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FARR

PERFORMANCE PREDICTION

DESIGN 273 - BENETEAU 60

FOR

BENETEAU

BRUCE FARR & ASSOCIATES, INC. YACHT DESIGNERS

613 THIRD ST., P.O. BOX 4964, ANNAPOLIS, MD 21403 USA (301) 267-0780 FAX 301-268-0553

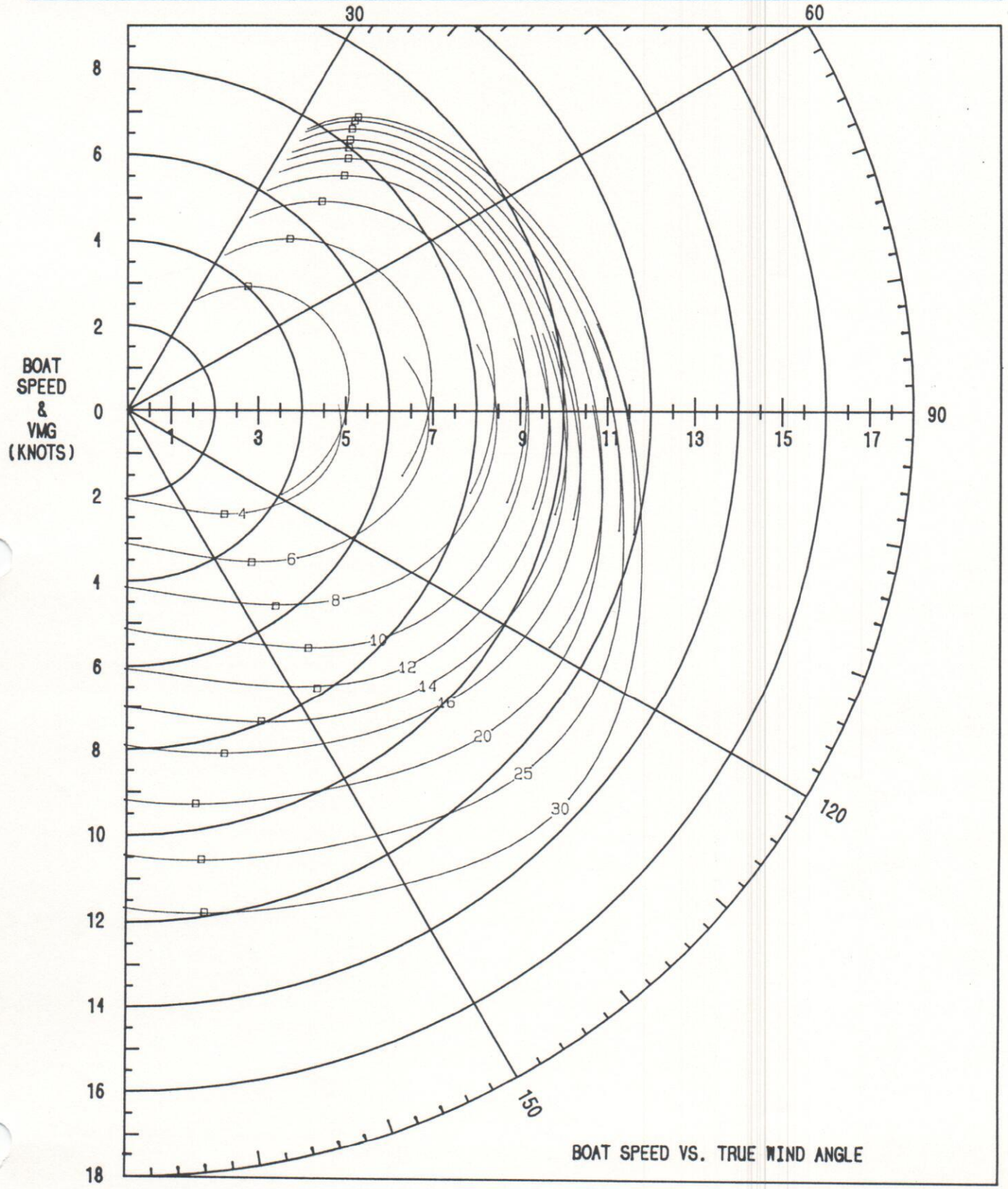
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POLAR PLOT

DESIGN 273 - BENETEAU 60

for BENETEAU

24 Mar 1992



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DESIGN 273 - BENETEAU 60

for BENETEAU

24 Mar 1992

	TRUE WIND SPEED	TRUE WIND ANGLE	APP. WIND SPEED	APP. WIND ANGLE	BOAT SPEED	VELOCITY MADE GOOD	HEEL ANGLE	LEEWAY ANGLE	FLAT COEFF.	REEF COEFF.
------	**4.0 knots True Wind Speed**									
	33.0	7.0	21.7	2.895	2.428	2.0	4.66	1.00	1.00
	36.0	7.2	23.3	3.183	2.575	2.2	4.17	1.00	1.00
	39.0	7.4	24.7	3.449	2.680	2.3	3.79	1.00	1.00
	42.0	7.6	26.0	3.692	2.744	2.5	3.49	1.00	1.00
OPT Tack	**45.4**	**7.7**	**27.4**	**3.941**	**2.768**	**2.6**	**3.20**	**1.00**	**1.00**
	50.0	7.8	29.2	4.239	2.725	2.7	2.89	1.00	1.00
	60.0	7.9	33.1	4.729	2.364	2.8	2.38	1.00	1.00
	70.0	7.7	36.9	5.027	1.719	2.7	2.01	1.00	1.00
	80.0	7.3	41.1	5.141	.893	2.4	1.72	1.00	1.00
	90.0	6.7	45.9	5.084	0.000	2.0	1.47	1.00	1.00
-------	98.2	----------	^ Genoa	/	Spinnaker v		----------			
	105.0	5.7	53.7	4.902	-1.269	1.6	1.10	1.00	1.00
	120.0	4.4	65.7	4.348	-2.174	.9	.75	1.00	1.00
	135.0	3.2	85.8	3.564	-2.520	.3	.42	1.00	1.00
OPT Gybe	**138.0**	**3.0**	**91.3**	**3.400**	**-2.528**	**.2**	**.36**	**1.00**	**1.00**
	150.0	2.4	116.3	2.813	-2.436	.1	.16	1.00	1.00
	165.0	2.2	149.1	2.362	-2.281	0.0	.09	1.00	1.00
	180.0	2.2	180.0	2.175	-2.175	0.0	.05	1.00	1.00

---------- Handicaps: --------- (seconds/mile) ----------

* Optimum Tack: 1300.6	Gybe:1424.1	60deg: 761.3	~100: 725.4	135:1010.1
Linear-random: 938.3	Circ: 996.7	Olymp:1247.5	W/L:1362.3	ACC:1224.7
BELL Versions:1004.1	:1043.8	:1380.1	:1513.2	GPH: 520.4

------	**6.0 knots True Wind Speed**								
	33.0	10.4	21.8	4.176	3.502	5.0	4.89	1.00	1.00
	36.0	10.6	23.4	4.561	3.690	5.6	4.41	1.00	1.00
	39.0	10.9	24.9	4.905	3.812	6.2	4.03	1.00	1.00
	42.0	11.0	26.3	5.216	3.876	6.6	3.72	1.00	1.00
OPT Tack	**44.1**	**11.1**	**27.3**	**5.411**	**3.889**	**6.9**	**3.54**	**1.00**	**1.00**
	50.0	11.3	29.9	5.899	3.792	7.4	3.10	1.00	1.00
	60.0	11.3	34.1	6.509	3.255	7.6	2.56	1.00	1.00
	70.0	11.0	38.4	6.892	2.357	7.0	2.16	1.00	1.00
	80.0	10.4	43.0	7.039	1.222	5.7	1.84	1.00	1.00
	90.0	9.6	48.2	6.957	0.000	4.4	1.57	1.00	1.00
-------	92.5	----------	^ Genoa	/	Spinnaker v		----------		
	105.0	8.1	56.6	6.776	-1.754	3.6	1.15	1.00	1.00
	120.0	6.4	69.1	6.063	-3.031	1.8	.78	1.00	1.00
	135.0	4.7	88.6	5.097	-3.604	.7	.42	1.00	1.00
OPT Gybe	**141.5**	**4.2**	**100.1**	**4.663**	**-3.649**	**.4**	**.29**	**1.00**	**1.00**
	150.0	3.7	117.6	4.119	-3.568	.2	.16	1.00	1.00
	165.0	3.4	149.5	3.497	-3.378	.1	.09	1.00	1.00
	180.0	3.4	180.0	3.227	-3.227	0.0	.05	1.00	1.00

---------- Handicaps: --------- (seconds/mile) ----------

Optimum Tack: 925.8	Gybe: 986.7	60deg: 553.0	~100: 526.6	135: 706.3
Linear-random: 666.5	Circ: 699.9	Olymp: 879.7	W/L: 956.2	ACC: 862.9
BELL Versions: 703.8	: 727.3	: 946.5	:1024.2	GPH: 520.4

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DESIGN 273 - BENETEAU 60

for BENETEAU

24 Mar 1992

	TRUE WIND SPEED	TRUE WIND ANGLE	APP. WIND SPEED	APP. WIND ANGLE	BOAT SPEED	VELOCITY MADE GOOD	HEEL ANGLE	LEEWAY ANGLE	FLAT COEFF.	REEF COEFF.
------	**8.0 knots True Wind Speed**									
	33.0	13.4	21.6	5.213	4.372	11.4	5.29		1.00	1.00
	36.0	13.7	23.3	5.648	4.570	12.5	4.78		1.00	1.00
	39.0	13.9	24.9	6.035	4.690	13.4	4.39		1.00	1.00
	42.0	14.1	26.4	6.386	4.746	14.2	4.05		1.00	1.00
OPT Tack	**43.4**	**14.2**	**27.0**	**6.540**	**4.752**	**14.5**	**3.91**		**1.00**	**1.00**
	50.0	14.4	30.1	7.197	4.626	15.5	3.35		1.00	1.00
	60.0	14.3	34.6	7.939	3.970	15.6	2.74		1.00	1.00
	70.0	13.9	39.5	8.318	2.845	14.2	2.33		1.00	1.00
	80.0	13.1	44.8	8.459	1.469	11.8	1.99		1.00	1.00
-------	88.7	----------	^ Genoa	/	Spinnaker	v	----------			
	90.0	12.1	50.0	8.480	0.000	11.6	1.61		1.00	1.00
	105.0	10.4	59.2	8.347	-2.160	7.1	1.21		1.00	1.00
	120.0	8.3	71.5	7.659	-3.830	3.1	.80		1.00	1.00
	135.0	6.2	91.4	6.463	-4.570	1.1	.43		1.00	1.00
OPT Gybe	**143.5**	**5.4**	**106.3**	**5.810**	**-4.673**	**.5**	**.26**		**1.00**	**1.00**
	150.0	5.0	119.2	5.324	-4.611	.3	.17		1.00	1.00
	165.0	4.6	150.0	4.584	-4.428	.1	.10		1.00	1.00
	180.0	4.6	179.9	4.246	-4.246	.1	.05		1.00	1.00

---------- Handicaps: --------- (seconds/mile) ----------

Optimum Tack:	757.6	Gybe:	770.4	60deg:	453.4	~100:	429.0	135:	557.0	
Linear-random:	537.8	Circ:	561.2	Olymp:	707.6	W/L:	764.0	ACC:	691.6	
BELL Versions:	566.0	:	582.2	:	750.7	:	805.9	GPH:	520.4	

	TRUE WIND SPEED	TRUE WIND ANGLE	APP. WIND SPEED	APP. WIND ANGLE	BOAT SPEED	VELOCITY MADE GOOD	HEEL ANGLE	LEEWAY ANGLE	FLAT COEFF.	REEF COEFF.
------	**10.0 knots True Wind Speed**									
	33.0	16.2	21.2	5.951	4.991	16.8	5.28		.90	1.00
	36.0	16.4	22.9	6.395	5.174	18.5	4.84		.91	1.00
	39.0	16.6	24.5	6.801	5.285	19.8	4.47		.91	1.00
	42.0	16.8	26.0	7.180	5.336	20.9	4.14		.92	1.00
OPT Tack	**43.1**	**16.8**	**26.6**	**7.318**	**5.340**	**21.3**	**4.02**		**.92**	**1.00**
	50.0	16.9	29.9	8.014	5.151	23.1	3.50		.95	1.00
	60.0	16.5	35.0	8.631	4.315	23.9	3.06		1.00	1.00
	70.0	15.9	40.9	8.971	3.068	21.2	2.60		1.00	1.00
	80.0	15.1	47.1	9.133	1.586	17.7	2.22		1.00	1.00
-------	87.1	----------	^ Genoa	/	Spinnaker	v	----------			
	90.0	13.9	53.0	9.214	0.000	18.1	1.82		1.00	1.00
	105.0	12.2	63.4	9.164	-2.372	10.9	1.31		1.00	1.00
	120.0	10.0	75.5	8.745	-4.373	4.7	.84		1.00	1.00
	135.0	7.8	93.3	7.803	-5.518	1.7	.44		1.00	1.00
OPT Gybe	**143.3**	**6.8**	**107.7**	**7.037**	**-5.645**	**.8**	**.27**		**1.00**	**1.00**
	150.0	6.3	120.7	6.445	-5.582	.5	.18		1.00	1.00
	165.0	5.8	150.5	5.613	-5.422	.2	.11		1.00	1.00
	180.0	5.8	179.9	5.219	-5.219	.1	.06		1.00	1.00

---------- Handicaps: --------- (seconds/mile) ----------

Optimum Tack:	674.2	Gybe:	637.8	60deg:	417.1	~100:	392.1	135:	461.3	
Linear-random:	476.7	Circ:	493.0	Olymp:	611.9	W/L:	656.0	ACC:	597.0	
BELL Versions:	493.1	:	506.0	:	649.9	:	697.7	GPH:	520.4	

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DESIGN 273 - BENETEAU 60
for BENETEAU

24 Mar 1992

	TRUE WIND SPEED	TRUE WIND ANGLE	APP. WIND SPEED	APP. WIND ANGLE	BOAT SPEED	VELOCITY MADE GOOD	HEEL ANGLE	LEEWAY ANGLE	FLAT COEFF.	REEF COEFF.
------ 12.0 knots True Wind Speed ----------										
	33.0	18.7	20.8	6.454	5.413	21.0	5.18		.78	1.00
	36.0	18.9	22.5	6.907	5.588	22.4	4.70		.78	1.00
	39.0	19.1	24.2	7.329	5.696	23.5	4.28		.78	1.00
OPT Tack	**41.6**	**19.2**	**25.6**	**7.665**	**5.730**	**24.1**	**3.96**		**.77**	**1.00**
	42.0	19.2	25.8	7.709	5.729	24.2	3.91		.77	1.00
	50.0	19.1	30.2	8.428	5.417	24.9	3.31		.78	1.00
	60.0	18.6	36.0	8.957	4.479	25.2	2.96		.87	.98
	70.0	17.7	42.1	9.316	3.186	25.4	2.74		.97	.98
	80.0	16.7	48.7	9.565	1.661	23.9	2.45		1.00	1.00
	90.0	15.7	55.9	9.685	0.000	19.0	2.05		1.00	1.00
-------	90.6	----------	^ Genoa	/	Spinnaker v	----------				
	105.0	13.8	66.9	9.764	-2.527	15.0	1.41		1.00	1.00
	120.0	11.7	79.9	9.437	-4.719	6.6	.89		1.00	1.00
	135.0	9.4	96.8	8.741	-6.181	2.3	.45		1.00	1.00
OPT Gybe	**146.2**	**8.0**	**114.5**	**7.925**	**-6.586**	**.9**	**.23**		**1.00**	**1.00**
	150.0	7.7	121.8	7.565	-6.551	.7	.19		1.00	1.00
	165.0	7.1	151.1	6.599	-6.374	.3	.11		1.00	1.00
	180.0	7.1	179.9	6.149	-6.149	.1	.06		1.00	1.00

---------- Handicaps: --------- (seconds/mile) ----------

Optimum Tack: 628.3	Gybe: 546.6	60deg: 401.9	~100: 369.7	135: 411.9
Linear-random: 439.9	Circ: 451.3	Olymp: 556.7	W/L: 587.4	ACC: 539.8
BELL Versions: 448.5	: 458.6	: 580.1	: 617.4	GPH: 520.4

------ 14.0 knots True Wind Speed ----------										
	33.0	21.0	20.5	6.788	5.693	24.0	5.09		.67	1.00
	36.0	21.2	22.4	7.250	5.866	24.6	4.51		.65	1.00
	39.0	21.4	24.3	7.672	5.963	24.8	4.08		.68	.98
OPT Tack	**40.5**	**21.4**	**25.2**	**7.865**	**5.983**	**24.8**	**3.91**		**.69**	**.97**
	42.0	21.5	26.1	8.032	5.969	24.9	3.77		.70	.96
	50.0	21.3	31.0	8.674	5.576	25.1	3.30		.79	.93
	60.0	20.6	37.2	9.177	4.589	25.3	3.00		.91	.90
	70.0	19.6	43.7	9.537	3.262	25.4	2.76		1.00	.90
	80.0	18.4	50.4	9.827	1.707	25.5	2.50		1.00	.95
	90.0	17.2	57.7	10.077	0.000	24.3	2.21		1.00	1.00
-------	96.0	----------	^ Genoa	/	Spinnaker v	----------				
	105.0	15.3	69.7	10.269	-2.658	19.2	1.49		1.00	1.00
	120.0	13.4	83.5	10.044	-5.022	9.1	.95		1.00	1.00
	135.0	11.0	100.6	9.400	-6.647	2.9	.48		1.00	1.00
	150.0	9.1	123.5	8.485	-7.348	.9	.20		1.00	1.00
OPT Gybe	**157.0**	**8.6**	**136.2**	**8.026**	**-7.388**	**.6**	**.16**		**1.00**	**1.00**
	165.0	8.3	151.4	7.591	-7.332	.4	.12		1.00	1.00
	180.0	8.4	179.9	7.064	-7.064	.2	.06		1.00	1.00

---------- Handicaps: --------- (seconds/mile) ----------

Optimum Tack: 601.7	Gybe: 487.3	60deg: 392.3	~100: 352.8	135: 383.0
Linear-random: 413.8	Circ: 422.5	Olymp: 523.5	W/L: 544.5	ACC: 504.3
BELL Versions: 418.3	: 426.5	: 530.7	: 549.5	GPH: 520.4

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DESIGN 273 - BENETEAU 60

for BENETEAU

24 Mar 1992

	TRUE WIND SPEED	TRUE WIND ANGLE	APP. WIND SPEED	APP. WIND ANGLE	BOAT SPEED	VELOCITY MADE GOOD	HEEL ANGLE	LEEWAY ANGLE	FLAT COEFF.	REEF COEFF.
------ 16.0 knots True Wind Speed ------										
	33.0	23.3	20.5	7.002	5.873	24.6	5.03		.64	.95
	36.0	23.5	22.6	7.493	6.062	24.7	4.47		.66	.93
	39.0	23.7	24.6	7.923	6.157	24.9	4.05		.69	.91
OPT Tack	**39.8**	**23.7**	**25.1**	**8.022**	**6.162**	**24.9**	**3.96**		**.70**	**.90**
	42.0	23.7	26.5	8.255	6.134	25.0	3.77		.72	.89
	50.0	23.4	31.7	8.861	5.696	25.2	3.34		.82	.86
	60.0	22.6	38.2	9.355	4.677	25.4	3.04		.94	.84
	70.0	21.5	45.1	9.722	3.325	25.5	2.77		1.00	.85
	80.0	20.2	52.2	10.035	1.743	25.5	2.50		1.00	.89
	90.0	18.8	59.6	10.341	0.000	25.5	2.23		1.00	.95
------- 97.2 ---------- ^ Genoa / Spinnaker v ----------										
	105.0	16.6	72.0	10.689	-2.767	23.5	1.56		1.00	1.00
	120.0	15.0	86.3	10.616	-5.308	11.7	1.00		1.00	1.00
	135.0	12.7	103.6	9.999	-7.070	3.5	.51		1.00	1.00
	150.0	10.7	125.8	9.135	-7.911	1.2	.23		1.00	1.00
OPT Gybe	**164.3**	**9.8**	**150.7**	**8.469**	**-8.153**	**.6**	**.13**		**1.00**	**1.00**
	165.0	9.7	152.1	8.440	-8.152	.6	.13		1.00	1.00
	180.0	9.7	179.9	7.965	-7.965	.3	.07		1.00	1.00

---------- Handicaps: --------- (seconds/mile) ----------

Optimum Tack:	584.2	Gybe:	441.6	60deg:	384.8	~100:	340.5	135: 360.0
Linear-random:	395.9	Circ:	404.1	Olymp:	499.3	W/L:	512.9	ACC: 478.2
BELL Versions:	398.6	:	406.5	:	502.1	:	513.9	GPH: 520.4

------ 20.0 knots True Wind Speed ------										
	33.0	27.8	20.8	7.315	6.135	24.8	5.06		.65	.83
	36.0	28.0	23.0	7.850	6.350	24.9	4.47		.68	.81
OPT Tack	**38.9**	**28.1**	**25.1**	**8.245**	**6.413**	**25.1**	**4.09**		**.71**	**.79**
	39.0	28.1	25.2	8.250	6.412	25.1	4.09		.72	.79
	42.0	28.0	27.2	8.556	6.359	25.2	3.84		.75	.78
	50.0	27.6	32.8	9.131	5.869	25.4	3.44		.86	.75
	60.0	26.6	39.9	9.628	4.814	25.5	3.13		.99	.73
	70.0	25.4	47.3	10.021	3.427	25.6	2.81		1.00	.76
	80.0	24.0	55.0	10.391	1.804	25.6	2.50		1.00	.80
	90.0	22.4	63.1	10.742	0.000	25.6	2.22		1.00	.86
------- 98.6 ---------- ^ Genoa / Spinnaker v ----------										
	105.0	19.8	76.2	11.265	-2.915	25.6	1.56		1.00	.93
	120.0	18.1	90.8	11.611	-5.805	17.6	1.08		1.00	1.00
	135.0	16.1	107.9	11.158	-7.890	5.5	.56		1.00	1.00
	150.0	14.1	129.4	10.248	-8.875	2.0	.29		1.00	1.00
	165.0	13.0	153.9	9.625	-9.297	1.0	.17		1.00	1.00
OPT Gybe	**170.0**	**12.8**	**162.5**	**9.465**	**-9.321**	**.8**	**.14**		**1.00**	**1.00**
	180.0	12.8	179.9	9.243	-9.243	.5	.09		1.00	1.00

---------- Handicaps: --------- (seconds/mile) ----------

Optimum Tack:	561.4	Gybe:	386.2	60deg:	373.9	~100:	324.6	135: 322.6
Linear-random:	370.5	Circ:	379.3	Olymp:	466.7	W/L:	473.8	ACC: 444.2
BELL Versions:	371.7	:	380.4	:	468.1	:	474.6	GPH: 520.4

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DESIGN 273 - BENETEAU 60

for BENETEAU

24 Mar 1992

	TRUE WIND SPEED	TRUE WIND ANGLE	APP. WIND SPEED	APP. WIND ANGLE	BOAT SPEED	VELOCITY MADE GOOD	HEEL ANGLE	LEEWAY ANGLE	FLAT COEFF.	REEF COEFF.
------ 25.0 knots True Wind Speed ----------										
	33.0	33.2	21.0	7.555	6.336	25.0	5.21		.67	.73
	36.0	33.4	23.4	8.096	6.550	25.2	4.60		.70	.71
OPT Tack	**38.5**	**33.4**	**25.3**	**8.425**	**6.596**	**25.3**	**4.28**		**.73**	**.69**
	39.0	33.4	25.7	8.484	6.593	25.3	4.23		.74	.69
	42.0	33.3	28.0	8.780	6.525	25.4	3.99		.78	.68
	50.0	32.8	33.9	9.352	6.012	25.6	3.58		.90	.65
	60.0	31.6	41.5	9.871	4.935	25.7	3.22		1.00	.64
	70.0	30.2	49.5	10.307	3.525	25.7	2.86		1.00	.67
	80.0	28.7	57.7	10.736	1.864	25.7	2.52		1.00	.71
	90.0	26.9	66.3	11.130	0.000	25.8	2.23		1.00	.76
------- 91.4 ---------- ^ Genoa / Spinnaker v ----------										
	105.0	24.1	80.3	11.802	-3.055	25.7	1.53		1.00	.83
	120.0	21.4	95.2	12.570	-6.285	24.9	1.13		1.00	1.00
	135.0	20.4	111.6	12.451	-8.804	9.8	.63		1.00	1.00
	150.0	18.4	132.2	11.586	-10.034	3.5	.37		1.00	1.00
	165.0	17.2	155.4	10.931	-10.559	1.7	.22		1.00	1.00
OPT Gybe	**170.5**	**17.1**	**164.3**	**10.741**	**-10.592**	**1.3**	**.18**		**1.00**	**1.00**
	180.0	17.1	179.9	10.505	-10.505	.9	.12		1.00	1.00

---------- Handicaps: --------- (seconds/mile) ----------

Optimum Tack:	545.8	Gybe:	339.9	60deg:	364.7	~100:	310.9	135: 289.1
Linear-random:	347.5	Circ:	358.2	Olymp:	440.7	W/L:	442.8	ACC: 416.8
BELL Versions:	348.2	:	358.8	:	441.7	:	443.8	GPH: 520.4

------ 30.0 knots True Wind Speed ----------										
	33.0	38.5	21.1	7.640	6.408	25.2	5.48		.68	.65
	36.0	38.7	23.7	8.209	6.641	25.4	4.81		.72	.63
OPT Tack	**38.5**	**38.7**	**25.7**	**8.546**	**6.690**	**25.5**	**4.47**		**.75**	**.62**
	39.0	38.7	26.1	8.604	6.687	25.5	4.42		.76	.62
	42.0	38.6	28.5	8.905	6.617	25.6	4.16		.80	.60
	50.0	37.9	34.8	9.493	6.102	25.7	3.72		.92	.58
	60.0	36.6	42.8	10.040	5.020	25.8	3.30		1.00	.58
	70.0	35.1	51.1	10.524	3.600	25.8	2.91		1.00	.60
	80.0	33.4	59.7	10.994	1.909	25.9	2.55		1.00	.64
------- 85.8 ---------- ^ Genoa / Spinnaker v ----------										
	90.0	31.5	69.0	11.457	0.000	25.8	1.94		1.00	.65
	105.0	28.6	83.4	12.237	-3.167	25.8	1.51		1.00	.76
	120.0	25.6	98.6	13.220	-6.610	26.0	1.10		1.00	.92
	135.0	24.4	114.4	13.672	-9.668	15.3	.69		1.00	1.00
	150.0	22.8	134.1	12.850	-11.128	6.0	.45		1.00	1.00
	165.0	21.5	156.4	12.164	-11.750	2.8	.28		1.00	1.00
OPT Gybe	**171.1**	**21.4**	**165.9**	**11.942**	**-11.798**	**2.1**	**.22**		**1.00**	**1.00**
	180.0	21.4	179.8	11.709	-11.709	1.4	.16		1.00	1.00

---------- Handicaps: --------- (seconds/mile) ----------

Optimum Tack:	538.1	Gybe:	305.1	60deg:	358.6	~100:	300.6	135: 263.3
Linear-random:	330.0	Circ:	343.2	Olymp:	423.3	W/L:	421.6	ACC: 398.0
BELL Versions:	330.3	:	343.5	:	423.7	:	422.0	GPH: 520.4

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