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function TangentPlotEdit02

%Input file name for Excel file: must be in 'filename.xlsx' form
prompt = 'Excel file name: ';
filename = input(prompt)

%Read Excel spreadsheet into matrices, user selected range
data = xlsread(filename, -1);

%Split data into dip (column 1) and dip direction (column 2)
Dip = data(:,1);
DipDirection = data(:,2);
%Convert to Radians
transformedData = deg2rad(data);
%Matrices to plot
TanDipRad=tan(transformedData(:,1));
DipDirectionRad=transformedData(:,2);

%polarplot(TH,R); TH is the Dip direction, R is the Dip angle
polarplot(DipDirectionRad,TanDipRad, 'ks', 'MarkerFaceColor','black')

%Draw Polar Tangent Plot
pax = gca;
%Change outer circle to Azimuth
thetaLabels = 0:10:360;
pax.ThetaTick = thetaLabels;
pax.ThetaZeroLocation = 'top';
pax.ThetaDir = 'clockwise';
%Change R axis to tangent of dip magnitude
pax.RLim = [0 tan(deg2rad(65))];
pax.RTick = [0 tan(deg2rad(5)) tan(deg2rad(10)) tan(deg2rad(15))
tan(deg2rad(20)) tan(deg2rad(25)) tan(deg2rad(30)) tan(deg2rad(35))
tan(deg2rad(40)) tan(deg2rad(45)) tan(deg2rad(50)) tan(deg2rad(55))
tan(deg2rad(60)) tan(deg2rad(65))];
pax.RTickLabel = {'0' '5' '10' '15' '20' '25' '30' '35' '40' '45' '50' '55'
'60' '65'};

```

[View DrawTangentPlot.m](#)