0,7039 1,0445 0,4825 0,7039 1,0445 0,5426 0,54770 0,5426 0,54770 0,5426 0,54770 0,5426 0,57730 0,57780000000000000000000000000000000000	0 0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 239 359 808 1212 1818 2727 4091 1818 2727 4091 1818 2727 4052 2609 2019 2014 1818 2727 4052 2014 1818 2727 4055 2015 20	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0006 0,0010 0,0015 0,0024 0,0035 0,0082 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0278 0,0123 0,0278 0,0057 0,4493 0,0356 0,3057 0,4493 0,5399 0,3384 0,3557 1,3210 1,8109 2,3991 3,64922 1,50822 5,0640 5,0257 4,8565 4,7830 4,7830	0 0 0 1 1 2 3 4 6 9 14 21 32 4 7 14 21 32 4 7 14 21 32 4 7 150 150 239 359 539 808 1212 1818 808 1212 1810 1827 4091 6136 5204 13805 2004 13805 2004 13805 2004 13805 2004 13805 2004 13805 2004 13805 2004 13805 2004 13805 2005 100	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0006 0,0015 0,0024 0,0035 0,0024 0,0082 0,0123 0,0185 0,0278 0,01185 0,0278 0,0416 0,0623 0,0416 0,0623 0,0416 0,0623 0,0418 0,0633 0,4487 0,5630 0,9372 1,3192 1,3086 2,3961 3,0442 3,6877 4,5785 4,9477 5,0768 5,0794 5,0768 5,0794 4,56528 4,9473 4,8542 4,7815 4,7988 4,6578	0,1006 0,1010 0,1015 0,1024 0,1036 0,1024 0,1036 0,1024 0,1036 0,1036 0,1038 0,1038 0,1123 0,1123 0,1123 0,1123 0,1123 0,1123 0,1228 0,1123 0,1238 0,3063 0,4053 0,5487 0,7530 1,0372 1,0365 2,4961 1,4192 1,9086 2,4961 1,4192 1,9086 2,4961 3,1442 3,7877 5,1768 5,2069 5,1794 5,2079 5,1794 5,2079 5,1794 5,2079 5,1794 5,2079 5,1794 5,2079 5,1794 5,2079 5,1794 5,2079 5,1794 5,2079 5,	0 0 0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091 6136 9204 13806 20709 31064 46596 58893 104840 157250	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		6,0001 0,0002 0,0003 0,0005 0,0008 0,0018 0,0018 0,0018 0,0027 0,0000 0,0018 0,0027 0,0000 0,0018 0,0027 0,0003 0,0018 0,0027 0,0003 0,00000000	0 0 0 0 1 1 1 2 3 5 7 11 1 6 24 35 5 7 11 1 6 24 35 5 3 80 120 180 269 404 606 909 1364 2045 3068 4602 6903 10355 12532 23298 34947 52420 78630	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0007 0,0011 0,0015 0,0025 0,0038 0,0087 0,0132 0,0132 0,0138 0,0257 0,0132 0,0138 0,0257 0,0445 0,0257 0,0445 0,0257 0,1488 0,2213 0,03278 0,4825 0,0397 0,1488 0,4825 0,7039 1,0136 1,4335 1,9779 2,6422 5,9960 6,1478 6,3278 6,5713 6,5752 5,9782 5,7782 5	0 0 0 0 1 1 1 2 3 4 5 9 14 21 32 4 7 14 21 32 4 7 71 106 150 239 359 539 808 1212 1818 2727 4091 6136 20709 204 13806 20709 204 13806 20709 10505 10545 10545 10545 10545 10555 10555 1055555 1055555 105555 105555 1055555 105555 105555 105555 105555 105555 105555 105555 105555 105555 105555 105555 105555 105555 1055555 1055555 1055555 1055555 105555555 105555555 10555555 105555555 105555555 10555555555	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0006 0,0010 0,0015 0,0024 0,0035 0,0082 0,0082 0,0123 0,0082 0,0123 0,0082 0,0080 0,00000000	0 0 0 1 1 1 2 3 4 5 9 14 21 3 4 7 1 105 150 239 359 808 1212 1818 2727 4091 1818 2727 4091 1818 2727 4091 1818 2727 4091 1818 2727 4091 1616 1616 160 239 359 808 1212 1818 2727 4091 1616 1616 1616 1616 1616 1616 1616 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0006 0,0015 0,0024 0,0035 0,0024 0,0082 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0053 0,0278 0,0415 0,0653 0,0278 0,0415 0,0653 0,0278 0,0415 0,0533 0,0415 0,0053 0,0278 0,0053 0,0278 0,0053 0,0278 0,0053 0,0055	0,1006 0,1010 0,1015 0,1024 0,1035 0,1024 0,1082 0,1123 0,1278 0,1416 0,1278 0,1416 0,1278 0,1416 0,1278 0,1416 0,1278 0,1416 0,1278 0,1416 0,1278 0,1416 0,1278 0,1278 0,1416 0,1278000000000000000000000000000000000000	0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 105 150 239 359 539 808 1212 1818 2727 4091 6135 9204 13806 20709 31064 13806 20709 31064 13806 20709 31064 13806 20709 31064 13806 20709 31064 15595	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		6,0001 0,0002 0,0003 0,0008 0,0008 0,0018 0,0018 0,0012 0,0010 0,0010 0,0010 0,000000	0 0 0 0 1 1 1 2 3 5 7 7 11 1 5 7 7 11 1 5 5 7 7 11 1 5 5 7 7 11 1 5 5 7 7 11 1 5 5 7 7 11 1 5 5 7 7 11 1 5 5 7 7 11 1 5 5 7 7 11 1 5 5 7 7 11 1 5 5 7 7 11 1 1 5 5 7 7 11 1 1 5 5 7 7 11 1 1 5 5 7 7 11 1 1 5 5 7 7 11 1 1 5 5 7 7 11 1 1 5 5 7 7 11 1 1 5 5 7 7 11 1 1 5 5 7 7 11 1 1 5 5 7 7 11 1 1 5 5 7 7 11 1 1 5 5 7 7 11 1 1 5 5 7 7 11 1 1 5 5 5 7 7 11 1 1 5 5 5 7 7 11 1 1 5 5 5 7 7 11 1 1 5 5 5 7 7 11 1 1 5 5 5 3 80 1 20 1 20 1 269 4 404 8 0 5 5 5 3 80 1 20 1 364 269 4 404 8 0 5 5 5 1 364 269 404 8 0 5 5 5 3 80 1 20 1 364 269 404 8 0 5 5 5 1 3 6 8 0 1 3 5 5 5 3 80 1 20 1 3 5 5 5 3 80 1 20 1 3 5 5 5 3 80 1 20 1 3 5 5 5 3 80 1 20 1 3 5 5 5 3 80 1 20 1 3 5 5 1 3 5 8 0 5 3 80 1 3 5 5 1 3 5 8 0 5 1 3 5 8 1 5 1 5 5 1 3 5 8 1 5 5 1 5 3 8 0 5 1 5 5 1 1 5 5 1 5 3 8 0 5 5 1 1 5 5 1 5 3 1 1 5 5 1 5 3 1 1 5 5 1 5 5 1 1 5 5 1 5 5 1 1 5 5 5 1 1 5 5 5 1 1 5 5 5 1 1 5 5 5 5 5 5 5 1 1 5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0007 0,0011 0,0015 0,0025 0,0038 0,0087 0,0132 0,0087 0,0132 0,025 0,0087 0,0132 0,0087 0,0132 0,0253 0,0097 0,0445 0,0997 0,0445 0,0997 0,0445 0,0997 0,0445 0,0997 0,0445 0,0997 0,0445 0,0997 0,0445 0,0997 0,0445 0,0097 0,0097 0,000000	0 0 0 0 1 1 1 2 3 4 5 9 14 21 3 4 5 9 14 21 32 47 71 106 150 239 808 1212 1818 2727 4091 1435 160 160 239 8082 1215 1818 2727 4091 1818 2727 4091 1818 2727 4091 1818 2727 4091 1818 2727 4091 1818 2727 4091 1818 2777 4093 1804 4455 2779 31064 4455 28393 1064 4455 23593 2045 2359 2045 20799 21055 20799 21055 22558 20799 210555 22558 22558 20799 210555 22558 22558 22558 22558 20799 22558 22558 22558 22558 22558 22558 22558 22558 22558 20799 225588 225588 225588 225588 225588 225588 225588 225588 20799 225588 22558	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0006 0,0010 0,0015 0,0024 0,0035 0,0082 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0278 0,0123 0,0278 0,0057 0,4493 0,0356 0,3057 0,4493 0,5399 0,3384 0,3557 1,3210 1,8109 2,3991 3,64922 1,50822 5,0640 5,0257 4,8565 4,7830 4,7830	0 0 0 1 1 2 3 4 6 9 14 21 32 4 7 14 21 32 4 7 14 21 32 4 7 150 150 239 359 539 808 1212 1818 808 1212 1810 1827 4091 6136 5204 13805 2004 13805 2004 13805 2004 13805 2004 13805 2004 13805 2004 13805 2004 13805 2004 13805 2005 100	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0006 0,0015 0,0024 0,0035 0,0024 0,0082 0,0123 0,0185 0,0278 0,01185 0,0278 0,0416 0,0623 0,0416 0,0623 0,0416 0,0623 0,0418 0,0633 0,4487 0,5630 0,9372 1,3192 1,3086 2,3961 3,0442 3,6877 4,5785 4,9477 5,0768 5,0794 5,0768 5,0794 4,56528 4,9473 4,8542 4,7815 4,7988 4,6578	0,1006 0,1010 0,1015 0,1024 0,1036 0,1024 0,1036 0,1024 0,1036 0,1036 0,1038 0,1038 0,1123 0,1123 0,1123 0,1123 0,1123 0,1123 0,1228 0,1123 0,1238 0,3063 0,4053 0,5487 0,7530 1,0372 1,0372 1,4192 1,9086 2,4961 1,4192 1,9086 2,4961 3,1442 3,7877 4,35175 5,0477 5,1768 5,2069 5,1794 5,2079 5,1794 5,2079 5,1794 5,2079 5,1794 5,2079 5,1794 5,2079 5,1794 5,2079 5,1794 5,2079 5,1794 5,2079 5,20757 5,20757 5,2075757575757575757575757575757575757575	0 0 0 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091 6136 9204 13806 20709 31064 46596 58893 104840 157250	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		6,0001 0,0002 0,0003 0,0005 0,0008 0,0018 0,0018 0,0018 0,0027 0,0000 0,0018 0,0027 0,0000 0,0018 0,0027 0,0003 0,0018 0,0027 0,0003 0,00000000	0 0 0 0 1 1 1 2 3 5 7 11 1 6 24 35 5 7 11 1 6 24 35 5 3 80 120 180 269 404 606 909 1364 2045 3068 4602 6903 10355 12532 23298 34947 52420 78630	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0007 0,0011 0,0015 0,0025 0,0038 0,0087 0,0132 0,0132 0,0138 0,0257 0,0132 0,0138 0,0257 0,0445 0,0257 0,0445 0,0257 0,1488 0,2213 0,03278 0,4825 0,0397 0,1488 0,4825 0,7039 1,0136 1,4335 1,9779 2,6422 5,9960 6,1478 6,3278 6,5713 6,5752 5,9782 5,7782 5	0 0 0 0 1 1 1 2 3 4 5 9 14 21 32 4 7 14 21 32 4 7 71 106 150 239 359 539 808 1212 1818 2727 4091 6136 20709 204 13806 20709 204 13806 20709 10505 10545 10545 10545 10545 10555 10555 1055555 1055555 105555 105555 1055555 105555 105555 105555 105555 105555 105555 105555 105555 105555 105555 105555 105555 105555 1055555 1055555 1055555 1055555 105555555 105555555 10555555 105555555 105555555 10555555555	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0006 0,0010 0,0015 0,0024 0,0035 0,0082 0,0123 0,0278 0,0123 0,0278 0,0417 0,0624 0,0278 0,0278 0,0278 0,0417 0,0532 0,0278 0,0417 0,0532 0,03932 0,1390 0,2065 0,3934 1,3210 1,8109 2,3991 1,8109 2,3991 3,0479 3,6922 4,2567 4,6838 4,9505 4,8655 4,7805 4,7107 4,6582 4,7107 4,6582 4,7107	0 0 0 1 1 1 2 3 4 4 5 9 14 21 32 47 71 106 239 359 808 1212 239 359 808 1212 1818 2727 4091 1818 2727 4091 1818 2727 4091 1818 2727 4091 1816 9 204 13806 20709 31064 465983 31064 235820 235825	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0006 0,0015 0,0024 0,0035 0,0024 0,0082 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0278 0,0253 0,0255	0,1006 0,1010 0,1015 0,1024 0,1036 0,1054 0,1082 0,1082 0,1082 0,1082 0,1082 0,1082 0,1084 0,1082 0,1084 0,1084 0,1084 0,1123 0,1238 0,124 0,1238 0,124 0,1238 0,124 0,1238 0,124 0,1231 0,1238 0,4053 0,445 0,5467 0,7530 1,4152 0,7530 1,4152 0,7530 1,4152 0,7530 1,4152 0,7530 1,4152 0,7530 1,4152 0,7530 1,4152 0,7530 1,4152 0,7530 1,4152 0,7530 1,4152 0,7530 1,4152 0,7530 1,4152 0,7530 1,4152 0,755 0,7550 1,4152 0,755 0,7570 1,4152 0,755 0,7570 1,4152 0,755 0,7570 1,4152 0,7570 1,4152 0,7570 1,4152 0,7570 1,4152 0,7570 1,4152 0,7770 1,4152 0,5069 5,1778 1,4288 5,00473 4,8615 1,50642 4,8615 1,5084 4,75784,7578 4,7578 4,7578 4,7578 4,7578 4,75784,7578 4,75784,7578 4,7578 4,7578 4,75784,7578 4,7578 4,7578 4,7578 4,75784,7578 4,7578 4,7578 4,7578 4,75784 4,75784 4,75784 4,75784 4,75784 4,75784 4,757844,75784 4,75784	0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 105 150 239 359 539 808 1212 1818 2727 4091 1306 150 239 359 539 808 1212 1818 2727 4091 1359 539 808 1212 1818 2727 4091 1359 539 808 1212 1818 2727 4091 1359 539 808 1212 122 808 1239 1054 157260 235830 353835	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		6,0001 0,0002 0,0003 0,0008 0,0008 0,0018 0,0018 0,0018 0,0027 0,0010 0,0018 0,0001 0,0003 0,0018 0,0003 0,	0 0 0 0 1 1 1 2 3 5 7 1 1 1 2 2 3 5 7 7 1 1 1 1 5 2 4 3 5 5 7 7 1 1 1 1 5 2 4 3 5 5 7 7 1 1 1 1 2 4 35 5 3 80 120 180 2269 404 80 2269 404 80 2269 404 80 2269 404 80 2269 404 80 2269 404 80 2269 404 80 2269 404 80 2269 404 80 2269 404 80 2269 404 80 2269 404 80 2269 404 80 2269 404 80 2269 404 80 2269 404 80 2269 404 80 2269 404 80 2269 1364 220 1364 229 1364 229 1364 229 1364 229 229 1364 229 1364 229 1364 229 229 1364 229 229 1364 229 229 229 229 229 229 229 229 229 22	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0007 0,0011 0,0015 0,0025 0,0038 0,0087 0,0132 0,0132 0,0297 0,0445 0,0297 0,4488 0,4825 0,4825 0,4825 0,4825 0,4825 0,4825 0,4825 0,4825 0,4825 0,4825 0,4825 0,4825 0,4825 0,4825 0,4825 0,4825 0,4825 0,4825 0,4825 0,5388 0,53889 5,7552 5,9966 0,4478 6,5773 6,5772 0,4478 6,5773 6,5772 0,5772 0,5772 0,5772 0,5775 0,77750000000000	0 0 0 0 1 1 1 2 3 4 6 9 14 21 32 47 71 106 239 359 808 1212 1818 2727 4091 1818 2727 4091 1818 2727 4093 1818 2727 4093 1818 2727 4093 1818 2727 4093 1818 2727 4093 1818 2727 4093 1818 2727 4093 1818 2727 4093 1818 2727 4093 1818 2727 4093 1818 2727 4093 1818 2727 4093 1818 2727 4093 1818 2727 4093 1818 2727 4093 1926 1935 104840 157550 235893 104840 157550 235835 25855 258555 258555 258555 258555 258555 258555 258555 258555 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0006 0,0010 0,0015 0,0024 0,0035 0,0082 0,0123 0,00570000000000	0 0 0 1 1 1 2 3 4 6 9 14 21 32 47 71 106 239 359 808 1212 239 359 808 1212 1818 2727 4091 1818 2727 4091 1818 2727 4091 1818 2727 4091 1816 9 204 13306 20709 31064 46593 31064 235820 235825	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0006 0,0015 0,0024 0,0035 0,0024 0,0082 0,0123 0,0123 0,0123 0,0123 0,0123 0,0123 0,0278 0,0253 0,0255	0,1006 0,1010 0,1015 0,1024 0,1036 0,1054 0,1082 0,1082 0,1082 0,1082 0,1082 0,1082 0,1084 0,1082 0,1084 0,1084 0,1084 0,1123 0,1238 0,124 0,1238 0,124 0,1238 0,124 0,1238 0,124 0,1231 0,1238 0,4053 0,445 0,5467 0,7530 1,4152 0,7530 1,4152 0,7530 1,4152 0,7530 1,4152 0,7530 1,4152 0,7530 1,4152 0,7530 1,4152 0,7530 1,4152 0,7530 1,4152 0,7530 1,4152 0,7530 1,4152 0,7530 1,4152 0,7530 1,4152 0,755 0,7550 1,4152 0,755 0,7570 1,4152 0,755 0,7570 1,4152 0,755 0,7570 1,4152 0,7570 1,4152 0,7570 1,4152 0,7570 1,4152 0,7570 1,4152 0,7770 1,4152 0,5069 5,1778 1,4288 5,00473 4,8615 1,50642 4,8615 1,5084 4,75784,7578 4,7578 4,7578 4,7578 4,7578 4,75784,7578 4,75784,7578 4,7578 4,7578 4,75784,7578 4,7578 4,7578 4,7578 4,75784,7578 4,7578 4,7578 4,7578 4,75784 4,75784 4,75784 4,75784 4,75784 4,75784 4,757844,75784 4,75784	0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 105 150 239 359 539 808 1212 1818 2727 4091 1306 150 239 359 539 808 1212 1818 2727 4091 1359 539 808 1212 1818 2727 4091 1359 539 808 1212 1818 2727 4091 1359 539 808 1212 122 808 1239 1054 157260 235830 353835	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		6,0001 0,0002 0,0003 0,0008 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0001 0,0000 0,0018 0,0001 0,000000	0 0 0 0 1 1 1 2 3 5 7 11 1 2 3 5 7 11 1 1 6 24 35 5 3 80 120 180 259 404 606 909 1364 2045 3068 4602 6903 10355 13542 20298 34947 7 85420 78630 117945	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0007 0,0011 0,0015 0,0025 0,0038 0,0087 0,0132 0,0132 0,0297 0,0445 0,0297 0,4488 0,4825 0,4825 0,4825 0,4825 0,4825 0,4825 0,4825 0,4825 0,4825 0,4825 0,4825 0,4825 0,4825 0,4825 0,4825 0,4825 0,4825 0,4825 0,4825 0,5388 0,53889 5,7552 5,9966 0,4478 6,5773 6,5772 0,4478 6,5773 6,5772 0,5772 0,5772 0,5772 0,5775 0,77750000000000	0 0 0 0 1 1 1 2 3 4 6 9 14 21 32 47 71 106 239 359 808 1212 1818 2727 4091 1818 2727 4091 1818 2727 4093 1818 2727 4093 1818 2727 4093 1818 2727 4093 1818 2727 4093 1818 2727 4093 1818 2727 4093 1818 2727 4093 1818 2727 4093 1818 2727 4093 1818 2727 4093 1818 2727 4093 1818 2727 4093 1818 2727 4093 1818 2727 4093 1926 1935 104840 157550 235893 104840 157550 235835 25855 258555 258555 258555 258555 258555 258555 258555 258555 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

#### WB-3-Crook

Discut formal	1	1 Alex - (1-)	Court	L Direct Leneral	A	No. of the	Constr	Disal (mar)	Almon France 1	Alian of the l	Caral	Disulfarmal	him a face a 1	1 Aline - 164	Constr
Displ [mm] -0,0001	time [sec.] 0	time (h) 0	Crook	Displ [mm] -0,0002	time [sec.] 0	time (h) 0	Crook	Displ [mm] -0,0001	time [sec.] 0	time (h) 0	Crook	Displ [mm] -0,0002	time [sec.] 0	time (h) 0	Crook
-0,0001	0	0		-0,0002	0	0		-0,0001	0	0		-0,0002	0	0	
-0,0004	0	ō		-0,0004	0	0 0		-0,0004	ō	ō		-0,0004	ō	ō	
-0,0005	0	0		-0,0007	0	0		-0,0005	0	0		-0,0007	0	0	
-0,0008	1	0		-0,0011	1	0		-0,0008	1	0		-0,0011	1	0	
-0,0013	1	0		-0,0017	1	0		-0,0013	1	0		-0,0017	1	0	
-0,0019	2	0		-0,0025	2	0		-0,0019	2	0		-0,0025	2	0	
-0,0029	2	0		-0,0039	2	0		-0,0029	2	0		-0,0039	2	0	
-0,0044	4	0		-0,0059	4	0		-0,0044	4	0		-0,0058	4	0	
-0,0065	6	0		-0,0088	6	0		-0,0066	6	0		-0,0088	6	0	
-0,0099	8	0		-0,0133	8	0		-0,0099	8	0		-0,0132	8	0	
-0,0149 -0,0223	12 19	0		-0,0199 -0,0298	12 19	0 0		-0,0149 -0,0223	12	0 0		-0,0198 -0,0296	12 19	0	
-0,0225	28	0		-0,0258	28	0		-0,0225	19 28	0		-0,0250	28	0	
-0,0355	42	0		-0,0665	42	0		-0,0355	42	0		-0,0660	42	0	
-0,0742	63	ő		-0,0989	63	ő		-0,0742	63	ő		-0,0982	63	ő	
-0,1102	95	0	E-ref	-0,1465	95	0	1/2 E-L	-0,1101	95	0	1/2 E-R	-0,1453	95	0	1/2 E-T
-0,1628	142	0		-0,2153	142	0		-0,1627	142	0		-0,2136	142	0	
-0,2387	213	0		-0,3135	213	0		-0,2387	213	0		-0,3111	213	0	
-0,3464	319	0		-0,4503	319	0		-0,3463	319	0		-0,4468	319	0	
-0,4950	479	0		-0,6341	479	0		-0,4949	479	0		-0,6293	479	0	
-0,6923	718	0		-0,8695	718	0		-0,6923	718	0		-0,8630	718	0	
-0,9405	1077	0		-1,1508	1077	0		-0,9405	1077	0		-1,1424	1077	0	
-1,2301	1616	0		-1,4566	1616	0		-1,2301	1616	0		-1,4463	1616	0	
-1,5350	2424	1		-1,7502	2424	1		-1,5350	2424	1		-1,7382	2424	1	
-1,8154	3636	1		-1,9902	3636	1		-1,8154	3636	1		-1,9768	3636	1	
-2,0326 -2,1687	5454 8181	2		-2,1507 -2,2351	5454 8181	2 2		-2,0327 -2,1688	5454 8181	2 2		-2,1364 -2,2204	5454 8181	2 2	
-2,2350	12272	3		-2,2531	12272	3		-2,1068	12272	3		-2,2204	12272	3	
-2,2592	18408	5		-2,2087	18408	5		-2,2531	18408	5		-2,2533	18408	5	
-2,2657	27612	8		-2,2806	27612	8		-2,2658	27612	8		-2,2657	27612	8	
-2,2669	41418	12		-2,2809	41418	12		-2,2670	41418	12		-2,2660	41418	12	
-2,2670	62127	17		-2,2809	62127	17		-2,2671	62127	17		-2,2661	62127	17	
-2,2670	93191	26		-2,2809	93191	26		-2,2672	93191	26		-2,2661	93191	26	
-2,2670	139786	39		-2,2809	139786	39		-2,2672	139786	39		-2,2661	139786	39	
-2,2670	209680	58		-2,2809	209680	58		-2,2672	209680	58		-2,2661	209680	58	
-2,2670	314520	87		-2,2809	314520	87		-2,2672	314520	87		-2,2661	314520	87	
-2,2670	518400	144		-2,2809	518400	144		-2,2672	518400	144		-2,2661	518400	144	
Displ [mm]	time [sec.]	time (h)	Crook	Displ [mm]	time [sec.]	time (h)	Crook	Displ [mm]	time [sec.]	time (h)	Crook	Displ [mm]	time [sec.]	time (h)	Crook
-0,0001	0	0	Crook	-0,0001	0	0	Crook	-0,0001	0	0	Crook	-0,0001	0	0	Crook
-0,0001 -0,0002	0 0	0	Crook	-0,0001 -0,0002	0	0 0	Crook	-0,0001 -0,0002	0	0	Crook	-0,0001 -0,0002	0	0	Crook
-0,0001 -0,0002 -0,0004	0 0 0	0 0 0	Crook	-0,0001 -0,0002 -0,0004	0 0 0	0 0 0	Crook	-0,0001 -0,0002 -0,0004	0 0 0	0 0 0	Crook	-0,0001 -0,0002 -0,0004	0 0 0	0 0 0	Crook
-0,0001 -0,0002 -0,0004 -0,0005	0 0 0 0	0 0 0 0	Crook	-0,0001 -0,0002 -0,0004 -0,0005	0 0 0 0	0 0 0 0	Crook	-0,0001 -0,0002 -0,0004 -0,0005	0 0 0 0	0 0 0 0	Crook	-0,0001 -0,0002 -0,0004 -0,0005	0 0 0 0	0 0 0 0	Crook
-0,0001 -0,0002 -0,0004 -0,0005 -0,0008	0 0 0 0 1	0 0 0 0 0	Crook	-0,0001 -0,0002 -0,0004 -0,0005 -0,0008	0 0 0 0 1	0 0 0 0 0	Crook	-0,0001 -0,0002 -0,0004 -0,0005 -0,0008	0 0 0 0 1	0 0 0 0 0	Crook	-0,0001 -0,0002 -0,0004 -0,0005 -0,0008	0 0 0 0 1	0 0 0 0 0	Crook
-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013	0 0 0 1 1	0 0 0 0 0 0	Crook	-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013	0 0 0 0 1 1	0 0 0 0 0 0	Crook	-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013	0 0 0 1 1	0 0 0 0 0 0	Crook	-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013	0 0 0 1 1	0 0 0 0 0 0	Crook
-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019	0 0 0 1 1 2	0 0 0 0 0 0 0	Crook	-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019	0 0 0 1 1 2	0 0 0 0 0 0 0	Crook	-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019	0 0 0 1 1 2	0 0 0 0 0 0 0	Crook	-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019	0 0 0 1 1 2	0 0 0 0 0 0 0 0	Crook
-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029	0 0 0 1 1 2 2	0 0 0 0 0 0 0 0	Crook	-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029	0 0 0 1 1 2 2	0 0 0 0 0 0 0 0 0	Crook	-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029	0 0 0 1 1 2 2	0 0 0 0 0 0 0 0 0	Crook	-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029	0 0 0 1 1 2 2	0 0 0 0 0 0 0 0	Crook
-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019	0 0 0 1 1 2	0 0 0 0 0 0 0	Crook	-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019	0 0 0 1 1 2	0 0 0 0 0 0 0	Crook	-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019	0 0 0 1 1 2	0 0 0 0 0 0 0	Crook	-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019	0 0 0 1 1 2	0 0 0 0 0 0 0 0	Crook
-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029 -0,00044	0 0 0 1 1 2 2 4	0 0 0 0 0 0 0 0 0 0 0 0	Crook	-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029 -0,0044	0 0 0 1 1 2 2 4	0 0 0 0 0 0 0 0 0 0	Crook	-0,0001 -0,0002 -0,0004 -0,0008 -0,0013 -0,0019 -0,0029 -0,0044	0 0 0 1 1 2 2 4	0 0 0 0 0 0 0 0 0 0 0	Crook	-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029 -0,0044	0 0 0 1 1 2 2 4	0 0 0 0 0 0 0 0 0 0	Crook
-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029 -0,0029 -0,0044 -0,0065	0 0 0 1 1 2 2 4 5	0 0 0 0 0 0 0 0 0 0 0 0 0	Crook	-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029 -0,0044 -0,0065	0 0 0 1 1 2 2 4 5	0 0 0 0 0 0 0 0 0 0 0	Crook	-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029 -0,0044 -0,0065	0 0 0 1 1 2 2 4 6	0 0 0 0 0 0 0 0 0 0 0 0	Crook	-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029 -0,0044 -0,0065	0 0 0 1 1 2 2 4 6	0 0 0 0 0 0 0 0 0 0 0 0	Crook
-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029 -0,0044 -0,0066 -0,0099 -0,0149 -0,0223	0 0 0 1 1 2 2 4 6 8 12 19	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Crook	-0,0001 -0,0002 -0,0004 -0,0005 -0,0003 -0,0013 -0,0019 -0,0029 -0,0044 -0,0066 -0,0099 -0,0148 -0,0222	0 0 0 1 1 2 2 4 5 8 12 19	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Crook	-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029 -0,0044 -0,0065 -0,0099 -0,0149 -0,0223	0 0 0 1 1 2 2 4 6 8	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Crook	-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029 -0,0044 -0,0066 -0,0099 -0,0149 -0,0223	0 0 0 1 1 2 2 4 6 8 12 19		Crook
-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029 -0,0044 -0,0056 -0,0099 -0,0149 -0,0223 -0,0333	0 0 0 1 1 2 4 6 8 12 19 28		Crook	-0,0001 -0,0002 -0,0004 -0,0005 -0,0003 -0,0019 -0,0019 -0,0029 -0,0044 -0,00056 -0,0099 -0,0148 -0,0222 -0,0332	0 0 0 1 1 2 4 6 8 12 19 28	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Crook	-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029 -0,0044 -0,0066 -0,0099 -0,0149 -0,0223 -0,0333	0 0 0 1 1 2 4 6 8 12 19 28		Crook	-0,0001 -0,0002 -0,0004 -0,0005 -0,0003 -0,0019 -0,0019 -0,0029 -0,0044 -0,00056 -0,0099 -0,0149 -0,0223 -0,0333	0 0 0 1 1 2 2 4 5 8 12 19 28		Crook
-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029 -0,0044 -0,0056 -0,0099 -0,0149 -0,0023 -0,00333 -0,0498	0 0 0 1 1 2 2 4 6 8 12 19 28 42		Crook	-0,0001 -0,0002 -0,0004 -0,0008 -0,0003 -0,0013 -0,0019 -0,0029 -0,0044 -0,0065 -0,0099 -0,0148 -0,0222 -0,0332 -0,0495	0 0 0 1 1 2 2 4 6 8 12 19 28 42	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Crook	-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019 -0,0019 -0,0044 -0,0066 -0,0099 -0,0149 -0,0149 -0,0223 -0,0333 -0,0498	0 0 0 1 1 2 2 4 6 8 12 19 28 42	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Crook	-0,0001 -0,0002 -0,0004 -0,0008 -0,0003 -0,0003 -0,0003 -0,0005 -0,00044 -0,0065 -0,0099 -0,0149 -0,0223 -0,0333 -0,0498	0 0 0 1 1 2 2 4 5 8 12 19 28 42	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Crook
-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0019 -0,0019 -0,0029 -0,0044 -0,0056 -0,0099 -0,0149 -0,0223 -0,0333 -0,0498 -0,0742	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0019 -0,0019 -0,0029 -0,0044 -0,0029 -0,0148 -0,0222 -0,0332 -0,0496 -0,0740	0 0 0 1 1 2 2 4 5 8 12 19 28 42 63	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0004 -0,0005 -0,0003 -0,0013 -0,0019 -0,0029 -0,0045 -0,0055 -0,0099 -0,0149 -0,0223 -0,0149 -0,0233 -0,0498 -0,0742	0 0 0 1 1 2 2 4 5 8 12 19 28 42 63	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0004 -0,0008 -0,0008 -0,0019 -0,0019 -0,0029 -0,0044 -0,0005 -0,0099 -0,0149 -0,0223 -0,0333 -0,0498 -0,0742	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029 -0,0044 -0,0056 -0,0099 -0,0149 -0,0223 -0,0333 -0,0498 -0,0742 -0,1102	0 0 0 1 2 2 4 6 8 12 19 28 42 63 95	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	G-ref	-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029 -0,0029 -0,0029 -0,0044 -0,0056 -0,0099 -0,01048 -0,0222 -0,0332 -0,0495 -0,07040 -0,1098	0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Crook	-0,0001 -0,0002 -0,0005 -0,0008 -0,0013 -0,0019 -0,0019 -0,0029 -0,0029 -0,0044 -0,0056 -0,0099 -0,0149 -0,0223 -0,0333 -0,0498 -0,0742 -0,07142	0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95		Crook	-0,0001 -0,0002 -0,0005 -0,0005 -0,0003 -0,0013 -0,0019 -0,0029 -0,0029 -0,0029 -0,0029 -0,0033 -0,0133 -0,0132 -0,0132 -0,0148 -0,0102	0 0 0 1 1 2 2 4 6 8 8 12 19 28 42 19 28 42 55	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Crook
-0,0001 -0,0002 -0,0004 -0,0005 -0,0005 -0,0013 -0,0013 -0,0019 -0,0029 -0,0044 -0,0066 -0,0099 -0,0149 -0,01223 -0,0133 -0,0149 -0,0742 -0,0742 -0,1102	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019 -0,0005 -0,0009 -0,0005 -0,0009 -0,0148 -0,0222 -0,0449 -0,0322 -0,0496 -0,0740 -0,070	0 0 0 1 2 2 4 6 8 12 19 28 42 63 95 142	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0004 -0,0008 -0,0013 -0,0019 -0,0029 -0,0029 -0,0044 -0,0029 -0,0044 -0,0055 -0,0049 -0,0149 -0,0149 -0,0742 -0,102 -0,1028	0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0005 -0,0008 -0,0003 -0,0013 -0,0019 -0,0029 -0,0044 -0,0029 -0,0044 -0,0029 -0,0149 -0,0123 -0,0498 -0,0742 -0,01628	0 0 0 1 1 2 4 6 8 12 19 28 42 19 28 42 53 95 142	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029 -0,0044 -0,0055 -0,0099 -0,0149 -0,0742 -0,0742 -0,0742 -0,0742 -0,1102 -0,1528 -0,2387	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029 -0,0044 -0,0059 -0,0044 -0,0059 -0,0044 -0,0059 -0,0148 -0,0222 -0,0446 -0,0740 -0,1628 -0,1628 -0,2380	0 0 0 1 2 2 4 6 8 12 19 28 42 63 95 142 213	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0005 -0,0008 -0,0013 -0,0019 -0,0019 -0,0029 -0,0044 -0,0059 -0,0049 -0,0223 -0,0149 -0,0742 -0,1028 -0,1028 -0,0742 -0,1028 -0,2387	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213			-0,0001 -0,0002 -0,0005 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029 -0,0044 -0,0055 -0,0049 -0,0059 -0,0149 -0,0223 -0,0149 -0,0448 -0,0742 -0,1628 -0,1628 -0,2387	0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0019 -0,0029 -0,0044 -0,0056 -0,00099 -0,0149 -0,0223 -0,0333 -0,0448 -0,0742 -0,1102 -0,1528 -0,2387 -0,3454	0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0004 -0,0005 -0,0003 -0,0019 -0,0019 -0,0019 -0,0029 -0,0044 -0,0065 -0,0099 -0,0148 -0,0222 -0,0332 -0,0345 -0,1098 -0,1623 -0,2380 -0,3453	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0004 -0,0008 -0,0013 -0,0019 -0,0019 -0,0029 -0,0044 -0,0056 -0,0099 -0,0149 -0,0223 -0,0333 -0,0742 -0,1102 -0,1528 -0,2387 -0,3454	0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319			-0,0001 -0,0002 -0,0004 -0,0008 -0,0013 -0,0019 -0,0019 -0,0029 -0,0029 -0,0044 -0,0065 -0,0029 -0,0049 -0,0233 -0,0149 -0,0233 -0,0149 -0,0233 -0,0448 -0,0742 -0,1102 -0,1528 -0,2387 -0,2387 -0,3464	0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 63 95 142 213 319	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029 -0,0044 -0,0066 -0,0099 -0,0149 -0,0149 -0,0223 -0,0149 -0,0742 -0,1102 -0,1528 -0,2387 -0,3454 -0,24850	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0009 -0,0005 -0,0009 -0,0005 -0,0009 -0,0148 -0,0029 -0,0148 -0,0029 -0,0148 -0,0029 -0,0148 -0,0029 -0,0148 -0,0029 -0,0148 -0,0029 -0,0044 -0,0029 -0,0044 -0,0002 -0,0004 -0,0005 -0,0008 -0,0009 -0,0009 -0,0009 -0,0009 -0,0009 -0,0009 -0,0009 -0,0009 -0,0009 -0,0009 -0,0009 -0,0009 -0,0032 -0,0032 -0,0038 -0,0039 -0,0038 -0,0039 -0,0038 -0,0039 -0,0038 -0,0039 -0,0038 -0,0039 -0,0038 -0,0039 -0,0038 -0,0039 -0,0038 -0,0039 -0,0048 -0,0032 -0,0048 -0,0032 -0,0048 -0,0032 -0,0048 -0,0032 -0,0048 -0,0059 -0,0048 -0,0059 -0,0048 -0,0059 -0,0048 -0,0059 -0,0048 -0,0059 -0,0048 -0,0059 -0,0058 -0,0059 -0,0058 -0,0059 -0,0058 -0,0059 -0,0058 -0,0059 -0,0058 -0,0059 -0,0058 -0,000	0 0 0 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0005 -0,0008 -0,0008 -0,0019 -0,0029 -0,0044 -0,0029 -0,0046 -0,0099 -0,0149 -0,0223 -0,0449 -0,0498 -0,0742 -0,1022 -0,1628 -0,2887 -0,2887 -0,2887 -0,2887	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213			-0,0001 -0,0002 -0,0005 -0,0008 -0,0008 -0,0013 -0,0009 -0,0029 -0,0044 -0,0029 -0,0049 -0,0029 -0,0149 -0,0029 -0,0149 -0,0029 -0,0149 -0,0029 -0,0149 -0,0029 -0,0149 -0,0029 -0,0149 -0,0029 -0,0149 -0,0029 -0,004 -0,0002 -0,0008 -0,0009 -0,0009 -0,0009 -0,0009 -0,0009 -0,0009 -0,0009 -0,0009 -0,0009 -0,0009 -0,0009 -0,0009 -0,0009 -0,0033 -0,0033 -0,0033 -0,0039 -0,0039 -0,0039 -0,0039 -0,0039 -0,0039 -0,0044 -0,0033 -0,0049 -0,0049 -0,0049 -0,0049 -0,0149 -0,0149 -0,0149 -0,0149 -0,0149 -0,0168 -0,0149 -0,0168 -0,0149 -0,0168 -0,0169 -0,0149 -0,0168 -0,0169	0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0019 -0,0029 -0,0044 -0,0056 -0,00099 -0,0149 -0,0223 -0,0333 -0,0448 -0,0742 -0,1102 -0,1528 -0,2387 -0,3454	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0004 -0,0005 -0,0003 -0,0019 -0,0019 -0,0019 -0,0029 -0,0044 -0,0065 -0,0099 -0,0148 -0,0222 -0,0332 -0,0345 -0,1098 -0,1623 -0,2380 -0,3453	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0004 -0,0008 -0,0013 -0,0019 -0,0019 -0,0029 -0,0044 -0,0056 -0,0099 -0,0149 -0,0223 -0,0333 -0,0742 -0,1102 -0,1528 -0,2387 -0,3454	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479			-0,0001 -0,0002 -0,0004 -0,0008 -0,0013 -0,0019 -0,0019 -0,0029 -0,0029 -0,0044 -0,0065 -0,0029 -0,0049 -0,0233 -0,0149 -0,0233 -0,0149 -0,0233 -0,0448 -0,0742 -0,1102 -0,1528 -0,2387 -0,2387 -0,3464	0 0 0 1 2 2 4 5 8 12 19 28 42 63 8 12 19 28 42 5 142 213 319 479	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
-0,0001 -0,0002 -0,0004 -0,0005 -0,0005 -0,0013 -0,0019 -0,0029 -0,0044 -0,0066 -0,0099 -0,0149 -0,0123 -0,0149 -0,0123 -0,01498 -0,0742 -0,1102 -0,1528 -0,2387 -0,3454 -0,4950 -0,5923	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0004 -0,0005 -0,0003 -0,0013 -0,0019 -0,0029 -0,0044 -0,0029 -0,0044 -0,0055 -0,0044 -0,0055 -0,0044 -0,0055 -0,0044 -0,0055 -0,0044 -0,0055 -0,0044 -0,0055 -0,004 -0,0005 -0,0014 -0,0005 -0,0014 -0,0005 -0,0014 -0,0015 -0,0015 -0,0014 -0,0015 -0,0014 -0,0015 -0,0014 -0,0015 -0,0014 -0,0015 -0,0014 -0,0015 -0,0148 -0,0222 -0,0445 -0,0145 -0,0125 -0,0145 -0,015 -0	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0003 -0,0008 -0,0013 -0,0019 -0,0019 -0,0029 -0,0044 -0,0059 -0,0049 -0,0233 -0,0149 -0,0233 -0,0498 -0,0742 -0,1628 -0,2387 -0,2387 -0,2387 -0,2387 -0,2387	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718			-0,0001 -0,0002 -0,0005 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029 -0,0044 -0,0055 -0,0049 -0,0059 -0,0149 -0,0233 -0,0149 -0,0742 -0,1528 -0,2387 -0,3454 -0,2387 -0,3454 -0,4950	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 42 63 95 142 213 319 479 778	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0019 -0,0019 -0,0029 -0,0044 -0,0029 -0,0044 -0,0029 -0,0149 -0,0223 -0,0333 -0,0498 -0,0742 -0,1102 -0,1102 -0,1528 -0,2387 -0,3464 -0,4950 -0,5923 -0,3405	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077			-0,0001 -0,0002 -0,0004 -0,0008 -0,0003 -0,0013 -0,0019 -0,0029 -0,0044 -0,0029 -0,0044 -0,0029 -0,0044 -0,0029 -0,0148 -0,0222 -0,0332 -0,0446 -0,0740 -0,1623 -0,2380 -0,2380 -0,2380 -0,59380	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0004 -0,0008 -0,0013 -0,0019 -0,0019 -0,0029 -0,0044 -0,0059 -0,0049 -0,0029 -0,0149 -0,0223 -0,0149 -0,0742 -0,1028 -0,10742 -0,1028 -0,2387 -0,3464 -0,4950 -0,9950 -0,99405	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077			-0,0001 -0,0002 -0,0003 -0,0003 -0,0003 -0,0013 -0,0019 -0,0029 -0,0044 -0,0059 -0,0049 -0,0029 -0,0049 -0,0023 -0,0149 -0,0223 -0,0149 -0,0742 -0,0742 -0,1162 -0,2387 -0,2387 -0,3464 -0,4950 -0,9405	0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718 1077	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029 -0,0044 -0,0029 -0,0044 -0,0029 -0,0149 -0,0223 -0,0149 -0,0742 -0,10223 -0,0498 -0,0742 -0,1102 -0,1528 -0,2387 -0,3454 -0,3455 -0,3454 -0,523 -0,3456 -1,2301 -1,53550 -1,8154	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616			-0,0001 -0,0002 -0,0004 -0,0005 -0,0005 -0,0009 -0,0019 -0,0029 -0,0044 -0,0029 -0,0049 -0,0029 -0,0044 -0,0029 -0,0044 -0,0022 -0,0044 -0,0022 -0,0044 -0,0022 -0,0044 -0,0022 -0,0044 -0,0023 -0,004 -0,0029 -0,004 -0,0005 -0,0014 -0,0005 -0,0014 -0,0029 -0,0044 -0,005 -0,0044 -0,005 -0,0044 -0,005 -0,0044 -0,005 -0,0044 -0,005 -0,0044 -0,005 -0,0044 -0,005 -0,0044 -0,005 -0,0044 -0,005 -0,0044 -0,005 -0,0044 -0,005 -0,0044 -0,005 -0,0044 -0,005 -0,0049 -0,0049 -0,0049 -0,0049 -0,022 -0,0445 -0,0238 -0,0238 -0,0238 -0,0238 -0,0238 -0,025 -0,038	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1615	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0003 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029 -0,0045 -0,0029 -0,0045 -0,0029 -0,0149 -0,0023 -0,0149 -0,0223 -0,0333 -0,0498 -0,0742 -0,11628 -0,2187 -0,2187 -0,2464 -0,2487 -0,24777 -0,24777 -0,24777 -0,247777 -0,24777777777777777777777777777777777777	0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718 1077 1615			-0,0001 -0,0002 -0,0003 -0,0008 -0,0003 -0,0003 -0,0009 -0,0029 -0,0029 -0,0029 -0,0029 -0,0029 -0,0029 -0,0029 -0,0149 -0,0029 -0,0149 -0,0029 -0,0149 -0,0029 -0,0149 -0,0029 -0,0149 -0,0029 -0,0149 -0,0029 -0,0149 -0,0029 -0,0029 -0,0029 -0,0004 -0,0002 -0,0004 -0,0005 -0,0004 -0,0005 -0,0004 -0,0005 -0,0004 -0,0009 -0,0004 -0,0009 -0,0019 -0,0033 -0,0033 -0,0033 -0,0039 -0,0149 -0,0129 -0,0149 -0,0129 -0,0149 -0,0129 -0,0149 -0,0129 -0,0149 -0,0129 -0,0129 -0,0149 -0,0129 -0,0149 -0,0128 -0,0149 -0,0128 -0,0149 -0,0128 -0,0149 -0,0128 -0,0149 -0,0128 -0,0128 -0,0149 -0,0128 -0,0149 -0,0128 -0,0149 -0,0128 -0,0149 -0,028 -0,0149	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 19 28 42 53 142 213 319 479 718 1077 1615	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0003 -0,0019 -0,0029 -0,0044 -0,0029 -0,0044 -0,0056 -0,0099 -0,0149 -0,0223 -0,0333 -0,0449 -0,0742 -0,1102 -0,1528 -0,3454 -0,2387 -0,3454 -0,4950 -0,5923 -0,9406 -1,2301 -1,5350 -1,8154 -2,0325	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 10777 1616 2424 3635 5454			-0,0001 -0,0002 -0,0004 -0,0005 -0,0003 -0,0013 -0,0019 -0,0029 -0,0029 -0,0044 -0,0029 -0,0044 -0,0029 -0,0044 -0,0029 -0,0044 -0,0029 -0,0148 -0,0222 -0,0332 -0,0345 -0,0740 -0,1098 -0,1623 -0,2380 -0,3453 -0,935 -0,9380 -1,2268 -1,5310 -1,8109 -1,8109 -2,0277	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0004 -0,0008 -0,0013 -0,0019 -0,0029 -0,0019 -0,0029 -0,0044 -0,0059 -0,0049 -0,0223 -0,0149 -0,0223 -0,0149 -0,0223 -0,0149 -0,0223 -0,0448 -0,0742 -0,1102 -0,102 -0,102 -0,3454 -0,950 -0,9406 -1,2301 -1,3554 -1,255	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1615 2424 3635 5454	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0004 -0,0005 -0,0003 -0,0013 -0,0019 -0,0029 -0,0029 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0223 -0,0149 -0,0233 -0,0149 -0,0233 -0,0454 -0,2387 -0,3464 -0,2387 -0,3464 -0,2387 -0,3464 -1,2301 -1,2350 -1,2351 -1,2355	0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 63 95 142 213 319 479 718 1077 1615 2424 355 5454	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029 -0,0044 -0,0066 -0,0099 -0,0149 -0,0023 -0,0149 -0,0223 -0,0149 -0,0742 -0,1102 -0,1528 -0,2387 -0,3464 -0,4950 -0,5923 -0,5923 -0,3464 -0,4950 -0,5923 -1,5350 -1,2301 -1,5350 -1,2301 -2,1687	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1615 2424 3636 5454 8181			-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019 -0,0005 -0,0009 -0,0005 -0,0009 -0,0006 -0,0009 -0,01048 -0,0229 -0,01048 -0,0232 -0,0496 -0,0740 -0,01623 -0,2380 -0,3453 -0,4955 -0,5903 -0,5903 -0,5903 -0,5903 -0,5903 -0,5903 -1,2286 -1,2310 -1,2310 -1,2310 -1,2310 -2,21635	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0003 -0,0008 -0,0003 -0,0019 -0,0029 -0,0044 -0,0029 -0,0044 -0,0029 -0,0049 -0,0029 -0,0149 -0,0233 -0,0498 -0,0742 -0,102 -0,102 -0,102 -0,1028 -0,2387 -0,3450 -0,523 -0,3450 -0,4950 -0,5923 -0,3450 -0,5923 -0,3450 -0,5923 -0,3450 -0,5923 -0,3450 -0,5923 -0,3550 -1,2301 -1,2350 -1,2550 -1,2550 -1,2550 -1,2550 -1,2550 -1,2550 -1,2550 -1,2550 -1,2550 -1	0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718 1077 1615 2424 3636 5454 8181	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0003 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029 -0,0044 -0,0029 -0,0049 -0,0029 -0,0149 -0,0023 -0,0149 -0,0123 -0,0498 -0,0742 -0,11628 -0,2387 -0,3454 -0,3454 -0,4950 -0,4950 -0,4950 -0,4950 -0,4950 -0,4950 -0,4950 -0,4950 -0,4950 -0,4950 -0,4950 -0,4950 -0,4950 -0,4950 -0,4950 -0,4950 -0,523 -0,4950 -0,523 -0,4950 -0,523 -0,4950 -0,523 -0,4950 -0,523 -0,4950 -0,523 -0,4950 -0,523 -0,4950 -0,523 -0,4950 -0,523 -0,4950 -0,523 -0,4950 -0,523 -0,4950 -0,523 -0,4950 -0,523 -0,4950 -0,523 -0,4950 -0,523 -0,4950 -0,523 -0,4950 -0,523 -0,525 -0,555 -0,	0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 8 12 19 28 42 213 319 25 142 213 319 718 1075 2424 3635 5424 3635 5454 8181	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029 -0,0044 -0,0066 -0,0099 -0,0149 -0,0123 -0,0149 -0,0123 -0,0149 -0,0742 -0,1102 -0,1528 -0,2387 -0,3454 -0,4950 -0,5923 -0,3454 -0,4950 -0,5923 -0,3454 -2,2350	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0004 -0,0005 -0,0005 -0,0003 -0,0019 -0,0029 -0,0044 -0,0029 -0,0049 -0,0029 -0,0049 -0,0039 -0,0148 -0,0222 -0,0445 -0,0740 -0,0740 -0,1623 -0,2380 -0,2380 -0,3453 -0,2380 -0,3453 -0,5903 -0,3930 -1,2568 -1,5310 -1,8109 -2,0277 -2,1635 -2,2297	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0003 -0,0005 -0,0003 -0,0013 -0,0019 -0,0029 -0,0044 -0,0059 -0,0049 -0,0233 -0,0149 -0,0238 -0,0149 -0,0742 -0,1628 -0,0742 -0,1628 -0,2387 -0,3454 -0,4550 -0,5923 -0,3464 -0,5923 -0,3464 -0,5923 -0,3464 -0,5923 -0,3464 -1,2350 -1,2350	0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718 1077 1615 2424 3636 5454 8181 12272	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0005 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0149 -0,0233 -0,0149 -0,0742 -0,1528 -0,2387 -0,3464 -0,5923 -0,3464 -0,5923 -0,3464 -1,2301 -1,5350 -1,8154 -2,0325 -2,2150	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0019 -0,0019 -0,0029 -0,0044 -0,0029 -0,0044 -0,0029 -0,0149 -0,0223 -0,0333 -0,0498 -0,0742 -0,1102 -0,1528 -0,2387 -0,3454 -1,2355 -0,2365 -1,2355 -2,2357 -2,2357 -2,2357 -2,2357 -2,2357 -2,2552 -2,2552	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272 18408	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0004 -0,0005 -0,0005 -0,0003 -0,0013 -0,0019 -0,0029 -0,0019 -0,0029 -0,0044 -0,0029 -0,0044 -0,0029 -0,0045 -0,0045 -0,0045 -0,0045 -0,0045 -0,0045 -0,0045 -0,0045 -0,0045 -0,0045 -0,0045 -0,0045 -0,0045 -0,0045 -0,0045 -0,0045 -0,0045 -0,0045 -0,0045 -0,0005 -0,0013 -0,0013 -0,0019 -0,0035 -0,0035 -0,0035 -0,0355 -0,0355 -0,0355 -0,3555 -0,355	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272 18408	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0004 -0,0005 -0,0013 -0,0019 -0,0019 -0,0029 -0,0044 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,01628 -0,01628 -0,0742 -0,1628 -0,0742 -0,1628 -0,0742 -0,1628 -0,2387 -0,3464 -0,4950 -0,5923 -0,9406 -1,2301 -1,2301 -1,23154 -2,2350 -2,2592	0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272 18408	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0004 -0,0005 -0,0005 -0,0003 -0,0013 -0,0019 -0,0029 -0,0044 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0149 -0,0223 -0,0149 -0,0223 -0,0449 -0,0223 -0,0449 -0,02387 -0,1628 -0,2387 -0,2387 -0,3464 -0,5232 -0,5405 -1,2301 -1,5154 -2,2552	0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718 1077 1615 2424 3636 5454 8181 12272 18408	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029 -0,0044 -0,0066 -0,0099 -0,0149 -0,0023 -0,0498 -0,0742 -0,102 -0,1628 -0,2387 -0,3454 -0,4950 -0,6923 -0,9406 -1,2301 -1,5350 -0,5923 -1,8154 -2,2350 -2,2557	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272 18408 27612	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0009 -0,0029 -0,0046 -0,0029 -0,0046 -0,0029 -0,0046 -0,0029 -0,0148 -0,0029 -0,0148 -0,0029 -0,0148 -0,0029 -0,0148 -0,0029 -0,0148 -0,0029 -0,0044 -0,0029 -0,0043 -0,0029 -0,0044 -0,0029 -0,0043 -0,0029 -0,0043 -0,0029 -0,0043 -0,0029 -0,0043 -0,0029 -0,0043 -0,0029 -0,0043 -0,0029 -0,0043 -0,0029 -0,0043 -0,0029 -0,0043 -0,0029 -0,0045 -0,0029 -0,0045 -0,0029 -0,0045 -0,0029 -0,0045 -0,0029 -0,0045 -0,0029 -0,0045 -0,0029 -0,0029 -0,0029 -0,0029 -0,0029 -0,0029 -0,0025 -0,0029 -0,0029 -0,0029 -0,0029 -0,0029 -0,0029 -0,0029 -0,0020 -0,0000 -0,000	0 0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272 18408 27612	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0003 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029 -0,0044 -0,0029 -0,0044 -0,0029 -0,0049 -0,0029 -0,0102 -0,0029 -0,0102 -0,0029 -0,0102 -0,0223 -0,0498 -0,0742 -0,1028 -0,0498 -0,0742 -0,1028 -0,0498 -0,0742 -0,1028 -0,0498 -0,0742 -0,1028 -0,0498 -0,0742 -0,1028 -0,0498 -0,0742 -0,1028 -0,0029 -0,0044 -0,0029 -0,0004 -0,0005 -0,0009 -0,0004 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,000	0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272 18408 27612	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0003 -0,0008 -0,0008 -0,0013 -0,0009 -0,0029 -0,0044 -0,0029 -0,0029 -0,0046 -0,0029 -0,0149 -0,0029 -0,0149 -0,0029 -0,0149 -0,0029 -0,0149 -0,0029 -0,0149 -0,0029 -0,0149 -0,0029 -0,0149 -0,0029 -0,0149 -0,0029 -0,0029 -0,0044 -0,0029 -0,0029 -0,0044 -0,0029 -0,0044 -0,0029 -0,0044 -0,0029 -0,0044 -0,0029 -0,0044 -0,0029 -0,0044 -0,0029 -0,0029 -0,0044 -0,0029 -0,0044 -0,0029 -0,0044 -0,0029 -0,0044 -0,0029 -0,0044 -0,0029 -0,0044 -0,0029 -0,0044 -0,0029 -0,0044 -0,0029 -0,0044 -0,0029 -0,0044 -0,0029 -0,0044 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0044 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0149 -0,0122 -0,1162 -0,2167 -0,225 -0,2256 -2,22555	0 0 0 1 1 2 2 4 5 8 12 19 28 42 5 8 42 28 42 5 3 19 28 42 28 42 5 142 213 319 479 718 1077 1616 2424 3636 5545 8181 122728 8181	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
-0,0001 -0,0002 -0,0004 -0,0005 -0,0005 -0,0005 -0,0013 -0,0019 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0149 -0,0023 -0,0033 -0,0498 -0,0742 -0,1102 -0,1528 -0,2387 -0,3454 -0,2387 -0,3454 -0,34550 -1,5350 -1,8154 -2,2552 -2,2557 -2,2557 -2,2557 -2,2557 -2,2557	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272 18408 27612 41418	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0005 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029 -0,0044 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0049 -0,0049 -0,0049 -0,0049 -0,0049 -0,0049 -0,0049 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0009 -0,0029 -0,0049 -0,0029 -0,0004 -0,0009 -0,0044 -0,0022 -0,0049 -0,0045 -0,0039 -0,0049 -0,0048 -0,0039 -0,0049 -0,0048 -0,0039 -0,0048 -0,0039 -0,0049 -0,0048 -0,0039 -0,0049 -0,0148 -0,0222 -0,0445 -0,01623 -0,01623 -0,0380 -0,3800 -1,2830 -0,3800 -1,2830 -1,2830 -2,2830 -2,2830 -2,2830 -2,2830 -2,2830 -2,2830 -2,2830 -2,2830 -2,2830 -2,2830 -2,2830 -2,2830 -2,2830 -2,2830 -2,2227 -2,2259 -2,2259	0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272 18408 27612 41418	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029 -0,0044 -0,0029 -0,0044 -0,0029 -0,0049 -0,0023 -0,0049 -0,0049 -0,0049 -0,0049 -0,0049 -0,0049 -0,0049 -0,0049 -0,0049 -0,0049 -0,0049 -0,0049 -0,0049 -0,0049 -0,0049 -0,0049 -0,0049 -0,0049 -0,0049 -0,0009 -0,0049 -0,0009 -0,0004 -0,0009 -0,0004 -0,0009 -0,0004 -0,0009 -0,0004 -0,0009 -0,0009 -0,0004 -0,0009 -0,0004 -0,0009 -0,0009 -0,0004 -0,0009 -0,0004 -0,0009 -0,0009 -0,0004 -0,0009 -0,0009 -0,0004 -0,0009 -0,0009 -0,0009 -0,0009 -0,0009 -0,0009 -0,0009 -0,0009 -0,0009 -0,0009 -0,0009 -0,0009 -0,0009 -0,0009 -0,0009 -0,0009 -0,0009 -0,0009 -0,0009 -0,0044 -0,0009 -0,0049 -0,0019 -0,0049 -0,0019 -0,0049 -0,003 -0,0019 -0,0049 -0,0049 -0,0049 -0,0049 -0,0049 -0,0049 -0,0049 -0,0049 -0,0049 -0,0049 -0,0049 -0,0049 -0,0049 -0,0049 -0,0049 -0,0049 -0,0049 -0,0102 -0,0105 -0,0109 -0,0102 -0,0102 -0,0102 -0,0102 -0,0102 -0,0102 -0,0102 -0,0102 -0,0102 -0,023 -0,0493 -0,0387 -0,337 -0,3464 -0,3255 -1,3550 -1,3550 -1,3550 -1,3550 -2,2555 -	0 0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1615 2424 3635 5454 8181 12272 18408 27512 41418	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0005 -0,0005 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0023 -0,0049 -0,0149 -0,0742 -0,1023 -0,0498 -0,0742 -0,1028 -0,0742 -0,1028 -0,2887 -0,2885 -0,2856 -0,2855 -0,285	0 0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1615 2424 3636 5454 8181 12272 18408 8181 12272	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029 -0,0044 -0,0029 -0,0044 -0,0029 -0,0049 -0,0029 -0,0149 -0,0742 -0,1023 -0,0498 -0,0742 -0,1102 -0,1528 -0,2387 -0,3454 -0,9406 -1,2301 -1,5350 -1,8154 -2,0326 -2,1687 -2,2557 -2,2659 -2,2659 -2,2670	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272 18408 27612 18408	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0004 -0,0005 -0,0005 -0,0008 -0,0019 -0,0029 -0,0029 -0,0029 -0,0029 -0,0029 -0,0029 -0,0029 -0,0029 -0,0029 -0,0044 -0,0022 -0,0045 -0,0740 -0,1623 -0,2380 -2,20777 -2,2580 -2,26977 -2,2580 -2,26977 -2,2580 -2,	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272 18408 27612 18408 27612 18408	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0003 -0,0005 -0,0003 -0,0013 -0,0013 -0,0019 -0,0029 -0,0044 -0,0059 -0,0049 -0,0049 -0,0162 -0,0162 -0,0162 -0,0498 -0,0742 -0,1102 -0,0742 -0,1102 -0,0387 -0,2387 -0,2387 -0,2464 -0,2387 -0,2464 -0,2387 -0,2464 -0,2387 -0,2464 -0,2387 -0,2464 -2,2550 -2,2556 -2,2550 -2,2570	0 0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272 18408 27612 18408 27612 18408	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0004 -0,0005 -0,0005 -0,0005 -0,0009 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0149 -0,0233 -0,0449 -0,0742 -0,1528 -0,2387 -0,256 -0,256 -0,2555 -0,2555 -0,2	0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3635 5454 8181 12272 18408 27612 24418 62127	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
-0,0001 -0,0002 -0,0004 -0,0005 -0,0003 -0,0013 -0,0019 -0,0029 -0,0044 -0,0066 -0,0099 -0,0149 -0,0238 -0,0498 -0,0742 -0,1102 -0,1528 -0,2387 -0,3454 -0,4950 -0,6523 -0,3454 -0,4950 -0,6523 -0,3454 -0,4950 -0,5523 -1,8154 -2,2350 -2,2557 -2,2657 -2,2670 -2,2670	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272 18408 27612 41418 62127 93191	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0003 -0,0005 -0,0008 -0,0003 -0,0009 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0108 -0,0029 -0,0108 -0,0029 -0,0108 -0,0029 -0,0108 -0,0029 -0,0108 -0,0029 -0,0148 -0,0029 -0,0032 -0,0032 -0,0033 -0,0033 -0,0033 -0,0033 -0,0033 -0,0033 -0,0033 -0,0033 -0,0033 -0,0033 -0,0033 -0,0039 -0,0044 -0,0009 -0,0032 -0,0044 -0,0032 -0,0033 -0,0039 -0,0033 -0,0039 -0,0039 -0,0039 -0,0039 -0,0039 -0,0039 -0,0039 -0,0039 -0,0039 -0,0039 -0,0039 -0,0039 -0,0033 -0,0039 -0,0033 -0,0039 -0,0033 -0,0033 -0,0033 -0,0033 -0,0033 -0,0033 -0,0033 -0,0033 -0,0033 -0,0033 -0,0033 -0,0033 -0,0033 -0,0033 -0,0033 -0,0033 -0,0033 -0,0033 -0,0033 -0,0035 -0,0033 -0,0036 -0,0338 -0,0338 -0,0338 -0,0338 -0,2380 -0,2380 -2,2583 -2,2563 -2,2563 -2,2563 -2,2565 -2,2565 -2,2565 -2,2565 -2,2565 -2,2565 -2,2555 -2,2565 -2,2557 -2,2555 -2,2557 -2,257	0 0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1615 2424 3636 5454 8181 12272 18408 27612 41418 62127 93191	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0003 -0,0003 -0,0003 -0,0003 -0,0013 -0,0019 -0,0029 -0,0044 -0,0026 -0,0029 -0,0149 -0,0029 -0,0120 -0,0223 -0,0498 -0,0742 -0,102 -0,1028 -0,0498 -0,0742 -0,1028 -0,0498 -0,0742 -0,1028 -0,2387 -0,2456 -1,2301 -1,2350 -2,2595 -2,2556 -2,25570	0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272 18408 27612 41418 62127 93191	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0003 -0,0008 -0,0003 -0,0009 -0,0019 -0,0029 -0,0029 -0,0029 -0,0029 -0,0029 -0,0029 -0,0149 -0,0029 -0,0149 -0,0029 -0,0149 -0,0029 -0,0149 -0,0029 -0,0149 -0,0029 -0,0149 -0,0029 -0,0149 -0,0029 -0,0149 -0,0029 -0,0129 -0,02387 -0,3464 -0,5288 -2,3575 -2,1555 -2,1567 -2,2555 -2,2555 -2,2555 -2,2557 -2,2577 -2,25	0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 53 19 28 42 53 54 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272 18408 27612 18408 27612 18408 27612	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029 -0,0044 -0,0066 -0,0099 -0,0149 -0,0029 -0,0149 -0,0149 -0,0223 -0,0149 -0,0742 -0,1102 -0,1528 -0,2387 -0,3454 -0,4950 -0,5923 -0,9406 -1,2301 -1,5350 -1,8154 -2,2357 -2,2557 -2,2557 -2,2570 -2,2570 -2,2570	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1615 2424 3636 5454 8181 12272 18408 27612 41418 62127 93191 139786	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0003 -0,0008 -0,0008 -0,0009 -0,0009 -0,0009 -0,0005 -0,0009 -0,0006 -0,0009 -0,0006 -0,0009 -0,0108 -0,0009 -0,0108 -0,0009 -0,0108 -0,0009 -0,0108 -0,0009 -0,000 -0,0009 -0,000	0 0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272 18408 27612 41418 62127 93191 139785	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0003 -0,0003 -0,0003 -0,0013 -0,0019 -0,0029 -0,0044 -0,0029 -0,0044 -0,0023 -0,0049 -0,0049 -0,0102 -0,0102 -0,0498 -0,0742 -0,102 -0,1028 -0,2387 -0,3450 -0,4985 -0,4950 -0,22570 -2,2550	0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718 1077 1615 2424 3636 5454 8181 12272 18408 27612 41418 62127 93191 139786	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0005 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029 -0,0044 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0149 -0,0023 -0,0049 -0,0123 -0,0498 -0,0742 -0,01528 -0,2387 -0,4950 -0,523 -0,4950 -0,523 -0,4950 -0,523 -0,4950 -0,523 -0,4950 -0,523 -0,4950 -0,523 -0,4950 -0,523 -0,4950 -0,523 -0,4950 -0,523 -0,4950 -0,523 -0,4950 -0,523 -0,4950 -0,523 -0,4950 -0,523 -0,4950 -0,523 -0,4950 -0,523 -0,4950 -0,523 -0,4950 -0,523 -0,4950 -0,523 -0,2550 -2,2550 -2,2570 -2,2570	0 0 0 0 1 1 2 2 4 6 8 12 19 9 28 42 6 3 8 12 19 9 5 142 213 319 718 1077 1615 2424 3635 5454 8181 12272 18408 8181 12272 18408 8181 12272	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
-0,0001 -0,0002 -0,0004 -0,0005 -0,0003 -0,0013 -0,0019 -0,0029 -0,0044 -0,0066 -0,0099 -0,0149 -0,0238 -0,0498 -0,0742 -0,1102 -0,1528 -0,2387 -0,3454 -0,4950 -0,6523 -0,3454 -0,4950 -0,6523 -0,3454 -0,4950 -0,5923 -0,3454 -0,2387 -0,3454 -2,2350 -2,2557 -2,2657 -2,2670 -2,2670	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272 18408 27612 41418 62127 93191	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0003 -0,0005 -0,0008 -0,0003 -0,0009 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0108 -0,0029 -0,0108 -0,0029 -0,0108 -0,0029 -0,0108 -0,0029 -0,0108 -0,0029 -0,0148 -0,0029 -0,0032 -0,0032 -0,0049 -0,0029 -0,0044 -0,0029 -0,0029 -0,0044 -0,0029 -0,0044 -0,0029 -0,0029 -0,0044 -0,0029 -0,0029 -0,0044 -0,0029 -0,0029 -0,0044 -0,0029 -0,0029 -0,0044 -0,0029 -0,0029 -0,0044 -0,0029 -0,0029 -0,0044 -0,0029 -0,0027 -0,0029 -0,0027 -0,0027 -0,2027 -0,2027 -0,2055 -0,205	0 0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1615 2424 3636 5454 8181 12272 18408 27612 41418 62127 93191	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0003 -0,0003 -0,0003 -0,0003 -0,0013 -0,0019 -0,0029 -0,0044 -0,0026 -0,0029 -0,0149 -0,0029 -0,0120 -0,0223 -0,0498 -0,0742 -0,102 -0,1028 -0,0498 -0,0742 -0,1028 -0,0498 -0,0742 -0,1028 -0,2387 -0,2456 -1,2301 -1,2350 -2,2595 -2,2556 -2,25570	0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272 18408 27612 41418 62127 93191	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0003 -0,0008 -0,0003 -0,0009 -0,0019 -0,0029 -0,0029 -0,0029 -0,0029 -0,0029 -0,0029 -0,0149 -0,0029 -0,0149 -0,0029 -0,0149 -0,0029 -0,0149 -0,0029 -0,0149 -0,0029 -0,0149 -0,0029 -0,0149 -0,0029 -0,0149 -0,0029 -0,0129 -0,02387 -0,3464 -0,5288 -2,3575 -2,1555 -2,1567 -2,2555 -2,2555 -2,2555 -2,2557 -2,2577 -2,25	0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 53 19 28 42 53 19 28 42 53 54 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272 18408 27612 18408 27612 18408 27612 18408 27612 18408 27612 18408 27612 18408 27612 18408 27612 18408 27612 18408 27612 18408 27612 18408 27612 18408 27612 18408 27612 1840 27612 1840 27612 1840 27612 1840 27612 1840 27612 27712 27612 27612 27612 27612 27612 27712 27612 277712 27772 277712 27772 27772 27772 27772 27772 27772 27772 277	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
-0,0001 -0,0002 -0,0004 -0,0005 -0,0008 -0,0013 -0,0019 -0,0029 -0,0044 -0,0029 -0,0044 -0,0029 -0,0149 -0,0123 -0,0149 -0,0123 -0,0149 -0,014	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272 18408 27612 41418 62127 93191 139786 209680	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0004 -0,0005 -0,0005 -0,0009 -0,0019 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0032 -0,0495 -0,0740 -0,0755 -0,0740 -0,000	0 0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 42 63 95 142 213 319 42 63 95 142 213 319 479 718 1077 1615 2424 3636 5454 8181 12272 18408 27612 41418 62127 93191 139785 209680	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0003 -0,0003 -0,0003 -0,0013 -0,0019 -0,0029 -0,0044 -0,0059 -0,0049 -0,0049 -0,0049 -0,0149 -0,005 -0,0044 -0,005 -0,0049 -0,0040 -0,000	0 0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272 18408 27612 41418 62127 93191 139786 209680	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0,0001 -0,0002 -0,0003 -0,0003 -0,0008 -0,0003 -0,0009 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0049 -0,0029 -0,0149 -0,0029 -0,0149 -0,0742 -0,1528 -0,2387 -0,3454 -0,2387 -0,3454 -0,2387 -0,3454 -0,2387 -0,3454 -1,2350 -1,8154 -2,2550 -2,2550 -2,2570 -2,2570 -2,2570 -2,2570 -2,2570	0 0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272 18408 27612 24448 8121 1277 18408 27612 1272 18408 27612 1272 18408 27612 1272 18408 27612 1272 18408 27612 1272 18408 27612 1975 1975 1975 1975 1975 1975 1975 1975	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

Displ [mm]	time [sec.]	time (h)	Crook	Displ [mm]	time [sec.]	time (h)	Crook	Displ [mm]	time [sec.]	time (h)	Crook	Displ [mm]	time [sec.]	time (h)	Crook
0,00	0	0		-0,0001	0	0		0,00	0	0		0,00	0	0	
0,00	0	0		-0,0002	0	0		0,00	0	0		0,00	0	0	
0,00	0	0		-0,0004	0	0		0,00	0	0		0,00	1	0	
0,00	0	0		-0,0005	0	0		0,00	0	0		0,00	1	0	
0,00	1	0		-0,0008	1	0		0,00	1	0		0,00	2	0	
0,00	1	0		-0,0013	1	0		0,00	1	0		0,00	3	0	
0,00	2	0		-0,0019	2	0		0,00	2	0		0,00	4	0	
0,00	2	0		-0,0029	2	0		0,00	2	0		0,00	6	0	
0,00	4	0		-0,0044	4	0		0,00	4	0		-0,01	10	0	
-0,01	6	0		-0,0066	6	0		-0,01	6	0		-0,01	15	0	
-0,01	8	0		-0,0099	8	0		-0,01	8	0		-0,01	22	0	
-0,01	12	0		-0,0149	12	0		-0,02	12	0		-0,02	33	0	
-0,02	19	0		-0,0223	19	0		-0,03	19	0		-0,03	50	0	
-0,03	28	0		-0,0333	28	0		-0,04	28	0		-0,04	75	0	
-0,05	42	0		-0,0498	42	0		-0,05	42	0		-0,05	112	0	
-0,07	63	0		-0,0742	63	0		-0,08	63	0		-0,09	168	0	
-0,11	95	0	α-ref	-0,1102	95	0	1/2 α-L	-0,12	95	0	1/2 α-T	-0,14	252	0	1/2 α-R
-0,15	142	0		-0,1528	142	0		-0,18	142	0		-0,20	378	0	
-0,24	213	0		-0,2387	213	0		-0,27	213	0		-0,28	567	0	
-0,35	319	0		-0,3464	319	0		-0,39	319	0		-0,39	851	0	
-0,49	479	0		-0,4950	479	0		-0,55	479	0		-0,52	1277	0	
-0,69	718	0		-0,6923	718	0		-0,76	718	0		-0,67	1915	1	
-0,94	1077	0		-0,9406	1077	0		-1,03	1077	0		-0,82	2873	1	
-1,23	1616	0		-1,2301	1615	0		-1,33	1616	0		-0,95	4309	1	
-1,53	2424	1		-1,5350	2424	1		-1,63	2424	1		-1,04	6464	2	
-1,82	3636	1		-1,8154	3636	1		-1,90	3636	1		-1,09	9696	3	
-2,03	5454	2		-2,0326	5454	2		-2,09	5454	2		-1,11	14545	4	
-2,17	8181	2		-2,1687	8181	2		-2,21	8181	2		-1,12	21817	6	
-2,24	12272	3		-2,2350	12272	3		-2,26	12272	3		-1,12	32725	9	
-2,26	18408	5		-2,2592	18408	5		-2,28	18408	5		-1,12	49088	14	
-2,27	27612	8		-2,2656	27612	8		-2,28	27612	8		-1,12	73632	20	
-2,27	41418	12		-2,2669	41418	12		-2,28	41418	12		-1,12	110448	31	
-2,27	62127	17		-2,2670	62127	17		-2,28	62127	17		-1,12	165673	46	
-2,27	93191	26		-2,2670	93191	26		-2,28	93191	26		-1,12	248509	69	
-2,27	139786	39		-2,2670	139785	39		-2,28	139785	39		-1,12	414182	115	
-2,27	209680	58		-2,2670	209680	58		-2,28	209680	58		-1,12	518400	144	
-2,27	314520	87		-2,2670	314520	87		-2,28	314520	87					
-2,27	518400	144		-2,2670	518400	144		-2,28	518400	144					

Temp.	Time [sec.]	Time [h]		Temp	Time [sec.]	Time [h]			Temp	Time [sec.]	Time [h]	
14,00	0	0		14,00	0	0			14,00	0	0	
14,00	0	0		14,00	0	0			14,00	0	0	
14,00	0	0		14,00	0	0			14,00	0	0	
14,00	0	0		14,00	0	0			14,00	0	0	
14,00	1	0		14,00	1	0			14,00	1	0	
14,00	1	0		14,00	1	0			14,00	1	0	
14,00	2	0		14,00	2	0			14,00	2	0	
14,00	3	0		14,00	3	0			14,00	3	0	
14,00	7	0		14,00	7	0			14,00	7	0	
14,00	13	0		14,00	13	0			14,00	13	0	
14,00	26	0		14,00	26	0			14,00	26	0	
14,00	45	0		14,00	45	0			14,00	45	0	
	45 74	0			45 74	0				4 <i>)</i> 74	0	
14,00				14,00					14,00			
14,00	117	0		14,00	117	0			14,00	117	0	
14,00	182	0		14,00	182	0			14,00	182	0	
14,00	279	0		14,00	279	0			14,00	279	0	
14,00	425	0	Reference	14,00	425	0	2 mm Gesso		14,00	425	0	0,2 mm Gesso
13,99	643	0		14,00	643	0			14,00	643	0	
13,99	971	0		13,99	971	0			13,99	971	0	
13,98	1464	0		13,99	1464	0			13,99	1464	0	
13,95	2202	1		13,97	2202	1		1	13,97	2202	1	
13,90	3309	1		13,95	3309	1		1	13,94	3309	1	
13,82	4970	1		13,91	4970	1		1	13,89	4970	1	
13,68	7461	2		13,51	7461	2		1	13,85	7461	2	
						∠ 3		1				
13,47	11197	3		13,73	11197			1	13,66	11197	3	
13,16	16802	5		13,57	16802	5		1	13,42	16802	5	
12,71	25210	7		13,33	25210	7		1	13,06	25210	7	
12,11	37821	11		12,99	37821	11		1	12,53	37821	11	
11,33	56738	16		12,53	56738	15			11,79	56738	15	
10,38	85114	24		11,92	85114	24		1	10,85	85114	24	
9,33	127677	35		11,16	127677	35		1	9,77	127677	35	
8,28	191522	53		10,24	191522	53			8,64	191522	53	
7,36	287289	80		9,23	287289	80		1	7,62	287289	80	
6,68	430941	120		8,21	430941	120		1	5,84	430941	120	
6,27	518400	144		7,32	518400	144			6,35	518400	144	
1 1												
		Temp	Time [sec.]	Time [b]			Temp	Time [sec	.] Time [f	1		
	F	Temp		Time [h]				Time [sec		]		
	F	14,00	0	0			14,00	0	0	)		1
	F	14,00 14,00	0	0 0			14,00 14,00	0 0	0	b]		]
	F	14,00	0	0			14,00	0	0	)		]
	F	14,00 14,00 14,00	0	0 0			14,00 14,00	0 0	0	5]		]
	F	14,00 14,00 14,00 14,00	0 0 0 0	0 0 0 0			14,00 14,00 14,00 14,00	0 0 0 0	0 0 0 0	5]		-
		14,00 14,00 14,00 14,00 14,00	0 0 0 0 1	0 0 0 0			14,00 14,00 14,00 14,00 14,00	0 0 0 1	0 0 0 0 0	»]		]
	F	14,00 14,00 14,00 14,00 14,00 14,00	0 0 0 0 1 1	0 0 0 0 0			14,00 14,00 14,00 14,00 14,00 14,00 14,00	0 0 0 1 1	0 0 0 0 0	<u>)</u>		
	F	14,00 14,00 14,00 14,00 14,00 14,00 14,00	0 0 0 1 1 2	0 0 0 0 0 0			14,00 14,00 14,00 14,00 14,00 14,00 14,00	0 0 0 1 1 2	0 0 0 0 0 0	1]		
		14,00 14,00 14,00 14,00 14,00 14,00	0 0 0 0 1 1	0 0 0 0 0			14,00 14,00 14,00 14,00 14,00 14,00 14,00	0 0 0 1 1	0 0 0 0 0	0]		
		14,00 14,00 14,00 14,00 14,00 14,00 14,00	0 0 0 1 1 2	0 0 0 0 0 0			14,00 14,00 14,00 14,00 14,00 14,00 14,00	0 0 0 1 1 2	0 0 0 0 0 0	0]		
		14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00	0 0 0 1 1 2 3 7	0 0 0 0 0 0 0 0			14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00	0 0 0 1 1 2 3 7	0 0 0 0 0 0 0 0 0 0 0	)		
		14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00	0 0 0 1 1 2 3 7 13	0 0 0 0 0 0 0 0 0			14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00	0 0 0 1 1 2 3 7 13		5]		
		14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00	0 0 0 1 1 2 3 7 13 26	0 0 0 0 0 0 0 0 0 0			14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00	0 0 0 1 1 2 3 7 13 26				
		14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00	0 0 0 1 1 2 3 7 13 26 45	0 0 0 0 0 0 0 0 0 0 0			14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00	0 0 0 1 1 2 3 7 13 26 45		]		
		14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00	0 0 0 1 1 2 3 7 13 26	0 0 0 0 0 0 0 0 0 0			14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00	0 0 0 1 1 2 3 7 13 26		3]		
		14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00	0 0 0 1 1 2 3 7 13 26 45	0 0 0 0 0 0 0 0 0 0 0			14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00	0 0 0 1 1 2 3 7 13 26 45		1		
		14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00	0 0 0 1 1 2 3 7 13 26 45 74 117	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00	0 0 0 1 1 2 3 7 13 26 45 74 117				
		14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00	0 0 0 1 1 2 3 7 13 26 45 74 117 182	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00	0 0 0 1 1 2 3 7 13 26 45 74 117 182		]		
		14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00	0 0 0 1 1 2 3 7 13 26 45 74 117 182 279	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			14,00 14	0 0 0 1 1 2 3 7 13 26 45 74 117 182 279				
		14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00	0 0 0 1 1 2 3 7 13 26 45 74 117 182 279 425	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0,6 mm Gesso		14,00 14	0 0 0 1 1 2 3 7 13 26 45 74 117 182 279 425		.] 1,0 mm	Gesso	
		14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00	0 0 0 1 1 2 3 7 13 26 45 74 117 182 279	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0,6 mm Gesso		14,00 14	0 0 0 1 1 2 3 7 13 26 45 74 117 182 279			Gesso	
		14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00	0 0 0 1 1 2 3 7 13 26 45 74 117 182 279 425 643	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0,6 mm Gesso		14,00 14	0 0 0 1 1 2 3 7 13 26 45 74 117 182 279 425 643			Gesso	
		14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00	0 0 0 1 1 2 3 7 13 26 45 74 117 182 279 425 643 971	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0,6 mm Gesso		14,00 14	0 0 0 1 1 2 3 7 13 26 45 74 117 182 279 425 643 971			Gesso	
		14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00	0 0 0 1 1 2 3 7 13 26 45 74 117 182 279 425 643 971 1464	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0,6 mm Gesso		14,00 13,99 13,99	0 0 0 1 1 2 3 7 13 26 45 74 117 182 279 425 643 971 1464			Gesso	
		14,00 14,00	0 0 0 1 1 2 3 7 13 26 45 74 117 182 279 425 643 971 1464 2202	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0,6 mm Gesso		14,00 13,99 13,99 13,99	0 0 0 1 1 2 3 7 13 26 45 74 117 182 279 425 643 971 1464 2202			Gesso	
		14,00 14,00	0 0 0 0 1 1 2 3 7 13 25 45 74 117 182 279 425 643 971 1464 2202 3309	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0,6 mm Gesso		14,00 13,99 13,99 13,95	0 0 0 1 1 2 3 7 13 26 45 74 117 182 279 425 643 971 1464 2202 3309			Gesso	
		14,00 14,00	0 0 0 1 1 2 3 7 13 26 45 74 117 182 279 425 643 971 1464 2202	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0,6 mm Gesso		14,00 13,99 13,99 13,99	0 0 0 1 1 2 3 7 13 26 45 74 117 182 279 425 643 971 1464 2202			Gesso	
		14,00 13,99 13,99 13,97 13,97 13,97 13,97 13,97 13,97	0 0 0 0 1 1 2 3 7 13 26 45 74 117 182 279 425 643 971 1464 2202 3309 4970	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0,6 mm Gesso		14,00 13,99 13,99 13,97 13,95 13,91	0 0 0 1 1 2 3 7 13 26 45 74 117 182 279 425 643 971 1464 2202 3309 4970			Gesso	
		14,00 13,99 13,99 13,99 13,99 13,99 13,95 13,91 13,83	0 0 0 0 1 1 2 3 7 13 26 45 74 117 182 279 425 643 971 1464 2202 3309 4970 7461	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0,6 mm Gesso		14,00 13,99 13,95 13,95 13,91 13,84	0 0 0 1 1 2 3 7 13 26 45 45 45 45 45 45 45 425 643 971 1464 2202 3309 4970 7461			Gesso	
		14,00 13,99 13,97 13,97 13,97 13,97	0 0 0 0 1 1 2 3 7 13 26 45 74 117 182 279 425 643 971 1464 2202 3309 4970 7461 11197	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0,6 mm Gesso		14,00 13,99 13,99 13,91 13,91 13,91 13,94 13,72	0 0 0 1 1 2 3 7 13 26 45 74 117 182 279 425 643 971 1464 2202 3309 4970 7461 11197			Gesso	
		14,00 13,99 13,99 13,97 13,95 13,91 13,95 13,91 13,95 13,91 13,95	0 0 0 0 1 1 2 3 7 13 26 45 74 117 182 279 425 643 971 1464 2202 3309 4970 7461 11197 16802	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0,6 mm Gesso		14,00 13,99 13,99 13,95 13,91 13,84 13,72 13,54	0 0 0 1 1 2 3 7 13 26 45 74 117 182 279 425 643 971 1464 2202 3309 4970 7461 11197 16802	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Gesso	
		14,00 13,99 13,99 13,95 14,95 14,95 14,95 14,95 14,95 14,95 14,95 14,95 14,95 14,95 14,95 14,95	0 0 0 0 1 1 2 3 7 13 26 45 74 117 182 279 425 643 971 1464 2202 3309 4970 7461 11197 16802 25210	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0,6 mm Gesso		14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 14,00 13,99 13,99 13,99 13,95 13,91 13,84 13,72 13,54 13,28	0 0 0 1 1 2 3 7 13 26 45 74 117 182 279 425 643 971 1464 2202 3309 4970 7461 11197 15802 25210	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Gesso	
		14,00 13,99 13,99 13,97 13,95 13,91 13,95 13,91 13,95 13,91 13,95	0 0 0 0 1 1 2 3 7 13 26 45 74 117 182 279 425 643 971 1464 2202 3309 4970 7461 11197 16802	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0,6 mm Gesso		14,00 13,99 13,99 13,95 13,91 13,84 13,72 13,54	0 0 0 1 1 2 3 7 13 26 45 74 117 182 279 425 643 971 1464 2202 3309 4970 7461 11197 16802	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Gesso	

12,37

. 11,65

10,75 9,68 8,57 7,56 6,79

12,21

. 11,40

10,39 9,27 8,15 7,21

6,56

85114

80 

#### Appendix H: Data moisture distribution due to thickness Gesso layer

# Appendix I: Data influence of pith orientation on bow

Displ [mm]	Time [sec]	Time [h]	e=200 mm	Displ [mm]	Time [sec]	Time [h]	e=107.5 mm	Displ [mm]	Time [sec]	Time [h]	e=7,5 mm
0,0002	0	0		0,0005	0	0		0,0001	0	0	
0,0003	0	0		0,0010	0	0		0,0002	0	0	
0,0005	0	0		0,0015	0	0		0,0004	0	0	
0,0008	0	0		0,0024	0	0		0,0005	0	0	
0,0012	0	0		0,0035	1	0		0,0009	0	0	
0,0019	0	0		0,0054	1	0		0,0014	0	0	
0,0028	1	0		0,0082	1	0		0,0022	0	0	
0,0043	1	0		0,0123	2	0		0,0033	1	0	
0,0065	1	0		0,0185	3	0		0,0050	1	0	
0,0097	2	0		0,0278	4	0		0,0075	1	0	
0,0145	3	0		0,0417	6	0		0,0114	2	0	
0,0219	4	0		0,0624	9	0		0,0171	3	0	
0,0329	6	0		0,0932	14	0		0,0257	4	0	
0,0492	9	0		0,1390	21	0		0,0385	6	0	
0,0735	14	0		0,2066	32	0		0,0577	9	0	
0,1096	21	0		0,3057	47	0		0,0864	14	0	
0,1628	32	0		0,4493	71	0		0,1291	21	0	
0,2407	47	0		0,6539	105	0		0,1923	32	0	
0,3533	71	0		0,9384	160	0		0,2856	47	0	
0,5133	105	0		1,3210	239	0		0,4220	71	0	
0,7347	160	0		1,8109	359	0		0,6189	105	0	
1,0303	239	0		2,3991	539	0		0,8982	160	0	
1,4052	359	0		3,0479	808	0		1,2841	239	0	
1,8491	539	0		3,6922	1212	0		1,7974	359	0	
2,3297	808	0		4,2567	1818	1		2,4452	539	0	
2,7954	1212	0		4,6838	2727	1		3,2061	808	0	
3,1912	1818	1		4,9531	4091	1		4,0197	1212	0	
3,4776	2727	1		5,0822	6136	2		4,7951	1818	1	
3,6405	4091	1		5,1119	9204	3		5,4479	2727	1	
3,6882	6136,02	2		5,0840	13805	4		5,9497	4091	1	
3,6433	9204,04	3		5,0257	20709	6		6,3461	6136	2	
3,5313	13806,1	4		4,9505	31064	9		6,7244	9204	3	
3,3715	20709,1	6		4,8665	46596	13		7,1611	13806	4	
3,1777	31063,7	9		4,7830	69893	19		7,6938	20709	6	
2,9667	46595,5	13		4,7107	104840	29		8,3176	31064	9	
2,7614	69893,2	19		4,6582	157260	44		8,9887	46596	13	
2,5887	104840	29		4,6277	235890	66		9,6337	69893	19	
2,4674	157260	44		4,6141	353835	98		10,1588	104840	29	
2,3994	235890	66		4,6097	518400	144		10,5378	157260	44	
2,3702	353835	98						10,7407	235890	66	
2,3610	518400	144						10,8260	353835	98	
								10,8520	518400	144	

Displ [mm] 0,0000		Time [h.]	E = 760 Mpa	Displ [mm]	Time [sec.	] Time [h.]	E = 500 Mpa	Displ [mm]	Time [sec.]	Time [h.]	E = 600 Mp
	Time [sec.] 0	0		0,0000	0	0		0,0000	0	0	
0,0000	0	0		0,0000	0	0		0,0000	0	0	
0,0001	0	0		0,0001	0	0		0,0001	0	0	
0,0001	0	õ			0 0	õ			õ	0	
				0,0001				0,0001			
0,0002	0	0		0,0002	0	0		0,0002	0	0	
0,0003	0	0		0,0004	0	0		0,0004	0	0	
0,0007	0	0		0,0007	0	0		0,0007	0	0	
0,0013	0	0		0,0013	0	0		0,0013	0	0	
0,0025	0	0		0,0025	0	0		0,0025	0	0	
0,0044	0	0		0,0045	0	0		0,0044	0	0	
0,0071	0	ō		0,0073	0	0		0,0073	0	ō	
	õ	õ			õ	õ			õ	ō	
0,0113				0,0115				0,0115			
0,0176	0	0		0,0180	0	0		0,0178	0	0	
0,0270	1	0		0,0276	1	0		0,0274	1	0	
0,0410	1	0		0,0420	1	0		0,0416	1	0	
0,0621	2	0		0,0636	2	0		0,0630	2	0	
0,0937	2	0	Bow	0,0960	2	0	Bow	0,0951	2	0	Bow
0,1411	4	0		0,1444	4	0		0,1431	4	0	
0,2120	6	0		0,2170	6	0		0,2150	6	0	
0,3179	8	0		0,3255	8	õ		0,3225	8	0	
0,4762	12	0		0,4875	12	0		0,4830	12	0	
0,7118	19	0		0,7287	19	0		0,7220	19	0	
1,0615	28	0		1,0867	28	0		1,0767	28	0	
1,5778	42	0		1,6152	42	0		1,6004	42	0	
2,3341	63	0		2,3893	63	0		2,3675	63	0	
3,4291	95	0		3,5101	95	0		3,4781	95	0	
4,9879	142	õ		5,1055	142	õ		5,0591	142	0	
4,3673 7,1524		0			213	0		7,2542	213	0	
-	213			7,3205							
10,0526	319	0		10,2878	319	0		10,1950	319	0	
13,7462	479	0		14,0659	479	0		13,9398	479	0	
18,1304	718	0		18,5483	718	0		18,3834	718	0	
22,8590	1077	0		23,3795	1077	0		23,1741	1077	0	
27,3506	1616	0		27,9634	1616	0		27,7217	1616	0	
30,9697	2424	1		31,6492	2424	1		31,3812	2424	1	
33,3273	3636	1		34,0392	3636	1		33,7585	3636	1	
34,4659	5454	2		35,1772	5454	2		34,8968	5454	2	
	8181	2			8181	2				2	
34,7279				35,4121				35,1423	8181		
34,4402	12272	3		35,0745	12272	3		34,8243	12272	3	
33,7175	18408	5		34,2773	18408	5		34,0564	18408	5	
32,4762	27612	8		32,9300	27612	8		32,7506	27612	8	
30,5452	41418	12		30,8547	41418	12		30,7319	41418	12	
27,7914	62127	17		27,9150	62127	17		27,8651	62127	17	
24,9142	85400	24		24,8567	85400	24		24,8776	85400	24	
			1						1		
Displ [mm]	Time [sec.]	Time [h.]	E = 900 Mpa	Displ [mm]	Time [sec.]	Time [h.]	E = 1000 Mpa	Displ [mm]	Time [sec.]	Time [h.]	E = 1100 N
Displ [mm] 0,0000	Time [sec.]	Time [h.] 0	E = 900 Mpa	Displ [mm] 0,0000	Time [sec.] 0	Time [h.] 0	E = 1000 Mpa	Displ [mm] 0,0000	Time [sec.] 0	Time [h.] 0	E = 1100 N
0,0000			E = 900 Mpa				E = 1000 Mpa				E = 1100 N
0,0000 0,0000	0	0 0	E = 900 Mpa	0,0000 0,0000	0	0 0	E = 1000 Mpa	0,0000 0,0000	0	0 0	E = 1100 N
0,0000 0,0000 0,0001	0 0 0	0 0 0	E=900 Mpa	0,0000 0,0000 0,0001	0 0 0	0 0 0	E = 1000 Mpa	0,0000 0,0000 0,0000	0 0 0	0 0 0	E = 1100 N
0,0000 0,0000 0,0001 0,0001	0 0 0 0	0 0 0 0	E = 900 Mpa	0,0000 0,0000 0,0001 0,0001	0 0 0 0	0 0 0 0	E = 1000 Mpa	0,0000 0,0000 0,0000 0,0001	0 0 0 0	0 0 0 0	E = 1100 N
0,0000 0,0000 0,0001 0,0001 0,0002	0 0 0 0 0	0 0 0 0 0	E = 900 Mpa	0,0000 0,0000 0,0001 0,0001 0,0002	0 0 0 0 0	0 0 0 0 0	E = 1000 Mpa	0,0000 0,0000 0,0000 0,0001 0,0001	0 0 0 0	0 0 0 0 0	E = 1100 M
0,0000 0,0000 0,0001 0,0001 0,0002 0,0003	0 0 0 0 0 0	0 0 0 0 0 0	E = 900 Mpa	0,0000 0,0000 0,0001 0,0001 0,0002 0,0003	0 0 0 0 0 0	0 0 0 0 0 0	E = 1000 Mpa	0,0000 0,0000 0,0000 0,0001 0,0002 0,0002	0 0 0 0 0 0	0 0 0 0 0 0	E = 1100 N
0,0000 0,0000 0,0001 0,0001 0,0002 0,0003 0,0005	0 0 0 0 0 0 0	0 0 0 0 0 0 0	E = 900 Mpa	0,0000 0,0000 0,0001 0,0001 0,0002 0,0003 0,0003	0 0 0 0 0 0 0	0 0 0 0 0 0 0	E = 1000 Mpa	0,0000 0,0000 0,0000 0,0001 0,0002 0,0003 0,0005	0 0 0 0 0 0 0	0 0 0 0 0 0 0	E = 1100 N
0,0000 0,0000 0,0001 0,0001 0,0002 0,0003	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	E=900 Mpa	0,0000 0,0000 0,0001 0,0001 0,0002 0,0003	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	E = 1000 Mpa	0,0000 0,0000 0,0000 0,0001 0,0002 0,0002	0 0 0 0 0 0 0 0	0 0 0 0 0 0	E = 1100 M
0,0000 0,0000 0,0001 0,0001 0,0002 0,0003 0,0005	0 0 0 0 0 0 0	0 0 0 0 0 0 0	E=900 Mpa	0,0000 0,0000 0,0001 0,0001 0,0002 0,0003 0,0003	0 0 0 0 0 0 0	0 0 0 0 0 0 0	Е = 1000 Мра	0,0000 0,0000 0,0000 0,0001 0,0002 0,0003 0,0005	0 0 0 0 0 0 0	0 0 0 0 0 0 0	E = 1100 M
0,0000 0,0001 0,0001 0,0001 0,0002 0,0003 0,0006 0,0013	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	E=900 Mpa	0,0000 0,0000 0,0001 0,0001 0,0002 0,0003 0,0005 0,0012	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	E = 1000 Mpa	0,0000 0,0000 0,0000 0,0001 0,0002 0,0003 0,0003 0,0005 0,0012	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	E = 1100 W
0,0000 0,0000 0,0001 0,0001 0,0002 0,0003 0,0006 0,0013 0,0025 0,0043	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	E = 900 Mpa	0,0000 0,0000 0,0001 0,0002 0,0003 0,0006 0,0012 0,0025 0,0043	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	E = 1000 Mpa	0,0000 0,0000 0,0000 0,0001 0,0002 0,0003 0,0005 0,0012 0,0024 0,0024 0,0042	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	E = 1100 N
0,0000 0,0001 0,0001 0,0002 0,0003 0,0005 0,0013 0,0025 0,0043 0,0071	0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	E = 900 Mpa	0,0000 0,0001 0,0001 0,0002 0,0003 0,0006 0,0012 0,0005 0,0012 0,0025 0,0043	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	E = 1000 Mpa	0,0000 0,0000 0,0000 0,0001 0,0002 0,0003 0,0005 0,0012 0,0024 0,0024 0,0024 0,0042	0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	E = 1100 N
0,0000 0,0001 0,0001 0,0002 0,0003 0,0006 0,0013 0,0005 0,0013 0,0025 0,0043 0,0071 0,0112	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 900 Mpa	0,0000 0,0001 0,0001 0,0002 0,0003 0,0005 0,0012 0,0025 0,0043 0,0070 0,0111		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 1000 Mpa	0,0000 0,0000 0,0001 0,0002 0,0003 0,0005 0,0012 0,0024 0,0024 0,0042 0,0042 0,0069 0,0110	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 1100 N
0,0000 0,0001 0,0001 0,0002 0,0003 0,0003 0,0003 0,0003 0,0003 0,0013 0,0013 0,0025 0,0043 0,0071 0,0112 0,0174	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 900 Mpa	0,0000 0,0000 0,0001 0,0002 0,0003 0,0005 0,0012 0,0025 0,0043 0,0070 0,0111 0,0172	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 1000 Mpa	0,0000 0,0000 0,0000 0,0001 0,0002 0,0003 0,0005 0,0012 0,0004 0,00042 0,0005 0,0012 0,0004 0,0005 0,0110 0,0171	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E=1100 N
0,0000 0,0000 0,0001 0,0002 0,0003 0,0005 0,0013 0,0025 0,0043 0,0071 0,0112 0,0174 0,0256	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 900 Mpa	0,0000 0,0001 0,0001 0,0002 0,0003 0,0005 0,0012 0,0025 0,0043 0,0070 0,0111 0,0172 0,0254		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 1000 Mpa	0,0000 0,0000 0,0000 0,0001 0,0002 0,0003 0,0005 0,0012 0,0024 0,0024 0,0024 0,0069 0,0110 0,0171 0,0252		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 1100 N
0,0000 0,0001 0,0001 0,0002 0,0003 0,0003 0,0003 0,0003 0,0013 0,0013 0,0025 0,0043 0,0071 0,0112 0,0174 0,0266 0,0405			E = 900 Mpa	0,0000 0,0001 0,0001 0,0002 0,0003 0,0006 0,0012 0,0025 0,0043 0,0070 0,0111 0,0172 0,0254 0,0402	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 1000 Mpa	0,0000 0,0000 0,0000 0,0001 0,0002 0,0003 0,0005 0,0012 0,0024 0,0042 0,0042 0,0042 0,0042 0,0042 0,0042 0,0110 0,0171 0,0262 0,0399			E = 1100 N
0,0000 0,0000 0,0001 0,0001 0,0002 0,0003 0,0003 0,0005 0,0013 0,0005 0,0013 0,0025 0,0011 0,0112 0,0174 0,0266 0,0405 0,0405	0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0000 0,0000 0,0001 0,0002 0,0003 0,0005 0,0012 0,0025 0,0043 0,0070 0,0111 0,0172 0,0264 0,0609	0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0000 0,0000 0,0001 0,0002 0,0003 0,0005 0,0012 0,0024 0,0024 0,0042 0,0059 0,0110 0,0171 0,0262 0,0399 0,0504		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0000 0,0001 0,0001 0,0002 0,0003 0,0003 0,0003 0,0003 0,0013 0,0013 0,0025 0,0043 0,0071 0,0112 0,0174 0,0266 0,0405			E = 900 Mpa Bow	0,0000 0,0001 0,0001 0,0002 0,0003 0,0006 0,0012 0,0025 0,0043 0,0070 0,0111 0,0172 0,0254 0,0402	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 1000 Mpa	0,0000 0,0000 0,0000 0,0001 0,0002 0,0003 0,0005 0,0012 0,0024 0,0042 0,0042 0,0042 0,0042 0,0042 0,0042 0,0110 0,0171 0,0262 0,0399	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 2 2 2		
0,0000 0,0000 0,0001 0,0001 0,0002 0,0003 0,0003 0,0005 0,0013 0,0005 0,0013 0,0025 0,0011 0,0112 0,0174 0,0266 0,0405 0,0405	0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0000 0,0000 0,0001 0,0002 0,0003 0,0005 0,0012 0,0025 0,0043 0,0070 0,0111 0,0172 0,0264 0,0609	0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0000 0,0000 0,0001 0,0002 0,0003 0,0005 0,0012 0,0024 0,0024 0,0042 0,0059 0,0110 0,0171 0,0262 0,0399 0,0504		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0000 0,0000 0,0001 0,0001 0,0002 0,0003 0,0003 0,0003 0,0013 0,0025 0,0043 0,0012 0,0112 0,0174 0,0174 0,0256 0,0405	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 2 2			0,0000 0,0000 0,0001 0,0002 0,0003 0,0005 0,0012 0,0025 0,0043 0,0070 0,0111 0,0172 0,0254 0,0402 0,0609 0,0918	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0000 0,0000 0,0000 0,0001 0,0002 0,0003 0,0003 0,0003 0,0012 0,0024 0,0042 0,0042 0,0042 0,0042 0,0010 0,0171 0,0252 0,0050 0,0000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 2 2 2		
0,0000 0,0000 0,0001 0,0001 0,0002 0,0003 0,0003 0,0003 0,0013 0,0025 0,0013 0,0013 0,00112 0,0071 0,0112 0,0174 0,0256 0,0405 0,0405 0,0405 0,0405 0,0405	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 2 2 4 5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0000 0,0001 0,0001 0,0002 0,0003 0,0003 0,0003 0,0003 0,0012 0,0025 0,0012 0,0025 0,0043 0,0070 0,0111 0,0172 0,0254 0,0402 0,0609 0,0918 0,1382 0,2077	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0,0000 0,0000 0,0000 0,0001 0,0002 0,0003 0,0003 0,0002 0,0002 0,0003 0,0002 0,0002 0,0003 0,0002 0,0002 0,0002 0,0002 0,0002 0,000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0000 0,0000 0,0001 0,0001 0,0002 0,0003 0,0003 0,0003 0,0013 0,0013 0,0013 0,0013 0,0013 0,0013 0,0013 0,0014 0,0174 0,0174 0,0174 0,0174 0,0256 0,0614 0,0614 0,0626 0,1394 0,2094	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 2 2 4 5 8	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0000 0,0000 0,0001 0,0002 0,0003 0,0005 0,0012 0,0025 0,0043 0,0070 0,0111 0,0172 0,0264 0,0609 0,0918 0,1382 0,2077 0,3115	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0,0000 0,0000 0,0000 0,0001 0,0002 0,0003 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0000 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,000500000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 2 2 4 6 8	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0000 0,0000 0,0001 0,0001 0,0002 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0000 0,0001 0,0000 0,0000 0,0003 0,0012 0,0012 0,0012 0,0013 0,0012 0,0013 0,0012 0,0013 0,0012 0,0014 0,0012 0,0014 0,0012 0,0014 0,0012 0,0014 0,0012 0,0014 0,0012 0,0014 0,0026 0,0014 0,0026 0,0014 0,0026 0,0014 0,0026 0,0014 0,0026 0,0014 0,0026 0,0014 0,0026 0,0014 0,0026 0,0014 0,0026 0,0014 0,0026 0,0014 0,0026 0,0014 0,0004 0,0014 0,0012 0,0014 0,0012 0,0014 0,0012 0,0014 0,0012 0,0014 0,0012 0,0014 0,0012 0,0014 0,0012 0,0014 0,0012 0,0014 0,0012 0,0014 0,0014 0,0012 0,0014 0,0012 0,0014 0,0014 0,0014 0,0014 0,0014 0,0014 0,0014 0,0000 0,0000 0,0000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 2 2 4 5 5 8 12			0,0000 0,0000 0,0001 0,0002 0,0003 0,0005 0,0012 0,0025 0,0043 0,0070 0,0111 0,0172 0,0254 0,0402 0,0609 0,0918 0,1382 0,2077 0,3115 0,4655	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0,0000 0,0000 0,0000 0,0001 0,0002 0,0003 0,0003 0,0012 0,0012 0,0024 0,0042 0,0042 0,0042 0,0110 0,0171 0,0252 0,0564 0,0911 0,1371 0,26664 0,3990 0,3990	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 2 2 4 5 8 12		
0,0000 0,0000 0,0001 0,0001 0,0002 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,00043 0,00043 0,00043 0,00112 0,0112 0,0174 0,0256 0,0405 0,0405 0,0405 0,0405 0,1394 0,2094 0,3141 0,4705 0,7033	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0000 0,0001 0,0001 0,0002 0,0003 0,0005 0,0012 0,0025 0,0043 0,0070 0,0111 0,0172 0,0254 0,0402 0,0609 0,0918 0,1382 0,2077 0,3115 0,4665 0,6974	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0,0000 0,0000 0,0000 0,0001 0,0002 0,0003 0,0003 0,0002 0,0003 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0005 0,0005 0,0005 0,0000 0,0002 0,00000 0,000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0000 0,0000 0,0001 0,0001 0,0002 0,0003 0,0003 0,0003 0,0003 0,0013 0,0025 0,0013 0,0013 0,0012 0,00112 0,0074 0,0112 0,0174 0,0265 0,0403 0,0614 0,0266 0,2094 0,2094 0,2094 0,2094 0,2094 0,2094	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0000 0,0001 0,0001 0,0002 0,0003 0,0006 0,0012 0,0025 0,0043 0,0070 0,0111 0,0172 0,0254 0,0402 0,0609 0,0918 0,1382 0,2077 0,3115 0,4665 0,6974 1,0401	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0,0000 0,0000 0,0000 0,0001 0,0002 0,0003 0,0002 0,0003 0,0002 0,0004 0,0004 0,0012 0,0024 0,0004 0,0012 0,0024 0,0012 0,0024 0,0001 0,0002 0,000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
0,0000 0,0000 0,0001 0,0001 0,0002 0,0003 0,0003 0,0003 0,0013 0,0025 0,0043 0,00112 0,0074 0,00112 0,0174 0,0256 0,0405 0,0405 0,0405 0,0405 0,0405 0,1394 0,2094 0,3141 0,4705 0,7033	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0000 0,0000 0,0001 0,0002 0,0003 0,0005 0,0012 0,0025 0,0043 0,0070 0,0111 0,0172 0,0264 0,0402 0,0609 0,0918 0,1382 0,2077 0,3115 0,4665 0,6974 1,0401 1,5460	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42			0,0000 0,0000 0,0000 0,0001 0,0002 0,0003 0,0003 0,0002 0,0003 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0005 0,0005 0,0005 0,0000 0,0002 0,00000 0,000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
0,0000 0,0000 0,0001 0,0001 0,0002 0,0003 0,0003 0,0003 0,0003 0,0013 0,0025 0,0013 0,0013 0,0012 0,00112 0,0074 0,0112 0,0174 0,0265 0,0403 0,0614 0,0266 0,2094 0,2094 0,2094 0,2094 0,2094 0,2094	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0000 0,0001 0,0001 0,0002 0,0003 0,0006 0,0012 0,0025 0,0043 0,0070 0,0111 0,0172 0,0254 0,0402 0,0609 0,0918 0,1382 0,2077 0,3115 0,4665 0,6974 1,0401	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0,0000 0,0000 0,0000 0,0001 0,0002 0,0003 0,0002 0,0003 0,0002 0,0004 0,0004 0,0012 0,0024 0,0004 0,0012 0,0024 0,0012 0,0024 0,0001 0,0002 0,000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
0,0000 0,0000 0,0001 0,0001 0,0002 0,0003 0,0012 0,0012 0,0012 0,0012 0,0012 0,0012 0,0012 0,0012 0,0012 0,0014 0,0026 0,0014 0,0026 0,0014 0,0026 0,0014 0,0026 0,0014 0,0026 0,0014 0,0026 0,0014 0,0026 0,0014 0,0026 0,0014 0,0026 0,0014 0,0026 0,003 0,0014 0,0026 0,003 0,003 0,003 0,0012 0,003 0,0014 0,0026 0,003 0,003 0,003 0,003 0,003 0,003 0,003 0,003 0,003 0,003 0,003 0,003 0,003 0,003 0,003 0,003 0,003 0,003 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0000 0,0000 0,0001 0,0002 0,0003 0,0005 0,0012 0,0025 0,0043 0,0070 0,0111 0,0172 0,0264 0,0402 0,0609 0,0918 0,1382 0,2077 0,3115 0,4665 0,6974 1,0401 1,5460	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42			0,0000 0,0000 0,0000 0,0001 0,0002 0,0003 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0000 0,0002 0,0000 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0005 0,0002 0,0005 0,0002 0,0005 0,	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42		
0,0000 0,0000 0,0001 0,0001 0,0002 0,0003 0,0003 0,0003 0,0003 0,0003 0,0013 0,0025 0,0013 0,0013 0,0025 0,0013 0,00112 0,0074 0,0014 0,0026 0,0014 0,0026 0,0013 0,0026 0,0013 0,0003 0,0003 0,0001 0,0002 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0002 0,0003 0,0000 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0,0000 0,0001 0,0001 0,0002 0,0003 0,0003 0,0003 0,0003 0,0012 0,0025 0,0013 0,0012 0,0025 0,0043 0,0013 0,0011 0,0172 0,0254 0,0402 0,0609 0,0918 0,0402 0,0609 0,0918 0,3115 0,4665 0,6574 1,0401 1,5460 2,2870 3,3600	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0,0000 0,0000 0,0000 0,0001 0,0002 0,0003 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0000 0,0002 0,000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
0,0000 0,0000 0,0001 0,0001 0,0002 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0001 0,0011 0,0012 0,0011 0,0012 0,0014 0,0026 0,0014 0,0026 0,0014 0,0026 0,0013 0,0005 0,0003 0,0003 0,0005 0,0004 0,0005 0,0004 0,0005 0,0004 0,0005 0,0004 0,0005 0,0004 0,0005 0,0004 0,0002 0,0004 0,0005 0,0004 0,0005 0,0004 0,0005 0,0004 0,0005 0,0004 0,0005 0,0004 0,0005 0,0004 0,0005 0,0004 0,0005 0,0004 0,0005 0,0004 0,0005 0,0004 0,0005 0,0004 0,0005 0,000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0,0000 0,0001 0,0001 0,0002 0,0003 0,0005 0,0012 0,0025 0,0043 0,0070 0,0111 0,0172 0,0254 0,0043 0,0070 0,0111 0,0172 0,0254 0,0609 0,0918 0,1382 0,2077 0,3115 0,4665 0,5974 1,0401 1,5460 2,2870 3,3600 4,8875	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0,0000 0,0000 0,0000 0,0001 0,0002 0,0003 0,0002 0,0003 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0171 0,0250 0,0399 0,0604 0,0911 0,2050 0,3090 0,4527 0,2650 0,3090 0,4527 1,0315 1,5334 2,2584 3,3327 4,8480	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
0,0000 0,0000 0,0001 0,0001 0,0002 0,0003 0,0003 0,0003 0,0013 0,0025 0,0043 0,0013 0,0013 0,0025 0,0043 0,0013 0,0014 0,0174 0,0174 0,0174 0,0174 0,0174 0,0174 0,0174 0,0125 0,0014 0,0013 0,0013 0,0013 0,0003 0,0012 0,0012 0,0012 0,0014 0,0012 0,0014 0,0012 0,0014 0,0025 0,0014 0,0012 0,0014 0,0025 0,0043 0,003 0,0012 0,003 0,003 0,0012 0,003 0,0014 0,0025 0,0043 0,003 0,0014 0,0025 0,0043 0,003 0,0014 0,0025 0,0043 0,003 0,0014 0,0025 0,0043 0,003 0,0014 0,003 0,003 0,003 0,003 0,003 0,0043 0,003 0,0043 0,003 0,003 0,003 0,003 0,0040 0,003 0,003 0,003 0,003 0,005 0,0040 0,003 0,003 0,003 0,003 0,005 0,00000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0,0000 0,0000 0,0001 0,0002 0,0003 0,0005 0,0012 0,0025 0,0043 0,0070 0,0111 0,0172 0,0254 0,0402 0,0609 0,0918 0,1382 0,2677 0,3115 0,4665 0,6974 1,5460 2,2870 3,3600 4,8875 7,0091	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0,0000 0,0000 0,0000 0,0001 0,0002 0,0003 0,0002 0,0003 0,0002 0,0002 0,0003 0,0002 0,0003 0,0002 0,0003 0,0002 0,0003 0,0002 0,0003 0,0003 0,0003 0,0000 0,0002 0,0000 0,0002 0,000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0000 0,0000 0,0001 0,0001 0,0002 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0001 0,0011 0,0025 0,00071 0,00112 0,0071 0,0071 0,0012 0,0071 0,0012 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0001 0,0002 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0002 0,0001 0,0002 0,0003 0,0051 0,0054 0,0030 0,003 0,0030 0,003 0,0000 0,000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0000 0,0001 0,0001 0,0002 0,0003 0,0005 0,0012 0,0025 0,0043 0,0070 0,0111 0,0172 0,0254 0,0402 0,0609 0,0918 0,1382 0,2077 0,3115 0,4665 0,6974 1,0401 1,5460 2,2870 3,3600 4,8876 7,0091 9,8520	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0,0000 0,0000 0,0000 0,0001 0,0002 0,0003 0,0003 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0005 0,0000 0,0005 0,0000 0,0002 0,0000 0,0002 0,000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0000 0,0000 0,0001 0,0001 0,0002 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0013 0,0025 0,0013 0,0013 0,0013 0,0013 0,0013 0,0013 0,0013 0,0013 0,0013 0,0003 0,0013 0,0000 0,000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0,0000 0,0001 0,0001 0,0002 0,0003 0,0006 0,0012 0,0025 0,0043 0,0070 0,0111 0,0172 0,0254 0,0043 0,0070 0,0111 0,0172 0,0254 0,0402 0,0609 0,0918 0,1382 0,2077 0,3115 0,4665 0,6974 1,0401 1,5460 2,2870 3,3600 4,8875 7,0091 9,8520 13,4737	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0,0000 0,0000 0,0000 0,0001 0,0002 0,0003 0,0002 0,0003 0,0002 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0000 0,0003 0,000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
0,0000 0,0000 0,0001 0,0001 0,0002 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0001 0,0005 0,0001 0,0005 0,0001 0,0001 0,0005 0,0001 0,0003 0,000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0000 0,0001 0,0001 0,0002 0,0003 0,0005 0,0012 0,0025 0,0043 0,0070 0,0111 0,0172 0,0254 0,0402 0,0609 0,0918 0,1382 0,2077 0,3115 0,4665 0,6974 1,0401 1,5460 2,2870 3,3600 4,8876 7,0091 9,8520	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0,0000 0,0000 0,0000 0,0001 0,0002 0,0003 0,0003 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0005 0,0000 0,0005 0,0000 0,0002 0,0000 0,0002 0,000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0000 0,0000 0,0001 0,0001 0,0002 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0013 0,0025 0,0013 0,0013 0,0013 0,0013 0,0013 0,0013 0,0013 0,0013 0,0013 0,0003 0,0013 0,0000 0,000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0,0000 0,0001 0,0001 0,0002 0,0003 0,0006 0,0012 0,0025 0,0043 0,0070 0,0111 0,0172 0,0254 0,0043 0,0070 0,0111 0,0172 0,0254 0,0402 0,0609 0,0918 0,1382 0,2077 0,3115 0,4665 0,6974 1,0401 1,5460 2,2870 3,3600 4,8875 7,0091 9,8520 13,4737	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0,0000 0,0000 0,0000 0,0001 0,0002 0,0003 0,0002 0,0003 0,0002 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0000 0,0003 0,000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
0,0000 0,0000 0,0001 0,0001 0,0002 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0001 0,0005 0,0001 0,0005 0,0001 0,0005 0,0001 0,0005 0,0001 0,0005 0,0001 0,0002 0,0003 0,000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0,0000 0,0001 0,0001 0,0002 0,0003 0,0005 0,0012 0,0025 0,0043 0,0070 0,0111 0,0172 0,0254 0,0402 0,0609 0,0918 0,1382 0,2077 0,3115 0,4665 0,6974 1,0401 1,5460 2,2870 3,3600 4,8876 7,0091 9,8520 13,4737 17,7740 22,4149	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0,0000 0,0000 0,0000 0,0001 0,0002 0,0003 0,0002 0,0003 0,0002 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0005 0,0005 0,0005 0,0005 0,0003 0,0004 0,0004 0,0004 0,0004 0,0004 0,0005 0,005 0,00000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0000 0,0000 0,0001 0,0001 0,0002 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0001 0,00112 0,0071 0,0112 0,0071 0,0112 0,0071 0,0112 0,0071 0,00614 0,0026 0,0112 0,00614 0,0026 0,0112 0,00614 0,0026 0,0013 0,0000 0,000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0,0000 0,0001 0,0001 0,0002 0,0003 0,0002 0,0012 0,0025 0,0012 0,0025 0,0013 0,0012 0,0025 0,0013 0,0012 0,0025 0,0013 0,0013 0,0010 0,0111 0,0172 0,0254 0,0402 0,0402 0,0402 0,0402 0,0402 0,0402 0,0403 0,0403 0,0403 0,0403 0,0403 0,0403 0,0005 0,0012 0,0005 0,0012 0,0005 0,0005 0,0012 0,0025 0,0005 0,0012 0,0025 0,0012 0,0025 0,0012 0,0025 0,0012 0,0025 0,0012 0,0025 0,0012 0,0025 0,0012 0,0025 0,0012 0,0025 0,0012 0,0025 0,0012 0,0025 0,0012 0,0025 0,0012 0,0025 0,0012 0,0025 0,0012 0,0025 0,0012 0,0025 0,0012 0,0025 0,0012 0,0025 0,0012 0,0025 0,0012 0,0025 0,0018 0,0172 0,0255 0,0018 0,0175 0,4665 0,5974 1,5460 2,2870 0,33600 4,8876 7,0091 1,34737 1,7740 1,34737 1,7740 1,34737 1,7740 1,34737 1,7740 1,34737 1,7740 1,34737 1,7740 1,34737 1,7740 1,34737 1,7740 1,34737 1,7740 1,34737 1,7740 1,34737 1,7740 1,34737 1,7740 1,34737 1,3473	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0,0000 0,0000 0,0000 0,0001 0,0002 0,0003 0,0002 0,000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
0,0000 0,0000 0,0001 0,0001 0,0002 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0001 0,0011 0,0012 0,0011 0,0017 0,0017 0,0017 0,0017 0,0017 0,0017 0,0017 0,0013 0,0004 0,0005 0,0004 0,0005 0,0004 0,0005 0,000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0,0000 0,0000 0,0001 0,0002 0,0003 0,0005 0,0012 0,0025 0,0012 0,0025 0,0013 0,0070 0,0111 0,0172 0,0254 0,0043 0,0070 0,0111 0,0172 0,0254 0,0609 0,0918 0,1382 0,2077 0,3115 0,4665 0,6974 1,0401 1,5460 2,2870 3,3600 4,8875 7,0091 9,8520 13,4737 17,7740 22,8479 3,3893	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0,0000 0,0000 0,0000 0,0001 0,0002 0,0003 0,0002 0,0003 0,0002 0,0004 0,0003 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0003 0,0005 0,0003 0,0005 0,0003 0,0005 0,0003 0,0005 0,0003 0,0005 0,0003 0,0005 0,0050 0,00000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
0,0000 0,0000 0,0001 0,0001 0,0002 0,0003 0,0003 0,0003 0,0003 0,0004 0,0013 0,0025 0,0001 0,0012 0,0071 0,0112 0,0071 0,0112 0,0071 0,0071 0,0025 0,0071 0,0025 0,0071 0,0025 0,0025 0,0025 0,0025 0,0025 0,0025 0,0025 0,0025 0,0025 0,0001 0,0003 0,000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0,0000 0,0001 0,0001 0,0002 0,0003 0,0005 0,0012 0,0025 0,0043 0,0070 0,0111 0,0172 0,0254 0,0040 0,0070 0,0111 0,0172 0,0254 0,0402 0,0609 0,0918 0,1382 0,2077 0,3115 0,4665 0,65974 1,0401 1,5460 2,2870 3,3600 4,8876 7,0091 9,8520 13,4737 17,7740 22,4149 26,8275 30,3893 32,7190	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0,0000 0,0000 0,0000 0,0001 0,0002 0,0005 0,0012 0,0024 0,0024 0,0024 0,0024 0,0024 0,0025 0,0005 0,0110 0,0252 0,0399 0,0504 0,0252 0,0399 0,0504 0,0399 0,0504 0,0391 0,1371 0,2060 0,0391 0,4527 0,6517 1,0315 1,5334 2,2584 3,3327 4,8480 3,3327 1,5331 2,2584 3,3327 1,7531 2,2585 9,7727 1,3555 9,7727 1,3555 9,7727 1,3555 9,7727 1,3555 9,7727 1,3555 9,7727 1,3555 9,7727 1,3555 9,7727 1,3555 9,7727 1,3555 9,7727 1,3555 9,7727 1,3555 9,7727 1,3555 9,7727 1,3555 9,7727 1,3555 9,7727 1,3555 9,7727 1,3555 9,7727 1,3555 9,7727 1,3555 9,7727 1,3555 1,5351 2,2585 1,5351 2,2585 1,5351 2,2585 1,5351 2,2585 1,5351 2,2585 1,5351 2,2585 1,5351 2,2585 1,5351 2,2585 1,5351 2,2585 1,5351 2,2585 1,5351 2,555 1,5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
0,0000 0,0000 0,0001 0,0001 0,0002 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0001 0,0011 0,0012 0,0011 0,0017 0,0017 0,0017 0,0017 0,0017 0,0017 0,0017 0,0013 0,0004 0,0005 0,0004 0,0005 0,0004 0,0005 0,000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0,0000 0,0000 0,0001 0,0002 0,0003 0,0005 0,0012 0,0025 0,0012 0,0025 0,0013 0,0070 0,0111 0,0172 0,0254 0,0043 0,0070 0,0111 0,0172 0,0254 0,0609 0,0918 0,1382 0,2077 0,3115 0,4665 0,6974 1,0401 1,5460 2,2870 3,3600 4,8875 7,0091 9,8520 13,4737 17,7740 22,8479 3,3893	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0,0000 0,0000 0,0000 0,0001 0,0002 0,0003 0,0002 0,0003 0,0002 0,0004 0,0003 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0003 0,0005 0,0003 0,0005 0,0003 0,0005 0,0003 0,0005 0,0003 0,0005 0,0003 0,0005 0,0050 0,00000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
0,0000 0,0000 0,0001 0,0001 0,0002 0,0003 0,0003 0,0003 0,0003 0,0004 0,0013 0,0025 0,0001 0,0012 0,0071 0,0112 0,0071 0,0112 0,0071 0,0071 0,0025 0,0071 0,0025 0,0071 0,0025 0,0025 0,0025 0,0025 0,0025 0,0025 0,0025 0,0025 0,0025 0,0001 0,0003 0,000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0,0000 0,0001 0,0001 0,0002 0,0003 0,0005 0,0012 0,0025 0,0043 0,0070 0,0111 0,0172 0,0254 0,0040 0,0070 0,0111 0,0172 0,0254 0,0402 0,0609 0,0918 0,1382 0,2077 0,3115 0,4665 0,65974 1,0401 1,5460 2,2870 3,3600 4,8876 7,0091 9,8520 13,4737 17,7740 22,4149 26,8275 30,3893 32,7190	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0,0000 0,0000 0,0000 0,0001 0,0002 0,0003 0,0002 0,0000 0,0002 0,0000 0,0002 0,0000 0,0002 0,0000 0,0002 0,0000 0,0002 0,000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
0,0000 0,0001 0,0002 0,0003 0,0005 0,0025 0,0043 0,0071 0,0012 0,0012 0,0014 0,0071 0,0174 0,0265 0,0614 0,0265 0,0614 0,0265 0,0614 0,0265 0,03141 0,2094 0,3141 0,4705 0,2094 0,3141 1,0488 1,5589 2,3662 3,3882 4,9285 7,0675 9,9338 1,35848 17,9193 22,5595 9,9338 13,5848 17,9193 22,5559 9,9338	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0,0000 0,0000 0,0001 0,0002 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0012 0,0012 0,0025 0,0013 0,0013 0,0013 0,0013 0,0013 0,0013 0,0013 0,0013 0,0013 0,0013 0,0013 0,0013 0,0013 0,0003 0,0013 0,0003 0,0011 0,0172 0,0025 0,0003 0,0013 0,0003 0,0013 0,0003 0,0013 0,0005 0,0013 0,0012 0,0055 0,00918 0,00918 0,2077 0,3115 0,4655 0,65974 1,0401 1,5460 2,2870 3,3560 0 4,8875 7,0091 9,8520 1,34737 1,7740 2,5414 9,8520 1,34737 1,7740 2,5414 9,8520 1,34737 1,7740 2,5414 9,8520 1,34737 1,7740 2,5415 2,5453 1,7449 2,5455 3,03893 3,3580 3,34737 1,7740 2,5414 9,3553 0,3853 3,3580 3,34737 1,7740 2,5414 9,3553 0,3853 3,3580 3,414340,4143	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0,0000 0,0000 0,0000 0,0001 0,0002 0,0003 0,0003 0,0002 0,0004 0,000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
0,0000 0,0000 0,0001 0,0001 0,0002 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0013 0,0025 0,0011 0,0112 0,0174 0,0256 0,0011 0,0174 0,0256 0,0614 0,0256 0,0614 0,0256 0,0614 0,0256 0,0614 0,0266 0,0614 0,0266 0,03141 0,0265 0,2094 0,3141 0,4285 1,5889 2,3062 2,3062 2,30675 9,9338 1,5889 2,3682 4,9285 7,0675 9,9338 1,5889 2,3662 0,325599 2,7,0408 3,0,6250 3,2,9571 3,4,105 3,4,1195	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0000 0,0000 0,0001 0,0002 0,0003 0,0005 0,0012 0,0025 0,0043 0,0070 0,0111 0,0172 0,0254 0,0043 0,0070 0,0111 0,0172 0,0254 0,0609 0,0918 0,1382 0,2674 0,3115 0,4665 0,5974 1,0401 1,5460 2,2870 3,3600 4,8875 7,0091 3,3580 34,1434 33,8986	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0000 0,0000 0,0000 0,0001 0,0002 0,0003 0,0002 0,0003 0,0004 0,0012 0,0024 0,0004 0,0005 0,0059 0,0059 0,0050 0,0050 0,0050 0,0059 0,00500000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0000 0,0000 0,0001 0,0001 0,0002 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0003 0,0004 0,0005 0,0004 0,0005 0,00071 0,0112 0,0174 0,0025 0,0005 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0000 0,0001 0,0001 0,0002 0,0003 0,0003 0,0005 0,0012 0,0025 0,0043 0,00172 0,0025 0,0043 0,00172 0,0254 0,0402 0,0609 0,0918 0,1382 0,2077 0,3115 0,4665 0,6974 1,0401 1,5460 2,2870 3,3600 4,8876 7,0091 9,8520 13,4737 17,7740 22,4149 26,8275 30,3893 32,7190 33,8580 34,1434 33,3886 33,2405	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0000 0,0000 0,0000 0,0001 0,0002 0,0003 0,0002 0,0003 0,0002 0,0004 0,0005 0,0004 0,0005 0,0005 0,0005 0,000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0000 0,0000 0,0001 0,0001 0,0002 0,0003 0,0013 0,0025 0,0043 0,0012 0,0013 0,0025 0,0043 0,00112 0,0071 0,0112 0,0071 0,0112 0,0074 0,0266 0,0405 0,0405 0,0405 0,0405 0,0405 0,0266 0,0405 0,0054 0,0266 0,0405 0,7033 1,0488 1,5588 2,3662 2,3588 2,2595 27,0408 30,2560 22,5550 27,0408 30,2560 32,9671 32,9671 32,9670 32,9670 32,9670 32,9670 32,9670 32,9670 32,9670 32,9670 33,4349 32,4478 32,447	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0000 0,0001 0,0001 0,0002 0,0003 0,0002 0,0003 0,0002 0,0012 0,0025 0,0013 0,0012 0,0025 0,0013 0,0012 0,0025 0,0013 0,0013 0,0012 0,0025 0,0013 0,0012 0,0025 0,0013 0,0012 0,0025 0,0013 0,0012 0,0025 0,0013 0,0012 0,0025 0,0013 0,0005 0,0012 0,0005 0,0012 0,0005 0,0012 0,0005 0,0012 0,0005 0,0012 0,0005 0,0012 0,0025 0,0018 0,0172 0,0255 0,0018 0,0172 0,2077 0,3115 0,4665 0,5974 1,5460 2,2870 3,3600 4,8876 7,0091 1,34737 17,7740 2,24149 2,5825 3,0,8895 3,2,7190 3,3580 3,4,1434 3,3986 3,3,2405 3,2,7190 3,3,580 3,4,1434 3,3986 3,3,2405 3,2,27190 3,3,580 3,4,1434 3,3,986 3,3,2405 3,2,27190 3,3,580 3,4,1434 3,3,986 3,3,2405 3,2,27190 3,3,580 3,4,245 3,2,27190 3,3,580 3,4,245 3,2,27190 3,3,580 3,4,245 3,2,27190 3,3,580 3,4,245 3,2,27190 3,3,580 3,4,245 3,2,27190 3,3,580 3,3,2405 3,2,2405 3,2,2405 3,2,2405 3,2,2405 3,3,2405 3,3,2405 3,2,2405 3,2,2405 3,2,2405 3,2,2405 3,3,2405 3,2,240	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0000 0,0000 0,0000 0,0001 0,0002 0,0003 0,0002 0,0003 0,0002 0,000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
0,0000 0,0000 0,0001 0,0001 0,0002 0,0003 0,0003 0,0003 0,0003 0,0013 0,0025 0,0003 0,0013 0,0025 0,0001 0,0012 0,0071 0,0112 0,0174 0,0256 0,0012 0,0025 0,0013 0,0025 0,0013 0,0025 0,0013 0,0025 0,0013 0,0025 0,0013 0,0025 0,0013 0,0025 0,0013 0,0004 0,0003 0,0003 0,0003 0,0004 0,0003 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0003 0,0004 0,0004 0,0003 0,0003 0,0004 0,0003 0,0003 0,0003 0,0004 0,0005 0,0003 0,0005 0,	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0000 0,0001 0,0001 0,0002 0,0003 0,0003 0,0005 0,0012 0,0025 0,0043 0,00172 0,0025 0,0043 0,00172 0,0254 0,0402 0,0609 0,0918 0,1382 0,2077 0,3115 0,4665 0,6974 1,0401 1,5460 2,2870 3,3600 4,8876 7,0091 9,8520 13,4737 17,7740 22,4149 26,8275 30,3893 32,7190 33,8580 34,1434 33,3886 33,2405	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0000 0,0000 0,0000 0,0001 0,0002 0,0003 0,0002 0,0003 0,0002 0,0004 0,0005 0,0004 0,0005 0,0005 0,000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 1100 M

## Appendix J: Data influence of elastic moduli Gesso on bow deformation

Appendix K: Data influence of elastic moduli Gesso on cup deformat	tion
Displ [mm]         Time [sec.]         Time [h.]         E = 760 Mpa         Displ [mm]         Time [sec.]         Time [h.]         E = 500 Mpa         Displ [mm]         Time [sec.]         Time [sec.]         Time [h.]         E = 600 Mpa         Displ [mm]         Time [sec.]         Tim	600 Mpa

	Time [sec			Mpa Displ [i			h.] E = 500 M				E = 600 Mp
0,0000 0,0000	0	0 0		0,00		0 0		0,0000 0,0000	0	0	
0,0000	0	0		0,00		0		0,0000	0	0	
0,0000	0	o		0,00		0		0,0000	0	ō	
0,0000	0	0		0,00		0		0,0000	0	0	
0,0000	0	0				0			0	0	
-				0,00				0,0000			
0,0001	0	0		0,00		0		0,0001	0	0	
0,0001	0	0		0,00		0		0,0001	0	0	
0,0003	0	0		0,00		0		0,0003	0	0	
0,0004	0	0		0,00		0		0,0004	0	0	
0,0007	0	0		0,00	07 0	0		0,0007	0	0	
0,0011	0	0		0,00	1 0	0		0,0011	0	0	
0,0018	0	0		0,00	L8 0	0		0,0018	0	0	
0,0027	1	0		0,00	27 1	0		0,0027	1	0	
0,0042	1	0		0,00	11 1	0		0,0041	1	0	
0,0063	2	0		0,00	52 2	0		0,0062	2	0	
0,0095	2	0	Cup	0,00	24 2	0	Cup	0,0094	2	0	Cup
0,0143	4	0		0,01		0		0,0142	4	0	<u> </u>
0,0215	6	0		0,02		0		0,0213	6	0	
0,0322	8	õ		0,03		ō		0,0320	8	ō	
0,0483	12	ő		0,04		ő		0,0479	12	õ	
	19	ő				ő			19	ő	
0,0722				0,07				0,0715			
0,1076	28	0		0,10		0		0,1067	28	0	
0,1599	42	0		0,15		0		0,1586	42	0	
0,2365	63	0		0,23		0		0,2345	63	0	
0,3472	95	0		0,34		0		0,3443	95	0	
0,5047	142	0		0,49	75 142	0		0,5004	142	0	
0,7230	213	0		0,71	24 213	0		0,7167	213	0	
1,0147	319	0		0,99	3 319	0		1,0055	319	0	
1,3848	479	0		1,36		0		1,3717	479	0	
, 1,8218	718	0		1,79		0		1,8037	718	0	
2,2901	1077	0		2,24		0		2,2656	1077	0	
2,7315	1616	0		2,67		0		2,6994	1616	0	
3,0843	2424	1		3,01		1		3,0440	2424	1	
3,3140	3636	1		3,23		1		3,2649	3636	1	
3,4296	5454	2		-		2		3,3708	5454	2	
		2		3,33		2		-		2	
3,4684	8181			3,35				3,3981	8181		
3,4648	12272	3		3,32		3		3,3800	12272	3	
3,4325	18408	5		3,25		5		3,3293	18408	5	
3,3681	27612	8		3,15		8		3,2423	27612	8	
								3,1097	41418		
3,2624	41418	12		3,00		12				12	
3,1109	62127	17		2,80	54 62127	17		2,9281	62127	17	
					54 62127						
3,1109 2,9569	62127 86400	17 24	Е = 900 Мра	2,80 2,60	54 62127 78 85400	17 24	E = 1000 MDa	2,9281 2,7479	62127 86400	17 24	E = 1100 M
3,1109 2,9569 Displ [mm]	62127	17 24	E=900 Mpa	2,80 2,60 Displ [mm]	54 62127 78 85400	17 24	E = 1000 Mpa	2,9281 2,7479 Displ [mm]	62127	17 24 Time [h.]	E = 1100 M
3,1109 2,9569 Displ [mm] 0,0000	62127 85400 Time [sec.] 0	17 24 Time [h.] 0	E = 900 Mpa	2,80 2,60 Displ [mm] 0,0000	62127 78 85400 Time [sec.] 0	17 24 Time [h.] 0	E = 1000 Mpa	2,9281 2,7479 Displ [mm] 0,0000	62127 86400 Time [sec.] 0	17 24 Time [h.] 0	E = 1100 M
3,1109 2,9569 Displ [mm] 0,0000 0,0000	62127 85400 Time [sec.] 0 0	17 24 Time [h.] 0 0	E = 900 Mpa	2,80 2,60 Displ [mm] 0,0000 0,0000	54 62127 78 86400 Time [sec.] 0 0	17 24 Time [h.] 0 0	E = 1000 Mpa	2,9281 2,7479 Displ [mm] 0,0000 0,0000	62127 86400 Time [sec.] 0 0	17 24 Time [h.] 0 0	E = 1100 M
3,1109 2,9569 Displ [mm] 0,0000 0,0000 0,0000	62127 85400 Time [sec.] 0 0 0 0	17 24 Time [h.] 0 0 0	E=900 Mpa	2,80 2,60 Displ [mm] 0,0000 0,0000 0,0000	54 62127 78 85400 Time [sec.] 0 0 0 0	17 24 Time [h.] 0 0 0	E = 1000 Mpa	2,9281 2,7479 Displ [mm] 0,0000 0,0000 0,0000	62127 86400 Time [sec.] 0 0 0	17 24 Time [h.] 0 0 0	E = 1100 M
3,1109 2,9569 Displ [mm] 0,0000 0,0000 0,0000 0,0000	62127 85400 Time [sec.] 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0	E=900 Mpa	2,80 2,60 Displ [mm] 0,0000 0,0000 0,0000 0,0000	54 62127 78 85400 Time [sec.] 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0	E = 1000 Mpa	2,9281 2,7479 Displ [mm] 0,0000 0,0000 0,0000 0,0000	62127 85400 Time [sec.] 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0	E = 1100 M
3,1109 2,9569 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000	62127 85400 Time [sec.] 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0	E = 900 Mpa	2,80 2,60 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000	54 62127 78 85400 Time [sec.] 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0	E = 1000 Mpa	2,9281 2,7479 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000	62127 85400 Time [sec.] 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0	E = 1100 M
3,1109 2,9569 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000	62127 86400 Time [sec.] 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0	E = 900 Mpa	2,80 2,60 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000	54 62127 78 85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0	E = 1000 Mpa	2,9281 2,7479 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000	62127 86400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0	E = 1100 M
3,1109 2,9569 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000	62127 85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0	E = 900 Mpa	2,80 2,50 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000	54 62127 78 85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0	E = 1000 Mpa	2,9281 2,7479 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000	62127 85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0	E = 1100 M
3,1109 2,9569 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001	62127 86400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E=900 Mpa	2,80 2,60 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000	54 52127 78 85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 1000 Mpa	2,9281 2,7479 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001	52127 85400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 1100 M
3,1109 2,9569 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0003	62127 86400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 900 Mpa	2,80 2,50 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000	54 52127 78 85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 1000 Mpa	2,9281 2,7479 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001	62127 85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 1100 M
3,1109 2,9569 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0003 0,0004	62127 86400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 900 Mpa	2,80 2,50 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0003 0,0004	54 52127 78 85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 1000 Mpa	2,9281 2,7479 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0003 0,0004	52127 85400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 1100 N
3,1109 2,9569 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0003 0,0004 0,0007	62127 86400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [b.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 900 Mpa	2,80 2,50 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0003 0,0004 0,0007	54 62127 78 85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<u>E = 1000 Mpa</u>	2,9281 2,7479 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0003 0,0004 0,0007	52127 85400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 1100 W
3,1109 2,9569 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0004 0,0007 0,0007	62127 86400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 900 Mpa	2,80 2,50 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001	54 52127 78 85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<u>E = 1000 Mpa</u>	2,9281 2,7479 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0004 0,0007 0,0012	62127 85400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 1100 M
3,1109 2,9569 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0003 0,0004 0,0004 0,0004 0,00012 0,0018	62127 86400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E=900 Mpa	2,80 2,50 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0003 0,0004 0,0007 0,0012 0,0018	54 62127 78 85400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 1000 Mpa	2,9281 2,7479 Displ[mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0003 0,0004 0,0007 0,0012 0,0018	62127 85400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 1100 M
3,1109 2,9569 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0002 0,0012 0,0028	62127 85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E=900 Mpa	2,80 2,50 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0002 0,0002	54 62127 78 85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 1000 Mpa	2,9281 2,7479 Disp[[mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0003 0,0004 0,0007 0,0012 0,0018	62127 85400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 1100 M
3,1109 2,9559 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0003 0,0001 0,0002 0,0018 0,002	62127 86400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E=900 Mpa	2,80 2,50 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0003 0,0002 0,0012 0,0018 0,0028	54 62127 78 85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<u>E = 1000 Mpa</u>	2,9281 2,7479 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0002 0,0004 0,0002 0,0004	62127 85400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 1100 M
3,1109 2,9559 Displ (mm) 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0012 0,0018 0,0018 0,0028	62127 85400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,80 2,50 Displ[mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0003 0,0004 0,0004 0,0007 0,0018 0,0002 0,0018 0,0008 0,0004	54         62127           8         66400           Time [sec.]         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           1         1           2         1	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,9281 2,7479 Displ[mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0002 0,0012 0,0018 0,0028 0,0042	62127 85400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,1109 2,9559 Disp[[mm]] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0003 0,0004 0,0002 0,0018 0,0028 0,0028 0,0005	62127 85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [b.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E=900 Mpa	2,80 2,50 0,5000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0004 0,0002 0,0004 0,0005	54         62127           8         85400           Time [sec.]         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           1         1           2         2	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 1000 Mpa	2,9281 2,7479 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0004 0,0004 0,0004 0,0012 0,0018 0,0028 0,0042 0,0064	62127 85400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 1100 M
3,1109 2,9559 Disp[[mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0002 0,0012 0,0012 0,0012 0,0028 0,0028 0,0028 0,0029 0,0028	62127 85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,80 2,50 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0004 0,0004 0,0002 0,0004 0,0005 0,0004	54         62127           78         86400           Time [sec.]         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           1         1           2         2           4         1	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		2,9281 2,7479 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0003 0,0004 0,0012 0,0018 0,0028 0,0028 0,0028 0,0028 0,0024 0,0005 0,0145	52127 85400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,1109 2,9569 Displ [mm] 0,000000	62127 86400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,80 2,50 0,500 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0002 0,0002 0,0005 0,005 0,0127	4         62127           78         86400           Time [sec.]         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         1           1         2           2         4           6         5	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,9281 2,7479 Disp[[mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0002 0,0012 0,0012 0,0012 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0005 0,0014 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0002 0,0001 0,0001 0,0002 0,0001 0,0002 0,0001 0,0002 0,00000000	62127 86400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,1109 2,9559 Disp[[mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0002 0,0012 0,0012 0,0012 0,0028 0,0028 0,0028 0,0029 0,0028	62127 85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,80 2,50 0,5000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0000 0,0003 0,0003 0,0003 0,0005 0,005 0,00050	54         62127           78         86400           Time [sec.]         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           1         1           2         2           4         1	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		2,9281 2,7479 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0003 0,0004 0,0012 0,0018 0,0028 0,0028 0,0028 0,0028 0,0024 0,0005 0,0145	52127 85400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,1109 2,9559 Disp1 [mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0018 0,0018 0,0018 0,0025 0,0014	62127 86400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,80 2,50 0,500 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0002 0,0002 0,0005 0,005 0,0127	4         62127           78         86400           Time [sec.]         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         1           1         2           2         4           6         5	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,9281 2,7479 Disp[[mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0002 0,0012 0,0012 0,0012 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0005 0,0014 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0002 0,0001 0,0001 0,0002 0,0001 0,0002 0,0001 0,0002 0,00000000	62127 86400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,1109 2,9559 Disp[mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0003 0,0004 0,0018 0,0018 0,0028 0,0018 0,0028 0,0028 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,000000	62127 85400 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,80 2,50 0,5000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0000 0,0003 0,0003 0,0003 0,0003 0,0003 0,0005 0,005 0,00050	4         62127           8         86400           Time [sec.]         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           1         1           2         4           5         8	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		2,9281 2,7479 Displ[mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0004 0,0004 0,0004 0,0018 0,0018 0,0018 0,0018 0,0018 0,0028 0,0042 0,0054 0,0042	62127 85400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,1109 2,9559 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0002 0,0004 0,0007 0,0018 0,0004 0,0018 0,0004 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0019 0,000000	62127 85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,80 2,50 0,500 0,000000	54         62127           8         66400           Time [sec.]         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           1         1           2         2           4         5           8         12	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		2,9281 2,7479 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0004 0,0004 0,0004 0,0004 0,0005 0,0048 0,0048 0,0048 0,0048 0,0048 0,0048 0,0049 0,0145	52127 85400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,1109 2,9559 Disp[[mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0002 0,0004 0,0002 0,0012 0,0012 0,0012 0,0012 0,0012 0,0025	62127 85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,80 2,50 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0004 0,0004 0,0005 0,0004 0,0005 0,0004 0,0005 0,0004 0,0005 0,005 0,000500000000	54         62127           8         62127           7         86400           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           1         1           2         4           5         8           12         19	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,9281 2,7479 Displ[mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0002 0,0012 0,0018 0,0002 0,0042 0,0000000000	52127 85400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,1109 2,9559 Disp[[mm]] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0012 0,0010 0,0002 0,0005 0,0005 0,005 0,0000	62127 85400 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,80 2,50 0,500 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0003 0,0004 0,0003 0,0004 0,0004 0,0004 0,0004 0,0004 0,0005 0,0145 0,025 0,0448 0,025 0,0448 0,025	4         62127           8         66400           Time [sec.]         0           0         0           1         1           2         4           5         8           12         19           28         19	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		2,9281 2,7479 Displ[mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0002 0,0004 0,0004 0,0004 0,0004 0,0004 0,0005 0,0015 0,00218 0,00218 0,0022 0,0022 0,0020	52127 85400 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,1109 2,9569 Disp[[mm]] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0002 0,0004 0,0002 0,0004 0,0002 0,0004 0,0002 0,0004 0,0002 0,0004 0,0002 0,0004 0,0002 0,0000 0,0002 0,0003 0,0002 0,0003 0,0002 0,0003 0,0005 0,000	62127 85400 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,80 2,50 0 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0000 0,0003 0,0002 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,000000	4         62127           8         85400           Time [sec.]         0           0         0           1         1           2         2           4         5           8         12           19         28           42         2	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		2,9281 2,7479 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0004 0,0004 0,0004 0,0004 0,0004 0,0012 0,0012 0,0012 0,0012 0,0004 0,0028 0,0042 0,0056 0,0145 0,0218 0,0327 0,0490 0,0732 0,1092 0,1623	52127 85400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,1109 2,9559 Displ [mm] 0,0000 0,0004 0,0005 0,000	62127 85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,80 2,50 0,500 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,000000	54         62127           8         62127           8         6200           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           1         1           2         2           4         6           8         12           19         28           42         63	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		2,9281 2,7479 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0003 0,0004 0,0007 0,0012 0,0012 0,0018 0,0004 0,0005 0,0012 0,0056 0,0045 0,0045 0,0045 0,0028 0,0045 0,0028 0,0045 0,0027 0,0490 0,0732 0,0490 0,0732 0,1523 0,2401	52127 85400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,1109 2,9559 Disp[[mm]] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0002 0,0003 0,0004 0,0018 0,0005 0,0018 0,0018 0,0028 0,0028 0,0028 0,0028 0,0028 0,0028 0,0028 0,0028 0,0028 0,0028 0,0028 0,0028 0,0028 0,0028 0,0028 0,0028 0,0000 0,0003 0,0002 0,0003 0,0002 0,0003 0,0012 0,0000000000	62127 85400 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,80 2,50 0,500 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0004 0,0005 0,018 0,005 0,018 0,005 0,0145 0,025 0,0448 0,025 0,0157 0,0325 0,0488 0,0729 0,1688 0,1517 0,2351	4         62127           8         62127           8         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           1         1           2         2           4         6           8         12           19         28           42         3           95         5	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		2,9281 2,7479 Displ[mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0003 0,0001 0,0003 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0005 0,0015 0,0045 0,0045 0,0045 0,0045 0,0045 0,0045 0,0045 0,0045 0,0045 0,0045 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0002 0,00000000	62127 85400 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,1109 2,9559 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0005 0,0004 0,0004 0,0005 0,0004 0,0004 0,0005 0,0004 0,0004 0,0005 0,0004 0,0004 0,0005 0,0004 0,0005 0,0000 0,0002 0,000000	62127 85400 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,80 2,80 2,50 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0000 0,0002 0,0002 0,0005 0,0015 0,0025 0,0015 0,0025 0,0015 0,0025 0,0015 0,0005 0	4         62127           8         62127           8         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           1         1           2         4           5         8           12         2           4         5           8         12           19         28           42         63           95         142	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		2,9281 2,7479 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0004 0,0004 0,0004 0,0002 0,0004 0,0012 0,0004 0,0005 0,0012 0,0005 0,0012 0,0005 0,0012 0,0005 0,0012 0,0005 0,0012 0,0028 0,0000 0,0001 0,0001 0,0001 0,0002 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0055 0,000	52127 85400 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,1109 2,9559 Disp[mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0012 0,0018 0,0018 0,0018 0,0016 0,0018 0,0021 0,0018 0,0021 0,0000 0,0001 0,0001 0,0001 0,0002 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,000000	62127 86400 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,80 2,80 2,50 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0000 0,0002 0,0002 0,0005 0,0005 0,0025 0,0025 0,0055 0	4         62127           8         62127           8         600           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           1         1           2         2           4         5           8         12           19         28           42         63           95         142           23         319	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		2,9281 2,7479 Displ[mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0003 0,0004 0,0004 0,0018 0,0018 0,00145 0,00145 0,00145 0,00145 0,00145 0,00145 0,00145 0,01623 0,1623 0,1623 0,1623 0,1623 0,1623 0,2401 0,3526 0,512	62127 85400 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,1109 2,9559 Disp[[mm]] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0018 0,0012 0,0018 0,0016 0,0014 0,0015 0,0016 0,0016 0,0016 0,0016 0,0016 0,0016 0,0016 0,0016 0,0016 0,0016 0,0016 0,0016 0,0010 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0005 0,0012 0,0028 0,0008 0,0028 0,000800000000	62127 85400 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,80 2,60 2,50 0,0000 0,0000 0,0000 0,0000 0,0001 0,000000	4         62127           8         62127           8         0           0         0           1         1           2         4           63         3           95         142           13         3           319         479	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		2,9281 2,7479 Displ[mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0004 0,0007 0,0012 0,0018 0,0004 0,0018 0,0028 0,0042 0,0054 0,0042 0,0054 0,0042 0,0054 0,0042 0,0054 0,0028 0,0054 0,0028 0,0054 0,0028 0,0055 0,0145 0,0218 0,0095 0,0152 0,1523 0,1523 0,1525 0,5126 0,5126 0,7346 1,0315 1,4088	52127 85400 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,1109 2,9569 Disp[[mm]] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0000 0,0002 0,0002 0,0002 0,0002 0,0003 0,0002 0,0003 0,0002 0,0003 0,0003 0,0002 0,0003 0,0002 0,0003 0,0000 0,00000000	62127 85400 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,80 2,80 2,50 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0000 0,0003 0,0002 0,0005 0	4         62127           8         62127           8         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           1         1           2         2           4         6           8         12           19         28           42         63           95         142           213         319           479         718	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		2,9281 2,7479 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0004 0,0000 0,0001 0,0001 0,0002 0,0002 0,0002 0,0005 0,0002 0,0005 0,0002 0,0005 0,00	52127 85400 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,1109 2,9569 Disp[mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0003 0,0004 0,0003 0,0004 0,0001 0,0012 0,0018 0,0012 0,0018 0,0012 0,0018 0,0021 0,0018 0,0021 0,0018 0,0021 0,0023 0,0028 0,0020 0,0020 0,0020 0,0020 0,0020 0,0001 0,0001 0,0001 0,0002 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,00000 0,0000 0,0000 0,0000 0,0000 0,00000 0,00000 0,00000 0,000000	62127 85400 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,80 2,80 2,50 0,0000 0,0000 0,0000 0,0000 0,0001 0,0000 0,0002 0,0002 0,0002 0,0002 0,0002 0,0002 0,0022 0,0025 0,0055 0	4         62127           8         62127           8         6300           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           1         1           2         2           4         5           8         12           19         28           42         63           95         142           1319         319           479         718           1077         1077	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		2,9281 2,7479 Disp[[mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0003 0,0004 0,0007 0,0012 0,0012 0,0004 0,0004 0,0005 0,0012 0,0004 0,0004 0,0005 0,0012 0,0004 0,0005 0,0012 0,0004 0,0005 0,0012 0,0007 0,0007 0,0007 0,0007 0,0007 0,0007 0,0000 0,0007 0,0001 0,0002 0,0002 0,0002 0,0002 0,0002 0,0004 0,0003 0,0004 0,0004 0,0005 0,0015 0,0000000000	62127 86400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,1109 2,9559 Disp[[mm]] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0003 0,0000 0,0001 0,0002 0,0002 0,0002 0,0002 0,0004 0,0002 0,0004 0,0002 0,0005 0,0005 0,0005 0,0015 0,0024 0,0024 0,0024 0,0024 0,0024 0,0025 0,0024 0,0025 0,0055 0,000	62127 85400 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,80 2,80 2,50 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0003 0,0004 0,0003 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0005 0,0004 0,0004 0,0005 0,0004 0,0005 0,0004 0,0005 0,0004 0,0005 0,0005 0,0004 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,0005 0,000000	4         62127           8         62127           8         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           1         1           2         2           4         6           8         12           19         28           42         63           95         142           213         319           479         718           1077         1616	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		2,9281 2,7479 Displ[mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0000 0,0001 0,0002 0,0022 0,0025 0,0022 0,0025 0,0025 0,0025 0,0000 0,0020 0,000000	52127 85400 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,1109 2,9559 Disp[[mm]] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0000 0,0003 0,0002 0,0003 0,000000 0,00000000	62127 85400 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [b.] 0 0 0 0 0 0 0 0 0 0 0 0 0		2,80 2,80 2,50 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0000 0,0003 0,0002 0,0003 0,00000000	4         62127           8         66400           Time [sec.]         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           1         1           2         4           5         8           12         2           4         5           95         142           213         319           479         718           10777         1616           2424	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		2,9281 2,7479 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0004 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0002 0,0002 0,0002 0,0002 0,0005 0,0002 0,0005 0,0055 0,00	52127         85400           85400         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         1           1         2           2         4           6         8           12         19           28         42           63         95           142         213           319         479           718         1077           1615         2424	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,1109 2,9559 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0002 0,0004 0,0000 0,0002 0,00000 0,000000	62127 85400 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,80 2,60 2,50 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0000 0,0005 0,0005 0,012 0,0015 0,0005 0,	4         62127           8         62127           8         6300           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           11         2           2         4           5         8           12         19           28         42           63         95           142         213           319         479           718         1077           1615         2424           3636	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		2,9281 2,7479 Displ [mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0002 0,0002 0,0012 0,0012 0,0012 0,0012 0,0012 0,0012 0,0003 0,0004 0,0004 0,0005 0,0012 0,0005 0,0005 0,0012 0,0005 0,005 0,	52127 85400 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,1109 2,9559 Disp[[mm]] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0003 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0002 0,0002 0,0004 0,0002 0,0004 0,0002 0,0004 0,0002 0,0004 0,0005 0,0004 0,0025 0,0005 0,0025 0,00550 0,00550 0,00550 0,00550 0	62127 85400 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,80 2,80 2,50 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0003 0,0004 0,0003 0,0004 0,0002 0,0004 0,0004 0,0004 0,0005 0,0004 0,0005 0,0055 0	4         62127           8         62127           8         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           1         1           2         2           4         5           8         12           19         28           42         33           95         142           213         319           479         718           10777         1616           2424         3636           5454         5454	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		2,9281 2,7479 Displ[mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0002 0,0005 0,0002 0,0002 0,0005 0,0005 0,0002 0,0005 0,0000	62127           85400           11           2           2           4           6           8           12           19           28           42           63           95           142           213           319           479           718           10077           1616           2424           3636           5454 <td>17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td></td>	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,1109 2,9559 Disp[[mm]] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0000 0,0003 0,0002 0,0003 0,0004 0,0003 0,0000 0,000000 0,00000000	62127 85400 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,80 2,80 2,50 0,0000 0,0000 0,0000 0,0000 0,0001 0,000000	4         62127           8         62127           8         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           1         1           2         4           5         8           12         2           4         5           95         142           213         319           479         718           10777         1616           2424         3635           5454         8181	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		2,9281 2,7479 Displ[mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0004 0,0004 0,0004 0,0004 0,0004 0,0004 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0018 0,0028 0,0012 0,0019 0,0012 0,0019 0,0012 0,0028 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0002 0,0002 0,0002 0,0005 0,0002 0,0005 0,0028 0,0028 0,0028 0,0056 0,0052 0,000	52127         85400           85400         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         1           2         4           5         8           12         2           4         6           8         12           19         28           42         63           95         142           213         319           479         718           10777         1615           2424         3636           5454         8181	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,1109 2,9559 Disp[[mm]] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0002 0,0004 0,0002 0,0004 0,0002 0,0004 0,0002 0,0004 0,0002 0,0004 0,0004 0,0002 0,0004 0,0002 0,0004 0,0002 0,0004 0,0002 0,0004 0,0004 0,0002 0,0004 0,0004 0,0004 0,0000 0,0002 0,000000	62127 85400 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [b.] 0 0 0 0 0 0 0 0 0 0 0 0 0		2,80 2,80 2,50 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0000 0,000200 0,00000000	4         62127           8         66400           Time [sec.]         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           11         1           2         2           4         6           8         12           19         28           42         63           95         142           213         319           479         718           10077         1616           2424         3636           5454         8181           12272         9	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		2,9281 2,7479 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0004 0,0005 0,0004 0,0005 0,0004 0,0005 0,0005 0,0004 0,0005 0,	52127         85400           Time [sec.]         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           11         1           2         2           4         6           8         12           19         28           42         63           95         142           213         319           479         718           10077         1616           2424         3636           5454         8181           12272         213	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,1109 2,9559 Disp[Imm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0018 0,0003 0,0004 0,0018 0,0018 0,0018 0,0018 0,0018 0,0021 0,0018 0,0021 0,0018 0,0021 0,0022 0,0025 0,0022 0,0025 0,0022 0,0025 0,0000000000	62127 85400 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,80 2,80 2,50 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0002 0,0005 0,0012 0,005 0,	4         62127           8         62127           8         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           11         1           2         2           45         8           12         1           13         19           28         42           319         319           479         718           10777         1616           2424         3636           5454         8181           12722         18408	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		2,9281 2,7479 Displ[mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0003 0,0004 0,0007 0,0012 0,0012 0,0014 0,0007 0,0012 0,0014 0,0007 0,0012 0,0014 0,0007 0,0012 0,0014 0,0007 0,0012 0,0014 0,0007 0,0012 0,0012 0,0012 0,0012 0,0007 0,0012 0,0007 0,0012 0,0007 0,0012 0,0007 0,0012 0,0007 0,0012 0,0007 0,0012 0,0007 0,0012 0,0007 0,0012 0,0007 0,0012 0,0007 0,0012 0,0007 0,0012 0,0007 0,0012 0,0007 0,0007 0,0007 0,0007 0,0007 0,0007 0,0007 0,0007 0,0007 0,0007 0,0007 0,0007 0,0007 0,0007 0,0007 0,0001 0,0007 0,0002 0,0004 0,0004 0,0005 0,0004 0,0005 0,0004 0,0005 0,0000	62127           85400           11           2           2           4           6           8           12           19           28           42           63           95           142           213           319           479           718           10077           1616           2424           3636           5454           8181           12	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,1109 2,9559 Disp[[mm]] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0002 0,0004 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0000 0,0001 0,0002 0,0002 0,0002 0,0004 0,0002 0,0005 0,000	62127 85400 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,80 2,80 2,50 0,0000 0,0000 0,0000 0,0000 0,0001 0,0002 0,0001 0,0002 0,0001 0,0002 0,0001 0,0002 0,0002 0,0004 0,0002 0,0004 0,0002 0,0004 0,0002 0,0004 0,0002 0,0004 0,0002 0,0002 0,0004 0,0002 0,0002 0,0004 0,0002 0,0004 0,0002 0,0004 0,0002 0,0004 0,0002 0,0004 0,0002 0,0004 0,0002 0,0004 0,0002 0,0004 0,0002 0,0004 0,0002 0,0004 0,0002 0,0004 0,0002 0,0004 0,0002 0,0004 0,0002 0,0004 0,0002 0,0004 0,0002 0,0004 0,0002 0,0004 0,0004 0,0005 0,0004 0,0005 0,0004 0,0005 0	4     62127       8     62127       8     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       1     1       2     4       6     8       12     2       4     6       8     12       19     28       42     63       95     142       213     319       479     718       1077     1616       2424     3636       5454     8181       12272     12408       2364     27612	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		2,9281 2,7479 Displ[mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0004 0,0004 0,0018 0,0004 0,0018 0,0018 0,0018 0,0004 0,0018 0,0018 0,0028 0,0018 0,0028 0,0018 0,0028 0,0018 0,0028 0,0000 0,0001 0,0002 0,0002 0,0002 0,0028 0,0028 0,0028 0,0028 0,0056 0,0028 0,0052 0,0055 0,0052 0,0055	52127           85400           Time [sec.]           0           11           2           2           4           6           8           12           13           142           213           395           142           213           393           5434           8181           12272 </td <td>17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td></td>	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,1109 2,9559 Disp[[mm]] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0003 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0002 0,0002 0,0004 0,0002 0,0004 0,0002 0,0004 0,0002 0,0004 0,0002 0,0004 0,0002 0,0004 0,0002 0,0004 0,0025 0,0004 0,0025 0,005 0,	62127 85400 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,80 2,80 2,50 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0002 0,0005 0,0012 0,005 0,	4         62127           8         62127           8         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           11         1           2         2           45         8           12         1           13         19           28         42           319         319           479         718           10777         1616           2424         3636           5454         8181           12722         18408	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		2,9281 2,7479 Displ[mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0003 0,0004 0,0007 0,0012 0,0012 0,0014 0,0007 0,0012 0,0014 0,0007 0,0012 0,0014 0,0007 0,0012 0,0014 0,0007 0,0012 0,0014 0,0007 0,0012 0,0012 0,0012 0,0012 0,0007 0,0012 0,0007 0,0012 0,0007 0,0012 0,0007 0,0012 0,0007 0,0012 0,0007 0,0012 0,0007 0,0012 0,0007 0,0012 0,0007 0,0012 0,0007 0,0012 0,0007 0,0012 0,0007 0,0012 0,0007 0,0007 0,0007 0,0007 0,0007 0,0007 0,0007 0,0007 0,0007 0,0007 0,0007 0,0007 0,0007 0,0007 0,0007 0,0001 0,0007 0,0002 0,0004 0,0004 0,0005 0,0004 0,0005 0,0004 0,0005 0,0000	62127           85400           11           2           2           4           6           8           12           19           28           42           63           95           142           213           319           479           718           10077           1616           2424           3636           5454           8181           12	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
3,1109 2,9559 Disp[[mm]] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0002 0,0004 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0003 0,0004 0,0000 0,0001 0,0002 0,0002 0,0002 0,0004 0,0002 0,0005 0,000	62127 85400 0 0 0 0 0 0 0 0 0 0 0 0	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,80 2,80 2,50 0,0000 0,0000 0,0000 0,0000 0,0001 0,0002 0,0001 0,0002 0,0001 0,0002 0,0001 0,0002 0,0002 0,0004 0,0002 0,0004 0,0025 0,0050	4     62127       8     62127       8     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       1     1       2     4       6     8       12     2       4     6       8     12       19     28       42     63       95     142       213     319       479     718       1077     1616       2424     3636       5454     8181       12272     12408       2364     27612	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		2,9281 2,7479 Displ[mm] 0,0000 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0001 0,0004 0,0004 0,0018 0,0004 0,0018 0,0018 0,0018 0,0004 0,0018 0,0018 0,0028 0,0018 0,0028 0,0012 0,0012 0,0018 0,0028 0,0000 0,0001 0,0002 0,0002 0,0002 0,0028 0,0028 0,0028 0,0028 0,0056 0,0028 0,0052 0,0055 0,0052 0,0055	52127           85400           Time [sec.]           0           11           2           2           4           6           8           12           13           142           213           395           142           213           393           5434           8181           12272 </td <td>17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>E = 1100 M</td>	17 24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 1100 M

Appendix L: Data influence of diffusi	vity Gesso on bow deformation
ripponum 2. D'atta minaomoo or amtaor	

	Time [sec.]	Time [h.]	D=00	Displ [mm]	Time [sec.]	Time [h.]	D=0,1	Displ [mm]	Time [sec.]	Time [h.]	D=0,01
0,0001	0	0	0 - 4,4	0,0003	0	0	0-0,1	0,0002	0	0	0-4,41
0,0002	ō	ō		0,0005	ō	ō		0,0003	ō	õ	
0,0003	0	0		0,0009	0	0		0,0007	0	0	
0,0007	0	0		0,0014	0	0		0,0013	0	0	
0,0013	õ	ŏ		0,0022	õ	ō		0,0022	ō	õ	
0,0025	õ	õ		0,0034	õ	ō		0,0035	ō	õ	
0,0044	ō	õ		0,0051	õ	0		0,0057	0	ō	
0,0071	0	0		0,0078	0	0		0,0088	0	0	
0,0113	0	0		0,0115	0	0		0,0135	0	0	
0,0175	0	0		0,0174	0	0		0,0205	0	0	
0,0270	1	0		0,0260	1	0		0,0310	1	0	
0,0410	1	0		0,0386	1	0		0,0467	1	0	
0,0621	2	0		0,0569	2	0		0,0702	2	0	
0,0937	2	0		0,0834	2	0		0,1052	2	0	
0,1411	4	0		0,1210	4	0		0,1571	4	0	
0,2120	6	0		0,1736	5	0		0,2340	5	0	
0,3180	8	0	Bow	0,2458	8	0	Bow	0,3469	8	0	Bow
0,4762	12	0		0,3444	12	0		0,5112	12	0	
0,7118	19	0		0,4792	18	0		0,7474	18	0	
1,0616	28	õ		0,6664	27	ō		1,0812	27	õ	
1,5780	42	õ		0,9314	40	õ		1,5433	40	õ	
2,3346	63 95	0 0		1,3105	60 90	0 0		2,1684	60 90	0 0	
3,4302	95			1,8504	90			2,9943			
4,9902	142	0		2,6042	135	0		4,0618	135	0	
7,1572	213	0		3,6218	202	0		5,4073	202	0	
10,0620	319	0		4,9265	303	0		7,0353	303	0	
13,7643	479	0		6,4732	455	0		8,8612	455	0	
18,1633	718	0		8,0988	682	0		10,6455	682	0	
22,9159	1077	0		9,4996	1023	0		11,9875	1023	0	
27,4447	1616	0		10,3039	1534	0		12,4600	1534	0	
31,1194	2424	1		10,2767	2301	1		11,8865	2301	1	
33,5581	3636	1		9,5391	3452	1		10,5632	3452	1	
34,8129	5454	2		8,5534	5177	1		9,1307	5177	1	
35,2376	8181	2		7,7951	7766	2		8,1248	7766	2	
35,1706	12272	3		7,4382	11649	3		7,6634	11649	3	
34,7345	18408	5		7,3788	17473	5		7,5612	17473	5	
33,8430	27612	8		7,4554	26210	7		7,6086	26210	7	
	41418					, 11			39315	11	
32,3025	41418 62127	12 17		7,5710	39315 58972	11 16		7,6931	58972	11	
29,9303				7,6845				7,7728			
27,3152	85400	24		7,7729	86400	24		7,8110	85400	24	
Displ [mm]	Time [sec.]	Time [h.]	D = 0,001	Displ [mm]	Time [sec.]	] Time [h.	] D=0,0001	Displ [mm]	Time [sec.]	Time [h.]	D = 0,00001
0,0001	0	0		0,0001	0	0		0,0001	0	0	
0,0002	0	0	1	0,0002	0	0	1	0,0002	0	0	1
0,0003	õ	ō	1	0,0003	0	ō		0,0003	õ	ō	1
0,0007	õ	ő	1	0,0007	ů 0	ő	1	0,0007	ő	ő	1
0,0007	0	0	1	0,0013	0	0		0,0007	0	0	1
			1				1				1
0,0025	0	0	1	0,0025	0	0		0,0025	0	0	1
0,0044	0	0	1	0,0044	0	0	1	0,0044	0	0	1
0,0071	0	0	1	0,0071	0	0		0,0071	0	0	1
0,0113	0			0,0113	0	0	1	0,0113			
0,0175	0	0							0	0	
0,0270				0,0175	0	õ		0,0115	0	0 0	
	1	0			0 1						
0,0410		0 0		0,0176		0		0,0176	0	0	
0,0410	1	0 0 0		0,0175 0,0270 0,0410	1	0 0		0,0176 0,0270 0,0410	0 1	0 0	
0,0410 0,0621	1 1 2	0 0 0 0		0,0176 0,0270 0,0410 0,0621	1 1 2	0 0 0		0,0175 0,0270 0,0410 0,0621	0 1 1 2	0 0 0	
0,0410 0,0621 0,0937	1 1 2 2	0 0 0 0 0		0,0176 0,0270 0,0410 0,0621 0,0937	1 1 2 2	0 0 0 0		0,0176 0,0270 0,0410 0,0621 0,0937	0 1 1 2 2	0 0 0 0	
0,0410 0,0621 0,0937 0,1409	1 1 2 2 4	0 0 0 0 0 0		0,0176 0,0270 0,0410 0,0621 0,0937 0,1411	1 1 2 2 4	0 0 0 0 0		0,0176 0,0270 0,0410 0,0621 0,0937 0,1411	0 1 2 2 4	0 0 0 0 0	
0,0410 0,0621 0,0937 0,1409 0,2116	1 1 2 2 4 5	0 0 0 0 0 0	Pow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2119	1 2 2 4 5	0 0 0 0 0 0	Pov	0,0175 0,0270 0,0410 0,0621 0,0937 0,1411 0,2120	0 1 2 2 4 5	0 0 0 0 0 0	Por
0,0410 0,0621 0,0937 0,1409 0,2115 0,3170	1 2 2 4 5 8	0 0 0 0 0 0 0	Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2119 0,3179	1 2 2 4 6 8	0 0 0 0 0 0 0	Bow	0,0175 0,0270 0,0410 0,0621 0,0937 0,1411 0,2120 0,3179	0 1 2 2 4 5 8	0 0 0 0 0 0 0	Bow
0,0410 0,0621 0,0937 0,1409 0,2115 0,3170 0,4741	1 2 2 4 5 8 12	0 0 0 0 0 0 0 0	Bow	0,0175 0,0270 0,0410 0,0621 0,0937 0,1411 0,2119 0,3179 0,4760	1 2 2 4 6 8 12	0 0 0 0 0 0 0 0 0	Bow	0,0175 0,0270 0,0410 0,0621 0,0937 0,1411 0,2120 0,3179 0,4762	0 1 2 2 4 6 8 12	0 0 0 0 0 0 0 0	Bow
0,0410 0,0621 0,0937 0,1409 0,2115 0,3170 0,4741 0,7072	1 2 2 4 5 8 12 18	0 0 0 0 0 0 0 0 0	Bow	0,0175 0,0270 0,0410 0,0621 0,0937 0,1411 0,2119 0,3179 0,4760 0,7114	1 2 2 4 6 8 12 19	0 0 0 0 0 0 0 0 0 0 0	Bow	0,0175 0,0270 0,0410 0,0621 0,0937 0,1411 0,2120 0,3179 0,4762 0,7118	0 1 2 4 6 8 12 19	0 0 0 0 0 0 0 0 0 0	Bow
0,0410 0,0621 0,0937 0,1409 0,2115 0,3170 0,4741 0,7072 1,0513	1 2 2 4 5 8 12	0 0 0 0 0 0 0 0	Bow	0,0175 0,0270 0,0410 0,0621 0,0937 0,1411 0,2119 0,3179 0,4760	1 2 2 4 6 8 12	0 0 0 0 0 0 0 0 0	Bow	0,0175 0,0270 0,0410 0,0621 0,0937 0,1411 0,2120 0,3179 0,4762	0 1 2 2 4 6 8 12	0 0 0 0 0 0 0 0	Bow
0,0410 0,0621 0,0937 0,1409 0,2115 0,3170 0,4741 0,7072	1 2 2 4 5 8 12 18	0 0 0 0 0 0 0 0 0	Bow	0,0175 0,0270 0,0410 0,0621 0,0937 0,1411 0,2119 0,3179 0,4760 0,7114	1 2 2 4 6 8 12 19	0 0 0 0 0 0 0 0 0 0 0	Bow	0,0175 0,0270 0,0410 0,0621 0,0937 0,1411 0,2120 0,3179 0,4762 0,7118	0 1 2 4 6 8 12 19	0 0 0 0 0 0 0 0 0 0	Bow
0,0410 0,0621 0,0937 0,1409 0,2115 0,3170 0,4741 0,7072 1,0513	1 2 2 4 5 8 12 18 27	0 0 0 0 0 0 0 0 0	Bow	0,0175 0,0270 0,0410 0,0621 0,0937 0,1411 0,2119 0,3179 0,4760 0,7114 1,0606	1 2 2 4 5 8 12 19 28	0 0 0 0 0 0 0 0 0 0 0	Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2120 0,3179 0,4762 0,7118 1,0615	0 1 2 4 6 8 12 19 28	0 0 0 0 0 0 0 0 0 0 0	Bow
0,0410 0,0621 0,0937 0,1409 0,2116 0,3170 0,3170 0,4741 0,7072 1,0513 1,5555	1 2 2 4 5 8 12 18 27 40	0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2119 0,3179 0,4760 0,7114 1,0606 1,5757 2,3295	1 2 2 4 5 8 12 19 28 42	0 0 0 0 0 0 0 0 0 0 0 0 0	Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2120 0,3179 0,4762 0,7118 1,0615 1,5778 2,3341	0 1 2 2 4 6 8 12 19 28 42	0 0 0 0 0 0 0 0 0 0 0 0 0	Bow
0,0410 0,0621 0,0937 0,1409 0,2116 0,3170 0,4741 0,7072 1,0513 1,5555 2,2858 3,3268	1 2 2 4 5 8 12 18 27 40 60 90	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow	0,0175 0,0270 0,0410 0,0621 0,0937 0,1411 0,2119 0,3179 0,4760 0,7114 1,0606 1,5757 2,3295 3,4193	1 2 2 4 5 8 12 19 28 42 63 95	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2120 0,3179 0,4762 0,7118 1,0615 1,5778 2,3341 3,4291	0 1 2 4 5 8 12 19 28 42 63 95	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow
0,0410 0,0621 0,0937 0,1409 0,2116 0,3170 0,4741 0,7072 1,0513 1,5555 2,2858 3,3268 4,7764	1 1 2 4 5 8 12 18 27 40 60 90 135	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2119 0,4760 0,7114 1,0606 1,5757 2,3295 3,4193 4,9673	1 1 2 4 5 8 12 19 28 42 63 95 142	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2120 0,3179 0,4752 0,7118 1,0615 1,5778 2,3341 3,4291 4,9879	0 1 2 4 6 8 12 19 28 42 63 95 142	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow
0,0410 0,0621 0,0937 0,1409 0,2116 0,3170 0,4741 1,0513 1,5555 2,2858 3,3268 4,7764 6,7299	1 2 4 5 8 12 18 27 40 60 90 135 202	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2119 0,3179 0,4760 0,7114 1,0606 1,5757 2,3295 3,4193 4,9673 7,1102	1 1 2 4 6 8 12 19 28 42 63 95 142 213		Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2120 0,3179 0,4762 0,7118 1,0615 1,5778 2,3341 3,4291 4,9879 7,1524	0 1 2 2 4 6 8 12 19 28 42 63 95 142 213	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow
0,0410 0,0621 0,0937 0,1409 0,2115 0,3170 0,4741 0,7072 1,0513 1,5555 2,2858 3,3268 4,7764 6,7299 9,2441	1 1 2 4 5 8 12 18 27 40 60 90 1355 202 303	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2119 0,3179 0,4760 0,7114 1,0606 1,5757 2,3295 3,4193 4,9673 7,1102 9,9689	1 1 2 4 6 8 12 19 28 42 63 95 142 213 319	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2120 0,3179 0,4762 0,7118 1,0615 1,5778 2,3341 3,4291 4,9879 7,1524 10,0525	0 1 2 4 6 8 12 19 28 42 63 95 142 213 319	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow
0,0410 0,0621 0,0937 0,1409 0,2115 0,3170 0,4741 0,7072 1,0513 1,5555 2,2858 3,3268 4,7764 6,7299 9,2441 12,2765	1 1 2 4 5 8 12 18 27 40 60 90 135 202 303 455	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow	0,0176 0,0270 0,0410 0,0621 0,2119 0,3179 0,4750 0,7114 1,0606 1,5757 2,3295 3,4193 4,9673 7,1102 9,9689 13,5874	1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479		Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2120 0,3179 0,4762 0,7118 1,0615 1,5778 2,3341 3,4291 4,9879 7,1524 10,0525 13,7462	0 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow
0,0410 0,0621 0,0937 0,1409 0,2115 0,3170 0,4741 0,7072 1,0513 1,5555 2,2858 3,3268 4,7764 6,7299 9,2441 12,2766 15,6072	1 1 2 4 5 8 12 18 27 40 60 90 135 202 303 455 682	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2119 0,4760 0,7114 1,0606 1,5757 2,3295 3,4193 4,9673 7,1102 9,9689 13,5874 17,8431	1 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718		Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2120 0,3179 0,4762 0,7118 1,0615 1,5778 2,3341 3,4291 4,9879 7,1524 10,0526 13,7462 18,1304	0 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow
0,0410 0,0621 0,0937 0,1409 0,2116 0,3170 0,4741 0,7072 1,0513 1,5555 2,2858 3,3268 4,7764 6,7299 9,2441 12,2766 15,6072 18,7741	1 1 2 4 5 8 12 18 27 40 60 90 135 202 303 455 682 1023	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2119 0,4760 0,7114 1,0606 1,5757 2,3295 3,4193 4,9673 7,1102 9,9589 13,5874 17,8431 22,3653	1 2 4 6 8 12 13 28 42 63 95 142 213 319 479 718 1077		Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2120 0,3179 0,4762 0,7118 1,0615 1,5778 2,3341 3,4291 4,9879 7,1524 10,0525 13,7452 18,1304 22,8590	0 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow
0,0410 0,0621 0,0937 0,1409 0,2115 0,3170 0,4741 0,7072 1,0513 1,5555 2,2858 3,3268 4,7764 6,7299 9,2441 12,2766 15,6072	1 1 2 4 5 8 12 18 27 40 60 90 135 202 303 455 682	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2119 0,4760 0,7114 1,0606 1,5757 2,3295 3,4193 4,9673 7,1102 9,9689 13,5874 17,8431	1 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718		Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2120 0,3179 0,4762 0,7118 1,0615 1,5778 2,3341 3,4291 4,9879 7,1524 10,0526 13,7462 18,1304	0 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow
0,0410 0,0621 0,0937 0,1409 0,2116 0,3170 0,4741 0,7072 1,0513 1,5555 2,2858 3,3268 4,7764 6,7299 9,2441 12,2766 15,6072 18,7741	1 1 2 4 5 8 12 18 27 40 60 90 135 202 303 455 682 1023	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2119 0,4760 0,7114 1,0606 1,5757 2,3295 3,4193 4,9673 7,1102 9,9589 13,5874 17,8431 22,3653	1 2 4 6 8 12 13 28 42 63 95 142 213 319 479 718 1077		Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2120 0,3179 0,4762 0,7118 1,0615 1,5778 2,3341 3,4291 4,9879 7,1524 10,0525 13,7452 18,1304 22,8590	0 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow
0,0410 0,0621 0,0937 0,1409 0,2116 0,3170 0,4741 0,7072 1,0513 1,5555 2,2858 3,3268 4,7764 6,7299 9,2441 12,2766 15,6072 18,7741 21,1064	1 1 2 4 5 8 12 18 27 40 60 90 135 202 303 455 682 1023 1534	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2119 0,3179 0,4760 0,7114 1,0606 1,5757 2,3295 3,4193 4,9673 7,1102 9,9689 13,5874 17,8431 22,3553 26,5422	1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718 1077 1615		Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2120 0,3179 0,4762 0,7118 1,0615 1,5778 2,3341 3,4291 4,9879 7,1524 10,0526 13,7462 18,1304 22,8550 27,3506	0 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow
0,0410 0,0621 0,0937 0,1409 0,2115 0,3170 0,4741 0,7072 1,0513 1,5555 2,2858 3,3268 4,7754 6,7299 9,2441 12,2765 15,6072 18,7741 21,1064 21,9385 20,9688	1 1 2 4 5 8 12 18 27 40 60 90 135 202 303 455 682 1023 1534 2301 3452	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2119 0,3179 0,4760 0,7114 1,0606 1,5757 2,3295 3,4193 4,9673 7,1102 9,9689 13,5874 17,8431 22,3653 26,5422 29,7005 31,4047	1 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2120 0,3179 0,4762 0,7118 1,0615 1,5778 2,3341 3,4291 4,9879 7,1524 10,0525 13,7452 18,1304 22,8590 27,3506 30,9697 33,3273	0 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 718 1077 1616 2424 3636	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow
0,0410 0,0621 0,0937 0,1409 0,2116 0,3170 0,4741 0,7072 1,0513 1,5555 2,2858 3,3268 4,7764 6,7299 9,2441 12,2766 15,6072 18,7741 21,1064 21,9385 20,9688 18,5151	1 1 2 4 5 8 12 18 27 40 60 90 135 202 303 455 682 1023 1534 2301 3452 5177	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2119 0,4760 0,7114 1,0606 1,5757 2,3295 3,4193 4,9673 7,1102 9,9689 13,5874 17,8431 22,3653 26,5422 29,7005 31,4047 31,6454	1 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2120 0,3179 0,3179 0,3179 0,3179 0,3179 0,3179 0,7118 1,0615 1,5778 2,3341 3,4291 4,9879 7,1524 10,0525 13,7452 18,1304 22,8590 27,3506 30,9697 33,3273 34,4659	0 1 1 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 10777 1616 5454	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow
0,0410 0,0621 0,0937 0,1409 0,2116 0,3170 0,4741 1,0513 1,5555 2,2858 3,3268 4,7764 6,7299 9,2441 12,2766 15,6072 18,7741 21,1064 21,9385 20,9688 18,5151 15,4047	1 1 2 4 5 8 12 18 27 40 60 90 135 202 303 455 582 1023 1534 2301 3452 5177 7766	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2119 0,3179 0,4760 0,7114 1,0606 1,5757 2,3295 3,4193 4,9673 7,1102 9,5689 13,5874 17,8431 22,3653 26,5422 29,7005 31,4047 31,6454 30,7230	1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2120 0,3179 0,4762 0,7118 1,0615 1,5778 2,3341 3,4291 4,9879 7,1524 10,0526 13,7462 18,1304 22,8590 27,3506 30,9697 33,3273 34,4659 34,7279	0 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5435 5435 8181	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow
0,0410 0,0621 0,0937 0,1409 0,2115 0,3170 0,4741 0,7072 1,0513 1,5555 2,2858 3,3268 4,7764 6,7299 9,2441 12,2766 15,6072 18,7741 21,1064 21,9385 20,9688 18,5151 15,4047 12,5435	1 1 2 4 5 8 12 18 27 40 60 90 135 202 303 455 682 1023 1534 2301 3452 5177 7766 11649	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2119 0,3179 0,4760 0,7114 1,0606 1,5757 2,3295 3,4193 4,9673 7,1102 9,9689 13,5874 17,8431 22,3653 26,5422 29,7005 31,4047 31,6454 30,7230 28,9619	1 1 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718 1077 1615 2424 3635 5454 8181 12272	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2120 0,3179 0,4762 0,7118 1,0615 1,5778 2,3341 3,4291 4,9879 7,1524 10,0525 13,7462 18,1304 22,8590 30,9697 33,3273 34,4659 34,7229 34,4402	0 1 1 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1615 2424 3636 5454 8181 12272	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow
0,0410 0,0621 0,0937 0,1409 0,2115 0,3170 0,4741 0,7072 1,0513 1,5555 2,2858 3,3268 4,7764 6,7299 9,2441 12,2766 15,6072 18,7741 21,1064 21,9385 20,9688 18,5151 15,4047 12,5436 10,4855	1 1 2 4 5 8 12 18 27 40 60 90 135 202 303 455 682 1023 1534 2301 3452 5177 7766 11649 17473	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2119 0,3179 0,4750 0,7114 1,0606 1,5757 2,3295 3,4193 4,9673 7,1102 9,9689 13,5874 17,8431 22,3653 26,5422 29,7005 31,4047 31,6454 30,7230 28,9619 26,55561	1 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272 18408	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2120 0,3179 0,4762 0,7118 1,0615 1,5778 2,3341 3,4291 4,9879 7,1524 10,0525 13,7462 18,1304 22,8590 27,3506 30,9697 33,3273 34,4659 34,4559 34,7279	0 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272 18408	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow
0,0410 0,0621 0,0937 0,1409 0,2116 0,3170 0,4741 0,7072 1,0513 1,5555 2,2858 3,3268 4,7764 6,7299 9,2441 12,2766 15,6072 18,7741 21,1064 21,9385 20,9688 18,5151 15,4047 12,5436 10,4865 9,2888	1 1 2 4 5 8 12 18 27 40 60 90 135 202 303 455 682 1023 1534 2301 3452 5177 7766 11649 17473 26210	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2119 0,4760 0,7114 1,0606 1,5757 2,3295 3,4193 4,9673 7,1102 9,9689 13,5874 17,8431 22,3653 26,5422 29,7005 31,4047 31,6454 30,7230 28,9619 26,5551 23,6235	1 1 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272 184008 27612	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2120 0,3179 0,4762 0,7118 1,0615 1,5778 2,3341 3,4291 4,9879 7,1524 10,0526 13,7462 18,1304 22,8590 27,3506 30,9697 33,3273 34,4659 34,7279 34,4659 33,7175 32,4762	0 1 1 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272 18408 27612	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow
0,0410 0,0621 0,0937 0,1409 0,2115 0,3170 0,4741 0,7072 1,0513 1,5555 2,2858 3,3268 4,7764 6,7299 9,2441 12,2766 15,6072 18,7741 21,1064 21,9385 20,9688 18,5151 15,4047 12,5436 10,4855	1 1 2 4 5 8 12 18 27 40 60 90 135 202 303 455 682 1023 1534 2301 3452 5177 7766 11649 17473	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2119 0,3179 0,4750 0,7114 1,0606 1,5757 2,3295 3,4193 4,9673 7,1102 9,9689 13,5874 17,8431 22,3653 26,5422 29,7005 31,4047 31,6454 30,7230 28,9619 26,55561	1 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272 18408	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2120 0,3179 0,4762 0,7118 1,0615 1,5778 2,3341 3,4291 4,9879 7,1524 10,0525 13,7462 18,1304 22,8590 27,3506 30,9697 33,3273 34,4659 34,4559 34,7279	0 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272 18408	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow
0,0410 0,0621 0,0937 0,1409 0,2116 0,3170 0,4741 0,7072 1,0513 1,5555 2,2858 3,3268 4,7764 6,7299 9,2441 12,2766 15,6072 18,7741 21,1064 21,9385 20,9688 18,5151 15,4047 12,5436 10,4865 9,2888	1 1 2 4 5 8 12 18 27 40 60 90 135 202 303 455 682 1023 1534 2301 3452 5177 7766 11649 17473 26210	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2119 0,4760 0,7114 1,0606 1,5757 2,3295 3,4193 4,9673 7,1102 9,9689 13,5874 17,8431 22,3653 26,5422 29,7005 31,4047 31,6454 30,7230 28,9619 26,5551 23,6235	1 1 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272 184008 27612	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow	0,0176 0,0270 0,0410 0,0621 0,0937 0,1411 0,2120 0,3179 0,4762 0,7118 1,0615 1,5778 2,3341 3,4291 4,9879 7,1524 10,0526 13,7462 18,1304 22,8590 27,3506 30,9697 33,3273 34,4659 34,7279 34,4659 34,7175 32,4762	0 1 1 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272 18408 27612	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Bow

۲Y							-		•			
D	ispl [mm]	Time [sec.]	Time [h.]	D = 0,0	Displ [mm]	Time [sec.]	Time [h.]	D=0,1	Displ [mm]	Time [sec.]	Time [h.]	D=0,01
	0,0001	0	0		0,0001	0	0		0,0001	0	0	
	0,0003	0	0		0,0002	0	0		0,0002	0	0	
	0,0004	0	0		0,0003	0	0		0,0004	0	0	
	0,0007	0	0		0,0005	0	0		0,0005	0	0	
	0,0011	0	0		0,0008	0	0		0,0009	0	0	
	0,0018	0	0		0,0012	0	0		0,0014	0	0	
	0,0027	1	0		0,0018	0	0		0,0021	1	0	
	0,0042	1	0		0,0026	1	0		0,0031	1	0	
	0,0063	2	0		0,0039	1	0		0,0047	1	0	
	0,0095	2	0		0,0058	2	0		0,0071	2	0	
	0,0143	4	0		0,0085	2	0		0,0107	3	0	
	0,0215	6	0		0,0125	4	0		0,0160	4	0	
	0,0322	8	0		0,0181	5	0		0,0238	6	0	
	0,0483	12	0		0,0260	8	0		0,0354	9	0	
	0,0722	19	0		0,0370	12	0		0,0523	14	0	
	0,1076	28	0		0,0523	18	0 0		0,0768	21	0	
	0,1599	42	õ	Сир	0,0740	27	õ	Cup	0,1117	32	õ	Cup
	0,2365	63	0	Cap	0,1052	40	0	cap		47	ō	cap
	0,2365	95	0		0,1052	40 60	0		0,1607 0,2281	47 71	0	
			0			90					0	
	0,5049	142			0,2144		0		0,3190	105		
	0,7234	213	0		0,3049	135	0		0,4395	160	0	
	1,0154	319	0		0,4285	202	0		0,5951	239	0	
	1,3862	479	0		0,5901	303	0		0,7889	359	0	
	1,8245	718	0		0,7877	455	0		1,0148	539	0	
	2,2946	1077	0		1,0075	682	0		1,2515	808	0	
	2,7388	1616	0		1,2202	1023	0		1,4601	1212	0	
	3,0957	2424	1		1,3872	1534	0		1,5970	1818	1	
	3,3314	3636	1		1,4799	2301	1		1,6401	2727	1	
	3,4552	5454	2		1,5032	3452	1		1,6115	4091	1	
	3,5051	8181	2		1,4976	5177	1		1,5688	6136	2	
	3,5158	12272	3		1,5103	7766	2		1,5647	9204	3	
	3,5008	18408	5		1,5645	11649	3		1,6163	13806	4	
	3,4556	27612	8		1,6561	17473	5		1,7104	20709	6	
	3,3683	41418	12		1,7702	26210	7		1,8256	31064	9	
	3,2305	62127	17		1,8908	39315	11		1,9426	46596	13	
	3,0821	86400	24		2,0032	58972	16		2,0462	69893	19	
					2,0907	86400	24		2,0962	86400	24	
Γ	Displ [mm]	Time [sec.]	Time [h.]	D=0,001	Displ [mm]	Time [sec.]	Time [h.]	D=0,0001	Displ [mm]	Time [sec.]	Time [h.]	D=0,00001
F	Displ [mm] 0,0001	Time [sec.] 0	Time [h.] 0	D=0,001	Displ [mm] 0,0001		Time [h.] 0	D=0,0001	Displ [mm] 0,0001	Time [sec.]	Time [h.] 0	D=0,00001
ſ	0,0001		Time [h.] 0 0	D=0,001	0,0001	0	Time [h.] 0 0	D=0,0001	0,0001		Time [h.] 0 0	D=0,00001
	0,0001 0,0001	0 0	0 0	D = 0,001	0,0001 0,0001	0	0 0	D=0,0001	0,0001 0,0001	0	0 0	D=0,00001
	0,0001 0,0001 0,0003	0 0 0	0 0 0	D = 0,001	0,0001 0,0001 0,0003	0 0 0	0 0 0	D=0,0001	0,0001 0,0001 0,0003	0 0 0	0 0 0	D = 0,00001
ſ	0,0001 0,0001 0,0003 0,0004	0 0 0 0	0 0 0 0	D = 0,001	0,0001 0,0001 0,0003 0,0004	0 0 0 0	0 0 0 0	D = 0,0001	0,0001 0,0001 0,0003 0,0004	0 0 0 0	0 0 0 0	D = 0,00001
ſ	0,0001 0,0001 0,0003 0,0004 0,0007	0 0 0 0 0	0 0 0 0 0	D = 0,001	0,0001 0,0001 0,0003 0,0004 0,0007	0 0 0 0 0	0 0 0 0 0	D = 0,0001	0,0001 0,0001 0,0003 0,0004 0,0007	0 0 0 0 0	0 0 0 0 0	D = 0,00001
	0,0001 0,0001 0,0003 0,0004 0,0007 0,0011	0 0 0 0 0 0	0 0 0 0 0 0	D = 0,001	0,0001 0,0001 0,0003 0,0004 0,0007 0,0011	0 0 0 0 0 0	0 0 0 0 0 0	D = 0,0001	0,0001 0,0001 0,0003 0,0004 0,0007 0,0011	0 0 0 0 0 0	0 0 0 0 0 0	D=0,00001
	0,0001 0,0001 0,0003 0,0004 0,0007 0,0011 0,0018	0 0 0 0 0 0 1	0 0 0 0 0 0 0	D = 0,001	0,0001 0,0001 0,0003 0,0004 0,0007 0,0011 0,0018	0 0 0 0 0 0 0	0 0 0 0 0 0	D = 0,0001	0,0001 0,0001 0,0003 0,0004 0,0007 0,0011 0,0018	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	D = 0,00001
	0,0001 0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027	0 0 0 0 0 0 1 1	0 0 0 0 0 0 0 0 0	D = 0,001	0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027	0 0 0 0 0 0 0 1	0 0 0 0 0 0 0 0	D=0,0001	0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027	0 0 0 0 0 0 0 1	0 0 0 0 0 0 0 0	D=0,00001
	0,0001 0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042	0 0 0 0 0 1 1 1	0 0 0 0 0 0 0 0 0 0	D = 0,001	0,0001 0,0003 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042	0 0 0 0 0 0 0 1 1	0 0 0 0 0 0 0 0 0	D=0,0001	0,0001 0,0003 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042	0 0 0 0 0 0 0 1 1	0 0 0 0 0 0 0 0 0	D=0,00001
	0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063	0 0 0 0 0 0 1 1 1 2	0 0 0 0 0 0 0 0 0 0 0	D = 0,001	0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063	0 0 0 0 0 0 1 1 2	0 0 0 0 0 0 0 0 0 0	D=0,0001	0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063	0 0 0 0 0 0 0 1 1 2	0 0 0 0 0 0 0 0 0 0	D=0,00001
	0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095	0 0 0 0 0 1 1 1 2 3	0 0 0 0 0 0 0 0 0 0 0 0	D=0,001	0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095	0 0 0 0 0 0 1 1 2 2	0 0 0 0 0 0 0 0 0 0 0 0	D=0,0001	0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095	0 0 0 0 0 0 1 1 2 2	0 0 0 0 0 0 0 0 0 0 0 0	D=0,00001
	0,0001 0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143	0 0 0 0 0 1 1 1 2 3 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	D=0,001	0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143	0 0 0 0 0 0 1 1 2 2 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0	D = 0,0001	0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143	0 0 0 0 0 0 1 1 2 2 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0	D=0,00001
	0,0001 0,0003 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215	0 0 0 0 0 1 1 1 2 3 4 5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	D=0,001	0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215	0 0 0 0 0 0 1 1 2 2 4 5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	D = 0,0001	0,0001 0,0003 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215	0 0 0 0 0 0 1 1 2 2 4 5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	D=0,00001
	0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322	0 0 0 0 1 1 1 2 3 4 5 9		D=0,001	0,0001 0,0003 0,0003 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322	0 0 0 0 0 0 1 1 2 2 4 5 8	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	D=0,0001	0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322	0 0 0 0 0 0 1 1 2 4 5 8	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	D = 0,00001
	0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0062 0,0043 0,005 0,0143 0,0215 0,0322 0,0481	0 0 0 0 1 1 1 2 3 4 6 9 14		D=0,001	0,0001 0,0003 0,0003 0,0004 0,0001 0,0018 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483	0 0 0 0 0 0 1 1 2 2 4 6 8 12		D=0,0001	0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483	0 0 0 0 0 0 1 1 2 2 4 5 8 12	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	D = 0,00001
	0,0001 0,0003 0,0003 0,0004 0,0007 0,0018 0,0018 0,0027 0,0042 0,0063 0,0042 0,0043 0,0095 0,0143 0,0215 0,0322 0,0481 0,0718	0 0 0 0 1 1 1 2 3 4 5 9 14 21			0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0721	0 0 0 0 0 1 1 2 2 4 6 8 12 19			0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0722	0 0 0 0 0 1 1 2 2 4 5 8 12 19	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	0,0001 0,0003 0,0003 0,0004 0,0007 0,0018 0,0027 0,0042 0,0042 0,0042 0,0042 0,0043 0,0095 0,0143 0,0215 0,0322 0,0441 0,0718 0,1068	0 0 0 0 1 1 1 2 3 4 5 9 14 21 32		D=0,001	0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0721 0,1075	0 0 0 0 0 1 1 2 2 4 6 8 12 19 28		D=0,0001	0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0722 0,1076	0 0 0 0 0 1 1 2 2 4 6 8 12 19 28	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	D=0,00001
	0,0001 0,0003 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0065 0,0042 0,0065 0,0143 0,0215 0,0481 0,0718 0,0718 0,0158	0 0 0 0 1 1 1 2 3 4 5 9 14 21 32 47			0,0001 0,0003 0,0003 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0721 0,1075 0,1597	0 0 0 0 0 1 1 2 2 4 6 8 12 19 28 42			0,0001 0,0003 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0722 0,1076 0,1599	0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	0,0001 0,0003 0,0003 0,0004 0,0001 0,0018 0,0027 0,0042 0,0042 0,0042 0,0043 0,0025 0,0143 0,0158 0,1058 0,1581 0,2325	0 0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71			0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0042 0,0043 0,0095 0,0143 0,0215 0,0322 0,0483 0,0721 0,1075 0,1597 0,2361	0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63			0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0722 0,1599 0,2365	0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	0,0001 0,0003 0,0003 0,0004 0,0001 0,0018 0,0013 0,0027 0,0042 0,0042 0,0043 0,0025 0,0043 0,0143 0,0215 0,0322 0,0481 0,0718 0,1581 0,2325 0,3388	0 0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106			0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0721 0,1075 0,1597 0,2361 0,3464	0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95			0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0722 0,0483 0,0722 0,0483 0,0722 0,0483 0,0722 0,0483 0,0722 0,0483 0,0722 0,0483 0,0722 0,0483 0,0722 0,059 0,2365 0,3472	0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 53 95	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	0,0001 0,0003 0,0003 0,0004 0,0011 0,0018 0,0017 0,0042 0,0042 0,0042 0,0043 0,0025 0,0143 0,0215 0,0322 0,0481 0,1581 0,1581 0,2325 0,3388 0,4873	0 0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 105 160			0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0721 0,1075 0,1597 0,2361 0,3454 0,5030	0 0 0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142			0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0042 0,0063 0,0048 0,0025 0,0143 0,0215 0,0322 0,0483 0,0722 0,1076 0,1599 0,2365 0,3472 0,5047	0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	0,0001 0,0003 0,0003 0,0004 0,0018 0,0018 0,0018 0,0027 0,0042 0,0042 0,0042 0,0043 0,0025 0,0143 0,0215 0,0322 0,0481 0,0215 0,0388 0,10581 0,2325 0,3388 0,4873 0,6884	0 0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 105 150 239			0,0001 0,0003 0,0003 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0721 0,1075 0,1597 0,2361 0,3464 0,5030 0,7195	0 0 0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0722 0,1076 0,1599 0,2365 0,3472 0,5047 0,7230	0 0 0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	0,0001 0,0003 0,0003 0,0004 0,0007 0,0018 0,0018 0,0027 0,0042 0,0042 0,0042 0,0042 0,0042 0,0042 0,0043 0,0143 0,0215 0,0322 0,0481 0,0718 0,1581 0,2325 0,3388 0,4873 0,6884 0,9489	0 0 0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 105 160 239 359			0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0721 0,1075 0,1597 0,2361 0,3464 0,5030 0,7195 1,0079	0 0 0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319			0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0722 0,1076 0,1599 0,2365 0,3472 0,5047 0,7230 1,0147	0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	0,0001 0,0003 0,0003 0,0004 0,0007 0,0018 0,0027 0,0042 0,0063 0,0042 0,0063 0,0042 0,0063 0,0043 0,0042 0,005 0,00000000	0 0 0 0 0 1 1 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539			0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0721 0,1597 0,2361 0,3464 0,5030 0,7195 1,0079 1,3719	0 0 0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479			0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0215 0,0322 0,0483 0,0722 0,1076 0,1599 0,2365 0,3472 0,5047 0,7230 1,0147 1,3848	0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	0,0001 0,0003 0,0003 0,0004 0,0001 0,0007 0,0018 0,0027 0,0042 0,0042 0,0043 0,0025 0,0043 0,0143 0,0143 0,0143 0,0143 0,0143 0,0143 0,0143 0,0143 0,0143 0,0143 0,0143 0,0143 0,0143 0,0143 0,0143 0,0143 0,004 0,004 0,004 0,004 0,0043 0,0043 0,0045 0,0050 0,00000000	0 0 0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539 808			0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0721 0,1075 0,1597 0,2361 0,3464 0,5030 0,7195 1,0079 1,3719 1,7989	0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0225 0,0483 0,0225 0,0322 0,0483 0,0722 0,1076 0,1599 0,2365 0,3472 0,5047 0,7230 1,0147 1,3848 1,8218	0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	0,0001 0,0003 0,0003 0,0004 0,0011 0,0018 0,0027 0,0042 0,0042 0,0043 0,0025 0,0043 0,0045 0,0045 0,0045 0,0045 0,0143 0,0015 0,0148 0,0158 0,0158 0,01581 0,2325 0,3388 0,4873 0,5884 0,9489 1,2601 1,5200 1,5200	0 0 0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539 808 1212			0,0001 0,0003 0,0003 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0721 0,1075 0,1597 0,2361 0,3464 0,5030 0,7195 1,0079 1,3719 1,7989 2,2511	0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718 1077			0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0722 0,0483 0,0722 0,0483 0,0722 0,0483 0,0725 0,1076 0,1599 0,2365 0,3472 0,5047 0,7230 1,0147 1,3848 1,8218 2,2901	0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 53 95 142 213 319 479 718 1077	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	0,0001 0,0003 0,0003 0,0004 0,0018 0,0018 0,0027 0,0042 0,0042 0,0042 0,0043 0,0025 0,0045 0,0215 0,0322 0,0481 0,0215 0,0322 0,0481 0,0225 0,3388 0,4873 0,5884 0,4873 0,5884 0,4873 1,2661 1,5200 1,9672 2,2447	0 0 0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0215 0,0322 0,0483 0,0721 0,1075 0,1597 0,2361 0,3464 0,5030 0,7195 1,0079 1,3719 1,7989 2,2511 2,6685	0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616			0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0722 0,0483 0,0722 0,1076 0,1599 0,2365 0,3472 0,5047 0,7230 1,0147 1,3848 1,8218 2,2901 2,7315	0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718 1077 1615	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	0,0001 0,0003 0,0003 0,0004 0,0018 0,0018 0,0017 0,0018 0,0027 0,0042 0,0063 0,0025 0,0143 0,0215 0,0215 0,0322 0,0481 0,0215 0,0322 0,0481 0,1581 0,2325 0,3388 0,4873 0,5884 0,9489 1,2661 1,6200 1,9672 2,2447 2,3913	0 0 0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 105 160 239 359 539 808 1212 1818 2727	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0721 0,1075 0,1597 0,2361 0,3464 0,5030 0,7195 1,0079 1,3719 1,7989 2,2511 2,6685 2,9871	0 0 0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1615 2424			0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0722 0,1076 0,1599 0,2365 0,3472 0,5047 0,7230 1,0147 1,3848 1,8218 2,2901 2,7315 3,0843	0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718 1077 1516 2424	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	0,0001 0,0003 0,0004 0,0007 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0042 0,0063 0,0042 0,0063 0,0043 0,00215 0,0143 0,0215 0,0481 0,0215 0,0322 0,0481 0,0718 0,1581 0,2325 0,3388 0,4873 0,5884 0,9489 1,2661 1,5200 1,9672 2,2447	0 0 0 0 0 1 1 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0215 0,0322 0,0483 0,0721 0,1075 0,1597 0,2361 0,3464 0,5030 0,7195 1,0079 1,3719 1,7989 2,2511 2,6685 2,9871 3,1694	0 0 0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 10777 1615 2424 3636			0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0722 0,0483 0,0722 0,1076 0,1599 0,2365 0,3472 0,5047 0,7230 1,0147 1,3848 1,8218 2,2901 2,7315 3,0843 3,3140	0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	0,0001 0,0003 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0042 0,0042 0,0043 0,00215 0,0143 0,0158 0,01581 0,2325 0,3388 0,4873 0,5884 0,4873 0,5884 1,2661 1,5200 1,9672 2,2447 2,3819 2,2495	0 0 0 0 0 1 1 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091 6136	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0003 0,0003 0,0007 0,0011 0,0018 0,0027 0,0042 0,0042 0,0043 0,0095 0,0143 0,0215 0,0322 0,0443 0,0215 0,0322 0,0443 0,0721 0,1597 0,2361 0,3464 0,5030 0,7195 1,0079 1,3719 1,7989 2,2511 2,6685 2,9871 3,1594 3,2217	0 0 0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454			0,0001 0,0003 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0722 0,1076 0,1599 0,2365 0,3472 0,5047 0,7230 1,0147 1,3848 1,8218 2,2901 2,7315 3,0843 3,3140 3,4296	0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718 10777 1616 2424 3636 5454	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0042 0,0043 0,0025 0,0043 0,0043 0,0143 0,0215 0,0322 0,0481 0,0718 0,01581 0,01581 0,2325 0,3388 0,4873 0,5884 0,5945 1,2561 1,2561 1,2572 2,2447 2,3819 2,2447 2,3819 2,2447 2,3819 2,2447	0 0 0 0 0 1 1 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091 6136 9204	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0721 0,1075 0,1597 0,2361 0,3464 0,5030 0,7195 1,0079 1,3719 1,7989 2,2511 2,6685 2,9871 3,1694 3,2217 3,1801	0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718 10777 1616 2424 3636 5454 8181			0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0042 0,0043 0,0095 0,0143 0,0215 0,0322 0,0483 0,0722 0,1076 0,1599 0,2365 0,3472 0,5047 0,7230 1,0147 1,3848 1,8218 2,2901 2,7315 3,0843 3,3140 3,4296 3,4684	0 0 0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	0,0001 0,0003 0,0004 0,0007 0,0018 0,0018 0,0027 0,0042 0,0042 0,0043 0,0025 0,0043 0,0043 0,0215 0,0322 0,0481 0,0718 0,0322 0,0481 0,0718 0,1581 0,2325 0,3388 0,4873 0,5884 0,4873 0,5884 0,9489 1,2661 1,5200 1,9672 2,2447 2,3819 2,2495 2,0714 1,9285	0 0 0 0 0 1 1 1 1 2 3 4 5 9 14 21 32 47 71 106 150 239 359 539 808 1212 1818 2727 4091 6136 9204 13806	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0215 0,0322 0,0483 0,0721 0,1075 0,1597 0,2361 0,3464 0,5030 0,7195 1,0079 1,3719 1,7989 2,2511 2,5685 2,9871 3,1694 3,2217 3,1801 3,0819	0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718 1077 1615 2424 3636 5454 8181 12272	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0722 0,0483 0,0722 0,0483 0,0722 0,0483 0,0722 0,0483 0,0722 0,0483 0,0722 0,0483 0,0725 0,1599 0,2365 0,3472 0,5047 0,7230 1,0147 1,3848 1,8218 2,2901 2,7315 3,0843 3,3140 3,4296 3,4684 3,4684	0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 53 95 142 213 319 479 718 1077 1515 2424 3636 5454 8181 12272	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0042 0,0043 0,0025 0,0043 0,0043 0,0143 0,0215 0,0322 0,0481 0,0718 0,01581 0,01581 0,2325 0,3388 0,4873 0,5884 0,5945 1,2561 1,2561 1,2572 2,2447 2,3819 2,2447 2,3819 2,2447 2,3819 2,2447	0 0 0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091 6136 9204 13806 20709	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0721 0,1075 0,1597 0,2361 0,3464 0,5030 0,7195 1,0079 1,3719 1,7989 2,2511 2,6685 2,9871 3,1694 3,2217 3,1801	0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 422 63 95 142 213 319 479 718 1077 1616 2424 3635 5454 8181 12272 18408	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0042 0,0043 0,0095 0,0143 0,0215 0,0322 0,0483 0,0722 0,1076 0,1599 0,2365 0,3472 0,5047 0,7230 1,0147 1,3848 1,8218 2,2901 2,7315 3,0843 3,3140 3,4296 3,4684	0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3536 5454 8181 12272 18408	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	0,0001 0,0003 0,0004 0,0007 0,0018 0,0018 0,0027 0,0042 0,0042 0,0043 0,0025 0,0043 0,0043 0,0215 0,0322 0,0481 0,0718 0,0322 0,0481 0,0718 0,1581 0,2325 0,3388 0,4873 0,5884 0,4873 0,5884 0,9489 1,2661 1,5200 1,9672 2,2447 2,3819 2,2495 2,0714 1,9285	0 0 0 0 0 1 1 1 1 2 3 4 5 9 14 21 32 47 71 106 150 239 359 539 808 1212 1818 2727 4091 6136 9204 13806	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0215 0,0322 0,0483 0,0721 0,1075 0,1597 0,2361 0,3464 0,5030 0,7195 1,0079 1,3719 1,7989 2,2511 2,5685 2,9871 3,1694 3,2217 3,1801 3,0819	0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718 1077 1615 2424 3636 5454 8181 12272	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0722 0,0483 0,0722 0,0483 0,0722 0,0483 0,0722 0,0483 0,0722 0,0483 0,0722 0,0483 0,0725 0,1599 0,2365 0,3472 0,5047 0,7230 1,0147 1,3848 1,8218 2,2901 2,7315 3,0843 3,3140 3,4296 3,4684 3,4684	0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 53 95 142 213 319 479 718 1077 1515 2424 3636 5454 8181 12272	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	0,0001 0,0003 0,0003 0,0004 0,0018 0,0018 0,0027 0,0042 0,0042 0,0042 0,0042 0,0042 0,0043 0,0215 0,0322 0,0481 0,0215 0,0322 0,0481 0,0215 0,0322 0,0481 0,0215 0,0322 0,0481 0,0225 0,3388 0,1581 0,2325 0,3388 0,4873 0,5884 0,9489 1,2661 1,5200 1,9672 2,2447 2,3913 2,3819 2,2495 1,9285 1,9272	0 0 0 0 0 1 1 1 1 2 3 4 6 9 14 2 1 3 2 47 71 106 160 239 359 539 808 1212 1818 2727 4091 6136 9204 13806 20709 31064 46596	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0215 0,0322 0,0483 0,0215 0,1075 0,1297 0,2361 0,3464 0,5030 0,7195 1,0079 1,3719 1,7989 2,2511 2,6685 2,9871 3,1694 3,2217 3,1694 3,0819 2,9505	0 0 0 0 0 0 1 1 2 2 4 6 8 12 13 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272 18408 27612 41418	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0722 0,0483 0,0722 0,0483 0,0722 0,1076 0,1599 0,2365 0,3472 0,5047 0,7230 1,0147 1,3848 1,8218 2,2901 2,7315 3,0843 3,3140 3,4548 3,4548 3,4325	0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272 18408 27612 41418	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	0,0001 0,0003 0,0004 0,0007 0,0007 0,0042 0,0063 0,0025 0,0143 0,0025 0,0143 0,0215 0,0042 0,0068 0,0095 0,0143 0,0215 0,0322 0,0481 0,0718 0,0718 0,1581 0,2325 0,3388 0,4873 1,2661 1,9672 2,2447 2,3913 2,2495 2,0714 1,9285 2,0714 1,9285 2,0714 1,9285 2,0714	0 0 0 0 0 1 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 808 1212 1818 2727 4091 6136 9204 13806 20709 31064	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0721 0,1075 0,1597 0,2361 0,3464 0,5030 0,7195 1,0079 1,3719 1,7989 2,2511 2,6685 2,9871 3,1694 3,2217 3,1801 3,0819 2,9505 2,8006	0 0 0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272 18408 27612	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0722 0,1076 0,1599 0,2365 0,3472 0,5047 0,7230 1,0147 1,3848 1,8218 2,2901 2,7315 3,0843 3,3140 3,4296 3,4684 3,4684	0 0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718 1077 1515 2424 3635 5454 8181 12272 18408 27612	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	0,0001 0,0003 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0042 0,0063 0,0042 0,0042 0,0058 0,0143 0,0215 0,0322 0,0443 0,0215 0,0322 0,0443 0,0215 0,0322 0,0443 0,01581 0,2325 0,3388 0,4873 0,5884 1,2661 1,5620 1,9672 2,2447 2,3913 2,3819 2,2495 2,0714 1,9285 1,8875 1,8875 1,8875	0 0 0 0 0 1 1 1 1 2 3 4 6 9 14 2 1 3 2 47 71 106 160 239 359 539 808 1212 1818 2727 4091 6136 9204 13806 20709 31064 46596	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0007 0,0012 0,0042 0,0042 0,0043 0,0025 0,0143 0,0215 0,0322 0,0483 0,0721 0,1597 0,2361 0,3464 0,5030 0,7195 1,0079 1,3719 1,7889 2,2511 2,6685 2,9871 3,1694 3,2217 3,1801 3,0819 2,9505 2,8006 2,6466	0 0 0 0 0 0 1 1 2 2 4 6 8 12 13 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272 18408 27612 41418	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0,0001 0,0003 0,0004 0,0007 0,0011 0,0018 0,0027 0,0042 0,0063 0,0095 0,0143 0,0215 0,0322 0,0483 0,0215 0,0322 0,0483 0,0722 0,1076 0,1599 0,2365 0,3472 0,5047 0,7230 1,0147 1,3848 1,8218 2,2901 2,7315 3,0843 3,3140 3,4296 3,4648 3,4325 3,3681 3,2624	0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272 18408 27612 41418	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

## Appendix M: Data influence of diffusivity Gesso on cup deformation

## Appendix N: Data Influence of elastic moduli Gesso on twist deformation

Displ [mm]	1/2 Width	Twist [degrees]	time [sec.]		E = 760 MP	a Displ [mm]	-	Twist [degrees]	time [sec.]		E = 500 N
-0,0001	100	-7,17504E-05	0	0		-0,0001	100	-7,2403E-05	0	0	
-0,0002	100	-0,000139277	0	0		-0,0002	100	-0,000140544	0	0	1
-0,0005	100	-0,000274324	0	0		-0,0005	100	-0,000276819	0	0	
-0,0008	100	-0,000476876	0	0		-0,0008	100	-0,000481213	0	0	
-0,0014	100	-0,000780665	ů 0	0		-0,0014	100	-0,000787765	ō	ō	1
-0,0014	100	-0,00123626	0	0		-0,0014	100	-0,001247501	0	0	1
		•		0						0	
-0,0034	100	-0,001919454	0			-0,0034	100	-0,001936907	0		
-0,0051	100	-0,002943805	1	0		-0,0052	100	-0,002970563	1	0	
-0,0078	100	-0,004479315	1	0		-0,0079	100	-0,004520024	1	0	
-0,0118	100	-0,006780325	2	0		-0,0119	100	-0,006841918	2	0	
-0,0178	100	-0,010226781	2	0		-0,0180	100	-0,010319657	2	0	
-0,0269	100	-0,01538512	4	0		-0,0271	100	-0,015524635	4	0	
-0,0403	100	-0,023097131	5	0		-0,0407	100	-0,023306318	6	0	
				0						0	
-0,0604	100	-0,034608194	8			-0,0609	100	-0,034921028	8		
-0,0903	100	-0,051747872	12	0		-0,0911	100	-0,052214202	12	0	
-0,1347	100	-0,077175649	19	0		-0,1359	100	-0,077867781	19	0	
-0,2002	100	-0,114695684	28	0	Twist	-0,2020	100	-0,115717837	28	0	Twist
-0,2960	100	-0,169619076	42	0		-0,2987	100	-0,171115629	42	0	
-0,4347	100	-0,249083811	63	0		-0,4385	100	-0,251247831	63	0	
-0,6320	100	-0,362115391	95	0		-0,6374	100	-0,365191478	95	ō	
		-									
-0,9059	100	-0,519001342	142	0		-0,9133	100	-0,523268379	142	0	
- <b>1,272</b> 9	100	-0,72928432	213	0		-1,2829	100	-0,734995777	213	0	
-1,7411	100	-0,997476033	319	0		-1,7538	100	-1,004761831	319	0	
-2,2972	100	-1,315984375	479	0		-2,3123	100	-1,324625718	479	0	
-2,8908	100	-1,655850974	718	0		-2,9069	100	-1,665056399	718	0	
-3,4213	100	-1,959490471	1077	0		-3,4354	100	-1,967565414	1077	ō	
-3,7437	100	-2,143980855	1615	0		-3,7510	100	-2,148163303	1615	0	
-3,7112	100	-2,125391284	2424	1		-3,7051	100	-2,121901041	2424	1	
-3,2478	100	-1,860204176	3636	1		-3,2208	100	-1,844756205	3636	1	
-2,4033	100	-1,376718725	5454	2		-2,3486	100	-1,345418522	5454	2	
-1,3403	100	-0,767889354	8181	2		-1,2534	100	-0,718101968	8181	2	
-0,2627	100	-0,150522542	12272	3		-0,1421	100	-0,08142355	12272	3	
0,6686	100	0,38305955	18408	5		0,8215	100	0,470650751	18408	5	
1,3882	100	0,795328925	27612	8		1,5704	100	0,899710423	27612	8	
1,9210 2,3226	100	1,100516565	41418	12		2,1293	100	1,219808977	41418	12 17	
1 2116											
	100	1,330506836	62127	17		2,5536	100	1,462764223	62127		
2,5220	100	1,480371055	62127 86400	24		2,5536 2,8311	100 100	1,462764223 1,621690544	62127 86400	24	
2,5843	100	1,480371055	86400	24	E (2011)	2,8311	100	1,621690544	85400	24	E 600 M
2,5843 Displ [mm]	100 1/2 Width	1,480371055 Twist [degrees]	86400 time [sec.]	24 time (h)	E=600 MPa	2,8311 Displ [mm]	100 1/2 Width	1,621690544 Twist [degrees]	85400 time [sec.]	24 time (h)	E = 900 M
2,5843 Displ [mm] -0,0001	100 1/2 Width 100	1,480371055 Twist [degrees] -7,21423E-05	86400 time [sec.]	24 time (h) 0	E=600 MPa	2,8311 Displ [mm] -0,0001	100 1/2 Width 100	1,621690544 Twist [degrees] -7,14306E-05	85400 time [sec.] 0	24 time (h) 0	E=900 M
2,5843 Displ [mm] -0,0001 -0,0002	100 1/2 Width 100 100	1,480371055 Twist [degrees] -7,21423E-05 -0,000140038	86400 time [sec.] 0 0	24 time (h) 0 0	E=600 MPa	2,8311 Displ [mm] -0,0001 -0,0002	100 1/2 Width 100 100	1,621690544 Twist [degrees] -7,14306E-05 -0,000138656	85400 time [sec.] 0 0	24 time (h) 0 0	E = 900 M
2,5843 Displ [mm] -0,0001	100 1/2 Width 100	1,480371055 Twist [degrees] -7,21423E-05 -0,000140038 -0,000275822	86400 time [sec.]	24 time (h) 0	E=600 MPa	2,8311 Displ [mm] -0,0001	100 1/2 Width 100	1,621690544 Twist [degrees] -7,14306E-05	85400 time [sec.] 0	24 time (h) 0	E = 900 M
2,5843 Displ [mm] -0,0001 -0,0002	100 1/2 Width 100 100	1,480371055 Twist [degrees] -7,21423E-05 -0,000140038	86400 time [sec.] 0 0	24 time (h) 0 0	E=600 MPa	2,8311 Displ [mm] -0,0001 -0,0002	100 1/2 Width 100 100	1,621690544 Twist [degrees] -7,14306E-05 -0,000138656	85400 time [sec.] 0 0	24 time (h) 0 0	E=900 M
2,5843 Displ [mm] -0,0001 -0,0002 -0,0005 -0,0008	100 1/2 Width 100 100 100 100	1,480371055	86400 time [sec.] 0 0 0 0 0	24 time (h) 0 0 0 0	E=600 MPa	2,8311 Displ [mm] -0,0001 -0,0002 -0,0005 -0,0008	100 1/2 Width 100 100 100 100	1,521690544 Twist [degrees] -7,14306E-05 -0,000138655 -0,000273101 -0,000474751	86400 time [sec.] 0 0 0 0 0	24 time (h) 0 0 0 0	E=900 M
2,5843 Displ [mm] -0,0001 -0,0002 -0,0005 -0,0008 -0,0014	100 1/2 Width 100 100 100 100 100	1,480371055 Twist [degrees] -7,21423E-05 -0,000140038 -0,000275822 -0,00047948 -0,000784929	85400 time [sec.] 0 0 0 0 0 0 0	24 time (h) 0 0 0 0 0 0	E=600 MPa	2,8311 Displ [mm] -0,0001 -0,0002 -0,0005 -0,0008 -0,0014	100 1/2 Width 100 100 100 100 100	1,621590544 Twist [degrees] -7,14306E-05 -0,000138555 -0,000273101 -0,000474751 -0,000777183	85400 time [sec.] 0 0 0 0 0 0	24 time (h) 0 0 0 0 0 0	E=900 M
2,5843 Displ [mm] -0,0001 -0,0002 -0,0005 -0,0008 -0,0014 -0,0022	100 1/2 Width 100 100 100 100 100 100	1,480371055 Twist [degrees] -7,21423E-05 -0,000140038 -0,000275822 -0,00047948 -0,000784929 -0,001243009	85400 time [sec.] 0 0 0 0 0 0 0 0 0	24 time (h) 0 0 0 0 0 0 0 0	E = 600 MPa	2,8311 Displ [mm] -0,0001 -0,0002 -0,0005 -0,0008 -0,0014 -0,0021	100 1/2 Width 100 100 100 100 100 100	1,621690544	86400 time [sec.] 0 0 0 0 0 0 0 0	24 time {h} 0 0 0 0 0 0 0	E = 900 M
2,5843 Displ [mm] -0,0001 -0,0002 -0,0005 -0,0008 -0,0014 -0,0022 -0,0034	100 1/2 Width 100 100 100 100 100 100 100	1,480371055 Twist [degrees] -7,21423E-05 -0,000140038 -0,000275822 -0,000778492 -0,000784929 -0,001243009 -0,001929934	86400 time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0	24 time (h) 0 0 0 0 0 0 0 0 0 0	E=600 MPa	2,8311 Displ [mm] -0,0001 -0,0002 -0,0005 -0,0008 -0,0014 -0,0021 -0,0033	100 1/2 Width 100 100 100 100 100 100 100	1,621690544	85400 time [sec.] 0 0 0 0 0 0 0 0 0 0	24 time {h} 0 0 0 0 0 0 0 0 0 0	E = 900 M
2,5843 Displ [mm] -0,0001 -0,0002 -0,0005 -0,0008 -0,0014 -0,0022 -0,0034 -0,0052	100 1/2 Width 100 100 100 100 100 100 100 100	1,480371055 -7,21423E-05 -0,000140038 -0,000275822 -0,00078492 -0,00078492 -0,001243009 -0,001292934 -0,0012959871	86400 time [sec.] 0 0 0 0 0 0 0 0 0 0 1	24 time (h) 0 0 0 0 0 0 0 0 0 0 0	E = 600 MPa	2,8311 Displ[mm] -0,0001 -0,0002 -0,0008 -0,0004 -0,0021 -0,0033 -0,0051	100 1/2 Width 100 100 100 100 100 100 100 100	1,621690544	85400 time [sec.] 0 0 0 0 0 0 0 0 1	24 time (h) 0 0 0 0 0 0 0 0 0 0 0	E = 900 M
2,5843 Displ [mm] -0,0001 -0,0002 -0,0008 -0,0014 -0,0034 -0,0034 -0,0052 -0,0034	100 1/2 Width 100 100 100 100 100 100 100 100 100	1,480371055 Twist [degrees] -7,21423E-05 -0,000140038 -0,000275822 -0,000784929 -0,001243009 -0,001229934 -0,00259871 -0,004503758	86400	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0	E=600 MPa	2,8311 Displ[mm] -0,0001 -0,0002 -0,0008 -0,0004 -0,0014 -0,0021 -0,0033 -0,0051 -0,0078	100 1/2 Width 100 100 100 100 100 100 100 100 100	1,621690544	85400 time [sec.] 0 0 0 0 0 0 0 0 1 1	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 900 M
2,5843 Displ [mm] -0,0001 -0,0002 -0,0005 -0,0008 -0,0014 -0,0022 -0,0034 -0,0052	100 1/2 Width 100 100 100 100 100 100 100 100	1,480371055 -7,21423E-05 -0,000140038 -0,000275822 -0,00078492 -0,00078492 -0,001243009 -0,001292934 -0,0012959871	86400 time [sec.] 0 0 0 0 0 0 0 0 0 0 1	24 time (h) 0 0 0 0 0 0 0 0 0 0 0	E = 600 MPa	2,8311 Displ[mm] -0,0001 -0,0002 -0,0008 -0,0004 -0,0021 -0,0033 -0,0051	100 1/2 Width 100 100 100 100 100 100 100 100	1,621690544	85400 time [sec.] 0 0 0 0 0 0 0 0 1	24 time (h) 0 0 0 0 0 0 0 0 0 0 0	E=900 N
2,5843 Displ [mm] -0,0001 -0,0002 -0,0008 -0,0014 -0,0034 -0,0034 -0,0052 -0,0034	100 1/2 Width 100 100 100 100 100 100 100 100 100	1,480371055 Twist [degrees] -7,21423E-05 -0,000140038 -0,000275822 -0,000784929 -0,001243009 -0,001229934 -0,00259871 -0,004503758	86400	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0	E=600 MPa	2,8311 Displ[mm] -0,0001 -0,0002 -0,0008 -0,0004 -0,0014 -0,0021 -0,0033 -0,0051 -0,0078	100 1/2 Width 100 100 100 100 100 100 100 100 100	1,621690544	85400 time [sec.] 0 0 0 0 0 0 0 0 1 1	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0	E=900 M
2,5843 Displ [mm] -0,0001 -0,0005 -0,0008 -0,0014 -0,0022 -0,0034 -0,0052 -0,0034 -0,0052 -0,0079 -0,0119 -0,0179	100 1/2 Width 100 100 100 100 100 100 100 100 100 10	1,480371055 Twist [degrees] -7,21423E-05 -0,000140038 -0,000275822 -0,00047948 -0,000784929 -0,001243009 -0,0012959871 -0,004503758 -0,006817338	85400 time [sec.] 0 0 0 0 0 0 0 0 1 1 1 2	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 600 MPa	2,8311 Displ[mm] -0,0001 -0,0002 -0,0008 -0,0014 -0,0021 -0,0033 -0,0051 -0,0051 -0,0051 -0,0078 -0,0118 -0,0178	100 1/2 Width 100 100 100 100 100 100 100 100 100 10	1,621690544	85400 time [sec.] 0 0 0 0 0 0 0 1 1 1 2	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E=900 M
2,5843 Displ [mm] -0,0001 -0,0002 -0,0008 -0,0008 -0,0014 -0,0022 -0,0034 -0,0052 -0,0034 -0,0059 -0,0079 -0,0179 -0,0179 -0,0270	100 1/2 Width 100 100 100 100 100 100 100 100 100 10	1,480371055 Twist [degrees] -7,21423E-05 -0,000140038 -0,000275822 -0,00047948 -0,000784929 -0,001243009 -0,001929934 -0,001929934 -0,00255871 -0,004503758 -0,004503758 -0,01028253 -0,01028253 -0,015468886	86400 time [sec.] 0 0 0 0 0 0 0 1 1 2 2 4 4	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 600 MPa	2,8311 Displ[mm] -0,0001 -0,0002 -0,0008 -0,0014 -0,0021 -0,0033 -0,0051 -0,0051 -0,0078 -0,0118 -0,0178 -0,0178 -0,0267	100 1/2 Width 100 100 100 100 100 100 100 100 100 10	1,621690544	85400 time [sec.] 0 0 0 0 0 0 0 1 1 2 2 4	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E=900 N
2,5843 Displ [mm] -0,0001 -0,0002 -0,0008 -0,0014 -0,0022 -0,0034 -0,0052 -0,0079 -0,0119 -0,0179 -0,0179 -0,0270 -0,0405	100 1/2 Width 100 100 100 100 100 100 100 100 100 10	1,480371055 Twist [degrees] -7,21423E-05 -0,000140038 -0,000275822 -0,000784929 -0,001929934 -0,001929934 -0,00192993758 -0,004503758 -0,004503758 -0,004503758 -0,004503758 -0,002553 -0,015468885 -0,02322278	86400 time [sec.] 0 0 0 0 0 0 0 0 1 1 2 2 4 5	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 600 MPa	2,8311 Displ[mm] -0,0001 -0,0002 -0,0003 -0,0004 -0,0021 -0,0033 -0,0051 -0,0078 -0,0118 -0,0118 -0,0178 -0,0267 -0,0401	100 1/2 Width 100 100 100 100 100 100 100 100 100 10	1,621690544	85400 time [sec.] 0 0 0 0 0 0 0 1 1 2 2 4 5	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E=900 N
2,5843 Displ [mm] -0,0001 -0,0005 -0,0008 -0,0014 -0,0022 -0,0034 -0,0052 -0,0034 -0,0052 -0,0079 -0,0179 -0,0179 -0,0179 -0,0270 -0,0405 -0,0607	100 1/2 Width 100 100 100 100 100 100 100 100 100 10	1,480371055 -7,21423E-05 -0,000140038 -0,000275822 -0,00078492 -0,00078492 -0,001243009 -0,001243009 -0,0012959871 -0,004503758 -0,004503758 -0,000817338 -0,01028253 -0,01028253 -0,01028253 -0,0128263 -0,0128253 -0,0128253	86400 time [sec.] 0 0 0 0 0 0 0 0 1 1 2 2 4 5 8	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 600 MPa	2,8311 Displ [mm] -0,0001 -0,0002 -0,0003 -0,0014 -0,003 -0,0014 -0,003 -0,0051 -0,0078 -0,0118 -0,0178 -0,0178 -0,0178 -0,0267 -0,0601	100 1/2 Width 100 100 100 100 100 100 100 100 100 10	1,621690544	85400 time [sec.] 0 0 0 0 0 0 0 1 1 2 2 4 5 8	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E=900 M
2,5843 Displ [mm] -0,0001 -0,0005 -0,0008 -0,0014 -0,0022 -0,0034 -0,0052 -0,0034 -0,0052 -0,0079 -0,0119 -0,0179 -0,0270 -0,0270 -0,0270 -0,0270 -0,0405 -0,0607 -0,0607 -0,0908	100 1/2 Width 100 100 100 100 100 100 100 10	1,480371055 Twist [degrees] -7,21423E-05 -0,000140038 -0,000275822 -0,00047948 -0,000784929 -0,001243009 -0,001243009 -0,00124503758 -0,00259871 -0,004503758 -0,0024503758 -0,015468885 -0,01546886 -0,0322278 -0,0322278 -0,052027877	86400 time [sec.] 0 0 0 0 0 0 0 0 1 1 2 2 4 5 8 12	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0	E=600 MPa	2,8311 Displ[mm] -0,0001 -0,0005 -0,0008 -0,0014 -0,0021 -0,0031 -0,0051 -0,0051 -0,0078 -0,0118 -0,0178 -0,0178 -0,0257 -0,0401 -0,0691 -0,0899	100 1/2 Width 100 100 100 100 100 100 100 10	1,621690544	85400 time [sec.] 0 0 0 0 0 0 0 0 1 1 2 2 4 5 8 12	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E=900 M
2,5843 Displ [mm] -0,0001 -0,0002 -0,0005 -0,0008 -0,0014 -0,0022 -0,0034 -0,0052 -0,0034 -0,0052 -0,0034 -0,0079 -0,0179 -0,0179 -0,0179 -0,0270 -0,0405 -0,0405 -0,0405 -0,0405 -0,0405 -0,0405 -0,0405 -0,0405 -0,0405 -0,0405 -0,0405 -0,0405 -0,0405 -0,0002 -0,0008 -0,0014 -0,0022 -0,0005 -0,0008 -0,0014 -0,0022 -0,0034 -0,005 -0,005 -0,005 -0,005 -0,005 -0,0008 -0,0014 -0,0002 -0,0005 -0,0008 -0,0014 -0,0005 -0,0005 -0,0008 -0,0014 -0,0005 -0,0005 -0,0008 -0,0014 -0,0052 -0,005 -0,005 -0,005 -0,0008 -0,005 -0,0008 -0,005 -0,0008 -0,005 -0	100 1/2 width 100 100 100 100 100 100 100 100 100 10	1,480371055 Twist [degrees] -7,21423E-05 -0,000140038 -0,000275822 -0,000275822 -0,0002758429 -0,001243009 -0,001243009 -0,001259871 -0,004503758 -0,004503758 -0,004503758 -0,015468886 -0,02322278 -0,034796009 -0,052027877 -0,077591043	86400 time [sec.] 0 0 0 0 0 0 0 0 0 1 1 2 2 4 5 8 12 19	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,8311 Displ[mm] -0,0001 -0,0002 -0,0008 -0,0014 -0,0021 -0,0033 -0,0014 -0,0031 -0,0078 -0,0178 -0,0178 -0,0178 -0,0178 -0,0267 -0,0401 -0,0601 -0,0699 -0,1341	100 1/2 Width 100 100 100 100 100 100 100 10	1,621590544	85400 time [sec.] 0 0 0 0 0 0 0 0 0 1 1 2 2 4 6 8 12 19	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
2,5843 Displ [mm] -0,0001 -0,0005 -0,0008 -0,0014 -0,0022 -0,0034 -0,0052 -0,0034 -0,0052 -0,0079 -0,0119 -0,0179 -0,0270 -0,0270 -0,0270 -0,0270 -0,0405 -0,0607 -0,0607 -0,0908	100 1/2 Width 100 100 100 100 100 100 100 10	1,480371055 Twist [degrees] -7,21423E-05 -0,000140038 -0,000275822 -0,00047948 -0,000784929 -0,001243009 -0,001243009 -0,00124503758 -0,00259871 -0,004503758 -0,0024503758 -0,015468885 -0,01546886 -0,0322278 -0,0322278 -0,052027877	86400 time [sec.] 0 0 0 0 0 0 0 0 1 1 2 2 4 5 8 12	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 600 MPa	2,8311 Displ[mm] -0,0001 -0,0005 -0,0008 -0,0014 -0,0021 -0,0031 -0,0051 -0,0051 -0,0078 -0,0118 -0,0178 -0,0178 -0,0257 -0,0401 -0,0691 -0,0899	100 1/2 Width 100 100 100 100 100 100 100 10	1,621690544	85400 time [sec.] 0 0 0 0 0 0 0 0 1 1 2 2 4 5 8 12	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
2,5843 Displ [mm] -0,0001 -0,0005 -0,0008 -0,0014 -0,0022 -0,0034 -0,0052 -0,0034 -0,0052 -0,0034 -0,0052 -0,0079 -0,0179 -0,0179 -0,0179 -0,0270 -0,0405 -0,0607 -0,0508 -0,0508 -0,0508 -0,0507 -0,0508 -0,0507 -0,0508 -0,0508 -0,0507 -0,0508 -0,0508 -0,0507 -0,0508 -	100 1/2 width 100 100 100 100 100 100 100 100 100 10	1,480371055 Twist [degrees] -7,21423E-05 -0,000140038 -0,000275822 -0,000275822 -0,0002758429 -0,001243009 -0,001243009 -0,001259871 -0,004503758 -0,004503758 -0,004503758 -0,015468886 -0,02322278 -0,034796009 -0,052027877 -0,077591043	86400 time [sec.] 0 0 0 0 0 0 0 0 0 1 1 2 2 4 5 8 12 19	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,8311 Displ[mm] -0,0001 -0,0002 -0,0008 -0,0014 -0,0021 -0,0033 -0,0014 -0,0031 -0,0078 -0,0178 -0,0178 -0,0178 -0,0178 -0,0267 -0,0401 -0,0601 -0,0699 -0,1341	100 1/2 Width 100 100 100 100 100 100 100 10	1,621590544	85400 time [sec.] 0 0 0 0 0 0 0 0 0 1 1 2 2 4 6 8 12 19	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
2,5843 Displ [mm] -0,0001 -0,0002 -0,0008 -0,0014 -0,0022 -0,0034 -0,0052 -0,0079 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0405 -0,0607 -0,005 -0,005 -0,0008 -0,0014 -0,0022 -0,0005 -0,0008 -0,0008 -0,0005 -0,0008 -0,0008 -0,0005 -0,0008 -0,0005 -0,0008 -0,0005 -0,0008 -0,0005 -0,0008 -0,0005 -0,0007 -0,0005 -0,0079 -0,0079 -0,00607 -0,00607 -0,0067 -0,00607 -0,00607 -0,0079 -0,0079 -0,0079 -0,0079 -0,0052 -0,0067 -0,0067 -0,0067 -0,0067 -0,0067 -0,0067 -0,0067 -0,0067 -0,0079 -0,0079 -0,0079 -0,0079 -0,0079 -0,0079 -0,0052 -0,0079 -0,0079 -0,0052 -0,0067 -0,0052 -0,0067 -0,0052 -0,0067 -0,0067 -0,0058	100 1/2 Width 100 100 100 100 100 100 100 10	1,480371055 -7,21423E-05 -0,000140038 -0,000275822 -0,00047948 -0,00078429 -0,001243009 -0,001929934 -0,00255871 -0,004503758 -0,006817338 -0,0028253 -0,005817338 -0,015468886 -0,02322278 -0,034796009 -0,052027877 -0,07591043 -0,115309319 -0,170517466	86400  time [sec.]  0  0  0  0  0  0  1  1  2  2  4  6  8  12  19  28  42	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,8311 Displ[mm] -0,0001 -0,0002 -0,0003 -0,0004 -0,0021 -0,0033 -0,0051 -0,0078 -0,0118 -0,0178 -0,0118 -0,0178 -0,0257 -0,0401 -0,0601 -0,0699 -0,1341 -0,0939 -0,2948	100 1/2 Width 100 100 100 100 100 100 100 10	1,621690544 Twist [degrees] -7,14306E-05 -0,000138656 -0,000273101 -0,000777183 -0,001230753 -0,001230753 -0,0019109 -0,002930685 -0,004459365 -0,00455115708 -0,022994571 -0,051519377 -0,05151937 -0,05151937 -0,05151937 -0,05151937 -0,05151937 -0,05151937 -0,05151937 -0,0515193 -0,0515193 -0,0515193 -0,0515193 -0,0515193 -0,0515193 -0,0515193 -0,051519 -0,0515	85400 time [sec.] 0 0 0 0 0 0 0 0 1 1 2 2 4 6 8 12 19 28 42	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
2,5843 Displ [mm] -0,0001 -0,0005 -0,0008 -0,0014 -0,0022 -0,0014 -0,0052 -0,0034 -0,0052 -0,0079 -0,0119 -0,0179 -0,0179 -0,0179 -0,0270 -0,0405 -0,0607 -0,0607 -0,0908 -0,1354 -0,2976 -0,2976 -0,4370	100 1/2 Width 100 100 100 100 100 100 100 10	1,480371055 -7,21423E-05 -0,000140038 -0,000275822 -0,00078492 -0,001243009 -0,001243009 -0,001929934 -0,002959871 -0,004503758 -0,006817338 -0,0028253 -0,015468886 -0,02322278 -0,034796009 -0,052027877 -0,077591043 -0,015309319 -0,170517466 -0,250382681	85400 time [sec.] 0 0 0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0		2,8311 Displ [mm] -0,0001 -0,0002 -0,0003 -0,0014 -0,0031 -0,0031 -0,0078 -0,0078 -0,0118 -0,0178 -0,0178 -0,0178 -0,0178 -0,018 -0,0178 -0,0257 -0,0401 -0,0601 -0,0601 -0,0601 -0,0601 -0,0601 -0,0601 -0,0601 -0,0601 -0,0839 -0,1341 -0,1933 -0,2938 -0,2948 -0,2948 -0,2948 -0,2948 -0,2948 -0,2948 -0	100 1/2 Width 100 100 100 100 100 100 100 10	1,621690544	85400 time [sec.] 0 0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
2,5843 Displ [mm] -0,0001 -0,0005 -0,0008 -0,0014 -0,0022 -0,0034 -0,0052 -0,0079 -0,0119 -0,0179 -0,0179 -0,0179 -0,0179 -0,0270 -0,0405 -0,0607 -0,0908 -0,1354 -0,2013 -0,2976 -0,4370 -0,4370 -0,6352	100 1/2 Width 100 100 100 100 100 100 100 10	1,480371055 Twist [degrees] -7,21423E-05 -0,000140038 -0,000275822 -0,00047948 -0,000784929 -0,001243009 -0,001243009 -0,0012959871 -0,004503758 -0,0024503758 -0,0024503758 -0,0124658 -0,01546886 -0,02322278 -0,037291043 -0,17591043 -0,17591043 -0,175917466 -0,250382681 -0,363960814	86400 time [sec.] 0 0 0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0		2,8311 Displ[mm] -0,0001 -0,0005 -0,0008 -0,0014 -0,0021 -0,0031 -0,0051 -0,0051 -0,0051 -0,0051 -0,0078 -0,0118 -0,0178 -0,0178 -0,0178 -0,0267 -0,0401 -0,0699 -0,1341 -0,1993 -0,2948 -0,4329 -0,6294	100 1/2 Width 100 100 100 100 100 100 100 10	1,621690544	85400 time [sec.] 0 0 0 0 0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0	E=900 M
2,5843 Displ [mm] -0,0001 -0,0005 -0,0008 -0,0014 -0,0022 -0,0034 -0,0052 -0,0034 -0,0052 -0,0079 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0079 -0,0057 -0,0005 -0,0005 -0,0008 -0,0014 -0,0002 -0,0008 -0,0014 -0,0002 -0,0014 -0,0002 -0,0014 -0,0002 -0,0014 -0,0002 -0,0014 -0,0002 -0,0014 -0,0005 -0,0008 -0,0014 -0,0005 -0,0008 -0,0014 -0,0005 -0,0008 -0,0014 -0,0005 -0,0008 -0,0014 -0,0005 -0,0014 -0,0005 -0,0014 -0,0052 -0,0034 -0,0059 -0,0079 -0,00405 -0,00405 -0,00405 -0,0059 -0,00405 -0,00405 -0,00405 -0,0057 -0,00405 -0,0050 -0,0050 -0,0052 -0,0057 -0,0050 -0,0050 -0,0052 -0,0057 -0,0050 -0,0052 -0,0058 -0,0052 -0,0057 -0,0050 -0,0058 -0,0058 -0,0059 -0,0057 -0,0058 -0,0058 -0,0058 -0,0058 -0,0058 -0,0058 -0,0058 -0,0058 -0,0058 -0,0058 -0,0058 -0,0058 -0,0058 -0,0058 -0,0058 -0,0058 -0,0057 -0,0058 -0,	100 1/2 width 100 100 100 100 100 100 100 10	1,480371055 Twist [degrees] -7,21423E-05 -0,000140038 -0,000275822 -0,000275822 -0,000275829 -0,001243009 -0,001243009 -0,0012959871 -0,00259871 -0,00259871 -0,00259871 -0,0025027877 -0,015468886 -0,03222787 -0,07551043 -0,115309319 -0,175517466 -0,250382681 -0,363960814 -0,3521560533	86400 time [sec.] 0 0 0 0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 19 28 42 5 19 28 42 5 19 28 42 19 28 142 19 28 142 19 28 142 19 28 142 19 28 142 19 28 142 19 28 142 19 28 142 19 19 28 142 19 19 19 19 19 19 19 19 19 19	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0		2,8311 Displ[mm] -0,0001 -0,0002 -0,0008 -0,0014 -0,0021 -0,0033 -0,0014 -0,0031 -0,0031 -0,0051 -0,0051 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,0267 -0,0401 -0,0601 -0,0691 -0,0403 -0,0258 -0,0401 -0,0403 -0,0298 -0,0298 -0,0294 -0	100 1/2 Width 100 100 100 100 100 100 100 10	1,621590544	85400 time [sec.] 0 0 0 0 0 0 0 0 0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
2,5843 Displ [mm] -0,0001 -0,0005 -0,0008 -0,0014 -0,0022 -0,0034 -0,0052 -0,0034 -0,0052 -0,0039 -0,0179 -0,0179 -0,0179 -0,0179 -0,0270 -0,0405 -0,0405 -0,0405 -0,0405 -0,0405 -0,0405 -0,0405 -0,0405 -0,0405 -0,0405 -0,0405 -0,0405 -0,0405 -0,0405 -0,0405 -0,0005 -0,	100 1/2 Width 100 100 100 100 100 100 100 10	1,480371055 Twist [degrees] -7,21423E-05 -0,000140038 -0,000275822 -0,00047948 -0,0001494929 -0,001243009 -0,001292934 -0,001292934 -0,00255871 -0,004503758 -0,004503758 -0,004503758 -0,0028253 -0,01028253 -0,01028253 -0,01028253 -0,01028253 -0,01028253 -0,01028253 -0,01028253 -0,01028253 -0,01028253 -0,01028253 -0,01028253 -0,01028253 -0,01028253 -0,0232278 -0,0232278 -0,0232278 -0,0232278 -0,0232278 -0,0232278 -0,0521560533 -0,52271005 -0,73271005 -0,0521560533 -0,73271005 -0,07271005 -0,0521560533 -0,03271005 -0,0521560533 -0,03271005 -0,0521560533 -0,03271005 -0,0521560533 -0,03271005 -0,0521560533 -0,03271005 -0,0521560533 -0,03271005 -0,0521560533 -0,03271005 -0,0521560533 -0,03271005 -0,0521560533 -0,03271005 -0,0521560533 -0,0521560533 -0,03271005 -0,0521560533 -0,03271005 -0,0521560533 -0,03271005 -0,0521560533 -0,03271005 -0,0521560533 -0,03271005 -0,0521560533 -0,03271005 -0,05215605 -0,0521560533 -0,03271005 -0,0521560533 -0,03271005 -0,0521560533 -0,03271005 -0,0521560533 -0,03271005 -0,0521560533 -0,03271005 -0,052156 -0,052156	86400  time [sec.]  0  0  0  0  0  1  1  1  2  2  4  5  8  12  19  28  42  63  95  142  213	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,8311 Displ[mm] -0,0001 -0,0002 -0,0008 -0,0014 -0,0021 -0,0033 -0,0051 -0,0051 -0,0051 -0,0051 -0,0051 -0,0051 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,018 -0,018 -0,018 -0,0401 -0,0601 -0,0298 -0,0248 -0,0258 -0,0248 -0,0258 -0,0588 -0,05	100 1/2 Width 100 100 100 100 100 100 100 10	1,621690544	85400 time [sec.] 0 0 0 0 0 0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
2,5843 Displ [mm] -0,0001 -0,0002 -0,0008 -0,0014 -0,0022 -0,0034 -0,0022 -0,0034 -0,0079 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0270 -0,0405 -0,0405 -0,0607 -0,0607 -0,0607 -0,0607 -0,0607 -0,0607 -0,0607 -0,0220 -0,0038 -0,2013 -0,2013 -0,2013 -0,2013 -0,2013 -0,2013 -0,2013 -0,2013 -0,2013 -0,2013 -0,2013 -0,2013 -0,2013 -0,2013 -0,2013 -0,2013 -0,2015 -0,2015 -0,0005 -0,0008 -0,0009 -0,0079 -0,0079 -0,0020 -0,0028 -0,0027 -0,0029 -0,0029 -0,0028 -0,0038 -0,0029 -0,0038 -0,0038 -0,0058 -	100 1/2 width 100 100 100 100 100 100 100 10	1,480371055 Twist [degrees] -7,21423E-05 -0,000140038 -0,000275822 -0,000275822 -0,000275829 -0,001243009 -0,001243009 -0,0012959871 -0,00259871 -0,00259871 -0,00259871 -0,0025027877 -0,015468886 -0,03222787 -0,07551043 -0,115309319 -0,175517466 -0,250382681 -0,363960814 -0,3521560533	86400 time [sec.] 0 0 0 0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 19 28 42 5 19 28 42 5 19 28 42 19 28 142 19 28 142 19 28 142 19 28 142 19 28 142 19 28 142 19 28 142 19 28 142 19 19 28 142 19 19 19 19 19 19 19 19 19 19	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0		2,8311 Displ[mm] -0,0001 -0,0002 -0,0008 -0,0014 -0,0021 -0,0033 -0,0014 -0,0031 -0,0031 -0,0051 -0,0051 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,0267 -0,0401 -0,0601 -0,0691 -0,0403 -0,0258 -0,0401 -0,0403 -0,0298 -0,0298 -0,0294 -0	100 1/2 Width 100 100 100 100 100 100 100 10	1,621590544	85400 time [sec.] 0 0 0 0 0 0 0 0 0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
2,5843 Displ [mm] -0,0001 -0,0002 -0,0005 -0,0008 -0,0014 -0,0022 -0,0034 -0,0052 -0,0034 -0,0059 -0,0079 -0,0179 -0,0179 -0,0179 -0,0270 -0,0405 -0,0405 -0,0405 -0,0405 -0,0405 -0,0405 -0,0405 -0,0405 -0,0405 -0,0405 -0,057 -0,0405 -0,2975 -0,4370 -0,6352 -0,9103 -1,2789	100 1/2 Width 100 100 100 100 100 100 100 10	1,480371055 Twist [degrees] -7,21423E-05 -0,000140038 -0,000275822 -0,00047948 -0,0001494929 -0,001243009 -0,001292934 -0,001292934 -0,00255871 -0,004503758 -0,004503758 -0,004503758 -0,0028253 -0,01028253 -0,01028253 -0,01028253 -0,01028253 -0,01028253 -0,01028253 -0,01028253 -0,01028253 -0,01028253 -0,01028253 -0,01028253 -0,01028253 -0,01028253 -0,0232278 -0,0232278 -0,0232278 -0,0232278 -0,0232278 -0,0232278 -0,0521560533 -0,52271005 -0,73271005 -0,0521560533 -0,73271005 -0,07271005 -0,0521560533 -0,03271005 -0,0521560533 -0,03271005 -0,0521560533 -0,03271005 -0,0521560533 -0,03271005 -0,0521560533 -0,03271005 -0,0521560533 -0,03271005 -0,0521560533 -0,03271005 -0,0521560533 -0,03271005 -0,0521560533 -0,03271005 -0,0521560533 -0,0521560533 -0,03271005 -0,0521560533 -0,03271005 -0,0521560533 -0,03271005 -0,0521560533 -0,03271005 -0,0521560533 -0,03271005 -0,0521560533 -0,03271005 -0,05215605 -0,0521560533 -0,03271005 -0,0521560533 -0,03271005 -0,0521560533 -0,03271005 -0,0521560533 -0,03271005 -0,0521560533 -0,03271005 -0,052156 -0,052156	86400  time [sec.]  0  0  0  0  0  1  1  1  2  2  4  5  8  12  19  28  42  63  95  142  213	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,8311 Displ[mm] -0,0001 -0,0002 -0,0008 -0,0014 -0,0021 -0,0033 -0,0051 -0,0051 -0,0051 -0,0051 -0,0051 -0,0051 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,0401 -0,0602 -0,0429 -0,0248 -0,0248 -0,0258 -0,0248 -0,0258 -0	100 1/2 Width 100 100 100 100 100 100 100 10	1,621690544	85400 time [sec.] 0 0 0 0 0 0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
2,5843 Displ [mm] -0,0001 -0,0002 -0,0008 -0,0014 -0,0022 -0,0034 -0,0052 -0,0079 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0405 -0,0607 -0,0607 -0,0607 -0,0607 -0,0607 -0,0607 -0,0607 -0,0405 -0,052 -0,9354 -0,2976 -0,4370 -0,4370 -0,6352 -0,9103 -1,2789 -1,7487	100 1/2 Width 100 100 100 100 100 100 100 10	1,480371055 Twist [degrees] -7,21423E-05 -0,000140038 -0,000275822 -0,00047948 -0,000493934 -0,001243009 -0,001243009 -0,001292934 -0,00255871 -0,004503758 -0,004503758 -0,004503758 -0,004503758 -0,0034796009 -0,052027877 -0,0737591043 -0,170517466 -0,250382681 -0,250382681 -0,32506533 -0,73271005 -0,73271005 -0,73271005 -0,01840642	86400  time [sec.]  0  0  0  0  0  1  1  2  2  4  6  8  12  19  28  42  63  95  142  28  42  63  95  142  213  319	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,8311 -0,0001 -0,0002 -0,0005 -0,0008 -0,0014 -0,0021 -0,0033 -0,0051 -0,0078 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,0401 -0,0601 -0,0601 -0,0601 -0,0601 -0,0601 -0,0899 -0,1341 -0,1993 -0,2948 -0,4329 -0,6294 -0,6294 -0,6294 -0,6294 -0,6294 -0,5	100 1/2 Width 100 100 100 100 100 100 100 10	1,621690544	85400 time [sec.] 0 0 0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
2,5843 Displ [mm] -0,0001 -0,0005 -0,0004 -0,0014 -0,0022 -0,0034 -0,0052 -0,0034 -0,0052 -0,0079 -0,0119 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0270 -0,0405 -0,0607 -0,0908 -0,1354 -0,2976 -0,4370 -0,4370 -0,4370 -0,4370 -0,4370 -1,7487 -2,3063 -2,9004	100 1/2 Width 100 100 100 100 100 100 100 10	1,480371055 Twist [degrees] -7,21423E-05 -0,000140038 -0,00027822 -0,00047948 -0,000784929 -0,001243009 -0,001243009 -0,0012959871 -0,004503758 -0,00259871 -0,004503758 -0,012468865 -0,012468865 -0,03222787 -0,015468865 -0,037591043 -0,175517466 -0,250382681 -0,363960814 -0,521560533 -0,73271005 -1,001840642 -1,321149718 -1,661341036	86400 time [sec.] 0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 4 5 8 12 19 28 4 5 8 12 19 28 4 5 12 19 28 4 5 12 19 28 4 5 12 19 28 4 5 12 19 28 4 5 12 19 28 4 5 12 19 28 4 5 12 19 28 4 5 12 19 28 4 5 12 19 28 4 5 12 19 28 4 5 12 19 28 4 5 19 28 4 5 19 28 4 5 19 28 4 5 19 28 4 5 19 28 4 5 19 28 4 5 19 28 4 5 19 28 4 5 19 28 4 5 19 28 4 5 19 28 4 21 21 21 21 21 21 28 21 21 21 28 21 21 21 21 28 21 21 21 28 21 21 21 21 28 21 21 21 21 21 21 21 21 21 21	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,8311 Displ[mm] -0,0001 -0,0005 -0,0008 -0,0014 -0,0021 -0,0031 -0,0031 -0,0051 -0,0051 -0,0051 -0,0051 -0,0118 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,018 -0,0267 -0,0401 -0,0899 -0,1341 -0,1993 -0,2948 -0,4329 -0,5294 -0,9022 -1,2681 -1,7349 -2,2900 -2,8831	100 1/2 Width 100 100 100 100 100 100 100 10	1,621690544	85400 time [sec.] 0 0 0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
2,5843 Displ [mm] -0,0001 -0,0005 -0,0008 -0,0014 -0,0022 -0,0034 -0,0052 -0,0079 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0270 -0,0405 -0,4370 -0,5452 -0,9008 -1,7487 -2,3004 -3,4297	100 1/2 width 100 100 100 100 100 100 100 10	1,480371055 -7,21423E-05 -0,000140038 -0,000275822 -0,000275822 -0,00027582 -0,00027582 -0,001243009 -0,001243009 -0,00259871 -0,004503758 -0,004503758 -0,004503758 -0,004503758 -0,004503758 -0,00252278 -0,015468885 -0,02322278 -0,034796009 -0,052027877 -0,077591043 -0,115309319 -0,170517466 -0,250382681 -0,363960814 -0,521560533 -0,73271005 -1,001840622 -1,321149718 -1,561341035 -1,964274784	86400 time [sec.] 0 0 0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 19 27 19 28 42 21 31 31 95 142 213 319 47 718 718 718 718 718 718 718 71	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,8311 Displ[mm] -0,0001 -0,0002 -0,0003 -0,0014 -0,0021 -0,0033 -0,0014 -0,0031 -0,0031 -0,0078 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,018 -0,0178 -0,018 -0,018 -0,018 -0,018 -0,018 -0,018 -0,018 -0,018 -0,018 -0,018 -0,025 -0,0401 -0,0601 -0,0601 -0,0601 -0,0601 -0,0899 -0,1341 -0,1993 -0,2948 -0,248 -0,24	100 1/2 Width 100 100 100 100 100 100 100 100 100 10	1,621690544	85400 time [sec.] 0 0 0 0 0 0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
2,5843 Displ [mm] -0,0001 -0,0005 -0,0008 -0,0014 -0,0022 -0,0034 -0,0052 -0,0034 -0,0052 -0,0079 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0270 -0,0405 -0,0455 -0,04370 -0,0455 -0,9405	100 1/2 Width 100 100 100 100 100 100 100 10	1,480371055 -7,21423E-05 -0,000140038 -0,000275822 -0,000275822 -0,000275822 -0,000275822 -0,001243009 -0,001243009 -0,001243009 -0,00255871 -0,004503758 -0,004503758 -0,004503758 -0,004503758 -0,004503758 -0,004503758 -0,004503758 -0,004503758 -0,004503758 -0,00222278 -0,01284058 -0,0232278 -0,032207877 -0,077591043 -0,077591043 -0,115309319 -0,170517466 -0,250382581 -0,521560533 -0,521560533 -0,73271005 -1,001840642 -1,361341036 -1,364274784 -2,2146389627	86400  time [sec.]  0  0  0  0  0  1  1  2  2  4  5  8  12  19  28  42  63  95  142  213  319  479  718  1077  1616	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,8311 -0,0001 -0,0002 -0,0005 -0,0004 -0,0014 -0,0021 -0,0033 -0,0051 -0,0078 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,018 -0,018 -0,018 -0,018 -0,0193 -0,0267 -0,0401 -0,089 -0,1341 -0,1993 -0,2948 -0,4329 -0,2948 -0,4329 -0,2948 -0,4329 -0,2948 -0,4329 -0,2948 -0,4329 -0,2948 -0,4329 -0,2948	100 1/2 Width 100 100 100 100 100 100 100 100 100 10	1,621590544	85400 time [sec.] 0 0 0 0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
2,5843 Displ [mm] -0,0001 -0,0002 -0,0005 -0,0004 -0,0014 -0,0022 -0,0034 -0,0052 -0,0034 -0,0052 -0,0034 -0,0052 -0,0079 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0405 -0,0405 -0,0405 -0,0405 -0,0405 -0,0405 -0,0405 -0,0405 -0,0405 -0,0405 -0,0405 -0,0405 -1,2789 -1,2789 -1,2789 -1,2789 -1,2789 -2,3004 -3,4297 -3,7479 -3,7073	100 1/2 Width 100 100 100 100 100 100 100 10	1,480371055 -7,21423E-05 -0,000140038 -0,000275822 -0,00047948 -0,000494829 -0,001243009 -0,001929934 -0,00255871 -0,004503758 -0,0028253 -0,012468886 -0,02322278 -0,015468886 -0,0232278 -0,015468886 -0,0232278 -0,034796009 -0,052027877 -0,07591043 -0,115309319 -0,170517466 -0,250382681 -0,363960814 -0,521560533 -0,73271005 -1,001840642 -1,321149718 -1,661341036 -1,964274784 -2,214382627 -2,123142554	86400  time [sec.]  0  0  0  0  0  1  1  2  2  4  6  8  12  19  28  42  63  95  142  213  319  479  718  1077  1615  2424	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,8311 -0,0001 -0,0002 -0,0005 -0,0008 -0,0014 -0,0021 -0,0033 -0,0051 -0,0078 -0,0078 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,018 -0,0178 -0,0401 -0,0602 -0,2488 -0,2488 -0,2488 -0,2584 -1,7349 -2,2900 -2,8831 -3,7447 -3,7457 -3,74	100 1/2 Width 100 100 100 100 100 100 100 100 100 10	1,621690544	85400 time [sec.] 0 0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718 1077 1515 2424	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
2,5843 Displ [mm] -0,0001 -0,0005 -0,0008 -0,0014 -0,0022 -0,0034 -0,0052 -0,0034 -0,0052 -0,0079 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0270 -0,0405 -0,0455 -0,04370 -0,0455 -0,9405	100 1/2 Width 100 100 100 100 100 100 100 10	1,480371055 -7,21423E-05 -0,000140038 -0,000275822 -0,000275822 -0,000275822 -0,000275822 -0,001243009 -0,01243009 -0,01229334 -0,00255871 -0,004503758 -0,004503758 -0,004503758 -0,004503758 -0,004503758 -0,00252278 -0,004503758 -0,00252787 -0,075591043 -0,015468886 -0,0232278 -0,032207877 -0,077591043 -0,175017466 -0,250382581 -0,353960814 -0,521560533 -0,73271005 -1,001840642 -1,361341036 -1,364274784 -2,2146389627	86400  time [sec.]  0  0  0  0  0  1  1  2  2  4  5  8  12  19  28  42  63  95  142  213  319  479  718  1077  1616	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,8311 -0,0001 -0,0002 -0,0005 -0,0004 -0,0014 -0,0021 -0,0033 -0,0051 -0,0078 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,018 -0,018 -0,018 -0,018 -0,0193 -0,0267 -0,0401 -0,089 -0,1341 -0,1993 -0,2948 -0,4329 -0,2948 -0,4329 -0,2948 -0,4329 -0,2948 -0,4329 -0,2948 -0,4329 -0,2948 -0,4329 -0,2948	100 1/2 Width 100 100 100 100 100 100 100 100 100 10	1,621590544	85400 time [sec.] 0 0 0 0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
2,5843 Displ [mm] -0,0001 -0,0002 -0,0005 -0,0004 -0,0014 -0,0022 -0,0034 -0,0052 -0,0034 -0,0059 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0405 -1,2789 -1,2789 -1,7487 -2,3063 -2,3004 -3,4297 -3,7479 -3,7073	100 1/2 Width 100 100 100 100 100 100 100 10	1,480371055 -7,21423E-05 -0,000140038 -0,000275822 -0,00047948 -0,000494829 -0,001243009 -0,001929934 -0,00255871 -0,004503758 -0,0028253 -0,012468886 -0,02322278 -0,015468886 -0,0232278 -0,015468886 -0,0232278 -0,034796009 -0,052027877 -0,07591043 -0,115309319 -0,170517466 -0,250382681 -0,363960814 -0,521560533 -0,73271005 -1,001840642 -1,321149718 -1,661341036 -1,964274784 -2,214382627 -2,123142554	86400  time [sec.]  0  0  0  0  0  1  1  2  2  4  6  8  12  19  28  42  63  95  142  213  319  479  718  1077  1615  2424	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,8311 -0,0001 -0,0002 -0,0005 -0,0008 -0,0014 -0,0021 -0,0033 -0,0051 -0,0078 -0,0078 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,018 -0,0178 -0,0401 -0,0602 -0,2488 -0,2488 -0,2488 -0,2584 -1,7349 -2,2900 -2,8831 -3,7447 -3,7457 -3,74	100 1/2 Width 100 100 100 100 100 100 100 100 100 10	1,621690544	85400 time [sec.] 0 0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718 1077 1515 2424	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
2,5843 Displ [mm] -0,0001 -0,0002 -0,0008 -0,0014 -0,0022 -0,0034 -0,0052 -0,0079 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0270 -0,0405 -0,0607 -0,0908 -0,1354 -0,2013 -0,2976 -0,4370 -0,3522 -0,9103 -1,2789 -1,7487 -2,3063 -2,9004 -3,4297 -3,7479 -3,7479 -3,7479 -3,7479 -3,7479 -3,7479	100 1/2 Width 100 100 100 100 100 100 100 100 100 10	1,480371055 Twist [degrees] -7,21423E-05 -0,000140038 -0,00027822 -0,000278422 -0,000784929 -0,001243009 -0,001243009 -0,001293934 -0,00259871 -0,00259871 -0,0025987 -0,0025987 -0,015468886 -0,0232278 -0,015468886 -0,0232278 -0,015468886 -0,0232278 -0,015468886 -0,025027877 -0,077591043 -0,115309319 -0,170517466 -0,250382681 -0,363960814 -0,521560533 -0,73271005 -1,001840642 -1,321149718 -1,661341036 -1,964274784 -2,146389627 -2,121142554 -1,357627187	86400 time [sec.] 0 0 0 0 0 1 1 2 2 4 1 1 2 4 6 8 12 19 28 4 2 4 5 3 19 28 42 213 319 422 19 28 42 19 28 42 19 28 42 19 28 42 19 28 42 19 28 42 19 28 42 19 28 42 19 28 42 19 28 42 19 28 42 19 28 42 19 28 42 19 28 42 19 28 42 19 28 42 19 28 42 21 31 95 142 213 319 47 718 1077 1615 242 24 3535 5454 4555 24555 245555 24555 24555 24555 245555 245555 245555 245555 245555 245555 245555 245555 2455555 2455555 2455555 2455555 24555555 24555555555 245555555555	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,8311 Displ[mm] -0,0001 -0,0005 -0,0008 -0,0014 -0,0021 -0,0031 -0,0051 -0,0051 -0,0051 -0,0051 -0,0118 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,018 -0,0178 -0,018 -0,0178 -0,018 -0,0178 -0,018 -0,0178 -0,0051 -0,0052 -0,0051 -0,0052 -0,5244 -0,9022 -1,2681 -1,7349 -2,2800 -2,8831 -3,4147 -3,7407 -3,7151 -3,2623 -2,4318	100 1/2 Width 100 100 100 100 100 100 100 100 100 10	1,621590544	85400 time [sec.] 0 0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 23 319 479 718 1077 1516 2424 3636 5454	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
2,5843 Displ [mm] -0,0001 -0,0005 -0,0008 -0,0014 -0,0022 -0,0034 -0,0012 -0,0019 -0,0179 -0,0270 -0,0308 -0,0352 -0,9008 -0,1354 -0,2976 -0,4370 -0,5352 -0,9103 -1,7289 -1,7289 -1,7287 -2,3063 -2,9004 -3,7479 -3,7479 -3,7479 -3,7479 -3,7479 -3,7479 -3,7470 -2,2310 -2,2310 -2,2310 -2,2310 -2,2310 -2,2310 -2,2310 -2,2310 -2,2300 -2,2310 -2,2310 -2,2310 -2,2310 -2,2300 -2,2310 -2,2310 -2,2310 -2,2300 -2,2310 -	100 1/2 width 100 100 100 100 100 100 100 10	1,480371055 Twist [degrees] -7,21423E-05 -0,000140038 -0,000275822 -0,000275822 -0,00027582 -0,001243009 -0,001243009 -0,001293934 -0,00259871 -0,004503758 -0,004503758 -0,004503758 -0,004503758 -0,00252877 -0,007591043 -0,015468886 -0,0232278 -0,0322278 -0,034796009 -0,052027877 -0,07591043 -0,115309319 -0,170517466 -0,250382681 -0,363960814 -0,521560533 -0,73271005 -1,001840642 -1,321149718 -1,361341035 -1,964274784 -2,146389627 -2,145389627 -2,145389627 -2,145389627 -1,357627187 -0,737602304	86400 time [sec.] 0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 21 31 95 142 213 319 47 718 10777 1615 2424 355 5454 818 10777 1615 5454 8181	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,8311 Displ[mm] -0,0001 -0,0002 -0,0003 -0,0014 -0,0021 -0,003 -0,0014 -0,0031 -0,0031 -0,0051 -0,018 -0,0178 -0,0178 -0,0178 -0,0178 -0,0267 -0,0401 -0,0601 -0,0699 -0,1341 -0,1993 -0,2948 -0,429 -0,5294 -0,52	100 1/2 Width 100 100 100 100 100 100 100 100 100 10	1,621590544	85400 time [sec.] 0 0 0 0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1615 2424 3636 5454 8181	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
2,5843 Displ [mm] -0,0001 -0,0005 -0,0008 -0,0014 -0,0022 -0,0034 -0,0052 -0,0034 -0,0059 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0270 -0,0405 -0,0452 -0,9003 -1,2789 -1,7487 -2,3063 -2,3700 -3,7479 -3,7479 -3,7479 -3,7073 -3,2212 -2,3700 -1,2874 -0,1894 -	100 1/2 Width 100 100 100 100 100 100 100 10	1,480371055 Twist [degrees] -7,21423E-05 -0,000140038 -0,000275822 -0,00047948 -0,001243009 -0,001292934 -0,001292934 -0,00259871 -0,004503758 -0,004503758 -0,004503758 -0,00282278 -0,01286083 -0,01286081 -0,0322278 -0,0322278 -0,034796009 -0,0521560533 -0,75591043 -0,175517465 -0,250382681 -0,521560533 -0,73271005 -1,001840642 -1,361341036 -1,361341036 -1,3612474784 -2,146389627 -2,123142554 -1,850708771 -1,357627187 -0,737502304 -0,75702304 -0,75702304 -0,108540995 -0,00854095 -0,008540	86400  time [sec.]  0  0  0  0  0  1  1  2  2  4  5  12  19  28  42  63  12  19  28  42  63  142  213  319  479  718  1077  1616  2424  3636  5454  8181  12272	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,8311 -0,0001 -0,0002 -0,0003 -0,0014 -0,0021 -0,003 -0,0014 -0,0021 -0,003 -0,0014 -0,0078 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,0178 -0,018 -0,0178 -0,018 -0,0178 -0,0267 -0,0401 -0,089 -0,1341 -0,089 -0,1341 -0,1993 -0,2948 -0,4329 -0,2948 -0,4329 -0,5244 -1,7349 -2,2900 -2,8831 -3,7407 -3,7407 -3,7415 -3,7425 -3,7435 -3,2438 -1,3851 -0,3245	100 1/2 Width 100 100 100 100 100 100 100 100 100 10	1,621690544	85400 time [sec.] 0 0 0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 10777 1616 2424 3636 5454 8181 12272	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
2,5843 Displ [mm] -0,0001 -0,0005 -0,0008 -0,0014 -0,0022 -0,0034 -0,0052 -0,0079 -0,0119 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0120 -0,0405 -0,1354 -0,2976 -0,4370 -0,6352 -0,9103 -1,2789 -1,2789 -1,2789 -2,3063 -2,3004 -3,4297 -3,7479 -3,7479 -3,7479 -3,7212 -2,3700 -1,2874 -0,1894 0,7614	100 1/2 Width 100 100 100 100 100 100 100 100 100 10	1,480371055	85400 time [sec.] 0 0 0 0 1 1 2 2 4 1 1 2 4 5 8 12 19 28 4 6 8 12 19 28 4 2 3 19 28 42 63 95 142 213 319 479 718 1077 1615 2424 3636 5454 811 12272 18408	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,8311 Displ[mm] -0,0001 -0,0002 -0,0003 -0,0014 -0,003 -0,0014 -0,003 -0,0051 -0,0078 -0,0118 -0,0178 -0,0178 -0,0178 -0,0267 -0,0401 -0,0601 -0,0601 -0,0601 -0,0601 -0,0601 -0,0839 -0,1341 -0,1341 -0,1341 -0,1341 -0,2348 -0,4329 -0,5294 -0,9022 -1,2681 -1,7349 -2,2900 -2,8831 -3,4147 -3,7407 -3,7151 -3,2623 -2,4318 -1,3851 -0,3245 0,5904	100  1/2 Width  100  100  100  100  100  100  100  1	1,621690544	85400 time [sec.] 0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718 1077 1615 2424 3636 5454 8181 12272 18408	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
2,5843 Displ [mm] -0,0001 -0,0002 -0,0005 -0,0004 -0,0014 -0,0022 -0,0034 -0,0052 -0,0079 -0,0119 -0,0179 -0,0179 -0,0179 -0,0179 -0,0270 -0,0405 -0,0607 -0,0607 -0,0607 -0,0908 -0,1354 -0,2013 -1,2789 -1,2789 -3,7479 -3,7429 -3,7207 -3,2312 -2,3700 -1,2874 -0,2854 -0,2854 -0,2854 -2,3700 -1,2874 -0,2854 -2,3700 -1,2874 -0,2854 -2,3700 -1,2874 -0,2854 -2,3700 -1,2874 -0,2854 -2,3700 -1,2874 -0,2854 -2,3700 -1,2874 -0,2854 -2,3700 -1,2874 -2,3700 -1,2874 -2,3700 -1,2874 -2,3700 -1,2874 -2,3700 -1,2874 -2,3700 -1,2854 -2,3700 -2,2854 -2,3700 -2,2854 -2,3700 -2,2854 -2,3700 -2,2854 -2,3700 -2,2854 -2,3700 -2,2854 -2,3700 -2,2854 -2,3700 -2,2854 -2,3700 -2,2854 -2,3700 -2,2854 -2,3700 -2,2854 -2,3700 -2,2854 -2,3700 -2,2854 -2,2956 -	100 1/2 Width 100 100 100 100 100 100 100 10	1,480371055 Twist [degrees] -7,21423E-05 -0,000140038 -0,00027582 -0,000784929 -0,001243009 -0,001243009 -0,001243009 -0,001243009 -0,002559871 -0,002559871 -0,002559871 -0,00245287 -0,0124638 -0,0232278 -0,0322278 -0,037291003 -0,75517465 -0,250382681 -0,363960814 -0,521560533 -0,73271005 -1,001840642 -1,321149718 -1,561341036 -1,564274784 -2,146389627 -2,123142554 -1,850708771 -1,357627187 -0,737602304 -0,108540995 0,48564240489 0,858684849	86400 time [sec.] 0 0 0 0 1 1 2 2 4 1 1 2 2 4 5 8 12 19 28 4 2 19 7 18 1077 16 16 2424 3635 5454 8 181 11 22 21 3 319 4 4 2 2 19 5 142 2 19 5 142 2 13 3 19 4 7 18 10 7 7 18 10 5 5 5 5 5 5 5 5 5 5 5 5 5	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,8311 Displ[mm] -0,0001 -0,0002 -0,0003 -0,0014 -0,0021 -0,0031 -0,0051 -0,0051 -0,0078 -0,0118 -0,0178 -0,0178 -0,0178 -0,0178 -0,0267 -0,0401 -0,0699 -0,1341 -0,1993 -0,0267 -0,0401 -0,0899 -0,1341 -0,1993 -0,2488 -0,4329 -0,6294 -0,9022 -1,2681 -1,7349 -2,2900 -2,8831 -3,4147 -3,7407 -3,7407 -3,74151 -3,2623 -2,4318 -1,3851 -0,3245 0,5904 1,2952	100 1/2 Width 100 100 100 100 100 100 100 100 100 10	1,621590544 Twist [degrees] -7,14306E-05 -0,000138555 -0,000273101 -0,000474751 -0,001230753 -0,001230753 -0,001230753 -0,001230753 -0,0013167 -0,00675013 -0,010181288 -0,015316708 -0,02294571 -0,051519377 -0,075836459 -0,114195494 -0,168887415 -0,248025578 -0,360611437 -0,515918811 -0,72550195 -0,93947678 -1,311815435 -1,651460047 -1,955730531 -2,127588413 -1,86846893 -1,399015579 -0,793535911 -0,18593049 0,38274935 -0,742030529	85400 time [sec.] 0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718 10777 1616 2424 3636 5454 8181 12272 18408 27612	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
2,5843 Displ [mm] -0,0001 -0,0005 -0,0008 -0,0014 -0,0022 -0,0034 -0,0052 -0,0079 -0,0119 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0179 -0,0120 -0,0405 -0,1354 -0,2976 -0,4370 -0,6352 -0,9103 -1,2789 -1,2789 -1,2789 -2,3063 -2,3004 -3,4297 -3,7479 -3,7479 -3,7479 -3,7212 -2,3700 -1,2874 -0,1894 0,7614	100 1/2 Width 100 100 100 100 100 100 100 100 100 10	1,480371055	85400 time [sec.] 0 0 0 0 1 1 2 2 4 1 1 2 4 5 8 12 19 28 4 6 8 12 19 28 4 2 3 19 28 42 63 95 142 213 319 479 718 1077 1615 2424 3636 5454 811 12272 18408	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,8311 Displ[mm] -0,0001 -0,0002 -0,0003 -0,0014 -0,003 -0,0014 -0,003 -0,0051 -0,0078 -0,0118 -0,0178 -0,0178 -0,0178 -0,0267 -0,0401 -0,0601 -0,0601 -0,0601 -0,0601 -0,0601 -0,0839 -0,1341 -0,1341 -0,1341 -0,1341 -0,2348 -0,4329 -0,5294 -0,9022 -1,2681 -1,7349 -2,2900 -2,8831 -3,4147 -3,7407 -3,7151 -3,2623 -2,4318 -1,3851 -0,3245 0,5904	100  1/2 Width  100  100  100  100  100  100  100  1	1,621690544	85400 time [sec.] 0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718 1077 1615 2424 3636 5454 8181 12272 18408	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
2,5843 Displ [mm] -0,0001 -0,0005 -0,0008 -0,0014 -0,0022 -0,0034 -0,0052 -0,0079 -0,0119 -0,0179 -0,0179 -0,0179 -0,0270 -0,0405 -0,4370 -0,5352 -0,9103 -1,2789 -1,2789 -3,7479 -3,7429 -3,7429 -3,7429 -3,7429 -3,7429 -3,72312 -2,3700 -1,2874 -0,2834	100 1/2 Width 100 100 100 100 100 100 100 10	1,480371055 Twist [degrees] -7,21423E-05 -0,000140038 -0,00027582 -0,000784929 -0,001243009 -0,001243009 -0,001243009 -0,001243009 -0,002559871 -0,002559871 -0,002559871 -0,00245287 -0,0124638 -0,0232278 -0,0322278 -0,037291003 -0,75517465 -0,250382681 -0,363960814 -0,521560533 -0,73271005 -1,001840642 -1,321149718 -1,561341036 -1,564274784 -2,146389627 -2,123142554 -1,850708771 -1,357627187 -0,737602304 -0,108540995 0,48564240489 0,858684849	86400 time [sec.] 0 0 0 0 1 1 2 2 4 1 1 2 2 4 5 8 12 19 28 4 2 19 7 18 1077 16 16 2424 3635 5454 8 181 11 22 21 3 319 4 4 2 2 19 5 142 2 19 5 142 2 13 3 19 4 7 18 10 7 7 18 10 5 5 5 5 5 5 5 5 5 5 5 5 5	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2,8311 Displ[mm] -0,0001 -0,0002 -0,0003 -0,0014 -0,0021 -0,0031 -0,0051 -0,0051 -0,0078 -0,0118 -0,0178 -0,0178 -0,0178 -0,0178 -0,0267 -0,0401 -0,0699 -0,1341 -0,1993 -0,0267 -0,0401 -0,0899 -0,1341 -0,1993 -0,2488 -0,4329 -0,6294 -0,9022 -1,2681 -1,7349 -2,2900 -2,8831 -3,4147 -3,7407 -3,7407 -3,74151 -3,2623 -2,4318 -1,3851 -0,3245 0,5904 1,2952	100 1/2 Width 100 100 100 100 100 100 100 100 100 10	1,621590544 Twist [degrees] -7,14306E-05 -0,000138555 -0,000273101 -0,000474751 -0,001230753 -0,001230753 -0,001230753 -0,001230753 -0,0013167 -0,00675013 -0,010181288 -0,015316708 -0,02294571 -0,051519377 -0,075836459 -0,114195494 -0,168887415 -0,248025578 -0,360611437 -0,515918811 -0,72550195 -0,93947678 -1,311815435 -1,651460047 -1,955730531 -2,127588413 -1,86846893 -1,399015579 -0,793535911 -0,18593049 0,38274935 -0,742030529	85400 time [sec.] 0 0 0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718 10777 1616 2424 3636 5454 8181 12272 18408 27612	24 time (h) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

Displ [mm]	1/2 Width	Twist [degrees]	time [sec.]	time (h)	E = 1000 MPa	Displ [mm]	1/2 Width	Twist [degrees]	time [sec.]	time (h)	E = 1100 MPa
-0,0001	100	-7,12141E-05	0	0		-0,0001	100	-7,10061E-05	0	0	
-0,0002	100	-0,000138235	0	0		-0,0002	100	-0,000137833	0	0	
-0,0005	100	-0,000272273	0	0		-0,0005	100	-0,000271479	0	0	
-0,0008	100	-0,000473311	0	0		-0,0008	100	-0,000471932	0	0	
-0,0014	100	-0,000774828	0	0		-0,0013	100	-0,000772571	0	0	
-0,0021	100	-0,001227018	0	0		-0,0021	100	-0,001223443	0	0	
-0,0033	100	-0,001905108	0	0		-0,0033	100	-0,001899551	0	0	
-0,0051	100	-0,002921804	1	0		-0,0051	100	-0,002913295	1	0	
-0,0078	100	-0,004445849	1	0		-0,0077	100	-0,004432905	1	0	
-0,0117	100	-0,006729676	2	0		-0,0117	100	-0,006710138	2	0	
-0,0177	100	-0,010150463	2	0		-0,0177	100	-0,010120955	2	0	
-0,0267	100	-0,015270413	4	0		-0,0266	100	-0,015226067	4	0	
-0,0400	100	-0,022925186	6	0		-0,0399	100	-0,022858666	6	0	
-0,0600	100	-0,034351108	8	0		-0,0598	100	-0,034251699	8	0	
-0,0896	100	-0,051364679	12	0		-0,0894	100	-0,051216512	12	0	
-0,1337	100	-0,076606703	19	0		-0,1333	100	-0,076386688	19	0	
-0,1987	100	-0,113856304	28	0	Twist	-0,1982	100	-0,113532011	28	0	Twist
-0,2939	100	-0,168391811	42	0		-0,2931	100	-0,167917406	42	0	
-0,4316	100	-0,247309394	63	0		-0,4304	100	-0,246624149	63	0	
-0,6276	100	-0,35959505	95	0		-0,6259	100	-0,358622779	95	0	
-0,8998	100	-0,515512313	142	0		-0,8974	100	-0,514168263	142	0	
-1,2648	100	-0,724621194	213	0		-1,2616	100	-0,722828123	213	0	
-1,7308	100	-0,99156489	319	0		-1,7268	100	-0,989302382	319	0	
-2,2851	100	-1,309020864	479	0		-2,2804	100	-1,306363724	479	0	
-2,8780	100	-1,64853466	718	0		-2,8732	100	-1,64576956	718	0	
-3,4104	100	-1,953263955	1077	0		-3,4064	100	-1,950963337	1077	0	
-3,7389	100	-2,141205893	1615	0		-3,7373	100	-2,140301883	1616	0	
-3,7180	100	-2,129264864	2424	1		-3,7211	100	-2,131021414	2424	1	
-3,2725	100	-1,874341208	3636	1		-3,2827	100	-1,880179106	3636	1	
-2,4517	100	-1,404422098	5454	2		-2,4713	100	-1,415650997	5454	2	
-1,4162	100	-0,811391503	8181	2		-1,4468	100	-0,828891777	8181	2	
-0,3675	100	-0,210536978	12272	3		-0,4094	100	-0,234586518	12272	3	
0,5362	100	0,307214734	18408	5		0,4832	100	0,276877407	18408	5	
1,2307	100	0,705092104	27612	8		1,1677	100	0,669029598	27612	8	
1,7411	100	0,997464577	41418	12		1,6692	100	0,956303799	41418	12	
2,1232	100	1,216309787	62127	17		2,0436	100	1,170710682	62127	17	
2,3713	100	1,358388793	86400	24		2,2862	100	1,309690874	85400	24	

## Appendix O: Data influence of elastic moduli Gesso on bow deformation

Image         Image <th< th=""><th>Diral [mm]</th><th>Time Ises 1</th><th>Time [h]</th><th>E - 750 Mag</th><th>Dirol [mm]</th><th>Time [sec]</th><th>Time [h]</th><th>F - 500 Mag</th><th>Disal [mm]</th><th>Time [see]</th><th>Time [h]</th><th>5 - 500 Mag</th></th<>	Diral [mm]	Time Ises 1	Time [h]	E - 750 Mag	Dirol [mm]	Time [sec]	Time [h]	F - 500 Mag	Disal [mm]	Time [see]	Time [h]	5 - 500 Mag
0.0000         0         0         0.0001         0         0         0.0001         0	Displ [mm]	Time [sec.]	Time [h.]	E = 760 Mpa	Displ [mm]	Time [sec.]	Time [h.]	E = 500 Mpa	Displ [mm]	Time [sec.]	Time [h.]	E = 600 Mpa
9.0000         0         0         0.0001         0         0.0002         0         0.0002         0         0           0.0000         0         0         0.0001         0         0         0.0001         0         0         0.0001         0         0         0.0001         0         0         0         0 </td <td></td>												
9.0000         0         0         0.0000         0         0         0.0000         0         0           0.0000         0         0         0.0000         0         0         0.0000         0         0           0.0000         0         0         0.0000         0         0         0.0000         0         0           0.0000         0         0         0.0000         0         0         0.0000         0         0.0000         0         0.0000         0         0.0000         0         0.0000         0         0.0000         0         0.0000         0         0.0000         0         0.0000         0         0.0000         0         0.0000         0         0.0000         0         0.0000         0         0.0000         0.0000         0         0.0000         0         0.0000         0         0.0000         0.0000         0.0000         0.0000         0.0000         0         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.00000         0.00000         0.00000         0.00000         0.00000         0.00000         0.00000         0.00000									-			
-0.000         0         0         0.0000         0         0         0.0000         0												
0.0000         0         0         0,0011         0         0,0011         0         0,0010         0         0           0.0000         0         0         0,0000         0         0         0,0000         0         0           0.0000         0         0         0,0000         0         0         0,0000         0         0           0.0000         0         0         0,0000         0	-0,0003	0	0			0	0		-0,0003	0	0	
0.0008         0         0         0         0         0         0         0         0         0           0.0008         0         0         0         0         0         0         0         0         0           0.0007         0	-0,0005	0	0		-0,0005	0	0		-0,0005	0	0	
-0.0087         0         0         -0.0087         0         -0.0087         0         0           -0.0087         0         0         -0.0114         0         0         -0.0027         0         0           -0.0114         0         -0.0114         0         0         -0.0127         0         0           -0.0114         0         -0.0114         0         0         -0.0127         0         0           -0.0125         1         0         -0.0114         0         0         0.0127         0         0           -0.0126         1         0         -0.0217         0         0.021         0         -0.0214         0         0           -0.0127         0         0         -0.0217         0         0         0.021         0         0.0217         0         0         0         0         0         0         0         0         0.021<	-0,0010	0	0		-0,0011	0	0		-0,0010	0	0	
0.0007         0.0         0.0007 <td>-0,0019</td> <td>0</td> <td>0</td> <td></td> <td>-0,0020</td> <td>0</td> <td>0</td> <td></td> <td>-0,0020</td> <td>0</td> <td>0</td> <td></td>	-0,0019	0	0		-0,0020	0	0		-0,0020	0	0	
0.0007         0.0018         0.0018         0.0018         0.0017<	-0,0038	0	0		-0,0040	0	0		-0,0039	0	0	
0.4028         0         0         0.4028         0         0.40275         0         0.40275         0         0           0.4001         1         0         -0.4028         1         0         -0.40275         0         0           0.4007         2         0         0         -0.4028         1         0         -0.4028         1         0           -0.4007         2         0         0         -0.4028         1         0         -0.4028         1         0           -0.4284         4         0         -0.4028         4         0         -0.4028         1         0         0         0         0         0           -0.4284         8         0         -0.4028         12         0         -0.4028         12         0         -0.4028         12         0         -0.4028         12         0         -0.4028         12         0         -0.4028         12         0         -0.4028         12         0         0         0.4028         0         0         0.4028         0         0         0.4028         0         0.4028         0         0.4028         0.4028         0.4028         0.4028         0.4028	-0,0067	0	0		-0,0070	0	0		-0,0069	0	0	
-0.028         0         -0.028         0         -0.028         0         -0.027         0         -0.028         0         -0.028         0         -0.028         0         -0.028         0         -0.028         1         0         -0.028         1         0         -0.028         1         0         -0.028         1         0         -0.028         0         -0.028         0         -0.028         0         -0.028         0         -0.028         0         -0.028         0         -0.028         0         -0.028         0         -0.028         0         -0.028         0         -0.028         0         -0.028         0         -0.028         0         -0.028         0         -0.028         0         0         -0.028         0         -0.028         0         -0.028         0         -0.028         0         -0.028         0         -0.028         0         -0.028         0         -0.028         0         -0.028         0         -0.028         0         -0.028         0         -0.028         0         -0.028         0         -0.028         0         -0.028         0         -0.028         0         -0.028         0.028         0.028         0.028 <td>-0,0109</td> <td>0</td> <td>0</td> <td></td> <td>-0,0114</td> <td>0</td> <td>0</td> <td></td> <td>-0,0112</td> <td>0</td> <td>0</td> <td></td>	-0,0109	0	0		-0,0114	0	0		-0,0112	0	0	
-0.0000         0.00000         0.00000         0.00												
0.4065         1         0.4069         1         0.4069         2         0.4074         2         0.4074         2         0.4074         2         0.4074         2         0.4074         2         0.4074         2         0.4074         2         0.4074         2         0.4074         2         0.5074         2         0.5074         2         0.5074         2         0.5074         2         0.5074         2         0.5074         2         0.5074         2         0.5074         0.5074         0.5074         0.5074         0.5074         0.5074         0.5074         0.5074         0.5074         0.5074         0.5077         0.5077         0.50777         0.5077         0.50777         0.50777         0.50777												
-0.0427         2         0         -0.079         2         0         -0.079         2         0         box           -0.1427         0         -0.223         4         0         -0.213         4         0         -0.214         4         0         -0.215         0         -0.215         0         -0.215         0         -0.215         0         -0.215         0         -0.215         0         -0.215         0         -0.215         0         -0.215         0         -0.215         0         -0.216         0         -0.216         0         -0.216         0         -0.217         1         0         -0.217         1         0         -0.217         1         0         -0.217         1         0         -0.217         1         0         -0.217         1         0         -0.217         1         0         -0.217         1         0         -0.217         1         0         -0.217         1         0         -0.218         0         -0.218         0         -0.217         0         -0.218         0         -0.217         1         0         -0.217         1         0         -0.217         1         0         0.2178         1 <td></td>												
-0.3244         0.         bow         -0.327         2         0         Bow         -0.328         0         -0.3288         0         -0.3288 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>												
-0.218         4         0         -0.223         4         0         -0.325         -0.3350         -0.3350         -0.3350         -0.3570         -0.3570         -0.3570         -0.3570         -0.3570         -0.3570         -0.4746         -0.577         -0.4746         -0.577         -0.4746         -0.577         -0.4746         -0.577         -0.4746         -0.577         -0.4746         -0.577         -0.4746         -0.577         -0.4746         -0.577         -0.4746         -0.577         -0.4746         -0.5778 </td <td></td>												
-0.4284         8         0         -0.338         6         0         -0.4270         6         0           -0.4284         8         0         -0.735         12         0         -0.4675         32         0         -0.4675         32         0         -0.4675         32         0         -0.4675         32         0         -0.4685         42         0         -1.568         -0.4585         12         0         -0.4585         12         0         -0.4585         12         0         -0.4585         12         0         -0.4585         12         0         -0.4585         12         0         -0.4585         12         0         -0.4585         12         0         -0.4585         12         0         -0.4585         12         0         -0.4585         12         0         -0.4585         12         0         -0.4585         12         0         -0.4585         12         0         -0.4585         13         0         -0.4585         13         0         -0.4585         13         0         -0.4585         13         0         -0.4585         13         0         -0.4585         13         0         -0.4585         13         1         -0				BOW	1			BOW	1			BOW
-0.464         á         0         -0.572         5         0         -0.7624         3         0         -0.7674         3         0         -0.7674         3         0         -0.7674         3         0         -0.7674         10         0         -0.7724         10         0         -0.7571         11         10         0         -0.7571         11         10         0         -0.7571         11         10         0         -0.7571         11         10         0         -0.7571         11         0         -0.7571         11         0         -0.7571         11         0         -0.7571         11         0         -0.7571         11         0         -0.7571         11         0         -0.7571         11         0         -0.7571         11         0         -0.7571         11         0         -0.7571         11         0         -0.7571         11         0         -0.7571         11         0         -0.7571         11         0         -0.7571         11         0         0.7571         0.777         0         0.777         0.777         0.777         0.777         0.777         0.777         0.777         0.777         0.777         0.777												
-1.075         1.07         0         -0.78         1.2         0         -0.74         1.2         0           -1.075         2.8         0         -1.644         2.8         0         -1.644         2.8         0         -1.644         2.8         0         -1.644         2.8         0         -1.644         3.2         0         -1.644         3.2         0         -1.644         3.2         0         -1.644         3.2         0         -1.644         3.2         0         -1.644         3.2         0         -1.644         3.2         0         -1.644         3.2         0         -1.644         3.2         0         -1.644         3.2         0         -1.644         3.2         0         -1.644         3.2         0         -1.644         3.2         0         -1.644         3.2         0         -1.644         3.2         0         -1.644         3.2         0         -1.644         3.4         1.111         3.137         0         -3.644         3.137         0         -3.644         1.111         -3.644         1.111         -3.644         1.111         -3.644         1.111         -3.644         1.111         -3.644         1.1111         -3.644 <td></td>												
1.0582         1.2         1.121         19         0         -1.111         19         0           -1.562         2.8         0         -2.6483         28         0         -2.6484         28         0           -3.209         43         0         -2.6483         42         0         -2.6484         31         0           -3.100         31         0         -3.573         55         0         -3.673         35         0           -3.111         19         0         -3.573         55         0         -3.673         35         0           -3.141         13         0         -3.7773         142         0         -3.7775         142         0         -3.7775         142         1         -3.5280         716         0         -3.5785         3.244         1         -3.5378         3.242         1         -3.5378         3.242         1         -3.5378         3.244         1         -3.5378         3.242         1         -3.5378         3.242         1         -3.5378         3.242         1         -3.5378         3.243         1         -3.5378         3.243         1         -3.6364         3.242         1         -3.												
-1.682         2.8         0         -1.683         36         -         -2.6734         42         0         -2.6734         42         0           -3.112         0         -3.6735         0         0         -3.6049         0         -           -7.1671         142         0         -7.718         142         0         -3.6049         0         -           -1.6426         3.11         0         -7.718         142         0         -3.6749         0.1         -         0         -         0.1         -         0         -         0         -         0         -3.7774         142         0         -         -												
-2,294         42         0         -2,494         42         0         -3,2446         42         0           -5,100         0         -5,375         35         0         -3,604         31         0           -7,387         104         20         -7,575         134         0         -7,574         142         0         -7,574         142         0         -7,574         142         0         -7,574         142         0         -7,574         142         0         -7,574         142         0         -7,574         142         0         -7,574         142         0         -2,586         11         -7,574         143         0         -2,586         11         -7,574         143         0         -34,787         134         0         -34,787         134         0         -34,787         134         0         -34,787         134         0         -34,787         134         0         -34,787         134         0         -34,787         134         0         -34,787         134         0         -34,787         134         0         -34,787         134         0         -34,787         134         0         -34,787         1344         14												
-5.900         69         0         -3.6735         63         0         -3.604         63         0           -7.337         142         0         -7.718         142         0         -7.7774         142         0           -10.4225         213         0         -7.7714         142         0         -10.7715         142         0           -10.4225         213         0         -13.772         142         0         -13.771         142         0           -13.727         147         0         -23.988         718         0         -32.988         107         0         -36.462         1077         0           -37.985         1315         0         -33.787         244         1         -38.777         244         1         -38.787         244         1         -38.981         34.717         13         0         -38.981         34.717         142         1         -38.981         34.1         1         -39.775         244         1         -38.981         34.1         1         -39.787         34.1         1         -39.787         34.1         1         -39.787         34.1         1         -39.787         34.1         1												
-5.112         95         0         -5.253         95         0         -7.567         442         0           -7.3697         142         0         -10.9055         213         0         -7.574         442         0           -10.4322         213         0         -10.9055         213         0         -13.792         213         0           -10.322         747         0         -20.9050         473         0         -13.792         417         0           -20.9088         1077         0         -31.106         100         -43.017         131         0           -39.0075         1316         0         -31.106         100         -43.017         131         2           -39.0075         1311         2         -20.9057         1313         2         -30.905         1222         3           -13.005         1311         2         -20.9057         1314         2         -20.9057         1314         2           -14.592         10472         1         -10.9057         1344         12         -10.9057         1320         1222         1         -10.9057         1320         122         -10.9057         1320												
-7,3/28       142       0       -7,7/28       142       0         -134,225       213       0       -13,0957       213       0       -14,720       213       0         -134,225       315       0       -13,0957       135       0       -14,720       137       0       -14,720       137       0       -14,720       137       0       -14,720       147       0       -25,705       148       0       -25,705       148       0       -25,705       148       0       -36,715       148       0       -36,717       0       -36,717       0       -36,717       0       -36,717       0       -36,717       148       1       -35,717       244       1       -35,717       244       1       -36,718       305       1       -36,923       305       1       -36,923       305       1       -36,923       305       1       -36,923       305       1       -36,923       305       1       -36,923       305       1       -36,923       305       1       -36,923       305       1       -36,923       305       1       -36,923       306       30       1       1       30,933       303       304       304 <td></td>												
1-0.428         2.13         0         -10.730         2.13         0           1-14,362         2.13         0         -12.730         2.19         0         -12.730         2.19         0         -13.739         3.19         0           -24.688         1.071         0         -25.7515         7.15         0         -25.755         7.15         0         -25.755         7.15         0         -30.642         1.07         0         -           -24.688         1.071         0         -31.1105         107         -30.642         3.08         1.07         0.4         -30.642         1.07         0.4         -30.642         1.07         0.4         -30.642         1.07         0.4         -30.642         1.07         0.4         -30.642         1.07         0.4         -30.642         1.07         0.4         -30.643         1.07         0.4         -30.643         1.07         0.4         -30.643         1.07         0.4         -30.643         1.07         0.4         -30.643         1.07         0.4         -30.643         1.07         1.07         0.4         -30.643         1.07         1.07         1.07         1.07         1.07         1.07         1.07         <												
1-13,232       319       0       -14,700       319       0         1-33,232       749       0       -25,705       718       0       -25,705       718       0         2-39,686       718       0       -35,715       718       0       -35,715       718       0         2-39,686       718       0       -35,715       718       0       -34,717       126       0         2-39,686       788       16       -35,716       244       1       -35,716       243       1       -34,821       3965       1       -34,821       3965       1       -34,821       3965       1       -34,821       3965       1       -34,821       3965       1       -34,821       3965       1       -34,821       3965       1       -34,821       3965       1       -34,821       312       -34,831       3964       148       12       -35,836       3441       12       -35,836       3441       12       -35,836       3441       12       -34,839       3414       12       -34,839       3414       12       -34,839       3418       12       -11,1340       3418       12       -11,1340       3418       12       -11,340												
1-12,272         479         0         -13,799         479         0           -24,588         1077         0         -31,116         1077         0         -30,642         1077         0           -39,575         1515         0         -31,116         1077         0         -30,642         1071         0           -39,575         1515         0         -36,563         2424         1         -36,575         214         -36,575         215         -36,584         2         -30,577         315         1         -36,585         31272         3         -30,584         2         -30,585         114         2         -30,585         114         2         -30,585         114         2         -30,585         114         2         -30,585         114         12         -30,585         114         12         -30,585         114         12         -30,585         114         12         -30,585         114         12         -30,585         114         12         -30,585         114         12         -30,585         114         12         -30,585         114         12         -30,585         114         12         -30,585         114         12         11,21 <td></td>												
-24,688         718         0         -25,708         718         0         -25,708         718         0           -29,988         1515         0         -35,716         242         1         -35,716         242         1         -35,716         242         1         -35,716         242         1         -34,717         1515         0         -34,717         1515         0         -34,717         1515         0         -34,717         174         -34,952         3636         1         -34,952         3636         1         -34,952         3636         1         -34,952         3636         5         -35,967         3141         2         -35,967         3141         2         -35,967         3141         2         -35,967         3141         2         -35,967         3141         2         -35,967         3141         2         -35,967         3141         2         -35,967         3141         2         -35,967         3141         2         -35,967         3141         2         -35,967         3141         2         -35,967         3141         2         -35,967         3141         3143         32         -35,967         3141         30         32         -35,967												
-33,742         3015         0         -45,178         0         -43,217         76,358         3245         1           -35,789         3055         1         -35,078         2244         1         -34,982         3245         1           -30,864         3055         1         -35,027         3035         1811         2         -35,905         5413         2           -30,864         5         -35,905         8181         2         -25,907         3048         5         -35,904         1227         3         -           -14,959         13406         5         -15,905         1313         1227         3         -												
-35,789       2424       1       -35,787       3624       1       -35,787       3644       1         -34,556       3615       1       -31,277       55,277       3618       2       -30,580       5544       2         -36,864       554       2       -30,580       5544       2       -30,580       1272       3       -30,580       1272       3       -30,580       1272       3       -30,580       1272       3       -30,681       1272       3       -30,681       1272       3       -30,681       1272       3       -30,681       1272       3       -31,280       27612       8       -11,1314       3640       32       -31,280       3217       17       -3,734       3600       24       -11,1314       8400       24       -11,1314       8400       24       -11,1314       8400       24       -11,1314       8400       24       -11,1314       8400       24       -11,1314       8400       24       -11,1314       8400       24       2       -11,1314       8400       24       1       -11,1314       8400       24       1       -11,1314       8400       24       1       -11,1314       8400       20       0	-29,9368	1077	0		-31,1105	1077	0		-30,6429	1077	0	
-36,804     5454     2     -32,805     5481     2     -32,805     5481     2       -25,805     8181     2     -25,805     818     2     -25,805     818     2     -25,805     818     2     -20,805     12272     3     -20,805     12272     3     -20,805     12272     3     -20,805     12272     3     -20,805     12272     3     -20,805     12272     3     -20,805     12272     3     -20,805     12272     3     -20,805     12272     3     -20,805     12272     7     -11,2805     12272     3     -11,2835     12172     11,2130     62127     17     -11,2130     62127     7     -11,2130     62127     7     -11,2130     62127     7     -11,2130     62127     7     -11,2130     62127     7     -11,2130     62127     7     -11,2130     62127     7     -11,2130     62127     7     -11,2130     62027     7     11,2130     62027     7     11,2130     62027     7     11,2130     62127     7     11,2130     62127     7     11,2130     62127     7     11,2130     62127     7     11,2130     62127     7     11,2117     11,2110     11,21	-35,7189	2424	1		-36,7776	2424	1		-36,3563	2424	1	
-2.5,0006     618.1     2     -2.5,095     818.1     2     -2.5,0743     52.7     818.1     2       -30,788     1207.2     3     -19,3105     1272.7     3     12,8139     129,8105     129,8105     129,8105     129,8105     129,8105     129,8105     129,8105     129,1105     127,127     8       -13,3267     44148     12     -10,8557     4118     12     -11,1284     50227     71     -11,1284     50227     71       -13,321     8640     2     -2,2454     6207     71     -11,2184     50227     71       -13,321     8640     2     -2,2454     6207     71     -11,2184     50227     71       -13,321     8640     2     -2,624     6207     71     -11,2184     5027     71       -13,321     8640     2     -2,624     620     0     0,6000     0     0       0,0000     0     0     0     0     0     0     0     0     0       0,0000     0     0     0     0     0     0     0     0     0       0,0000     0     0     0     0     0     0     0     0     0												
-20,7838         12272         3         -10,8066         12272         3         -20,0039         12272         3           -14,8952         27612         8         -11,8189         27612         8         -11,8269         27612         8           -13,4675         41418         12         -10,6557         4118         12         -11,210         62127         17           -3,2310         62127         17         -9,9551         51227         17         -11,210         62127         17           -3,2313         62107         17         -9,9551         62127         17         -11,210         62127         11           -0,0000         0         0         0.0000         0         0         0.0000         0         0         0.0000         0         0         0.0000         0         0         0.0000         0         0         0.0000         0         0         0.0000         0         0         0.0000         0         0         0.0000         0         0         0.0000         0         0.0000         0         0         0.0000         0         0.0000         0         0.0000         0         0.0000         0         0	-30,8614	5454			-31,0279	5454			-30,9630	5454		
-15,8945     13,808     5     -15,0622     19,068     5     -15,012     8.400     5       -13,4395     41418     12     -10,1557     4141     12     -11,2140     02127     17.       -3,2120     2127     2     -3,2420     2217     -11,2140     02177     1.8       -3,2121     2127     3,242     24     -11,2140     02177     1.7       -3,2121     212     -3,242     24     -11,1214     02177     1.7       -3,2121     214     0,0000     0     0     0     0     0       -0,0001     0     0     0,0000     0     0     0     0       -0,0001     0     0     0,0000     0     0     0     0       -0,0002     0     0     0,0000     0     0     0     0       -0,0002     0     0     0,0000     0     0     0     0       -0,0003     0     0     0,0000     0     0     0     0       -0,0003     0     0     0,0000     0     0     0     0       -0,0003     0     0     0,0000     0     0     0     0       -0,0003     0												
1-34,932         27512         8         -13,2405         27612         8           1-34,9457         41418         12         -10,6557         11,2455         11,2455         27612         8           1-3,2120         2127         7         -3,2814         8202         17         -11,2810         62127         17           -3,214         85400         24         -11,2180         62127         17           -3,000         0         0         0,000         0         0,000         0         0         11,2180         62127         17           -3,000         0         0         0,000         0         0         0,000         0												
1-33,200       04128       12       -11,245       41418       12         -13,210       02127       7       -99551       52127       7       -11,1243       85400       27         -13,213       85400       24       -9,9551       52127       17       -11,1243       85400       24         0,0000       0       0       0,0000       0       0       0,0000       0       0       0       0,0000       0       0       0,0000       0       0       0       0,0000       0       0       0,0000       0       0       0,0000       0       0       0       0,0000       0       0       0       0,0000       0       0       0,0000       0       0       0,0000       0       0       0       0,0000       0       0       0,0000       0       0       0,0000       0       0       0,0000       0       0       0,0000       0       0       0,0000       0       0       0,0000       0       0       0,0000       0       0,0000       0       0,0000       0       0,0000       0       0,0000       0       0,0000       0       0,0000       0       0,0000       0									-			
1-31,234         62,227         17         -11,134         62,127         17           -13,234         6560         -2,743         6560         -2,743         8560         24           0,000         0         0         0,000         0         0,000         0         0,000         0         0,000         0         0,000         0         0         0,000         0         0         0,000         0         0         0,000         0         0,000         0         0         0,000         0         0         0,000         0         0         0,000         0         0         0,000         0         0         0,000         0         0         0,000         0         0         0,000         0         0         0,000         0         0,000         0         0,000         0         0,000         0         0,000         0         0,000         0         0,000         0         0,000         0         0,000         0         0,000         0         0,000         0         0,000         0         0,000         0         0,000         0         0,000         0         0,000         0         0,000         0         0,0000         0												
1.3.234         8.860         24         9.7434         66400         24         11384         8.860         24           Dep[imm]         Time [i.b.         E =300 Mpa         Disp[imm]         Time [i.b.         E = 100 Mpa         Disp[imm]         Disp[imm]         Time [i.b.         E = 100 Mpa         Disp[imm]         Disp[imm] </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>12</td> <td></td> <td></td> <td></td> <td></td> <td></td>							12					
Displ (mm)         Time [b.:         Time [b.:         Time [b.:         Time [b.:         E = 100 Mpa         Displ (mm)         Time [b.:         E = 1100 Mpa           0,0000         0         0         0,0000         0         0,0000         0         0         0,0000         0         0         0,0000         0         0         0,0000         0         0         0,0000         0         0         0,0000         0         0         0,0000         0         0         0,0000         0         0         0,0000         0         0         0,0000         0         0         0,0000         0         0         0,0000         0         0         0,0000         0         0         0,0000         0         0         0,0000         0         0,0000         0         0,0000         0         0,0000         0         0,0000         0         0,0000         0         0,0000         0         0,0000         0         0,0000         0         0,0000         0         0,0000         0         0,0000         0         0,0000         0         0,0000         0         0,0000         0         0,0000         0         0,0000         0         0,0000         0         0,0000<	-13,2100											
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	10 1014											
-0,0001       0       0,0000       0       0       0,0000       0       0         -0,0002       0       0       -0,0002       0       0       -0,0002       0       0         -0,0003       0       0       -0,0003       0       0       -0,0003       0       0         -0,0003       0       0       -0,0003       0       0       -0,0003       0       0         -0,0003       0       0       -0,0013       0       0       -0,0003       0       0         -0,0007       0       0       -0,0013       0       0       -0,0003       0       0         -0,0037       0       0       -0,0035       0       0       -0,0033       0       0         -0,0036       0       0       -0,0035       0       0       -0,0033       0       0         -0,0036       0       0       -0,0035       0       0       -0,0033       0       0         -0,0103       0       0       -0,0035       0       0       -0,0033       0       0         -0,0251       0       0       -0,0036       0       -0,0038       1		85400	24	LT	-9,7434	86400	24	- 1000 H	-11,1384	85400	24	- 4400 Marca
-0,0001       0       0,0001       0       0,0003       0       0,0003       0       0         -0,0003       0       0       -0,0003       0       0       -0,0003       0       0         -0,0005       0       0       -0,0003       0       0       -0,0003       0       0         -0,0005       0       0       -0,0019       0       0       -0,0005       0       0         -0,0005       0       0       -0,0019       0       0       -0,0003       0       0         -0,0005       0       0       -0,0015       0       0       -0,0003       0       0         -0,0055       0       0       -0,0055       0       0       -0,0003       0       0         -0,0158       0       0       -0,0055       0       0       -0,0033       0       0         -0,0160       1       0       -0,0053       1       0       -0,0053       1       0         -0,0051       1       0       -0,0050       1       0       -0,0053       1       0         -0,0051       1       0       -0,0053       1       0       <	Displ [mm]	85400 Time [sec.]	24 Time [h.]	E = 900 Mpa	-9,7434 Displ [mm]	86400 Time [sec.]	24 Time [h.]	E = 1000 Mpa	-11,1384 Displ [mm]	86400 Time [sec.]	24 Time [h.]	E = 1100 Mpa
-0.0002       0       -0.0002       0       0       -0.0003       0       0         -0.0003       0       0       -0.0003       0       0       -0.0003       0       0         -0.0001       0       0       -0.0003       0       0       -0.0005       0       0         -0.0007       0       0       -0.0003       0       0       -0.0003       0       0         -0.0007       0       0       -0.0003       0       0       -0.0003       0       0         -0.0007       0       0       -0.0003       0       0       -0.0003       0       0         -0.0016       0       -0.0015       0       0       -0.0013       0       0         -0.0021       0       -0.00257       0       -0.0038       1       0       -0.0038       1       0         -0.0034       1       0       -0.0035       0       0       -0.0038       1       0       -0.0038       1       0       -0.0038       1       0       -0.0037       0       0       -0.0038       0       -0.0038       1       0       -0.0038       0       -0.0038       0 </td <td>Displ [mm] 0,0000</td> <td>85400 Time [sec.] 0</td> <td>24 Time [h.] 0</td> <td>E = 900 Mpa</td> <td>-9,7434 Displ [mm] 0,0000</td> <td>86400 Time [sec.] 0</td> <td>24 Time [h.] 0</td> <td>E = 1000 Mpa</td> <td>-11,1384 Displ [mm] 0,0000</td> <td>85400 Time [sec.] 0</td> <td>24 Time [h.] 0</td> <td>E = 1100 Mpa</td>	Displ [mm] 0,0000	85400 Time [sec.] 0	24 Time [h.] 0	E = 900 Mpa	-9,7434 Displ [mm] 0,0000	86400 Time [sec.] 0	24 Time [h.] 0	E = 1000 Mpa	-11,1384 Displ [mm] 0,0000	85400 Time [sec.] 0	24 Time [h.] 0	E = 1100 Mpa
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Displ [mm] 0,0000 -0,0001	85400 Time [sec.] 0 0	24 Time [h.] 0 0	E = 900 Mpa	-9,7434 Displ [mm] 0,0000 -0,0001	85400 Time [sec.]   0 0	24 Time [h.] 0 0	E = 1000 Mpa	-11,1384 Displ [mm] 0,0000 0,0000	85400 Time [sec.]   0 0	24 Time [h.] 0 0	E = 1100 Mpa
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Displ [mm] 0,0000 -0,0001 -0,0001	85400 Time [sec.] 0 0 0	24 Time [b.] 0 0 0	E = 900 Mpa	-9,7434 Displ [mm] 0,0000 -0,0001 -0,0001	85400 Time [sec.] 0 0 0	24 Time [h.] 0 0 0	E = 1000 Mpa	-11,1384 Displ [mm] 0,0000 0,0000 -0,0001	85400 Time [sec.] 0 0 0	24 Time [h.] 0 0 0	E = 1100 Mpa
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Displ [mm] 0,0000 -0,0001 -0,0001 -0,0002	85400 Time [sec.] 0 0 0 0 0	24 Time [h.] 0 0 0 0	E = 900 Mpa	-9,7434 Displ [mm] 0,0000 -0,0001 -0,0001 -0,0002	85400 Time [sec.] 0 0 0 0 0	24 Time [h.] 0 0 0 0	E = 1000 Mpa	-11,1384 Displ [mm] 0,0000 0,0000 -0,0001 -0,0002	85400 Time [sec.] 0 0 0 0 0	24 Time [h.] 0 0 0 0	E = 1100 Mpa
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Displ [mm] 0,0000 -0,0001 -0,0001 -0,0002 -0,0003	86400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0	E = 900 Mpa	-9,7434 Displ [mm] 0,0000 -0,0001 -0,0001 -0,0002 -0,0003 -0,0005	85400 Time [sec.] 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0	E = 1000 Mpa	-11,1384 Displ [mm] 0,0000 0,0000 -0,0001 -0,0002 -0,0003 -0,0003	86400 Time [sec.] 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0	E = 1100 Mpa
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Displ [mm] 0,0000 -0,0001 -0,0001 -0,0002 -0,0003 -0,0005 -0,0010	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0	E=900 Mpa	-9,7434 Displ [mm] 0,0000 -0,0001 -0,0001 -0,0003 -0,0005 -0,0010	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0	E = 1000 Mpa	-11,1384 Displ [mm] 0,0000 0,0000 -0,0001 -0,0002 -0,0003 -0,0005 -0,0009	85400 Time [sec.]   0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0	E = 1100 Mpa
	Displ [mm] 0,0000 -0,0001 -0,0001 -0,0002 -0,0003 -0,0005 -0,0010 -0,0019	86400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [b.] 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 900 Mpa	-9,7434 Displ [mm] 0,0000 -0,0001 -0,0001 -0,0002 -0,0003 -0,0005 -0,0010 -0,0019	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 1000 Mpa	-11,1384 Displ [mm] 0,0000 0,0000 -0,0001 -0,0002 -0,0003 -0,0005 -0,0009 -0,0018	86400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0	Е = 1100 Мра
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0003 -0,0010 -0,0019 -0,0037	86400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [b.] 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 900 Mpa	-9,7434 Displ [mm] 0,0000 -0,0001 -0,0001 -0,0003 -0,0005 -0,0010 -0,0019 -0,0037	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 1000 Mpa	-11,1384 Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0005 -0,0009 -0,0018 -0,0036	86400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0	E=1100 Mpa
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0010 -0,0019 -0,0019 -0,0019 -0,0019	86400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 900 Mpa	-9,7434 Displ [mm] 0,0000 -0,0001 -0,0001 -0,0003 -0,0005 -0,0010 -0,0019 -0,0037 -0,0054	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 1000 Mpa	-11,1384 Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0005 -0,0005 -0,0009 -0,0018 -0,0035 -0,0035 -0,0063	86400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E= 1100 Mpa
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0005 -0,0010 -0,0019 -0,0037 -0,0065 -0,0106	86400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0	E=900 Mpa	-9,7434 Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0003 -0,0010 -0,0019 -0,0019 -0,0037 -0,0064 -0,0105	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 1000 Mpa	-11,1384 Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0003 -0,0005 -0,0018 -0,0036 -0,0036 -0,0103	86400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E= 1100 Mpa
	Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0005 -0,0010 -0,0019 -0,0037 -0,0065 -0,0106 -0,0168 -0,0168	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0	Е=900 Мра	-9,7434 Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0005 -0,0010 -0,0019 -0,0037 -0,0064 -0,0105 -0,0166 -0,0166	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [b.] 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 1000 Mpa	-11,1384 Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0005 -0,0008 -0,0018 -0,0036 -0,0036 -0,0163 -0,0153 -0,0153 -0,0153	86400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E= 1100 Mpa
	Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0005 -0,0019 -0,0019 -0,0037 -0,0065 -0,0106 -0,0168 -0,0251	86400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0	E=900 Mpa	-9,7434 Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0003 -0,0010 -0,0019 -0,0037 -0,0064 -0,0105 -0,0165 -0,0257	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [b.] 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 1000 Mpa	-11,1384 Displ [mm] 0,0000 0,0000 -0,0001 -0,0002 -0,0003 -0,0003 -0,0003 -0,0003 -0,0018 -0,0035 -0,0063 -0,0103 -0,0103 -0,0153	86400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0	E=1100 Mpa
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0003 -0,0010 -0,0010 -0,0010 -0,0010 -0,0010 -0,0037 -0,0065 -0,0106 -0,0166 -0,0166 -0,0166 -0,0166 -0,0166 -0,0166 -0,0166 -0,0166 -0,0166 -0,0166 -0,0166 -0,0166 -0,001 -0,0001 -0,0001 -0,0001 -0,0001 -0,0001 -0,0001 -0,0001 -0,0001 -0,0001 -0,0001 -0,0001 -0,0005 -0,0005 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,005 -0,0010 -0,005 -0,0010 -0,005 -0,0010 -0,005 -0,0010 -0,005 -0	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0	E=900 Mpa	-9,7434 Displ [mm] 0,0000 -0,0001 -0,0001 -0,0003 -0,0003 -0,0003 -0,0010 -0,0010 -0,0010 -0,0037 -0,0064 -0,0105 -0,0156 -0,0156 -0,0257 -0,0394	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 1000 Mpa	-11,1384 Displ [mm] 0,0000 0,0000 -0,0001 -0,0003 -0,0003 -0,0003 -0,0036 -0,0036 -0,0036 -0,0036 -0,0103 -0,0153 -0,0153 -0,0388	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0	E=1100 Mpa
-0,314860 $-0,3095$ 60 $-0,3045$ 50 $-0,4718$ 80 $-0,4559$ 80 $-0,4554$ 80 $-0,7059$ 120 $-1,0691$ 120 $-0,6828$ 120 $-1,0536$ 190 $-1,050$ 190 $-1,0192$ 190 $-1,5578$ 280 $-1,517$ 280 $-2,2474$ 420 $-3,3227$ 420 $-2,2243$ 420 $-2,2474$ 420 $-3,4000$ 630 $-3,3637$ 630 $-3,3098$ 630 $-4,9912$ 950 $-4,997$ 950 $-3,8988$ 2130 $-7,1929$ 1420 $-7,0769$ 1420 $-9,8688$ 2130 $-10,0245$ 2130 $-9,8688$ 21300 $-14,0772$ 3190 $-18,8553$ 3190 $-18,2648$ 4790 $-24,1598$ 7180 $-23,8143$ 7180 $-23,8429$ 7180 $-23,9578$ 10770 $-22,9877$ 10770 $-22,9875$ 10770 $-33,953$ 16160 $-32,9897$ 15160 $-32,9875$ 10770 $-33,953$ 16160 $-32,9877$ 10770 $-22,8429$ 7180 $-33,955$ 36361 $-33,746$ 36361 $-33,746$ 36361 $-$	Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0003 -0,0010 -0,0019 -0,0037 -0,0019 -0,0037 -0,0055 -0,0106 -0,0168 -0,0261 -0,0401 -0,0610	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0	E=900 Mpa	-9,7434 Displ [mm] 0,0000 -0,0001 -0,0001 -0,0002 -0,0003 -0,0001 -0,0019 -0,0019 -0,0037 -0,005 -0,0156 -0,0156 -0,0257 -0,0394 -0,0660	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0	E = 1000 Mpa	-11,1384 Displ [mm] 0,0000 0,0000 -0,0001 -0,0002 -0,0003 -0,0003 -0,0003 -0,0003 -0,0003 -0,0003 -0,0003 -0,0018 -0,0036 -0,0163 -0,0163 -0,0253 -0,0358 -0,0359	86400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0	E= 1100 Mpa
-0,4718       8       0       -0,4539       8       0       -0,4564       8       0         -0,7059       12       0       -0,6941       12       0       -0,6828       12       0         -1,0536       19       0       -1,0360       1,0192       19       0         -1,5578       28       0       -2,2843       42       0       -2,2474       42       0         -3,4200       63       0       -3,357       63       0       -3,3098       63       0         -4,9212       95       0       -7,0769       142       0       -6,9558       142       0         -10,1848       213       0       -19,0225       213       0       -9,8688       213       0         -14,0772       319       0       -13,8595       319       0       -13,8507       19       0         -14,0772       319       0       -13,8593       319       0       -13,8548       479       0         -24,1598       718       0       -23,8143       718       0       -23,8145       1077       0         -33,9333       1616       0       -23,8197       1616	Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0003 -0,0019 -0,0019 -0,0019 -0,0019 -0,0019 -0,0019 -0,0016 -0,0168 -0,0261 -0,0401 -0,0610 -0,0924	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		-9,7434 Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0005 -0,0019 -0,0019 -0,0019 -0,0037 -0,0054 -0,0156 -0,0156 -0,0257 -0,0394 -0,0660 -0,0680	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		-11,1384 Displ [mm] 0,0000 0,0000 -0,0001 -0,0002 -0,0003 -0,0003 -0,0003 -0,0018 -0,0035 -0,0035 -0,0035 -0,0153 -0,0153 -0,0253 -0,0253 -0,0388 -0,0593	86400 Time [sec.] [ 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [b.] 0 0 0 0 0 0 0 0 0 0 0 0 0	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0003 -0,0019 -0,0019 -0,0019 -0,0037 -0,0065 -0,0168 -0,0168 -0,0261 -0,0610 -0,0610 -0,0924 -0,1393	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		-9,7434 Displ [mm] 0,0000 -0,0001 -0,0001 -0,0003 -0,0005 -0,0010 -0,0019 -0,0034 -0,0105 -0,0105 -0,01257 -0,0334 -0,0257 -0,0334 -0,0600 -0,0334	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-11,1384 Displ [mm] 0,0000 0,0000 -0,0001 -0,0003 -0,0003 -0,0003 -0,0018 -0,003 -0,0013 -0,003 -0,0103 -0,0103 -0,013 -0,0253 -0,0388 -0,0388 -0,0590 -0,06893 -0,01347	85400 Time [sec.]   0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [b.] 0 0 0 0 0 0 0 0 0 0 0 0 0	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0003 -0,0019 -0,0019 -0,0037 -0,0065 -0,0106 -0,0168 -0,0261 -0,0401 -0,0610 -0,0924 -0,1393 -0,2996 -0,3148	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		-9,7434 Displ [mm] 0,0000 -0,0001 -0,0001 -0,0002 -0,0003 -0,0005 -0,0019 -0,0019 -0,0037 -0,005 -0,0156 -0,0156 -0,0257 -0,0394 -0,0395 -0,0394 -0,0395 -0	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		-11,1384 Displ [mm] 0,0000 0,0000 -0,0001 -0,0002 -0,0003 -0,0003 -0,0003 -0,0003 -0,0003 -0,0003 -0,0035 -0,0035 -0,0035 -0,0163 -0,0163 -0,0163 -0,0288 -0,0388 -0,0590 -0,0893 -0,027 -0,2027 -0,3045	86400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0	
-1,5678 $28$ $0$ $-1,517$ $28$ $0$ $-2,3227$ $42$ $0$ $-2,2843$ $42$ $0$ $-2,2474$ $42$ $0$ $-3,4200$ $63$ $0$ $-3,3637$ $63$ $0$ $-3,3098$ $63$ $0$ $-4,9912$ $95$ $0$ $-4,997$ $95$ $0$ $-4,817$ $95$ $0$ $-7,1929$ $142$ $0$ $-7,0769$ $142$ $0$ $-6,9558$ $142$ $0$ $-10,1848$ $213$ $0$ $-10,0225$ $213$ $0$ $-9,8688$ $213$ $0$ $-14,0772$ $319$ $0$ $-13,8593$ $319$ $0$ $-13,6507$ $319$ $0$ $-18,8372$ $479$ $0$ $-23,8143$ $718$ $0$ $-23,4829$ $718$ $0$ $-24,1598$ $718$ $0$ $-23,6877$ $1077$ $0$ $-23,8575$ $1077$ $0$ $-23,9578$ $1077$ $0$ $-28,9677$ $1077$ $0$ $-23,4829$ $718$ $0$ $-33,9333$ $1616$ $0$ $-23,9897$ $1616$ $0$ $-32,6021$ $1616$ $0$ $-35,1953$ $2424$ $1$ $-34,9686$ $2424$ $1$ $-34,9686$ $2424$ $1$ $-34,0968$ $2424$ $1$ $-34,9686$ $2424$ $1$ $-25,9427$ $383,955$ $3636$ $1$ $-33,7346$ $3636$ $1$ $-30,7747$ $5454$ $2$ $-30,7140$ $5454$ $2$ $-30,6541$ $5454$ $2$ $-25,94$	Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0003 -0,0019 -0,0019 -0,0019 -0,0037 -0,0019 -0,0019 -0,0019 -0,0016 -0,0168 -0,0261 -0,0401 -0,0610 -0,0924 -0,1393 -0,2096 -0,3148 -0,4718	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		-9,7434 Displ [mm] 0,0000 -0,0001 -0,0001 -0,0003 -0,0005 -0,0010 -0,0016 -0,0016 -0,0156 -0,0156 -0,0156 -0,0156 -0,0157 -0,0394 -0,0394 -0,6060 -0,1370 -0,3095	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-11,1384 Displ [mm] 0,0000 0,0000 -0,0001 -0,0002 -0,0003 -0,0003 -0,003 -0,003 -0,003 -0,003 -0,003 -0,003 -0,0163 -0,0153 -0,0253 -0,0153 -0,0253 -0,0590 -0,0690 -0,0690 -0,0693 -0,1347 -0,2034 -0,3045 -0,34564	86400 Time [sec.] [ 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [b.] 0 0 0 0 0 0 0 0 0 0 0 0 0	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0003 -0,0010 -0,0010 -0,0010 -0,0010 -0,0010 -0,0010 -0,0010 -0,0010 -0,0010 -0,0010 -0,0010 -0,0010 -0,0010 -0,0010 -0,0010 -0,0010 -0,0010 -0,0010 -0,0010 -0,0001 -0,0001 -0,0002 -0,0001 -0,0002 -0,0001 -0,0002 -0,0001 -0,0001 -0,0002 -0,0001 -0,0001 -0,0001 -0,0002 -0,0005 -0,0010 -0,0001 -0,0005 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,005 -0,0010 -0,005 -0,0010 -0,005 -0,0010 -0,005 -0,0010 -0,005 -0,0010 -0,005 -0,0010 -0,005 -0,0010 -0,005 -0,0010 -0,005 -0,0010 -0,005 -0,0010 -0,005	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		-9,7434 Displ [mm] 0,0000 -0,0001 -0,0001 -0,0002 -0,0003 -0,0010 -0,0019 -0,003 -0,003 -0,0054 -0,0105 -0,0054 -0,0105 -0,0257 -0,0394 -0,0594 -0,1370 -0,2061 -0,0005 -0,005	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-11,1384 Displ [mm] 0,0000 0,0000 -0,0001 -0,0002 -0,0005 -0,0005 -0,0018 -0,0035 -0,0038 -0,0035 -0,0038 -0,0038 -0,0033 -0,0038 -0,0035 -0,0253 -0,0388 -0,0590 -0,0388 -0,0590 -0,227 -0,3045 -0,4554	86400 Time [sec.] [ 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0010 -0,0019 -0,0019 -0,0019 -0,0019 -0,0019 -0,0019 -0,0019 -0,0010 -0,0010 -0,0168 -0,0166 -0,0168 -0,0161 -0,0401 -0,0251 -0,3148 -0,7059 -1,0536	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		-9,7434 Displ [mm] 0,0000 -0,0001 -0,0001 -0,0002 -0,0003 -0,0003 -0,0010 -0,0019 -0,0019 -0,0016 -0,0156 -0,0156 -0,0156 -0,0156 -0,0156 -0,0394 -0,0600 -0,3095 -0,4390 -0,6941 -0,3095 -0,6541 -1,0360	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-11,1384 Displ [mm] 0,0000 0,0000 -0,0001 -0,0002 -0,0003 -0,0009 -0,0008 -0,0003 -0,0003 -0,0018 -0,003 -0,0163 -0,0163 -0,0163 -0,0188 -0,0590 -0,0893 -0,1347 -0,3045 -0,06828 -1,0192	86400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0	
-4,9912       95       0       -4,8317       95       0         -7,1929       142       0       -7,0759       142       0       -6,9558       142       0         -10,1848       213       0       -10,0235       213       0       -9,8588       213       0         -14,0772       319       0       -13,8555       319       0       -13,8507       319       0         -18,8372       479       0       -18,555       479       0       -18,2848       479       0         -24,1598       718       0       -23,8143       718       0       -23,829       718       0         -23,3578       1077       0       -23,8937       1615       0       -32,6937       1615       0         -33,9333       1615       0       -32,8937       1615       0       -32,6921       1616       0         -35,1953       2424       1       -34,8931       2424       1       -34,4968       2424       1         -34,052       3636       1       -33,9355       3635       1       -33,7346       3636       1         -30,7747       5454       2       -26,5142 <td< td=""><td>Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0005 -0,0019 -0,0019 -0,0037 -0,0037 -0,0050 -0,0106 -0,0168 -0,0261 -0,0401 -0,0610 -0,0924 -0,1393 -0,2096 -0,3148 -0,4718 -0,7059 -1,0536 -1,5578</td><td>85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td></td><td>-9,7434 Displ [mm] 0,0000 -0,0001 -0,0001 -0,0002 -0,0003 -0,0005 -0,0019 -0,0019 -0,0019 -0,0019 -0,0016 -0,0156 -0,0156 -0,0156 -0,0257 -0,0394 -0,008 -0,0395 -0,2061 -0,3095 -0,4639 -0,6463 -0,0395 -0,4639 -0,5417 -1,0360 -1,0370 -1,0360 -1,0360 -1,0350 -1,0350 -1,0350 -1,0355 -0,4639 -0,5417 -1,0350 -1,0357 -1,0350 -1,0355 -1</td><td>85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td></td><td>-11,1384 Displ [mm] 0,0000 0,0000 -0,0001 -0,0002 -0,0003 -0,0003 -0,0003 -0,0003 -0,0003 -0,0003 -0,0003 -0,0018 -0,0036 -0,0053 -0,0163 -0,0163 -0,0163 -0,0163 -0,0163 -0,00590 -0,0833 -0,1654 -0,3045 -0,4564 -0,654 -0,654 -0,654 -0,654 -0,6554 -0,5554 -0,5</td><td>86400 Time [sec.] [ 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td></td></td<>	Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0005 -0,0019 -0,0019 -0,0037 -0,0037 -0,0050 -0,0106 -0,0168 -0,0261 -0,0401 -0,0610 -0,0924 -0,1393 -0,2096 -0,3148 -0,4718 -0,7059 -1,0536 -1,5578	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		-9,7434 Displ [mm] 0,0000 -0,0001 -0,0001 -0,0002 -0,0003 -0,0005 -0,0019 -0,0019 -0,0019 -0,0019 -0,0016 -0,0156 -0,0156 -0,0156 -0,0257 -0,0394 -0,008 -0,0395 -0,2061 -0,3095 -0,4639 -0,6463 -0,0395 -0,4639 -0,5417 -1,0360 -1,0370 -1,0360 -1,0360 -1,0350 -1,0350 -1,0350 -1,0355 -0,4639 -0,5417 -1,0350 -1,0357 -1,0350 -1,0355 -1	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		-11,1384 Displ [mm] 0,0000 0,0000 -0,0001 -0,0002 -0,0003 -0,0003 -0,0003 -0,0003 -0,0003 -0,0003 -0,0003 -0,0018 -0,0036 -0,0053 -0,0163 -0,0163 -0,0163 -0,0163 -0,0163 -0,00590 -0,0833 -0,1654 -0,3045 -0,4564 -0,654 -0,654 -0,654 -0,654 -0,6554 -0,5554 -0,5	86400 Time [sec.] [ 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0	
-7,1929       142       0       -6,9558       142       0         -10,1848       213       0       -10,0235       213       0       -9,8688       213       0         -14,0772       319       0       -13,8595       319       0       -13,6507       319       0         -18,8372       479       0       -13,5553       479       0       -18,2848       479       0         -24,1598       718       0       -23,8143       718       0       -23,4829       718       0         -23,3578       1077       0       -28,9677       1077       0       -28,9875       1077       0         -33,9333       1616       0       -32,9897       1616       0       -32,9897       1016       0         -34,0552       3636       1       -34,9468       2424       1       -34,4968       2424       1         -94,0777       5454       2       -30,7140       5454       2       -30,6541       5454       2         -25,0562       8181       2       -26,1944       818       2       -26,3422       818       2         -21,3567       12272       3       -21,407	Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0003 -0,0010 -0,0001 -0,0001 -0,0002 -0,0001 -0,0001 -0,0002 -0,0001 -0,0001 -0,0002 -0,0001 -0,0005 -0,0010 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,0005 -0,0010 -0,0010 -0,0010 -0,005 -0,0010 -0,005 -0,0010 -0,005 -0,0010 -0,005 -0,0010 -0,005 -0,0010 -0,005 -0,0010 -0,005 -0,0010 -0,005 -0,0010 -0,005 -0,0010 -0,005 -0,0010 -0,005 -0,0010 -0,005 -0,005 -0,0010 -0,005 -0,0010 -0,005 -0,0010 -0,005 -0,0010 -0,005 -0,0010 -0,0024 -0,3148 -0,7059 -1,5578 -2,5578	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		-9,7434 Displ [mm] 0,0000 -0,0001 -0,0001 -0,0002 -0,0005 -0,0010 -0,0019 -0,0034 -0,0105 -0,0054 -0,0105 -0,0054 -0,0105 -0,0257 -0,0334 -0,05941 -0,3595 -0,4539 -0,4539 -0,4539 -0,4541 -1,5417 -2,2843	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-11,1384 Displ [mm] 0,0000 0,0000 -0,0001 -0,0003 -0,0003 -0,0003 -0,0018 -0,003 -0,005 -0,038 -0,055 -0,0456 -0,0456 -1,557 -0,0456 -1,557	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [b.] 0 0 0 0 0 0 0 0 0 0 0 0 0	
-10,1848       213       0       -10,0235       213       0       -9,8688       213       0         -14,0772       319       0       -13,8595       319       0       -13,6507       319       0         -18,8372       479       0       -13,8595       319       0       -13,6507       319       0         -24,1598       718       0       -23,8143       718       0       -23,4829       718       0         -29,3578       1077       0       -23,9697       1077       0       -28,5875       1077       0         -33,3933       1616       0       -32,9897       1616       0       -32,6021       1616       0         -34,0552       3636       1       -34,9958       2424       1       -34,9958       2424       1         -34,0552       3636       1       -34,9958       2424       1       -34,9958       2424       1         -34,0707       253/545       1616       0       -32,9677       1616       0       -34,9958       2424       1         -34,0705       1272       3       -30,7140       5454       2       -30,6541       5454       2	Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0003 -0,0010 -0,0019 -0,0019 -0,0019 -0,0019 -0,0019 -0,0010 -0,0106 -0,0106 -0,0166 -0,0166 -0,0161 -0,0401 -0,0520 -0,0524 -0,0924 -0,1393 -0,2096 -0,3148 -0,7059 -1,0536 -1,5678 -1,5678 -2,3227 -3,4200	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		-9,7434 Displ [mm] 0,0000 -0,0001 -0,0001 -0,0002 -0,0003 -0,0010 -0,0010 -0,0010 -0,0010 -0,0010 -0,0010 -0,0010 -0,0010 -0,0105 -0,0105 -0,0105 -0,0105 -0,0105 -0,0105 -0,0257 -0,0394 -0,0500 -0,3095 -0,4370 -0,6541 -1,0360 -1,5417 -2,2843 -3,3637	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-11,1384 Displ [mm] 0,0000 0,0000 -0,0001 -0,0002 -0,0005 -0,0005 -0,0005 -0,0018 -0,005 -0,0018 -0,005 -0,0103 -0,0103 -0,0153 -0,0153 -0,0253 -0,0388 -0,0590 -0,0388 -0,0590 -0,0388 -0,0590 -0,0388 -0,0590 -0,0388 -0,0590 -0,0388 -0,0590 -0,0388 -0,0390 -0,1977 -0,2027 -0,3045 -0,06828 -1,0192 -1,5192 -1	86400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0	
-14,0772       319       0       -13,8595       319       0       -13,6507       319       0         -18,8372       479       0       -13,553       479       0       -13,2483       479       0         -24,1598       718       0       -23,8143       718       0       -23,8429       718       0         -24,3578       1077       0       -23,847       1077       0       -24,8429       718       0         -33,3933       1616       0       -32,9897       1616       0       -32,6021       1616       0         -34,4052       3636       1       -34,4968       2424       1       -34,4968       2424       1         -34,0052       3636       1       -33,955       3636       1       -33,7346       3635       1         -30,7147       5454       2       -26,1944       8181       2       -26,3422       8181       2         -21,3567       12272       3       -21,7407       12272       3       -22,1064       12272       3         -17,7761       18408       5       -18,3702       18408       5       -18,9398       18408       5         -1	Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0003 -0,0010 -0,0019 -0,0037 -0,0065 -0,0106 -0,0168 -0,0261 -0,0401 -0,0610 -0,0924 -0,1393 -0,2096 -0,3148 -0,4718 -0,7059 -1,5578 -2,3227 -3,4200 -4,9912	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		-9,7434 Displ [mm] 0,0000 -0,0001 -0,0001 -0,0002 -0,0003 -0,0005 -0,0010 -0,0019 -0,0019 -0,0037 -0,005 -0,0156 -0,0156 -0,0156 -0,0156 -0,0394 -0,0600 -0,0394 -0,0600 -0,3095 -0,4539 -0,4539 -0,5659 -1,0350 -1,0350 -1,0350 -1,0350 -1,0350 -1,0350 -1,0350 -1,0350 -1,0350 -1,0350 -1,0350 -0,2611 -3,3637 -2,2843 -3,3637 -4,9097	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-11,1384 Displ [mm] 0,0000 0,0000 -0,0001 -0,0002 -0,0003 -0,0005 -0,0005 -0,0005 -0,0005 -0,0005 -0,0018 -0,003 -0,0163 -0,0163 -0,0163 -0,0188 -0,0590 -0,0388 -0,0590 -0,0388 -0,0590 -0,0388 -0,0590 -0,3045 -0,2027 -0,3045 -0,4564 -0,564	86400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0	
-18,8372       479       0       -18,553       479       0       -18,2448       479       0         -24,1598       718       0       -23,8143       718       0       -24,8429       718       0         -29,3578       1077       0       -28,9647       1077       0       -28,875       1077       0         -33,9333       1615       0       -32,9897       1615       0       -32,6921       1616       0         -35,1953       2424       1       -34,8991       2424       1       -34,4958       2424       1         -34,2052       3636       1       -33,9655       3636       1       -33,7346       3636       1         -30,7747       5454       2       -26,1934       8181       2       -26,3422       8181       2         -25,0362       8181       2       -26,1934       8181       2       -26,3422       8181       2         -21,3567       12272       3       -21,7407       12272       3       -22,1064       12272       3         -17,7761       18408       5       -18,3702       18408       5       -18,9368       18408       5         <	Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0005 -0,0019 -0,0019 -0,0037 -0,0019 -0,0037 -0,0065 -0,0168 -0,0261 -0,0401 -0,0610 -0,0524 -0,03148 -0,2996 -0,3148 -0,4718 -0,7059 -1,0536 -1,5578 -2,3227 -3,4200 -4,9912 -7,1929	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		-9,7434 Displ [mm] 0,0000 -0,0001 -0,0001 -0,0003 -0,0005 -0,005	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-11,1384 Displ [mm] 0,0000 0,0000 -0,0001 -0,0003 -0,0003 -0,0003 -0,0003 -0,0038 -0,0038 -0,0038 -0,0038 -0,0053 -0,0038 -0,0053 -0,0153 -0,0153 -0,0253 -0,0388 -0,0593 -0,0388 -0,0593 -0,0388 -0,0593 -0,0388 -0,0593 -0,0553 -0,0553 -0,0553 -0,0554 -0,0554 -0,4554 -0,4554 -0,4554 -0,4554 -0,4554 -0,4554 -1,5157 -2,2474 -3,3098 -4,8397 -6,5655	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [b.] 0 0 0 0 0 0 0 0 0 0 0 0 0	
-29,3578       1077       0       -28,9677       1077       0         -33,9933       1515       0       -32,987       1515       0       -32,6021       1515       0         -35,1953       2424       1       -34,9958       2424       1       -34,9958       2424       1         -34,2052       3636       1       -34,9958       2424       1       -34,9958       2424       1         -34,0252       3636       1       -33,9346       3636       1       -34,9458       2424       1         -30,7747       5454       2       -30,7140       5454       2       -30,0541       5454       2         -26,0362       8181       2       -26,1394       8181       2       -26,3422       8181       2         -21,3567       12272       3       -21,4707       12272       3       -22,1064       12272       3         -17,7751       18408       5       -18,3702       18408       5       -18,9568       18408       5         -15,6891       27612       8       -17,7047       27612       8       -17,2047       27612       8         -14,8649       41418       12<	Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0010 -0,0019 -0,0019 -0,0019 -0,0019 -0,0016 -0,0166 -0,0166 -0,0166 -0,0166 -0,0166 -0,0261 -0,0401 -0,051 -0,0401 -0,052 -0,010 -0,025 -0,010 -0,025 -0,010 -0,010 -0,010 -0,010 -0,0019 -0,0010 -0,0019 -0,0010 -0,0019 -0,0010 -0,0010 -0,0010 -0,0010 -0,0106 -0,0106 -0,0106 -0,0106 -0,0106 -0,0106 -0,0109 -0,0021 -0,0040 -0,0109 -0,0021 -0,0040 -0,019 -0,0021 -0,0040 -0,019 -0,0251 -0,0040 -0,2056 -0,2056 -0,2056 -0,576 -0,576 -1,5578 -1,5578 -2,3227 -3,4200 -4,9912 -7,1929 -1,1848	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		-9,7434 Displ [mm] 0,0000 -0,0001 -0,0001 -0,0002 -0,0005 -0,0010 -0,0019 -0,0037 -0,0054 -0,0055 -0,0054 -0,0054 -0,0055 -0,0054 -0,0055 -0,0054 -0,0055 -0,0054 -0,0055 -0,0054 -0,0055 -0,0054 -0,0055 -0,0054 -0,0055 -0,0054 -0,0054 -0,0055 -0,0054 -0,0055 -0,0056 -0,0056 -0,0056 -0,0056 -0,0055 -0,0056 -	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-11,1384 Displ [mm] 0,0000 0,0000 -0,0001 -0,0002 -0,0005 -0,0005 -0,0018 -0,0035 -0,0038 -0,0036 -0,0038 -0,0388 -0,0395 -0,0388 -0,0395 -0,0388 -0,0395 -0,0388 -0,0395 -0,0388 -0,0395 -0,0388 -0,0395 -0,0458 -0,0458 -1,0192 -1,5167 -2,2277 -3,3098 -4,8387 -5,9588 -5,8588 -5,8588 -5,8588 -1,8598 -5,8588 -5,9588 -	86400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0	
-33,3933       1616       0       -32,9897       1616       0       -32,6021       1615       0         -35,1953       2424       1       -34,8991       2424       1       -34,4968       2424       1         -34,2052       3636       1       -33,9555       3636       1       -33,4958       2424       1         -30,7747       5454       2       -30,1740       5454       2       -30,551       5454       2         -25,0362       8181       2       -26,1934       8181       2       -26,3422       8181       2         -21,3567       12272       3       -21,7407       12272       3       -22,1064       12272       3         -17,7761       18408       5       -18,3702       18408       5       -18,9398       18408       5         -15,6891       27612       8       -16,4646       27612       8       -17,2047       27612       8         -14,8649       41418       12       -15,7941       41418       12       -15,6493       41418       12         -14,7795       62127       17       -15,8386       62127       17       -16,8497       62127       17	Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0003 -0,0010 -0,0019 -0,0037 -0,0065 -0,0106 -0,0168 -0,0166 -0,0168 -0,0261 -0,0401 -0,0521 -0,0401 -0,0524 -0,1393 -0,2996 -0,3148 -0,4718 -0,7059 -1,0536 -1,5678 -1,5678 -3,3227 -3,4200 -4,9912 -7,1929 -10,1848 -14,0772	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		-9,7434 Displ [mm] 0,0000 -0,0001 -0,0001 -0,0002 -0,0003 -0,0003 -0,0004 -0,0019 -0,0019 -0,0016 -0,0105 -0,0166 -0,0156 -0,0156 -0,0194 -0,0166 -0,0394 -0,06908 -0,1370 -0,3095 -0,6941 -1,0360 -1,5417 -2,2843 -3,3637 -4,9097 -7,0765 -11,8595	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-11,1384 Displ [mm] 0,0000 0,0000 -0,0001 -0,0002 -0,0003 -0,0003 -0,0018 -0,0018 -0,0063 -0,0103 -0,0163 -0,0163 -0,0163 -0,0163 -0,0188 -0,0590 -0,0398 -0,0398 -0,0398 -0,0590 -0,0398 -0,0590 -0,0398 -0,0590 -0,0398 -0,045 -0,0590 -0,590 -0,5	86400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0	
-35,1953       2424       1       -34,8951       2424       1         -34,2052       3636       1       -33,9655       3636       1       -33,746       3636       1         -30,7747       5454       2       -30,7140       5454       2       -30,6541       5454       2         -26,0362       8181       2       -26,1934       8181       2       -26,3422       8181       2         -21,3567       12272       3       -21,7407       12272       3       -22,1064       12272       3         -17,7761       18408       5       -18,3702       18408       5       -18,9368       18408       5         -15,6891       27612       8       -16,4646       27612       8       -17,2047       227612       8         -14,6494       41418       12       -15,6810       41418       12       -16,6449       5       -16,6449       5       -16,6449       141418       12         -14,6494       41418       12       -15,6836       62127       17       -16,6449       62127       17	Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0010 -0,0021 -0,0021 -0,0025 -1,5578 -2,3227 -3,4200 -4,9912 -7,1929 -10,1848 -14,0772 -18,8372 -24,1598	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		-9,7434 Displ [mm] 0,0000 -0,0001 -0,0001 -0,0002 -0,0005 -0,0010 -0,0019 -0,0037 -0,0034 -0,005 -0,005 -0,005 -0,0034 -0,005 -0,0257 -0,0334 -0,0504 -0,0261 -0,336 -0,2661 -0,36541 -1,3417 -2,2843 -3,3637 -4,9097 -10,0225 -13,8555 -13,8555 -13,8555 -13,8555 -13,8555 -23,8143	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-11,1384 Displ [mm] 0,0000 0,0000 -0,0001 -0,0003 -0,0003 -0,0003 -0,005 -0,003 -0,005 -0,003 -0,005 -0,055 -0,055 -0,055 -0,04564 -1,5157 -5,9558 -3,8688 -13,8577 -13,8268 -13,8267 -13,8268 -13,8267 -13,8268 -13,8267 -13,8268 -13,8267 -13,8268 -13,8267 -13,8268 -13,8267 -13,8268 -13,8267 -13,8268 -13,8267 -13,8268 -13,8267 -13,8268 -13,8267 -13,8268 -13,8267 -13,8268 -13,8267 -13,8268 -13,8267 -13,8268 -13,8267 -13,8268 -13,8267 -13,8268 -13,8268 -13,8267 -13,8268	86400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [b.] 0 0 0 0 0 0 0 0 0 0 0 0 0	
-34,2052       3636       1       -33,7646       3636       1         -30,7747       5454       2       -30,7140       5454       2       -30,6541       5454       2         -26,0362       8181       2       -26,1934       8181       2       -26,3422       8181       2         -21,3567       12272       3       -21,4707       12272       3       -22,1064       12272       3         -17,7751       18408       5       -18,3702       18408       5       -18,9368       18408       5         -15,6891       27612       8       -17,7741       41418       12       -15,6810       41418       12         -14,6459       41418       12       -15,8365       62127       17       -16,6447       62127       17	Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0003 -0,0010 -0,0019 -0,0019 -0,0019 -0,0010 -0,0106 -0,0106 -0,0166 -0,0166 -0,0160 -0,005 -0,005 -0,0010 -0,0019 -0,0019 -0,0019 -0,0019 -0,0019 -0,0019 -0,0019 -0,0019 -0,0019 -0,0019 -0,0019 -0,0019 -0,0019 -0,0019 -0,0019 -0,0010 -0,0019 -0,0010 -0,0160 -0,0160 -0,0051 -0,0051 -0,0051 -0,0052 -1,0556 -1,5578 -1,5578 -1,5578 -1,1578 -1,	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		-9,7434 Displ [mm] 0,0000 -0,0001 -0,0001 -0,0002 -0,0003 -0,0010 -0,0019 -0,0010 -0,0019 -0,0019 -0,0019 -0,0019 -0,0010 -0,0010 -0,0010 -0,0019 -0,0025 -1,0309 -1,0309 -1,0309 -2,2843 -3,3637 -1,04097 -7,0769 -13,8555 -13,8555 -13,8555 -22,8544 -22,8544 -22,8543 -22,8543 -22,8553 -22,8554 -22,8555 -	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-11,1384 Displ [mm] 0,0000 0,0000 -0,0001 -0,0002 -0,0005 -0,0005 -0,0018 -0,0025 -0,0018 -0,0025 -0,0018 -0,0025 -0,0018 -0,0025 -0,0038 -0,0059 -0,0027 -0,3045 -0,1192 -1,5157 -2,2474 -3,3098 -4,8317 -5,95688 -13,5577 -13,5587 -23,4829 -	86400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0	
-30,7747       5454       2       -30,7140       5454       2       -30,6541       5454       2         -26,0362       8181       2       -26,1934       8181       2       -26,3422       8181       2         -21,3567       12272       3       -21,1407       12272       3       -22,0464       12272       3         -17,7761       18408       5       -18,3702       18408       5       -18,9368       18408       5         -15,6891       27612       8       -16,4646       27612       8       -17,2047       27612       8         -14,6494       41418       12       -15,849       41418       12       -16,6497       62127       17	Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0003 -0,0010 -0,0019 -0,0037 -0,0065 -0,0106 -0,0168 -0,0166 -0,0168 -0,0261 -0,0401 -0,0524 -0,03148 -0,0261 -0,0401 -0,0524 -0,1393 -0,2095 -0,3148 -0,4718 -0,578 -1,5578 -2,3227 -3,4200 -4,9912 -7,1929 -10,1848 -14,0772 -18,8372 -24,1598 -23,3578 -3,3933	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		-9,7434 Displ [mm] 0,0000 -0,0001 -0,0001 -0,0001 -0,0003 -0,0005 -0,0005 -0,0005 -0,0105 -0,0004 -0,0005 -0,005 -0,059 -0,059 -0,059 -1,0560 -1,0560 -1,0560 -1,005 -1,005 -1,005 -1,005 -1,005 -1,005 -1,005 -1,055 -1,0555 -18,5555 -18,5555 -28,9647 -32,9857 -32,9857 -32,9857 -32,9857 -32,9857 -32,9857 -32,9857	85400           Time [sec.]           0           11           2           4           6           8           12           13           95           142           63           95           142           21           319           479           718           1077           1516	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-11,1384 Displ [mm] 0,0000 0,0000 -0,0001 -0,0002 -0,0003 -0,0009 -0,0003 -0,0003 -0,0003 -0,0003 -0,003 -0,0103 -0,0163 -0,0163 -0,0183 -0,0580 -0,0893 -0,1347 -0,3045 -0,0584 -0,0584 -0,0584 -0,06824 -0,06824 -0,06824 -0,0584 -0,0584 -0,0584 -0,0584 -2,3495 -3,3098 -4,8317 -6,9558 -3,3098 -13,5567 -13,2848 -23,4825 -23,4825 -32,5021	86400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0	
-26,0362     8181     2     -26,1934     8181     2     -26,3422     8181     2       -21,3567     12272     3     -21,7407     12272     3     -22,1064     12272     3       -17,7761     18408     5     -18,3702     18408     5     -18,9368     18408     5       -15,6891     27612     8     -16,4646     27612     8     -17,2047     27612     8       -14,6469     41418     12     -15,5810     41418     12       -14,7795     62127     17     -15,8385     62127     17     -16,6497     62127     17	Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0005 -0,0019 -0,0019 -0,0037 -0,0019 -0,0037 -0,0016 -0,0168 -0,0261 -0,0168 -0,0261 -0,0401 -0,0610 -0,0924 -0,1393 -0,2956 -0,3148 -0,4718 -0,7059 -1,0536 -1,5678 -2,3227 -3,4200 -4,9912 -7,1929 -10,1848 -4,0772 -18,8372 -24,1558 -33,3933 -35,1953	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		-9,7434 Displ [mm] 0,0000 -0,0001 -0,0001 -0,0003 -0,0005 -0,0010 -0,0019 -0,0034 -0,0105 -0,0054 -0,0105 -0,0054 -0,0105 -0,0054 -0,0105 -0,0054 -0,0105 -0,0054 -0,0025 -0,0105 -0,0105 -0,0105 -0,0054 -0,0025 -0,0054 -0,0054 -0,0055 -0,0054 -0,0055 -0,0054 -0,0055 -0,0054 -0,0055 -0,0054 -0,0055 -0,0054 -0,0055 -0,0054 -0,0055 -0,0054 -0,0055 -0,0054 -0,0055 -0,0054 -0,0055 -0,0054 -0,0055 -0,0054 -0,0055 -0,0054 -0,0055 -0,0054 -0,0056 -0,0055 -0,0054 -0,0056 -0,0056 -0,0055 -0,0054 -0,0056 -	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-11,1384 Displ [mm] 0,0000 0,0000 -0,0001 -0,0003 -0,0003 -0,0003 -0,0003 -0,0003 -0,003 -0,003 -0,003 -0,0103 -0,0103 -0,013 -0,055 -0,038 -0,055 -0,038 -0,055 -0,0454 -1,5157 -2,2474 -3,3098 -13,5507 -13,2488 -23,4829 -24,4829 -24,48	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [b.] 0 0 0 0 0 0 0 0 0 0 0 0 0	
-21,3567       12272       3       -22,1064       12272       3         -17,7761       18408       5       -18,3702       18408       5       -18,9368       18408       5         -15,6891       27612       8       -16,4646       27612       8       -17,2047       27612       8         -14,6494       41418       12       -15,9414       41418       12       -16,6449       62127       17	Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0010 -0,0019 -0,0019 -0,0019 -0,0016 -0,0166 -0,0166 -0,0166 -0,0166 -0,0166 -0,0261 -0,0401 -0,051 -0,0401 -0,052 -0,0261 -0,0401 -0,052 -0,055 -1,0576 -1,5578 -1,5578 -2,3227 -3,4200 -4,9912 -7,1929 -10,1848 -14,0772 -8,8372 -2,41558 -2,3158 -3,3933 -3,51553 -3,42052	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		-9,7434 Displ [mm] 0,0000 -0,0001 -0,0001 -0,0003 -0,0003 -0,0010 -0,0019 -0,003 -0,0054 -0,0055 -1,5475 -13,5555 -33,6555 -33,9655 -3,3055 -3,505 -5,505	85400           Time [sec.]           0           11           2           4           5           8           12           19           28           42           63           95           142           213           319           479           718           10077           1616           2424           3636	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-11,1384 Displ [mm] 0,0000 0,0000 -0,0001 -0,0002 -0,0005 -0,0005 -0,0018 -0,0035 -0,0038 -0,0038 -0,0038 -0,0033 -0,0038 -0,0033 -0,0038 -0,0045 -0,0045 -0,0388 -0,5628 -1,0192 -1,5157 -5,9558 -3,8688 -13,5507 -13,2567 -23,4629 -23,5875 -32,6021 -33,7466 -4,7466 -4,7466 -4,7466 -4,7466 -4,7466 -4,7466 -4,7466 -4,7	86400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0	
-17,7751         18408         5         -18,3702         18408         5         -18,9368         18408         5           -15,6891         27612         8         -17,2047         27612         8         -17,2047         27612         8           -14,6494         41418         12         -15,9310         41418         12           -14,7795         62127         17         -16,8497         62127         17	Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0003 -0,0010 -0,0019 -0,0019 -0,0019 -0,0019 -0,0010 -0,0010 -0,0016 -0,0168 -0,0166 -0,0168 -0,0166 -0,0168 -0,0251 -0,0401 -0,0524 -0,1393 -0,2096 -0,3148 -0,7059 -1,0536 -1,5578 -2,3227 -3,4200 -4,9912 -7,1929 -10,1848 -14,0772 -18,8372 -24,1598 -23,578 -3,3933 -35,1953 -34,2052 -3,07747	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		-9,7434 Displ [mm] 0,0000 -0,0001 -0,0001 -0,0002 -0,0003 -0,0010 -0,0019 -0,0010 -0,0016 -0,0105 -0,0166 -0,0125 -0,0156 -0,0257 -0,0394 -0,0694 -0,0394 -0,0694 -0,0394 -0,0694 -0,0394 -0,0394 -0,0394 -0,0394 -0,0394 -0,0394 -0,0394 -0,0394 -0,0394 -0,0394 -0,0394 -0,0394 -0,0394 -0,0394 -0,3395 -0,4539 -1,3553 -13,8553 -23,8183 -33,9857 -33,9857 -33,9855 -30,7140	85400           Time [sec.]           0           11           2           4           5           8           12           19           28           42           63           955           142           213           319           479           718           10077           1616           2424           3636           5454	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-11,1384 Displ [mm] 0,0000 0,0000 -0,0001 -0,0002 -0,0003 -0,0003 -0,0003 -0,0018 -0,0063 -0,0103 -0,0163 -0,0163 -0,0163 -0,0163 -0,0253 -0,0253 -0,0388 -0,0590 -0,0388 -0,0590 -0,0388 -0,0590 -0,0388 -0,0590 -0,0388 -0,0590 -0,0388 -0,0253 -0,0388 -0,0590 -0,0388 -0,0590 -0,0388 -0,0590 -0,0388 -0,0590 -0,0388 -0,0590 -0,0388 -0,0590 -0,0388 -0,0590 -0,0388 -0,0590 -0,0388 -0,0590 -0,0388 -0,0590 -0,0388 -0,0590 -0,0388 -0,0590 -0,0388 -0,0590 -0,0388 -0,0590 -0,0388 -0,0590 -0,0388 -0,0590 -0,0388 -0,0590 -0,0388 -0,0590 -0,0388 -0,0388 -0,0388 -0,0398 -0,1347 -0,5258 -1,0192 -1,5167 -2,2488 -3,3098 -13,5507 -18,2848 -13,5507 -18,2848 -33,7966 -34,7966 -34,7966 -34,7966 -34,7966 -34,7966 -34,7966 -34,7966 -34,7966 -34,7966 -34,7966 -34,7966	86400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0	
-15,6891     27612     8     -16,4646     27612     8     -17,2047     27612     8       -14,8649     41418     12     -15,7941     41418     12     -16,6810     41418     12       -14,7795     62127     17     -15,8386     62127     17     -16,6497     62127     17	Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0003 -0,0019 -0,0019 -0,0037 -0,0065 -0,0106 -0,0168 -0,0168 -0,0261 -0,0401 -0,0610 -0,0924 -0,1393 -0,2096 -0,3148 -0,4718 -0,7059 -1,0536 -1,5678 -2,3227 -3,4200 -4,9912 -7,1929 -10,18488 -14,0772 -18,8372 -24,1558 -33,3933 -35,1953 -34,2052 -30,7747 -25,0362	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		-9,7434 Displ [mm] 0,0000 -0,0001 -0,0001 -0,0003 -0,0003 -0,0005 -0,005 -0,0005 -0,005 -	85400           Time [sec.]           0           11           12           2           4           6           8           12           13           19           28           42           63           95           142           213           319           479           718           10777           1615           2424 <td>24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td></td> <td>-11,1384 Displ [mm] 0,0000 0,0000 0,0000 -0,0001 -0,0003 -0,0003 -0,0003 -0,0003 -0,003 -0,003 -0,003 -0,0103 -0,0003 -0,0103 -0,005 -0,0003 -0,0003 -0,0003 -0,0103 -0,005 -0,0003 -0,0053 -0,0053 -0,0053 -0,0053 -0,0053 -0,0053 -0,0053 -0,0053 -0,0053 -0,0053 -0,0053 -0,0053 -0,0053 -0,0053 -0,0053 -0,0053 -0,0055 -0,005 -0,005 -0,0055 -0,0055 -0,00</td> <td>85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>24 Time [b.] 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td></td>	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-11,1384 Displ [mm] 0,0000 0,0000 0,0000 -0,0001 -0,0003 -0,0003 -0,0003 -0,0003 -0,003 -0,003 -0,003 -0,0103 -0,0003 -0,0103 -0,005 -0,0003 -0,0003 -0,0003 -0,0103 -0,005 -0,0003 -0,0053 -0,0053 -0,0053 -0,0053 -0,0053 -0,0053 -0,0053 -0,0053 -0,0053 -0,0053 -0,0053 -0,0053 -0,0053 -0,0053 -0,0053 -0,0053 -0,0055 -0,005 -0,005 -0,0055 -0,0055 -0,00	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [b.] 0 0 0 0 0 0 0 0 0 0 0 0 0	
-14,8649         41418         12         -15,7941         41418         12         -16,6810         41418         12           -14,7795         62127         17         -15,8386         62127         17         -16,6497         62127         17	Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0003 -0,0010 -0,0106 -0,0106 -0,0106 -0,0106 -0,0106 -0,0106 -0,0106 -0,0106 -0,0106 -0,0106 -0,0106 -0,0106 -0,0106 -0,0106 -0,0106 -0,0214 -0,7059 -1,5678 -2,3277 -3,4200 -0,1888 -14,07722 -24,1598 -33,3933 -35,15953 -34,2052 -34,205 -35,507 -35	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		-9,7434 Displ [mm] 0,0000 -0,0001 -0,0001 -0,0002 -0,0005 -0,0010 -0,0019 -0,003 -0,005 -0,	85400           Time [sec.]           0           11           1           2           2           4           63           95           142           213           319           479           718           10077           1616           2424           3636           5454           8181           12272	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-11,1384 Displ [mm] 0,0000 0,0000 -0,0001 -0,0002 -0,0003 -0,0003 -0,005 -0,003 -0,005 -0,003 -0,005 -0,055 -0,055 -1,5157 -3,505 -3,4968 -34,4968 -34,4964 -34,5641 -34,4964 -34,5641 -34,4964 -34,5641 -34,49654 -34,49554 -	86400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [b.] 0 0 0 0 0 0 0 0 0 0 0 0 0	
-14,7795 62127 17 -15,8386 62127 17 -16,8497 62127 17	Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0003 -0,0010 -0,0019 -0,0019 -0,0019 -0,0010 -0,016 -0,0166 -0,0166 -0,0166 -0,0166 -0,0167 -0,0261 -0,0401 -0,0520 -0,010 -0,018 -0,0261 -0,0261 -0,0401 -0,0520 -0,010 -0,005 -0,010 -0,000 -0,010 -0,00	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		-9,7434 Displ [mm] 0,0000 -0,0001 -0,0001 -0,0003 -0,0010 -0,0010 -0,0019 -0,0019 -0,0016 -0,0105 -0,0105 -0,0105 -0,0105 -0,0105 -0,0105 -0,0105 -0,0105 -0,0105 -0,0105 -0,0257 -0,1370 -0,2061 -0,3095 -0,45941 -1,0360 -1,5417 -2,2843 -3,3637 -2,2843 -3,3637 -2,2843 -3,3637 -2,2843 -3,3637 -2,2843 -3,3637 -2,2843 -3,3637 -2,2843 -3,3637 -2,2843 -3,3637 -2,2843 -2,2843 -2,2843 -3,3637 -2,2843 -2,2843 -2,2843 -2,2843 -2,2843 -2,2843 -2,2843 -2,2843 -2,2843 -2,2843 -2,2843 -2,2843 -2,2844 -3,3655 -30,7140 -2,51944 -2,17407 -2,184702	85400           Time [sec.]           0           11           12           2           4           6           8           12           19           28           42           63           95           142           213           319           479           718           10777           1615           2424           3636<	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-11,1384 Displ [mm] 0,0000 0,0000 -0,0001 -0,0002 -0,0005 -0,0005 -0,0005 -0,0018 -0,0016 -0,0016 -0,0016 -0,0103 -0,0163 -0,0163 -0,0163 -0,0163 -0,0253 -0,0059 -0,0055 -0,0059 -0,0055 -0,0055 -0,0055 -0,0055 -0,0005 -0,0055 -	86400           Time [sec.]           0           11           12           2           4           5           112           12           28           42           63           95           142           213           319           479           718           10077           1616           2424           3636           5454           8181           12472           18406	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0003 -0,0010 -0,0019 -0,0037 -0,0065 -0,0106 -0,0168 -0,0166 -0,0168 -0,0166 -0,0168 -0,0261 -0,0401 -0,0510 -0,0374 -0,0374 -0,0374 -1,5578 -2,3227 -3,4200 -4,9912 -7,1929 -10,1848 -14,0772 -18,8372 -24,1598 -33,3933 -35,1953 -34,2052 -30,7747 -26,0362 -21,3567 -1,75681 -2,3578 -3,3747 -26,0362 -21,3567 -21,35691 -1,55681 -25,578 -3,3593 -34,2052 -34,7747 -26,0362 -21,3567 -1,55681 -2,5578 -3,3593 -34,2052 -34,7747 -26,0362 -21,3567 -1,75681 -1,55681 -2,5578 -3,3593 -34,2052 -34,7747 -26,0362 -21,3567 -1,75681 -2,5581 -2,5581 -2,5581 -3,5782 -34,7747 -2,5681 -2,5581 -2,5581 -2,5581 -2,5581 -2,5581 -3,5582 -2,1,55681 -2,5581 -2,5581 -2,5581 -2,5582 -3,5782 -	85400           Time [sec.]           0           11           2           4           6           8           12           13           19           28           42           63           95           142           319           479           718           1077           1616           2424           3636           5454           8181           122702           18408           27612 <td>24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td></td> <td>-9,7434 Displ [mm] 0,0000 -0,0001 -0,0001 -0,0002 -0,0003 -0,0003 -0,0004 -0,0005 -0,0105 -0,0105 -0,0166 -0,0194 -0,0105 -0,0166 -0,0194 -0,0105 -0,0166 -0,0194 -0,0105 -0,0166 -0,0194 -0,0004 -0,0004 -0,0105 -0,0166 -0,0194 -0,0004 -0,0004 -0,0004 -0,0004 -0,0005 -0,0166 -0,0194 -0,0005 -0,0004 -0,0005 -0,0004 -0,0005 -0,0004 -0,0005 -0,0004 -0,0004 -0,0004 -0,0004 -0,0004 -0,0004 -0,0005 -0,0004 -</td> <td>85400           Time [sec.]           0           11           2           4           6           8           12           13           95           142           63           95           142           63           95           1479           718           1077           1516           2424           3636           5454</td> <td>24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td></td> <td>-11,1384 Displ [mm] 0,0000 0,0000 -0,0001 -0,0002 -0,0003 -0,0003 -0,0003 -0,0003 -0,0018 -0,003 -0,0103 -0,0163 -0,0163 -0,0163 -0,0184 -0,0388 -0,0590 -0,0388 -0,0590 -0,0384 -0,0394 -0,0394 -0,0384 -0,0394 -1,5157 -2,2474 -3,3096 -33,7346 -34,5356</td> <td>86400           Time [sec.]           0           1           2           4           5           8           12           19           28           42           63           95           142           213           319           479           718           1077           1615           2424           3636           5454           8181           1227612</td> <td>24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td></td>	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		-9,7434 Displ [mm] 0,0000 -0,0001 -0,0001 -0,0002 -0,0003 -0,0003 -0,0004 -0,0005 -0,0105 -0,0105 -0,0166 -0,0194 -0,0105 -0,0166 -0,0194 -0,0105 -0,0166 -0,0194 -0,0105 -0,0166 -0,0194 -0,0004 -0,0004 -0,0105 -0,0166 -0,0194 -0,0004 -0,0004 -0,0004 -0,0004 -0,0005 -0,0166 -0,0194 -0,0005 -0,0004 -0,0005 -0,0004 -0,0005 -0,0004 -0,0005 -0,0004 -0,0004 -0,0004 -0,0004 -0,0004 -0,0004 -0,0005 -0,0004 -	85400           Time [sec.]           0           11           2           4           6           8           12           13           95           142           63           95           142           63           95           1479           718           1077           1516           2424           3636           5454	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-11,1384 Displ [mm] 0,0000 0,0000 -0,0001 -0,0002 -0,0003 -0,0003 -0,0003 -0,0003 -0,0018 -0,003 -0,0103 -0,0163 -0,0163 -0,0163 -0,0184 -0,0388 -0,0590 -0,0388 -0,0590 -0,0384 -0,0394 -0,0394 -0,0384 -0,0394 -1,5157 -2,2474 -3,3096 -33,7346 -34,5356	86400           Time [sec.]           0           1           2           4           5           8           12           19           28           42           63           95           142           213           319           479           718           1077           1615           2424           3636           5454           8181           1227612	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Displ [mm] 0,0000 -0,0001 -0,0002 -0,0003 -0,0003 -0,0010 -0,0010 -0,0010 -0,0010 -0,0010 -0,0010 -0,0010 -0,0010 -0,0010 -0,0010 -0,0010 -0,0010 -0,0168 -0,0251 -0,0401 -0,0104 -	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0		-9,7434 Displ [mm] 0,0000 -0,0001 -0,0001 -0,0003 -0,0005 -0,0005 -0,0010 -0,0019 -0,0037 -0,0034 -0,005 -0,005 -0,0037 -0,0034 -0,0037 -0,0034 -0,005 -0,005 -0,0034 -0,005 -0,0034 -0,005 -0,0034 -0,005 -0,0034 -0,005 -0,0034 -0,005 -0,0034 -0,0034 -0,005 -0,0034 -0,005 -0,0034 -0,005 -0,0034 -0,005 -0,0034 -0,005 -0,0034 -0,005 -0,005 -0,0034 -0,005 -0,005 -0,0034 -0,005 -0,0034 -0,005 -0,005 -0,0034 -0,005 -0,005 -0,005 -0,005 -0,005 -0,005 -0,0034 -0,005 -0,	85400           Time [sec.]           0           11           1           2           4           6           8           12           28           42           63           95           142           213           319           479           718           10777           1516           2424           3636           5454	24 Time [h.] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-11,1384 Displ [mm] 0,0000 0,0000 0,0000 -0,0001 -0,0003 -0,0003 -0,0003 -0,0018 -0,003 -0,003 -0,003 -0,0103 -0,013 -0,055 -0,0388 -0,0558 -9,8588 -33,794 -33,746 -33,7	85400 Time [sec.] 0 0 0 0 0 0 0 0 0 0 0 0 0	24 Time [b.] 0 0 0 0 0 0 0 0 0 0 0 0 0	

Appendix P: Data influence of diffusivity	Gesso on twist deformation
11 3	

-		1		1	-		1		· · · · ·			1
Displ [mm]	1/2 Width			Time [h.]	D=	0,0	Displ [mm]		th wist [degrees		Time [h.]	D=0,1
-0,0001	100	-7,17509E-05	0	0			-0,0001	100	-6,3253E-05	0	0	
-0,0002	100	-0,000139279		0			-0,0002	100	-0,00010115	0	0	
-0,0005	100 100	-0,000274332		0 0			-0,0003 -0,0004	100 100	-0,00015793	0	0	
-0,0008 -0,0014	100	-0,000475899 -0,000780724		0			-0,0004	100	-0,00024293 -0,00037007	0	0	
-0,0014	100	-0,001235409		0			-0,0000	100	-0,00055996	0	0	
-0,0022	100	-0,001230409	0	0			-0,0010	100	-0,00084295	0	0	
-0,0051	100	-0,002944625		õ			-0,0022	100	-0,00126342	ō	õ	
-0,0078	100	-0,004481212		ů 0			-0,0033	100	-0,00188517	ō	õ	
-0,0118	100	-0,00678468	2	0			-0,0049	100	-0,00279827	1	0	
-0,0179	100	-0,010236636		0			-0,0072	100	-0,00412586	1	0	
-0,0269	100	-0,015407293	4	0			-0,0105	100	-0,00602855	2	0	
-0,0404	100	-0,02314715	6	0			-0,0152	100	-0,00870134	2	0	
-0,0606	100	-0,034720435	8	0			-0,0216	100	-0,01235589	4	0	
-0,0908	100	-0,051998885	12	0			-0,0300	100	-0,0171859	5	0	
-0,1357	100	-0,077734282		0			-0,0407	100	-0,02333777	8	0	
-0,2023	100	-0,115932695		0	Cu	р	-0,0540	100	-0,03092155	12	0	Cup
-0,3008	100	-0,172333153		0			-0,0701	100	-0,04017018	18	0	
-0,4450	100	-0,254963963		0			-0,0903	100	-0,05171407	27	0	
-0,6539	100	-0,374637439		0			-0,1166	100	-0,06682862	40	0	
-0,9513	100	-0,545035445		0			-0,1526	100	-0,0874151	60 07	0	
-1,3644	100	-0,781689383		0			-0,2019	100	-0,11566341	90 125	0	
-1,9179	100 100	-1,09871814	319 479	0 0			-0,2677 -0,3504	100 100	-0,15337757 -0.20075571	135 202	0	
-2,6222 -3,4559	100	-1,502065723 -1,979308566		0			-0,3504 -0,4434	100	-0,20075671 -0,25404266	303	0	
-3,4339 -4,3489	100	-2,490149911		0			-0,4454 -0,5268	100	-0,23404266	455	0	
-4,5485	100	-2,967248221		0			-0,5208	100	-0,32129704	682	0	
-5,8316	100	-3,337486494		1			-0,4865	100	-0,27871484	1023	õ	
-6,2161	100	-3,556991983	3636	1			-0,2464	100	-0,14117136	1534	õ	
-6,3459	100	-3,631041117		2			0,1716	100	0,09829195	2301	1	
-6,2842	100	-3,595875698		2			0,6970	100	0,39935887	3452	1	
-6,0837	100	-3,481418212		3			1,2009	100	0,68800903	5177	1	
-5,7500	100	-3,290900818		5			1,5840	100	0,90745051	7766	2	
-5,2508	100	-3,005720752		8			1,8421	100	1,05530329	11649	3	
-4,5414	100	-2,600226751		12			2,0361	100	1,16642101	17473	5	
-3,5953	100	-2,059045381		17			2,2217	100	1,27274814	26210	7	
-2,4261	100	-1,389797455	85400	24			2,4174	100	1,38478701	39315	11	
							2,6119	100	1,49617402	58972	16	
							2,7744	100	1,58920071	85400	24	
	- /- · · · · · ·						L	<b>I</b> ma a sec. A. C.	L			
					= 0,01			2 Width	wist [degrees		Time [h.]	D=0,001
-0,0001		-7,1743E-05	0	0		-0,	.0001	100	-7,17498E-05	0	0	
-0,0002	100	-0,00013925								-	_	
-0,0004			0	0			.0002	100	-0,000139275	0	0	
		-0,00024049	0	0		-0,	.0005	100	-0,000274321	0	0	
-0,0007	100	-0,00024049 -0,00039228	0 0	0 0		-0, -0,	.0005 .0008	100 100	-0,000274321 -0,000476865	0 0	0 0	
-0,0007 -0,0011	100 100	-0,00024049 -0,00039228 -0,00061985	0 0 0	0 0 0		-0, -0, -0,	.0005 .0008 .0014	100 100 100	-0,000274321 -0,000476865 -0,000780638	0 0 0	0 0 0	
-0,0007 -0,0011 -0,0017	100 100 100	-0,00024049 -0,00039228 -0,00061985 -0,00095091	0 0 0 0	0 0 0 0		-0, -0, -0, -0,	.0005 .0008 .0014 .0022	100 100 100 100	-0,000274321 -0,000476866 -0,000780638 -0,001236197	0 0 0	0 0 0 0	
-0,0007 -0,0011 -0,0017 -0,0025	100 100 100 100	-0,00024049 -0,00039228 -0,00061985 -0,00096091 -0,00147184	0 0 0 0	0 0 0 0 0		-0, -0, -0, -0, -0,	0005 0008 0014 0022 0033	100 100 100 100 100	-0,000274321 -0,000476866 -0,000780638 -0,001236197 -0,001919305	0 0 0 0	0 0 0 0	
-0,0007 -0,0011 -0,0017 -0,0025 -0,0039	100 100 100 100 100	-0,00024049 -0,00039228 -0,00061985 -0,00096091 -0,00147184 -0,00223678	0 0 0 0 1	0 0 0 0 0 0		-0, -0, -0, -0, -0,	0005 0008 0014 0022 0033 0051	100 100 100 100 100 100	-0,000274321 -0,000476866 -0,000780638 -0,001236197 -0,001919305 -0,00294345	0 0 0 0 1	0 0 0 0 0	
-0,0007 -0,0011 -0,0017 -0,0025 -0,0039 -0,0059	100 100 100 100 100 100	-0,00024049 -0,00039228 -0,00061985 -0,00096091 -0,00147184 -0,00223678 -0,0033809	0 0 0 0 1 1	0 0 0 0 0 0 0		-0, -0, -0, -0, -0, -0,	0005 0008 0014 0022 0033 0051 0078	100 100 100 100 100 100 100	-0,000274321 -0,000476866 -0,000780638 -0,001236197 -0,001919305 -0,00294345 -0,0024438507	0 0 0 0 1 1	0 0 0 0 0 0	
-0,0007 -0,0011 -0,0017 -0,0026 -0,0039 -0,0059 -0,0089	100 100 100 100 100 100 100	-0,00024049 -0,00039228 -0,00061985 -0,00096091 -0,00147184 -0,00223678 -0,0033809 -0,00508974	0 0 0 0 1 1 1	0 0 0 0 0 0 0 0 0		-0, -0, -0, -0, -0, -0, -0,	0005 0008 0014 0022 0033 0051 0078 0118	100 100 100 100 100 100 100 100	-0,000274321 -0,000476865 -0,000780638 -0,001236197 -0,001919305 -0,00294345 -0,0024478507 -0,006778492	0 0 0 0 1 1 2	0 0 0 0 0 0 0 0	
-0,0007 -0,0011 -0,0017 -0,0026 -0,0039 -0,0059 -0,0089 -0,0133	100 100 100 100 100 100 100 100	-0,00024049 -0,00039228 -0,00051985 -0,00096091 -0,00147184 -0,00223678 -0,003809 -0,00508974 -0,00763667	0 0 0 0 1 1 2	0 0 0 0 0 0 0 0 0 0 0 0 0		-0, -0, -0, -0, -0, -0, -0, -0,	0005 0008 0014 0022 0033 0051 0078 0118 0178	100 100 100 100 100 100 100 100 100	-0,000274321 -0,000476865 -0,000780638 -0,001236197 -0,001919305 -0,00294345 -0,002478507 -0,006778492 -0,010222598	0 0 0 1 1 2 2	0 0 0 0 0 0 0 0 0	
-0,0007 -0,0011 -0,0017 -0,0026 -0,0039 -0,0059 -0,0089 -0,0133 -0,0199	100 100 100 100 100 100 100 100 100	-0,00024049 -0,00039228 -0,00061985 -0,00096091 -0,00147184 -0,00223678 -0,003809 -0,00508974 -0,00763667 -0,01142065	0 0 0 1 1 1 2 3	0 0 0 0 0 0 0 0 0 0 0 0 0		-0, -0, -0, -0, -0, -0, -0, -0, -0,	0005 0008 0014 0022 0033 0051 0078 0118 0178 0258	100 100 100 100 100 100 100 100 100 100	-0,000274321 -0,000476865 -0,000780638 -0,001236197 -0,001919305 -0,00294345 -0,004478507 -0,004778492 -0,010222598 -0,015375609	0 0 0 1 1 2 2 4	0 0 0 0 0 0 0 0 0 0	
-0,0007 -0,0011 -0,0017 -0,0026 -0,0039 -0,0059 -0,0089 -0,0133 -0,0199 -0,0297	100 100 100 100 100 100 100 100 100 100	-0,00024049 -0,00039228 -0,00061985 -0,00096091 -0,0017184 -0,00223678 -0,0033809 -0,0053667 -0,00763667 -0,01142065 -0,01701544	0 0 0 0 1 1 1 2 3 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0, -0, -0, -0, -0, -0, -0, -0, -0, -0,	0005 0008 0014 0022 0033 0051 0078 0118 0178 0258 0403	100 100 100 100 100 100 100 100 100 100	-0,000274321 -0,000476868 -0,000780638 -0,001236197 -0,0019193005 -0,0043435 -0,004478507 -0,006778492 -0,010222598 -0,015375609 -0,023075817	0 0 0 1 1 2 2 4 5	0 0 0 0 0 0 0 0 0 0 0 0	
-0,0007 -0,0011 -0,0017 -0,0025 -0,0039 -0,0059 -0,0089 -0,0133 -0,0199 -0,0199 -0,0297 -0,0440	100 100 100 100 100 100 100 100 100 100	-0,00024049 -0,00039228 -0,00051985 -0,00096091 -0,0017184 -0,00223678 -0,0033809 -0,00508974 -0,00763667 -0,01142065 -0,0171644 -0,02523489	0 0 0 0 1 1 1 2 3 4 5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0, -0, -0, -0, -0, -0, -0, -0, -0, -0,	0005 0008 0014 0022 0033 0051 0078 0118 0178 0258 0403 0603	100 100 100 100 100 100 100 100 100 100	-0,000274321 -0,000476866 -0,000780638 -0,001236197 -0,00294345 -0,0024478507 -0,006778492 -0,01022598 -0,015375609 -0,023075817 -0,034560352	0 0 0 1 1 2 2 4 5 8	0 0 0 0 0 0 0 0 0 0 0 0 0	
-0,0007 -0,0011 -0,0017 -0,0026 -0,0039 -0,0059 -0,0089 -0,0133 -0,0139 -0,0199 -0,0297 -0,0440 -0,0649	100 100 100 100 100 100 100 100 100 100	-0,00024049 -0,00039228 -0,00051985 -0,00061985 -0,00047184 -0,0023678 -0,0033809 -0,0038974 -0,00753657 -0,01742065 -0,01701544 -0,02523489 -0,0371849	0 0 0 1 1 1 2 3 4 5 9	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0, -0, -0, -0, -0, -0, -0, -0, -0, -0,	0005 0008 0014 0022 0033 0051 0078 0118 0178 0258 0403 0603 0901	100 100 100 100 100 100 100 100 100 100	-0,000274321 -0,000476866 -0,000780638 -0,001236197 -0,00294345 -0,004478507 -0,004778492 -0,010222598 -0,015375609 -0,023075817 -0,034560352 -0,051641073	0 0 0 1 1 2 2 4 5 8 12	0 0 0 0 0 0 0 0 0 0 0 0 0 0	
-0,0007 -0,0011 -0,0017 -0,0026 -0,0039 -0,0059 -0,0089 -0,0133 -0,0199 -0,0297 -0,0440 -0,0649 -0,0948	100 100 100 100 100 100 100 100 100 100	-0,00024049 -0,00039228 -0,00061985 -0,0005091 -0,00147184 -0,00223678 -0,0033809 -0,00508974 -0,00763667 -0,01142065 -0,01142065 -0,01701544 -0,02523489 -0,0371849 -0,05431323	0 0 0 1 1 2 3 4 6 9 14	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		-0, -0, -0, -0, -0, -0, -0, -0, -0, -0,	0005 0008 0014 0022 0033 0051 0078 0118 0178 0268 0403 0603 0901 1343	100 100 100 100 100 100 100 100 100 100	-0,000274321 -0,000476866 -0,001256197 -0,00125197 -0,00294345 -0,00478507 -0,006778492 -0,015375609 -0,015375609 -0,034560352 -0,0341073 -0,051641073	0 0 0 1 1 2 2 4 5 8 12 19	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
-0,0007 -0,0011 -0,0017 -0,0025 -0,0039 -0,0059 -0,0089 -0,0133 -0,0199 -0,0297 -0,0440 -0,0549 -0,0348 -0,1368	100 100 100 100 100 100 100 100 100 100	-0,00024049 -0,00039228 -0,00061985 -0,0006091 -0,00147184 -0,00223678 -0,0033809 -0,0058974 -0,00783667 -0,01142065 -0,01701544 -0,02523489 -0,0371849 -0,05431323 -0,0783737	0 0 0 0 1 1 2 3 4 5 9 14 21	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Сир	-0, -0, -0, -0, -0, -0, -0, -0, -0, -0,	0005 0008 0014 0022 0033 0051 0078 0118 0178 0258 0403 0603 0603 0901 1343 1993	100 100 100 100 100 100 100 100 100 100	-0,000274321 -0,000476856 -0,000476856 -0,001236197 -0,00294345 -0,004478507 -0,002778492 -0,012375609 -0,015375609 -0,023075817 -0,031541073 -0,035641073 -0,035641073 -0,0358445 -0,0114174295	0 0 0 1 1 2 2 4 5 8 12 19 28	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Сир
-0,0007 -0,0011 -0,0017 -0,0026 -0,0039 -0,0089 -0,0133 -0,0139 -0,0139 -0,0297 -0,0440 -0,0649 -0,0649 -0,0368 -0,1368 -0,1942	100 100 100 100 100 100 100 100 100 100	-0,00024049 -0,00039228 -0,00061985 -0,00096091 -0,0017184 -0,00223678 -0,0033809 -0,0058974 -0,00763667 -0,01142065 -0,01701644 -0,02523489 -0,0371849 -0,0541323 -0,0781377 -0,11126082	0 0 0 0 1 1 1 2 3 4 6 9 14 21 32	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Сир	-0, -0, -0, -0, -0, -0, -0, -0, -0, -0,	0005 0008 0014 0022 0033 0051 0078 0118 0178 0258 0403 0663 0663 06901 1343 1993 2941	100 100 100 100 100 100 100 100 100 100	-0,000274321 -0,000476856 -0,000476857 -0,0019305 -0,00243457 -0,00478457 -0,004778492 -0,01537565 -0,01537565 -0,034560352 -0,034560352 -0,051641073 -0,076938445 -0,118474295 -0,15848463	0 0 0 1 1 2 4 5 8 12 19 28 42	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Сир
-0,0007 -0,0011 -0,0017 -0,0026 -0,0039 -0,0059 -0,0133 -0,0199 -0,0199 -0,0199 -0,0297 -0,0440 -0,0649 -0,0488 -0,1368 -0,1368 -0,1942 -0,2599	100 100 100 100 100 100 100 100 100 100	-0,00024049 -0,00039228 -0,00061985 -0,00096091 -0,0017184 -0,00223678 -0,003809 -0,00508974 -0,00763667 -0,01142065 -0,01701644 -0,02523489 -0,0371849 -0,0371849 -0,0783737 -0,11126082 -0,15465812	0 0 0 0 1 1 1 2 3 4 6 9 14 21 32 47		Сир	-0, -0, -0, -0, -0, -0, -0, -0, -0, -0,	0005 0008 0014 0022 0033 0051 0078 0118 0178 0258 0403 0603 0603 0603 0901 1343 1993 2941 4305	100 100 100 100 100 100 100 100 100 100	-0,000274321 -0,000476866 -0,000780638 -0,001236197 -0,0024345 -0,004778492 -0,005778492 -0,01537569 -0,01537569 -0,034560352 -0,051641073 -0,075938445 -0,115474295 -0,1584453 -0,246552795	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Сир
-0,0007 -0,0011 -0,0017 -0,0026 -0,0039 -0,0039 -0,0133 -0,0139 -0,0199 -0,0297 -0,0440 -0,0649 -0,0548 -0,1942 -0,2599 -0,3558	100 100 100 100 100 100 100 100 100 100	-0,00024049 -0,00039228 -0,00061985 -0,0005091 -0,00147184 -0,00223678 -0,0033809 -0,00508974 -0,00763667 -0,01142065 -0,01701644 -0,02523489 -0,02523489 -0,02541323 -0,0783737 -0,11126082 -0,15465812 -0,20957156	0 0 0 1 1 2 3 4 5 9 14 21 32 47 71		Сир	-0, -0, -0, -0, -0, -0, -0, -0, -0, -0,	0005 0008 0014 0022 0033 0051 0078 0118 0178 0268 0403 0603 0603 0603 1343 1993 2941 4305 6231	100 100 100 100 100 100 100 100 100 100	-0,000274321 -0,000476866 -0,000780638 -0,001236197 -0,0024345 -0,004778492 -0,01022598 -0,015375609 -0,01541073 -0,051641073 -0,051641073 -0,05184453 -0,114174295 -0,1648453 -0,246552796 -0,357020851	0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Сир
-0,0007 -0,0011 -0,0017 -0,0026 -0,0039 -0,0059 -0,0089 -0,0133 -0,0199 -0,0297 -0,0440 -0,0649 -0,0948 -0,1368 -0,1368 -0,1368 -0,1368 -0,1362 -0,2699 -0,3658 -0,4817	100 100 100 100 100 100 100 100 100 100	-0,00024049 -0,00039228 -0,0006091 -0,0006091 -0,00147184 -0,00223678 -0,0033809 -0,00508974 -0,00763667 -0,01142065 -0,01701644 -0,02523489 -0,0371849 -0,05431323 -0,0783737 -0,115465812 -0,20557156 -0,2760071	0 0 0 0 1 1 2 3 4 5 9 14 21 32 47 71 105		Сир	- 0, - 0, - 0, - 0, - 0, - 0, - 0, - 0,	0005 0008 0014 0022 0033 0051 0078 0118 0178 0258 0403 0603 0603 0603 1993 2941 4305 6231 8878	100 100 100 100 100 100 100 100 100 100	-0,000274321 -0,000476866 -0,00136197 -0,001319305 -0,00294345 -0,004778407 -0,006778492 -0,015375609 -0,015375609 -0,035405405 -0,051641073 -0,075938445 -0,114174295 -0,15848465 -0,357020851 -0,35020851	0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Сир
-0,0007 -0,0011 -0,0017 -0,0025 -0,0039 -0,0059 -0,0089 -0,0133 -0,0199 -0,0297 -0,0440 -0,0649 -0,0649 -0,0548 -0,1368 -0,1942 -0,2599 -0,3658 -0,4817 -0,6161	100 100 100 100 100 100 100 100 100 100	-0,00024049 -0,00039228 -0,00061985 -0,00096091 -0,00147184 -0,00223678 -0,0033809 -0,0058974 -0,00783667 -0,0174055 -0,01740544 -0,02523489 -0,0371849 -0,0371849 -0,03741823 -0,0783737 -0,11126082 -0,276071 -0,276071 -0,25298624	0 0 0 0 1 1 2 3 4 5 9 14 21 32 47 71 1005 150		Сир	- 0, - 0, - 0, - 0, - 0, - 0, - 0, - 0,	0005 0008 0014 0022 0033 0051 0078 0118 0078 0178 0258 0403 0603 0901 1343 1993 2941 4305 6231 8878 2376	100 100 100 100 100 100 100 100 100 100	-0,000274321 -0,000476866 -0,000780638 -0,001236197 -0,0024345 -0,004778492 -0,01022598 -0,015375609 -0,01541073 -0,051641073 -0,051641073 -0,05184453 -0,114174295 -0,1648453 -0,246552796 -0,357020851	0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Сир
-0,0007 -0,0011 -0,0017 -0,0026 -0,0039 -0,0089 -0,0133 -0,0199 -0,0297 -0,0440 -0,0649 -0,0440 -0,0649 -0,0448 -0,1368 -0,1942 -0,2699 -0,3558 -0,4817 -0,6161 -0,7649	100 100 100 100 100 100 100 100 100 100	-0,00024049 -0,00039228 -0,00061985 -0,00096091 -0,0017184 -0,00223678 -0,0033809 -0,00568974 -0,00763667 -0,01142065 -0,01142065 -0,01701644 -0,02523489 -0,0371849 -0,0371849 -0,0783737 -0,11126082 -0,0783737 -0,11465812 -0,2560071 -0,25298624 -0,4382652	0 0 0 0 1 1 1 2 3 4 6 9 14 21 32 47 71 106 1560 239		Сир	-0, -0, -0, -0, -0, -0, -0, -0, -0, -0,	0005 0008 0014 0022 0033 0051 0078 0118 0258 0403 0568 0403 0563 0501 1343 1993 2941 4305 6231 4305 6231 8878 2375	100 100 100 100 100 100 100 100 100 100	-0,000274321 -0,000476856 -0,000780538 -0,0019305 -0,00294345 -0,00478807 -0,006778492 -0,010375809 -0,010375809 -0,013450352 -0,034560352 -0,05641073 -0,0144174295 -0,0164174295 -0,0164174295 -0,016848463 -0,246652796 -0,35070283 -0,35079283 -0,959993844	0 0 0 1 1 2 4 6 8 12 19 28 42 63 95 142 213 319	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Сир
-0,0007 -0,0011 -0,0017 -0,0026 -0,0039 -0,0059 -0,0133 -0,0199 -0,0199 -0,0297 -0,0440 -0,0649 -0,0948 -0,1368 -0,1942 -0,2699 -0,3658 -0,4817 -0,6161 -0,7649 -0,9180	100 100 100 100 100 100 100 100 100 100	-0,00024049 -0,00039228 -0,00061985 -0,00096091 -0,0017184 -0,00223678 -0,003809 -0,00508974 -0,00763667 -0,0112065 -0,01701644 -0,02523489 -0,0371849 -0,05431323 -0,0783737 -0,11126082 -0,0783737 -0,11126082 -0,2560071 -0,35298624 -0,4382652 -0,52593355	0 0 0 0 1 1 2 3 4 5 9 14 21 32 47 71 1005 150		Сир	-0, -0, -0, -0, -0, -0, -0, -0, -0, -0,	0005 0008 0014 0022 0033 0051 0078 0118 0178 0258 0403 0603 0603 0603 0603 1343 1993 2941 4305 5231 8878 82375 6757 1828	100 100 100 100 100 100 100 100 100 100	-0,000274321 -0,000476866 -0,000780638 -0,001236197 -0,0024345 -0,004778492 -0,004778492 -0,0153756 -0,0154707 -0,034560352 -0,0561541073 -0,075938445 -0,1164174295 -0,1584453 -0,158455746 -0,357020851 -0,357020851 -0,3590298344 -0,7959938444 -1,25047661	0 0 0 1 1 2 4 6 8 12 19 28 42 63 95 142 213 319 479	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Сир
-0,0007 -0,0011 -0,0017 -0,0026 -0,0039 -0,0039 -0,0133 -0,0199 -0,0297 -0,0440 -0,0649 -0,0948 -0,1942 -0,0948 -0,1942 -0,2699 -0,3658 -0,4817 -0,5161 -0,7649 -0,9480 -0,7949 -0,9485	100 100 100 100 100 100 100 100 100 100	-0,00024049 -0,00039228 -0,0005091 -0,0005091 -0,00147184 -0,00223678 -0,0033809 -0,00508974 -0,00753667 -0,01142065 -0,01701644 -0,02523489 -0,0371849 -0,05431323 -0,0783737 -0,115465812 -0,20597156 -0,2760071 -0,35298624 -0,5259355 -0,5259355 -0,52072424	0 0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 77 1 1005 150 239 3559 539		Сир	-0, -0, -0, -0, -0, -0, -0, -0, -0, -0,	0005 0008 0014 0022 0033 0051 0078 0118 0178 0258 0403 0503 0501 1343 1993 2941 4305 6231 4305 6231 8878 82376 757 1828 7035	100 100 100 100 100 100 100 100 100 100	-0,000274321 -0,000476866 -0,001256197 -0,001294305 -0,00294345 -0,00478807 -0,00578492 -0,015375609 -0,015375609 -0,03540587 -0,03540478 -0,075938445 -0,075938445 -0,114174295 -0,16848463 -0,246652796 -0,357020851 -0,508550546 -0,709079283 -0,508550546 -1,25047661 -1,5548637085	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Сир
-0,0007 -0,0011 -0,0017 -0,0025 -0,0039 -0,0059 -0,0089 -0,0133 -0,0199 -0,0297 -0,0440 -0,0649 -0,0649 -0,0649 -0,1368 -0,1942 -0,2699 -0,3658 -0,4817 -0,6161 -0,7649 -0,9180 -0,7649 -0,9180 -1,0485 -1,1031	100 100 100 100 100 100 100 100 100 100	-0,00024049 -0,00039228 -0,00061985 -0,00096091 -0,00147184 -0,00223678 -0,0033809 -0,0053667 -0,01142065 -0,01701644 -0,02523489 -0,0371849 -0,05431323 -0,0783737 -0,11126082 -0,20597155 -0,2760071 -0,35298624 -0,4382652 -0,52593355 -0,52593355	0 0 0 0 1 1 2 3 4 6 9 14 21 32 47 71 106 150 239 539 539 808		Сир	-0, -0, -0, -0, -0, -0, -0, -0, -0, -0,	0005 0008 0014 0022 0033 0051 0078 0118 0178 0258 0403 0603 0403 0603 1343 1993 2941 4305 6231 8878 2231 8878 2375 6757 1828 7035 11847	100 100 100 100 100 100 100 100 100 100	-0,000274321 -0,000476856 -0,001236197 -0,0013457 -0,004478507 -0,004778492 -0,004778492 -0,00278492 -0,015375609 -0,015375609 -0,023075817 -0,035461073 -0,01541073 -0,01541073 -0,015441073 -0,015441073 -0,0154450796 -0,357020851 -0,357020851 -0,35020851 -0,359098344 -1,25047661 -1,254857085 -1,7954857085 -1,7954857085	0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718 1077	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Сир
-0,0007 -0,0011 -0,0017 -0,0026 -0,0039 -0,0089 -0,0133 -0,0199 -0,0297 -0,0440 -0,0649 -0,04649 -0,1942 -0,2699 -0,3658 -0,4817 -0,6161 -0,7649 -0,9180 -1,0485 -1,1031 -1,0049	100 100 100 100 100 100 100 100 100 100	-0,00024049 -0,00039228 -0,00061985 -0,00096091 -0,00147184 -0,00223678 -0,0033809 -0,0053667 -0,0174055 -0,01740544 -0,02523489 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,03741323 -0,0783737 -0,11126082 -0,126071 -0,35298624 -0,2593355 -0,60072424 -0,630213 -0,57573445	0 0 0 0 1 1 2 3 4 5 9 14 21 32 47 71 1005 1500 239 359 8008 1212		Cup	- 0, - 0, - 0, - 0,	0005 0008 0014 0022 0033 0051 0078 0118 0078 0268 0403 0603 0901 1343 1993 2941 4305 6231 8878 2376 6757 1828 8775 7035 1347 3341	100 100 100 100 100 100 100 100 100 100	-0,000274321 -0,000476856 -0,000476857 -0,0013457 -0,0024345 -0,004778492 -0,002478507 -0,00278492 -0,015375609 -0,023075817 -0,034560352 -0,054650795 -0,357020851 -0,3587020851 -0,359938344 -0,50850546 -0,3599938344 -1,548637085 -1,5485755 -1,909574043	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1615		Сир
-0,0007 -0,0011 -0,0017 -0,0026 -0,0039 -0,0089 -0,0133 -0,0199 -0,0297 -0,0440 -0,0649 -0,0440 -0,0649 -0,0440 -0,0440 -0,1368 -0,1942 -0,2699 -0,3558 -0,4817 -0,5161 -0,7649 -0,9180 -1,0485 -1,1031 -1,0049 -0,6862	100 100 100 100 100 100 100 100 100 100	-0,00024049 -0,00039228 -0,00061985 -0,00061985 -0,0007184 -0,00223678 -0,0033809 -0,00508974 -0,00763667 -0,01142065 -0,01142065 -0,01701644 -0,02523489 -0,0371849 -0,0781737 -0,11126082 -0,0783737 -0,11126082 -0,2560071 -0,35298624 -0,4382652 -0,52593355 -0,66072424 -0,6320213 -0,57573445 -0,39316033	0 0 0 0 1 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 539 539 808 12121 21212 1818	0 0 0 0 0 0 0 0 0 0 0 0 0 0	Сир	- 0, - 0, - 0, - 0,	0005 0008 0014 0022 0033 0051 0078 0118 0258 0403 0568 0403 0563 0501 1343 1993 2941 4305 6231 1993 2941 4305 6231 2375 757 1828 7735 1827 1347 1347	100 100 100 100 100 100 100 100 100 100	-0,000274321 -0,000476856 -0,001236197 -0,0024345 -0,0024345 -0,002478507 -0,005778492 -0,010327580 -0,01327580 -0,01347850 -0,034560352 -0,05641073 -0,056938445 -0,056850546 -0,508650546 -0,508650546 -0,508650546 -0,508650546 -0,508650546 -0,508650546 -0,508650546 -0,508650546 -1,5048637088 -1,25047661 -1,25047661 -1,25047643 -1,25047643 -1,399574043 -1,399574043	0 0 0 1 1 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1615 2424		Cup
-0,0007 -0,0011 -0,0017 -0,0026 -0,0039 -0,0089 -0,0133 -0,0199 -0,0297 -0,0440 -0,0649 -0,04649 -0,1942 -0,2699 -0,3658 -0,4817 -0,6161 -0,7649 -0,9180 -1,0485 -1,1031 -1,0049	100 100 100 100 100 100 100 100 100 100	-0,00024049 -0,00039228 -0,00061985 -0,00061985 -0,0007184 -0,00223678 -0,0033809 -0,00508974 -0,00763667 -0,01142065 -0,01142065 -0,01701644 -0,02523489 -0,0371849 -0,0781737 -0,11126082 -0,0783737 -0,11126082 -0,2560071 -0,35298624 -0,4382652 -0,52593355 -0,66072424 -0,6320213 -0,57573445 -0,39316033	0 0 0 0 1 1 2 3 4 5 9 14 21 32 47 71 1005 1500 239 359 8008 1212		Сир	- 0, - 0, - 0, - 0,	0005 0008 0014 0022 0033 0051 0078 0118 0078 0268 0403 0603 0901 1343 1993 2941 4305 6231 8878 2376 6757 1828 8775 7035 1347 3341	100 100 100 100 100 100 100 100 100 100	-0,000274321 -0,000476856 -0,000476857 -0,0013457 -0,0024345 -0,004778492 -0,002478507 -0,00278492 -0,015375609 -0,023075817 -0,034560352 -0,054650795 -0,3567020851 -0,356950546 -0,359998344 -1,25047661 -1,548637085 -1,3945755 -1,909574043	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1615		Сир
-0,0007 -0,0011 -0,0017 -0,0026 -0,0039 -0,0089 -0,0133 -0,0199 -0,0297 -0,0440 -0,0649 -0,0440 -0,0649 -0,0440 -0,0440 -0,1368 -0,1942 -0,2699 -0,3558 -0,4817 -0,5161 -0,7649 -0,9180 -1,0485 -1,1031 -1,0049 -0,6862	100 100 100 100 100 100 100 100 100 100	-0,00024049 -0,00039228 -0,00051985 -0,0005091 -0,00147184 -0,00223678 -0,0033809 -0,00508974 -0,00763667 -0,01142065 -0,01701544 -0,00783737 -0,012523489 -0,05431323 -0,0783737 -0,11126082 -0,154055812 -0,2598624 -0,4382652 -0,52593355 -0,60072424 -0,6320213 -0,57573445 -0,39316033 -0,08463669	0 0 0 0 1 1 1 2 3 4 6 9 14 21 32 47 71 106 160 239 359 539 539 539 808 12121 21212 1818	0 0 0 0 0 0 0 0 0 0 0 0 0 0	Сир	- 0, - 0, - 0, - 0, - 1, - 1, - 3, - 3, - 3, - 3, - 2, - 2, - 2, - 2, - 2, - 3, - 3, - 3, - 2, - 2, - 2, - 2, - 2, - 2, - 2, - 2	0005 0008 0014 0022 0033 0051 0078 0118 0258 0403 0568 0403 0563 0501 1343 1993 2941 4305 6231 1993 2941 4305 6231 2375 757 1828 7735 1827 1347 1347	100 100 100 100 100 100 100 100 100 100	-0,000274321 -0,000476856 -0,001236197 -0,0024345 -0,0024345 -0,002478507 -0,005778492 -0,010327580 -0,01327580 -0,013450352 -0,01541073 -0,034560352 -0,01641073 -0,076938445 -0,014474295 -0,016848463 -0,246552796 -0,37020851 -0,508650546 -0,508650546 -0,508050546 -0,508050546 -0,508050546 -1,5048637088 -1,25047661 -1,25047661 -1,25047643 -1,25047645 -1,25047645 -1,25047645 -1,25047645 -1,25047645 -1,25047645 -1,25047645 -1,25047645 -1,25047645 -1,25047645 -1,25047645 -1,25047645 -1,2504765 -1,2504765 -1,2504765 -1,2504765 -1,2504765 -1,2504765 -1,2504765 -1,2504765 -1,250476	0 0 0 1 1 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1615 2424		Сир
-0,0007 -0,0011 -0,0017 -0,0026 -0,0039 -0,0059 -0,0133 -0,0199 -0,0297 -0,0440 -0,0649 -0,0948 -0,1368 -0,1942 -0,2699 -0,3658 -0,4817 -0,5161 -0,7649 -0,9180 -1,0485 -1,1031 -1,0049 -0,0497 -0,049 -0,048 -0,019 -0,048 -0,049 -0,040 -0,040 -0,040 -0,040 -0,040 -0,040	100 100 100 100 100 100 100 100 100 100	-0,00024049 -0,00039228 -0,0006091 -0,0006091 -0,00147184 -0,00223678 -0,0033809 -0,00508974 -0,0073657 -0,01142065 -0,01701544 -0,02523489 -0,0371849 -0,05431323 -0,0783737 -0,11126082 -0,15465812 -0,20557155 -0,2760071 -0,35298524 -0,4382652 -0,5259355 -0,5259355 -0,527573445 -0,39316033 -0,08453659 0,28924096	0 0 0 0 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 3559 539 808 81212 1212 1818 2727		Cup	- 0, - 0, - 0, -0, - 2, -2, - 3, -3, - 2, -2, - 2, -2, - 2, -2, - 2, -2, - 2, -2, -2, - 2, -2, -2, -2, -2, -2, -2, -2, -2, -2,	0005 0008 0014 0022 0033 0051 0078 0118 0178 0258 0403 0603 0603 0603 0603 0603 0603 0603	100 100 100 100 100 100 100 100 100 100	-0,000274321 -0,000476863 -0,00125197 -0,001291305 -0,00294345 -0,00478507 -0,00578492 -0,015375609 -0,015375609 -0,03540173 -0,03540173 -0,075938445 -0,114174295 -0,16848463 -0,2665276 -0,2665276 -0,250850546 -0,79079283 -0,508650546 -1,25047661 -1,548637085 -1,259485755 -1,959574043 -1,81222838 -1,476391649	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1615 2424 3635		Сир
-0,0007 -0,0011 -0,0017 -0,0025 -0,0039 -0,0059 -0,0133 -0,0199 -0,0297 -0,0440 -0,0649 -0,0948 -0,1368 -0,1942 -0,2699 -0,3658 -0,4817 -0,6151 -0,7649 -0,558 -1,1031 -1,0049 -1,0049 -0,56852 -0,1477 0,5048	100 100 100 100 100 100 100 100 100 100	-0,00024049 -0,00039228 -0,00061985 -0,00061985 -0,0003928 -0,003809 -0,0033809 -0,003867 -0,01142065 -0,01701644 -0,02523489 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0381323 -0,0783737 -0,11126082 -0,2590715 -0,2760071 -0,35298624 -0,4382652 -0,52593355 -0,60072424 -0,6320213 -0,57573445 -0,3816033 -0,08463669 0,28924096	0 0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 539 808 1212 859 539 808		Сир	- 0, - 1, - 3, - 3, - 1, - 1, - 1, - 0, - 0, - 1, - 1, - 1, - 1, - 0, - 1, - 1,	0005 0008 0014 0022 0033 0051 0078 0118 0178 0258 0403 0603 0501 1343 1993 2941 4305 6231 8878 2231 8878 2237 6757 5231 1828 7035 1347 3341 1657 5774 6551	100 100 100 100 100 100 100 100 100 100	-0,000274321 -0,000476866 -0,001363697 -0,00294345 -0,004478507 -0,00294345 -0,00478807 -0,00578492 -0,015375609 -0,03540540 -0,0354045 -0,051641073 -0,051641073 -0,051641073 -0,051641073 -0,0508450546 -0,357020851 -0,357020851 -0,358020851 -0,508650546 -0,359998344 -0,508650546 -1,5047661 -1,548637085 -1,59485756 -1,909574043 -1,478391549 -0,4948210142	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cup
-0,0007 -0,0011 -0,0017 -0,0025 -0,0039 -0,0089 -0,0133 -0,0199 -0,0297 -0,0440 -0,0649 -0,0548 -0,1942 -0,2699 -0,3658 -0,1942 -0,2659 -0,3658 -0,4817 -0,5161 -0,7649 -0,9180 -1,0485 -1,1031 -1,0049 -0,6862 -0,1477 0,5048 1,1077	100 100 100 100 100 100 100 100 100 100	-0,00024049 -0,00039228 -0,00061985 -0,00096091 -0,0017184 -0,00223678 -0,0033809 -0,0058974 -0,00763667 -0,01742065 -0,01740544 -0,02523489 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,037377 -0,11126082 -0,11126082 -0,20957156 -0,276071 -0,35298624 -0,2593355 -0,620071424 -0,63820213 -0,657573445 -0,93316033 -0,63463669 0,28924096 0,63462221 0,63462221 0,63462221	0 0 0 0 1 1 2 3 4 5 9 14 21 32 47 71 106 150 239 359 539 808 1212 1818 808	0       0         1       1         2       1	Сир	- 0, - 1, - 2, - 3, - 3, - 3, - 0, - 0, - 0, - 0, - 0, - 0, - 0, - 0, - 1, - 2, - 2, - 2, - 0, - 0, - 0, - 0, - 0, - 0, - 0, - 2, - 2, - 2, - 0, - 0, - 0, - 0, - 0, - 0, - 0, - 0, - 2, - 3, - 3, - 3, - 0, - 0,	0005 0008 0014 0022 0033 0051 0078 0118 0178 0258 0403 0603 0901 1343 1993 2941 4305 6231 1343 2941 4305 6231 8878 2376 6757 1828 878 2376 6757 1828 7035 1347 13341 1557 5774 6551 5985	100 100 100 100 100 100 100 100 100 100	-0,000274321 -0,000476856 -0,001236197 -0,0024345 -0,00478507 -0,0024345 -0,00478507 -0,00278492 -0,015375609 -0,015375609 -0,023075817 -0,03450352 -0,056850796 -0,24652796 -0,357020851 -0,357020851 -0,350205056 -1,548657085 -1,548657085 -1,54857	0 0 0 1 1 2 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Сир
-0,0007 -0,0011 -0,0017 -0,0026 -0,0039 -0,0089 -0,0133 -0,0199 -0,0297 -0,0440 -0,0649 -0,0649 -0,0649 -0,0649 -0,0649 -0,1368 -0,1368 -0,1368 -0,1368 -0,1368 -0,1368 -0,3658 -0,54817 -0,6161 -0,7649 -0,9180 -1,0485 -1,1031 -1,0049 -0,6862 -0,1477 0,5048 1,1077 1,5520	100 100 100 100 100 100 100 100 100 100	-0,00024049 -0,00039228 -0,0006091 -0,00147184 -0,00223678 -0,003809 -0,0058974 -0,00783667 -0,01142065 -0,01701644 -0,02523489 -0,02523489 -0,02523489 -0,02523489 -0,02523489 -0,02523489 -0,02523489 -0,02523489 -0,02523489 -0,02523485 -0,02525156 -0,2760071 -0,32528624 -0,32528624 -0,32528624 -0,52593355 -0,60072424 -0,6320213 -0,57573445 -0,39316033 -0,08463669 0,28224096 0,63462221 0,68318202 1,0576287 2	0 0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 359 8008 1212 1818 2727 1818 2727 1818 2727 1818 2727 2839 283	0 0 0 0 0 0 0 0 0 0 0 0 0 0	Сир	- 0, - 1, - 1, - 3, - 3, - 3, - 3, - 3, - 1, - 1, - 1, - 0, - 0, - 0, - 0, - 0, - 0, - 0, - 1, - 1, - 2, - 2, - 1, - 1, - 1, - 0, - 0, - 0, - 0, - 0, - 0, - 1, - 1, - 3, - 3, - 3, - 3, - 3, - 3, - 1, - 1, - 0, - 0, - 0, - 0, - 1, - 1,	0005 0008 0014 0022 0033 0051 0078 0118 0078 0178 0268 0403 0603 0603 0603 0603 0603 0603 0901 1343 1993 2941 4305 6231 1343 2941 4305 6231 1343 2341 1557 5774 3341 1557 5585 5985	100 100 100 100 100 100 100 100 100 100	-0,000274321 -0,000768638 -0,001780538 -0,0024345 -0,0024345 -0,004778492 -0,002778492 -0,015375609 -0,015375609 -0,034560352 -0,034560352 -0,054641073 -0,16848463 -0,36850546 -0,35090548 -0,35090548 -1,5548637085 -1,55485755 -1,909574043 -1,813229838 -1,475931649 -0,942517189 -0,942517189 -0,942517189 -0,942517189 -0,942517189 -0,942517188 -0,94251718 -0,9451718 -0,9451718 -0,9451718 -0,9451718 -0,9451718 -0	0 0 0 1 1 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1615 2424 3635 5454 8181 12272	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Сир
-0,0007 -0,0011 -0,0017 -0,0039 -0,0039 -0,0133 -0,0199 -0,0297 -0,0440 -0,0649 -0,0948 -0,1368 -0,1942 -0,2699 -0,3658 -0,4817 -0,5658 -0,4817 -0,5161 -0,7649 -0,9180 -1,0485 -1,1031 -1,0049 -0,6862 -0,1477 0,5048 1,1077 1,5520 1,8461	100 100 100 100 100 100 100 100 100 100	-0,00024049 -0,00039228 -0,00051985 -0,0005091 -0,00147184 -0,00223678 -0,0033809 -0,0053657 -0,01142065 -0,01701644 -0,02523489 -0,0371849 -0,05431323 -0,0783737 -0,11126082 -0,15465812 -0,2760071 -0,25298524 -0,4382652 -0,5293355 -0,529355 -0,529355 -0,529355 -0,529355 -0,529355 -0,529355 -0,529355 -0,529355 -0,529355 -0,529355 -0,529355 -0,529355 -0,529355 -0,539355 -0,539355 -0,539355 -0,54072424 -0,5329355 -0,54072424 -0,5329355 -0,54072424 -0,5329355 -0,54072424 -0,539355 -0,54072424 -0,539355 -0,54072424 -0,539355 -0,54072424 -0,539355 -0,54072424 -0,539355 -0,54072424 -0,539355 -0,54072424 -0,539355 -0,54072424 -0,539355 -0,54072424 -0,539355 -0,54072424 -0,539355 -0,54072424 -0,539355 -0,54072424 -0,539355 -0,54072424 -0,539355 -0,54072424 -0,539355 -0,54072424 -0,539355 -0,54072424 -0,5407242 -0,54072424 -0,5407242 -0,5407242 -0,5407242 -0,5407242 -0,5407242 -0,540724 -0,54074 -0,540	0 0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 71 106 160 150 539 359 539 808 1212 1818 1212 1818 1212 135 1212 135 14 155 121 155 121 155 121 155 121 155 121 155 121 155 155	0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cup	- 0, - 2, - 2, - 3, - 3, - 2, - 1, - 1,	0005 0008 0014 0022 0033 0051 0078 0118 0178 0268 0403 0568 0403 0563 0403 0563 0403 0563 0403 0563 0403 0563 0403 0563 0591 1343 1993 2941 0433 2941 0435 0523 1347 1357 1347 1357 1557 5585 55774 0555 15985	100 100 100 100 100 100 100 100 100 100	-0,000274321 -0,000476863 -0,00125197 -0,001291305 -0,00294345 -0,00478507 -0,00578492 -0,015375609 -0,015375609 -0,0357020851 -0,051641073 -0,076938445 -0,114174295 -0,357020851 -0,2465279 -0,357020851 -0,50850546 -1,795485756 -1,795485756 -1,795485765 -1,79548576 -1,79548576 -1,79548576 -1,79548576 -1,79548576 -1,79548576 -1,79548576 -1,79548576 -1,79548576 -1,79548576 -1,79548576 -1,79548576 -1,79548576 -1,79548576 -1,79548576 -1,79548576 -1,79548576 -1,79548778 -1,79548778 -1,79548778 -1,79548778 -1,795487576 -1,795487576 -1,79548778 -1,7954878 -1,7954878 -1,7954878 -1,7954878 -1	0 0 0 1 1 2 4 6 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272 18408	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Сир
-0,0007 -0,0011 -0,0017 -0,0025 -0,0039 -0,0059 -0,0133 -0,0199 -0,0297 -0,0440 -0,0649 -0,0948 -0,1368 -0,1942 -0,2699 -0,3658 -0,4817 -0,6161 -0,7649 -0,558 -1,1031 -1,0049 -0,5485 -1,1031 -1,0049 -0,5662 -0,1477 0,5048 1,1077 1,5520 1,8461 2,0653	100 100 100 100 100 100 100 100 100 100	-0,00024049 -0,00039228 -0,00061985 -0,00061985 -0,0003928 -0,003809 -0,0023678 -0,0033809 -0,0073657 -0,01142065 -0,01701644 -0,02523489 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,037377 -0,11126082 -0,11126082 -0,2559355 -0,2760071 -0,35298624 -0,35298624 -0,52593355 -0,52593355 -0,52593355 -0,527573445 -0,53456221 -0,5346569 0,28924095 0,63462221 0,834569 2,834569 2,834569 -0,84453659 0,28924095 0,63462221 1,0576287 1,18313289 2,30063138 -0,0000000 -0,00000000000000000000000	0 0 0 0 1 1 2 3 4 5 9 14 21 32 47 71 106 160 239 359 539 808 1212 359 539 808 1212 239 2359 539 808 1212 239 1212 239 1218 239 2359 539 808 1212 239 1218 239 2359 239 2359 239 2359 239 2359 239 2359 239 239 2359 239 239 239 239 239 239 239 23	0 0 0 0 0 0 0 0 0 0 0 0 0 0	Сир	$\begin{array}{c} -0,\\ -0,\\ -0,\\ -0,\\ -0,\\ -0,\\ -0,\\ -0,\\$	0005 0008 0014 0022 0033 0051 0078 0178 0258 0403 0603 0603 0603 0603 0603 0603 0603	100 100 100 100 100 100 100 100 100 100	-0,000274321 -0,000476866 -0,001919305 -0,00294345 -0,00478507 -0,0078429 -0,015375609 -0,02307817 -0,035460352 -0,0354041073 -0,03540452 -0,0584463 -0,26652796 -0,26652796 -0,26652796 -0,26652796 -0,26652796 -1,25047651 -1,5047651 -1,54845756 -1,25047651 -1,5485756 -1,909574043 -1,81322838 -1,475391849 -0,948210142 -0,948210142 -0,948207188 0,055705925 0,05705925 0,05705925	0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718 1077 1515 2424 3635 5454 8181 12272 18408 27512	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cup
-0,0007 -0,0011 -0,0017 -0,0025 -0,0039 -0,0089 -0,0133 -0,0199 -0,0297 -0,0440 -0,0649 -0,0649 -0,0548 -0,1942 -0,2699 -0,3658 -0,4817 -0,6161 -0,7649 -0,9180 -1,0485 -1,1031 -1,0049 -0,6862 -0,1477 0,5048 1,1077 1,5520 1,8461 2,0653 2,2704	100 100 100 100 100 100 100 100 100 100	-0,00024049 -0,00039228 -0,00061985 -0,00061985 -0,00036091 -0,00023678 -0,0033809 -0,0053667 -0,01742065 -0,01742065 -0,01742065 -0,017424 -0,02523489 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0381323 -0,63062213 -0,63463669 0,63463659 0,63462221 0,88918202 1,0376287 2,118313289 2,30063138 1,41946455 -0,2000000 -0,00000000 -0,000000000 -0,0000000000	0 0 0 0 1 1 2 3 4 5 9 14 21 32 47 71 106 150 239 359 539 808 1212 1818 808 1212 1818 539 808 1212 1818 808 808 1212 1818 808 808 808 808 808 808 80	0 0 0 0 0 0 0 0 0 0 0 0 0 0	Сир	$\begin{array}{c} -0,\\ -0,\\ -0,\\ -0,\\ -0,\\ -0,\\ -0,\\ -0,\\$	0005 0008 0014 0022 0023 0051 0078 0118 0178 0258 0403 0603 1343 1993 2941 4305 6231 8878 2376 6757 1828 2375 6757 1828 7735 1347 13541 1557 13541 1557 5985 3778 2574	100 100 100 100 100 100 100 100 100 100	-0,000274321 -0,000476856 -0,001780538 -0,001319305 -0,00243457 -0,004778492 -0,005778492 -0,015375609 -0,015375609 -0,023075817 -0,035460352 -0,051641073 -0,051641073 -0,051641073 -0,05650546 -0,050650546 -0,357020851 -0,357020851 -1,25047661 -1,25047505 -1,25047561 -1,25047505 -1,25047561 -1,25047505 -1,359393844 -1,254857056 -1,359574043 -1,45845105 -1,475931564 -0,948210142 -0,942927188 0,05740257 -0,97443275 -0,9744327 -0,974	0 0 0 1 1 2 2 4 5 8 12 19 28 42 63 95 142 213 319 479 718 1077 1616 2424 3636 5454 8181 12272 18408 27612 12	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Сир
-0,0007 -0,0011 -0,0017 -0,0026 -0,0039 -0,0089 -0,0133 -0,0199 -0,0297 -0,0440 -0,0649 -0,0649 -0,0649 -0,0649 -0,1942 -0,2699 -0,3658 -0,1942 -0,2699 -0,3658 -0,4817 -0,5161 -0,7649 -0,9180 -1,0485 -1,1031 -1,0049 -0,6852 -0,1477 0,5648 1,1077 1,5520 1,8461 2,0653 2,2704 2,4779	100 100 100 100 100 100 100 100 100 100	-0,00024049 -0,00039228 -0,00061985 -0,00061985 -0,00036278 -0,003809 -0,0023678 -0,003809 -0,0058974 -0,00763667 -0,01142005 -0,01701644 -0,02523489 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371845812 -0,0783737 -0,11126082 -0,11126082 -0,25057156 -0,276071 -0,35298624 -0,4382652 -0,52593355 -0,620071424 -0,4382652 -0,57573445 -0,39316033 -0,68463669 -0,63462221 0,88918202 1,0576287 2,30063138 1,41946456 4,53122602 0,0000000000000000000000000000000000	0 0 0 0 1 1 1 2 3 4 5 9 14 21 32 47 105 160 239 359 539 808 1212 1818 808 1212 1818 2727 4091 6136 9204 1326 1367 1375 105 105 105 105 105 105 105 10	0 0 0 0 0 0 0 0 0 0 0 0 0 0	Сир	$\begin{array}{c} -0,\\ -0,\\ -0,\\ -0,\\ -0,\\ -0,\\ -0,\\ -0,\\$	0005 0008 0014 0022 0033 0051 0078 0118 0258 0403 0603 0901 1343 1993 2941 4305 6231 1343 2941 4305 6231 1343 2941 4305 6231 1343 2376 6757 1828 8878 2376 6757 1828 575 1828 535 1347 3341 1557 5574 1557 5774 16551 15585 53778 1462 2378 1462 15585 15577 15577 1557 155	100 100 100 100 100 100 100 100 100 100	-0,000274321 -0,000476856 -0,001780538 -0,00243457 -0,00243457 -0,00243457 -0,002478507 -0,002478507 -0,0023075817 -0,015375609 -0,023075817 -0,045632796 -0,05615041073 -0,16448463 -0,24652796 -0,58650546 -0,58650546 -0,58650546 -1,546637085 -1,54637085 -1,5	0 0 0 1 1 2 4 6 8 12 19 28 42 63 95 142 213 319 718 1077 1616 2424 3636 5454 8181 12272 18408 27612	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Сир
-0,0007 -0,0011 -0,0017 -0,0026 -0,0039 -0,0089 -0,0133 -0,0199 -0,0297 -0,0440 -0,0649 -0,0440 -0,0649 -0,0440 -0,0548 -0,1942 -0,2699 -0,3658 -0,4817 -0,5161 -0,7649 -0,9180 -1,0485 -1,1031 -1,0049 -0,6862 -0,1477 0,5048 1,1077 1,5520 1,8461 2,0533 2,2704 2,4779 2,6731	100 100 100 100 100 100 100 100 100 100	-0,00024049 -0,00039228 -0,00061985 -0,00061985 -0,00036278 -0,003809 -0,0023678 -0,003809 -0,0058974 -0,00763667 -0,01142005 -0,01701644 -0,02523489 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371845812 -0,0783737 -0,11126082 -0,11126082 -0,25057156 -0,276071 -0,35298624 -0,4382652 -0,52593355 -0,620071424 -0,4382652 -0,57573445 -0,39316033 -0,68463669 -0,63462221 0,88918202 1,0576287 2,30063138 1,41946456 4,53122602 0,0000000000000000000000000000000000	0 0 0 0 1 1 1 2 3 4 6 9 14 21 32 47 71 106 150 239 359 808 1212 1818 2727 1818 2727 1818 2727 1815 539 808 1212 1818 2727 1815 539 808 1212 1818 2727 1815 539 808 1212 1818 2727 1818 1827 1818 1827 1815 181	0 0 0 0 0 0 0 0 0 0 0 0 0 0	Сир	$\begin{array}{c} -0,\\ -0,\\ -0,\\ -0,\\ -0,\\ -0,\\ -0,\\ -0,\\$	0005 0008 0014 0022 0033 0051 0078 0118 0258 0403 0603 0901 1343 1993 2941 4305 6231 1343 2941 4305 6231 1343 2941 4305 6231 1343 2376 6757 1828 8878 2376 6757 1828 575 1828 535 1347 3341 1557 5574 1557 5774 16551 15585 53778 1462 2378 1462 15585 15577 15577 1557 155	100 100 100 100 100 100 100 100 100 100	-0,000274321 -0,000476856 -0,001780538 -0,00243457 -0,00243457 -0,00243457 -0,002478507 -0,002478507 -0,002478507 -0,015375609 -0,015375609 -0,023075817 -0,045637085 -0,05615041073 -0,164848463 -0,164852796 -0,58650546 -0,58650546 -0,58650546 -1,546637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -0,55470421 -0,5421718 -0,54221718 -0,54221719 -1,392591841	0 0 0 1 1 2 4 6 8 12 19 28 42 63 95 142 213 319 718 1077 1616 2424 3636 5454 8181 12272 18408 27612	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Сир
-0,0007 -0,0011 -0,0017 -0,0026 -0,0039 -0,0089 -0,0133 -0,0199 -0,0297 -0,0440 -0,0649 -0,0440 -0,0649 -0,0440 -0,0548 -0,1942 -0,2699 -0,3658 -0,4817 -0,5161 -0,7649 -0,9180 -1,0485 -1,1031 -1,0049 -0,6862 -0,1477 0,5048 1,1077 1,5520 1,8461 2,0533 2,2704 2,4779 2,6731	100 100 100 100 100 100 100 100 100 100	-0,00024049 -0,00039228 -0,00061985 -0,00061985 -0,00036278 -0,003809 -0,0023678 -0,003809 -0,0058974 -0,00763667 -0,01142005 -0,01701644 -0,02523489 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371845812 -0,0783737 -0,11126082 -0,11126082 -0,25057156 -0,276071 -0,35298624 -0,4382652 -0,52593355 -0,620071424 -0,4382652 -0,57573445 -0,39316033 -0,68463669 -0,63462221 0,88918202 1,0576287 2,30063138 1,41946456 4,53122602 0,0000000000000000000000000000000000	0 0 0 0 1 1 1 2 3 4 6 9 14 21 32 47 71 106 150 239 359 808 1212 1818 2727 1818 2727 1818 2727 1818 2729 1815 539 808 1212 1818 2727 1816 1826 2777 1818 2777 1818 2777 1818 2777 1818 2777 1818 2777 1816 2777 1818 2777 1816 2777 1818 2777 1816 2777 2778 2777 2778	0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cup	$\begin{array}{c} -0,\\ -0,\\ -0,\\ -0,\\ -0,\\ -0,\\ -0,\\ -0,\\$	0005 0008 0014 0022 0033 0051 0078 0118 0258 0403 0603 0901 1343 1993 2941 4305 6231 1343 2941 4305 6231 1343 2941 4305 6231 1343 2376 6757 1828 8878 2376 6757 1828 575 1828 535 1347 3341 1557 5574 1557 5774 16551 15585 53778 1462 2378 1462 15585 15577 15577 1557 155	100 100 100 100 100 100 100 100 100 100	-0,000274321 -0,000476856 -0,001780538 -0,00243457 -0,00243457 -0,00243457 -0,002478507 -0,002478507 -0,002478507 -0,015375609 -0,015375609 -0,023075817 -0,045637085 -0,05615041073 -0,164848463 -0,164852796 -0,58650546 -0,58650546 -0,58650546 -1,546637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -0,55470421 -0,5421718 -0,54221718 -0,54221719 -1,392591841	0 0 0 1 1 2 4 6 8 12 19 28 42 63 95 142 213 319 718 1077 1616 2424 3636 5454 8181 12272 18408 27612	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Сир
-0,0007 -0,0011 -0,0017 -0,0026 -0,0039 -0,0089 -0,0133 -0,0199 -0,0297 -0,0440 -0,0649 -0,0440 -0,0649 -0,0440 -0,0548 -0,1942 -0,2699 -0,3658 -0,4817 -0,5161 -0,7649 -0,9180 -1,0485 -1,1031 -1,0049 -0,6862 -0,1477 0,5048 1,1077 1,5520 1,8461 2,0533 2,2704 2,4779 2,6731	100 100 100 100 100 100 100 100 100 100	-0,00024049 -0,00039228 -0,00061985 -0,00061985 -0,00036278 -0,003809 -0,0023678 -0,003809 -0,0058974 -0,00763667 -0,01142005 -0,01701644 -0,02523489 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371849 -0,0371845812 -0,0783737 -0,11126082 -0,11126082 -0,25057156 -0,276071 -0,35298624 -0,4382652 -0,52593355 -0,620071424 -0,4382652 -0,57573445 -0,39316033 -0,68463669 -0,63462221 0,88918202 1,0576287 2,30063138 1,41946456 4,53122602 0,0000000000000000000000000000000000	0 0 0 0 1 1 1 2 3 4 6 9 14 21 32 47 71 106 150 239 359 808 1212 1818 2727 1818 2727 1818 2727 1818 2729 1815 539 808 1212 1818 2727 1816 1826 2777 1818 2777 1818 2777 1818 2777 1818 2777 1818 2777 1816 2777 1818 2777 1816 2777 1818 2777 1816 2777 2778 2777 2778	0 0 0 0 0 0 0 0 0 0 0 0 0 0	Сир	$\begin{array}{c} -0,\\ -0,\\ -0,\\ -0,\\ -0,\\ -0,\\ -0,\\ -0,\\$	0005 0008 0014 0022 0033 0051 0078 0118 0258 0403 0603 0901 1343 1993 2941 4305 6231 1343 2941 4305 6231 1343 2941 4305 6231 1343 2376 6757 1828 8878 2376 6757 1828 575 1828 535 1347 3341 1557 5574 1557 5774 16551 15585 53778 1462 2378 1462 15585 15577 15577 1557 155	100 100 100 100 100 100 100 100 100 100	-0,000274321 -0,000476856 -0,001780538 -0,00243457 -0,00243457 -0,00243457 -0,002478507 -0,002478507 -0,002478507 -0,015375609 -0,015375609 -0,023075817 -0,045637085 -0,05615041073 -0,164848463 -0,164852796 -0,58650546 -0,58650546 -0,58650546 -1,546637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -1,54637085 -0,55470421 -0,5421718 -0,54221718 -0,54221719 -1,392591841	0 0 0 1 1 2 4 6 8 12 19 28 42 63 95 142 213 319 718 1077 1616 2424 3636 5454 8181 12272 18408 27612	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Сир

Displ [mm]	1/2 Width	wist [degrees	Time [sec.]	Time [h.]	D=0,0001	Displ [mm]	1/2 Width	wist [degree	Time [sec.]	Time [h.]	D=0,00001
-0,0001	100	-7,1751E-05	0	0		-0,0001	100	-7,1751E-05	0	0	
-0,0002	100	-0,00013928	0	0		-0,0002	100	-0,00013928	0	0	
-0,0005	100	-0,00027433	0	0		-0,0005	100	-0,00027433	0	0	
-0,0008	100	-0,0004769	0	0		-0,0008	100	-0,0004769	0	0	
-0,0014	100	-0,00078072	0	0		-0,0014	100	-0,00078072	0	0	
-0,0022	100	-0,00123639	0	0		-0,0022	100	-0,00123641	0	0	
-0,0034	100	-0,00191976	0	0		-0,0034	100	-0,0019198	0	0	
-0,0051	100	-0,0029445	1	0		-0,0051	100	-0,00294461	1	0	
-0,0078	100	-0,00448094	1	0		-0,0078	100	-0,00448118	1	0	
-0,0118	100	-0,00678405	2	0		-0,0118	100	-0,00678457	2	0	
-0,0179	100	-0,0102352	2	0		-0,0179	100	-0,01023646	2	0	
-0,0269	100	-0,01540414	4	0		-0,0269	100	-0,01540701	4	0	
-0,0404	100	-0,02313999	6	0		-0,0404	100	-0,02314641	6	0	
-0,0606	100	-0,03470434	8	0		-0,0605	100	-0,03471883	8	0	
-0,0907	100	-0,05196285	12	0		-0,0907	100	-0,05199528	12	0	
-0,1355	100	-0,07765407	19	0		-0,1357	100	-0,07772626	19	0	
-0,2020	100	-0,11575451	28	0	Сир	-0,2023	100	-0,11591493	28	0	Cup
-0,3001	100	-0,17193953	42	0		-0,3007	100	-0,17229362	42	0	
-0,4435	100	-0,25410569	63	0		-0,4448	100	-0,25487802	63	0	
-0,6507	100	-0,37279202	95	0		-0,6536	100	-0,37445238	95	0	
-0,9445	100	-0,54114484	142	0		-0,9506	100	-0,54464358	142	0	
-1,3505	100	-0,77370955	213	0		-1,3630	100	-0,78088739	213	0	
-1,8903	100	-1,08292742	319	0		-1,9151	100	-1,09712018	319	0	
-2,5699	100	-1,47214312	479	0		-2,6169	100	-1,49901395	479	0	
-3,3617	100	-1,9253757	718	0		-3,4463	100	-1,97378038	718	0	
-4,1875	100	-2,39783126	1077	0		-4,3322	100	-2,48061095	1077	0	
-4,9201	100	-2,81674397	1616	0		-5,1560	100	-2,95155674	1616	0	
-5,4197	100	-3,10219577	2424	1		-5,7881	100	-3,31266381	2424	1	
-5,5939	100	-3,20174323	3636	1		-6,1494	100	-3,51892123	3636	1	
-5,4349	100	-3,11089058	5454	2		-6,2461	100	-3,57407999	5454	2	
-4,9918	100	-2,85769009	8181	2		-6,1383	100	-3,51259673	8181	2	
-4,3150	100	-2,47075158	12272	3		-5,8756	100	-3,36262768	12272	3	
-3,4335	100	-1,96644946	18408	5		-5,4620	100	-3,12639463	18408	5	
-2,3758	100	-1,3609542	27612	8		-4,8664	100	-2,78605534	27612	8	
-1,2002	100	-0,68760801	41418	12		-4,0515	100	-2,32004674	41418	12	
-0,0047	100	-0,00269492	62127	17		-3,0060	100	-1,7217812	62127	17	
0,9232	100	0,528941901	86400	24		-1,9937	100	-1,14217755	86400	24	