

```
TITLE 'NEW SYNTHETIC FIBER STUDY';
DATA FIBER;
  INPUT PERCENT STRENGTH @@;
  LABEL PERCENT='PRCENT COTTON';
  CARDS;
15 7 15 7 15 15 15 11 15 9
20 12 20 17 20 12 20 18 20 18
25 14 25 18 25 18 25 19 25 19
30 19 30 25 30 22 30 19 30 23
35 7 35 10 35 11 35 15 35 11
;
PROC GLM PLOTS=(DIAGNOSTICS);
  CLASS PERCENT;
  MODEL STRENGTH=PERCENT/P;
  OUTPUT OUT=NEW P=PREDY R=RESID;
PROC PLOT;
PLOT STRENGTH*PERCENT;
PROC UNIVARIATE NORMAL;
  VAR RESID;
RUN;
```