

International Intraocular Lens & Implant Registry

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ABSTRACT

This is the third annual update of the International Intraocular Lens & Implant Registry. A total of 1307 intraocular lenses (IOLs) or nonoptical implants from 34 manufacturers are available to surgeons in 2001. *J Cataract Refract Surg* 2001; 27:143-164 © 2001 ASCRS and ESCRS

There are 1307 intraocular implants produced by 34 manufacturers available for use by surgeons as of January 2001. In addition to the standard anterior and posterior chamber lenses used after cataract surgery, there are phakic lenses, occluder lenses, iris lenses, telescopic lenses, and other specialty lenses to accommodate any size eye in almost any situation. In addition to the lenticular implants, there are also nonlenticular implants such as capsular distension rings and spacers.

The surgeon is sometimes unaware of or overwhelmed by the choices. In the past, the only way to determine the most up-to-date properties of lenses (especially the lens constant) was to contact the manufacturer directly and request material describing the characteristics. The registry provides the surgeon with a quick and accurate reference of these constants each year.

The lens constants represent the best value a surgeon can use before he or she has experience with the lens. After the surgeon has used the lens in several cases, he or she can determine a personalized constant that will

take into account his or her unique characteristics; ie, surgical technique, diagnostic equipment (keratometer, ultrasound), and preoperative and postoperative medications. All these factors influence the personalized lens constant.^{1,2} Each surgeon is encouraged to personalize his or her lens constant for every lens to achieve the best accuracy and outcome for patients.

The ideal method of determining the "initial lens constant" would be to have each lens personalized by several surgeons and to report the median value.^{1,2} This would require approximately 30 to 50 cases from 10 to 20 surgeons. The exact number would vary depending on the variability of the data, but a standard error of the mean of less than 0.10 diopter (D) has been proposed to ensure statistical accuracy.³

Once the "clinical lens constant" has been determined, the problem of disseminating the information to the surgeon is logistically difficult. If the company begins to put the new lens constant on the box or in promotional literature, a surgeon may have 2 lens constants for the same model in the inventory. Which lens constant is correct?

The International Intraocular Lens & Implant Registry, which is updated in January of each year, provides the most recent clinical lens constant for each lens. All lens data have been reviewed by the respective manufacturers, and the parameters listed are effective January 2001.

Dr. Holladay is a consultant to intraocular lens manufacturers that use the Holladay IOL Consultant® program or formulas.

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Since the initial publication of the registry in 1999, several clarifications have become necessary. These relate to the relationship among the 3 lens constants shown in Table 1 and the lens constant for implants with no optics, such as capsular bag retention rings and opaque occluder lenses.

The 3 lens constants (A-constant, anterior chamber depth [ACD], surgeon factor [SF]) are the most commonly used constants for intraocular lens (IOL) calculations today. Each represents the position of the lens within the eye with respect to the vertex of the cornea for the "average" patient, with the median lens power (~22.00 D) targeting for the average postoperative target (-0.37 D). The characteristics of the average patient are as follows: keratometry = 43.86 D; axial length = 23.55 mm; horizontal white-to-white = 11.70 mm; anatomic phakic anterior chamber depth = 3.16 mm; phakic lens thickness = 4.72; preoperative refraction = -0.60 D; and age = 72 years.³ The ACD and SF are in millimeters so the distance can be seen directly. The A-constant, however, is in diopters but converts to the nominal position of the lens in the average eye. Although the position of the lens cannot be directly visualized from the A-constant, it can be converted to an equivalent depth in millimeters.

Although there are differences in the current third-generation IOL calculation formulas (Holladay 1, SRK/T, Hoffer Q, and Holladay 2), the differences are not clinically significant until the eye becomes "unusual." For the average eye and the average target, all the formulas must yield the same result for the average IOL power or a large prediction error will result. To determine the conversion relationship for the 3 constants, a large database from many surgeons using different lenses is required to determine the best value for the lens constant for each lens. Once this has been determined for each lens and formula, a linear regression can be calculated to determine the conversion relationship for the 3 lens constants.

This study was performed with 2000 eyes from 12 surgeons and was published in 1988.² The following conversion equations are the result of the study. All A-scan companies and IOL calculation software manufactured since 1988 use these conversion relationships, which are either programmed into their software or hard-wired into the instrument. Table 1 lists the conversion values for A-constants ranging from 110 to 125 in

0.1 increments. All the values in Table 2 (lens constant registry) are consistent with Table 1 and the conversion equations. The exact conversion equations from the 1988 article are shown below.

The equivalent standardized ACD for a given A-constant can be determined from the following formula, followed by the example, *A-constant* = 118.50.

$$\text{ACD} = \frac{(\text{Aconst} * 0.5663) - 65.600 + 3.595}{0.9704}$$

$$\text{ACD} = \frac{(118.50 * 0.5663) - 65.600 + 3.595}{0.9704} = 5.26 \text{ mm}$$

The equivalent standardized SF can be determined from the following formula:

$$\text{SF} = (\text{Aconst} * 0.5663) - 65.600$$

$$\text{SF} = (118.50 * 0.5663) - 65.600 = 1.51 \text{ mm}$$

When the 3 lens constants provided by the manufacturer were not consistent with the conversion values listed above, the company was asked to choose the lens constant that was the most reliable. The other 2 values were changed to be consistent with the correct conversion value. In most cases, the companies chose the A-constant because it had been determined most recently. All constants for posterior chamber IOLs used after cataract surgery are specified for in-the-bag, not sulcus, fixation. If the lens is to be placed in the sulcus, the ACD and SF should be reduced by 0.25 mm and the A-constant by about 0.5 D.

Phakic IOLs, such as the Artisan lenses from Ophtec and the Nuvita from Bausch & Lomb/Chiron, do not use the axial length vergence equation for determining the lens power; they use a phakic IOL formula.⁵ Nevertheless, these lenses have an ACD value that is used for the calculation. In most cases, the actual anatomic ACD for the patient is used in the formula. The lens constant for these lenses would be the average anatomic ACD in the population of patients in which this lens is used. Since the average age of the patients in whom phakic IOLs are used (42 years) is much younger than that of the average cataract patient (72 years), the average ACD for phakic IOLs is slightly deeper (3.56) than the average anatomic ACD in cataract patients (3.16 mm). However, these values are only averages. In practice, the patient's actual measured anatomic ACD

should be used for the calculation. The equivalent A-constant and SF are listed, but in the phakic IOL formulas, only the ACD can be used, so the values for A-constant and SF are simply the converted values from the average measured ACD; eg, ACD = 3.56 mm yields SF = -0.14 and A-constant = 115.6.

Finally, some of the implants listed have no optic (eg, occluder lenses, capsular bag retention rings). Although they have no power, they are implanted intraocularly in the anterior segment. The lens constant listed is simply the normal position of the lens in the average eye. For example, the capsular retention rings from Ophtec (275 and 276), Hanita (ECR2 and ECR3), and Morcher (14A and 14C) have no optic but are planar and designed to be placed in the bag. The normal ACD for planar IOLs in the bag is approximately 5.26 mm. Since the retention ring goes in the same position within the eye, it is given a lens constant of 5.26 mm. These values are helpful in determining the "normal" position of these lenses in the eye. They are obviously not intended for IOL calculations.

Every attempt was made to include all commercially available IOLs and implants. Nevertheless, omissions and errors are inevitable. Corrections or additions should be mailed to the reprint address or sent by e-mail (holladay@docholladay.com) or fax (713/669-9153).

References

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Table 1. Lens constant conversion table.

A-Constant	ACD	Surgeon Factor	A-Constant	ACD	Surgeon Factor
110.0	0.30	-3.31	112.0	1.46	-2.17
110.1	0.36	-3.25	112.1	1.52	-2.12
110.2	0.41	-3.19	112.2	1.58	-2.06
110.3	0.47	-3.14	112.3	1.64	-2.00
110.4	0.53	-3.08	112.4	1.70	-1.95
110.5	0.59	-3.02	112.5	1.76	-1.89
110.6	0.65	-2.97	112.6	1.81	-1.83
110.7	0.71	-2.91	112.7	1.87	-1.78
110.8	0.76	-2.85	112.8	1.93	-1.72
110.9	0.82	-2.80	112.9	1.99	-1.66
111.0	0.88	-2.74	113.0	2.05	-1.61
111.1	0.94	-2.68	113.1	2.11	-1.55
111.2	1.00	-2.63	113.2	2.16	-1.49
111.3	1.06	-2.57	113.3	2.22	-1.44
111.4	1.11	-2.51	113.4	2.28	-1.38
111.5	1.17	-2.46	113.5	2.34	-1.32
111.6	1.23	-2.40	113.6	2.40	-1.27
111.7	1.29	-2.34	113.7	2.46	-1.21
111.8	1.35	-2.29	113.8	2.51	-1.16
111.9	1.41	-2.23	113.9	2.57	-1.10

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A-Constant	ACD	Surgeon Factor	A-Constant	ACD	Surgeon Factor
114.0	2.63	-1.04	118.1	5.02	1.28
114.1	2.69	-0.99	118.2	5.08	1.34
114.2	2.75	-0.93	118.3	5.14	1.39
114.3	2.81	-0.87	118.4	5.20	1.45
114.4	2.86	-0.82	118.5	5.26	1.51
114.5	2.92	-0.76	118.6	5.32	1.56
114.6	2.98	-0.70	118.7	5.37	1.62
114.7	3.04	-0.65	118.8	5.43	1.68
114.8	3.10	-0.59	118.9	5.49	1.73
114.9	3.16	-0.53	119.0	5.55	1.79
115.0	3.21	-0.48	119.1	5.61	1.85
115.1	3.27	-0.42	119.2	5.67	1.90
115.2	3.33	-0.36	119.3	5.72	1.96
115.3	3.39	-0.31	119.4	5.78	2.02
115.4	3.45	-0.25	119.5	5.84	2.07
115.5	3.51	-0.19	119.6	5.90	2.13
115.6	3.56	-0.14	119.7	5.96	2.19
115.7	3.62	-0.08	119.8	6.02	2.24
115.8	3.68	-0.02	119.9	6.07	2.30
115.9	3.74	0.03	120.0	6.13	2.36
116.0	3.80	0.09	120.1	6.19	2.41
116.1	3.86	0.15	120.2	6.25	2.47
116.2	3.91	0.20	120.3	6.31	2.53
116.3	3.97	0.26	120.4	6.37	2.58
116.4	4.03	0.32	120.5	6.42	2.64
116.5	4.09	0.37	120.6	6.48	2.70
116.6	4.15	0.43	120.7	6.54	2.75
116.7	4.21	0.49	120.8	6.60	2.81
116.8	4.27	0.54	120.9	6.66	2.87
116.9	4.32	0.60	121.0	6.72	2.92
117.0	4.38	0.66	121.1	6.77	2.98
117.1	4.44	0.71	121.2	6.83	3.04
117.2	4.50	0.77	121.3	6.89	3.09
117.3	4.56	0.83	121.4	6.95	3.15
117.4	4.62	0.88	121.5	7.01	3.21
117.5	4.67	0.94	121.6	7.07	3.26
117.6	4.73	1.00	121.7	7.12	3.32
117.7	4.79	1.05	121.8	7.18	3.38
117.8	4.85	1.11	121.9	7.24	3.43
117.9	4.91	1.17	122.0	7.30	3.49
118.0	4.97	1.22	122.1	7.36	3.55

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A-Constant	ACD	Surgeon Factor	A-Constant	ACD	Surgeon Factor
122.2	7.42	3.60	123.7	8.29	4.45
122.3	7.47	3.66	123.8	8.35	4.51
122.4	7.53	3.72	123.9	8.41	4.56
122.5	7.59	3.77	124.0	8.47	4.62
122.6	7.65	3.83	124.1	8.53	4.68
122.7	7.71	3.89	124.2	8.58	4.73
122.8	7.77	3.94	124.3	8.64	4.79
122.9	7.82	4.00	124.4	8.70	4.85
123.0	7.88	4.05	124.5	8.76	4.90
123.1	7.94	4.11	124.6	8.82	4.96
123.2	8.00	4.17	124.7	8.88	5.02
123.3	8.06	4.22	124.8	8.93	5.07
123.4	8.12	4.28	124.9	8.99	5.13
123.5	8.18	4.34	125.0	9.05	5.19
123.6	8.23	4.39			

ACD = anterior chamber depth

Table 2. Lens registry.

Model Name	A-Constant	ACD	Surgeon Factor	Model Name	A-Constant	ACD	Surgeon Factor
Acrimed				91 A-CC	114.5	2.92	-0.76
11 C-11-BC	118.0	4.97	1.22	ACRIFLEX 41 C	119.0	5.55	1.79
11 C-12-BC	118.0	4.97	1.22	ACRIFLEX 414	117.8	4.85	1.11
11 C-12-CC	117.0	4.38	0.66	ACRIFLEX 45 C	118.0	4.97	1.22
12 C-BC	118.9	5.49	1.73	Acritec			
12 C-CC	117.8	4.85	1.11	13 A	115.5	3.51	-0.19
23 CS-BC	118.9	5.49	1.73	23 CS	118.9	5.49	1.73
23 CS-CC	117.8	4.85	1.11	27 SF-BC	118.9	5.49	1.73
30 CS	117.8	4.85	1.11	27 SF-CC	117.8	4.85	1.11
50 CS	118.5	5.26	1.51	43 TS	119.0	5.55	1.79
602 MP-BC	118.9	5.49	1.73	44 S	119.0	5.55	1.79
602 MP-CC	117.8	4.85	1.11	53 N	118.5	5.26	1.51
612 C-BC	118.2	5.08	1.34	73 N	118.5	5.26	1.51
612 C-CC	119.2	5.67	1.90	733 D	118.5	5.26	1.51
653 MP-BC	118.9	5.49	1.73	737 D	118.5	5.26	1.51
653 MP-CC	117.8	4.85	1.11	80 CM	118.9	5.49	1.73
700 MP-BC	118.9	5.49	1.73	81 C-11	118.0	4.97	1.22
700 MP-CC	117.8	4.85	1.11	81 C-12	118.0	4.97	1.22
87 CS	118.3	5.14	1.39	82 C	118.9	5.49	1.73
91 A-BC	115.3	3.39	-0.31	84 C	118.9	5.49	1.73

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Model Name	A-Constant	ACD	Surgeon Factor	Model Name	A-Constant	ACD	Surgeon Factor
Acritec, con't				MC50RM	116.5	4.09	0.37
85 C	118.9	5.49	1.73	MC51BM	118.7	5.37	1.62
86 CS	118.9	5.49	1.73	MC51MM	115.6	3.56	-0.14
91 A	115.3	3.39	-0.31	MC52BM	118.7	5.37	1.62
SR 10	118.0	4.97	1.22	MC60BD	118.7	5.37	1.62
SR 11	118.0	4.97	1.22	MC60BM	118.7	5.37	1.62
SR 12	118.0	4.97	1.22	MC60CM	116.6	4.15	0.43
Alcon/Cilco				MC60CP*	116.6	4.15	0.43
39XONB*	117.4	4.62	0.88	MC61BM*	118.7	5.37	1.62
55XONB*	117.9	4.91	1.17	MC61CM	116.6	4.15	0.43
55XOBA*	117.9	4.91	1.17	MC70CM	116.4	4.03	0.32
ANISBU*	116.2	3.91	0.20	MC70CP*	116.4	4.03	0.32
AR12UO	118.7	5.37	1.62	MC71CM	116.4	4.03	0.32
CF57BA*	118.7	5.37	1.62	MC71CP*	116.4	4.03	0.32
CN50CM	116.5	4.09	0.37	ME20BD*	118.7	5.37	1.62
CP5BUO*	118.9	5.49	1.73	ME60BD*	118.7	5.37	1.62
CR3BUO*	119.0	5.55	1.79	ML20BD*	118.7	5.37	1.62
CR5BUO*	119.0	5.55	1.79	MN20BD	118.7	5.37	1.62
CVC1UO	118.9	5.49	1.73	MN30BD	118.7	5.37	1.62
CZ20BD*	118.7	5.37	1.62	MN30BF*	118.7	5.37	1.62
CZ60BD	118.7	5.37	1.62	MN40BD	118.7	5.37	1.62
CZ70BD	118.8	5.43	1.68	MN60BD	118.7	5.37	1.62
JF3BUO*	118.7	5.37	1.62	MTA2UO	115.3	3.39	-0.31
JF3LRU	116.5	4.09	0.37	MTA3UO	115.3	3.39	-0.31
JF3UOQO	116.6	4.15	0.43	MTA4UO	115.3	3.39	-0.31
LC80BD	118.7	5.37	1.62	MTA5UO	115.3	3.39	-0.31
LX10BD	118.7	5.37	1.62	MTA6UO	115.3	3.39	-0.31
LX90BD	118.7	5.37	1.62	MTA7UO	115.3	3.39	-0.31
MA30BA	118.9	5.49	1.73	MX20BD*	118.7	5.37	1.62
MA50BM	118.9	5.49	1.73	MX30CD	116.5	4.09	0.37
MA60BM	118.9	5.49	1.73	MZ20BD	118.7	5.37	1.62
MC20BA	118.7	5.37	1.62	MZ20CD	116.6	4.15	0.43
MC20C2*	116.2	3.91	0.20	MZ30BD	118.7	5.37	1.62
MC20CM	116.6	4.15	0.43	MZ40BD	118.7	5.37	1.62
MC30BA	118.7	5.37	1.62	MZ60BA	118.7	5.37	1.62
MC30CM	116.8	4.27	0.54	MZ60BD	118.7	5.37	1.62
MC40BD	118.7	5.37	1.62	MZ60CD	116.6	4.15	0.43
MC40C2*	116.2	3.91	0.20	MZ60MD	118.7	5.37	1.62
MC50BD	118.7	5.37	1.62	MZ60PD	118.7	5.37	1.62
MC50BM	118.7	5.37	1.62	S2BUOQO*	116.2	3.91	0.20
MC50MM*	115.6	3.56	-0.14	SK21RU*	116.5	4.09	0.37

*Discontinued

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Model Name	A-Constant	ACD	Surgeon Factor	Model Name	A-Constant	ACD	Surgeon Factor
Alcon/Cilco, con't				PS-25TB*	117.2	4.50	0.77
SK21UO*	116.6	4.15	0.43	PS-26TB*	117.1	4.44	0.71
SK22UO*	116.6	4.15	0.43	PS-38NB*	117.3	4.56	0.83
SK32UO*	116.6	4.15	0.43	PS-42ANB*	117.7	4.79	1.05
SK51RM*	116.5	4.09	0.37	PS-43NB*	118.4	5.20	1.45
SK60BM	118.7	5.37	1.62	PS-44NB*	118.4	5.20	1.45
SK60CM	116.6	4.15	0.43	PS-45NB*	118.4	5.20	1.45
SK61BM	118.7	5.37	1.62	PS-52ANB*	117.6	4.73	1.00
SK61CM	116.6	4.15	0.43	PS-53ANB*	117.7	4.79	1.05
SK62CP*	116.9	4.32	0.60	PS-54ANB*	117.7	4.79	1.05
SK70CP*	116.4	4.03	0.32	PS-54ATB*	117.7	4.79	1.05
SK71CP*	116.4	4.03	0.32	PS-57B*	117.1	4.44	0.71
SZ20BD	118.7	5.37	1.62	PS-59NB*	117.4	4.62	0.88
SZ30BD	118.7	5.37	1.62	PS-60AJB*	116.7	4.21	0.49
SZ60BD*	118.7	5.37	1.62	PS-60AMB*	116.7	4.21	0.49
Allergan/Ioptex				PS-60ANB*	116.7	4.21	0.49
AC-21B(12)*	115.1	3.27	-0.42	PS-60AZB*	116.7	4.21	0.49
AC-21B(13)*	115.1	3.27	-0.42	PS-65ATB*	116.6	4.15	0.43
AC-21B(14)*	115.1	3.27	-0.42	SA-40N	118.0	4.97	1.22
AP961L*	114.5	2.92	-0.76	SI-14PB*	119.0	5.55	1.79
AP961M*	114.5	2.92	-0.76	SI-20NGB*	117.4	4.62	0.88
AP961S*	114.5	2.92	-0.76	SI-30NB	117.4	4.62	0.88
AR-40	118.4	5.20	1.45	SI-40NB	118.0	4.97	1.22
DuraLensII-52	118.1	5.02	1.28	SI55NB	118.0	4.97	1.22
DuraLensII-53	118.4	5.20	1.45	U250F*	116.3	3.97	0.26
DuraLensII-54	118.3	5.14	1.39	U360*	116.5	4.09	0.37
DuraLensII-54T	118.3	5.14	1.39	U370*	116.4	4.03	0.32
DuraLensII-59	118.4	5.20	1.45	UB320EFS*	118.2	5.08	1.34
DuraLensII-60	118.3	5.14	1.39	UPB260S*	117.9	4.91	1.17
DuraLensII-60L	118.3	5.14	1.39	UPB300F*	117.5	4.67	0.94
DuraLensII-60N	118.3	5.14	1.39	UPB300FNS*	117.5	4.67	0.94
DuraLensII-65T	118.3	5.14	1.39	UPB320FS*	117.5	4.67	0.94
PC-11NB*	116.5	4.09	0.37	UPB320GNS*	117.8	4.85	1.11
PC-12NB*	116.9	4.32	0.60	UPB320GS*	117.9	4.91	1.17
PC-15NB*	116.8	4.27	0.54	UPB330GS*	117.9	4.91	1.17
PC-62CNB*	117.7	4.79	1.05	UPB330VS*	117.8	4.85	1.11
PC-62NJB*	117.7	4.79	1.05	UPB350FNS*	117.5	4.67	0.94
PC-64CNB*	118.3	5.14	1.39	UPB350GS*	117.8	4.85	1.11
PC-64NJB*	118.3	5.14	1.39	UPB350S*	117.9	4.91	1.17
PS-101A*	116.8	4.27	0.54	UPB360*	118.1	5.02	1.28
PS-102A*	116.7	4.21	0.49	UPB360GS*	117.8	4.85	1.11

*Discontinued

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Model Name	A-Constant	ACD	Surgeon Factor	Model Name	A-Constant	ACD	Surgeon Factor
Allergan/Ioptex, con't				3266S*	116.8	4.27	0.54
UPB370*	117.9	4.91	1.17	3267B*	118.2	5.08	1.34
UPB380*	118.0	4.97	1.22	3291B*	118.2	5.08	1.34
UPB380C*	118.3	5.14	1.39	3360S*	116.6	4.15	0.43
UPB380S*	118.1	5.02	1.28	3366R*	116.6	4.15	0.43
UPBR320GS*	117.9	4.91	1.17	3366S*	116.6	4.15	0.43
UVB330-67E*	118.2	5.08	1.34	3367B*	118.4	5.20	1.45
UVB334-58*	118.1	5.02	1.28	3380S*	116.6	4.15	0.43
UVBN324-56*	117.4	4.62	0.88	3466R*	116.8	4.27	0.54
B&L				3466S*	116.8	4.27	0.54
BL27	117.8	4.85	1.11	3841L*	117.2	4.50	0.77
B&L/Adatomed				3841S*	117.2	4.50	0.77
23AL*	115.3	3.39	-0.31	3991B*	118.5	5.26	1.51
23Am*	115.3	3.39	-0.31	3991S*	117.3	4.56	0.83
23As*	115.3	3.39	-0.31	4141B*	118.3	5.14	1.39
42P*	118.5	5.26	1.51	4141R*	116.6	4.15	0.43
43NH*	118.5	5.26	1.51	4141S*	116.6	4.15	0.43
53P*	116.6	4.15	0.43	4240R*	116.8	4.27	0.54
66P*	116.8	4.27	0.54	4240S*	116.8	4.27	0.54
74NH*	117.8	4.85	1.11	4241B*	118.2	5.08	1.34
75ST-6	118.9	5.49	1.73	4241S*	116.6	4.15	0.43
76NH	118.9	5.49	1.73	4246R*	116.8	4.27	0.54
76P*	118.9	5.49	1.73	4246S*	116.8	4.27	0.54
82NH	118.9	5.49	1.73	4291B*	118.2	5.08	1.34
88T1a	118.0	4.97	1.22	4340B*	118.4	5.20	1.45
88T1b	118.0	4.97	1.22	4340R*	116.6	4.15	0.43
89NH*	118.9	5.49	1.73	4340S*	116.6	4.15	0.43
90DUV*	118.5	5.26	1.51	4341B*	118.4	5.20	1.45
B&L/Chiron/Iolab/I.O.				4346R*	116.6	4.15	0.43
2192L*	114.2	2.75	-0.93	4346S*	116.6	4.15	0.43
2192S	114.2	2.75	-0.93	4347B*	118.4	5.20	1.45
3066R*	116.6	4.15	0.43	4491B*	118.5	5.26	1.51
3161B*	118.3	5.14	1.39	4495B*	119.5	5.84	2.07
3161S*	116.6	4.15	0.43	4691B*	118.5	5.26	1.51
3236S*	116.2	3.91	0.20	4893B*	118.4	5.20	1.45
3241B*	118.2	5.08	1.34	4897B*	119.0	5.55	1.79
3241S*	117.3	4.56	0.83	6190B	118.3	5.14	1.39
3260S*	116.8	4.27	0.54	6441B*	118.3	5.14	1.39
3262L*	116.8	4.27	0.54	6669B*	118.2	5.08	1.34
3263S*	116.8	4.27	0.54	6693B	118.2	5.08	1.34
3266R*	116.8	4.27	0.54	6741B	118.3	5.14	1.39

*Discontinued

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Model Name	A-Constant	ACD	Surgeon Factor	Model Name	A-Constant	ACD	Surgeon Factor
B&L/Chiron/Iolab/I.O., cont'				CM12UB*	118.2	5.08	1.34
6791B*	117.4	4.62	0.88	CM14U*	116.9	4.32	0.60
6793B	118.3	5.14	1.39	CM14UB*	118.2	5.08	1.34
6840B	118.4	5.20	1.45	CM14UBT*	118.2	5.08	1.34
6842B	118.4	5.20	1.45	CM15U*	116.9	4.32	0.60
6843B*	118.4	5.20	1.45	CM16UB*	118.0	4.97	1.22
8091B	118.5	5.26	1.51	CM19UB*	118.0	4.97	1.22
8093B	118.5	5.26	1.51	CM21U*	116.9	4.32	0.60
8095B	118.5	5.26	1.51	CM24UB*	118.2	5.08	1.34
8190B*	118.5	5.26	1.51	CM25UB*	118.2	5.08	1.34
8191B	118.5	5.26	1.51	EB33B	118.4	5.20	1.45
8191M*	118.5	5.26	1.51	JM17UB*	118.2	5.08	1.34
8193B*	118.2	5.08	1.34	LJ41U	117.5	4.67	0.94
8195B	118.4	5.20	1.45	LI51U	119.5	5.84	2.07
8240R*	116.8	4.27	0.54	LI61U	118.0	4.97	1.22
8491B	118.5	5.26	1.51	LI63U	118.5	5.26	1.51
8493B*	118.2	5.08	1.34	MC502*	118.0	4.97	1.22
8541B*	119.0	5.55	1.79	MC550	118.5	5.26	1.51
8590B*	119.0	5.55	1.79	Nuvita*	115.8	3.68	-0.02
8591B	119.0	5.55	1.79	SAL1U*	116.2	3.91	0.20
8593B	119.0	5.55	1.79	SAL2UB*	118.4	5.20	1.45
8595B	119.0	5.55	1.79	SAL3UB*	118.4	5.20	1.45
8641B	119.0	5.55	1.79	SK11U*	116.9	4.32	0.60
8741B*	118.3	5.14	1.39	SK14U*	116.9	4.32	0.60
8991B*	118.5	5.26	1.51	SK15U*	116.9	4.32	0.60
9010B*	118.4	5.20	1.45	SK18UB*	118.2	5.08	1.34
9150B*	118.2	5.08	1.34	SP12UB*	118.5	5.26	1.51
9210B*	118.2	5.08	1.34	SP13UB*	118.2	5.08	1.34
9250S*	116.9	4.32	0.60	SP14UB*	118.3	5.14	1.39
9410B*	118.0	4.97	1.22	SP15UB*	118.3	5.14	1.39
9660S*	116.9	4.32	0.60	SP16UB*	118.5	5.26	1.51
9831B*	118.4	5.20	1.45	SP18UB*	118.7	5.37	1.62
9890B*	118.7	5.37	1.62	SP24UB*	118.5	5.26	1.51
C10B*	119.0	5.55	1.79	SP25UB*	118.4	5.20	1.45
C10UB*	119.0	5.55	1.79	SP29UB*	118.4	5.20	1.45
C11UB	119.0	5.55	1.79	SP30UB*	118.2	5.08	1.34
C24B*	119.0	5.55	1.79	SP33UB*	118.5	5.26	1.51
C31B*	119.0	5.55	1.79	SP37UB*	118.0	4.97	1.22
C31UB	119.0	5.55	1.79	SP38UB*	118.0	4.97	1.22
CB20B*	118.3	5.14	1.39	SP38UBN*	118.0	4.97	1.22
CM11UB*	118.4	5.20	1.45	SP40UB*	118.4	5.20	1.45

*Discontinued

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Model Name	A-Constant	ACD	Surgeon Factor	Model Name	A-Constant	ACD	Surgeon Factor
B&L/Chiron/Iolab/I.O., con't				EZE-165*	118.1	5.02	1.28
SP513*	120.0	6.13	2.36	EZE-256L*	118.5	5.26	1.51
SU124	118.0	4.97	1.22	EZE-50	118.1	5.02	1.28
U85JL	114.9	3.16	-0.53	EZE-55	118.1	5.02	1.28
U85JM	114.9	3.16	-0.53	EZE-55N*	118.1	5.02	1.28
U85JS	114.9	3.16	-0.53	EZE-56	118.1	5.02	1.28
B&L/Storz				EZE-60	118.1	5.02	1.28
106UV*	118.5	5.26	1.51	EZE-60N*	118.1	5.02	1.28
107UV*	118.5	5.26	1.51	EZE-65	118.1	5.02	1.28
127UV	118.0	4.97	1.22	H55S	118.3	5.14	1.39
207UV	118.0	4.97	1.22	H60M	118.3	5.14	1.39
560CUV	118.5	5.26	1.51	L122UV	115.8	3.68	-0.02
650CUV	118.0	4.97	1.22	MB10UV*	116.8	4.27	0.54
68BUV	118.5	5.26	1.51	P003UV	119.0	5.55	1.79
68RUV	117.3	4.56	0.83	P010UV	118.0	4.97	1.22
68UV	118.5	5.26	1.51	P011UV*	118.3	5.14	1.39
71UV	119.0	5.55	1.79	P047UV*	118.0	4.97	1.22
71UVNH	119.0	5.55	1.79	P325BUV	118.0	4.97	1.22
73UV	118.5	5.26	1.51	P328UV	118.4	5.20	1.45
87NUV*	119.0	5.55	1.79	P329UV	118.4	5.20	1.45
95BUV	118.0	4.97	1.22	P336UV	118.4	5.20	1.45
95UV	118.0	4.97	1.22	P337UV	118.4	5.20	1.45
BV359	118.0	4.97	1.22	P356UV	118.0	4.97	1.22
BV379	118.4	5.20	1.45	P359TUV	118.0	4.97	1.22
BV485	118.1	5.02	1.28	P359UV	118.0	4.97	1.22
BVR-150M	118.1	5.02	1.28	P366UV(12)	118.5	5.26	1.51
BVR-150S	118.1	5.02	1.28	P366UV(13.4)	118.5	5.26	1.51
BVR-155M	118.1	5.02	1.28	P379UV	118.4	5.20	1.45
BVR-155S	118.1	5.02	1.28	P389UV	118.0	4.97	1.22
BVR-160M	118.1	5.02	1.28	P390UV*	118.0	4.97	1.22
BVR-160S	118.1	5.02	1.28	P391UV	118.0	4.97	1.22
BVR-165L	118.1	5.02	1.28	P399UV	118.0	4.97	1.22
BVR-170L	118.1	5.02	1.28	P408UV	118.1	5.02	1.28
EZE-150*	118.1	5.02	1.28	P434UV	118.0	4.97	1.22
EZE-150A*	118.1	5.02	1.28	P453UV*	118.0	4.97	1.22
EZE-155*	118.1	5.02	1.28	P454UV	118.0	4.97	1.22
EZE-155A	118.1	5.02	1.28	P486UV	118.1	5.02	1.28
EZE-155N*	118.1	5.02	1.28	P492UV	118.1	5.02	1.28
EZE-160*	118.1	5.02	1.28	P494UV	118.1	5.02	1.28
EZE-160A	118.1	5.02	1.28	P496LV	118.1	5.02	1.28
EZE-160N*	118.1	5.02	1.28	P497LV	118.1	5.02	1.28

*Discontinued

Model Name	A-Constant	ACD	Surgeon Factor	Model Name	A-Constant	ACD	Surgeon Factor
B&L/Storz, con't				Pyrite 500	118.0	4.97	1.22
P499UV	118.1	5.02	1.28	Saphir 650	118.3	5.14	1.39
P501UV*	118.0	4.97	1.22	Saphir 652	118.3	5.14	1.39
P502UV*	118.0	4.97	1.22	Saphir 700	118.3	5.14	1.39
P504UV*	118.1	5.02	1.28	Saphir 712	118.3	5.14	1.39
P506UV	118.5	5.26	1.51	Corneal			
P507UV*	118.0	4.97	1.22	ACR6D	119.0	5.55	1.79
P508UV	118.1	5.02	1.28	QUATTRO	119.0	5.55	1.79
P508UV*	118.1	5.02	1.28	Domilens			
P512UV	118.1	5.02	1.28	AL1*	118.9	5.49	1.73
P513UV	118.4	5.20	1.45	AL3*	120.0	6.13	2.36
P517UV*	118.0	4.97	1.22	BOB 2T*	118.9	5.49	1.73
P518UV	118.0	4.97	1.22	C2-12*	114.8	3.10	-0.59
P519UV	117.9	4.91	1.17	C2-12.5*	114.8	3.10	-0.59
P524UV	117.9	4.91	1.17	C2-13*	114.8	3.10	-0.59
P525UV	118.0	4.97	1.22	C2-13.5*	114.8	3.10	-0.59
P526UV	118.1	5.02	1.28	CENTRA50B12.5	118.5	5.26	1.51
P530UV*	118.0	4.97	1.22	CENTRA50B13.0	118.5	5.26	1.51
P534UV*	118.1	5.02	1.28	CENTRA50F12.5*	118.5	5.26	1.51
P538UV*	117.9	4.91	1.17	CENTRA50F13.0*	118.5	5.26	1.51
P541UV	118.4	5.20	1.45	CENTRA55B	118.5	5.26	1.51
P574UV	118.1	5.02	1.28	CENTRA55F	118.5	5.26	1.51
P762UV	118.0	4.97	1.22	CENTRA60B	118.5	5.26	1.51
PO10UV	118.0	4.97	1.22	CENTRA60F	118.5	5.26	1.51
PO13UV	118.5	5.26	1.51	C-FIX60*	118.2	5.08	1.34
PO19UV*	119.0	5.55	1.79	CHIP2*	118.0	4.97	1.22
PO41UV*	118.5	5.26	1.51	CHIP3*	118.8	5.43	1.68
S122UV	115.8	3.68	-0.02	CP-62*	117.4	4.62	0.88
Chauvin-Opsia				DELA2*	117.5	4.67	0.94
Agna 550	118.0	4.97	1.22	FLEX60	119.3	5.72	1.96
Agna 600	118.0	4.97	1.22	FLEX60 12	118.9	5.49	1.73
Akreos Disc	118.0	4.97	1.22	FLEX60F	119.3	5.72	1.96
Akreos Fit	118.0	4.97	1.22	FLEX65 12	119.2	5.67	1.90
Altair 550	118.0	4.97	1.22	FLEX65-12.5	119.2	5.67	1.90
Altair 600	118.0	4.97	1.22	FLEX65-13.5	118.4	5.20	1.45
Altair 650	118.0	4.97	1.22	FLEX652	118.5	5.26	1.51
Altair 652	118.0	4.97	1.22	FLEX652F	118.4	5.20	1.45
Azurite	115.3	3.39	-0.31	FLEX65F	119.2	5.67	1.90
Beryl 550	118.0	4.97	1.22	FLEX65L	118.4	5.20	1.45
Grenat	118.5	5.26	1.51	FLEX7	118.5	5.26	1.51
Kellos Easy	117.8	4.85	1.11	J(2)B62*	118.7	5.37	1.62

*Discontinued

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Model Name	A-Constant	ACD	Surgeon Factor	Model Name	A-Constant	ACD	Surgeon Factor
Domilens, con't				SILENS5	117.5	4.67	0.94
J(2)B72*	118.6	5.32	1.56	SILENS6	118.1	5.02	1.28
J(2)P62*	116.9	4.32	0.60	SILENSPH	119.0	5.55	1.79
JB-62*	118.7	5.37	1.62	SILENSPH2	119.0	5.55	1.79
JB72*	119.0	5.55	1.79	SOFLEX2	118.1	5.02	1.28
JB-72*	118.6	5.32	1.56	SPI7T*	118.5	5.26	1.51
JM652*	116.4	4.03	0.32	Z-12.5	114.7	3.04	-0.65
JP-62*	117.4	4.62	0.88	Z-13	114.7	3.04	-0.65
JP64*	117.4	4.62	0.88	Z-13.5	114.7	3.04	-0.65
JP72*	116.9	4.32	0.60	ZB5MF12.5	114.2	2.75	-0.93
JUN 10F*	119.0	5.55	1.79	ZB5MF13	114.2	2.75	-0.93
JUN 11F*	119.0	5.55	1.79	ZB5MF13.5	114.2	2.75	-0.93
L(2)B652*	118.6	5.32	1.56	ZB6MF-12.0*	114.7	3.04	-0.65
L(2)B72*	118.0	4.97	1.22	ZB6MF-12.5*	114.7	3.04	-0.65
L(2)P72*	116.9	4.32	0.60	ZB6MF-13.0*	114.7	3.04	-0.65
L3-12.75*	115.3	3.39	-0.31	ZB6MF-13.5*	114.7	3.04	-0.65
L3-13.25*	115.3	3.39	-0.31	ZF-12.5*	114.7	3.04	-0.65
L3-13.75*	115.3	3.39	-0.31	ZF-13*	114.7	3.04	-0.65
LB70*	118.0	4.97	1.22	ZF-13.5*	114.7	3.04	-0.65
LP652*	116.9	4.32	0.60	Dr. Schmidt			
LP70*	116.9	4.32	0.60	MP 126-BC	118.0	4.97	1.22
MIC6	118.4	5.20	1.45	MP 126-CC	119.0	5.55	1.79
MIC6F*	118.4	5.20	1.45	MP 2125-BC	118.2	5.08	1.34
PERLENS1	119.0	5.55	1.79	MP 2125-CC	119.2	5.67	1.90
PERLENS2	119.0	5.55	1.79	MP 250-BC	118.2	5.08	1.34
PERLENS3	119.0	5.55	1.79	MP 250-CC	119.2	5.67	1.90
PNC*	120.0	6.13	2.36	MP 260-BC	118.2	5.08	1.34
PROGRESS3*	117.5	4.67	0.94	MP 260-CC	119.2	5.67	1.90
PSM3	118.5	5.26	1.51	MP 600 TU	118.0	4.97	1.22
PSM4*	116.0	3.80	0.09	MP 600-BC	118.0	4.97	1.22
SIFLEX 1-13.0	119.8	6.02	2.24	MP 600-CC	119.0	5.55	1.79
SIFLEX1-12.5	119.8	6.02	2.24	MP 650/0-BC	118.0	4.97	1.22
SIFLEX1-13.25	119.8	6.02	2.24	MP 650/0-CC	119.0	5.55	1.79
SIFLEX2	119.4	5.78	2.02	MP 650/2-BC	118.0	4.97	1.22
SIFLEX4	118.4	5.20	1.45	MP 650/2-CC	119.0	5.55	1.79
SIFLEX5*	118.7	5.37	1.62	MP 700/0-BC	118.0	4.97	1.22
SIFLEX6	118.1	5.02	1.28	MP 700/0-CC	119.0	5.55	1.79
SIFLEX8	118.2	5.08	1.34	MP 700/2-BC	118.0	4.97	1.22
SIFLEX9-1	118.2	5.08	1.34	MP 700/2-CC	119.0	5.55	1.79
SIFLEX9-2	118.2	5.08	1.34	MP 707-BC	118.5	5.26	1.51
SILENS2	119.0	5.55	1.79	MP 707-CC	119.5	5.84	2.07

*Discontinued

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Model Name	A-Constant	ACD	Surgeon Factor	Model Name	A-Constant	ACD	Surgeon Factor
Dr. Schmidt, con't				OPB-125	118.5	5.26	1.51
MP 7125/0-BC	118.0	4.97	1.22	OPB-15	118.0	4.97	1.22
MP 7125/0-CC	119.0	5.55	1.79	OPB-150	118.0	4.97	1.22
MP 7125/2-BC	118.0	4.97	1.22	OPB-155	117.0	4.38	0.66
MP 7125/2-CC	119.0	5.55	1.79	OPB-160	118.5	5.26	1.51
MP 770/2-CC	119.5	5.84	2.07	OPB-165	118.0	4.97	1.22
MP 770-BC	118.5	5.26	1.51	OPB-22	118.0	4.97	1.22
MP VK 400-BC	115.9	3.74	0.03	OPB-70	118.0	4.97	1.22
MP VK 400-CC	114.9	3.16	-0.53	PCC-17	117.5	4.67	0.94
MS 612	118.6	5.32	1.56	HumanOptics			
MS 614	118.6	5.32	1.56	HD	118.4	5.20	1.45
EUROCRYSTAL				K3	118.1	5.02	1.28
IF60115	119.0	5.55	1.79	PM 525	118.2	5.08	1.34
IFP1E6.00	118.2	5.08	1.34	PM 555	118.2	5.08	1.34
IFP3D6.00	117.5	4.67	0.94	PM 613A	115.9	3.74	0.03
IPA601250	115.3	3.39	-0.31	PM 625	118.2	5.08	1.34
IPP2C5.25	118.1	5.02	1.28	PM 635	118.0	4.97	1.22
IPP2C5.50	118.0	4.97	1.22	PM 6535/0	118.0	4.97	1.22
IPP2C6.00	118.4	5.20	1.45	PM 6535/2	118.0	4.97	1.22
IPP2C6.50	118.4	5.20	1.45	PMR 31	118.5	5.26	1.51
IPP50120	118.2	5.08	1.34	Imperial Medical			
IPP551225	118.2	5.08	1.34	HP-60C-UV	118.8	5.43	1.68
IPP601350	118.3	5.14	1.39	HP-60P-UV	118.8	5.43	1.68
IPP651350	118.3	5.14	1.39	IM-50C-UV	118.2	5.08	1.34
Hanita				IM-55C-UV	118.3	5.14	1.39
BAL-15	118.0	4.97	1.22	IM-60C-UV	118.3	5.14	1.39
BAL-4	118.5	5.26	1.51	IM-60S-UV	115.3	3.39	-0.31
BAL-55	118.0	4.97	1.22	IM-65C-UV	118.3	5.14	1.39
BAL-65	117.9	4.91	1.17	IM-65J2-UV	117.1	4.44	0.71
BALANCE	118.5	5.26	1.51	IOLTECHnologie			
B-Lens	118.2	5.08	1.34	BigBag	120.0	6.13	2.36
BLM	116.8	4.27	0.54	CS56B	118.2	5.08	1.34
BLM-OP	116.8	4.27	0.54	CS70B	118.0	4.97	1.22
ECR-2	118.5	5.26	1.51	CS72B	118.0	4.97	1.22
ECR-3	118.5	5.26	1.51	DG60	118.2	5.08	1.34
JPM-17	116.8	4.27	0.54	DG65	118.0	4.97	1.22
JPP-10	116.8	4.27	0.54	E4P	115.8	3.68	-0.02
OPAB-130	114.9	3.16	-0.53	E4T	115.8	3.68	-0.02
OPAB-132	114.2	2.75	-0.93	FZ60	118.0	4.97	1.22
OPAB-135	114.9	3.16	-0.53	HAPTIBAG	117.5	4.67	0.94
OPAB-16	114.9	3.16	-0.53	HAPTIBAG ANGULE	118.2	5.08	1.34

*Discontinued

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Model Name	A-Constant	ACD	Surgeon Factor	Model Name	A-Constant	ACD	Surgeon Factor
LETECHnologie, con't				Med. Dev. Res.			
Kidlens	118.0	4.97	1.22	AC37B-0UV	115.1	3.27	-0.42
MF4	118.0	4.97	1.22	AC37C-0UV	115.1	3.27	-0.42
OCTOBAG	117.9	4.91	1.17	CN55B-0UV	118.2	5.08	1.34
PG4P	115.8	3.68	-0.02	CS55A-0UV	118.2	5.08	1.34
PH50B	118.5	5.26	1.51	CS55B-0UV	118.2	5.08	1.34
PH55B	118.2	5.08	1.34	CS65B-2UV	118.2	5.08	1.34
Profil	118.0	4.97	1.22	GN55B-0UV	118.0	4.97	1.22
STABIBAG	118.0	4.97	1.22	GS55A-0UV	118.0	4.97	1.22
TC70B	118.0	4.97	1.22	GS55B-0UV	118.0	4.97	1.22
TC72B	118.0	4.97	1.22	LP50A-0UV	118.2	5.08	1.34
TRIPODE	118.5	5.26	1.51	LP57L-0UV	118.2	5.08	1.34
Visio-I	118.0	4.97	1.22	MA60B-0UV	118.3	5.14	1.39
VISION-MULTIFOCAL	117.9	4.91	1.17	PA11E-0UV	116.9	4.32	0.60
XL STABI	118.0	4.97	1.22	PA11E-2UV	116.9	4.32	0.60
LENSTEC				PA17E-0UV	116.9	4.32	0.60
LA-500	115.3	3.39	-0.31	PA19E-2UV	116.9	4.32	0.60
LA-501	115.3	3.39	-0.31	PA21E-0UV	116.9	4.32	0.60
LA-502	115.3	3.39	-0.31	PA21E-2UV	116.9	4.32	0.60
LF-1000	119.0	5.55	1.79	PA36E-0UV	116.9	4.32	0.60
LF-3000	119.0	5.55	1.79	PA51D-2UV	116.9	4.32	0.60
LN-201012.0	115.3	3.39	-0.31	PA51E-0UV	116.9	4.32	0.60
LN-202012.5	115.3	3.39	-0.31	PA84B-0UV	116.6	4.15	0.43
LN-203013.0	115.3	3.39	-0.31	PB06B-0UV	118.3	5.14	1.39
LN-204013.5	115.3	3.39	-0.31	PB07C-0UV	118.3	5.14	1.39
LR-1300	118.0	4.97	1.22	PB19E-2UV	118.5	5.26	1.51
LR-1300B	118.0	4.97	1.22	PB60B-0UV	118.3	5.14	1.39
LR-1400	118.0	4.97	1.22	PB61B-0UV	118.3	5.14	1.39
LR-1400B	118.0	4.97	1.22	PBN7C-0UV	118.3	5.14	1.39
LS-100	118.0	4.97	1.22	PJ65D-2UV	118.2	5.08	1.34
LS-101	118.0	4.97	1.22	PL52B-0UV	118.0	4.97	1.22
LS-102	118.0	4.97	1.22	PS40D-0UV	118.2	5.08	1.34
LS-106	118.4	5.20	1.45	PS50C-0UV	118.2	5.08	1.34
LS-109	118.2	5.08	1.34	PS60C-0UV	118.2	5.08	1.34
LS-111	118.4	5.20	1.45	RM60D-2UV	118.5	5.26	1.51
LS-112	118.4	5.20	1.45	SC25B-0UV	117.5	4.67	0.94
LS-114	118.1	5.02	1.28	SC60B-0UV	117.5	4.67	0.94
LS-117	118.4	5.20	1.45	SD60F-4UV	119.0	5.55	1.79
SilTec	118.0	4.97	1.22	SH107-2UV	119.0	5.55	1.79
SofTecl	118.0	4.97	1.22	SP60S-4UV	118.0	4.97	1.22
SofTecll	118.0	4.97	1.22	TC65B-SUV	118.2	5.08	1.34

*Discontinued

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Model Name	A-Constant	ACD	Surgeon Factor	Model Name	A-Constant	ACD	Surgeon Factor
Med. Dev. Res., con't				C455B5	117.0	4.38	0.66
TLC7B-SUV	118.2	5.08	1.34	C455F	119.0	5.55	1.79
MEDEVEC				C455L	119.0	5.55	1.79
VS2uv-6	119.0	5.55	1.79	C455M	119.0	5.55	1.79
MedRx				C455Z5	119.0	5.55	1.79
Dialens-Diabetic	118.8	5.43	1.68	C460A5	119.0	5.55	1.79
Hydroptics+ -HF60C UV	118.8	5.43	1.68	C530P	119.0	5.55	1.79
Hydroptics-HP55C UV	118.8	5.43	1.68	C540MC	119.0	5.55	1.79
Hydroptics-HP60C UV	118.8	5.43	1.68	C580F	119.0	5.55	1.79
Iolens A/C-IM60S-UV	115.3	3.39	-0.31	C580F2	119.0	5.55	1.79
Iolens-IM50C-UV	118.2	5.08	1.34	C581F2	119.0	5.55	1.79
Iolens-IM55C-UV	118.3	5.14	1.39	C840U	119.0	5.55	1.79
Iolens-IM60C-UV	118.3	5.14	1.39	C840Z	119.0	5.55	1.79
Iolens-IM65C-UV	118.3	5.14	1.39	C840Z2	119.0	5.55	1.79
Iolens-IM65J2-UV	117.1	4.44	0.71	C840Z5	119.0	5.55	1.79
Softvault+-HF60P UV	118.8	5.43	1.68	C881M	119.0	5.55	1.79
Softvault-HP60P UV	118.8	5.43	1.68	C881M2	119.0	5.55	1.79
Mentor/ORC				U210F	118.7	5.37	1.62
C410F	119.0	5.55	1.79	U210F5	118.7	5.37	1.62
C410F5	119.0	5.55	1.79	U211M	118.5	5.26	1.51
C420F	119.0	5.55	1.79	U220F	119.0	5.55	1.79
C420F5	119.0	5.55	1.79	U220F5	119.0	5.55	1.79
C420P	119.0	5.55	1.79	U240Z	118.5	5.26	1.51
C421A5	119.0	5.55	1.79	U240Z5	118.5	5.26	1.51
C421F	119.0	5.55	1.79	U241Z	118.5	5.26	1.51
C421F5	119.0	5.55	1.79	U251A5	118.5	5.26	1.51
C425F	119.0	5.55	1.79	U251F	118.5	5.26	1.51
C425F5	119.0	5.55	1.79	U255F	119.0	5.55	1.79
C430M	119.0	5.55	1.79	U255F5	119.0	5.55	1.79
C430Z	119.0	5.55	1.79	U381F	118.5	5.26	1.51
C440U	119.0	5.55	1.79	U381F2	118.5	5.26	1.51
C440Z	119.0	5.55	1.79	U381K2	118.5	5.26	1.51
C441M	119.0	5.55	1.79	U610F	118.5	5.26	1.51
C441Z	118.6	5.32	1.56	U631F	118.5	5.26	1.51
C441Z5	118.6	5.32	1.56	U640F	118.5	5.26	1.51
C445F*	119.0	5.55	1.79	U640F2	118.5	5.26	1.51
C450FC	118.5	5.26	1.51	U640F5	118.5	5.26	1.51
C451F	119.0	5.55	1.79	U641M	118.5	5.26	1.51
C451F5	119.0	5.55	1.79	U940A	119.0	5.55	1.79
C455A5	119.0	5.55	1.79	UV31A	117.0	4.38	0.66
C455B	117.0	4.38	0.66	UV31A2	117.0	4.38	0.66

*Discontinued

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Model Name	A-Constant	ACD	Surgeon Factor	Model Name	A-Constant	ACD	Surgeon Factor
Mentor/ORC, con't				21D	118.1	5.02	1.28
UV31F4	117.0	4.38	0.66	21L	117.7	4.79	1.05
UV31K4	117.0	4.38	0.66	21S	117.1	4.44	0.71
UV31KD	117.0	4.38	0.66	22	118.1	5.02	1.28
UV40A	117.0	4.38	0.66	22B	118.1	5.02	1.28
UV40A2	117.0	4.38	0.66	22C	117.1	4.44	0.71
UV40F	117.0	4.38	0.66	22D	118.1	5.02	1.28
UV40J	117.0	4.38	0.66	22E	117.1	4.44	0.71
UV41F	117.0	4.38	0.66	22F	118.1	5.02	1.28
UV41F2	117.0	4.38	0.66	22L	118.1	5.02	1.28
UV41K	117.0	4.38	0.66	22S	118.1	5.02	1.28
UV51K2	117.0	4.38	0.66	23B	118.1	5.02	1.28
UV51K4	117.0	4.38	0.66	23D	118.1	5.02	1.28
UV60A	117.0	4.38	0.66	25	118.1	5.02	1.28
UV61F	117.0	4.38	0.66	25A	118.1	5.02	1.28
UV61F4	117.0	4.38	0.66	25L	118.1	5.02	1.28
UV61KN	117.0	4.38	0.66	25S	119.0	5.55	1.79
UV71F2	117.0	4.38	0.66	26-1	118.1	5.02	1.28
UV71F4	117.0	4.38	0.66	26-2	117.6	4.73	1.00
UV71K	117.0	4.38	0.66	26-3	117.6	4.73	1.00
UV71K3	117.0	4.38	0.66	26A	118.1	5.02	1.28
UV71K4	117.0	4.38	0.66	26B	117.6	4.73	1.00
UV80F	117.0	4.38	0.66	26L-1	118.1	5.02	1.28
UV80F2	117.0	4.38	0.66	26L-2	117.6	4.73	1.00
UV81K	117.0	4.38	0.66	26L-3	117.1	4.44	0.71
UV81K3	117.0	4.38	0.66	27-1	118.1	5.02	1.28
UV81M	117.0	4.38	0.66	27-2	117.1	4.44	0.71
Morcher				27A	118.1	5.02	1.28
14	118.5	5.26	1.51	27B*	118.1	5.02	1.28
14A	118.5	5.26	1.51	27C	118.1	5.02	1.28
14C	118.5	5.26	1.51	27C-1	118.1	5.02	1.28
15	118.1	5.02	1.28	27C-2	117.1	4.44	0.71
16C	117.6	4.73	1.00	27D	118.1	5.02	1.28
18A	118.1	5.02	1.28	27E*	118.1	5.02	1.28
18L	118.1	5.02	1.28	27F*	119.0	5.55	1.79
1A	115.6	3.56	-0.14	27G*	119.0	5.55	1.79
1E	118.5	5.26	1.51	27S	118.1	5.02	1.28
1L	118.5	5.26	1.51	28	118.1	5.02	1.28
20	115.2	3.33	-0.36	28A*	118.1	5.02	1.28
20A	115.2	3.33	-0.36	28C*	119.0	5.55	1.79
21B	118.1	5.02	1.28	28D*	119.0	5.55	1.79

*Discontinued

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Model Name	A-Constant	ACD	Surgeon Factor	Model Name	A-Constant	ACD	Surgeon Factor
Morcher, con't				42C	118.1	5.02	1.28
28E	118.1	5.02	1.28	43	118.1	5.02	1.28
28G*	119.0	5.55	1.79	43E	117.1	4.44	0.71
29A	118.1	5.02	1.28	43F	117.1	4.44	0.71
29B	118.1	5.02	1.28	43S	117.1	4.44	0.71
29C	118.1	5.02	1.28	45-1	118.1	5.02	1.28
2C	118.5	5.26	1.51	45-2	117.6	4.73	1.00
2L	118.5	5.26	1.51	45A	118.1	5.02	1.28
30A	117.6	4.73	1.00	45B	118.1	5.02	1.28
32C	118.1	5.02	1.28	45S-1	118.1	5.02	1.28
33	117.1	4.44	0.71	45S-2	117.6	4.73	1.00
33A	118.1	5.02	1.28	46	114.6	2.98	-0.70
33B-1	118.1	5.02	1.28	46S	114.6	2.98	-0.70
33B-2	117.6	4.73	1.00	48A	118.1	5.02	1.28
33C-1	120.0	6.13	2.36	48C-1	118.1	5.02	1.28
33C-2	120.0	6.13	2.36	48C-2	117.6	4.73	1.00
33L	118.1	5.02	1.28	48D	119.0	5.55	1.79
33S	118.1	5.02	1.28	48F	118.1	5.02	1.28
34	117.5	4.67	0.94	48S	118.1	5.02	1.28
34A	118.1	5.02	1.28	50C	118.5	5.26	1.51
34L	118.1	5.02	1.28	51-1	118.1	5.02	1.28
34S	118.1	5.02	1.28	51-2	117.6	4.73	1.00
35	117.5	4.67	0.94	51A-1	118.1	5.02	1.28
35L	118.1	5.02	1.28	51A-2	117.6	4.73	1.00
35S	118.1	5.02	1.28	51L-1	118.1	5.02	1.28
36-1	118.1	5.02	1.28	51L-2	117.6	4.73	1.00
36-2	117.6	4.73	1.00	52A	119.1	5.61	1.85
36A-1	118.1	5.02	1.28	53*	118.1	5.02	1.28
36A-2	117.6	4.73	1.00	53-1	118.1	5.02	1.28
36B-1	118.1	5.02	1.28	53-2	117.6	4.73	1.00
36B-2	117.6	4.73	1.00	53A-1	118.1	5.02	1.28
36E	118.1	5.02	1.28	53A-2	117.6	4.73	1.00
36L	118.1	5.02	1.28	53C-1	118.1	5.02	1.28
36S	118.1	5.02	1.28	53C-2	117.6	4.73	1.00
37	117.6	4.73	1.00	53E	118.1	5.02	1.28
38	114.6	2.98	-0.70	53E-2	117.6	4.73	1.00
38A	114.6	2.98	-0.70	53G	119.0	5.55	1.79
38B	114.6	2.98	-0.70	53L-1	118.1	5.02	1.28
39	114.6	2.98	-0.70	53L-2	117.6	4.73	1.00
39C	114.6	2.98	-0.70	53S	118.1	5.02	1.28
39D	114.6	2.98	-0.70	54-1	114.6	2.98	-0.70

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Model Name	A-Constant	ACD	Surgeon Factor	Model Name	A-Constant	ACD	Surgeon Factor
Morcher, con't				65C-2	117.6	4.73	1.00
54-2	114.6	2.98	-0.70	65D-1	118.1	5.02	1.28
54A-1	114.6	2.98	-0.70	65D-2	117.6	4.73	1.00
54A-2	114.6	2.98	-0.70	65E-1	118.1	5.02	1.28
54B-1	114.6	2.98	-0.70	65E-2	117.6	4.73	1.00
54B-2	114.6	2.98	-0.70	65F-1	118.1	5.02	1.28
54C-1	114.6	2.98	-0.70	65F-2	117.6	4.73	1.00
54C-2	114.6	2.98	-0.70	65G-1	118.1	5.02	1.28
54D-1	114.6	2.98	-0.70	65G-2	117.6	4.73	1.00
54D-2	114.6	2.98	-0.70	65S-1	118.1	5.02	1.28
54E	114.6	2.98	-0.70	65S-2	117.6	4.73	1.00
54G	114.6	2.98	-0.70	66-1	118.1	5.02	1.28
54L	114.6	2.98	-0.70	66-2	117.6	4.73	1.00
55	118.1	5.02	1.28	66B	117.6	4.73	1.00
55A	118.1	5.02	1.28	67-1	118.1	5.02	1.28
55S	114.6	2.98	-0.70	67-2	118.1	5.02	1.28
562D*	120.0	6.13	2.36	67A-1	118.1	5.02	1.28
57	118.1	5.02	1.28	67A-2	118.1	5.02	1.28
57A	118.1	5.02	1.28	67B	118.1	5.02	1.28
57B	118.1	5.02	1.28	67C	118.1	5.02	1.28
58-1	118.1	5.02	1.28	67D	119.0	5.55	1.79
58-2	117.6	4.73	1.00	67E	119.0	5.55	1.79
58B	118.1	5.02	1.28	67F	118.1	5.02	1.28
59B	118.1	5.02	1.28	67G	118.1	5.02	1.28
59C	118.1	5.02	1.28	67L	118.1	5.02	1.28
59D	118.1	5.02	1.28	67S	118.1	5.02	1.28
59E	118.1	5.02	1.28	68	118.1	5.02	1.28
5S	115.9	3.74	0.03	68A	118.1	5.02	1.28
61E4.5*	114.6	2.98	-0.70	68B	118.1	5.02	1.28
61E5.5	114.6	2.98	-0.70	68C	118.1	5.02	1.28
61F4.5*	114.6	2.98	-0.70	70	117.1	4.44	0.71
61F5.5	114.6	2.98	-0.70	70L	117.1	4.44	0.71
62A	120.0	6.13	2.36	71A	118.1	5.02	1.28
62C	120.0	6.13	2.36	71B	118.1	5.02	1.28
62D	120.0	6.13	2.36	71C	118.1	5.02	1.28
62E	120.0	6.13	2.36	71D	119.0	5.55	1.79
63	118.1	5.02	1.28	71L	118.1	5.02	1.28
65A	118.1	5.02	1.28	71S	118.1	5.02	1.28
65B-1	118.1	5.02	1.28	73	118.1	5.02	1.28
65B-2	117.6	4.73	1.00	73A	118.1	5.02	1.28
65C-1	118.1	5.02	1.28	75A	118.5	5.26	1.51

*Discontinued

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Model Name	A-Constant	ACD	Surgeon Factor	Model Name	A-Constant	ACD	Surgeon Factor
Morcher, con't				88B	118.1	5.02	1.28
76B-1	118.1	5.02	1.28	88D	118.0	4.97	1.22
76B-2	117.6	4.73	1.00	8C	118.1	5.02	1.28
76C	120.0	6.13	2.36	8F	118.1	5.02	1.28
76L	118.1	5.02	1.28	92S-1	119.1	5.61	1.85
77L	118.1	5.02	1.28	92S-2	118.1	5.02	1.28
78-1	118.1	5.02	1.28	94	118.1	5.02	1.28
78-2	117.6	4.73	1.00	94A	118.1	5.02	1.28
78B	118.1	5.02	1.28	94B	118.1	5.02	1.28
78L-1	118.1	5.02	1.28	95S	119.1	5.61	1.85
78L-2	117.6	4.73	1.00	96G	118.5	5.26	1.51
79L	118.1	5.02	1.28	96L*	118.5	5.26	1.51
7C	117.6	4.73	1.00	97C	118.1	5.02	1.28
7D	118.7	5.37	1.62	O.I.I., Inc.			
7G	118.1	5.02	1.28	RS-50B	118.1	5.02	1.28
7L	118.1	5.02	1.28	RS-55B	118.4	5.20	1.45
80E	119.0	5.55	1.79	RS-60B	118.3	5.14	1.39
81-1	118.1	5.02	1.28	RS-65	118.4	5.20	1.45
81-2	117.6	4.73	1.00	OPHTEC			
81A	118.1	5.02	1.28	275	118.0	4.97	1.22
81B-1	119.0	5.55	1.79	276	118.0	4.97	1.22
81B-2	117.6	4.73	1.00	AC260	114.2	2.75	-0.93
81C	117.6	4.73	1.00	AC261	114.2	2.75	-0.93
81D	118.1	5.02	1.28	Artisan 203	115.6	3.56	-0.14
81E-1	119.0	5.55	1.79	Artisan 204	115.6	3.56	-0.14
81E-2	118.5	5.26	1.51	Artisan 205	115.6	3.56	-0.14
81L-1	118.1	5.02	1.28	Artisan 206	115.6	3.56	-0.14
81L-2	117.6	4.73	1.00	PC215	116.8	4.27	0.54
81S	118.1	5.02	1.28	PC242	118.0	4.97	1.22
82B	118.1	5.02	1.28	PC264	118.0	4.97	1.22
82L	118.1	5.02	1.28	PC265	118.0	4.97	1.22
83-1	118.1	5.02	1.28	PC267	118.5	5.26	1.51
83-2	117.6	4.73	1.00	PC279	118.5	5.26	1.51
83A	118.1	5.02	1.28	PC283	118.5	5.26	1.51
83C	118.1	5.02	1.28	PC284	118.0	4.97	1.22
85A	118.5	5.26	1.51	PC285	118.5	5.26	1.51
85C	118.1	5.02	1.28	PC287	118.5	5.26	1.51
85D	118.1	5.02	1.28	PC288	118.2	5.08	1.34
85E	118.1	5.02	1.28	PC289	118.0	4.97	1.22
88	118.1	5.02	1.28	PC292	118.5	5.26	1.51
88A	118.1	5.02	1.28	PC295	118.5	5.26	1.51

*Discontinued

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Model Name	A-Constant	ACD	Surgeon Factor	Model Name	A-Constant	ACD	Surgeon Factor
OPHTEC, con't				809F*	117.9	4.91	1.17
PC410Y	117.5	4.67	0.94	810F	118.6	5.32	1.56
Ophthalmed				811A	117.7	4.79	1.05
ACRL-C160	118.2	5.08	1.34	811C	117.7	4.79	1.05
OMAC-260	114.5	2.92	-0.76	812B	117.9	4.91	1.17
OMAC-260A	114.5	2.92	-0.76	812C	117.9	4.91	1.17
OMC-160A	118.3	5.14	1.39	813N*	117.7	4.79	1.05
OMC-165	118.3	5.14	1.39	814A*	117.8	4.85	1.11
OMC-1652	118.3	5.14	1.39	815A*	118.3	5.14	1.39
OMC-165A	118.3	5.14	1.39	820A*	118.5	5.26	1.51
OMC-170	118.3	5.14	1.39	911A	118.3	5.14	1.39
OMC-324B	118.5	5.26	1.51	912	117.8	4.85	1.11
OMJ-310B	118.5	5.26	1.51	920	118.6	5.32	1.56
OMJ-312B	118.5	5.26	1.51	UV65A	114.6	2.98	-0.70
OML-160	118.0	4.97	1.22	UV65B	114.6	2.98	-0.70
OMPJ-312B	116.5	4.09	0.37	UV65C	114.6	2.98	-0.70
OMS-150B	118.0	4.97	1.22	PhysIOL			
OMS-155B	118.0	4.97	1.22	Comp Disk	118.4	5.20	1.45
OMS-160A	118.3	5.14	1.39	Hydriol 28 A-F	117.5	4.67	0.94
OMS-165A	118.3	5.14	1.39	Hydriol 60 C-F	118.0	4.97	1.22
OMS-165A2	118.3	5.14	1.39	Hydriol FLEX-F	118.0	4.97	1.22
OMSI-150A	118.3	5.14	1.39	Phaco R1	118.4	5.20	1.45
OMSI-150B	118.0	4.97	1.22	Phaco S	118.4	5.20	1.45
OMSI-150C	118.0	4.97	1.22	Sigma 6	117.9	4.91	1.17
OMSI-155	118.3	5.14	1.39	T 12	118.0	4.97	1.22
OMSI-155B	118.0	4.97	1.22	T 13	118.0	4.97	1.22
OMSI-155C	118.0	4.97	1.22	Zeta	114.2	2.75	-0.93
OMSI-165B	118.0	4.97	1.22	Rayner			
Sil-C160	118.2	5.08	1.34	150U	118.0	4.97	1.22
Pharmacia				208U	118.0	4.97	1.22
720*	118.4	5.20	1.45	230U	118.0	4.97	1.22
722C	118.8	5.43	1.68	235U	118.0	4.97	1.22
722D*	118.4	5.20	1.45	237U	118.0	4.97	1.22
722Y	118.3	5.14	1.39	270U	118.0	4.97	1.22
726A*	118.6	5.32	1.56	272U	118.0	4.97	1.22
727A	116.7	4.21	0.49	274U	118.0	4.97	1.22
727C	116.7	4.21	0.49	320U*	118.0	4.97	1.22
730A*	118.8	5.43	1.68	510A	118.0	4.97	1.22
734A*	116.9	4.32	0.60	517A	117.5	4.67	0.94
777A*	117.7	4.79	1.05	552A	117.5	4.67	0.94
809C	117.9	4.91	1.17	570H	118.0	4.97	1.22

*Discontinued

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Model Name	A-Constant	ACD	Surgeon Factor	Model Name	A-Constant	ACD	Surgeon Factor
Rayner, con't				5BUV20-24	118.2	5.08	1.34
574R	118.0	4.97	1.22	6.5BUV20-24	118.1	5.02	1.28
576R	118.0	4.97	1.22	6BUV20-20	118.2	5.08	1.34
604A	118.0	4.97	1.22	6BUV20-24	118.2	5.08	1.34
645A	118.0	4.97	1.22	7BUV20-24	118.0	4.97	1.22
700U	118.0	4.97	1.22	ACU44*	114.6	2.98	-0.70
702U	118.0	4.97	1.22	BNUV20-20*	118.2	5.08	1.34
752U	118.0	4.97	1.22	LMUV20-20*	116.8	4.27	0.54
755U	118.0	4.97	1.22	LMUV20-24*	116.8	4.27	0.54
850U*	118.7	5.37	1.62	LRUV20-24*	116.2	3.91	0.20
870U12.0	116.0	3.80	0.09	PCUB25	118.7	5.37	1.62
870U12.5	116.0	3.80	0.09	PCUB26*	118.0	4.97	1.22
870U13.0	116.0	3.80	0.09	PCUB29	118.1	5.02	1.28
870U13.5	116.0	3.80	0.09	PCUB30	118.2	5.08	1.34
870U14.0	116.0	3.80	0.09	PCUB30S	118.2	5.08	1.34
Staar Surgical				PCUB32	118.2	5.08	1.34
AA-4203	118.5	5.26	1.51	PCUB32S	118.2	5.08	1.34
AA-4203T	118.5	5.26	1.51	SBUV2-23*	118.0	4.97	1.22
AA-4203TF	118.5	5.26	1.51	UV20-20*	116.8	4.27	0.54
AA-4203TL	118.5	5.26	1.51	UV20-24*	116.8	4.27	0.54
AA-4203V	118.5	5.26	1.51	US IOL			
AA-4203VF	118.5	5.26	1.51	101 UV2	116.4	4.03	0.32
AA-4204VF	118.5	5.26	1.51	107 UV2	116.9	4.32	0.60
AA-4204VL	118.5	5.26	1.51	201 UV2	116.4	4.03	0.32
AA-4207VF	118.5	5.26	1.51	540 UV2	118.5	5.26	1.51
AQ-1016	119.0	5.55	1.79	601 UV	115.3	3.39	-0.31
AQ-1016V	119.0	5.55	1.79	618 UV	118.2	5.08	1.34
AQ-2003	118.5	5.26	1.51	628 UV	118.2	5.08	1.34
AQ-2003V	118.5	5.26	1.51	630 UV	118.4	5.20	1.45
AQ-2010V	119.0	5.55	1.79	640 UV2	118.5	5.26	1.51
AQ-2013	119.0	5.55	1.79	649 UV2	118.5	5.26	1.51
AQ-2013V	119.0	5.55	1.79	651 UV	117.5	4.67	0.94
AQ-2017V	119.0	5.55	1.79	660 UV	118.0	4.97	1.22
AQ-5010V	119.0	5.55	1.79	679 UV2	118.0	4.97	1.22
CC4203VF	119.0	5.55	1.79	830 UV	118.5	5.26	1.51
CC-4204BF	119.0	5.55	1.79	835 UV	118.5	5.26	1.51
CQ-2005V	118.5	5.26	1.51	B101 UV2	118.5	5.26	1.51
Fyodorov1*	116.5	4.09	0.37	B107 UV2	117.5	4.67	0.94
Surgidev				B201 UV2	118.5	5.26	1.51
5.5BUV20-24	118.2	5.08	1.34	VISIONAL			
5BNUV20-24	117.6	4.73	1.00	CL 575	120.2	6.25	2.47

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Model Name	A-Constant	ACD	Surgeon Factor
VISIONAL, con't			
IN 60	120.2	6.25	2.47
RBAG	120.2	6.25	2.47
VisionCare			
IMT2.2X	118.0	4.97	1.22
IMT3X	118.0	4.97	1.22

ACD = anterior chamber depth