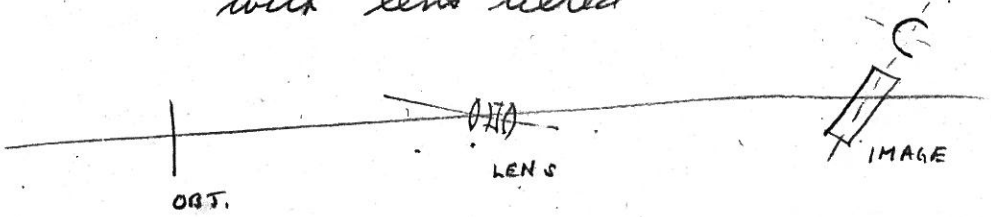
Rectification Printing

Second Stage (Droop gate)

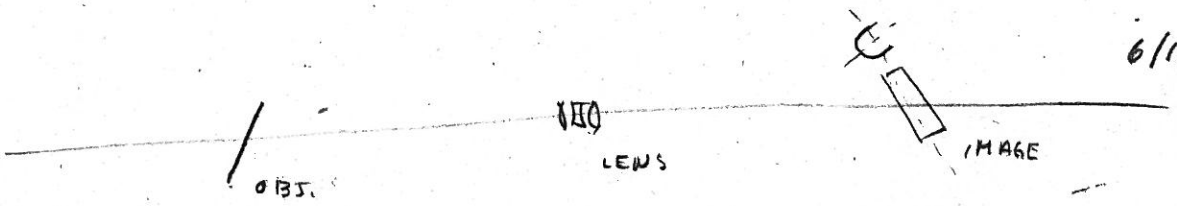
1. Flat object - curved and ~~tilted~~ image with lens tilted

5/29/53



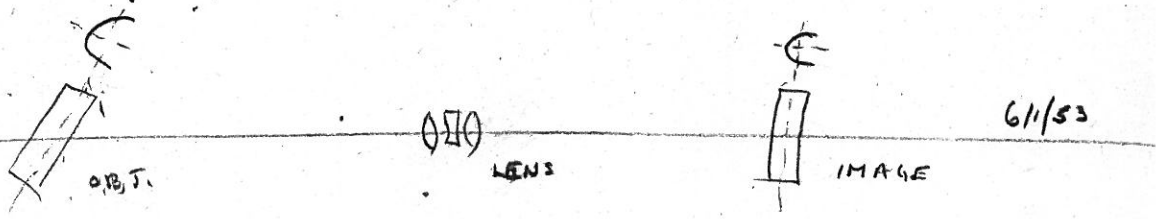
2. Flat object tilted - curved image tilted

6/1/53



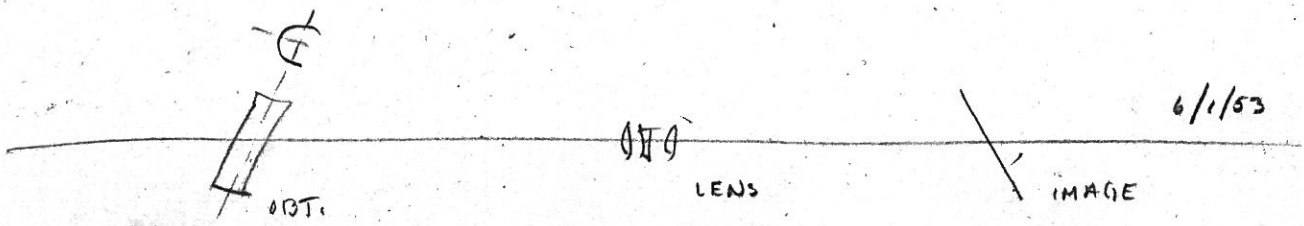
3. Curved object tilted - curved image straight

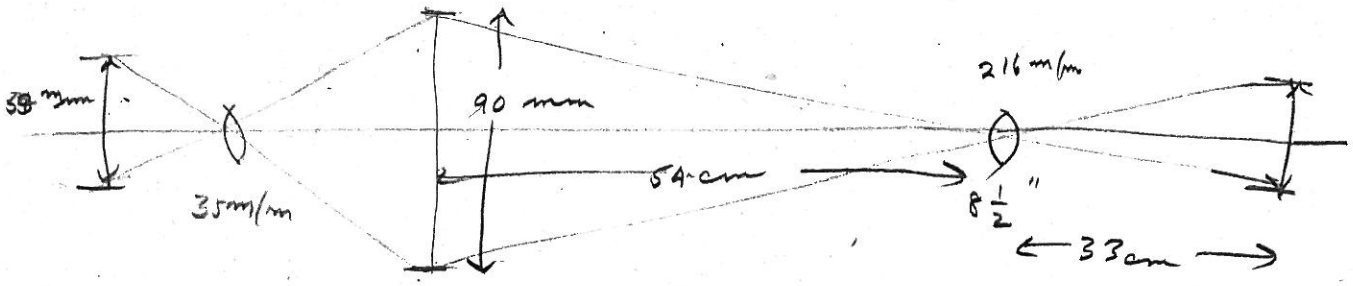
6/1/53



4. Curved object tilted - flat image tilted

6/1/53



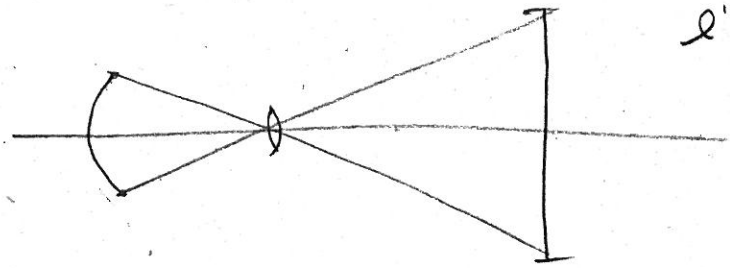


$m_1 = \frac{90}{53} = 1.7\times$ $\quad m = \frac{f}{x} = \frac{x'}{f}$

$x = \frac{f}{m} = \frac{35}{1.7} = 20.6$ mm

$\therefore l = 35 + 20.6 = 55.6$ mm

$l' = 35(1+m) = 35(2.7) = 94.5$ mm



$m = \frac{f}{x} = \frac{1}{1.7}$

.018
.0106
.0286

.00303
.00179
.00482

.00463
.00303
.00160

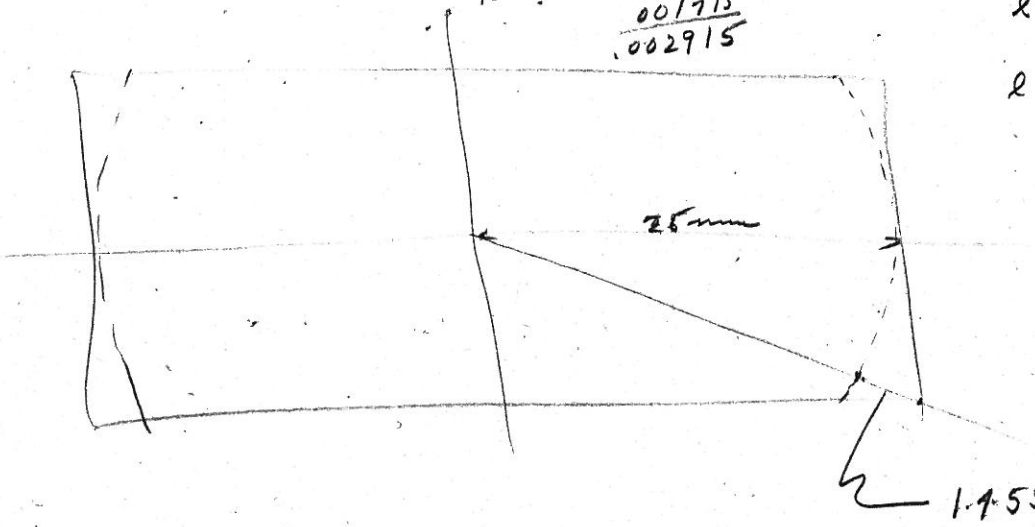
.00463
.001715
.002915

$x = 1.7f = 347$

$\frac{216}{583}$ mm

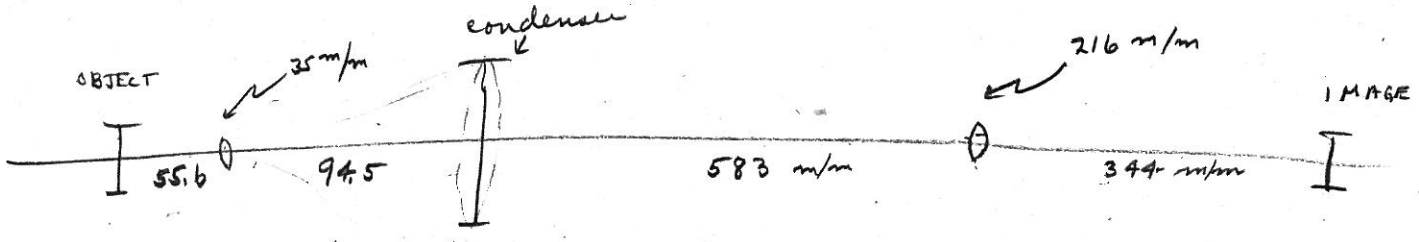
$l = 583$ mm

$l' = 344$ mm



$\frac{1}{f} = \frac{1}{l} + \frac{1}{l'}$

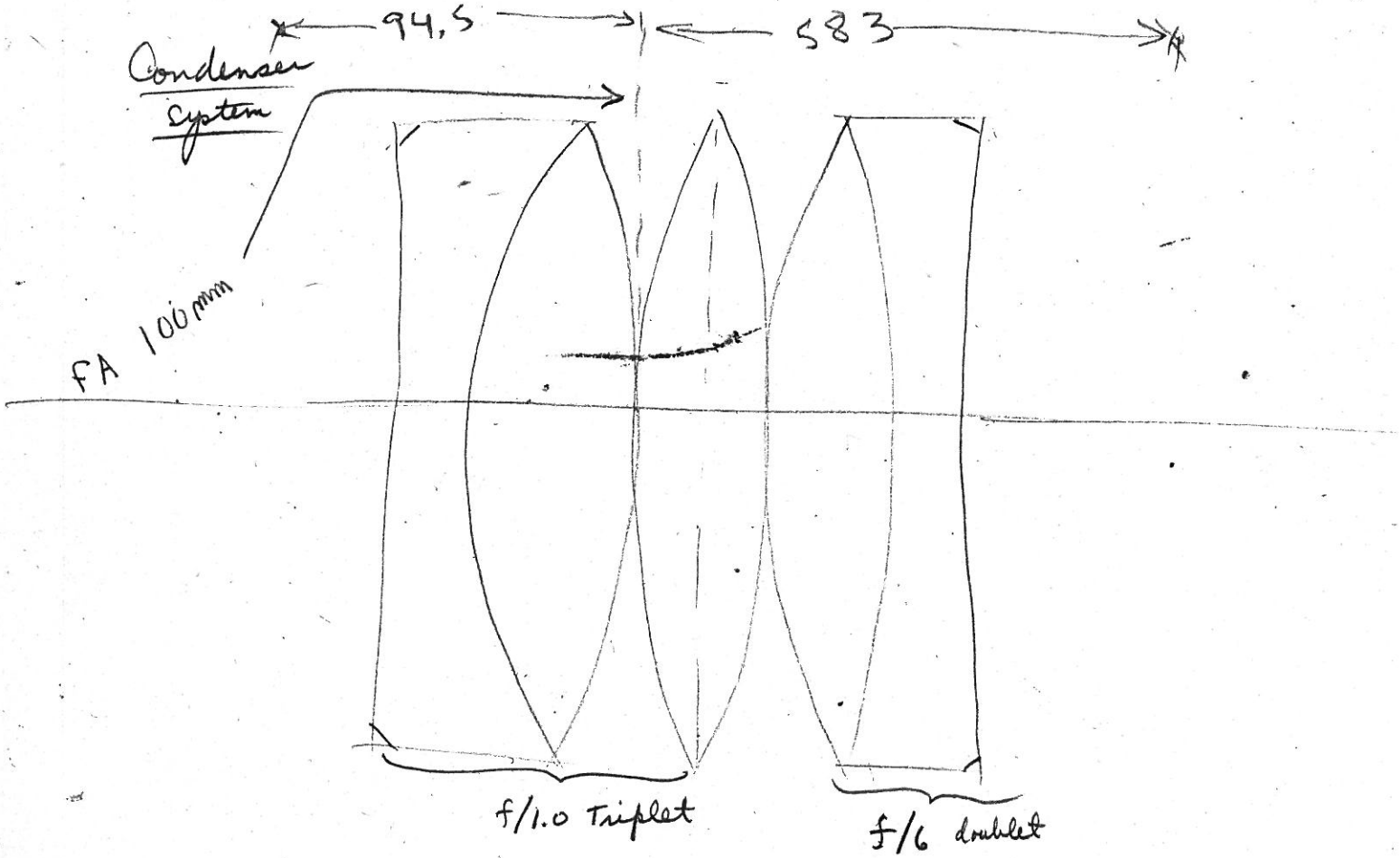
$ll' = fl' + fl$



$$\sum f_c = \frac{ll'}{l+l'} = \frac{(94.5)(583)}{583+94.5} = \frac{55200}{677.5} = 81.5 \text{ m/m}$$

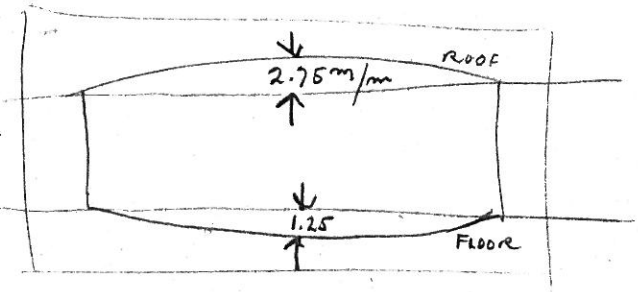
$f_c = 81.5$ m/m = 3.18 inch

Diam = 3.75"



Rectification Droop Gate

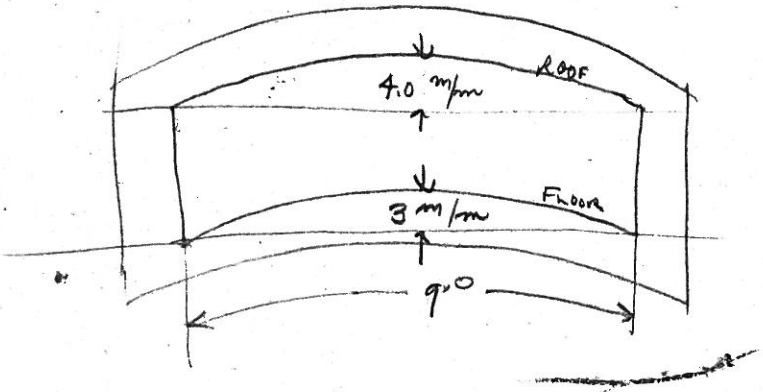
Original after Squaring:



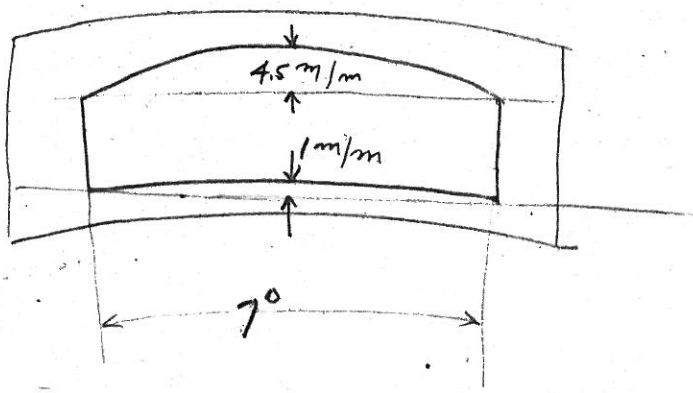
RAISE ROOF + 1.25 m/m
" FLOOR + 4.25 m/m

Required after draping:

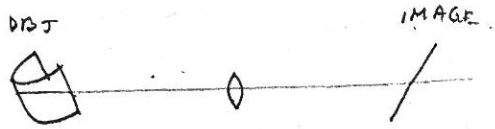
INTRODUCE ABOUT 8°
POSITIVE KEYSTONE

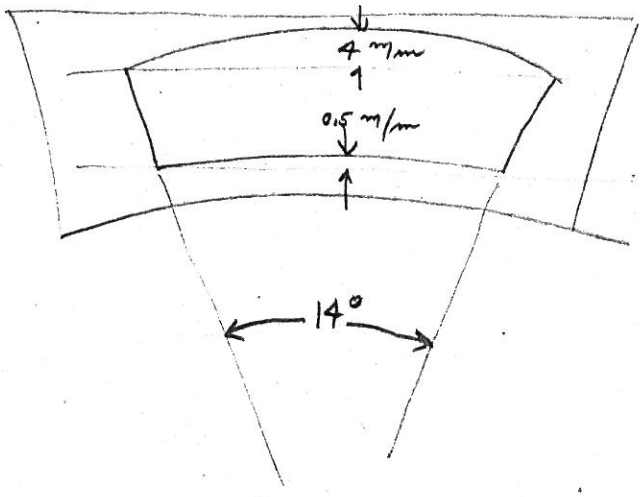


Case A: Sonnar f/2 50 m m lens.

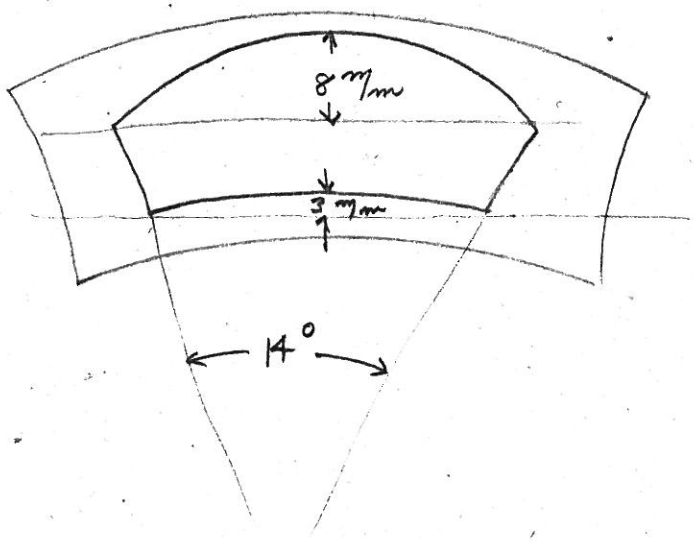


Case B: Summaron f/3.5 35 m/m lens



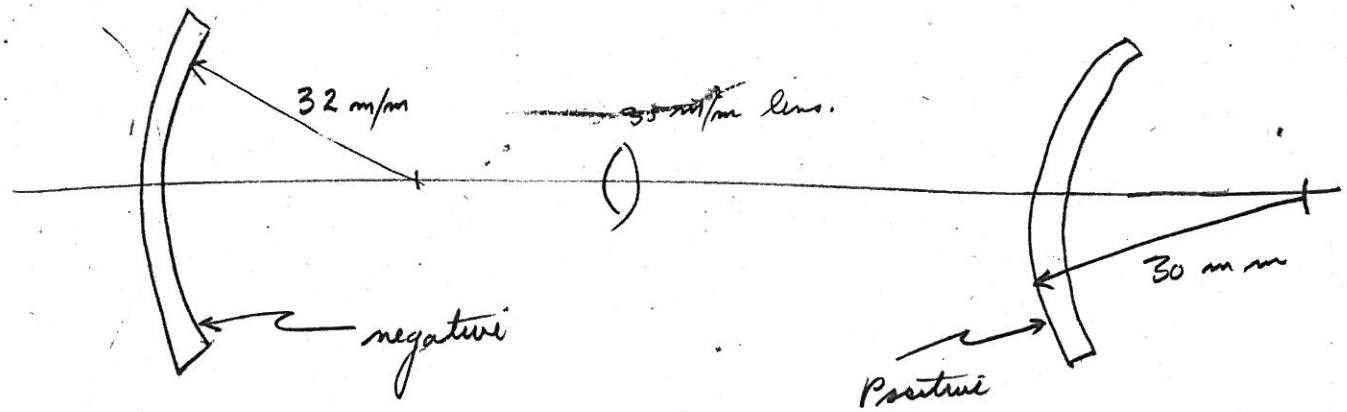


Case C: Sonnar f/2.0 50 m/m lens



S = 2.179 m/m corresponds to 30 m m radius of curvature

S = 2.035 " " 32 m m radius of curvature



Case D: Kodak Anastigmat f/4.5 $8\frac{5}{8}$"