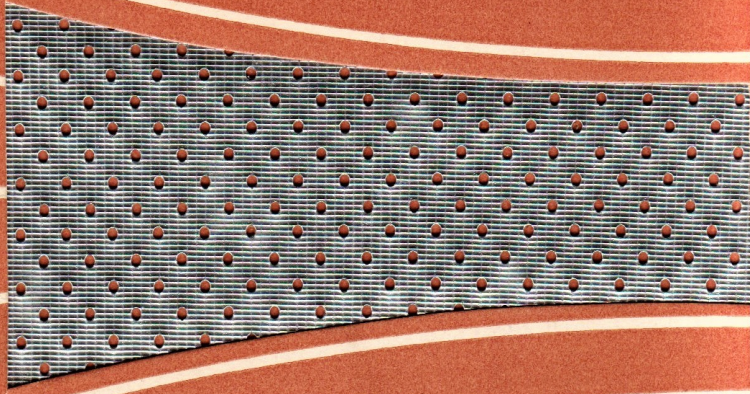


SCREENS

GAUMONT-KALEE



***“Miracle
Mirror”
Screen***

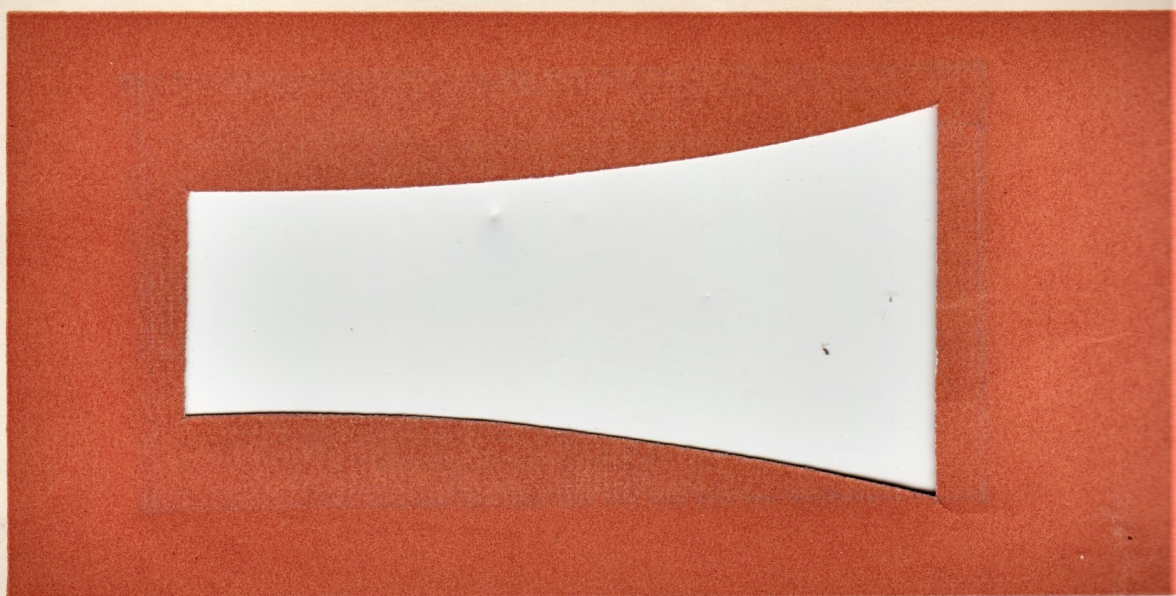
**FOR ALL WIDE SCREEN
AND THREE DIMENSIONAL
PRESENTATION**

For all Wide Screen and Three Dimensional Presentation

Gaumont-Kalee are proud to bring you the "Miracle Mirror" Screen, *the* Screen for all Wide Screen and Three Dimensional Presentation.

Study the sample piece opposite. Notice the bright clean finish and high reflectance of its silver-like surface. See how this surface is composed of many small accurate mirror elements. Each is precisely shaped to the exact form necessary for best utilization of the projected light, thus assuring maintenance of maximum attainable picture brightness throughout the theatre.

Based upon careful analysis of theatre requirements, this controlled reflection gives a 2 : 1 Gain in picture brightness within viewing angles from the centre of 50° horizontally, and 25° vertically.

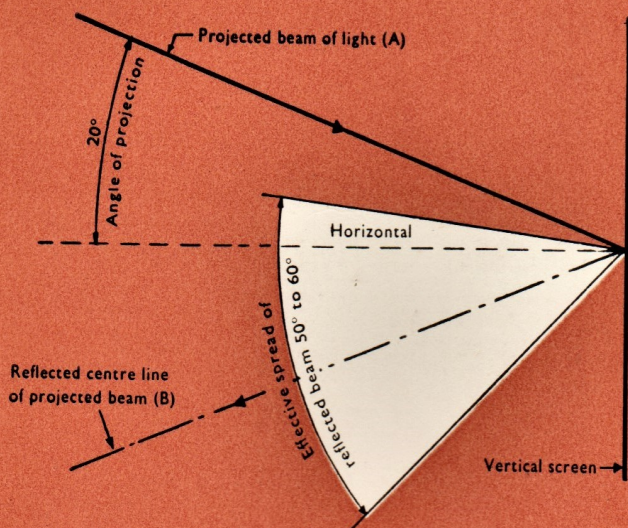
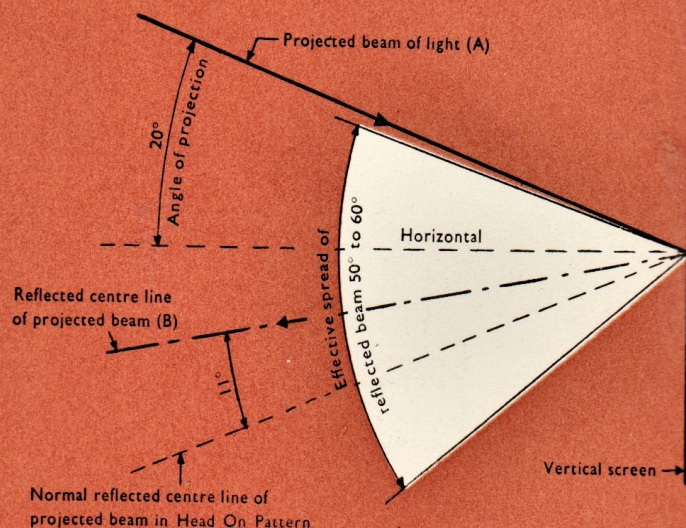


Two patterns are available : the "head-on" for level and modest projection angles: the "tilted" which has an in-built tilt of 11° for steep projection angles. Choice of pattern depends on the specific theatre conditions.

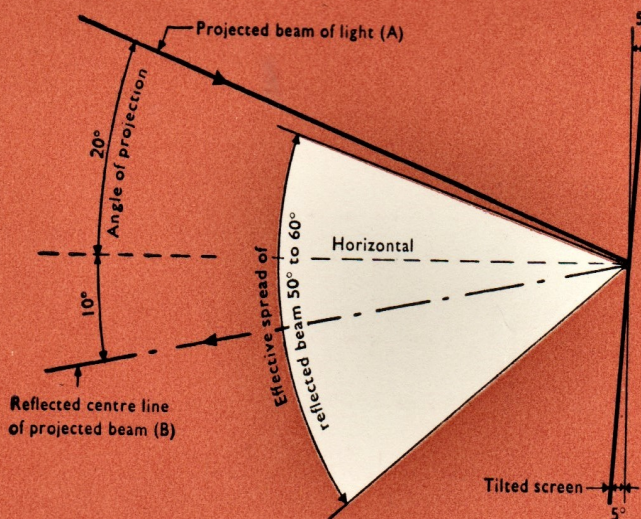
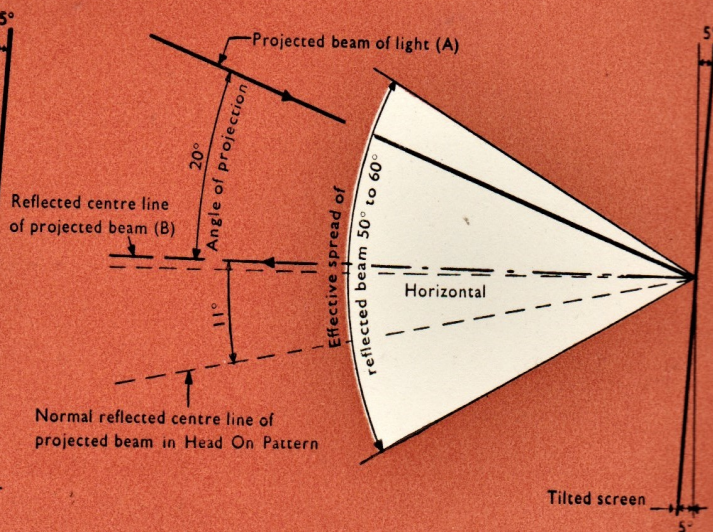
Figure A, drawn for a 20° projection angle, shows diagrammatically how each type distributes the light falling upon it, while Figure B shows how the vertical light distribution may be further controlled by slightly tilting the top of the screen away from the projector.

In order to secure the maximum picture brightness throughout the theatre, the screen should be curved to a radius equal to the projector distance. Table 1 gives the picture sizes (2.55 : 1 ratio) corresponding to various distances and projection lenses, while Table 2 gives screen widths (arc of picture) and rises of arc (depth of curve) when picture width and projection throw are known. Screen sizes are given in overall dimensions inclusive of webbing.



Fig A**HEAD ON PATTERN****TILTED PATTERN**

Action of a beam of light projected at 20° upon "Miracle Mirror" screens

Fig B**HEAD ON PATTERN****TILTED PATTERN**

Action of a beam of light projected at 20° upon "Miracle Mirror" screens

Aperture: 0.912" x 0.715" with a 2.55:1 ratio Anamorphic Lens

TABLE I 35 mm. PROJECTION TABLE

FOCAL LENGTH INCHES	PROJECTION DISTANCE — FEET																				180'	190'	200'
	40'	50'	60'	70'	80'	90'	100'	110'	120'	130'	140'	150'	160'	170'	180'	190'	200'	210'	220'	230'			
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	51.0	58.3	65.6	72.9	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	60.1	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	18.0	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	16.8	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	15.6	20.3	24.3	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	14.5	19.2	23.0	26.9	30.7	34.5	38.4	42.2	46.1	49.9	53.7	57.6	61.4	65.3	69.1	72.9	76.8						
5.00	13.4	18.0	21.9	25.5	29.2	32.8	36.5	40.1	43.8	47.4	51.0	54.7	58.3	62.0	65.6	69.2	72.9						
5.25	12.4	17.0	20.8	24.3	27.8	31.2	34.7	38.2	41.7	45.2	48.6	52.1	55.6	59.0	62.5	66.0	69.4						
5.50	11.4	16.0	19.9	23.2	26.5	29.8	33.1	36.5	39.8	43.1	46.4	49.7	53.0	56.3	59.6	63.0	66.3						
5.75	10.4	15.0	18.8	22.2	25.4	28.5	31.7	34.9	38.0	41.2	44.4	47.6	50.7	53.9	57.1	60.2	63.4						
6.00	9.4	14.0	17.8	21.1	24.3	27.3	30.4	33.4	36.5	39.5	42.6	45.6	48.6	51.7	54.7	57.7	60.8						
6.25	8.4	13.0	16.8	20.0	23.1	26.1	29.2	32.1	35.0	37.9	40.9	43.8	46.7	49.6	52.5	55.4	58.4						
6.50	7.4	12.0	15.8	19.0	22.1	25.1	28.1	31.1	34.0	36.9	39.8	42.7	45.6	48.5	51.4	54.3	57.2						
6.75	6.4	11.0	14.8	18.0	21.1	24.1	27.1	30.1	33.0	35.9	38.8	41.7	44.6	47.5	50.4	53.3	56.2						
7.00	5.4	10.0	13.8	17.0	20.1	23.1	26.1	29.1	32.0	34.9	37.8	40.7	43.6	46.5	49.4	52.3	55.2						
7.25	4.4	9.0	12.8	16.0	19.1	22.1	25.1	28.1	31.0	33.9	36.8	39.7	42.6	45.5	48.4	51.3	54.2						
7.50	3.4	8.0	11.8	15.0	18.1	21.1	24.1	27.1	30.0	32.9	35.8	38.7	41.6	44.5	47.4	50.3	53.2						
7.75	2.4	7.0	10.8	14.0	17.1	20.1	23.1	26.1	29.0	31.9	34.8	37.7	40.6	43.5	46.4	49.3	52.2						
8.00	1.4	6.0	9.8	13.0	16.1	19.1	22.1	25.1	28.0	30.9	33.8	36.7	39.6	42.5	45.4	48.3	51.2						
8.25	0.4	5.0	8.8	12.0	15.1	18.1	21.1	24.1	27.0	29.9	32.8	35.7	38.6	41.5	44.4	47.3	50.2						
8.50		4.0	7.8	11.0	14.1	17.1	20.1	23.1	26.0	28.9	31.8	34.7	37.6	40.5	43.4	46.3	49.2						
8.75		3.0	6.8	10.0	13.1	16.1	19.1	22.1	25.0	27.9	30.8	33.7	36.6	39.5	42.4	45.3	48.2						
9.00		2.0	5.8	9.0	12.1	15.1	18.1	21.1	24.0	26.9	29.8	32.7	35.6	38.5	41.4	44.3	47.2						
9.25		1.0	4.8	8.0	11.1	14.1	17.1	20.1	23.0	25.9	28.8	31.7	34.6	37.5	40.4	43.3	46.2						
9.50		0.0	3.8	7.0	10.1	13.1	16.1	19.1	22.0	24.9	27.8	30.7	33.6	36.5	39.4	42.3	45.2						
9.75			2.8	6.0	9.1	12.1	15.1	18.1	21.0	23.9	26.8	29.7	32.6	35.5	38.4	41.3	44.2						
10.00			1.8	5.0	8.1	11.1	14.1	17.1	20.0	22.9	25.8	28.7	31.6	34.5	37.4	40.3	43.2						

SIZES GIVEN ARE TO THE NEAREST TENTH OF A FOOT

TABLE 2

PROJECTION THROW

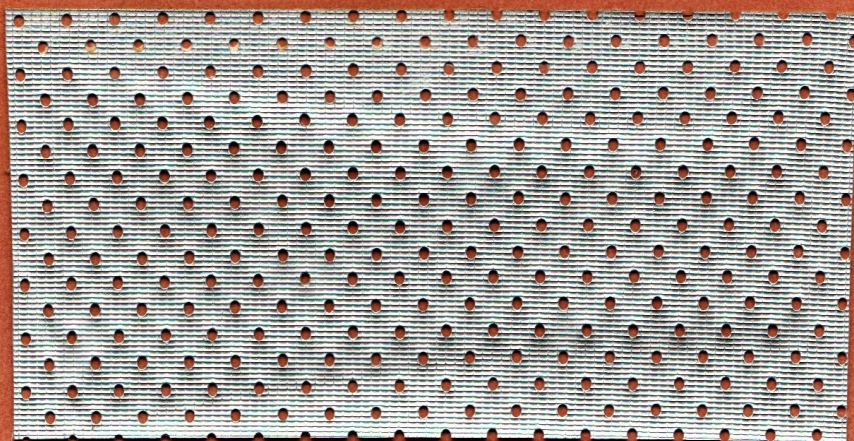
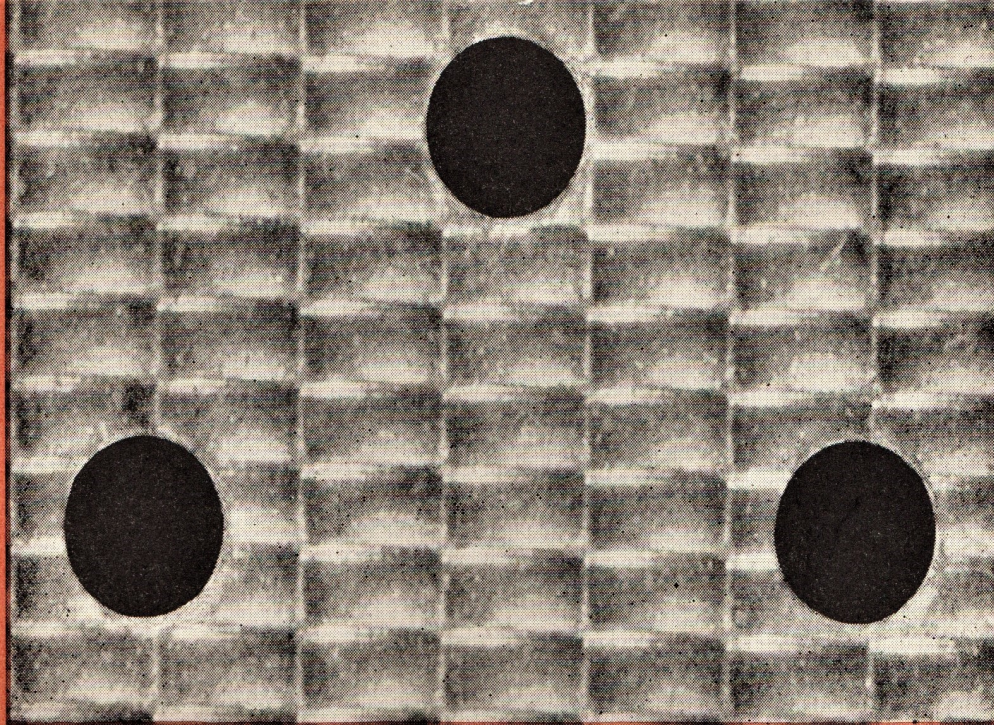
Screen widths (arc of picture) and rises of arc (depth of curve) when picture width and projection throw are known.

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	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	0.7																							
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	0.8	34.1	0.7																					
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	0.9	36.1	0.8	36.1	0.7																	
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	0.8	38.1	0.7															
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	0.9	40.1	0.8	40.1	0.7	40.1	0.6	40.1	0.5							
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	1.0	42.1	0.9	42.1	0.8	42.1	0.7	42.1	0.6							
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	1.1	44.1	1.0	44.1	0.9	44.1	0.8	44.1	0.7							
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	46.1	1.7	46.1	1.6	46.1	1.5	46.1	1.4	46.1	1.3	46.1	1.2	46.1	1.1	46.1	1.0	46.1	0.9							
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	48.1	1.3	48.1	1.2	48.1	1.1	48.1	1.0							
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	50.2	1.6	50.1	1.5	50.1	1.4	50.1	1.3	50.1	1.2							
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	52.1	1.6	52.1	1.5	52.1	1.4	52.1	1.3							
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	54.1	1.7	54.1	1.6	54.1	1.5	54.1	1.4							
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	56.1	1.9	56.1	1.8	56.1	1.7	56.1	1.6							
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	2.7	58.3	2.5	58.3	2.3	58.3	2.2	58.2	2.1	58.2	2.0	58.1	1.9	58.1	1.8	58.1	1.7							
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	2.6	60.3	2.5	60.3	2.4	60.2	2.3	60.2	2.2	60.1	2.1	60.1	2.0	60.1	1.9							
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	2.8	62.4	2.7	62.3	2.6	62.3	2.5	62.2	2.4	62.2	2.3	62.1	2.2	62.1	2.1							
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	2.7	64.2	2.6	64.2	2.5	64.1	2.4	64.1	2.3							
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	2.8	66.2	2.7	66.1	2.6	66.1	2.5	66.0	2.4							
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	68.3	2.8	68.2	2.7	68.1	2.6	68.0	2.5							
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	3.3	70.3	3.2	70.2	3.1	70.1	3.0	70.0	2.9							
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	3.6	72.4	3.5	72.3	3.4	72.2	3.3	72.1	3.2	72.0	3.1							
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	3.6	74.3	3.5	74.2	3.4	74.1	3.3	74.0	3.2							

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

NOTICE: These figures may be used for screen or frame: the inside dimension of the frame being a minimum 12 inches greater than the screen.

The greatly enlarged section of the screen shows more clearly the lenticular pattern which gives the controlled reflectance of all incident light to the useful seating area.



**MANUFACTURED IN
GREAT BRITAIN**

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15/-

PER SQUARE FOOT

CARE and MAINTENANCE

The "Miracle Mirror" Screen is made from light-weight but strong non-stretch material.

Its optical performance depends upon the quality of the finely detailed surface, and care must be taken to avoid marring this by rubbing or pressure. It can be carefully dusted periodically, using a soft-hair screen brush, but under no circumstances should any attempt be made to re-surface it or to clean it with any fluid.





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for Anamorphic and other
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