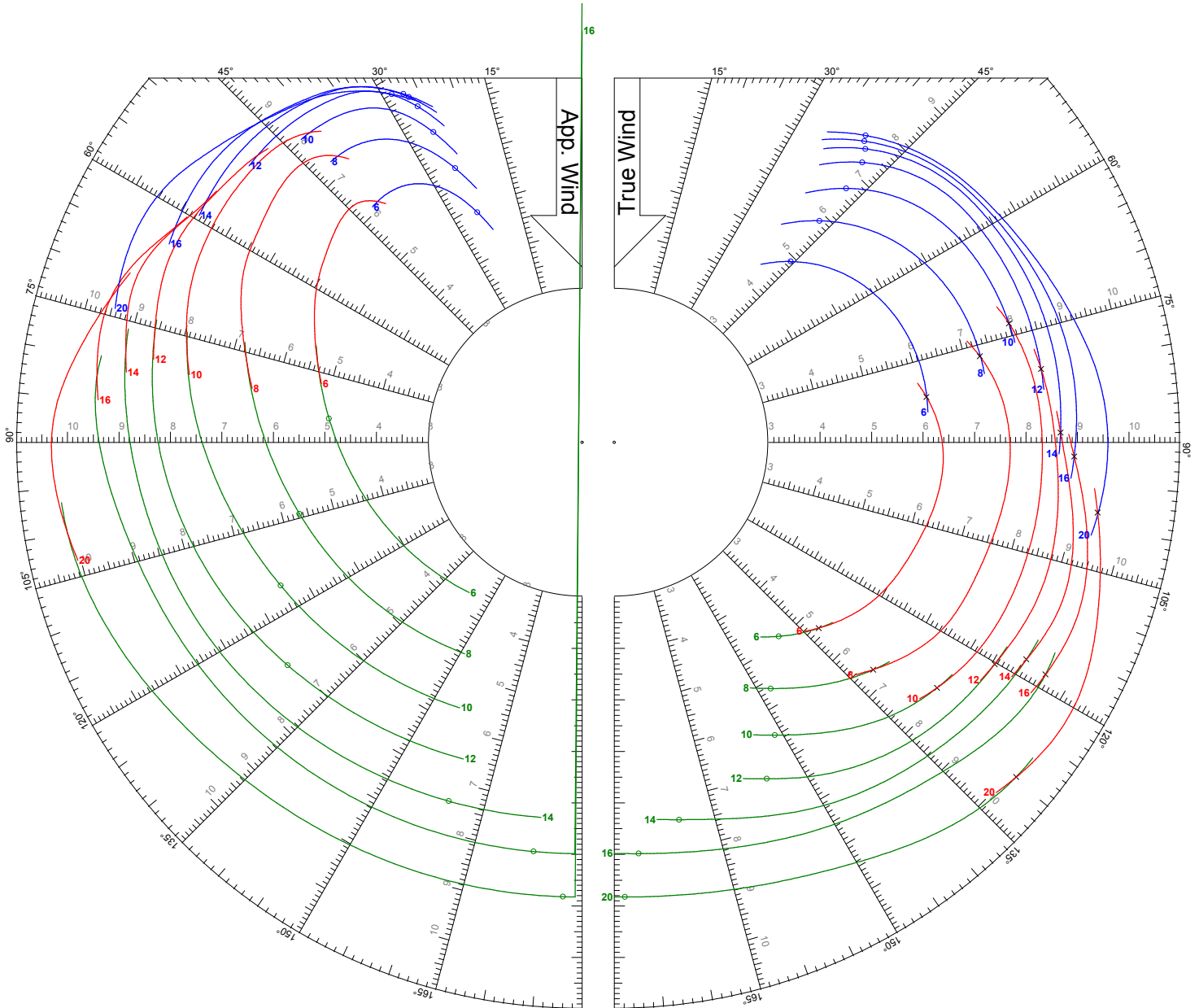




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Speed Guide



Polar Plot for Boat	
Name	SCAMP
Sail Number	B45
Class	Beneteau First 45
Designer	B Farr
Builder	Beneteau yachts
Issued On	10/11/2015 - VPP 2015 1.01

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

Jib

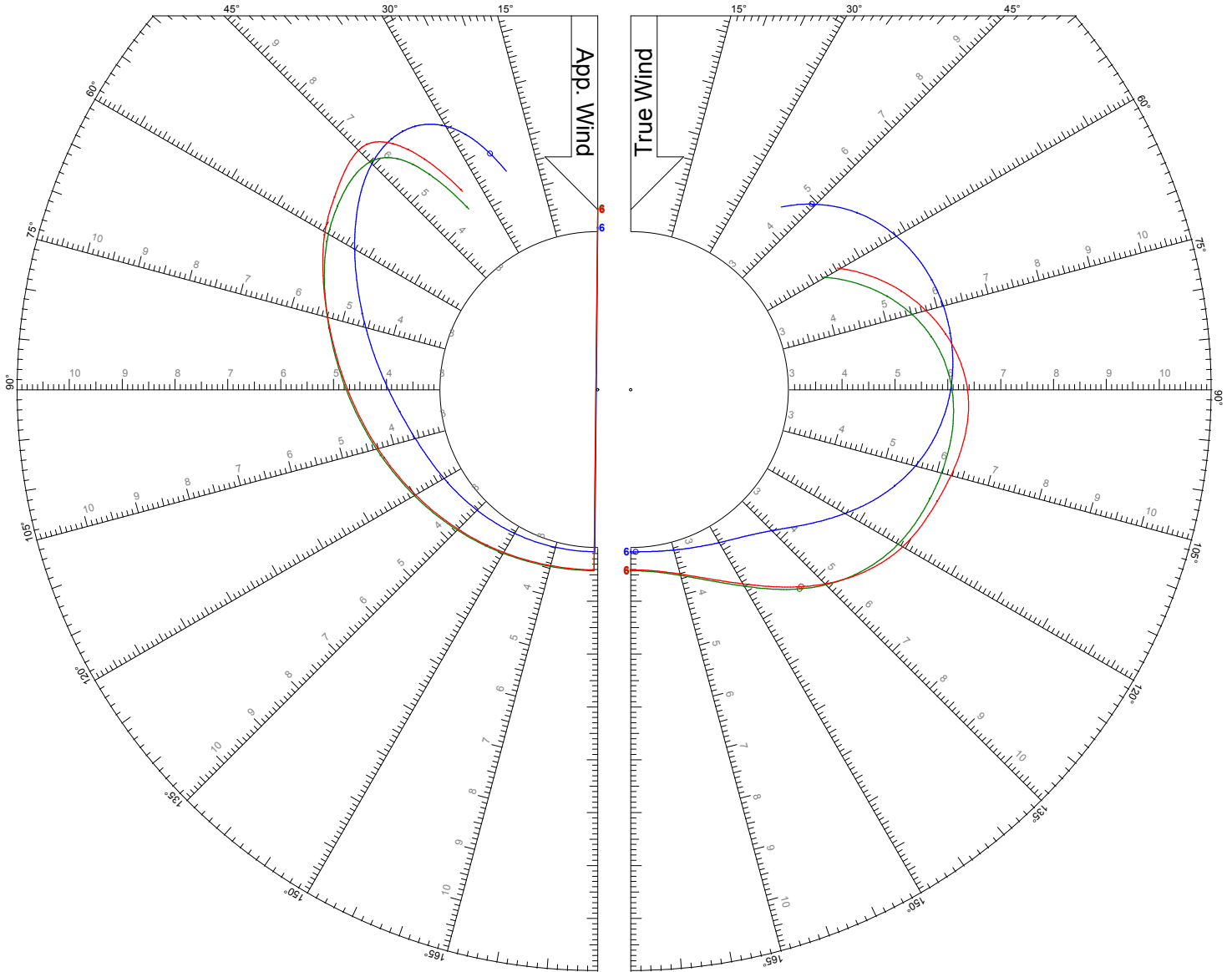
Symmetric Spinnaker

Asymmetric Spinnaker on Pole



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Speed Guide



Polar Plot for Boat	
Name	SCAMP
Sail Number	B45
Class	Beneteau First 45
Designer	B Farr
Builder	Beneteau yachts
Issued On	10/11/2015 - VPP 2015 1.01

TWS: 6 kts

Jib

Symmetric Spinnaker

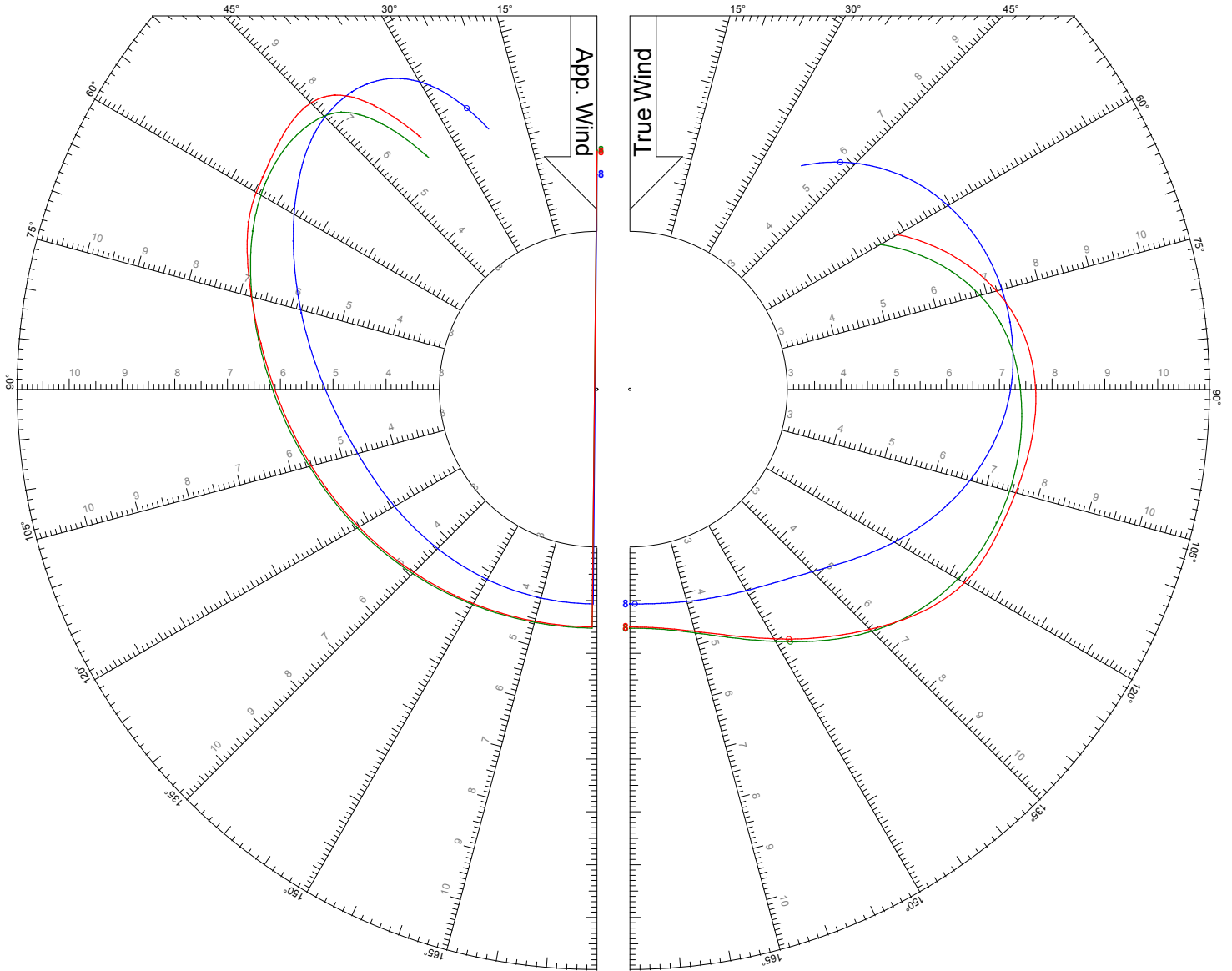
Asymmetric Spinnaker on Pole



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Polar Plot for Boat	
Name	SCAMP
Sail Number	B45
Class	Beneteau First 45
Designer	B Farr
Builder	Beneteau yachts
Issued On	10/11/2015 - VPP 2015 1.01

TWS: 8 kts

Jib

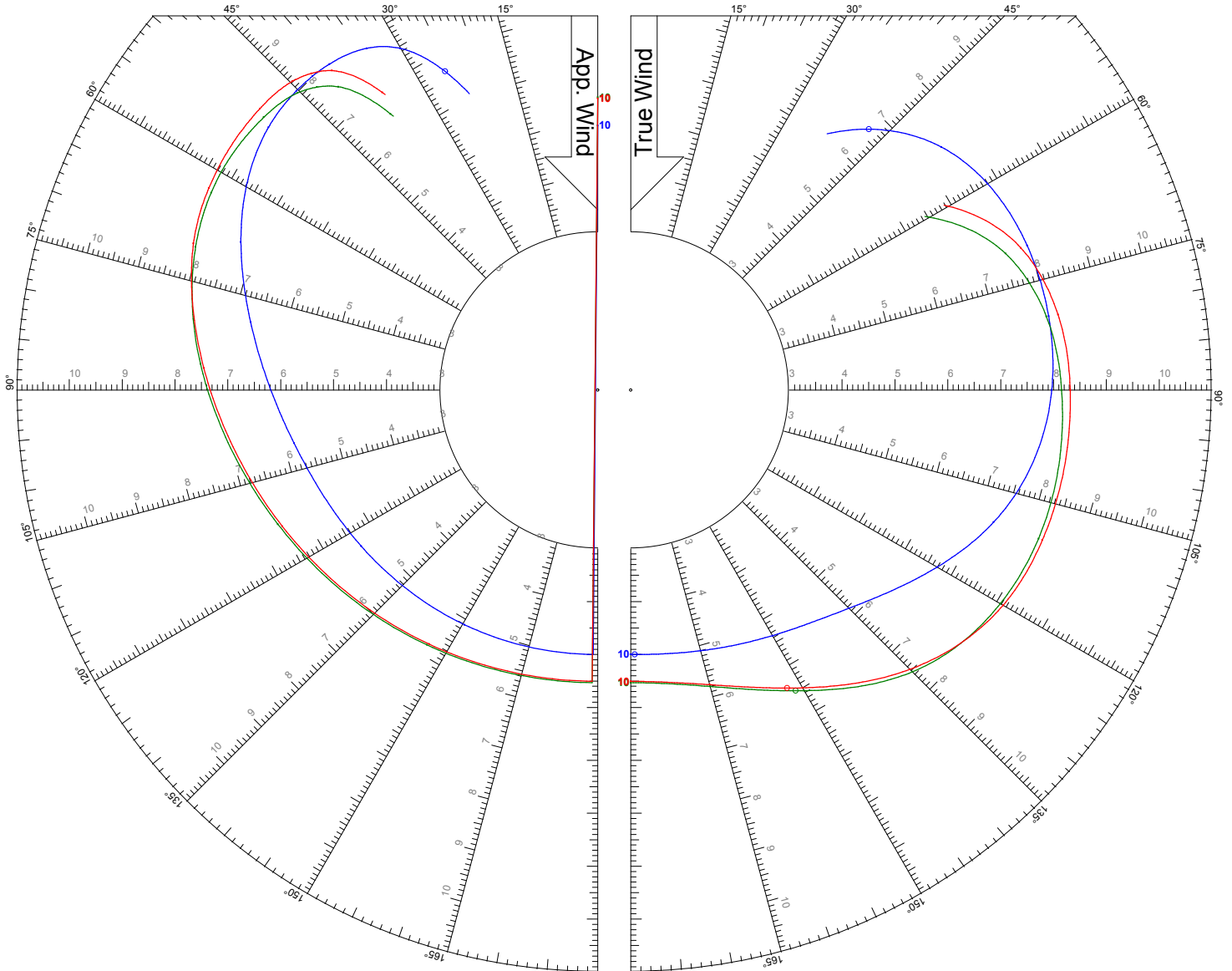
Symmetric Spinnaker

Asymmetric Spinnaker on Pole



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Speed Guide



Polar Plot for Boat	
Name	SCAMP
Sail Number	B45
Class	Beneteau First 45
Designer	B Farr
Builder	Beneteau yachts
Issued On	10/11/2015 - VPP 2015 1.01

TWS: 10 kts

Jib

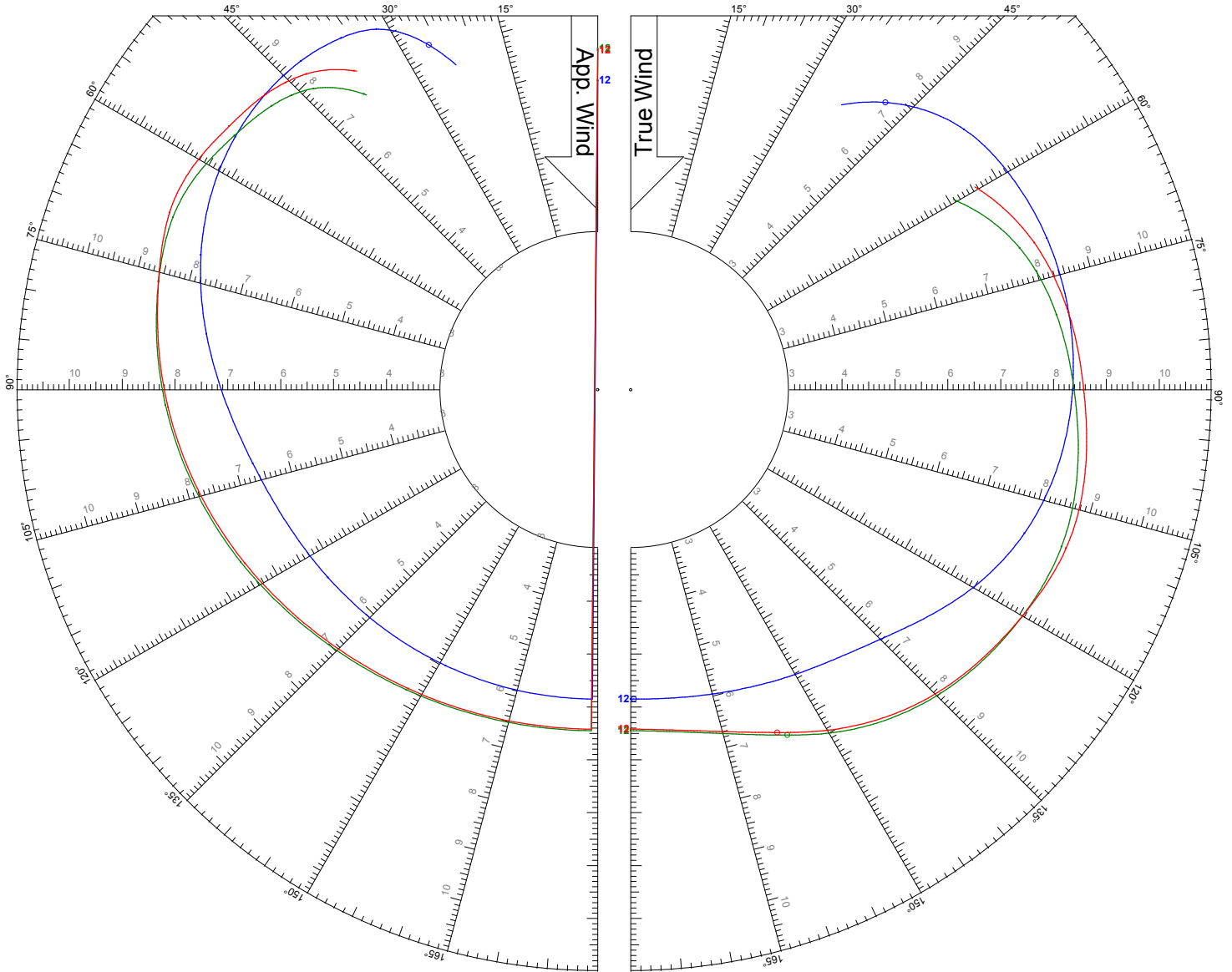
Symmetric Spinnaker

Asymmetric Spinnaker on Pole



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Speed Guide



Polar Plot for Boat	
Name	SCAMP
Sail Number	B45
Class	Beneteau First 45
Designer	B Farr
Builder	Beneteau yachts
Issued On	10/11/2015 - VPP 2015 1.01

TWS: 12 kts

Jib

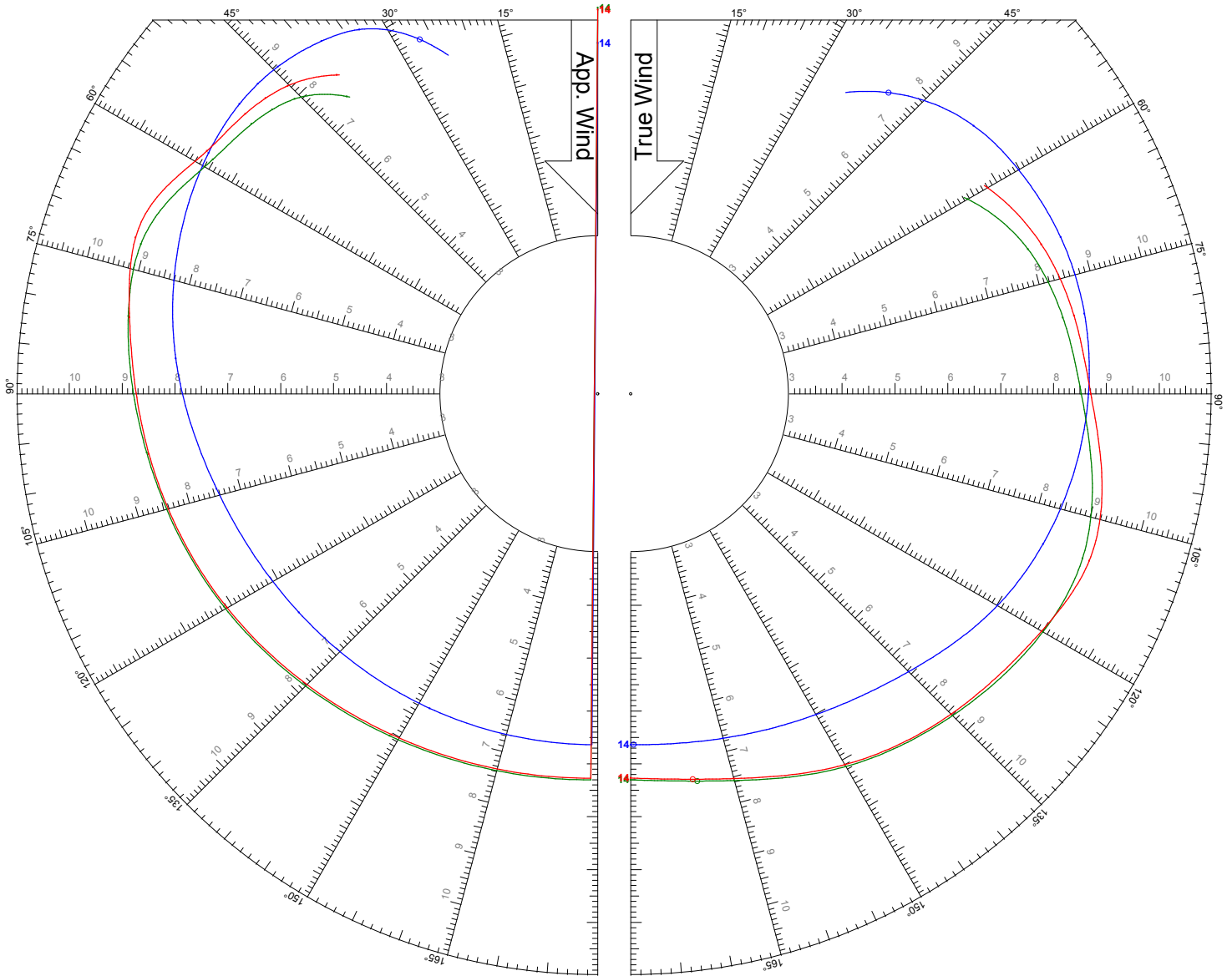
Symmetric Spinnaker

Asymmetric Spinnaker on Pole



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Speed Guide



Polar Plot for Boat	
Name	SCAMP
Sail Number	B45
Class	Beneteau First 45
Designer	B Farr
Builder	Beneteau yachts
Issued On	10/11/2015 - VPP 2015 1.01

TWS: 14 kts

Jib

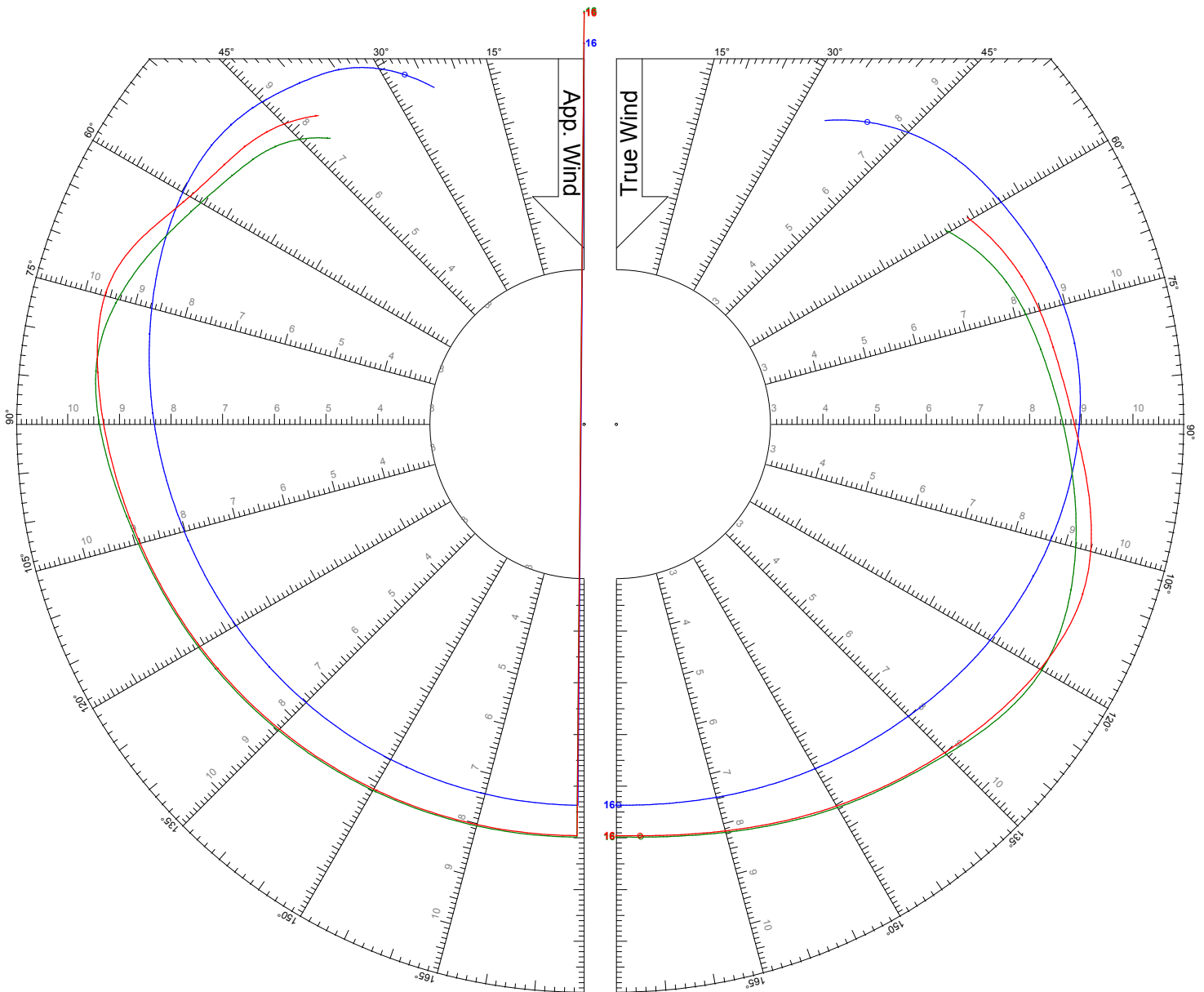
Symmetric Spinnaker

Asymmetric Spinnaker on Pole



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Polar Plot for Boat	
Name	SCAMP
Sail Number	B45
Class	Beneteau First 45
Designer	B Farr
Builder	Beneteau yachts
Issued On	10/11/2015 - VPP 2015 1.01

TWS: 16 kts

Jib

Symmetric Spinnaker

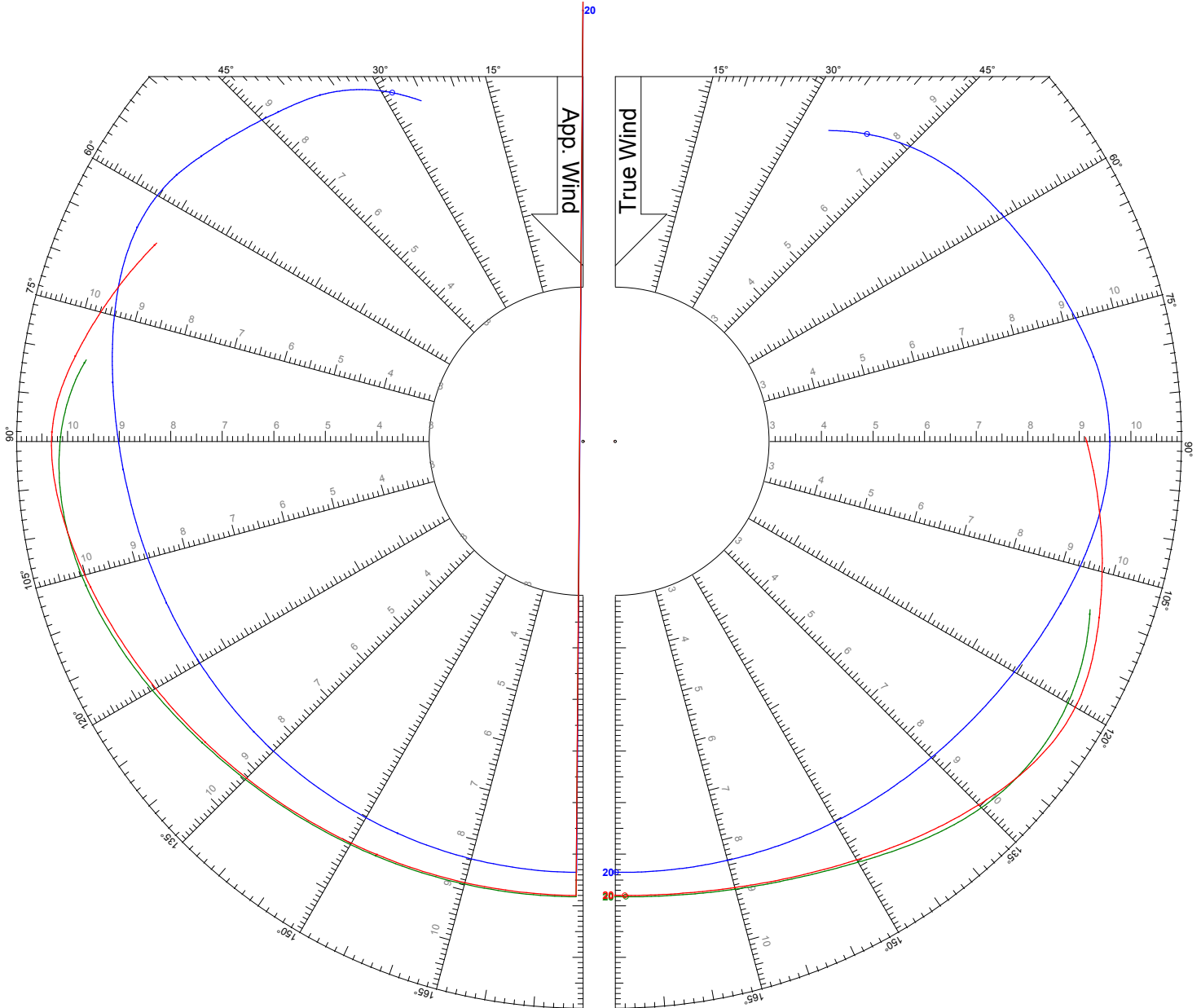
Asymmetric Spinnaker on Pole



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Polar Plot for Boat	
Name	SCAMP
Sail Number	B45
Class	Beneteau First 45
Designer	B Farr
Builder	Beneteau yachts
Issued On	10/11/2015 - VPP 2015 1.01

TWS: 20 kts

Jib

Symmetric Spinnaker

Asymmetric Spinnaker on Pole



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Polar Tables							
Boat Name: SCAMP							
Sail No: B45							
Sail: Best Performance							
Issued On: 10/11/2015 - VPP 2015 1.01							

TWS = 6 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
44.3° (b)	4.91	3.51	10.11	24.5°	3.6°	1.00	0.96
52°	5.44	3.35	10.28	27.4°	3.8°	1.00	0.99
60°	5.81	2.90	10.22	30.5°	3.8°	1.00	1.00
70°	6.06	2.07	9.88	34.8°	3.5°	1.00	1.00
75°	6.12	1.58	9.62	37.1°	3.3°	1.00	1.00
80°	6.14	1.07	9.30	39.4°	3.1°	1.00	1.00
90°	6.37	0.00	8.75	43.3°	12.4°	1.00	1.00
110°	6.17	2.11	6.98	53.8°	11.3°	1.00	1.00
120°	5.94	2.97	5.97	60.5°	10.6°	1.00	1.00
135°	5.22	3.69	4.35	77.1°	8.2°	1.00	1.00
150°	4.29	3.72	3.13	106.8°	6.6°	1.00	1.00
165°	3.63	3.51	2.66	144.3°	6.0°	1.00	1.00
180°	3.43	3.43	2.57	0.0°	5.8°	1.00	1.00
139.7° (r)	4.94	3.77	3.90	84.6°	7.5°	1.00	1.00

TWS = 8 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
42.8° (b)	5.86	4.30	12.93	24.9°	6.3°	1.00	0.96
52°	6.56	4.04	13.10	28.8°	7.0°	1.00	0.99
60°	6.96	3.48	12.97	32.3°	6.8°	1.00	1.00
70°	7.24	2.48	12.49	37.0°	5.6°	1.00	1.00
75°	7.30	1.89	12.14	39.5°	5.1°	1.00	1.00
80°	7.46	1.29	11.85	41.7°	16.0°	1.00	1.00
90°	7.69	0.00	11.10	46.1°	15.5°	1.00	1.00
110°	7.50	2.56	8.90	57.6°	12.8°	1.00	1.00
120°	7.32	3.66	7.68	64.4°	11.6°	1.00	1.00
135°	6.48	4.58	5.72	81.7°	9.9°	1.00	1.00
150°	5.51	4.77	4.24	109.5°	7.2°	1.00	1.00
165°	4.77	4.61	3.61	145.0°	6.2°	1.00	1.00
180°	4.52	4.52	3.48	0.0°	5.8°	1.00	1.00
147.5° (r)	5.67	4.78	4.43	104.2°	7.5°	1.00	1.00

TWS = 10 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
42.4° (b)	6.68	4.93	15.59	25.6°	12.4°	1.00	0.96
52°	7.46	4.59	15.73	30.1°	13.3°	1.00	0.99
60°	7.80	3.90	15.45	34.1°	12.5°	1.00	1.00
70°	7.98	2.73	14.78	39.5°	10.3°	1.00	1.00
75°	8.07	2.09	14.39	42.2°	21.8°	1.00	0.95
80°	8.21	1.43	14.00	44.7°	21.6°	1.00	0.96
90°	8.32	0.00	13.01	50.3°	18.7°	1.00	1.00
110°	8.29	2.84	10.58	62.6°	15.0°	1.00	1.00
120°	8.14	4.07	9.21	70.1°	12.4°	1.00	1.00
135°	7.53	5.33	7.09	86.2°	11.0°	1.00	1.00
150°	6.56	5.68	5.42	112.8°	8.0°	1.00	1.00
165°	5.80	5.60	4.65	146.1°	6.6°	1.00	1.00
180°	5.53	5.53	4.47	0.0°	5.9°	1.00	1.00
151.2° (r)	6.49	5.69	5.32	115.4°	7.9°	1.00	1.00

TWS = 12 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
41.6° (b)	7.26	5.43	18.09	26.1°	19.5°	1.00	0.95
52°	8.00	4.93	18.06	31.6°	19.8°	1.00	0.97
60°	8.24	4.12	17.63	36.1°	19.0°	1.00	1.00
70°	8.38	2.87	16.82	42.1°	15.4°	1.00	1.00
75°	8.41	2.18	16.34	45.2°	13.5°	1.00	1.00
80°	8.42	1.46	15.81	48.4°	11.5°	1.00	1.00
90°	8.57	0.00	14.75	54.5°	22.1°	0.97	0.94
110°	8.77	3.00	12.20	67.5°	16.1°	1.00	1.00
120°	8.56	4.28	10.70	76.2°	13.5°	1.00	1.00
135°	8.19	5.79	8.49	92.0°	11.6°	1.00	1.00
150°	7.50	6.49	6.66	115.7°	9.0°	1.00	1.00
165°	6.73	6.50	5.77	147.4°	6.9°	1.00	1.00
180°	6.45	6.45	5.55	0.0°	6.0°	1.00	1.00
155.6° (r)	7.17	6.53	6.22	127.1°	8.0°	1.00	1.00

TWS = 14 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
40.6° (b)	7.50	5.70	20.29	26.7°	22.3°	1.00	0.84
52°	8.24	5.07	20.14	33.2°	25.3°	1.00	0.92
60°	8.47	4.24	19.66	38.1°	24.2°	1.00	0.95
70°	8.66	2.96	18.81	44.4°	21.5°	1.00	1.00
75°	8.70	2.25	18.30	47.6°	18.7°	1.00	1.00
80°	8.72	1.51	17.73	51.0°	15.9°	1.00	1.00
90°	8.71	0.00	16.49	58.1°	22.3°	0.93	0.86
110°	9.23	3.16	13.89	71.3°	18.3°	1.00	1.00
120°	9.01	4.50	12.29	80.6°	16.2°	1.00	1.00
135°	8.61	6.09	9.98	97.4°	12.3°	1.00	1.00
150°	8.14	7.05	8.05	119.6°	10.2°	1.00	1.00
165°	7.57	7.32	6.97	148.7°	7.4°	1.00	1.00
180°	7.30	7.30	6.70	0.0°	6.1°	1.00	1.00
170.3° (r)	7.43	7.33	6.79	159.6°	6.8°	1.00	1.00

TWS = 16 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
39.7° (b)	7.60	5.85	22.38	27.2°	23.5°	1.00	0.73
52°	8.34	5.14	22.14	34.7°	26.4°	1.00	0.80
60°	8.60	4.30	21.62	39.9°	27.2°	1.00	0.87
70°	8.87	3.03	20.78	46.4°	26.4°	1.00	0.95
75°	8.96	2.32	20.26	49.7°	24.6°	1.00	0.99
80°	9.01	1.56	19.68	53.2°	21.4°	1.00	1.00
90°	8.96	0.00	18.34	60.7°	14.3°	1.00	1.00
110°	9.61	3.29	15.59	74.6°	22.0°	1.00	0.94
120°	9.51	4.76	13.94	83.8°	18.6°	1.00	1.00
135°	9.04	6.39	11.54	101.4°	13.2°	1.00	1.00
150°	8.56	7.41	9.59	123.5°	10.9°	1.00	1.00
165°	8.17	7.89	8.38	150.4°	8.0°	1.00	1.00
180°	7.98	7.98	8.02	0.0°	6.2°	1.00	1.00
176.6° (r)	8.00	7.98	8.03	173.2°	6.5°	1.00	1.00

TWS = 20 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
39.3° (b)	7.70	5.96	26.41	28.7°	25.0°	0.96	0.58
52°	8.43	5.19	26.05	37.2°	27.1°	1.00	0.62
60°	8.70	4.35	25.49	42.8°	28.7°	1.00	0.68
70°	9.06	3.10	24.62	49.8°	30.3°	1.00	0.79
75°	9.24	2.39	24.11	53.3°	30.6°	1.00	0.85
80°	9.43	1.64	23.54	56.8°	30.9°	1.00	0.93
90°	9.59	0.00	22.18	64.4°	24.4°	1.00	1.00
110°	9.99	3.42	19.06	80.5°	22.1°	0.88	0.95
120°	10.30	5.15	17.32	89.0°	22.1°	0.99	0.95
135°	10.04	7.10	14.72	106.2°	16.1°	1.00	1.00
150°	9.42	8.16	12.75	128.3°	12.0°	1.00	1.00
165°	8.98	8.68	11.56	153.4°	9.6°	1.00	1.00
180°	8.83	8.83	11.17	0.0°	6.5°	1.00	1.00
178.7° (r)	8.83	8.83	11.18	177.6°	6.7°	1.00	1.00



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Polar Tables

Boat Name: **SCAMP**

Sail No: **B45**

Sail: **Jib**

Issued On: **10/11/2015 - VPP 2015 1.01**

TWS = 6 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
44.3° (b)	4.91	3.51	10.02	24.3°	3.6°	1.00	0.96
52°	5.44	3.35	10.20	27.1°	3.8°	1.00	0.99
60°	5.81	2.90	10.14	30.2°	3.8°	1.00	1.00
70°	6.06	2.07	9.81	34.4°	3.5°	1.00	1.00
75°	6.12	1.58	9.54	36.7°	3.3°	1.00	1.00
80°	6.14	1.07	9.23	39.1°	3.1°	1.00	1.00
90°	6.05	0.00	8.46	44.3°	2.6°	1.00	1.00
110°	5.32	1.82	6.46	59.3°	1.5°	1.00	1.00
120°	4.68	2.34	5.40	71.4°	1.0°	1.00	1.00
135°	3.77	2.67	4.20	95.6°	0.6°	1.00	1.00
150°	3.34	2.89	3.45	121.1°	0.4°	1.00	1.00
165°	3.14	3.03	2.99	149.3°	0.2°	1.00	1.00
180°	3.07	3.07	2.85	180.0°	0.0°	1.00	1.00
178.2° (r)	3.07	3.07	2.85	176.3°	0.1°	1.00	1.00

TWS = 8 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
42.8° (b)	5.86	4.30	12.80	24.6°	6.3°	1.00	0.96
52°	6.56	4.04	12.97	28.4°	7.0°	1.00	0.99
60°	6.96	3.48	12.83	31.9°	6.8°	1.00	1.00
70°	7.24	2.48	12.37	36.6°	5.6°	1.00	1.00
75°	7.30	1.89	12.03	39.1°	5.1°	1.00	1.00
80°	7.31	1.27	11.63	41.7°	4.6°	1.00	1.00
90°	7.22	0.00	10.68	47.5°	3.8°	1.00	1.00
110°	6.40	2.19	8.28	63.4°	2.1°	1.00	1.00
120°	5.78	2.89	7.07	74.9°	1.5°	1.00	1.00
135°	4.88	3.45	5.62	97.1°	0.9°	1.00	1.00
150°	4.40	3.81	4.63	121.6°	0.6°	1.00	1.00
165°	4.16	4.02	4.02	149.5°	0.4°	1.00	1.00
180°	4.06	4.06	3.82	180.0°	0.1°	1.00	1.00
178.7° (r)	4.07	4.06	3.82	177.2°	0.1°	1.00	1.00

TWS = 10 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
42.4° (b)	6.68	4.93	15.36	24.9°	12.4°	1.00	0.96
52°	7.46	4.59	15.46	29.1°	13.3°	1.00	0.99
60°	7.80	3.90	15.18	33.2°	12.5°	1.00	1.00
70°	7.98	2.73	14.54	38.7°	10.3°	1.00	1.00
75°	8.02	2.08	14.13	41.6°	9.0°	1.00	1.00
80°	8.03	1.39	13.68	44.6°	7.6°	1.00	1.00
90°	7.97	0.00	12.64	50.9°	5.1°	1.00	1.00
110°	7.31	2.50	10.05	66.9°	2.7°	1.00	1.00
120°	6.69	3.35	8.71	78.3°	2.0°	1.00	1.00
135°	5.84	4.13	7.06	99.3°	1.3°	1.00	1.00
150°	5.36	4.64	5.86	122.8°	0.9°	1.00	1.00
165°	5.10	4.93	5.10	150.0°	0.6°	1.00	1.00
180°	5.00	5.00	4.86	180.0°	0.1°	1.00	1.00
179.2° (r)	5.00	5.00	4.86	178.3°	0.2°	1.00	1.00

TWS = 12 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
41.6° (b)	7.26	5.43	17.63	24.6°	19.5°	1.00	0.95
52°	8.00	4.93	17.53	29.7°	19.8°	1.00	0.97
60°	8.24	4.12	17.06	34.3°	19.0°	1.00	1.00
70°	8.38	2.87	16.35	40.7°	15.4°	1.00	1.00
75°	8.41	2.18	15.93	44.0°	13.5°	1.00	1.00
80°	8.42	1.46	15.46	47.4°	11.5°	1.00	1.00
90°	8.36	0.00	14.39	54.5°	7.5°	1.00	1.00
110°	7.93	2.71	11.75	70.7°	3.4°	1.00	1.00
120°	7.48	3.74	10.35	81.3°	2.5°	1.00	1.00
135°	6.68	4.72	8.53	101.4°	1.7°	1.00	1.00
150°	6.22	5.39	7.15	124.2°	1.3°	1.00	1.00
165°	5.96	5.75	6.27	150.8°	0.8°	1.00	1.00
180°	5.85	5.85	5.98	180.0°	0.2°	1.00	1.00
179.4° (r)	5.85	5.85	5.98	178.9°	0.2°	1.00	1.00

TWS = 14 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
40.6° (b)	7.50	5.70	19.66	24.7°	22.3°	1.00	0.84
52°	8.24	5.07	19.23	30.3°	25.3°	1.00	0.92
60°	8.47	4.24	18.69	35.1°	24.2°	1.00	0.95
70°	8.66	2.96	17.89	41.8°	21.5°	1.00	1.00
75°	8.70	2.25	17.52	45.6°	18.7°	1.00	1.00
80°	8.72	1.51	17.09	49.5°	15.9°	1.00	1.00
90°	8.66	0.00	16.07	57.4°	10.6°	1.00	1.00
110°	8.30	2.84	13.42	74.5°	4.1°	1.00	1.00
120°	8.01	4.01	11.98	84.7°	3.1°	1.00	1.00
135°	7.43	5.26	10.02	103.4°	2.2°	1.00	1.00
150°	7.01	6.07	8.49	125.6°	1.7°	1.00	1.00
165°	6.75	6.52	7.49	151.5°	1.1°	1.00	1.00
180°	6.64	6.64	7.16	180.0°	0.3°	1.00	1.00
179.5° (r)	6.64	6.64	7.16	179.1°	0.3°	1.00	1.00

TWS = 16 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
39.7° (b)	7.60	5.85	21.60	25.0°	23.5°	1.00	0.73
52°	8.34	5.14	20.99	31.5°	26.4°	1.00	0.80
60°	8.60	4.30	20.25	36.2°	27.2°	1.00	0.87
70°	8.87	3.03	19.28	42.7°	26.4°	1.00	0.95
75°	8.96	2.32	18.85	46.5°	24.6°	1.00	0.99
80°	9.01	1.56	18.49	50.7°	21.4°	1.00	1.00
90°	8.96	0.00	17.66	59.5°	14.3°	1.00	1.00
110°	8.59	2.94	15.10	77.8°	5.0°	1.00	1.00
120°	8.36	4.18	13.63	88.0°	3.7°	1.00	1.00
135°	7.99	5.65	11.58	105.8°	2.8°	1.00	1.00
150°	7.69	6.66	9.88	127.1°	2.1°	1.00	1.00
165°	7.47	7.22	8.77	152.3°	1.3°	1.00	1.00
180°	7.37	7.37	8.40	180.0°	0.4°	1.00	1.00
179.7° (r)	7.37	7.37	8.40	179.4°	0.4°	1.00	1.00

TWS = 20 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
39.3° (b)	7.70	5.96	25.21	26.1°	25.0°	0.96	0.58
52°	8.43	5.19	24.48	33.7°	27.1°	1.00	0.62
60°	8.70	4.35	23.53	38.7°	28.7°	1.00	0.68
70°	9.06	3.10	22.15	45.0°	30.3°	1.00	0.79
75°	9.24	2.39	21.45	48.4°	30.6°	1.00	0.85
80°	9.43	1.64	20.71	51.9°	30.9°	1.00	0.93
90°	9.59	0.00	20.14	61.6°	24.4°	1.00	1.00
110°	9.19	3.14	18.38	82.3°	9.8°	1.00	1.00
120°	8.94	4.47	16.99	93.1°	6.1°	1.00	1.00
135°	8.67	6.13	14.86	110.8°	4.2°	1.00	1.00
150°	8.51	7.37	13.04	131.0°	3.1°	1.00	1.00
165°	8.40	8.12	11.80	154.4°	2.0°	1.00	1.00
180°	8.35	8.35	11.36	180.0°	0.6°	1.00	1.00
179.9° (r)	8.35	8.35	11.36	179.8°	0.6°	1.00	1.00



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Polar Tables							
Boat Name: SCAMP							
Sail No: B45							
Sail: Symmetric Spinnaker							
Issued On: 10/11/2015 - VPP 2015 1.01							

TWS = 6 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	4.25	2.13	8.95	35.3°	11.5°	1.00	0.97
70°	5.16	1.77	9.16	37.7°	12.1°	1.00	0.97
75°	5.51	1.43	9.13	39.1°	12.3°	1.00	0.98
80°	5.78	1.00	9.00	40.6°	12.5°	1.00	0.98
90°	6.08	0.00	8.51	44.4°	12.5°	1.00	1.00
110°	6.03	2.06	6.86	54.9°	11.5°	1.00	1.00
120°	5.84	2.92	5.89	61.7°	10.8°	1.00	1.00
135°	5.22	3.69	4.37	78.1°	8.2°	1.00	1.00
150°	4.29	3.72	3.20	108.3°	6.6°	1.00	1.00
165°	3.63	3.51	2.76	145.3°	6.0°	1.00	1.00
180°	3.43	3.43	2.68	180.0°	5.8°	1.00	1.00
139.7° (r)	4.94	3.77	3.93	85.9°	7.5°	1.00	1.00

TWS = 8 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	5.48	2.74	11.74	35.6°	13.7°	1.00	0.96
70°	6.50	2.22	11.83	38.4°	15.5°	1.00	0.97
75°	6.87	1.78	11.71	40.0°	15.8°	1.00	0.97
80°	7.14	1.24	11.49	41.9°	16.0°	1.00	0.98
90°	7.40	0.00	10.76	46.5°	15.7°	1.00	1.00
110°	7.39	2.53	8.75	58.1°	13.2°	1.00	1.00
120°	7.18	3.59	7.56	65.7°	11.9°	1.00	1.00
135°	6.48	4.58	5.72	82.7°	9.9°	1.00	1.00
150°	5.51	4.77	4.33	110.9°	7.2°	1.00	1.00
165°	4.77	4.61	3.74	145.9°	6.2°	1.00	1.00
180°	4.52	4.52	3.63	180.0°	5.8°	1.00	1.00
147.5° (r)	5.67	4.78	4.50	105.5°	7.5°	1.00	1.00

TWS = 10 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	6.53	3.26	14.31	35.9°	17.0°	1.00	0.96
70°	7.55	2.58	14.09	38.7°	21.6°	1.00	0.95
75°	7.81	2.02	13.78	40.9°	22.1°	1.00	0.94
80°	7.99	1.39	13.41	43.4°	21.9°	1.00	0.94
90°	8.15	0.00	12.52	49.3°	20.0°	1.00	0.98
110°	8.21	2.81	10.32	62.6°	15.7°	1.00	1.00
120°	8.08	4.04	9.08	70.7°	13.0°	1.00	1.00
135°	7.53	5.33	7.07	87.2°	11.0°	1.00	1.00
150°	6.56	5.68	5.52	114.1°	8.0°	1.00	1.00
165°	5.80	5.60	4.81	147.0°	6.6°	1.00	1.00
180°	5.53	5.53	4.65	180.0°	5.9°	1.00	1.00
151.2° (r)	6.49	5.69	5.43	116.7°	7.9°	1.00	1.00

TWS = 12 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	7.13	3.57	16.30	36.2°	22.4°	0.96	0.91
70°	7.83	2.68	15.84	41.1°	22.4°	0.94	0.84
75°	8.04	2.08	15.46	43.9°	22.4°	0.94	0.85
80°	8.18	1.42	15.00	46.8°	22.3°	0.94	0.86
90°	8.39	0.00	13.94	53.0°	22.3°	0.96	0.90
110°	8.68	2.97	11.81	67.5°	17.2°	1.00	1.00
120°	8.56	4.28	10.48	76.4°	14.9°	1.00	1.00
135°	8.19	5.79	8.46	93.0°	11.6°	1.00	1.00
150°	7.50	6.49	6.77	117.0°	9.0°	1.00	1.00
165°	6.73	6.50	5.96	148.2°	6.9°	1.00	1.00
180°	6.45	6.45	5.77	180.0°	6.0°	1.00	1.00
155.6° (r)	7.17	6.53	6.37	128.3°	8.0°	1.00	1.00

TWS = 14 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	7.36	3.68	18.11	37.8°	22.4°	0.88	0.86
70°	8.00	2.74	17.52	43.4°	22.5°	0.87	0.83
75°	8.18	2.12	17.07	46.5°	22.4°	0.87	0.84
80°	8.30	1.44	16.55	49.7°	22.5°	0.87	0.85
90°	8.53	0.00	15.44	56.5°	22.4°	0.90	0.85
110°	9.10	3.11	13.04	70.9°	21.8°	1.00	0.97
120°	9.01	4.50	11.95	80.8°	16.2°	1.00	1.00
135°	8.61	6.09	9.93	98.4°	12.3°	1.00	1.00
150°	8.14	7.05	8.16	120.9°	10.2°	1.00	1.00
165°	7.57	7.32	7.19	149.4°	7.4°	1.00	1.00
180°	7.30	7.30	6.96	180.0°	6.1°	1.00	1.00
170.3° (r)	7.43	7.33	7.04	160.1°	6.8°	1.00	1.00

TWS = 16 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	7.44	3.72	19.84	39.4°	22.9°	0.85	0.74
70°	8.04	2.75	19.18	45.5°	22.8°	0.85	0.71
75°	8.21	2.12	18.68	48.8°	22.7°	0.85	0.72
80°	8.34	1.45	18.13	52.3°	22.7°	0.85	0.73
90°	8.65	0.00	16.98	59.4°	22.4°	0.85	0.80
110°	9.37	3.20	14.50	74.5°	22.1°	0.96	0.93
120°	9.51	4.76	13.36	83.9°	18.6°	1.00	1.00
135°	9.04	6.39	11.45	102.4°	13.2°	1.00	1.00
150°	8.56	7.41	9.71	124.7°	10.9°	1.00	1.00
165°	8.17	7.89	8.64	151.1°	8.0°	1.00	1.00
180°	7.98	7.98	8.31	180.0°	6.2°	1.00	1.00
176.6° (r)	8.00	7.98	8.32	173.4°	6.5°	1.00	1.00

TWS = 20 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	-0.01	-0.01	18.39	57.6°	24.4°	0.85	0.60
70°	-0.01	0.00	18.15	68.2°	24.4°	0.85	0.60
75°	-0.01	0.00	18.06	73.6°	24.4°	0.85	0.60
80°	-0.01	0.00	18.00	79.1°	24.4°	0.85	0.60
90°	-0.01	0.00	17.94	90.0°	24.4°	0.85	0.60
110°	9.79	3.35	17.46	80.0°	22.2°	0.85	0.93
120°	10.14	5.07	16.07	89.5°	22.1°	0.95	0.94
135°	10.04	7.10	14.42	107.3°	16.1°	1.00	1.00
150°	9.42	8.16	12.87	129.5°	12.0°	1.00	1.00
165°	8.98	8.68	11.86	154.0°	9.6°	1.00	1.00
180°	8.83	8.83	11.54	180.0°	6.5°	1.00	1.00
178.7° (r)	8.83	8.83	11.54	177.6°	6.7°	1.00	1.00



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Polar Tables							
Boat Name: SCAMP							
Sail No: B45							
Sail: Asymmetric Spinnaker on CL							
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TWS = 6 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	4.40	2.20	9.07	34.8°	11.3°	1.00	0.98
70°	5.27	1.80	9.25	37.3°	11.8°	1.00	0.99
75°	5.60	1.45	9.20	38.7°	12.0°	1.00	0.99
80°	5.86	1.02	9.07	40.3°	12.2°	1.00	1.00
90°	6.16	0.00	8.57	44.1°	12.1°	1.00	1.00
110°	5.99	2.05	6.84	55.2°	11.1°	1.00	1.00
120°	5.82	2.91	5.89	61.9°	10.3°	1.00	1.00
135°	5.07	3.59	4.34	80.0°	7.7°	1.00	1.00
150°	4.12	3.56	3.25	111.1°	6.4°	1.00	1.00
165°	3.41	3.30	2.94	147.7°	6.0°	1.00	1.00
180°	3.13	3.13	2.98	180.0°	5.8°	1.00	1.00
142.2° (r)	4.63	3.66	3.72	93.0°	6.9°	1.00	1.00

TWS = 8 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	5.65	2.82	11.88	35.2°	13.1°	1.00	0.98
70°	6.62	2.26	11.93	38.1°	14.9°	1.00	0.98
75°	6.98	1.81	11.81	39.8°	15.3°	1.00	0.99
80°	7.24	1.26	11.57	41.7°	15.5°	1.00	1.00
90°	7.47	0.00	10.83	46.4°	14.9°	1.00	1.00
110°	7.35	2.51	8.74	58.5°	12.5°	1.00	1.00
120°	7.19	3.59	7.57	65.6°	11.4°	1.00	1.00
135°	6.31	4.46	5.71	84.4°	9.1°	1.00	1.00
150°	5.30	4.59	4.40	113.4°	6.9°	1.00	1.00
165°	4.50	4.34	3.97	148.1°	6.2°	1.00	1.00
180°	4.15	4.15	4.00	180.0°	5.9°	1.00	1.00
144.5° (r)	5.69	4.64	4.78	101.3°	7.5°	1.00	1.00

TWS = 10 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	6.71	3.35	14.47	35.6°	16.3°	1.00	0.97
70°	7.70	2.63	14.33	38.9°	18.6°	1.00	0.97
75°	7.95	2.06	14.00	41.0°	19.6°	1.00	0.97
80°	8.09	1.41	13.61	43.6°	19.3°	1.00	0.98
90°	8.19	0.00	12.67	49.7°	17.2°	1.00	1.00
110°	8.21	2.81	10.37	62.8°	14.5°	1.00	1.00
120°	8.05	4.02	9.09	70.9°	12.2°	1.00	1.00
135°	7.37	5.21	7.07	88.5°	10.5°	1.00	1.00
150°	6.32	5.47	5.62	116.3°	7.6°	1.00	1.00
165°	5.48	5.29	5.08	149.0°	6.5°	1.00	1.00
180°	5.09	5.09	5.09	180.0°	6.1°	1.00	1.00
147.1° (r)	6.53	5.48	5.83	110.2°	7.9°	1.00	1.00

TWS = 12 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	7.47	3.73	16.61	35.6°	22.2°	0.99	0.93
70°	8.06	2.76	16.04	40.6°	22.3°	0.96	0.89
75°	8.23	2.13	15.62	43.4°	22.3°	0.96	0.90
80°	8.36	1.45	15.15	46.4°	22.2°	0.97	0.92
90°	8.52	0.00	14.06	52.7°	22.2°	0.99	0.93
110°	8.69	2.97	11.89	67.6°	15.8°	1.00	1.00
120°	8.49	4.24	10.54	76.9°	13.2°	1.00	1.00
135°	8.08	5.72	8.47	93.6°	11.1°	1.00	1.00
150°	7.24	6.27	6.89	118.9°	8.4°	1.00	1.00
165°	6.36	6.14	6.28	150.0°	6.8°	1.00	1.00
180°	5.95	5.95	6.26	180.0°	6.3°	1.00	1.00
153.1° (r)	7.04	6.28	6.69	125.1°	7.9°	1.00	1.00

TWS = 14 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	7.69	3.84	18.42	37.3°	22.4°	0.92	0.85
70°	8.21	2.81	17.73	43.0°	22.4°	0.90	0.82
75°	8.35	2.16	17.27	46.2°	22.1°	0.91	0.83
80°	8.45	1.47	16.75	49.5°	22.1°	0.92	0.83
90°	8.66	0.00	15.58	56.3°	22.2°	0.94	0.86
110°	9.12	3.12	13.41	71.4°	17.3°	1.00	1.00
120°	8.89	4.44	12.00	81.4°	15.1°	1.00	1.00
135°	8.51	6.02	9.97	98.9°	11.7°	1.00	1.00
150°	7.95	6.88	8.27	121.9°	9.4°	1.00	1.00
165°	7.17	6.93	7.53	151.0°	7.3°	1.00	1.00
180°	6.74	6.74	7.50	180.0°	6.5°	1.00	1.00
157.6° (r)	7.57	7.00	7.76	136.1°	8.1°	1.00	1.00

TWS = 16 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	7.82	3.91	20.16	38.8°	22.6°	0.85	0.81
70°	8.30	2.84	19.38	45.0°	22.4°	0.85	0.80
75°	8.43	2.18	18.85	48.4°	22.4°	0.85	0.82
80°	8.53	1.48	18.27	51.9°	22.3°	0.85	0.84
90°	8.83	0.00	17.13	59.0°	22.2°	0.88	0.85
110°	9.53	3.26	14.63	74.1°	21.8°	1.00	0.97
120°	9.36	4.68	13.52	84.7°	16.3°	1.00	1.00
135°	8.89	6.29	11.52	103.0°	12.3°	1.00	1.00
150°	8.39	7.27	9.81	125.4°	10.4°	1.00	1.00
165°	7.85	7.58	8.91	152.1°	7.8°	1.00	1.00
180°	7.47	7.47	8.81	180.0°	6.8°	1.00	1.00
164.6° (r)	7.86	7.58	8.92	151.4°	7.8°	1.00	1.00

TWS = 20 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	-0.01	-0.01	18.38	57.7°	24.4°	0.85	0.60
70°	-0.01	0.00	18.14	68.2°	24.4°	0.85	0.60
75°	-0.01	0.00	18.05	73.6°	24.4°	0.85	0.60
80°	-0.01	0.00	17.99	79.1°	24.4°	0.85	0.60
90°	9.10	0.00	20.39	63.5°	22.4°	0.85	0.69
110°	9.91	3.39	17.58	79.8°	22.2°	0.90	0.93
120°	10.29	5.15	16.19	89.2°	22.0°	1.00	0.95
135°	9.79	6.93	14.60	108.1°	14.6°	1.00	1.00
150°	9.15	7.92	13.05	130.3°	11.5°	1.00	1.00
165°	8.64	8.35	12.16	154.7°	9.3°	1.00	1.00
180°	8.41	8.41	11.93	180.0°	7.6°	1.00	1.00
175.5° (r)	8.45	8.43	11.93	172.4°	7.9°	1.00	1.00



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Polar Tables							
Boat Name: SCAMP							
Sail No: B45							
Sail: Asymmetric Spinnaker on Pole							
Issued On: 10/11/2015 - VPP 2015 1.01							

TWS = 6 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	4.59	2.29	9.22	34.1°	11.4°	1.00	0.98
70°	5.45	1.86	9.39	36.6°	12.0°	1.00	0.99
75°	5.79	1.50	9.34	38.0°	12.3°	1.00	1.00
80°	6.05	1.05	9.21	39.5°	12.5°	1.00	1.00
90°	6.37	0.00	8.72	43.0°	12.4°	1.00	1.00
110°	6.17	2.11	6.95	54.0°	11.3°	1.00	1.00
120°	5.94	2.97	5.94	60.9°	10.6°	1.00	1.00
135°	5.19	3.67	4.36	78.4°	7.9°	1.00	1.00
150°	4.24	3.67	3.21	109.1°	6.5°	1.00	1.00
165°	3.61	3.49	2.78	145.5°	6.0°	1.00	1.00
180°	3.41	3.41	2.70	180.0°	5.8°	1.00	1.00
139.1° (r)	4.93	3.72	3.98	85.5°	7.4°	1.00	1.00

TWS = 8 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	5.86	2.93	12.04	34.6°	13.5°	1.00	0.98
70°	6.83	2.34	12.09	37.4°	15.4°	1.00	0.99
75°	7.19	1.86	11.96	39.0°	15.8°	1.00	0.99
80°	7.46	1.29	11.72	40.9°	16.0°	1.00	1.00
90°	7.69	0.00	10.96	45.4°	15.5°	1.00	1.00
110°	7.50	2.56	8.81	57.6°	12.8°	1.00	1.00
120°	7.32	3.66	7.62	64.7°	11.6°	1.00	1.00
135°	6.43	4.55	5.72	83.2°	9.3°	1.00	1.00
150°	5.45	4.72	4.34	111.6°	7.1°	1.00	1.00
165°	4.74	4.58	3.76	146.1°	6.2°	1.00	1.00
180°	4.50	4.50	3.64	180.0°	5.8°	1.00	1.00
147.5° (r)	5.61	4.73	4.52	106.1°	7.3°	1.00	1.00

TWS = 10 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	6.94	3.47	14.65	35.0°	16.8°	1.00	0.98
70°	7.86	2.69	14.36	38.1°	21.0°	1.00	0.96
75°	8.07	2.09	14.00	40.2°	21.8°	1.00	0.95
80°	8.21	1.43	13.58	42.8°	21.6°	1.00	0.96
90°	8.32	0.00	12.68	49.0°	18.7°	1.00	1.00
110°	8.29	2.84	10.39	62.3°	15.0°	1.00	1.00
120°	8.14	4.07	9.12	70.4°	12.4°	1.00	1.00
135°	7.47	5.28	7.07	87.7°	10.6°	1.00	1.00
150°	6.50	5.63	5.54	114.6°	7.8°	1.00	1.00
165°	5.77	5.57	4.83	147.2°	6.5°	1.00	1.00
180°	5.51	5.51	4.67	180.0°	5.9°	1.00	1.00
152.3° (r)	6.36	5.63	5.38	119.4°	7.5°	1.00	1.00

TWS = 12 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	7.59	3.80	16.68	35.3°	22.3°	0.97	0.93
70°	8.13	2.78	16.07	40.5°	22.2°	0.94	0.85
75°	8.29	2.15	15.65	43.3°	22.2°	0.94	0.86
80°	8.41	1.46	15.17	46.2°	22.2°	0.95	0.88
90°	8.57	0.00	14.07	52.5°	22.1°	0.97	0.94
110°	8.77	3.00	11.90	67.2°	16.1°	1.00	1.00
120°	8.56	4.28	10.54	76.4°	13.5°	1.00	1.00
135°	8.14	5.76	8.47	93.2°	11.3°	1.00	1.00
150°	7.44	6.44	6.79	117.4°	8.8°	1.00	1.00
165°	6.69	6.46	5.99	148.4°	6.9°	1.00	1.00
180°	6.42	6.42	5.79	180.0°	6.0°	1.00	1.00
156.9° (r)	7.05	6.48	6.33	131.3°	7.7°	1.00	1.00

TWS = 14 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	7.80	3.90	18.48	37.0°	22.4°	0.90	0.83
70°	8.27	2.83	17.76	42.9°	22.2°	0.89	0.80
75°	8.41	2.18	17.28	46.0°	22.2°	0.90	0.81
80°	8.52	1.48	16.75	49.2°	22.2°	0.90	0.83
90°	8.71	0.00	15.58	56.0°	22.3°	0.93	0.86
110°	9.23	3.16	13.37	70.8°	18.3°	1.00	1.00
120°	8.98	4.49	11.99	81.0°	15.4°	1.00	1.00
135°	8.57	6.06	9.95	98.6°	11.9°	1.00	1.00
150°	8.10	7.01	8.18	121.1°	9.9°	1.00	1.00
165°	7.53	7.28	7.22	149.6°	7.4°	1.00	1.00
180°	7.27	7.27	6.98	180.0°	6.1°	1.00	1.00
170.8° (r)	7.38	7.29	7.05	161.4°	6.7°	1.00	1.00

TWS = 16 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	7.91	3.96	20.22	38.6°	22.6°	0.85	0.75
70°	8.35	2.86	19.42	44.9°	22.4°	0.85	0.74
75°	8.49	2.20	18.88	48.3°	22.4°	0.85	0.77
80°	8.59	1.49	18.30	51.8°	22.4°	0.85	0.80
90°	8.87	0.00	17.15	58.8°	22.1°	0.87	0.83
110°	9.61	3.29	14.63	73.8°	22.0°	1.00	0.94
120°	9.47	4.74	13.50	84.2°	16.7°	1.00	1.00
135°	8.98	6.35	11.48	102.6°	12.6°	1.00	1.00
150°	8.52	7.38	9.73	124.8°	10.7°	1.00	1.00
165°	8.14	7.86	8.65	151.2°	7.9°	1.00	1.00
180°	7.96	7.96	8.33	180.0°	6.2°	1.00	1.00
176.7° (r)	7.97	7.96	8.34	173.6°	6.5°	1.00	1.00

TWS = 20 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	-0.01	-0.01	18.19	57.3°	26.0°	0.85	0.60
70°	-0.01	0.00	17.92	68.0°	26.0°	0.85	0.60
75°	-0.01	0.00	17.81	73.4°	26.0°	0.85	0.60
80°	-0.01	0.00	17.74	78.9°	26.0°	0.85	0.60
90°	9.14	0.00	20.41	63.4°	22.4°	0.85	0.66
110°	9.99	3.42	17.56	79.5°	22.1°	0.88	0.95
120°	10.30	5.15	16.14	89.1°	22.1°	0.99	0.95
135°	9.96	7.05	14.49	107.5°	15.4°	1.00	1.00
150°	9.37	8.11	12.90	129.6°	11.8°	1.00	1.00
165°	8.95	8.65	11.88	154.1°	9.4°	1.00	1.00
180°	8.80	8.80	11.55	180.0°	6.5°	1.00	1.00
178.8° (r)	8.80	8.80	11.55	177.9°	6.7°	1.00	1.00