Lens 1 Radius 1 (mm)	Index		value	tolerance	RMS spot radius	
Radius 1 (mm)		Lens 1				
Surface 1 (pow/irreg over TP)	1		622	0.15	0.000730	
3 thickness (mm) 45 0.1 0.000600 4 Radius 2 (mm) 813 0.3 0.000743 5 Surface 2 (waves/cm) 50 0.000659 6 wedge(um) 50 0.000629 7 tilt (um) 50 0.000207 8 decenter (mm) 0.1 0.000300 9 index 1.458464 0.0001 0.000190 10 Index homogeneity (Herasil 3) 1.00E-05 0.00120 Lens 2			022			
4 Radius 2 (mm) 813 0.3 0.000743 5 Surface 2 (waves/cm) 0.025 0.000776 6 wedge(um) 50 0.000689 7 tilt (um) 50 0.000245 8 decenter (mm) 0.1 0.000309 9 index 1.458464 0.0001 0.0001027 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) 5.7.25 0.000899 14 thickness (mm) 14 0.1 0.000380 Radius 2 (mm) 312.7 -0.246 0.2 0.00298 15 Surface 2 (waves/cm) 0.2 0.00298 0.00081 16 Asphere test (from conjugate tolerances) 0.00081 0.00081 17 wedge(um)		· · · · · · · · · · · · · · · · · · ·	45			
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7 tilt (um) 50 0.000245 8 decenter (mm) 0.1 0.00030 9 index 1.458464 0.0001 0.00030 10 Index homogeneity (Herasil 3) 1.00E-05 0.001027 11 spacing (mm) 434.8 0.3 0.001210 Lens 2 2 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 0.000689 15 Surface 2 (waves/cm) 0.2 0.00298 16 Asphere test (from conjugate tolerances) 0.00081 17 wedge(um) 50 0.000695 18 tilt (um) 50 0.000695 19 decenter (mm) 0.1 0.00102 20 index 1.458464 0.0001 0.00080 21 Index homogeneity (Herasil 3) 1.00E-05 0.000671		, ,				
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10		` ,	1 458464			
Spacing (mm)			1.400404			
Lens 2		ž , , , , , , , , , , , , , , , , , , ,	10.1.0			
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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 0.000695 18 titl (um) 50 0.000695 19 decenter (mm) 0.1 0.001023 20 index 1.458464 0.0001 0.00080 21 Index homogeneity (Herasil 3) 1.00E-05 0.000671 22 spacing (mm) 450.8 0.3 0.000270 Lens 3 3 23 Radius 1 (mm) 478.7 0.5 0.000270 Lens 3 3 23 Radius 1 (mm) 478.7 0.5 0.000270 24 Surface 1 (pow/irreg over TP) 1 / 0.5 0.00123 25 thickness (mm) 30 0.3 0.00100 26 flatness(fringes/100 mm) 9 0.001103 28 wedge(um) 50 0.0011050 29 titl (um) 50<	14	` ,		0.1	0.000380	
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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 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	26	flatness(fringes/100 mm)		9	0.000100	
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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		decenter (mm)		0.1	0.000680	
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Filter 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	32	Index homogeneity (Herasil 3)		1.00E-05	0.000218	
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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	36	power 2		9 fringes/100 mm		
38 index inhomogeneity 1.00E-05 0.000024 39 spacing (mm) 16 3 0.000020						
	38			1.00E-05		
	39	spacing (mm)	16	3	0.000020	
ILens 4		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