	_	_				
$D_{\wedge}$	ha	.+ A	Ct.	al I	000	tion
NU	υu	, <i>-</i>	will	aı L	UCa	uon

6.75 3.50

3.25 7.33

## Generate the Test Vectors as Viewed by the Camera (a

Camera Location		Delta Lo	cation	Polar Location		Delta Location		Polar Location		Delta Location			
		Х	Υ	X2	Y2	D	Θ	X2	Y2	R	Θ	X2	Y2
	Α	-1	-1	7.75	4.50	8.9617	14.85861	4.25	8.33	9.3515	-17.9691	7.00	9.00
	В	-1	9	7.75	5.50	9.5033	9.637538	4.25	1.67	4.5663	23.54809	7.00	1.00
	С	9	9	2.25	5.50	5.9424	-22.75098	5.75	1.67	5.9876	28.80486	3.00	1.00
	D	9	-1	2.25	4.50	5.0312	-18.43495	5.75	8.33	10.122	-10.3836	3.00	9.00

## Result from Camera using Pol X= D \* sin(Θ + 45) Y= D \* c

								,					
Camera Location			Viewed Lo	ocation	CONFIRM Robot Actual Location		Viewed Location		CONFIRM Robot Actual Location		Viewed Location		
	Х	Υ		X2	<b>Y2</b>	Xr	Yr	X2	Y2	Xr	Yr	X2	<b>Y2</b>
Α	-1	-1		7.75	4.50	6.75	3.50	4.25	8.33	3.25	7.33	7.00	9.00
В	-1	9		7.75	5.50	6.75	3.50	4.25	1.67	3.25	7.33	7.00	1.00
С	9	9		2.25	5.50	6.75	3.50	5.75	1.67	3.25	7.33	3.00	1.00
D	9	-1		2.25	4.50	6.75	3.50	5.75	8.33	3.25	7.33	3.00	9.00

6.00 8.00

3.00 7.00

8.00 1.00

Polar Location	Delta Location	Polar Location	Delta Location	Polar Location		
R Θ	X2 Y2	R Θ	X2 Y2	R O		
11.402 -7.12502	4.00 8.00	8.9443 -18.4349	9.00 2.00	9.2195 32.47119		
7.0711 36.8699	4.00 2.00	4.4721 18.43495	9.00 8.00	12.042 3.366461		
3.1623 26.56505	6.00 2.00	6.3246 26.56505	1.00 8.00	8.0623 -37.875		
9.4868 -26.5651	6.00 8.00	<b>10</b> -8.1301	1.00 2.00	2.2361 -18.4349		

## ar Location os(Θ + 45)

CONFIRM Robot Actual Location			wed ation		M Robot ocation		wed ation		M Robot ocation
Xr	Yr	X2	Y2	Xr	Yr	X2 Y2		Xr	Yr
6.00	8.00	4.00	8.00	3.00	7.00	9.00	2.00	8.00	1.00
6.00	8.00	4.00	2.00	3.00	7.00	9.00	8.00	8.00	1.00
6.00	8.00	6.00	2.00	3.00	7.00	1.00	8.00	8.00	1.00
6.00	8.00	6.00	8.00	3.00	7.00	1.00	2.00	8.00	1.00