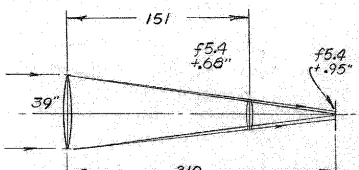


* BASED ON HOPE FOR 6" IMAGE TUBES IN THE FUTURE... 1977 M.W.

PRIMARY:
 R = 419" @ 39" DIA USEABLE
 F-RATIO = 5.372
 SAGITTA = .46"

CASSEGRAIN SHIELDING

12.34" USEABLE SECONDARY
 UNVIG. FIELD IS 6.2" DIA (32" DIA)



SECONDARY: (1.9 THK)
 R = 174.03" SAGITTA = .10"
 CLEAR APERTURE SHOULD BE 11.57" DIA MINIMUM FOR 3" DIA CASS UN-VIGUETTED FIELD.

$\left. \begin{aligned} 58.47 \times 5.372 &= 10.884 \text{ DIA} \\ 151.03 \times .95 &= 10.884 + .684 = \\ &11.57" \text{ DIA} \end{aligned} \right\}$

SHEET NO.	PART NO.	QUAN.	DESCRIPTION	MATERIAL	SHEET NO.	PART NO.	QUAN.	DESCRIPTION	MATERIAL
UNIVERSITY OF CALIFORNIA LICK OBSERVATORY									
40 INCH TELESCOPE									
1-METER CASS. OPTICAL LAYOUT AND SHIELDING DETAILS NOMINAL									
SCALE: VERTICAL 1/2 HORIZONTAL 1/10					DESEN J.O. 11 MAKE UNIT(S) DWG. NO. DRWN <i>Quicker</i> 5/16/82 APPROVED 9140.2 CHGD J.O. 10/4/78 DATE				

PLATE SCALE = $\frac{\text{FOCAL LENGTH}}{57.3} = \frac{\text{INCH}}{\text{DEGREE}}$

PRIMARY -
 $\frac{209.5}{180\pi} \times \frac{25.4 \text{ mm}}{3600\pi} = 7.3876 \pi/\text{mm} \rightarrow .061 \pi$

w/ SECONDARY -
 $\frac{39}{663} \times f17 = 663 \text{ FOCAL LENGTH}$
 $\frac{663}{180\pi} \times \frac{25.4 \text{ mm}}{3600\pi} = 7.1225 \pi/\text{mm}$