

	A	B	C	D	E	F	G	H	I	J	K	L
0	Image									Find a circle		
1	1024.000	1.000	1.000	0.000	950.000		1.000			Image	Row	Col
2	Trigger	Trigger Del	Trigger Inte	Exposure (r	Auto-Expos	Max Expos	Target Image Brightness			Fixture	#ERR	#ERR
3	Continu	0	0	1.300	Disable	950.000	10.000				Row	Col
4		0.000	1.000	1.000	1.000	0.000				Annulus	645.954	401.198
5	Start Row	Number Of	Light Contr	Light Intens	Gain					Tool Enable	Include In J	Edge Contr
6	160	675	Off	0	0		Time			0.000		40
7	1.000		1.000	1.000			01/01/1970 00:01:47.000			Invert	Description	Tool Pass
8	7402	1.000	0.000	0.000	0.000		01/01/1970					0
9	Exposure	352.000	420.000	320.000	440.000		00:01:47.000				CentRow	CentCol
10	Focus	169.118	190.000	659.163	953.333	0.000	0.000			Edges	0.000	0.000
11	Focus Controls			Autofocus (	Focus Posi	Save Focus Position with Job				Point	0.000	0.000
12	Disable	0.000	Autofocu	0	0					Inner	Outer	Result
13						29.394	End			Plot	Plot	Plot
14										0.000	Passes	Failures
15	Find Blob					1	Blob_1			Count	0	0
16	Image	Row	Col	Angle	Composite Region	Calib						
17	Fixture	0.000	0.000	0.000		#ERR	Calib					
18	Area	Row	Col	Grid: Row t	Grid: Col th	Distance fr	Angle (CCV	Angular Distance		Find a circle		
19	Tool Enable	Threshold M	Blob Thres	Blob Color	Boundary	Minimum A	Maximum Area			Image	Row	Col
20	0.000	Manual	14	Black		500.0	800.0			Fixture	#ERR	#ERR
21	Ignore Angl	Sort By	Result	EnabledSta	Include In J	Blobs	Area				Row	Col
22		Area	#ERR	0		#ERR	#ERR			Annulus	709.135	409.146
23	0.000	Tool Pass	Tool Fail	Status	Pass/Fail		OnlineFocus			Tool Enable	Include In J	Edge Contr
24	Focus	0	1	2	1.000	Show Gr	Show Results			0.000		25
25	Hist	0.000	14.000	0.000	Blobs	Blobs		-1.000		Invert	Description	Tool Pass
26	Description	Row	Col	Angle	0.000	Blob_1	ErrorString					0
27		#ERR	#ERR	0.000	#ERR	Plot					CentRow	CentCol
28	#ERR	#ERR	#ERR	#ERR						Edges	0.000	0.000
29	0.000	Passes	Failures	Errors	Total					Point	0.000	0.000
30	Count	0	0	0	0	0.000				Inner	Outer	Result
31							0.278	End		Plot	Plot	Plot
32										0.000	Passes	Failures
33	Find Blob					3	Blob_2			Count	0	0
34	Image	Row	Col	Angle	Composite Region	Calib						
35	Fixture	0.000	0.000	0.000		#ERR	Calib					
36	Area	Row	Col	Grid: Row t	Grid: Col th	Distance fr	Angle (CCV	Angular Distance		Find a circle		
37	Tool Enable	Threshold M	Blob Thres	Blob Color	Boundary	Minimum A	Maximum Area			Image	Row	Col
38	0.000	Manual	25	Black		500.0	800.0			Fixture	#ERR	#ERR
39	Ignore Angl	Sort By	Result	EnabledSta	Include In J	Blobs	Area				Row	Col
40		Area	#ERR	0		#ERR	#ERR			Annulus	286.541	407.054
41	0.000	Tool Pass	Tool Fail	Status	Pass/Fail		OnlineFocus			Tool Enable	Include In J	Edge Contr
42	Focus	0	1	2	1.000	Show Gr	Show Results			0.000		23
43	Hist	0.000	25.000	0.000	Blobs	Blobs		-1.000		Invert	Description	Tool Pass
44	Description	Row	Col	Angle	0.000	Blob_2	ErrorString					0
45		#ERR	#ERR	0.000	#ERR	Plot					CentRow	CentCol
46	#ERR	#ERR	#ERR	#ERR						Edges	0.000	0.000
47	0.000	Passes	Failures	Errors	Total					Point	0.000	0.000
48	Count	0	0	0	0	0.000				Inner	Outer	Result
49							0.254	End		Plot	Plot	Plot
50										0.000	Passes	Failures
51	Find Blob					7	Blob_4			Count	0	0
52	Image	Row	Col	Angle	Composite Region	Calib						
53	Fixture	0.000	0.000	0.000		#ERR	Calib					
54	Area	Row	Col	Grid: Row t	Grid: Col th	Distance fr	Angle (CCV	Angular Distance		Find Blob		
55	Tool Enable	Threshold M	Blob Thres	Blob Color	Boundary	Minimum A	Maximum Area			Image	Row	Col
56	0.000	Manual	70	Black		500.0	800.0			Fixture	0.000	0.000

M	N	O	P	Q	R	S	T	U	V	W	X	
	8	Circle_4				Overall Pass/Fail						
Angle			Calib			0	1	2	#ERR		Reset Cc	
0.000		#ERR	Calib			0.000	1.000	1.000	1.000		<input type="checkbox"/> External	
InnerRadius:OuterRadius						0.000	1.000	1.000	1.000		0.000	
11.235	22.052						Passes	Failures	Errors	Total	0.000	
Edge Trans	Edge Width	Find By	Result			Count	0	1779	0	1779	0	
Dark to M	3	Best Score	Not Present								End	
Tool Fail	Status	Pass/Fail	<input checked="" type="checkbox"/> Show Graphics									
1	2	1.000	<input checked="" type="checkbox"/> Show Results			Draws a pass/fail border around the image						
Radius	Score		EnabledStatus			Pass/Fail	Lines	Offset				
0.000	0.000		0			0.000	Plot	0				
0.000	Point	0.000	0.000				Plot					
			Circle_4				Plot					
		<input type="checkbox"/> OnlineFocus					Plot		End			
Errors	Total	<input type="checkbox"/> Focus										
0	0	0.000				Read the discrete inputs						
		0.284	End			Line	Name	Value	Force	Value w/Fo	Status	
						0.000	Input 0	0.000	None	0.000		
						1.000	Input 1	0.000	None	0.000		
						2.000	Input 2	0.000	None	0.000		
						3.000	Input 3	0.000	None	0.000		
						4.000	Input 4	0.000	None	0.000		
						5.000	Input 5	0.000	None	0.000		
						6.000	Input 6	0.000	None	0.000		
						7.000	Input 7	0.000	None	0.000		
						8.000	Input 8	0.000	None	0.000		
						9.000	Input 9	0.000	None	0.000		
						10.000	Input 10	0.000	None	0.000		
						11.000	Input 11	0.000	None	0.000		
		<input type="checkbox"/> OnlineFocus				Write the discrete outputs						
Errors	Total	<input type="checkbox"/> Focus				Line	Value	Force	Value w/Fo	Status	0.000	
0	0	0.000				0.000	0.000	None	0.000		0.000	
		0.368	End			1.000	0.000	None	0.000		0.000	
						2.000	0.000	None	0.000		0.000	
						3.000	0.000	None	0.000		0.000	
						4.000	0.000	None	0.000		0.000	
						5.000	0.000	None	0.000		0.000	
						6.000	0.000	None	0.000		0.000	
						7.000	0.000	None	0.000		0.000	
						8.000	0.000	None	0.000		0.000	
						9.000	0.000	None	0.000		0.000	
						10.000	0.000	None	0.000		0.000	
						11.000	0.000	None	0.000		0.000	
						12.000	0.000	None	0.000		0.000	
						13.000	0.000	None	0.000		0.000	
		<input type="checkbox"/> OnlineFocus				No Calibration						
Errors	Total	<input type="checkbox"/> Focus				Default	Classic		Output	Units		
0	0	0.000				Calib	Calib	<input type="checkbox"/> Classic	Calib	pixels		
		0.224	End									
						Write FTP Settings						WriteFTPS
		13	Blob_7			Host Name	User Name	Password 1	Connection Type 1	Command		
Angle	Composite Region	Calib							Standard FTP	gtwr		
0.000		#ERR	Calib			Host Name	User Name	Password 2	Connection Type 2	Command		



57	Ignore Angl	Sort By	Result	EnabledSta	Include In J	Blobs	Area			Area	Row	Col
58	<input checked="" type="checkbox"/>	Area	#ERR	0	<input checked="" type="checkbox"/>	#ERR	#ERR			Tool Enable	Threshold	Blob Thresh
59	0.000	Tool Pass	Tool Fail	Status	Pass/Fail		<input type="checkbox"/> OnlineFocus			0.000	Manual	105
60	<input type="checkbox"/> Focus	0	1	2	1.000	<input checked="" type="checkbox"/> Show Gr	<input checked="" type="checkbox"/> Show Results			Ignore Angl	Sort By	Result
61	Hist	0.000	70.000	0.000	Blobs	Blobs		-1.000		<input checked="" type="checkbox"/>	Area	#ERR
62	Description	Row	Col	Angle	0.000	Blob_4	ErrorString			0.000	Tool Pass	Tool Fail
63		#ERR	#ERR	0.000	#ERR	Plot				<input type="checkbox"/> Focus	0	1
64	#ERR	#ERR	#ERR	#ERR						Hist	0.000	105.000
65	0.000	Passes	Failures	Errors	Total					Description	Row	Col
66	Count	0	0	0	0	0.000					#ERR	#ERR
67							0.235	End		#ERR	#ERR	#ERR
68										0.000	Passes	Failures
69	Find Blob					11	Blob_6			Count	0	0
70	Image	Row	Col	Angle	Composite Region	Calib						
71	Fixture	0.000	0.000	0.000		#ERR	Calib					
72	Area	Row	Col	Grid: Row t	Grid: Col th	Distance fr	Angle (CCV	Angular Distance		Find a circle		
73	Tool Enable	Threshold	Blob Thresh	Blob Color	Boundary	Minimum A	Maximum Area			Image	Row	Col
74	0.000	Manual	38	Black	<input checked="" type="checkbox"/>	500.0	800.0			Fixture	#ERR	#ERR
75	Ignore Angl	Sort By	Result	EnabledSta	Include In J	Blobs	Area				Row	Col
76	<input checked="" type="checkbox"/>	Area	#ERR	0	<input checked="" type="checkbox"/>	#ERR	#ERR			Annulus	506.095	567.195
77	0.000	Tool Pass	Tool Fail	Status	Pass/Fail		<input type="checkbox"/> OnlineFocus			Tool Enable	Include In J	Edge Contr
78	<input type="checkbox"/> Focus	0	1	2	1.000	<input checked="" type="checkbox"/> Show Gr	<input checked="" type="checkbox"/> Show Results			0.000	<input checked="" type="checkbox"/>	31
79	Hist	0.000	38.000	0.000	Blobs	Blobs		-1.000		Invert	Description	Tool Pass
80	Description	Row	Col	Angle	0.000	Blob_6	ErrorString			<input type="checkbox"/>		0
81		#ERR	#ERR	0.000	#ERR	Plot					CentRow	CentCol
82	#ERR	#ERR	#ERR	#ERR						Edges	0.000	0.000
83	0.000	Passes	Failures	Errors	Total					Point	0.000	0.000
84	Count	0	0	0	0	0.000				Inner	Outer	Result
85							0.220	End		Plot	Plot	Plot
86										0.000	Passes	Failures
87	Find Blob					9	Blob_5			Count	0	0
88	Image	Row	Col	Angle	Composite Region	Calib						
89	Fixture	0.000	0.000	0.000		#ERR	Calib					
90	Area	Row	Col	Grid: Row t	Grid: Col th	Distance fr	Angle (CCV	Angular Distance		Find Blob		
91	Tool Enable	Threshold	Blob Thresh	Blob Color	Boundary	Minimum A	Maximum Area			Image	Row	Col
92	0.000	Manual	40	Black	<input checked="" type="checkbox"/>	500.0	800.0			Fixture	0.000	0.000
93	Ignore Angl	Sort By	Result	EnabledSta	Include In J	Blobs	Area			Area	Row	Col
94	<input checked="" type="checkbox"/>	Area	#ERR	0	<input checked="" type="checkbox"/>	#ERR	#ERR			Tool Enable	Threshold	Blob Thresh
95	0.000	Tool Pass	Tool Fail	Status	Pass/Fail		<input type="checkbox"/> OnlineFocus			0.000	Manual	100
96	<input type="checkbox"/> Focus	0	1	2	1.000	<input checked="" type="checkbox"/> Show Gr	<input checked="" type="checkbox"/> Show Results			Ignore Angl	Sort By	Result
97	Hist	0.000	40.000	0.000	Blobs	Blobs		-1.000		<input checked="" type="checkbox"/>	Area	#ERR
98	Description	Row	Col	Angle	0.000	Blob_5	ErrorString			0.000	Tool Pass	Tool Fail
99		#ERR	#ERR	0.000	#ERR	Plot				<input type="checkbox"/> Focus	0	1
100	#ERR	#ERR	#ERR	#ERR						Hist	0.000	100.000
101	0.000	Passes	Failures	Errors	Total					Description	Row	Col
102	Count	0	0	0	0	0.000					#ERR	#ERR
103							0.240	End		#ERR	#ERR	#ERR
104										0.000	Passes	Failures
105	Find a circle					2	Circle_1			Count	0	0
106	Image	Row	Col	Angle			Calib					
107	Fixture	#ERR	#ERR	0.000		#ERR	Calib					
108		Row	Col	InnerRadius	OuterRadius					Find a circle		
109	Annulus	505.758	138.403	10.564	28.136					Image	Row	Col
110	Tool Enable	Include In J	Edge Contr	Edge Trans	Edge Width	Find By	Result			Fixture	#ERR	#ERR
111	0.000	<input checked="" type="checkbox"/>	29	Dark to M	6	Best Sc	Not Present				Row	Col
112	Invert	Description	Tool Pass	Tool Fail	Status	Pass/Fail	<input type="checkbox"/> Show Graphics			Annulus	378.200	884.301
113	<input type="checkbox"/>		0	1	2	1.000	<input type="checkbox"/> Show Results			Tool Enable	Include In J	Edge Contr
114		CentRow	CentCol	Radius	Score		EnabledStatus			0.000	<input checked="" type="checkbox"/>	45

Grid: Row t	Grid: Col th	Distance fr	Angle (CCV	Angular Distance				Standard FTP	gtwr
Blob Color	Boundary	Minimum A	Maximum Area						
Black	<input checked="" type="checkbox"/>	500.0	800.0		Tool Property References				
EnabledSta	Include In J	Blobs	Area						
0	<input checked="" type="checkbox"/>	#ERR	#ERR						
Status	Pass/Fail		<input type="checkbox"/> OnlineFocus						
2	1.000	<input checked="" type="checkbox"/> Show Gr	<input checked="" type="checkbox"/> Show Results						
0.000	Blobs	Blobs	-1.000						
Angle	0.000	Blob_7	ErrorString						
0.000	#ERR	Plot							
#ERR									
Errors	Total								
0	0	0.000							
			0.241	End					
	14	Circle_7							
Angle			Calib						
0.000		#ERR	Calib		POWERLINK				
InnerRadius	OuterRadius				POWERLINK				
12.132	25.865				FormatInputBuffer		Buffer	UserData	
Edge Trans	Edge Width	Find By	Result		FormatOutputBuffer	Buffer	Buffer	Buffer	Buffer
Dark to M	3	Best Sc	Not Present				Buffer	Buffer	Buffer
Tool Fail	Status	Pass/Fail	<input checked="" type="checkbox"/> Show Graphics		FormatInputBuffer tool inputs in use (GetValue and Original Input type				
1	2	1.000	<input checked="" type="checkbox"/> Show Results		0.000	0.000	0.000	0.000	0.000
Radius	Score		EnabledStatus		0.000	0.000	0.000	0.000	0.000
0.000	0.000		0		0.000	0.000	0.000	0.000	0.000
0.000	Point	0.000	0.000		0.000	0.000	0.000	0.000	0.000
			Circle_7		0.000	0.000	0.000	0.000	0.000
		<input type="checkbox"/> OnlineFocus			0.000	0.000	0.000	0.000	0.000
Errors	Total	<input type="checkbox"/> Focus			0.000	0.000	0.000	0.000	0.000
0	0	0.000			0.000	0.000	0.000	0.000	0.000
			0.225	End					
		21	Blob_11						
Angle	Composite Region		Calib						
0.000		#ERR	Calib						
Grid: Row t	Grid: Col th	Distance fr	Angle (CCV	Angular Distance	Results and infos				
Blob Color	Boundary	Minimum A	Maximum Area		Zone	Circle	Enable	Result	X Y
Black	<input checked="" type="checkbox"/>	500.0	800.0		1	Zone 1	0.000	0.000	0.000 0.000
EnabledSta	Include In J	Blobs	Area		2	Zone2	0.000	0.000	0.000 0.000
0	<input checked="" type="checkbox"/>	#ERR	#ERR		3	Zone3	0.000	0.000	0.000 0.000
Status	Pass/Fail		<input type="checkbox"/> OnlineFocus		4	Zone4	0.000	0.000	0.000 0.000
2	1.000	<input checked="" type="checkbox"/> Show Gr	<input checked="" type="checkbox"/> Show Results		5	Zone5	0.000	0.000	0.000 0.000
0.000	Blobs	Blobs	-1.000		6	Zone6	0.000	0.000	0.000 0.000
Angle	0.000	Blob_11	ErrorString		7	Zone7	0.000	0.000	0.000 0.000
0.000	#ERR	Plot			8	Zone8	0.000	0.000	0.000 0.000
#ERR									
Errors	Total								
0	0	0.000							
			0.252	End					
		22	Circle_11						
Angle			Calib						
0.000		#ERR	Calib						
InnerRadius	OuterRadius								
11.614	25.903								
Edge Trans	Edge Width	Find By	Result						
Dark to M	3	Best Sc	Not Present						



115	Edges	0.000	0.000	0.000	0.000		0		Invert	Description	Tool Pass
116	Point	0.000	0.000	0.000	Point	0.000	0.000		<input type="checkbox"/>		0
117	Inner	Outer	Result				Circle_1			CentRow	CentCol
118	Plot	Plot	Plot			<input type="checkbox"/> OnlineFocus			Edges	0.000	0.000
119	0.000	Passes	Failures	Errors	Total	<input type="checkbox"/> Focus			Point	0.000	0.000
120	Count	0	0	0	0	0.000			Inner	Outer	Result
121						0.230	End		Plot	Plot	Plot
122									0.000	Passes	Failures
123	Find a circle					4	Circle_2		Count	0	0
124	Image	Row	Col	Angle			Calib				
125	Fixture	#ERR	#ERR	0.000		#ERR	Calib				
126		Row	Col	InnerRadius	OuterRadius				Find Blob		
127	Annulus	289.396	264.058	13.938	29.358				Image	Row	Col
128	Tool Enable	Include In J	Edge Contr	Edge Trans	Edge Width	Find By	Result		Fixture	0.000	0.000
129	0.000	<input checked="" type="checkbox"/>	20	Dark to M	4	Best Score	Not Present		Area	Row	Col
130	Invert	Description	Tool Pass	Tool Fail	Status	Pass/Fail	<input type="checkbox"/> Show Graphics		Tool Enable	Threshold	Blob Thresh
131	<input type="checkbox"/>		0	1	2	1.000	<input type="checkbox"/> Show Results		0.000	Manual	130
132		CentRow	CentCol	Radius	Score		EnabledStatus		Ignore Angl	Sort By	Result
133	Edges	0.000	0.000	0.000	0.000		0		<input checked="" type="checkbox"/>	Area	#ERR
134	Point	0.000	0.000	0.000	Point	0.000	0.000		0.000	Tool Pass	Tool Fail
135	Inner	Outer	Result				Circle_2		<input type="checkbox"/> Focus	0	1
136	Plot	Plot	Plot			<input type="checkbox"/> OnlineFocus			Hist	0.000	130.000
137	0.000	Passes	Failures	Errors	Total	<input type="checkbox"/> Focus			Description	Row	Col
138	Count	0	0	0	0	0.000				#ERR	#ERR
139						0.333	End		#ERR	#ERR	#ERR
140									0.000	Passes	Failures
141	Find Blob					31	Blob_16		Count	0	0
142	Image	Row	Col	Angle		Composite Region	Calib				
143	Fixture	0.000	0.000	0.000		#ERR	Calib				
144	Area	Row	Col	Grid: Row t	Grid: Col th	Distance fr	Angle (CCVAngular Distance		Find a circle		
145	Tool Enable	Threshold	Blob Thresh	Blob Color	Boundary	Minimum A	Maximum Area		Image	Row	Col
146	0.000	Manual	12	Black	<input checked="" type="checkbox"/>	500.0	1000.0		Fixture	#ERR	#ERR
147	Ignore Angl	Sort By	Result	EnabledSta	Include In J	Blobs	Area			Row	Col
148	<input checked="" type="checkbox"/>	Area	#ERR	0	<input checked="" type="checkbox"/>	#ERR	#ERR		Annulus	501.565	789.667
149	0.000	Tool Pass	Tool Fail	Status	Pass/Fail		<input type="checkbox"/> OnlineFocus		Tool Enable	Include In J	Edge Contr
150	<input type="checkbox"/> Focus	1	0	1	1.000	<input checked="" type="checkbox"/> Show Gr	<input checked="" type="checkbox"/> Show Results		0.000	<input checked="" type="checkbox"/>	40
151	Hist	0.000	12.000	0.000	Blobs	Blobs	-1.000		Invert	Description	Tool Pass
152	Description	Row	Col	Angle	0.000		ErrorString		<input type="checkbox"/>		0
153		#ERR	#ERR	0.000	#ERR	Plot				CentRow	CentCol
154	#ERR	#ERR	#ERR	#ERR					Edges	0.000	0.000
155	0.000	Passes	Failures	Errors	Total				Point	0.000	0.000
156	Count	0	0	0	0	0.000			Inner	Outer	Result
157						0.259	End		Plot	Plot	Plot
158									0.000	Passes	Failures
159	Find Blob					5	Blob_3		Count	0	0
160	Image	Row	Col	Angle		Composite Region	Calib				
161	Fixture	0.000	0.000	0.000		#ERR	Calib				
162	Area	Row	Col	Grid: Row t	Grid: Col th	Distance fr	Angle (CCVAngular Distance		Find Blob		
163	Tool Enable	Threshold	Blob Thresh	Blob Color	Boundary	Minimum A	Maximum Area		Image	Row	Col
164	0.000	Manual	45	Black	<input checked="" type="checkbox"/>	500.0	1000.0		Fixture	0.000	0.000
165	Ignore Angl	Sort By	Result	EnabledSta	Include In J	Blobs	Area		Area	Row	Col
166	<input checked="" type="checkbox"/>	Area	#ERR	0	<input checked="" type="checkbox"/>	#ERR	#ERR		Tool Enable	Threshold	Blob Thresh
167	0.000	Tool Pass	Tool Fail	Status	Pass/Fail		<input type="checkbox"/> OnlineFocus		0.000	Manual	60
168	<input type="checkbox"/> Focus	0	1	2	1.000	<input checked="" type="checkbox"/> Show Gr	<input checked="" type="checkbox"/> Show Results		Ignore Angl	Sort By	Result
169	Hist	0.000	45.000	0.000	Blobs	Blobs	-1.000		<input checked="" type="checkbox"/>	Area	#ERR
170	Description	Row	Col	Angle	0.000	Blob_3	ErrorString		0.000	Tool Pass	Tool Fail
171		#ERR	#ERR	0.000	#ERR	Plot			<input type="checkbox"/> Focus	0	1
172	#ERR	#ERR	#ERR	#ERR					Hist	0.000	60.000

Tool Fail	Status	Pass/Fail	<input checked="" type="checkbox"/> Show Graphics							
1	2	1.000	<input checked="" type="checkbox"/> Show Results							
Radius	Score		EnabledStatus							
0.000	0.000		0							
0.000	Point	0.000	0.000							
			Circle_11							
		<input type="checkbox"/> OnlineFocus								
Errors	Total	<input type="checkbox"/> Focus								
0	0	0.000								
		0.219	End							
		19	Blob_10							
Angle	Composite Region	Calib								
0.000		#ERR	Calib							
Grid: Row t	Grid: Col th	Distance fr	Angle (CCV	Angular Distance						
Blob Color	Boundary	Minimum A	Maximum Area							
Black	<input checked="" type="checkbox"/>	500.0	800.0							
EnabledSta	Include In J	Blobs	Area							
0	<input checked="" type="checkbox"/>	#ERR	#ERR							
Status	Pass/Fail		<input type="checkbox"/> OnlineFocus							
2	1.000	<input checked="" type="checkbox"/> Show Gr	<input checked="" type="checkbox"/> Show Results							
0.000	Blobs	Blobs		-1.000						
Angle	0.000	Blob_10	ErrorString							
0.000	#ERR	Plot								
#ERR										
Errors	Total									
0	0	0.000								
			0.256	End						
		20	Circle_10							
Angle			Calib							
0.000		#ERR	Calib							
InnerRadius	OuterRadius									
11.458	27.195									
Edge Trans	Edge Width	Find By	Result							
Dark to M	3	Best Score	Not Present							
Tool Fail	Status	Pass/Fail	<input checked="" type="checkbox"/> Show Graphics							
1	2	1.000	<input checked="" type="checkbox"/> Show Results							
Radius	Score		EnabledStatus							
0.000	0.000		0							
0.000	Point	0.000	0.000							
			Circle_10							
		<input type="checkbox"/> OnlineFocus								
Errors	Total	<input type="checkbox"/> Focus								
0	0	0.000								
		0.237	End							
		27	Blob_14							
Angle	Composite Region	Calib								
0.000		#ERR	Calib							
Grid: Row t	Grid: Col th	Distance fr	Angle (CCV	Angular Distance						
Blob Color	Boundary	Minimum A	Maximum Area							
Either	<input checked="" type="checkbox"/>	500.0	800.0							
EnabledSta	Include In J	Blobs	Area							
0	<input checked="" type="checkbox"/>	#ERR	#ERR							
Status	Pass/Fail		<input type="checkbox"/> OnlineFocus							
2	1.000	<input checked="" type="checkbox"/> Show Gr	<input checked="" type="checkbox"/> Show Results							
0.000	Blobs	Blobs		-1.000						





173	0.000	Passes	Failures	Errors	Total						Description	Row	Col
174	Count	0	0	0	0	0.000					#ERR	#ERR	#ERR
175							0.259	End			#ERR	#ERR	#ERR
176											0.000	Passes	Failures
177	Find a circle					6	Circle_3				Count	0	0
178	Image	Row	Col	Angle				Calib					
179	Fixture	#ERR	#ERR	0.000		#ERR		Calib					
180		Row	Col	InnerRadius	OuterRadius						Find a circle		
181	Annulus	380.868	269.847	14.681	27.255						Image	Row	Col
182	Tool Enable	Include In J	Edge Contr	Edge Trans	Edge Width	Find By	Result				Fixture	#ERR	#ERR
183	0.000	<input checked="" type="checkbox"/>	17	Dark to M	3	Best Score	Not Present				Row	Col	
184	Invert	Description	Tool Pass	Tool Fail	Status	Pass/Fail	<input checked="" type="checkbox"/> Show Graphics				Annulus	488.972	980.059
185	<input type="checkbox"/>		0	1	2	1.000	<input checked="" type="checkbox"/> Show Results				Tool Enable	Include In J	Edge Contr
186		CentRow	CentCol	Radius	Score		EnabledStatus				0.000	<input checked="" type="checkbox"/>	45
187	Edges	0.000	0.000	0.000	0.000		0				Invert	Description	Tool Pass
188	Point	0.000	0.000	0.000	Point	0.000	0.000				<input type="checkbox"/>		0
189	Inner	Outer	Result				Circle_3					CentRow	CentCol
190	Plot	Plot	Plot			<input type="checkbox"/> OnlineFocus					Edges	0.000	0.000
191	0.000	Passes	Failures	Errors	Total	<input type="checkbox"/> Focus					Point	0.000	0.000
192	Count	0	0	0	0	0.000					Inner	Outer	Result
193							0.296	End			Plot	Plot	Plot
194											0.000	Passes	Failures
195	Find Blob					15	Blob_8				Count	0	0
196	Image	Row	Col	Angle		Composite Region	Calib						
197	Fixture	0.000	0.000	0.000		#ERR	Calib						
198	Area	Row	Col	Grid: Row t	Grid: Col th	Distance fr	Angle (CCV	Angular Distance			Find Blob		
199	Tool Enable	Threshold M	Blob Thresh	Blob Color	Boundary	Minimum A	Maximum Area				Image	Row	Col
200	0.000	Manual	50	Black	<input checked="" type="checkbox"/>	500.0	800.0				Fixture	0.000	0.000
201	Ignore Angl	Sort By	Result	EnabledSta	Include In J	Blobs	Area				Area	Row	Col
202	<input checked="" type="checkbox"/>	Area	#ERR	0	<input checked="" type="checkbox"/>	#ERR	#ERR				Tool Enable	Threshold M	Blob Thresh
203	0.000	Tool Pass	Tool Fail	Status	Pass/Fail		<input type="checkbox"/> OnlineFocus				0.000	Manual	25
204	<input type="checkbox"/> Focus	0	1	2	1.000	<input checked="" type="checkbox"/> Show Gr	<input checked="" type="checkbox"/> Show Results				Ignore Angl	Sort By	Result
205	Hist	0.000	50.000	0.000	Blobs	Blobs	-1.000				<input checked="" type="checkbox"/>	Area	#ERR
206	Description	Row	Col	Angle	0.000	Blob_8	ErrorString				0.000	Tool Pass	Tool Fail
207	#ERR	#ERR	#ERR	0.000	#ERR	Plot					<input type="checkbox"/> Focus	0	1
208	#ERR	#ERR	#ERR	#ERR							Hist	0.000	25.000
209	0.000	Passes	Failures	Errors	Total						Description	Row	Col
210	Count	0	0	0	0	0.000					#ERR	#ERR	#ERR
211							0.246	End			#ERR	#ERR	#ERR
212											0.000	Passes	Failures
213	Find a circle					16	Circle_8				Count	0	0
214	Image	Row	Col	Angle				Calib					
215	Fixture	#ERR	#ERR	0.000		#ERR		Calib					
216		Row	Col	InnerRadius	OuterRadius						Find a circle		
217	Annulus	759.000	556.364	12.134	29.929						Image	Row	Col
218	Tool Enable	Include In J	Edge Contr	Edge Trans	Edge Width	Find By	Result				Fixture	#ERR	#ERR
219	0.000	<input checked="" type="checkbox"/>	15	Both	3	Best Score	Not Present				Row	Col	
220	Invert	Description	Tool Pass	Tool Fail	Status	Pass/Fail	<input checked="" type="checkbox"/> Show Graphics				Annulus	501.906	1091.703
221	<input type="checkbox"/>		0	1	2	1.000	<input checked="" type="checkbox"/> Show Results				Tool Enable	Include In J	Edge Contr
222		CentRow	CentCol	Radius	Score		EnabledStatus				0.000	<input checked="" type="checkbox"/>	20
223	Edges	0.000	0.000	0.000	0.000		0				Invert	Description	Tool Pass
224	Point	0.000	0.000	0.000	Point	0.000	0.000				<input type="checkbox"/>		0
225	Inner	Outer	Result				Circle_8					CentRow	CentCol
226	Plot	Plot	Plot			<input type="checkbox"/> OnlineFocus					Edges	0.000	0.000
227	0.000	Passes	Failures	Errors	Total	<input type="checkbox"/> Focus					Point	0.000	0.000
228	Count	0	0	0	0	0.000					Inner	Outer	Result
229							0.258	End			Plot	Plot	Plot
230											0.000	Passes	Failures

Angle	0.000	Blob_14	ErrorString
0.000	#ERR	Plot	
#ERR			
Errors	Total		
0	0	0.000	
		0.237	End
	28	Circle_14	
Angle			Calib
0.000		#ERR	Calib
InnerRadius:OuterRadius			
12.241	24.149		
Edge Trans	Edge Width	Find By	Result
Dark to M	3	Best Score	Not Present
Tool Fail	Status	Pass/Fail	<input checked="" type="checkbox"/> Show Graphics
1	2	1.000	<input checked="" type="checkbox"/> Show Results
Radius	Score		EnabledStatus
0.000	0.000		0
0.000	Point	0.000	0.000
			Circle_14
		<input type="checkbox"/> OnlineFocus	
Errors	Total	<input type="checkbox"/> Focus	
0	0	0.000	
		0.319	End
	29	Blob_15	
Angle	Composite Region		Calib
0.000		#ERR	Calib
Grid: Row t	Grid: Col th	Distance from	Angle (CCV Angular Distance
Blob Color	Boundary	Minimum Area	Maximum Area
Black	<input checked="" type="checkbox"/>	500.0	800.0
EnabledSta	Include In J	Blobs	Area
0	<input checked="" type="checkbox"/>	#ERR	#ERR
Status	Pass/Fail		<input type="checkbox"/> OnlineFocus
2	1.000	<input checked="" type="checkbox"/> Show Gr	<input checked="" type="checkbox"/> Show Results
0.000	Blobs	Blobs	-1.000
Angle	0.000	Blob_15	ErrorString
0.000	#ERR	Plot	
#ERR			
Errors	Total		
0	0	0.000	
		0.547	End
	30	Circle_15	
Angle			Calib
0.000		#ERR	Calib
InnerRadius:OuterRadius			
14.908	30.599		
Edge Trans	Edge Width	Find By	Result
Dark to M	3	Best Score	Not Present
Tool Fail	Status	Pass/Fail	<input checked="" type="checkbox"/> Show Graphics
1	2	1.000	<input checked="" type="checkbox"/> Show Results
Radius	Score		EnabledStatus
0.000	0.000		0
0.000	Point	0.000	0.000
			Circle_15
		<input type="checkbox"/> OnlineFocus	
Errors	Total	<input type="checkbox"/> Focus	



231	Find Blob					17	Blob_9		Count	0	0
232	Image	Row	Col	Angle	Composite Region	Calib					
233	Fixture	0.000	0.000	0.000	#ERR	Calib					
234	Area	Row	Col	Grid: Row t	Grid: Col th	Distance fr	Angle (CCV	Angular Distance	Find a circle		
235	Tool Enable	Threshold	Blob Thres	Blob Color	Boundary	Minimum A	Maximum Area		Image	Row	Col
236	0.000	Manual	50	Black		500.0	800.0		Fixture	#ERR	#ERR
237	Ignore Angl	Sort By	Result	EnabledSta	Include In J	Blobs	Area			Row	Col
238		Area	#ERR	0		#ERR	#ERR		Annulus	460.073	1196.758
239	0.000	Tool Pass	Tool Fail	Status	Pass/Fail				Tool Enable	Include In J	Edge Contr
240	Focus	0	1	2	1.000	Show Gr	Show Results		0.000		15
241	Hist	0.000	50.000	0.000	Blobs	Blobs	-1.000		Invert	Description	Tool Pass
242	Description	Row	Col	Angle	0.000	Blob_9	ErrorString				1
243		#ERR	#ERR	0.000	#ERR	Plot				CentRow	CentCol
244	#ERR	#ERR	#ERR	#ERR					Edges	460.073	1196.758
245	0.000	Passes	Failures	Errors	Total				Point	1196.758	460.073
246	Count	0	0	0	0	0.000			Inner	Outer	Result
247							0.238	End	Plot	Plot	Plot
248									0.000	Passes	Failures
249	Find a circle					18	Circle_9		Count	0	0
250	Image	Row	Col	Angle	Composite Region	Calib					
251	Fixture	#ERR	#ERR	0.000	#ERR	Calib					
252		Row	Col	InnerRadius	OuterRadius						
253	Annulus	272.306	560.655	13.163	27.655						
254	Tool Enable	Include In J	Edge Contr	Edge Trans	Edge Width	Find By	Result				
255	0.000		15	Both	3	Best Sc	Not Present				
256	Invert	Description	Tool Pass	Tool Fail	Status	Pass/Fail	Show Graphics				
257			0	1	2	1.000	Show Results				
258		CentRow	CentCol	Radius	Score		EnabledStatus				
259	Edges	0.000	0.000	0.000	0.000		0				
260	Point	0.000	0.000	0.000	Point	0.000	0.000				
261	Inner	Outer	Result				Circle_9				
262	Plot	Plot	Plot				OnlineFocus				
263	0.000	Passes	Failures	Errors	Total		Focus				
264	Count	0	0	0	0	0.000					
265							0.217	End			
266											
267	Find Blob					23	Blob_12				
268	Image	Row	Col	Angle	Composite Region	Calib					
269	Fixture	0.000	0.000	0.000	#ERR	Calib					
270	Area	Row	Col	Grid: Row t	Grid: Col th	Distance fr	Angle (CCV	Angular Distance			
271	Tool Enable	Threshold	Blob Thres	Blob Color	Boundary	Minimum A	Maximum Area				
272	0.000	Manual	50	Black		500.0	800.0				
273	Ignore Angl	Sort By	Result	EnabledSta	Include In J	Blobs	Area				
274		Area	#ERR	0		#ERR	#ERR				
275	0.000	Tool Pass	Tool Fail	Status	Pass/Fail		OnlineFocus				
276	Focus	0	1	2	1.000	Show Gr	Show Results				
277	Hist	0.000	50.000	0.000	Blobs	Blobs	-1.000				
278	Description	Row	Col	Angle	0.000	Blob_12	ErrorString				
279		#ERR	#ERR	0.000	#ERR	Plot					
280	#ERR	#ERR	#ERR	#ERR							
281	0.000	Passes	Failures	Errors	Total						
282	Count	0	0	0	0	0.000					
283							0.294	End			
284											
285	Find a circle					24	Circle_12				
286	Image	Row	Col	Angle	Composite Region	Calib					
287	Fixture	#ERR	#ERR	0.000	#ERR	Calib					
288		Row	Col	InnerRadius	OuterRadius						





289	Annulus	733.551	895.527	16.232	32.081													
290	Tool Enable	Include In J	Edge Contr	Edge Trans	Edge Width	Find By	Result											
291	0.000	<input checked="" type="checkbox"/>	13	Dark to M	3	Best Score	Not Present											
292	Invert	Description	Tool Pass	Tool Fail	Status	Pass/Fail	<input checked="" type="checkbox"/> Show Graphics											
293	<input type="checkbox"/>		0	1	2	1.000	<input checked="" type="checkbox"/> Show Results											
294		CentRow	CentCol	Radius	Score		EnabledStatus											
295	Edges	0.000	0.000	0.000	0.000		0											
296	Point	0.000	0.000	0.000	Point	0.000	0.000											
297	Inner	Outer	Result				Circle_12											
298	Plot	Plot	Plot			<input type="checkbox"/> OnlineFocus												
299	0.000	Passes	Failures	Errors	Total	<input type="checkbox"/> Focus												
300	Count	0	0	0	0	0.000												
301						0.240	End											
302																		
303	Find Blob					25	Blob_13											
304	Image	Row	Col	Angle	Composite Region	Calib												
305	Fixture	0.000	0.000	0.000	#ERR	Calib												
306	Area	Row	Col	Grid: Row t	Grid: Col th	Distance fr	Angle (CCV	Angular Distance										
307	Tool Enable	Threshold	Blob Thres	Blob Color	Boundary	Minimum A	Maximum Area											
308	0.000	Manual	50	Black	<input checked="" type="checkbox"/>	500.0	800.0											
309	Ignore Angl	Sort By	Result	EnabledSta	Include In J	Blobs	Area											
310	<input checked="" type="checkbox"/>	Area	#ERR	0	<input checked="" type="checkbox"/>	#ERR	#ERR											
311	0.000	Tool Pass	Tool Fail	Status	Pass/Fail		<input type="checkbox"/> OnlineFocus											
312	<input type="checkbox"/> Focus	1	0	1	1.000	<input checked="" type="checkbox"/> Show Gr	<input checked="" type="checkbox"/> Show Results											
313	Hist	0.000	50.000	0.000	Blobs	Blobs	-1.000											
314	Description	Row	Col	Angle	0.000	ErrorString												
315	#ERR	#ERR	#ERR	0.000	#ERR	Plot												
316	#ERR	#ERR	#ERR	#ERR														
317	0.000	Passes	Failures	Errors	Total													
318	Count	0	0	0	0	0.000												
319							0.261	End										
320																		
321	Find a circle					26	Circle_13											
322	Image	Row	Col	Angle		Calib												
323	Fixture	#ERR	#ERR	0.000	#ERR	Calib												
324		Row	Col	InnerRadius	OuterRadius													
325	Annulus	262.908	873.709	15.723	33.381													
326	Tool Enable	Include In J	Edge Contr	Edge Trans	Edge Width	Find By	Result											
327	0.000	<input checked="" type="checkbox"/>	18	Dark to M	3	Best Score	Present											
328	Invert	Description	Tool Pass	Tool Fail	Status	Pass/Fail	<input checked="" type="checkbox"/> Show Graphics											
329	<input type="checkbox"/>		1	0	1	1.000	<input checked="" type="checkbox"/> Show Results											
330		CentRow	CentCol	Radius	Score		EnabledStatus											
331	Edges	262.908	873.709	19.333	0.000		0											
332	Point	873.709	262.908	19.333	Point	873.709	282.242											
333	Inner	Outer	Result															
334	Plot	Plot	Plot			<input type="checkbox"/> OnlineFocus												
335	0.000	Passes	Failures	Errors	Total	<input type="checkbox"/> Focus												
336	Count	0	0	0	0	0.000												
337							0.234	End										





[illegible]