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- - - - - constants used to get theta- - - - -

```
number = [  
    0  
    1  
    2  
    3  
    4  
    5  
    6  
    7  
    8  
    9  
    10  
    11  
    12  
    13  
    14  
    15  
    16  
    17  
    18  
    19  
    20  
    21  
    22  
    23  
    24  
    25  
    26  
    27  
    28  
    29  
    30  
    31  
    32  
    33  
    34  
    35  
    36  
    37  
    38  
    39
```

```
40
41
42
43
44
45
];
```

- - - - - readings from LUCI- - - - -

```
distance = [
255
255
255
255
255
255
255
72
255
36
255
255
255
255
28
255
12
12
12
255
11
11
46
11
69
11
69
11
69
11
68
12
68
12
68
12
68
92
92
92
92
255
```

```
255
255
255

%%extra point to complete circle
255
];
```

- - - - - x values of graph - - - - -

```
%%getting angle to make circle
theta = (number/45)*pi*2;

%%x values for complete circle
x = distance.*(cos(theta));
```

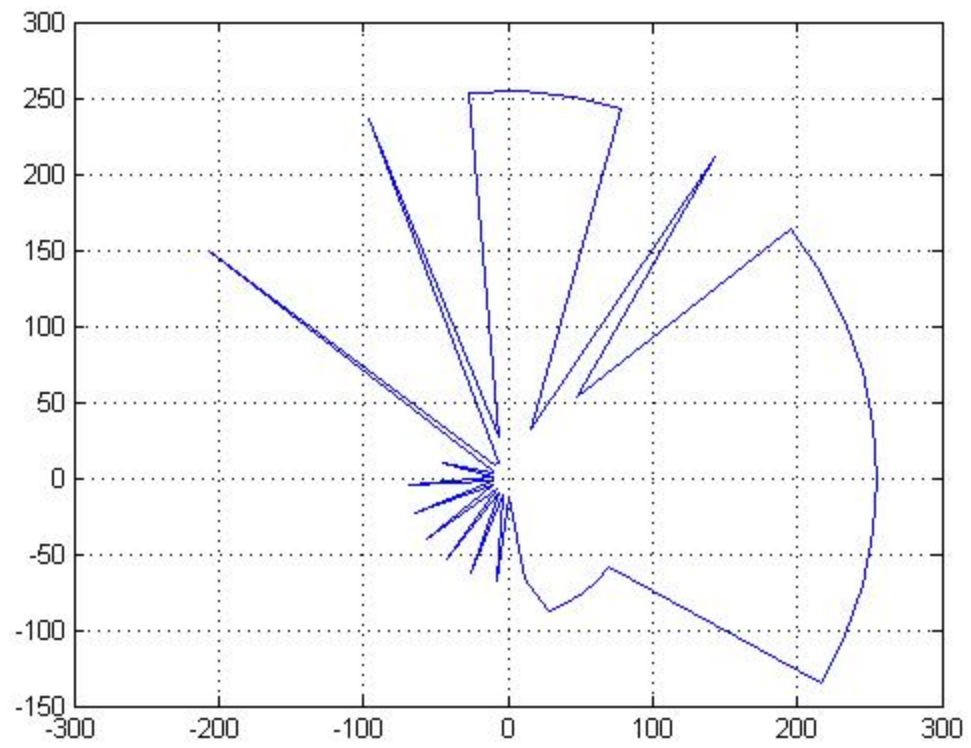
- - - - - y values of graph - - - - -

```
%%y values of graph
y = distance.*(sin(theta));
```

- - - - - plot points on of graph - - - - -

```
%%plot the x and y points
plot(x , y);

%%turn grid lines on
grid on;
```



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