

FOCAL LENGTH 3 in.	RELATIVE APERTURE f/2.8	FORMAT 2.25 in. x 2.25 in. (56 mm x 72 mm)	MANUFACTURER Jos. Schneider & Co.
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Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)

0	4	8	12	16	20	24	28												
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FILM Pan (175 Lin/mm) TARGET CONTRAST High FILTER _____

RADIAL	62	59	59	52	42	42	45	38												
TANGENTIAL	62	59	59	45	36	33	38	33												

AWAR _____ L/mm

FILM _____ TARGET CONTRAST _____ FILTER _____

RADIAL																				
TANGENTIAL																				

AWAR _____ L/mm

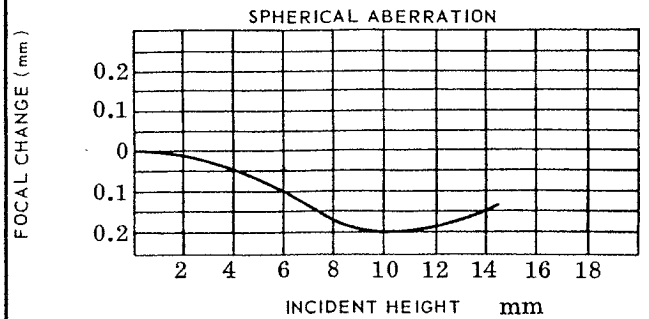
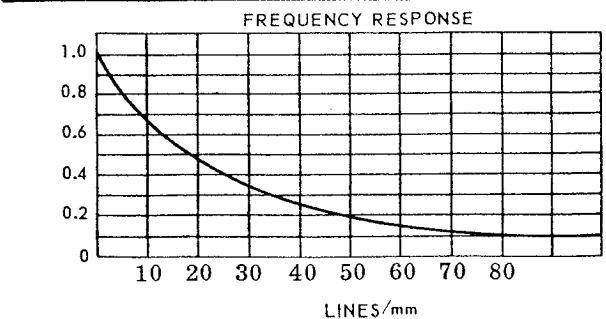
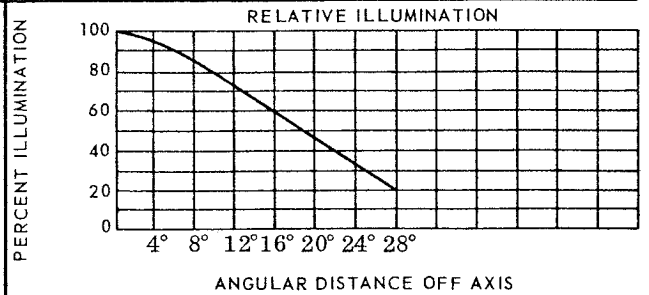
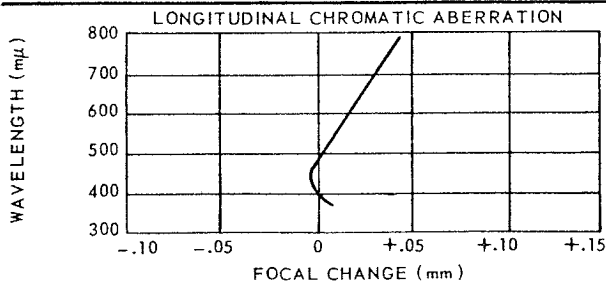
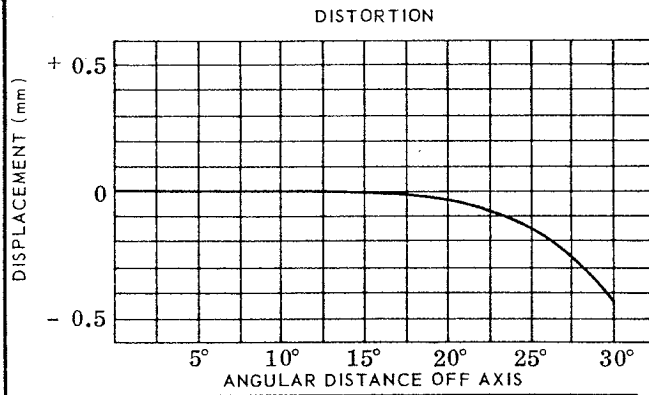
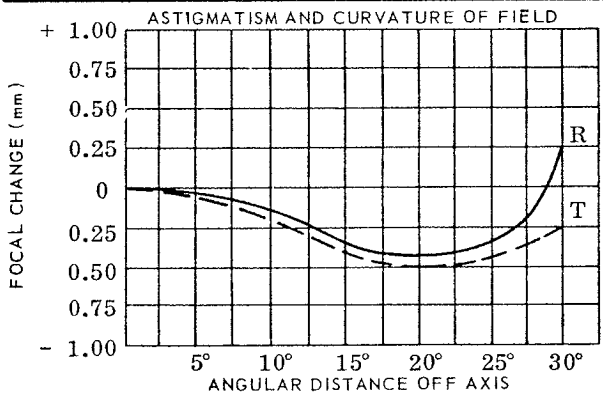
FILM _____ TARGET CONTRAST _____ FILTER _____

RADIAL																				
TANGENTIAL																				

AWAR _____ L/mm

VISUAL _____ TARGET CONTRAST _____ FILTER _____

RADIAL																				
TANGENTIAL																				



LENS DATA INFORMATION SHEET			DATE	
(Reference MIL-STD-150A for definition of terms and methods of measurement)			15 Sept. 1967	
TYPE (MIL-STD-150A)		NAME		
Type I Aerial Reconnaissance				
FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER	
4 in.	f/1.4	2.25 in. x 2.25 in.	Leitz, Canada	
STOCK NO.		SPECIFICATION NO.	STATUS	
GENERAL DESCRIPTION				
CHARACTERISTICS				
EQUIVALENT FOCAL LENGTH		TRANSMITTANCE		
4 in. (101.6 mm)		78%		
BACK FOCAL DISTANCE		COLOR CORRECTION		
0.250 in.				
FRONT VERTEX BACK FOCAL DISTANCE		DISTORTION (Maximum)		
5.980 in.		0.6 mm		
FLANGE FOCAL DISTANCE		LENS CELL DIAMETER (Maximum)		
3.687 in.		4.406 in.		
SEMI-FIELD ANGLE		OVERALL LENGTH		
22°		5.827 in.		
RELATIVE APERTURE		WEIGHT		
f/1.4		5 lb, 2 oz		
REMARKS:				
Used on the following aircraft camera: KS-71				

FOCAL LENGTH 4 in.	RELATIVE APERTURE f/1.4	FORMAT 2.25 in. x 2.25 in.	MANUFACTURER Leitz, Canada
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Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	5	10	15	20														
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FILM	SO 206										TARGET CONTRAST	High					FILTER	W-12				
RADIAL	48	114	71	16	21																	
TANGENTIAL	42	71	56	35	28																	

AWAR
47 L/mm

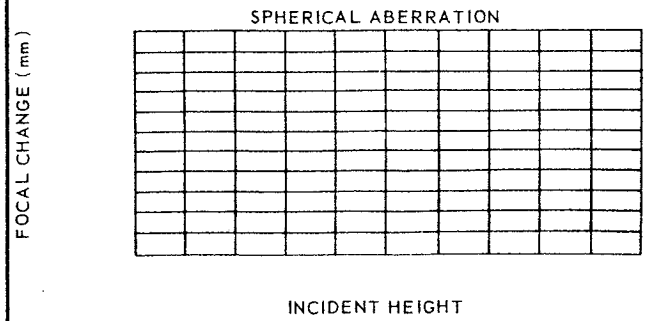
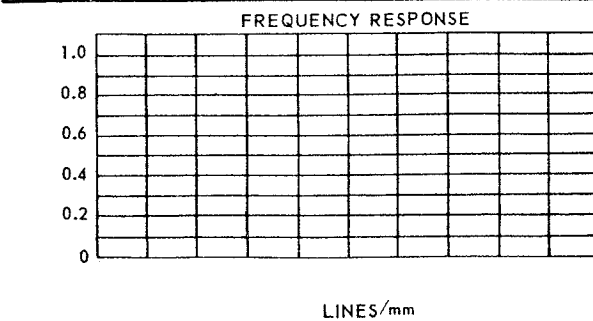
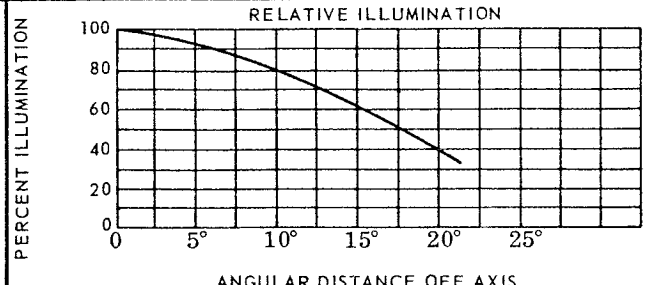
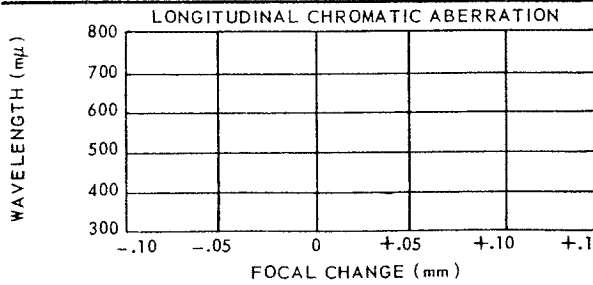
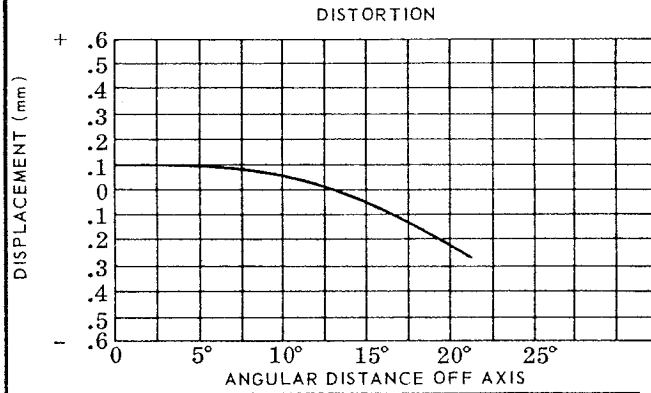
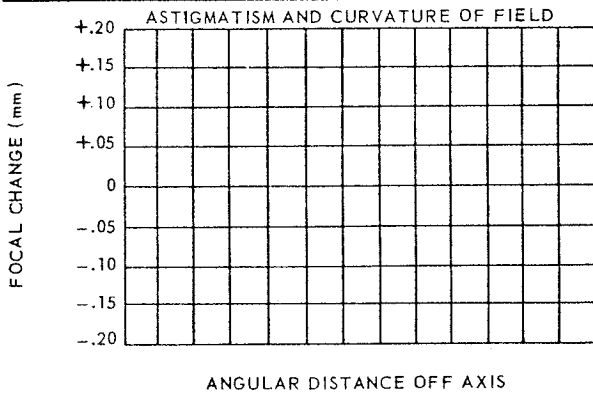
FILM											TARGET CONTRAST						FILTER					
RADIAL																						
TANGENTIAL																						

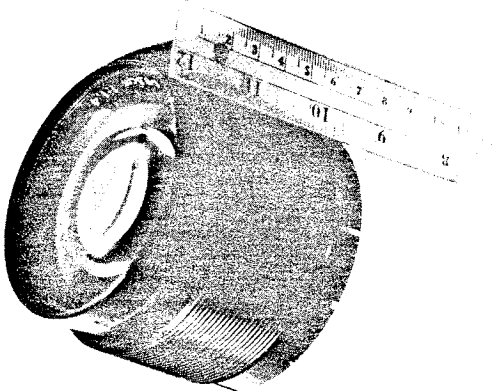
AWAR
L/mm

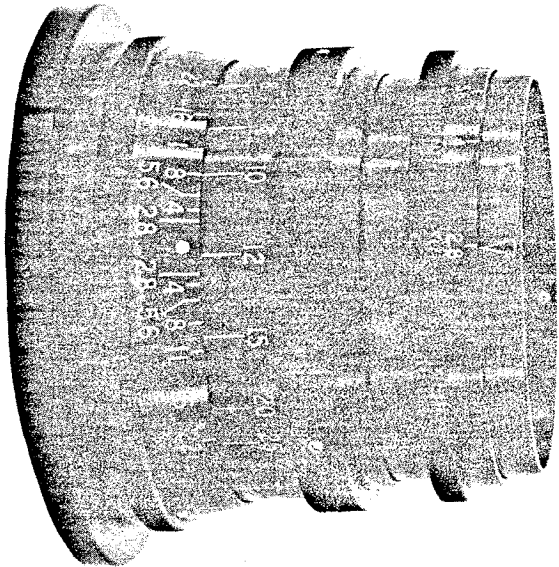

FILM											TARGET CONTRAST						FILTER					
RADIAL																						
TANGENTIAL																						

AWAR
L/mm

VISUAL											TARGET CONTRAST						FILTER					
RADIAL																						
TANGENTIAL																						



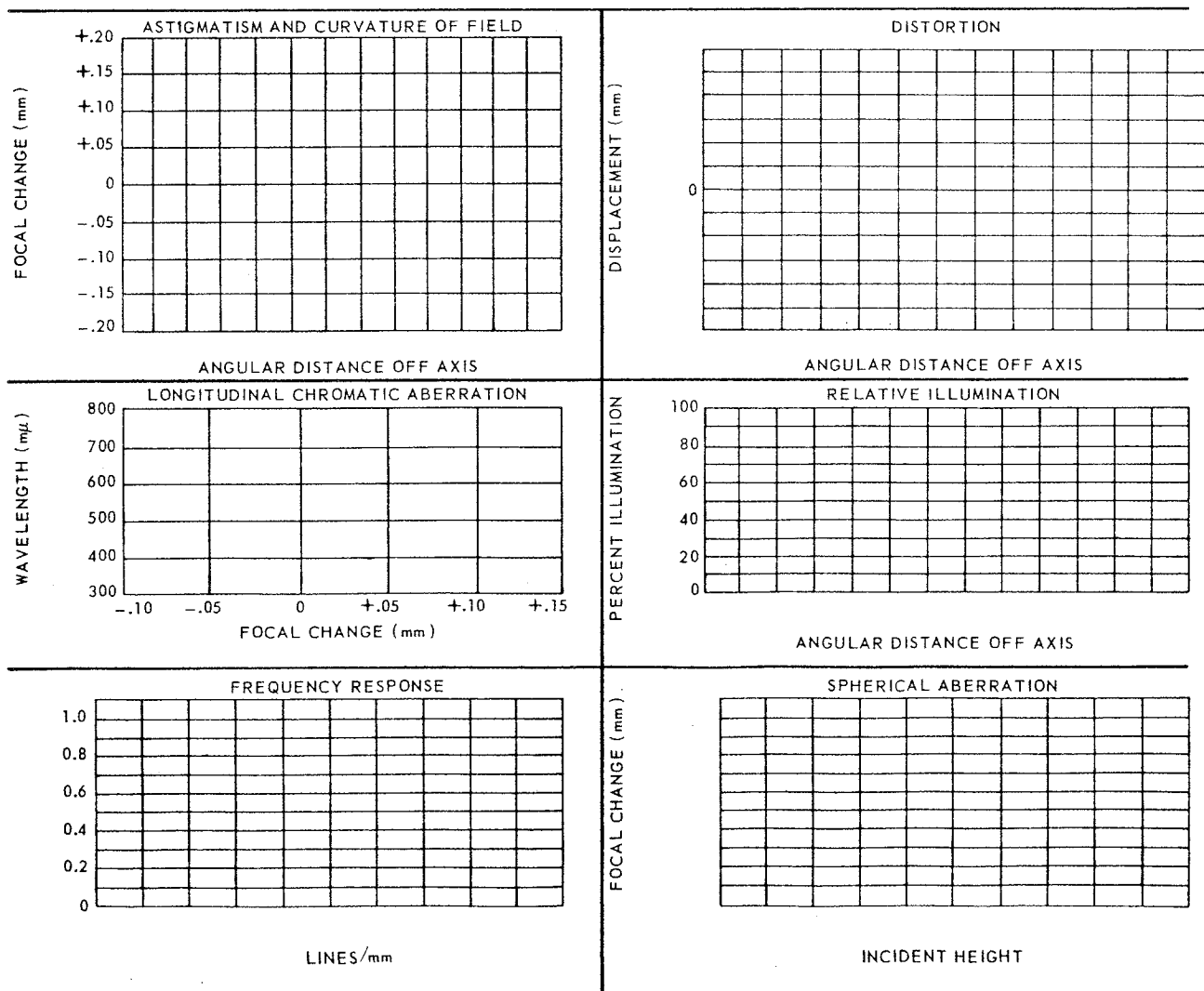
LENS DATA INFORMATION SHEET			DATE	
(Reference MIL-STD-150A for definition of terms and methods of measurement)			15 Sept. 1967	
TYPE (MIL-STD-150A)		NAME		
Type I Aerial Reconnaissance				
FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER	
4 in.	f/1.4	2.25 in. x 2.25 in.	Wild-Heerbrugg Ltd.	
STOCK NO.	SPECIFICATION NO.	STATUS		
GENERAL DESCRIPTION				
				
CHARACTERISTICS				
EQUIVALENT FOCAL LENGTH	4 in. (96.72 mm)		TRANSMITTANCE	83% (T-1.53)
BACK FOCAL DISTANCE	1.71 in. (43.55 mm)		COLOR CORRECTION	Visible
FRONT VERTEX BACK FOCAL DISTANCE			DISTORTION (Maximum)	
FLANGE FOCAL DISTANCE	4.03 in. (102.5 mm)		LENS CELL DIAMETER (Maximum)	4 in. (105 mm)
SEMI-FIELD ANGLE	18° 12'		OVERALL LENGTH	4 in. (97.75 mm)
RELATIVE APERTURE	f/1.4		WEIGHT	
REMARKS:				
Used on the following aircraft cameras: CA-120				

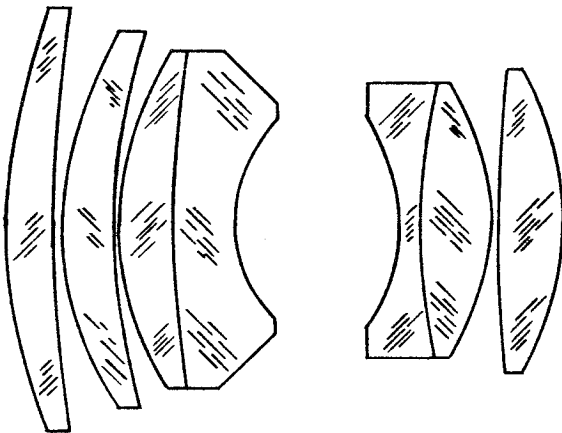
LENS DATA INFORMATION SHEET <i>(Reference MIL-STD-150A for definition of terms and methods of measurement)</i>			DATE 15 Sept. 1967	
TYPE (MIL-STD-150A) Type I Aerial Reconnaissance		NAME Ektar		
FOCAL LENGTH 4 in.	RELATIVE APERTURE f/2.8	FORMAT 2.25 in. x 2.25 in.	MANUFACTURER Eastman Kodak Co.	
STOCK NO. Eastman Kodak 805850		SPECIFICATION NO.		STATUS Special Order
GENERAL DESCRIPTION				
				
				
CHARACTERISTICS				
EQUIVALENT FOCAL LENGTH 4 in. (102.06 mm)		TRANSMITTANCE		
BACK FOCAL DISTANCE 2.9 in. (73.8 mm)		COLOR CORRECTION		
FRONT VERTEX BACK FOCAL DISTANCE 4.54 in. (115.50 mm)		DISTORTION (<i>Maximum</i>)		
FLANGE FOCAL DISTANCE 2.165 in.		LENS CELL DIAMETER (<i>Maximum</i>) 3.385 in.		
SEMI-FIELD ANGLE 24°		OVERALL LENGTH 4.656 in.		
RELATIVE APERTURE f/2.8		WEIGHT		
REMARKS:				

FOCAL LENGTH 4 in.	RELATIVE APERTURE f/2.8	FORMAT 2.25 in. x 2.25 in.	MANUFACTURER Eastman Kodak Co.
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Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	5	10	15	20	22.5															
	FILM <u>Plus X</u>				TARGET CONTRAST <u>High</u>				FILTER <u>W-12</u>												
AVERAGE RADIAL AND TANGENTIAL	37	33	26	18	20	14															AWAR _____ L/mm
AVERAGE RADIAL AND TANGENTIAL	FILM _____				TARGET CONTRAST _____				FILTER _____								AWAR _____ L/mm				
AVERAGE RADIAL AND TANGENTIAL	FILM _____				TARGET CONTRAST _____				FILTER _____								AWAR _____ L/mm				
RADIAL TANGENTIAL	VISUAL _____				TARGET CONTRAST _____				FILTER _____								AWAR _____ L/mm				

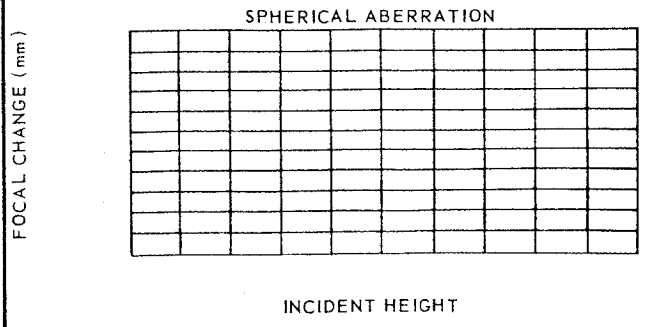
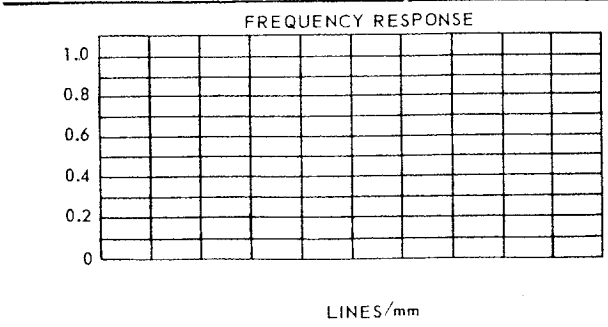
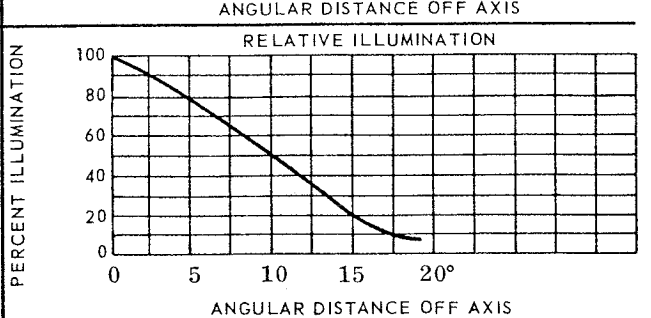
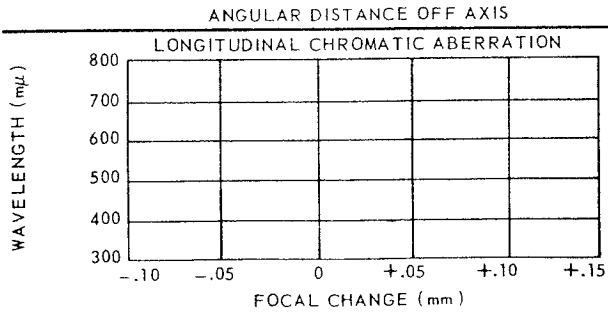
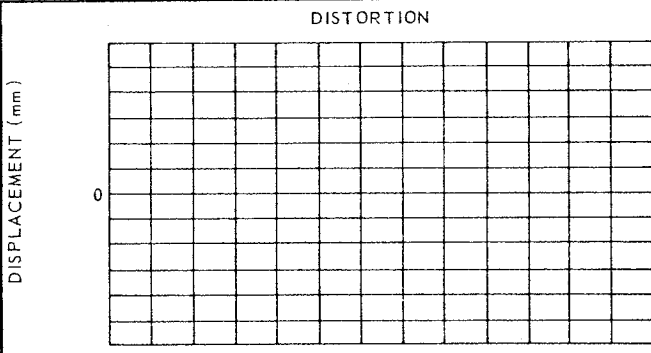
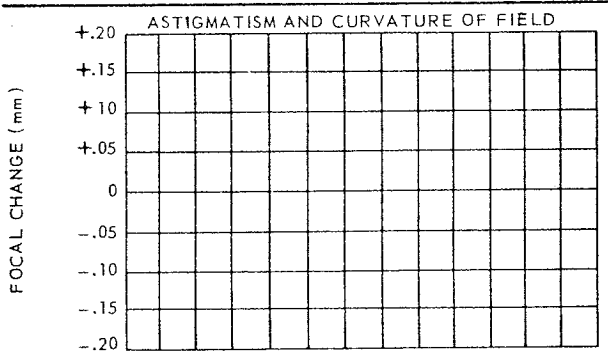


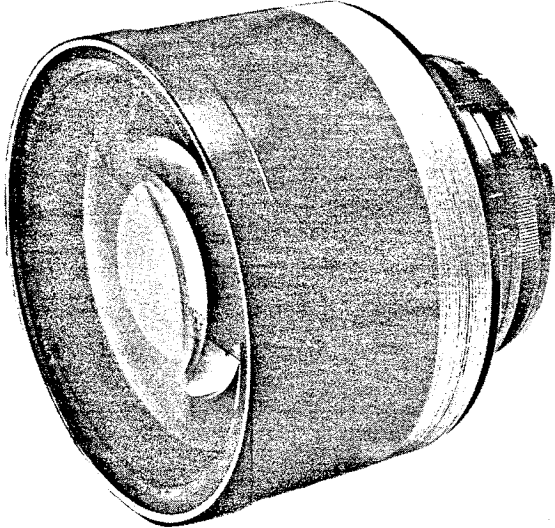
LENS DATA INFORMATION SHEET <i>(Reference MIL-STD-150A for definition of terms and methods of measurement)</i>			DATE 15 Sept. 1967	
TYPE (MIL-STD-150A) Type 1 Aerial Reconnaissance		NAME Deltamar		
FOCAL LENGTH 4.5 in.	RELATIVE APERTURE f/1.4	FORMAT 2.25 in. x 2.25 in.	MANUFACTURER Aerojet Delft Corp.	
STOCK NO.	SPECIFICATION NO.	STATUS Production		
GENERAL DESCRIPTION				
				
CHARACTERISTICS				
EQUIVALENT FOCAL LENGTH 4.5 in. (112.6 mm)		TRANSMITTANCE 80%		
BACK FOCAL DISTANCE 2.2 in. (56.4 mm)		COLOR CORRECTION 5000-7000Å		
FRONT VERTEX BACK FOCAL DISTANCE 6.07 in. (154.4 mm)		DISTORTION (Maximum) .01%		
FLANGE FOCAL DISTANCE		LENS CELL DIAMETER (Maximum) 3.34 in. (95 mm)		
SEMI-FIELD ANGLE 19°		OVERALL LENGTH 3.93 in. (100 mm)		
RELATIVE APERTURE f/1.4		WEIGHT		
REMARKS:				

FOCAL LENGTH 4.5 in.	RELATIVE APERTURE f/1.4	FORMAT 2.25 in. x 2.25 in.	MANUFACTURER Aerojet Delft Corp.
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Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	[Grid]																
	FILM <u>Agfa Isopan FF</u> TARGET CONTRAST <u>60:1</u> FILTER _____																
RADIAL	[Grid]																AWAR
TANGENTIAL	[Grid]																<u>48</u> L/mm
	FILM _____ TARGET CONTRAST _____ FILTER _____																
RADIAL	[Grid]																AWAR
TANGENTIAL	[Grid]																_____ L/mm
	FILM _____ TARGET CONTRAST _____ FILTER _____																
RADIAL	[Grid]																AWAR
TANGENTIAL	[Grid]																_____ L/mm
	VISUAL _____ TARGET CONTRAST _____ FILTER _____																
RADIAL	[Grid]																
TANGENTIAL	[Grid]																



LENS DATA INFORMATION SHEET <i>(Reference MIL-STD-150A for definition of terms and methods of measurement)</i>			DATE 15 Sept. 1967	
TYPE (MIL-STD-150A) Type I Aerial Reconnaissance		NAME Super Speed Rayxar		
FOCAL LENGTH 6 in.	RELATIVE APERTURE f/0.75	FORMAT 2.25 in. dia	MANUFACTURER Aerojet-Delft	
STOCK NO.	SPECIFICATION NO.	STATUS Development		
GENERAL DESCRIPTION				
				
CHARACTERISTICS				
EQUIVALENT FOCAL LENGTH 6 in. (150 mm)		TRANSMITTANCE 83% (T-0.82); 68% (T-0.91) in 89B red light		
BACK FOCAL DISTANCE 0.272 in. (from glass plate)		COLOR CORRECTION		
FRONT VERTEX BACK FOCAL DISTANCE		DISTORTION (<i>Maximum</i>)		
FLANGE FOCAL DISTANCE		LENS CELL DIAMETER (<i>Maximum</i>) 10 in.		
SEMI-FIELD ANGLE 10°		OVERALL LENGTH 10 in.		
RELATIVE APERTURE f/0.75		WEIGHT 45 lbs		
REMARKS:				

FOCAL LENGTH 6 in.	RELATIVE APERTURE f/0.75	FORMAT 2.25 in. dia	MANUFACTURER Aerojet-Delft
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Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)

0	2.5	5	7.5	10															
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FILM 5424 TARGET CONTRAST 1000:1 FILTER 89B

RADIAL	20	25	20	19	13															
TANGENTIAL	20	24	20	17	--															

AWAR
15 L/mm

FILM SO 243 TARGET CONTRAST 1000:1 FILTER _____

RADIAL	96	80	80	52	37															
TANGENTIAL	96	84	75	30	35															

AWAR
52 L/mm

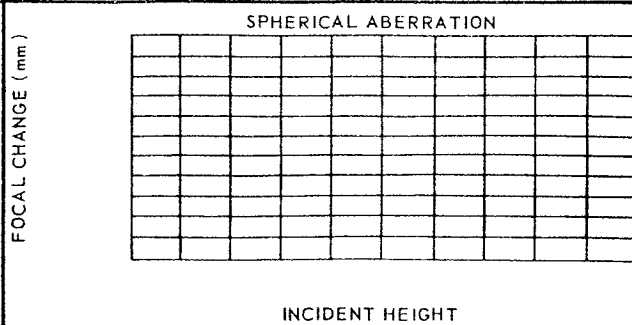
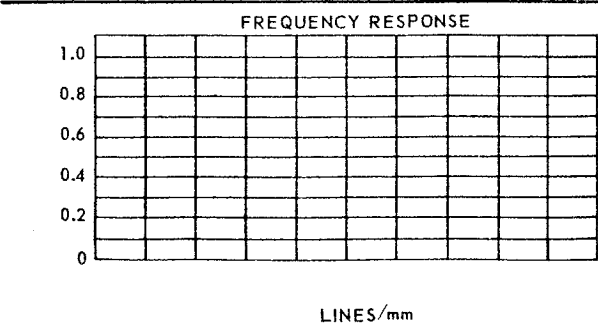
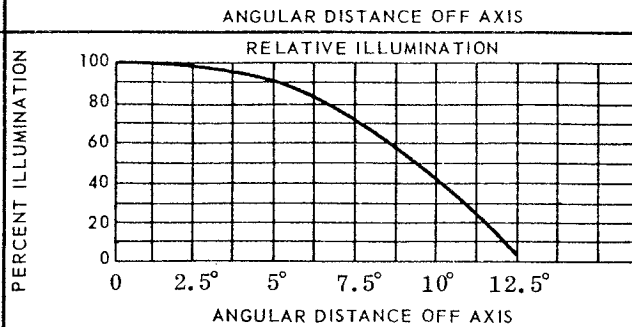
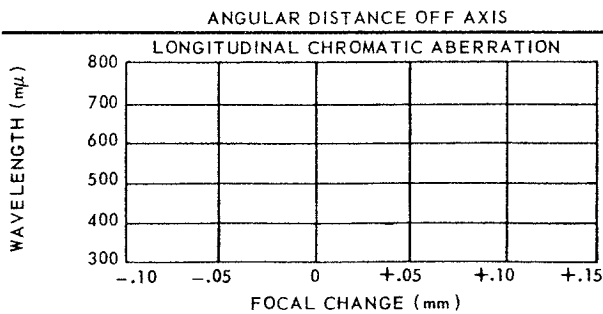
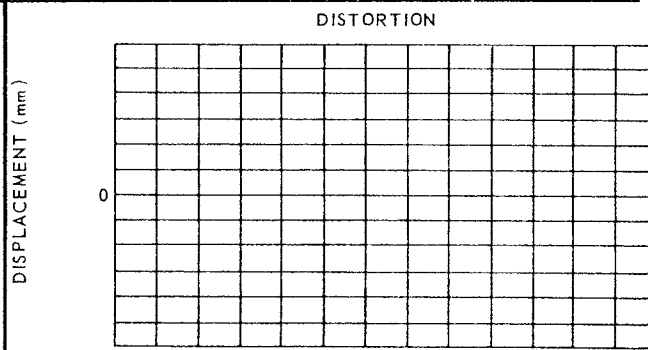
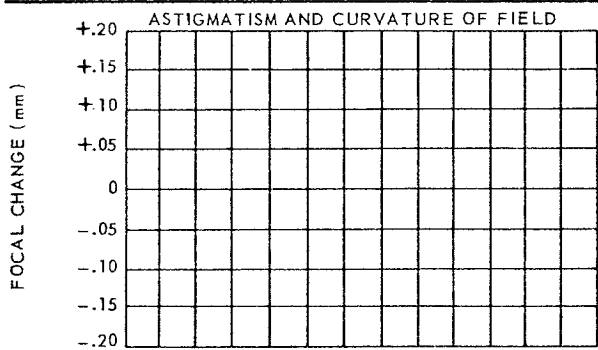
FILM Plus X TARGET CONTRAST 1000:1 FILTER _____

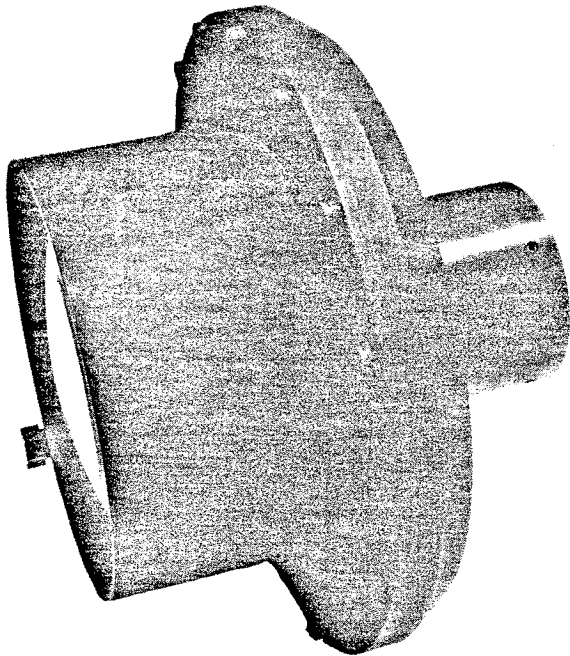
RADIAL	22	28	30	23	22															
TANGENTIAL	26	25	25	27	10															

AWAR
22 L/mm

VISUAL _____ TARGET CONTRAST 1000:1 FILTER _____

RADIAL	400																			
TANGENTIAL	400																			



LENS DATA INFORMATION SHEET <i>(Reference MIL-STD-150A for definition of terms and methods of measurement)</i>				DATE 15 Sept. 1967	
TYPE (MIL-STD-150A) Type I Aerial Reconnaissance			NAME Super Farron		
FOCAL LENGTH 6 in.		RELATIVE APERTURE f/0.87		FORMAT 2.25 in. x 2.25 in.	
STOCK NO.		SPECIFICATION NO.		MANUFACTURER Farrand Optical Co.	
				STATUS Development	
GENERAL DESCRIPTION					
					
CHARACTERISTICS					
EQUIVALENT FOCAL LENGTH 6 in. (150 mm)			TRANSMITTANCE 77% (T-1)		
BACK FOCAL DISTANCE 0.506 in.			COLOR CORRECTION		
FRONT VERTEX BACK FOCAL DISTANCE			DISTORTION (<i>Maximum</i>)		
FLANGE FOCAL DISTANCE			LENS CELL DIAMETER (<i>Maximum</i>) 7.63 in.		
SEMI-FIELD ANGLE 15°			OVERALL LENGTH 8.8 in.		
RELATIVE APERTURE f/0.87			WEIGHT 24 lbs		
REMARKS:					

FOCAL LENGTH 6 in.	RELATIVE APERTURE f/0.87	FORMAT 2.25 in. x 2.25 in.	MANUFACTURER Farrand Optical Co.
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Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)

0	2.5	5	7.5	10	12.5														
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FILM S.O. 243 TARGET CONTRAST 1000:1 FILTER _____

RADIAL	70	101	74	56	46	52													
TANGENTIAL	90	101	100	73	68	67													

AWAR
65 L/mm

FILM Plus X Aerographic TARGET CONTRAST 1000:1 FILTER _____

RADIAL	31	37	30	30	25	24													
TANGENTIAL	35	47	35	28	27	29													

AWAR
29 L/mm

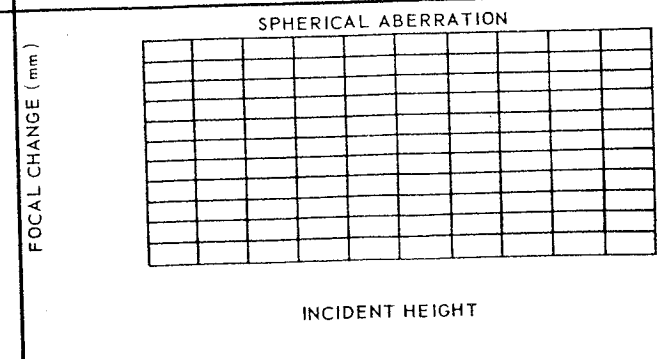
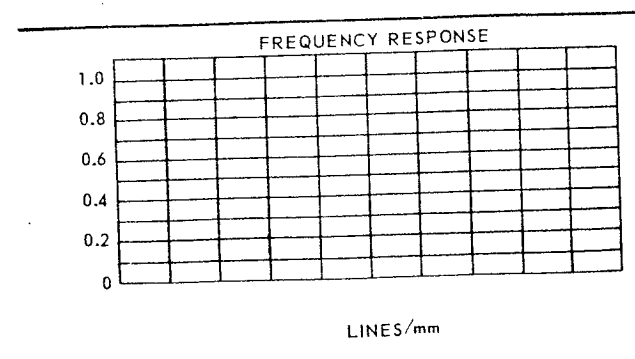
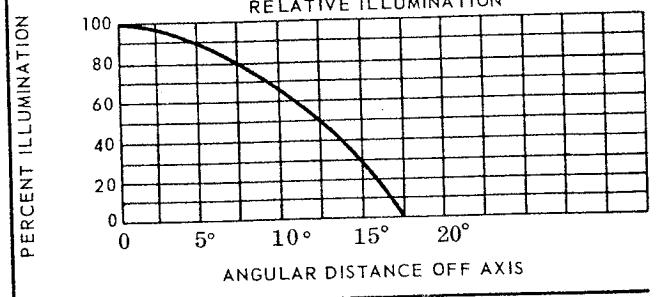
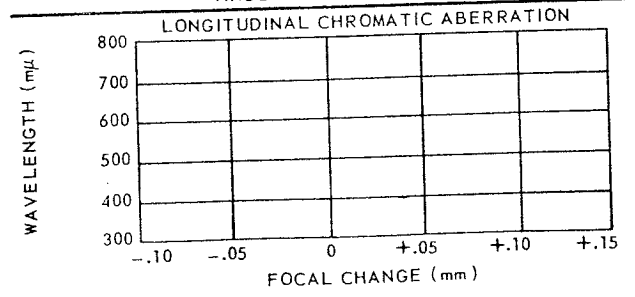
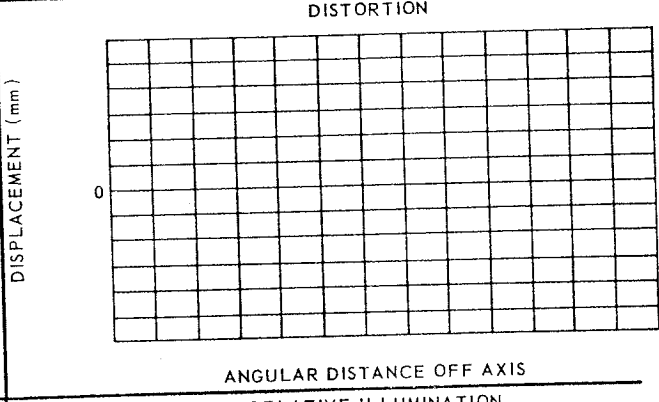
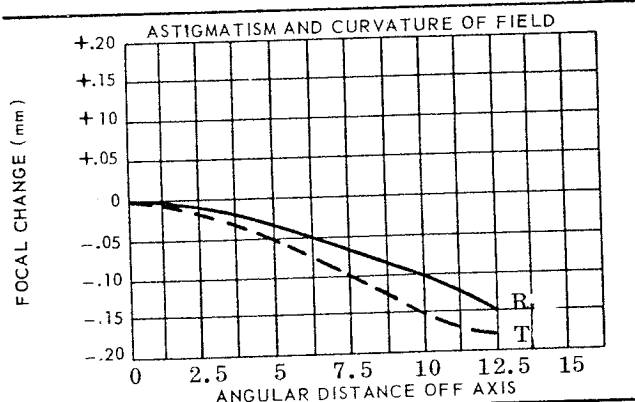
FILM _____ TARGET CONTRAST _____ FILTER _____

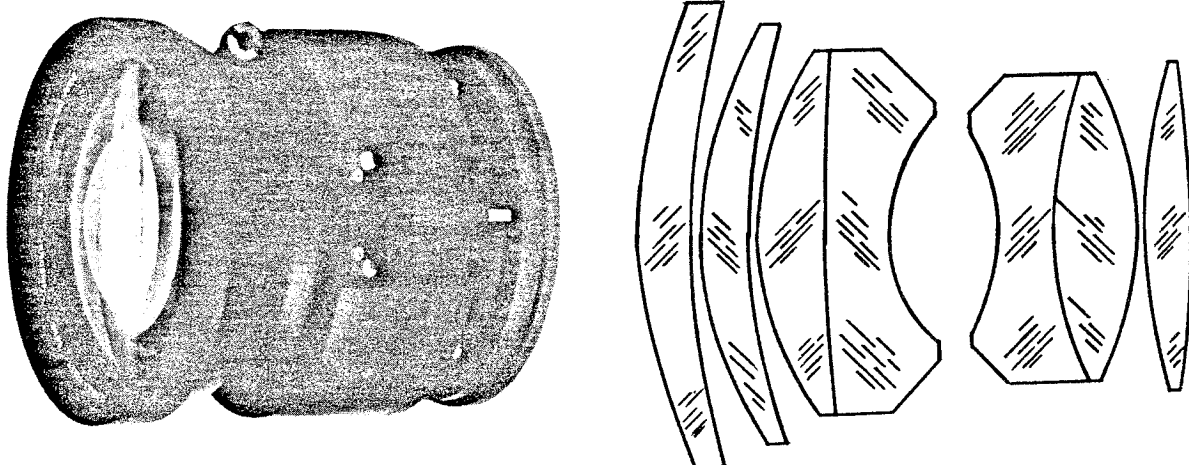
RADIAL																			
TANGENTIAL																			

AWAR
_____ L/mm

VISUAL _____ TARGET CONTRAST 1000:1 FILTER _____

RADIAL	633																		
TANGENTIAL	633																		



LENS DATA INFORMATION SHEET <i>(Reference MIL-STD-150A for definition of terms and methods of measurement)</i>			DATE 15 Sept. 1967	
TYPE (MIL-STD-150A) Type I Aerial Reconnaissance		NAME Deltamar		
FOCAL LENGTH 6 in.	RELATIVE APERTURE f/1.5	FORMAT 2.25 in. x 2.25 in.	MANUFACTURER Aerojet Delft Corp.	
STOCK NO. Aerojet Delft P/N 33AG		SPECIFICATION NO.		STATUS Production
GENERAL DESCRIPTION				
				
CHARACTERISTICS				
EQUIVALENT FOCAL LENGTH 6 in. (154.4 mm)		TRANSMITTANCE 80%		
BACK FOCAL DISTANCE 2.93 in. (75.4 mm)		COLOR CORRECTION 5000 - 7000Å		
FRONT VERTEX BACK FOCAL DISTANCE 5.29 in. (134.4 mm)		DISTORTION (<i>Maximum</i>) .1%		
FLANGE FOCAL DISTANCE		LENS CELL DIAMETER (<i>Maximum</i>) 5.38 in.		
SEMI-FIELD ANGLE 14°		OVERALL LENGTH 8.36 in.		
RELATIVE APERTURE f/1.5		WEIGHT 9.75 lbs		
REMARKS:				

FOCAL LENGTH 6 in.	RELATIVE APERTURE f/1.5	FORMAT 2.25 in. x 2.25 in.	MANUFACTURER Aerojet Delft Corp.
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Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)

0	5	10	15																
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FILM Panatomic X TARGET CONTRAST 1000:1 FILTER W-12

RADIAL	110	83	45	80															
TANGENTIAL	110	82	44	49															

AWAR
69 L/mm

FILM _____ TARGET CONTRAST _____ FILTER _____

RADIAL																			
TANGENTIAL																			

AWAR
_____ L/mm

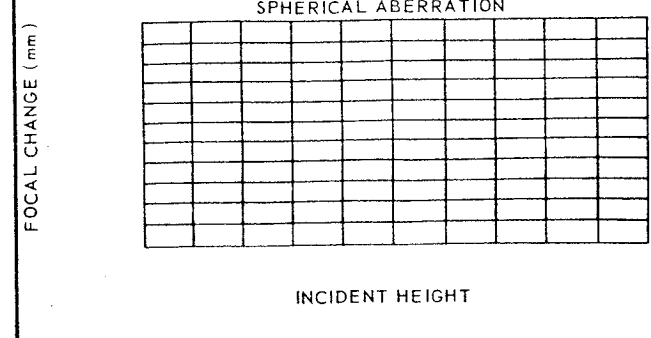
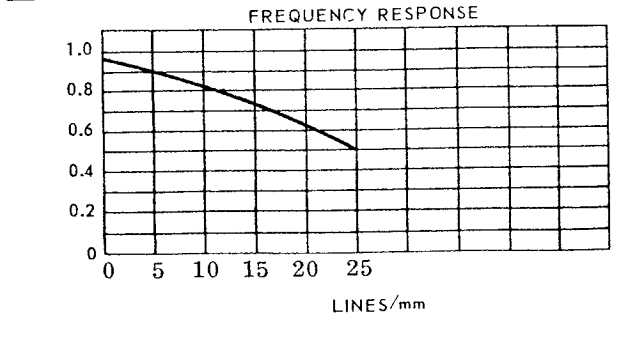
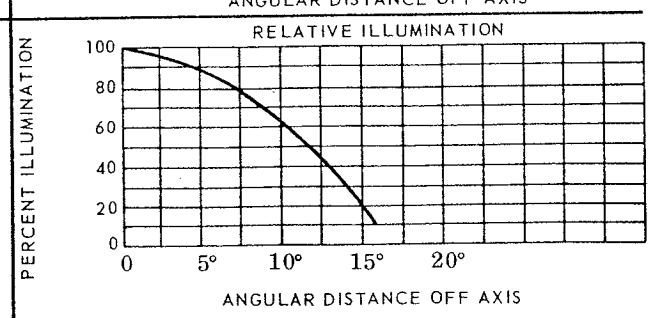
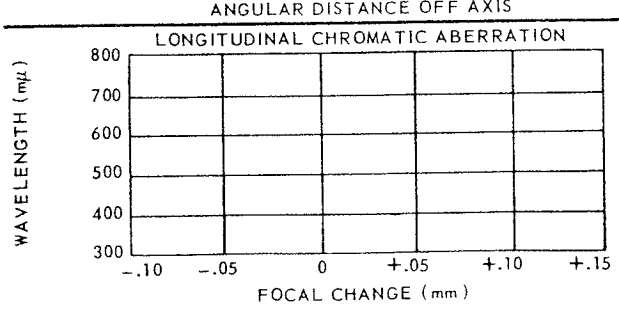
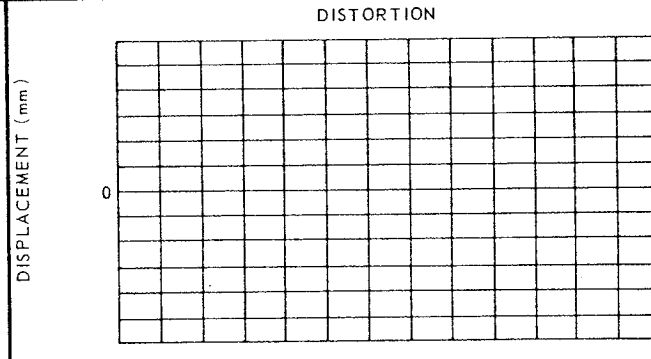
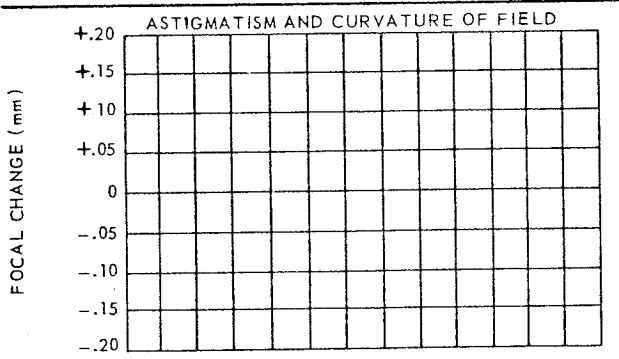
FILM _____ TARGET CONTRAST _____ FILTER _____

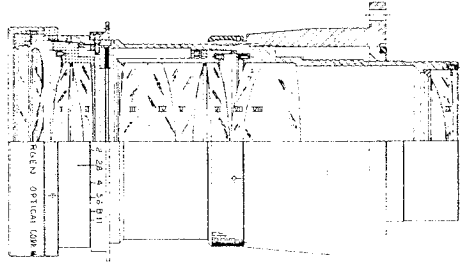
RADIAL																			
TANGENTIAL																			

AWAR
_____ L/mm

VISUAL _____ TARGET CONTRAST _____ FILTER _____

RADIAL																			
TANGENTIAL																			

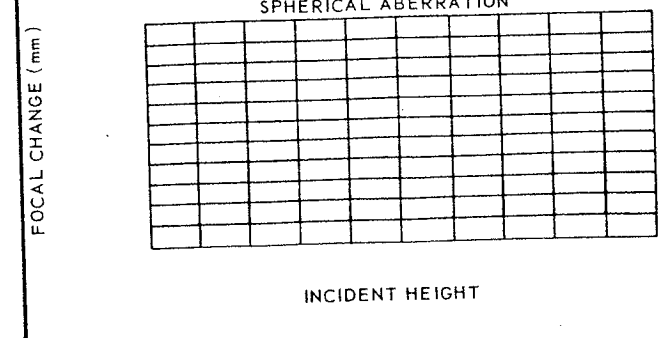
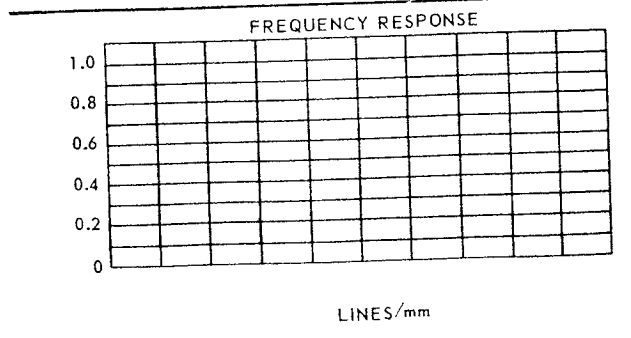
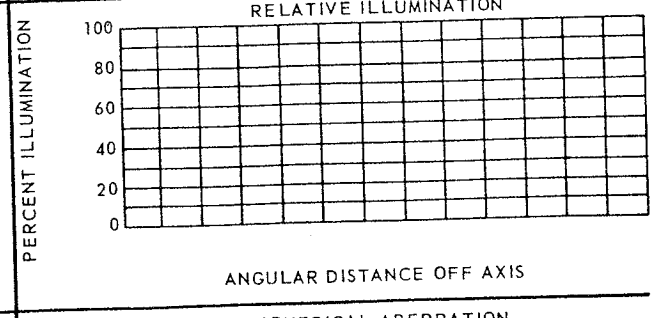
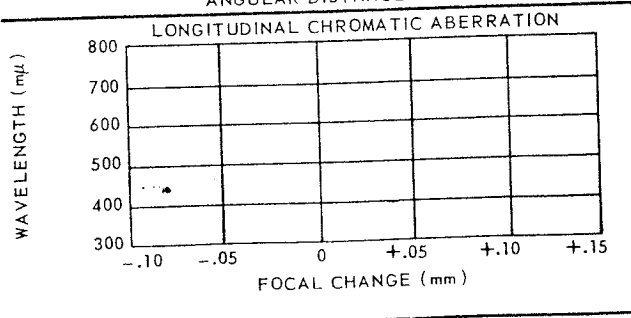
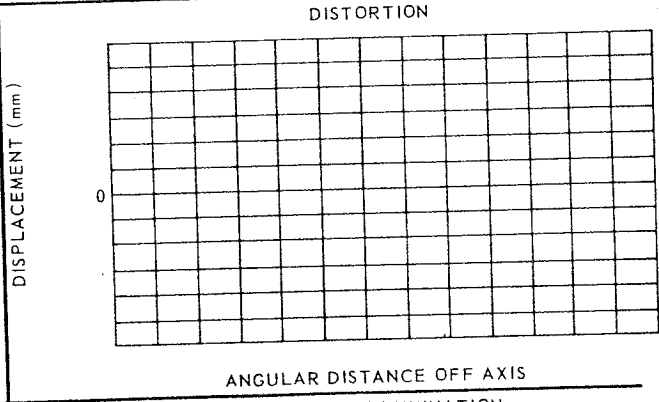
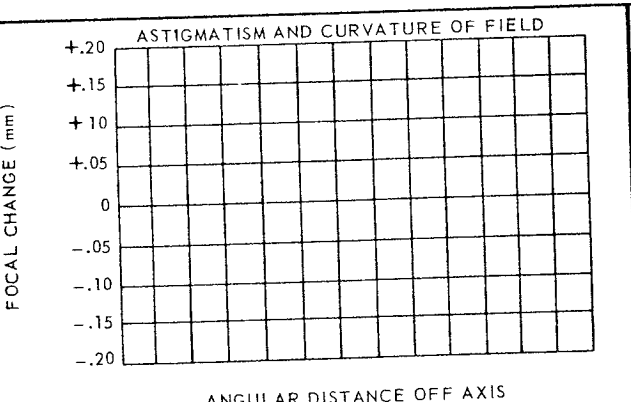


LENS DATA INFORMATION SHEET <i>(Reference MIL-STD-150A for definition of terms and methods of measurement)</i>			DATE 15 Sept. 1967	
TYPE (MIL-STD-150A) Type I Aerial Reconnaissance		NAME		
FOCAL LENGTH 6 in.	RELATIVE APERTURE f/2.0	FORMAT 2.25 in. x 2.25 in.	MANUFACTURER Kollmorgen Corp.	
STOCK NO.		SPECIFICATION NO.		STATUS
GENERAL DESCRIPTION				
				
CHARACTERISTICS				
EQUIVALENT FOCAL LENGTH 6 in. (152.4 mm)		TRANSMITTANCE		
BACK FOCAL DISTANCE 1.03 in.		COLOR CORRECTION Visible		
FRONT VERTEX BACK FOCAL DISTANCE 8.905 in.		DISTORTION (<i>Maximum</i>)		
FLANGE FOCAL DISTANCE 2.312 in.		LENS CELL DIAMETER (<i>Maximum</i>) 5.5 in.		
SEMI-FIELD ANGLE 15°		OVERALL LENGTH 8.870 in. with filter		
RELATIVE APERTURE f/2.0		WEIGHT		
REMARKS:				

FOCAL LENGTH 6 in.	RELATIVE APERTURE f/2.0	FORMAT 2.25 in. x 2.25 in.	MANUFACTURER Kollmorgen Corp.
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Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	2.5	5	7.5	10.5	13	15												
FILM	Panatomic X							TARGET CONTRAST	High							FILTER		AWAR	
RADIAL	50	50	63	63	53	50	37												
TANGENTIAL	50	53	67	67	60	56	48												
FILM								TARGET CONTRAST								FILTER		AWAR	
RADIAL																			
TANGENTIAL																			
FILM								TARGET CONTRAST								FILTER		AWAR	
RADIAL																			
TANGENTIAL																			
VISUAL								TARGET CONTRAST								FILTER		AWAR	
RADIAL																			
TANGENTIAL																			



LENS DATA INFORMATION SHEET <i>(Reference MIL-STD-150A for definition of terms and methods of measurement)</i>			DATE 15 Sept. 1967	
TYPE (MIL-STD-150A) Type I Aerial Reconnaissance		NAME		
FOCAL LENGTH 6 in.	RELATIVE APERTURE f/2.4	FORMAT 2.25 in. x 2.25 in.	MANUFACTURER Leitz, Canada	
STOCK NO.	SPECIFICATION NO.	STATUS		
GENERAL DESCRIPTION				
CHARACTERISTICS				
EQUIVALENT FOCAL LENGTH 6 in. (152.4 mm)		TRANSMITTANCE 86%		
BACK FOCAL DISTANCE 4.228 in.		COLOR CORRECTION		
FRONT VERTEX BACK FOCAL DISTANCE 8.274 in.		DISTORTION (<i>Maximum</i>) 0.140 mm		
FLANGE FOCAL DISTANCE 6.244 in.		LENS CELL DIAMETER (<i>Maximum</i>) 3.190 in.		
SEMI-FIELD ANGLE 15°		OVERALL LENGTH 4.360 in.		
RELATIVE APERTURE f/2.4		WEIGHT 3 lb		
REMARKS: Used on the following aircraft camera: KS-71				

FOCAL LENGTH 6 in.	RELATIVE APERTURE f/2.4	FORMAT 2.25 in. x 2.25 in.	MANUFACTURER Leitz, Canada
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Photographic Resolving Power in Lines /mm

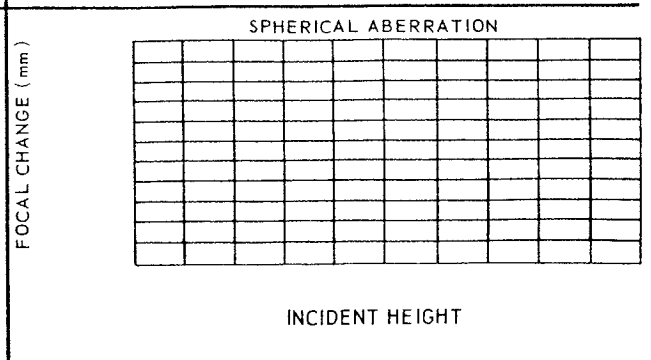
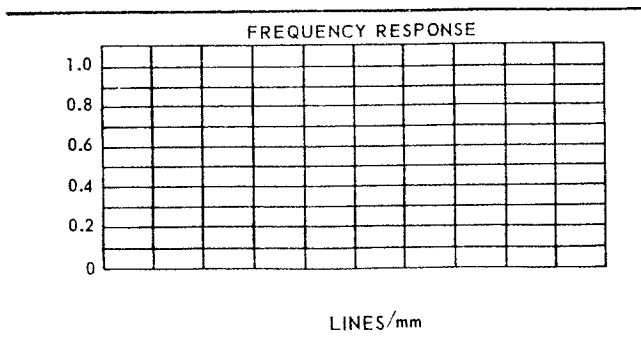
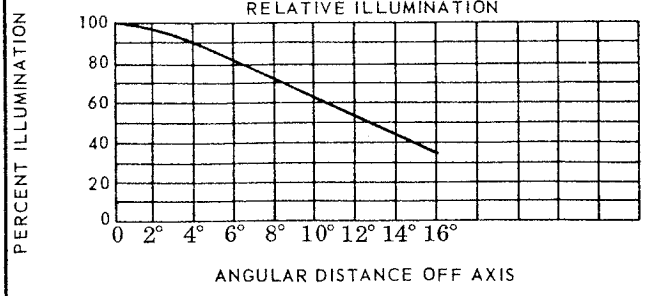
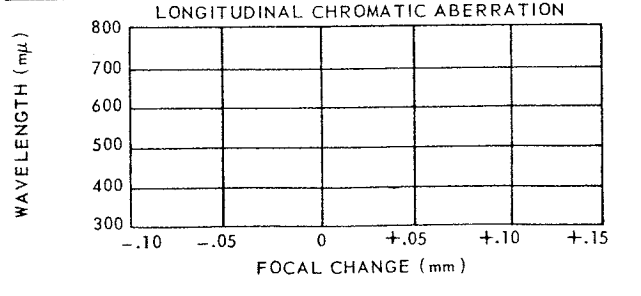
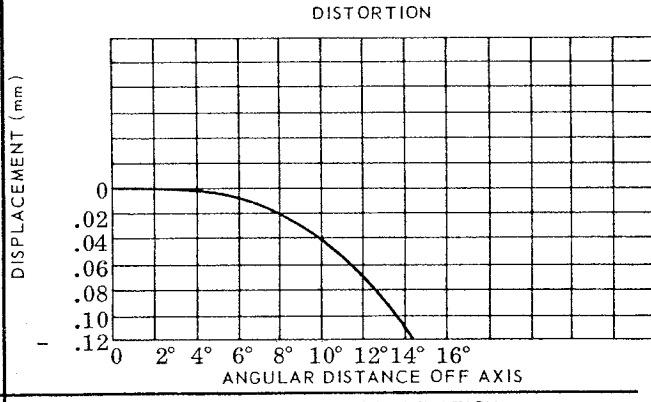
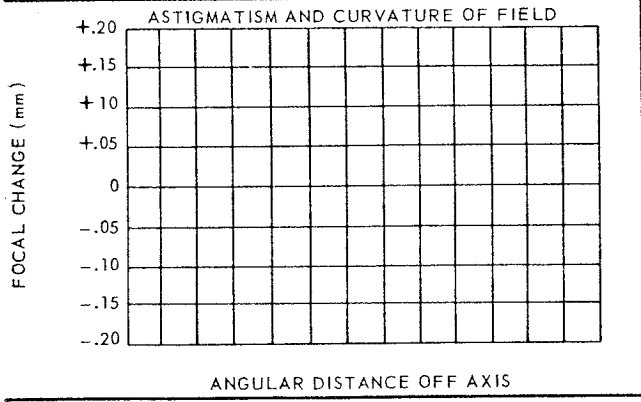
FIELD ANGLE (°)	0	2.5	5	7.5	10	12.5									
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FILM	SO 206											TARGET CONTRAST	High		FILTER	W-12		AWAR	
RADIAL	90	95	113	94	99	88												89	L/mm
TANGENTIAL	101	107	92	93	82	48													

FILM												TARGET CONTRAST			FILTER			AWAR	
RADIAL																			L/mm
TANGENTIAL																			

FILM												TARGET CONTRAST			FILTER			AWAR	
RADIAL																			L/mm
TANGENTIAL																			

VISUAL												TARGET CONTRAST			FILTER				
RADIAL																			
TANGENTIAL																			



LENS DATA INFORMATION SHEET				DATE	
<i>(Reference MIL-STD-150A for definition of terms and methods of measurement)</i>				15 Sept. 1967	
TYPE (MIL-STD-150A)			NAME		
Type I Aerial Reconnaissance					
FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER		
6 in.	f/2.8	2.25 in. x 2.25 in.	Bausch & Lomb, Inc.		
STOCK NO.		SPECIFICATION NO.		STATUS	
GENERAL DESCRIPTION					
CHARACTERISTICS					
EQUIVALENT FOCAL LENGTH			TRANSMITTANCE		
6 in. (152.4 mm)					
BACK FOCAL DISTANCE			COLOR CORRECTION		
FRONT VERTEX BACK FOCAL DISTANCE			DISTORTION (<i>Maximum</i>)		
FLANGE FOCAL DISTANCE			LENS CELL DIAMETER (<i>Maximum</i>)		
SEMI-FIELD ANGLE			OVERALL LENGTH		
15°					
RELATIVE APERTURE			WEIGHT		
f/2.8					
REMARKS:					
Used on the following aircraft cameras: KA-69A					

FOCAL LENGTH 6 in.	RELATIVE APERTURE f/2.8	FORMAT 2.25 in. x 2.25 in.	MANUFACTURER Bausch & Lomb Inc.
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Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	2.5	5	7.5	10	12.5	15												
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FILM Plus X Aerecon TARGET CONTRAST High FILTER W-12

RADIAL	50	38	33	40	33	30	26												
TANGENTIAL	35	38	40	25	21	24	19												

AWAR
30 L/mm

FILM _____ TARGET CONTRAST _____ FILTER _____

RADIAL																			
TANGENTIAL																			

AWAR
_____ L/mm

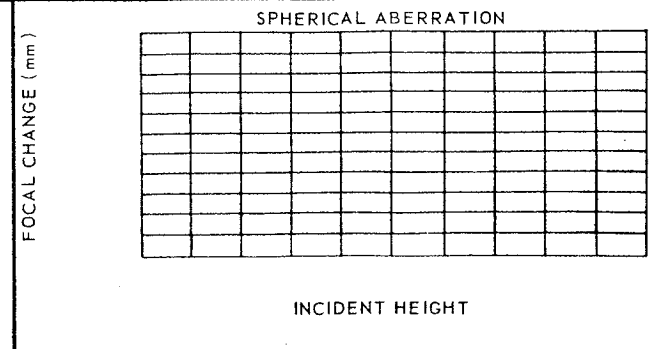
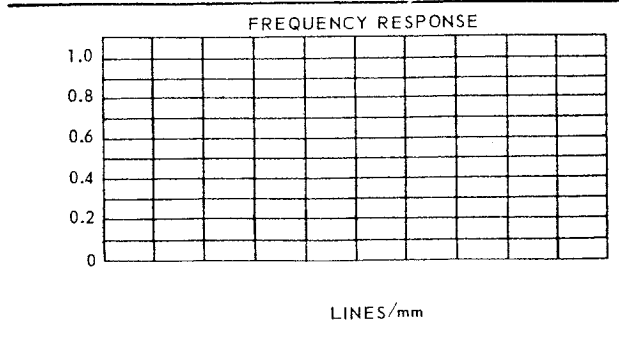
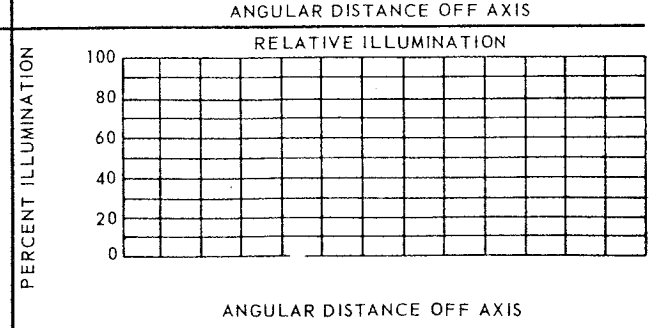
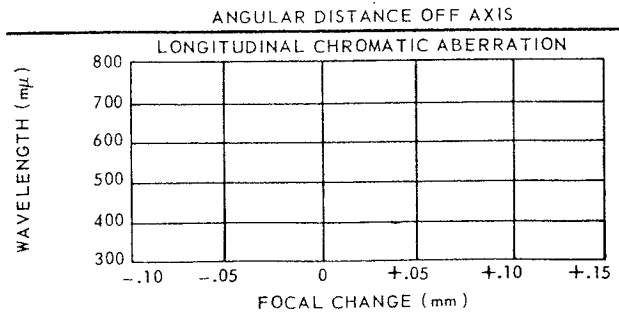
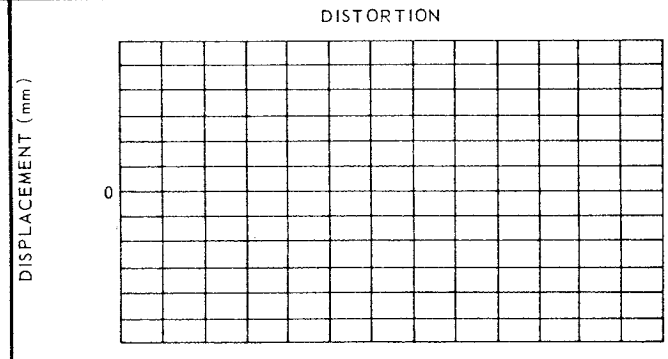
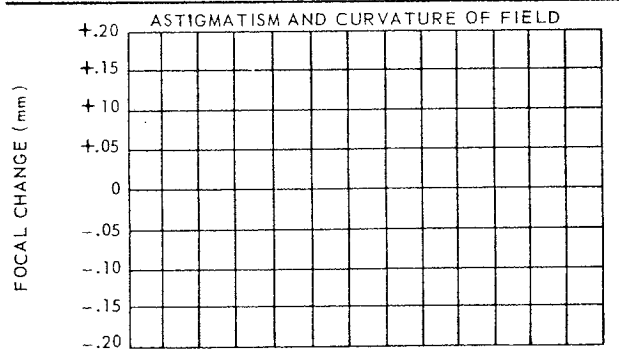
FILM _____ TARGET CONTRAST _____ FILTER _____

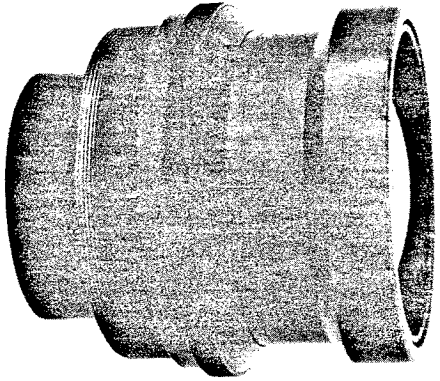
RADIAL																			
TANGENTIAL																			

AWAR
_____ L/mm

VISUAL _____ TARGET CONTRAST _____ FILTER _____

RADIAL																			
TANGENTIAL																			

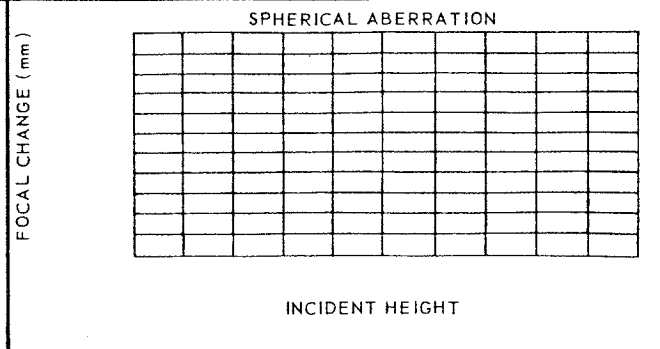
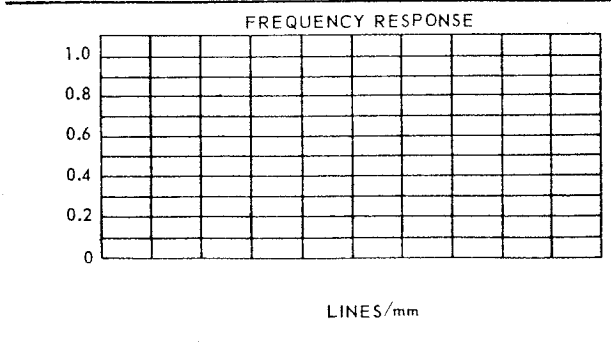
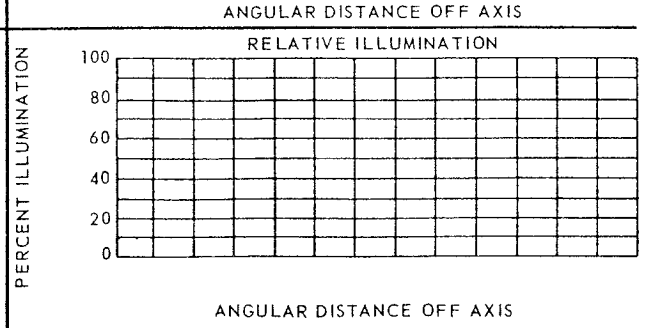
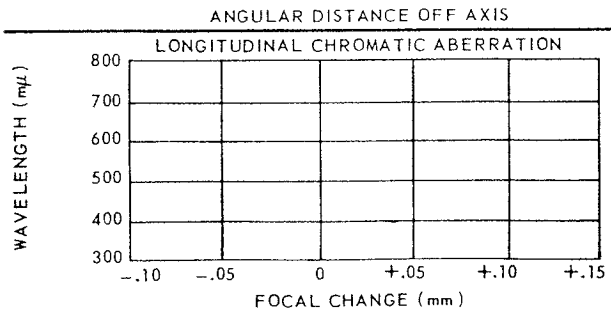
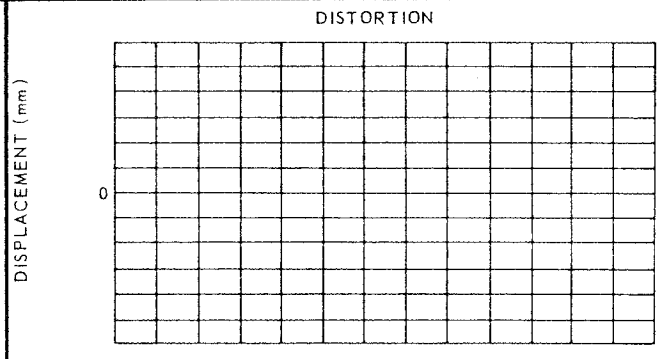
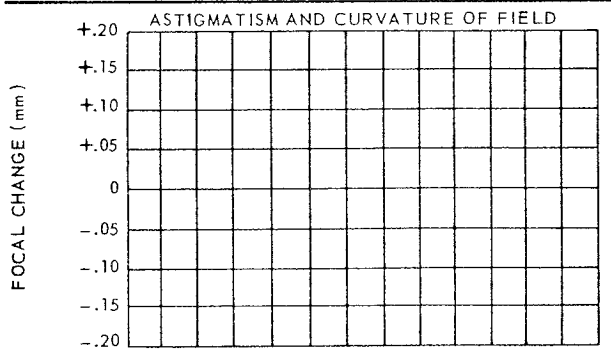


LENS DATA INFORMATION SHEET <i>(Reference MIL-STD-150A for definition of terms and methods of measurement)</i>			DATE 15 Sept. 1967	
TYPE (MIL-STD-150A) Type I Aerial Reconnaissance		NAME Aero-Ektar		
FOCAL LENGTH 6 in.	RELATIVE APERTURE f/2.8	FORMAT 2.25 in. x 2.25 in.	MANUFACTURER Eastman Kodak Co.	
STOCK NO. Eastman Kodak P/N SK-9437-1	SPECIFICATION NO.	STATUS Special Order		
GENERAL DESCRIPTION				
				
CHARACTERISTICS				
EQUIVALENT FOCAL LENGTH 6 in. (150.92 mm)		TRANSMITTANCE 85%		
BACK FOCAL DISTANCE 3.64 in. (92.51 mm)		COLOR CORRECTION 4861-6563Å		
FRONT VERTEX BACK FOCAL DISTANCE 7.71 in. (196.05 mm)		DISTORTION (<i>Maximum</i>) +.89 mm		
FLANGE FOCAL DISTANCE		LENS CELL DIAMETER (<i>Maximum</i>) 4.21 in. (106.93 mm)		
SEMI-FIELD ANGLE 15°		OVERALL LENGTH 4.33 in. (110.00 mm)		
RELATIVE APERTURE f/2.8		WEIGHT 4.3 lbs		
REMARKS:				

FOCAL LENGTH 6 in.	RELATIVE APERTURE f/2.8	FORMAT 2.25 in. x 2.25 in.	MANUFACTURER Eastman Kodak Co.
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Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	5	10	15																
	FILM <u>Super XX</u>				TARGET CONTRAST <u>High</u>				FILTER <u>W-12</u>								AWAR			
AVERAGE RADIAL AND TANGENTIAL	56	63	49	33																_____ L/mm
	FILM <u>Super X</u>				TARGET CONTRAST <u>High</u>				FILTER <u>W-12</u>								AWAR			
AVERAGE RADIAL AND TANGENTIAL	45	45	39	33																_____ L/mm
	FILM <u>IR</u>				TARGET CONTRAST _____				FILTER _____								AWAR			
AVERAGE RADIAL AND TANGENTIAL	40	35	34	26																_____ L/mm
	VISUAL _____				TARGET CONTRAST _____				FILTER _____								AWAR			
RADIAL																				_____ L/mm
TANGENTIAL																				_____ L/mm



LENS DATA INFORMATION SHEET <i>(Reference MIL-STD-150A for definition of terms and methods of measurement)</i>			DATE 15 Sept. 1967	
TYPE (MIL-STD-150A) Type I Aerial Reconnaissance		NAME		
FOCAL LENGTH 6 in.	RELATIVE APERTURE f/2.8	FORMAT 2.25 in. x 2.25 in.	MANUFACTURER Fairchild Space & Defense Systems, El Segundo	
STOCK NO. Fairchild P/N 13018-MA	SPECIFICATION NO.	STATUS Production		
GENERAL DESCRIPTION				
<p style="text-align: center;">2.8737 2.412 C.A. DIA. 4 2006 B.F.</p>				
CHARACTERISTICS				
EQUIVALENT FOCAL LENGTH 6 in. (152.4 mm)		TRANSMITTANCE 80%		
BACK FOCAL DISTANCE 3.0020 in.		COLOR CORRECTION Wratten 12		
FRONT VERTEX BACK FOCAL DISTANCE 6.7887 in.		DISTORTION (<i>Maximum</i>)		
FLANGE FOCAL DISTANCE		LENS CELL DIAMETER (<i>Maximum</i>)		
SEMI-FIELD ANGLE 15°		OVERALL LENGTH		
RELATIVE APERTURE f/2.8		WEIGHT		
REMARKS:				

FOCAL LENGTH 6 in.	RELATIVE APERTURE f/2.8	FORMAT 2.25 in. x 2.25 in.	MANUFACTURER Fairchild Space & Defense Systems, El Segundo
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Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)

0	7.5	10.5	14.85																
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FILM Plus X Aerecon TARGET CONTRAST _____ FILTER _____

RADIAL

95	60	70	45																
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 TANGENTIAL

60	60	60	40																
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 AWAR _____ L/mm

FILM Panatomic X TARGET CONTRAST _____ FILTER _____

RADIAL

100	90	90	80																
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 TANGENTIAL

100	65	70	45																
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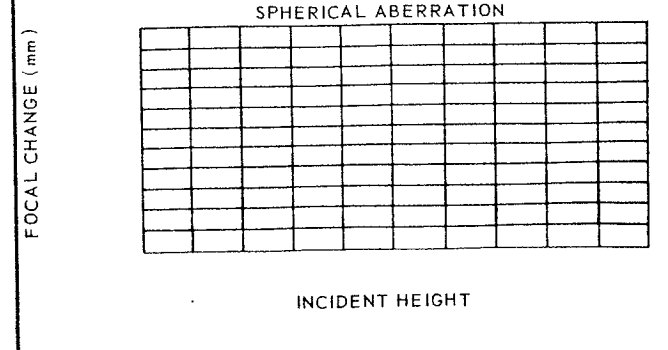
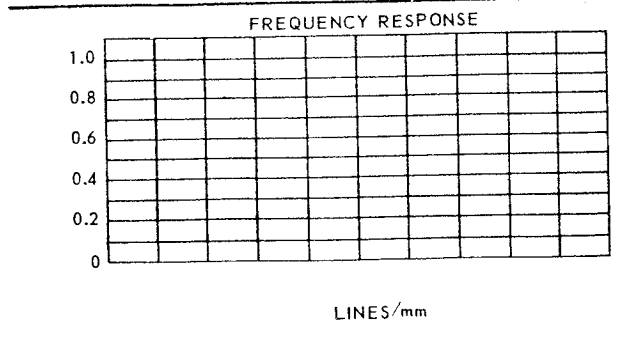
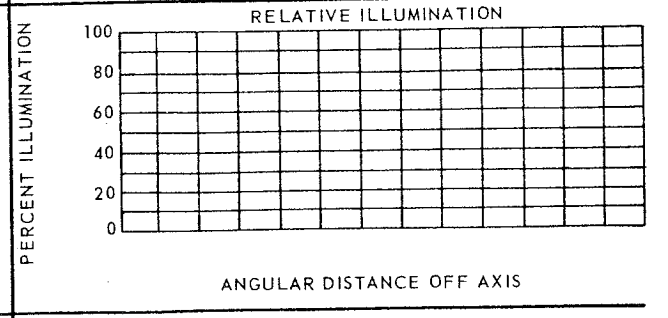
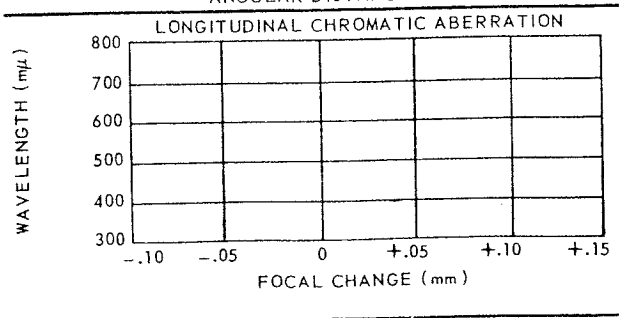
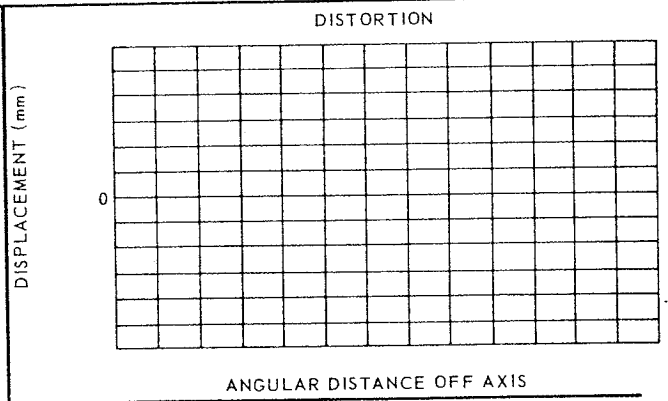
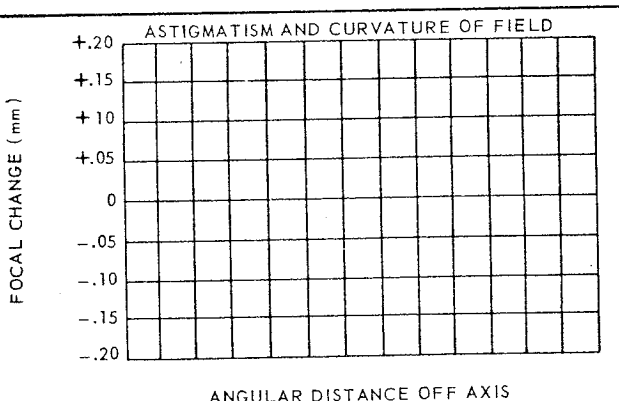
 AWAR _____ L/mm

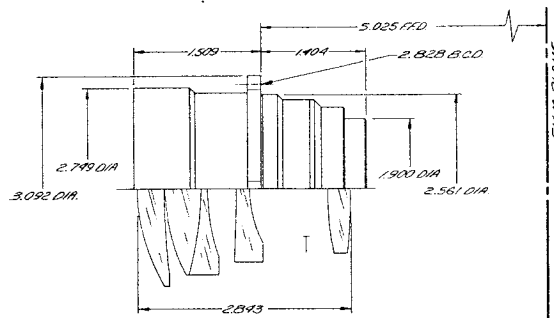
FILM _____ TARGET CONTRAST _____ FILTER _____

RADIAL _____ TANGENTIAL _____ AWAR _____ L/mm

VISUAL _____ TARGET CONTRAST _____ FILTER _____

RADIAL _____ TANGENTIAL _____

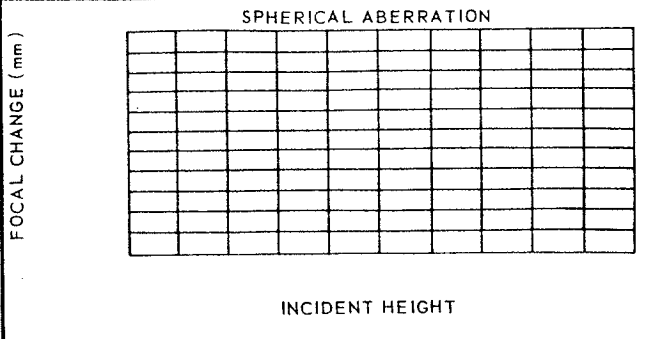
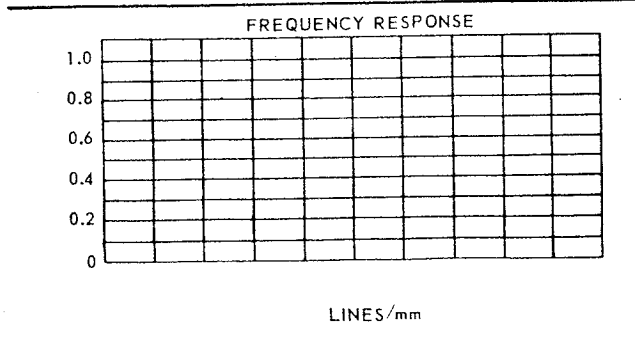
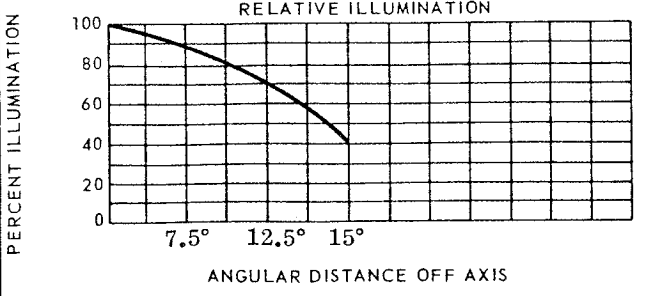
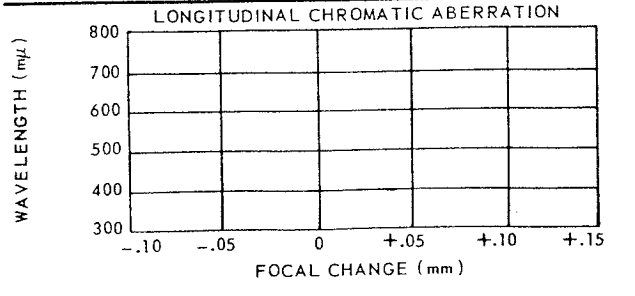
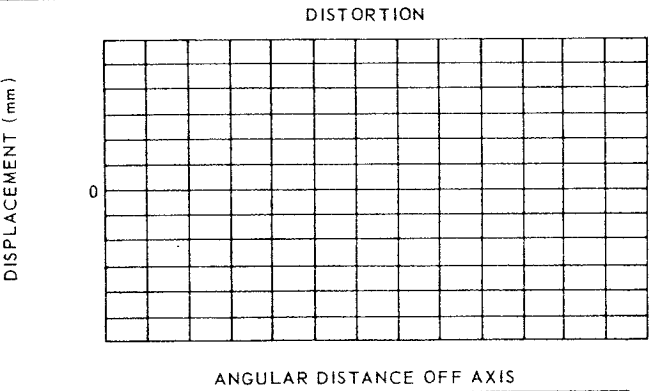
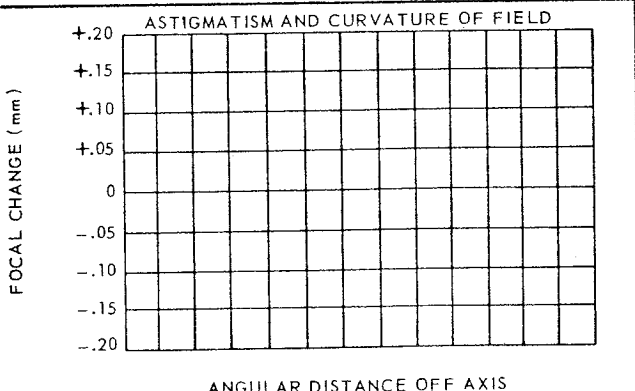


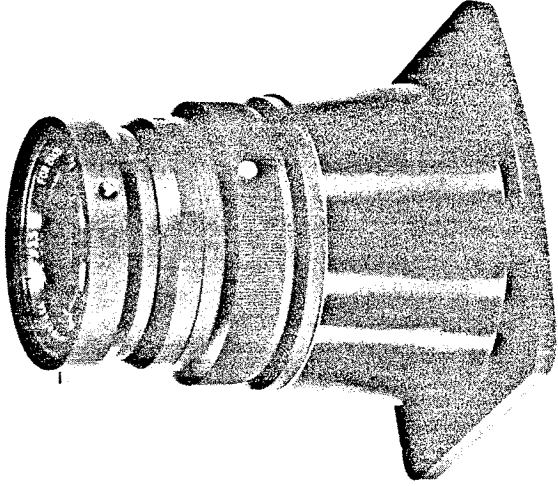
LENS DATA INFORMATION SHEET <i>(Reference MIL-STD-150A for definition of terms and methods of measurement)</i>			DATE 15 Sept. 1967	
TYPE (MIL-STD-150A) Type I Aerial Reconnaissance		NAME Paxar/Omicron		
FOCAL LENGTH 6 in.	RELATIVE APERTURE f/2.8	FORMAT 2.25 in. x 2.25 in.	MANUFACTURER Pacific Optical Corp.	
STOCK NO. Pacific Optical P/N 32990		SPECIFICATION NO.		STATUS
GENERAL DESCRIPTION				
 <p>The diagram is a cross-sectional view of a lens assembly. It shows several optical elements: a front lens with a diameter of 2.749 DIA, a front lens cell with a diameter of 3.092 DIA, a lens element with a diameter of 1.500 DIA, and a rear lens with a diameter of 2.561 DIA. The overall length of the assembly is 2.913. Key distances are marked: 1.509 from the front lens to the front lens cell, 1.404 from the front lens cell to the lens element, and 5.025 FFD (Front Focal Distance) from the front lens to the focal plane. The back focal distance (B.C.D.) is 2.828. A vertical dashed line on the right indicates the 'FOCAL PLANE'.</p>				
CHARACTERISTICS				
EQUIVALENT FOCAL LENGTH 6 in. (152.4 mm)		TRANSMITTANCE 75%		
BACK FOCAL DISTANCE 3.64 in.		COLOR CORRECTION 5461-6563 Å		
FRONT VERTEX BACK FOCAL DISTANCE 6.483 in.		DISTORTION (<i>Maximum</i>)		
FLANGE FOCAL DISTANCE 5.025 in.		LENS CELL DIAMETER (<i>Maximum</i>) 2.749 in.		
SEMI-FIELD ANGLE 15°		OVERALL LENGTH 2.913 in.		
RELATIVE APERTURE f/2.8		WEIGHT		
REMARKS:				

FOCAL LENGTH 6 in.	RELATIVE APERTURE f/2.8	FORMAT 2.25 in. x 2.25 in.	MANUFACTURER Pacific Optical Corp.
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Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	7.5	12.5																	
	FILM Pan X		TARGET CONTRAST High		FILTER W-12															
AVERAGE RADIAL AND TANGENTIAL	76	54	56																	AWAR _____ L/mm
AVERAGE RADIAL AND TANGENTIAL	FILM _____		TARGET CONTRAST _____		FILTER _____															AWAR _____ L/mm
AVERAGE RADIAL AND TANGENTIAL	FILM _____		TARGET CONTRAST _____		FILTER _____															AWAR _____ L/mm
RADIAL TANGENTIAL	VISUAL _____		TARGET CONTRAST _____		FILTER _____															AWAR _____ L/mm



LENS DATA INFORMATION SHEET			DATE	
<i>(Reference MIL-STD-150A for definition of terms and methods of measurement)</i>			15 Sept. 1967	
TYPE (MIL-STD-150A)		NAME		
Type I Aerial Reconnaissance				
FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER	
6 in.	f/3.5	2.25 in. x 2.25 in.	Bausch & Lomb, Inc.	
STOCK NO.	SPECIFICATION NO.	STATUS		
GENERAL DESCRIPTION				
				
CHARACTERISTICS				
EQUIVALENT FOCAL LENGTH		TRANSMITTANCE		
6 in. (153.01 mm)		84%		
BACK FOCAL DISTANCE		COLOR CORRECTION		
3.67 in. (93.34 mm)				
FRONT VERTEX BACK FOCAL DISTANCE		DISTORTION (<i>Maximum</i>)		
6.95 in. (176.53 mm)				
FLANGE FOCAL DISTANCE		LENS CELL DIAMETER (<i>Maximum</i>)		
4.33 in. (109.98 mm)				
SEMI-FIELD ANGLE		OVERALL LENGTH		
17.5°				
RELATIVE APERTURE		WEIGHT		
f/3.5		3 lbs		
REMARKS:				
Used on the following aircraft cameras: KB-14				

FOCAL LENGTH <p style="text-align: center;">6 in.</p>	RELATIVE APERTURE <p style="text-align: center;">f/3.5</p>	FORMAT <p style="text-align: center;">2.25 in. x 2.25 in.</p>	MANUFACTURER <p style="text-align: center;">Bausch & Lomb, Inc.</p>
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Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)

0	2.5	5	7.5	10	12.5	15	17.5										
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RADIAL

FILM Super XX TARGET CONTRAST High FILTER _____

32	32	31	28	31	31	31	27										
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AWAR _____ L/mm

TANGENTIAL

32	35	31	28	31	27	23	20										
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RADIAL

FILM _____ TARGET CONTRAST _____ FILTER _____

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AWAR _____ L/mm

TANGENTIAL

RADIAL

FILM _____ TARGET CONTRAST _____ FILTER _____

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AWAR _____ L/mm

TANGENTIAL

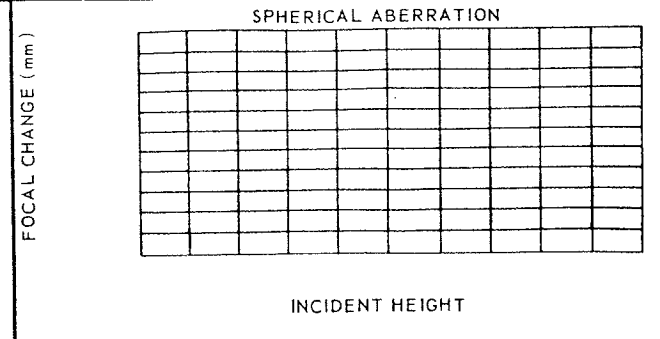
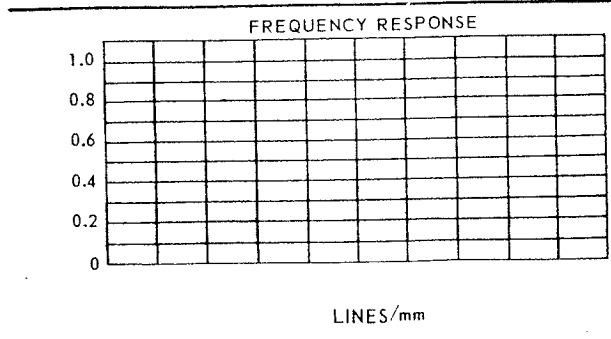
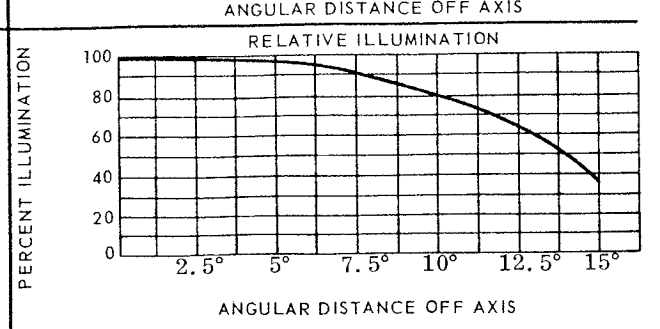
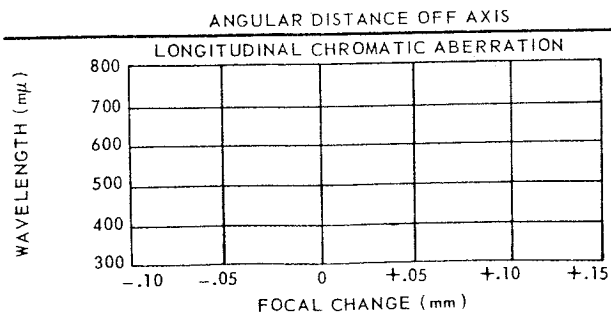
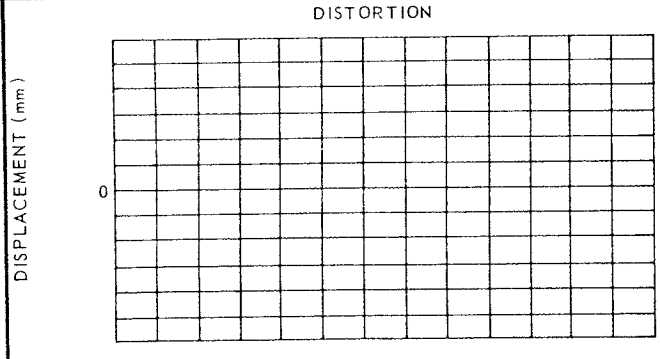
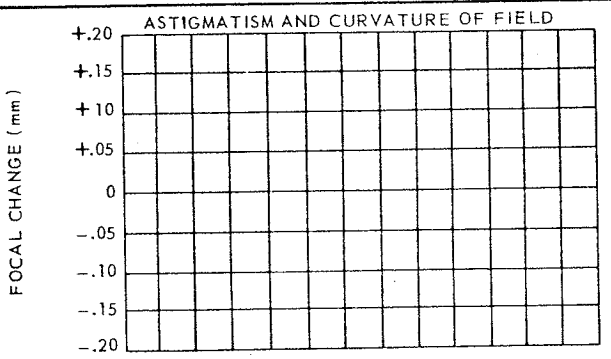
RADIAL

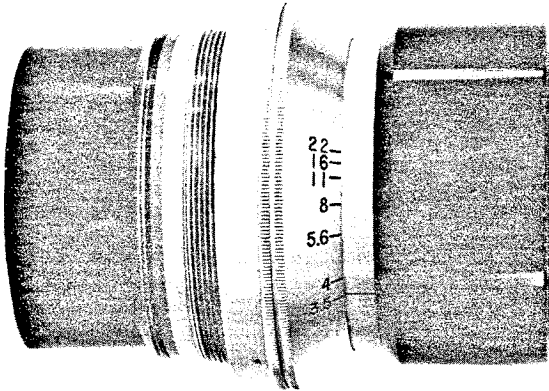
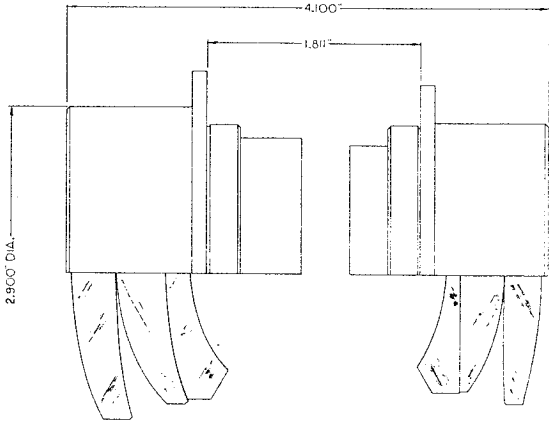
VISUAL _____ TARGET CONTRAST _____ FILTER _____

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TANGENTIAL

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LENS DATA INFORMATION SHEET <i>(Reference MIL-STD-150A for definition of terms and methods of measurement)</i>			DATE 15 Sept. 1967	
TYPE (MIL-STD-150A) Type I Aerial Reconnaissance		NAME Aero Ektar		
FOCAL LENGTH 6 in.	RELATIVE APERTURE f/3.5	FORMAT 2.25 in. x 2.25 in.	MANUFACTURER Eastman Kodak Co.	
STOCK NO. Eastman Kodak P/N 829871		SPECIFICATION NO.	STATUS Special Order	
GENERAL DESCRIPTION				
				
CHARACTERISTICS				
EQUIVALENT FOCAL LENGTH 6 in. (152.58 mm)		TRANSMITTANCE 89%		
BACK FOCAL DISTANCE 3.68 in. (93.43 mm)		COLOR CORRECTION 4500-6000Å		
FRONT VERTEX BACK FOCAL DISTANCE 7.67 in. (194.91 mm)		DISTORTION (<i>Maximum</i>) -.21 at 14° 42'		
FLANGE FOCAL DISTANCE		LENS CELL DIAMETER (<i>Maximum</i>) 3.5 in.		
SEMI-FIELD ANGLE 15°		OVERALL LENGTH 4.1 in.		
RELATIVE APERTURE f/3.5		WEIGHT		
REMARKS: Used on the following aircraft cameras: KA-43, KA-44				

FOCAL LENGTH 6 in.	RELATIVE APERTURE f/3.5	FORMAT 2.25 in. x 2.25 in.	MANUFACTURER Eastman Kodak Co.
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Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	2.5	5	7.5	10	12.5	15												
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FILM Super XX TARGET CONTRAST High FILTER W-12

RADIAL	63	53	63	56	43	34	31												
TANGENTIAL	56	56	57	49	49	45	37												

AWAR
49 L/mm

FILM SO-1121 TARGET CONTRAST Medium FILTER W-12

RADIAL	56	60	53	50	35	27	27												
TANGENTIAL	63	71	53	46	46	38	39												

AWAR
55 L/mm

FILM PAN X TARGET CONTRAST High FILTER W-12

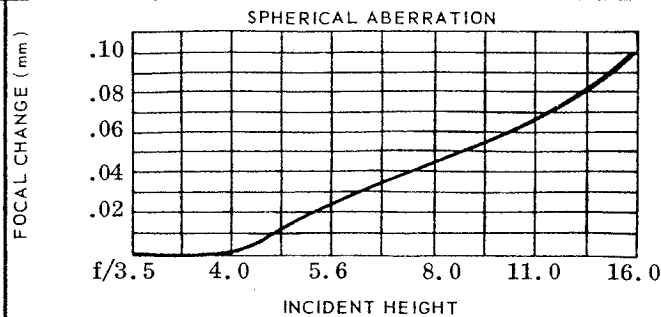
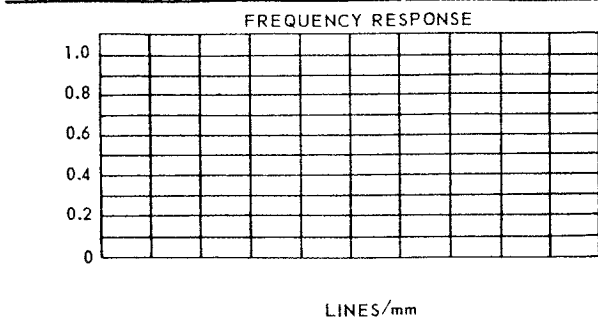
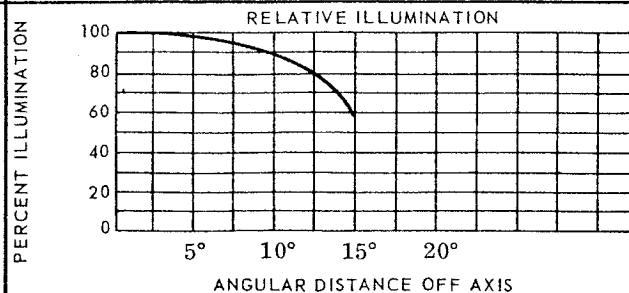
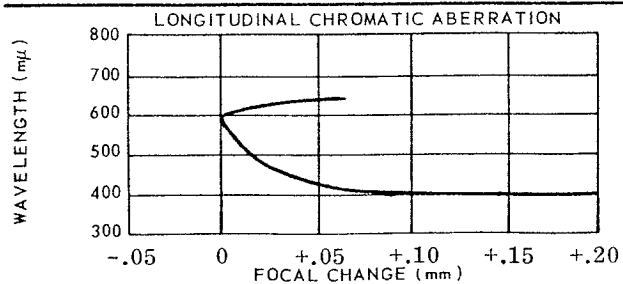
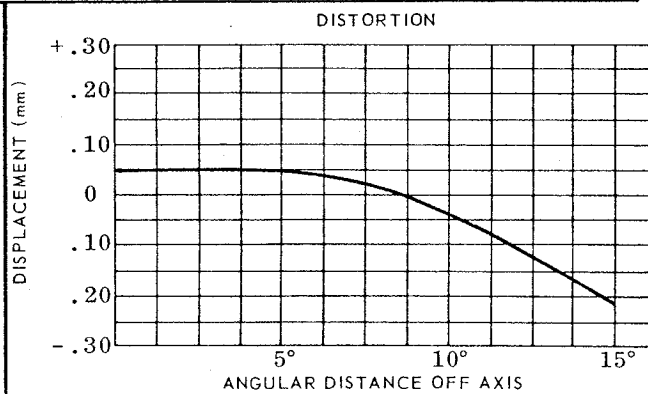
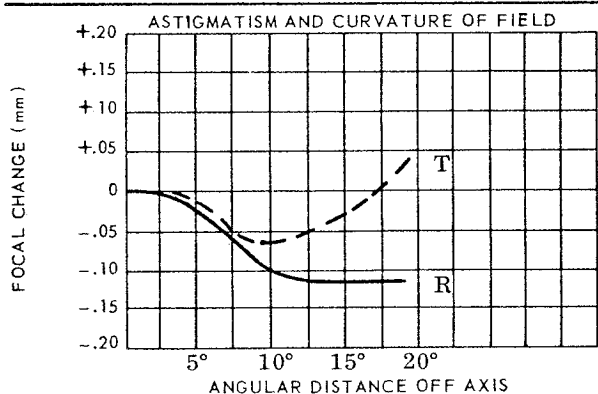
RADIAL	63	80	76	62	52	41	44												
TANGENTIAL	71	89	76	66	58	53	41												

AWAR
58 L/mm

FILM 548C TARGET CONTRAST High FILTER W-12

RADIAL	316	316	200	198	197	195	195												
TANGENTIAL	256	316	249	197	109	120	59												

AWAR
203 L/mm

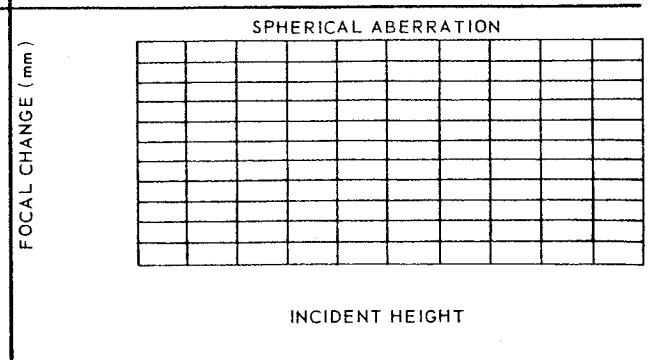
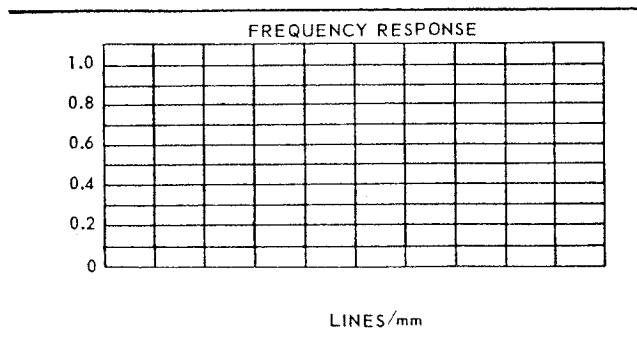
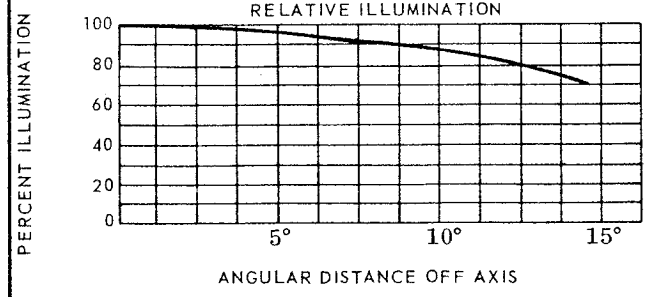
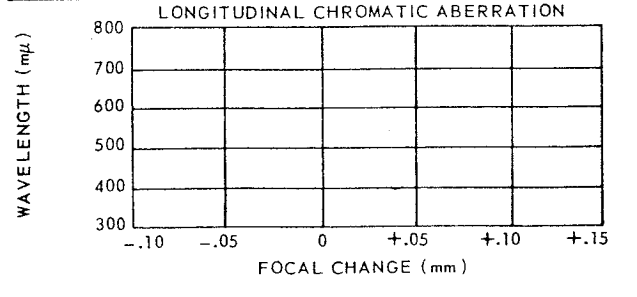
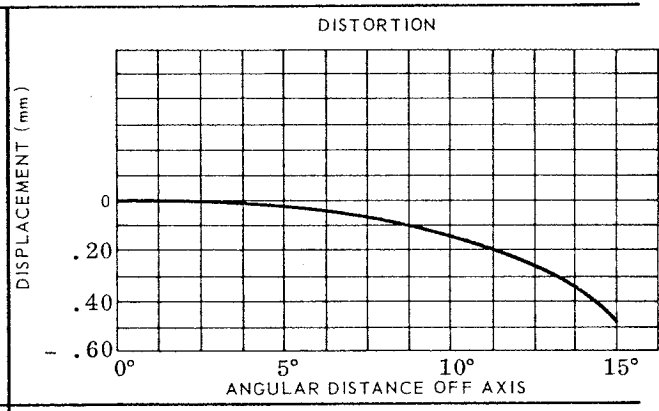
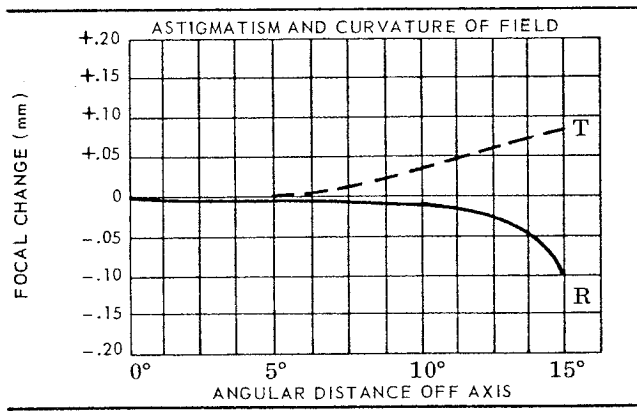


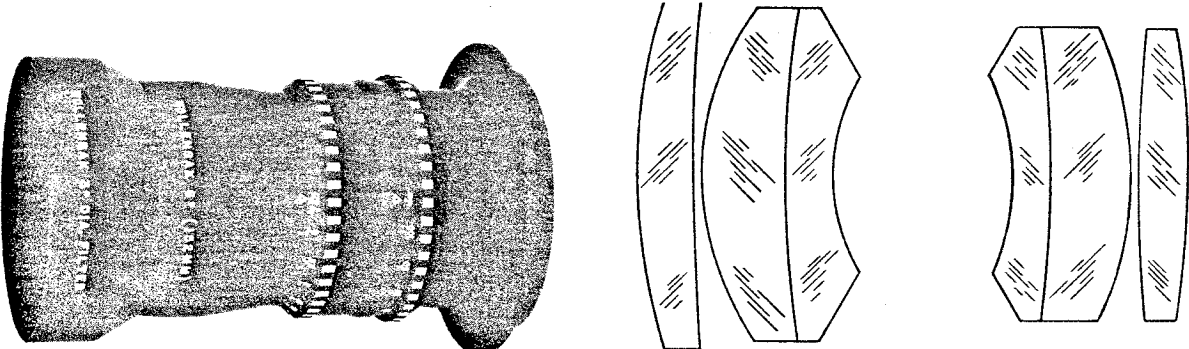
LENS DATA INFORMATION SHEET <i>(Reference MIL-STD-150A for definition of terms and methods of measurement)</i>			DATE 15 Sept. 1967	
TYPE (MIL-STD-150A) Type I Aerial Reconnaissance		NAME Aero Ektar, Infrared		
FOCAL LENGTH 6 in.	RELATIVE APERTURE f/3.5	FORMAT 2.25 in. x 2.25	MANUFACTURER Eastman Kodak Co.	
STOCK NO. Eastman Kodak P/N SK-9919-1A	SPECIFICATION NO.	STATUS		
GENERAL DESCRIPTION				
CHARACTERISTICS				
EQUIVALENT FOCAL LENGTH 6 in. (151.25 mm)		TRANSMITTANCE 92% at 7500Å		
BACK FOCAL DISTANCE 3.69 in. (93.75 mm)		COLOR CORRECTION 6560-9000Å		
FRONT VERTEX BACK FOCAL DISTANCE 7.70 in. (195.75 mm)		DISTORTION (<i>Maximum</i>) -.48 mm at 15°		
FLANGE FOCAL DISTANCE 5.20 in. (132.05 mm)		LENS CELL DIAMETER (<i>Maximum</i>) 3.37 in. (85.75 mm)		
SEMI-FIELD ANGLE 15°		OVERALL LENGTH 4.13 in. (104.90 mm)		
RELATIVE APERTURE f/3.5		WEIGHT 2 lbs		
REMARKS:				

FOCAL LENGTH 6 in.	RELATIVE APERTURE f/3.5	FORMAT 2.25 in. x 2.25 in.	MANUFACTURER Eastman Kodak Co.
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Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	5	10	15																		
FILM	High Speed Infrared 5218																TARGET CONTRAST	High		FILTER	W-25	
AVERAGE RADIAL AND TANGENTIAL	50	50	39	27																		
AVERAGE RADIAL AND TANGENTIAL	FILM _____ TARGET CONTRAST _____ FILTER _____																AWAR	_____ L/mm				
AVERAGE RADIAL AND TANGENTIAL	FILM _____ TARGET CONTRAST _____ FILTER _____																AWAR	_____ L/mm				
RADIAL TANGENTIAL	VISUAL _____ TARGET CONTRAST _____ FILTER _____																					



LENS DATA INFORMATION SHEET <i>(Reference MIL-STD-150A for definition of terms and methods of measurement)</i>			DATE 15 Sept. 1967	
TYPE (MIL-STD-150A) Type I Aerial Reconnaissance		NAME Aero Raptar		
FOCAL LENGTH 6 in.	RELATIVE APERTURE f/3.5	FORMAT 2.25 in. x 2.25 in.	MANUFACTURER 3M-Wollensak	
STOCK NO.	SPECIFICATION NO.	STATUS		
GENERAL DESCRIPTION				
				
CHARACTERISTICS				
EQUIVALENT FOCAL LENGTH 6 in. (152.3 mm)		TRANSMITTANCE 88%		
BACK FOCAL DISTANCE 8.775 in.		COLOR CORRECTION Visible		
FRONT VERTEX BACK FOCAL DISTANCE		DISTORTION (<i>Maximum</i>)		
FLANGE FOCAL DISTANCE 3.031 in.		LENS CELL DIAMETER (<i>Maximum</i>) 4.480 in.		
SEMI-FIELD ANGLE 17.5°		OVERALL LENGTH 7.125 in.		
RELATIVE APERTURE f/3.5		WEIGHT		
REMARKS:				

FOCAL LENGTH 6 in.	RELATIVE APERTURE f/3.5	FORMAT 2.25 in. x 2.25 in.	MANUFACTURER 3M-Wollensak
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Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	5	10	15	17.5														
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FILM	Microfile					TARGET CONTRAST	High					FILTER								
RADIAL	212	170	47	82	92															
TANGENTIAL	212	135	116	100	77															

AWAR _____ L/mm

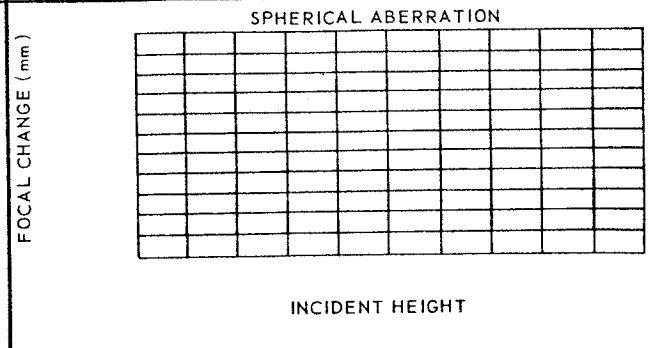
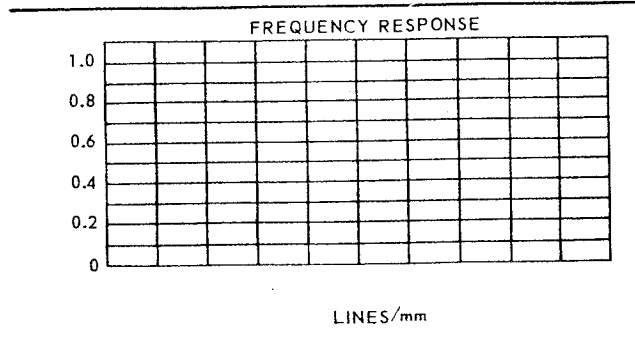
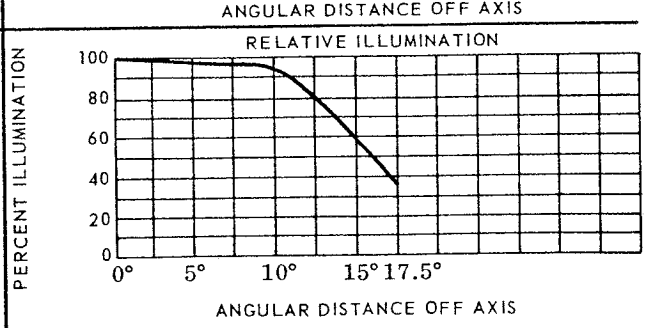
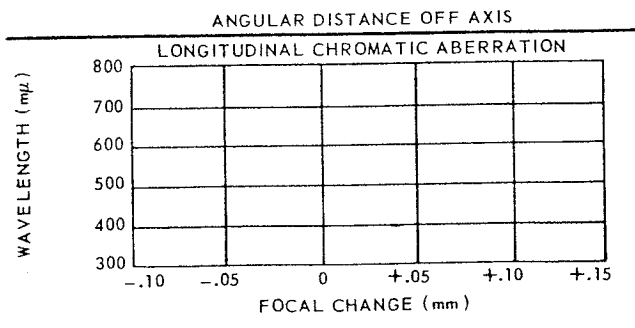
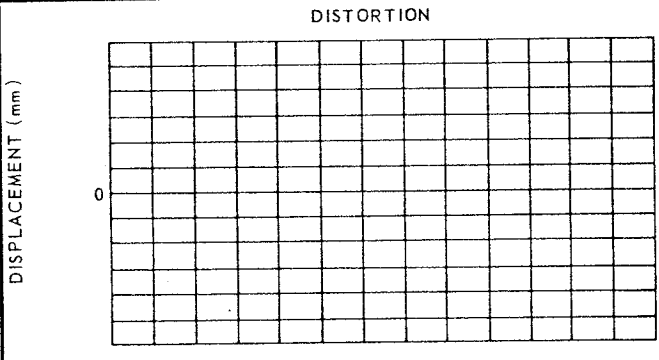
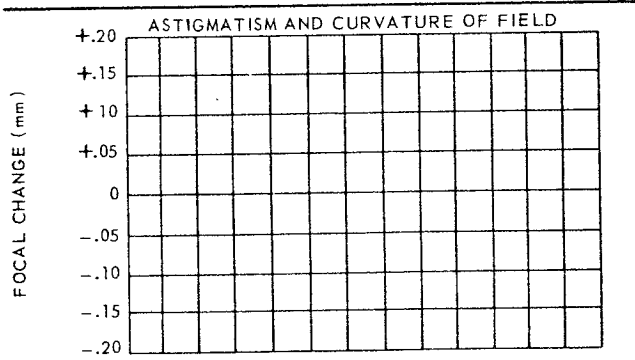
FILM											TARGET CONTRAST											FILTER	
RADIAL																							
TANGENTIAL																							

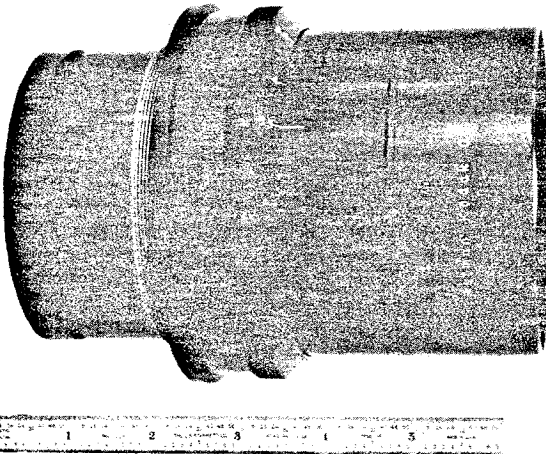
AWAR _____ L/mm

FILM											TARGET CONTRAST											FILTER	
RADIAL																							
TANGENTIAL																							

AWAR _____ L/mm

VISUAL											TARGET CONTRAST											FILTER	
RADIAL																							
TANGENTIAL																							



LENS DATA INFORMATION SHEET			DATE	
(Reference MIL-STD-150A for definition of terms and methods of measurement)			15 Sept. 1967	
TYPE (MIL-STD-150A)		NAME		
Type I Aerial Reconnaissance		Aero Ektar		
FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER	
9 in.	f/3.3	2.25 in. x 2.25 in.	Eastman Kodak Co.	
STOCK NO.	SPECIFICATION NO.	STATUS		
Eastman Kodak P/N SK-9362-1		Special Order		
GENERAL DESCRIPTION				
				
CHARACTERISTICS				
EQUIVALENT FOCAL LENGTH	TRANSMITTANCE			
9 in. (230.56 mm)	85 %			
BACK FOCAL DISTANCE	COLOR CORRECTION			
5.63 in. (143.16 mm)	4861-6563Å (-.18 mm)			
FRONT VERTEX BACK FOCAL DISTANCE	DISTORTION (Maximum)			
11.53 in. (292.85 mm)	+.072			
FLANGE FOCAL DISTANCE	LENS CELL DIAMETER (Maximum)			
189.00 mm	4.21 in. (107.00 mm)			
SEMI-FIELD ANGLE	OVERALL LENGTH			
15°	6 in. (154.00 mm)			
RELATIVE APERTURE	WEIGHT			
f/3.3	6.83 lbs			
REMARKS:				

FOCAL LENGTH 9 in.	RELATIVE APERTURE f/3.3	FORMAT 2.25 in. x 2.25 in.	MANUFACTURER Eastman Kodak Co.
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Photographic Resolving Power in Lines /mm

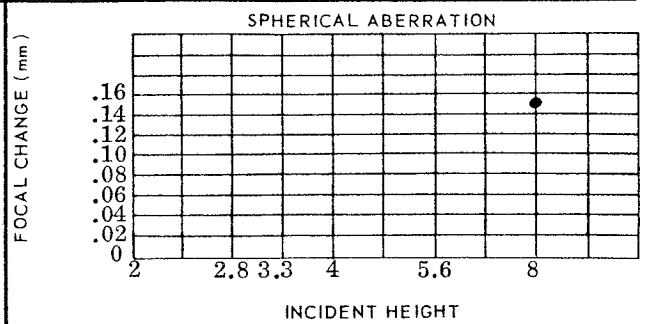
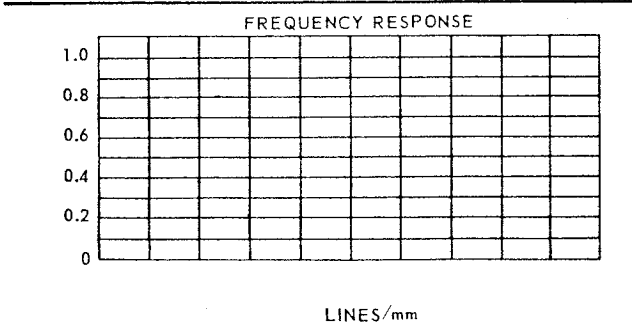
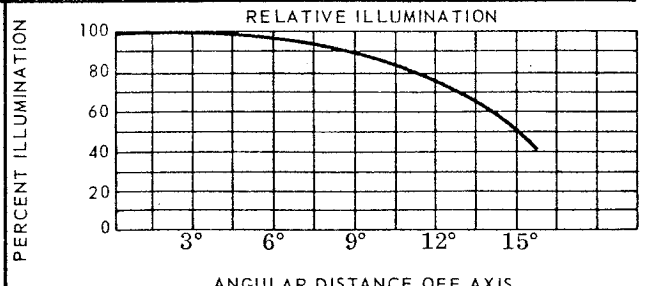
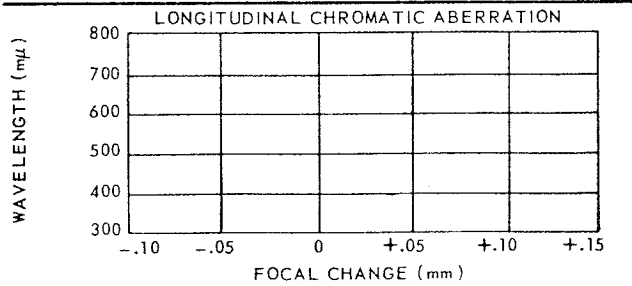
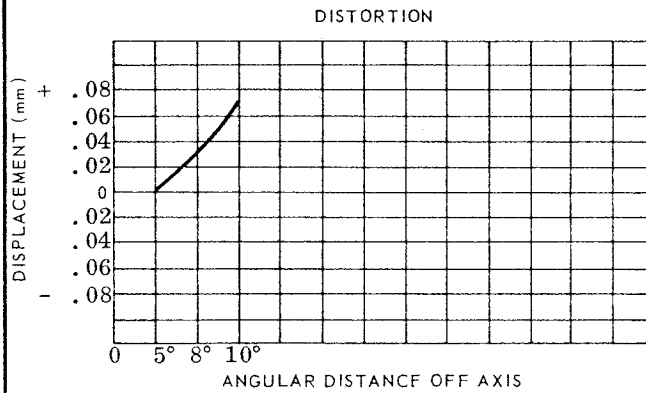
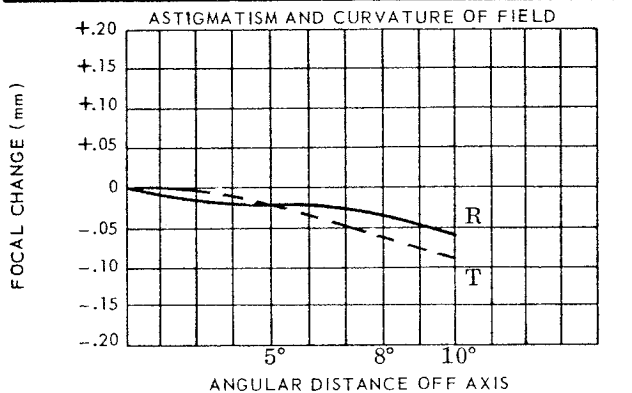
FIELD ANGLE (°)	0	2.5	5	7.5	10	12.5	15												
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FILM <u>Super XX</u>	TARGET CONTRAST <u>High</u>	FILTER <u>W-12</u>	AWAR																	
42	37	42	37	32	28	24														41 L/mm

FILM <u>Plus X Aerecon</u>	TARGET CONTRAST <u>High</u>	FILTER <u>W-12</u>	AWAR																	
53	42	47	37	41	36	23														47 L/mm

FILM <u>Tri X Aerecon</u>	TARGET CONTRAST <u>High</u>	FILTER <u>W-12</u>	AWAR																	
33	26	26	26	29	25	25														30 L/mm

FILM <u>Infrared</u>	TARGET CONTRAST _____	FILTER <u>W-25</u>	AWAR																	
30	26	30	23	23	18	17														29 L/mm



LENS DATA INFORMATION SHEET				DATE	
<i>(Reference MIL-STD-150A for definition of terms and methods of measurement)</i>				15 Sept. 1967	
TYPE (MIL-STD-150A)			NAME		
Type I Aerial Reconnaissance					
FOCAL LENGTH	RELATIVE APERTURE	FORMAT	MANUFACTURER		
9 in.	f/3.8	2.25 in. x .5 in. slit	Fairchild Space & Defense Systems, El Segundo		
STOCK NO.		SPECIFICATION NO.		STATUS	
Fairchild P/N 13016-MA				Production	
GENERAL DESCRIPTION					
CHARACTERISTICS					
EQUIVALENT FOCAL LENGTH			TRANSMITTANCE		
9 in. (228.6 mm)					
BACK FOCAL DISTANCE			COLOR CORRECTION		
6.0473 in.					
FRONT VERTEX BACK FOCAL DISTANCE			DISTORTION (<i>Maximum</i>)		
12.3028 in.					
FLANGE FOCAL DISTANCE			LENS CELL DIAMETER (<i>Maximum</i>)		
SEMI-FIELD ANGLE			OVERALL LENGTH		
10.03°			12.3028 in.		
RELATIVE APERTURE			WEIGHT		
f/3.8					
REMARKS:					

FOCAL LENGTH 9 in.	RELATIVE APERTURE f/3.8	FORMAT 2.25 in. x .5 in. slit	MANUFACTURER Fairchild Space & Defense Systems, El Segundo
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Photographic Resolving Power in Lines /mm

FIELD ANGLE (°)	0	7.02	10.03																	
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FILM Plus X Aerecon TARGET CONTRAST _____ FILTER _____

RADIAL	80	80	80																	
TANGENTIAL	80	80	80																	

AWAR
_____ L/mm

FILM Panatomic X TARGET CONTRAST _____ FILTER _____

RADIAL	150	180	180																	
TANGENTIAL	120	150	150																	

AWAR
_____ L/mm

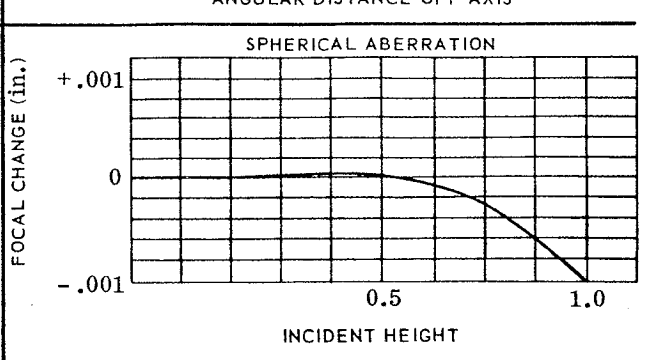
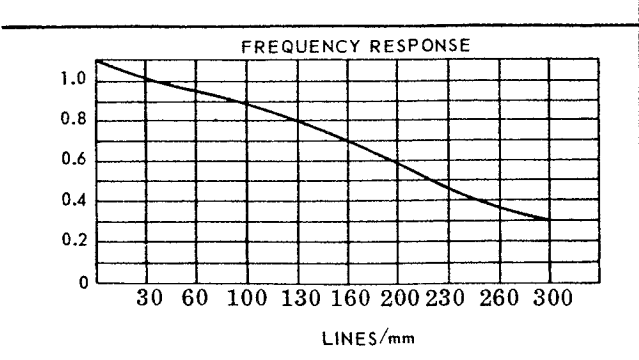
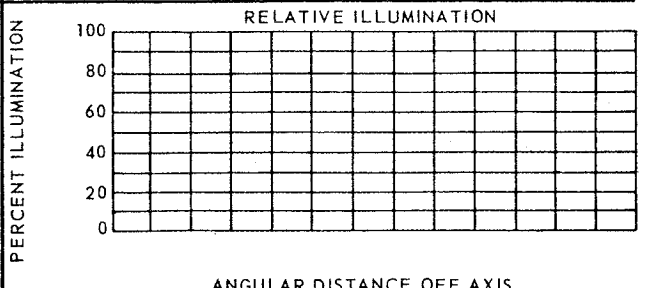
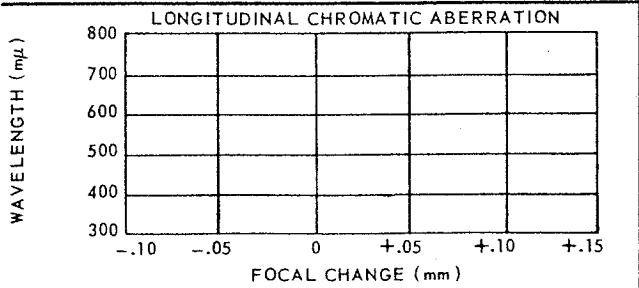
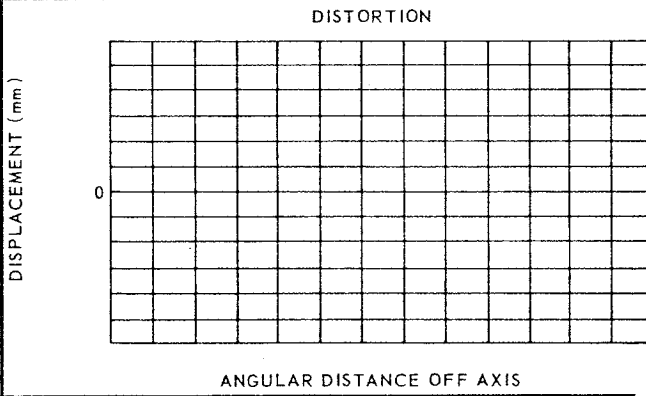
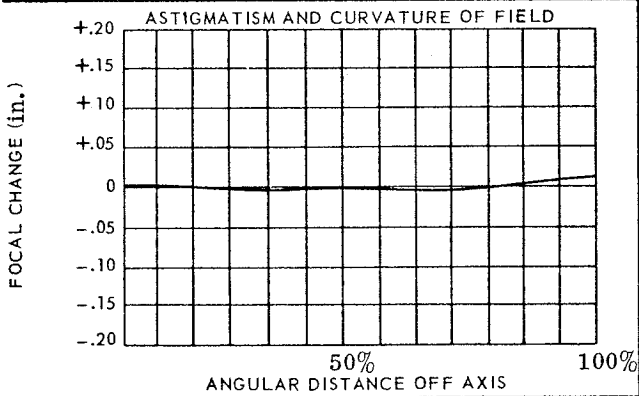
FILM _____ TARGET CONTRAST _____ FILTER _____

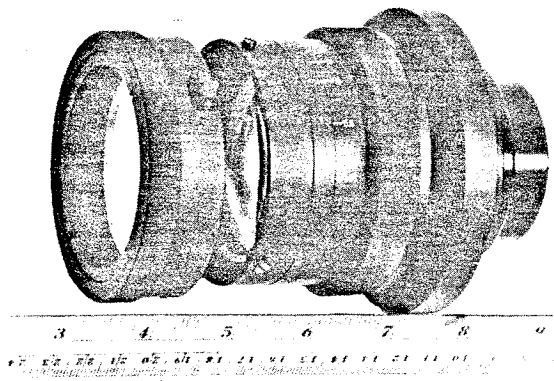
RADIAL																				
TANGENTIAL																				

AWAR
_____ L/mm

VISUAL _____ TARGET CONTRAST _____ FILTER _____

RADIAL																				
TANGENTIAL																				



LENS DATA INFORMATION SHEET <i>(Reference MIL-STD-150A for definition of terms and methods of measurement)</i>			DATE 15 Sept. 1967	
TYPE (MIL-STD-150A) Type I Aerial Reconnaissance		NAME		
FOCAL LENGTH 9 in.	RELATIVE APERTURE f/4.5	FORMAT 2.25 in. x 2.25 in.	MANUFACTURER Bausch & Lomb, Inc.	
STOCK NO.	SPECIFICATION NO.	STATUS		
GENERAL DESCRIPTION				
				
CHARACTERISTICS				
EQUIVALENT FOCAL LENGTH 9 in. (231.60 mm)		TRANSMITTANCE 85%		
BACK FOCAL DISTANCE 5.32 in. (135.29 mm)		COLOR CORRECTION Visible		
FRONT VERTEX BACK FOCAL DISTANCE 8.29 in. (210.50 mm)		DISTORTION (<i>Maximum</i>)		
FLANGE FOCAL DISTANCE 6.07 in. (154.29 mm)		LENS CELL DIAMETER (<i>Maximum</i>)		
SEMI-FIELD ANGLE 10°		OVERALL LENGTH		
RELATIVE APERTURE f/4.5		WEIGHT		
REMARKS:				