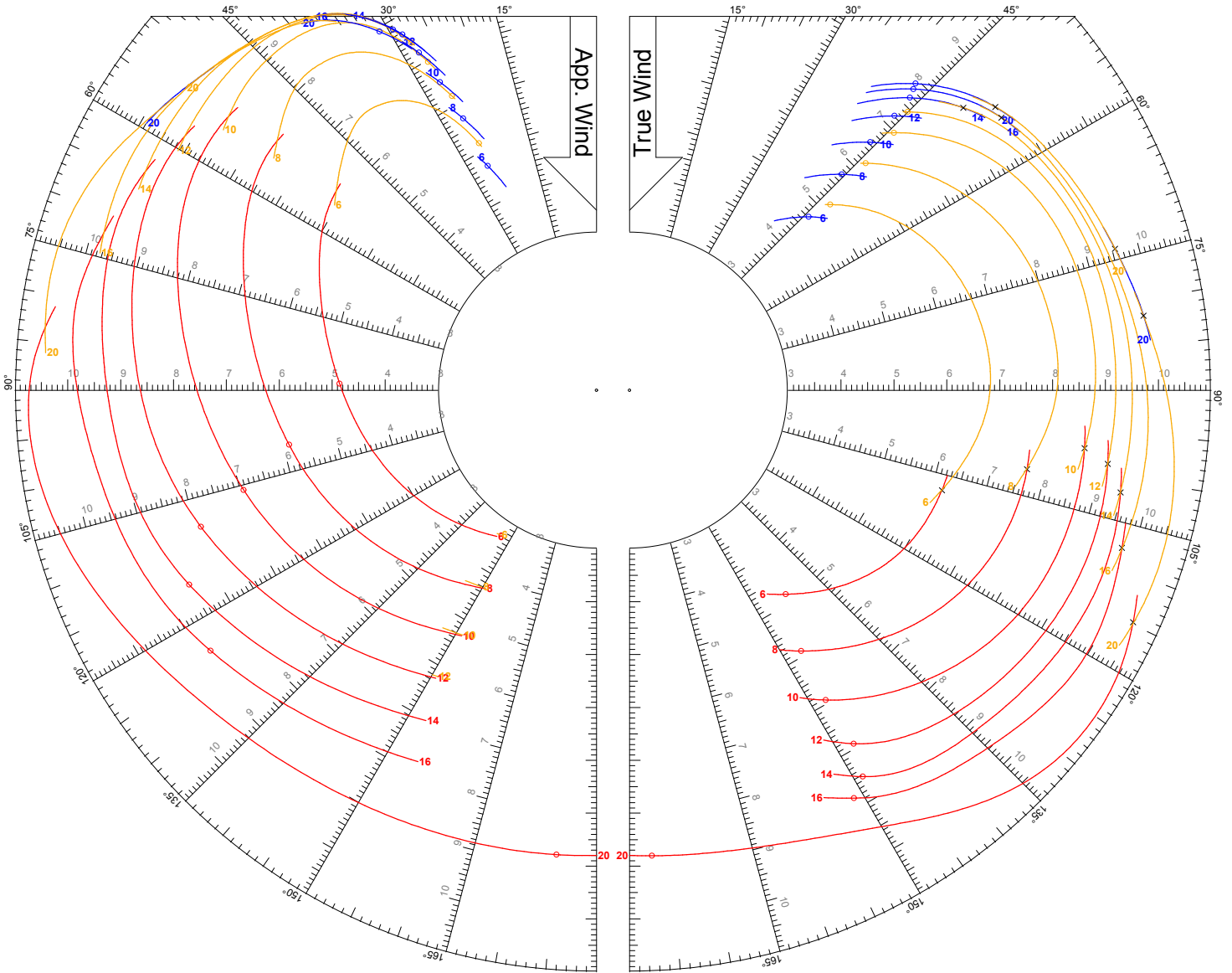




World Leader in Rating Technology



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

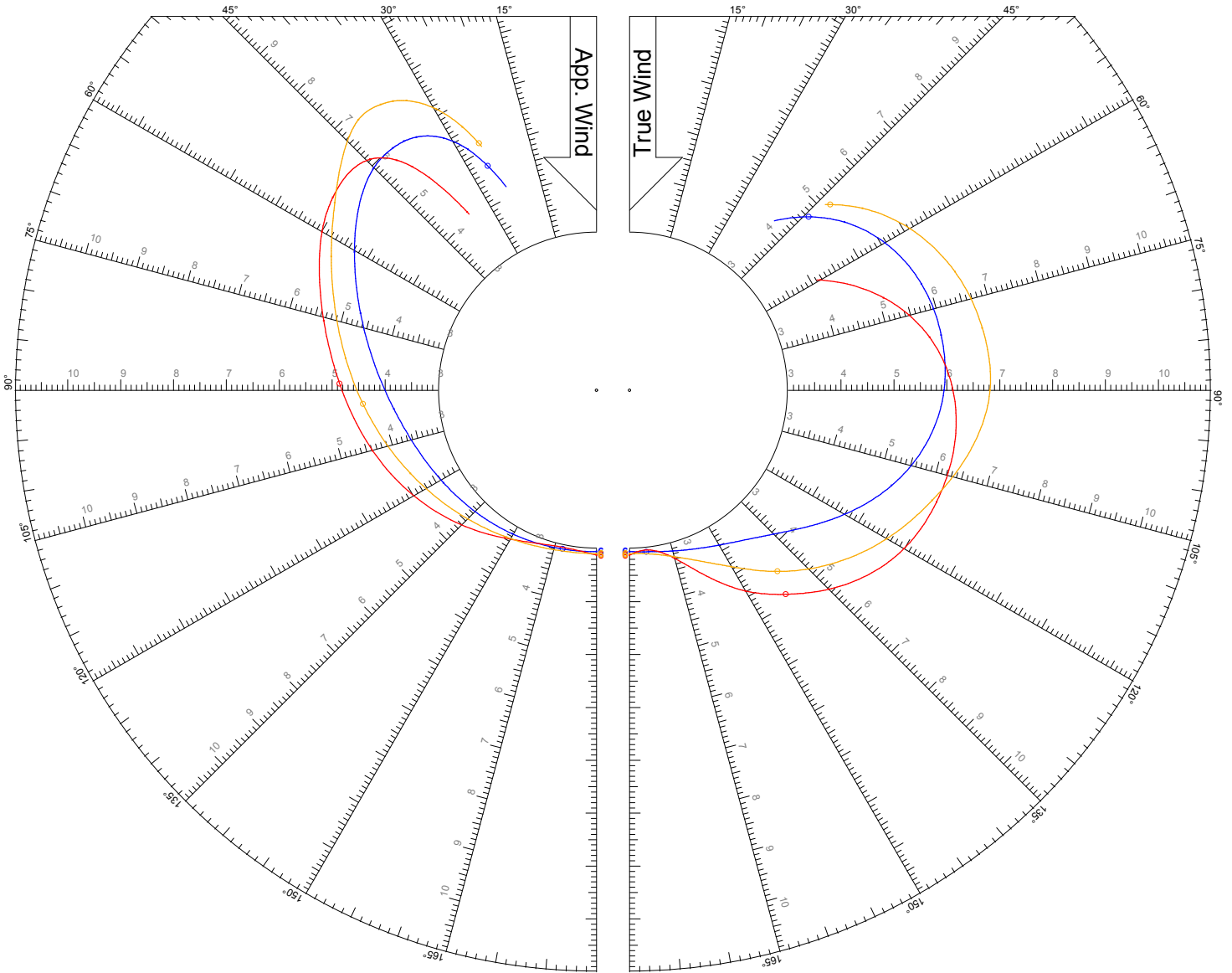
Jib

Asymmetric Spinnaker on Centerline

Code Zero



World Leader in Rating Technology



TWS: 6 kts

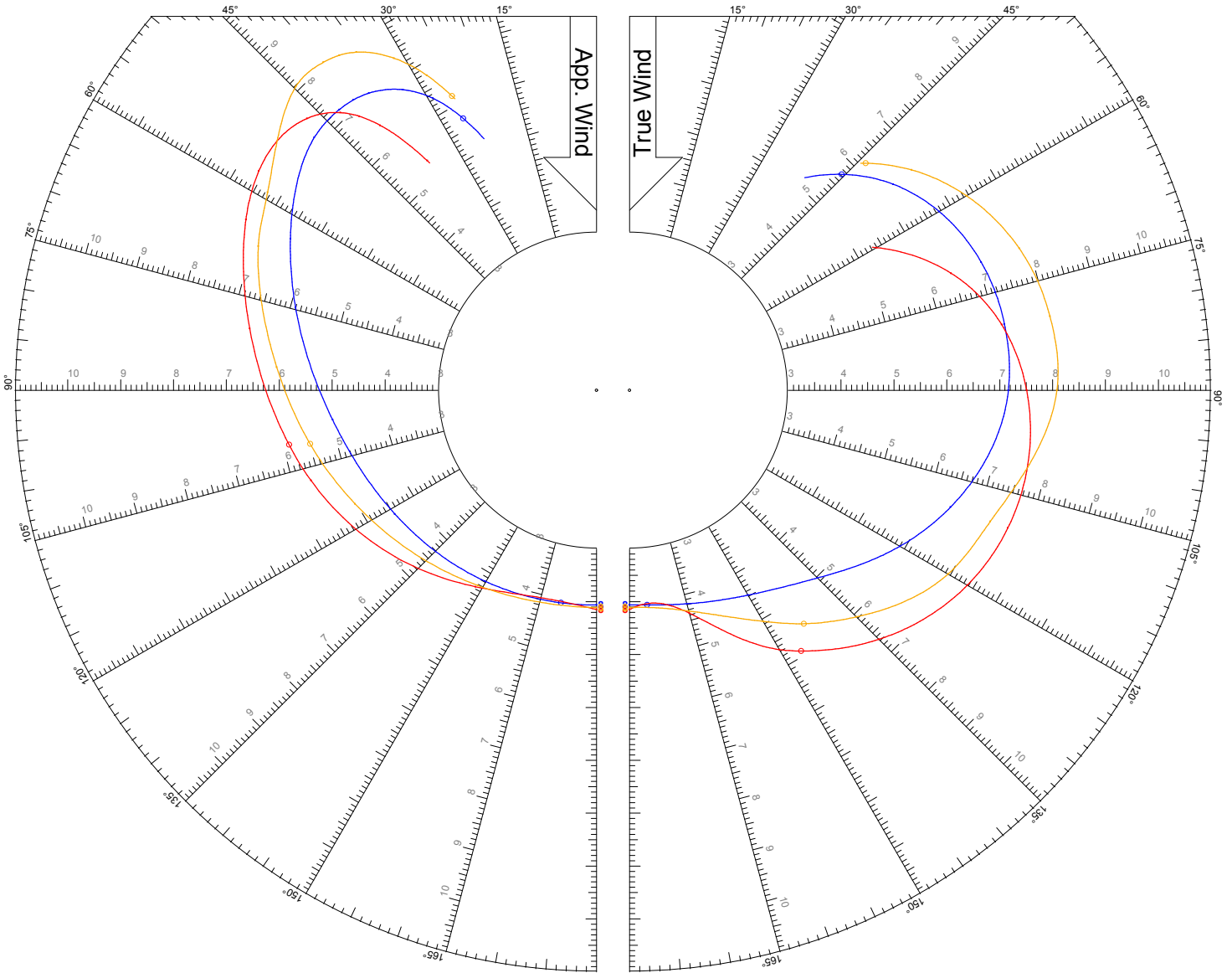
Jib

Asymmetric Spinnaker on Centerline

Code Zero



World Leader in Rating Technology



TWS: 8 kts

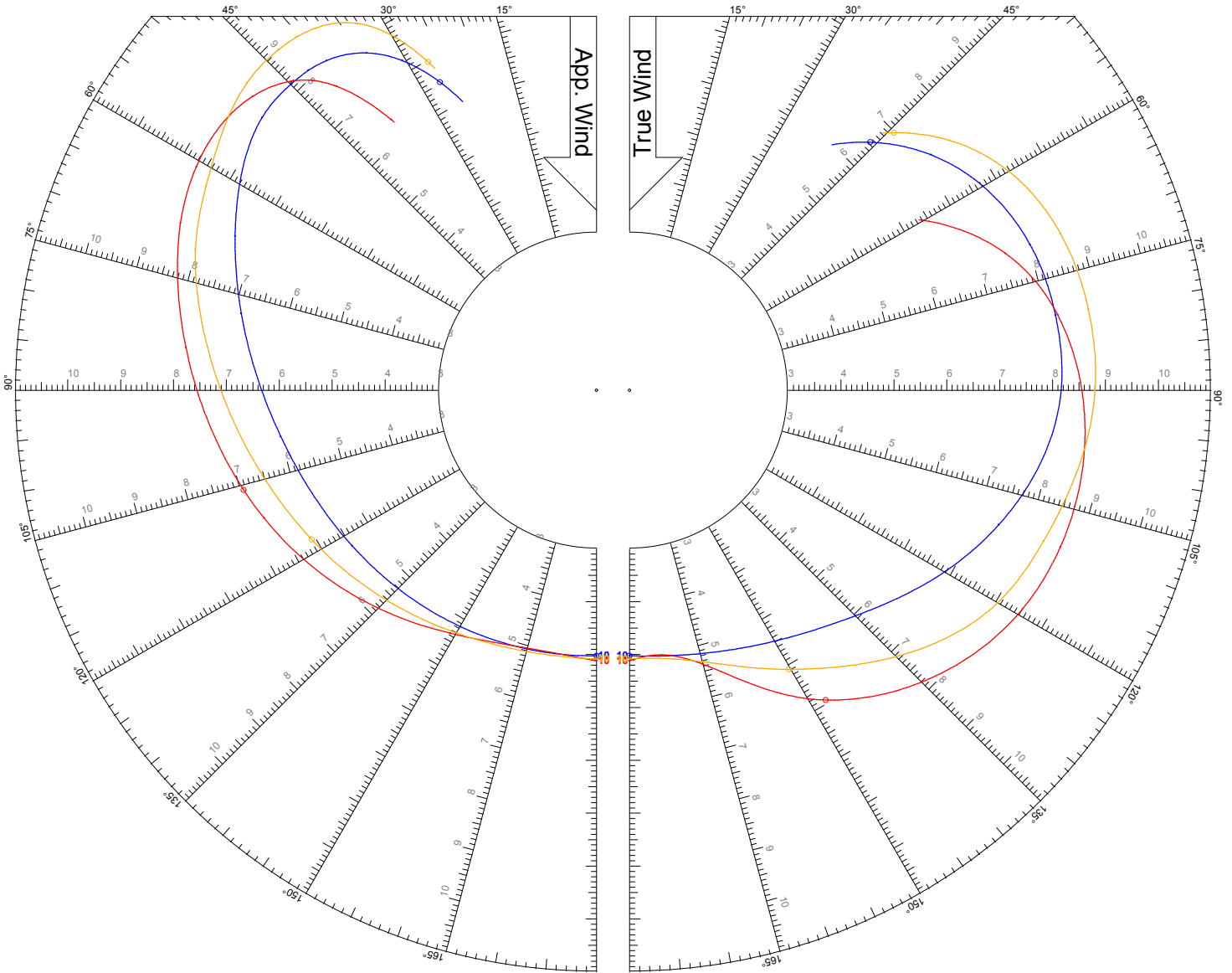
Jib

Asymmetric Spinnaker on Centerline

Code Zero



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TWS: 10 kts

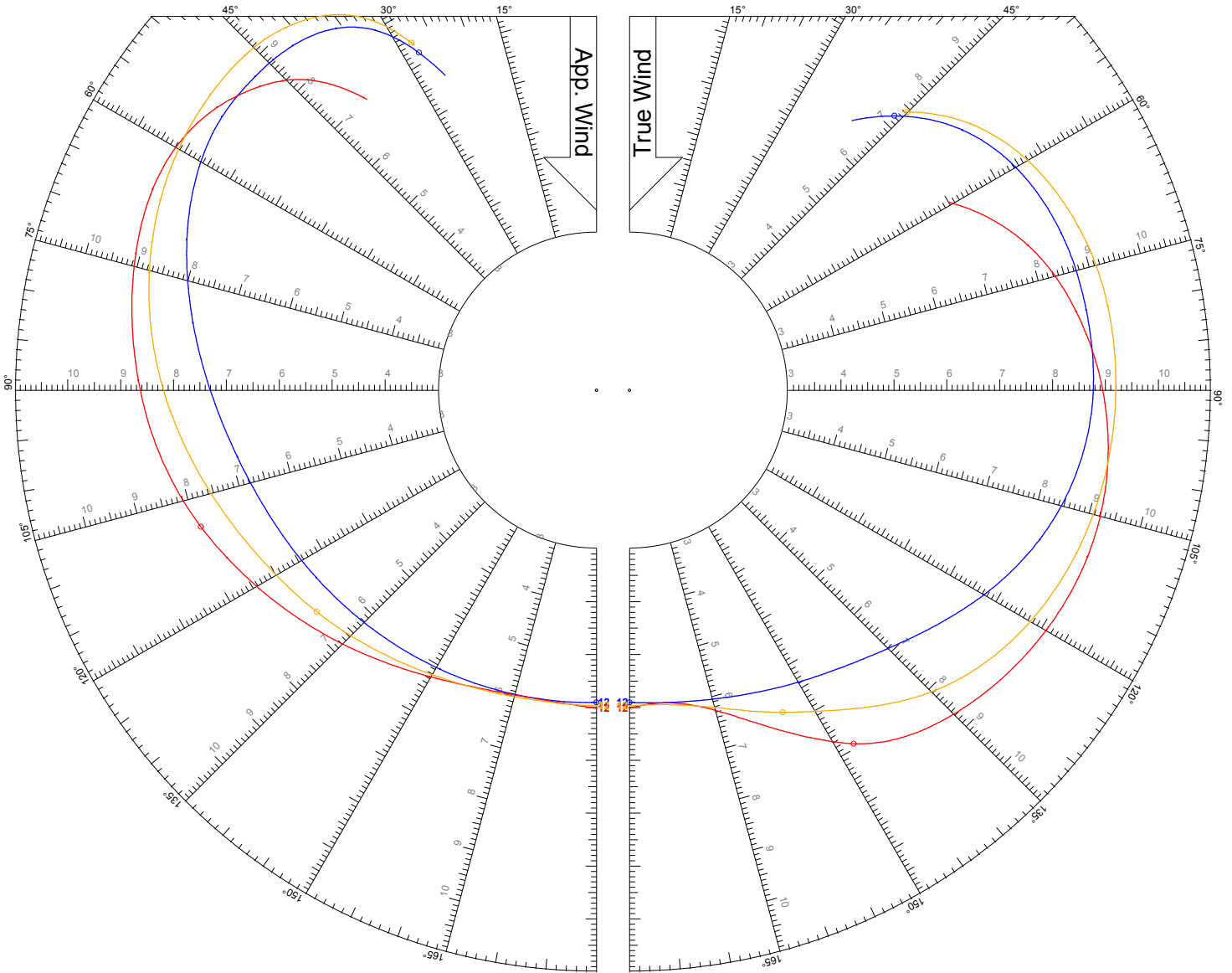
Jib

Asymmetric Spinnaker on Centerline

Code Zero



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TWS: 12 kts

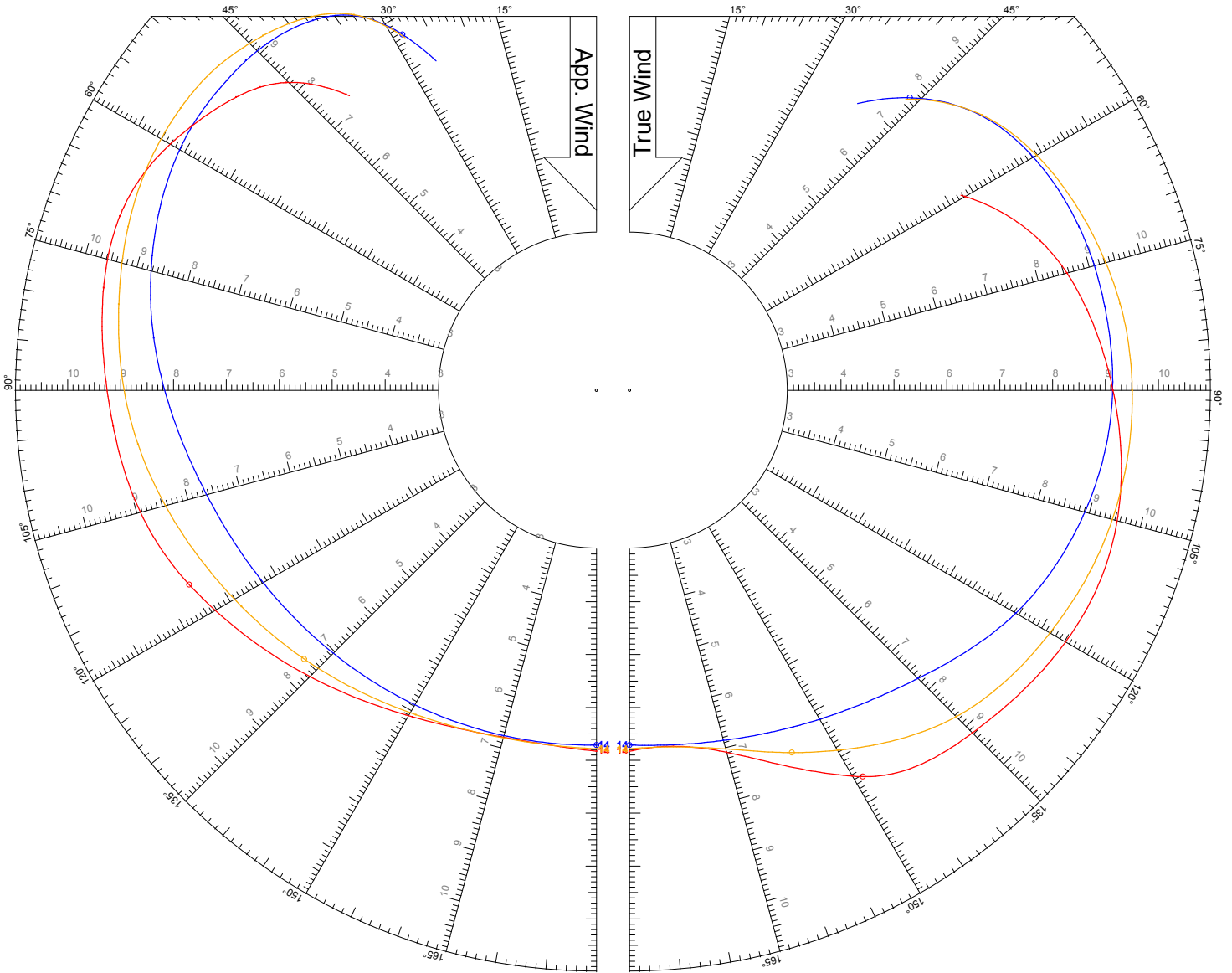
Jib

Asymmetric Spinnaker on Centerline

Code Zero



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TWS: 14 kts

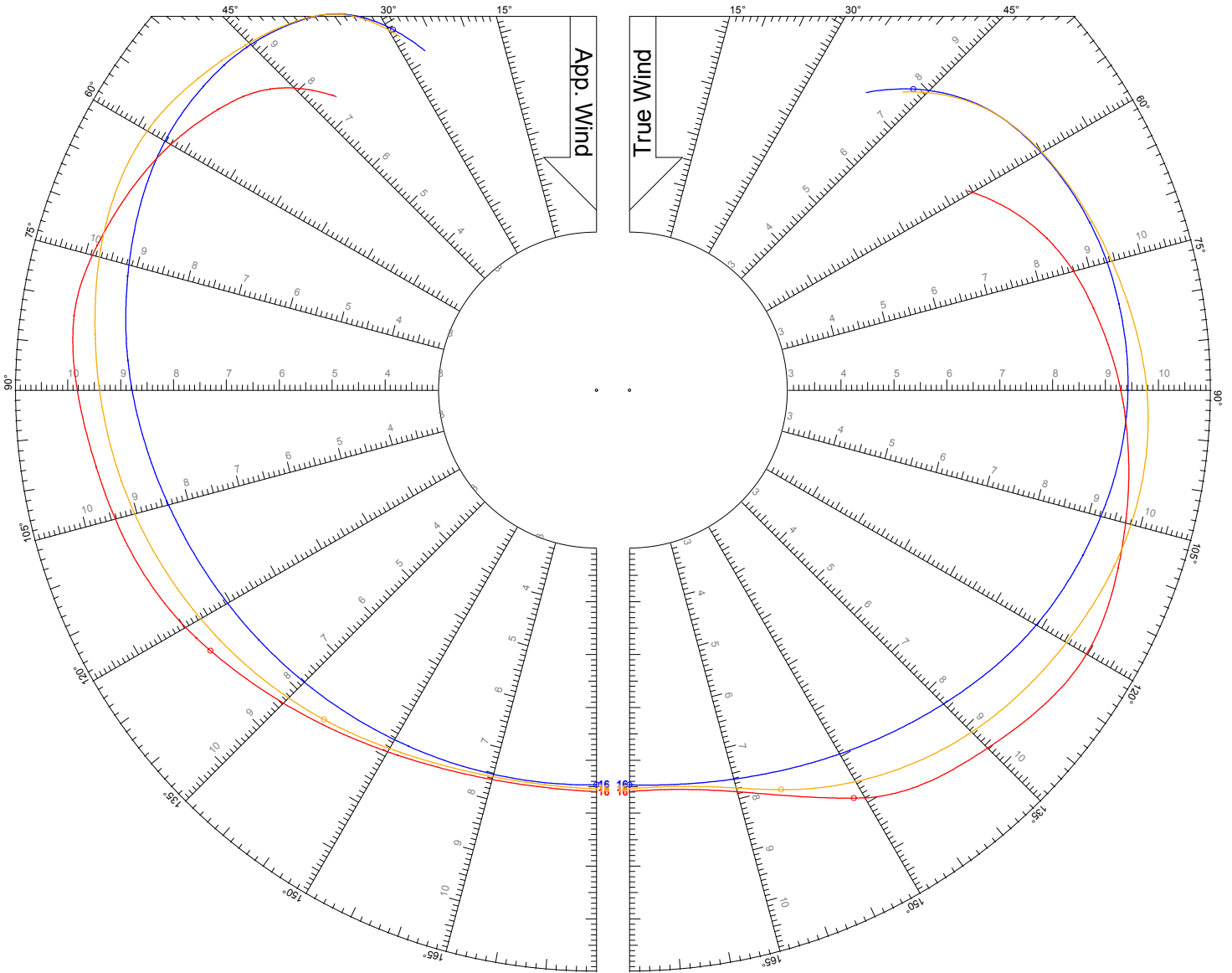
Jib

Asymmetric Spinnaker on Centerline

Code Zero



World Leader in Rating Technology



TWS: 16 kts

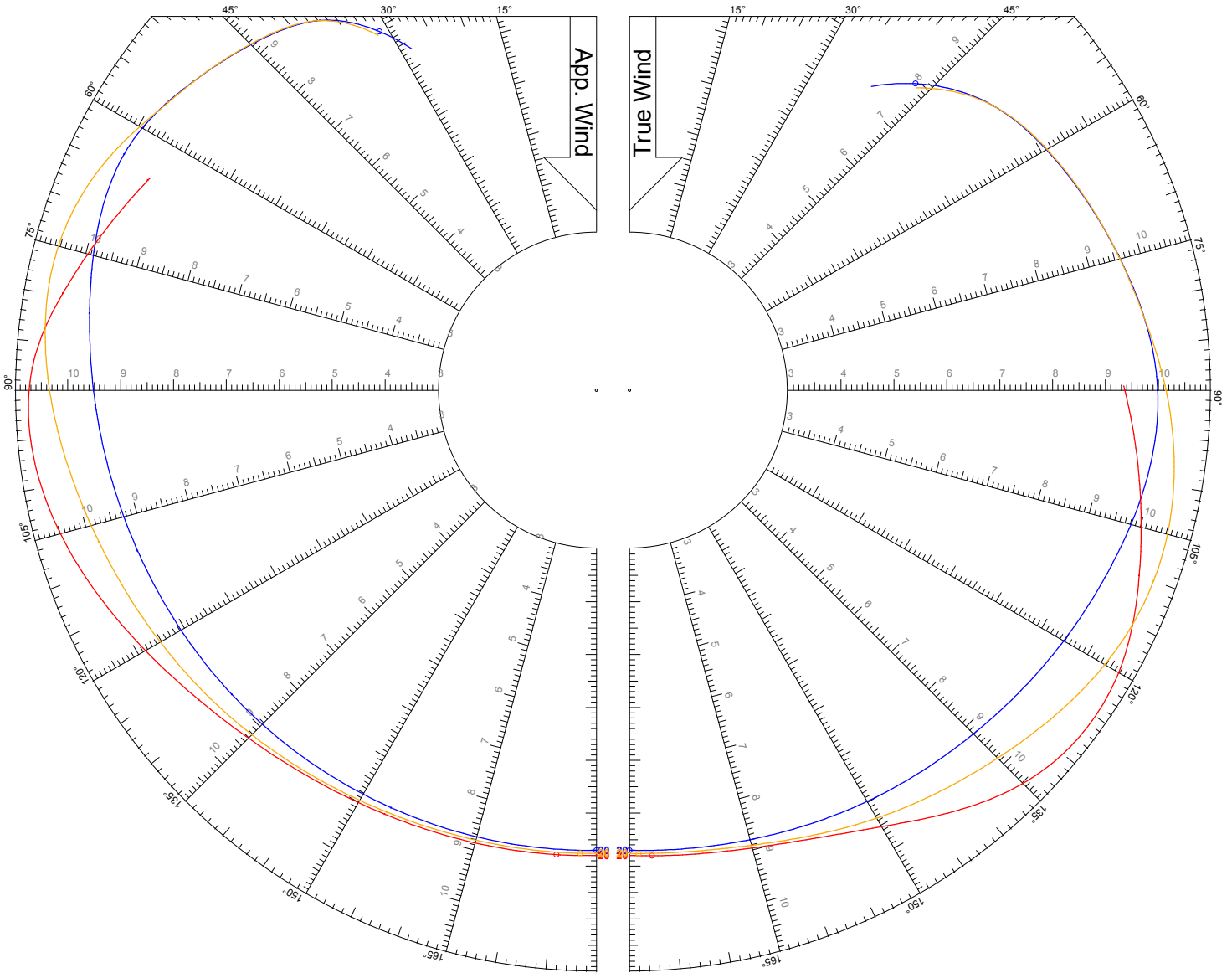
Jib

Asymmetric Spinnaker on Centerline

Code Zero



World Leader in Rating Technology



TWS: 20 kts

Jib

Asymmetric Spinnaker on Centerline

Code Zero

Shallow Draft Keel, Best Performance



TWS = 6 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
47.3° (b)	5.17	3.51	10.24	25.5°	4.9°	1.00	0.94
52°	5.59	3.44	10.42	27.0°	5.3°	1.00	0.95
60°	6.12	3.06	10.49	29.7°	5.6°	1.00	0.96
70°	6.55	2.24	10.28	33.3°	5.6°	1.00	0.98
75°	6.68	1.73	10.07	35.1°	5.4°	1.00	0.99
80°	6.77	1.18	9.80	37.1°	5.1°	1.00	1.00
90°	6.82	0.00	9.08	41.4°	4.3°	1.00	1.00
110°	6.18	2.11	6.99	53.8°	10.5°	1.00	1.00
120°	5.99	3.00	6.00	60.1°	8.9°	1.00	1.00
135°	5.32	3.77	4.38	75.7°	6.3°	1.00	1.00
150°	4.38	3.80	3.11	105.1°	4.7°	1.00	1.00
165°	3.29	3.18	2.95	148.2°	4.3°	1.00	1.00
180°	3.12	3.12	2.88	180.0°	4.1°	1.00	1.00
142.6° (r)	4.86	3.86	3.65	88.5°	5.3°	1.00	1.00

TWS = 8 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
46.1° (b)	6.20	4.29	13.08	26.2°	10.5°	1.00	0.94
52°	6.77	4.17	13.28	28.3°	11.5°	1.00	0.95
60°	7.36	3.68	13.30	31.4°	12.1°	1.00	0.96
70°	7.84	2.68	12.98	35.4°	11.9°	1.00	0.98
75°	7.99	2.07	12.68	37.5°	11.5°	1.00	1.00
80°	8.07	1.40	12.31	39.8°	10.5°	1.00	1.00
90°	8.08	0.00	11.37	44.7°	7.7°	1.00	1.00
110°	7.61	2.60	8.96	57.0°	12.4°	1.00	1.00
120°	7.38	3.69	7.71	64.0°	11.2°	1.00	1.00
135°	6.66	4.71	5.75	79.9°	7.7°	1.00	1.00
150°	5.66	4.91	4.19	107.5°	5.2°	1.00	1.00
165°	4.36	4.21	3.95	148.4°	4.5°	1.00	1.00
180°	4.15	4.15	3.85	180.0°	4.1°	1.00	1.00
146.7° (r)	5.90	4.93	4.47	100.0°	5.5°	1.00	1.00

TWS = 10 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
45.8° (b)	6.98	4.87	15.69	27.2°	17.9°	1.00	0.93
52°	7.68	4.73	15.92	29.7°	19.5°	1.00	0.93
60°	8.28	4.14	15.86	33.1°	20.2°	1.00	0.95
70°	8.67	2.97	15.31	37.9°	19.1°	1.00	0.97
75°	8.76	2.27	14.91	40.4°	18.1°	1.00	0.99
80°	8.81	1.53	14.43	43.0°	16.3°	1.00	1.00
90°	8.80	0.00	13.32	48.6°	11.6°	1.00	1.00
110°	8.67	2.97	10.76	60.8°	15.3°	1.00	1.00
120°	8.48	4.24	9.33	68.1°	12.6°	1.00	1.00
135°	7.81	5.52	7.11	84.0°	9.4°	1.00	1.00
150°	6.74	5.83	5.36	111.0°	5.7°	1.00	1.00
165°	5.36	5.18	5.01	148.9°	4.8°	1.00	1.00
180°	5.12	5.12	4.88	180.0°	4.2°	1.00	1.00
147.7° (r)	6.93	5.86	5.56	105.8°	6.1°	1.00	1.00

TWS = 12 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
45.0° (b)	7.44	5.26	18.05	28.0°	21.8°	1.00	0.81
52°	8.18	5.04	18.22	31.3°	24.2°	1.00	0.83
60°	8.69	4.35	18.00	35.3°	24.9°	1.00	0.85
70°	9.04	3.09	17.31	40.6°	25.7°	1.00	0.93
75°	9.13	2.36	16.86	43.4°	24.1°	1.00	0.96
80°	9.18	1.59	16.33	46.4°	22.2°	1.00	0.99
90°	9.20	0.00	15.12	52.5°	15.5°	1.00	1.00
110°	9.22	3.15	12.38	65.6°	17.4°	1.00	1.00
120°	9.09	4.55	10.84	73.4°	14.6°	1.00	1.00
135°	8.67	6.13	8.49	88.8°	10.7°	1.00	1.00
150°	7.67	6.64	6.59	114.4°	6.4°	1.00	1.00
165°	6.27	6.05	6.16	149.7°	5.2°	1.00	1.00
180°	6.02	6.02	5.98	180.0°	4.2°	1.00	1.00
147.6° (r)	7.92	6.68	6.80	109.0°	6.9°	1.00	1.00

TWS = 14 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
43.8° (b)	7.66	5.53	20.24	28.6°	22.1°	1.00	0.92
52°	8.45	5.21	20.33	32.9°	24.6°	1.00	0.69
60°	8.89	4.44	19.99	37.4°	26.4°	1.00	0.74
70°	9.21	3.15	19.21	43.2°	27.4°	1.00	0.82
75°	9.32	2.41	18.72	46.3°	27.8°	1.00	0.89
80°	9.42	1.64	18.18	49.3°	26.8°	1.00	0.95
90°	9.51	0.00	16.92	55.8°	20.2°	1.00	1.00
110°	9.60	3.28	14.01	69.9°	21.9°	1.00	0.97
120°	9.52	4.76	12.38	78.3°	16.1°	1.00	1.00
135°	9.17	6.48	9.93	94.2°	11.5°	1.00	1.00
150°	8.43	7.30	7.92	117.8°	7.1°	1.00	1.00
165°	7.09	6.85	7.38	150.6°	5.7°	1.00	1.00
180°	6.83	6.83	7.17	180.0°	4.3°	1.00	1.00
148.9° (r)	8.54	7.31	8.01	115.5°	7.4°	1.00	1.00

TWS = 16 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
43.3° (b)	7.83	5.70	22.35	29.4°	23.4°	1.00	0.81
52°	8.62	5.30	22.36	34.3°	25.2°	1.00	0.84
60°	9.00	4.50	21.93	39.2°	26.9°	1.00	0.63
70°	9.31	3.18	21.08	45.5°	28.2°	0.95	0.82
75°	9.44	2.44	20.58	48.7°	28.8°	0.99	0.82
80°	9.57	1.66	20.02	51.9°	29.1°	1.00	0.87
90°	9.78	0.00	18.75	58.6°	26.0°	1.00	0.99
110°	9.83	3.36	15.65	73.8°	22.1°	0.95	0.94
120°	9.98	4.99	14.00	81.9°	18.4°	1.00	1.00
135°	9.57	6.77	11.45	98.8°	12.2°	1.00	1.00
150°	8.90	7.71	9.41	121.8°	8.0°	1.00	1.00
165°	7.86	7.59	8.65	151.4°	6.2°	1.00	1.00
180°	7.59	7.59	8.41	180.0°	4.4°	1.00	1.00
151.2° (r)	8.81	7.72	9.31	124.0°	7.8°	1.00	1.00

TWS = 20 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
43.0° (b)	7.93	5.80	26.36	31.2°	24.1°	1.00	0.62
52°	8.74	5.38	26.30	36.8°	26.3°	1.00	0.66
60°	9.11	4.56	25.79	42.2°	27.1°	0.88	0.66
70°	9.45	3.23	24.87	49.1°	28.2°	0.87	0.80
75°	9.60	2.49	24.32	52.6°	29.3°	1.00	0.87
80°	9.77	1.70	23.73	56.1°	29.4°	1.00	0.94
90°	10.15	0.00	22.43	63.1°	30.3°	0.96	0.93
110°	10.55	3.61	19.16	78.8°	21.9°	1.00	0.97
120°	10.68	5.34	17.33	87.8°	22.1°	0.96	0.94
135°	10.52	7.44	14.60	104.4°	14.9°	1.00	1.00
150°	9.53	8.25	12.68	127.9°	10.4°	1.00	1.00
165°	8.96	8.66	11.58	153.4°	7.8°	1.00	1.00
180°	8.80	8.80	11.20	180.0°	4.7°	1.00	1.00
177.3° (r)	8.82	8.81	11.20	175.1°	5.2°	1.00	1.00



TWS = 6 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
45.9° (b)	4.71	3.28	9.90	25.9°	3.4°	1.00	0.97
52°	5.16	3.18	10.06	28.1°	3.6°	1.00	1.00
60°	5.58	2.79	10.05	31.2°	3.6°	1.00	1.00
70°	5.87	2.01	9.75	35.5°	3.4°	1.00	1.00
75°	5.95	1.54	9.50	37.7°	3.2°	1.00	1.00
80°	5.99	1.04	9.20	40.1°	3.0°	1.00	1.00
90°	5.95	0.00	8.46	45.4°	2.6°	1.00	1.00
110°	5.27	1.80	6.52	60.5°	1.5°	1.00	1.00
120°	4.69	2.35	5.50	72.3°	1.0°	1.00	1.00
135°	3.85	2.72	4.32	95.9°	0.5°	1.00	1.00
150°	3.38	2.93	3.56	121.6°	0.3°	1.00	1.00
165°	3.15	3.04	3.10	149.8°	0.2°	1.00	1.00
180°	3.05	3.05	2.98	180.0°	0.0°	1.00	1.00
174.1° (r)	3.07	3.05	2.99	168.0°	0.1°	1.00	1.00

TWS = 8 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
44.5° (b)	5.72	4.08	12.75	26.1°	5.7°	1.00	0.97
52°	6.33	3.90	12.91	29.2°	6.4°	1.00	1.00
60°	6.76	3.38	12.81	32.7°	6.1°	1.00	1.00
70°	7.08	2.42	12.37	37.4°	5.4°	1.00	1.00
75°	7.16	1.85	12.05	39.9°	5.0°	1.00	1.00
80°	7.20	1.25	11.67	42.6°	4.6°	1.00	1.00
90°	7.16	0.00	10.76	48.2°	3.8°	1.00	1.00
110°	6.46	2.21	8.42	63.9°	2.2°	1.00	1.00
120°	5.90	2.95	7.23	75.0°	1.5°	1.00	1.00
135°	5.02	3.55	5.77	97.0°	0.9°	1.00	1.00
150°	4.48	3.88	4.76	122.0°	0.6°	1.00	1.00
165°	4.18	4.04	4.15	149.9°	0.3°	1.00	1.00
180°	4.06	4.06	3.98	180.0°	0.1°	1.00	1.00
175.3° (r)	4.08	4.06	3.99	170.5°	0.2°	1.00	1.00

TWS = 10 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
44.1° (b)	6.53	4.69	15.35	26.6°	10.4°	1.00	0.96
52°	7.23	4.45	15.48	30.0°	11.5°	1.00	1.00
60°	7.72	3.86	15.32	33.8°	11.0°	1.00	1.00
70°	8.06	2.76	14.78	39.0°	9.6°	1.00	1.00
75°	8.14	2.11	14.39	41.7°	8.7°	1.00	1.00
80°	8.18	1.42	13.95	44.6°	7.6°	1.00	1.00
90°	8.16	0.00	12.91	50.8°	5.4°	1.00	1.00
110°	7.43	2.54	10.26	67.1°	2.9°	1.00	1.00
120°	6.87	3.44	8.93	78.2°	2.0°	1.00	1.00
135°	6.04	4.27	7.24	98.9°	1.3°	1.00	1.00
150°	5.48	4.75	6.01	122.9°	0.9°	1.00	1.00
165°	5.16	4.98	5.25	150.3°	0.5°	1.00	1.00
180°	5.02	5.02	5.03	180.0°	0.1°	1.00	1.00
180.0° (r)	5.02	5.02	5.03	180.0°	0.1°	1.00	1.00

TWS = 12 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
44.0° (b)	7.21	5.19	17.75	26.8°	16.2°	1.00	0.96
52°	7.99	4.92	17.83	30.4°	17.3°	1.00	0.98
60°	8.43	4.22	17.53	34.6°	16.9°	1.00	1.00
70°	8.69	2.97	16.83	40.5°	14.5°	1.00	1.00
75°	8.74	2.26	16.39	43.7°	13.0°	1.00	1.00
80°	8.77	1.52	15.90	46.9°	11.4°	1.00	1.00
90°	8.77	0.00	14.81	53.7°	8.2°	1.00	1.00
110°	8.25	2.82	12.07	70.1°	3.6°	1.00	1.00
120°	7.74	3.87	10.62	80.9°	2.6°	1.00	1.00
135°	6.91	4.89	8.75	101.1°	1.7°	1.00	1.00
150°	6.38	5.52	7.32	124.2°	1.2°	1.00	1.00
165°	6.05	5.84	6.42	150.9°	0.7°	1.00	1.00
180°	5.91	5.91	6.15	180.0°	0.2°	1.00	1.00
180.0° (r)	5.91	5.91	6.15	180.0°	0.2°	1.00	1.00

TWS = 14 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
43.8° (b)	7.66	5.53	19.85	26.8°	22.1°	1.00	0.92
52°	8.44	5.19	19.78	30.7°	23.1°	1.00	0.94
60°	8.82	4.41	19.33	35.2°	22.5°	1.00	0.97
70°	9.05	3.09	18.53	41.7°	20.1°	1.00	1.00
75°	9.10	2.36	18.10	45.3°	17.8°	1.00	1.00
80°	9.12	1.58	17.62	49.0°	15.6°	1.00	1.00
90°	9.14	0.00	16.54	56.5°	11.1°	1.00	1.00
110°	8.78	3.00	13.80	73.4°	4.5°	1.00	1.00
120°	8.43	4.22	12.31	83.7°	3.3°	1.00	1.00
135°	7.71	5.45	10.27	103.0°	2.2°	1.00	1.00
150°	7.19	6.22	8.68	125.6°	1.6°	1.00	1.00
165°	6.86	6.62	7.66	151.6°	0.9°	1.00	1.00
180°	6.71	6.71	7.36	180.0°	0.2°	1.00	1.00
180.0° (r)	6.71	6.71	7.36	180.0°	0.2°	1.00	1.00

TWS = 16 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
43.3° (b)	7.83	5.70	21.80	27.3°	23.4°	1.00	0.81
52°	8.62	5.30	21.57	31.6°	25.2°	1.00	0.84
60°	8.99	4.49	20.89	35.9°	26.7°	1.00	0.91
70°	9.26	3.17	19.98	42.6°	25.0°	1.00	0.97
75°	9.35	2.42	19.48	46.3°	23.8°	1.00	1.00
80°	9.40	1.63	19.11	50.4°	20.5°	1.00	1.00
90°	9.43	0.00	18.17	58.8°	14.5°	1.00	1.00
110°	9.12	3.12	15.52	76.6°	5.8°	1.00	1.00
120°	8.88	4.44	14.00	86.7°	4.0°	1.00	1.00
135°	8.39	5.93	11.83	105.0°	2.8°	1.00	1.00
150°	7.94	6.88	10.07	126.8°	2.0°	1.00	1.00
165°	7.61	7.36	8.95	152.3°	1.2°	1.00	1.00
180°	7.46	7.46	8.61	180.0°	0.3°	1.00	1.00
180.0° (r)	7.46	7.46	8.61	180.0°	0.3°	1.00	1.00

TWS = 20 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
43.0° (b)	7.93	5.80	25.52	28.8°	24.1°	1.00	0.62
52°	8.74	5.38	25.09	33.7°	26.3°	1.00	0.66
60°	9.10	4.55	24.23	38.5°	27.8°	1.00	0.71
70°	9.44	3.23	22.93	45.1°	28.9°	1.00	0.80
75°	9.60	2.49	22.21	48.5°	29.3°	1.00	0.87
80°	9.77	1.70	21.51	52.1°	29.4°	1.00	0.94
90°	9.99	0.00	20.81	61.3°	23.7°	1.00	1.00
110°	9.70	3.32	18.85	81.5°	10.4°	1.00	1.00
120°	9.48	4.74	17.41	92.1°	6.7°	1.00	1.00
135°	9.19	6.50	15.15	109.7°	4.3°	1.00	1.00
150°	8.98	7.78	13.16	130.1°	3.0°	1.00	1.00
165°	8.80	8.50	11.83	153.9°	1.8°	1.00	1.00
180°	8.70	8.70	11.39	180.0°	0.6°	1.00	1.00
180.0° (r)	8.70	8.70	11.39	180.0°	0.6°	1.00	1.00

Shallow Draft Keel, Asymmetric Spinnaker on CL



TWS = 6 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	4.17	2.08	8.96	35.9°	10.5°	1.00	0.96
70°	5.11	1.75	9.20	38.2°	11.3°	1.00	0.97
75°	5.48	1.42	9.18	39.6°	11.6°	1.00	0.97
80°	5.76	1.00	9.07	41.1°	11.7°	1.00	0.97
90°	6.12	0.00	8.60	44.7°	11.7°	1.00	0.99
110°	6.18	2.11	7.01	54.6°	10.5°	1.00	1.00
120°	5.99	3.00	6.04	61.3°	8.9°	1.00	1.00
135°	5.32	3.77	4.46	77.8°	6.3°	1.00	1.00
150°	4.38	3.80	3.23	107.5°	4.7°	1.00	1.00
165°	3.29	3.18	3.10	149.1°	4.3°	1.00	1.00
180°	3.12	3.12	3.03	180.0°	4.1°	1.00	1.00
142.6° (r)	4.86	3.86	3.75	90.9°	5.3°	1.00	1.00

TWS = 8 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	5.39	2.70	11.77	36.1°	12.8°	1.00	0.96
70°	6.47	2.21	11.92	38.8°	14.7°	1.00	0.96
75°	6.85	1.77	11.81	40.5°	15.2°	1.00	0.97
80°	7.14	1.24	11.60	42.3°	15.4°	1.00	0.97
90°	7.51	0.00	10.93	46.6°	15.1°	1.00	0.99
110°	7.61	2.60	8.96	57.6°	12.4°	1.00	1.00
120°	7.38	3.69	7.73	65.1°	11.2°	1.00	1.00
135°	6.66	4.71	5.85	81.9°	7.7°	1.00	1.00
150°	5.66	4.91	4.37	109.8°	5.2°	1.00	1.00
165°	4.36	4.21	4.15	149.3°	4.5°	1.00	1.00
180°	4.15	4.15	4.05	180.0°	4.1°	1.00	1.00
146.7° (r)	5.90	4.93	4.62	102.4°	5.5°	1.00	1.00

TWS = 10 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	6.42	3.21	14.36	36.4°	16.5°	1.00	0.95
70°	7.57	2.59	14.30	39.3°	20.0°	1.00	0.95
75°	7.95	2.06	14.05	41.0°	21.2°	1.00	0.95
80°	8.22	1.43	13.73	43.2°	21.3°	1.00	0.96
90°	8.55	0.00	12.92	48.6°	19.3°	1.00	0.98
110°	8.67	2.97	10.66	61.1°	15.3°	1.00	1.00
120°	8.48	4.24	9.33	69.1°	12.6°	1.00	1.00
135°	7.81	5.52	7.22	85.9°	9.4°	1.00	1.00
150°	6.74	5.83	5.58	113.1°	5.7°	1.00	1.00
165°	5.36	5.18	5.27	149.8°	4.8°	1.00	1.00
180°	5.12	5.12	5.13	180.0°	4.2°	1.00	1.00
147.7° (r)	6.93	5.86	5.76	107.9°	6.1°	1.00	1.00

TWS = 12 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	7.07	3.53	16.44	36.7°	22.1°	0.97	0.93
70°	8.02	2.74	16.15	41.0°	22.2°	0.92	0.93
75°	8.33	2.16	15.84	43.5°	22.2°	0.92	0.93
80°	8.58	1.49	15.43	46.1°	22.2°	0.93	0.93
90°	8.95	0.00	14.44	51.7°	22.2°	0.95	0.93
110°	9.22	3.15	12.14	65.7°	17.4°	1.00	1.00
120°	9.09	4.55	10.76	74.3°	14.6°	1.00	1.00
135°	8.67	6.13	8.59	90.5°	10.7°	1.00	1.00
150°	7.67	6.65	6.85	116.3°	6.4°	1.00	1.00
165°	6.27	6.05	6.46	150.6°	5.2°	1.00	1.00
180°	6.02	6.02	6.28	180.0°	4.2°	1.00	1.00
147.6° (r)	7.92	6.68	7.04	111.0°	6.9°	1.00	1.00

TWS = 14 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	7.33	3.66	18.33	38.2°	22.1°	0.87	0.92
70°	8.26	2.83	17.93	43.1°	22.4°	0.84	0.93
75°	8.56	2.22	17.56	45.9°	22.2°	0.84	0.93
80°	8.78	1.53	17.09	48.9°	22.3°	0.85	0.93
90°	9.14	0.00	16.00	55.1°	22.2°	0.88	0.94
110°	9.60	3.28	13.37	69.5°	21.9°	1.00	0.97
120°	9.52	4.76	12.21	79.1°	16.1°	1.00	1.00
135°	9.17	6.48	10.05	95.9°	11.5°	1.00	1.00
150°	8.43	7.30	8.22	119.6°	7.1°	1.00	1.00
165°	7.09	6.85	7.73	151.4°	5.7°	1.00	1.00
180°	6.83	6.83	7.52	180.0°	4.3°	1.00	1.00
148.9° (r)	8.54	7.31	8.31	117.3°	7.4°	1.00	1.00

TWS = 16 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	7.48	3.74	20.18	39.7°	22.0°	0.81	0.85
70°	8.40	2.87	19.69	45.1°	22.6°	0.81	0.82
75°	8.69	2.25	19.26	48.2°	22.5°	0.81	0.83
80°	8.91	1.55	18.74	51.4°	22.4°	0.81	0.86
90°	9.29	0.00	17.56	58.1°	22.2°	0.81	0.94
110°	9.83	3.36	14.84	73.4°	22.1°	0.95	0.94
120°	9.98	4.99	13.62	82.6°	18.4°	1.00	1.00
135°	9.57	6.77	11.57	100.3°	12.2°	1.00	1.00
150°	8.90	7.71	9.75	123.3°	8.0°	1.00	1.00
165°	7.86	7.59	9.04	152.2°	6.2°	1.00	1.00
180°	7.59	7.59	8.81	180.0°	4.4°	1.00	1.00
151.2° (r)	8.81	7.71	9.66	125.5°	7.8°	1.00	1.00

TWS = 20 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	-0.01	-0.01	18.67	57.5°	25.0°	0.81	0.62
70°	-0.01	0.00	18.41	68.2°	25.0°	0.81	0.62
75°	-0.01	0.00	18.32	73.6°	25.0°	0.81	0.62
80°	-0.01	0.00	18.25	79.0°	25.0°	0.81	0.62
90°	9.37	0.00	20.79	63.2°	22.7°	0.81	0.66
110°	10.26	3.51	17.89	79.2°	22.1°	0.85	0.94
120°	10.68	5.34	16.38	88.3°	22.1°	0.96	0.94
135°	10.52	7.44	14.61	106.0°	14.9°	1.00	1.00
150°	9.53	8.25	13.05	129.3°	10.4°	1.00	1.00
165°	8.96	8.66	12.06	154.1°	7.8°	1.00	1.00
180°	8.80	8.80	11.70	180.0°	4.7°	1.00	1.00
177.3° (r)	8.82	8.81	11.70	175.2°	5.2°	1.00	1.00

Shallow Draft Keel, Code Zero



TWS = 6 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
47.3° (b)	5.17	3.51	10.28	25.5°	4.9°	1.00	0.94
52°	5.59	3.44	10.45	27.0°	5.3°	1.00	0.95
60°	6.12	3.06	10.53	29.7°	5.6°	1.00	0.96
70°	6.55	2.24	10.31	33.3°	5.6°	1.00	0.98
75°	6.68	1.73	10.10	35.2°	5.4°	1.00	0.99
80°	6.77	1.18	9.82	37.2°	5.1°	1.00	1.00
90°	6.82	0.00	9.11	41.5°	4.3°	1.00	1.00
110°	6.09	2.08	6.97	54.8°	2.3°	1.00	1.00
120°	5.62	2.81	5.84	63.9°	6.8°	1.00	1.00
135°	4.78	3.38	4.32	83.8°	5.2°	1.00	1.00
150°	3.85	3.34	3.36	115.2°	4.4°	1.00	1.00
165°	3.26	3.15	3.07	149.1°	4.2°	1.00	1.00
180°	3.09	3.09	2.99	180.0°	0.0°	1.00	1.00
140.8° (r)	4.43	3.43	3.86	94.4°	4.8°	1.00	1.00

TWS = 8 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
46.1° (b)	6.20	4.29	13.09	25.9°	10.5°	1.00	0.94
52°	6.77	4.17	13.27	27.9°	11.5°	1.00	0.95
60°	7.36	3.68	13.27	30.9°	12.1°	1.00	0.96
70°	7.84	2.68	12.93	34.9°	11.9°	1.00	0.98
75°	7.99	2.07	12.63	37.1°	11.5°	1.00	1.00
80°	8.07	1.40	12.27	39.5°	10.5°	1.00	1.00
90°	8.08	0.00	11.37	44.7°	7.7°	1.00	1.00
110°	7.26	2.48	8.82	59.3°	3.2°	1.00	1.00
120°	6.95	3.48	7.54	67.4°	8.4°	1.00	1.00
135°	6.06	4.29	5.73	86.9°	6.0°	1.00	1.00
150°	5.05	4.37	4.52	116.2°	4.8°	1.00	1.00
165°	4.32	4.17	4.12	149.3°	4.3°	1.00	1.00
180°	4.11	4.11	3.99	180.0°	0.1°	1.00	1.00
143.3° (r)	5.51	4.42	4.95	101.7°	5.1°	1.00	1.00

TWS = 10 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
45.8° (b)	6.98	4.87	15.56	26.1°	17.9°	1.00	0.93
52°	7.68	4.73	15.72	28.3°	19.5°	1.00	0.93
60°	8.28	4.14	15.59	31.5°	20.2°	1.00	0.95
70°	8.67	2.97	15.02	36.4°	19.1°	1.00	0.97
75°	8.76	2.27	14.63	39.0°	18.1°	1.00	0.99
80°	8.81	1.53	14.20	42.0°	16.3°	1.00	1.00
90°	8.80	0.00	13.23	48.3°	11.6°	1.00	1.00
110°	8.33	2.85	10.52	62.5°	11.8°	1.00	1.00
120°	8.04	4.02	9.14	71.1°	10.3°	1.00	1.00
135°	7.13	5.04	7.13	90.5°	6.9°	1.00	1.00
150°	6.10	5.28	5.74	118.1°	5.2°	1.00	1.00
165°	5.32	5.13	5.22	149.8°	4.5°	1.00	1.00
180°	5.08	5.08	5.05	180.0°	0.1°	1.00	1.00
150.3° (r)	6.08	5.28	5.72	118.7°	5.2°	1.00	1.00

TWS = 12 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
45.0° (b)	7.44	5.26	17.75	26.3°	21.8°	1.00	0.81
52°	8.18	5.04	17.76	28.9°	24.2°	1.00	0.83
60°	8.69	4.35	17.42	32.6°	24.9°	1.00	0.85
70°	9.04	3.09	16.58	37.7°	25.7°	1.00	0.93
75°	9.13	2.36	16.17	40.8°	24.1°	1.00	0.96
80°	9.18	1.59	15.72	44.2°	22.2°	1.00	0.99
90°	9.20	0.00	14.83	51.7°	15.5°	1.00	1.00
110°	9.00	3.08	12.15	66.6°	12.8°	1.00	1.00
120°	8.75	4.37	10.68	75.6°	11.3°	1.00	1.00
135°	8.07	5.71	8.55	93.7°	8.0°	1.00	1.00
150°	7.01	6.07	7.03	120.3°	5.7°	1.00	1.00
165°	6.21	6.00	6.41	150.6°	4.7°	1.00	1.00
180°	5.97	5.97	6.19	180.0°	0.2°	1.00	1.00
154.6° (r)	6.75	6.09	6.74	129.3°	5.3°	1.00	1.00

TWS = 14 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
44.4° (b)	7.71	5.50	19.78	26.9°	23.3°	1.00	0.69
52°	8.45	5.21	19.72	30.3°	24.6°	1.00	0.69
60°	8.89	4.44	19.16	34.2°	26.4°	1.00	0.74
70°	9.21	3.15	18.15	39.7°	27.4°	1.00	0.82
75°	9.32	2.41	17.56	42.6°	27.8°	1.00	0.89
80°	9.42	1.64	17.05	46.0°	26.8°	1.00	0.95
90°	9.51	0.00	16.25	54.2°	20.2°	1.00	1.00
110°	9.38	3.21	13.67	70.6°	14.5°	1.00	1.00
120°	9.18	4.59	12.20	80.2°	12.2°	1.00	1.00
135°	8.73	6.17	10.01	97.6°	9.2°	1.00	1.00
150°	7.86	6.81	8.36	122.2°	6.3°	1.00	1.00
165°	7.02	6.78	7.67	151.4°	5.0°	1.00	1.00
180°	6.78	6.78	7.40	180.0°	0.3°	1.00	1.00
155.9° (r)	7.51	6.85	7.97	133.4°	5.7°	1.00	1.00

TWS = 16 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
43.9° (b)	7.83	5.64	21.69	27.5°	24.3°	0.98	0.62
52°	8.61	5.30	21.50	31.4°	26.2°	0.99	0.62
60°	9.00	4.50	20.88	35.9°	26.9°	1.00	0.63
70°	9.31	3.18	19.69	41.7°	28.2°	0.95	0.82
75°	9.44	2.44	19.06	44.7°	28.8°	0.99	0.82
80°	9.57	1.66	18.40	47.9°	29.1°	1.00	0.87
90°	9.78	0.00	17.38	55.7°	26.0°	1.00	0.99
110°	9.75	3.33	15.23	74.0°	16.0°	1.00	1.00
120°	9.54	4.77	13.76	84.0°	13.1°	1.00	1.00
135°	9.15	6.47	11.53	101.7°	10.4°	1.00	1.00
150°	8.55	7.40	9.78	124.4°	7.1°	1.00	1.00
165°	7.79	7.52	8.97	152.1°	5.4°	1.00	1.00
180°	7.54	7.54	8.67	180.0°	0.4°	1.00	1.00
159.2° (r)	8.08	7.56	9.15	141.1°	5.9°	1.00	1.00

TWS = 20 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
44.3° (b)	7.98	5.72	25.32	29.6°	23.8°	0.86	0.62
52°	8.73	5.38	25.01	33.8°	25.7°	0.88	0.62
60°	9.11	4.56	24.19	38.6°	27.1°	0.88	0.66
70°	9.45	3.23	22.89	45.1°	28.2°	0.87	0.80
75°	9.60	2.48	22.14	48.5°	29.0°	0.88	0.84
80°	9.76	1.69	21.36	51.9°	29.8°	0.92	0.85
90°	10.15	0.00	19.88	59.3°	30.3°	0.96	0.93
110°	10.55	3.61	17.96	78.3°	21.9°	1.00	0.97
120°	10.38	5.19	16.85	89.1°	16.1°	1.00	1.00
135°	9.84	6.96	14.75	107.8°	11.8°	1.00	1.00
150°	9.35	8.09	12.99	129.4°	9.0°	1.00	1.00
165°	8.91	8.61	11.87	153.8°	1.8°	1.00	1.00
180°	8.76	8.76	11.50	180.0°	0.6°	1.00	1.00
178.9° (r)	8.76	8.76	11.50	178.0°	0.7°	1.00	1.00