

LENSTAR LS 900 Calibration

Weekly nullification ----- SUCCESSFUL

Keratometry

Ocular surface (improvement necessary?) ----- NORMAL

K₁ & K₂ SD (maximum value, each eye) ----- ± 0.25 D

Avg K power difference (between eyes) ----- < 1.25 D

Avg K power (each eye) ----- > 40.00 D and < 48.00 D

Steep meridian SD ----- < 3.5°

AST (maximum value, each eye) ----- < 4.00 D

Reflected LED images (all meridians) --- GOOD QUALITY

Soft contact lenses (at least 1 week) ----- OUT

RGP contact lenses (until topography & Rx are stable) --- OUT

T-cone Topography

Calibration ----- SUCCESSFUL

All measurements ----- CORRECTLY CENTERED

Topo maps (AC, T, E & Rings) ----- GOOD QUALITY

K₁, K₂ & A1 (all five measurements) ----- CONSISTENT

Axial Measurements

Measurement mode (phakic, silicone oil, etc.) -- CORRECT

Fixation light (confirm visualization by patient) ----- STEADY

5 consistent measurements ----- CONFIRMED

Caliper placement (cornea, lens & retina) ----- CORRECT

CCT (prior myopic LASIK / PRK?) ----- > 480 μ m and < 620 μ m

Phakic ACD (each eye) ----- > 1.9 mm and < 4.5 mm

Lens thickness (each eye) ----- > 3.0 mm and < 6.2 mm

OD & OS axial length ----- WITHIN 0.30 mm

AL consistent with oldest Rx SphEq ----- CONFIRMED

Outliers (either eye) ----- DELETE & REPEAT

White to White

Limbus ring ----- ADJUST AS REQUIRED

Avg WTW (unusual Ks, ACD or AL?) --- > 10.0 and < 13.0 mm

Avg WTW (each eye) ----- WITHIN 0.1 mm

Avg WTW (between eyes) ----- WITHIN 0.2 mm

Additional Validation / Studies

Phakic ACD > 4.5 mm or < 1.9 mm ---- MD CONFIRMS

OD / OS AL difference > 0.30 mm ---- MD CONFIRMS

OD / OS avg K power > 1.25 D ----- MD CONFIRMS

AST > 4.25 D (KCN or PMD?) -- TOPOGRAPHIC AXIAL MAP

Avg K power > 48.00 D or < 40.00 D --- MD CONFIRMS