



PERFORMANCE PREDICTION

A red wireframe model of a yacht hull, showing the complex curvature of the hull and the keel. The model is positioned behind the main title text.

**DESIGN 608
FIRST 40 CR
2.45 m L-KEEL
FOR
BENETEAU**



DESCRIPTION OF SYMBOLS IN VPP OUTPUT

The accompanying document contains a large amount information about the predicted performance of your boat. To allow this document to be used as a valuable racing tool we have prepared the following explanation of the important terms it contains.

General Terms:

Vt or TWS	True Wind Speed
Bt or TWA	True Wind Angle
V or Vs	Boat Speed
VMG	Boat Velocity Made Good
HEEL	Heel Angle
REEF	Measure of Reduction in Sail Area
FLAT	Measure of Reduction in Sail Lift
Va, AWS	Apparent Wind Speed
Ba, AWA	Apparent Wind Angle
Lee	Leeway Angle
Sail	Sail Combination Designator (Upwind or Downwind)
Flot	Flotation Designator (Varies Only For Water Ballasted Boats)

VPP Polar Diagram

This is a graphical representation of the boats performance across a range of windspeeds and true wind directions. Optimal upwind and downwind conditions are marked as small rectangles on the boat speed contours for each windspeed.

Best Boatspeeds

The upper portion of this page gives a numerical representation of the polar diagram. Boatspeeds in knots are given for a series of true windspeeds at masthead height, across a range of true wind angles. All boatspeeds and windspeeds are given in knots. The shaded cells lie beyond the upwind and downwind optimum points. The two tables on the lower portion of the page provide a ready reference of useful details about the optimum upwind and downwind sailing conditions as a function of the true windspeeds (Vt's) across the top of the page. In addition to indicating the optimum upwind and downwind boat speeds in knots, they are also expressed in seconds/mile and in seconds/boat length. VMG is also expressed in seconds/mile.

Best Performance

This page is a detailed representation of the polar diagram showing a list of predicted performance variables for each windspeed over the range of true wind angles. All of those items listed in the "General Terms" section are listed and optimum upwind and downwind settings are included in bold type.

Best Boatspeeds (kt)											
	4	6	8	10	12	14	16	20	25	30	35
30.0	2.13	3.25	4.16	4.83	5.30	5.60	5.76	5.77	5.33	5.91	3.55
33.0	2.45	3.70	4.69	5.44	5.89	6.16	6.31	6.37	6.13	5.42	6.37
36.0	2.74	4.10	5.15	5.92	6.34	6.60	6.74	6.83	6.67	6.22	5.02
39.0	3.01	4.45	5.55	6.31	6.71	6.95	7.08	7.17	7.09	6.78	6.09
42.0	3.26	4.76	5.89	6.64	7.01	7.21	7.33	7.42	7.40	7.21	6.73
45.0	3.48	5.03	6.17	6.90	7.24	7.42	7.52	7.63	7.63	7.51	7.22
50.0	3.79	5.42	6.55	7.23	7.53	7.68	7.78	7.91	7.95	7.89	7.73
60.0	4.25	5.94	7.02	7.60	7.93	8.09	8.21	8.37	8.47	8.49	8.43
70.0	4.52	6.22	7.23	7.78	8.17	8.41	8.55	8.74	8.89	8.97	8.97
80.0	4.62	6.32	7.31	7.85	8.28	8.61	8.83	9.08	9.30	9.46	9.53
90.0	4.56	6.27	7.40	7.98	8.27	8.65	8.97	9.42	9.75	9.97	10.11
100.0	4.50	6.40	7.55	8.13	8.43	8.65	8.94	9.63	10.18	10.54	10.83
110.0	4.55	6.43	7.53	8.15	8.59	8.86	9.08	9.52	10.45	11.20	11.68
120.0	4.40	6.22	7.37	8.03	8.57	9.00	9.34	9.87	10.49	11.53	12.60
130.0	4.01	5.77	7.05	7.79	8.37	8.86	9.36	10.24	11.20	12.18	13.19
135.0	3.76	5.48	6.82	7.64	8.22	8.73	9.22	10.26	11.60	12.78	14.03
140.0	3.51	5.17	6.53	7.45	8.05	8.56	9.03	10.08	11.76	13.41	14.96
150.0	3.00	4.50	5.84	6.91	7.61	8.14	8.60	9.52	11.04	13.25	16.07
160.0	2.52	3.82	5.03	6.13	7.04	7.67	8.17	9.05	10.30	12.17	14.77
170.0	2.25	3.41	4.53	5.59	6.54	7.30	7.85	8.74	9.84	11.36	13.51
180.0	2.09	3.18	4.24	5.25	6.18	6.98	7.58	8.48	9.50	10.76	12.55
Up.Vs(kts)	3.57	5.01	5.97	6.58	6.84	6.97	7.03	7.13	7.19	7.22	7.22
Up.Vs(s/m)	1008.5	719.1	603.1	547.4	526.2	516.2	511.8	504.9	500.4	498.8	498.6
Up.Vs(s/L)	6.7	4.8	4.0	3.6	3.5	3.4	3.4	3.3	3.3	3.3	3.3
Up.Bt	46.4	44.7	42.8	41.4	40.3	39.3	38.6	38.7	40.0	42.2	45.2
Up.Vmg(kts)	2.46	3.56	4.38	4.93	5.22	5.40	5.50	5.57	5.51	5.35	5.09
Up.Vmg(s/m)	1462.4	1012.2	822.4	729.8	689.5	666.9	654.6	646.5	652.9	672.9	707.1
Up.Heel	2.6	5.7	9.8	15.9	19.7	21.7	23.3	24.0	24.5	24.8	25.3
Up.Reef	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.90	0.78	0.68	0.60
Up.Flat	1.00	1.00	1.00	1.00	0.88	0.76	0.65	0.63	0.67	0.72	0.79
Up.Twist	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Up.Va	6.96	10.18	12.99	15.45	17.59	19.62	21.59	25.45	30.14	34.66	39.00
Up.Ba	24.6	24.4	24.4	24.3	24.5	24.8	25.1	26.6	29.0	31.8	35.1
Up.Leewy	2.19	2.34	2.66	3.18	3.46	3.60	3.76	4.07	4.51	4.99	5.51
Dn.Vs(kts)	3.50	4.99	6.11	6.90	7.33	7.51	7.92	8.74	9.99	12.96	15.66
Dn.Vs(s/m)	1029.2	721.5	588.7	521.9	491.3	479.1	454.6	411.8	360.2	277.8	229.9
Dn.Vs(s/L)	6.8	4.8	3.9	3.5	3.2	3.2	3.0	2.7	2.4	1.8	1.5
Dn.Bt	140.2	142.7	146.2	150.2	155.2	163.9	167.5	169.8	166.3	152.5	153.9
Dn.Vmg(kts)	2.69	3.97	5.08	5.98	6.65	7.22	7.73	8.60	9.71	11.50	14.06
Dn.Vmg(s/m)	1338.8	906.7	708.2	601.6	541.3	498.7	465.6	418.4	370.7	313.1	256.1
Dn.Heel	0.7	1.3	1.6	1.7	1.5	1.1	1.1	1.4	3.4	12.8	17.2
Dn.Reef	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Dn.Flat	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Dn.Twist	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Dn.Va	2.59	3.64	4.48	5.28	6.17	7.09	8.44	11.50	15.47	19.20	21.57
Dn.Ba	80.6	86.6	96.9	109.7	125.3	146.8	155.8	162.0	157.5	135.3	136.9
Dn.Leewy	0.49	0.44	0.37	0.30	0.22	0.15	0.13	0.14	0.23	0.39	0.26

Best Performance

	TWS	TWA	V	VMG	Heel	Reef	Flat	Twist	AWS	AWA	Lee	Sail
OptUp >	4.0	30.0	2.128	1.843	1.8	1.000	1.000	1.000	5.94	19.7	4.21	Up
	4.0	33.0	2.450	2.055	2.0	1.000	1.000	1.000	6.20	20.6	3.52	Up
	4.0	36.0	2.743	2.219	2.1	1.000	1.000	1.000	6.42	21.5	3.06	Up
	4.0	39.0	3.012	2.340	2.3	1.000	1.000	1.000	6.62	22.3	2.73	Up
	4.0	42.0	3.255	2.419	2.5	1.000	1.000	1.000	6.78	23.2	2.48	Up
	4.0	45.0	3.476	2.458	2.6	1.000	1.000	1.000	6.91	24.1	2.27	Up
	4.0	46.4	3.570	2.462	2.6	1.000	1.000	1.000	6.96	24.6	2.19	Up
	4.0	50.0	3.793	2.438	2.7	1.000	1.000	1.000	7.06	25.7	2.01	Up
	4.0	60.0	4.254	2.127	2.8	1.000	1.000	1.000	7.15	29.0	1.65	Up
	4.0	70.0	4.521	1.546	2.7	1.000	1.000	1.000	6.98	32.5	1.38	Up
	4.0	80.0	4.619	0.802	2.3	1.000	1.000	1.000	6.61	36.5	1.17	Up
	4.0	90.0	4.561	-0.000	1.9	1.000	1.000	1.000	6.07	41.2	0.98	Up
OptDn >	4.0	100.0	4.496	-0.781	2.6	1.000	1.000	1.000	5.47	46.0	1.12	Dn
	4.0	110.0	4.552	-1.557	2.4	1.000	1.000	1.000	4.92	49.7	0.99	Dn
	4.0	120.0	4.398	-2.199	1.9	1.000	1.000	1.000	4.21	55.3	0.85	Dn
	4.0	130.0	4.008	-2.576	1.3	1.000	1.000	1.000	3.38	64.9	0.68	Dn
	4.0	135.0	3.763	-2.661	1.0	1.000	1.000	1.000	2.98	71.7	0.59	Dn
	4.0	140.0	3.510	-2.689	0.7	1.000	1.000	1.000	2.61	80.2	0.49	Dn
	4.0	140.2	3.498	2.689	0.7	1.000	1.000	1.000	2.59	80.6	0.49	Dn
	4.0	150.0	3.004	-2.601	0.3	1.000	1.000	1.000	2.05	103.0	0.30	Dn
	4.0	160.0	2.519	-2.367	0.1	1.000	1.000	1.000	1.85	132.2	0.15	Dn
	4.0	170.0	2.248	-2.214	0.0	1.000	1.000	1.000	1.83	157.7	0.08	Dn
	4.0	180.0	2.093	-2.093	0.0	1.000	1.000	1.000	1.91	180.0	-0.00	Dn
OptUp >	6.0	30.0	3.251	2.815	4.1	1.000	1.000	1.000	8.96	19.5	4.09	Up
	6.0	33.0	3.704	3.107	4.5	1.000	1.000	1.000	9.32	20.4	3.47	Up
	6.0	36.0	4.099	3.316	4.9	1.000	1.000	1.000	9.62	21.4	3.05	Up
	6.0	39.0	4.447	3.456	5.2	1.000	1.000	1.000	9.86	22.4	2.75	Up
	6.0	42.0	4.756	3.534	5.5	1.000	1.000	1.000	10.04	23.4	2.52	Up
	6.0	44.7	5.006	3.557	5.7	1.000	1.000	1.000	10.18	24.4	2.34	Up
	6.0	45.0	5.031	3.557	5.7	1.000	1.000	1.000	10.19	24.5	2.33	Up
	6.0	50.0	5.418	3.483	6.0	1.000	1.000	1.000	10.34	26.2	2.07	Up
	6.0	60.0	5.943	2.972	6.0	1.000	1.000	1.000	10.33	30.0	1.70	Up
	6.0	70.0	6.223	2.128	5.5	1.000	1.000	1.000	10.00	34.1	1.43	Up
	6.0	80.0	6.322	1.098	4.7	1.000	1.000	1.000	9.43	38.6	1.20	Up
	6.0	90.0	6.268	-0.000	3.9	1.000	1.000	1.000	8.67	43.7	1.00	Up
OptDn >	6.0	100.0	6.401	-1.112	6.0	1.000	1.000	1.000	7.95	47.6	1.19	Dn
	6.0	110.0	6.430	-2.199	5.3	1.000	1.000	1.000	7.12	52.1	1.05	Dn
	6.0	120.0	6.224	-3.112	4.1	1.000	1.000	1.000	6.10	58.1	0.88	Dn
	6.0	130.0	5.773	-3.711	2.7	1.000	1.000	1.000	4.97	67.3	0.68	Dn
	6.0	135.0	5.485	-3.878	2.1	1.000	1.000	1.000	4.42	73.7	0.59	Dn
	6.0	140.0	5.169	-3.959	1.5	1.000	1.000	1.000	3.90	81.6	0.49	Dn
	6.0	142.7	4.989	3.971	1.3	1.000	1.000	1.000	3.64	86.6	0.44	Dn
	6.0	150.0	4.499	-3.896	0.7	1.000	1.000	1.000	3.08	103.1	0.30	Dn
	6.0	160.0	3.818	-3.588	0.2	1.000	1.000	1.000	2.74	131.6	0.15	Dn
	6.0	170.0	3.412	-3.360	0.1	1.000	1.000	1.000	2.71	157.4	0.08	Dn
	6.0	180.0	3.178	-3.178	0.0	1.000	1.000	1.000	2.82	180.0	-0.00	Dn

Best Performance (cont)

	<i>TWS</i>	<i>TWA</i>	<i>V</i>	<i>VMG</i>	<i>Heel</i>	<i>Reef</i>	<i>Flat</i>	<i>Twist</i>	<i>AWS</i>	<i>AWA</i>	<i>Lee</i>	<i>Sail</i>
OptUp >	8.0	30.0	4.155	3.599	7.3	1.000	1.000	1.000	11.77	19.7	4.33	Up
	8.0	33.0	4.693	3.936	8.1	1.000	1.000	1.000	12.19	20.7	3.70	Up
	8.0	36.0	5.154	4.170	8.7	1.000	1.000	1.000	12.52	21.8	3.27	Up
	8.0	39.0	5.553	4.315	9.3	1.000	1.000	1.000	12.78	22.9	2.96	Up
	8.0	42.0	5.887	4.375	9.7	1.000	1.000	1.000	12.96	24.0	2.72	Up
	8.0	42.8	5.969	4.377	9.8	1.000	1.000	1.000	12.99	24.4	2.66	Up
	8.0	45.0	6.169	4.362	10.0	1.000	1.000	1.000	13.07	25.2	2.53	Up
	8.0	50.0	6.547	4.208	10.3	1.000	1.000	1.000	13.15	27.3	2.27	Up
	8.0	60.0	7.017	3.509	9.8	1.000	1.000	1.000	12.96	31.8	1.87	Up
	8.0	70.0	7.235	2.474	8.7	1.000	1.000	1.000	12.44	36.7	1.57	Up
OptDn >	8.0	80.0	7.305	1.269	7.3	1.000	1.000	1.000	11.69	42.0	1.30	Up
	8.0	90.0	7.400	-0.000	11.8	1.000	1.000	1.000	10.77	46.6	1.59	Dn
	8.0	100.0	7.552	-1.311	11.1	1.000	1.000	1.000	9.89	51.4	1.43	Dn
	8.0	110.0	7.534	-2.577	9.1	1.000	1.000	1.000	8.84	57.1	1.21	Dn
	8.0	120.0	7.370	-3.685	6.7	1.000	1.000	1.000	7.66	63.9	0.95	Dn
	8.0	130.0	7.049	-4.531	4.5	1.000	1.000	1.000	6.40	72.7	0.71	Dn
	8.0	135.0	6.817	-4.820	3.5	1.000	1.000	1.000	5.76	78.4	0.60	Dn
	8.0	140.0	6.533	-5.005	2.6	1.000	1.000	1.000	5.15	85.5	0.49	Dn
	8.0	146.2	6.115	5.083	1.6	1.000	1.000	1.000	4.48	96.9	0.37	Dn
	8.0	150.0	5.837	-5.055	1.2	1.000	1.000	1.000	4.15	105.3	0.30	Dn
OptUp >	8.0	160.0	5.034	-4.731	0.0	1.000	1.000	1.000	3.70	132.2	0.15	Dn
	8.0	170.0	4.533	-4.464	0.0	1.000	1.000	1.000	3.62	157.5	0.08	Dn
	8.0	180.0	4.237	-4.237	0.0	1.000	1.000	1.000	3.76	180.0	-0.00	Dn
	10.0	30.0	4.829	4.182	11.8	1.000	1.000	1.000	14.35	19.9	4.85	Up
	10.0	33.0	5.438	4.561	13.2	1.000	1.000	1.000	14.81	21.0	4.14	Up
	10.0	36.0	5.923	4.792	14.4	1.000	1.000	1.000	15.13	22.1	3.70	Up
	10.0	39.0	6.313	4.906	15.3	1.000	1.000	1.000	15.34	23.3	3.38	Up
	10.0	41.4	6.576	4.933	15.9	1.000	1.000	1.000	15.45	24.3	3.18	Up
	10.0	42.0	6.638	4.933	16.0	1.000	1.000	1.000	15.47	24.6	3.13	Up
	10.0	45.0	6.903	4.881	16.4	1.000	1.000	1.000	15.53	25.9	2.93	Up
OptDn >	10.0	50.0	7.229	4.647	16.4	1.000	1.000	1.000	15.51	28.3	2.64	Up
	10.0	60.0	7.602	3.801	14.7	1.000	1.000	1.000	15.13	33.6	2.17	Up
	10.0	70.0	7.784	2.662	12.3	1.000	1.000	1.000	14.49	39.3	1.79	Up
	10.0	80.0	7.850	1.363	9.9	1.000	1.000	1.000	13.64	45.3	1.47	Up
	10.0	90.0	7.975	-0.000	20.9	1.000	1.000	1.000	12.28	49.5	2.09	Dn
	10.0	100.0	8.132	-1.412	18.4	1.000	1.000	1.000	11.32	55.6	1.79	Dn
	10.0	110.0	8.152	-2.788	13.8	1.000	1.000	1.000	10.28	62.6	1.42	Dn
	10.0	120.0	8.032	-4.016	9.6	1.000	1.000	1.000	9.06	70.5	1.08	Dn
	10.0	130.0	7.793	-5.009	6.3	1.000	1.000	1.000	7.74	79.8	0.79	Dn
	10.0	135.0	7.635	-5.399	4.9	1.000	1.000	1.000	7.07	85.4	0.65	Dn
OptDn >	10.0	140.0	7.446	-5.704	3.7	1.000	1.000	1.000	6.42	91.9	0.52	Dn
	10.0	150.0	6.910	-5.984	1.8	1.000	1.000	1.000	5.30	109.3	0.30	Dn
	10.0	150.2	6.898	5.984	1.7	1.000	1.000	1.000	5.28	109.7	0.30	Dn
	10.0	160.0	6.134	-5.764	0.0	1.000	1.000	1.000	4.73	133.7	0.15	Dn
	10.0	170.0	5.593	-5.508	0.0	1.000	1.000	1.000	4.60	157.8	0.08	Dn
	10.0	180.0	5.246	-5.246	0.0	1.000	1.000	1.000	4.75	180.0	-0.00	Dn

Best Performance (cont)

	<i>TWS</i>	<i>TWA</i>	<i>V</i>	<i>VMG</i>	<i>Heel</i>	<i>Reef</i>	<i>Flat</i>	<i>Twist</i>	<i>AWS</i>	<i>AWA</i>	<i>Lee</i>	<i>Sail</i>
	12.0	30.0	5.303	4.592	15.2	1.000	0.876	1.000	16.73	20.3	4.88	Up
	12.0	33.0	5.888	4.938	17.0	1.000	0.877	1.000	17.13	21.4	4.25	Up
	12.0	36.0	6.342	5.131	18.3	1.000	0.878	1.000	17.39	22.6	3.84	Up
	12.0	39.0	6.711	5.215	19.4	1.000	0.881	1.000	17.55	24.0	3.55	Up
OptUp >	12.0	40.3	6.842	5.221	19.7	1.000	0.884	1.000	17.59	24.5	3.46	Up
	12.0	42.0	7.009	5.209	20.3	1.000	0.892	1.000	17.62	25.3	3.36	Up
	12.0	45.0	7.240	5.120	21.0	1.000	0.907	1.000	17.61	26.7	3.21	Up
	12.0	50.0	7.528	4.839	21.9	1.000	0.942	1.000	17.47	29.2	3.05	Up
	12.0	60.0	7.928	3.964	21.3	1.000	1.000	1.000	16.96	34.8	2.65	Up
	12.0	70.0	8.171	2.795	17.4	1.000	1.000	1.000	16.33	41.2	2.09	Up
	12.0	80.0	8.278	1.437	13.3	1.000	1.000	1.000	15.48	48.0	1.67	Up
	12.0	90.0	8.273	-0.000	10.1	1.000	1.000	1.000	14.42	55.0	1.33	Up
	12.0	100.0	8.434	-1.465	23.4	0.964	1.000	1.000	12.57	59.6	2.07	Dn
	12.0	110.0	8.586	-2.936	20.2	1.000	1.000	1.000	11.49	67.1	1.69	Dn
	12.0	120.0	8.567	-4.283	13.4	1.000	1.000	1.000	10.43	75.8	1.23	Dn
	12.0	130.0	8.367	-5.378	8.4	1.000	1.000	1.000	9.12	85.9	0.88	Dn
	12.0	135.0	8.222	-5.814	6.5	1.000	1.000	1.000	8.44	91.8	0.72	Dn
	12.0	140.0	8.049	-6.166	4.8	1.000	1.000	1.000	7.77	98.5	0.57	Dn
OptDn >	12.0	155.2	7.328	6.651	1.5	1.000	1.000	1.000	6.17	125.3	0.22	Dn
	12.0	160.0	7.038	-6.614	1.0	1.000	1.000	1.000	5.90	135.9	0.17	Dn
	12.0	170.0	6.541	-6.441	0.0	1.000	1.000	1.000	5.67	158.5	0.08	Dn
	12.0	180.0	6.179	-6.179	0.0	1.000	1.000	1.000	5.82	180.0	-0.00	Dn
	14.0	30.0	5.599	4.848	18.0	1.000	0.758	1.000	18.93	20.6	4.96	Up
	14.0	33.0	6.160	5.166	19.5	1.000	0.754	1.000	19.29	21.9	4.32	Up
	14.0	36.0	6.599	5.339	20.7	1.000	0.752	1.000	19.51	23.2	3.90	Up
	14.0	39.0	6.948	5.399	21.6	1.000	0.755	1.000	19.62	24.7	3.61	Up
OptUp >	14.0	39.3	6.974	5.398	21.7	1.000	0.756	1.000	19.62	24.8	3.60	Up
	14.0	42.0	7.215	5.362	22.4	1.000	0.766	1.000	19.63	26.2	3.43	Up
	14.0	45.0	7.420	5.247	23.0	1.000	0.780	1.000	19.57	27.7	3.30	Up
	14.0	50.0	7.684	4.939	23.7	1.000	0.812	1.000	19.36	30.5	3.13	Up
	14.0	60.0	8.088	4.044	24.0	0.974	0.957	1.000	18.72	36.3	2.87	Up
	14.0	70.0	8.415	2.878	23.5	1.000	1.000	1.000	17.89	42.4	2.52	Up
	14.0	80.0	8.608	1.495	18.0	1.000	1.000	1.000	17.14	49.9	1.92	Up
	14.0	90.0	8.652	-0.000	12.9	1.000	1.000	1.000	16.16	57.6	1.48	Up
	14.0	100.0	8.651	-1.502	23.7	0.889	1.000	1.000	14.07	63.8	2.11	Dn
	14.0	110.0	8.856	-3.029	24.0	0.965	1.000	1.000	12.69	71.3	1.88	Dn
	14.0	120.0	8.995	-4.498	18.6	1.000	1.000	1.000	11.66	80.1	1.41	Dn
	14.0	130.0	8.864	-5.698	11.1	1.000	1.000	1.000	10.53	90.7	0.97	Dn
	14.0	135.0	8.727	-6.171	8.4	1.000	1.000	1.000	9.86	96.8	0.79	Dn
	14.0	140.0	8.561	-6.558	6.2	1.000	1.000	1.000	9.20	103.6	0.63	Dn
	14.0	150.0	8.140	-7.049	3.0	1.000	1.000	1.000	8.05	119.7	0.35	Dn
	14.0	160.0	7.668	-7.206	1.4	1.000	1.000	1.000	7.28	138.9	0.19	Dn
OptDn >	14.0	163.9	7.514	7.219	1.1	1.000	1.000	1.000	7.09	146.8	0.15	Dn
	14.0	170.0	7.298	-7.187	0.0	1.000	1.000	1.000	6.93	159.5	0.09	Dn
	14.0	180.0	6.984	-6.984	0.0	1.000	1.000	1.000	7.02	180.0	-0.00	Dn

Best Performance (cont)

	<i>TWS</i>	<i>TWA</i>	<i>V</i>	<i>VMG</i>	<i>Heel</i>	<i>Reef</i>	<i>Flat</i>	<i>Twist</i>	<i>AWS</i>	<i>AWA</i>	<i>Lee</i>	<i>Sail</i>
OptUp >	16.0	30.0	5.760	4.988	20.0	1.000	0.655	1.000	21.01	21.0	5.09	Up
	16.0	33.0	6.314	5.295	21.4	1.000	0.650	1.000	21.34	22.4	4.43	Up
	16.0	36.0	6.743	5.455	22.4	1.000	0.648	1.000	21.52	23.8	4.00	Up
	16.0	38.6	7.033	5.499	23.3	1.000	0.653	1.000	21.59	25.1	3.76	Up
	16.0	39.0	7.079	5.501	23.4	1.000	0.654	1.000	21.59	25.3	3.72	Up
	16.0	42.0	7.326	5.444	23.8	0.990	0.679	1.000	21.57	27.0	3.54	Up
	16.0	45.0	7.522	5.319	24.0	0.969	0.727	1.000	21.49	28.8	3.40	Up
	16.0	50.0	7.784	5.003	24.1	0.939	0.814	1.000	21.25	31.8	3.23	Up
	16.0	60.0	8.207	4.103	24.1	0.905	0.984	1.000	20.56	38.0	2.95	Up
	16.0	70.0	8.549	2.924	24.4	0.948	1.000	1.000	19.60	44.3	2.62	Up
OptDn >	16.0	80.0	8.829	1.533	23.2	1.000	1.000	1.000	18.56	51.3	2.25	Up
	16.0	90.0	8.972	-0.000	16.8	1.000	1.000	1.000	17.75	59.6	1.66	Up
	16.0	100.0	8.938	-1.552	11.4	1.000	1.000	1.000	16.63	68.3	1.25	Up
	16.0	110.0	9.083	-3.106	24.4	0.899	1.000	1.000	14.16	75.2	1.90	Dn
	16.0	120.0	9.337	-4.668	24.6	1.000	1.000	1.000	12.67	83.9	1.64	Dn
	16.0	130.0	9.355	-6.013	14.6	1.000	1.000	1.000	11.90	94.5	1.07	Dn
	16.0	135.0	9.220	-6.519	10.7	1.000	1.000	1.000	11.31	100.7	0.86	Dn
	16.0	140.0	9.035	-6.921	7.7	1.000	1.000	1.000	10.69	107.5	0.68	Dn
	16.0	150.0	8.600	-7.448	3.8	1.000	1.000	1.000	9.56	123.4	0.39	Dn
	16.0	160.0	8.174	-7.681	1.9	1.000	1.000	1.000	8.77	141.4	0.22	Dn
OptUp >	16.0	167.5	7.920	7.733	1.1	1.000	1.000	1.000	8.44	155.8	0.13	Dn
	16.0	170.0	7.846	-7.727	0.0	1.000	1.000	1.000	8.38	160.6	0.10	Dn
	16.0	180.0	7.582	-7.582	0.0	1.000	1.000	1.000	8.42	180.0	-0.00	Dn
OptUp >	20.0	30.0	5.765	4.993	22.2	0.978	0.527	1.000	24.87	21.9	5.69	Up
	20.0	33.0	6.365	5.338	22.9	0.942	0.567	1.000	25.22	23.5	4.84	Up
	20.0	36.0	6.825	5.522	23.5	0.916	0.608	1.000	25.41	25.1	4.36	Up
	20.0	38.7	7.131	5.568	24.0	0.904	0.632	1.000	25.45	26.6	4.07	Up
	20.0	39.0	7.169	5.572	24.1	0.903	0.635	1.000	25.45	26.8	4.03	Up
	20.0	42.0	7.424	5.517	24.3	0.879	0.686	1.000	25.41	28.7	3.83	Up
	20.0	45.0	7.626	5.393	24.4	0.857	0.742	1.000	25.29	30.6	3.68	Up
	20.0	50.0	7.906	5.082	24.4	0.828	0.840	1.000	25.01	33.9	3.48	Up
	20.0	60.0	8.369	4.185	24.4	0.803	1.000	1.000	24.21	40.6	3.12	Up
	20.0	70.0	8.744	2.991	24.8	0.850	1.000	1.000	23.11	47.6	2.75	Up
OptDn >	20.0	80.0	9.077	1.576	24.9	0.911	1.000	1.000	21.83	54.9	2.42	Up
	20.0	90.0	9.422	-0.000	25.1	0.991	1.000	1.000	20.42	62.5	2.10	Up
	20.0	100.0	9.626	-1.672	17.8	1.000	1.000	1.000	19.74	71.8	1.48	Up
	20.0	110.0	9.520	-3.256	11.5	1.000	1.000	1.000	18.61	81.7	1.09	Up
	20.0	120.0	9.871	-4.935	25.9	0.890	1.000	1.000	15.59	90.5	1.66	Dn
	20.0	130.0	10.239	-6.581	23.8	0.999	1.000	1.000	14.26	100.6	1.27	Dn
	20.0	135.0	10.256	-7.252	17.4	1.000	1.000	1.000	14.04	106.1	0.97	Dn
	20.0	140.0	10.082	-7.723	11.9	1.000	1.000	1.000	13.63	112.6	0.76	Dn
	20.0	150.0	9.523	-8.247	5.9	1.000	1.000	1.000	12.64	128.1	0.47	Dn
	20.0	160.0	9.055	-8.508	3.2	1.000	1.000	1.000	11.90	145.0	0.29	Dn
OptDn >	20.0	169.8	8.743	8.604	1.4	1.000	1.000	1.000	11.50	162.0	0.14	Dn
	20.0	170.0	8.736	-8.603	0.0	1.000	1.000	1.000	11.50	162.4	0.14	Dn
	20.0	180.0	8.483	-8.483	0.0	1.000	1.000	1.000	11.52	180.0	-0.00	Dn

Best Performance (cont)

	<i>TWS</i>	<i>TWA</i>	<i>V</i>	<i>VMG</i>	<i>Heel</i>	<i>Reef</i>	<i>Flat</i>	<i>Twist</i>	<i>AWS</i>	<i>AWA</i>	<i>Lee</i>	<i>Sail</i>
	25.0	30.0	5.334	4.619	22.6	0.887	0.495	1.000	29.35	23.2	7.36	Up
	25.0	33.0	6.130	5.141	23.4	0.848	0.544	1.000	29.84	24.8	5.83	Up
	25.0	36.0	6.675	5.400	24.0	0.819	0.593	1.000	30.06	26.5	5.08	Up
	25.0	39.0	7.094	5.513	24.4	0.791	0.648	1.000	30.15	28.4	4.60	Up
OptUp >	25.0	40.0	7.194	5.514	24.5	0.783	0.667	1.000	30.14	29.0	4.51	Up
	25.0	42.0	7.398	5.498	24.6	0.768	0.707	1.000	30.10	30.4	4.31	Up
	25.0	45.0	7.632	5.397	24.7	0.747	0.769	1.000	29.98	32.4	4.10	Up
	25.0	50.0	7.950	5.110	24.7	0.721	0.873	1.000	29.66	35.9	3.84	Up
	25.0	60.0	8.473	4.236	24.9	0.711	1.000	1.000	28.73	43.1	3.37	Up
	25.0	70.0	8.895	3.042	25.3	0.753	1.000	1.000	27.49	50.6	2.95	Up
	25.0	80.0	9.305	1.616	25.5	0.809	1.000	1.000	26.08	58.5	2.56	Up
	25.0	90.0	9.747	-0.000	25.9	0.885	1.000	1.000	24.51	66.6	2.19	Up
	25.0	100.0	10.175	-1.767	26.2	0.983	1.000	1.000	22.85	75.2	1.85	Up
	25.0	110.0	10.446	-3.573	18.9	1.000	1.000	1.000	22.30	85.1	1.28	Up
	25.0	120.0	10.494	-5.247	27.2	0.783	1.000	1.000	19.37	95.9	1.66	Dn
	25.0	130.0	11.196	-7.197	28.6	0.920	1.000	1.000	17.51	106.2	1.29	Dn
	25.0	135.0	11.597	-8.201	28.2	0.999	1.000	1.000	16.72	111.3	1.07	Dn
	25.0	140.0	11.760	-9.009	20.4	1.000	1.000	1.000	16.77	116.1	0.76	Dn
	25.0	150.0	11.037	-9.558	9.6	1.000	1.000	1.000	16.26	130.7	0.49	Dn
OptDn >	25.0	166.3	9.995	9.711	3.4	1.000	1.000	1.000	15.47	157.5	0.23	Dn
	25.0	170.0	9.844	-9.695	0.0	1.000	1.000	1.000	15.40	163.6	0.17	Dn
	25.0	180.0	9.500	-9.500	0.0	1.000	1.000	1.000	15.50	180.0	-0.00	Dn
	30.0	30.0	5.909	5.117	35.0	0.968	0.967	1.000	34.17	21.1	0.51	Up
	30.0	33.0	5.417	4.543	23.3	0.772	0.535	1.000	34.06	26.1	8.15	Up
	30.0	36.0	6.220	5.032	24.2	0.737	0.596	1.000	34.47	27.8	6.45	Up
	30.0	39.0	6.782	5.271	24.6	0.710	0.655	1.000	34.65	29.7	5.55	Up
	30.0	42.0	7.210	5.358	24.8	0.686	0.718	1.000	34.68	31.7	4.99	Up
OptUp >	30.0	42.2	7.218	5.350	24.8	0.685	0.722	1.000	34.66	31.8	4.99	Up
	30.0	45.0	7.513	5.313	24.9	0.667	0.782	1.000	34.57	33.8	4.66	Up
	30.0	50.0	7.893	5.074	25.1	0.643	0.887	1.000	34.23	37.4	4.28	Up
	30.0	60.0	8.489	4.244	25.4	0.638	1.000	1.000	33.20	45.0	3.69	Up
	30.0	70.0	8.966	3.066	25.9	0.676	1.000	1.000	31.83	52.8	3.21	Up
	30.0	80.0	9.456	1.642	26.2	0.728	1.000	1.000	30.29	61.0	2.75	Up
	30.0	90.0	9.971	-0.000	26.8	0.799	1.000	1.000	28.58	69.6	2.33	Up
	30.0	100.0	10.537	-1.830	27.4	0.889	1.000	1.000	26.78	78.5	1.93	Up
	30.0	110.0	11.198	-3.830	27.8	0.998	1.000	1.000	24.96	87.8	1.53	Up
	30.0	120.0	11.526	-5.763	19.2	1.000	1.000	1.000	24.79	98.1	1.00	Up
	30.0	130.0	12.181	-7.830	30.3	0.831	1.000	1.000	21.07	109.7	1.18	Dn
	30.0	135.0	12.781	-9.038	31.3	0.919	1.000	1.000	19.99	114.9	0.97	Dn
	30.0	140.0	13.405	-10.269	30.3	0.999	1.000	1.000	19.21	119.9	0.75	Dn
	30.0	150.0	13.250	-11.475	15.2	1.000	1.000	1.000	19.27	131.3	0.42	Dn
OptDn >	30.0	152.5	12.960	11.498	12.8	1.000	1.000	1.000	19.20	135.3	0.39	Dn
	30.0	160.0	12.170	-11.436	8.0	1.000	1.000	1.000	18.97	147.6	0.31	Dn
	30.0	170.0	11.365	-11.192	0.0	1.000	1.000	1.000	18.91	164.0	0.17	Dn
	30.0	180.0	10.764	-10.764	0.0	1.000	1.000	1.000	19.24	180.0	-0.00	Dn

Best Performance (cont)

	TWS	TWA	V	VMG	Heel	Reef	Flat	Twist	AWS	AWA	Lee	Sail
	35.0	30.0	3.552	3.076	14.7	0.500	0.572	1.000	37.86	26.6	10.51	Up
	35.0	33.0	6.370	5.343	35.0	0.943	0.944	1.000	38.99	23.6	0.68	Up
	35.0	36.0	5.023	4.064	23.5	0.678	0.590	1.000	38.30	29.5	10.54	Up
	35.0	39.0	6.092	4.734	24.7	0.648	0.659	1.000	38.84	31.0	7.52	Up
	35.0	42.0	6.734	5.004	25.0	0.624	0.722	1.000	39.02	33.0	6.25	Up
	35.0	45.0	7.216	5.102	25.3	0.605	0.787	1.000	39.02	35.0	5.52	Up
OptUp >	35.0	45.2	7.221	5.091	25.3	0.604	0.791	1.000	39.00	35.1	5.51	Up
	35.0	50.0	7.726	4.966	25.5	0.583	0.888	1.000	38.72	38.7	4.87	Up
	35.0	60.0	8.426	4.213	26.1	0.579	1.000	1.000	37.60	46.4	4.10	Up
	35.0	70.0	8.966	3.067	26.6	0.613	1.000	1.000	36.09	54.5	3.53	Up
	35.0	80.0	9.526	1.654	27.2	0.662	1.000	1.000	34.41	63.0	3.00	Up
	35.0	90.0	10.114	-0.000	27.9	0.727	1.000	1.000	32.55	71.9	2.52	Up
	35.0	100.0	10.829	-1.880	28.6	0.810	1.000	1.000	30.64	81.1	2.04	Up
	35.0	110.0	11.677	-3.994	29.0	0.909	1.000	1.000	28.76	90.6	1.56	Up
	35.0	120.0	12.601	-6.301	27.3	0.999	1.000	1.000	27.39	100.3	1.07	Up
	35.0	130.0	13.194	-8.481	32.0	0.760	1.000	1.000	24.56	112.3	1.07	Dn
	35.0	135.0	14.025	-9.917	33.1	0.842	1.000	1.000	23.35	117.3	0.84	Dn
	35.0	140.0	14.956	-11.457	34.0	0.936	1.000	1.000	22.10	122.4	0.64	Dn
	35.0	150.0	16.071	-13.918	22.8	1.000	1.000	1.000	21.52	131.4	0.30	Dn
OptDn >	35.0	153.9	15.660	14.059	17.2	1.000	1.000	1.000	21.57	136.9	0.26	Dn
	35.0	160.0	14.771	-13.881	11.1	1.000	1.000	1.000	21.59	147.0	0.22	Dn
	35.0	170.0	13.505	-13.300	4.7	1.000	1.000	1.000	21.82	163.9	0.13	Dn
	35.0	180.0	12.548	-12.548	0.0	1.000	1.000	1.000	22.45	180.0	-0.00	Dn