Section 1 LASER SYSTEM REPORT

1.A GDL Facility Report

The GDL facility continued operations during the third quarter of FY81.

A total of 430 shots were delivered by the facility in the period July 1 to September 30, 1981. The shot distribution was as follows:

3ω target experiments	237 shots
damage test facility	49
NLUF	74
alignment and calibration	70
total	430 shots

National Laser Users Facility operations for GDL during this period included 58 shots for the x-ray biophysics experiments and 16 shots for the Brigham Young University group.

Some of the experimental work carried out under the 0.35 μ m Interaction Physics Program and the kinetic x-ray diffraction experiments are reviewed elsewhere in this volume.

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1.B OMEGA Facilities Report

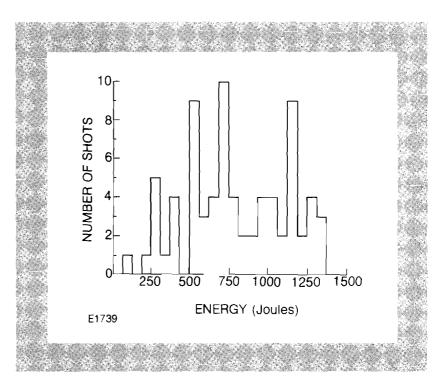
In the quarter July 1 to September 30, some 427 shots were fired on the OMEGA system. Of these, 104 shots were part of the beam uniformity characterization campaign which will be reported on in a later issue. Table 1 gives a breakdown by usage of the laser shots in the quarter, and Figs. 1 and 2 show the energy distribution of the 12 and 24 beam shots during August and September.

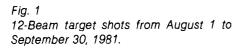
July 1, 1981 - S	September 30, 1981	
CATEGORY	NUMBER OF SHOTS	
Target Shots	101*	(24%)
Driver Align and Test	211	(49%)
Beamline c/o and Calibration	72*	(17%)
Software Test and Timing	43	(10%)
TOTAL	427	(100%)
* Including laser uniformity seri	es - 104 shots	
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Table 1 OMEGA laser system shot category distri-

bution July 1 to September 30, 1981.





LASER SYSTEM REPORT

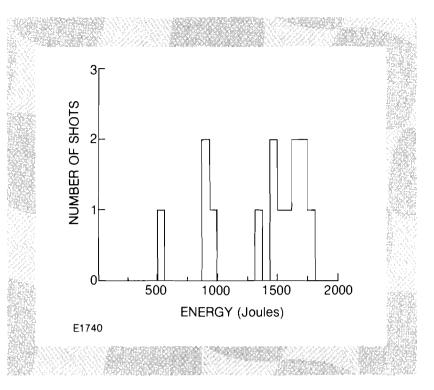


Fig. 2 24-Beam target shots from August 1 to September 30, 1981.