



Step by Step guide for the Cristalens Toric calculator



FRENCH INTRAOCULAR LENS MANUFACTURER

CATARACT & REFRACTIVE SURGERY

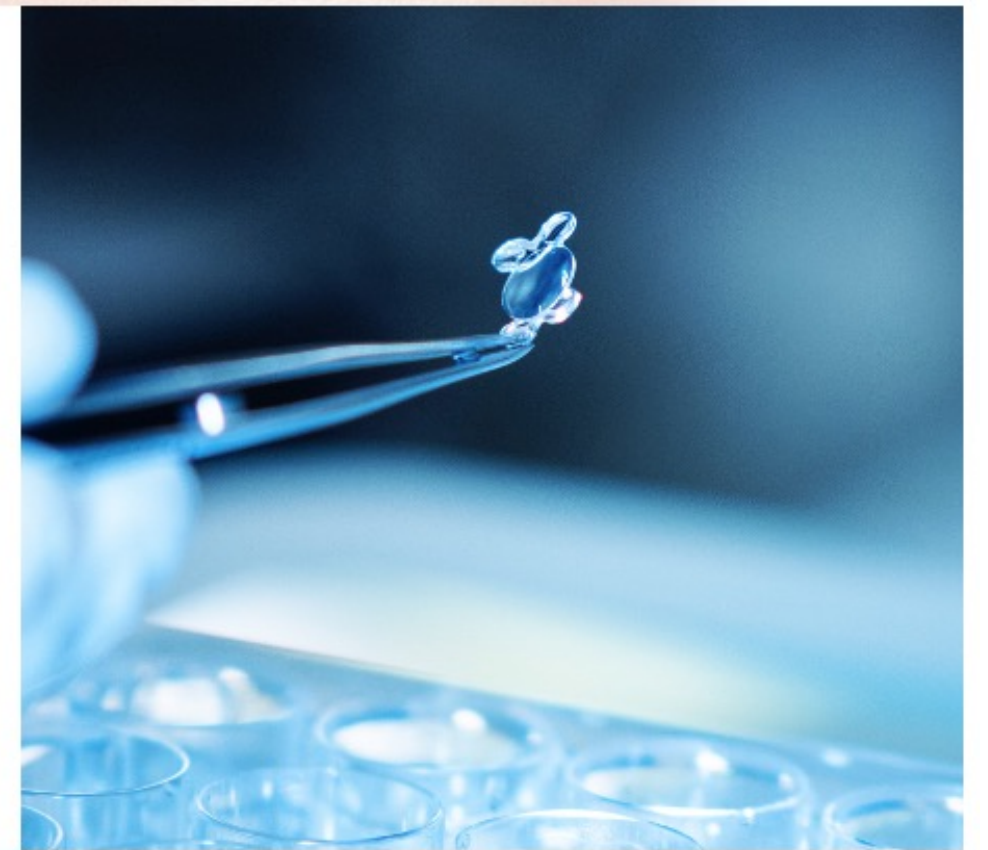
Go to our Website
www.cristalens-international.com
Then, click here to login. If you do not have an account, please follow our website guide to register



ARTIS SYMBIOSE

The hydrophobic multifocal lenses
100% Cristalens

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Step 2

CRISTALENS THE GROUP ABOUT US PRODUCTS CRISTABOX CAREER CONTACT

Discover all the Cristalens' group certifications available for download. **LEARN MORE**

Find out about our latest news and events. **You can click here to access our calculator**

Get a quick look at who we are in video. **WATCH**



TORIC CALCULATOR >

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Or by clicking on this button which is available at the bottom of each page

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ARTIS SYMBIOSE® TORIC

TORIC MULTIFOCAL HYDROPHOBIC LENSES



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[@ ONLINE CALCULATOR](#)

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You can also found the link to the calculator on the product page.

Step 3

TORIC CALCULATOR

Welcome to the Cristalens toric intraocular lenses calculator

This calculator helps you to select the best cylindrical power for an optimized correction of your astigmatic patients. It was designed for Cristalens toric lenses, and can be used only with the models ARTIS® T PL E and ARTIS SYMBIOSE®.

Important:

By choosing « Select an IOL » on this screen, you are agreeing the calculator conditions of use described below. You can decline these terms of use by closing the calculator.

Conditions of use:

The Cristalens toric calculator is exclusively intended for helping the user to determine the recommended Cristalens toric intraocular lens and the suggested axis of placement. The use of the present calculator is strictly reserved to healthcare professionals specialized in ophthalmology. Calculated values and informations are provided as a guideline only, and cannot be warranted. In no event will Cristalens be liable for any damages whatsoever arising out of the use of the calculator. The present calculator is owned by Cristalens, consequently the user may not copy, distribute or modify the calculator without Cristalens prior written authorization.

Warning about posterior corneal astigmatism

During the calculation, you have now selected the option "Posterior corneal astigmatism" (option enabled by default). The calculation of the toric IOL is based on the method described in the study reported by Ueno et al.^[1] Click on the button "Disable" to deactivate this option. Be careful: you must disable this option if your measuring device already takes into account posterior corneal astigmatism. The option "TK" or "TK" function (in this case K1 and K2 are named TK1 and TK2) is already enabled by default in the calculator, and if your measuring device also takes into account posterior corneal astigmatism, the combination of both corrections can then lead to an over-compensation, and therefore to a non-optimal post-operative result.

on this page, click on « Select an IOL »

Select an IOL



ARTIS® TORIC MONOFOCAL
ARTIS SYMBIOSE®

Step 4

TORIC CALCULATOR

Now, you have to select the kind of implant you want to use

ARTIS T P L E

ARTIS SYMBIOSE



Dioptric powers
(spherical equivalent):
From +10.0 D to +35.0 D by 0.5 D

Cylinder powers:
+ 0.75D / + 1.50D / + 2.25D / + 3.00D
+ 3.75D / + 4.50D / + 5.25D / + 6.00D



Dioptric powers
(spherical equivalent):
From +10.0 D to +35.0 D by 0.5 D

Cylinder powers:
+ 0.75D / + 1.50D / + 2.25D / + 3.00D
+ 3.75D

Addition profiles: MID / PLUS

Then, click on « start calculation »

Start calculation

Step 5

Choose the eye concerned by the calculation

Eye selection

RIGHT EYE (OD) LEFT EYE (OS)

Pre-operative information

IOL spherical power (SEQ) 30.0 D

Keratometry data in

Diopter (D) Millimeter (mm)

Flat axis: K1 46.35 D

Steep axis: K2 48.19 D @ 19 °

Pre-operative astigmatism: 1.84 D x 19 °

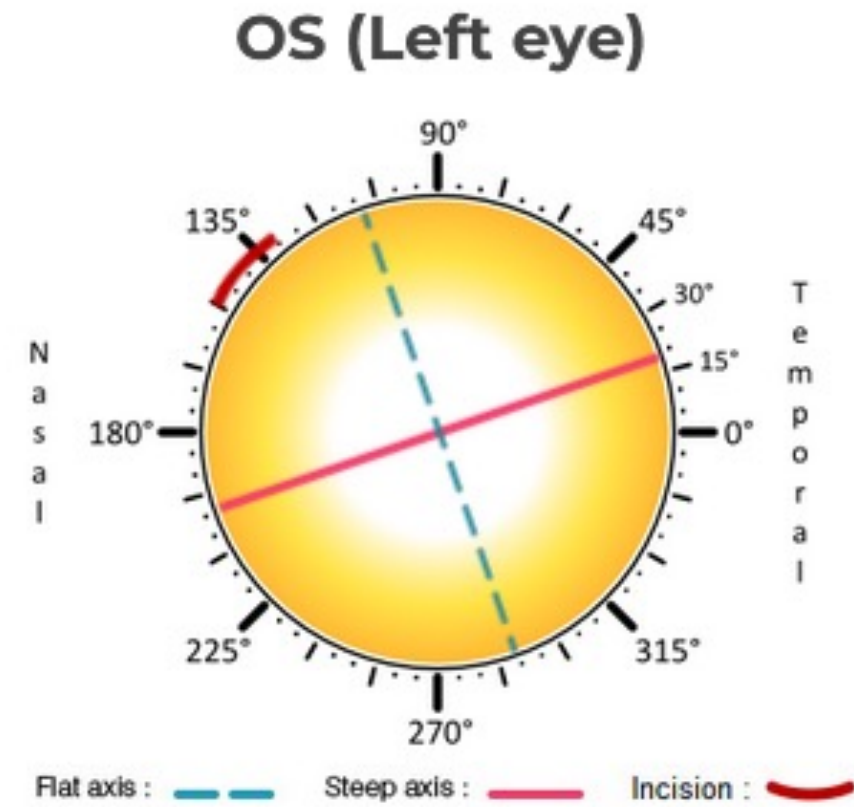
Incision location: 140 °

Surgically induced astigmatism: - 0.20 D

Total cylinder (at corneal plane): 1.94 D x 22 °

Include posterior corneal astigmatism

(disable this option if the device you use for keratometry measurements already takes into account posterior corneal astigmatism, for example with the "Total Keratometry" or "TK" function)



Step 6

Choose the spherical power of the IOL :

It is calculated in the same way as for a non-toric implant: according to the pre-operative biometry, the A-content of the implant, and the desired post-operative refraction

Eye selection

RIGHT EYE (OD) LEFT EYE (OS)

Pre-operative information

IOL spherical power (SEQ) D

Keratometry data in

Diopter (D) Millimeter (mm)

Flat axis: K1 D

Steep axis: K2 D @ °

Pre-operative astigmatism: D x °

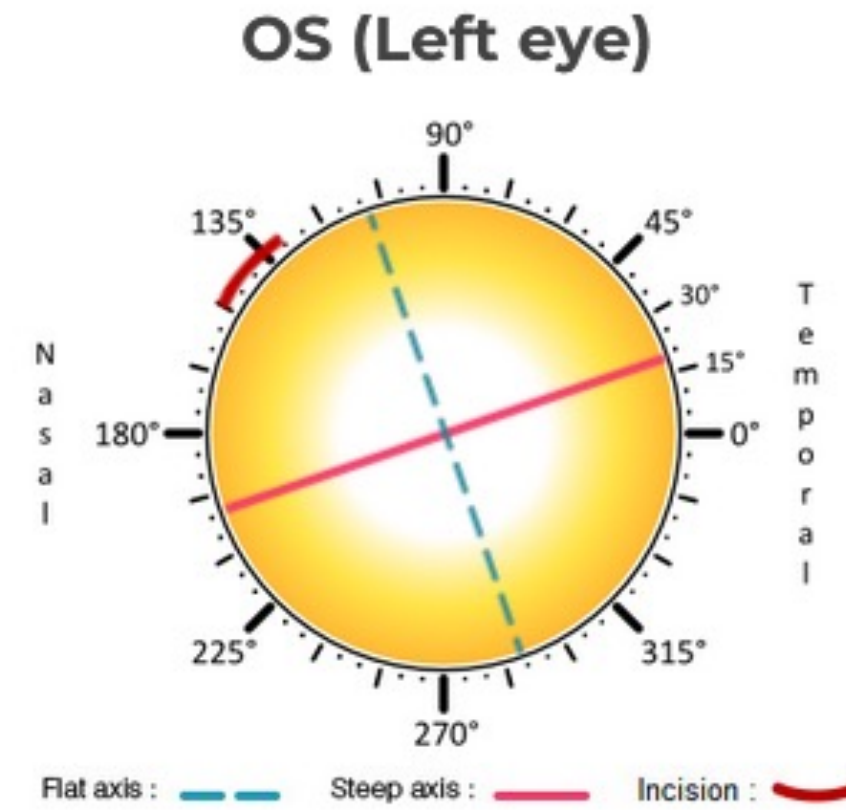
Incision location: °

Surgically induced astigmatism: - D

Total cylinder (at corneal plane): D x °

Include posterior corneal astigmatism

(disable this option if the device you use for keratometry measurements already takes into account posterior corneal astigmatism, for example with the "Total Keratometry" or "TK" function)



Step 7

Eye selection

RIGHT EYE (OD) LEFT EYE (OS)

Pre-operative information

IOL spherical power (SEQ) 30.0 D

Keratometry data in

Diopter (D) Millimeter (mm)

Flat axis: K1 46.35 D

Steep axis: K2 48.19 D @ 19 °

Pre-operative astigmatism: 1.84 D x 19 °

Incision location: 140 °

Surgically induced astigmatism: - 0.20 D

Total cylinder (at corneal plane): 1.94 D x 22 °

Include posterior corneal astigmatism

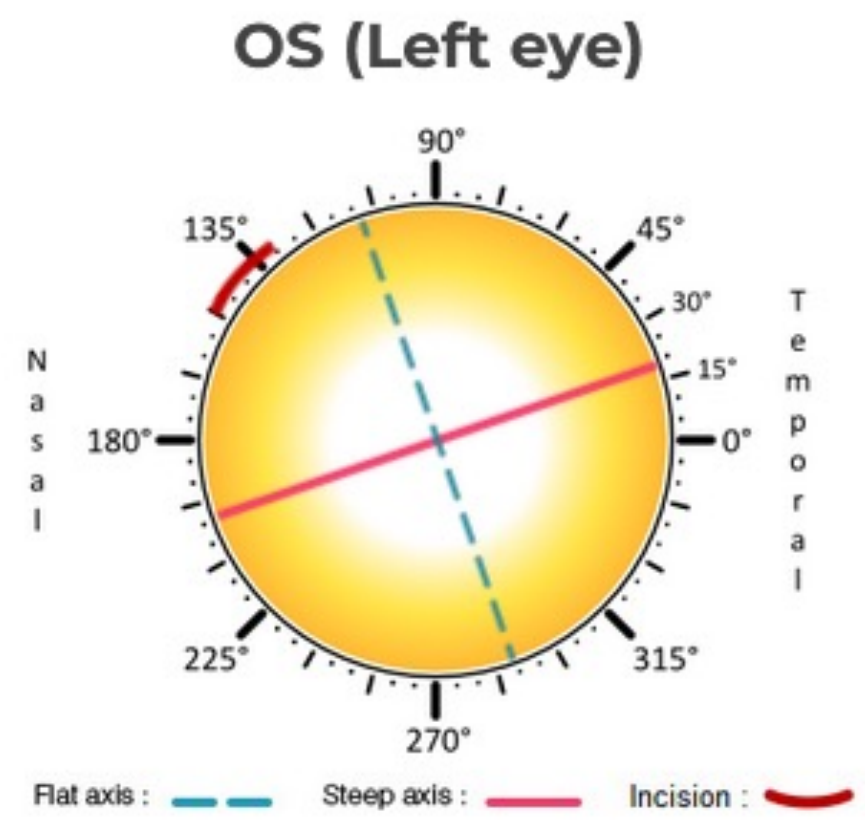
(disable this option if the device you use for keratometry measurements already takes into account posterior corneal astigmatism, for example with the "Total Keratometry" or "TK" function)

Choose whether you wish to enter your keratometric data in diopters (D) or millimetres (mm)

Enter the power (in D) or radius of curvature (in mm) of the K1 flat meridian of the cornea

Enter the power (in D) or radius of curvature (in mm) of the K2 steep meridian of the cornea

Enter the orientation (in degrees) of the K2 steep meridian of the cornea



Step 8

Eye selection

RIGHT EYE (OD) LEFT EYE (OS)

Pre-operative information

IOL spherical power (SEQ) D

Keratometry data in

Diopter (D) Millimeter (mm)

Flat axis: K1 D

Steep axis: K2 D @ °

Pre-operative astigmatism: x

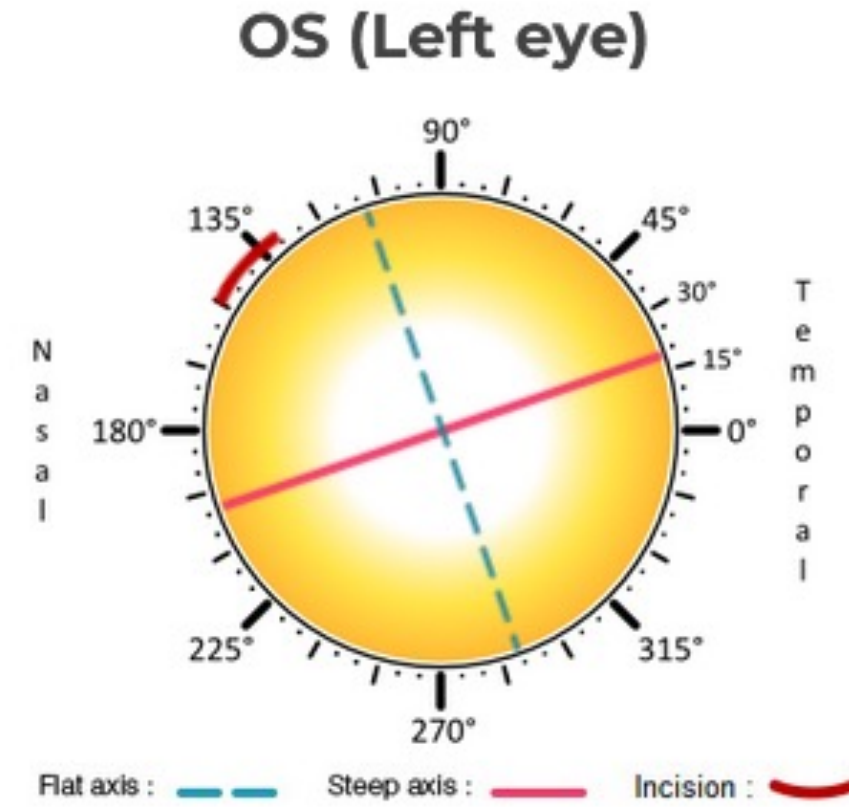
Incision location: °

Surgically induced astigmatism: - D

Total cylinder (at corneal plane): x

Include posterior corneal astigmatism

(disable this option if the device you use for keratometry measurements already takes into account posterior corneal astigmatism, for example with the "Total Keratometry" or "TK" function)



Enter the position of the incision (in degrees) and the value of the induced astigmatism (in D)

Step 9

Eye selection

RIGHT EYE (OD) LEFT EYE (OS)

Pre-operative information

IOL spherical power (SEQ) D

Keratometry data in

Diopter (D) Millimeter (mm)

Flat axis: K1 D

Steep axis: K2 D @ °

Pre-operative astigmatism: D x °

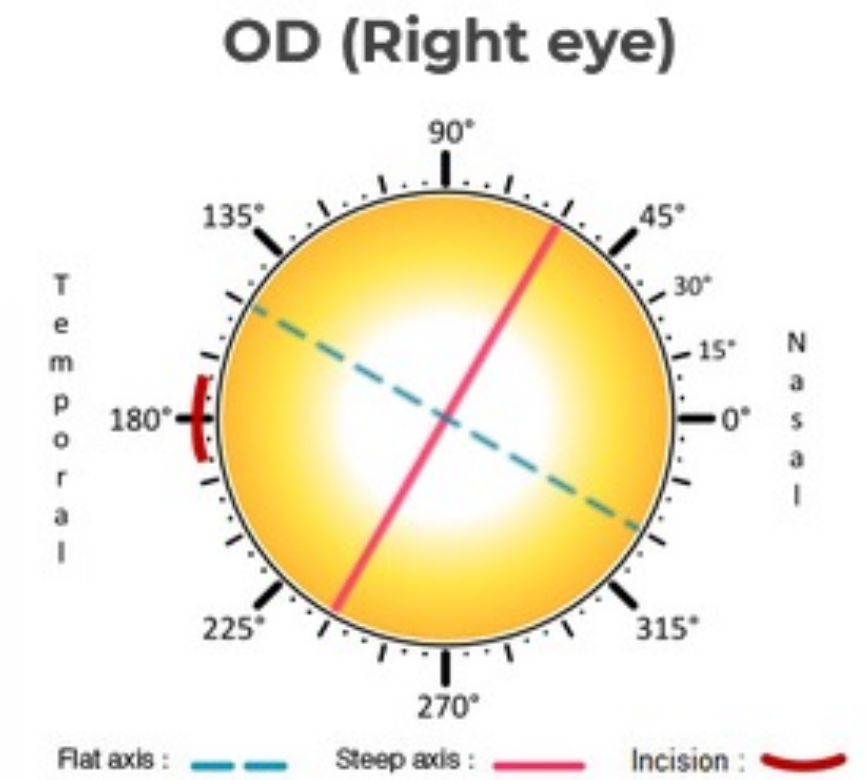
Incision location: °

Surgically induced astigmatism: - D

Total cylinder (at corneal plane): D x °

Include posterior corneal astigmatism

(disable this option if the device you use for keratometry measurements already takes into account posterior corneal astigmatism, for example with the "Total Keratometry" or "TK" function)



After entering your data, click here to start the calculation

Calculation

Print

New calculation

Step 10

Eye selection

RIGHT EYE (OD) LEFT EYE (OS)

Pre-operative information

IOL spherical power (SEQ) D

Keratometry data in Diopter (D)

Flat axis:

Steep axis: K2 D @ °

Pre-operative astigmatism: D x °

Incision location: °

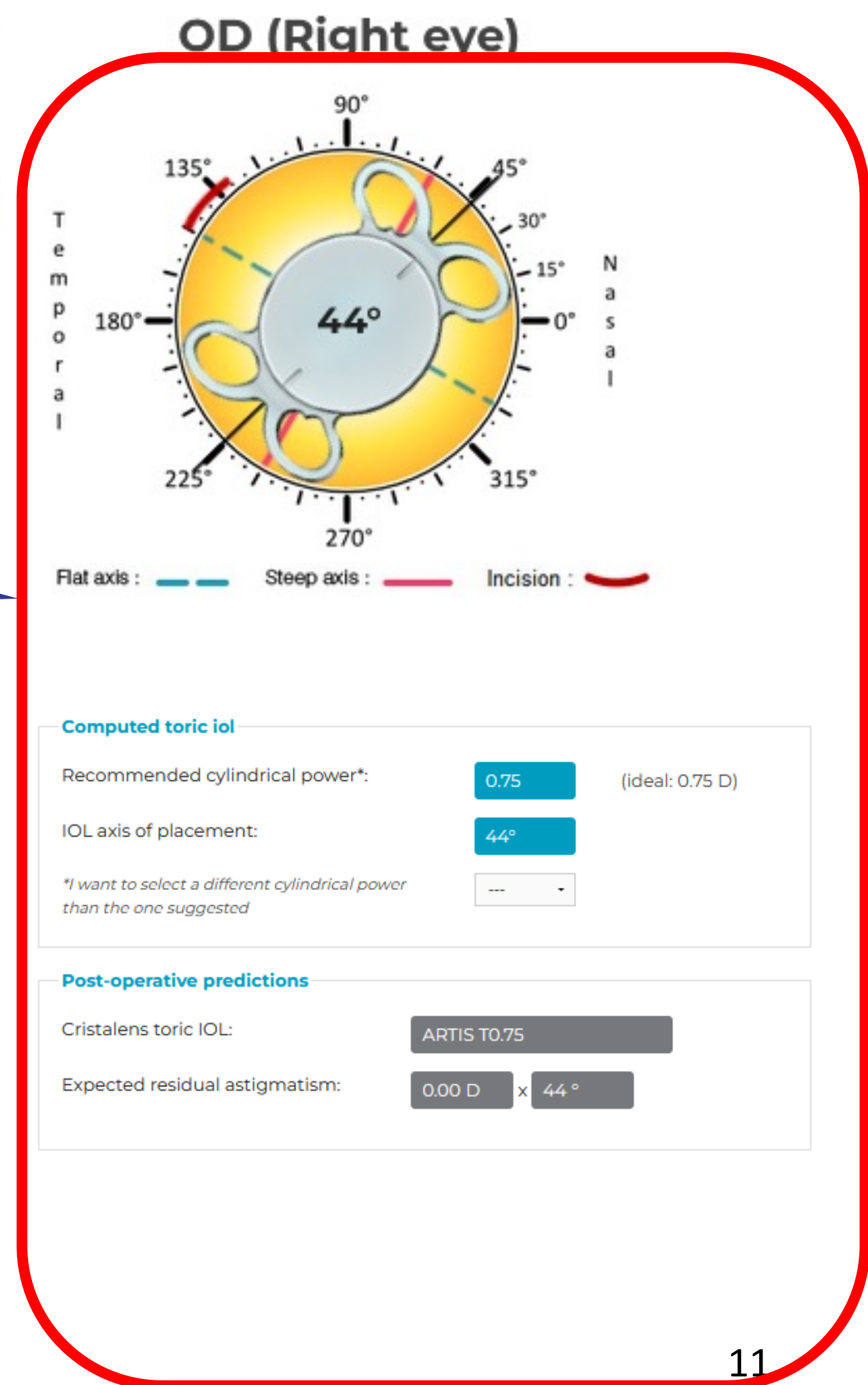
Surgically induced astigmatism: - D

Total cylinder (at corneal plane): D x °

Include posterior corneal astigmatism

(disable this option if the device you use for keratometry measurements already takes into account posterior corneal astigmatism, for example with the "Total Keratometry" or "TK" function)

Here are the results of your calculations



Step 11

Eye selection

RIGHT EYE (OD) LEFT EYE (OS)

Pre-operative information

IOL spherical power (SEQ) 30.0 D

Keratometry data in

Diopter (D) Millimeter (mm)

Flat axis: K1 39.00 D

Steep axis: K2 39.40 D @ 60 °

Pre-operative astigmatism: 0.40 D x 60 °

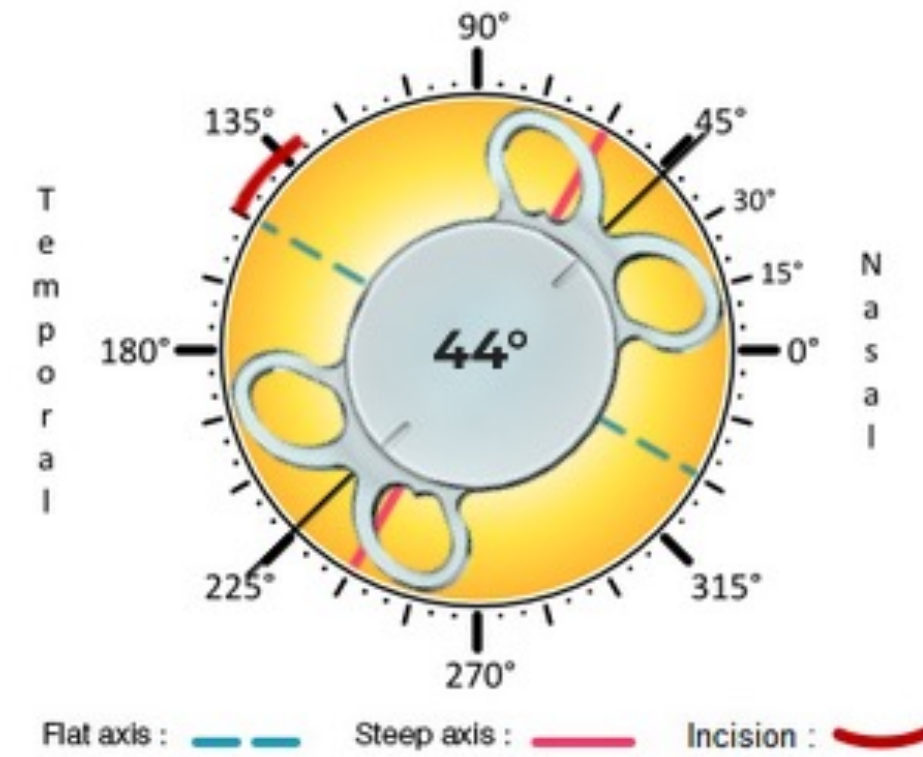
Incision location: 180 °

Residual astigmatism: - 0.00 D

Post-operative astigmatism: 0.38 D x 33 °

... you use for keratometry measurements already takes into account ... for example with the "Total Keratometry" or "TK" function)

OD (Right eye)



Computed toric iol

Recommended cylindrical power*: 0.75 (ideal: 0.75 D)

IOL axis of placement: 44°

**I want to select a different cylindrical power than the one suggested*

Post-operative predictions

Cristalens toric IOL: ARTIS T0.75

Expected residual astigmatism: 0.00 D x 44 °

If you do not wish to modify your data and if the recommended implant suits you, click here to print your results (or save them in .PDF format) and then place your order

Calculation **Print** New calculation

End of Guide

