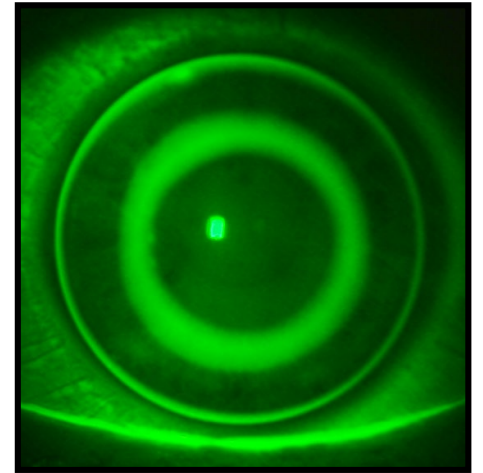


# MOONLENS™

BY KATT DESIGN GROUP



**ART**Optical  
contact lens, inc.

**There are two ways to collect the required topography data for calculating a Moonlens:**

**The “Analysis/Details” method does not require changes to your software settings, however, it does involve a few steps to collect all the Moonlens information you need.**

**The “Attribute” method requires a few minutes upfront to import and select specific Moonlens appropriate settings but makes fitting more efficient over the long term. Depending on the version of your Medmont software, you may need to ask a fitting consultant to forward these attributes if they are not readily available.**

**Both options are equally accurate in determining the initial Moonlens specifications and will be explained next.**

**In both methods, start by selecting the desired map(s) and follow the instructions provided.**

# Analysis / Details Method

**1** → Analysis

**2** → Details

The screenshot shows the Moonlens software interface. The top menu bar includes File, Home, Configure, Analysis, Reports, Display, and Annotate. The Analysis tab is selected, and the Details sub-tab is active. The interface displays patient data, analysis results, and a heatmap visualization.

**Patients**

Patient	Date/Time	Analysis
S, R	3-Feb-2020 10:28:58 AM	Right; Baseline
S, R	3-Feb-2020 10:29:07 AM	Right
S, R	3-Feb-2020 10:29:20 AM	Right
S, R	3-Feb-2020 10:29:31 AM	Right

**Analysis Results**

Value
43.73
43.05
42.37
41.69
41.02
40.34

**Heatmap Visualization**

The heatmap shows a color-coded distribution of values, with a color scale ranging from 40.34 (yellow) to 43.73 (red). The heatmap is overlaid on a fundus image, showing a curved line of interest.

# Flat Meridian Data

The screenshot shows the Moonlens software interface with the 'Analysis Details' window open. The window contains a meridian plot at the top, a control panel with sliders and buttons, and a data table at the bottom. Four blue callout boxes with arrows point to specific elements:

- 1: Set Chord Diameter of 8mm** points to the 'Chord (mm)' slider set to 8.00.
- 2: Click "Flat"** points to the 'Flat' button in the meridian control panel.
- 3: Record the Apical Curvature** points to the 'Apical Curvature' column in the data table.
- 4: Record Eccentricity** points to the 'e (Eccentricity)' column in the data table.

The 'Analysis Details' window includes the following controls and data:

**Meridian (degrees):** 14.4 (with a slider from 0 to 360). Buttons: **Flat** (blue), **Steep** (red).

**Chord (mm):** 8.00 (with a slider from 0 to 16).

**Apical/Chord:** ☒ mm, ☐ D

Exam	Apical Curvature	Weighted Average	$e^2$ Values	e (Eccentricity)	Axial Curvature	Tangential Curvature	Height	S
3-Feb-2020 11:32:56 AM	7.809	1078.1	0.43	0.66	8.10	8.98	1083.69	2
$\mu$ (mean)	7.809	1078.1	0.43	0.66	8.10	8.98	1083.69	2
$\sigma$ (standard deviation)	undefined	undefined	undefined	undefined	undefined	undefined	undefined	u

\* Multiple maps may be selected then the mean can be recorded

# Steep Meridian Data

**1: Ensure Chord Diameter of 8mm**

**2: Click "Steep"**

**3: Record Apical Curvature**

**4: Record Eccentricity**

Analysis Details


104.4 Meridian (degrees) Flat Steep

8.00 Chord (mm)

Apical/mm  
☒ mm  
☐ D

Exam	Apical Curvature	Weighted Avera	$\angle$	$e^2$ Values	e (Eccentricity)	Axial Curvatur	Tangential Cu	Height	S
► 3-Feb-2020 11:32:56 AM	7.782	1093.9		0.39	0.63	8.31	9.42	1079.20	2
$\mu$ (mean)	7.782	1093.9		0.39	0.63	8.31	9.42	1079.20	2
$\sigma$ (standard deviation)	undefined	undefined		undefined	undefined	undefined	undefined	undefined	u

# Enter the Refractive and Topographical Data in the Moonlens Calculator



## MOONLENS Flex Calculator

	OD	OS
Diameter	<input type="text" value="10.6"/>	<input type="text" value="10.6"/>
OZ	<input type="text" value="5.5"/>	<input type="text" value="5.5"/>
Rx	<input type="text" value="-4.00"/>	<input type="text" value="-4.00"/>
Flat Ro / Flat K	<input type="text" value="7.81"/>	<input type="text" value="7.81"/>
Flat Eccentricity	<input type="text" value="0.660"/>	<input type="text" value="0.660"/>
Steep Ro / Steep K	<input type="text" value="7.66"/>	<input type="text" value="7.78"/>
Steep Eccentricity	<input type="text" value="0.500"/>	<input type="text" value="0.630"/>

### Optic Zone Selection

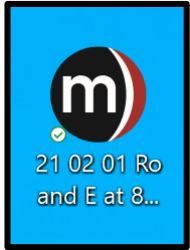
Rx	Child/Youth	Adult
$\leq -3.75$	5.5	6.0
-4.00 to -5.75	5.5	5.5
$\geq -6.00$	5.0	5.0

Missing Data

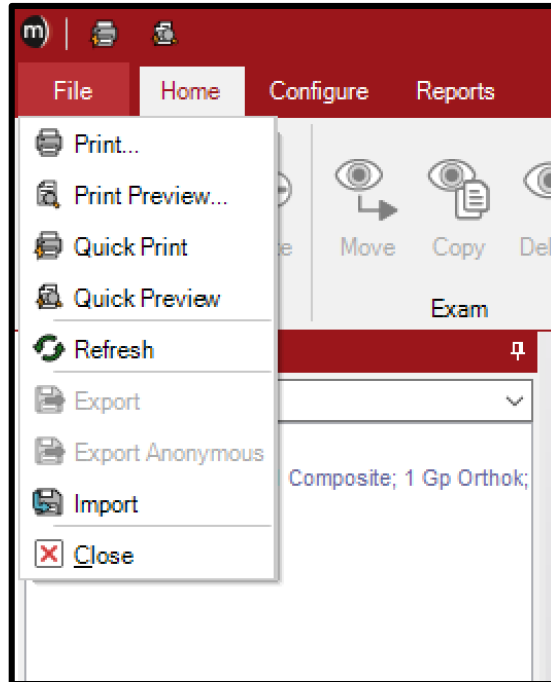
# Attribute Method

**The following pages describe the steps for setting up the attributes in the Medmont software to improve Moonlens data collection efficiency. This procedure is only required once and will be saved as your new default settings in the Medmont software.**

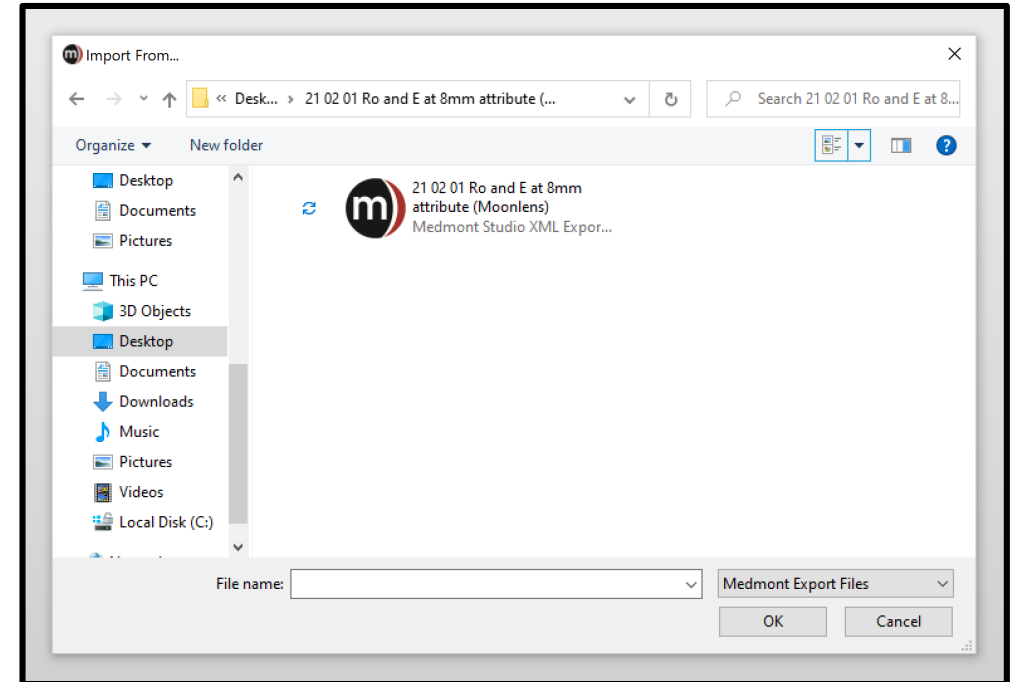
# Import the Moonlens Attribute



**1: Acquire the “Ro and E @ 8mm” attribute file from your Moonlens or Medmont distributor**



**2: From the Medmont Studio software, select “File” and “Import”**



**3: Browse to find the “Ro and E at 8mm attribute” Then select to import to the Medmont Studio software**

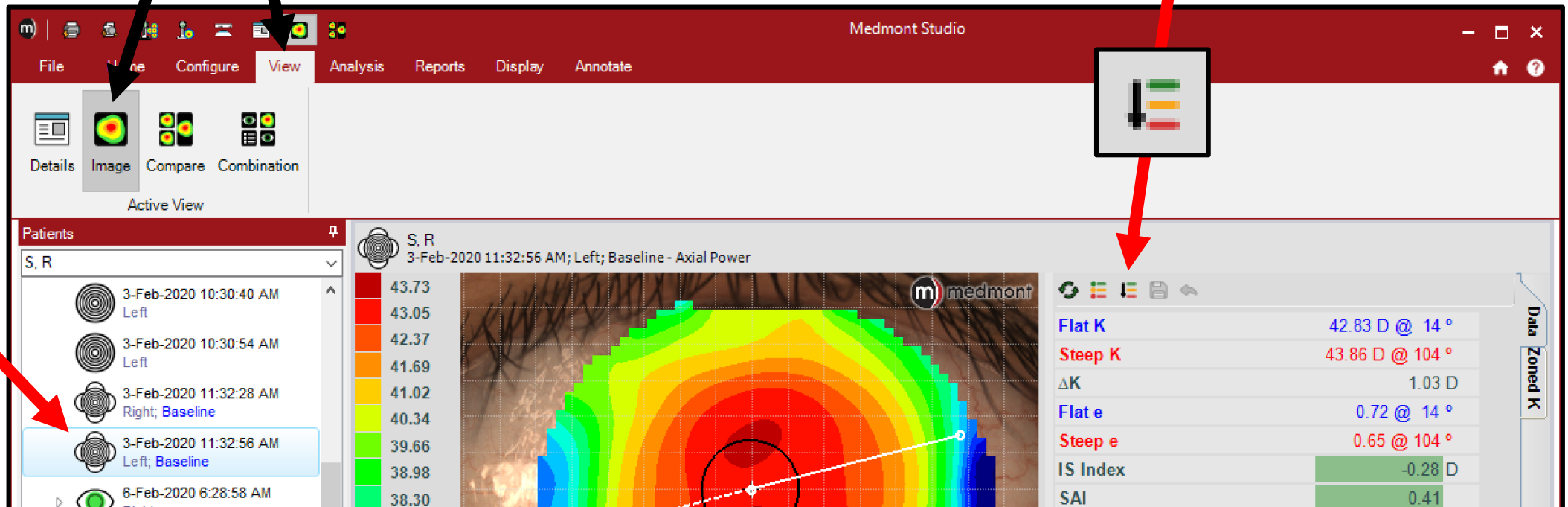


# Preparing to Arrange

**2: Select the  
“View” tab then  
“Image” button**

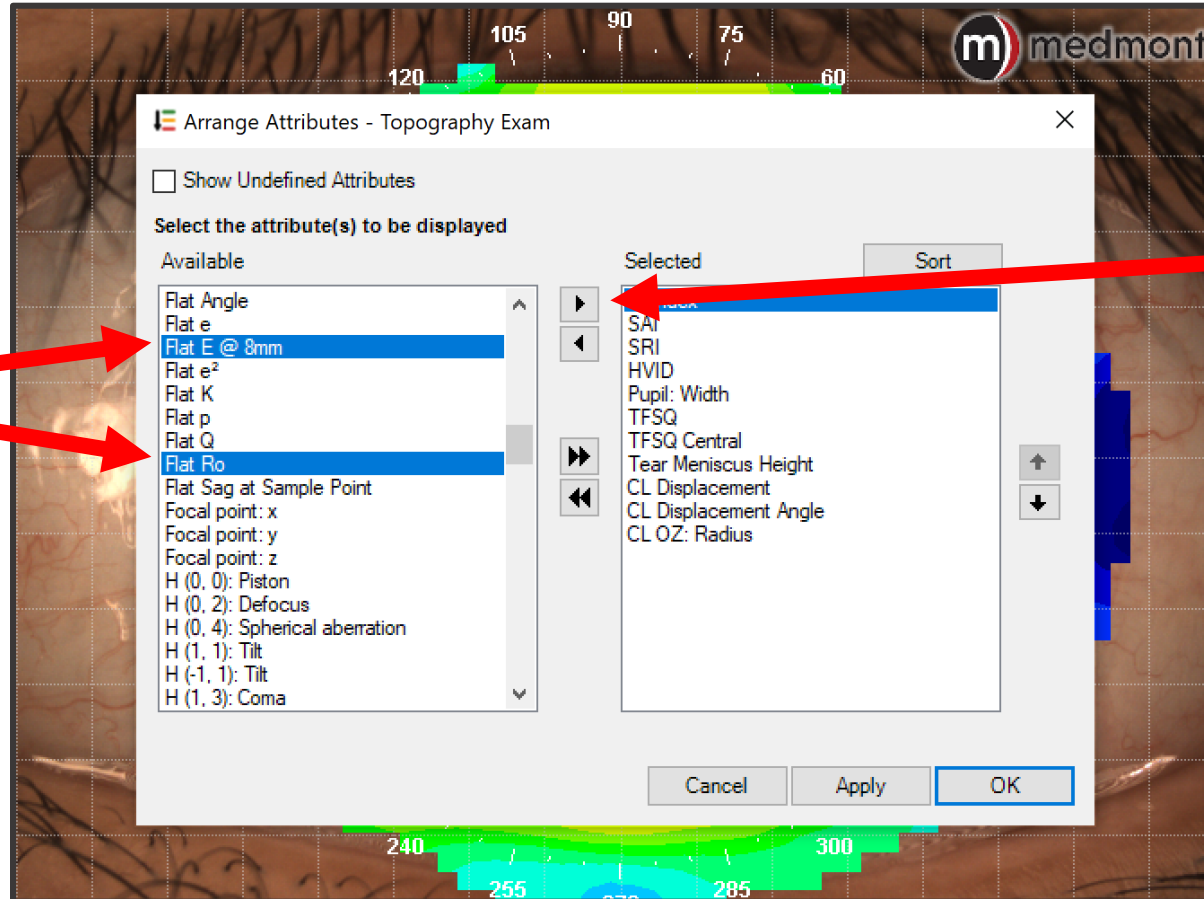
**3: Select the  
“Arrange”  
icon**

**1: Select a  
map**



# Select “Flat Ro” and “Flat E @ 8mm”

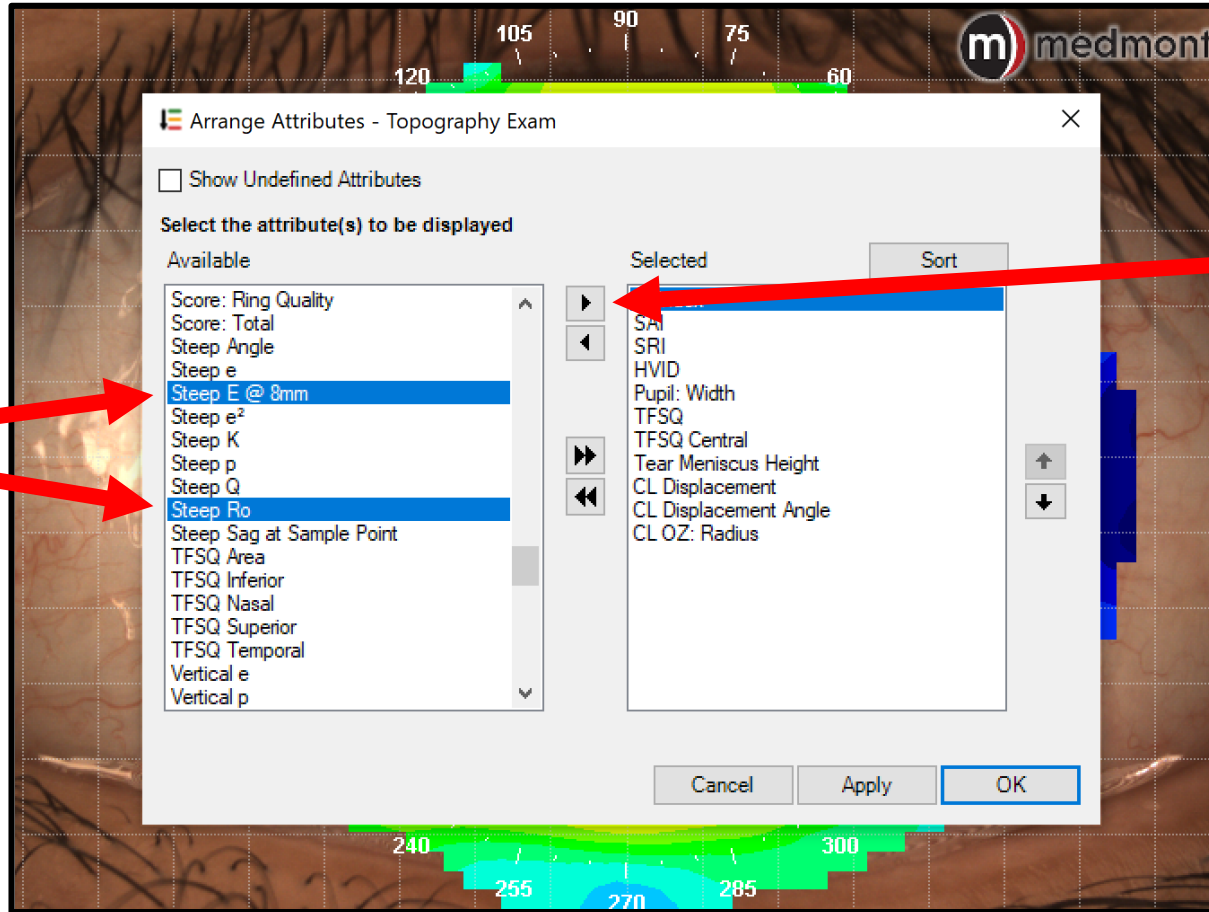
**1:**  
**Highlight**  
**“Flat E @**  
**8mm” &**  
**“Flat Ro”**



**2:**  
**Click the**  
**right arrow**  
**to move the**  
**attributes**  
**to the**  
**“Selected”**  
**window**

# Select “Steep Ro” and “Steep E @ 8mm”

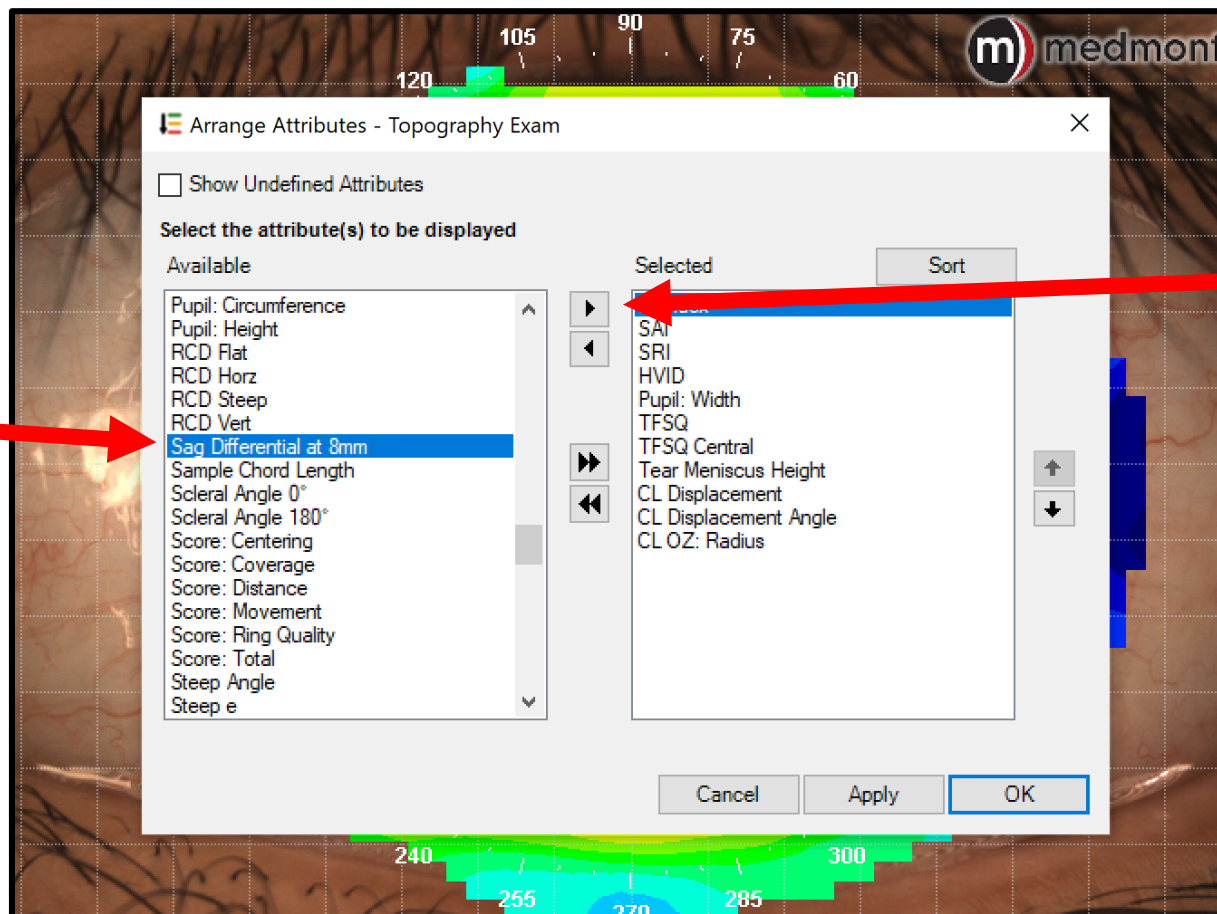
**1:**  
**Highlight:**  
**“Steep E @ 8mm” &**  
**“Steep Ro”**



**2:**  
**Click the**  
**right arrow**  
**to move the**  
**attributes**  
**to the**  
**“Selected”**  
**window**

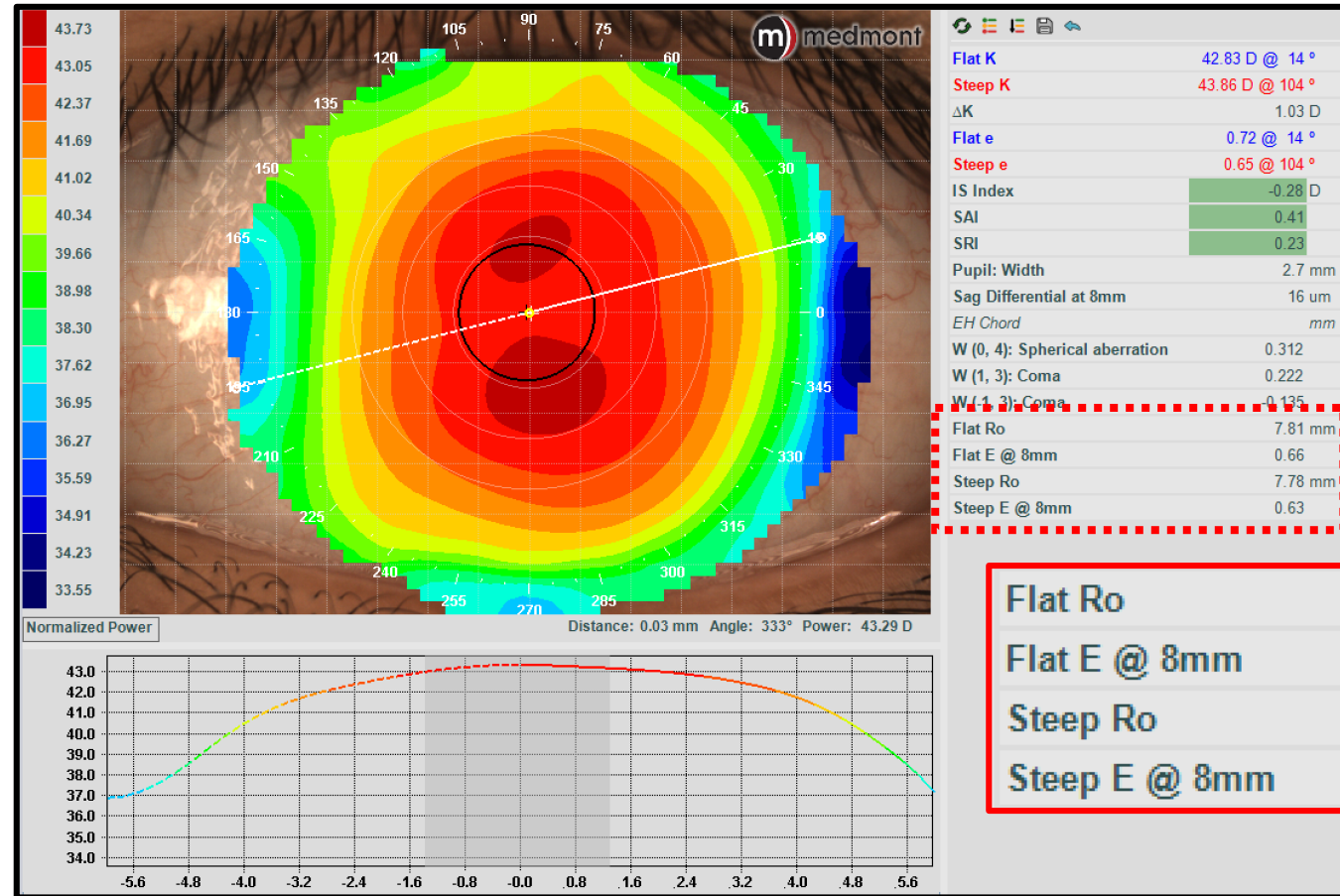
# Select the Sag Differential

**1:**  
**Highlight**  
**“Sag**  
**Differential”**



**2:**  
**Click the**  
**right arrow**  
**to move the**  
**attribute to**  
**the**  
**“Selected”**  
**window**

# Moonlens Flat and Steep Meridian Ro and E Attributes



**The attributes are prominently displayed and easily accessible for efficient Moonlens Calculator input**

Flat Ro	7.81 mm
Flat E @ 8mm	0.66
Steep Ro	7.78 mm
Steep E @ 8mm	0.63