

TABLE 16
Would Want to Have Lens(es) Removed and Replaced due to Visual Symptoms or Other Problems with Vision at 6 Months

		Symptomatic N=147		Monofocal N=148	
		n	%	n	%
Lens removed and replaced	Yes	3*	2.1	0	0.0
	No	119	81.0	108	73.0
	NA	23	15.6	27	18.2

*NA=Not Applicable, did not experience any visual symptoms.
*One Symptomatic subject (0.7%, 1/147) and one monofocal subject (0.7%, 1/148) indicated a desire to have the lenses removed/replaced and the investigator determined the subject responses to be related to optical lens design, i.e., a potential secondary surgical intervention.
*NA=NOT APPlicable, did not experience any visual symptoms.

TABLE 17
Mean Cylinder and Percent Reduction in Cylinder at Six Months
First Eyes* - Randomized Control Arm and Open Label Arm

VARIABLE	Randomized Control Arm				Open Label Arm				P-Value
	Lens Model	N*	Mean	Std. Dev.	Lens Model	N*	Mean	Std. Dev.	
Phorokeratometric Cylinder (Kcyl, D)									N/A
Target Refractive Cylinder (D)	Control	91	1.11	0.24	0.3436	Pooled	70	2.16	0.68
	ZCT1150	101	1.08	0.28	ZCT1225	17	1.58	0.28	N/A
					ZCT300	24	1.91	0.46	
Refractive Cylinder (D)	Control	91	0.26	0.18	0.0267	Pooled	70	0.26	0.30
	ZCT1150	101	0.25	0.17	ZCT1225	17	0.12	0.10	N/A
					ZCT300	24	0.19	0.12	
Percent Cylinder Reduction*	Control	91	0.85	0.57	<0.0001	Pooled	70	0.67	0.47
	ZCT1150	101	0.45	0.41	ZCT1225	17	0.49	0.37	N/A
					ZCT300	24	0.62	0.43	
Percent Cylinder Reduction*	Control	91	31.61	78.73	<0.0001	Pooled	70	76.27	33.09
	ZCT1150	101	74.53	72.25	ZCT1225	17	73.78	27.17	N/A
					ZCT300	24	72.03	38.57	

* Eyes with both preoperative and postoperative data.
* Present Refractive ANSI Formula/Preop Ref. Cyl. minus Postop Ref. Cyl. minus Preop K. Cyl. (Y)Target Ref. Cyl. minus Preop K. Cyl.) ANSI formula used except for a few eyes in the RGA with very small denominators (within 0.01); for these eyes the ANSI formula was used but without the target value.
* Variance OLA target of 25% reduction.

TABLE 18
Absolute Difference between Refractive Cylinder at Six Months vs. Target
First Eyes - Randomized Control Arm and Open Label Arm

Diopter Group	Randomized Control Arm				Open Label Arm				All Toric Eyes ZCT150, ZCT225, ZCT300, ZCT400
	n	%	n	%	n	%	n	%	
>2.0	0	0.0	0	0.0	0	0.0	0	0.0	0.0
1.51-2.00	1	1.0	6	6.8	2	2.8	3	3.3	1.5
1.01-1.50	5	5.0	21	23.1	9	12.9	14	16.2	8.2
0.51-1.00	95	94.1	64	68.3	59	84.3	154	99.9	98.9
0.01-0.50	22	21.8	19	20.9	22	31.4	44	25.7	25.7
Total	121	73.23	45	49.5	37	52.9	110	64.3	
Not Reported	101	100.0	91	100.0	70	100.0	171	100.0	

* As control eyes had <1.0 D of preoperative Kcyl only, results for all toric eyes pooled are not to be compared to control values.

Table 19
Achieved Cylinder Reduction as a Percentage of Intended Reduction
(Percent Reduction in Cylinder ANSI formula)
at 6 Months Stratified by Keratometric Cylinder
First Eyes Randomized Control Arm ZCT150 and ZC800

Model	Preoperative Keratometric Cylinder (D)		Percent Reduction in Cylinder (ANSI)*		Predicted Keratometric Cylinder (D) (Preop Kcyl + SA)		Percent Reduction in Cylinder (ANSI)*	
	N	Mean	N	Mean	N	Mean	N	Mean
ZC800	678	4	45.28	66.31	678	13	42.28	138.54
ZCT1150	5	79.77	51.59	16	78.20	122.83		
ZC800	0.75-0.99	22	35.32	111.09	22	7.29	48.81	
ZCT1150	30	89.20	87.63	31	55.38	58.67		
ZC800	1.00-1.24	34	41.06	68.61	1.00-1.24	31	43.44	39.77
ZCT1150	22	86.46	82.69	38	81.88	49.80		
ZC800	1.25-1.49	27	32.31	60.59	1.25-1.49	29	45.59	73.00
ZCT1150	22	74.82	45.76	28	100.37	62.21		
ZC800	>1.50	4	19.43	17.23	>1.50	4	118.57	50.01
ZCT1150	8	99.88	32.32	8	139.43	31.88		
ZC800	All	91	31.61	78.73	All	91	31.61	78.73
ZCT1150	All	101	74.53	72.25	All	101	74.53	72.25

* Percent Cylinder Reduction (ANSI Formula)/Preop Ref. Cyl. minus Postop Ref. Cyl. minus Preop Kcyl. Percent cylinder reduction (ANSI formula) adjusted for eyes (3) with small denominators (<0.10), where target value was not used.
* Predicted keratometric cylinder is the vector combination of preoperative keratometric cylinder (magnitude and axis), estimated SA, and incision axis.

Table 20
Residual Refractive Cylinder at 6 Months Stratified by Keratometric Cylinder
First Eyes Randomized Control Arm ZCT150 and ZC800

Model	Preoperative Keratometric Cylinder (D)		Residual Refractive Cylinder (D)		Predicted Keratometric Cylinder (D) (Preop Kcyl + SA)		Residual Refractive Cylinder (D)	
	N	Mean	Std. Dev.		N	Mean	Std. Dev.	
ZC800	<0.75	5	0.85	0.42	<0.75	14	0.77	0.49
ZCT1150	5	0.91	0.14		16	0.55	0.43	
ZC800	0.75-0.99	22	0.36	0.00	0.75-0.99	23	0.03	0.51
ZCT1150	30	0.50	0.40		21	0.43	0.33	
ZC800	1.00-1.24	34	0.80	0.10	1.00-1.24	31	1.04	1.68
ZCT1150	38	0.36	0.36		26	0.48	0.45	
ZC800	1.25-1.49	27	1.09	0.69	1.25-1.49	21	0.84	0.32
ZCT1150	32	0.49	0.49		28	0.39	0.43	
ZC800	>1.50	5	1.35	0.28	>1.50	4	0.43	0.42
ZCT1150	6	1.04	0.14		5	0.64	0.44	
ZC800	All	93	0.86	0.57	All	93	0.86	0.57
ZCT1150	All	101	0.45	0.41	All	101	0.45	0.41

* Predicted keratometric cylinder is the vector combination of preoperative keratometric cylinder (magnitude and axis), estimated SA, and incision axis.

Table 21
Change in Absolute Cylinder* at Six Months Stratified by Keratometric Cylinder
First Eyes Randomized Control Arm ZCT150 and ZC800

Model	Absolute Cylinder					Absolute Cylinder						
	Reduction +0.50 D or more	N	Change +0.50 D or more	Increase +0.50 D or more	%	Reduction +0.50 D or more	N	Change +0.50 D or more	Increase +0.50 D or more	%		
	Preoperative Keratometric Cylinder (D)					Predicted Postoperative Keratometric Cylinder (D) (Pach II, SA)						
ZC800	<0.75	5	0	0	4 80.00	1 20.0	<0.75	14	2	14.29	10 71.43	2 14.29
ZCT1150	0	0	0	0	4 80.00	1 20.0	0	0	0	4 80.00	1 20.0	0 0.00
ZC800	0.75-0.99	22	3	31.82	13 59.09	2 9.09	0.75-0.99	31	2	6.45	18 58.06	3 9.68
ZCT1150	1.00-1.24	34	12	35.29	15 55.88	3 8.88	1.00-1.24	31	3	9.68	17 54.84	2 6.45
ZCT150	38	29	76.32	9 23.68	0 0.00	0 0.00	38	22	57.89	14 36.89	0 0.00	
ZC800	1.25-1.49	27	9	33.33	18 66.66	2 7.41	1.25-1.49	26	11	42.31	13 50.00	1 3.85
ZCT1150	22	18	81.82	4 18.18	0 0.00	0 0.00	26	20	76.92	7 26.92	0 0.00	
ZC800	>1.50	5	1	20.00	4 80.00	0 0.00	>1.50	5	0	0.00	4 80.00	0 0.00
ZCT1150	6	4	66.67	0 0.00	0 0.00	0 0.00	6	2	33.33	0 0.00	0 0.00	
ZC800	All	93	29	31.18	56 60.22	8 8.60	All	92	29	31.52	56 60.87	2 2.17
ZCT1150	All	101	63	62.38	38 35.64	2 1.98	All	92	53	57.61	39 42.39	0 0.00

* Change in Absolute Cylinder/Preop Ref. Cyl. minus Postop Ref. Cyl.
* Not all eyes were targeted for a reduction in absolute cylinder greater than 0.50 D; therefore, some eyes that achieved the intended cylinder change will be included in the <0.50 D column.
* Predicted keratometric cylinder is the vector combination of preoperative keratometric cylinder (magnitude and axis), estimated SA, and incision axis.

TABLE 22
Absolute Difference in Axis Alignment between 1 Day and 6 Months
First Eyes - All Toric ZCT150, ZCT225, ZCT300, ZCT400 Pooled

Axis Shift (degrees)	Toric Eyes: Consistent Cases* 1 Month vs. 3 Months				Toric Eyes with Data at Two or More Visits* 1 Month vs. 3 Months vs. 6 Months			
	n	%	n	%	n	%	n	%
>30	0	0.0	0	0.0	0	0.0	0	0.0
16-30	0	0.0	0	0.0	0	0.0	0	0.0
10-15	2	1.4	3	2.0	2	1.3	3	2.0
<10	146	98.6	145	98.0	154	98.7	149	98.0
<5	9	6.1	6	4.1	9	5.8	6	3.9
<0.5	137	92.4*	139	93.9*	145	92.9*	143	94.1*
Total	148	100.0	148	100.0	156	100.0	153	100.0

* Eyes with photographic axis data at all visits through six months.
* Eyes with photographic axis data at two or more consecutive visits but not necessarily all visits.
* Results achieved the ANSI Standard for Toric IOLs (200.20 rotational stability requirements (>90% of eyes having <5° axis change between consecutive visits approximately three months apart).

TABLE 23
Absolute Difference in Axis Alignment between 1 Day and 6 Months
First Eyes - All Toric ZCT150, ZCT225, ZCT300, ZCT400 Pooled

Axis Shift (degrees)	Toric Eyes: Consistent Cases* 1 Day vs. 6 Months				Toric Eyes with Data at One Day and Six Months			
	n	%	n	%	n	%	n	%
>30	2*	1.4	2*	1.3				
16-30	2*	1.4	2*	1.3				
10-15	0	0.0	0	0.0				
<10	143	98.6	151	98.8				
<5	4	2.7	4	2.6				
<0.5	139	93.9	147	96.2				
Total	148	100.0	156	100.0				

* Eyes with photographic axis data at all visits through six months.
* Two ZCT400 eyes with calculated rotation of 40° and 45° underwent repositioning procedures.
* Two ZCT300 eyes with calculated rotation of 18° and 21° underwent repositioning procedures.
* One ZCT150 eye with calculated lens rotation 24° was not repositioned.

TABLE 24
Mean Change in Axis
Difference Taking Direction into Account (+/- Sign Included)
and Degree Shift Regardless of Direction (Absolute Value)
First Eyes - All Toric ZCT150, ZCT225, ZCT300, ZCT400 Pooled

		Toric Eyes: Consistent Cases* 1 Month vs. 3 Months				Toric Eyes with Data at Two or More Visits* 1 Month vs. 3 Months vs. 6 Months			
		N	MEAN (degrees)	STD. DEV.	N	MEAN (degrees)	STD. DEV.	N	MEAN (degrees)
Change in Axis between Visits	1 Mon. vs. 3 Mon.	148	0.24	2.82	156	0.25	2.77		
	3 Mon. vs. 6 Mon.	148	-0.06	2.94	152	-0.09	2.96		
	Baseline (1 Day) vs. 6 Mon.	148	-1.35	6.13	156	-1.33	5.89		
Absolute Value	Abs. Value-1 Mon. vs. 3 Mon.	148	1.82	2.17	156	1.79	2.12		
	Abs. Value-3 Mon. vs. 6 Mon.	148	1.65	2.28	152	1.69	2.27		
	Abs. Value-Baseline (1 Day) vs. 6 Mon.	148	2.74	5.65	156	2.70	5.51		

* Eyes with photographic axis data at all visits through six months.
* Eyes with photographic axis data at two or more visits but not necessarily all visits.

TABLE 26
Degree of Bother/Trouble with Key Ocular/Visual Symptoms at 6 Months
Bilateral Subjects* in the Randomized Control Arm and the Open Label Arm

During the past month, how bothered have you been by the following, using the scale in the figure?							
	Randomized Control Arm ZC800 N=72	Randomized Control Arm N=78	Open Label Arm ZCT150 N=123	Open Label Arm ZCT225 N=123	Open Label Arm ZCT300 N=123	Open Label Arm ZCT400 N=123	All Toric Subjects N=493
Changes in your vision during the day	No trouble at all	93.1%	80.8%	94.1%	87.0%	89.9%	
	Moderate trouble	5.8%	15.2%	5.8%	11.1%	7.7%	
	Severe trouble	1.4%	0.0%	0.0%	1.9%	1.4%	
Glare (reflections off shiny surfaces, snow)	No trouble at all	88.1%	80.0%	88.8%	51.9%	68.8%	
	Moderate trouble	22.2%	20.3%	29.4%	27.8%	25.2%	
	Severe trouble	9.7%	14.1%	5.9%	20.4%	13.3%	
Things looking different out of one eye vs. the other	No trouble at all	84.7%	70.5%	100.0%	70.4%	81.1%	
	Moderate trouble	12.5%	19.2%	0.0%	18.0%	13.3%	
	Severe trouble	2.8%	9.0%	0.0%	7.4%	4.2%	
Seeing in dim light	No trouble at all	84.7%	65.4%	70.6%	63.0%	74.6%	
	Moderate trouble	15.3%	28.5%	23.6%	22.2%	18.6%	
	Severe trouble	0.0%	5.1%	5.9%	13.0%	6.8%	
Your depth perception	No trouble at all	88.6%	85.9%	82.4%	60.7%	93.7%	
	Moderate trouble	1.4%	16.3%	17.8%	5.6%	4.9%	
	Severe trouble	0.0%	2.6%	0.0%	3.7%	1.4%	
Things appearing distorted	No trouble at all	87.2%	93.6%	94.1%	96.3%	96.5%	
	Moderate trouble	1.4%	1.3%	0.0%	3.7%	3.1%	
	Severe trouble	0.0%	0.0%	0.0%	0.0%	0.0%	
Judging distance when going up or down steps (stairs, curbs)	No trouble at all	90.3%	87.2%	100.0%	88.9%	90.9%	
	Moderate trouble	8.3%	12.9%	0.0%	9.3%	7.7%	
	Severe trouble	1.4%	2.6%	0.0%	1.9%	1.4%	
Objects appearing flat	No trouble at all	100.0%	98.7%	100.0%	98.1%	99.3%	
	Moderate trouble	0.0%	1.3%	0.0%	0.0%	0.0%	
	Severe trouble	0.0%	0.0%	0.0%	0.0%	0.0%	
Flat or far surfaces seeming curved	No trouble at all	97.2%	100.0%	100.0%	98.1%	97.9%	
	Moderate trouble	2.8%	0.0%	0.0%	1.9%	2.1%	
	Severe trouble	0.0%	0.0%	0.0%	0.0%	0.0%	