Index		value	tolerance	RMS spot radius
	Lens 1			
1	Radius 1 (mm)	622	0.15	0.000730
2	Surface 1 (pow/irreg over TP)		.5 / .25	0.001089
3	thickness (mm)	45	0.1	0.000600
4	Radius 2 (mm)	813	0.3	0.000743
5	Surface 2 (waves/cm)		0.025	0.000757
6	wedge(um)		50	0.000669
7	tilt (um)		50	0.000245
8	decenter (mm)		0.1	0.000300
9	index	1.458464	0.0001	0.000190
10	Index homogeneity (Herasil 3)		1.00E-05	0.001027
11	spacing (mm)	434.8	0.3	0.001210
	Lens 2			
12	Radius 1 (mm)	1130.3	1	0.000416
13	Surface 1 (pow/irreg over TP)		.5 / .25	0.000899
14	thickness (mm)	14	0.1	0.000380
	Radius 2 (mm)	312.7		
	conic of asphere	-0.246		
15	Surface 2 (waves/cm)		0.2	0.002998
16	Asphere test	(from conjugate tolerances)		0.00081
17	wedge(um)		50	0.000503
18	tilt (um)		50	0.000695
19	decenter (mm)		0.1	0.001023
20	index	1.458464	0.0001	0.000080
21	Index homogeneity (Herasil 3)		1.00E-05	0.000671
22	spacing (mm)	450.8	0.3	0.000270
	Lens 3			
23	Radius 1 (mm)	478.7	0.5	0.000270
24	Surface 1 (pow/irreg over TP)		1 / 0.5	0.001138
25	thickness (mm)	30	0.3	0.000100
26	flatness(fringes/100 mm)		9	0.000100
27	Surface 1 (pow/irreg over TP)		1 / 0.5	0.001138
28	wedge(um)		50	0.000400
29	tilt (um)		50	0.001050
30	decenter (mm)		0.1	0.000680
31	index	1.458564	0.0001	0.000050
32	Index homogeneity (Herasil 3)		1.00E-05	0.000218
	spacing (mm)	200.1	5	
	Filter			
33	thickness	8	4	0.001240
34	Power 1		9 fringes/100 mm	0.000270
35	Surface 1 (pow/irreg over TP)		4 / 2	0.000942
36	power 2		9 fringes/100 mm	0.000270
37	Surface 2 (pow/irreg over TP)		4 / 2	0.000942
38	index inhomogeneity		1.00E-05	0.000024
39	spacing (mm)	16	3	0.000020
	Lens 4			

40	Radius 1 (mm)	2371.73	20	0.000100
41	Surface 1 (pow/irreg)		4 / 2	0.000298
42	thickness (mm)	17.3	0.5	0.000100
43	Power 2 (fringes)		10 fr/100 mm	0.000100
44	Surface 2		8 / 4	0.000167
45	wedge(um)		50	0.000710
46	tilt (um)		200	0.000100
47	decenter (mm)		0.2	0.000370
48	index	1.458464	0.0001	0.000050
49	Index homogeneity (Herasil 2)		6.00E-06	0.000007
50	spacing (mm)	5	1	0.000100
51	CCD tilt (mrad)		0.2	0.001300
	Can1 (filter + Lens 4 + CCD)			
52	axial motion error (mm)		0.01	0.001150
53	rotation (mrad)		0.2	0.001300
54	decenter (mm)		0.5	0.000100
	Can2 (Lens 1, 2, 3)			
55	axial motion error (mm)		0.05	0.001440
56	rotation (mrad)		0.1	0.000970
57	decenter (mm)		0.1	0.000811
	Spider (can1 + can2)			
58	axial motion (mm)		1	0.002210
59	rotation (urad)		50	0.000618
60	decenter (mm)		0.1	0.000815
61	**Nominal design**			0.003567
	RSS			**0.007430**