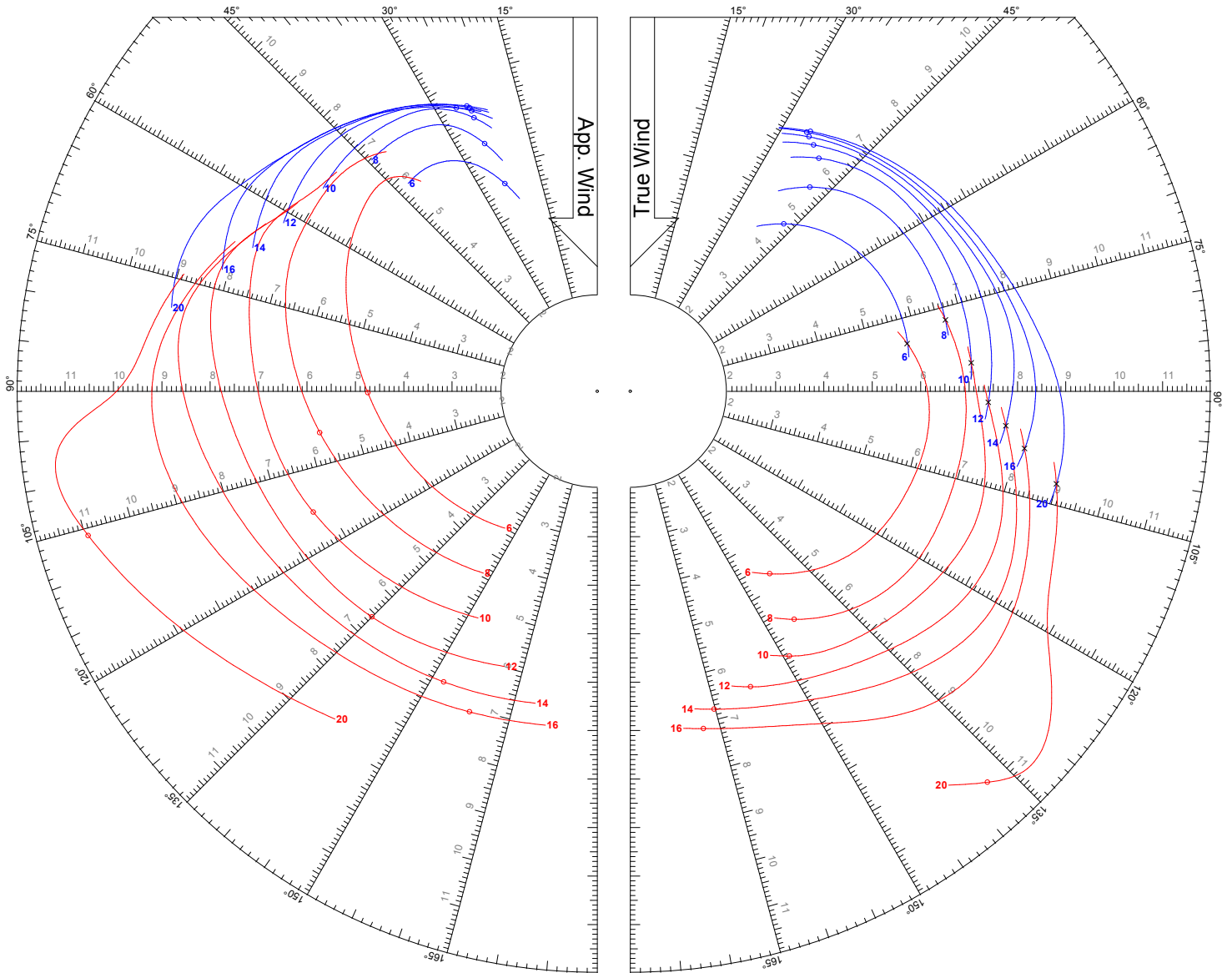




World Leader in Rating Technology

# Speed Guide



## Polar Plot for Boat

Name **J/88**  
Sail Number  
Class  
Designer **Rodney Johnstone**  
Builder **CCFC**  
Issued On **5/2/2013 - VPP 2013 1.01**

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

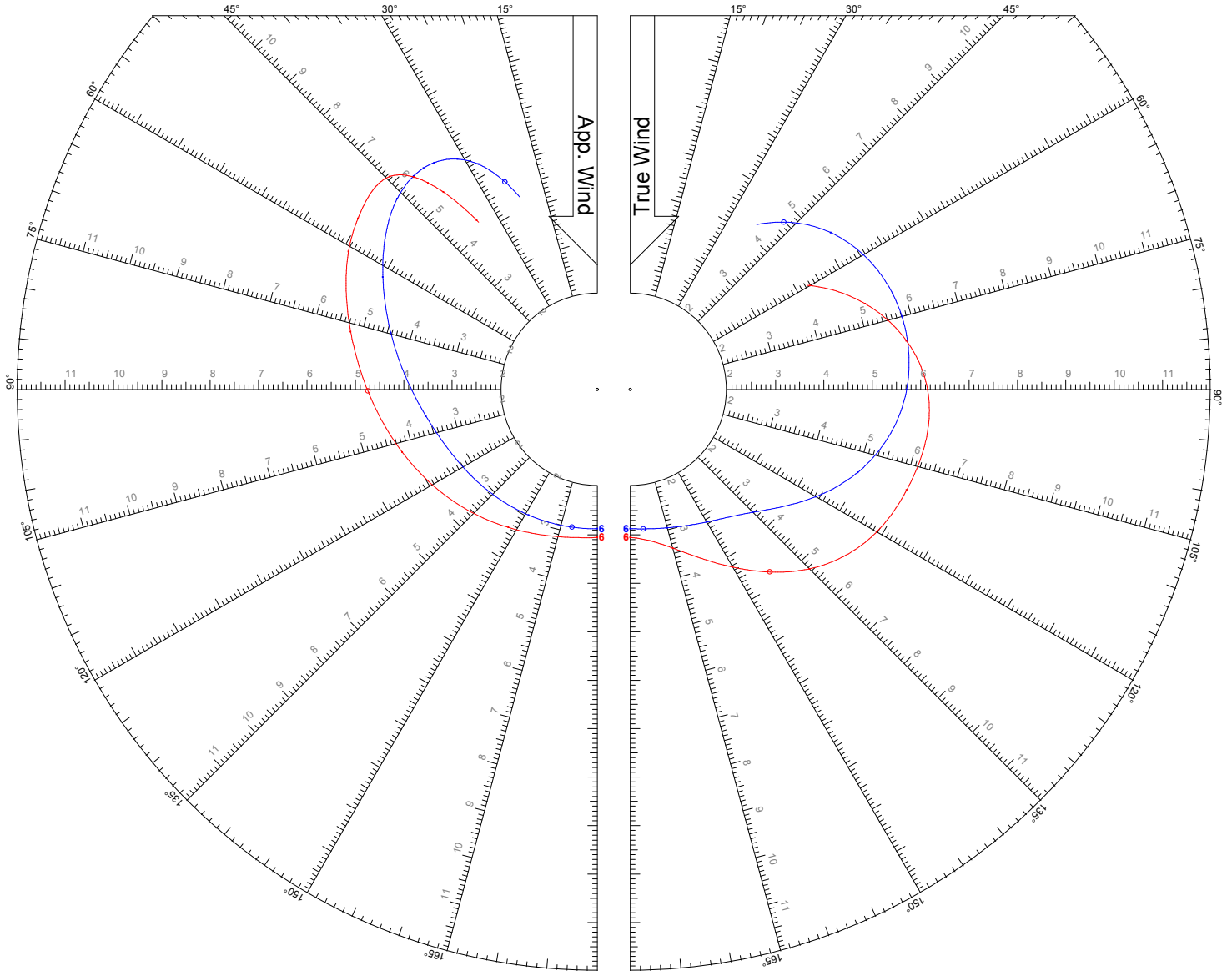
**Jib**

**Asymmetric Spinnaker on Centerline**



World Leader in Rating Technology

# Speed Guide



## Polar Plot for Boat

Name **J/88**  
Sail Number  
Class  
Designer **Rodney Johnstone**  
Builder **CCFC**  
Issued On **5/2/2013 - VPP 2013 1.01**

**TWS: 6 kts**

**Jib**

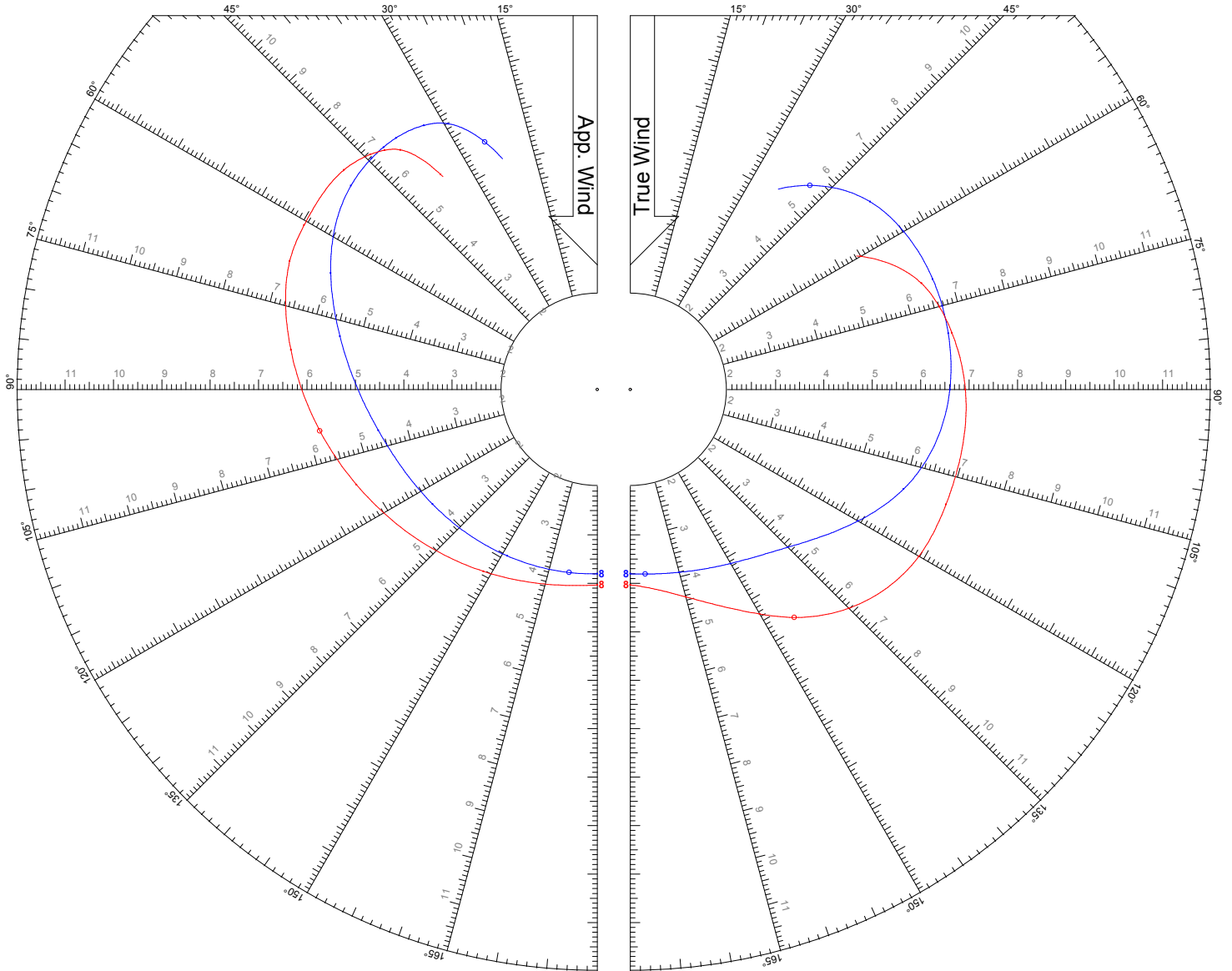
**Asymmetric Spinnaker on Centerline**



ORC

World Leader in Rating Technology

# Speed Guide



### Polar Plot for Boat

Name **J/88**  
Sail Number  
Class  
Designer **Rodney Johnstone**  
Builder **CCFC**  
Issued On **5/2/2013 - VPP 2013 1.01**

**TWS: 8 kts**

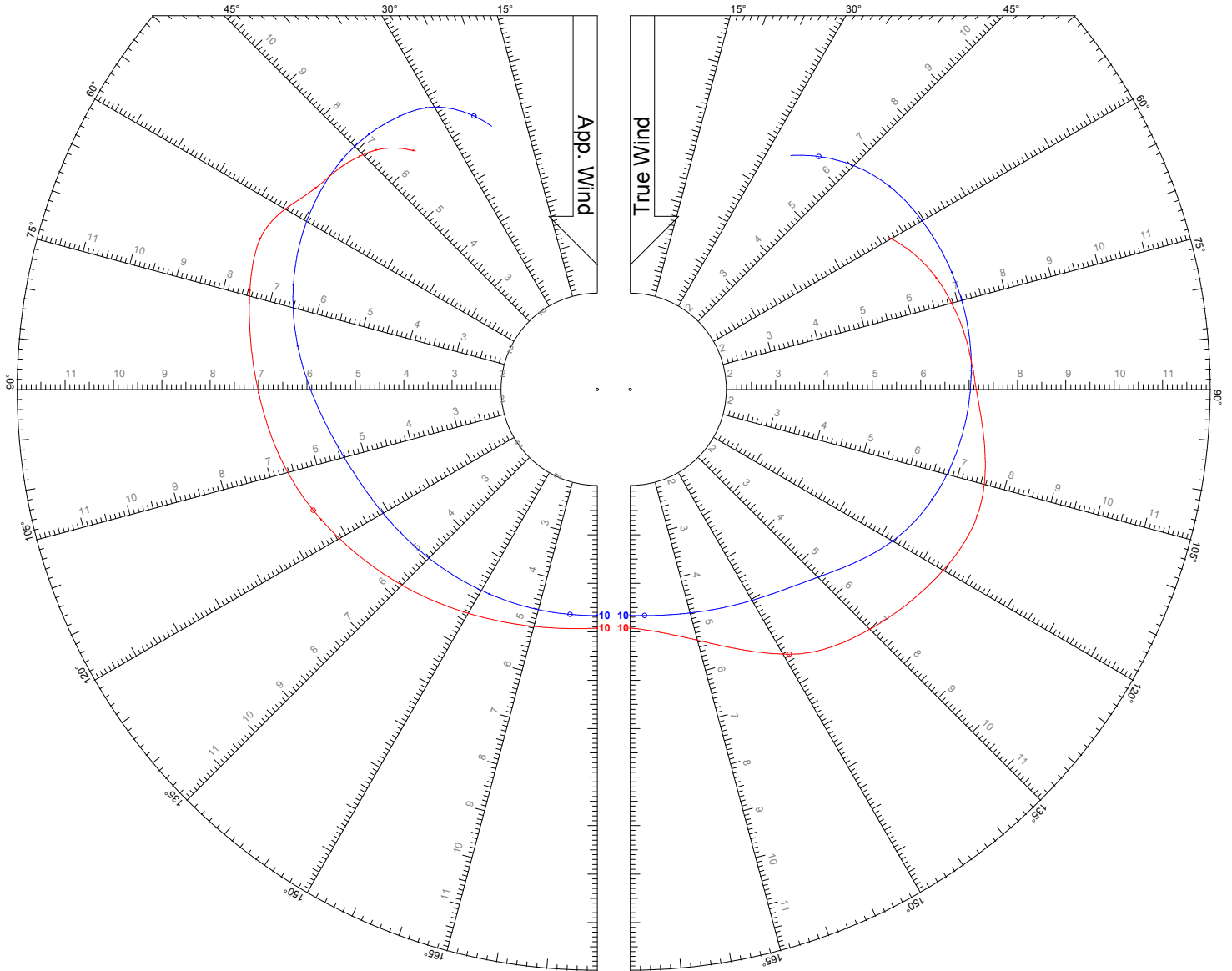
**Jib**

**Asymmetric Spinnaker on Centerline**



World Leader in Rating Technology

# Speed Guide



## Polar Plot for Boat

Name **J/88**  
Sail Number  
Class  
Designer **Rodney Johnstone**  
Builder **CCFC**  
Issued On **5/2/2013 - VPP 2013 1.01**

**TWS: 10 kts**

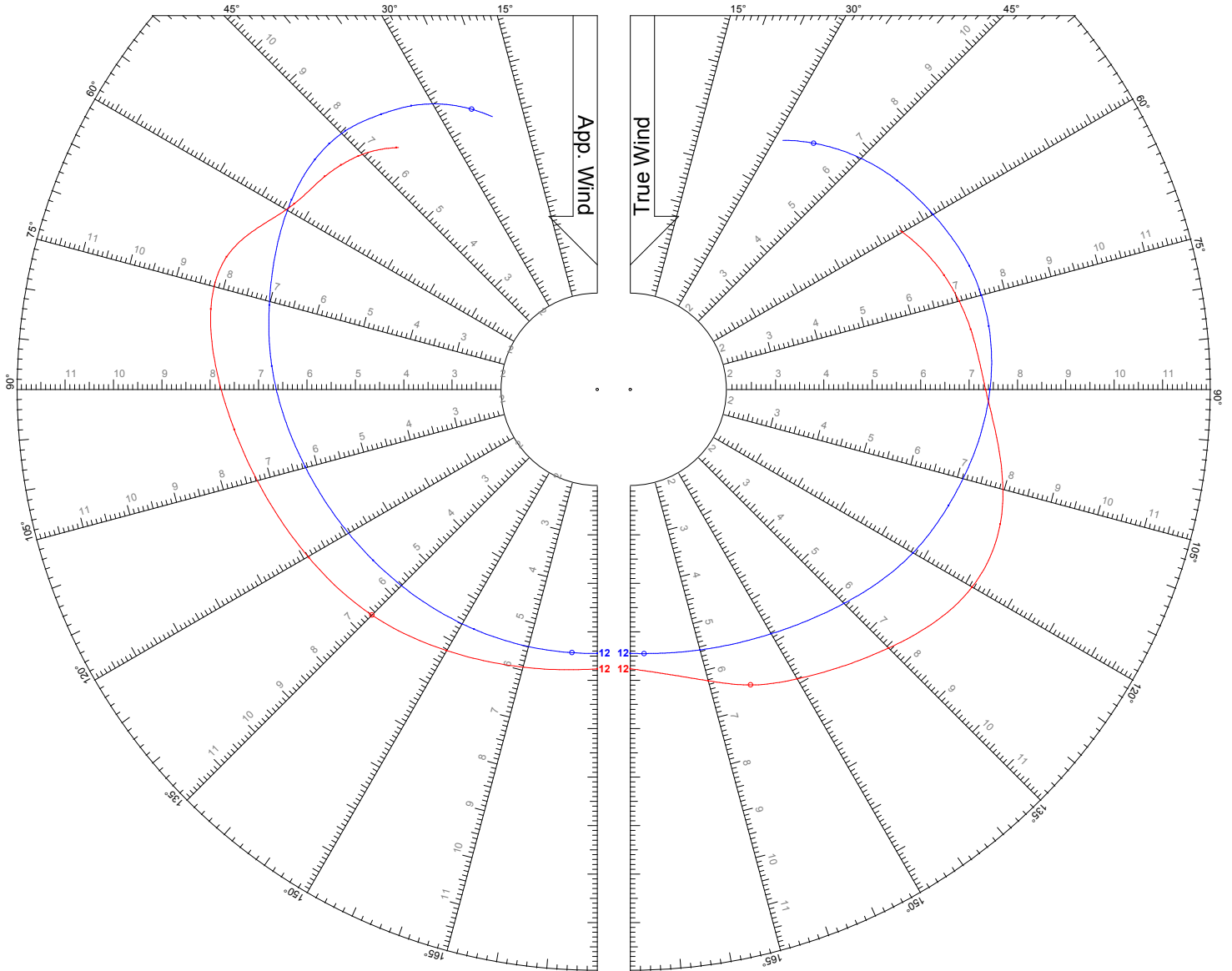
**Jib**

**Asymmetric Spinnaker on Centerline**



World Leader in Rating Technology

# Speed Guide



Polar Plot for Boat	
Name	J/88
Sail Number	
Class	
Designer	Rodney Johnstone
Builder	CCFC
Issued On	5/2/2013 - VPP 2013 1.01

TWS: 12 kts

Jib

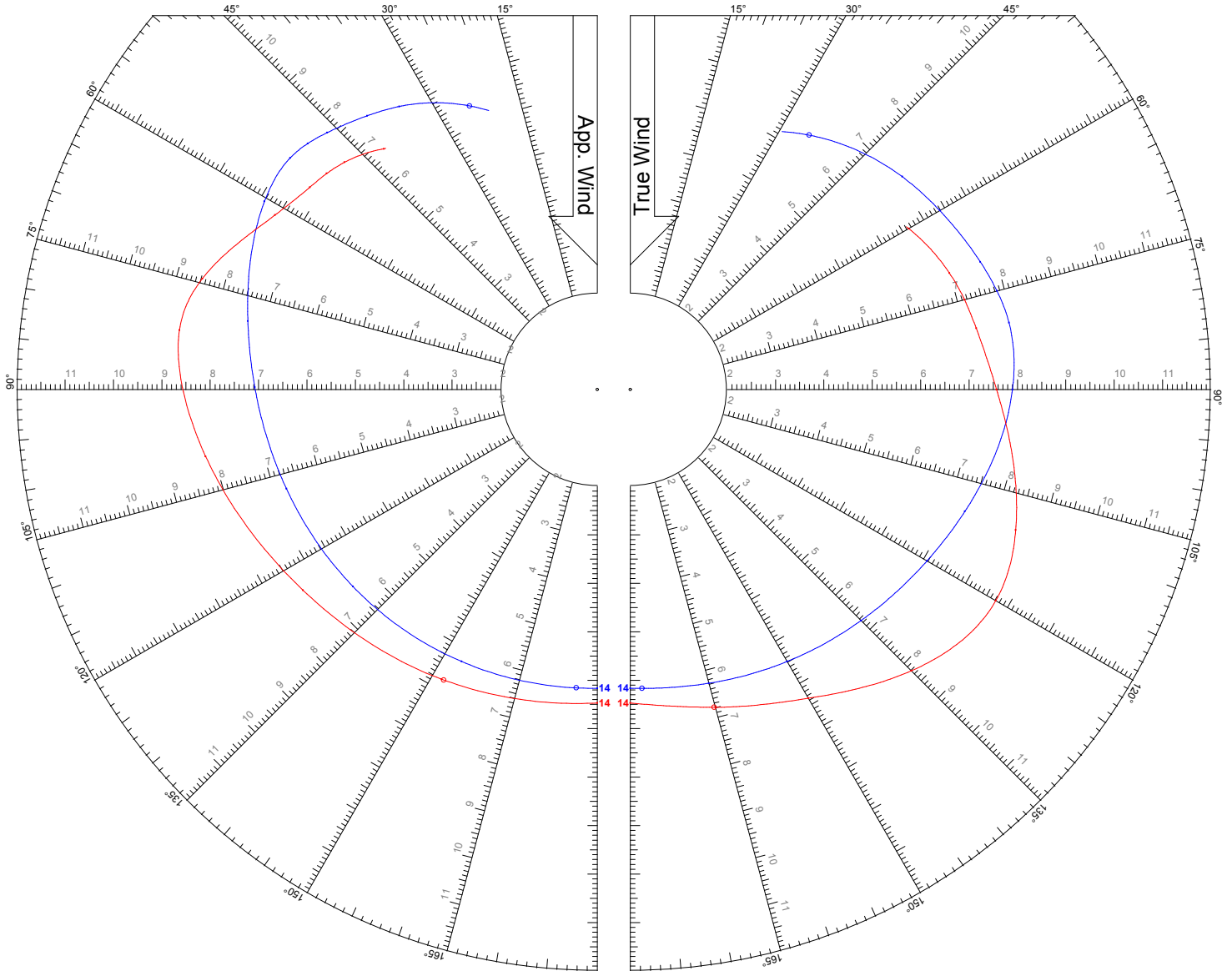
Asymmetric Spinnaker on Centerline



ORC

World Leader in Rating Technology

# Speed Guide



## Polar Plot for Boat

Name **J/88**  
Sail Number  
Class  
Designer **Rodney Johnstone**  
Builder **CCFC**  
Issued On **5/2/2013 - VPP 2013 1.01**

**TWS: 14 kts**

**Jib**

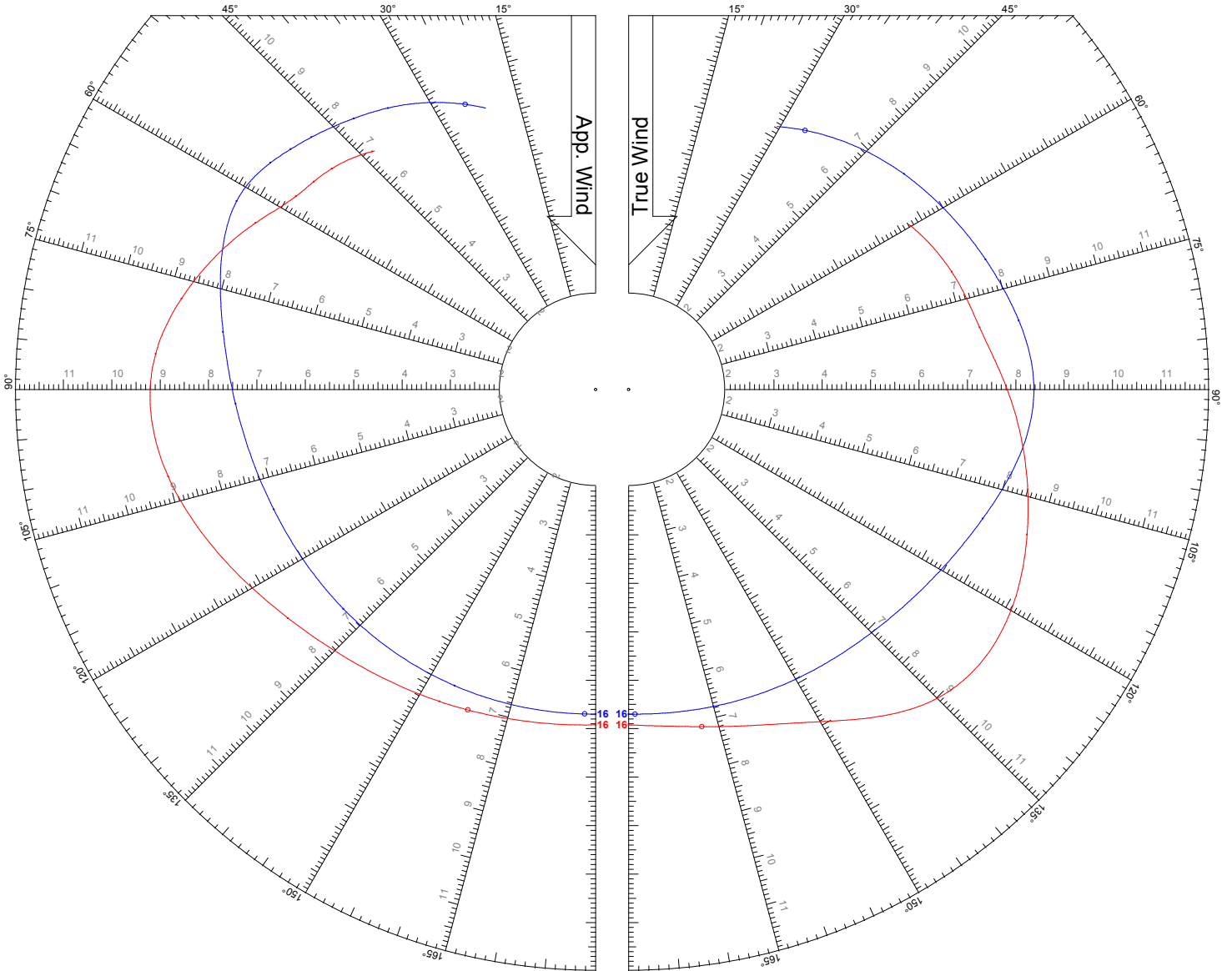
**Asymmetric Spinnaker on Centerline**



ORC

World Leader in Rating Technology

# Speed Guide



### Polar Plot for Boat

Name **J/88**  
Sail Number  
Class  
Designer **Rodney Johnstone**  
Builder **CCFC**  
Issued On **5/2/2013 - VPP 2013 1.01**

**TWS: 16 kts**

**Jib**

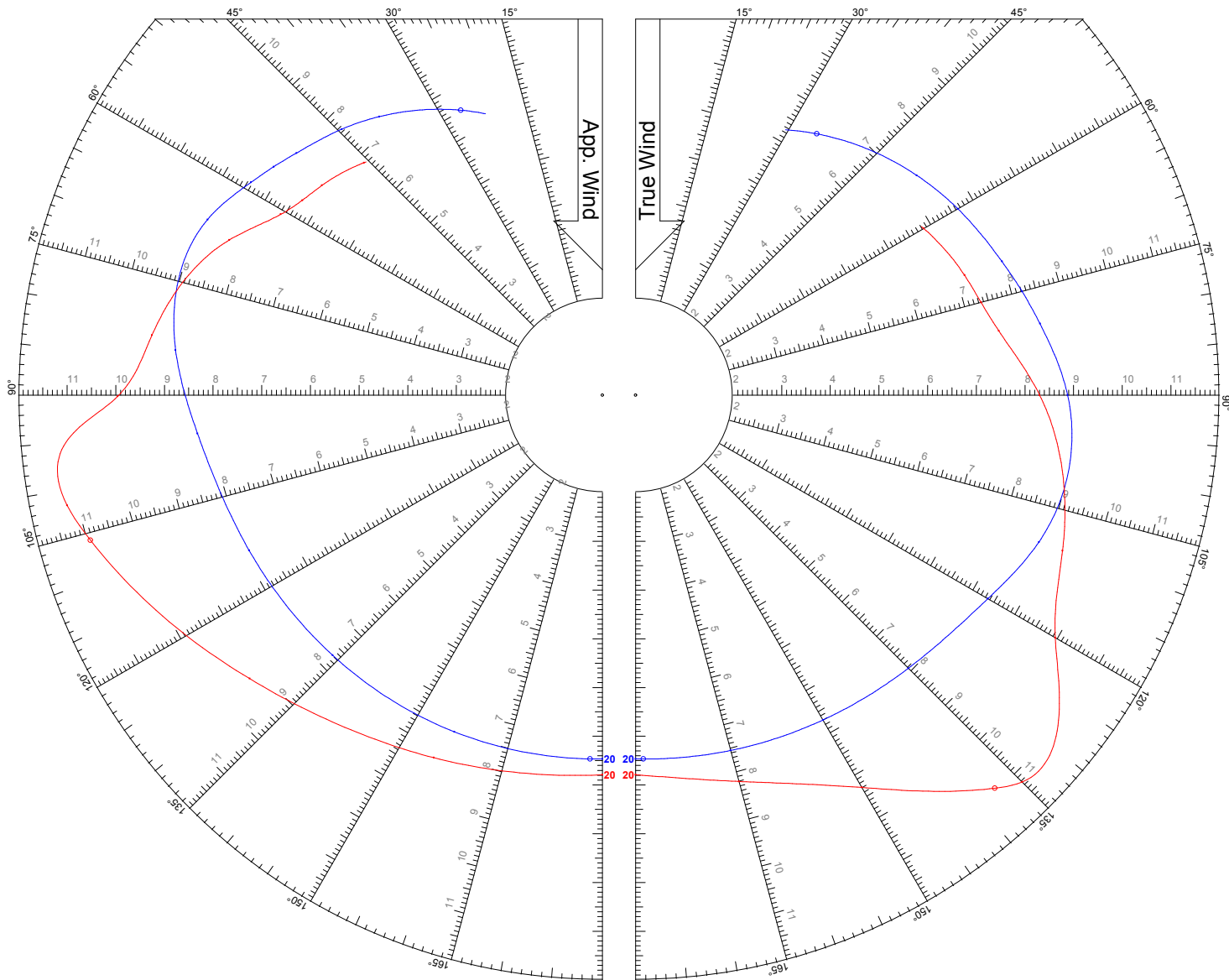
**Asymmetric Spinnaker on Centerline**



ORC

World Leader in Rating Technology

# Speed Guide



Polar Plot for Boat	
Name	J/88
Sail Number	
Class	
Designer	Rodney Johnstone
Builder	CCFC
Issued On	5/2/2013 - VPP 2013 1.01

TWS: 20 kts

Jib

Asymmetric Spinnaker on Centerline





World Leader in Rating Technology  
 © Offshore Racing Congress 2013  
 www.orc.org

Polar Tables	
Boat Name:	<b>J/88</b>
Sail No:	
Sail:	<b>Best Performance</b>
Issued On:	<b>5/2/2013 - VPP 2013 1.01</b>

TWS = 6 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
42.6° (b)	4.69	3.45	9.97	24.0°	3.8°	1.00	1.00
52°	5.26	3.24	10.12	27.8°	3.9°	1.00	1.00
60°	5.56	2.78	10.01	31.3°	3.8°	1.00	1.00
70°	5.77	1.97	9.64	35.8°	3.5°	1.00	1.00
75°	5.81	1.50	9.37	38.2°	3.3°	1.00	1.00
80°	5.81	1.01	9.05	40.8°	3.1°	1.00	1.00
90°	6.14	0.00	8.59	44.3°	16.0°	1.00	1.00
110°	6.08	2.08	6.93	54.5°	14.8°	1.00	1.00
120°	5.88	2.94	5.94	61.0°	13.3°	1.00	1.00
135°	5.23	3.70	4.36	76.8°	12.0°	1.00	1.00
150°	4.23	3.67	3.15	107.8°	11.4°	1.00	1.00
165°	3.39	3.27	2.86	147.2°	11.2°	1.00	1.00
180°	3.06	3.06	2.95	180.0°	11.2°	1.00	1.00
142.6° (r)	4.74	3.77	3.65	90.4°	11.7°	1.00	1.00

TWS = 8 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
41.4° (b)	5.61	4.21	12.76	24.5°	8.9°	1.00	1.00
52°	6.29	3.87	12.87	29.3°	9.1°	1.00	1.00
60°	6.52	3.26	12.60	33.4°	7.7°	1.00	1.00
70°	6.65	2.27	12.03	38.7°	5.4°	1.00	1.00
75°	6.67	1.73	11.67	41.5°	4.8°	1.00	1.00
80°	6.75	1.17	11.33	44.1°	26.4°	1.00	0.97
90°	6.92	0.00	10.58	49.1°	23.6°	1.00	1.00
110°	6.94	2.37	8.61	60.8°	16.5°	1.00	1.00
120°	6.89	3.44	7.51	67.4°	15.2°	1.00	1.00
135°	6.38	4.51	5.70	82.7°	12.6°	1.00	1.00
150°	5.35	4.63	4.30	111.5°	11.6°	1.00	1.00
165°	4.43	4.28	3.89	147.9°	11.3°	1.00	1.00
180°	4.03	4.03	3.97	180.0°	11.2°	1.00	1.00
144.3° (r)	5.80	4.70	4.72	98.5°	11.9°	1.00	1.00

TWS = 10 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
39.1° (b)	6.19	4.81	15.31	24.3°	21.4°	1.00	1.00
52°	6.80	4.19	15.17	31.3°	19.9°	1.00	1.00
60°	6.96	3.48	14.77	35.9°	16.8°	1.00	1.00
70°	7.07	2.42	14.08	41.9°	12.2°	1.00	1.00
75°	7.09	1.84	13.67	44.9°	9.8°	1.00	1.00
80°	7.09	1.23	13.23	48.1°	7.4°	1.00	1.00
90°	7.15	0.00	12.29	54.4°	26.7°	0.94	0.92
110°	7.63	2.61	10.30	65.9°	22.2°	1.00	1.00
120°	7.46	3.73	9.00	74.1°	16.1°	1.00	1.00
135°	7.00	4.95	7.07	90.6°	13.1°	1.00	1.00
150°	6.31	5.46	5.53	115.2°	11.8°	1.00	1.00
165°	5.36	5.18	5.02	149.0°	11.4°	1.00	1.00
180°	4.92	4.92	5.08	180.0°	11.3°	1.00	1.00
148.9° (r)	6.38	5.46	5.60	113.0°	11.9°	1.00	1.00

TWS = 12 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
36.7° (b)	6.34	5.08	17.50	24.2°	23.6°	1.00	0.83
52°	7.00	4.31	17.22	33.3°	26.0°	1.00	0.91
60°	7.22	3.61	16.82	38.2°	27.1°	1.00	0.98
70°	7.45	2.55	16.15	44.3°	21.9°	1.00	1.00
75°	7.51	1.94	15.72	47.5°	18.2°	1.00	1.00
80°	7.52	1.31	15.23	50.9°	14.4°	1.00	1.00
90°	7.43	0.00	14.12	58.2°	7.2°	1.00	1.00
110°	8.13	2.78	11.97	70.3°	26.7°	0.96	0.97
120°	8.16	4.08	10.61	78.3°	17.9°	1.00	1.00
135°	7.55	5.34	8.54	96.3°	14.5°	1.00	1.00
150°	6.90	5.97	6.94	120.2°	12.1°	1.00	1.00
165°	6.22	6.01	6.20	149.9°	11.5°	1.00	1.00
180°	5.77	5.77	6.23	180.0°	11.4°	1.00	1.00
157.8° (r)	6.59	6.10	6.40	135.0°	11.7°	1.00	1.00

TWS = 14 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
35.2° (b)	6.42	5.25	19.60	24.3°	24.5°	1.00	0.70
52°	7.13	4.39	19.23	35.0°	27.2°	1.00	0.77
60°	7.38	3.69	18.81	40.1°	28.3°	1.00	0.84
70°	7.70	2.63	18.14	46.5°	29.1°	1.00	0.94
75°	7.85	2.03	17.73	49.7°	29.2°	1.00	1.00
80°	7.95	1.38	17.26	53.0°	23.7°	1.00	1.00
90°	7.90	0.00	16.07	60.6°	13.3°	1.00	1.00
110°	8.48	2.90	13.66	74.3°	26.7°	0.89	1.00
120°	8.72	4.36	12.25	81.9°	26.7°	0.98	1.00
135°	8.21	5.81	10.04	99.7°	15.4°	1.00	1.00
150°	7.36	6.37	8.47	124.2°	12.4°	1.00	1.00
165°	6.79	6.56	7.65	151.7°	11.6°	1.00	1.00
180°	6.47	6.47	7.53	180.0°	11.5°	1.00	1.00
165.2° (r)	6.78	6.56	7.64	152.1°	11.6°	1.00	1.00

TWS = 16 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
34.3° (b)	6.47	5.35	21.65	24.6°	25.9°	1.00	0.60
52°	7.22	4.45	21.22	36.4°	28.1°	1.00	0.67
60°	7.50	3.75	20.79	41.8°	29.2°	1.00	0.72
70°	7.85	2.68	20.09	48.5°	30.0°	1.00	0.81
75°	8.02	2.08	19.67	51.8°	30.2°	1.00	0.87
80°	8.19	1.42	19.20	55.2°	30.3°	1.00	0.95
90°	8.38	0.00	18.06	62.4°	21.2°	1.00	1.00
110°	8.76	3.00	15.39	77.7°	26.7°	0.82	1.00
120°	9.12	4.56	13.90	85.4°	26.7°	0.91	1.00
135°	9.01	6.37	11.55	101.5°	16.2°	1.00	1.00
150°	7.92	6.86	9.96	126.6°	12.8°	1.00	1.00
165°	7.20	6.96	9.23	153.4°	11.8°	1.00	1.00
180°	6.92	6.92	9.08	180.0°	11.6°	1.00	1.00
167.7° (r)	7.12	6.96	9.17	158.2°	11.7°	1.00	1.00

TWS = 20 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
34.8° (b)	6.53	5.36	25.63	26.5°	25.7°	0.51	0.60
52°	7.33	4.51	25.18	38.7°	28.1°	0.69	0.60
60°	7.64	3.82	24.72	44.5°	28.9°	0.82	0.60
70°	8.01	2.74	23.95	51.7°	30.9°	1.00	0.62
75°	8.22	2.13	23.51	55.3°	31.1°	1.00	0.67
80°	8.44	1.46	23.02	58.8°	31.3°	1.00	0.73
90°	8.88	0.00	21.88	66.1°	31.4°	1.00	0.89
110°	9.34	3.19	18.96	82.4°	26.7°	0.72	1.00
120°	9.96	4.98	17.32	90.1°	26.7°	0.81	1.00
135°	11.23	7.94	14.44	101.6°	26.8°	1.00	1.00
150°	9.30	8.05	12.82	128.7°	14.6°	1.00	1.00
165°	8.21	7.93	12.26	155.0°	12.2°	1.00	1.00
180°	7.79	7.79	12.21	180.0°	11.9°	1.00	1.00
137.5° (r)	10.93	8.07	14.03	105.8°	18.9°	1.00	1.00



World Leader in Rating Technology  
 © Offshore Racing Congress 2013  
 www.orc.org

Polar Tables	
Boat Name:	J/88
Sail No:	
Sail:	Jib
Issued On:	5/2/2013 - VPP 2013 1.01

TWS = 6 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
42.6° (b)	4.69	3.45	9.64	23.3°	3.8°	1.00	1.00
52°	5.26	3.24	9.80	27.0°	3.9°	1.00	1.00
60°	5.56	2.78	9.71	30.2°	3.8°	1.00	1.00
70°	5.77	1.97	9.35	34.5°	3.5°	1.00	1.00
75°	5.81	1.50	9.09	36.8°	3.3°	1.00	1.00
80°	5.81	1.01	8.78	39.3°	3.1°	1.00	1.00
90°	5.71	0.00	8.03	44.7°	2.7°	1.00	1.00
110°	5.00	1.71	6.13	60.0°	1.6°	1.00	1.00
120°	4.42	2.21	5.15	71.9°	1.1°	1.00	1.00
135°	3.58	2.53	4.02	95.9°	0.7°	1.00	1.00
150°	3.16	2.73	3.32	121.6°	0.5°	1.00	1.00
165°	2.96	2.85	2.90	149.7°	0.3°	1.00	1.00
180°	2.87	2.87	2.78	180.0°	0.1°	1.00	1.00
174.6° (r)	2.89	2.88	2.79	169.0°	0.2°	1.00	1.00

TWS = 8 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
41.4° (b)	5.61	4.21	12.28	23.6°	8.9°	1.00	1.00
52°	6.29	3.87	12.39	28.2°	9.1°	1.00	1.00
60°	6.52	3.26	12.15	32.1°	7.7°	1.00	1.00
70°	6.65	2.27	11.61	37.4°	5.4°	1.00	1.00
75°	6.67	1.73	11.27	40.1°	4.8°	1.00	1.00
80°	6.67	1.16	10.88	42.8°	4.4°	1.00	1.00
90°	6.60	0.00	10.01	48.7°	3.6°	1.00	1.00
110°	6.01	2.06	7.87	64.1°	2.2°	1.00	1.00
120°	5.43	2.72	6.73	75.7°	1.6°	1.00	1.00
135°	4.61	3.26	5.38	97.8°	1.0°	1.00	1.00
150°	4.15	3.59	4.46	122.3°	0.8°	1.00	1.00
165°	3.91	3.77	3.90	150.0°	0.5°	1.00	1.00
180°	3.80	3.80	3.73	180.0°	0.1°	1.00	1.00
175.4° (r)	3.82	3.81	3.74	170.7°	0.3°	1.00	1.00

TWS = 10 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
39.1° (b)	6.19	4.81	14.50	22.2°	21.4°	1.00	1.00
52°	6.80	4.19	14.33	28.9°	19.9°	1.00	1.00
60°	6.96	3.48	13.99	33.7°	16.8°	1.00	1.00
70°	7.07	2.42	13.42	40.0°	12.2°	1.00	1.00
75°	7.09	1.84	13.07	43.2°	9.8°	1.00	1.00
80°	7.09	1.23	12.67	46.5°	7.4°	1.00	1.00
90°	7.03	0.00	11.73	53.2°	4.6°	1.00	1.00
110°	6.64	2.27	9.48	68.9°	2.7°	1.00	1.00
120°	6.26	3.13	8.30	79.3°	2.0°	1.00	1.00
135°	5.48	3.88	6.77	100.1°	1.4°	1.00	1.00
150°	5.03	4.35	5.66	123.6°	1.1°	1.00	1.00
165°	4.77	4.61	4.97	150.6°	0.7°	1.00	1.00
180°	4.66	4.66	4.76	180.0°	0.2°	1.00	1.00
176.3° (r)	4.68	4.67	4.77	172.8°	0.4°	1.00	1.00

TWS = 12 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
36.7° (b)	6.34	5.08	16.46	21.8°	23.6°	1.00	0.83
52°	7.00	4.31	15.94	29.6°	26.0°	1.00	0.91
60°	7.22	3.61	15.39	33.8°	27.1°	1.00	0.98
70°	7.45	2.55	14.91	40.8°	21.9°	1.00	1.00
75°	7.51	1.94	14.64	44.7°	18.2°	1.00	1.00
80°	7.52	1.31	14.32	48.6°	14.4°	1.00	1.00
90°	7.43	0.00	13.45	56.4°	7.2°	1.00	1.00
110°	7.00	2.39	11.06	73.6°	3.2°	1.00	1.00
120°	6.74	3.37	9.84	83.6°	2.5°	1.00	1.00
135°	6.24	4.42	8.18	102.4°	1.8°	1.00	1.00
150°	5.82	5.04	6.91	125.1°	1.4°	1.00	1.00
165°	5.56	5.37	6.11	151.4°	0.9°	1.00	1.00
180°	5.45	5.45	5.86	180.0°	0.3°	1.00	1.00
177.0° (r)	5.46	5.45	5.87	174.2°	0.5°	1.00	1.00

TWS = 14 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
35.2° (b)	6.42	5.25	18.36	21.8°	24.5°	1.00	0.70
52°	7.13	4.39	17.63	31.0°	27.2°	1.00	0.77
60°	7.38	3.69	17.01	35.5°	28.3°	1.00	0.84
70°	7.70	2.63	16.11	41.2°	29.1°	1.00	0.94
75°	7.85	2.03	15.62	44.2°	29.2°	1.00	1.00
80°	7.95	1.38	15.55	49.0°	23.7°	1.00	1.00
90°	7.90	0.00	15.03	58.3°	13.3°	1.00	1.00
110°	7.36	2.52	12.69	77.0°	3.8°	1.00	1.00
120°	7.08	3.54	11.42	87.6°	3.0°	1.00	1.00
135°	6.74	4.77	9.67	105.5°	2.3°	1.00	1.00
150°	6.48	5.61	8.24	126.9°	1.7°	1.00	1.00
165°	6.28	6.06	7.31	152.2°	1.2°	1.00	1.00
180°	6.17	6.17	7.03	180.0°	0.4°	1.00	1.00
177.7° (r)	6.17	6.17	7.03	175.8°	0.5°	1.00	1.00

TWS = 16 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
34.3° (b)	6.47	5.35	20.18	21.9°	25.9°	1.00	0.60
52°	7.22	4.45	19.30	32.2°	28.1°	1.00	0.67
60°	7.50	3.75	18.61	36.9°	29.2°	1.00	0.72
70°	7.85	2.68	17.62	43.0°	30.0°	1.00	0.81
75°	8.02	2.08	17.08	46.1°	30.2°	1.00	0.87
80°	8.19	1.42	16.51	49.4°	30.3°	1.00	0.95
90°	8.38	0.00	16.24	58.9°	21.2°	1.00	1.00
110°	7.79	2.66	14.36	79.4°	4.7°	1.00	1.00
120°	7.45	3.72	13.03	90.4°	3.6°	1.00	1.00
135°	7.10	5.02	11.23	108.5°	2.8°	1.00	1.00
150°	6.90	5.98	9.73	129.2°	2.2°	1.00	1.00
165°	6.77	6.54	8.71	153.4°	1.5°	1.00	1.00
180°	6.70	6.70	8.38	180.0°	0.5°	1.00	1.00
178.9° (r)	6.70	6.70	8.38	178.0°	0.6°	1.00	1.00

TWS = 20 Kts							
TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
34.8° (b)	6.53	5.36	22.48	23.2°	25.7°	0.51	0.60
52°	7.33	4.51	21.95	34.0°	28.1°	0.69	0.60
60°	7.64	3.82	21.52	39.3°	28.9°	0.82	0.60
70°	8.01	2.74	20.63	46.1°	30.9°	1.00	0.62
75°	8.22	2.13	20.02	49.6°	31.1°	1.00	0.67
80°	8.44	1.46	19.38	53.1°	31.3°	1.00	0.73
90°	8.88	0.00	18.04	60.5°	31.4°	1.00	0.89
110°	8.82	3.02	17.39	82.1°	12.6°	1.00	1.00
120°	8.36	4.18	16.26	93.7°	5.7°	1.00	1.00
135°	7.93	5.61	14.34	112.1°	4.0°	1.00	1.00
150°	7.70	6.67	12.76	132.5°	3.1°	1.00	1.00
165°	7.55	7.29	11.72	155.4°	2.1°	1.00	1.00
180°	7.47	7.47	11.38	180.0°	0.8°	1.00	1.00
178.8° (r)	7.47	7.47	11.38	178.0°	1.0°	1.00	1.00



World Leader in Rating Technology  
 © Offshore Racing Congress 2013  
 www.orc.org

### Polar Tables

Boat Name: **J/88**

Sail No:

Sail: **Asymmetric Spinnaker on CL**

Issued On: **5/2/2013 - VPP 2013 1.01**

### TWS = 6 Kts

TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	4.29	2.14	8.68	34.1°	14.5°	1.00	1.00
70°	5.17	1.77	8.88	36.3°	15.4°	1.00	1.00
75°	5.51	1.43	8.85	37.6°	15.7°	1.00	1.00
80°	5.79	1.01	8.74	38.9°	15.9°	1.00	1.00
90°	6.14	0.00	8.30	42.2°	16.0°	1.00	1.00
110°	6.08	2.08	6.67	52.2°	14.8°	1.00	1.00
120°	5.88	2.94	5.73	58.7°	13.3°	1.00	1.00
135°	5.23	3.70	4.18	74.4°	12.0°	1.00	1.00
150°	4.23	3.67	2.96	105.7°	11.4°	1.00	1.00
165°	3.39	3.27	2.67	146.5°	11.2°	1.00	1.00
180°	3.06	3.06	2.76	180.0°	11.2°	1.00	1.00
142.6° (r)	4.74	3.77	3.46	88.0°	11.7°	1.00	1.00

### TWS = 8 Kts

TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	5.49	2.75	11.34	34.4°	16.8°	1.00	1.00
70°	6.40	2.19	11.22	36.4°	22.8°	1.00	1.00
75°	6.61	1.71	10.86	37.7°	26.1°	1.00	0.99
80°	6.75	1.17	10.53	39.9°	26.4°	1.00	0.97
90°	6.92	0.00	9.87	45.5°	23.6°	1.00	1.00
110°	6.94	2.37	8.18	58.3°	16.5°	1.00	1.00
120°	6.89	3.44	7.14	65.0°	15.2°	1.00	1.00
135°	6.38	4.51	5.43	80.4°	12.6°	1.00	1.00
150°	5.35	4.63	4.04	109.8°	11.6°	1.00	1.00
165°	4.43	4.28	3.64	147.3°	11.3°	1.00	1.00
180°	4.03	4.03	3.72	180.0°	11.2°	1.00	1.00
144.3° (r)	5.80	4.70	4.46	96.4°	11.9°	1.00	1.00

### TWS = 10 Kts

TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	6.23	3.11	13.26	34.0°	26.5°	0.99	0.88
70°	6.73	2.30	12.77	38.6°	26.6°	0.95	0.81
75°	6.87	1.78	12.42	41.3°	26.6°	0.94	0.80
80°	6.99	1.21	12.01	44.0°	26.6°	0.94	0.85
90°	7.15	0.00	11.09	49.8°	26.7°	0.94	0.92
110°	7.63	2.61	9.42	62.6°	22.2°	1.00	1.00
120°	7.46	3.73	8.46	71.9°	16.1°	1.00	1.00
135°	7.00	4.95	6.67	88.7°	13.1°	1.00	1.00
150°	6.31	5.46	5.18	113.8°	11.8°	1.00	1.00
165°	5.36	5.18	4.70	148.5°	11.4°	1.00	1.00
180°	4.92	4.92	4.77	180.0°	11.3°	1.00	1.00
148.9° (r)	6.38	5.46	5.26	111.5°	11.9°	1.00	1.00

### TWS = 12 Kts

TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	6.49	3.25	14.94	35.8°	26.6°	0.87	0.86
70°	6.90	2.36	14.28	41.3°	26.6°	0.84	0.84
75°	7.03	1.82	13.88	44.3°	26.6°	0.84	0.85
80°	7.14	1.24	13.42	47.4°	26.6°	0.84	0.88
90°	7.34	0.00	12.42	53.8°	26.6°	0.84	0.95
110°	8.13	2.78	10.48	66.2°	26.7°	0.96	0.97
120°	8.16	4.08	9.83	76.1°	17.9°	1.00	1.00
135°	7.55	5.34	7.98	94.8°	14.5°	1.00	1.00
150°	6.90	5.97	6.51	119.2°	12.1°	1.00	1.00
165°	6.22	6.01	5.82	149.5°	11.5°	1.00	1.00
180°	5.77	5.77	5.87	180.0°	11.4°	1.00	1.00
157.8° (r)	6.59	6.10	6.00	134.3°	11.7°	1.00	1.00

### TWS = 14 Kts

TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	6.64	3.32	16.54	37.4°	26.6°	0.78	0.85
70°	7.02	2.40	15.79	43.5°	26.6°	0.77	0.85
75°	7.15	1.85	15.34	46.8°	26.6°	0.77	0.86
80°	7.26	1.26	14.83	50.1°	26.7°	0.76	0.92
90°	7.57	0.00	13.83	56.8°	26.6°	0.76	0.95
110°	8.48	2.90	11.75	70.3°	26.7°	0.89	1.00
120°	8.72	4.36	10.53	78.8°	26.7°	0.98	1.00
135°	8.21	5.81	9.33	98.4°	15.4°	1.00	1.00
150°	7.36	6.37	7.95	123.5°	12.4°	1.00	1.00
165°	6.79	6.56	7.19	151.4°	11.6°	1.00	1.00
180°	6.47	6.47	7.10	180.0°	11.5°	1.00	1.00
165.2° (r)	6.78	6.56	7.19	151.8°	11.6°	1.00	1.00

### TWS = 16 Kts

TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	6.74	3.37	18.10	38.9°	26.5°	0.71	0.85
70°	7.10	2.43	17.29	45.5°	26.6°	0.71	0.85
75°	7.23	1.87	16.78	48.9°	26.6°	0.70	0.89
80°	7.36	1.28	16.25	52.4°	26.6°	0.69	0.93
90°	7.82	0.00	15.29	59.2°	26.6°	0.71	0.93
110°	8.76	3.00	13.05	73.7°	26.7°	0.82	1.00
120°	9.12	4.56	11.80	82.4°	26.7°	0.91	1.00
135°	9.01	6.37	10.67	100.4°	16.2°	1.00	1.00
150°	7.92	6.86	9.35	126.1°	12.8°	1.00	1.00
165°	7.20	6.96	8.71	153.2°	11.8°	1.00	1.00
180°	6.92	6.92	8.59	180.0°	11.6°	1.00	1.00
167.7° (r)	7.12	6.96	8.66	158.1°	11.7°	1.00	1.00

### TWS = 20 Kts

TWA	BTV	VMG	AWS	AWA	Heel	Reef	Flat
60°	6.84	3.42	21.27	41.6°	26.2°	0.63	0.78
70°	7.19	2.46	20.25	48.7°	26.6°	0.62	0.85
75°	7.35	1.90	19.68	52.4°	26.6°	0.60	0.92
80°	7.58	1.32	19.16	56.0°	26.6°	0.60	0.94
90°	8.30	0.00	18.21	62.9°	26.6°	0.63	0.95
110°	9.34	3.19	15.73	78.8°	26.7°	0.72	1.00
120°	9.96	4.98	14.40	87.4°	26.7°	0.81	1.00
135°	11.23	7.94	12.29	100.7°	26.8°	1.00	1.00
150°	9.30	8.05	11.97	128.6°	14.6°	1.00	1.00
165°	8.21	7.93	11.60	155.0°	12.2°	1.00	1.00
180°	7.79	7.79	11.59	180.0°	11.9°	1.00	1.00
137.5° (r)	10.93	8.07	12.75	105.0°	18.9°	1.00	1.00