



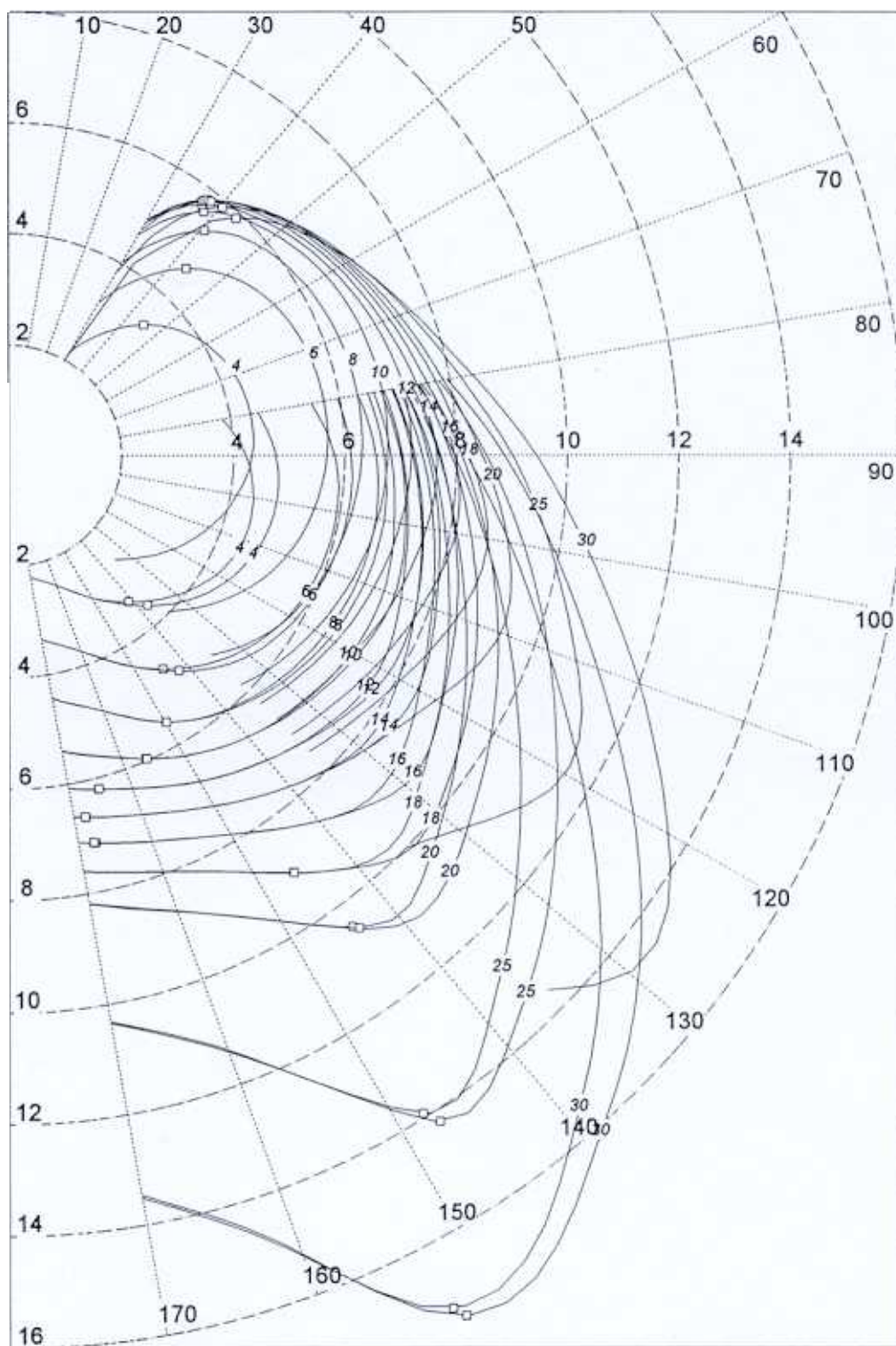
PERFORMANCE PREDICTION

DESIGN #316 - BENETEAU 25
FOR
CHANTIERS BENETEAU

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Yacht Designers
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**Design 316 - Beneteau 25
for Chantiers Beneteau**



Best Performance

	<i>TWS</i>	<i>TWA</i>	<i>V</i>	<i>VMG</i>	<i>Heel</i>	<i>Reef</i>	<i>Flat</i>	<i>AWS</i>	<i>AWA</i>	<i>Lee</i>	<i>Sail</i>	<i>Flot</i>
	4.0	30.0	2.159	1.870	1.7	1.000	1.000	5.97	19.6	3.95	Up	BASE
	4.0	33.0	2.455	2.059	1.8	1.000	1.000	6.20	20.6	3.36	Up	BASE
	4.0	36.0	2.695	2.180	2.2	1.000	1.000	6.38	21.6	2.99	Up	BASE
	4.0	39.0	2.936	2.282	2.4	1.000	1.000	6.55	22.6	2.68	Up	BASE
	4.0	42.0	3.153	2.343	2.5	1.000	1.000	6.68	23.6	2.44	Up	BASE
	4.0	45.0	3.349	2.368	2.6	1.000	1.000	6.79	24.6	2.25	Up	BASE
<i>OptUp ></i>	4.0	45.3	3.367	2.368	2.6	1.000	1.000	6.80	24.7	2.23	Up	BASE
	4.0	50.0	3.629	2.333	2.7	1.000	1.000	6.91	26.3	1.99	Up	BASE
	4.0	60.0	4.042	2.021	2.8	1.000	1.000	6.96	29.8	1.62	Up	BASE
	4.0	70.0	4.280	1.464	2.6	1.000	1.000	6.78	33.6	1.35	Up	BASE
							1.000	6.51	37.1	1.46	AsmD	BASE
							1.000	6.21	40.0	1.33	AsmD	BASE
							1.000	5.71	43.5	1.19	AsmD	BASE
							1.000	5.05	48.0	1.02	AsmD	BASE
							1.000	4.26	54.4	0.82	AsmD	BASE
							1.000	3.41	64.1	0.62	AsmD	BASE
							1.000	2.99	71.2	0.52	AsmD	BASE
<i>OptDn ></i>							1.000	2.78	75.7	0.47	AsmD	BASE
							1.000	2.61	80.4	0.42	AsmD	BASE
								2.07	104.6	0.31	Dn	BASE
										0.15	AsmD	BASE
										0.08		
	6.0	30.0	3.214	2.783	4.3	1.000	1.000	8.93	19.6	3.97	Up	BASE
	6.0	33.0	3.607	3.025	4.7	1.000	1.000	9.23	20.7	3.41	Up	BASE
	6.0	36.0	3.956	3.200	5.1	1.000	1.000	9.48	21.7	3.02	Up	BASE
	6.0	39.0	4.266	3.315	5.4	1.000	1.000	9.69	22.8	2.73	Up	BASE
	6.0	42.0	4.534	3.370	5.6	1.000	1.000	9.84	24.0	2.50	Up	BASE
<i>OptUp ></i>	6.0	43.1	4.622	3.373	5.7	1.000	1.000	9.88	24.4	2.43	Up	BASE
	6.0	45.0	4.762	3.367	5.8	1.000	1.000	9.94	25.1	2.32	Up	BASE
	6.0	50.0	5.068	3.258	5.9	1.000	1.000	10.03	27.1	2.07	Up	BASE
	6.0	60.0	5.460	2.730	5.7	1.000	1.000	9.91	31.4	1.71	Up	BASE
	6.0	70.0	5.642	1.930	5.1	1.000	1.000	9.53	36.1	1.44	Up	BASE
	6.0	80.0	5.945	1.032		1.000	1.000	9.11		1.76	AsmD	BASE
	6.0	90.0	6.102	-0.000		1.000	1.000	8.51		1.60	AsmD	BASE
	6.0	100.0	6.128	-1.064		1.000	1.000	7.76		1.36	AsmD	BASE
	6.0	110.0	6.051	-2.070		1.000	1.000	6.89		1.09	AsmD	BASE
	6.0	120.0	5.881	-2.940		1.000	1.000	5.93		0.84	AsmD	BASE
	6.0	130.0	5.575	-3.583		1.000	1.000	4.90		0.61	AsmD	BASE
	6.0	135.0	5.342	-3.777		1.000	1.000	4.38		0.51	AsmD	BASE
	6.0	140.0	5.041	-3.861		1.000	1.000	3.88		0.42	AsmD	BASE
<i>OptDn ></i>	6.0	142.0	4.904	3.866		1.000	1.000	3.69		0.38	AsmD	BASE
	6.0	150.0	4.370	-3.785		1.000	1.000	3.11		0.30	Dn	BASE
	6.0	160.0	3.732	-3.507		1.000	1.000	2.80		0.15	AsmD	BASE
	6.0	170.0	3.351	-3.300						0.08	Dn	BASE

Best Performance (cont)

	TWS	TWA	V	VMG	Heel	Reef	Flat	AWS	AWA	Lee	Sail	Flot
OptUp >	8.0	30.0	4.043	3.501	7.8	1.000	1.000	11.66	19.9	4.27	Up	BASE
	8.0	33.0	4.505	3.778	8.6	1.000	1.000	12.01	21.0	3.69	Up	BASE
	8.0	36.0	4.880	3.948	9.3	1.000	1.000	12.26	22.2	3.30	Up	BASE
	8.0	39.0	5.192	4.035	9.8	1.000	1.000	12.44	23.5	3.01	Up	BASE
	8.0	40.7	5.333	4.046	10.0	1.000	1.000	12.50	24.2	2.88	Up	BASE
	8.0	42.0	5.441	4.044	10.1	1.000	1.000	12.55	24.8	2.79	Up	BASE
	8.0	45.0	5.634	3.984	10.3	1.000	1.000	12.59	26.2	2.61	Up	BASE
	8.0	50.0	5.858	3.765	10.2	1.000	1.000	12.55	28.7	2.38	Up	BASE
	8.0	60.0	6.121	3.060	9.2	1.000	1.000	12.21	34.1	1.99	Up	BASE
OptDn >	8.0	70.0	6.257	2.140	7.8	1.000	1.000	11.68	39.6	1.66	Up	BASE
					16.8	1.000	0.897	10.91	43.7	2.14	AsmD	BASE
					16.3	1.000	0.973	10.19	48.9	1.96	AsmD	BASE
					11.8	1.000	1.000	9.42	55.0	1.59	AsmD	BASE
					8.2	1.000	1.000	8.45	61.7	1.24	AsmD	BASE
					5.6	1.000	1.000	7.36	69.5	0.93	AsmD	BASE
					3.5	1.000	1.000	6.23	79.0	0.66	AsmD	BASE
					2.7	1.000	1.000	5.67	84.8	0.55	AsmD	BASE
					2.0	1.000	1.000	5.14	91.5	0.44	AsmD	BASE
					1.2	1.000	1.000	4.25	109.0	0.31	Dn	BASE
					1.0	1.000	1.000	4.24	109.3	0.30	Dn	BASE
	8.0	160.0	4.878	-4.584	0.4	1.000	1.000	3.80	134.0	0.15	AsmD	BASE
										0.08		
OptUp >	10.0	30.0	4.600	3.984	13.2	1.000	0.972	14.13	20.2	4.80	Up	BASE
	10.0	33.0	5.048	4.233	14.2	1.000	0.944	14.43	21.5	4.08	Up	BASE
	10.0	36.0	5.390	4.360	14.8	1.000	0.920	14.63	22.9	3.61	Up	BASE
	10.0	38.3	5.591	4.387	15.2	1.000	0.913	14.71	24.0	3.38	Up	BASE
	10.0	39.0	5.649	4.390	15.4	1.000	0.913	14.73	24.3	3.32	Up	BASE
	10.0	42.0	5.839	4.340	16.2	1.000	0.920	14.74	25.8	3.16	Up	BASE
	10.0	45.0	5.990	4.236	16.7	1.000	0.932	14.71	27.4	3.03	Up	BASE
	10.0	50.0	6.196	3.982	17.3	1.000	0.962	14.59	30.1	2.86	Up	BASE
	10.0	60.0	6.515	3.258	15.3	1.000	1.000	14.23	36.0	2.40	Up	BASE
	10.0	70.0	6.691	2.289	11.5	1.000	1.000	13.68	42.3	1.93	Up	BASE
OptDn >	10.0	80.0	6.763	1.174	8.9	1.000	1.000	12.92	48.9	1.57	Up	BASE
	10.0	90.0	6.992	-0.000	17.2	0.921	0.936	11.84	53.8	1.95	AsmD	BASE
	10.0	100.0	7.187	-1.248	18.0	1.000	0.923	10.84	59.8	1.75	AsmD	BASE
	10.0	110.0	7.319	-2.503	12.6	1.000	1.000	9.96	67.0	1.39	AsmD	BASE
	10.0	120.0	7.166	-3.583	7.9	1.000	1.000	8.85	75.8	1.03	AsmD	BASE
	10.0	130.0	6.907	-4.440	4.9	1.000	1.000	7.65	86.4	0.74	AsmD	BASE
	10.0	135.0	6.758	-4.779	3.8	1.000	1.000	7.06	92.5	0.61	AsmD	BASE
	10.0	140.0	6.596	-5.053	2.9	1.000	1.000	6.51	99.4	0.50	AsmD	BASE
	10.0	150.0	6.224	-5.390	1.3	1.000	1.000	5.56	116.0	0.30	AsmD	BASE
	10.0	155.9	5.964	5.443	0.9	1.000	1.000	5.17	127.7	0.21	AsmD	BASE
	10.0	160.0	5.774	-5.425	0.6	1.000	1.000	4.98	136.7	0.17	Dn	BASE
	10.0	170.0	5.391	-5.309	0.3	1.000	1.000	4.78	158.7	0.08	Dn	BASE

Best Performance (cont)

	TWS	TWA	V	VMG	Heel	Reef	Flat	AWS	AWA	Lee	Sail	Flot
OptUp >	12.0	30.0	4.841	4.192	15.0	1.000	0.770	16.30	20.8	4.61	Up	BASE
	12.0	33.0	5.258	4.410	16.2	1.000	0.753	16.56	22.3	4.00	Up	BASE
	12.0	36.0	5.573	4.509	17.2	1.000	0.747	16.70	23.8	3.62	Up	BASE
	12.0	37.3	5.674	4.513	17.5	1.000	0.747	16.72	24.5	3.51	Up	BASE
	12.0	39.0	5.801	4.508	18.0	1.000	0.750	16.75	25.4	3.39	Up	BASE
	12.0	42.0	5.973	4.439	18.5	1.000	0.757	16.72	27.1	3.23	Up	BASE
	12.0	45.0	6.116	4.325	18.7	0.991	0.785	16.67	28.8	3.10	Up	BASE
	12.0	50.0	6.323	4.064	18.6	0.959	0.877	16.52	31.8	2.93	Up	BASE
	12.0	60.0	6.671	3.335	18.5	0.943	1.000	16.05	37.9	2.62	Up	BASE
	12.0	70.0	6.952	2.378	19.5	1.000	0.998	15.34	43.9	2.36	Up	BASE
	12.0	80.0	7.154	1.242	12.8	1.000	1.000	14.77	51.3	1.78	Up	BASE
		90.0	7.252	-0.000		0.830	0.966	13.56	57.7	1.95	AsmD	BASE
		100.0	7.512	-1.304		0.879	1.000	12.51	64.3	1.72	AsmD	BASE
OptDn >		110.0	7.748	-2.650		0.964	1.000	11.33	71.2	1.49	AsmD	BASE
		120.0	7.815	-3.908		1.000	1.000	10.35	79.9	1.11	AsmD	BASE
		130.0	7.514	-4.830		1.000	1.000	9.13	91.3	0.81	AsmD	BASE
		135.0	7.327	-5.181		1.000	1.000	8.53	97.8	0.68	AsmD	BASE
			7.138	-5.468		1.000	1.000	7.96	105.0	0.64	Dn	BASE
			6.758	-5.853						0.35	AsmD	BASE
			6.365	-5.981						0.20	Dn	BASE
			6.202	5.998						0.14	Dn	BASE
			6.077	-5.984						0.09	Dn	BASE
OptUp >	14.0	30.0	4.923	4.263	17.2	1.000	0.638	18.31	21.4	4.76	Up	BASE
	14.0	33.0	5.339	4.478	18.3	1.000	0.627	18.55	23.0	4.12	Up	BASE
	14.0	36.0	5.649	4.570	18.8	0.979	0.655	18.68	24.7	3.76	Up	BASE
	14.0	36.9	5.715	4.568	18.8	0.970	0.670	18.69	25.2	3.69	Up	BASE
	14.0	39.0	5.870	4.562	18.8	0.951	0.704	18.71	26.5	3.53	Up	BASE
	14.0	42.0	6.044	4.491	18.8	0.926	0.757	18.69	28.3	3.37	Up	BASE
	14.0	45.0	6.193	4.379	18.8	0.905	0.814	18.62	30.2	3.24	Up	BASE
	14.0	50.0	6.413	4.122	18.6	0.874	0.915	18.46	33.4	3.06	Up	BASE
	14.0	60.0	6.783	3.392	18.6	0.876	1.000	17.95	39.8	2.69	Up	BASE
	14.0	70.0	7.097	2.427	18.7	0.922	1.000	17.22	46.4	2.35	Up	BASE
	14.0	80.0	7.408	1.286	20.5	1.000	0.993	16.24	52.7	2.11	Up	BASE
	14.0	90.0	7.646	-0.000	12.6	1.000	1.000	15.66	60.8	1.52	Up	BASE
								14.		1.69	AsmD	BASE
OptDn >								12.		1.44	AsmD	BASE
								11.		1.21	AsmD	BASE
								10.		0.84	AsmD	BASE
								10.		0.72	AsmD	BASE
										0.67	Dn	BASE
										0.39	AsmD	BASE
										0.24	Dn	BASE
										0.13	Dn	BASE
										0.11	Dn	BASE

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>AWS</i>	<i>AWA</i>	<i>Lee</i>	<i>Sail</i>	<i>Flot</i>
OptUp >	16.0	30.0	4.910	4.253	18.2	0.972	0.576	20.25	22.0	5.07	Up	BASE
	16.0	33.0	5.353	4.489	18.6	0.936	0.618	20.51	23.8	4.37	Up	BASE
	16.0	36.0	5.677	4.593	18.9	0.906	0.665	20.64	25.5	3.97	Up	BASE
	16.0	37.2	5.763	4.592	18.9	0.895	0.686	20.65	26.3	3.87	Up	BASE
	16.0	39.0	5.907	4.591	18.9	0.879	0.719	20.67	27.4	3.71	Up	BASE
	16.0	42.0	6.089	4.525	18.9	0.857	0.772	20.64	29.4	3.53	Up	BASE
	16.0	45.0	6.246	4.417	18.9	0.837	0.831	20.57	31.4	3.39	Up	BASE
	16.0	50.0	6.480	4.165	18.7	0.808	0.938	20.39	34.7	3.18	Up	BASE
	16.0	60.0	6.872	3.436	18.7	0.819	1.000	19.83	41.4	2.77	Up	BASE
	16.0	70.0	7.223	2.470	18.8	0.863	1.000	19.07	48.3	2.39	Up	BASE
	16.0	80.0	7.591	1.318	18.9	0.920	1.000	18.16	55.2	2.04	Up	BASE
	16.0	90.0	7.971	-0.000	19.4	1.000	1.000	17.07	62.2	1.73	Up	BASE
OptDn >	16.0	100.0	8.096	-1.406	11.0	1.000	1.000	16.36	71.0	1.23	Up	BASE
	16.0	110.0	8.506	-2.909	18.5	0.826	1.000	14.57	78.0	1.37	AsmD	BASE
	16.0	120.0	8.917	-4.458	19.0	0.922	1.000	13.13	86.0	1.11	AsmD	BASE
	16.0	130.0	9.216	-5.924	13.8	1.000	1.000	11.95	95.1	0.80	AsmD	BASE
	16.0	135.0	8.939	-6.321	9.6	1.000	1.000	11.41	102.0	0.69	AsmD	BASE
	16.0	140.0	8.579	-6.572	7.0	1.000	1.000	10.85	109.8	0.59	AsmD	BASE
	16.0	150.0	7.862	-6.809	3.7	1.000	1.000	9.98	126.9	0.41	AsmD	BASE
	16.0	160.0	7.377	-6.932		1.000	1.000	9.41	144.5	0.27	Dn	BASE
	16.0	167.6	7.131	6.965		1.000	1.000	9.16	158.0	0.16	Dn	BASE
	16.0	170.0	7.068	-6.961		1.000	1.000	9.12	162.3	0.13	Dn	BASE
OptUp >	18.0	30.0	4.838	4.190	18.2	0.910	0.575	22.14	22.7	5.52	Up	BASE
	18.0	33.0	5.326	4.466	18.8	0.876	0.621	22.43	24.4	4.68	Up	BASE
	18.0	36.0	5.673	4.589	19.1	0.850	0.665	22.57	26.3	4.20	Up	BASE
	18.0	37.6	5.797	4.594	19.1	0.835	0.695	22.58	27.3	4.06	Up	BASE
	18.0	39.0	5.918	4.599	19.1	0.823	0.723	22.60	28.3	3.92	Up	BASE
	18.0	42.0	6.110	4.541	19.0	0.799	0.785	22.57	30.3	3.72	Up	BASE
	18.0	45.0	6.277	4.439	18.9	0.779	0.850	22.50	32.4	3.55	Up	BASE
	18.0	50.0	6.525	4.194	18.7	0.751	0.960	22.31	35.8	3.32	Up	BASE
	18.0	60.0	6.941	3.471	18.8	0.769	1.000	21.72	42.8	2.86	Up	BASE
	18.0	70.0	7.333	2.508	19.0	0.811	1.000	20.93	49.9	2.44	Up	BASE
	18.0	80.0	7.747	1.345	19.0	0.866	1.000	19.98	57.0	2.05	Up	BASE
	18.0	90.0	8.213	-0.000	19.2	0.938	1.000	18.87	64.2	1.69	Up	BASE
OptDn >	18.0	100.0	8.680	-1.507	16.1	1.000	1.000	17.92	71.9	1.27	Up	BASE
		110.0	8.898	-3.043						1.30	AsmD	BASE
		120.0	9.427	-4.713						1.02	AsmD	BASE
		130.0	9.949	-6.395						0.80	AsmD	BASE
		135.0	10.064	-7.116						0.62	AsmD	BASE
		140.0	9.663	-7.402						0.53	AsmD	BASE
		146.0	9.057	7.504						0.45	AsmD	BASE
		150.0	8.646	-7.488						0.40	AsmD	BASE
		160.0	7.957	-7.478						0.29	Dn	BASE
		170.0	7.586	-7.471						0.14	Dn	BASE

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>AWS</i>	<i>AWA</i>	<i>Lee</i>	<i>Sail</i>	<i>Flot</i>
OptUp >	20.0	30.0	4.706	4.075	18.3	0.861	0.571	23.99	23.3	6.15	Up	BASE
	20.0	33.0	5.247	4.400	19.0	0.830	0.614	24.31	25.1	5.09	Up	BASE
	20.0	36.0	5.633	4.557	19.2	0.799	0.671	24.48	27.0	4.50	Up	BASE
	20.0	38.2	5.822	4.574	19.2	0.779	0.715	24.50	28.5	4.26	Up	BASE
	20.0	39.0	5.903	4.587	19.2	0.772	0.732	24.52	29.0	4.15	Up	BASE
	20.0	42.0	6.109	4.540	19.1	0.749	0.797	24.49	31.1	3.92	Up	BASE
	20.0	45.0	6.288	4.446	19.0	0.729	0.864	24.42	33.2	3.73	Up	BASE
	20.0	50.0	6.552	4.212	18.8	0.704	0.975	24.23	36.8	3.46	Up	BASE
	20.0	60.0	6.994	3.497	19.0	0.726	1.000	23.60	43.9	2.95	Up	BASE
	20.0	70.0	7.427	2.540	19.1	0.766	1.000	22.78	51.2	2.50	Up	BASE
	20.0	80.0	7.888	1.370	19.2	0.818	1.000	21.79	58.6	2.08	Up	BASE
	20.0	90.0	8.458	-0.000	19.5	0.887	1.000	20.66	65.8	1.66	Up	BASE
	20.0	100.0	9.049	-1.571	20.0	0.976	1.000	19.33	73.2	1.31	Up	BASE
	20.0	110.0	9.345	-3.196	12.1	1.000	1.000	18.54	82.2	0.90	Up	BASE
OptDn >	120.0	9.941	-4.970							0.94	AsmD	BASE
	130.0	10.620	-6.827							0.70	AsmD	BASE
	135.0	10.972	-7.758							0.60	AsmD	BASE
	140.0	10.980	-8.411							0.45	AsmD	BASE
	143.7	10.534	8.490							0.41	AsmD	BASE
	150.0	9.654	-8.361							0.36	AsmD	BASE
	160.0	8.714	-8.188							0.28	Dn	BASE
	170.0	8.179	-8.055							0.14	Dn	BASE
OptUp >	25.0	30.0	3.812	3.301	17.2	0.778	0.535	28.12	25.1	8.00	Up	BASE
	25.0	33.0	4.780	4.009	19.0	0.732	0.616	28.79	26.6	6.90	Up	BASE
	25.0	36.0	5.344	4.324	19.3	0.700	0.678	29.09	28.5	5.63	Up	BASE
	25.0	39.0	5.742	4.463	19.4	0.674	0.745	29.22	30.5	4.95	Up	BASE
	25.0	40.5	5.859	4.457	19.4	0.664	0.779	29.21	31.6	4.78	Up	BASE
	25.0	42.0	6.014	4.469	19.3	0.652	0.815	29.22	32.7	4.55	Up	BASE
	25.0	45.0	6.232	4.407	19.2	0.634	0.885	29.16	34.9	4.27	Up	BASE
	25.0	50.0	6.546	4.208	19.1	0.613	0.994	28.97	38.7	3.90	Up	BASE
	25.0	60.0	7.060	3.530	19.4	0.638	1.000	28.28	46.2	3.26	Up	BASE
	25.0	70.0	7.586	2.595	19.6	0.673	1.000	27.39	53.9	2.70	Up	BASE
	25.0	80.0	8.192	1.423	19.9	0.720	1.000	26.33	61.6	2.16	Up	BASE
	25.0	90.0	8.999	-0.000	20.4	0.780	1.000	25.10	69.0	1.63	Up	BASE
	25.0	100.0	9.848	-1.710	20.9	0.858	1.000	23.65	76.5	1.20	Up	BASE
	25.0	110.0	10.794	-3.692	21.4	0.956	1.000	21.98	84.1	0.85	Up	BASE
	25.0	120.0	11.472	-5.736	14.0	1.000	1.000	21.03	92.8	0.53	Up	BASE
OptDn >	130.0	12.573	-8.082				1.000	18.13	101.1	0.47	AsmD	BASE
	135.0	13.207	-9.339				1.000	16.96	105.3	0.37	AsmD	BASE
	140.0	13.826	-10.591				1.000	15.73	109.8	0.29	AsmD	BASE
	147.2	14.197	11.936				1.000	14.81	117.4	0.19	AsmD	BASE
	150.0	13.538	-11.725				1.000	14.74	123.4	0.18	AsmD	BASE
	160.0	11.368	-10.682						144.9	0.19	Dn	BASE
	170.0	10.332	-10.175						163.1	0.11	Dn	BASE

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>AWS</i>	<i>AWA</i>	<i>Lee</i>	<i>Sail</i>	<i>Flot</i>
	30.0	30.0	2.003	1.735	35.0	0.509	0.283	30.56	23.7	8.00	Up	BASE
	30.0	33.0	4.293	3.600	33.9	0.862	0.863	32.43	24.7	8.00	Up	BASE
	30.0	36.0	4.584	3.709	18.6	0.631	0.674	33.34	30.1	8.00	Up	BASE
	30.0	39.0	5.279	4.103	19.5	0.604	0.750	33.68	31.9	6.52	Up	BASE
	30.0	42.0	5.743	4.268	19.6	0.583	0.821	33.82	34.0	5.56	Up	BASE
<i>OptUp ></i>	30.0	43.6	5.879	4.259	19.6	0.574	0.858	33.80	35.2	5.34	Up	BASE
	30.0	45.0	6.050	4.278	19.5	0.566	0.891	33.81	36.3	5.04	Up	BASE
	30.0	50.0	6.439	4.139	19.5	0.548	0.994	33.63	40.1	4.48	Up	BASE
	30.0	60.0	7.042	3.521	19.9	0.569	1.000	32.91	47.9	3.66	Up	BASE
	30.0	70.0	7.651	2.617	20.2	0.601	1.000	31.95	55.9	2.97	Up	BASE
	30.0	80.0	8.409	1.460	20.7	0.644	1.000	30.80	63.8	2.30	Up	BASE
	30.0	90.0	9.434	-0.000	21.3	0.698	1.000	29.49	71.3	1.63	Up	BASE
	30.0	100.0	10.571	-1.836	22.0	0.767	1.000	27.91	78.9	1.12	Up	BASE
	30.0	110.0	12.001	-4.105	22.6	0.851	1.000	26.08	86.2	0.70	Up	BASE
	30.0	120.0	13.613	-6.806	23.2	0.958	1.000	23.92	93.3	0.41	Up	BASE
	30.0	130.0	14.682	-9.438	22.8	0.697	1.000	21.67	102.3	0.31	AsmD	BASE
	30.0	135.0	15.504	-10.963	23.4	0.756	1.000	20.29	106.3	0.23	AsmD	BASE
	30.0	140.0	16.275	-12.467	24.0	0.831	1.000	18.85	110.8	0.18	AsmD	BASE
	30.0	150.0	17.582	-15.227	20.6	1.000	1.000	16.36	120.9	0.10	AsmD	BASE
<i>OptDn ></i>	30.0	152.1	17.440	15.414	14.8	1.000	1.000	16.32	123.8	0.09	AsmD	BASE
	30.0	160.0	15.255	-14.335	7.2	1.000	1.000	16.46	141.8	0.09	Dn	BASE
	30.0	170.0	13.493	-13.288	3.1	1.000	1.000	16.87	162.0	0.06	Dn	BASE

Best Boatspeeds (kt)

	4	6	8	10	12	14	16	18	20	25	30
30.0	2.16	3.21	4.04	4.84				4.84		3.81	
33.0	2.45	3.61	4.51	5.33				5.33		4.78	
36.0	2.70	3.96	4.88	5.67				5.67		5.34	
39.0	2.94	4.27	5.19	5.92				5.92		5.74	
42.0	3.15	4.53	5.44	6.11				6.11		6.01	
45.0	3.35	4.76	5.63	6.28				6.28		6.23	
50.0	3.63	5.07	5.86	6.53				6.53		6.55	
60.0	4.04	5.46	6.12	6.94				6.94		7.06	
70.0	4.28	5.64	6.26	7.33				7.33		7.59	
80.0	4.50	5.94	6.50	7.75				7.75		8.19	
90.0	4.75	6.10	6.70	8.21				8.21		9.00	
100.0	4.83	6.13	6.79	8.68				8.68		9.85	
110.0	4.75	6.05	6.74	8.90				8.90		10.79	
120.0	4.48	5.88	6.58	9.43				9.43		11.47	
130.0	4.06	5.57	6.33	9.95				9.95		12.57	
135.0	3.79	5.34	6.17	10.06				10.06		13.21	
140.0	3.50	5.04	5.99	9.66				9.66		13.83	
150.0	2.94	4.37	5.53	8.65				8.65		13.54	
160.0	2.48	3.73	4.88	7.96				7.96		11.37	
170.0	2.22	3.35	4.43	7.59				7.59		10.33	
Up.Vs	3.37	4.62	5.33	5.59	5.67	5.71	5.76	5.80	5.82	5.86	5.88
Up.Bt	45.3	43.1	40.7	38.3	37.3	36.9	37.2	37.6	38.2	40.5	43.6
Up.Vmg	2.37	3.37	4.05	4.39	4.51	4.57	4.59	4.59	4.57	4.46	4.26
Dn.Vs	3.64	4.90	5.53	5.96	6.20	6.64	7.13	9.06	10.53	14.20	17.44
Dn.Bt	137.6	142.0	149.9	155.9	165.3	168.2	167.6	146.0	143.7	147.2	152.1
Dn.Vmg	2.69	3.87	4.79	5.44	6.00	6.50	6.96	7.50	8.49	11.94	15.41

**Design 316 - Beneteau 25
for Chantiers Beneteau**

Flotation: 316

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Basics				Heel Functions		Appendages			
Dspl	1688.7	Awp	8.30	Heel	WSc		ws	cm	tc
Ls0	7.221	LCB	0.555	0	9.351	Fin	1.169	0.528	0.118
Ld0	7.794	LCF	0.581	2	9.353	Bulb	0.826	1.178	0.209
Be	1.758	GYR	0.25	10	9.284	Rud	0.626	0.271	0.122
Bmax	2.626	Ad+/-	0.000	25	9.077	Other	0.000	0.000	0.000
Te	0.299	PIPA	0.000	40	9.170				
Tmax	1.636	FF	0.901						
Trud	1.219	FM	0.803						
Ax	0.405	FA	0.627					WtCrw	400.0
Cp	0.537							ArmCrw	1.100

Factors & Coefficients

Wing/CB Eff	0.333	Wndg Rigging	1.000	Raw/Methd	Internal	Surf Thrust	Off
Tot Eff Span	1.000	Wndg Hull	1.000	Raw/Offst	0.000		
Canoe Form	0.103	MAF	0.600	Raw/Factr	0.6		
Bulb dT	0.000			Raw/Bubbl	0.675		
				Vt Grad	0.100		

Rig and Sail Plan Dimensions

	Main		Fore		Spin		Mizzen		MizStay		Mast
P	9.400	IM		ISP	9.670	PY	0.000	YSF	0.000	MBT	0.073
E	3.650	J		SPL	3.300	EY	0.000	YSMG	0.000	MBL	0.118
BAS	1.180	LP		SW	5.640	BASY	0.000	YSD	0.000	MTT	0.063
		HBI		SLU	9.500	HBIY	0.000	HBIYS	0.000	MTL	0.095
				SLE	9.500	EB	0.000			TL	1.480
										ML	10.740

Sail Inventory

Name	Area	Span	BaseHt	AFx	Aero	Base
Spin		9.670	0.000	----	Spin_0	SPIN
Asym_Spin		9.670	0.000		ASpin_mod	SPIN
Jib		9.100	0.000		Jib_0	HEAD
Main		9.400	1.180		Main_0	MAIN

Windage Elements

Name	Ax	Ay	Cdx	Cdy	Ht	Type	Wndg
MastSail		1.233	0.349	1.000	10.740	mast/s	CPLW 0.900
Hull		5.463	0.300	0.800	-0.401	hull	RM/d 18.598
MainRigging		0.367	1.000	1.000	4.444	rigging	FFofst -0.008
Crew		0.619	1.000	1.000	0.500	crew	FMofst -0.009
MastBare		1.233	0.936	1.300	10.740	mast/wos	FAofst -0.013

Opsets

Name	Flotation	SailSet	Sails	VtLo	VtHi	BtLo	BtHi	VaLim
Ops_Down		Downwind	Spin/Main/				180.0	99.0
Ops_Upwind		Upwind	Jib/Main/				135.0	99.0
Asym_Down		Asym_Down	Main/Asym_Spin/				180.0	70.0

Notes

316 VPP Inputs - Reanalysis of FASTSHIP Output
Flotation Information from file 316MV07

Course Times

	OCEAN <u>1.00 nm.</u>	OLYMPIC <u>1.00 nm.</u>	LR <u>1.00 nm.</u>	WL <u>1.00 nm.</u>	CR <u>1.00 nm.</u>
4.0	0.0	1337.9	0.0	1429.8	0.0
6.0	0.0	939.3	0.0	999.2	0.0
8.0	0.0	784.3	0.0	821.0	0.0
10.0	0.0	716.0	0.0	741.0	0.0
12.0	0.0	681.2	0.0	698.9	0.0
14.0	0.0	656.5	0.0	671.0	0.0
16.0	0.0	635.1	0.0	650.5	0.0
18.0	0.0	616.3	0.0	631.7	0.0
20.0	0.0	600.1	0.0	605.5	0.0
25.0	0.0	574.4	0.0	554.6	0.0
30.0	0.0	572.1	0.0	539.4	0.0



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Table of Symbols for VPP Output

<i>Vt</i>	True Wind Speed
<i>Bt</i>	True Wind Angle
<i>Vs</i>	Boatspeed
<i>Vmg</i>	Velocity Made Good towards the Wind Direction
<i>Heel</i>	Heel Angle
<i>Reef</i>	Measure of Reduction in Sail Area
<i>Flat</i>	Measure of Reduction in Sail Lift
<i>Va</i>	Apparent Wind Speed
<i>Ba</i>	Apparent Wind Angle
<i>Lee</i>	Leeway Angle
<i>Sail</i>	Sail Combination Designator
<i>Flot</i>	Flotation Designator (For Water Ballasted Boats)