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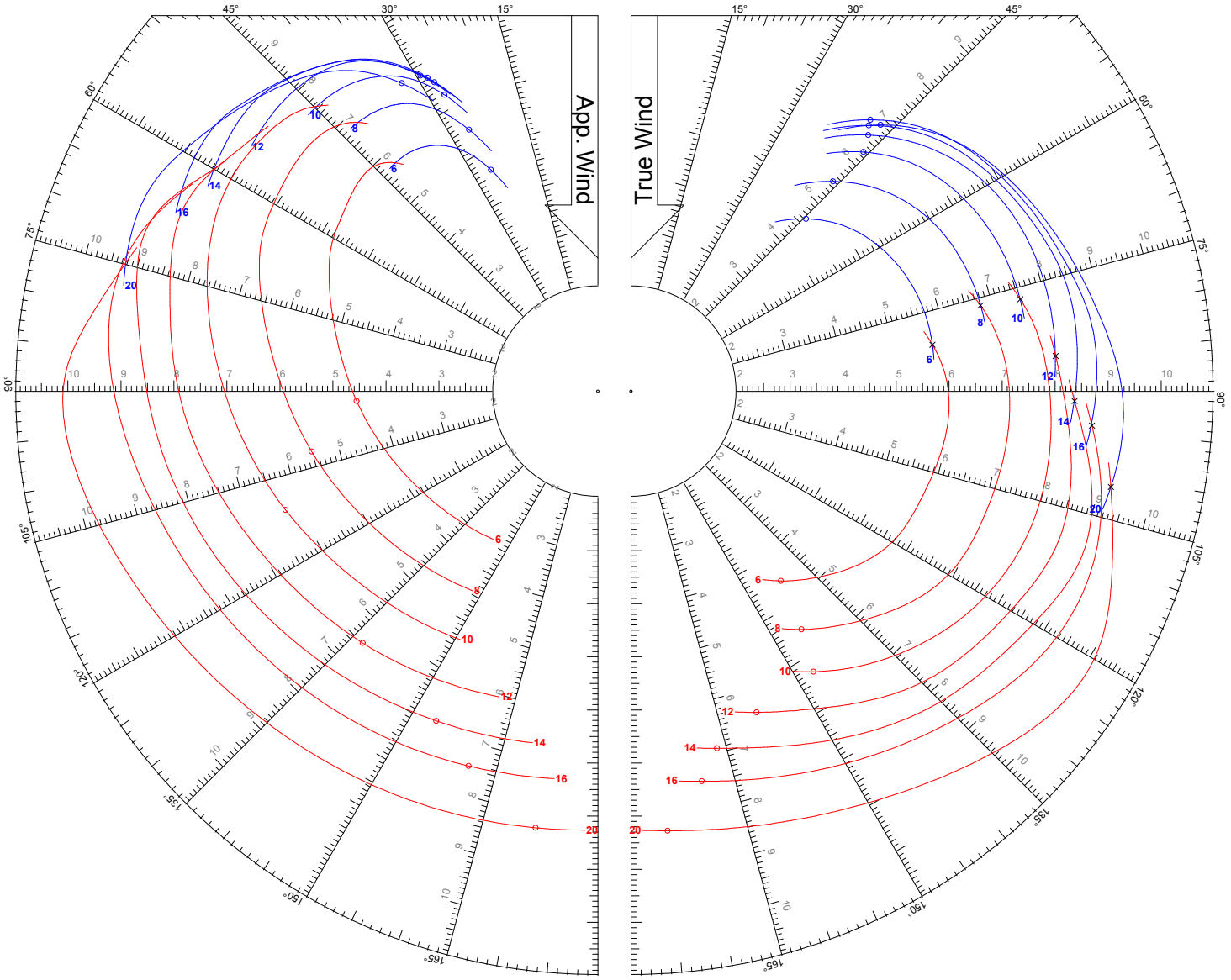

Polar Plot for Boat	
Name	**Hanse 415**
Sail Number	
Class	**HANSE 415**
Designer	**judel/vrolijk**
Builder	**Hanse Yachts**
Issued On	**16.12.2011 - VPP 2011 1.01**

TWS: 6, 8, 10, 12, 14, 16, 20 kts

Jib

Asymmetric Spinnaker on Centerline

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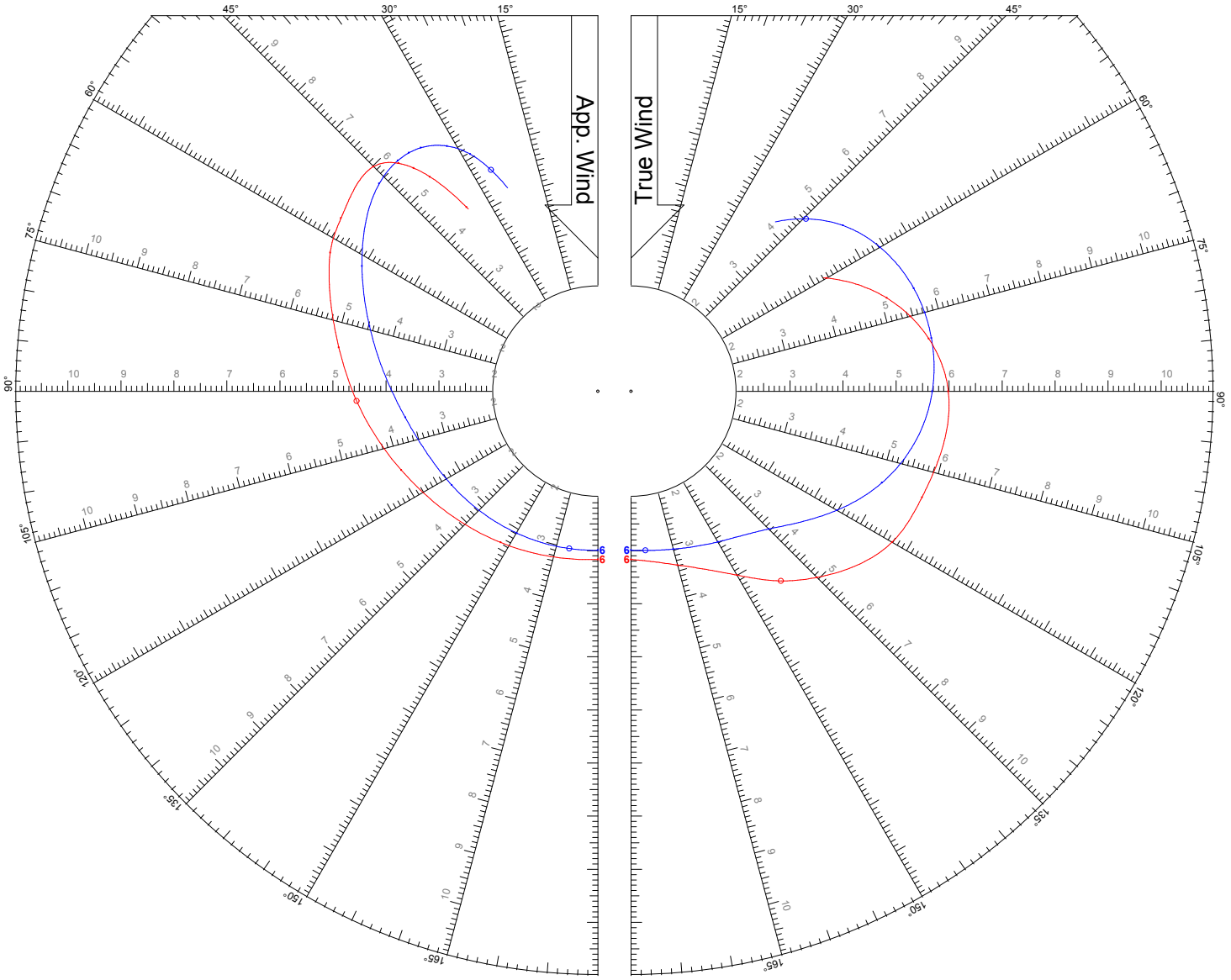

Polar Plot for Boat	
Name	**Hanse 415**
Sail Number	
Class	**HANSE 415**
Designer	**judel/vrolijk**
Builder	**Hanse Yachts**
Issued On	**16.12.2011 - VPP 2011 1.01**

TWS: 6 kts

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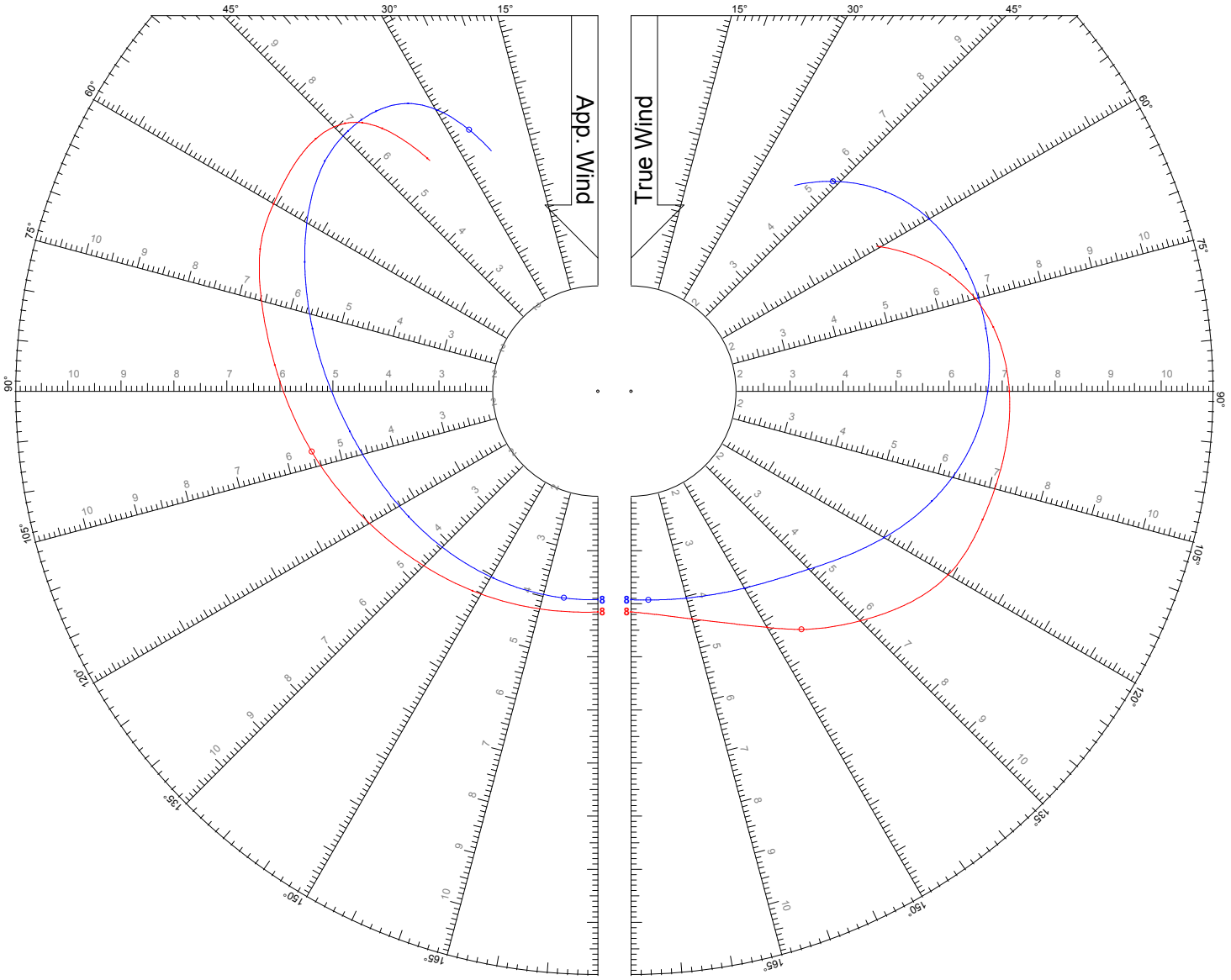

Polar Plot for Boat	
Name	**Hanse 415**
Sail Number	
Class	**HANSE 415**
Designer	**judel/vrolijk**
Builder	**Hanse Yachts**
Issued On	**16.12.2011 - VPP 2011 1.01**

TWS: 8 kts

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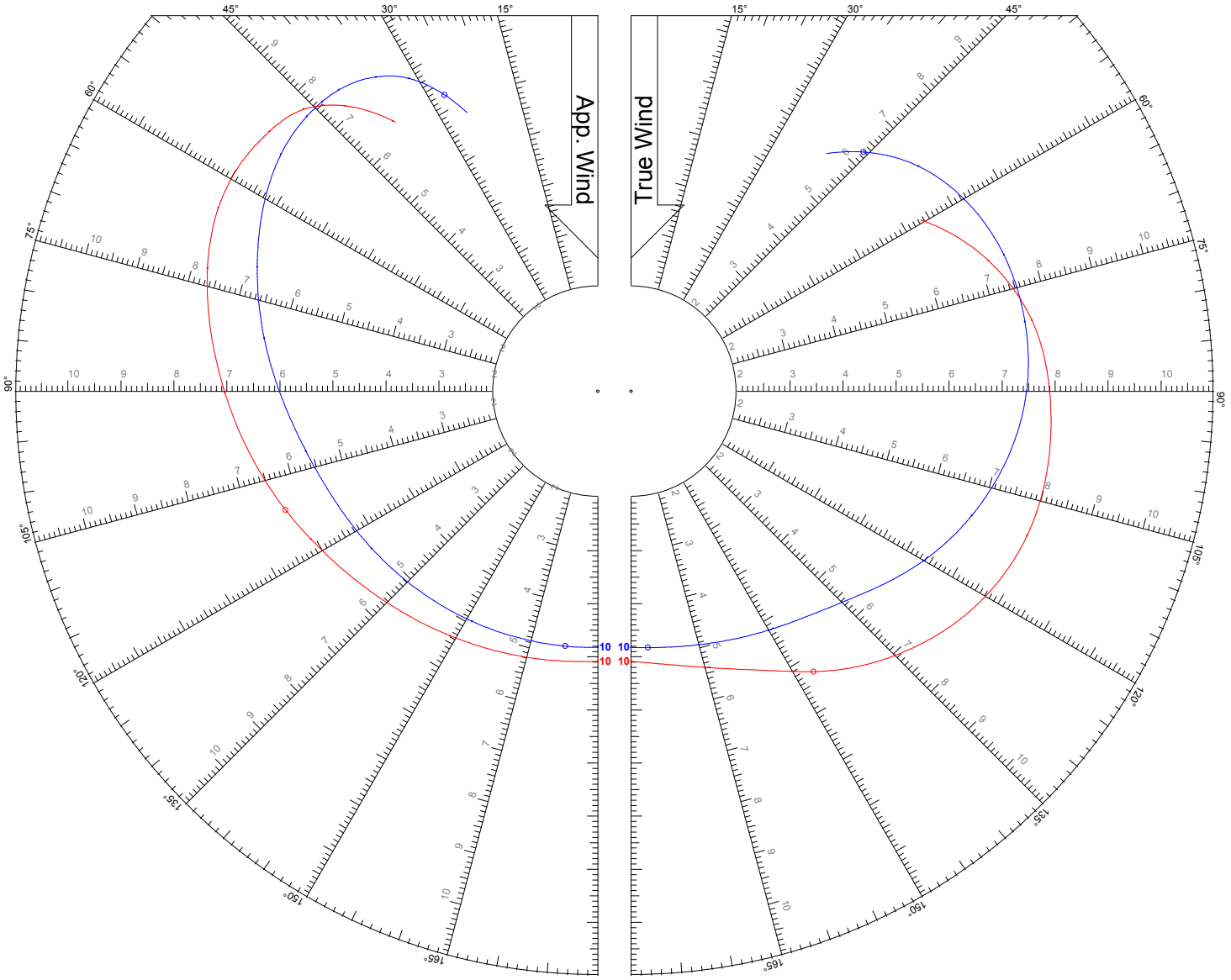

Polar Plot for Boat	
Name	**Hanse 415**
Sail Number	
Class	**HANSE 415**
Designer	**judel/vrolijk**
Builder	**Hanse Yachts**
Issued On	**16.12.2011 - VPP 2011 1.01**

TWS: 10 kts

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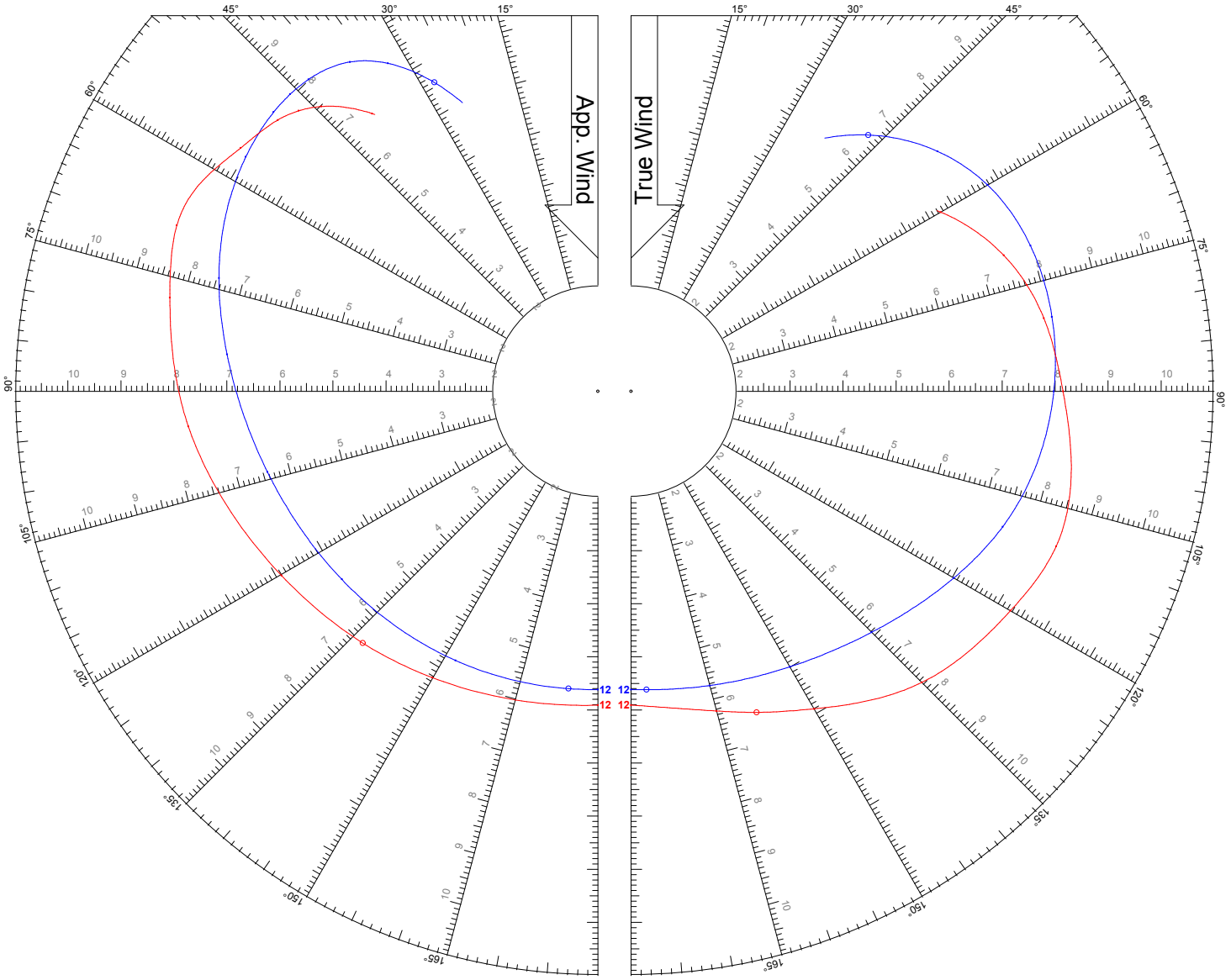

Polar Plot for Boat	
Name	**Hanse 415**
Sail Number	
Class	**HANSE 415**
Designer	**judel/vrolijk**
Builder	**Hanse Yachts**
Issued On	**16.12.2011 - VPP 2011 1.01**

TWS: 12 kts

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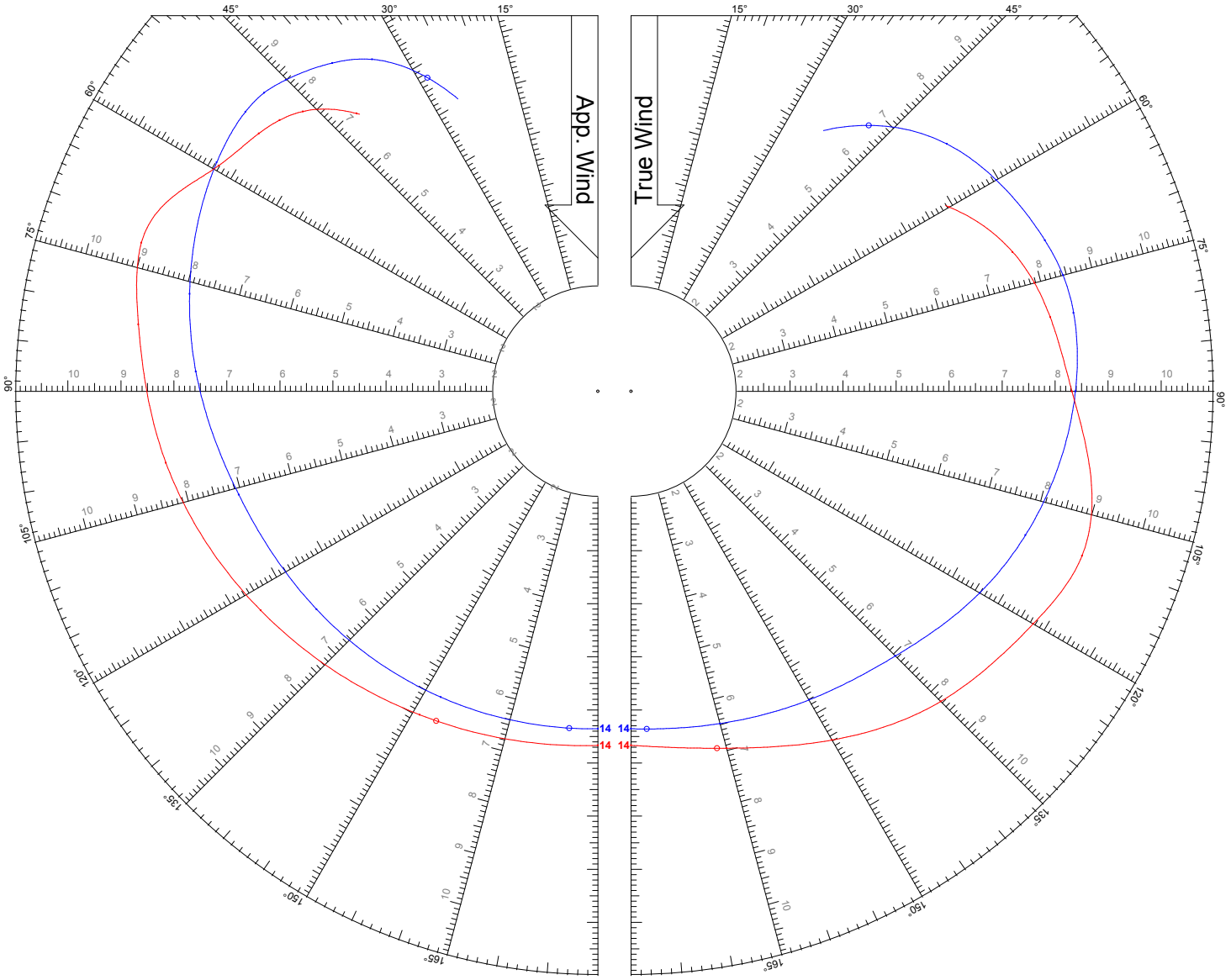

Polar Plot for Boat	
Name	**Hanse 415**
Sail Number	
Class	**HANSE 415**
Designer	**judel/vrolijk**
Builder	**Hanse Yachts**
Issued On	**16.12.2011 - VPP 2011 1.01**

TWS: 14 kts

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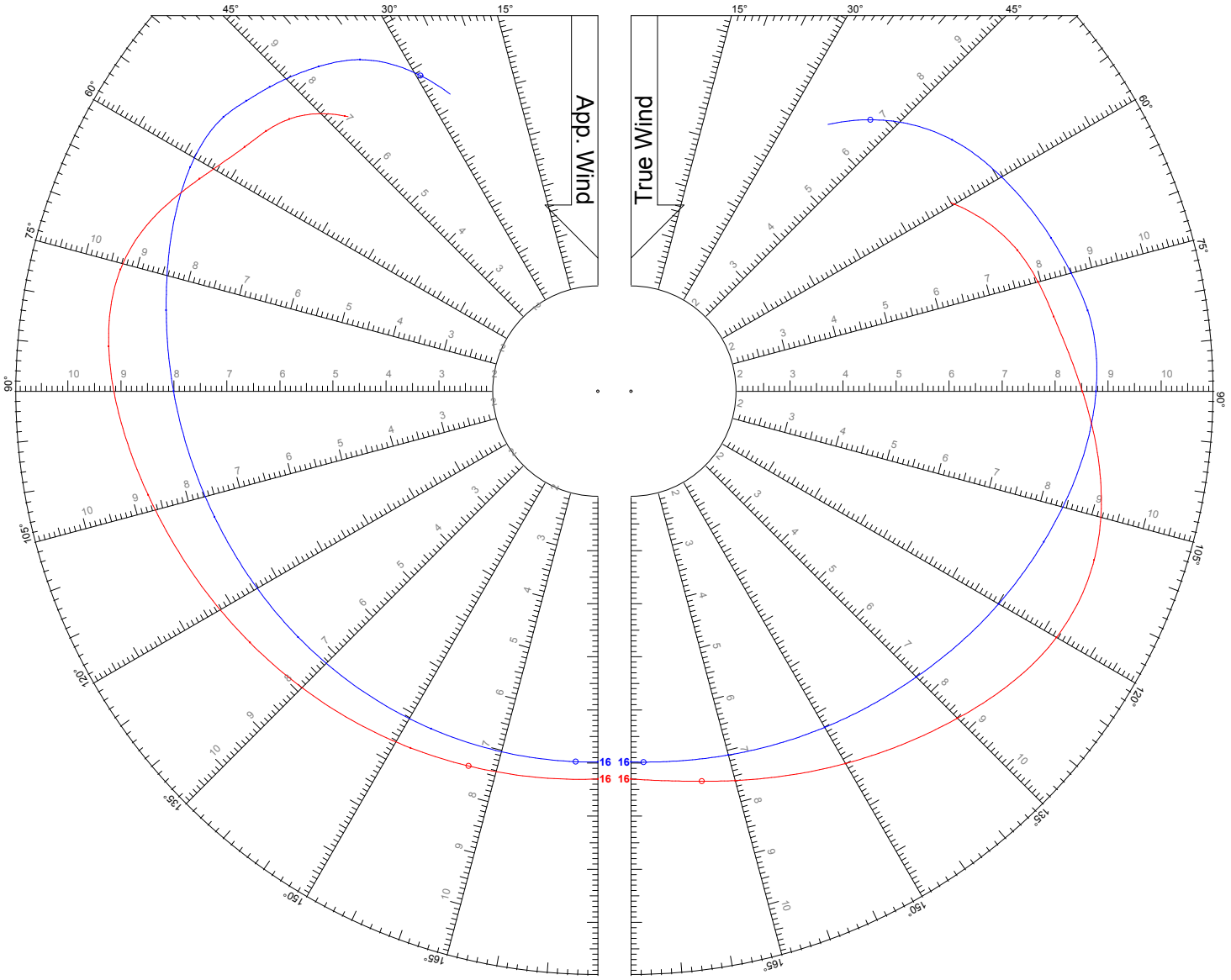

Polar Plot for Boat	
Name	**Hanse 415**
Sail Number	
Class	**HANSE 415**
Designer	**judel/vrolijk**
Builder	**Hanse Yachts**
Issued On	**16.12.2011 - VPP 2011 1.01**

TWS: 16 kts

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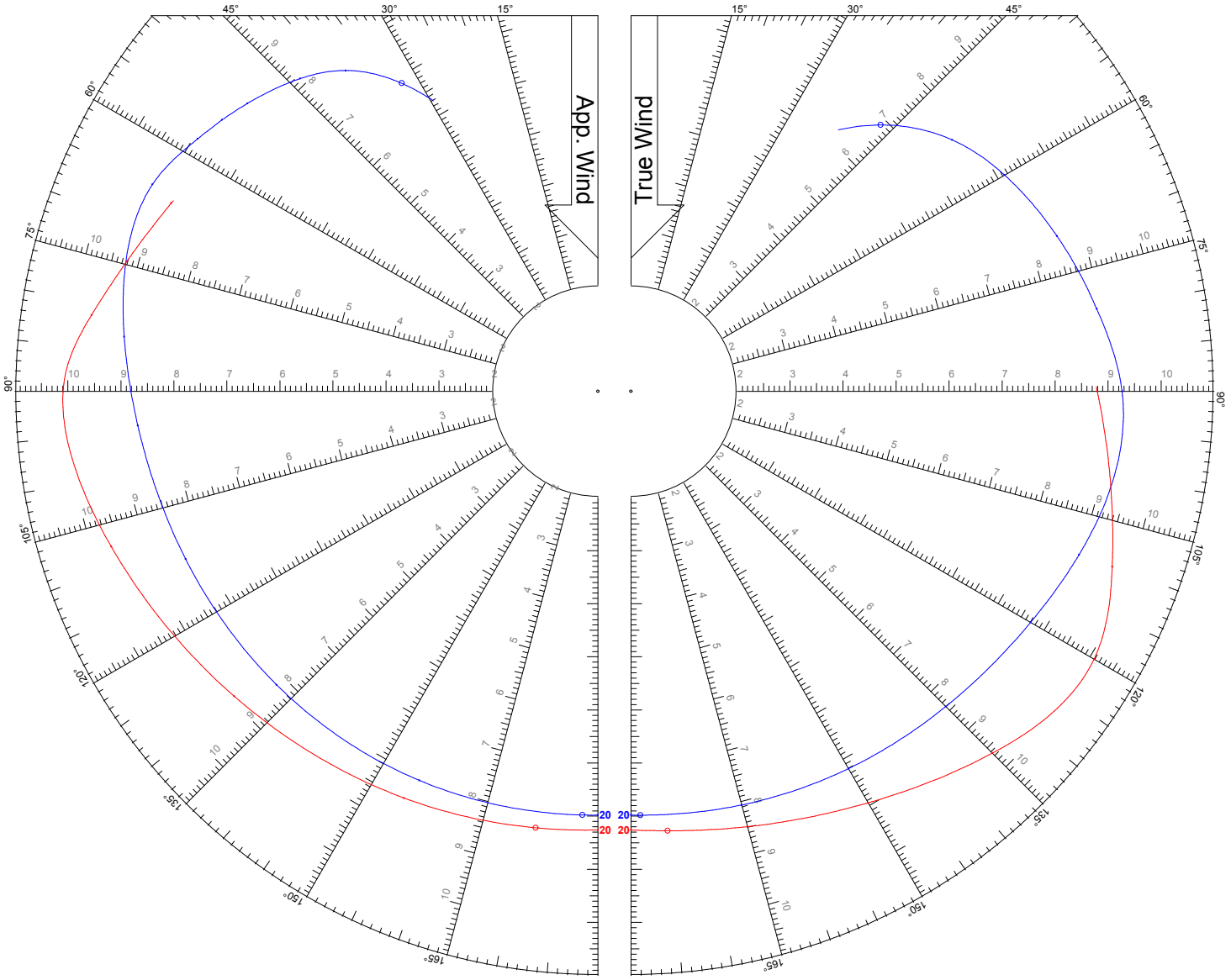

Polar Plot for Boat	
Name	**Hanse 415**
Sail Number	
Class	**HANSE 415**
Designer	**judel/vrolijk**
Builder	**Hanse Yachts**
Issued On	**16.12.2011 - VPP 2011 1.01**

TWS: 20 kts

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Polar Tables

Boat Name: **Hanse 415**

Sail No:

Sail: **Best Performance**

Issued On: **16.12.2011 - VPP 2011 1.01**

TWS = 6 Kts

TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
45,5° (b)	4,63	3,25	9,82	25,8°	4,1°	1,00	1,00
52°	5,07	3,12	9,96	28,3°	4,2°	1,00	1,00
60°	5,42	2,71	9,90	31,7°	4,2°	1,00	1,00
70°	5,67	1,94	9,56	36,1°	3,9°	1,00	1,00
75°	5,73	1,48	9,31	38,5°	3,6°	1,00	1,00
80°	5,75	1,00	9,01	41,0°	3,4°	1,00	1,00
90°	5,99	0,00	8,48	45,1°	12,3°	1,00	1,00
110°	5,84	2,00	6,79	56,1°	11,1°	1,00	1,00
120°	5,68	2,84	5,85	62,7°	10,0°	1,00	1,00
135°	4,96	3,50	4,30	80,5°	6,9°	1,00	1,00
150°	4,00	3,46	3,23	111,8°	5,4°	1,00	1,00
165°	3,39	3,27	2,87	147,2°	5,0°	1,00	1,00
180°	3,17	3,17	2,83	180,0°	4,8°	1,00	1,00
141,6° (r)	4,55	3,57	3,73	92,3°	6,1°	1,00	1,00

TWS = 8 Kts

TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
44,0° (b)	5,49	3,95	12,54	26,3°	8,2°	1,00	1,00
52°	6,10	3,75	12,70	29,8°	8,6°	1,00	1,00
60°	6,49	3,25	12,57	33,4°	8,2°	1,00	1,00
70°	6,73	2,30	12,09	38,5°	6,9°	1,00	1,00
75°	6,78	1,76	11,75	41,1°	6,1°	1,00	1,00
80°	6,94	1,21	11,47	43,4°	16,3°	1,00	1,00
90°	7,14	0,00	10,72	48,3°	15,7°	1,00	1,00
110°	7,06	2,42	8,67	60,1°	12,8°	1,00	1,00
120°	6,91	3,46	7,51	67,2°	11,4°	1,00	1,00
135°	6,11	4,32	5,68	85,4°	8,4°	1,00	1,00
150°	5,13	4,45	4,38	114,2°	6,0°	1,00	1,00
165°	4,44	4,29	3,89	147,8°	5,2°	1,00	1,00
180°	4,15	4,15	3,85	180,0°	4,8°	1,00	1,00
144,3° (r)	5,52	4,48	4,77	101,9°	6,6°	1,00	1,00

TWS = 10 Kts

TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
44,2° (b)	6,29	4,50	15,15	27,4°	15,4°	1,00	1,00
52°	6,88	4,24	15,23	31,1°	15,6°	1,00	1,00
60°	7,25	3,62	15,00	35,3°	14,6°	1,00	1,00
70°	7,49	2,56	14,40	40,7°	12,3°	1,00	1,00
75°	7,54	1,95	13,99	43,7°	10,9°	1,00	1,00
80°	7,68	1,33	13,63	46,3°	26,6°	0,99	1,00
90°	7,90	0,00	12,74	51,7°	22,1°	1,00	1,00
110°	7,95	2,72	10,43	64,3°	15,4°	1,00	1,00
120°	7,72	3,86	9,08	72,6°	12,5°	1,00	1,00
135°	7,04	4,98	7,07	90,3°	10,0°	1,00	1,00
150°	6,09	5,27	5,62	117,2°	6,7°	1,00	1,00
165°	5,38	5,20	5,00	148,8°	5,5°	1,00	1,00
180°	5,08	5,08	4,92	180,0°	4,9°	1,00	1,00
146,9° (r)	6,30	5,28	5,84	110,8°	7,1°	1,00	1,00

TWS = 12 Kts

TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
42,9° (b)	6,58	4,82	17,41	28,0°	19,8°	1,00	0,90
52°	7,34	4,52	17,50	32,7°	23,0°	1,00	0,95
60°	7,77	3,88	17,25	37,0°	23,8°	1,00	1,00
70°	8,02	2,74	16,56	42,9°	19,2°	1,00	1,00
75°	8,06	2,09	16,10	46,1°	16,7°	1,00	1,00
80°	8,06	1,40	15,58	49,3°	14,3°	1,00	1,00
90°	8,15	0,00	14,51	55,8°	26,8°	0,96	0,92
110°	8,54	2,92	12,12	68,5°	16,9°	1,00	1,00
120°	8,27	4,13	10,64	77,7°	14,4°	1,00	1,00
135°	7,76	5,48	8,52	94,9°	11,0°	1,00	1,00
150°	6,90	5,98	6,94	120,2°	7,5°	1,00	1,00
165°	6,23	6,02	6,19	149,9°	5,8°	1,00	1,00
180°	5,91	5,91	6,09	180,0°	5,0°	1,00	1,00
158,6° (r)	6,49	6,05	6,41	136,9°	6,4°	1,00	1,00

TWS = 14 Kts

TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
41,9° (b)	6,72	5,01	19,53	28,6°	21,1°	1,00	0,76
52°	7,56	4,66	19,58	34,3°	24,4°	1,00	0,81
60°	7,96	3,98	19,25	39,0°	26,0°	1,00	0,87
70°	8,31	2,84	18,56	45,1°	27,4°	1,00	0,97
75°	8,44	2,18	18,12	48,3°	25,1°	1,00	1,00
80°	8,48	1,47	17,58	51,6°	20,7°	1,00	1,00
90°	8,38	0,00	16,32	59,1°	13,5°	1,00	1,00
110°	9,06	3,10	13,83	72,0°	23,7°	1,00	1,00
120°	8,76	4,38	12,25	81,7°	16,0°	1,00	1,00
135°	8,26	5,84	10,03	99,4°	11,7°	1,00	1,00
150°	7,58	6,57	8,34	123,0°	8,6°	1,00	1,00
165°	6,96	6,72	7,50	151,1°	6,3°	1,00	1,00
180°	6,67	6,67	7,33	180,0°	5,1°	1,00	1,00
166,4° (r)	6,91	6,72	7,46	153,9°	6,1°	1,00	1,00

TWS = 16 Kts

TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
41,5° (b)	6,82	5,11	21,59	29,4°	22,0°	1,00	0,65
52°	7,69	4,73	21,60	35,7°	25,2°	1,00	0,70
60°	8,07	4,03	21,22	40,8°	26,8°	1,00	0,75
70°	8,43	2,88	20,48	47,2°	28,1°	1,00	0,84
75°	8,60	2,22	20,03	50,5°	28,6°	1,00	0,91
80°	8,75	1,52	19,52	53,8°	29,0°	1,00	0,98
90°	8,77	0,00	18,25	61,3°	18,6°	1,00	1,00
110°	9,30	3,18	15,51	75,7°	26,9°	0,97	0,95
120°	9,27	4,63	13,91	84,8°	18,4°	1,00	1,00
135°	8,71	6,16	11,61	103,0°	12,5°	1,00	1,00
150°	8,09	7,01	9,86	125,8°	9,8°	1,00	1,00
165°	7,59	7,33	8,89	152,2°	6,8°	1,00	1,00
180°	7,30	7,30	8,70	180,0°	5,3°	1,00	1,00
169,7° (r)	7,46	7,34	8,76	160,9°	6,2°	1,00	1,00

TWS = 20 Kts

TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
43,2° (b)	6,88	5,01	25,45	32,6°	25,2°	0,65	0,60
52°	7,69	4,73	25,46	38,2°	27,8°	0,76	0,60
60°	8,14	4,07	25,08	43,7°	28,0°	0,89	0,60
70°	8,55	2,92	24,29	50,7°	29,0°	1,00	0,65
75°	8,74	2,26	23,81	54,2°	29,5°	1,00	0,70
80°	8,92	1,55	23,27	57,8°	29,9°	1,00	0,77
90°	9,26	0,00	22,04	65,1°	30,4°	1,00	0,93
110°	9,66	3,30	19,00	81,5°	27,0°	0,85	0,98
120°	10,09	5,04	17,32	89,7°	26,9°	0,94	1,00
135°	9,64	6,81	14,84	107,7°	15,3°	1,00	1,00
150°	8,95	7,75	13,04	129,9°	11,4°	1,00	1,00
165°	8,49	8,20	12,01	154,5°	8,2°	1,00	1,00
180°	8,26	8,26	11,74	180,0°	5,6°	1,00	1,00
175,2° (r)	8,30	8,27	11,75	171,9°	6,3°	1,00	1,00

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Polar Tables

Boat Name: **Hanse 415**

Sail No:

Sail: **Jib**

Issued On: **16.12.2011 - VPP 2011 1.01**

TWS = 6 Kts

TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
45,5° (b)	4,63	3,25	9,69	25,5°	4,1°	1,00	1,00
52°	5,07	3,12	9,83	28,0°	4,2°	1,00	1,00
60°	5,42	2,71	9,78	31,2°	4,2°	1,00	1,00
70°	5,67	1,94	9,45	35,6°	3,9°	1,00	1,00
75°	5,73	1,48	9,20	38,0°	3,6°	1,00	1,00
80°	5,75	1,00	8,90	40,4°	3,4°	1,00	1,00
90°	5,68	0,00	8,17	45,9°	2,9°	1,00	1,00
110°	5,04	1,72	6,29	61,2°	1,6°	1,00	1,00
120°	4,48	2,24	5,31	73,1°	1,1°	1,00	1,00
135°	3,67	2,59	4,18	96,6°	0,6°	1,00	1,00
150°	3,28	2,84	3,45	121,6°	0,4°	1,00	1,00
165°	3,08	2,97	3,01	149,6°	0,2°	1,00	1,00
180°	2,99	2,99	2,88	180,0°	0,1°	1,00	1,00
174,8° (r)	3,01	3,00	2,89	169,4°	0,1°	1,00	1,00

TWS = 8 Kts

TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
44,0° (b)	5,49	3,95	12,35	25,8°	8,2°	1,00	1,00
52°	6,10	3,75	12,49	29,2°	8,6°	1,00	1,00
60°	6,49	3,25	12,37	32,8°	8,2°	1,00	1,00
70°	6,73	2,30	11,90	37,8°	6,9°	1,00	1,00
75°	6,78	1,76	11,58	40,5°	6,1°	1,00	1,00
80°	6,80	1,18	11,20	43,2°	5,3°	1,00	1,00
90°	6,73	0,00	10,31	49,2°	4,2°	1,00	1,00
110°	6,04	2,07	8,08	65,4°	2,3°	1,00	1,00
120°	5,51	2,76	6,96	76,7°	1,6°	1,00	1,00
135°	4,74	3,35	5,59	98,2°	1,0°	1,00	1,00
150°	4,28	3,71	4,64	122,6°	0,7°	1,00	1,00
165°	4,03	3,90	4,07	150,1°	0,4°	1,00	1,00
180°	3,93	3,93	3,90	180,0°	0,1°	1,00	1,00
175,2° (r)	3,94	3,93	3,91	170,4°	0,2°	1,00	1,00

TWS = 10 Kts

TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
44,2° (b)	6,29	4,50	14,79	26,3°	15,4°	1,00	1,00
52°	6,88	4,24	14,84	29,8°	15,6°	1,00	1,00
60°	7,25	3,62	14,61	34,0°	14,6°	1,00	1,00
70°	7,49	2,56	14,05	39,6°	12,3°	1,00	1,00
75°	7,54	1,95	13,67	42,6°	10,9°	1,00	1,00
80°	7,55	1,31	13,25	45,8°	9,4°	1,00	1,00
90°	7,46	0,00	12,25	52,5°	6,2°	1,00	1,00
110°	6,84	2,34	9,82	69,2°	3,0°	1,00	1,00
120°	6,38	3,19	8,60	80,1°	2,2°	1,00	1,00
135°	5,62	3,98	7,04	100,6°	1,4°	1,00	1,00
150°	5,19	4,50	5,89	123,9°	1,1°	1,00	1,00
165°	4,94	4,77	5,18	150,7°	0,6°	1,00	1,00
180°	4,82	4,82	4,96	180,0°	0,2°	1,00	1,00
176,2° (r)	4,84	4,83	4,97	172,5°	0,3°	1,00	1,00

TWS = 12 Kts

TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
42,9° (b)	6,58	4,82	16,85	26,2°	19,8°	1,00	0,90
52°	7,34	4,52	16,75	30,2°	23,0°	1,00	0,95
60°	7,77	3,88	16,38	34,1°	23,8°	1,00	1,00
70°	8,02	2,74	15,84	40,7°	19,2°	1,00	1,00
75°	8,06	2,09	15,47	44,2°	16,7°	1,00	1,00
80°	8,06	1,40	15,04	47,9°	14,3°	1,00	1,00
90°	7,98	0,00	14,04	55,4°	9,5°	1,00	1,00
110°	7,46	2,55	11,53	72,6°	3,8°	1,00	1,00
120°	7,03	3,52	10,22	83,5°	2,8°	1,00	1,00
135°	6,42	4,54	8,51	102,8°	1,9°	1,00	1,00
150°	5,99	5,19	7,21	125,4°	1,4°	1,00	1,00
165°	5,74	5,54	6,38	151,5°	0,9°	1,00	1,00
180°	5,62	5,62	6,13	180,0°	0,2°	1,00	1,00
177,0° (r)	5,63	5,62	6,13	174,3°	0,4°	1,00	1,00

TWS = 14 Kts

TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
41,9° (b)	6,72	5,01	18,82	26,7°	21,1°	1,00	0,76
52°	7,56	4,66	18,61	31,4°	24,4°	1,00	0,81
60°	7,96	3,98	18,06	35,5°	26,0°	1,00	0,87
70°	8,31	2,84	17,11	41,0°	27,4°	1,00	0,97
75°	8,44	2,18	16,79	44,7°	25,1°	1,00	1,00
80°	8,48	1,47	16,54	49,1°	20,7°	1,00	1,00
90°	8,38	0,00	15,69	57,7°	13,5°	1,00	1,00
110°	7,92	2,71	13,23	75,8°	4,8°	1,00	1,00
120°	7,60	3,80	11,86	86,4°	3,5°	1,00	1,00
135°	7,05	4,99	10,03	105,2°	2,5°	1,00	1,00
150°	6,71	5,81	8,57	127,0°	1,9°	1,00	1,00
165°	6,48	6,26	7,63	152,3°	1,2°	1,00	1,00
180°	6,36	6,36	7,35	180,0°	0,3°	1,00	1,00
177,3° (r)	6,37	6,36	7,35	175,0°	0,5°	1,00	1,00

TWS = 16 Kts

TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
41,5° (b)	6,82	5,11	20,73	27,3°	22,0°	1,00	0,65
52°	7,69	4,73	20,41	32,6°	25,2°	1,00	0,70
60°	8,07	4,03	19,76	37,1°	26,8°	1,00	0,75
70°	8,43	2,88	18,71	42,9°	28,1°	1,00	0,84
75°	8,60	2,22	18,11	46,0°	28,6°	1,00	0,91
80°	8,75	1,52	17,47	49,2°	29,0°	1,00	0,98
90°	8,77	0,00	17,14	59,2°	18,6°	1,00	1,00
110°	8,29	2,83	14,89	78,6°	6,6°	1,00	1,00
120°	8,01	4,00	13,52	89,2°	4,4°	1,00	1,00
135°	7,61	5,38	11,58	107,4°	3,2°	1,00	1,00
150°	7,31	6,33	10,01	128,6°	2,4°	1,00	1,00
165°	7,09	6,85	9,00	153,2°	1,5°	1,00	1,00
180°	6,98	6,98	8,68	180,0°	0,5°	1,00	1,00
178,1° (r)	6,99	6,98	8,68	176,5°	0,6°	1,00	1,00

TWS = 20 Kts

TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
43,2° (b)	6,88	5,01	23,21	29,3°	25,2°	0,65	0,60
52°	7,69	4,73	23,12	34,1°	27,8°	0,76	0,60
60°	8,14	4,07	22,79	39,4°	28,0°	0,89	0,60
70°	8,55	2,92	21,85	46,2°	29,0°	1,00	0,65
75°	8,74	2,26	21,17	49,7°	29,5°	1,00	0,70
80°	8,92	1,55	20,45	53,2°	29,9°	1,00	0,77
90°	9,26	0,00	18,95	60,7°	30,4°	1,00	0,93
110°	9,00	3,08	18,02	82,6°	12,7°	1,00	1,00
120°	8,70	4,35	16,78	93,6°	8,3°	1,00	1,00
135°	8,40	5,94	14,81	111,5°	5,1°	1,00	1,00
150°	8,20	7,10	13,11	131,8°	3,6°	1,00	1,00
165°	8,06	7,79	11,96	155,0°	2,3°	1,00	1,00
180°	7,98	7,98	11,59	180,0°	0,7°	1,00	1,00
178,7° (r)	7,98	7,98	11,59	177,9°	0,9°	1,00	1,00

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Polar Tables

Boat Name: **Hanse 415**

Sail No:

Sail: **Asymmetric Spinnaker on CL**

Issued On: **16.12.2011 - VPP 2011 1.01**

TWS = 6 Kts

TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	4,26	2,13	8,88	35,1°	11,4°	1,00	1,00
70°	5,13	1,76	9,06	37,5°	12,1°	1,00	1,00
75°	5,45	1,41	9,01	39,0°	12,3°	1,00	1,00
80°	5,70	0,99	8,88	40,5°	12,5°	1,00	1,00
90°	5,99	0,00	8,38	44,4°	12,3°	1,00	1,00
110°	5,84	2,00	6,71	55,6°	11,1°	1,00	1,00
120°	5,68	2,84	5,78	62,4°	10,0°	1,00	1,00
135°	4,96	3,50	4,28	80,6°	6,9°	1,00	1,00
150°	4,00	3,46	3,23	112,1°	5,4°	1,00	1,00
165°	3,39	3,27	2,88	147,4°	5,0°	1,00	1,00
180°	3,17	3,17	2,85	180,0°	4,8°	1,00	1,00
141,6° (r)	4,55	3,57	3,72	92,5°	6,1°	1,00	1,00

TWS = 8 Kts

TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	5,44	2,72	11,57	35,4°	14,4°	1,00	1,00
70°	6,41	2,19	11,64	38,3°	15,9°	1,00	1,00
75°	6,73	1,74	11,49	40,1°	16,3°	1,00	1,00
80°	6,94	1,21	11,24	42,2°	16,3°	1,00	1,00
90°	7,14	0,00	10,49	47,1°	15,7°	1,00	1,00
110°	7,06	2,42	8,51	59,5°	12,8°	1,00	1,00
120°	6,91	3,46	7,39	66,8°	11,4°	1,00	1,00
135°	6,11	4,32	5,63	85,5°	8,4°	1,00	1,00
150°	5,13	4,45	4,38	114,5°	6,0°	1,00	1,00
165°	4,44	4,29	3,91	148,0°	5,2°	1,00	1,00
180°	4,15	4,15	3,87	180,0°	4,8°	1,00	1,00
144,3° (r)	5,52	4,48	4,75	102,2°	6,6°	1,00	1,00

TWS = 10 Kts

TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	6,40	3,20	13,98	35,6°	19,3°	1,00	1,00
70°	7,18	2,46	13,49	38,5°	25,2°	0,99	0,98
75°	7,46	1,93	13,18	40,5°	26,0°	0,99	0,98
80°	7,68	1,33	12,80	42,8°	26,6°	0,99	1,00
90°	7,90	0,00	12,12	49,4°	22,1°	1,00	1,00
110°	7,95	2,72	10,12	63,4°	15,4°	1,00	1,00
120°	7,72	3,86	8,89	72,2°	12,5°	1,00	1,00
135°	7,04	4,98	6,97	90,4°	10,0°	1,00	1,00
150°	6,09	5,27	5,62	117,5°	6,7°	1,00	1,00
165°	5,38	5,20	5,02	149,0°	5,5°	1,00	1,00
180°	5,08	5,08	4,95	180,0°	4,9°	1,00	1,00
146,9° (r)	6,30	5,28	5,83	111,1°	7,1°	1,00	1,00

TWS = 12 Kts

TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	6,74	3,37	15,72	36,4°	24,1°	0,95	0,89
70°	7,48	2,56	15,18	40,7°	26,3°	0,94	0,85
75°	7,73	2,00	14,81	43,3°	26,6°	0,94	0,86
80°	7,91	1,37	14,37	46,1°	26,7°	0,95	0,88
90°	8,15	0,00	13,32	52,3°	26,8°	0,96	0,92
110°	8,54	2,92	11,64	67,6°	16,9°	1,00	1,00
120°	8,27	4,13	10,31	77,3°	14,4°	1,00	1,00
135°	7,76	5,48	8,37	95,1°	11,0°	1,00	1,00
150°	6,90	5,98	6,92	120,5°	7,5°	1,00	1,00
165°	6,23	6,02	6,22	150,1°	5,8°	1,00	1,00
180°	5,91	5,91	6,13	180,0°	5,0°	1,00	1,00
158,6° (r)	6,49	6,05	6,42	137,2°	6,4°	1,00	1,00

TWS = 14 Kts

TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	6,93	3,47	17,45	38,0°	24,8°	0,89	0,81
70°	7,66	2,62	16,82	42,9°	26,6°	0,88	0,79
75°	7,88	2,04	16,38	45,9°	26,7°	0,89	0,81
80°	8,03	1,39	15,87	49,1°	26,8°	0,89	0,82
90°	8,32	0,00	14,77	55,7°	26,8°	0,92	0,82
110°	9,06	3,10	12,70	70,2°	23,7°	1,00	1,00
120°	8,76	4,38	11,77	81,3°	16,0°	1,00	1,00
135°	8,26	5,84	9,84	99,6°	11,7°	1,00	1,00
150°	7,58	6,57	8,31	123,4°	8,6°	1,00	1,00
165°	6,96	6,72	7,53	151,3°	6,3°	1,00	1,00
180°	6,67	6,67	7,38	180,0°	5,1°	1,00	1,00
166,4° (r)	6,91	6,72	7,49	154,1°	6,1°	1,00	1,00

TWS = 16 Kts

TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	7,04	3,52	19,12	39,3°	25,6°	0,85	0,72
70°	7,76	2,65	18,42	44,9°	26,7°	0,85	0,72
75°	7,95	2,06	17,92	48,2°	26,8°	0,85	0,74
80°	8,10	1,41	17,36	51,6°	26,9°	0,85	0,76
90°	8,51	0,00	16,28	58,5°	26,6°	0,86	0,80
110°	9,30	3,18	13,76	73,5°	26,9°	0,97	0,95
120°	9,27	4,63	13,16	84,3°	18,4°	1,00	1,00
135°	8,71	6,16	11,36	103,3°	12,5°	1,00	1,00
150°	8,09	7,01	9,79	126,2°	9,8°	1,00	1,00
165°	7,59	7,33	8,92	152,5°	6,8°	1,00	1,00
180°	7,30	7,30	8,75	180,0°	5,3°	1,00	1,00
169,7° (r)	7,46	7,34	8,80	161,1°	6,2°	1,00	1,00

TWS = 20 Kts

TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	-0,01	-0,01	16,70	55,0°	34,5°	0,85	0,60
70°	-0,01	0,00	16,23	66,2°	34,5°	0,85	0,60
75°	-0,01	0,00	16,04	72,0°	34,5°	0,85	0,60
80°	-0,01	0,00	15,91	78,0°	34,5°	0,85	0,60
90°	8,80	0,00	19,36	63,0°	26,9°	0,85	0,61
110°	9,66	3,30	16,49	79,4°	27,0°	0,85	0,98
120°	10,09	5,04	15,15	88,9°	26,9°	0,94	1,00
135°	9,64	6,81	14,34	108,2°	15,3°	1,00	1,00
150°	8,95	7,75	12,91	130,5°	11,4°	1,00	1,00
165°	8,49	8,20	12,03	154,7°	8,2°	1,00	1,00
180°	8,26	8,26	11,80	180,0°	5,6°	1,00	1,00
175,2° (r)	8,30	8,27	11,80	171,9°	6,3°	1,00	1,00