/\* Perform regression analysis \*/

proc reg data=WORK.IMPORT\_NUMERIC;

model Appliances\_num = Press\_mm\_hg\_num weekend day\_of\_week day\_of\_month daily\_avg\_Appliance daily\_avg\_light weekday hour daily\_min\_usage daily\_max\_usage time\_segment lights\_num RH\_out\_num/

clb;

run;

/\* Principal Components Analysis (PCA) and its visualization \*/

proc princomp data=WORK.IMPORT\_NUMERIC out=pc\_scores plots(ncomp=2)=score;

/\* Specify the numeric variables for PCA analysis \*/

var Appliances\_num lights\_num T1\_num RH\_1\_num T2\_num RH\_2\_num T3\_num RH\_3\_num T4\_num RH\_4\_num T5\_num RH\_5\_num T6\_num RH\_6\_num T7\_num RH\_7\_num T8\_num RH\_8\_num T9\_num RH\_9\_num T\_out\_num Press\_mm\_hg\_num RH\_out\_num Windspeed\_num Visibility\_num Tdewpoint\_num rv1\_num rv2\_num;

run;