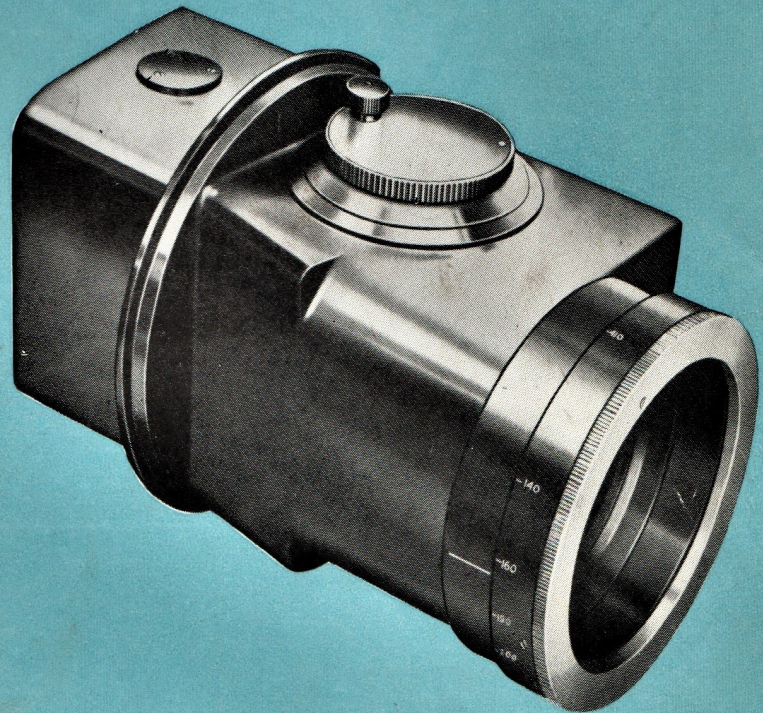


For perfection and for the future install the **GAUMONT-KALEE 'Varamorph'**

Variable Prismatic Anamorph

The Gaumont-Kalee "Varamorph" is a development of the Gaumont-Kalee fixed prism type, which won universal praise for its superb performance, and for its unique edge-to-edge definition. It is designed by Taylor, Taylor & Hobson, a name which stands for the finest motion picture camera lenses in every important Studio in the world. The "Varamorph" can be used for all anamorphic prints that have horizontal compression ratios between 1·3 : 1 and 2 : 1, giving picture ratios from 1·78 : 1 up to 2·55 : 1 with the appropriate aperture plate.

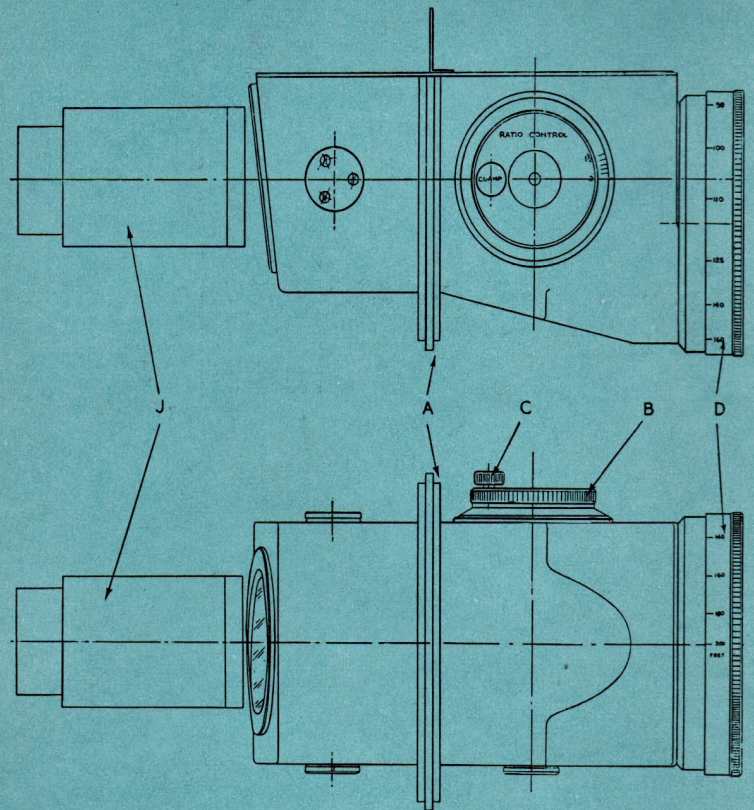
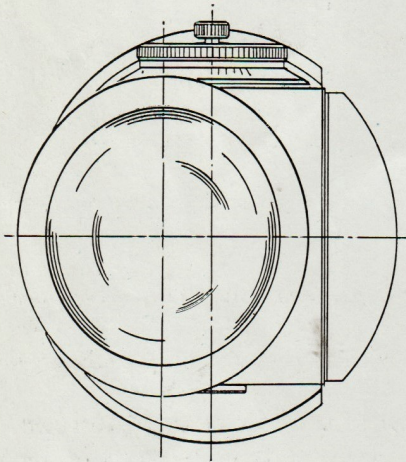
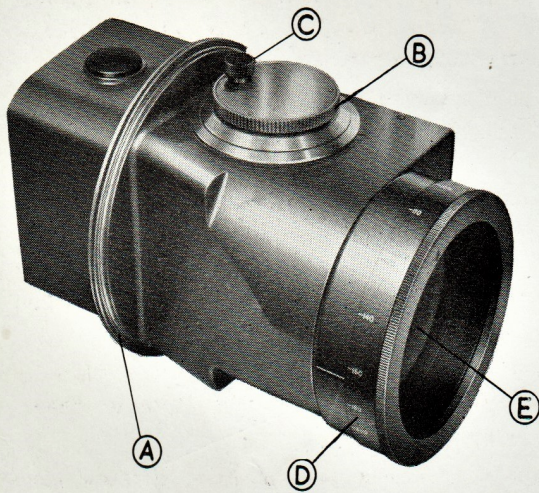


- ★ **Variable for all known expansion ratios** ; instantly adjusted during projection by a knob which can be locked in position.
- ★ **Variable for any length of throw**. Special focus control of the front lens by a graduated ring to ensure perfect definition at any length of throw. All glass surfaces hard coated for maximum light transmission.
- ★ **Sharp focus retained in horizontal and vertical directions** at all expansion ratios. Correction of colour aberration and distortion effected by prisms of complex forms.
- ★ **Equal light transmission over the whole screen**.
- ★ **Completely enclosed to prevent dust entering optical system**.
- ★ **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

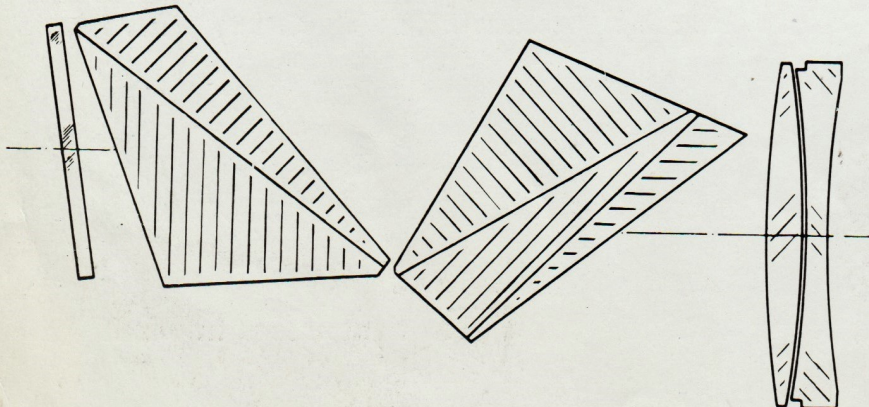
Gaumont-Kalee 'VARAMORPH'

Variable Prismatic Anamorph



- A Flange for fixing the lens to the Gaumont-Kalee anamorphic bracket.
- B Knob for adjusting the expansion ratio of the prisms.
- C Locking nut.
- D Scale for adjusting the focus of the front lens to suit the projection throw.
- E The focussing lens.

The drawings above are of the top, side and front elevation of the "Varamorph" variable prismatic anamorphic lens, and show how it is positioned, in every case as close as possible to the backing lens (J).



The optical components of the Gaumont-Kalee Varamorph. On the left is the cover glass and on the right the focussing lens. The additional sections of the prisms are for colour and distortion correction, essential for high quality performance in the Theatre.

An infinite number of picture sizes can be obtained by the turn of a knob. Tables showing the dimensions of four aspect ratios are printed on pages 4 to 11.

Fig. A

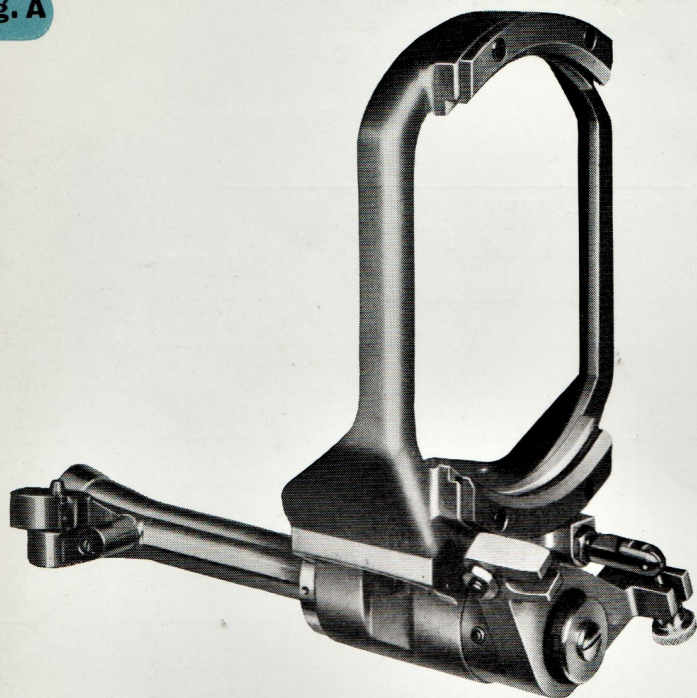


Fig. B

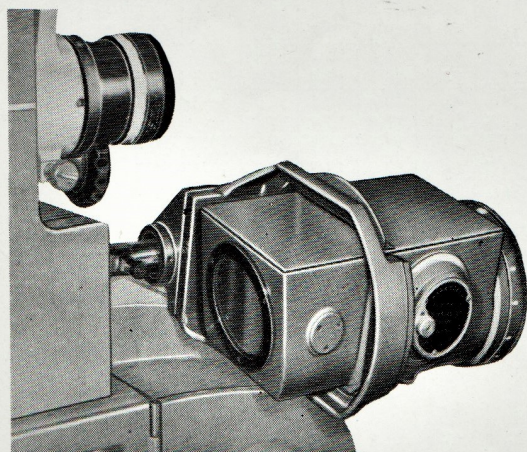
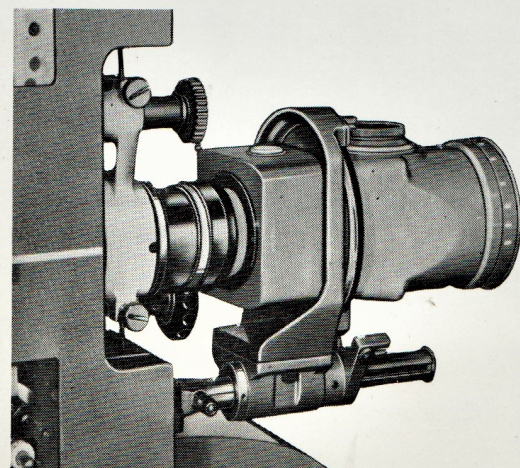


Fig. C



Gaumont-Kalee

ANAMORPHIC LENS BRACKET

Optical and projection experts are agreed on the merits and superior advantages of the mechanical principle of fixing anamorphic lenses as employed in the Gaumont-Kalee bracket (Fig. A).

- It is the only efficient and assured method of instantaneous changeover from one type of film system to another.
- The pre-focussed 'Varamorph' can be swung out of the optical path (Fig. B) for the projection of normal films, and brought back into use (Fig. C) in perfect focus, to pre-determined adjustments for instant projection of anamorphic prints.
- No light losses are imposed during projection of normal films, and damage to valuable lenses in change-over is avoided.
- An adaptor is also available for fitting standard fixed type cylindrical anamorphs in the bracket, for use with ultra short or long focus lenses.
- Models are available for fixing to all important makes of projectors.

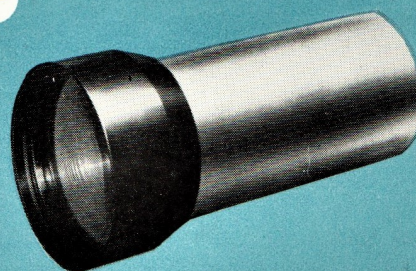
Gaumont-Kalee

Series 'S' High Definition Lenses

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 Series 'S' Lenses are designed to give high definition, undistorted projection of the picture and maximum screen brightness. The lens illustrated (Fig. D) is supplied with an eccentric pre-focussing adaptor to obtain accurate re-alignment of optical centre for magnetically recorded Cinemascope films.

Fig. D



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 14.3	45.6 17.9	54.7 21.5	63.8 25.0	72.9 28.6	82.0 32.2	91.2 35.8												
2.25	32.4 12.7	40.5 15.9	48.6 19.1	56.7 22.2	64.8 25.4	72.9 28.6	81.0 31.8												
2.50	29.3 11.4	36.5 14.3	43.7 17.2	51.0 20.0	58.3 22.9	65.6 25.7	72.9 28.6	80.2 31.5											
2.75	26.5 10.4	33.1 13.0	39.8 15.6	46.4 18.2	53.0 20.8	59.6 23.4	66.3 26.0	72.9 28.6	79.6 31.2										
3.00	24.3 9.5	30.4 11.9	36.5 14.3	42.5 16.7	48.6 19.1	54.7 21.5	60.1 23.8	66.9 26.2	72.9 28.6	79.0 31.0									
3.25	22.4 8.8	28.1 11.0	33.7 13.2	39.3 15.4	44.9 17.6	50.5 19.8	56.1 22.0	61.7 24.2	67.3 26.4	72.9 28.6	78.5 30.8								
3.50	20.8 8.2	26.0 10.2	31.3 12.3	36.5 14.3	41.7 16.4	46.9 18.4	52.1 20.4	57.3 22.5	62.5 24.5	67.7 26.6	72.9 28.6	78.1 30.6							
3.75	19.4 7.6	24.3 9.5	29.2 11.4	34.0 13.4	38.9 15.3	43.7 17.2	48.6 19.1	53.5 21.0	58.4 22.9	63.2 24.8	68.1 26.7	72.9 28.6	77.8 30.5						
4.00		22.8 8.9	27.3 10.7	31.9 12.5	36.5 14.3	41.0 16.1	45.6 17.9	50.1 19.7	54.7 21.5	59.3 23.2	63.8 25.0	68.4 26.8	72.9 28.6	77.5 30.4					
4.25		21.4 8.4	25.7 10.1	30.0 11.8	34.3 13.5	38.6 15.2	42.9 16.8	47.2 18.5	51.5 20.2	55.8 21.9	60.0 23.6	64.4 25.2	68.6 26.9	72.9 28.6	77.2 30.3				
4.50		20.3 7.9	24.3 9.5	28.4 11.1	32.4 12.7	36.5 14.3	40.5 15.9	44.5 17.5	48.6 19.1	52.6 20.7	56.7 22.2	60.7 23.8	64.8 25.4	68.8 27.0	72.9 28.6	77.0 30.2			
4.75		19.2 7.5	23.0 9.0	26.9 10.5	30.7 12.0	34.5 13.6	38.4 15.1	42.2 16.6	46.1 18.1	49.9 19.6	53.7 21.1	57.6 22.6	61.4 24.1	65.3 25.6	69.1 27.1	72.9 28.6	76.8 30.1		
5.00			21.9 8.6	25.5 10.0	29.2 11.4	32.8 12.9	36.5 14.3	40.1 15.7	43.8 17.2	47.4 18.6	51.0 20.0	54.7 21.5	58.3 22.9	62.0 24.3	65.6 25.7	69.2 27.2	72.9 28.6		
5.25			20.8 8.2	24.3 9.5	27.8 10.9	31.2 12.3	34.7 13.6	38.2 15.0	41.7 16.3	45.2 17.7	48.6 19.1	52.1 20.4	55.6 21.8	59.0 23.2	62.5 24.5	66.0 25.9	69.4 27.2		
5.50			19.9 7.8	23.2 9.1	26.5 10.4	29.8 11.7	33.1 13.0	36.5 14.3	39.8 15.6	43.1 16.9	46.4 18.2	49.7 19.5	53.0 20.8	56.3 22.1	59.6 23.4	63.0 24.7	66.3 26.0		
5.75				22.2 8.7	25.4 10.0	28.5 11.2	31.7 12.4	34.9 13.7	38.0 14.9	41.2 16.2	44.4 17.4	47.6 18.7	50.7 19.9	53.9 21.1	57.1 22.4	60.2 23.6	63.4 24.9		
6.00				21.3 8.3	24.3 9.5	27.3 10.7	30.4 11.9	33.4 13.1	36.5 14.3	39.5 15.5	42.6 16.7	45.6 17.9	48.6 19.1	51.7 20.3	54.7 21.5	57.7 22.6	60.8 23.8		
6.25				20.4 8.0	23.4 9.2	26.1 10.3	29.2 11.4	32.1 12.6	35.0 13.7	37.9 14.9	40.9 16.0	43.8 17.2	46.7 18.3	49.6 19.5	52.5 20.6	55.4 21.7	58.4 22.9		
6.50					22.4 8.8	25.2 9.9	28.1 11.0	30.9 12.1	33.7 13.2	36.5 14.3	39.3 15.4	42.1 16.5	44.9 17.6	47.7 18.7	50.5 19.8	53.3 20.9	56.1 22.0		
6.75					21.6 8.5	24.3 9.5	27.0 10.6	29.7 11.7	32.4 12.7	35.1 13.8	37.8 14.8	40.5 15.9	43.2 17.0	45.9 18.0	48.6 19.1	51.3 20.1	54.0 21.2		
7.00					20.8 8.2	23.4 9.2	26.0 10.2	28.7 11.2	31.3 12.3	33.9 13.3	36.5 14.3	39.1 15.3	41.7 16.4	44.3 17.4	46.9 18.4	49.5 19.4	52.1 20.4		
7.25					20.1 7.9	22.7 8.9	25.2 9.9	27.7 10.9	30.2 11.8	32.7 12.8	35.2 13.8	37.8 14.8	40.2 15.8	42.8 16.8	45.3 17.8	47.8 18.7	50.4 19.7		
7.50							24.3 9.5	26.8 10.5	29.2 11.4	31.6 12.4	34.0 13.4	36.5 14.3	38.9 15.3	41.3 16.2	43.7 17.2	46.2 18.1	48.6 19.1		
7.75							23.5 9.2	25.9 10.1	28.3 11.1	30.6 12.0	33.0 12.9	35.3 13.8	37.7 14.8	40.0 15.7	42.4 16.6	44.8 17.6	47.1 18.5		
8.00							22.8 8.9	25.1 9.8	27.3 10.7	29.6 11.6	31.9 12.5	34.2 13.4	36.5 14.3	38.7 15.2	41.0 16.1	43.3 17.0	45.6 17.9		
8.25							24.3 9.5	26.5 10.4	28.8 11.3	31.0 12.2	33.2 13.0	35.4 13.9	37.6 14.7	39.8 15.6	42.0 16.5	44.2 17.3			
8.50							23.6 9.3	25.7 10.1	27.9 10.9	30.0 11.8	32.2 12.6	34.3 13.5	36.5 14.3	38.6 15.2	40.7 16.0	42.9 16.8			
8.75							22.9 9.0	25.0 9.8	27.1 10.6	29.2 11.4	31.3 12.3	33.4 13.1	35.4 13.9	37.5 14.7	39.6 15.5	41.7 16.3			
9.00							24.3 9.5	26.3 10.3	28.4 11.1	30.4 11.9	32.4 12.7	34.4 13.5	36.5 14.3	38.5 15.1	40.5 15.9				
9.25							23.7 9.3	25.6 10.0	27.6 10.8	29.6 11.6	31.6 12.4	33.5 13.1	35.5 13.9	37.5 14.7	39.4 15.5				
9.50							23.0 9.0	25.0 9.8	26.9 10.5	28.8 11.3	30.7 12.0	32.6 12.8	34.6 13.6	36.5 14.3	38.4 15.0				
9.75							24.3 9.5	26.2 10.3	28.1 11.0	29.9 11.7	31.8 12.5	33.7 13.2	35.6 14.0	37.5 14.7	39.4 15.4				
10.00								23.7 9.3	25.5 10.0	27.4 10.7	29.2 11.4	31.0 12.2	32.8 12.9	34.7 13.6	36.5 14.3				

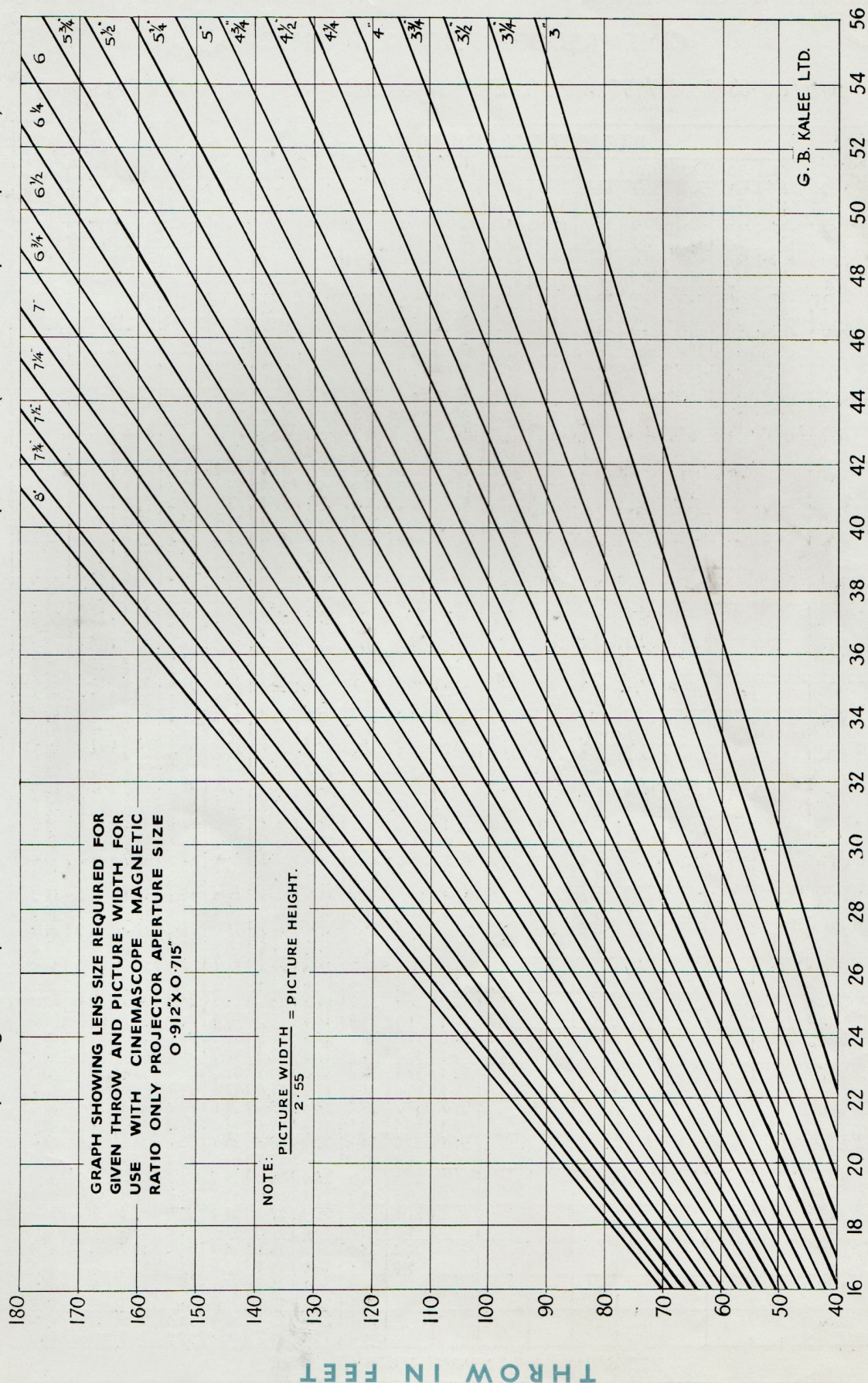
SIZES GIVEN ARE TO NEAREST TENTH OF A FOOT

Everything for the



Cinema and Theatre

Dimensions of width of Screen Picture at different distances, with Lenses of different focal lengths
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 Screen Picture at different distances with Lenses of different focal lengths

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 14.3	42.0 17.9	50.2 21.5	58.7 25.0	67.0 28.6	75.5 32.2	84.0 35.8	92.3 39.4											
2.25	29.8 12.7	37.2 15.9	44.7 19.1	52.2 22.2	59.7 25.4	67.0 28.6	74.5 31.8	82.0 35.0	89.5 38.2										
2.50	26.8 11.4	33.5 14.3	40.2 17.2	47.0 20.0	53.7 22.9	60.4 25.7	67.0 28.6	73.8 31.5	80.5 34.3	87.2 37.2									
2.75	24.4 10.4	30.4 13.0	36.5 15.6	42.6 18.2	48.7 20.8	54.9 23.4	61.0 26.0	67.0 28.6	73.2 31.2	79.2 33.9	85.4 36.5								
3.00	22.3 9.5	28.0 11.9	33.5 14.3	39.2 16.7	44.6 19.1	50.2 21.5	55.8 23.8	61.4 26.2	67.0 28.6	72.6 31.0	78.2 33.4	83.9 35.7							
3.25	20.6 8.8	25.8 11.0	30.9 13.2	36.1 15.4	41.2 17.6	46.4 19.8	51.5 22.0	56.8 24.2	61.7 26.4	67.0 28.6	72.3 30.8	77.4 33.1	82.5 35.1						
3.50	19.2 8.2	24.0 10.2	28.8 12.3	33.5 14.3	38.4 16.4	43.2 18.4	48.0 20.4	52.8 22.5	57.6 24.5	62.4 26.6	67.0 28.6	72.0 30.6	76.6 33.1	81.4 34.7					
3.75	17.8 7.6	22.4 9.5	26.9 11.4	31.3 13.4	35.8 15.3	40.3 17.2	44.7 19.1	49.2 21.0	53.6 22.9	58.2 24.8	62.6 26.7	67.0 28.6	71.6 30.5	76.0 32.5	80.5 34.4				
4.00		20.9 8.9	25.2 10.7	29.4 12.5	33.5 14.3	37.8 16.1	42.0 17.9	46.1 19.7	50.3 21.5	54.5 23.2	58.7 25.0	62.8 26.8	67.0 28.6	71.2 30.4	75.4 32.1	79.6 33.9			
4.25		19.7 8.4	23.7 10.1	27.6 11.8	31.6 13.5	35.5 15.2	39.4 16.8	43.4 18.5	47.3 20.2	51.2 21.9	55.2 23.6	59.1 25.2	63.2 26.9	67.0 28.6	71.0 30.3	74.9 32.1	78.9 33.7		
4.50		18.6 7.9	22.4 9.5	26.1 11.1	29.8 12.7	33.5 14.3	37.3 15.9	41.0 17.5	44.6 19.1	48.5 20.7	52.1 22.2	55.9 23.8	59.6 25.4	63.4 27.0	67.0 28.6	70.9 30.2	74.6 31.8		
4.75			21.2 9.0	24.7 10.5	28.2 12.0	31.8 13.6	35.3 15.1	38.9 16.6	42.4 18.1	45.8 19.6	49.4 21.1	53.0 22.6	56.5 24.1	60.0 25.6	63.6 27.1	67.0 28.6	70.6 30.1		
5.00			20.1 8.6	23.5 10.0	26.8 11.4	30.2 12.9	33.5 14.3	36.8 15.7	40.2 17.2	43.6 18.6	46.9 20.0	50.3 21.5	53.6 22.9	57.0 24.3	60.4 25.7	63.8 27.2	67.0 28.6		
5.25			19.2 8.2	22.4 9.5	25.6 10.9	28.8 12.3	32.0 13.6	35.1 15.0	38.3 16.3	41.5 17.7	44.7 19.1	48.0 20.4	51.0 21.8	54.4 23.2	57.5 24.5	60.6 25.9	63.9 27.2		
5.50				21.3 9.1	24.4 10.4	27.4 11.7	30.5 13.0	33.5 14.3	36.6 15.6	39.6 16.9	42.7 18.2	45.7 19.5	48.8 20.8	51.8 22.1	54.9 23.4	58.0 24.7	61.0 26.0		
5.75				20.4 8.7	23.3 10.0	26.2 11.2	29.2 12.4	32.1 13.7	35.0 14.9	37.8 16.2	40.9 17.4	43.7 18.7	46.6 19.9	49.6 21.1	52.5 22.4	55.5 23.6	58.3 24.9		
6.00				19.5 8.3	22.4 9.5	25.2 10.7	28.0 11.9	30.7 13.1	33.5 14.3	36.3 15.5	39.1 16.7	42.0 17.9	44.7 19.1	47.5 20.3	50.3 21.5	53.0 22.6	55.8 23.8		
6.25				18.8 8.0	21.4 9.2	24.1 10.3	26.8 11.4	29.4 12.6	32.1 13.7	34.8 14.9	37.5 16.0	40.2 17.2	43.0 18.3	45.6 19.5	48.2 20.6	51.0 21.7	53.6 22.9		
6.50					20.6 8.8	23.2 9.9	25.8 11.0	28.4 12.1	31.0 13.2	33.5 14.3	36.1 15.4	38.7 16.5	41.3 17.6	43.9 18.7	46.5 19.8	49.0 20.9	51.6 22.0		
6.75					19.8 8.5	22.4 9.5	24.8 10.6	27.3 11.7	29.8 12.7	32.2 13.8	34.8 14.8	37.2 15.9	39.8 17.0	42.3 18.0	44.7 19.1	47.1 20.1	49.6 21.2		
7.00					19.2 8.2	21.6 9.2	24.0 10.2	26.4 11.2	28.7 12.3	31.1 13.3	33.5 14.3	35.9 15.3	38.4 16.4	40.7 17.4	43.1 18.4	45.5 19.4	48.0 20.4		
7.25					18.5 7.9	20.8 8.9	23.2 9.9	25.4 10.9	27.8 11.8	30.1 12.8	32.4 13.8	34.7 14.8	37.0 15.8	39.2 16.8	41.6 17.8	43.8 18.7	46.1 19.7		
7.50							22.4 9.5	24.6 10.5	26.6 11.4	29.0 12.4	31.3 13.4	33.5 14.3	35.7 15.3	38.0 16.2	40.3 17.2	42.5 18.1	44.6 19.1		
7.75							21.6 9.2	23.8 10.1	25.9 11.1	28.1 12.0	30.3 12.9	32.5 13.8	34.5 14.8	36.8 15.7	38.9 16.6	41.0 17.6	43.2 18.5		
8.00							21.0 8.9	23.0 9.8	25.2 10.7	27.2 11.6	29.4 12.5	31.5 13.4	33.5 14.3	35.6 15.2	37.7 16.1	39.8 17.0	42.0 17.9		
8.25							22.4 9.5	24.4 10.4	26.4 11.3	28.5 12.2	30.5 13.0	32.6 13.9	34.6 14.7	36.6 15.6	38.6 16.5	40.8 17.3			
8.50							21.7 9.3	23.7 10.1	25.7 10.9	27.6 11.8	29.6 12.6	31.6 13.5	33.6 14.3	35.5 15.2	37.5 16.0	39.5 16.8			
8.75							21.1 9.0	23.0 9.8	24.9 10.6	26.8 11.4	28.8 12.3	30.7 13.1	32.6 13.9	34.5 14.7	36.5 15.5	38.4 16.3			
9.00							22.4 9.5	24.2 10.3	26.1 11.1	28.0 11.9	29.9 12.7	31.7 13.5	33.5 14.3	35.3 15.1	37.1 15.9				
9.25							21.8 9.3	23.6 10.0	25.4 10.8	27.3 11.6	29.1 12.4	30.9 13.1	32.6 13.9	34.4 14.7	36.2 15.5				
9.50							21.2 9.0	23.0 9.8	24.7 10.5	26.5 11.3	28.2 12.0	29.9 12.8	31.7 13.6	33.5 14.3	35.2 15.0				
9.75							22.4 9.5	24.1 10.3	25.8 11.0	27.5 11.7	29.3 12.5	31.0 13.2	32.6 14.0	34.4 14.7					
10.00							21.9 9.3	23.5 10.0	25.2 10.7	26.9 11.4	28.5 12.2	30.2 12.9	31.9 13.6	33.5 14.3					

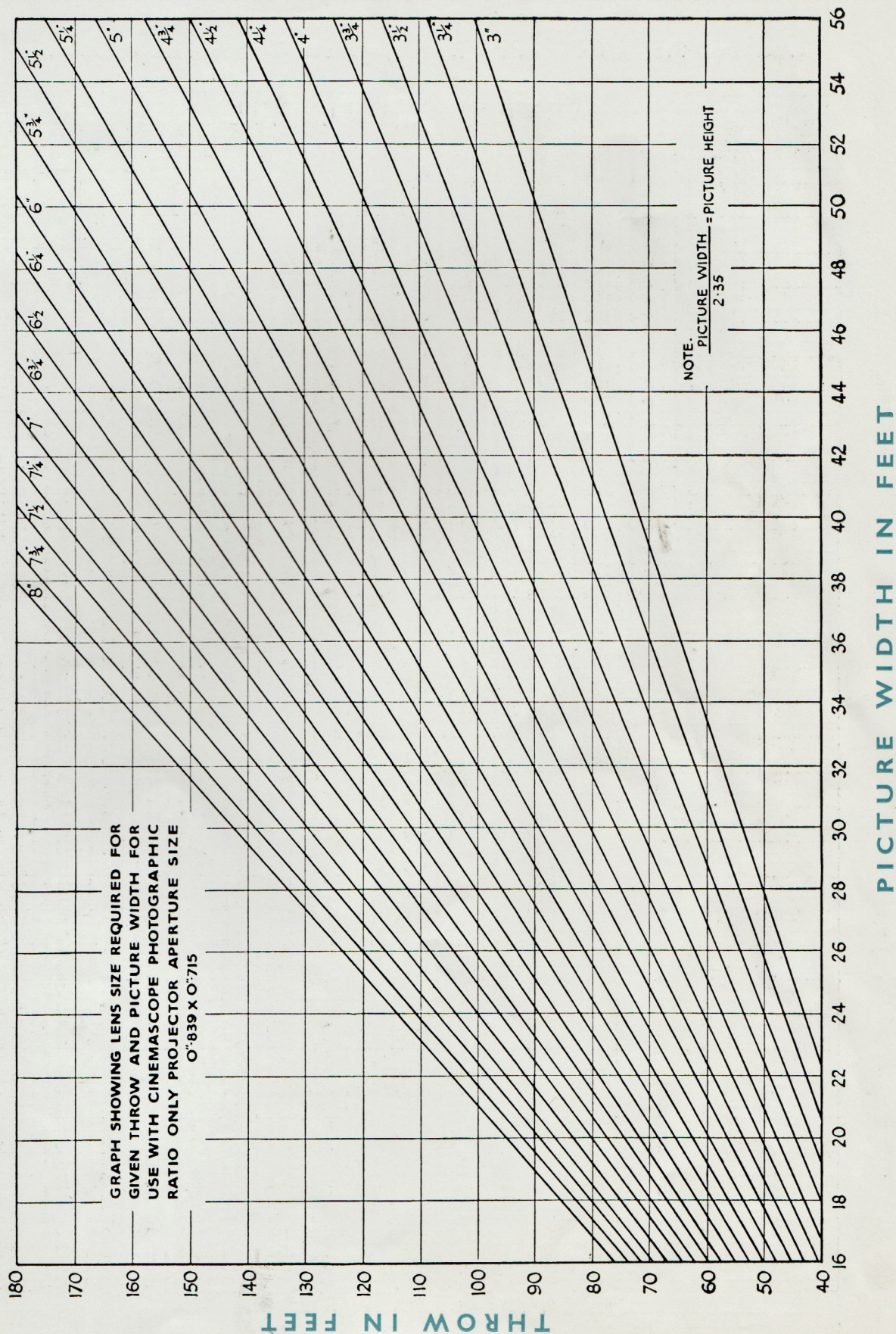
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Cinema and Theatre

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" × 0.715" with a 2 : 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	28-6 14-3	35-8 17-9	43-0 21-5	50-0 25-0	57-2 28-6	64-4 32-2	71-6 35-8	78-8 39-4										
2-25	25-4 12-7	31-8 15-9	38-2 19-1	44-4 22-2	50-8 25-4	57-2 28-6	63-6 31-8	70-0 35-0	76-4 38-2									
2-50	22-8 11-4	28-6 14-3	34-4 17-2	40-0 20-0	45-8 22-9	51-4 25-7	57-2 28-6	63-0 31-5	68-6 34-3	74-4 37-2								
2-75	20-8 10-4	26-0 13-0	31-2 15-6	36-4 18-2	41-6 20-8	46-8 23-4	52-0 26-0	57-2 28-6	62-4 31-2	67-8 33-9	73-0 36-5							
3-00	19-0 9-5	23-8 11-9	28-6 14-3	33-4 16-7	38-2 19-1	43-0 21-5	47-6 23-8	52-4 26-2	57-2 28-6	62-0 31-0	66-8 33-4	71-4 35-7						
3-25	17-6 8-8	22-0 11-0	26-4 13-2	30-8 15-4	35-2 17-6	39-6 19-8	44-0 22-0	48-4 24-2	52-8 26-4	57-2 28-6	61-6 30-8	66-2 33-1	70-2 35-1					
3-50	16-4 8-2	20-4 10-2	24-6 12-3	28-6 14-3	32-8 16-4	36-8 18-4	40-8 20-4	45-0 22-5	49-0 24-5	53-2 26-6	57-2 28-6	61-2 30-6	65-4 32-7	69-4 34-7				
3-75	15-2 7-6	19-0 9-5	22-8 11-4	26-8 13-4	30-6 15-3	34-4 17-2	38-2 19-1	42-0 21-0	45-8 22-9	49-6 24-8	53-4 26-7	57-2 28-6	61-0 30-5	65-0 32-5	68-8 34-4			
4-00		17-8 8-9	21-4 10-7	25-0 12-5	28-6 14-3	32-2 16-1	35-8 17-9	39-4 19-7	43-0 21-5	46-4 23-2	50-0 25-0	53-6 26-8	57-2 28-6	60-8 30-4	64-2 32-1	67-8 33-9		
4-25		16-8 8-4	20-2 10-1	23-6 11-8	27-0 13-5	30-4 15-2	33-6 16-8	37-0 18-5	40-4 20-2	43-8 21-9	47-2 23-6	50-4 25-2	53-8 26-9	57-2 28-6	60-6 30-3	64-2 32-1	67-4 33-7	
4-50		15-8 7-9	19-0 9-5	22-2 11-1	25-4 12-7	28-6 14-3	31-8 15-9	35-0 17-5	38-2 19-1	41-4 20-7	44-4 22-2	47-6 23-8	50-8 25-4	54-0 27-0	57-2 28-6	60-4 30-2	63-6 31-8	
4-75		15-0 7-5	18-0 9-0	21-0 10-5	24-0 12-0	27-2 13-6	30-2 15-1	33-2 16-6	36-2 18-1	39-2 19-6	42-2 21-1	45-2 22-6	48-2 24-1	51-2 25-6	54-2 27-1	57-2 28-6	60-2 30-1	
5-00			17-2 8-6	20-0 10-0	22-8 11-4	25-8 12-9	28-6 14-3	31-4 15-7	34-4 17-2	37-2 18-6	40-0 20-0	43-0 21-5	45-8 22-9	48-6 24-3	51-4 25-7	54-4 27-2	57-2 28-6	
5-25			16-4 8-2	19-0 9-5	21-8 10-9	24-6 12-3	27-2 13-6	30-0 15-0	32-6 16-3	35-4 17-7	38-2 19-1	40-8 20-4	43-6 21-8	46-4 23-2	49-0 24-5	51-8 25-9	54-4 27-2	
5-50			15-6 7-8	18-2 9-1	20-8 10-4	23-4 11-7	26-0 13-0	28-6 14-3	31-2 15-6	33-8 16-9	36-4 18-2	39-0 19-5	41-6 20-8	44-2 22-1	46-8 23-4	49-4 24-7	52-0 26-0	
5-75				17-4 8-7	20-0 10-0	22-4 11-2	24-8 12-4	27-4 13-7	29-8 14-9	32-4 16-2	34-8 17-4	37-4 18-7	39-8 19-9	42-2 21-1	44-8 22-4	47-2 23-6	49-8 24-9	
6-00				16-6 8-3	19-0 9-5	21-4 10-7	23-8 11-9	26-2 13-1	28-6 14-3	31-0 15-5	33-4 16-7	35-8 17-9	38-2 19-1	40-6 20-3	43-0 21-5	45-2 22-6	47-6 23-8	
6-25				16-0 8-0	18-4 9-2	20-6 10-3	22-8 11-4	25-2 12-6	27-4 13-7	29-8 14-9	32-0 16-0	34-4 17-2	36-6 18-3	39-0 19-5	41-2 20-6	43-4 21-7	45-8 22-9	
6-50					17-6 8-8	19-8 9-9	22-0 11-0	24-2 12-1	26-4 13-2	28-6 14-3	30-8 15-4	33-0 16-5	35-2 17-6	37-4 18-7	39-6 19-8	41-8 20-9	44-0 22-0	
6-75					17-0 8-5	19-0 9-5	21-2 10-6	23-4 11-7	25-4 12-7	27-6 13-8	29-6 14-8	31-8 15-9	34-0 17-0	36-0 18-0	38-2 19-1	40-2 20-1	42-4 21-2	
7-00					16-4 8-2	18-4 9-2	20-4 10-2	22-4 11-2	24-6 12-3	26-6 13-3	28-6 14-3	30-6 15-3	32-8 16-4	34-8 17-4	36-8 18-4	38-8 19-4	40-8 20-4	
7-25					15-8 7-9	17-8 8-9	19-8 9-9	21-8 10-9	23-6 11-8	25-6 12-8	27-6 13-8	29-6 14-8	31-6 15-8	33-6 16-8	35-6 17-8	37-4 18-7	39-4 19-7	
7-50							19-0 9-5	21-0 10-5	22-8 11-4	24-8 12-4	26-8 13-4	28-6 14-3	30-6 15-3	32-4 16-2	34-4 17-2	36-2 18-1	38-2 19-1	
7-75							18-4 9-2	20-2 10-1	22-2 11-1	24-0 12-0	25-8 12-9	27-6 13-8	29-6 14-8	31-4 15-7	33-2 16-6	35-2 17-6	37-0 18-5	
8-00							17-8 8-9	19-6 9-8	21-4 10-7	23-2 11-6	25-0 12-5	26-8 13-4	28-6 14-3	30-4 15-2	32-2 16-1	34-0 17-0	35-8 17-9	
8-25								19-0 9-5	20-8 10-4	22-6 11-3	24-4 12-2	26-0 13-0	27-8 13-9	29-4 14-7	31-2 15-6	33-0 16-5	34-6 17-3	
8-50								18-6 9-3	20-2 10-1	21-8 10-9	23-6 11-8	25-2 12-6	27-0 13-5	28-6 14-3	30-4 15-2	32-0 16-0	33-6 16-8	
8-75								18-0 9-0	19-6 9-8	21-2 10-6	22-8 11-4	24-6 12-3	26-2 13-1	27-8 13-9	29-4 14-7	31-0 15-5	32-6 16-3	
9-00									19-0 9-5	20-6 10-3	22-2 11-1	23-8 11-9	25-4 12-7	27-0 13-5	28-6 14-3	30-2 15-1	31-8 15-9	
9-25									18-6 9-3	20-0 10-0	21-6 10-8	23-2 11-6	24-8 12-4	26-2 13-1	27-8 13-9	29-4 14-7	31-0 15-5	
9-50									18-0 9-0	19-6 9-8	21-0 10-5	22-6 11-3	24-0 12-0	25-6 12-8	27-2 13-6	28-6 14-3	30-0 15-0	
9-75										19-0 9-5	20-6 10-3	22-0 11-0	23-4 11-7	25-0 12-5	26-4 13-2	28-0 14-0	29-4 14-7	
10-00										18-6 9-3	20-0 10-0	21-4 10-7	22-8 11-4	24-2 12-2	25-8 12-9	27-2 13-6	28-6 14-3	
SIZES GIVEN ARE TO NEAREST TENTH OF A FOOT																		

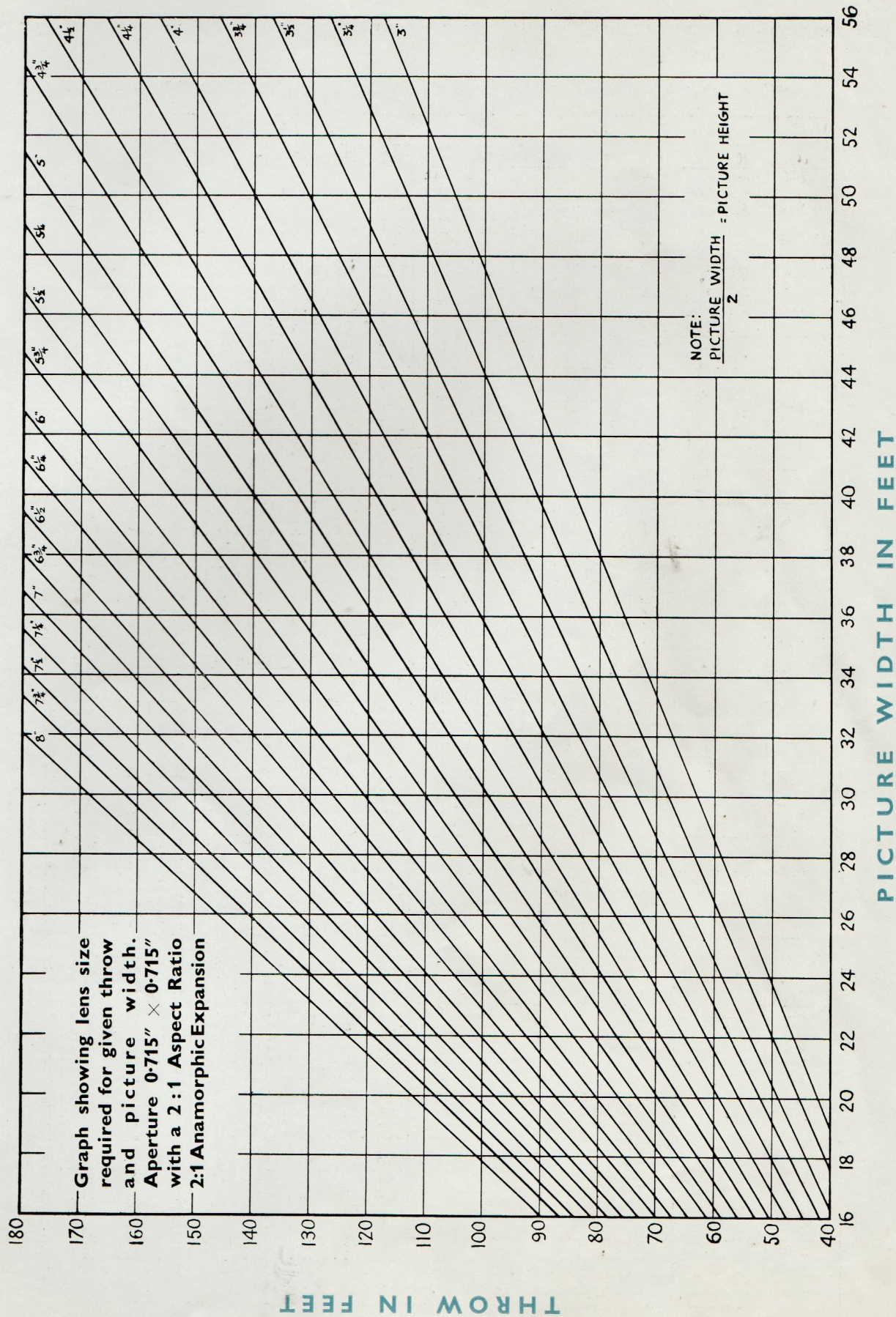
SIZES GIVEN ARE TO NEAREST TENTH OF A FOOT

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 screen picture at different distances with Lenses of different focal lengths

Aperture 0.825" × 0.600" with a 2.06 : 1 Aspect Ratio (1 : 5 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	24.7 11.9	31.0 14.9	37.2 17.9	43.4 20.9	49.5 23.9	55.7 26.9	61.9 29.9	68.1 32.9										
2-25	22.0 10.6	27.6 13.3	33.0 16.0	38.5 18.6	44.0 21.2	49.5 23.9	55.0 26.6	60.5 29.2	66.0 31.9	71.5 34.6								
2-50	19.8 9.6	24.7 11.9	29.7 14.4	34.6 16.8	39.6 19.1	44.6 21.5	49.5 23.9	54.5 26.3	59.4 28.7	64.4 31.1	69.4 33.5							
2-75	18.0 8.7	22.5 10.9	27.0 13.0	31.5 15.2	36.0 17.4	40.5 19.6	45.0 21.8	49.5 23.9	54.0 26.1	58.5 28.3	63.0 30.5	67.5 32.7	72.0 34.9					
3-00	16.5 8.0	20.6 10.0	24.7 11.9	28.9 14.0	33.0 16.0	37.1 17.9	41.2 20.0	45.4 22.0	49.5 23.9	53.5 25.9	57.7 27.9	61.9 29.9	66.0 31.9	70.1 34.0				
3-25		19.0 9.2	22.8 11.0	26.6 12.8	30.5 14.7	34.3 16.6	38.1 18.4	41.9 20.3	45.7 22.1	49.5 23.9	53.3 25.8	57.0 27.6	61.0 29.5	64.8 31.3	68.5 33.3			
3-50		17.6 8.5	21.2 10.3	24.7 11.9	28.2 13.7	31.7 15.4	35.3 17.1	38.8 18.8	42.4 20.5	46.0 22.2	49.5 23.9	53.0 25.5	56.5 27.3	60.0 29.0	63.5 30.8	67.1 32.5	70.7 34.2	
3-75			19.8 9.6	23.1 11.1	26.4 12.8	29.7 14.4	33.0 16.0	36.3 17.6	39.5 19.1	42.9 20.7	46.2 22.3	49.5 23.9	52.7 25.6	56.1 27.2	59.4 28.8	62.6 30.3	66.0 31.9	
4-00			18.6 8.9	21.6 10.4	24.7 11.9	27.8 13.4	30.8 14.9	33.9 16.4	37.1 17.9	40.2 19.4	43.5 20.9	46.4 22.4	49.5 23.9	52.6 25.4	55.5 26.9	58.7 28.4	61.8 29.9	
4-25			17.5 8.5	20.4 9.8	23.3 11.2	26.2 12.7	29.2 14.0	32.1 15.4	34.9 16.8	37.8 18.3	40.7 19.7	43.6 21.1	46.6 22.5	49.5 23.9	52.4 25.3	55.4 26.8	58.2 28.2	
4-50				19.2 9.3	22.0 10.6	24.7 11.9	27.4 13.3	30.2 14.6	33.0 16.0	35.7 17.2	38.5 18.6	41.2 20.0	44.0 21.4	46.7 22.6	49.5 23.9	52.3 25.3	55.0 26.6	
4-75				18.4 8.9	20.8 10.1	23.4 11.4	26.1 12.6	28.7 13.9	31.2 15.1	33.9 16.4	36.4 17.6	39.1 18.9	41.6 20.1	44.3 21.4	46.9 22.6	49.5 23.9	52.1 25.2	
5-00				17.3 8.4	19.8 9.6	22.2 10.8	24.7 11.9	27.2 13.2	29.6 14.4	32.2 15.6	34.6 16.8	37.1 17.9	39.6 19.1	42.1 20.3	44.6 21.5	47.1 22.8	49.5 23.9	
5-25					18.8 9.1	21.2 10.3	23.6 11.4	25.9 12.5	28.3 13.7	30.7 14.8	33.0 15.9	35.4 17.1	37.8 18.3	40.1 19.4	42.5 20.5	44.9 21.7	47.1 22.8	
5-50					18.0 8.7	20.2 9.8	22.5 10.9	24.7 11.9	27.0 13.0	29.2 14.1	31.5 15.2	33.8 16.3	36.0 17.4	38.3 18.5	40.5 19.6	42.7 20.6	45.0 21.8	
5-75					17.2 8.3	19.4 9.3	21.6 10.3	23.7 11.4	25.8 12.4	28.0 13.5	30.1 14.5	32.3 15.6	34.5 16.6	36.6 17.7	38.7 18.8	40.9 19.8	43.1 20.8	
6-00						18.5 8.9	20.6 10.0	22.6 10.9	24.7 11.9	26.8 13.0	28.8 14.0	30.8 14.9	33.0 16.0	35.0 17.0	37.1 17.9	39.1 18.9	41.2 20.0	
6-25						17.8 8.6	19.8 9.5	21.8 10.4	23.8 11.4	25.8 12.4	27.7 13.3	29.6 14.3	31.6 15.3	33.6 16.2	35.6 17.2	37.6 18.1	39.6 19.1	
6-50						17.2 8.3	19.1 9.2	20.9 10.1	22.8 11.0	24.7 11.9	26.6 12.8	28.6 13.7	30.5 14.7	32.3 15.6	34.3 16.6	36.1 17.5	38.1 18.4	
6-75							18.3 8.8	20.2 9.8	22.0 10.6	23.8 11.6	25.6 12.4	27.4 13.3	29.3 14.2	31.2 15.1	33.0 16.0	34.8 16.9	36.6 17.8	
7-00							17.7 8.5	19.4 9.4	21.2 10.3	23.0 11.1	24.7 11.9	26.5 12.8	28.3 13.7	30.1 14.5	31.7 15.4	33.6 16.2	35.4 17.1	
7-25							17.1 8.3	18.8 9.1	20.4 10.0	22.2 10.8	23.8 11.6	25.6 12.4	27.3 13.2	29.0 14.1	30.7 14.9	32.4 15.7	34.1 16.7	
7-50								18.1 8.7	19.8 9.6	21.4 10.3	23.1 11.1	24.7 11.9	26.4 12.8	28.0 13.6	29.7 14.4	31.4 15.2	33.0 16.0	
7-75								17.5 8.5	19.1 9.3	20.7 10.0	22.4 10.8	23.9 11.6	25.5 12.4	27.2 13.2	28.7 13.9	30.3 14.7	31.9 15.5	
8-00									18.6 8.9	20.1 9.7	21.6 10.4	23.2 11.2	24.7 11.9	26.2 12.7	27.8 13.4	29.4 14.2	30.9 14.9	
8-25									18.0 8.7	19.5 9.5	21.0 10.2	22.5 10.9	24.0 11.6	25.5 12.4	27.0 13.1	28.5 13.8	30.0 14.5	
8-50									17.5 8.5	18.9 9.1	20.4 9.8	21.8 10.5	23.2 11.2	24.7 11.9	26.2 12.7	27.6 13.4	29.1 14.0	
8-75										18.4 9.0	19.8 9.6	21.2 10.2	22.6 11.0	24.0 11.6	25.4 12.4	26.8 13.0	28.3 13.7	
9-00										17.9 8.6	19.2 9.3	20.6 10.0	22.0 10.6	23.3 11.3	24.7 11.9	26.1 12.6	27.5 13.3	
9-25										17.4 8.4	18.7 9.1	20.1 9.7	21.4 10.4	22.7 11.0	24.1 11.7	25.4 12.3	26.7 12.9	
9-50											18.2 8.9	19.5 9.5	20.8 10.1	22.2 10.8	23.4 11.3	24.8 12.0	26.1 12.7	
9-75											17.7 8.6	19.0 9.2	20.3 9.8	21.6 10.5	22.8 11.0	24.1 11.7	25.4 12.3	
10-00												17.3 8.4	18.6 9.0	19.8 9.6	21.0 10.2	22.3 10.8	23.5 11.4	
SIZES GIVEN ARE TO NEAREST TENTH OF A FOOT																		

SIZES GIVEN ARE TO NEAREST TENTH OF A FOOT

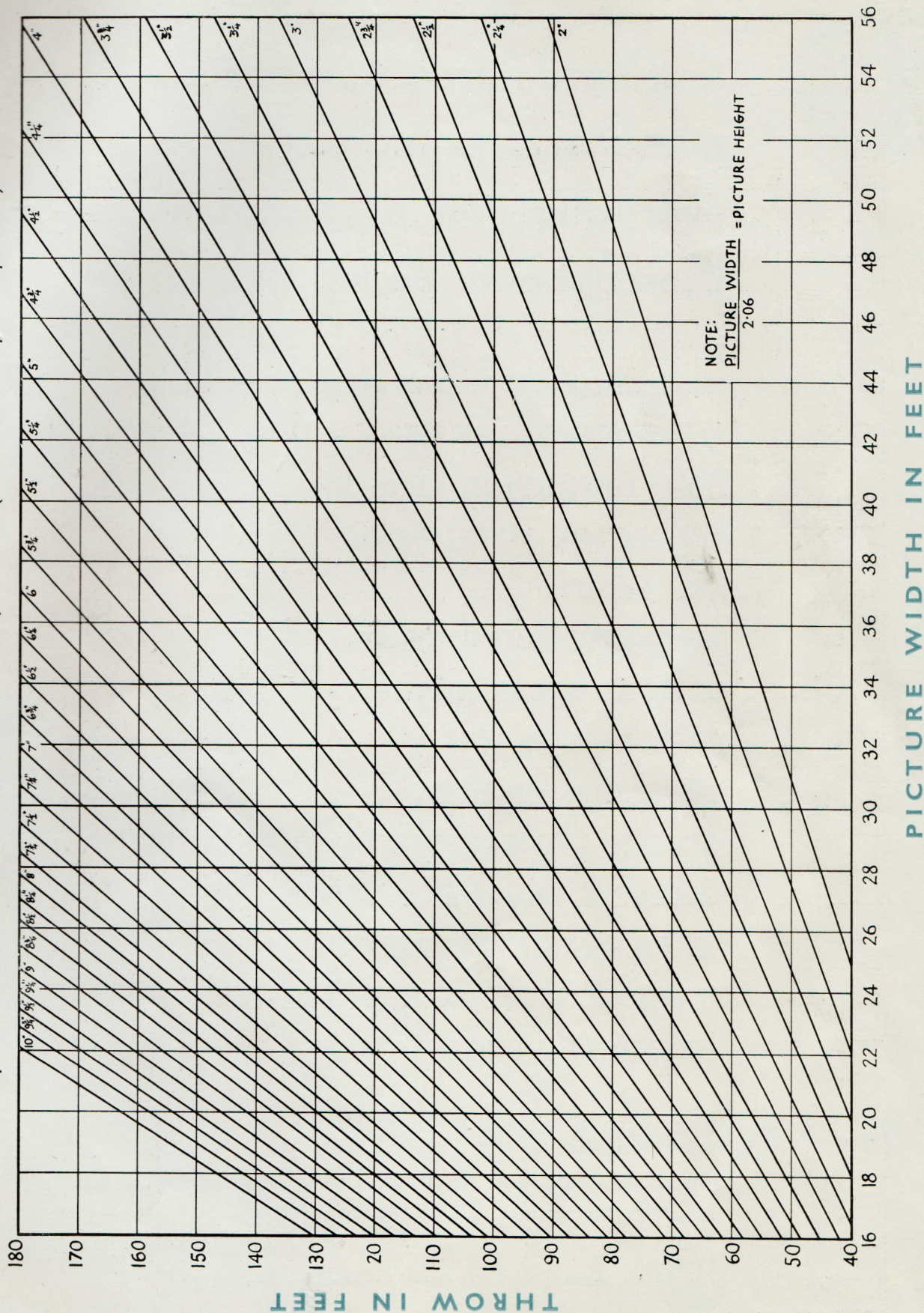
Everything for the



Cinema and Theatre

Dimensions of width of Screen Picture at different distances with Lenses of different focal lengths

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



Everything for the



Cinema and Theatre



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