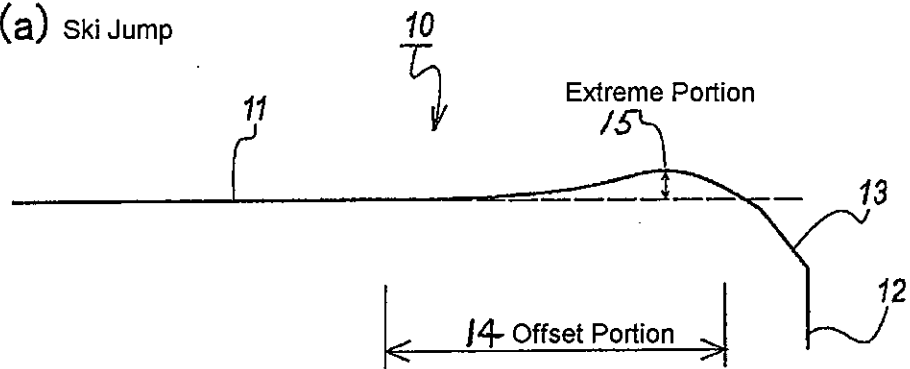


(a) Ski Jump



(b) Roll-Off

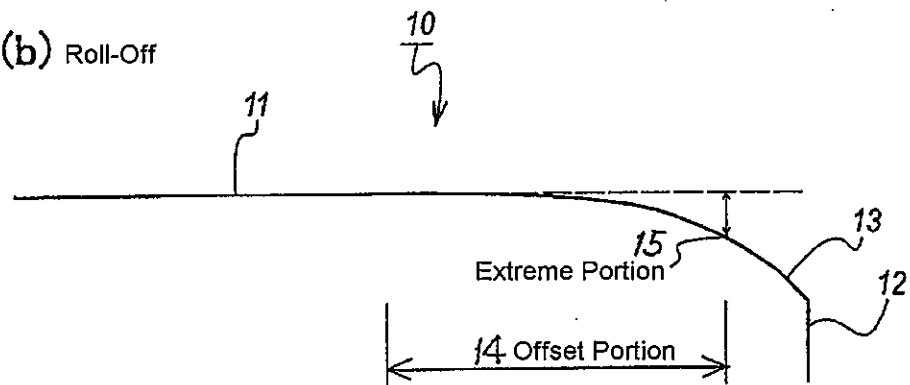


FIG. 1

Maximum Offset Value from
Straight Line connecting Two Points

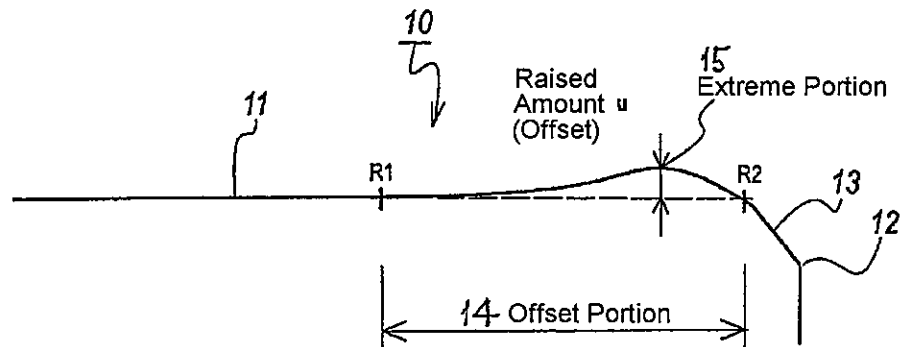
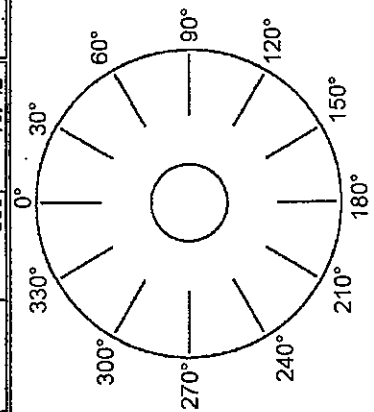


FIG. 2

	Measure- ment Angle	Maximum Offset Value	Maximum- Minimum
Example 1	0	8.57	2.86
	30	8.52	
	60	7.50	
	90	6.86	
	120	6.75	
	150	7.05	
	180	8.60	
	210	7.57	
	240	8.47	
	270	9.41	
	300	9.61	
Compara- tive Example 1	330	9.43	16.10
	0	19.94	
	30	17.99	
	60	18.42	
	90	16.60	
	120	17.62	
	150	21.34	
	180	22.96	
	210	27.67	
	240	32.42	
	270	32.52	
	300	25.13	
	330	16.42	



Maximum Offset Value between Two Arbitrary Points

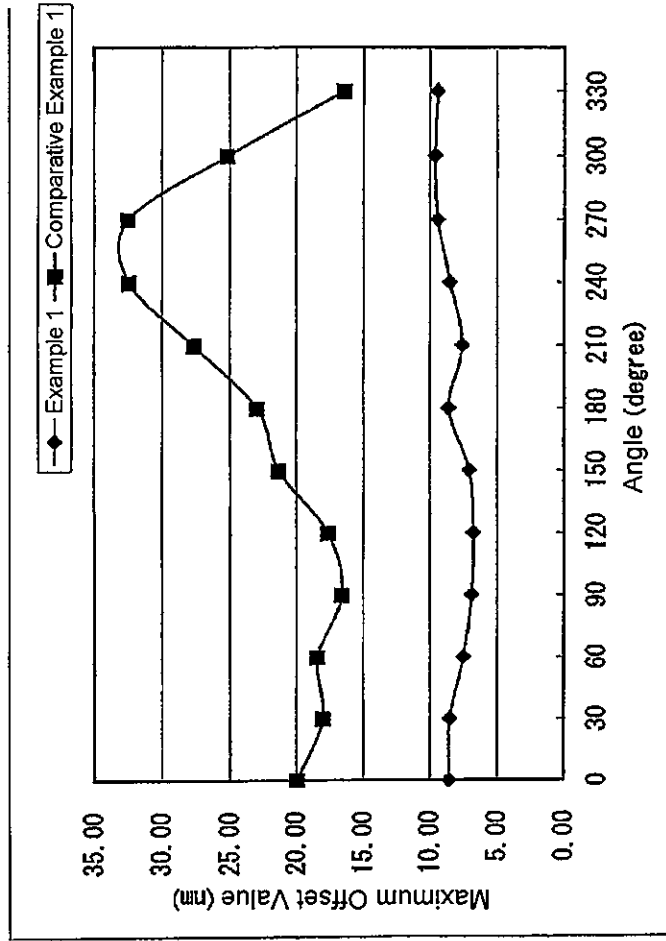


FIG. 3

Radial Position of Vertex Portion 15 of Ski Jump

	Angle	Radial Position	
Example 1	0	30.7	Maximum 30.80
	30	30.8	Minimum 30.40
	60	30.7	Average 30.62
	90	30.8	Standard Deviation 0.14
	120	30.8	Relative Mean Deviation 0.005
	150	30.8	Circularity 0.40
	180	30.5	Concentricity 1.07
	210	30.5	
	240	30.4	
	270	30.5	
	300	30.5	
	330	30.5	
Comparative Example 2	0	31.6	Maximum 32.00
	30	30.9	Minimum 29.40
	60	31.2	Average 30.64
	90	32.0	Standard Deviation 0.79
	120	30.6	Relative Mean Deviation 0.026
	150	30.3	Circularity 2.60
	180	30.0	Concentricity 5.68
	210	29.4	
	240	29.7	
	270	30.0	
	300	30.8	
	330	31.2	

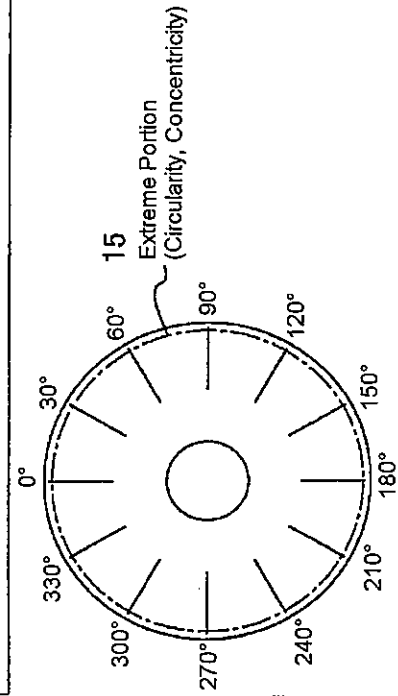
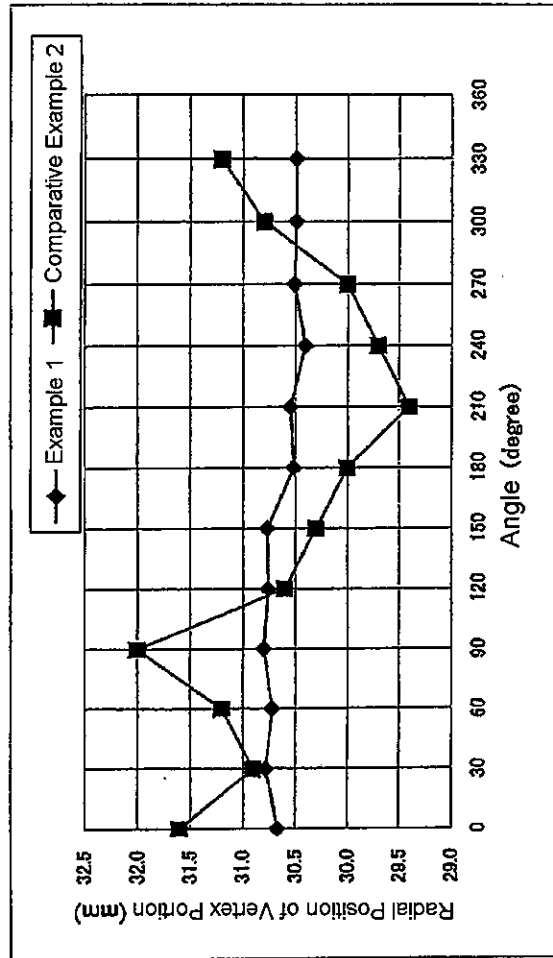


FIG. 4

Maximum Offset Values in Examples
and Comparative Examples

Measurement Angle	Example 1	Comparative Example 1	Example 2	Comparative Example 3
0	8.57	19.94	18.05	10.23
30	8.52	17.99	18.52	13.52
60	7.50	18.42	18.32	18.23
90	6.86	16.60	17.86	22.64
120	6.75	17.62	17.52	22.73
150	7.05	21.34	16.85	20.52
180	8.60	22.96	17.36	15.71
210	7.57	27.67	17.84	15.65
240	8.47	32.42	18.21	20.45
270	9.41	32.52	18.80	18.27
300	9.61	25.13	18.41	14.92
330	9.43	16.42	18.22	12.58
Maximum-Minimum (nm)	2.86	16.10	1.95	12.50

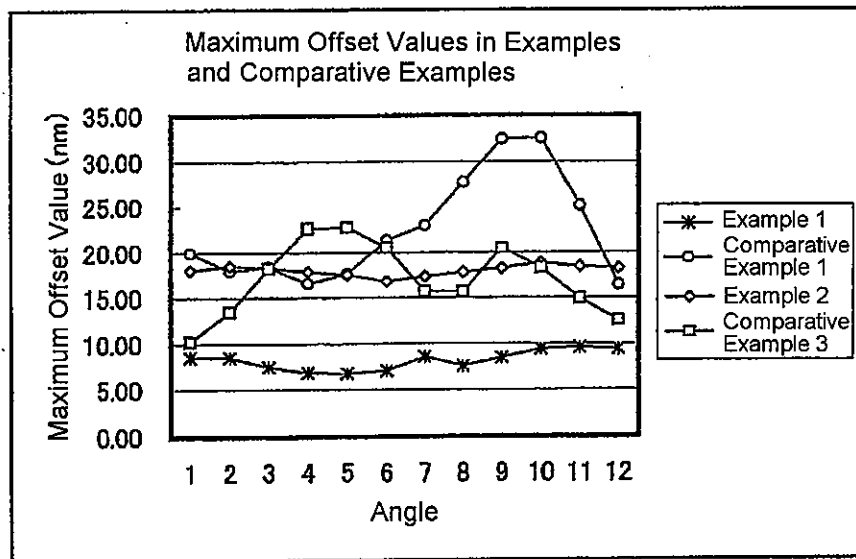


FIG. 5

Radial Position of Vertex Portion 15 of Ski Jump

	Example 3		Comparative Example 4	
	Angle	Radial Position	Angle	Radial Position
Example 3	0	30.7	0	31.6
	30	30.8	30	30.9
	60	30.7	60	31.2
	90	30.8	90	32.0
	120	30.8	120	30.6
	150	30.8	150	30.3
	180	30.5	180	30.0
	210	30.5	210	29.4
	240	30.4	240	29.7
	270	30.5	270	30.0
	300	30.5	300	30.8
	330	30.5	330	31.2
		Maximum 30.80 Minimum 30.40 Average 30.62 Standard Deviation 0.14 Relative Mean Deviation 0.005 Circularity 0.40 Concentricity 1.07		
Comparative Example 4	0	31.6	0	31.6
	30	30.9	30	30.9
	60	31.2	60	31.2
	90	32.0	90	32.0
	120	30.6	120	30.6
	150	30.3	150	30.3
	180	30.0	180	30.0
	210	29.4	210	29.4
	240	29.7	240	29.7
	270	30.0	270	30.0
	300	30.8	300	30.8
	330	31.2	330	31.2
		Maximum 32.00 Minimum 29.40 Average 30.64 Standard Deviation 0.79 Relative Mean Deviation 0.026 Circularity 2.60 Concentricity 5.68		

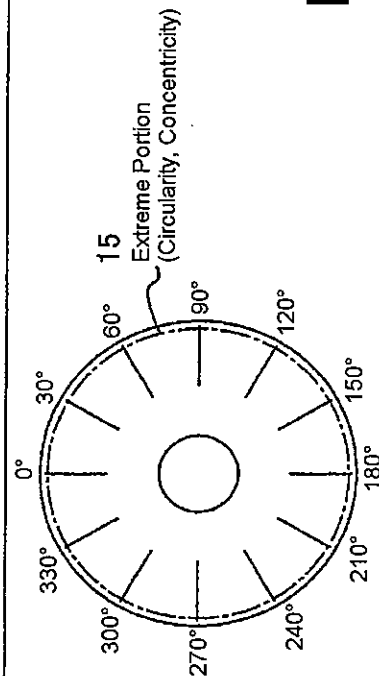
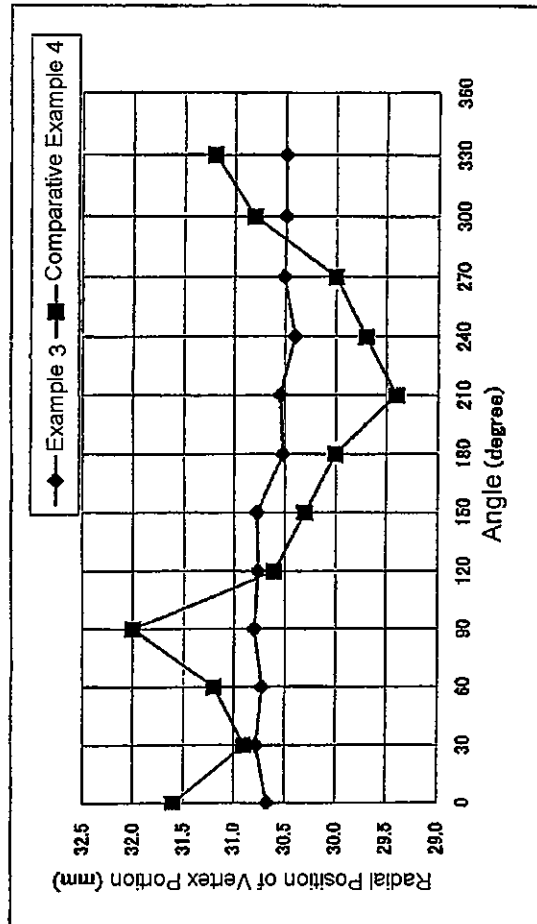
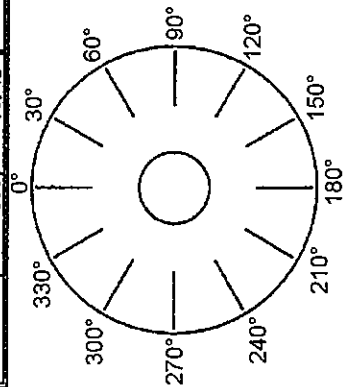


FIG. 6

Measure- ment Angle	Maximum Offset Value	Maximum- Minimum
0	8.57	2.86
30	8.52	
60	7.50	
90	6.86	
120	6.75	
150	7.05	
180	8.60	
210	7.57	
240	8.47	
270	9.41	
300	9.61	
330	9.43	
0	19.94	16.10
30	17.99	
60	18.42	
90	16.60	
120	17.62	
150	21.34	
180	22.96	
210	27.67	
240	32.42	
270	32.52	
300	25.13	
330	16.42	



Maximum Offset Value between Two Arbitrary Points

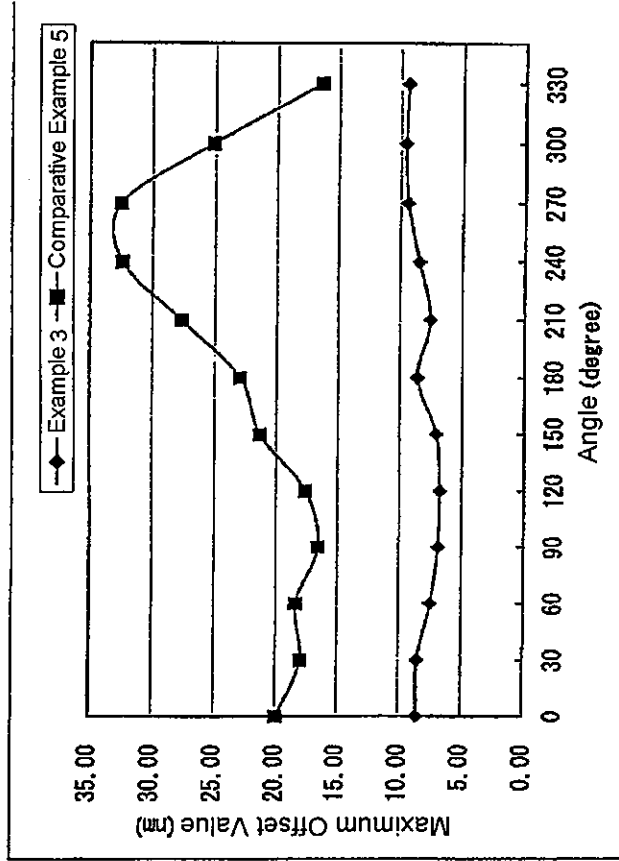


FIG. 7