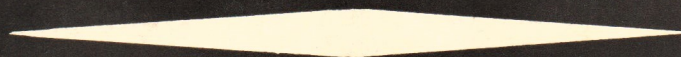


PROJECTION TABLES

for

GAUMONT-KALEE

Series 'S' High Definition Lenses



CINEMASCOPE • VISTAVISION

and all systems of

Wide Screen Presentation



G.B.-KALEE LTD

Mortimer House, 37-41 Mortimer Street, London, W.1

A Member of the British Optical



& Precision Engineers' Group

In the Service of the Cinematograph Industry

We present this booklet to help Managers, Operators and Engineers to give the best in Cinematograph Entertainment, and to assist Architects planning Cinemas.

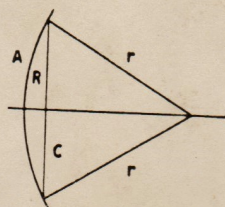
The tables and drawings, with one exception, were produced by our Planning and Design Division, and drawing offices of allied Companies in the British Optical and Precision Engineers' Group.

Some have been previously published in our sales literature, others were produced to enable our representatives and engineers to determine the right equipment for each individual cinema.

Because of the variations in cinema layout and design the tables should only be used as a guide. The great magnification, problems of sight lines, or overhang of balconies, makes it essential to give fullest details, and architects plans if possible, when requiring equipment for Wide Screen presentation. The two survey sheets on pages 20 and 21 give some indication of the type of information required.

NOTE

All dimensions in the screen tables are given to the nearest tenth of a foot. Picture widths are calculated upon the chord of the screen and not upon the arc.



C=CHORD
A=ARC LENGTH
r=RADIUS
R=RISE

Everything for the



Cinema and Theatre

Dimensions of Screen Picture at different distances with lenses of different focal lengths

CINEMASCOPE MAGNETIC

Aperture 0.912" x 0.715" with a 2.55:1 Aspect Ratio (2:1 Anamorphic expansion)

FOCAL LENGTH INCHES	PROJECTION DISTANCE — FEET																
	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
2.00	36.5	45.6	54.7	63.8	72.9	82.0	91.2										
2.25	32.4	40.5	48.6	56.7	64.8	72.9	81.0										
2.50	29.3	36.5	43.7	50.9	58.1	65.3	72.5	80.2									
2.75	26.5	33.1	39.8	46.4	53.0	59.6	66.3	72.9	79.6								
3.00	24.3	30.4	36.5	42.5	48.6	54.7	60.7	66.9	72.9	79.0							
3.25	22.4	28.1	33.7	39.3	44.9	50.5	56.1	61.7	67.3	72.9	78.5						
3.50	20.8	26.0	31.3	36.5	41.7	46.9	52.1	57.3	62.5	67.7	72.9	78.1					
3.75	19.4	24.3	29.2	34.0	38.9	43.7	48.6	53.5	58.4	63.2	68.1	72.9	77.8				
4.00	18.2	22.8	27.3	31.9	36.5	41.0	45.6	50.1	54.7	59.3	63.8	68.4	72.9	77.5			
4.25	17.1	21.4	25.7	30.0	34.3	38.6	42.9	47.2	51.5	55.8	60.0	64.4	68.6	72.9	77.2		
4.50	16.1	20.3	24.4	28.4	32.4	36.5	40.5	44.5	48.6	52.6	56.7	60.7	64.8	68.8	72.9	77.0	
4.75	15.2	19.4	23.3	27.2	31.1	35.0	38.9	42.8	46.7	50.6	54.5	58.4	62.3	66.2	70.1	74.0	
5.00	14.3	18.4	22.2	26.0	29.8	33.6	37.4	41.2	45.0	48.8	52.6	56.4	60.2	64.0	67.8	71.6	
5.25	13.5	17.5	21.2	24.9	28.6	32.3	36.0	39.7	43.4	47.1	50.8	54.5	58.2	61.9	65.6	69.3	
5.50	12.7	16.6	20.2	23.8	27.4	31.0	34.6	38.2	41.8	45.4	49.0	52.6	56.2	59.8	63.4	67.0	
5.75	12.0	15.8	19.4	22.9	26.4	30.0	33.5	37.1	40.6	44.1	47.7	51.2	54.7	58.2	61.7	65.2	
6.00	11.3	15.0	18.5	22.0	25.5	29.0	32.5	36.0	39.5	43.0	46.5	50.0	53.5	57.0	60.5	64.0	
6.25	10.7	14.3	17.7	21.2	24.6	28.0	31.4	34.8	38.2	41.6	45.0	48.4	51.8	55.2	58.6	62.0	
6.50	10.1	13.7	17.0	20.4	23.7	27.0	30.3	33.6	36.9	40.2	43.5	46.8	50.1	53.4	56.7	60.0	
6.75	9.6	13.1	16.3	19.5	22.7	25.9	29.1	32.3	35.5	38.7	41.9	45.1	48.3	51.5	54.7	57.9	
7.00	9.1	12.6	15.7	18.8	21.9	25.0	28.1	31.2	34.3	37.4	40.5	43.6	46.7	49.8	52.9	56.0	
7.25	8.6	12.1	15.1	18.2	21.2	24.2	27.2	30.2	33.2	36.2	39.2	42.2	45.2	48.2	51.2	54.2	
7.50	8.2	11.7	14.6	17.6	20.6	23.5	26.5	29.4	32.4	35.3	38.3	41.2	44.2	47.1	50.1	53.0	
7.75	7.8	11.3	14.2	17.1	20.0	22.9	25.8	28.7	31.6	34.5	37.4	40.3	43.2	46.1	49.0	51.9	
8.00	7.4	10.9	13.7	16.6	19.4	22.2	25.0	27.8	30.6	33.4	36.2	39.0	41.8	44.6	47.4	50.2	
8.25	7.0	10.5	13.3	16.1	18.9	21.6	24.4	27.1	29.9	32.6	35.4	38.1	40.8	43.5	46.2	48.9	
8.50	6.7	10.1	12.9	15.6	18.3	21.0	23.7	26.4	29.1	31.8	34.5	37.2	39.9	42.6	45.3	48.0	
8.75	6.4	9.7	12.4	15.1	17.8	20.5	23.2	25.9	28.6	31.3	34.0	36.7	39.4	42.1	44.8	47.5	
9.00	6.1	9.4	12.1	14.8	17.5	20.2	22.9	25.6	28.3	31.0	33.7	36.4	39.1	41.8	44.5	47.2	
9.25	5.8	9.1	11.8	14.5	17.2	19.9	22.6	25.3	28.0	30.7	33.4	36.1	38.8	41.5	44.2	46.9	
9.50	5.5	8.8	11.5	14.2	16.9	19.6	22.3	25.0	27.7	30.4	33.1	35.8	38.5	41.2	43.9	46.6	
9.75	5.2	8.5	11.2	13.9	16.6	19.3	22.0	24.7	27.4	30.1	32.8	35.5	38.2	40.9	43.6	46.3	
10.00	5.0	8.3	11.0	13.7	16.4	19.1	21.8	24.5	27.2	29.9	32.6	35.3	38.0	40.7	43.4	46.1	

SIZES GIVEN ARE TO NEAREST TENTH OF A FOOT

CINEMASCOPE PHOTOGRAPHIC

Aperture 0.839" x 0.715" with a 2.35:1 Aspect Ratio (2:1 Anamorphic expansion)

FOCAL LENGTH INCHES	PROJECTION DISTANCE — FEET																
	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
2.00	33.5	42.0	50.2	58.7	67.0	75.5	84.0	92.3									
2.25	29.8	37.2	44.7	52.2	59.7	67.2	74.7	82.2	89.5								
2.50	26.8	33.5	40.2	47.0	53.7	60.4	67.1	73.8	80.5	87.2							
2.75	24.4	30.4	36.5	42.6	48.7	54.9	61.0	67.1	73.2	79.3	85.4						
3.00	22.5	28.0	33.5	39.2	44.6	50.2	55.8	61.4	67.0	72.6	78.2	83.9					
3.25	20.6	25.8	30.9	36.1	41.2	46.4	51.5	56.8	61.9	67.0	72.1	77.2	82.5				
3.50	19.2	24.0	28.8	33.5	38.4	43.2	48.0	52.8	57.6	62.4	67.2	72.0	76.6	81.4			
3.75	18.2	22.4	26.9	31.3	35.8	40.3	44.7	49.2	53.6	58.2	62.6	67.0	71.6	76.0	80.5		
4.00	17.1	21.4	25.7	30.0	34.3	38.6	42.9	47.2	51.5	55.8	60.0	64.4	68.6	72.9	77.2		
4.25	16.1	20.3	24.4	28.4	32.4	36.5	40.5	44.5	48.6	52.6	56.7	60.7	64.8	68.8	72.9	77.0	
4.50	15.2	19.4	23.3	27.2	31.1	35.0	38.9	42.8	46.7	50.6	54.5	58.4	62.3	66.2	70.1	74.0	
4.75	14.3	18.4	22.2	26.0	29.8	33.6	37.4	41.2	45.0	48.8	52.6	56.4	60.2	64.0	67.8	71.6	
5.00	13.5	17.5	21.2	24.9	28.6	32.3	36.0	39.7	43.4	47.1	50.8	54.5	58.2	61.9	65.6	69.3	
5.25	12.7	16.6	20.2	23.8	27.4	31.0	34.6	38.2	41.8	45.4	49.0	52.6	56.2	59.8	63.4	67.0	
5.50	12.0	15.8	19.4	22.9	26.4	30.0	33.5	37.1	40.6	44.1	47.7	51.2	54.7	58.2	61.7	65.2	
5.75	11.3	15.0	18.5	22.0	25.5	29.0	32.5	36.0	39.5	43.0	46.5	50.0	53.5	57.0	60.5	64.0	
6.00	10.7	14.3	17.7	21.2	24.6	28.0	31.4	34.8	38.2	41.6	45.0	48.4	51.8	55.2	58.6	62.0	
6.25	10.1	13.7	17.0	20.4	23.7	27.0	30.3	33.6	36.9	40.2	43.5	46.8	50.1	53.4	56.7	60.0	
6.50	9.6	13.1	16.3	19.5	22.7	25.9	29.1	32.3	35.5	38.7	41.9	45.1	48.3	51.5	54.7	57.9	
6.75	9.1	12.6	15.7	18.8	21.9	25.0	28.1	31.2	34.3	37.4	40.5	43.6	46.7	49.8	52.9	56.0	
7.00	8.6	12.1	15.1	18.2	21.2	24.2	27.2	30.2	33.2	36.2	39.2	42.2	45.2	48.2	51.2	54.2	
7.25	8.2	11.7	14.6	17.6	20.6	23.5	26.5	29.4	32.4	35.3	38.3	41.2	44.2	47.1	50.1	53.0	
7.50	7.8	11.3	14.2	17.1	20.0	22.9	25.8	28.7	31.6	34.5	37.4	40.3	43.2	46.1	49.0	51.9	
7.75	7.4	10.9	13.7	16.6	19.4	22.2	25.0	27.8	30.6	33.4	36.2	39.0	41.8	44.6	47.4	50.2	
8.00	7.0	10.5	13.3	16.1	18.9	21.6	24.4	27.1	29.9	32.6	35.4	38.1	40.8	43.5	46.2	48.9	
8.25	6.7	10.1	12.9	15.6	18.3	21.0	23.7	26.4	29.1	31.8	34.5	37.2	39.9	42.6	45.3	48.0	
8.50	6.4	9.7	12.4	15.1	17.8	20.5	23.2	25.9	28.6	31.3	34.0	36.7	39.4	42.1	44.8	47.5	
8.75	6.1	9.4	12.1	14.8	17.5	20.2	22.9	25.6	28.3	31.0	33.7	36.4	39.1	41.8	44.5	47.2	
9.00	5.8	9.1	11.8	14.5	17.2	19.9	22.6	25.3	28.0	30.7	33.4	36.1	38.8	41.5	44.2	46.9	
9.25	5.5	8.8	11.5	14.2	16.9	19.6	22.3	25.0	27.7	30.4	33.1	35.8	38.5	41.2	43.9	46.6	
9.50	5.2	8.5	11.2	13.9	16.6	19.3	22.0	24.7	27.4	30.1	32.8	35.5	38.2	40.9	43.6	46.3	
9.75	5.0	8.3	11.0	13.7	16.4	19.1	21.8	24.5	27.2	29.9	32.6	35.3	38.0	40.7	43.4	46.1	
10.00	4.8	8.1	10.8	13.5	16.2	18.9	21.6	24.3	27.0	29.7	32.4	35.1	37.8	40.5	43.2	45.9	

SIZES GIVEN ARE TO NEAREST TENTH OF A FOOT

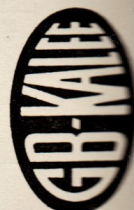
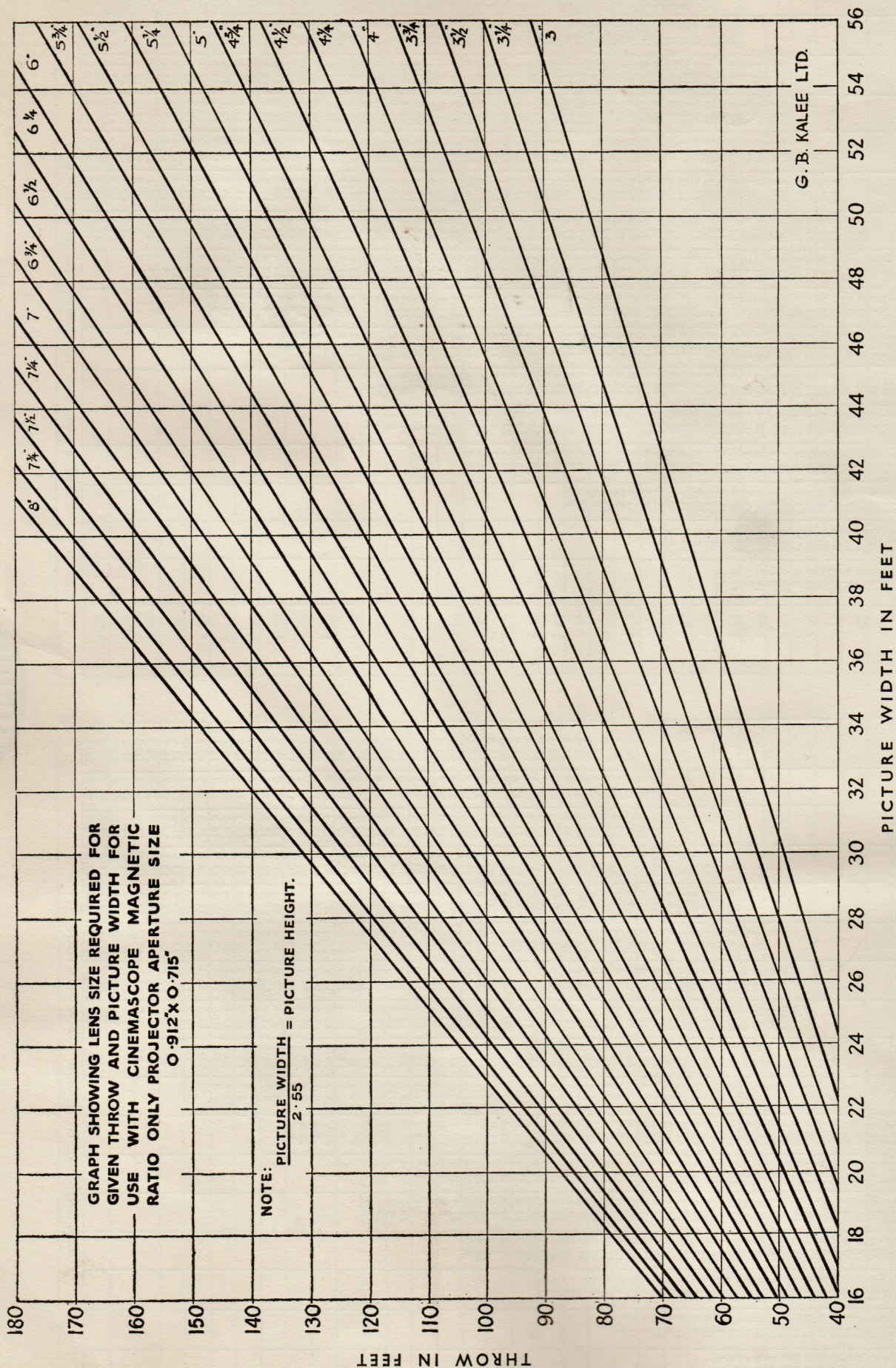


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Dimensions of width of Screen Picture at different distances with lenses of different focal lengths.

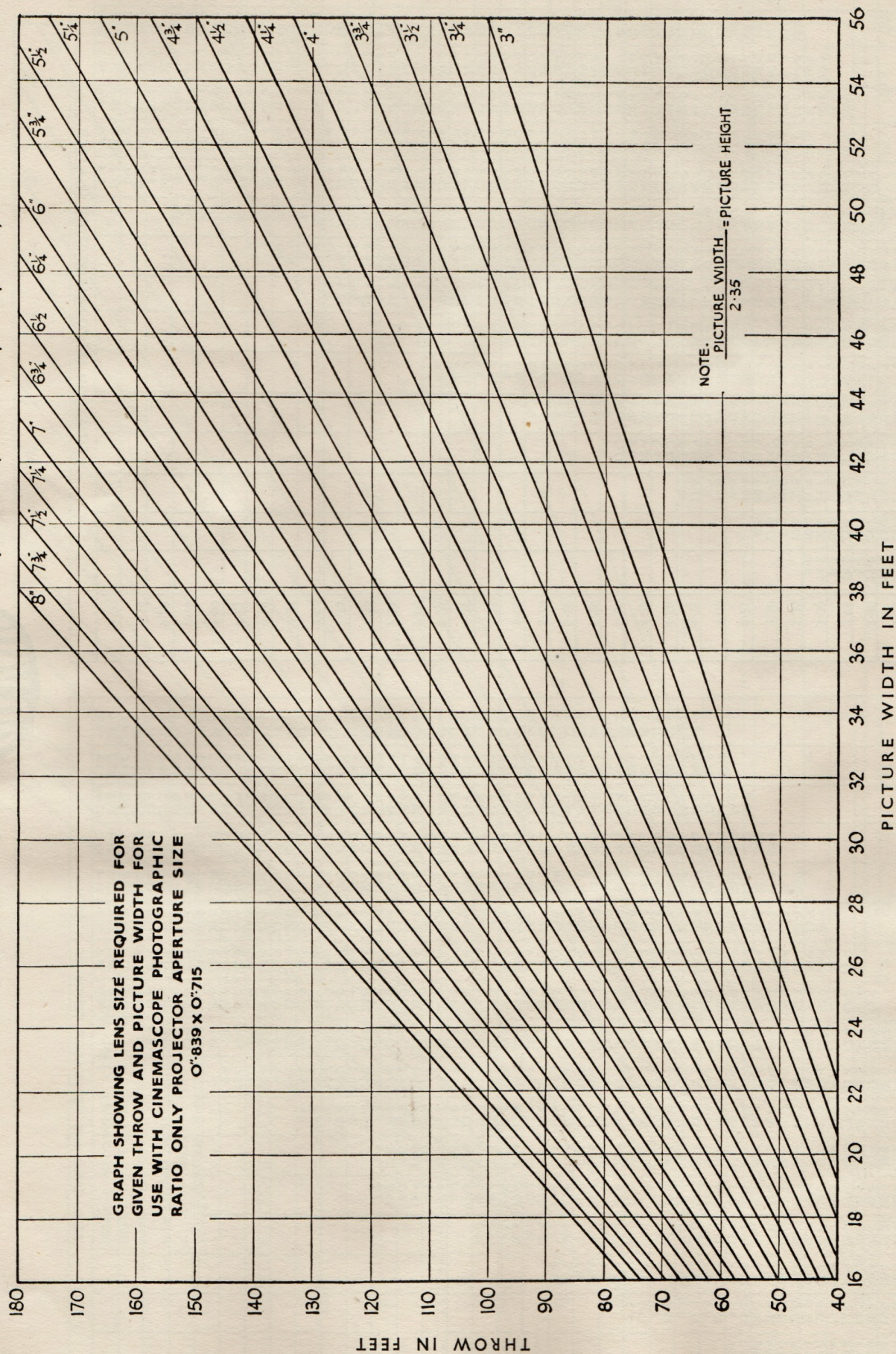
Cinemascope Magnetic Aperture $0.912" \times 0.715"$ with a 2.55 : 1 Aspect Ratio (2 : 1 Anamorphic expansion)



Everything for the

Cinema and Theatre

Dimensions of width of Screen Picture at different distances with lenses of different focal lengths. Cinemascope Photographic Aperture $0.839" \times 0.715"$ with a 2.35 : 1 Aspect Ratio (2 : 1 Anamorphic expansion)



Everything for the

Cinema and Theatre

Dimensions of screen picture at different distances with Lenses of different focal lengths

Aperture 0.715" x 0.715" with a 2:1 Aspect Ratio (2:1 Anamorphic expansion)

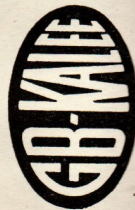
Aperture 0.825" x 0.600" with approx. a 2.06:1 Aspect Ratio (1.5:1 Anamorphic expansion)

FOCAL LENGTH INCHES	PROJECTION DISTANCE — FEET																		
	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200		
2.00	28.6	35.8	43.0	50.0	57.2	64.4	71.6	78.8											
2.25	14.3	17.9	21.5	25.0	28.6	32.2	35.8	39.4											
	25.4	31.8	38.2	44.4	50.8	57.2	63.6	70.0	76.4										
2.50	12.7	15.9	19.1	22.2	25.4	28.6	31.8	35.0	38.2										
	22.8	28.6	34.4	40.0	45.8	51.4	57.2	63.0	68.6	74.4									
2.75	11.4	14.3	17.2	20.0	22.9	25.7	28.6	31.5	34.3	37.2									
	20.8	26.0	31.2	36.4	41.6	46.8	52.0	57.2	62.4	67.8	73.0								
3.00	10.4	13.0	15.6	18.2	20.8	23.4	26.0	28.6	31.2	33.9	36.5								
	19.0	23.8	28.6	33.4	38.2	43.0	47.6	52.4	57.2	62.0	66.8	71.4							
3.25	9.5	11.9	14.3	16.7	19.1	21.5	23.8	26.2	28.6	31.0	33.4	35.7	70.2						
	17.6	22.0	26.4	30.8	35.2	39.6	44.0	48.4	52.8	57.2	61.6	66.2	70.2	35.1					
3.50	8.8	11.0	13.2	15.4	17.6	19.8	22.0	24.2	26.4	28.6	30.8	33.1	35.1	69.4					
	16.4	20.4	24.6	28.6	32.8	36.8	40.8	44.8	48.9	53.2	57.2	61.2	65.4	69.4	34.7				
3.75	8.2	10.2	12.3	14.3	16.4	18.4	20.4	22.5	24.5	26.6	28.6	30.6	32.7	34.7					
	15.2	19.0	22.8	26.8	30.6	34.4	38.2	42.0	45.8	49.6	53.4	57.2	61.0	65.0	68.8				
4.00	7.6	9.5	11.4	13.4	15.3	17.2	19.1	21.1	22.9	24.8	26.7	28.6	30.5	32.5	34.4				
	17.8	21.4	25.0	28.6	32.2	35.8	39.4	43.0	46.4	50.0	53.6	57.2	60.8	64.4	67.8				
4.25	8.9	10.7	12.5	14.3	16.1	17.9	19.7	21.5	23.2	25.0	26.8	28.6	30.4	32.1	33.9				
	16.8	20.2	23.6	27.0	30.4	33.6	37.0	40.4	43.8	47.2	50.4	53.8	57.2	60.6	64.2	67.4			
4.50	8.4	10.1	11.8	13.5	15.2	16.8	18.5	20.2	21.9	23.6	25.2	26.9	28.6	30.3	32.1				
	15.8	19.0	22.2	25.4	28.6	31.8	35.0	38.2	41.4	44.6	47.6	50.8	54.0	57.2	60.4	63.6			
4.75	7.9	9.5	11.1	12.7	14.3	15.9	17.5	19.1	20.7	22.2	23.8	25.4	27.0	28.6	30.2	31.8			
	15.0	18.0	21.0	24.0	27.0	30.2	33.2	36.2	39.2	42.2	45.2	48.2	51.2	54.2	57.2	60.2			
5.00	7.5	9.0	10.5	12.0	13.6	15.1	16.6	18.1	19.6	21.1	22.6	24.1	25.6	27.1	28.6	30.1			
	17.2	20.0	22.8	25.8	28.6	31.4	34.4	37.2	40.0	43.0	45.8	48.6	51.4	54.4	57.2	60.2			
5.25	8.6	10.0	11.4	12.9	14.3	15.7	17.2	18.6	20.0	21.5	22.9	24.3	25.7	27.2	28.6				
	16.4	19.0	21.8	24.6	27.2	30.0	32.6	35.4	38.2	40.8	43.6	46.4	49.0	51.8	54.4				
5.50	8.2	9.5	10.9	12.3	13.6	15.0	16.3	17.7	19.1	20.4	21.8	23.2	24.5	25.9	27.2				
	15.6	18.2	20.8	23.4	26.0	28.6	31.2	33.8	36.4	39.0	41.6	44.2	46.8	49.4	52.0				
5.75	7.8	9.4	10.4	11.7	13.0	14.3	15.6	16.9	18.2	19.5	20.8	22.1	23.4	24.7	26.0				
	17.4	20.0	22.4	24.8	27.4	29.8	32.4	34.8	37.4	39.8	42.2	44.8	47.2	49.8					
6.00	8.7	10.0	11.2	12.4	13.7	14.9	16.2	17.4	18.7	19.9	21.1	22.4	23.6	24.9					
	16.6	19.0	21.4	23.8	26.2	28.6	31.0	33.4	35.8	38.2	40.6	43.0	45.2	47.6	49.8				
6.25	8.3	9.5	10.7	11.9	13.1	14.3	15.5	16.7	17.9	19.1	20.3	21.5	22.6	23.8					
	16.0	18.4	20.6	22.8	25.2	27.4	29.8	32.0	34.4	36.6	39.0	41.2	43.4	45.8					
6.50	8.0	9.2	10.3	11.4	12.6	13.7	14.9	16.0	17.2	18.3	19.5	20.6	21.7	22.9					
	17.6	19.8	22.0	24.2	26.4	28.6	30.8	33.0	35.2	37.4	39.6	41.8	44.0						
6.75	8.8	9.9	11.0	12.1	13.2	14.3	15.4	16.5	17.6	18.7	19.8	20.9	22.0						
	17.0	19.0	21.2	23.4	25.4	27.6	29.6	31.8	34.0	36.0	38.2	40.2	42.4						
7.00	8.5	9.5	10.6	11.7	12.7	13.8	14.8	15.9	17.0	18.0	19.1	20.1	21.2						
	16.4	18.4	20.4	22.4	24.6	26.6	28.6	30.6	32.8	34.8	36.8	38.8	40.8						
7.25	8.2	9.2	10.2	11.2	12.3	13.3	14.3	15.3	16.4	17.4	18.4	19.4	20.4						
	15.8	17.8	19.8	21.8	23.6	25.6	27.6	29.6	31.6	33.6	35.6	37.4	39.4						
7.50	7.9	8.9	9.9	10.9	11.8	12.8	13.8	14.8	15.8	16.8	17.8	18.7	19.7						
	16.6	19.0	21.4	23.8	26.2	28.6	31.0	33.4	35.8	38.2	40.6	43.0	45.2	47.6	49.8				
7.75	8.3	9.5	10.7	11.9	13.1	14.3	15.5	16.7	17.9	19.1	20.3	21.5	22.6	23.8					
	16.0	18.4	20.6	22.8	25.2	27.4	29.8	32.0	34.4	36.6	39.0	41.2	43.4	45.8					
8.00	8.0	9.2	10.3	11.4	12.6	13.7	14.9	16.0	17.2	18.3	19.5	20.6	21.7	22.9					
	17.6	19.8	22.0	24.2	26.4	28.6	30.8	33.0	35.2	37.4	39.6	41.8	44.0						
8.25	8.8	9.9	11.0	12.1	13.2	14.3	15.4	16.5	17.6	18.7	19.8	20.9	22.0						
	17.0	19.0	21.2	23.4	25.4	27.6	29.6	31.8	34.0	36.0	38.2	40.2	42.4						
7.00	8.5	9.5	10.6	11.7	12.7	13.8	14.8	15.9	17.0	18.0	19.1	20.1	21.2						
	16.4	18.4	20.4	22.4	24.6	26.6	28.6	30.6	32.8	34.8	36.8	38.8	40.8						
7.25	8.2	9.2	10.2	11.2	12.3	13.3	14.3	15.3	16.4	17.4	18.4	19.4	20.4						
	15.8	17.8	19.8	21.8	23.6	25.6	27.6	29.6	31.6	33.6	35.6	37.4	39.4						
7.50	7.9	8.9	9.9	10.9	11.8	12.8	13.8	14.8	15.8	16.8	17.8	18.7	19.7						
	16.6	19.0	21.4	23.8	26.2	28.6	31.0	33.4	35.8	38.2	40.6	43.0	45.2	47.6	49.8				
7.75	8.3	9.5	10.7	11.9	13.1	14.3	15.5	16.7	17.9	19.1	20.3	21.5	22.6	23.8					
	16.0	18.4	20.6	22.8	25.2	27.4	29.8	32.0	34.4	36.6	39.0	41.2	43.4	45.8					
8.00	8.0	9.2	10.3	11.4	12.6	13.7	14.9	16.0	17.2	18.3	19.5	20.6	21.7	22.9					
	17.6	19.8	22.0	24.2	26.4	28.6	30.8	33.0	35.2	37.4	39.6	41.8	44.0						
8.25	8.8	9.9	11.0	12.1	13.2	14.3	15.4	16.5	17.6	18.7	19.8	20.9	22.0						
	17.0	19.0	21.2	23.4	25.4	27.6	29.6	31.8	34.0	36.0	38.2	40.2	42.4						
7.00	8.5	9.5	10.6	11.7	12.7	13.8	14.8	15.9	17.0	18.0	19.1	20.1	21.2						
	16.4	18.4	20.4	22.4	24.6	26.6	28.6	30.6	32.8	34.8	36.8	38.8	40.8						
7.25	8.2	9.2	10.2	11.2	12.3	13.3	14.3	15.3	16.4	17.4	18.4	19.4	20.4						
	15.8	17.8	19.8	21.8	23.6	25.6	27.6	29.6	31.6	33.6	35.6	37.4	39.4						
7.50	7.9	8.9	9.9	10.9	11.8	12.8	13.8	14.8	15.8	16.8	17.8	18.7	19.7						
	16.6	19.0	21.4	23.8	26.2	28.6	31.0	33.4	35.8	38.2	40.6	43.0	45.2	47.6	49.8				
7.75	8.3	9.5	10.7	11.9	13.1	14.3	15.5	16.7	17.9	19.1	20.3	21.5	22.6	23.8					
	16.0	18.4	20.6	22.8	25.2	27.4	29.8	32.0	34.4	36.6	39.0	41.2	43.4	45.8					
8.00	8.0	9.2	10.3	11.4	12.6	13.7	14.9	16.0	17.2	18.3	19.5	20.6	21.7	22.9					
	17.6	19.8	22.0	24.2	26.4	28.6	30.8	33.0	35.2	37.4	39.6	41.8	44.0						
8.25	8.8	9.9	11.0	12.1	13.2	14.3	15.4	16.5	17.6	18.7	19.8	20.9	22.0						
	17.0	19.0	21.2	23.4	25.4	27.6	29.6	31.8	34.0	36.0	38.2	40.2	42.4						
7.00	8.5	9.5	10.6	11.7	12.7	13.8	14.8	15.9	17.0	18.0	19.1	20.1	21.2						
	16.4	18.4	20.4	22.4	24.6	26.6	28.6	30.6	32.8	34.8	36.8	38.8	40.8						
7.25	8.2	9.2	10.2	11.2	12.3	13.3	14.3	15.3	16.4	17.4	18.4	19.4	20.4						
	15.8	17.8	19.8	21.8	23.6	25.6	27.6	29.6	31.6	33.6	35.6	37.4	39.4						
7.50	7.9	8.9	9.9	10.9	11.8	12.8	13.8	14.8	15.8	16.8	17.8	18.7	19.7						
	16.6	19.0	21.4	23.8	26.2	28.6	31.0	33.4	35.8	38.2	40.6	43.0	45.2	47.6	49.8				
7.75	8.3	9.5	10.7	11.9	13.1	14.3	15.5	16.7	17.9	19.1	20.3	21.5	22.6	23.8					
	16.0	18.4	20.6	22.8	25.2	27.4	29.8	32.0	34.4	36.6	39.0	41.2	43.4	45.8					
8.00	8.0	9.2	10.3	11.4	12.6	13.7	14.9	16.0	17.2	18.3	19.5	20.6	21.7	22.9					
	17.6	19.8	22.0	24.2	26.4	28.6	30.												

SIZES GIVEN ARE TO NEAREST TENTH OF A FOOT

FOCAL LENGTH INCHES	PROJECTION DISTANCE — FEET																		
	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200		
2.00	24.7	31.0	37.2	43.4	49.5	55.7	61.9	68.1											
2.25	11.9	14.9	17.9	20.9	23.9	26.9	29.9	32.9											
	22.0	27.6	33.0	38.5	44.0	49.5	55.0	60.5	66.0	71.5									
2.50	10.6	13.3	16.0	18.6	21.2	23.9	26.6	29.2	31.9	34.6									
	19.8	24.7	29.7	34.6	39.6	44.6	49.5	54.5	59.4	64.4	69.4								
2.75	9.6	11.9	14.4	16.8	19.1	21.5	23.9	26.3	28.7	31.1	33.5	67.5	72.0						
	18.0	22.5	27.0	31.5	36.0	40.5	45.0	49.5	54.0	58.5	63.0								
3.00	8.7	10.9	13.0	15.2	17.4	19.6	21.8	23.9	26.1	28.3	30.5	32.7	34.9	70.1					
	16.5	20.6	24.7	28.9	33.0	37.1	41.2	45.4	49.5	53.5	57.7	61.9	66.0						
3.25	8.0	10.0	11.9	14.0	16.0	17.9	20.0	22.0	23.9	25.9	27.9	29.9	31.9	34.0	68.5				
	19.0	22.8	26.6	30.5	34.3	38.1	41.9	45.7	49.5	53.3	57.0	61.0	64.8						
3.50	9.2	11.0	12.8	14.7	16.6	18.4	20.3	22.1	23.9	25.8	27.6	29.5	31.3	33.3					
	17.6	21.2	24.7	28.2	31.7	35.3	38.8	42.4	46.0	49.5	53.0	56.5	60.0	63.5	67.1	70.7			
3.75	8.5	10.3	11.9	13.7	15.4	17.1	18.8	20.5	22.2	23.9	25.5	27.2	28.9	30.6	32.3	34.2			
	19.8	23.1	26.4	29.7	33.0	36.3	39.5	42.9	46.2	49.5	52.7	56.1	59.4	62.6	66.0				
4.00	9.6	11.1	12.8	14.4	16.0	17.6	19.1	20.7	22.3	23.9	25.5	27.1	28.7	30.3	31.9	33.5			
	18.6	21.6	24.7	27.8	30.8	33.9	37.1	40.2	43.5	46.4	49.5	52.6	55.5	58.7	61.8				
4.25	8.9	10.4	11.9	13.4	14.9	16.4	17.9	19.4	20.9	22.4	23.9	25.4	26.9	28.4	29.9				
	17.5	20.4	23.3	26.2	29.2	32.1	34.9	37.8	40.7	43.6	46.6	49.5	52.4	55.4	58.2				
4.50	8.5	9.8	11.2	12.7	14.0	15.4	16.8	18.3	19.7	21.1	22.5	23.9	25.3	26.8	28.2				
	19.2	22.0	24.7	27.4	30.2	33.0	35.7	38.5	41.2	44.0	46.7	49.5	52.3	55.0					
4.75	9.3	10.6	11.9	13.3	14.6	16.0	17.2	18.6	20.0	21.4	22.8	24.2	25.6	27.0	28.4				
	18.4	20.8	23.4	26.1	28.7	31.2	33.9	36.4	39.1	41.6	44.3	46.9	49.5	52.1	54.7				
5.00	8.9	10.1	11.4	12.6	13.9	15.1	16.4	17.6	18.9	20.1	21.4	22.6	23.9	25.2	26.6				
	17.3	19.8	22.2	24.7	27.2	29.6	32.2	34.6	37.1	39.6	42.1	44.6	47.1	49.5					
5.25	8.4	9.6	10.8	11.9	13.2	14.4	15.6	16.8	17.9	19.1	20.3	21.5	22.8	24.1	25.4				
	18.8	21.2	23.6	25.9	28.3	30.7	33.0	35.4	37.8	40.1	42.5	44.9	47.1						
5.50	9.1	10.3	11.4	12.5	13.7	14.8	15.9	17.1	18.3	19.4	20.5	21.7	22.8	24.0	25.1				
	18.0	20.2	22.5	24.7	27.0	29.2	31.5	33.8	36.0	38.3	40.5	42.7	45.0						
5.75	8.7	9.8	10.9	11.9	13.0	14.1	15.2	16.3	17.4	18.5	19.6	20.6	21.8	22.9	24.0				
	17.2	19.4	21.6	23.7	25.8	28.0	30.1	32.3	34.5	36.6	38.7	40.9	43.1						
6.00	8.3	9.3	10.3	11.4	12.4	13.5	14.5	15.6	16.6	17.7	18.8	19.8	20.8	21.8	22.8				
	18.5	20.6	22.6	24.7	26.8	28.8	30.8	32.8	34.8	36.8	38.8	40.8	42.8						
6.25	8.9	10.0	10.9	11.9	13.0	14.0	14.9	16.0	17.0	17.9	18.9	20.0	21.0	22.0	23.0				
	17.8	19.8	21.8	23.8	25.8	27.7	29.6	31.6	33.6	35.6	37.6	39.6	41.6						
6.50	8.6	9.5	10.4	11.4	12.4	13.4	14.3	15.3	16.2	17.2	18.1	19.1	20.0	21.0	22.0				
	17.2	19.1	20.9	22.8	24.7	26.6	28.6	30.5	32.3	34.3	36.1	38.1	40.1						
6.75	8.3	9.2	10.1	11.0	11.9	12.8	13.7	14.7	15.6	16.6	17.5	18.4	19.4	20.4	21.4				
	18.3	20.2	22.0	23.8	25.6	27.4	29.3	31.2	33.0	34.8	36.6	38.4	40.2						
7.00	8.8	9.8	10.6	11.6	12.4	13.3	14.2	15.1	16.0	16.9	17.8	18.7	19.6	20.5	21.4				
	17.7	19.4	21.2	23.0	24.7	26.5	28.3	30.1	31.7	33.6	35.4	37.2	39.0						
7.25	8.5	9.4	10.3	11.1	11.9	12.8	13.7	14.5	15.4	16.2	17.1	18.0	18.8	19.7	20.5				
	17.1	18.8	20.4	22.2	23.8	25.6	27.3	29.0	30.7	32.4	34.1	35.8	37.5						
7.50	9.1	10.0	10.8	11.6	12.4	13.2	14.1	14.9	15.7	16.6	17.4	18.2	19.0	19.8	20.6				
	18.1	19.8	21.4	23.1	24.7	26.4	28.0	29.7	31.3	33.0	34.7	36.3	38.0						
7.75	8.7	9.6	10.3	11.1	11.9	12.8	13.6	14.4	15.2	16.0	16.8	17.6	18.4	19.2	20.0				
	17.5	19.1	20.7	22.4	23.9	25.5	27.2	28.7	30.3	31.9	33.5	35.1	36.7						
8.00	8.5	9.3	10.0	10.8	11.6	12.4	13.2	13.9	14.7	15.5	16.2	17.0	17.8	18.5	19.3				
	18.6	20.1	21.6	23.2	24.7	26.2	27.7	29.2	30.7	32.2	33.7	35.2	36.7						
8.25	8.9	9.7	10.4	11.2	11.9	12.7	13.4	14.2	14.9	15.7	16.4	17.2	18.0	18.7	19.4				
	18.0	19.5	21.0	22.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0						
8.50	8.7	9.5	10.2	10.9	11.6	12.4	13.1	13.8	14.5	15.2	16.0	16.7	17.4	18.1	18.8				
	17.5	18.9	20.4	21.8	23.2	24.7	26.1	27.5	29.0	30.4	31.8	33.2	34.6						
8.75	8.5	9.1	9.8	10.5	11.2	11.9	12.6	13.3	14.0	14.7	15.4	16.1	16.8	17.5	18.2				
	18.4	19.8	21.2	22.6	24.0	25.4	26.8	28.2	29.6	31.0	32.4	33.8	35.2						
9.00	9.0	9.6	10.2	11.0	11.6	12.2	12.8	13.4	14.0	14.6	15.2	15.8	16.4	17.0	17.6				
	17.9	19.2	20.6	22.0	23.3	24.7	26.1	27.5	28.9	30.3	31.7	33.1	34.5						
9.25	8.6	9.3	10.0	10.6	11.3	11.9	12.6	13.3	14.0	14.6	15.3	16.0	16.7	17.4	18.1				
	17.4	18.7	20.1	21.4	22.7	24.1	25.4	26.7	28.0	29.3	30.6	31.9	33.2						
9.50	8.4	9.1	9.7	10.4	11.1	11.7	12.3	12.9	13.5	14.1	14.7	15.3	15.9	16.5	17.1				
	18.2	19.5	20.8	22.2	23.4	24.8	26.1	27.4	28.7	30.0	31.3	32.6	33.9						
9.75	8.9	9.5	10.1	10.8	11.4	12.0	12.7	13.3	14.0	14.6	15.3	16.0	16.7	17.4	18.1				
	17.7	19.0	20.3	21.6	22.8	24.1	25.4	26.7	28.0	29.3	30.6	31.9	33.2						
10.00	8.6	9.2	9.8	10.4	11.0	11.6	12.2	12.8	13.4	14.0	14.6	15.2	15.8	16.4	17.0				
	17.3	18.6	19.8	21.0	22.3	23.5	24.8	26.1	27.4	28.7	30.0	31.3	32.6						

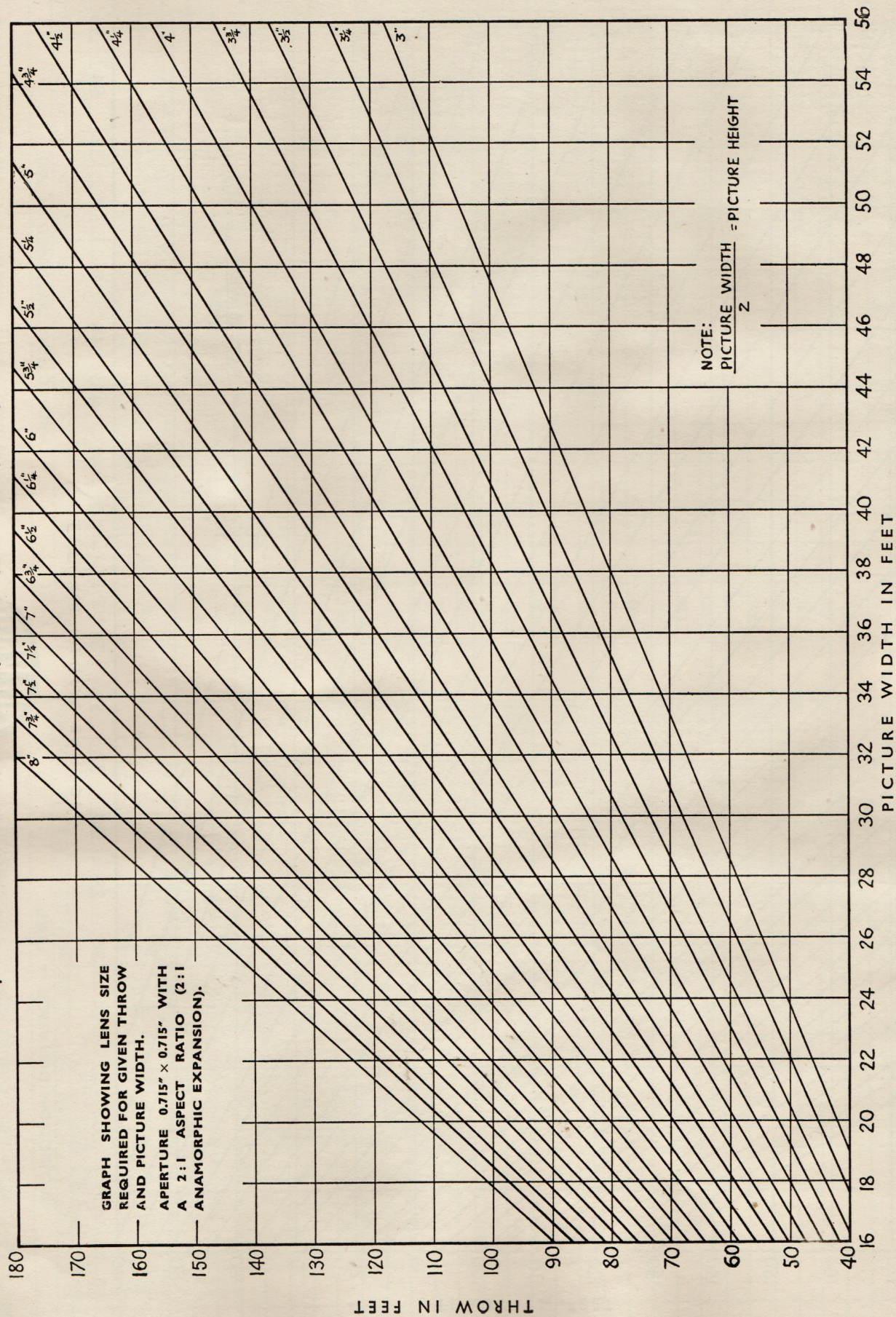
SIZES GIVEN ARE TO NEAREST TENTH OF A FOOT



Everything for the

Cinema and Theatre

Dimensions of width of Screen Picture at different distances with lenses of different focal lengths. Aperture $0.715'' \times 0.715''$ with a 2 : 1 Aspect Ratio (2 : 1 Anamorphic expansion).

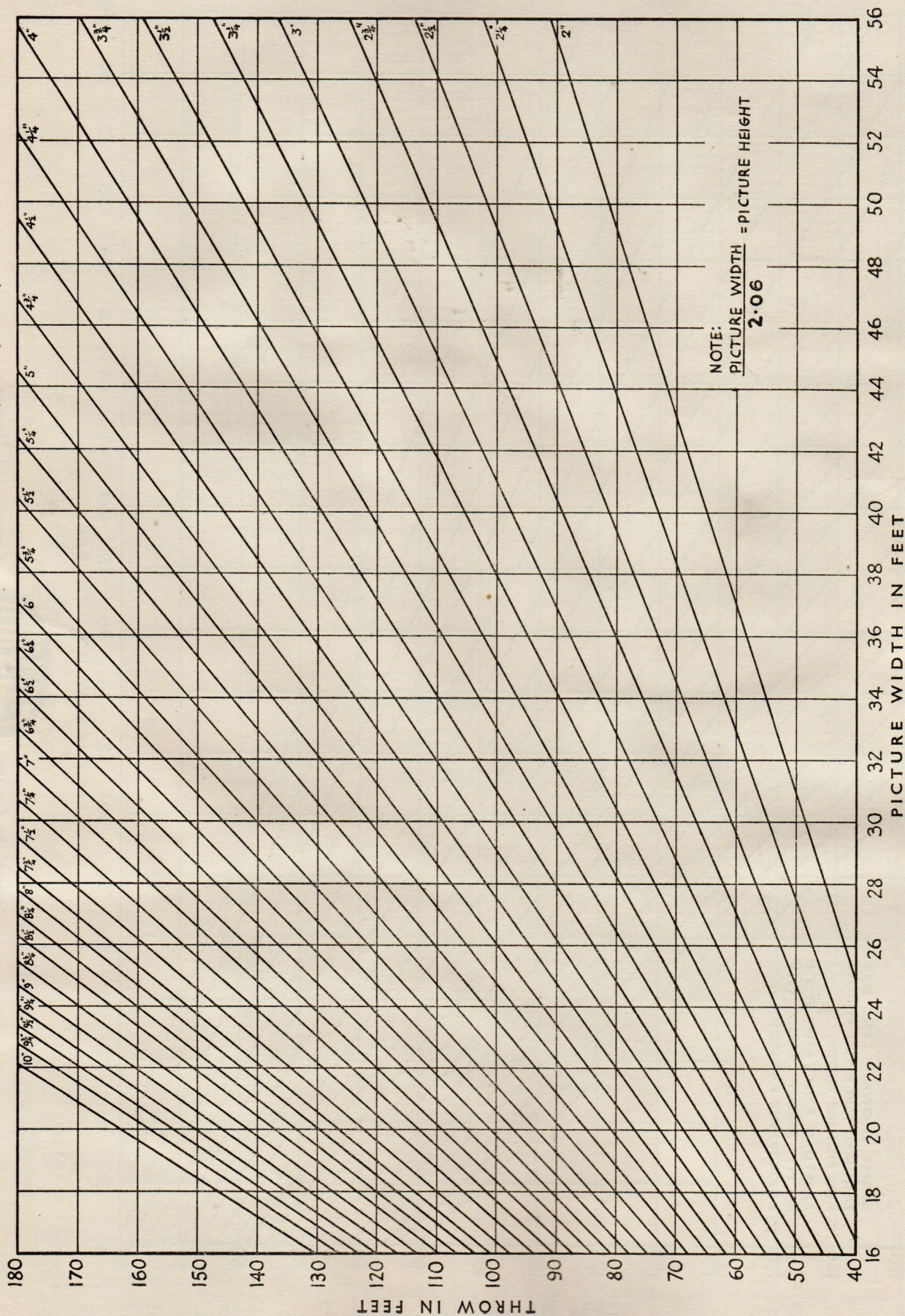


Everything for the

Cinema and Theatre

Dimensions of width of Screen Picture at different distances with lenses of different focal lengths.

Aperture 0.825" x 0.600" with a 2.06 : 1 Aspect Ratio (1.5 : 1 Anamorphic expansion).



Everything for the

Cinema and Theatre

Dimensions of Wide Screen Picture (topped and tailed), with Standard Print at different distances with lenses of different focal lengths

Aperture 0.825" x 0.446" with a 1.85 : 1 Aspect Ratio without Anamorph

Aperture 0.825" x 0.497" with a 1.66 : 1 Aspect Ratio without Anamorph

FOCAL LENGTH INCHES	PROJECTION DISTANCE — FEET																
	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
2-00	16.4	20.5	24.6	28.8	32.9	37.0	41.1	45.3									
2-125	8.9	11.3	13.4	15.6	17.8	20.0	22.2	24.4									
	15.5	19.4	23.3	27.2	31.1	34.9	38.8	42.7									
2-25	8.4	10.5	12.6	14.7	16.8	18.9	21.0	23.0									
	14.6	18.3	22.0	25.6	29.2	32.9	36.6	40.2	43.9	47.5							
2-50	7.9	9.9	11.9	13.8	15.8	17.8	19.8	21.8	23.8	25.6							
	13.1	16.4	19.7	23.0	26.3	29.6	32.9	36.2	39.5	42.8	45.6						
2-75	7.1	8.9	10.7	12.4	14.2	16.0	17.8	19.5	21.4	23.2	24.6						
	15.0	17.9	20.9	23.9	26.9	29.9	32.9	36.0	39.0	42.0	45.0	48.1					
3-00	6.5	8.1	9.7	11.3	12.9	14.6	16.2	17.8	19.5	21.1	22.7	24.4	26.0				
	13.7	16.4	19.2	22.0	24.6	27.4	30.2	32.9	35.7	38.4	41.1	43.9	46.7				
3-25	12.7	15.2	17.7	20.2	22.8	25.3	27.8	30.4	32.9	35.5	38.0	40.5	43.0	45.6			
	6.9	8.2	9.6	10.9	12.3	13.7	15.1	16.5	17.8	19.2	20.6	21.9	23.3	24.6			
3-50	14.1	16.4	18.8	21.1	23.5	25.9	28.3	30.5	32.9	35.2	37.5	39.9	42.3	44.7	47.0		
	7.6	8.9	10.2	11.4	12.7	14.0	15.3	16.5	17.8	19.0	20.3	21.6	22.9	24.2	25.4		
3-75	13.1	15.3	17.5	19.7	22.0	24.0	26.3	28.6	30.7	32.9	35.2	37.3	39.5	41.7	43.9		
	7.1	8.3	9.5	10.7	11.9	13.0	14.2	15.5	16.6	17.8	19.0	20.2	21.4	22.6	23.8		
4-00	12.3	14.3	16.4	18.5	20.5	22.6	24.6	26.7	28.8	30.8	32.9	35.0	37.0	39.1	41.1		
	6.7	7.7	8.9	10.0	11.1	12.2	13.3	14.4	15.7	16.7	17.8	18.9	20.0	21.2	22.2		
4-25	13.5	15.5	17.5	19.5	21.5	23.5	25.5	27.5	29.5	31.5	33.5	35.5	37.5	39.5	41.5		
	7.3	8.4	9.5	10.4	11.5	12.6	13.6	14.7	15.7	16.7	17.8	18.9	19.9	21.0			
4-50	12.8	14.6	16.4	18.3	20.1	22.0	23.7	25.6	27.4	29.2	31.0	32.9	34.8	36.6			
	6.9	7.9	8.9	9.9	10.9	11.9	12.8	13.8	14.8	15.8	16.8	17.8	18.8	19.8			
4-75	12.2	13.9	15.7	17.3	19.0	20.7	22.5	24.2	26.0	27.6	29.4	31.1	32.9	34.7			
	6.6	7.5	8.5	9.4	10.3	11.2	12.2	13.1	14.1	14.9	15.9	16.8	17.8	18.8			
5-00	13.1	14.9	16.4	18.1	19.7	21.4	23.0	24.6	26.3	27.9	29.6	31.3	32.9				
	7.1	8.1	8.9	9.8	10.7	11.6	12.5	13.3	14.2	15.1	16.0	16.9	17.8				
5-25	12.5	14.1	15.7	17.2	18.8	20.3	21.8	23.5	25.1	26.7	28.3	29.8	31.3				
	6.8	7.6	8.5	9.3	10.2	11.0	11.8	12.7	13.6	14.5	15.3	16.1	16.9				
5-50	12.0	13.5	15.0	16.4	17.9	19.4	20.9	22.4	23.9	25.4	26.9	28.4	29.9				
	6.5	7.2	8.1	8.9	9.7	10.5	11.3	12.1	12.9	13.7	14.5	15.4	16.2				
5-75	12.8	14.2	15.7	17.1	18.6	20.0	21.4	22.9	24.3	25.8	27.2	28.6					
	6.9	7.7	8.5	9.3	10.1	10.8	11.6	12.4	13.1	14.0	14.7	15.5					
6-00	12.3	13.7	15.1	16.4	17.8	19.2	20.5	22.0	23.3	24.6	26.0	27.4					
	7.4	8.2	8.9	9.6	10.4	11.1	11.9	12.6	13.3	14.1	14.8						
6-25	13.1	14.3	15.9	17.0	18.4	19.7	21.0	22.3	23.6	25.0	26.3						
	7.1	7.7	8.6	9.2	10.0	10.7	11.4	12.1	12.8	13.5	14.2						
6-50	12.7	13.9	15.2	16.4	17.7	18.9	20.2	21.5	22.8	24.0	25.3						
	6.9	7.5	8.2	8.9	9.6	10.2	10.9	11.6	12.3	13.0	13.7						
6-75	12.2	13.4	14.6	15.9	17.0	18.3	19.5	20.7	22.0	23.2	24.4						
	6.6	7.2	7.9	8.6	9.2	9.9	10.6	11.2	11.9	12.6	13.2						
7-00	12.9	14.1	15.3	16.4	17.5	18.6	19.7	20.8	21.9	22.9	23.9						
	7.0	7.6	8.3	8.9	9.5	10.2	10.8	11.4	12.1	12.7							
7-25	12.5	13.7	14.8	15.9	17.1	18.2	19.4	20.5	21.6	23.0							
	6.7	7.4	8.0	8.6	9.2	9.8	10.5	11.1	11.7	12.4							
7-50	12.0	13.1	14.2	15.3	16.4	17.5	18.7	19.7	20.8	22.0							
	6.5	7.1	7.7	8.3	8.9	9.5	10.1	10.7	11.3	11.9							
7-75	12.8	13.8	14.9	16.0	17.0	18.1	19.2	20.2	21.3								
	6.9	7.5	8.1	8.7	9.2	9.8	10.4	10.9	11.5								
8-00	12.3	13.3	14.3	15.4	16.4	17.4	18.5	19.5	20.5								
	6.7	7.2	7.7	8.3	8.9	9.4	10.0	10.5	11.1								
8-25	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0								
	6.5	7.0	7.6	8.1	8.7	9.2	9.7	10.3	10.8								
8-50	12.6	13.5	14.5	15.5	16.4	17.4	18.4	19.3									
	6.8	7.3	7.8	8.4	8.9	9.4	10.0	10.4									
8-75	12.3	13.2	14.1	15.1	16.0	17.0	17.9	18.8									
	6.7	7.1	7.6	8.2	8.7	9.2	9.7	10.2									
9-00	12.8	13.7	14.6	15.5	16.4	17.3	18.3										
	6.9	7.4	7.9	8.4	8.9	9.4	9.9										
9-25	12.5	13.4	14.3	15.2	16.1	16.9	17.8										
	6.8	7.2	7.7	8.2	8.7	9.1	9.6										
9-50	12.2	13.0	13.9	14.8	15.6	16.5	17.4										
	6.6	7.0	7.5	8.0	8.4	8.9	9.4										
9-75	12.7	13.5	14.4	15.2	16.1	16.9	17.8										
	6.9	7.3	7.8	8.2	8.7	9.1	9.6										
10-00	12.4	13.2	14.0	14.8	15.7	16.5											
	6.7	7.1	7.6	8.0	8.5	8.9											
SIZES GIVEN ARE TO THE NEAREST TENTH OF A FOOT																	

SIZES GIVEN ARE TO THE NEAREST TENTH OF A FOOT

FOCAL LENGTH INCHES	PROJECTION DISTANCE — FEET																	
	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	
2-00	16.4	20.5	24.6	28.8	32.9	37.0	41.1	45.3										
2-125	9.9	12.3	14.8	17.3	19.8	22.2	24.6	27.2										
	15.5	19.4	23.3	27.2	31.1	34.9	38.8	42.7										
2-25	9.3	11.7	14.0	16.4	18.7	21.0	23.3	25.6										
	14.6	18.3	22.0	25.6	29.2	32.9	36.6	40.2	43.9	47.5								
2-50	8.8	11.0	13.2	15.4	17.5	19.8	22.0	24.2	26.4	28.6								
	13.1	16.4	19.7	23.0	26.3	29.6	32.9	36.2	39.5	42.8	45.6							
2-75	7.9	9.9	11.8	13.8	15.8	17.8	19.8	21.8	23.8	25.7	27.4							
	12.0	15.0	17.9	20.9	23.9	26.9	29.9	32.9	36.0	39.0	42.0	45.0	48.1					
3-00	7.2	9.0	10.7	12.5	14.3	16.2	17.9	19.8	21.7	23.5	25.3	27.1	29.0					
	10.9	13.7	16.4	19.2	22.0	24.6	27.4	30.2	32.9	35.7	38.4	41.1	43.9	45.7				
3-25	6.6	8.2	9.9	11.5	13.2	14.8	16.5	18.1	19.8	21.4	23.1	24.7	26.4	28.0				
	12.7	15.2	17.7	20.2	22.8	25.3	27.8	30.4	32.9	35.5	38.0	40.5	43.0	45.6				
3-50	7.6	9.1	10.6	12.2	13.7	15.2	16.7	18.2	19.8	21.3	22.8	24.3	25.8	27.4				
	11.7	14.1	16.4	18.8	21.1	23.5	25.9	28.3	30.5	32.9	35.2	37.5	39.9	42.3	44.7	47.0		
3-75	7.1	8.5	9.9	11.3	12.7	14.2	15.6	17.0	18.3	19.8	21.2	22.5	23.9	25.3	26.7	28.2		
	10.9	13.1	15.3	17.5	19.7	22.0	24.0	26.3	28.6	30.7	32.9	35.2	37.5	39.7	41.9	44.1		
4-00	6.6	7.8	9.2	10.5	11.8	13.2	14.5	15.8	17.2	18.4	19.8	21.2	22.4	23.7	25.0	26.4		
	12.3	14.3	16.4	18.5	20.5	22.6	24.6	26.7	28.8	30.8	32.9	35.0	37.0	39.1	41.1	43.1		
4-25	7.4	8.6	9.9	11.1	12.3	13.6	14.8	16.0	17.3	18.5	19.8	21.0	22.2	23.4	24.8			
	11.7	13.5	15.5	17.4	19.3	21.2	23.2	25.2	27.1	29.1	30.9	32.9	34.9	36.8	38.8			
4-50	7.1	8.1	9.3	10.5	11.6	12.7	13.9	15.1	16.3	17.5	18.6	19.8	21.0	22.1	23.2			
	10.9	12.8	14.6	16.4	18.3	20.1	22.0	23.7	25.6	27.4	29.2	31.0	32.9	34.8	36.6			
4-75	6.6	7.7	8.8	9.9	11.0	12.1	13.2	14.2	15.4	16.5	17.5	18.6	19.8	21.0	22.0			
	12.2	13.9	15.7	17.3	19.0	20.7	22.5	24.2	26.0	27.6	29.4	31.1	32.9	34.7				
5-00	11.6	13.1	14.9	16.4	18.1	19.7	21.4	23.0	24.6	26.3	27.9	29.6	31.3	32.9	34.5	36.1		
	10.9	12.5	14.1	15.7	17.2	18.8	20.3	21.8	23.5	25.1	26.7	28.3	29.8	31.3				
5-25	6.6	7.5	8.5	9.4	10.3	11.3	12.2	13.2	14.1	15.1	16.0	17.0	17.9	18.8				
	12.0	13.5	15.0	16.4	17.9	19.4	20.9	22.4	23.9	25.4	26.9	28.4	29.9	31.3				
5-50	7.2	8.1	9.0	9.9	10.8	11.7	12.6	13.5	14.4	15.3	16.2	17.1	18.0					
	11.3	12.8	14.2	15.7	17.1	18.6	20.0	21.4	22.9	24.3	25.8	27.2	28.6					
5-75	6.8	7.8	8.5	9.4	10.3	11.2	12.0	12.9	13.7	14.6	15.5	16.6	17.2					
	10.9	12.3	13.7	15.1	16.4	17.8	19.2	20.5	22.0	23.3	24.6	26.0	27.4					
6-00	6.6	7.7	8.2	9.1	9.9	10.7	11.5	12.3	13.2	14.0	14.8	15.6	16.5					
	11.9	13.1	14.3	15.9	17.0	18.4	19.7	21.0	22.3	23.6	25.0	26.3						
6-25	7.2	7.9	8.6	9.6	10.2	11.1	11.8	12.6	13.4	14.2	15.0	15.8						
	11.4	12.7	13.9	15.2	16.4	17.7	18.9	20.2	21.5	22.8	24.0	25.3						
6-50	6.9	7.6	8.4	9.1	9.9	10.6	11.3	12.1	12.9	13.7	14.4	15.2						
	10.9	12.2	13.4	14.6	15.9	17.0	18.3	19.5	20.7	22.0	23.2	24.4						
6-75	6.6	7.3	8.1	8.8	9.6	10.2	11.0	11.7	12.4	13.2	13.9	14.7						
	11.7	12.9	14.1	15.3	16.4	17.5	18.8	19.9	21.1	22.3	23.5							
7-00	7.0	7.7	8.5	9.2	9.9	10.5	11.3	12.0	12.7	13.4	14.1							
	11.4	12.5	13.7	14.8	15.9	17.1	18.2	19.4	20.5	21.6	23.0							
7-25	6.9	7.5	8.2	8.9	9.6	10.3	10.9	11.7	12.3	13.0	13.8							
	10.9	12.0	13.1	14.2	15.3	16.4	17.5	18.7	19.7	20.8	22.0							
7-50	6.6	7.2	7.9	8.5	9.2	9.9	10.5	11.2	11.8	12.5	13.2							
	11.7	12.8	13.8	14.9	16.0	17.0	18.1	19.2	20.2	21.3								
7-75	7.0	7.7	8.3	9.0	9.6	10.2	10.9	11.5	12.1	12.8								
	11.2	12.3	13.3	14.3	15.4	16.4	17.4	18.5	19.5	20.5								
8-00	6.7	7.4	8.0	8.6	9.2	9.9	10.5	11.1	11.7	12.3								
	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0								
8-25	6.6	7.2	7.8	8.4	9.0	9.6	10.2	10.8	11.4	12.0								
	11.7	12.6	13.5	14.5	15.5	16.4	17.4	18.4	19.3									
8-50	7.0	7.6	8.1	8.7	9.3	9.9	10.5	11.1	11.6									
	11.3	12.3	13.2	14.1	15.1	16.0	17.0	17.9	18.8									
8-75	6.8	7.4	7.9	8.5	9.1	9.6	10.2	10.8	11.3									
	11.0	11.8	12.8	13.7	14.6	15.5	16.4	17.3	18.3									
9-00	6.6	7.1	7.7	8.2	8.8	9.3	9.9	10.4	11.0									
	11.6	12.5	13.4	14.3	15.2	16.1	16.9	17.8										
9-25	7.0	7.5	8.1	8.6	9.1	9.7	10.2	10.7	11.2									
	11.3	12.2	13.0	13.9	14.8	15.6	16.5	17.4										
9-50	6.8	7.3	7.8	8.3	8.9	9.4	9.9	10.5	11.0									
	11.0	11.8	12.7	13.5	14.4	15.2	16.1	16.9										
9-75	6.6	7.1	7.6	8.1	8.6	9.1	9.7	10.1	10.6									
	11.5	12.4	13.2	14.0	14.8	15.7	16.5	17.4										
10-00	6.9	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0									
	6.9	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0									

SIZES GIVEN ARE TO THE NEAREST TENTH OF A FOOT



Everything for the

Cinema and Theatre

DIMENSIONS OF SCREEN PICTURE with Standard Print and at different distances
with lenses of different focal lengths.
STANDARD APERTURE 0.825" x 0.600" with a 1.38 : 1 Aspect Ratio without Anamorph.

FOCAL LENGTH INCHES	PROJECTION DISTANCE — FEET																		
	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200		
2.00	16.4	20.5	24.6	28.8	32.9	37.0	41.1	45.3											
2.125	11.9	14.9	17.9	20.9	23.9	26.9	29.9	32.9											
2.25	15.5	19.4	23.3	27.2	31.1	34.9	38.8	42.7											
2.375	11.3	14.1	16.9	19.8	22.6	25.4	28.2	31.1											
2.50	14.6	18.3	22.0	25.6	29.2	32.9	36.6	40.2	43.9	47.5									
2.625	10.6	13.3	16.0	18.6	21.2	23.9	26.6	29.2	31.9	34.6									
2.75	13.1	16.4	19.7	23.0	26.3	29.6	32.9	36.2	39.5	42.8	45.6								
2.875	9.6	11.9	14.4	16.8	19.1	21.5	23.9	26.3	28.7	31.1	33.5								
3.00	10.1	12.7	15.2	17.7	20.2	22.7	25.2	27.7	30.2	32.7	35.2	37.7	40.2	42.7	45.2	47.7	50.2		
3.125	8.0	10.0	11.9	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0		
3.25	10.1	12.7	15.2	17.7	20.2	22.7	25.2	27.7	30.2	32.7	35.2	37.7	40.2	42.7	45.2	47.7	50.2		
3.375	7.3	9.2	11.0	12.8	14.7	16.6	18.4	20.3	22.1	23.9	25.7	27.6	29.5	31.3	33.1	35.0	36.8		
3.50	9.4	11.7	14.1	16.4	18.8	21.1	23.5	25.9	28.3	30.7	33.1	35.5	37.9	40.3	42.7	45.1	47.5		
3.625	6.8	8.5	10.3	12.1	13.9	15.7	17.5	19.3	21.1	22.9	24.7	26.5	28.3	30.1	31.9	33.7	35.5		
3.75	10.9	13.1	15.3	17.5	19.7	22.0	24.2	26.4	28.6	30.8	33.0	35.2	37.4	39.6	41.8	44.0	46.2		
3.875	7.9	9.6	11.1	12.8	14.4	16.0	17.6	19.1	20.7	22.3	23.9	25.5	27.1	28.7	30.3	31.9	33.5		
4.00	10.2	12.3	14.3	16.4	18.5	20.5	22.6	24.6	26.7	28.8	30.8	32.9	34.9	36.9	38.9	40.9	42.9		
4.125	7.4	8.9	10.4	11.9	13.4	14.9	16.4	17.9	19.4	20.9	22.4	23.9	25.4	26.9	28.4	29.9	31.4		
4.25	9.7	11.7	13.5	15.5	17.2	19.3	21.2	23.2	25.2	27.1	29.1	31.0	32.9	34.9	36.8	38.8	40.7		
4.375	7.1	8.5	9.8	11.2	12.7	14.0	15.4	16.8	18.3	19.7	21.1	22.5	23.9	25.3	26.7	28.1	29.5		
4.50	10.9	12.8	14.6	16.4	18.3	20.1	22.0	23.9	25.8	27.6	29.5	31.4	33.3	35.2	37.1	39.0	40.9		
4.625	8.0	9.3	10.6	11.9	13.3	14.6	16.0	17.2	18.6	20.0	21.2	22.6	23.9	25.3	26.6	28.0	29.3		
4.75	10.4	12.3	13.9	15.7	17.3	19.0	20.7	22.5	24.2	26.0	27.6	29.4	31.1	32.9	34.7	36.4	38.2		
4.875	7.6	8.9	10.1	11.4	12.7	14.0	15.3	16.6	17.9	19.1	20.4	21.7	23.0	24.3	25.6	26.9	28.2		
5.00	11.6	13.1	14.9	16.6	18.3	20.1	22.0	23.9	25.8	27.6	29.5	31.4	33.3	35.2	37.1	39.0	40.9		
5.125	8.4	9.6	10.8	11.9	13.1	14.2	15.4	16.5	17.6	18.7	19.8	20.9	22.0	23.1	24.2	25.3	26.4		
5.25	10.9	12.5	14.1	15.7	17.2	18.8	20.3	21.8	23.3	24.8	26.3	27.8	29.3	30.8	32.3	33.8	35.3		
5.375	7.9	9.1	10.3	11.4	12.5	13.6	14.7	15.8	16.9	17.9	19.1	20.3	21.5	22.8	24.0	25.2	26.4		
5.50	10.5	12.0	13.5	15.0	16.4	17.9	19.4	20.9	22.4	23.9	25.4	26.9	28.4	29.9	31.4	32.9	34.4		
5.625	7.6	8.7	9.8	10.9	11.9	13.0	14.1	15.2	16.3	17.4	18.5	19.6	20.7	21.8	22.9	24.0	25.1		
5.75	11.3	12.8	14.2	15.7	17.1	18.6	20.0	21.4	22.9	24.3	25.8	27.2	28.6	30.0	31.4	32.8	34.2		
5.875	8.3	9.3	10.3	11.4	12.4	13.5	14.5	15.6	16.6	17.7	18.7	19.8	20.8	21.9	22.9	24.0	25.0		
6.00	10.9	12.3	13.7	15.1	16.4	17.8	19.2	20.5	22.0	23.3	24.6	26.0	27.4	28.8	30.1	31.5	32.8		
6.125	8.0	8.9	10.0	10.9	11.9	12.9	13.9	14.9	15.9	16.9	17.9	18.9	19.9	20.9	21.9	22.9	23.9		
6.25	10.5	11.9	13.1	14.3	15.5	16.7	17.9	19.1	20.3	21.5	22.7	23.9	25.1	26.3	27.5	28.7	29.9		
6.375	7.7	8.6	9.5	10.4	11.4	12.4	13.3	14.3	15.3	16.2	17.2	18.1	19.1	20.0	21.0	21.9	22.9		
6.50	11.4	12.7	13.9	15.2	16.4	17.7	18.9	20.2	21.5	22.8	24.0	25.3	26.6	27.9	29.2	30.5	31.8		
6.625	8.3	9.2	10.1	11.0	11.9	12.8	13.7	14.7	15.6	16.6	17.5	18.4	19.4	20.3	21.2	22.1	23.0		
6.75	10.9	12.2	13.4	14.6	15.9	17.0	18.3	19.5	20.7	22.0	23.2	24.4	25.6	26.8	28.0	29.2	30.4		
6.875	7.9	8.8	9.8	10.6	11.6	12.4	13.3	14.2	15.1	16.0	16.9	17.8	18.7	19.6	20.5	21.4	22.3		
7.00	10.5	11.7	12.9	14.1	15.3	16.4	17.5	18.6	19.7	20.8	21.9	23.0	24.1	25.2	26.3	27.4	28.5		
7.125	7.6	8.5	9.4	10.3	11.1	11.9	12.8	13.7	14.5	15.4	16.2	17.1	18.0	18.9	19.8	20.7	21.6		
7.25	10.2	11.4	12.5	13.7	14.8	15.9	17.1	18.2	19.4	20.5	21.6	22.7	23.8	24.9	26.0	27.1	28.2		
7.375	7.4	8.3	9.1	10.0	10.8	11.6	12.4	13.2	14.1	14.9	15.7	16.7	17.6	18.5	19.4	20.3	21.2		
7.50	10.9	12.0	13.1	14.2	15.3	16.4	17.5	18.6	19.7	20.8	21.9	23.0	24.1	25.2	26.3	27.4	28.5		
7.625	7.9	8.7	9.6	10.3	11.1	11.9	12.8	13.6	14.4	15.2	16.0	16.9	17.8	18.7	19.6	20.5	21.4		
7.75	10.6	11.7	12.8	13.8	14.9	16.0	17.0	18.1	19.2	20.2	21.3	22.3	23.4	24.4	25.5	26.5	27.6		
7.875	7.7	8.5	9.3	10.0	10.8	11.6	12.4	13.2	13.9	14.7	15.5	16.3	17.1	17.9	18.7	19.5	20.3		
8.00	10.2	11.2	12.3	13.3	14.3	15.4	16.4	17.4	18.4	19.4	20.4	21.4	22.4	23.4	24.4	25.4	26.4		
8.125	7.4	8.2	8.9	9.7	10.4	11.2	11.9	12.7	13.4	14.2	14.9	15.7	16.4	17.2	17.9	18.7	19.4		
8.25	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0		
8.375	7.3	8.0	8.7	9.5	10.2	10.9	11.6	12.4	13.1	13.8	14.5	15.2	16.0	16.7	17.4	18.1	18.8		
8.50	10.6	11.6	12.6	13.6	14.6	15.6	16.6	17.6	18.6	19.6	20.6	21.6	22.6	23.6	24.6	25.6	26.6		
8.625	7.6	8.5	9.1	9.8	10.5	11.2	11.9	12.7	13.4	14.1	14.8	15.5	16.2	16.9	17.6	18.3	19.0		
8.75	10.4	11.3	12.3	13.2	14.2	15.1	16.0	17.0	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0		
8.875	7.6	8.2	8.9	9.6	10.2	10.9	11.6	12.3	13.0	13.7	14.4	15.1	15.8	16.5	17.2	17.9	18.6		
9.00	11.0	11.8	12.8	13.7	14.6	15.5	16.4	17.3	18.2	19.1	20.0	21.0	22.0	23.0	24.0	25.0	26.0		
9.125	8.0	8.8	9.3	10.0	10.6	11.3	12.0	12.6	13.3	14.0	14.7	15.4	16.1	16.8	17.5	18.2	18.9		
9.25	10.7	11.6	12.5	13.4	14.3	15.2	16.1	17.0	17.9	18.8	19.7	20.6	21.5	22.4	23.3	24.2	25.1		
9.375	7.1	7.8	8.4	9.1	9.7	10.4	11.0	11.7	12.3	12.9	13.6	14.2	14.9	15.5	16.2	16.9	17.6		
9.50	10.4	11.3	12.2	13.0	13.9	14.8	15.7	16.6	17.5	18.4	19.3	20.2	21.1	22.0	22.9	23.8	24.7		
9.625	7.6	8.2	8.9	9.5	10.1	10.8	11.3	12.0	12.7	13.4	14.1	14.8	15.5	16.2	16.9	17.6	18.3		
9.75	10.2	11.0	11.8	12.7	13.5	14.4	15.2	16.1	17.0	17.9	18.8	19.7	20.6	21.5	22.4	23.3	24.2		
9.875	7.4	8.0	8.6	9.2	9.8	10.5	11.0	11.7	12.4	13.1	13.8	14.5	15.2	15.9	16.6	17.3	18.0		
10.00	9.9	10.7	11.5	12.4	13.2	14.0	14.8	15.7	16.5	17.4	18.3	19.1	20.0	20.9	21.8	22.7	23.6		
	7.2	7.8	8.4	9.0	9.6	10.2	10.8	11.4	12.0	12.6	13.2	13.8	14.4	15.0	15.6	16.2	16.8		

SIZES GIVEN ARE TO NEAREST TENTH OF A FOOT

The following table shows the picture height to within 1/10th of a foot, in relation to its width and to the Aspect Ratio indicated.
All sizes based on 0.825" gate aperture without Anamorph.

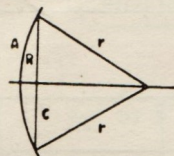
PICTURE WIDTH	PICTURE HEIGHT FOR ASPECT RATIO OF :-									
	1.50	1.66	1.75	1.78	1.85	2.00	2.00	2.00	2.00	2.00
18	12.0	10.8	10.3	10.1	9.8	9.0				
20	13.3	12.0	11.4	11.2	10.8	10.0				
22	14.6	13.2	12.6	12.4	11.9	11.0				
25	16.6	15.0	14.3	14.0	13.5	12.5				

Screen Widths (Arc of Picture) and Rises of Arc (Depth of Curve) when Picture Width and Projection Throw are known

PROJECTION THROW

CHORD OR PICTURE WIDTH

r	60		70		80		90		100		110		120		130		140		150		160		170		180		190		200	
C	A	R	A	R	A	R	A	R	A	R	A	R	A	R	A	R	A	R	A	R	A	R	A	R	A	R	A	R	A	R
24	24.2	1.2	24.1	1.0	24.1	0.9	24.1	0.8	24.1	0.7	24.1	0.7	24.1	0.6																
26	26.2	1.4	26.2	1.2	26.1	1.1	26.1	1.0	26.1	0.9	26.1	0.8	26.1	0.7	26.1	0.6														
28	28.3	1.6	28.2	1.3	28.1	1.2	28.1	1.1	28.1	1.0	28.1	0.9	28.1	0.8	28.1	0.7	28.1	0.6												
30	30.3	1.9	30.2	1.6	30.2	1.4	30.1	1.3	30.1	1.2	30.1	1.0	30.1	0.9	30.1	0.8	30.1	0.8	30.1	0.7										
32	32.4	2.2	32.3	1.9	32.2	1.6	32.2	1.5	32.1	1.3	32.1	1.2	32.1	1.1	32.1	1.0	32.1	0.9	32.1	0.8	32.1	0.8								
34	34.5	2.5	34.4	2.1	34.3	1.8	34.2	1.7	34.1	1.5	34.1	1.4	34.1	1.2	34.1	1.1	34.1	1.0	34.1	0.9	34.1	0.9	34.1	0.8						
36	36.6	2.8	36.4	2.3	36.3	2.0	36.3	1.9	36.2	1.7	36.2	1.5	36.1	1.4	36.1	1.3	36.1	1.2	36.1	1.1	36.1	1.0	36.1	1.0	36.1	0.9				
38	38.7	3.1	38.5	2.6	38.4	2.3	38.3	2.1	38.2	1.9	38.2	1.7	38.2	1.5	38.1	1.4	38.1	1.3	38.1	1.2	38.1	1.1	38.1	1.0	38.1	0.9	38.1	0.9		
40	40.8	3.4	40.6	2.9	40.4	2.5	40.4	2.3	40.3	2.1	40.2	1.9	40.2	1.7	40.2	1.6	40.1	1.5	40.1	1.4	40.1	1.3	40.1	1.2	40.1	1.1	40.1	1.0	40.1	1.0
42	42.9	3.8	42.7	3.2	42.5	2.8	42.4	2.5	42.3	2.3	42.3	2.1	42.2	1.8	42.2	1.7	42.2	1.6	42.1	1.5	42.1	1.4	42.1	1.3	42.1	1.2	42.1	1.1	42.1	1.1
44	45.1	4.2	44.8	3.5	44.6	3.1	44.5	2.8	44.4	2.5	44.3	2.3	44.2	2.0	44.2	1.9	44.2	1.7	44.2	1.6	44.1	1.5	44.1	1.4	44.1	1.3	44.1	1.2	44.1	1.2
46	47.2	4.6	46.9	3.9	46.7	3.4	46.6	3.0	46.4	2.7	46.4	2.5	46.3	2.2	46.2	2.1	46.2	1.9	46.2	1.8	46.2	1.7	46.2	1.6	46.1	1.5	46.1	1.4	46.1	1.4
48	49.4	5.0	49.1	4.3	48.8	3.7	48.7	3.3	48.5	3.0	48.4	2.7	48.3	2.4	48.3	2.2	48.2	2.0	48.2	1.9	48.2	1.8	48.2	1.7	48.2	1.6	48.1	1.5	48.1	1.4
50	51.6	5.5	51.2	4.7	50.9	4.0	50.8	3.6	50.6	3.2	50.5	2.9	50.4	2.6	50.3	2.5	50.3	2.3	50.2	2.1	50.2	2.0	50.2	1.9	50.2	1.8	50.2	1.7	50.1	1.6
52	53.8	5.9	53.4	5.1	53.0	4.3	52.9	4.0	52.7	3.5	52.5	3.2	52.4	2.9	52.4	2.7	52.3	2.5	52.3	2.3	52.2	2.1	52.2	2.0	52.2	1.9	52.2	1.8	52.2	1.7
54			55.6	5.5	55.1	4.7	54.9	4.2	54.7	3.7	54.6	3.4	54.5	3.1	54.4	2.9	54.3	2.7	54.3	2.5	54.3	2.3	54.3	2.2	54.2	2.0	54.2	1.9	54.2	1.8
56			57.7	5.9	57.2	5.1	57.0	4.5	56.8	4.0	56.6	3.6	56.5	3.3	56.5	3.1	56.4	2.9	56.3	2.7	56.3	2.5	56.3	2.3	56.3	2.2	56.2	2.1	56.2	2.0
58			59.9	6.4	59.3	5.4	59.1	4.8	58.9	4.3	58.7	3.9	58.6	3.6	58.5	3.3	58.4	3.1	58.4	2.9	58.3	2.6	58.3	2.5	58.3	2.3	58.3	2.2	58.2	2.1
60			62.1	6.9	61.5	5.8	61.3	5.1	61.0	4.6	60.8	4.2	60.6	3.8	60.6	3.6	60.5	3.3	60.4	3.0	60.4	2.8	60.3	2.7	60.3	2.5	60.3	2.4	60.2	2.3
62			64.3	7.4	63.7	6.2	63.4	5.5	63.1	4.9	62.9	4.5	62.7	4.1	62.6	3.8	62.5	3.5	62.5	3.3	62.4	3.0	62.4	2.9	62.4	2.7	62.3	2.6	62.3	2.4
64					65.8	6.7	65.5	5.8	65.2	5.2	65.0	4.8	64.8	4.4	64.7	4.1	64.6	3.8	64.5	3.5	64.4	3.2	64.4	3.1	64.4	2.9	64.3	2.8	64.3	2.6
66					68.0	7.1	67.7	6.3	67.4	5.5	67.1	5.1	66.9	4.6	66.8	4.3	66.7	4.0	66.6	3.7	66.5	3.5	66.4	3.3	66.4	3.1	66.3	2.9	66.3	2.7
68					70.2	7.6	69.8	6.7	69.5	5.9	69.2	5.4	68.9	4.9	68.8	4.6	68.7	4.3	68.6	4.0	68.5	3.7	68.5	3.5	68.4	3.3	68.4	3.1	68.3	2.9
70					72.4	8.0	72.0	7.1	71.6	6.3	71.3	5.7	71.0	5.2	70.9	4.9	70.8	4.6	70.7	4.2	70.6	3.9	70.5	3.7	70.5	3.5	70.4	3.4	70.4	3.1
72							74.2	7.5	73.7	6.7	73.4	6.0	73.1	5.5	73.0	5.2	72.9	4.8	72.7	4.5	72.6	4.1	72.6	3.9	72.5	3.7	72.4	3.5	72.4	3.3
74							76.5	8.0	75.9	7.1	75.5	6.4	75.3	5.9	75.3	5.5	74.9	5.0	74.8	4.7	74.7	4.4	74.7	4.1	74.6	3.9	74.5	3.7	74.4	3.4



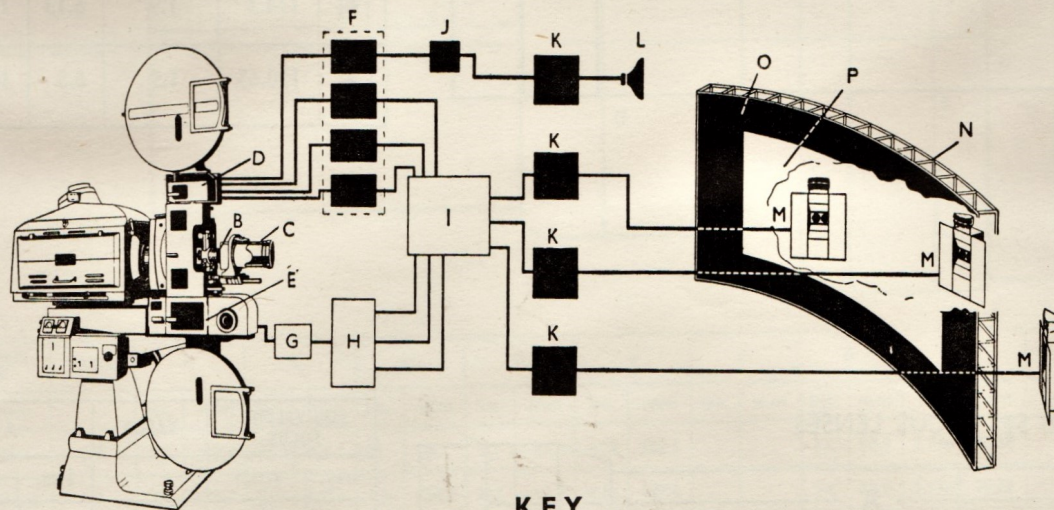
C=CHORD
A=ARC LENGTH
r=RADIUS
R=RISE

NOTICE: All dimensions in the screen tables are given to the nearest tenth of a foot. Picture widths are calculated upon the chord of the screen and not upon the arc

Approximate Calculation
$$R = \frac{C^2}{8r}$$

GAUMONT-KALEE STEREOPHONIC SOUND

The diagram illustrates the complete range of equipment for use with both magnetic and optical stereophonic sound



KEY

- B High Definition backing lens and adaptor.
- C "VARAMORPH" Variable prismatic anamorphic lens and bracket.
- D Four-track Magnetic Soundhead
- E Photographic Soundhead.
- F Magnetic channel pre-amplifier with four independent amplifiers.
- G Photographic Pre-amplifier.
- H Integrator Unit for use with "Perspecta" sound.
- I Main Volume Control and System selector unit.
- J Effects Control Unit.
- K Power Amplifiers for four channels.
- L Auditorium effects speakers.
- M "Duosonic" stage speakers.
- N Magnascope screen frame.
- O Variable masking.
- P Aluminised screen.

Everything for the



Cinema and Theatre

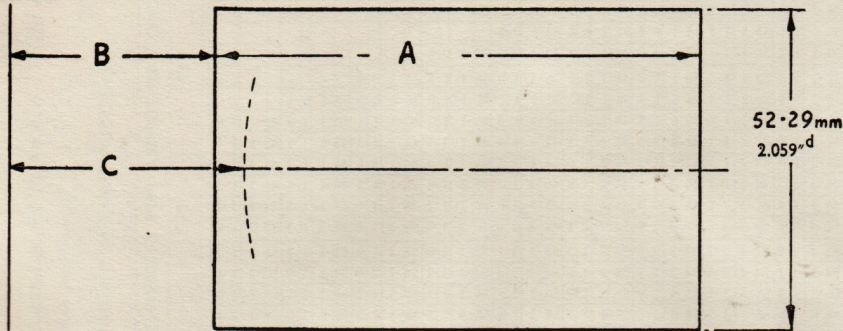
GAUMONT-KALEE

High Definition Projection Lenses Series 'S'

Table of Dimensions

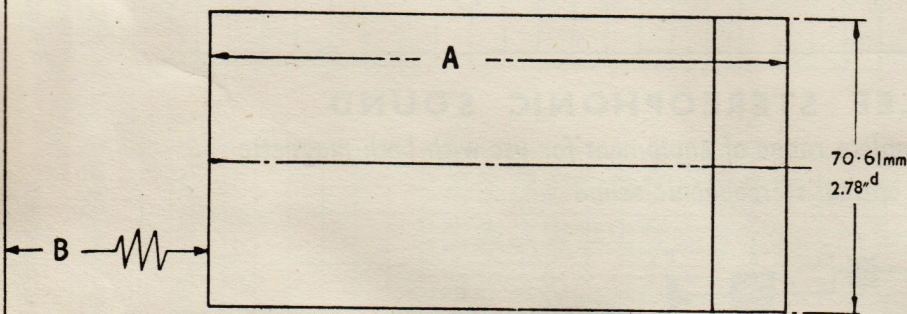
FILM
PLANE

2" to 3 $\frac{3}{4}$ " FOCUS LENSES



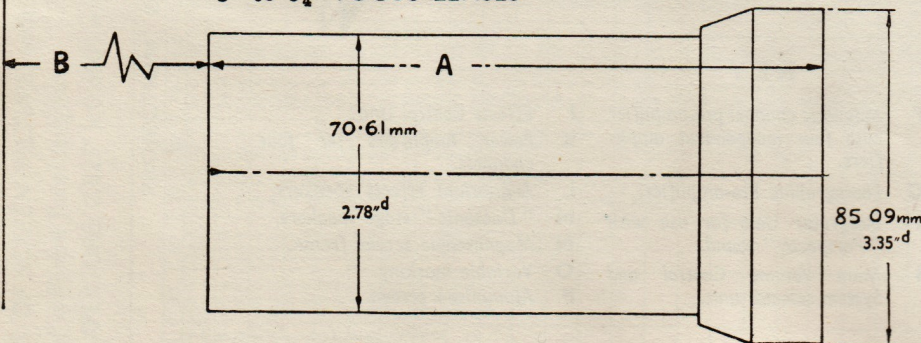
EQUIVALENT FOCUS		VALUE	A		B		C	
ins.	mm		ins.	mm	ins.	mm	ins.	mm
2	50.80	1.8	2.975	75.5	1 $\frac{1}{32}$	37.30	1.627	41.32
2 $\frac{1}{8}$	53.975	1.8	3.035	77	1 $\frac{9}{16}$	39.68	1.73	43.94
2 $\frac{1}{4}$	57.15	1.8	3.125	79.3	1 $\frac{21}{32}$	42.06	1.83	46.48
2 $\frac{1}{2}$	63.5	1.8	3.375	85.7	1 $\frac{27}{32}$	46.03	2.03	51.56
2 $\frac{3}{4}$	69.85	1.8	3.565	90.5	2 $\frac{1}{16}$	52.38	2.24	56.89
3	76.20	2.0	4	101.6	1 $\frac{9}{16}$	39.68	1.71	43.43
3 $\frac{1}{4}$	82.55	2.0	4	101.6	1 $\frac{23}{32}$	43.65	1.85	46.99
3 $\frac{1}{2}$	88.90	2.0	4 $\frac{3}{8}$	111.1	1 $\frac{7}{8}$	47.62	2	50.80
3 $\frac{3}{4}$	95.25	2.0	4 $\frac{5}{8}$	117.4	1 $\frac{31}{32}$	50.00	2.14	54.35

4" to 4 $\frac{3}{4}$ " FOCUS LENSES



EQUIVALENT FOCUS		VALUE	A		B	
ins.	mm		ins.	mm	ins.	mm
4	101.6	1.9	4.97	126.2	3.16	80.26
4 $\frac{1}{4}$	107.95	1.9	5.13	130.3	3.48	88.39
4 $\frac{1}{2}$	114.3	1.9	6.13	155.7	2.98	75.69
4 $\frac{3}{4}$	120.65	1.9	6.5	165.1	3.31	84.07

5" to 5 $\frac{3}{4}$ " FOCUS LENSES



EQUIVALENT FOCUS		VALUE	A		B	
ins.	mm		ins.	mm	ins.	mm
5	127.0	1.9	7.06	179.3	3.25	82.55
5 $\frac{1}{4}$	133.35	1.9	7.53	191.2	3.19	81.03
5 $\frac{1}{2}$	139.7	1.9	8.01	203.4	3.19	81.03
5 $\frac{3}{4}$	146.0	1.9	8.48	215.3	3.19	81.03

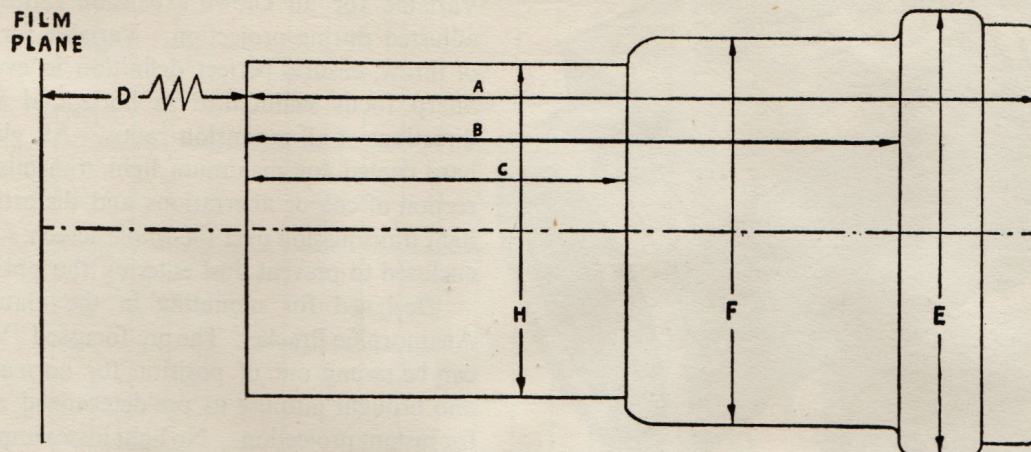
Everything for the



Cinema and Theatre

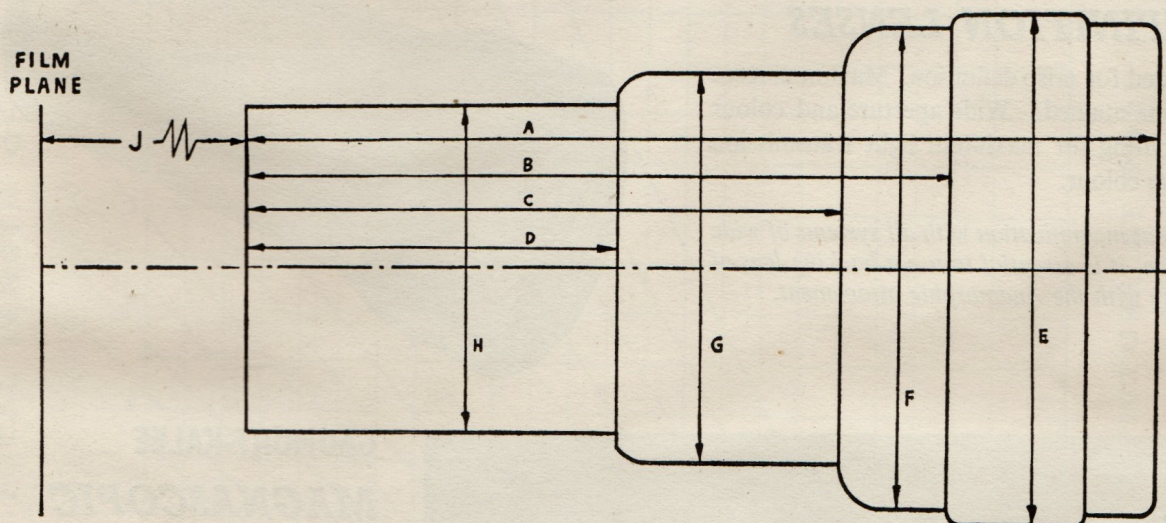
Gaumont-Kalee High Definition Projection Lenses Series 'S'

6" to 6½" FOCUS LENSES



EQUIVALENT FOCUS		VALUE	A		B		C		D		E		F		H	
ins.	mm		ins.	mm	ins.	mm	ins.	mm	ins.	mm	ins.	mm	ins.	mm	ins.	mm
6	152.4	1.9	7 $\frac{3}{16}$	182.5	5 $\frac{7}{8}$	149.2	3 $\frac{7}{16}$	87.3	2 $\frac{1}{8}$	53.97	3.72	94.4	3 $\frac{3}{16}$	80.9	2.778	70.56
6½	158.75	1.9	7 $\frac{3}{8}$	187.3	6	152.4	3 $\frac{3}{8}$	85.7	2¼	57.15	3.86	98	3 $\frac{3}{16}$	80.9	2.778	70.56

6½" to 8" FOCUS LENSES



EQUIVALENT FOCUS		VALUE	A		B		C		D		E		F		G		H		J	
ins.	mm		ins.	mm	ins.	mm	ins.	mm	ins.	mm	ins.	mm	ins.	mm	ins.	mm	ins.	mm	ins.	mm
6½	165.1	1.9	7 $\frac{3}{16}$	198.4	6½	155.5	5¼	146	3¼	82.5	4.02	102.1			3 $\frac{3}{16}$	80.9	2.778	70.56	2¾	60.32
6¾	171.45	1.9	7 $\frac{3}{32}$	202.4	6 $\frac{23}{32}$	170.6	6 $\frac{3}{32}$	154.7	3 $\frac{13}{32}$	91.2	4.16	105.6			3 $\frac{3}{16}$	80.9	2.778	70.56	2½	63.50
7	177.8	1.9	8 $\frac{5}{16}$	211.1	6 $\frac{15}{32}$	164.3	5 $\frac{15}{32}$	138.9	3 $\frac{3}{8}$	85.7	4.30	109.2	4 $\frac{1}{16}$	103.1	3 $\frac{3}{16}$	80.9	2.778	70.56	2 $\frac{5}{8}$	66.67
7¼	184.1	1.9	8½	215.9	6 $\frac{11}{16}$	169.8	5½	139.7	3¼	82.5	4 $\frac{5}{8}$	117.4	4½	104.7	3 $\frac{3}{16}$	80.9	2.778	70.56	2.606	66.19
7½	190.5	1.9	8 $\frac{13}{16}$	223.8	7 $\frac{1}{16}$	179.3	5 $\frac{7}{8}$	149.2	3 $\frac{5}{8}$	92.0	4 $\frac{5}{8}$	117.4	4½	104.7	3 $\frac{3}{16}$	80.9	2.778	70.56	2.696	68.47
7¾	196.8	1.9	9 $\frac{1}{16}$	230.1	7¼	184.1	5 $\frac{5}{16}$	134.9	3	76.2	4 $\frac{7}{8}$	123.8	4½	107.9	3 $\frac{3}{16}$	80.9	2.778	70.56	2.786	70.75
8	203.2	1.9	9 $\frac{5}{16}$	236.5	7½	190.5	5 $\frac{3}{16}$	141.2	3¼	82.5	4 $\frac{7}{8}$	123.8	4½	107.9	3 $\frac{3}{16}$	80.9	2.778	70.56	2.876	73.05

Everything for the



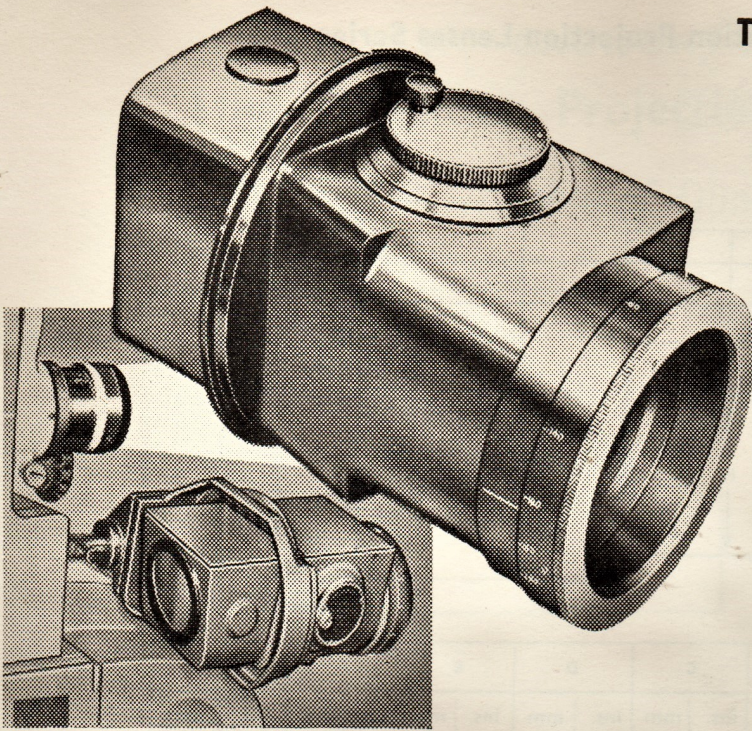
Cinema and Theatre

The GAUMONT-KALEE *Varamorph*

Variable Prismatic Anamorph

Variable for all known expansion ratios ; instantly adjusted during projection. Variable for any length of throw, ensures perfect definition in every cinema. Sharp focus maintained in horizontal and vertical directions at all expansion ratios. All glass surfaces hard coated for maximum light transmission. Correction of colour aberrations and distortion. Equal light transmission over the whole screen. Completely enclosed to prevent dust entering the optical system.

Designed for mounting in the Gaumont-Kalee Anamorphic Bracket. The pre-focussed "Varamorph" can be swung out of position for normal projection and brought into use to pre-determined adjustments, for instant projection. No light losses imposed during normal projection.



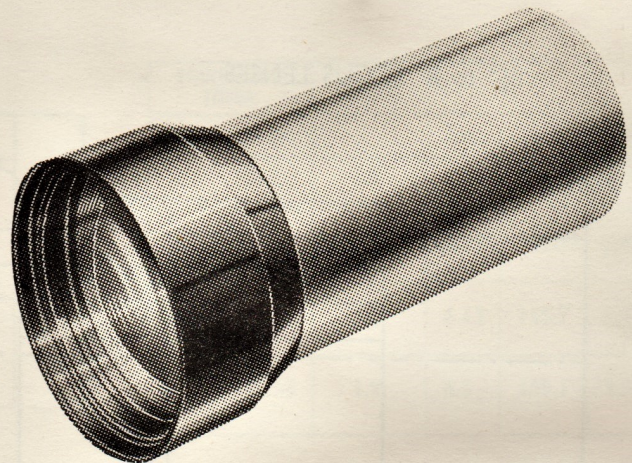
Perfect edge-to-edge definition at ALL RATIOS

GAUMONT-KALEE Series 'S'

HIGH DEFINITION LENSES

Precision collimated for crisp definition. Maximum resolution of picture maintained. Wide aperture and colour corrected hard-coating for maximum light transmission and faithful image colour.

Because of the great magnification with all systems of wide screen presentation, it is essential to use a backing lens of the highest quality with the Anamorphic attachment.

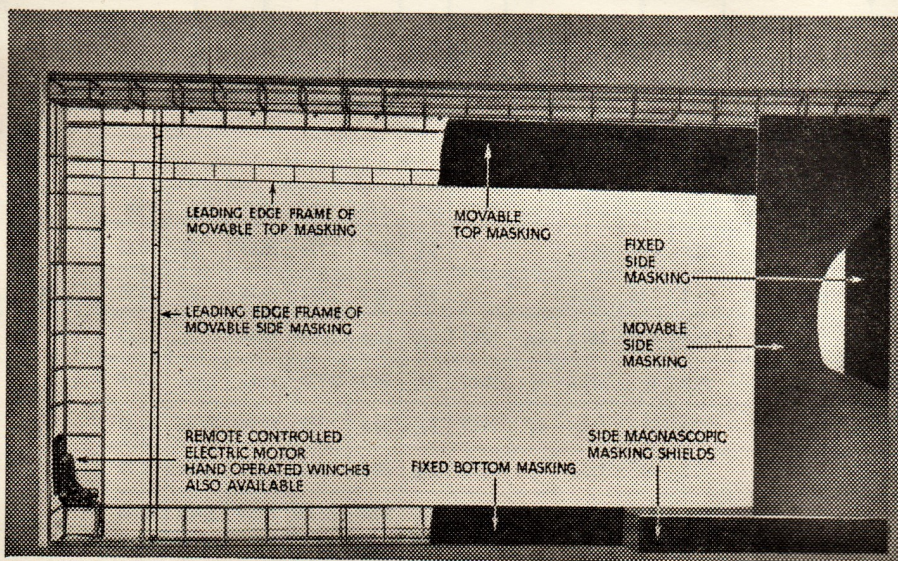


GAUMONT-KALEE

MAGNASCOPIC SCREEN FRAME

for Perfect Presentation

Tubular Steel Screen Frames with magnascopic masking and vertical reefing gear for alteration of the picture area to two or more ratios. Operated either by electric motor with push-button remote control, or hand winches.



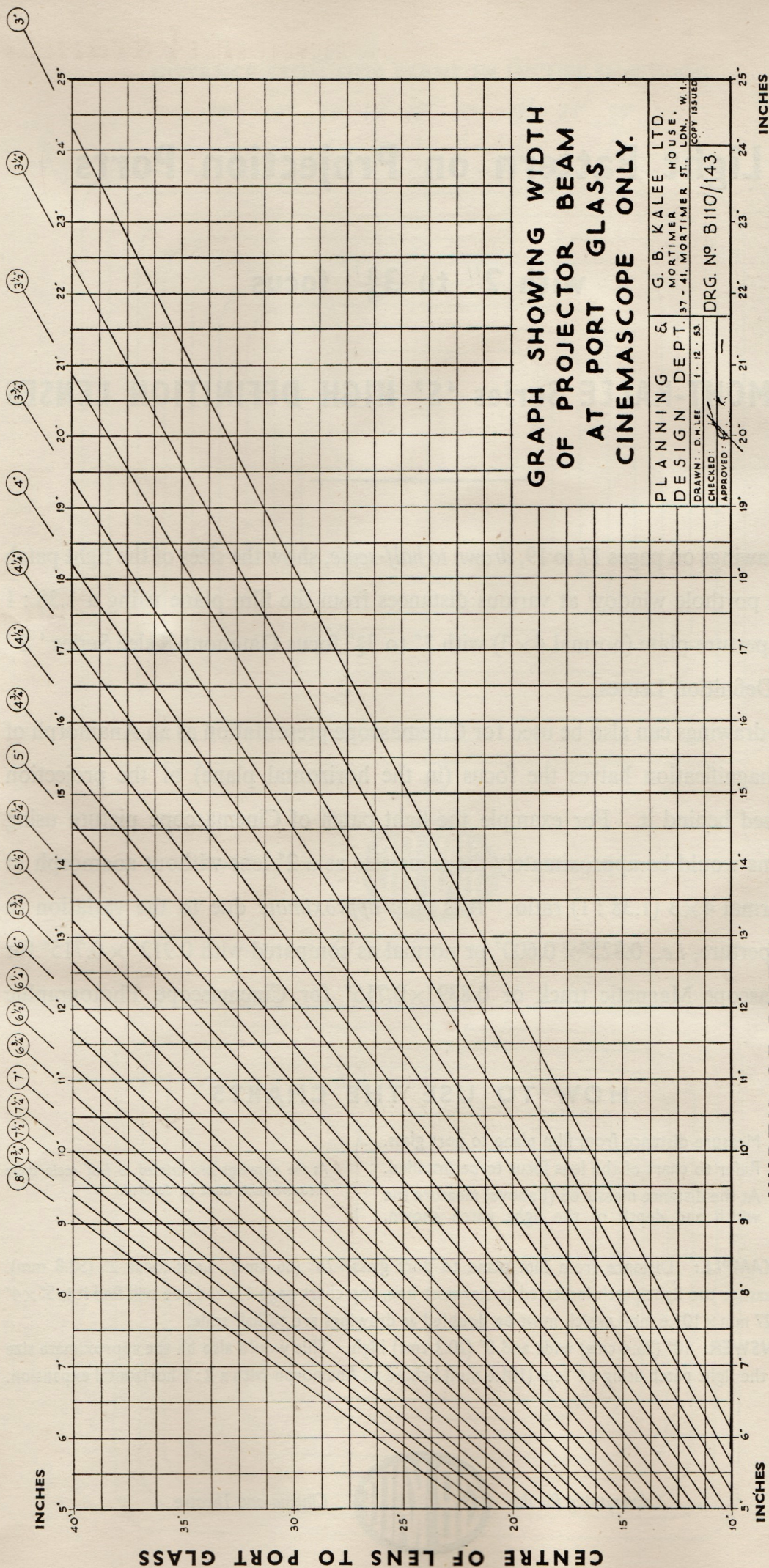
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Cinema and Theatre

Light Pattern on Projection Ports

FOCAL LENGTH OF PROJECTION LENS



WIDTH OF PICTURE AT PORT (CINEMASCOPE 2.55:1).

To find height divide width by 2.55



Everything for the

Cinema and Theatre

Light Pattern on Projection Ports

with 2" to 3 $\frac{3}{4}$ " focus

GAUMONT-KALEE Series 'S' HIGH DEFINITION LENSES

The drawings on pages 17 to 19, *drawn to half-scale*, show the sizes of the light patch on the porthole window at various distances from the film plane using a 1.38 : 1 ratio aperture plate (normal 4×3) with 2" to 3 $\frac{3}{4}$ " focus Gaumont-Kalee Series 'S' High Definition Lenses.

The drawings can also be used for Cinemascope presentation as an Anamorph of 2 : 1 magnification halves the focus (in the horizontal plane) of the projection lens used behind it. For example the light patch of Cinemascope picture using a 4" lens would be approximately the same size as a 2" lens without anamorph at the normal 4×3 (1.38 : 1) ratio. It is only *approximate* due to the variation in gate aperture, *i.e.*, 0.825"×0.600" or normal as compared with 0.912"×0.715" for Cinemascope Magnetic track or 0.839"×0.715" for Cinemascope Photographic track.

HOW TO USE THE CHARTS

- 1 Measure distance from film plane to port glass.
- 2 Refer to chart of the lens focus to be installed.
- 3 At the distance measured (1 above) measure the width and depth of the light patch shown.

As the drawings are printed to half scale these measurements must be doubled.

EXAMPLE: Distance from film plane to port glass—26" (66 cms) Lens focus 2" (50.8 mm). Measure the light patch indicated (outermost line, top chart page 17) and you will find it is 5"×4" (127 mm×101.6 mm) which must be doubled as drawings are to half scale.

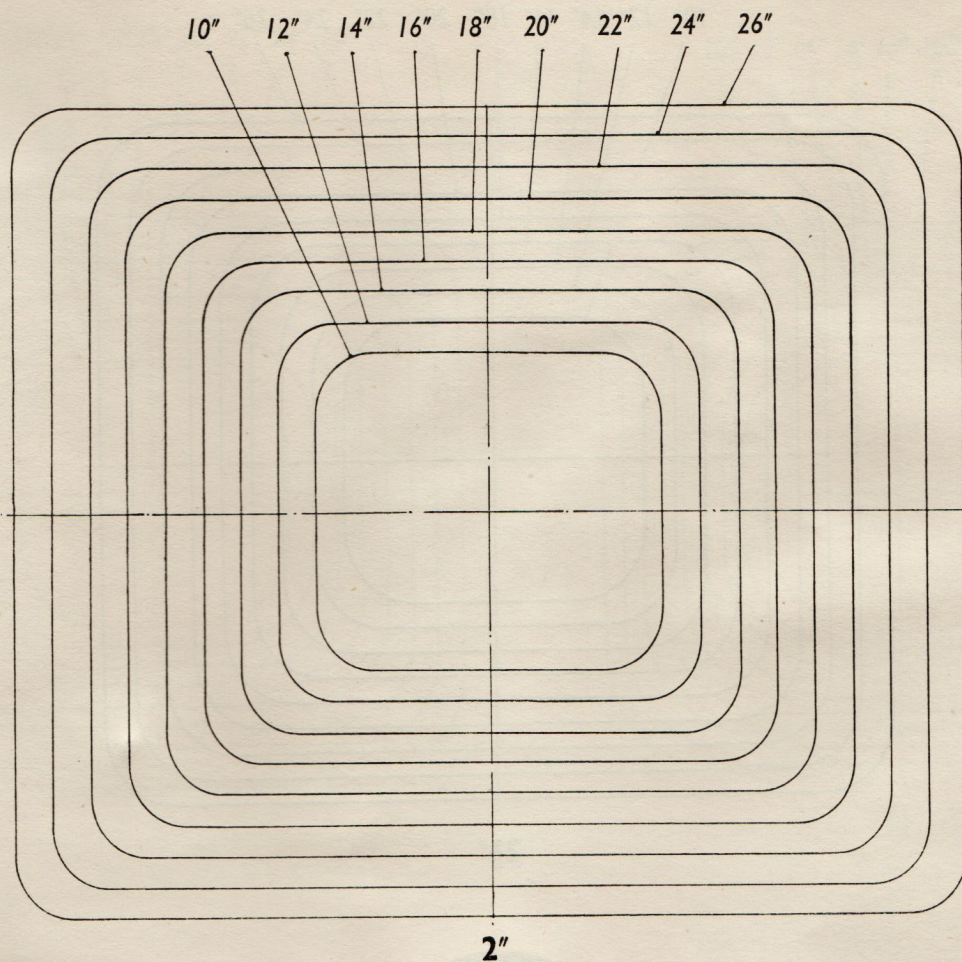
ANSWER: 10" (25.4 cms) wide and 8" (20.3 cms) high. This would also be the approximate size of the light patch using a 4" lens (101.6 mm) behind an Anamorph with a 2 : 1 horizontal expansion.

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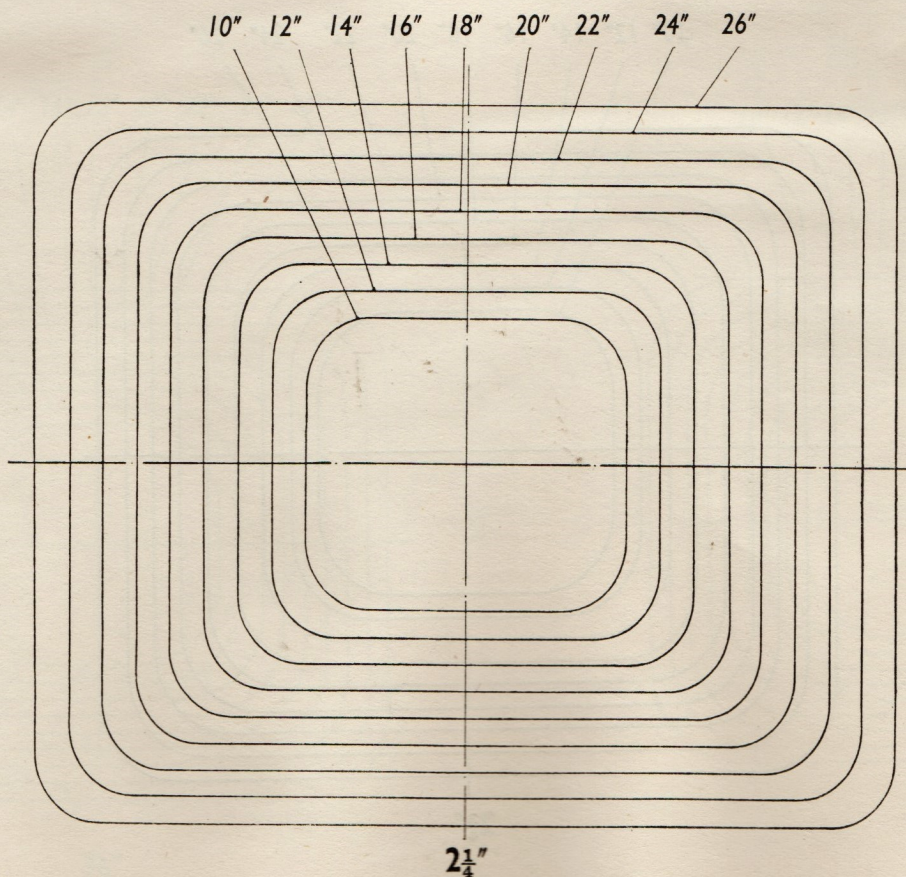
DISTANCE FROM FILM PLANE IN INCHES (Half Scale)



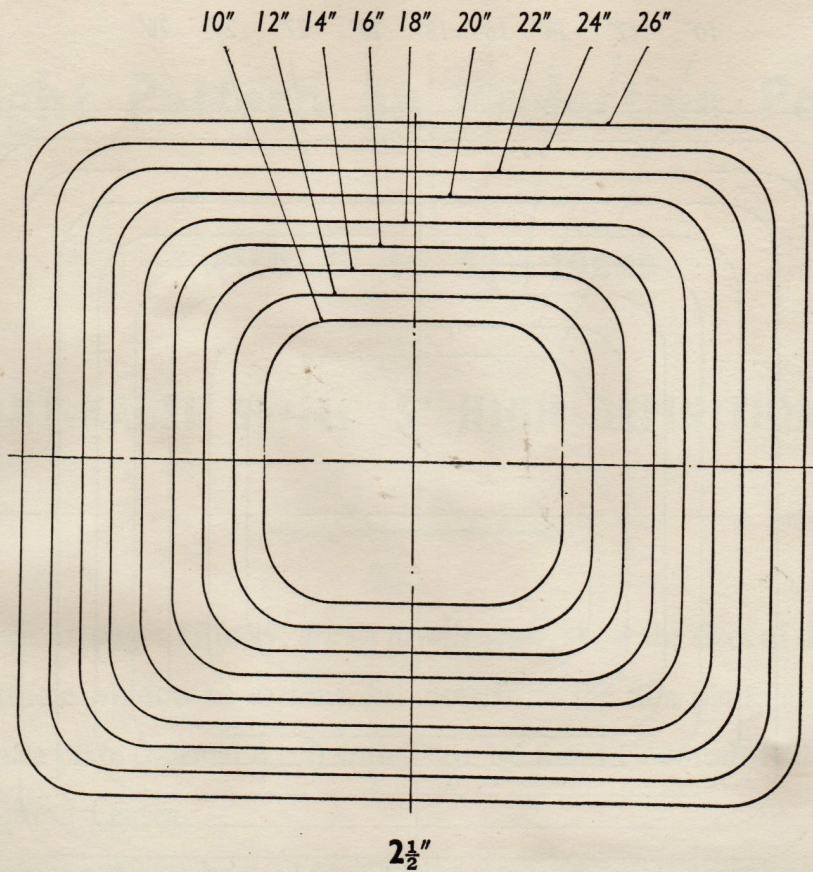
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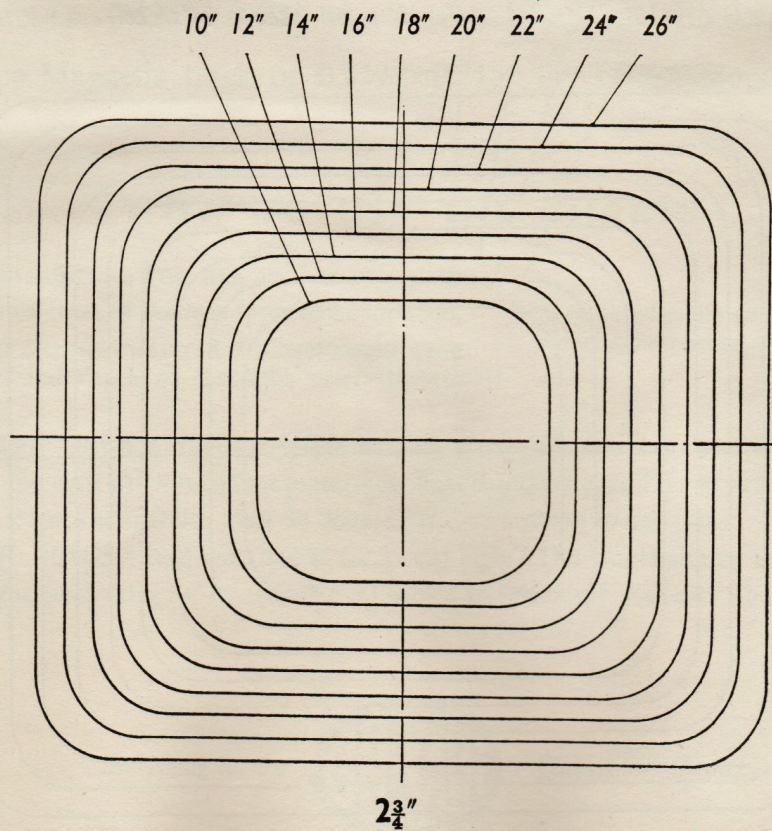
DISTANCE FROM FILM PLANE IN INCHES (Half Scale)



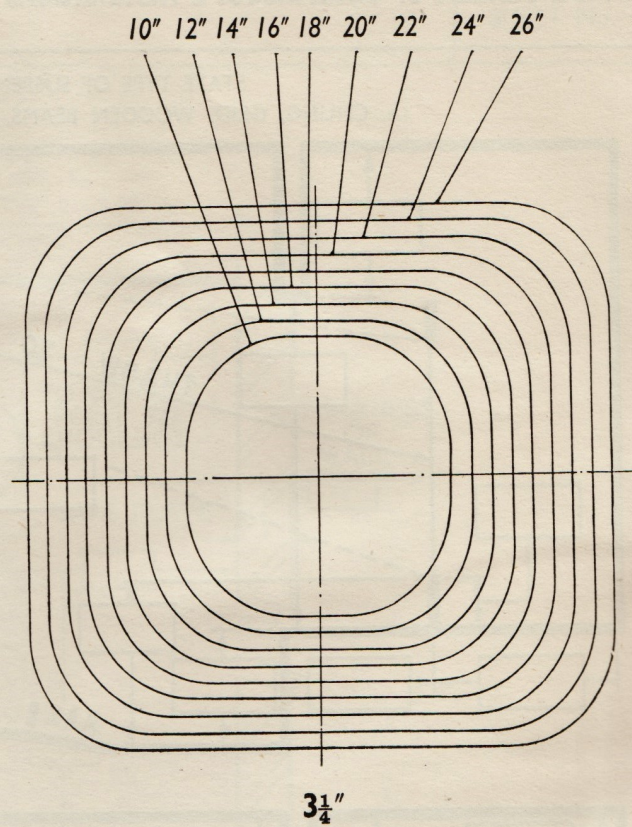
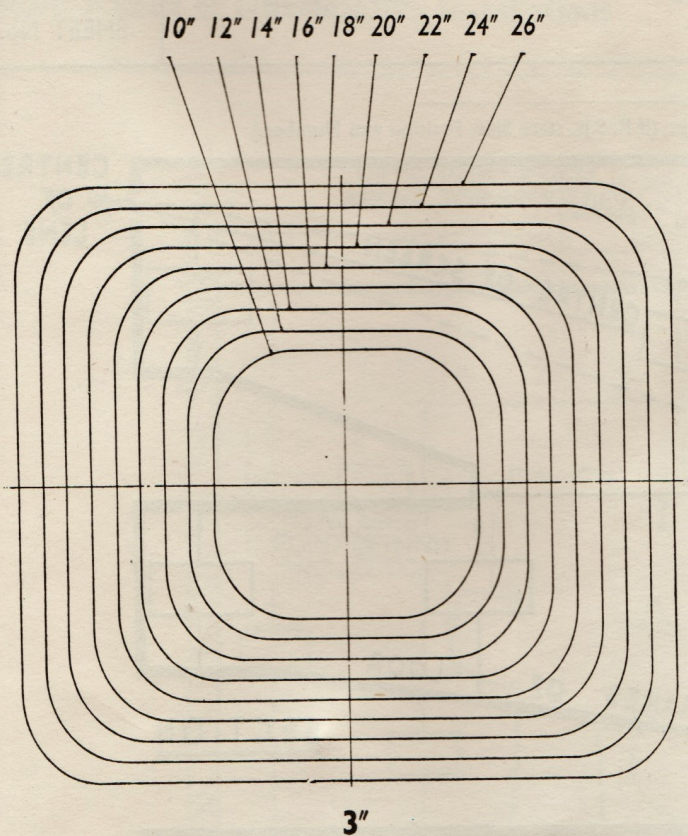
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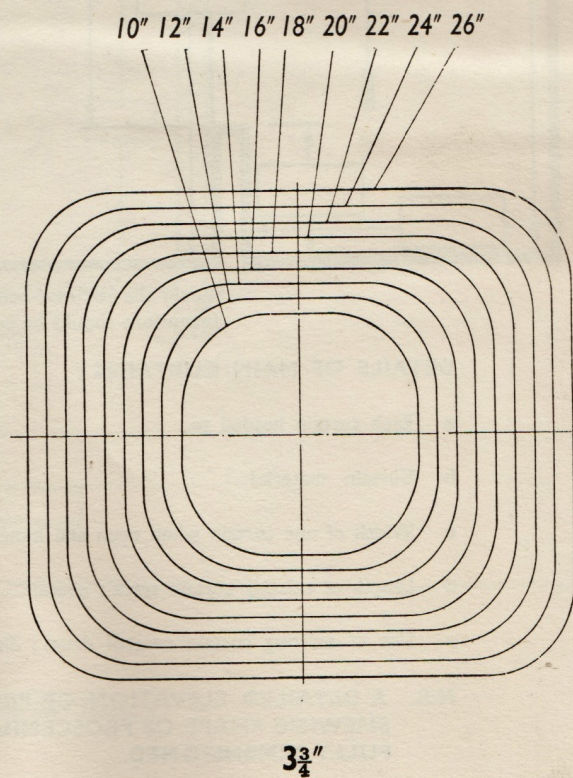
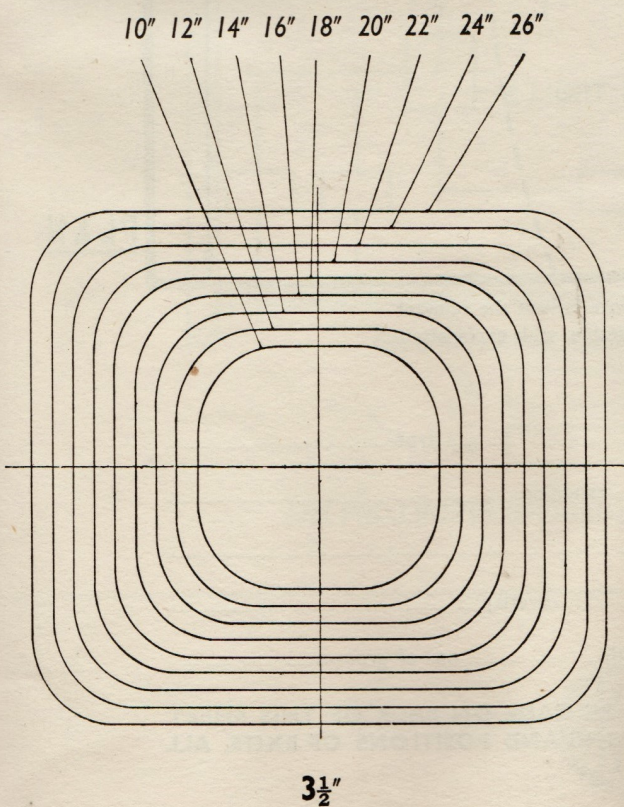
DISTANCE FROM FILM PLANE IN INCHES (Half Scale)



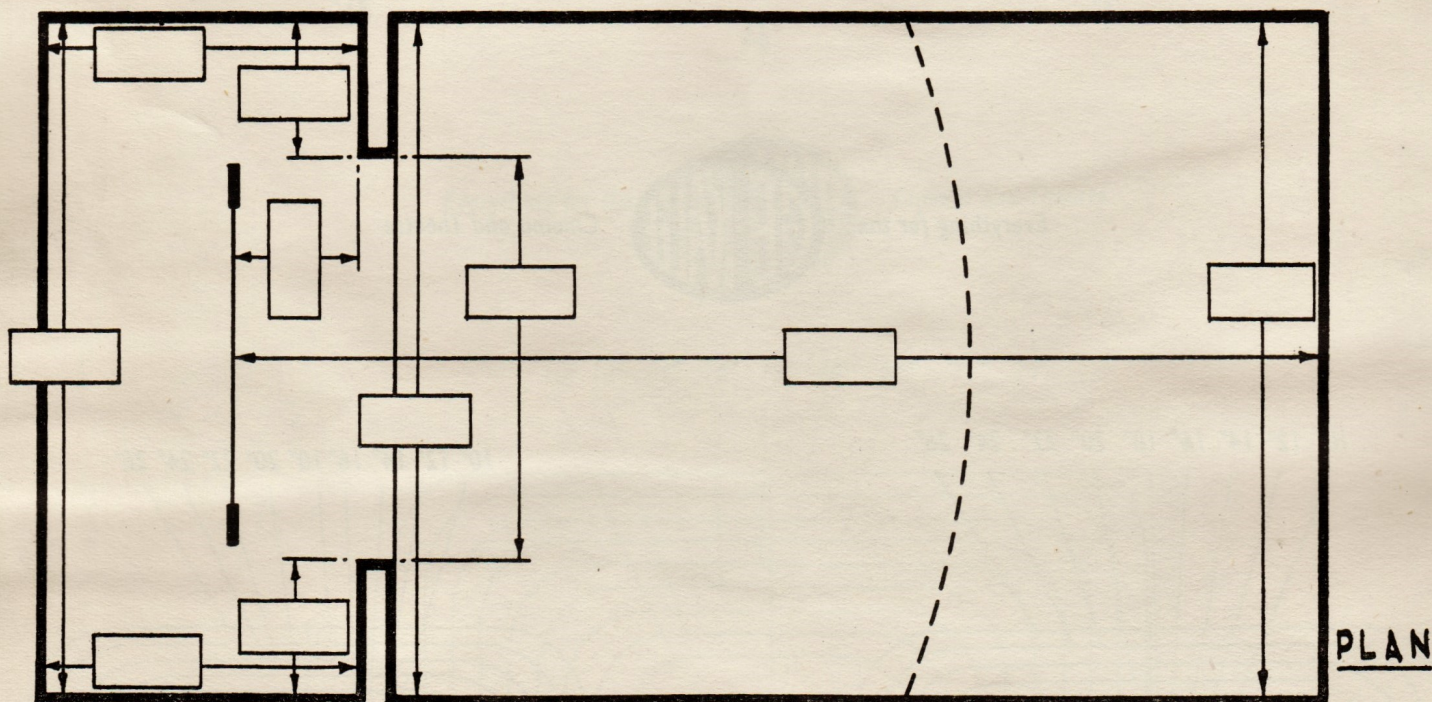
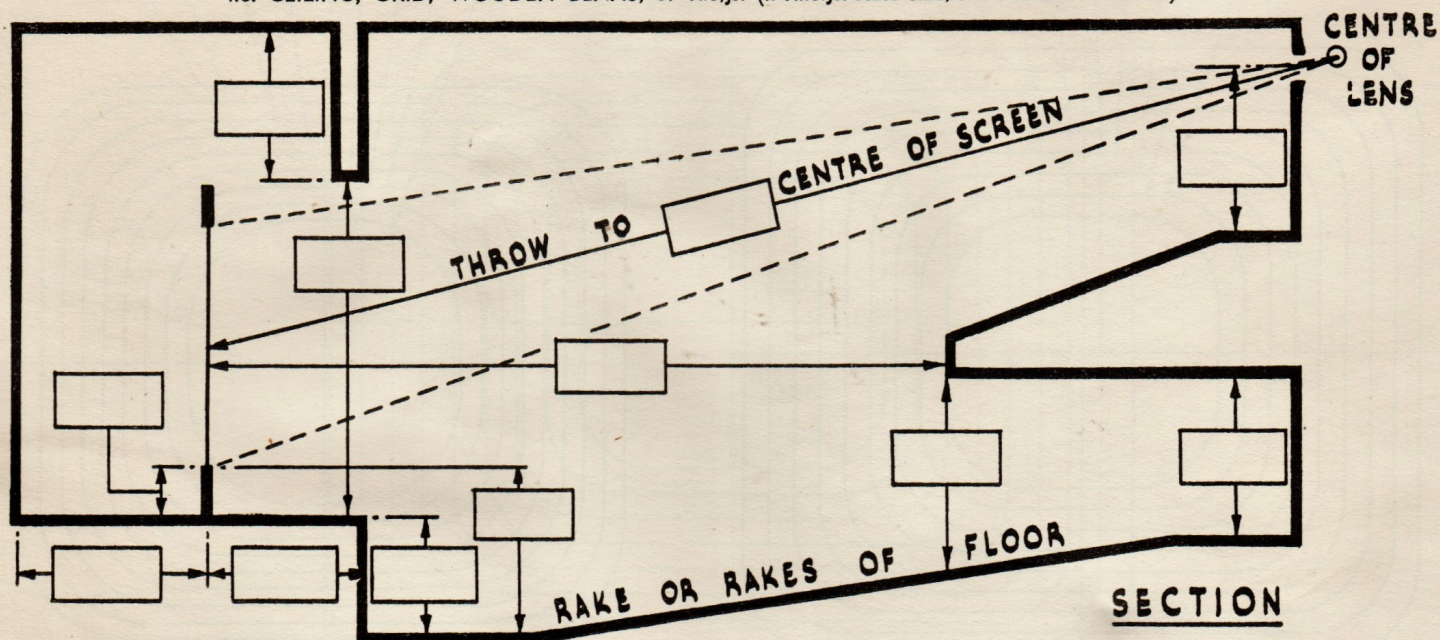
Everything for the



Cinema and Theatre



STATE TYPE OF SUSPENSION.....
i.e. CEILING, GRID, WOODEN BEAMS, or R.S.Js. (If R.S.Js. state Size, Position and Number.)

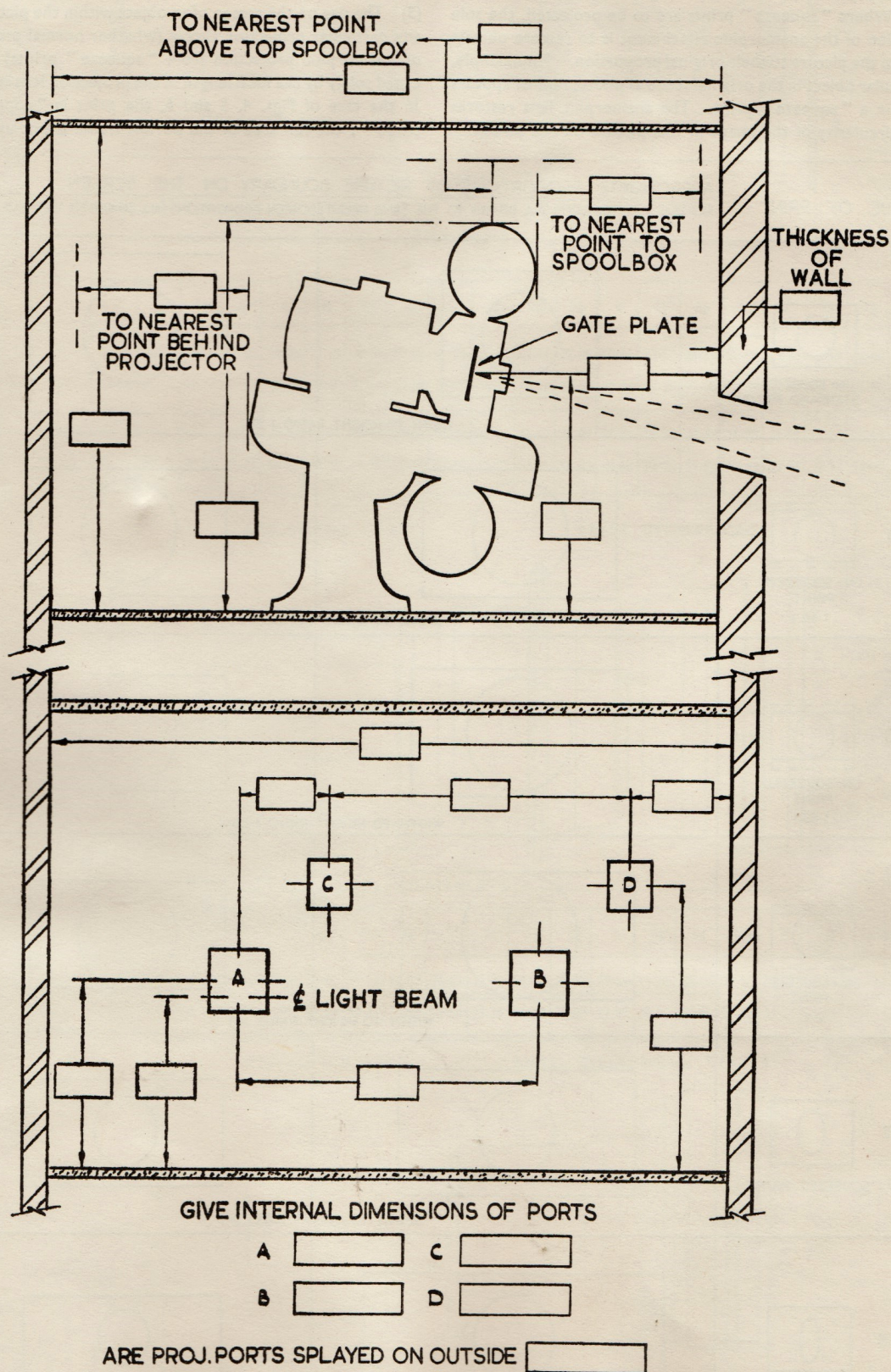


Should the Hall not conform exactly to the above lay-out the relevant dimensions should be completed as far as applicable, with explanation.

DETAILS OF MAIN CURTAINS :

- a Each curtain headed to..... X drop..... type.....
- b Curtain material..... condition.....
- c Width of one curtain when open and bunched, measured at foot.....
- d Length of existing curtain track : overall..... overlap.....
- e Size of existing curtain control drum : diam..... length..... no. of grooves.....

N.B. A DETAILED ELEVATION OF PROSCENIUM MUST BE MADE ON BACK OF THIS SHEET SHEWING SHAPE OF PROSCENIUM, SHAPE OF CEILING AND POSITIONS OF EXITS, ALL FULLY DIMENSIONED.



PROJECTED PICTURE RATIOS

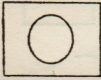
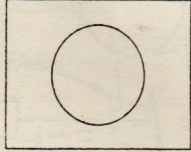
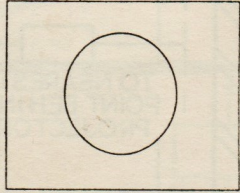
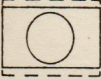
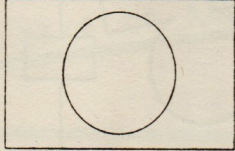
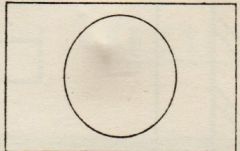
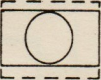
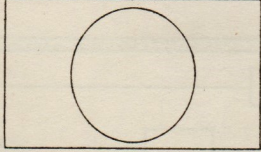
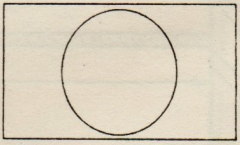
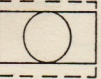
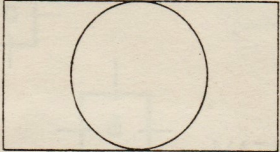
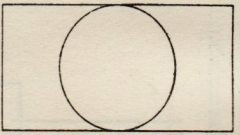
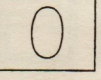
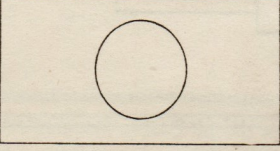
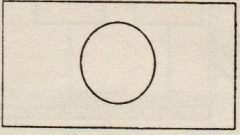
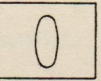
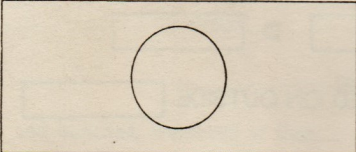
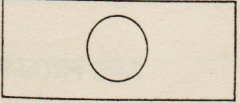
The diagrams illustrate the picture shapes and screen boundaries of various types of print (squeezed and unsqueezed), and the following points are stressed :—

(1) Anamorphic lenses are not required for the showing of standard prints.

(2) Where "squeeze" prints are to be projected, the sole function of the anamorphic attachment is to restore objects within the picture to their original proportion. For example, a circular object in the original scene as photographed appears oval in a "squeeze" print. The anamorphic lens restores the circularity of the image in this picture on the screen.

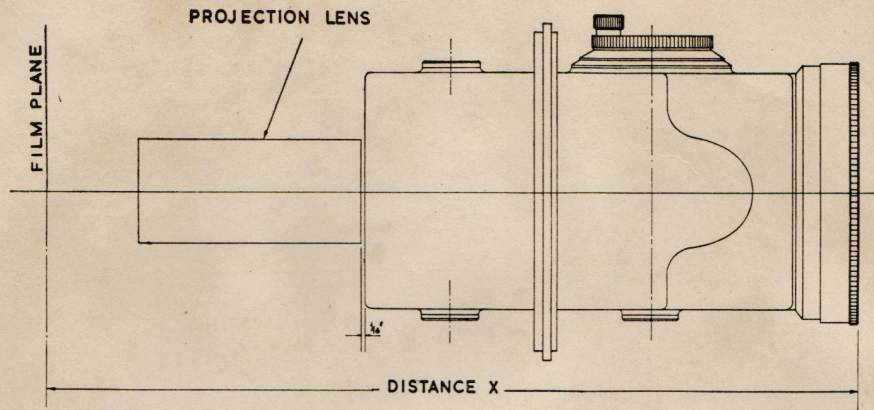
A variable anamorphic lens cannot be used for zooming, or to produce magnascopic effects. If it is set in position other than that prescribed by the degree of compression in the print, distortion will be introduced in the picture on the screen.

(3) The size on the screen of an object within the picture for any particular projection throw (whether normal projection or anamorphic projection from "squeeze" prints) is governed solely by the focal length of the projection lens selected. In the case of Figs. 4, 5 and 6, the print is "topped and tailed"; the full area of the normal frame is not used.

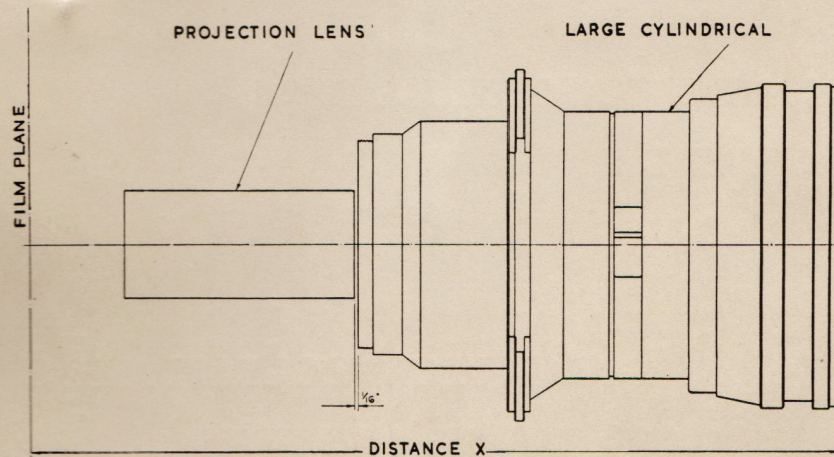
TYPE OF PRINT	APPROXIMATE PROPORTIONS OF PICTURE BOUNDARY ON THE SCREEN	
	SCREEN PROPORTIONS (ALL DRAWN TO THE SAME HEIGHT)	SCREEN PROPORTIONS (ALL DRAWN TO THE SAME WIDTH)
FIG. 3.  UN-SQUEEZED STANDARD PRINT 1.33:1	 WIDTH TO HEIGHT RATIO 1.33:1	
FIG. 4.  UN-SQUEEZED PRINT 1.66:1	 WIDTH TO HEIGHT RATIO 1.66:1	
FIG. 5.  UN-SQUEEZED PRINT 1.85:1	 WIDTH TO HEIGHT RATIO 1.85:1	
FIG. 6.  UN-SQUEEZED PRINT 2:1	 WIDTH TO HEIGHT RATIO 2:1	
FIG. 7.  1½:1 SQUEEZED PRINT	 WIDTH TO HEIGHT RATIO 2:1	
FIG. 8.  2:1 SQUEEZED PRINT	 WIDTH TO HEIGHT RATIO 2.55:1	

DATA FOR GAUMONT-KALEE ANAMORPHIC ATTACHMENTS

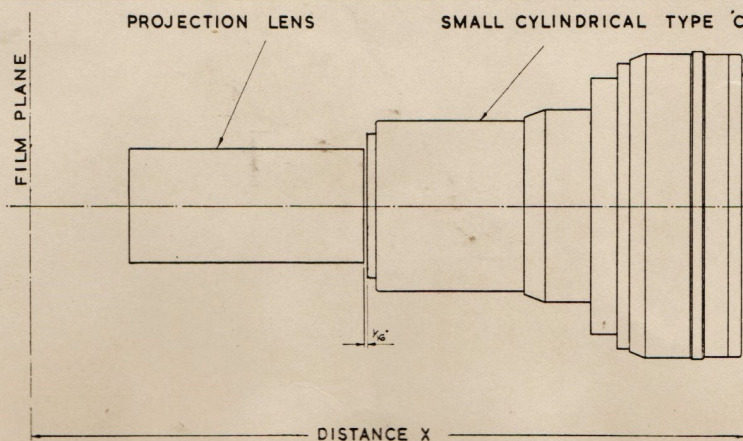
GAUMONT-KALEE VARAMORPH



LENS	...	...	3"	3 1/4"	3 1/2"	3 3/4"	4"	4 1/4"	4 1/2"	4 3/4"	5"	5 1/4"	5 1/2"	5 3/4"	6"	6 1/4"	6 1/2"	6 3/4"	7"	7 1/4"	7 1/2"	7 3/4"	8"
DISTANCE 'X'	Inches		16-18	16-29	16-84	17-20	19-15	19-45	20-13	20-69	21-23	21-63	22-11	22-58	20-25	20-57	21-13	21-41	21-88	21-93	22-33	22-67	23-01
VARAMORPH	Cms		41-09	41-38	42-77	43-69	48-64	49-40	51-13	52-55	53-92	54-94	56-16	57-35	51-44	52-25	53-67	54-38	55-58	55-70	56-72	57-58	58-45
DISTANCE 'X'	Inches		15-49	15-6	16-16	16-51	18-46	18-76	19-44	20-0	20-54	20-94	21-42	21-89	19-56	19-88	20-44	20-72	21-19	21-24	21-64	21-98	22-32
TYPE "P"	Cms		39-34	39-62	41-05	41-93	46-89	47-65	49-38	50-80	52-17	53-19	54-41	55-60	49-68	50-50	51-92	52-63	53-82	53-95	54-97	55-93	56-69



LENS	...	...	3"	3 1/4"	3 1/2"	3 3/4"	4"	4 1/4"	4 1/2"	4 3/4"	5"	5 1/4"	5 1/2"	5 3/4"	6"	6 1/4"	6 1/2"	6 3/4"	7"	7 1/4"	7 1/2"	7 3/4"	8"
DISTANCE 'X'	Inches		15-89	16-05	16-58	16-92	18-54	18-85	19-53	20-07	20-62	21-02	21-50	21-97	19-64	19-96	20-52	20-80	21-27	21-32	21-72	22-06	22-40
	Cms		40-36	40-77	42-11	42-98	47-09	47-88	49-61	50-98	52-38	53-39	54-61	55-80	49-89	50-70	52-12	52-83	54-03	54-15	55-17	56-03	56-90



LENS	...	...	3"	3 1/4"	3 1/2"	3 3/4"	4"	4 1/4"	4 1/2"	4 3/4"	5"	5 1/4"	5 1/2"	5 3/4"	6"	6 1/4"	6 1/2"	6 3/4"	7"	7 1/4"	7 1/2"	7 3/4"	8"
DISTANCE 'X'	Inches		13-13	13-28	13-81	14-15	15-77	16-08	16-75	17-30	17-85	18-25	18-75	19-20	16-87	17-18	17-75	18-03	18-50	18-55	18-95	19-30	19-63
	Cms		33-35	33-73	35-08	35-94	40-06	40-84	42-55	43-94	45-34	46-36	47-63	48-77	42-85	43-64	45-09	45-80	46-99	47-12	48-13	49-02	49-86



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OUR REF. MWB

YOUR REF.

28th September 1955.

Dear Mr. Exhibitor,

We are sending you a copy of our latest booklet 'Projection Tables', which has been produced to assist Exhibitors, Engineers, and Architects in the selection of the correct optical equipment and screen for Wide Screen Film Presentation.

It contains many tables and drawings hitherto unpublished, which, with one exception, were produced by our Planning and Design Division, and drawing offices of allied Companies in the British Optical and Precision Engineers' Group.

We believe the book will take an important place in the library of everyone connected with the Cinematograph Industry, and hope it will prove of some value and interest to you and your chief projectionist.

Yours faithfully,
G.B-KALEE LIMITED,

Martin W. Beer

Martin W. Beer,
Sales Manager.



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