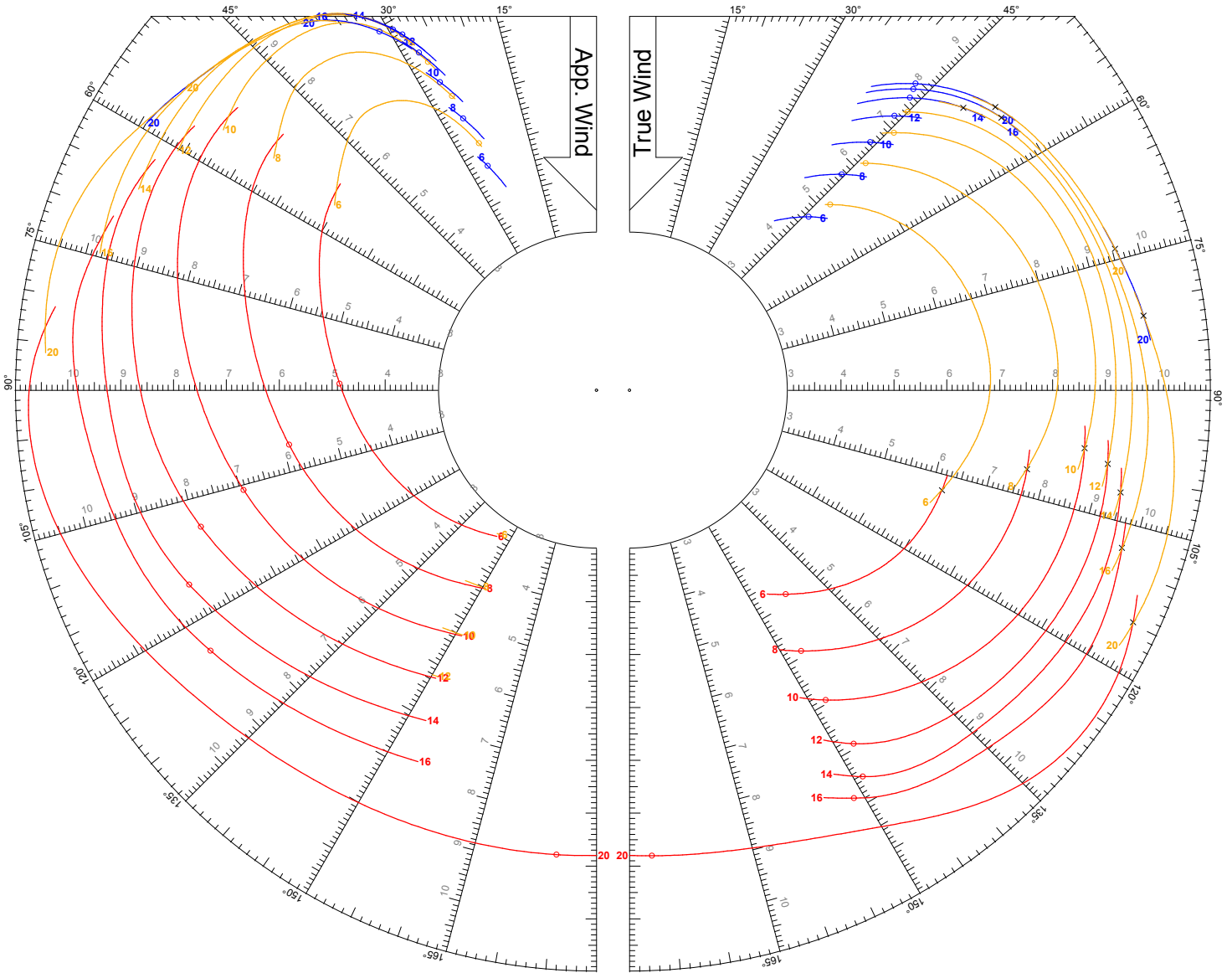




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TWS: 6, 8, 10, 12, 14, 16, 20 kts

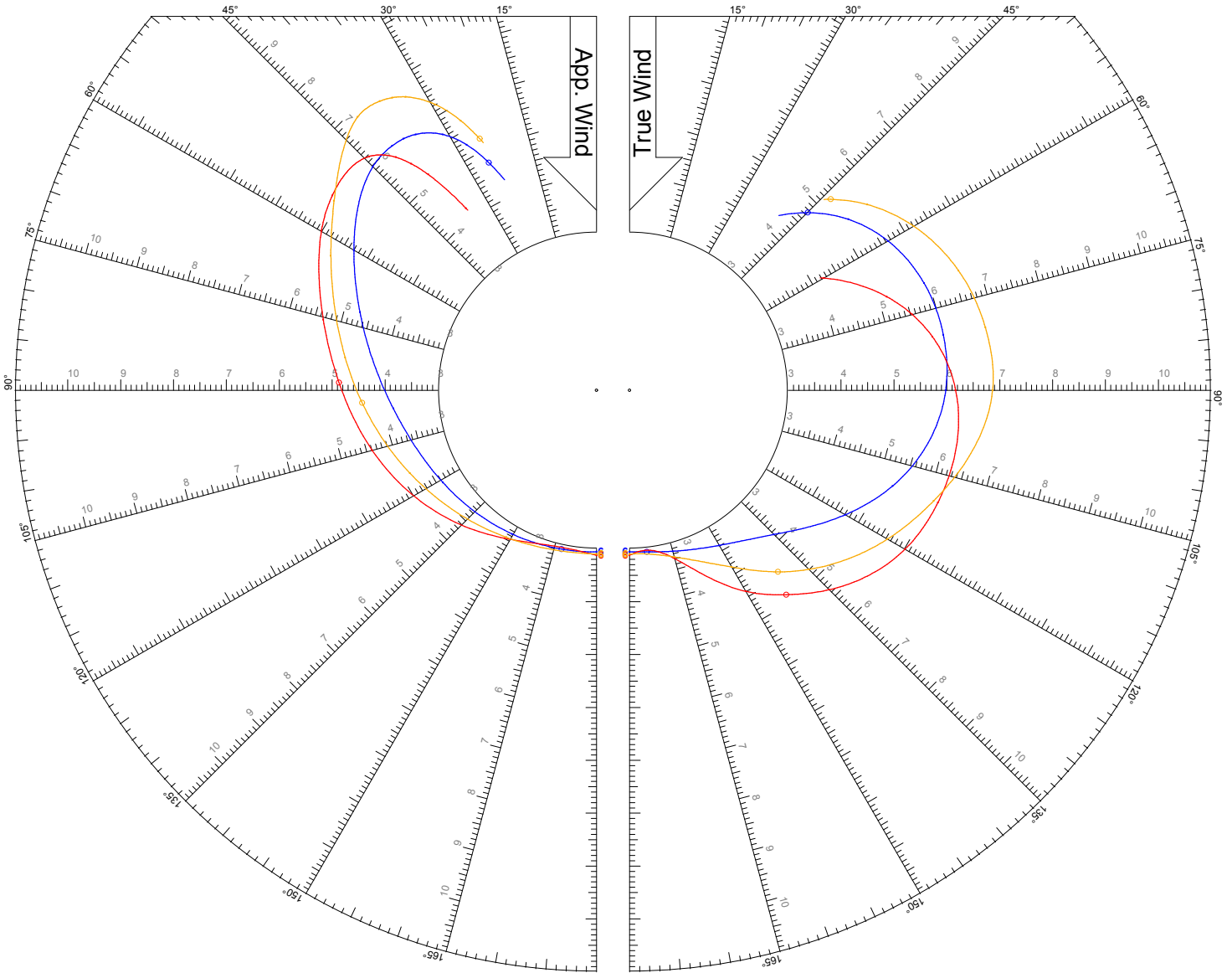
Jib

Asymmetric Spinnaker on Centerline

Code Zero



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**TWS: 6 kts**

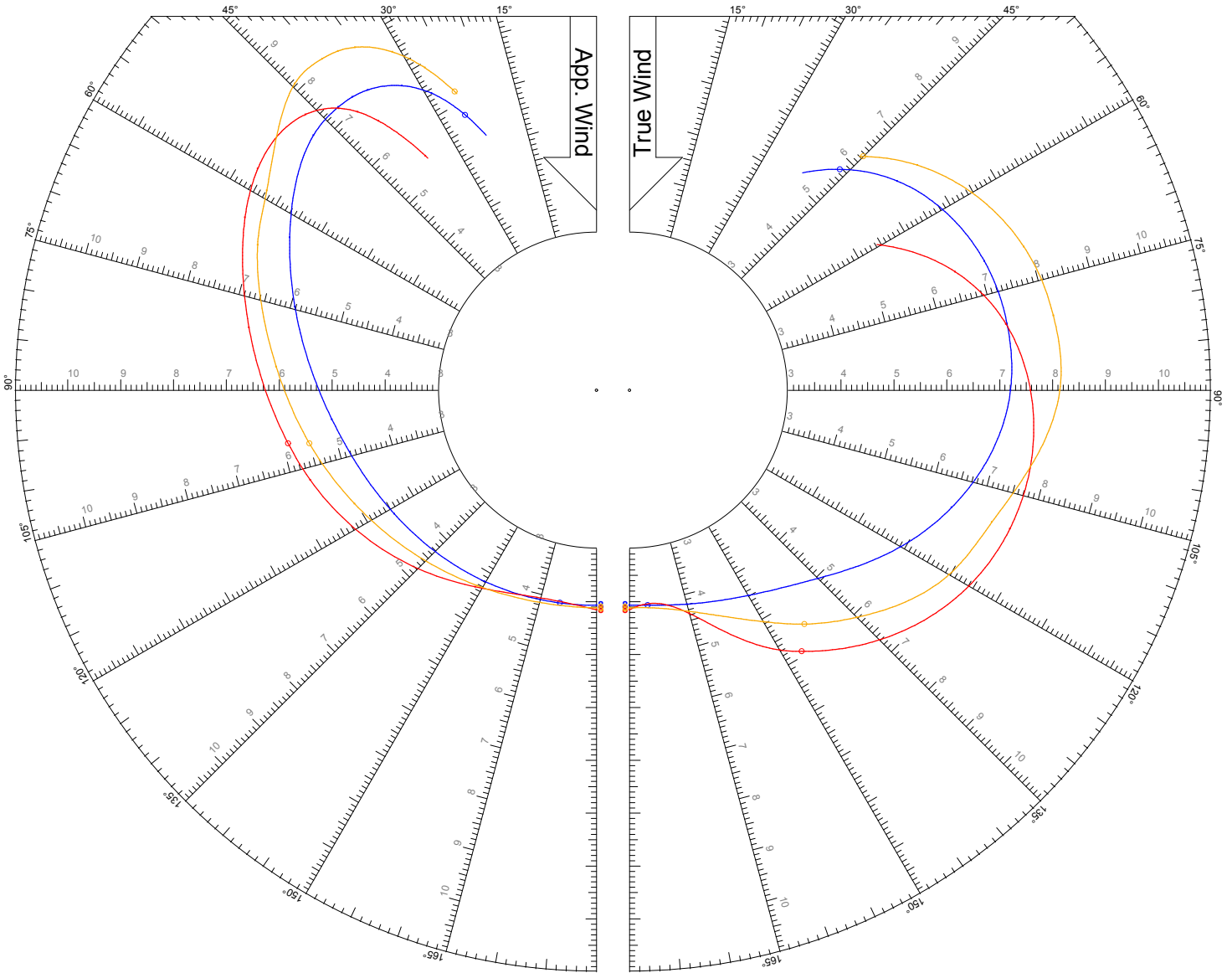
**Jib**

**Asymmetric Spinnaker on Centerline**

**Code Zero**



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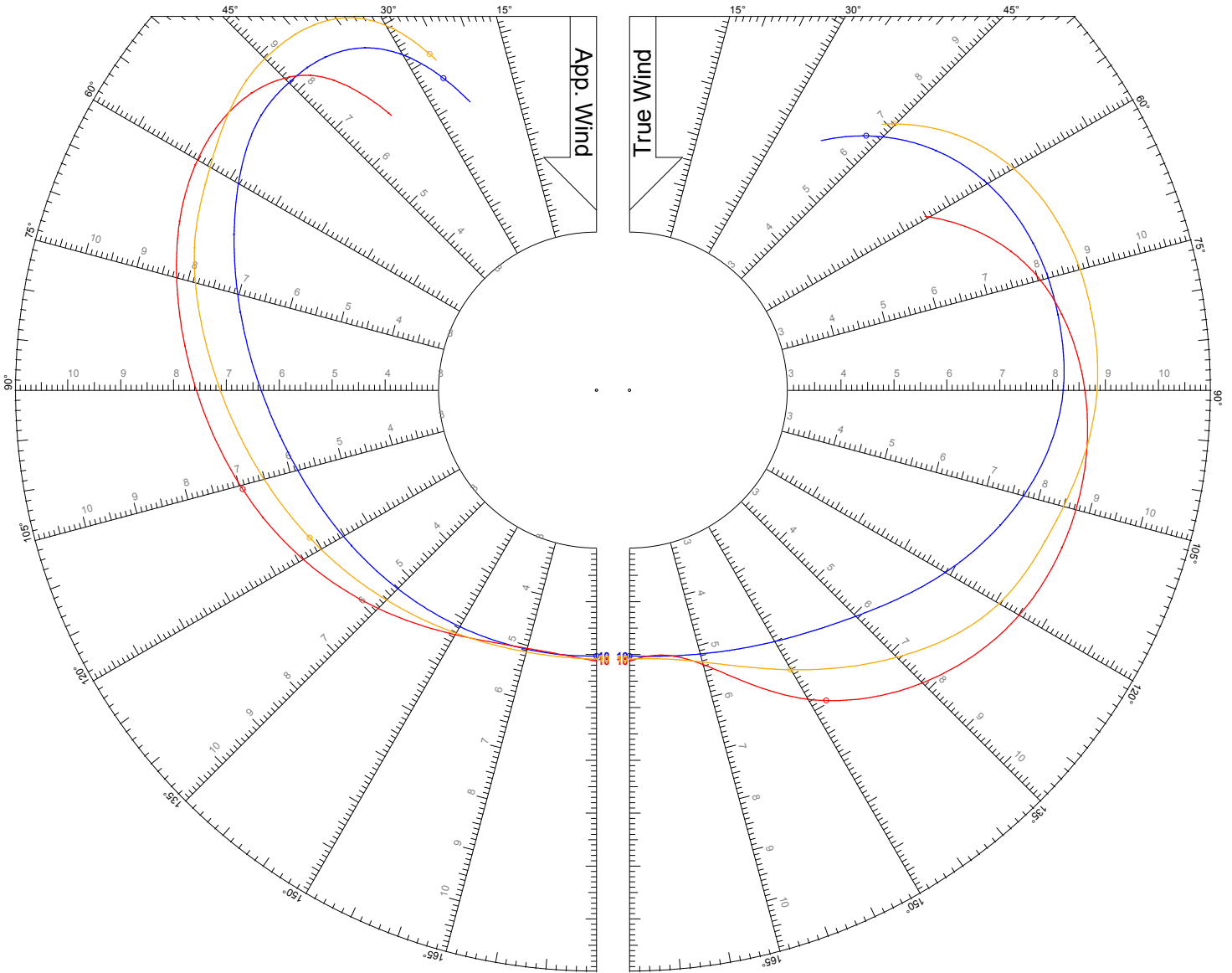


**TWS: 8 kts**

**Jib**

**Asymmetric Spinnaker on Centerline**

**Code Zero**



**TWS: 10 kts**

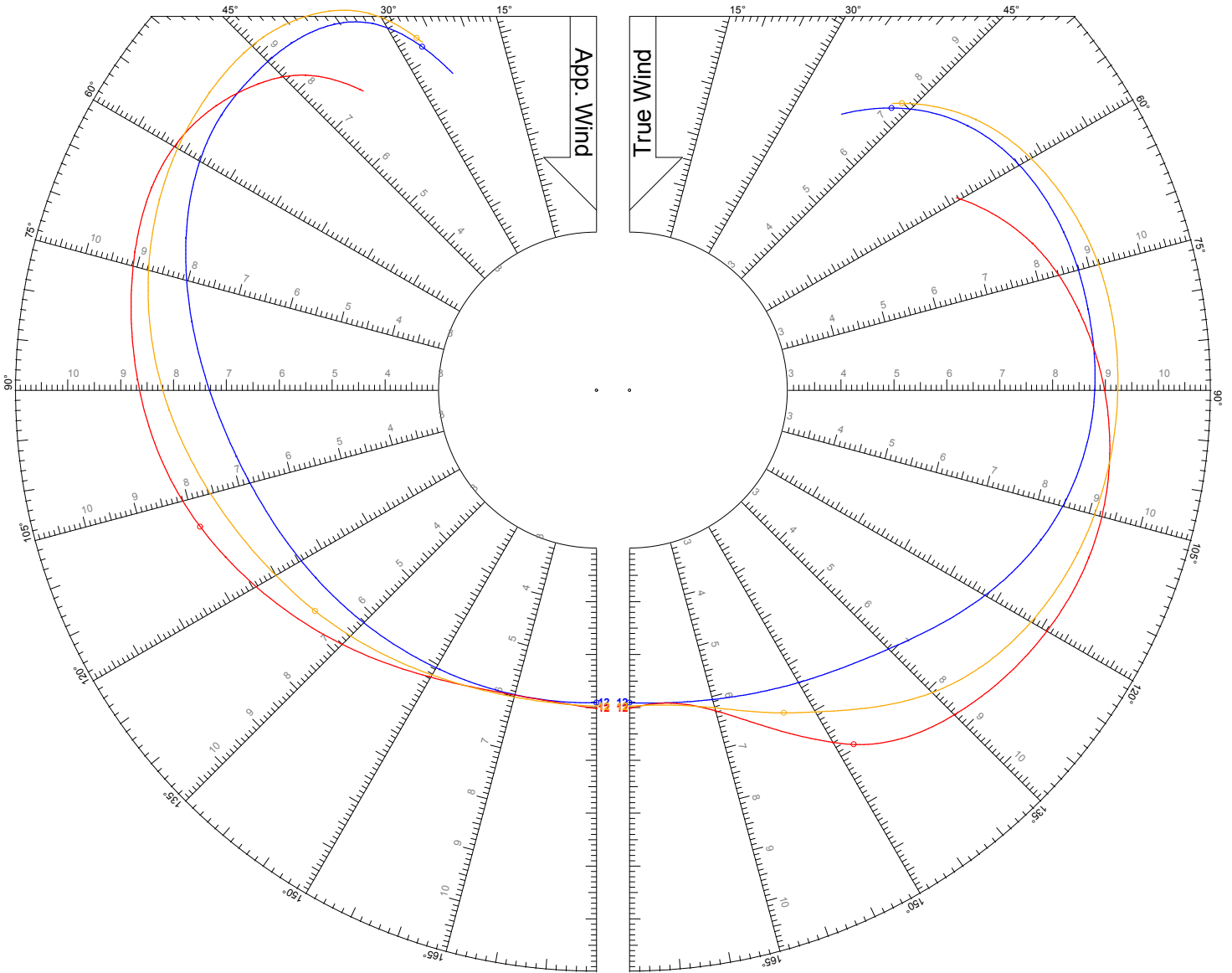
**Jib**

**Asymmetric Spinnaker on Centerline**

**Code Zero**



World Leader in Rating Technology



**TWS: 12 kts**

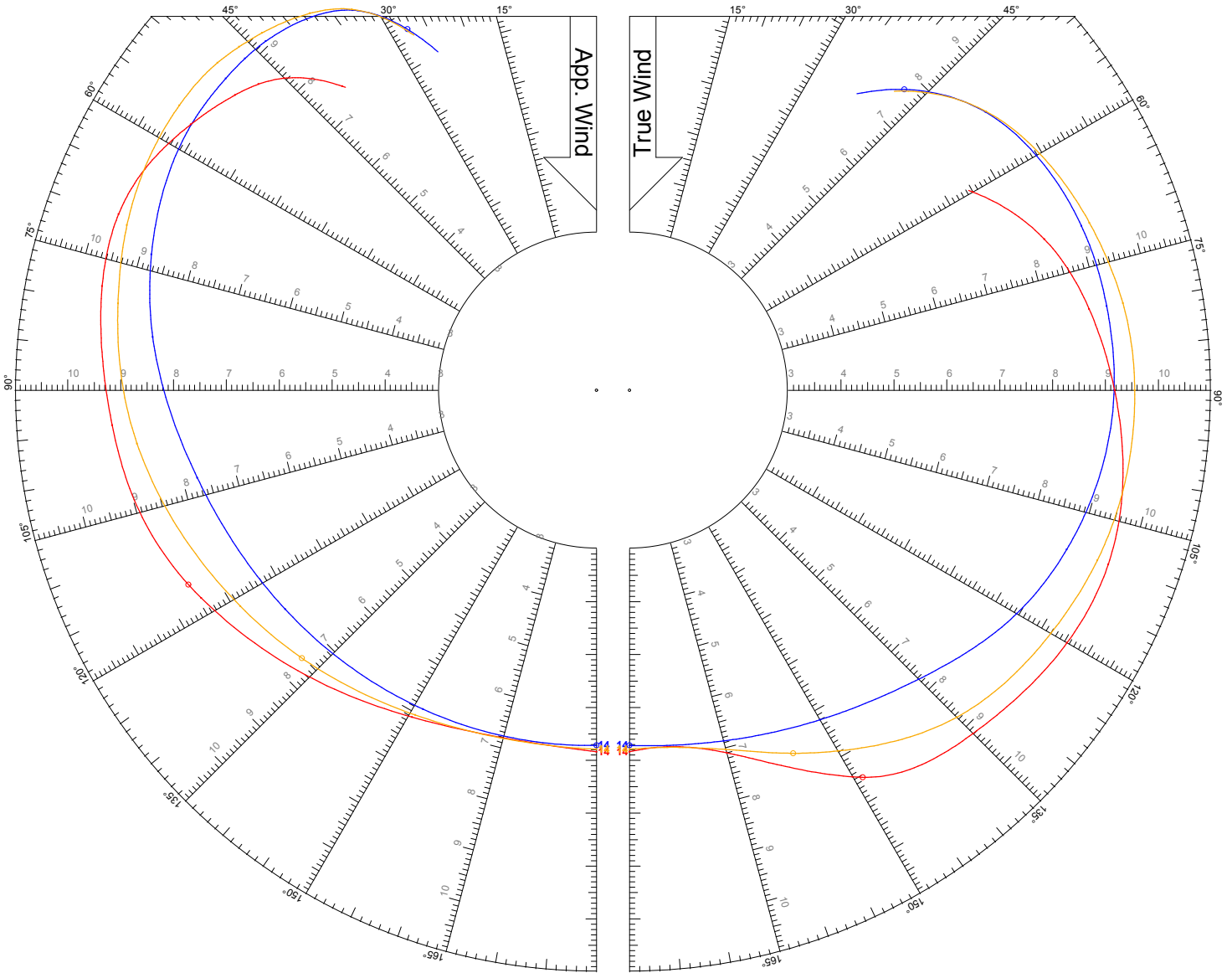
**Jib**

**Asymmetric Spinnaker on Centerline**

**Code Zero**



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**TWS: 14 kts**

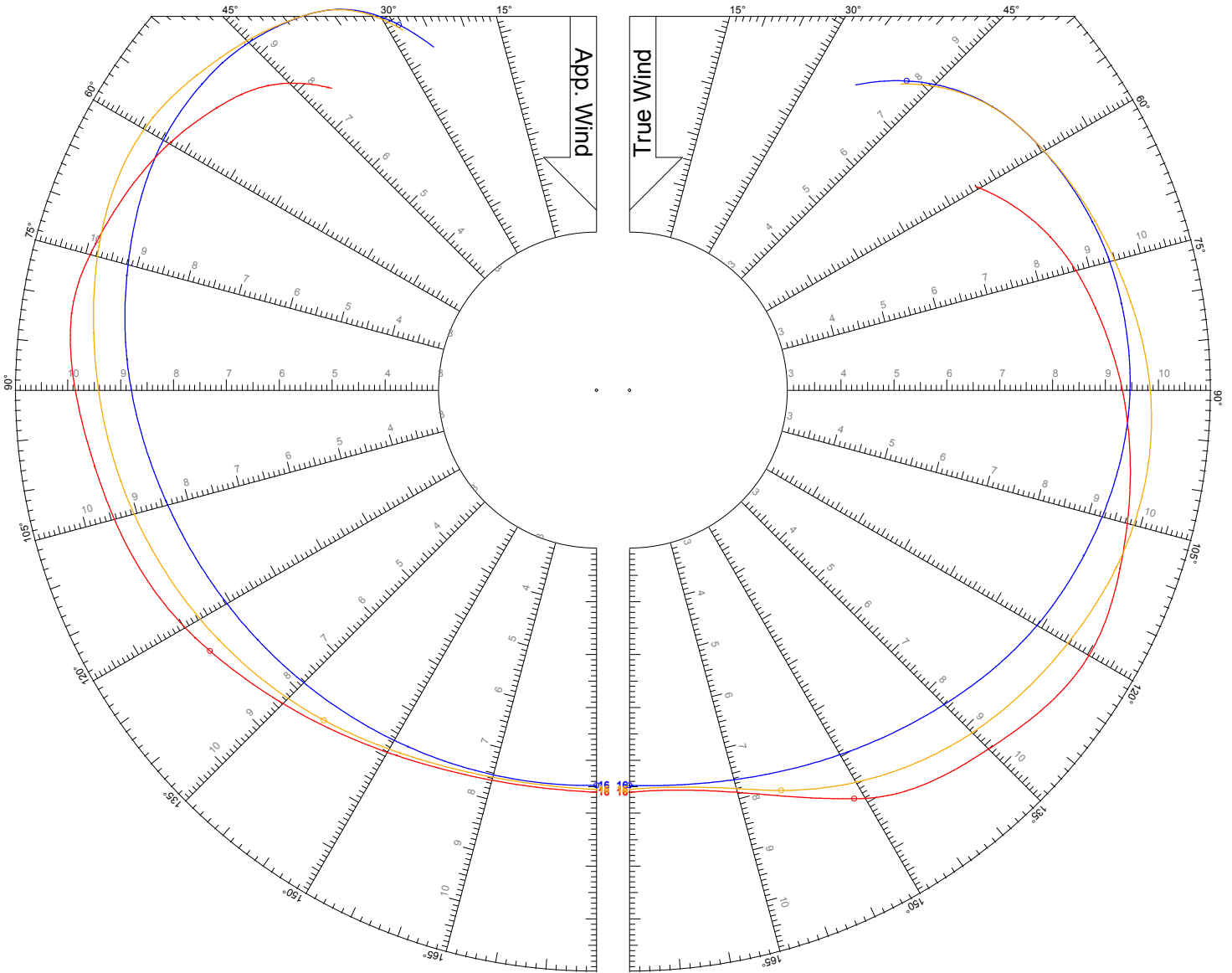
**Jib**

**Asymmetric Spinnaker on Centerline**

**Code Zero**



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**TWS: 16 kts**

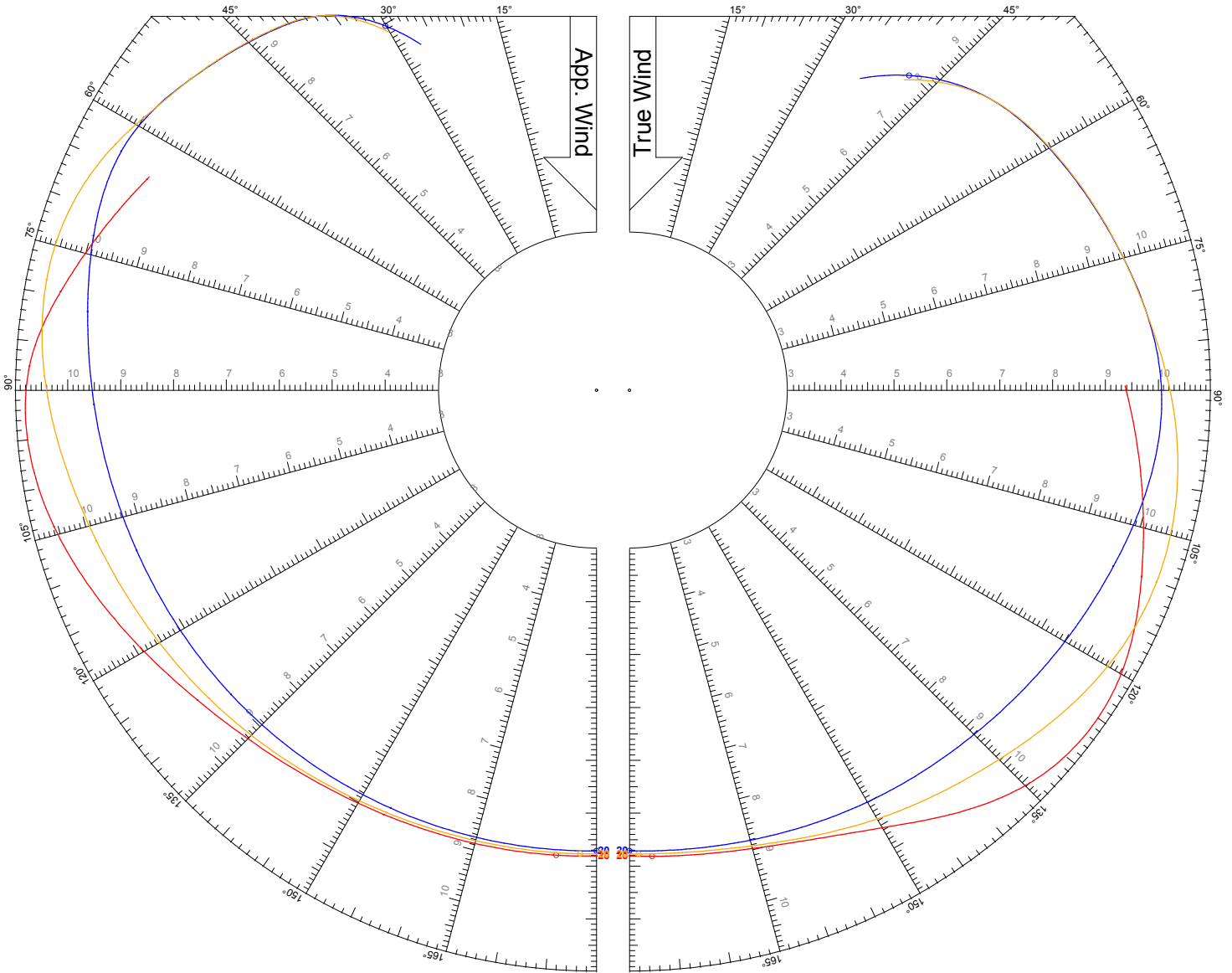
**Jib**

**Asymmetric Spinnaker on Centerline**

**Code Zero**



World Leader in Rating Technology



**TWS: 20 kts**

**Jib**

**Asymmetric Spinnaker on Centerline**

**Code Zero**



## Deep Draft Keel, Best Performance



TWS = 6 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
46.5° (b)	5.24	3.61	10.34	24.9°	5.2°	1.00	0.94
52°	5.70	3.51	10.52	26.7°	5.6°	1.00	0.95
60°	6.21	3.10	10.57	29.4°	6.0°	1.00	0.96
70°	6.62	2.26	10.34	33.0°	5.9°	1.00	0.98
75°	6.75	1.75	10.13	34.9°	5.7°	1.00	1.00
80°	6.83	1.19	9.84	36.9°	5.3°	1.00	1.00
90°	6.87	0.00	9.12	41.1°	4.4°	1.00	1.00
110°	6.21	2.12	7.00	53.6°	10.5°	1.00	1.00
120°	6.01	3.01	6.01	59.9°	8.9°	1.00	1.00
135°	5.34	3.77	4.38	75.5°	6.2°	1.00	1.00
150°	4.39	3.80	3.11	105.0°	4.6°	1.00	1.00
165°	3.30	3.18	2.94	148.2°	4.2°	1.00	1.00
180°	3.12	3.12	2.88	180.0°	4.0°	1.00	1.00
142.5° (r)	4.87	3.87	3.65	88.3°	5.2°	1.00	1.00

TWS = 8 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
45.0° (b)	6.25	4.42	13.19	25.4°	11.1°	1.00	0.94
52°	6.91	4.26	13.41	28.0°	12.2°	1.00	0.95
60°	7.47	3.74	13.40	31.1°	12.8°	1.00	0.97
70°	7.93	2.71	13.05	35.2°	12.6°	1.00	0.99
75°	8.07	2.09	12.75	37.3°	12.0°	1.00	1.00
80°	8.14	1.41	12.36	39.6°	10.9°	1.00	1.00
90°	8.14	0.00	11.41	44.5°	8.0°	1.00	1.00
110°	7.66	2.62	8.98	56.8°	12.5°	1.00	1.00
120°	7.41	3.70	7.72	63.8°	11.2°	1.00	1.00
135°	6.68	4.72	5.75	79.8°	7.7°	1.00	1.00
150°	5.67	4.91	4.19	107.4°	5.1°	1.00	1.00
165°	4.37	4.22	3.94	148.3°	4.5°	1.00	1.00
180°	4.15	4.15	3.85	180.0°	4.1°	1.00	1.00
146.6° (r)	5.92	4.94	4.47	99.8°	5.5°	1.00	1.00

TWS = 10 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
44.8° (b)	7.10	5.04	15.85	26.4°	19.0°	1.00	0.93
52°	7.85	4.83	16.07	29.4°	20.6°	1.00	0.94
60°	8.39	4.19	15.94	32.9°	21.1°	1.00	0.95
70°	8.73	2.99	15.36	37.7°	19.9°	1.00	0.98
75°	8.82	2.28	14.95	40.3°	19.1°	1.00	1.00
80°	8.86	1.54	14.46	42.9°	16.8°	1.00	1.00
90°	8.84	0.00	13.35	48.5°	12.0°	1.00	1.00
110°	8.70	2.98	10.78	60.7°	15.4°	1.00	1.00
120°	8.51	4.25	9.34	68.0°	12.6°	1.00	1.00
135°	7.83	5.54	7.11	83.9°	9.4°	1.00	1.00
150°	6.75	5.84	5.35	110.9°	5.7°	1.00	1.00
165°	5.37	5.19	5.01	148.9°	4.8°	1.00	1.00
180°	5.13	5.13	4.87	180.0°	4.1°	1.00	1.00
147.6° (r)	6.95	5.87	5.56	105.6°	6.1°	1.00	1.00

TWS = 12 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
43.5° (b)	7.48	5.43	18.17	27.0°	22.9°	1.00	0.82
52°	8.31	5.12	18.33	31.1°	24.2°	1.00	0.81
60°	8.77	4.38	18.06	35.1°	25.8°	1.00	0.85
70°	9.09	3.11	17.35	40.5°	26.5°	1.00	0.93
75°	9.18	2.38	16.89	43.3°	24.8°	1.00	0.96
80°	9.23	1.60	16.36	46.3°	23.1°	1.00	1.00
90°	9.23	0.00	15.14	52.4°	15.9°	1.00	1.00
110°	9.25	3.16	12.39	65.5°	17.6°	1.00	1.00
120°	9.11	4.56	10.85	73.3°	14.7°	1.00	1.00
135°	8.68	6.14	8.49	88.7°	10.8°	1.00	1.00
150°	7.69	6.66	6.58	114.2°	6.4°	1.00	1.00
165°	6.28	6.06	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
147.7° (r)	7.93	6.70	6.79	109.0°	6.9°	1.00	1.00

TWS = 14 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
42.4° (b)	7.71	5.69	20.36	27.6°	23.1°	1.00	0.92
52°	8.56	5.27	20.42	32.7°	25.7°	1.00	0.69
60°	8.95	4.48	20.04	37.2°	27.2°	1.00	0.74
70°	9.26	3.17	19.24	43.1°	28.3°	1.00	0.82
75°	9.37	2.43	18.76	46.1°	28.6°	1.00	0.89
80°	9.47	1.65	18.22	49.2°	27.6°	1.00	0.95
90°	9.55	0.00	16.95	55.7°	20.8°	1.00	1.00
110°	9.63	3.29	14.02	69.8°	22.0°	1.00	0.96
120°	9.55	4.78	12.39	78.1°	16.2°	1.00	1.00
135°	9.18	6.49	9.93	94.1°	11.5°	1.00	1.00
150°	8.44	7.31	7.91	117.7°	7.1°	1.00	1.00
165°	7.10	6.86	7.37	150.6°	5.6°	1.00	1.00
180°	6.84	6.84	7.16	180.0°	4.3°	1.00	1.00
148.9° (r)	8.55	7.32	8.00	115.5°	7.4°	1.00	1.00

TWS = 16 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
41.9° (b)	7.85	5.85	22.47	28.4°	24.3°	1.00	0.81
52°	8.71	5.36	22.44	34.2°	26.3°	1.00	0.85
60°	9.05	4.53	21.97	39.1°	27.8°	0.93	0.76
70°	9.36	3.20	21.12	45.4°	29.0°	0.98	0.77
75°	9.50	2.46	20.61	48.6°	29.6°	0.97	0.85
80°	9.63	1.67	20.05	51.8°	30.0°	1.00	0.87
90°	9.85	0.00	18.79	58.4°	26.9°	1.00	0.99
110°	9.87	3.38	15.67	73.7°	22.2°	0.95	0.94
120°	10.03	5.02	14.00	81.7°	18.8°	1.00	1.00
135°	9.60	6.79	11.44	98.6°	12.2°	1.00	1.00
150°	8.92	7.72	9.40	121.7°	8.0°	1.00	1.00
165°	7.88	7.61	8.64	151.3°	6.2°	1.00	1.00
180°	7.60	7.60	8.40	180.0°	4.4°	1.00	1.00
151.2° (r)	8.82	7.73	9.30	124.0°	7.8°	1.00	1.00

TWS = 20 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
41.6° (b)	7.96	5.95	26.49	30.1°	25.0°	1.00	0.62
52°	8.83	5.43	26.37	36.7°	27.0°	0.88	0.62
60°	9.18	4.59	25.84	42.1°	27.9°	0.88	0.66
70°	9.51	3.25	24.91	49.0°	29.2°	0.86	0.80
75°	9.67	2.50	24.36	52.5°	30.2°	1.00	0.87
80°	9.84	1.71	23.77	55.9°	30.3°	1.00	0.94
90°	10.22	0.00	22.46	62.9°	30.5°	0.96	0.93
110°	10.61	3.63	19.17	78.7°	22.0°	1.00	0.96
120°	10.73	5.37	17.34	87.6°	22.2°	0.95	0.95
135°	10.58	7.48	14.58	104.1°	15.0°	1.00	1.00
150°	9.56	8.28	12.66	127.8°	10.4°	1.00	1.00
165°	8.97	8.67	11.57	153.4°	7.7°	1.00	1.00
180°	8.81	8.81	11.19	180.0°	4.6°	1.00	1.00
177.2° (r)	8.83	8.82	11.19	175.0°	5.1°	1.00	1.00



TWS = 6 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
45.1° (b)	4.76	3.36	9.97	25.3°	3.5°	1.00	0.98
52°	5.25	3.23	10.14	27.9°	3.7°	1.00	1.00
60°	5.64	2.82	10.11	31.0°	3.7°	1.00	1.00
70°	5.93	2.03	9.79	35.3°	3.4°	1.00	1.00
75°	6.00	1.55	9.54	37.6°	3.3°	1.00	1.00
80°	6.03	1.05	9.23	40.0°	3.1°	1.00	1.00
90°	5.98	0.00	8.49	45.2°	2.6°	1.00	1.00
110°	5.29	1.81	6.53	60.4°	1.5°	1.00	1.00
120°	4.71	2.36	5.50	72.2°	1.0°	1.00	1.00
135°	3.86	2.73	4.32	95.8°	0.5°	1.00	1.00
150°	3.39	2.93	3.55	121.5°	0.4°	1.00	1.00
165°	3.15	3.05	3.10	149.7°	0.2°	1.00	1.00
180°	3.06	3.06	2.97	180.0°	0.0°	1.00	1.00
173.9° (r)	3.08	3.06	2.99	167.7°	0.1°	1.00	1.00

TWS = 8 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
43.6° (b)	5.77	4.18	12.83	25.4°	6.1°	1.00	0.97
52°	6.43	3.96	13.00	28.9°	6.7°	1.00	1.00
60°	6.84	3.42	12.87	32.5°	6.4°	1.00	1.00
70°	7.14	2.44	12.42	37.2°	5.6°	1.00	1.00
75°	7.22	1.87	12.09	39.7°	5.2°	1.00	1.00
80°	7.25	1.26	11.70	42.4°	4.7°	1.00	1.00
90°	7.20	0.00	10.78	48.1°	3.9°	1.00	1.00
110°	6.48	2.22	8.43	63.8°	2.2°	1.00	1.00
120°	5.92	2.96	7.24	74.9°	1.5°	1.00	1.00
135°	5.03	3.56	5.77	96.9°	0.9°	1.00	1.00
150°	4.48	3.88	4.76	121.9°	0.6°	1.00	1.00
165°	4.19	4.05	4.14	149.8°	0.3°	1.00	1.00
180°	4.07	4.07	3.97	180.0°	0.1°	1.00	1.00
175.2° (r)	4.08	4.07	3.99	170.3°	0.2°	1.00	1.00

TWS = 10 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
42.9° (b)	6.57	4.81	15.44	25.7°	11.1°	1.00	0.97
52°	7.36	4.53	15.59	29.7°	12.0°	1.00	1.00
60°	7.82	3.91	15.40	33.6°	11.5°	1.00	1.00
70°	8.12	2.78	14.82	38.8°	10.0°	1.00	1.00
75°	8.20	2.12	14.43	41.6°	9.0°	1.00	1.00
80°	8.23	1.43	13.98	44.5°	7.9°	1.00	1.00
90°	8.20	0.00	12.93	50.6°	5.6°	1.00	1.00
110°	7.46	2.55	10.27	67.0°	2.9°	1.00	1.00
120°	6.89	3.45	8.93	78.1°	2.1°	1.00	1.00
135°	6.05	4.28	7.24	98.8°	1.3°	1.00	1.00
150°	5.49	4.75	6.00	122.8°	0.9°	1.00	1.00
165°	5.16	4.99	5.24	150.2°	0.5°	1.00	1.00
180°	5.03	5.03	5.02	180.0°	0.1°	1.00	1.00
180.0° (r)	5.03	5.03	5.02	180.0°	0.1°	1.00	1.00

TWS = 12 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
42.9° (b)	7.28	5.34	17.87	25.9°	17.1°	1.00	0.96
52°	8.12	5.00	17.91	30.1°	18.3°	1.00	0.99
60°	8.51	4.26	17.57	34.3°	17.5°	1.00	1.00
70°	8.74	2.99	16.86	40.3°	14.9°	1.00	1.00
75°	8.79	2.27	16.41	43.5°	13.4°	1.00	1.00
80°	8.80	1.53	15.92	46.8°	11.8°	1.00	1.00
90°	8.80	0.00	14.82	53.6°	8.5°	1.00	1.00
110°	8.28	2.83	12.08	69.9°	3.7°	1.00	1.00
120°	7.76	3.88	10.62	80.8°	2.7°	1.00	1.00
135°	6.92	4.90	8.74	101.0°	1.8°	1.00	1.00
150°	6.39	5.53	7.31	124.1°	1.2°	1.00	1.00
165°	6.06	5.85	6.41	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
42.4° (b)	7.71	5.69	19.95	25.7°	23.1°	1.00	0.92
52°	8.54	5.26	19.83	30.3°	24.1°	1.00	0.95
60°	8.88	4.44	19.33	34.9°	23.4°	1.00	0.97
70°	9.09	3.11	18.53	41.5°	20.6°	1.00	1.00
75°	9.14	2.37	18.10	45.1°	18.4°	1.00	1.00
80°	9.16	1.59	17.62	48.8°	16.0°	1.00	1.00
90°	9.16	0.00	16.54	56.4°	11.5°	1.00	1.00
110°	8.80	3.01	13.81	73.3°	4.6°	1.00	1.00
120°	8.45	4.23	12.31	83.6°	3.3°	1.00	1.00
135°	7.73	5.47	10.27	102.9°	2.3°	1.00	1.00
150°	7.20	6.23	8.67	125.5°	1.6°	1.00	1.00
165°	6.87	6.63	7.65	151.6°	1.0°	1.00	1.00
180°	6.72	6.72	7.35	180.0°	0.3°	1.00	1.00
180.0° (r)	6.72	6.72	7.35	180.0°	0.3°	1.00	1.00

TWS = 16 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
41.9° (b)	7.85	5.85	21.90	26.1°	24.3°	1.00	0.81
52°	8.71	5.36	21.59	31.2°	26.3°	1.00	0.85
60°	9.05	4.52	20.87	35.6°	27.6°	1.00	0.91
70°	9.32	3.19	19.95	42.3°	25.8°	1.00	0.97
75°	9.40	2.43	19.46	46.0°	24.5°	1.00	1.00
80°	9.45	1.64	19.09	50.2°	21.1°	1.00	1.00
90°	9.46	0.00	18.17	58.6°	14.9°	1.00	1.00
110°	9.14	3.13	15.52	76.5°	6.0°	1.00	1.00
120°	8.90	4.45	14.00	86.7°	4.1°	1.00	1.00
135°	8.41	5.95	11.83	104.9°	2.8°	1.00	1.00
150°	7.96	6.89	10.06	126.7°	2.0°	1.00	1.00
165°	7.63	7.37	8.94	152.3°	1.2°	1.00	1.00
180°	7.47	7.47	8.60	180.0°	0.3°	1.00	1.00
180.0° (r)	7.47	7.47	8.60	180.0°	0.3°	1.00	1.00

TWS = 20 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
41.6° (b)	7.96	5.95	25.62	27.6°	25.0°	1.00	0.62
52°	8.82	5.43	25.08	33.3°	27.4°	1.00	0.66
60°	9.16	4.58	24.19	38.2°	28.7°	1.00	0.71
70°	9.50	3.25	22.85	44.7°	29.8°	1.00	0.80
75°	9.67	2.50	22.13	48.1°	30.2°	1.00	0.87
80°	9.84	1.71	21.42	51.7°	30.3°	1.00	0.94
90°	10.06	0.00	20.75	61.0°	24.5°	1.00	1.00
110°	9.74	3.33	18.84	81.3°	10.7°	1.00	1.00
120°	9.51	4.75	17.40	92.0°	6.9°	1.00	1.00
135°	9.21	6.51	15.14	109.6°	4.3°	1.00	1.00
150°	8.99	7.79	13.15	130.1°	3.0°	1.00	1.00
165°	8.81	8.51	11.82	153.9°	1.8°	1.00	1.00
180°	8.71	8.71	11.39	180.0°	0.6°	1.00	1.00
180.0° (r)	8.71	8.71	11.39	180.0°	0.6°	1.00	1.00

## Deep Draft Keel, Asymmetric Spinnaker on CL



TWS = 6 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	4.24	2.12	9.01	35.7°	10.5°	1.00	0.96
70°	5.17	1.77	9.24	38.0°	11.3°	1.00	0.97
75°	5.53	1.43	9.22	39.3°	11.6°	1.00	0.97
80°	5.82	1.01	9.11	40.8°	11.8°	1.00	0.98
90°	6.17	0.00	8.64	44.5°	11.8°	1.00	0.99
110°	6.21	2.12	7.03	54.4°	10.5°	1.00	1.00
120°	6.01	3.01	6.05	61.2°	8.9°	1.00	1.00
135°	5.34	3.77	4.46	77.6°	6.2°	1.00	1.00
150°	4.39	3.80	3.23	107.4°	4.6°	1.00	1.00
165°	3.30	3.18	3.09	149.1°	4.2°	1.00	1.00
180°	3.12	3.12	3.03	180.0°	4.0°	1.00	1.00
142.5° (r)	4.87	3.87	3.75	90.7°	5.2°	1.00	1.00

TWS = 8 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	5.49	2.75	11.85	35.9°	12.9°	1.00	0.96
70°	6.55	2.24	11.98	38.6°	14.8°	1.00	0.97
75°	6.94	1.80	11.87	40.2°	15.3°	1.00	0.97
80°	7.23	1.25	11.65	42.0°	15.5°	1.00	0.98
90°	7.58	0.00	10.98	46.3°	15.3°	1.00	1.00
110°	7.66	2.62	8.98	57.4°	12.5°	1.00	1.00
120°	7.41	3.70	7.74	64.9°	11.2°	1.00	1.00
135°	6.68	4.72	5.85	81.7°	7.7°	1.00	1.00
150°	5.67	4.91	4.36	109.7°	5.1°	1.00	1.00
165°	4.37	4.22	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
146.6° (r)	5.92	4.94	4.63	102.1°	5.5°	1.00	1.00

TWS = 10 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	6.55	3.28	14.46	36.1°	16.6°	1.00	0.96
70°	7.68	2.63	14.37	38.9°	20.4°	1.00	0.96
75°	8.04	2.08	14.11	40.7°	21.6°	1.00	0.95
80°	8.30	1.44	13.77	42.9°	21.6°	1.00	0.96
90°	8.61	0.00	12.93	48.3°	19.9°	1.00	0.98
110°	8.70	2.98	10.67	60.9°	15.4°	1.00	1.00
120°	8.51	4.25	9.33	69.0°	12.6°	1.00	1.00
135°	7.83	5.54	7.22	85.7°	9.4°	1.00	1.00
150°	6.75	5.84	5.57	113.0°	5.7°	1.00	1.00
165°	5.37	5.19	5.26	149.8°	4.8°	1.00	1.00
180°	5.13	5.13	5.12	180.0°	4.1°	1.00	1.00
147.6° (r)	6.95	5.87	5.76	107.8°	6.1°	1.00	1.00

TWS = 12 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	7.23	3.61	16.56	36.3°	22.4°	0.97	0.93
70°	8.11	2.77	16.21	40.8°	22.3°	0.92	0.93
75°	8.40	2.17	15.88	43.3°	22.3°	0.91	0.93
80°	8.63	1.50	15.46	46.0°	22.3°	0.92	0.93
90°	8.98	0.00	14.46	51.6°	22.3°	0.95	0.93
110°	9.25	3.16	12.14	65.6°	17.6°	1.00	1.00
120°	9.11	4.56	10.76	74.2°	14.7°	1.00	1.00
135°	8.68	6.14	8.59	90.4°	10.8°	1.00	1.00
150°	7.69	6.66	6.84	116.2°	6.4°	1.00	1.00
165°	6.28	6.06	6.46	150.5°	5.2°	1.00	1.00
180°	6.02	6.02	6.28	180.0°	4.2°	1.00	1.00
147.7° (r)	7.93	6.70	7.03	111.0°	6.9°	1.00	1.00

TWS = 14 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	7.49	3.75	18.44	37.9°	22.4°	0.87	0.93
70°	8.35	2.86	17.99	42.9°	22.3°	0.83	0.93
75°	8.62	2.23	17.59	45.8°	22.3°	0.84	0.93
80°	8.83	1.53	17.11	48.8°	22.3°	0.85	0.93
90°	9.17	0.00	16.00	55.0°	22.3°	0.87	0.94
110°	9.63	3.29	13.37	69.3°	22.0°	1.00	0.96
120°	9.55	4.78	12.21	78.9°	16.2°	1.00	1.00
135°	9.18	6.49	10.05	95.8°	11.5°	1.00	1.00
150°	8.44	7.31	8.22	119.5°	7.1°	1.00	1.00
165°	7.10	6.86	7.72	151.4°	5.6°	1.00	1.00
180°	6.84	6.84	7.51	180.0°	4.3°	1.00	1.00
148.9° (r)	8.55	7.32	8.30	117.3°	7.4°	1.00	1.00

TWS = 16 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	7.65	3.82	20.27	39.3°	22.6°	0.81	0.85
70°	8.47	2.90	19.72	44.9°	22.8°	0.81	0.81
75°	8.74	2.26	19.28	48.0°	22.7°	0.81	0.82
80°	8.95	1.55	18.75	51.2°	22.6°	0.81	0.85
90°	9.32	0.00	17.54	57.9°	22.5°	0.81	0.93
110°	9.87	3.38	14.84	73.2°	22.2°	0.95	0.94
120°	10.03	5.02	13.59	82.3°	18.8°	1.00	1.00
135°	9.60	6.79	11.57	100.2°	12.2°	1.00	1.00
150°	8.92	7.72	9.75	123.2°	8.0°	1.00	1.00
165°	7.88	7.61	9.03	152.1°	6.2°	1.00	1.00
180°	7.60	7.60	8.80	180.0°	4.4°	1.00	1.00
151.2° (r)	8.82	7.73	9.65	125.5°	7.8°	1.00	1.00

TWS = 20 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	-0.01	-0.01	18.61	57.4°	25.5°	0.81	0.62
70°	-0.01	0.00	18.34	68.1°	25.5°	0.81	0.62
75°	-0.01	0.00	18.24	73.5°	25.5°	0.81	0.62
80°	-0.01	0.00	18.17	79.0°	25.5°	0.81	0.62
90°	9.39	0.00	20.78	63.1°	22.8°	0.81	0.65
110°	10.30	3.52	17.89	79.0°	22.2°	0.84	0.94
120°	10.73	5.37	16.37	88.1°	22.2°	0.95	0.95
135°	10.58	7.48	14.59	105.8°	15.0°	1.00	1.00
150°	9.56	8.28	13.03	129.2°	10.4°	1.00	1.00
165°	8.97	8.67	12.05	154.1°	7.7°	1.00	1.00
180°	8.81	8.81	11.69	180.0°	4.6°	1.00	1.00
177.2° (r)	8.83	8.82	11.69	175.2°	5.1°	1.00	1.00



TWS = 6 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
46.5° (b)	5.24	3.61	10.38	24.9°	5.2°	1.00	0.94
52°	5.70	3.51	10.56	26.7°	5.6°	1.00	0.95
60°	6.21	3.10	10.60	29.4°	6.0°	1.00	0.96
70°	6.62	2.26	10.37	33.1°	5.9°	1.00	0.98
75°	6.75	1.75	10.15	35.0°	5.7°	1.00	1.00
80°	6.83	1.19	9.87	37.0°	5.3°	1.00	1.00
90°	6.87	0.00	9.14	41.3°	4.4°	1.00	1.00
110°	6.12	2.09	6.98	54.6°	2.4°	1.00	1.00
120°	5.63	2.82	5.84	63.8°	6.8°	1.00	1.00
135°	4.79	3.39	4.32	83.6°	5.2°	1.00	1.00
150°	3.86	3.34	3.36	115.0°	4.4°	1.00	1.00
165°	3.26	3.15	3.07	149.1°	4.1°	1.00	1.00
180°	3.10	3.10	2.98	180.0°	0.0°	1.00	1.00
140.7° (r)	4.44	3.43	3.86	94.2°	4.8°	1.00	1.00

TWS = 8 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
45.0° (b)	6.25	4.42	13.19	25.1°	11.1°	1.00	0.94
52°	6.91	4.26	13.39	27.6°	12.2°	1.00	0.95
60°	7.47	3.74	13.36	30.6°	12.8°	1.00	0.97
70°	7.93	2.71	12.99	34.6°	12.6°	1.00	0.99
75°	8.07	2.09	12.69	36.9°	12.0°	1.00	1.00
80°	8.14	1.41	12.32	39.3°	10.9°	1.00	1.00
90°	8.14	0.00	11.40	44.5°	8.0°	1.00	1.00
110°	7.29	2.49	8.83	59.2°	3.3°	1.00	1.00
120°	6.98	3.49	7.54	67.3°	8.4°	1.00	1.00
135°	6.08	4.30	5.73	86.7°	6.0°	1.00	1.00
150°	5.05	4.38	4.51	116.1°	4.7°	1.00	1.00
165°	4.33	4.18	4.11	149.3°	4.3°	1.00	1.00
180°	4.12	4.12	3.99	180.0°	0.1°	1.00	1.00
143.2° (r)	5.52	4.42	4.95	101.5°	5.1°	1.00	1.00

TWS = 10 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
44.8° (b)	7.10	5.04	15.70	25.2°	19.0°	1.00	0.93
52°	7.85	4.83	15.84	27.8°	20.6°	1.00	0.94
60°	8.39	4.19	15.65	31.1°	21.1°	1.00	0.95
70°	8.73	2.99	15.05	36.1°	19.9°	1.00	0.98
75°	8.82	2.28	14.64	38.7°	19.1°	1.00	1.00
80°	8.86	1.54	14.22	41.8°	16.8°	1.00	1.00
90°	8.84	0.00	13.24	48.1°	12.0°	1.00	1.00
110°	8.36	2.86	10.53	62.3°	11.9°	1.00	1.00
120°	8.07	4.03	9.15	70.9°	10.3°	1.00	1.00
135°	7.14	5.05	7.13	90.3°	6.9°	1.00	1.00
150°	6.10	5.29	5.74	118.1°	5.2°	1.00	1.00
165°	5.32	5.14	5.21	149.8°	4.5°	1.00	1.00
180°	5.09	5.09	5.05	180.0°	0.1°	1.00	1.00
150.1° (r)	6.10	5.29	5.73	118.2°	5.1°	1.00	1.00

TWS = 12 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
43.5° (b)	7.48	5.43	17.86	25.2°	22.9°	1.00	0.82
52°	8.31	5.12	17.87	28.7°	24.2°	1.00	0.81
60°	8.77	4.38	17.44	32.3°	25.8°	1.00	0.85
70°	9.09	3.11	16.57	37.3°	26.5°	1.00	0.93
75°	9.18	2.38	16.16	40.5°	24.8°	1.00	0.96
80°	9.23	1.60	15.69	43.9°	23.1°	1.00	1.00
90°	9.23	0.00	14.83	51.5°	15.9°	1.00	1.00
110°	9.02	3.08	12.16	66.5°	12.9°	1.00	1.00
120°	8.77	4.38	10.68	75.5°	11.4°	1.00	1.00
135°	8.09	5.72	8.55	93.6°	8.0°	1.00	1.00
150°	7.03	6.08	7.02	120.2°	5.7°	1.00	1.00
165°	6.22	6.01	6.40	150.5°	4.7°	1.00	1.00
180°	5.98	5.98	6.18	180.0°	0.2°	1.00	1.00
154.4° (r)	6.76	6.10	6.74	129.0°	5.3°	1.00	1.00

TWS = 14 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
42.9° (b)	7.73	5.66	19.89	25.8°	24.2°	1.00	0.69
52°	8.56	5.27	19.75	30.0°	25.7°	1.00	0.69
60°	8.95	4.48	19.15	33.9°	27.2°	1.00	0.74
70°	9.26	3.17	18.12	39.4°	28.3°	1.00	0.82
75°	9.37	2.43	17.53	42.3°	28.6°	1.00	0.89
80°	9.47	1.65	17.01	45.6°	27.6°	1.00	0.95
90°	9.55	0.00	16.23	53.9°	20.8°	1.00	1.00
110°	9.41	3.22	13.68	70.5°	14.7°	1.00	1.00
120°	9.20	4.60	12.20	80.1°	12.2°	1.00	1.00
135°	8.75	6.19	10.01	97.5°	9.2°	1.00	1.00
150°	7.88	6.82	8.35	122.1°	6.3°	1.00	1.00
165°	7.03	6.79	7.66	151.4°	5.0°	1.00	1.00
180°	6.79	6.79	7.39	180.0°	0.3°	1.00	1.00
155.8° (r)	7.53	6.87	7.97	133.1°	5.7°	1.00	1.00

TWS = 16 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
42.4° (b)	7.84	5.79	21.80	26.3°	25.0°	0.98	0.62
52°	8.70	5.36	21.53	31.1°	26.9°	0.99	0.62
60°	9.05	4.53	20.79	35.5°	27.8°	0.93	0.76
70°	9.36	3.20	19.67	41.3°	29.0°	0.98	0.77
75°	9.50	2.46	19.00	44.3°	29.6°	0.97	0.85
80°	9.63	1.67	18.34	47.5°	30.0°	1.00	0.87
90°	9.85	0.00	17.31	55.3°	26.9°	1.00	0.99
110°	9.80	3.35	15.23	73.8°	16.1°	1.00	1.00
120°	9.57	4.79	13.76	83.9°	13.2°	1.00	1.00
135°	9.16	6.48	11.53	101.6°	10.4°	1.00	1.00
150°	8.56	7.41	9.77	124.4°	7.1°	1.00	1.00
165°	7.80	7.53	8.96	152.1°	5.3°	1.00	1.00
180°	7.55	7.55	8.66	180.0°	0.4°	1.00	1.00
159.2° (r)	8.10	7.57	9.14	141.1°	5.8°	1.00	1.00

TWS = 20 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
42.8° (b)	7.99	5.87	25.41	28.3°	24.8°	0.86	0.62
52°	8.83	5.43	24.98	33.4°	27.0°	0.88	0.62
60°	9.18	4.59	24.15	38.3°	27.9°	0.88	0.66
70°	9.51	3.25	22.80	44.7°	29.2°	0.86	0.80
75°	9.67	2.50	22.05	48.0°	30.0°	0.88	0.84
80°	9.83	1.71	21.35	51.7°	30.2°	0.91	0.85
90°	10.22	0.00	19.88	59.1°	30.5°	0.96	0.93
110°	10.61	3.63	17.96	78.1°	22.0°	1.00	0.96
120°	10.44	5.22	16.84	88.9°	16.2°	1.00	1.00
135°	9.88	6.98	14.73	107.7°	11.8°	1.00	1.00
150°	9.36	8.11	12.98	129.4°	9.0°	1.00	1.00
165°	8.92	8.62	11.87	153.8°	1.8°	1.00	1.00
180°	8.77	8.77	11.49	180.0°	0.6°	1.00	1.00
178.9° (r)	8.77	8.77	11.49	178.0°	0.7°	1.00	1.00