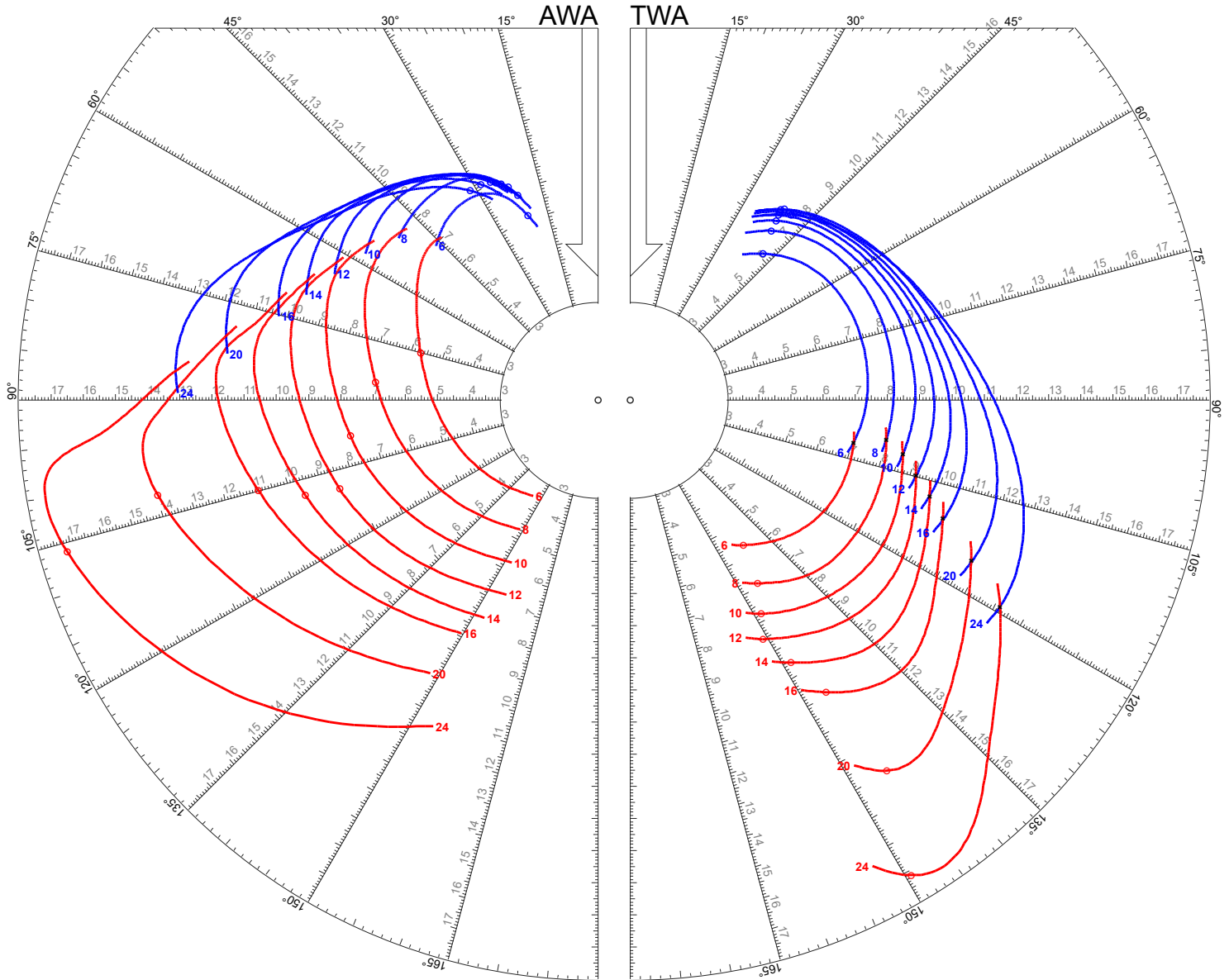


Speed Guide



Name **ETE**
Sail #
Class **ETE**
Designer **Thomas TISON**
Builder

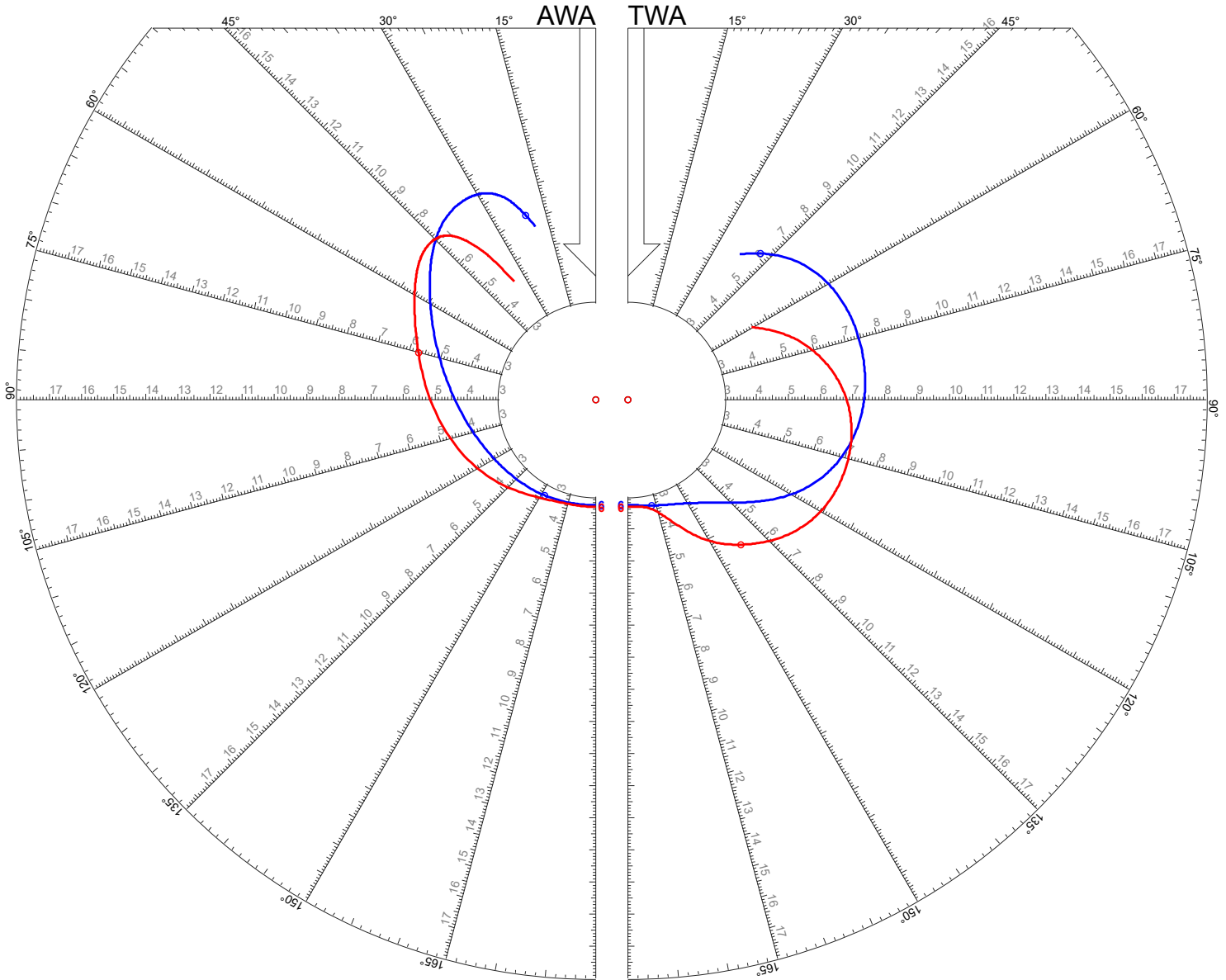
This page contains the polar curves for all wind speeds. The curves are trimmed to highlight the intersection points between different sails. The legend describes the type of sails, also mentioning the sail area when applicable.

TWS: 6,8,10,12,14,16,20,24

Headsail, 44.62 m² (id = J0)

Asymmetric on Centerline, 167.08 m² (id = A0)

Speed Guide

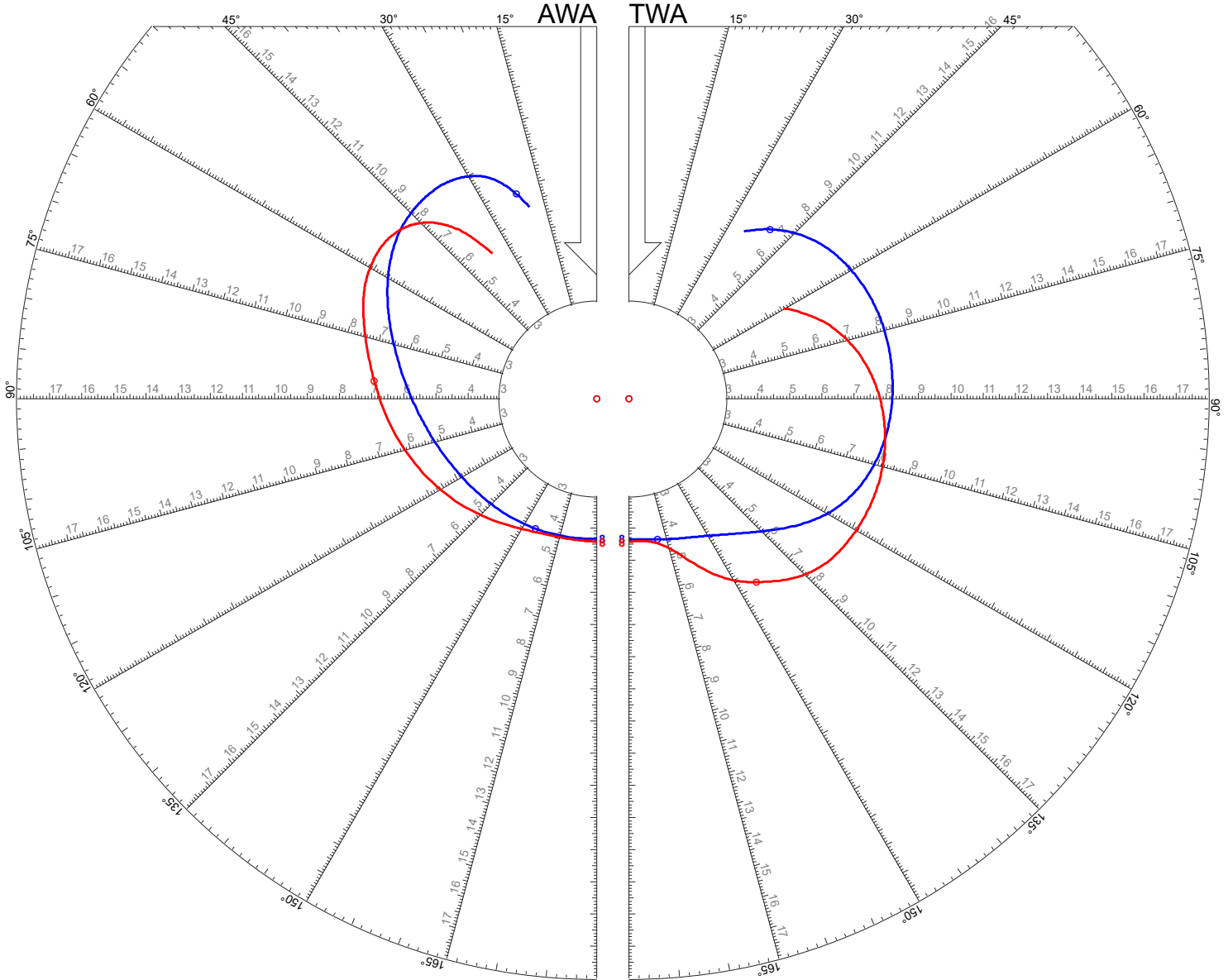


Name **ETE**
Sail #
Class **ETE**
Designer **Thomas TISON**
Builder

This page contains the polar curves for the specified true wind speed. The curves and the corresponding areas in the legend refer to the **largest headsail** or **asymmetric** spinnaker. The area of the respective sails is shown in the legend.

TWS: 6

- **Headsail, 44.62 m² (id = J0)**
- **Asymmetric on Centerline, 167.08 m² (id = A0)**



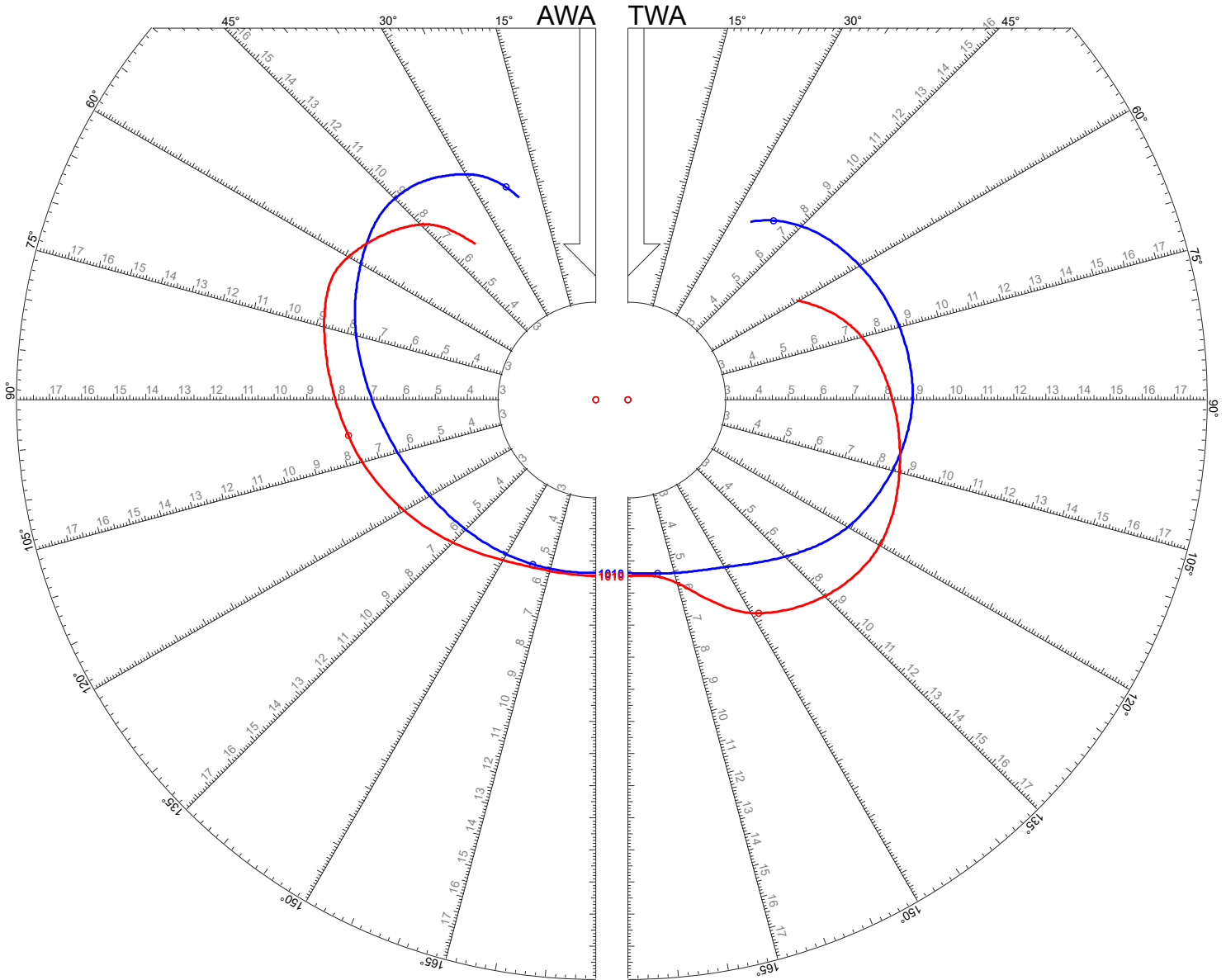
Name **ETE**
 Sail #
 Class **ETE**
 Designer **Thomas TISON**
 Builder

This page contains the polar curves for the specified true wind speed. The curves and the corresponding areas in the legend refer to the **largest headsail** or **asymmetric** spinnaker. The area of the respective sails is shown in the legend.

TWS: 8

- **Headsail, 44.62 m² (id = J0)**
- **Asymmetric on Centerline, 167.08 m² (id = A0)**

Speed Guide

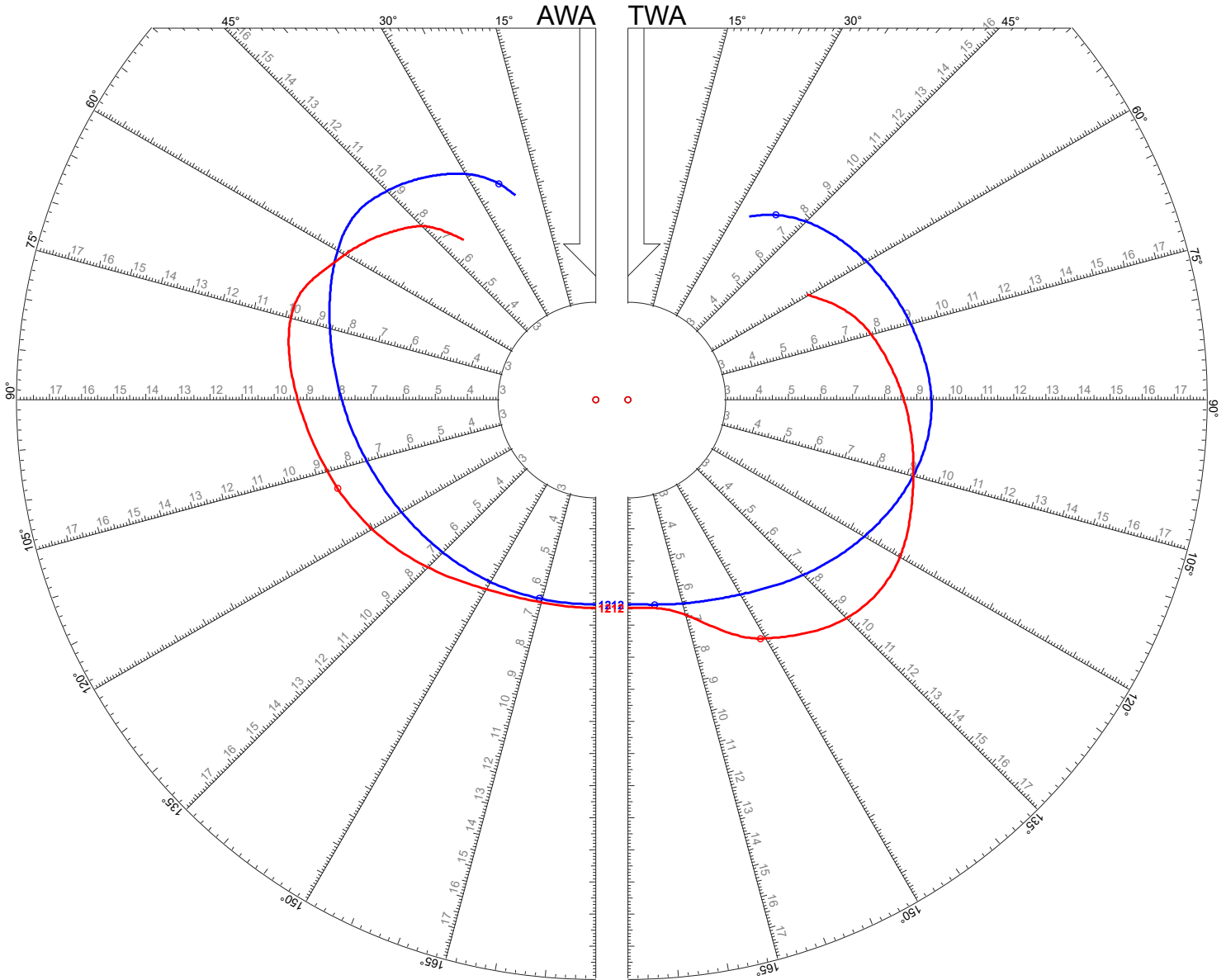


Name **ETE**
Sail #
Class **ETE**
Designer **Thomas TISON**
Builder

This page contains the polar curves for the specified true wind speed. The curves and the corresponding areas in the legend refer to the **largest headsail** or **asymmetric** spinnaker. The area of the respective sails is shown in the legend.

TWS: 10

- **Headsail, 44.62 m² (id = J0)**
- **Asymmetric on Centerline, 167.08 m² (id = A0)**



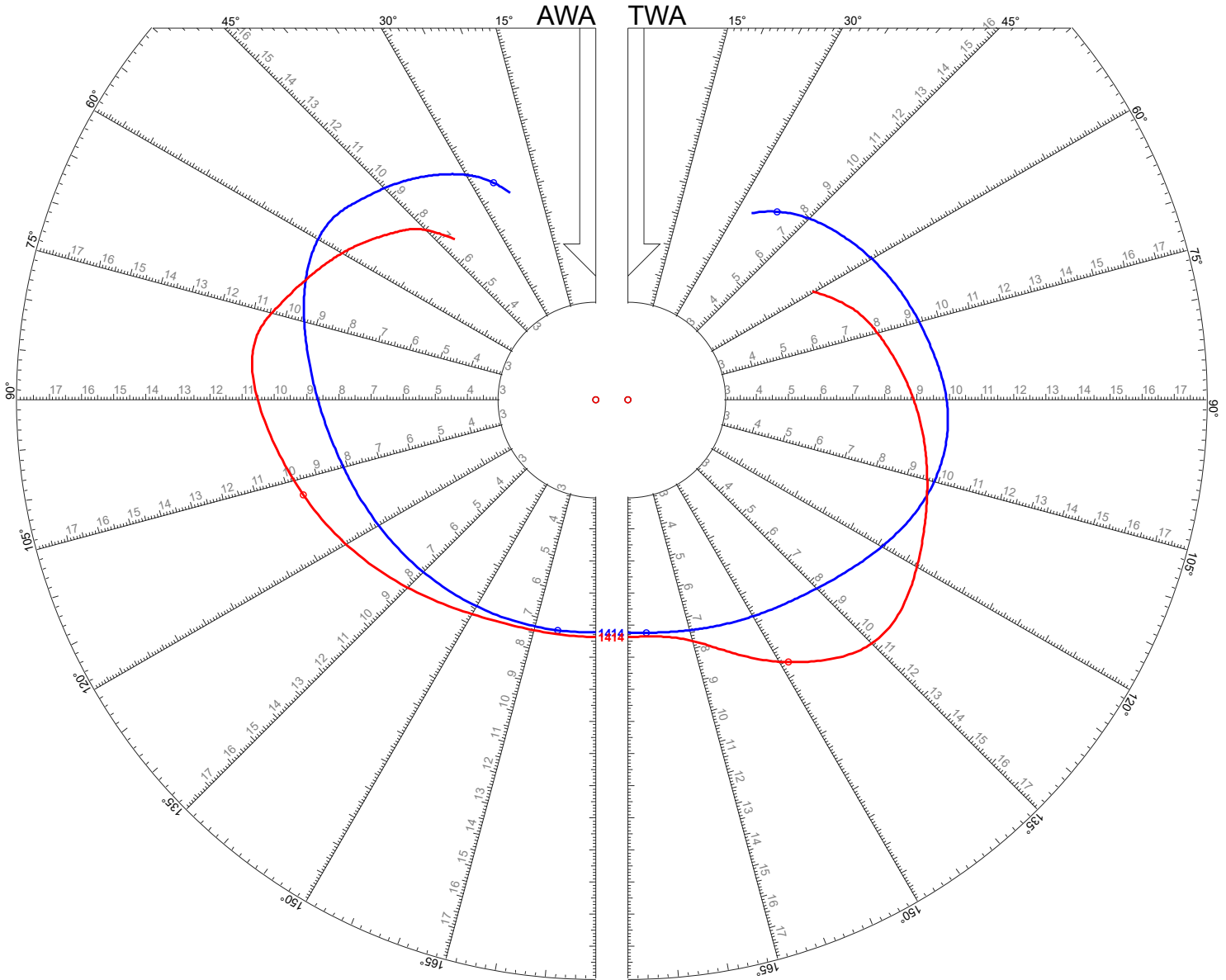
Name **ETE**
Sail #
Class **ETE**
Designer **Thomas TISON**
Builder

This page contains the polar curves for the specified true wind speed. The curves and the corresponding areas in the legend refer to the **largest headsail** or **asymmetric** spinnaker. The area of the respective sails is shown in the legend.

TWS: 12

- **Headsail, 44.62 m² (id = J0)**
- **Asymmetric on Centerline, 167.08 m² (id = A0)**

Speed Guide



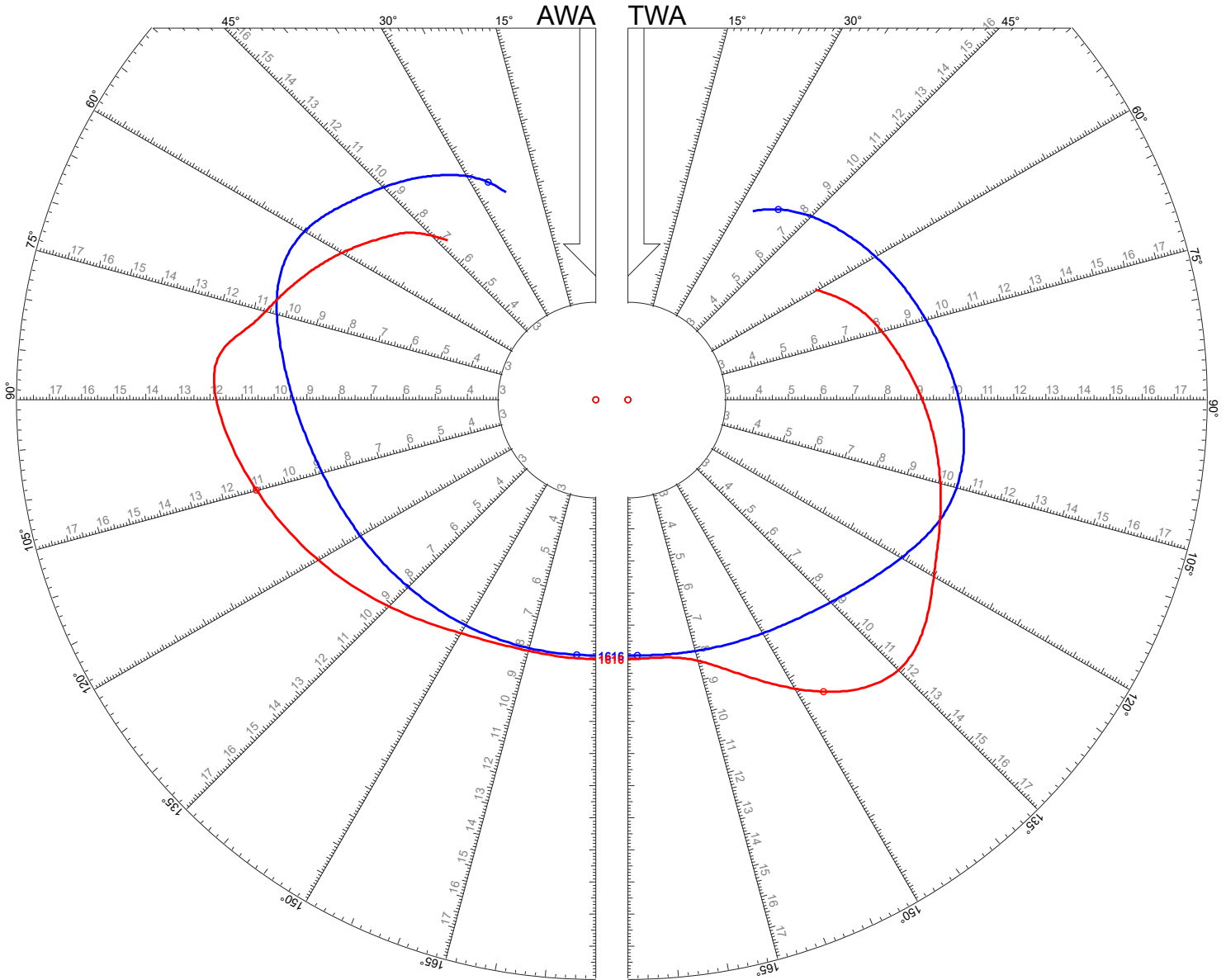
Name **ETE**
Sail #
Class **ETE**
Designer **Thomas TISON**
Builder

This page contains the polar curves for the specified true wind speed. The curves and the corresponding areas in the legend refer to the **largest headsail** or **asymmetric** spinnaker. The area of the respective sails is shown in the legend.

TWS: 14

- **Headsail, 44.62 m² (id = J0)**
- **Asymmetric on Centerline, 167.08 m² (id = A0)**

Speed Guide



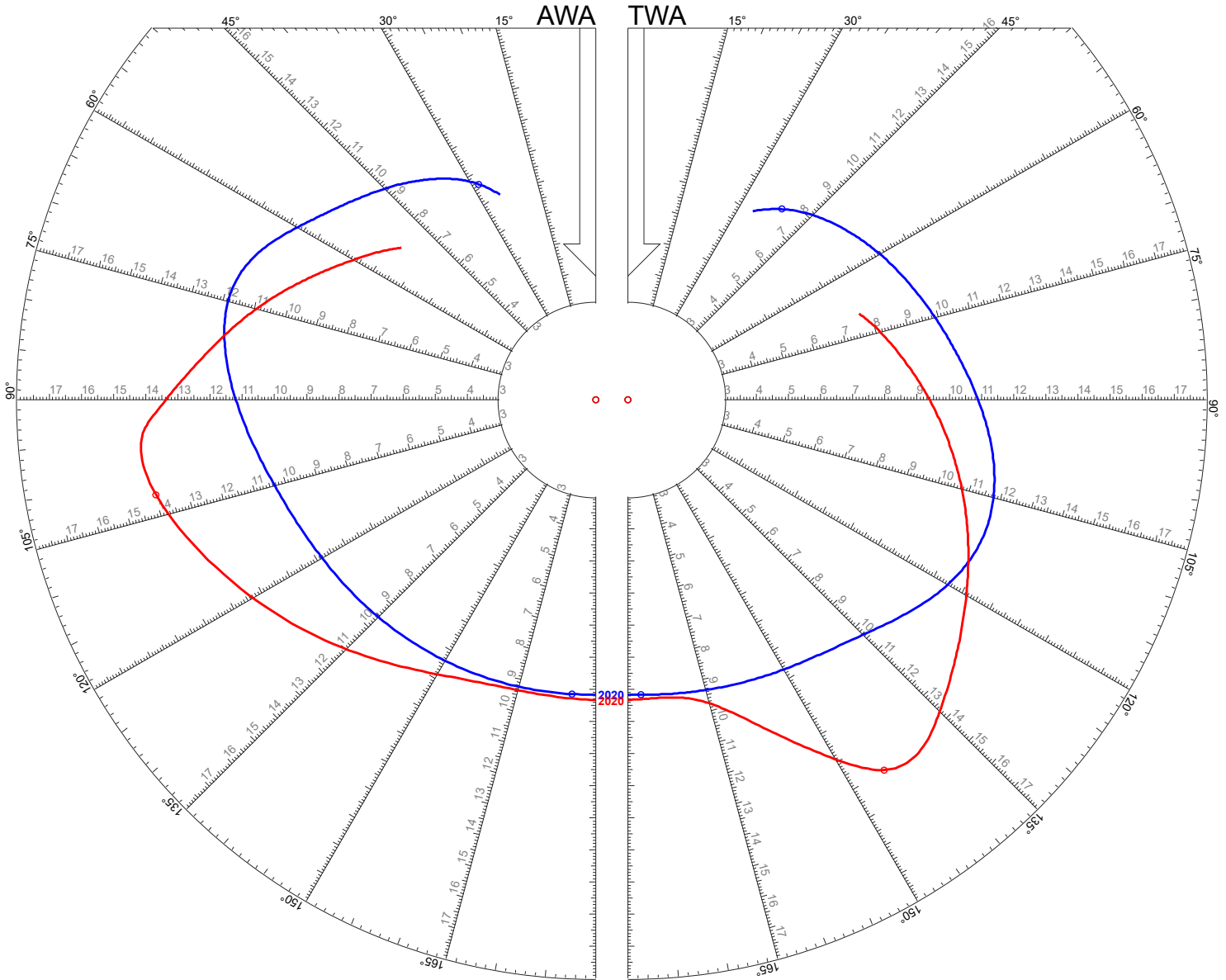
Name **ETE**
Sail #
Class **ETE**
Designer **Thomas TISON**
Builder

This page contains the polar curves for the specified true wind speed. The curves and the corresponding areas in the legend refer to the **largest headsail** or **asymmetric** spinnaker. The area of the respective sails is shown in the legend.

TWS: 16

- **Headsail, 44.62 m² (id = J0)**
- **Asymmetric on Centerline, 167.08 m² (id = A0)**

Speed Guide

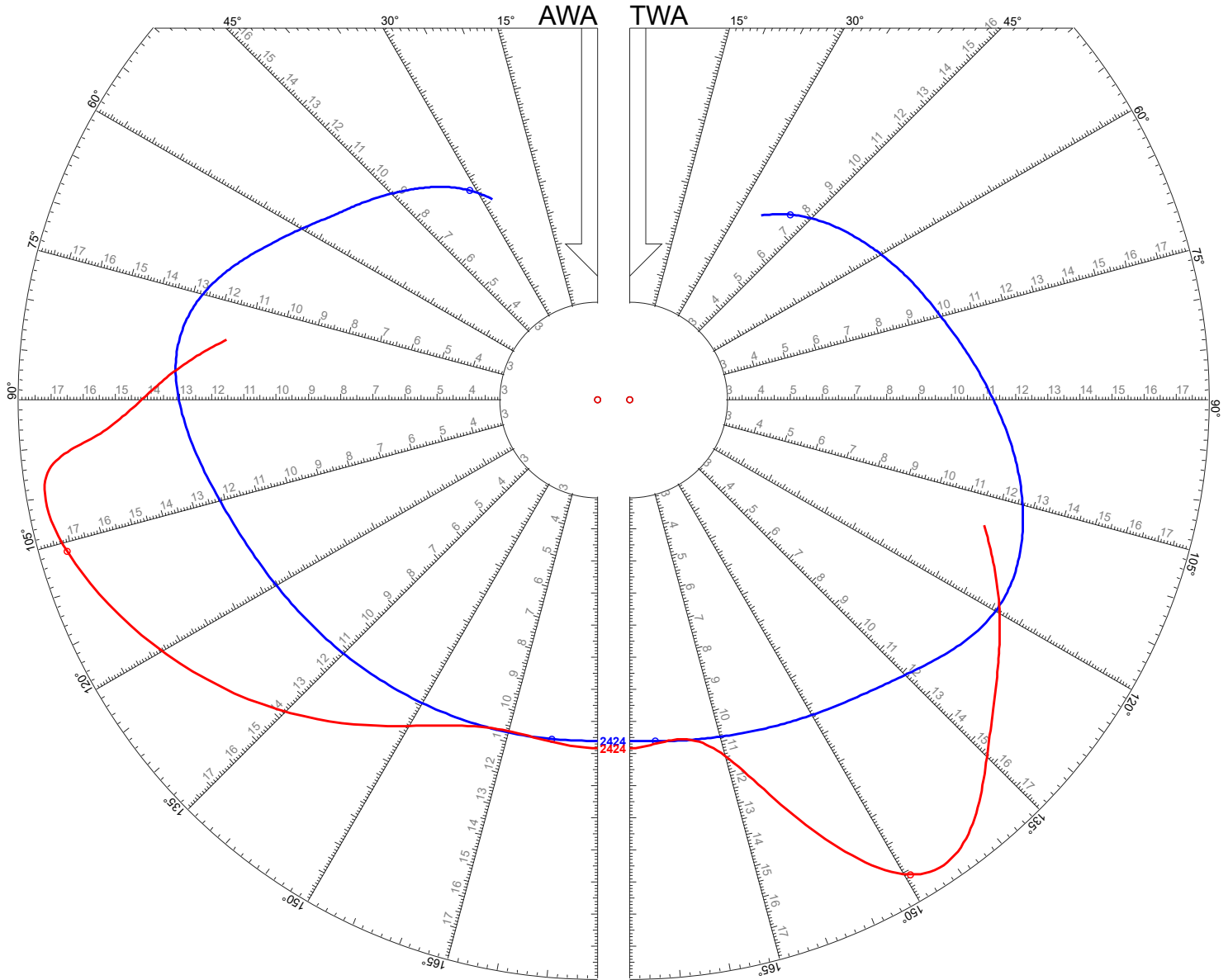


Name **ETE**
Sail #
Class **ETE**
Designer **Thomas TISON**
Builder

This page contains the polar curves for the specified true wind speed. The curves and the corresponding areas in the legend refer to the **largest headsail** or **asymmetric** spinnaker. The area of the respective sails is shown in the legend.

TWS: 20

- **Headsail, 44.62 m² (id = J0)**
- **Asymmetric on Centerline, 167.08 m² (id = A0)**



Name **ETE**
Sail #
Class **ETE**
Designer **Thomas TISON**
Builder

This page contains the polar curves for the specified true wind speed. The curves and the corresponding areas in the legend refer to the **largest headsail** or **asymmetric** spinnaker. The area of the respective sails is shown in the legend.

TWS: 24

- **Headsail, 44.62 m² (id = J0)**
- **Asymmetric on Centerline, 167.08 m² (id = A0)**



ETE

ETE

Best Performance

TWS = 6kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
42.1°	6.15	4.56	11.32	20.5°	10.0°	1.00	1.00
52°	6.88	4.23	11.54	23.7°	11.3°	1.00	1.00
60°	7.21	3.61	11.42	26.6°	10.7°	1.00	1.00
70°	7.41	2.53	10.98	30.5°	8.6°	1.00	1.00
75°	7.44	1.93	10.67	32.6°	7.4°	1.00	1.00
80°	7.44	1.29	10.32	34.7°	6.0°	1.00	1.00
90°	7.35	0.00	9.48	39.2°	3.1°	1.00	1.00
110°	7.09	2.43	7.53	48.0°	6.8°	1.00	0.97
120°	6.93	3.46	6.51	52.9°	3.1°	1.00	1.00
135°	6.21	4.39	4.68	65.2°	0.0°	1.00	1.00
142.0°	5.71	4.50	3.83	75.0°	0.0°	1.00	1.00
150°	5.06	4.38	3.00	92.5°	0.0°	1.00	1.00
165°	3.62	3.49	2.68	144.5°	1.7°	1.00	1.00
180°	3.33	3.33	2.67	180.0°	2.9°	1.00	1.00

TWS = 8kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
39.7°	6.85	5.27	13.88	20.5°	18.2°	1.00	0.93
52°	7.71	4.74	13.95	25.1°	20.1°	1.00	0.94
60°	7.99	3.99	13.65	28.6°	19.5°	1.00	0.97
70°	8.18	2.80	13.06	33.3°	17.7°	1.00	1.00
75°	8.22	2.13	12.70	35.9°	15.7°	1.00	1.00
80°	8.23	1.43	12.29	38.5°	13.6°	1.00	1.00
90°	8.18	0.00	11.37	44.0°	9.3°	1.00	1.00
110°	8.19	2.80	9.05	52.9°	16.3°	1.00	0.97
120°	8.15	4.08	7.96	58.5°	11.4°	1.00	1.00
135°	7.72	5.46	6.02	70.0°	1.0°	1.00	1.00
145.1°	6.93	5.69	4.59	85.4°	0.0°	1.00	1.00
150°	6.51	5.63	4.02	96.0°	0.1°	1.00	1.00
165°	4.79	4.63	3.59	144.8°	2.0°	1.00	1.00
180°	4.43	4.43	3.57	180.0°	3.5°	1.00	1.00

TWS = 10kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
39.1°	7.19	5.58	16.09	21.7°	19.6°	0.86	0.80
52°	8.03	4.94	15.95	27.2°	22.2°	0.87	0.84
60°	8.34	4.17	15.52	30.8°	23.6°	0.86	0.90
70°	8.65	2.96	14.82	35.5°	23.7°	1.00	0.94
75°	8.76	2.27	14.44	38.2°	22.5°	1.00	0.96
80°	8.82	1.53	14.00	41.0°	21.1°	1.00	0.98
90°	8.86	0.00	13.06	47.3°	16.2°	1.00	1.00
110°	8.89	3.04	10.29	57.9°	21.9°	0.97	0.93
120°	9.05	4.52	9.14	63.7°	18.8°	1.00	0.98
135°	8.64	6.11	7.22	77.4°	5.0°	1.00	1.00
148.5°	7.78	6.63	5.28	98.1°	0.6°	1.00	1.00
150°	7.66	6.63	5.10	101.4°	0.8°	1.00	1.00
165°	5.89	5.69	4.57	145.5°	2.4°	1.00	1.00
180°	5.47	5.47	4.53	180.0°	4.5°	1.00	1.00

TWS = 12kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
38.7°	7.37	5.76	18.16	22.8°	20.3°	0.54	0.73
52°	8.23	5.07	17.87	29.1°	23.3°	0.70	0.77
60°	8.58	4.29	17.38	33.0°	24.5°	0.69	0.82
70°	8.96	3.06	16.56	37.9°	25.5°	0.76	0.88
75°	9.11	2.36	16.07	40.5°	25.9°	0.77	0.92
80°	9.25	1.61	15.58	43.3°	25.3°	0.88	0.94
90°	9.45	0.00	14.58	49.6°	22.2°	1.00	0.98
110°	9.40	3.22	11.72	63.1°	22.0°	0.88	0.94
120°	9.77	4.89	10.35	68.6°	22.0°	0.97	0.94
135°	9.61	6.79	8.44	82.4°	9.8°	1.00	1.00
150°	8.56	7.42	6.27	107.0°	1.8°	1.00	1.00
151.0°	8.49	7.42	6.16	108.9°	1.7°	1.00	1.00
165°	6.92	6.68	5.61	146.4°	3.2°	1.00	1.00
180°	6.47	6.47	5.53	180.0°	4.9°	1.00	1.00

TWS = 14kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
38.4°	7.48	5.86	20.16	23.8°	20.6°	0.50	0.65
52°	8.38	5.16	19.77	30.7°	23.8°	0.50	0.71
60°	8.77	4.39	19.21	34.8°	25.2°	0.50	0.75
70°	9.20	3.15	18.31	40.2°	26.1°	0.50	0.82
75°	9.39	2.43	17.79	43.0°	26.1°	0.50	0.86
80°	9.57	1.66	17.21	45.8°	26.6°	0.50	0.90
90°	9.92	0.00	16.05	51.8°	25.7°	0.86	0.94
110°	9.88	3.38	13.22	67.3°	22.0°	0.81	0.94
120°	10.38	5.19	11.74	73.2°	22.0°	0.90	0.94
135°	10.72	7.58	9.58	85.1°	15.4°	1.00	1.00
148.5°	9.56	8.15	7.69	107.9°	2.0°	1.00	1.00
150°	9.40	8.14	7.51	111.3°	2.1°	1.00	1.00
165°	7.76	7.50	6.80	148.0°	5.3°	1.00	1.00
180°	7.37	7.37	6.63	180.0°	11.5°	1.00	1.00

TWS = 16kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
38.4°	7.56	5.93	22.14	24.8°	21.0°	0.50	0.57
52°	8.49	5.23	21.65	32.1°	24.1°	0.50	0.63
60°	8.91	4.45	21.02	36.4°	25.8°	0.50	0.67
70°	9.38	3.21	20.01	42.1°	26.9°	0.50	0.74
75°	9.61	2.49	19.45	45.0°	27.1°	0.50	0.78
80°	9.84	1.71	18.87	48.0°	27.1°	0.50	0.82
90°	10.31	0.00	17.58	54.1°	27.2°	0.50	0.92
110°	10.45	3.57	15.23	70.9°	16.7°	1.00	1.00
120°	10.99	5.50	13.19	76.9°	22.1°	0.84	0.94
135°	11.90	8.41	10.55	86.8°	21.5°	1.00	1.00
146.2°	10.92	9.07	9.20	104.9°	4.0°	1.00	1.00
150°	10.37	8.98	8.72	113.6°	2.1°	1.00	1.00
165°	8.40	8.11	8.17	149.8°	6.5°	1.00	1.00
180°	8.06	8.06	7.94	180.0°	11.8°	1.00	1.00

TWS = 20kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
39.0°	7.63	5.94	25.94	26.6°	22.3°	0.48	0.50
52°	8.60	5.29	25.33	34.4°	24.8°	0.50	0.51
60°	9.07	4.53	24.58	39.1°	26.4°	0.50	0.55
70°	9.61	3.29	23.43	45.4°	27.4°	0.50	0.60
75°	9.90	2.56	22.78	48.6°	27.9°	0.50	0.64
80°	10.20	1.77	22.08	51.7°	28.4°	0.48	0.73
90°	10.90	0.00	20.48	57.8°	29.9°	0.50	0.80
110°	11.85	4.05	17.64	73.5°	25.8°	1.00	0.98
120°	12.16	6.08	16.19	82.3°	22.1°	0.74	0.94
135°	13.72	9.70	13.11	91.9°	22.1°	0.92	0.95
145.3°	14.00	11.51	11.28	102.5°	14.5°	1.00	1.00
150°	12.91	11.18	10.90	113.9°	5.0°	1.00	1.00
165°	9.77	9.43	10.83	151.9°	9.7°	1.00	1.00
180°	9.33	9.33	10.67	180.0°	12.3°	1.00	1.00

TWS = 24kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
40.9°	7.63	5.77	29.45	28.9°	24.9°	0.45	0.50
52°	8.51	5.24	28.67	35.7°	27.9°	0.47	0.50
60°	9.04	4.52	27.77	40.7°	29.3°	0.49	0.50
70°	9.69	3.31	26.50	47.5°	29.9°	0.50	0.52
75°	10.02	2.59	25.81	51.0°	30.1°	0.44	0.70
80°	10.42	1.81	25.07	54.4°	30.4°	0.44	0.75
90°	11.31	0.00	23.51	61.2°	30.8°	0.45	0.83
110°	12.97	4.44	20.16	76.3°	29.7°	0.50	0.95
120°	13.29	6.64	19.29	86.2°	22.1°	0.66	0.94
135°	15.71	11.11	15.76	94.6°	22.2°	0.81	0.95
149.4°	17.16	14.76	12.22	106.6°	16.7°	1.00	1.00
150°	17.03	14.75	12.18	108.0°	15.1°	1.00	1.00
165°	11.47	11.08	13.19	152.6°	12.3°	1.00	1.00
180°	10.84	10.84	13.16	180.0°	13.0°	1.00	1.00



ETE

ETE



Headsail,
44.62 m²
(id=J0)

TWS = 6kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
42.1°	6.15	4.56	11.32	20.5°	10.0°	1.00	1.00
52°	6.88	4.23	11.54	23.7°	11.3°	1.00	1.00
60°	7.21	3.61	11.42	26.6°	10.7°	1.00	1.00
70°	7.41	2.53	10.98	30.5°	8.6°	1.00	1.00
75°	7.44	1.93	10.67	32.6°	7.4°	1.00	1.00
80°	7.44	1.29	10.32	34.7°	6.0°	1.00	1.00
90°	7.35	0.00	9.48	39.2°	3.1°	1.00	1.00
110°	6.61	2.26	7.25	51.0°	0.0°	1.00	1.00
120°	5.87	2.94	5.94	61.1°	0.0°	1.00	1.00
135°	4.51	3.19	4.25	86.3°	0.0°	1.00	1.00
150°	3.71	3.21	3.35	116.3°	0.5°	1.00	1.00
165°	3.39	3.28	2.86	147.1°	2.6°	1.00	1.00
167.2°	3.37	3.28	2.82	151.8°	3.0°	1.00	1.00
180°	3.27	3.27	2.73	180.0°	2.6°	1.00	1.00

TWS = 8kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
39.7°	6.85	5.27	13.88	20.5°	18.2°	1.00	0.93
52°	7.71	4.74	13.95	25.1°	20.1°	1.00	0.94
60°	7.99	3.99	13.65	28.6°	19.5°	1.00	0.97
70°	8.18	2.80	13.06	33.3°	17.7°	1.00	1.00
75°	8.22	2.13	12.70	35.9°	15.7°	1.00	1.00
80°	8.23	1.43	12.29	38.5°	13.6°	1.00	1.00
90°	8.18	0.00	11.37	44.0°	9.3°	1.00	1.00
110°	7.70	2.63	9.01	56.6°	0.2°	1.00	1.00
120°	7.12	3.56	7.60	65.8°	0.0°	1.00	1.00
135°	5.81	4.11	5.66	88.4°	0.0°	1.00	1.00
150°	4.90	4.25	4.48	116.9°	0.6°	1.00	1.00
165°	4.51	4.36	3.82	147.3°	3.0°	1.00	1.00
168.5°	4.45	4.36	3.74	154.8°	3.6°	1.00	1.00
180°	4.35	4.35	3.65	180.0°	3.5°	1.00	1.00

TWS = 10kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
39.1°	7.19	5.58	16.09	21.7°	19.6°	0.86	0.80
52°	8.03	4.94	15.95	27.2°	22.2°	0.87	0.84
60°	8.34	4.17	15.52	30.8°	23.6°	0.86	0.90
70°	8.65	2.96	14.82	35.5°	23.7°	1.00	0.94
75°	8.76	2.27	14.44	38.2°	22.5°	1.00	0.96
80°	8.82	1.53	14.00	41.0°	21.1°	1.00	0.98
90°	8.86	0.00	13.06	47.3°	16.2°	1.00	1.00
110°	8.34	2.85	10.59	62.3°	3.3°	1.00	1.00
120°	7.90	3.95	9.13	71.5°	0.0°	1.00	1.00
135°	6.90	4.88	7.07	91.4°	0.0°	1.00	1.00
150°	6.01	5.20	5.66	118.0°	1.0°	1.00	1.00
165°	5.57	5.38	4.84	147.7°	3.4°	1.00	1.00
170.3°	5.48	5.40	4.69	159.0°	4.4°	1.00	1.00
180°	5.38	5.38	4.62	180.0°	4.2°	1.00	1.00

TWS = 12kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
38.7°	7.37	5.76	18.16	22.8°	20.3°	0.54	0.73
52°	8.23	5.07	17.87	29.1°	23.3°	0.70	0.77
60°	8.58	4.29	17.38	33.0°	24.5°	0.69	0.82
70°	8.96	3.06	16.56	37.9°	25.5°	0.76	0.88
75°	9.11	2.36	16.07	40.5°	25.9°	0.77	0.92
80°	9.25	1.61	15.58	43.3°	25.3°	0.88	0.94
90°	9.45	0.00	14.58	49.6°	22.2°	1.00	0.98
110°	8.98	3.07	12.21	66.5°	7.1°	1.00	1.00
120°	8.49	4.25	10.69	76.5°	0.7°	1.00	1.00
135°	7.70	5.45	8.52	95.3°	0.0°	1.00	1.00
150°	6.99	6.05	6.90	119.6°	1.9°	1.00	1.00
165°	6.56	6.33	5.91	148.4°	4.5°	1.00	1.00
172.6°	6.42	6.37	5.69	164.2°	5.1°	1.00	1.00
180°	6.35	6.35	5.65	180.0°	4.9°	1.00	1.00

TWS = 14kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
38.4°	7.48	5.86	20.16	23.8°	20.6°	0.50	0.65
52°	8.38	5.16	19.77	30.7°	23.8°	0.50	0.71
60°	8.77	4.39	19.21	34.8°	25.2°	0.50	0.75
70°	9.20	3.15	18.31	40.2°	26.1°	0.50	0.82
75°	9.39	2.43	17.79	43.0°	26.1°	0.50	0.86
80°	9.57	1.66	17.21	45.8°	26.6°	0.50	0.90
90°	9.92	0.00	16.05	51.8°	25.7°	0.86	0.94
110°	9.67	3.31	13.78	69.2°	11.6°	1.00	1.00
120°	9.12	4.56	12.28	80.0°	3.9°	1.00	1.00
135°	8.30	5.87	10.03	99.2°	0.8°	1.00	1.00
150°	7.77	6.73	8.23	121.9°	3.2°	1.00	1.00
165°	7.42	7.16	7.09	149.5°	6.7°	1.00	1.00
175.5°	7.26	7.24	6.78	170.8°	12.2°	1.00	1.00
180°	7.23	7.23	6.77	180.0°	11.6°	1.00	1.00

TWS = 16kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
38.4°	7.56	5.93	22.14	24.8°	21.0°	0.50	0.57
52°	8.49	5.23	21.65	32.1°	24.1°	0.50	0.63
60°	8.91	4.45	21.02	36.4°	25.8°	0.50	0.67
70°	9.38	3.21	20.01	42.1°	26.9°	0.50	0.74
75°	9.61	2.49	19.45	45.0°	27.1°	0.50	0.78
80°	9.84	1.71	18.87	48.0°	27.1°	0.50	0.82
90°	10.31	0.00	17.58	54.1°	27.2°	0.50	0.92
110°	10.45	3.57	15.23	70.9°	16.7°	1.00	1.00
120°	9.82	4.91	13.85	82.5°	7.7°	1.00	1.00
135°	8.91	6.30	11.56	102.0°	1.3°	1.00	1.00
150°	8.38	7.26	9.68	124.5°	4.0°	1.00	1.00
165°	8.09	7.81	8.41	151.1°	11.0°	1.00	1.00
177.9°	7.95	7.94	8.06	175.9°	12.3°	1.00	1.00
180°	7.94	7.94	8.06	180.0°	11.9°	1.00	1.00

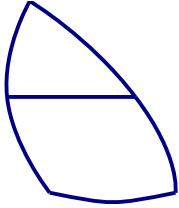
TWS = 20kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
39.0°	7.63	5.94	25.94	26.6°	22.3°	0.48	0.50
52°	8.60	5.29	25.33	34.4°	24.8°	0.50	0.51
60°	9.07	4.53	24.58	39.1°	26.4°	0.50	0.55
70°	9.61	3.29	23.43	45.4°	27.4°	0.50	0.60
75°	9.90	2.56	22.78	48.6°	27.9°	0.50	0.64
80°	10.20	1.77	22.08	51.7°	28.4°	0.48	0.73
90°	10.90	0.00	20.48	57.8°	29.9°	0.50	0.80
110°	11.85	4.05	17.64	73.5°	25.8°	1.00	0.98
120°	11.49	5.75	16.65	84.9°	16.7°	1.00	1.00
135°	10.33	7.31	14.55	105.2°	6.9°	1.00	1.00
150°	9.69	8.39	12.54	127.5°	5.6°	1.00	1.00
165°	9.34	9.02	11.17	153.3°	14.2°	1.00	1.00
177.5°	9.18	9.17	10.83	175.5°	13.4°	1.00	1.00
180°	9.17	9.17	10.83	180.0°	12.6°	1.00	1.00

TWS = 24kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
40.9°	7.63	5.77	29.45	28.9°	24.9°	0.45	0.50
52°	8.51	5.24	28.67	35.7°	27.9°	0.47	0.50
60°	9.04	4.52	27.77	40.7°	29.3°	0.49	0.50
70°	9.69	3.31	26.50	47.5°	29.9°	0.50	0.52
75°	10.02	2.59	25.81	51.0°	30.1°	0.44	0.70
80°	10.42	1.81	25.07	54.4°	30.4°	0.44	0.75
90°	11.31	0.00	23.51	61.2°	30.8°	0.45	0.83
110°	12.97	4.44	20.16	76.3°	29.7°	0.50	0.95
120°	13.14	6.57	18.82	86.5°	25.4°	0.90	1.00
135°	12.10	8.56	17.12	106.5°	14.8°	1.00	1.00
150°	11.32	9.80	15.22	128.5°	6.7°	1.00	1.00
165°	10.85	10.48	13.72	154.1°	15.2°	1.00	1.00
175.7°	10.65	10.62	13.40	172.6°	15.5°	1.00	1.00
180°	10.60	10.60	13.40	180.0°	13.5°	1.00	1.00



ETE

ETE



Asymmetric on Centerline,
167.08 m²
(id=A0)

TWS = 6kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
48.0°	0.01	0.01	5.78	45.9°	21.5°	1.00	1.00
52°	0.01	0.01	0.00	0.0°	21.5°	1.00	1.00
60°	4.52	2.26	9.13	34.6°	4.1°	1.00	0.96
70°	5.55	1.90	9.44	36.3°	7.4°	1.00	0.96
75°	5.96	1.54	9.45	37.3°	8.7°	1.00	0.95
80°	6.30	1.09	9.37	38.4°	9.9°	1.00	0.95
90°	6.81	0.00	9.00	40.9°	10.9°	1.00	0.95
110°	7.09	2.43	7.53	48.0°	6.8°	1.00	0.97
120°	6.93	3.46	6.51	52.9°	3.1°	1.00	1.00
135°	6.21	4.39	4.68	65.2°	0.0°	1.00	1.00
142.0°	5.71	4.50	3.83	75.0°	0.0°	1.00	1.00
150°	5.06	4.38	3.00	92.5°	0.0°	1.00	1.00
165°	3.62	3.49	2.68	144.5°	1.7°	1.00	1.00
180°	3.33	3.33	2.67	180.0°	2.9°	1.00	1.00

TWS = 8kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
48.0°	0.01	0.01	7.70	45.9°	21.5°	1.00	1.00
52°	0.01	0.01	3.83	75.0°	21.5°	1.00	1.00
60°	5.62	2.81	11.72	34.9°	14.7°	1.00	0.94
70°	6.65	2.28	11.78	37.1°	18.9°	0.99	0.93
75°	7.03	1.82	11.65	38.6°	19.8°	0.98	0.93
80°	7.35	1.28	11.42	40.1°	20.9°	0.97	0.93
90°	7.80	0.00	10.78	43.6°	21.6°	0.98	0.93
110°	8.19	2.80	9.05	52.9°	16.3°	1.00	0.97
120°	8.15	4.08	7.96	58.5°	11.4°	1.00	1.00
135°	7.72	5.46	6.02	70.0°	1.0°	1.00	1.00
145.1°	6.93	5.69	4.59	85.4°	0.0°	1.00	1.00
150°	6.51	5.63	4.02	96.0°	0.1°	1.00	1.00
165°	4.79	4.63	3.59	144.8°	2.0°	1.00	1.00
180°	4.43	4.43	3.57	180.0°	3.5°	1.00	1.00

TWS = 10kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
48.0°	0.01	0.01	9.63	45.9°	21.5°	1.00	1.00
52°	0.01	0.01	4.59	85.4°	21.5°	1.00	1.00
60°	6.17	3.09	13.89	36.4°	17.7°	0.89	0.93
70°	7.19	2.46	13.79	39.7°	20.2°	0.86	0.93
75°	7.54	1.95	13.55	41.6°	21.4°	0.85	0.93
80°	7.81	1.36	13.23	43.8°	21.6°	0.85	0.93
90°	8.24	0.00	12.42	48.4°	21.8°	0.87	0.93
110°	8.89	3.04	10.29	57.9°	21.9°	0.97	0.93
120°	9.05	4.52	9.14	63.7°	18.8°	1.00	0.98
135°	8.64	6.11	7.22	77.4°	5.0°	1.00	1.00
148.5°	7.78	6.63	5.28	98.1°	0.6°	1.00	1.00
150°	7.66	6.63	5.10	101.4°	0.8°	1.00	1.00
165°	5.89	5.69	4.57	145.5°	2.4°	1.00	1.00
180°	5.47	5.47	4.53	180.0°	4.5°	1.00	1.00

TWS = 12kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
48.0°	0.01	0.01	11.55	45.9°	21.5°	1.00	1.00
52°	0.01	0.01	5.28	98.1°	21.5°	1.00	1.00
60°	6.51	3.26	15.92	38.2°	18.8°	0.79	0.93
70°	7.52	2.57	15.68	42.2°	21.1°	0.76	0.92
75°	7.85	2.03	15.36	44.5°	21.6°	0.76	0.92
80°	8.11	1.41	14.98	47.1°	21.7°	0.76	0.92
90°	8.59	0.00	14.07	52.4°	21.8°	0.79	0.93
110°	9.40	3.22	11.72	63.1°	22.0°	0.88	0.94
120°	9.77	4.89	10.35	68.6°	22.0°	0.97	0.94
135°	9.61	6.79	8.44	82.4°	9.8°	1.00	1.00
150°	8.56	7.42	6.27	107.0°	1.8°	1.00	1.00
151.0°	8.49	7.42	6.16	108.9°	1.7°	1.00	1.00
165°	6.92	6.68	5.61	146.4°	3.2°	1.00	1.00
180°	6.47	6.47	5.53	180.0°	4.9°	1.00	1.00

TWS = 14kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
48.0°	0.01	0.01	13.48	45.9°	21.5°	1.00	1.00
52°	0.01	0.01	6.16	108.9°	21.5°	1.00	1.00
60°	6.71	3.36	17.86	39.8°	19.3°	0.71	0.93
70°	7.72	2.64	17.50	44.4°	21.5°	0.69	0.92
75°	8.04	2.08	17.15	47.1°	21.7°	0.69	0.93
80°	8.33	1.45	16.72	50.0°	21.8°	0.70	0.93
90°	8.90	0.00	15.74	55.6°	21.9°	0.72	0.93
110°	9.88	3.38	13.22	67.3°	22.0°	0.81	0.94
120°	10.38	5.19	11.74	73.2°	22.0°	0.90	0.94
135°	10.72	7.58	9.58	85.1°	15.4°	1.00	1.00
148.5°	9.56	8.15	7.69	107.9°	2.0°	1.00	1.00
150°	9.40	8.14	7.51	111.3°	2.1°	1.00	1.00
165°	7.76	7.50	6.80	148.0°	5.3°	1.00	1.00
180°	7.37	7.37	6.63	180.0°	11.5°	1.00	1.00

TWS = 16kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
48.0°	0.01	0.01	15.40	45.9°	21.5°	1.00	1.00
52°	0.01	0.01	7.69	107.9°	21.5°	1.00	1.00
60°	6.82	3.41	19.74	41.3°	19.8°	0.65	0.92
70°	7.85	2.68	19.30	46.3°	21.8°	0.65	0.90
75°	8.19	2.12	18.91	49.3°	21.9°	0.65	0.91
80°	8.51	1.48	18.48	52.3°	21.8°	0.65	0.93
90°	9.16	0.00	17.44	58.3°	21.9°	0.67	0.93
110°	10.35	3.54	14.77	70.7°	22.0°	0.76	0.94
120°	10.99	5.50	13.19	76.9°	22.1°	0.84	0.94
135°	11.90	8.41	10.55	86.8°	21.5°	1.00	1.00
146.2°	10.92	9.07	9.20	104.9°	4.0°	1.00	1.00
150°	10.37	8.98	8.72	113.6°	2.1°	1.00	1.00
165°	8.40	8.11	8.17	149.8°	6.5°	1.00	1.00
180°	8.06	8.06	7.94	180.0°	11.8°	1.00	1.00

TWS = 20kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
48.0°	0.01	0.01	19.25	45.9°	21.5°	1.00	1.00
52°	0.01	0.01	9.20	104.9°	21.5°	1.00	1.00
60°	0.01	0.01	9.20	104.9°	21.5°	1.00	1.00
70°	7.73	2.64	22.64	49.9°	22.8°	0.65	0.63
75°	8.14	2.11	22.24	53.2°	22.7°	0.65	0.64
80°	8.54	1.48	21.77	56.5°	22.8°	0.65	0.65
90°	9.39	0.00	20.70	63.0°	22.7°	0.65	0.70
110°	11.23	3.84	17.96	75.9°	22.1°	0.67	0.94
120°	12.16	6.08	16.19	82.3°	22.1°	0.74	0.94
135°	13.72	9.70	13.11	91.9°	22.1°	0.92	0.95
145.3°	14.00	11.51	11.28	102.5°	14.5°	1.00	1.00
150°	12.91	11.18	10.90	113.9°	5.0°	1.00	1.00
165°	9.77	9.43	10.83	151.9°	9.7°	1.00	1.00
180°	9.33	9.33	10.67	180.0°	12.3°	1.00	1.00

TWS = 24kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
48.0°	0.01	0.01	23.10	45.9°	21.5°	1.00	1.00
52°	0.01	0.01	11.28	102.5°	21.5°	1.00	1.00
60°	0.01	0.01	11.28	102.5°	21.5°	1.00	1.00
70°	0.01	0.00	25.11	51.4°	21.5°	0.65	0.53
75°	0.01	0.00	24.72	54.7°	21.5°	0.65	0.53
80°	0.01	0.00	24.24	58.1°	21.5°	0.65	0.53
90°	0.01	0.00	23.00	65.3°	21.5°	0.65	0.53
110°	11.77	4.03	21.09	80.3°	22.8°	0.65	0.77
120°	13.29	6.64	19.29	86.2°	22.1°	0.66	0.94
135°	15.71	11.11	15.76	94.6°	22.2°	0.81	0.95
149.4°	17.16	14.76	12.22	106.6°	16.7°	1.00	1.00
150°	17.03	14.75	12.18	108.0°	15.1°	1.00	1.00
165°	11.47	11.08	13.19	152.6°	12.3°	1.00	1.00
180°	10.84	10.84	13.16	180.0°	13.0°	1.00	1.00