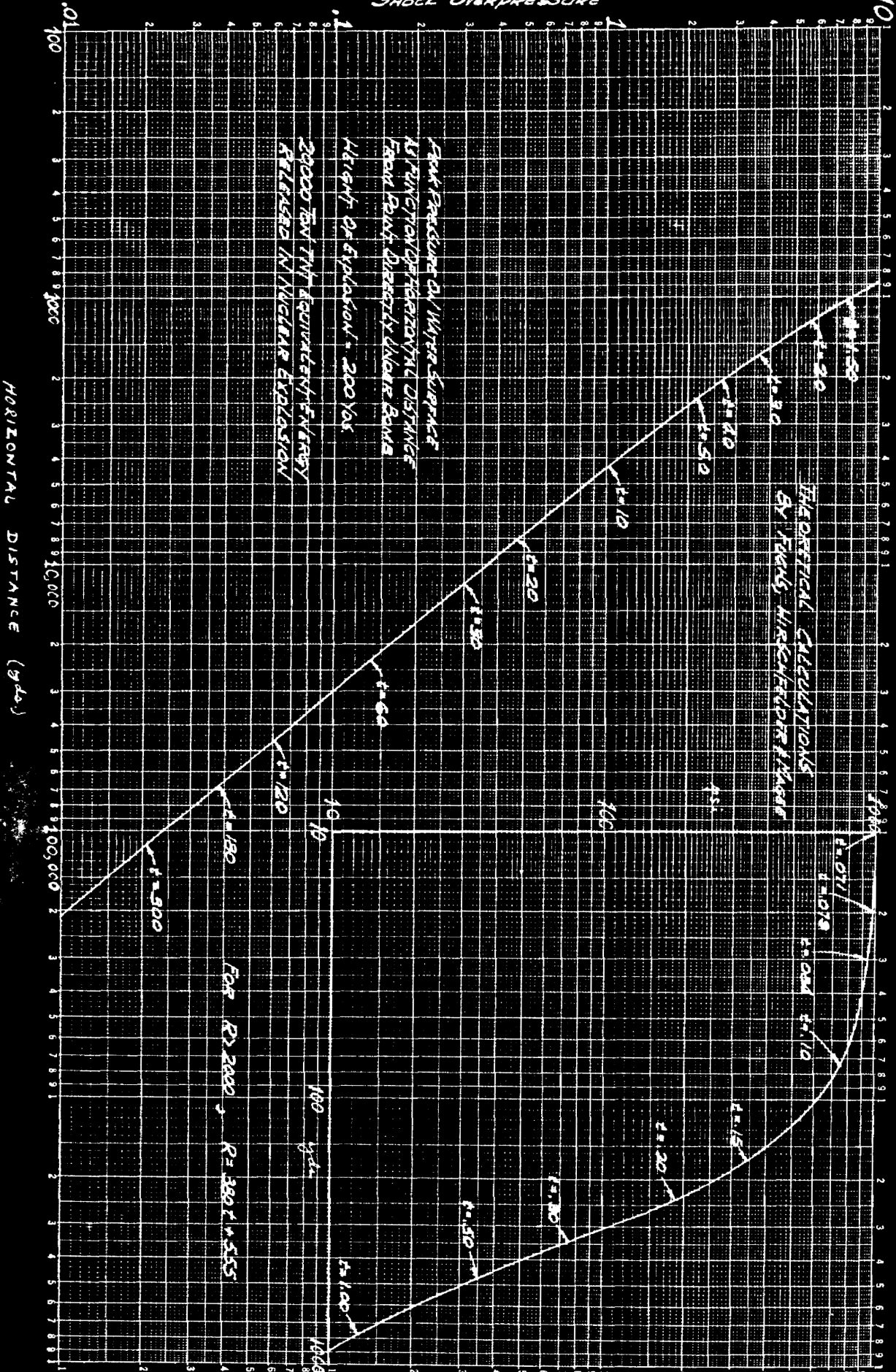


SHOCK OVERPRESSURE

404503



COLLECTION TR 5987  
 BOX No OPERATION CROSSLOADS

14 1/2" velocity sec.  
1450 ft/sec.  
10000 ft/sec.

**PRESSURE - TIME CURVE**  
AT VARIOUS DISTANCES ALONG THE  
SURFACE OF THE WATER  
ASSUMING A 20000 TON EXPLOSION  
(SCALED FROM IBM CALCULATIONS)

R=271.0 yds.  
R=385.0 yds.  
R=520.7 yds.

Shock Over Pressure in psi.

30  
25  
20  
15  
10  
5  
0  
-5

R=720 yds.

R=1066 yds.

R=1919 yds.

R=3238 yds.

R=3710 yds.

Time in seconds

10 15 20 25 30

10 15 20 25 30

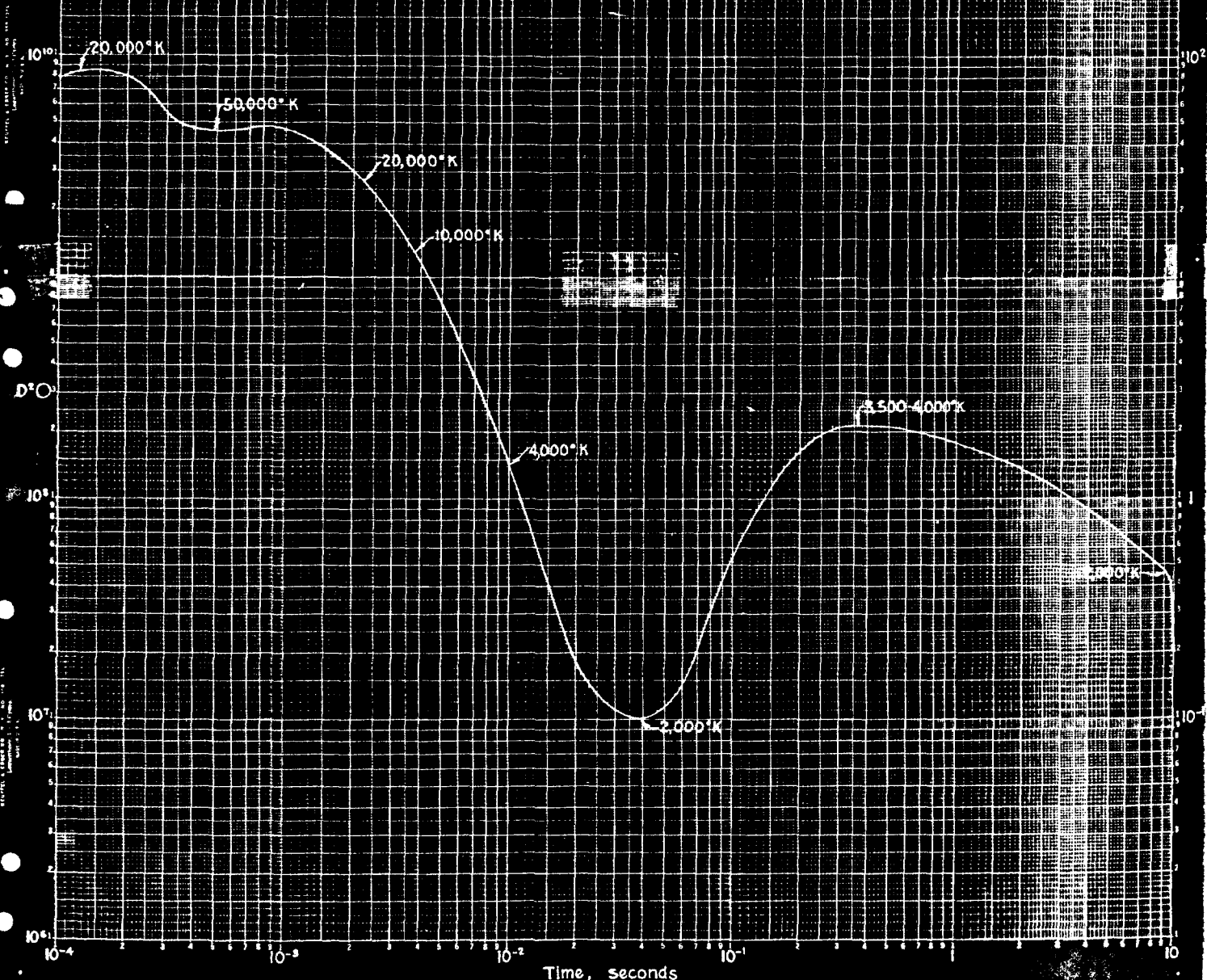
FIG. 1

LUMINATION

Left scale is in  $10^4$  "lums"

The "sun" is given by the solar constant 1.94 cal/cm<sup>2</sup> minute.

The right scale is "lums" at 10,000 yards



REPOSITORY LOS ALAMOS NAT LAB

COLLECTION \_\_\_\_\_

BOX No TR 5787

FOLDER OPERATION CROSSROADS

PRESSURE - TIME CURVE  
AT VARIOUS DISTANCES ALONG THE  
SURFACE OF THE WATER  
ASSUMING A 20,000 TON EXPLOSION  
(SCALED FROM I.B.M. CALCULATIONS)

