FARR YACHT DESIGN



PERFORMANCE PREDICTION

Design 288 – MAXI 78
By
CIM
Cruising Rig and Keel

Farr Yacht Design, Ltd.
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Design 288 - CIM 78
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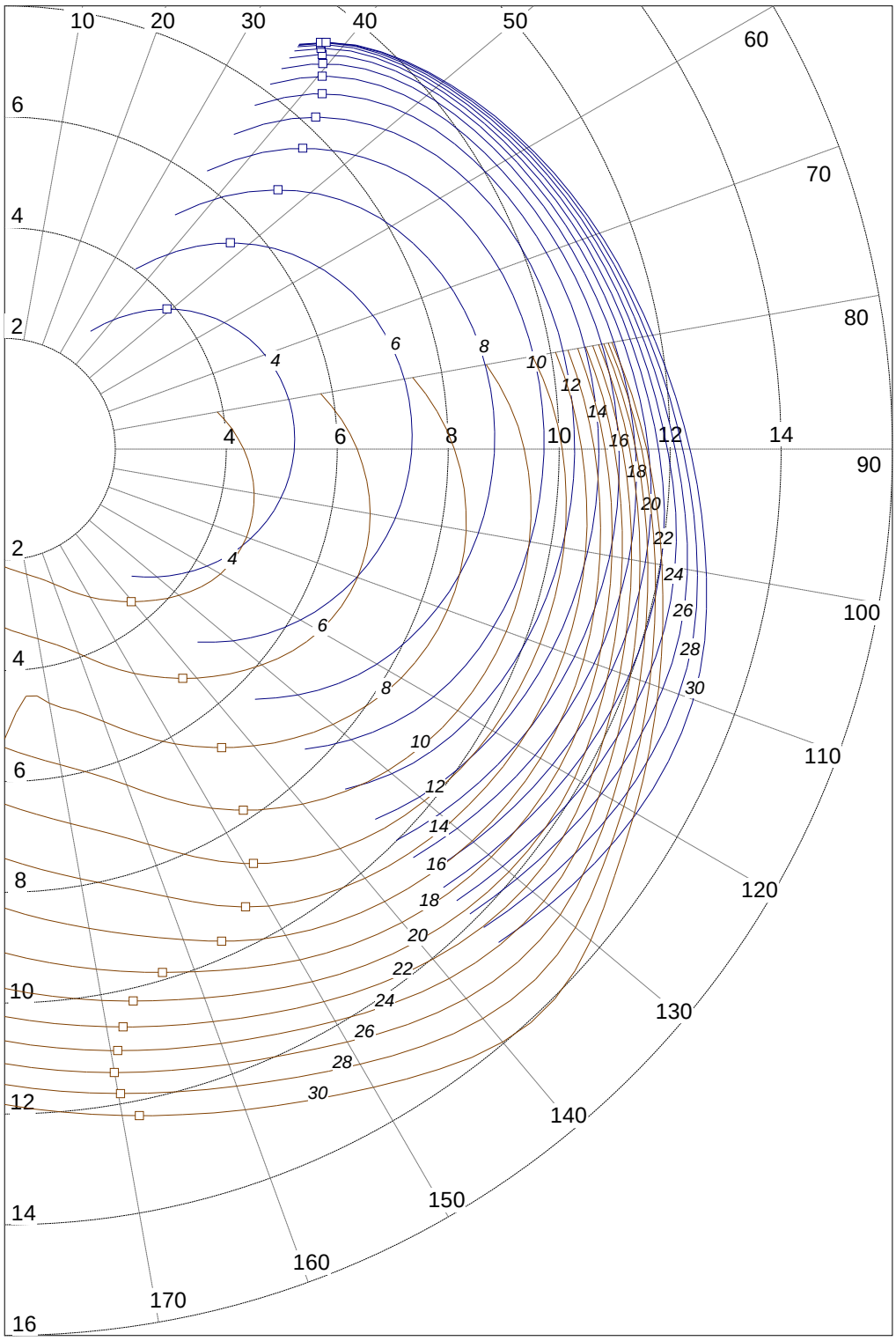

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Best Boatspeeds (kt)

	4	6	8	10	12	14	16	18	20	22	24	26	28	30
36.0	2.64	4.02	5.23	6.21	7.03	7.67	8.14	8.49	8.73	8.89	8.98	9.03	9.03	9.01
39.0	2.95	4.47	5.74	6.77	7.59	8.20	8.64	8.95	9.17	9.31	9.39	9.43	9.44	9.44
42.0	3.24	4.87	6.20	7.26	8.06	8.64	9.04	9.31	9.50	9.61	9.68	9.72	9.75	9.75
45.0	3.52	5.24	6.61	7.68	8.45	8.99	9.35	9.59	9.75	9.85	9.91	9.96	9.98	10.00
50.0	3.93	5.77	7.21	8.26	8.97	9.44	9.74	9.93	10.07	10.16	10.22	10.28	10.31	10.34
55.0	4.29	6.20	7.69	8.72	9.37	9.76	10.02	10.20	10.33	10.42	10.49	10.55	10.60	10.64
60.0	4.58	6.56	8.06	9.07	9.66	10.01	10.25	10.43	10.55	10.65	10.74	10.81	10.87	10.92
65.0	4.81	6.84	8.35	9.32	9.88	10.22	10.45	10.63	10.76	10.88	10.97	11.05	11.12	11.17
70.0	4.99	7.06	8.56	9.49	10.03	10.39	10.63	10.82	10.96	11.08	11.18	11.27	11.34	11.41
75.0	5.12	7.22	8.71	9.61	10.14	10.52	10.80	10.99	11.14	11.27	11.38	11.47	11.56	11.63
80.0	5.20	7.31	8.80	9.68	10.22	10.62	10.93	11.15	11.31	11.45	11.57	11.67	11.77	11.86
85.0	5.24	7.35	8.83	9.72	10.26	10.68	11.02	11.28	11.47	11.62	11.75	11.88	11.99	12.10
90.0	5.22	7.34	8.83	9.72	10.27	10.71	11.07	11.37	11.60	11.79	11.94	12.09	12.22	12.35
95.0	5.16	7.27	8.77	9.69	10.25	10.70	11.09	11.41	11.69	11.93	12.13	12.30	12.45	12.60
100.0	5.06	7.15	8.67	9.62	10.23	10.67	11.07	11.42	11.73	12.01	12.27	12.50	12.68	12.84
105.0	4.91	6.98	8.52	9.64	10.27	10.70	11.02	11.38	11.71	12.02	12.32	12.61	12.86	13.07
110.0	4.72	6.77	8.49	9.62	10.27	10.74	11.11	11.37	11.64	11.97	12.30	12.62	12.93	13.20
115.0	4.59	6.70	8.41	9.55	10.23	10.74	11.15	11.48	11.74	11.97	12.21	12.56	12.90	13.22
120.0	4.49	6.56	8.25	9.43	10.15	10.69	11.15	11.53	11.86	12.14	12.40	12.65	12.88	13.15
125.0	4.33	6.34	8.02	9.26	10.03	10.61	11.10	11.52	11.90	12.26	12.60	12.89	13.15	13.42
130.0	4.10	6.05	7.72	9.02	9.88	10.48	11.00	11.45	11.86	12.27	12.69	13.07	13.43	13.79
135.0	3.85	5.73	7.38	8.72	9.67	10.31	10.85	11.32	11.75	12.19	12.64	13.08	13.53	14.03
140.0	3.59	5.39	6.99	8.36	9.41	10.11	10.66	11.14	11.58	12.01	12.47	12.94	13.41	13.96
145.0	3.33	5.03	6.57	7.94	9.06	9.85	10.42	10.92	11.36	11.78	12.21	12.67	13.15	13.66
150.0	3.08	4.67	6.14	7.48	8.63	9.52	10.13	10.64	11.09	11.51	11.92	12.35	12.82	13.29
155.0	2.82	4.29	5.68	6.97	8.12	9.08	9.79	10.33	10.80	11.24	11.64	12.05	12.50	12.97
160.0	2.58	3.92	5.23	6.45	7.59	8.59	9.42	10.03	10.54	10.99	11.41	11.81	12.23	12.69
165.0	2.41	3.66	4.89	6.06	7.17	8.19	9.08	9.77	10.31	10.78	11.21	11.61	12.01	12.43
170.0	2.29	3.47	4.65	5.78	6.86	7.87	8.78	9.53	10.10	10.58	11.02	11.42	11.81	12.21
175.0	2.20	3.34	4.47	5.57	6.61	7.61	8.52	9.30	9.91	10.40	10.84	11.25	11.63	12.01
180.0	2.12	3.22	5.23	5.38	6.40	7.38	8.28	9.09	9.73	10.23	10.68	11.09	11.46	11.83
Up.Vs(kts)	3.87	5.52	6.80	7.64	8.21	8.60	8.84	9.02	9.14	9.22	9.26	9.29	9.29	9.35
Up.Vs(s/m)	929.7	652.1	529.5	471.0	438.6	418.6	407.3	399.2	393.9	390.6	388.8	387.6	387.4	384.9
Up.Vs(s/L)	11.9	8.3	6.8	6.0	5.6	5.3	5.2	5.1	5.0	5.0	5.0	4.9	4.9	4.9
Up.Bt	49.2	47.6	46.5	44.7	43.1	41.7	40.4	39.5	38.8	38.3	37.9	37.8	37.8	38.3
Up.Vmg(kts)	2.53	3.72	4.68	5.43	5.99	6.42	6.73	6.96	7.12	7.24	7.30	7.33	7.34	7.34
Up.Vmg(s/m)	1423.0	966.4	768.9	662.7	600.8	560.9	534.8	517.3	505.3	497.6	493.0	490.8	490.3	490.5
Up.Heel	2.5	5.4	8.9	12.0	14.7	17.0	18.8	20.5	21.9	23.0	24.0	24.9	25.6	25.0
Up.Reef	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.99	0.99	0.90
Up.Flat	1.00	1.00	0.98	0.91	0.83	0.76	0.68	0.62	0.56	0.51	0.46	0.44	0.40	0.45
Up.Twist	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Up.Va	7.16	10.54	13.58	16.28	18.73	21.03	23.20	25.29	27.32	29.31	31.24	33.15	35.02	36.96
Up.Ba	25.0	24.7	25.0	25.0	25.0	25.1	25.0	25.1	25.2	25.3	25.6	25.9	26.2	27.1
Up.Leewy	3.48	3.67	3.92	4.14	4.36	4.57	4.77	4.99	5.22	5.39	5.62	5.86	6.05	6.25
Dn.Vs(kts)	3.58	5.24	6.66	7.81	8.72	9.34	9.70	9.86	10.23	10.64	11.04	11.42	11.82	12.27
Dn.Vs(s/m)	1006.1	687.0	540.7	461.0	412.7	385.6	371.0	365.1	352.1	338.3	326.0	315.2	304.7	293.4
Dn.Vs(s/L)	12.8	8.8	6.9	5.9	5.3	4.9	4.7	4.7	4.5	4.3	4.2	4.0	3.9	3.7
Dn.Bt	140.3	142.1	144.0	146.5	149.0	152.2	156.2	163.2	166.9	168.4	169.3	170.0	169.8	168.6
Dn.Vmg(kts)	2.75	4.14	5.39	6.51	7.48	8.26	8.88	9.44	9.96	10.42	10.85	11.25	11.63	12.03
Dn.Vmg(s/m)	1308.4	870.5	668.4	552.7	481.4	435.8	405.4	381.3	361.5	345.4	331.7	320.0	309.5	299.3
Dn.Heel	0.5	1.0	1.6	2.0	2.2	2.1	1.8	1.4	1.3	1.4	1.5	1.7	2.1	2.8
Dn.Reef	1.00	1.00	1.00	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	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	1.00	1.00	1.00
Dn.Va	2.61	3.72	4.71	5.54	6.37	7.20	8.12	9.02	10.30	11.77	13.30	14.88	16.50	18.13
Dn.Ba	78.9	82.2	87.7	95.5	104.2	115.1	127.4	144.8	153.9	157.9	160.5	162.4	162.5	160.9
Dn.Leewy	0.69	0.63	0.58	0.51	0.45	0.37	0.30	0.21	0.18	0.18	0.18	0.19	0.21	0.26

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Times for 1 nm (secs)

	4	6	8	10	12	14	16	18	20	22	24	26	28	30
36.0	1366.0	895.0	688.7	579.6	512.3	469.3	442.1	424.1	412.3	405.0	400.8	398.7	398.5	399.5
39.0	1221.5	806.2	627.4	532.1	474.3	439.2	416.5	402.1	392.7	386.8	383.5	381.9	381.2	381.3
42.0	1110.4	739.4	581.1	496.0	446.9	416.8	398.4	386.5	379.1	374.5	371.9	370.3	369.4	369.1
45.0	1022.9	687.6	544.7	468.6	426.1	400.6	384.9	375.4	369.4	365.6	363.2	361.6	360.6	360.0
50.0	915.0	624.3	499.2	436.0	401.2	381.3	369.7	362.4	357.6	354.4	352.1	350.3	349.0	348.1
55.0	840.1	580.5	468.1	412.8	384.3	368.7	359.3	353.0	348.6	345.6	343.1	341.1	339.5	338.3
60.0	786.7	548.8	446.6	397.1	372.7	359.6	351.2	345.3	341.1	337.9	335.2	333.0	331.2	329.8
65.0	748.3	525.9	431.4	386.3	364.5	352.4	344.4	338.6	334.4	331.0	328.2	325.8	323.8	322.2
70.0	721.2	509.7	420.6	379.2	358.8	346.5	338.5	332.7	328.4	324.9	322.0	319.5	317.3	315.5
75.0	703.0	498.7	413.5	374.5	354.9	342.1	333.4	327.5	323.1	319.5	316.4	313.7	311.5	309.5
80.0	692.0	492.2	409.3	371.8	352.3	339.0	329.4	322.8	318.3	314.5	311.3	308.4	305.8	303.5
85.0	687.7	489.6	407.5	370.5	350.8	337.1	326.7	319.1	313.9	309.9	306.3	303.1	300.1	297.4
90.0	689.4	490.6	407.9	370.4	350.5	336.2	325.2	316.7	310.2	305.4	301.4	297.8	294.5	291.5
95.0	697.3	495.1	410.4	371.7	351.1	336.4	324.7	315.4	307.9	301.7	296.7	292.7	289.1	285.7
100.0	711.7	503.4	415.1	374.2	351.8	337.5	325.1	315.2	307.0	299.8	293.4	288.0	283.9	280.4
105.0	733.2	515.9	422.5	373.5	350.5	336.3	326.7	316.2	307.4	299.5	292.1	285.5	279.9	275.5
110.0	762.9	532.1	423.9	374.2	350.7	335.2	324.1	316.5	309.2	300.8	292.7	285.2	278.4	272.6
115.0	783.5	537.4	428.1	376.9	352.0	335.3	322.8	313.5	306.7	300.8	294.9	286.7	279.1	272.3
120.0	801.0	548.8	436.1	381.6	354.6	336.6	322.8	312.1	303.6	296.5	290.4	284.7	279.4	273.8
125.0	831.9	567.8	448.9	388.9	358.8	339.4	324.4	312.5	302.5	293.6	285.8	279.4	273.7	268.2
130.0	877.3	594.6	466.1	399.1	364.5	343.5	327.4	314.4	303.5	293.3	283.8	275.5	268.1	261.1
135.0	934.7	628.0	487.9	412.8	372.2	349.1	331.9	317.9	306.3	295.4	284.9	275.2	266.1	256.6
140.0	1002.3	668.0	515.1	430.8	382.8	356.3	337.9	323.0	310.8	299.7	288.7	278.2	268.4	257.8
145.0	1080.1	715.3	547.7	453.2	397.3	365.6	345.5	329.8	316.8	305.6	294.9	284.1	273.9	263.6
150.0	1169.7	771.3	586.5	481.1	417.1	378.3	355.2	338.4	324.5	312.8	302.1	291.5	280.9	270.8
155.0	1275.8	838.7	633.5	516.8	443.5	396.4	367.6	348.5	333.2	320.3	309.2	298.7	288.0	277.6
160.0	1396.0	917.6	688.7	558.5	474.6	419.0	382.2	358.8	341.7	327.5	315.4	304.7	294.3	283.8
165.0	1495.3	984.5	736.5	594.3	502.2	439.8	396.6	368.5	349.3	334.1	321.2	310.2	299.9	289.5
170.0	1572.3	1036.1	773.9	622.8	525.0	457.4	410.1	377.8	356.4	340.2	326.7	315.2	304.9	294.8
175.0	1637.0	1079.1	805.2	646.8	544.4	473.0	422.6	387.0	363.2	346.1	332.0	320.0	309.5	299.8
180.0	1695.7	1118.0	688.8	668.6	562.1	487.6	434.6	396.2	370.1	351.8	337.2	324.7	314.0	304.4
Up	1423.0	966.4	768.9	662.7	600.8	560.9	534.8	517.3	505.3	497.6	493.0	490.8	490.3	490.5
Dn	1308.4	870.5	668.4	552.7	481.4	435.8	405.4	381.3	361.5	345.4	331.7	320.0	309.5	299.3

Equivalent ILC Average (using IMS formula): 576.31

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Leeward- Course Times (s) for range of true wind speeds

	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0
Cruise2020MST	1308	871	668	553	481	436	405	381	361	345	332	320	310	299

LR- Course Times (s) for range of true wind speeds

	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0
Cruise2020MST	940	647	517	450	412	388	371	359	349	341	334	327	322	316

WL- Course Times (s) for range of true wind speeds

	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0
Cruise2020MST	1366	918	719	608	541	498	470	449	433	421	412	405	400	395

Windward- Course Times (s) for range of true wind speeds

	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0
Cruise2020MST	1423	966	769	663	601	561	535	517	505	498	493	491	490	490

CR- Course Times (s) for range of true wind speeds

	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0
Cruise2020MST	1002	683	542	468	426	399	381	368	358	350	344	338	333	329

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Best Performance

	TWS	TWA	V	VMG	Heel	Reef	Flat	Twist	AWS	AWA	Lee	Sail
	4.0	36.0	2.635	2.132	1.6	1.000	0.896	1.000	6.32	21.8	5.01	Up
	4.0	39.0	2.947	2.290	1.9	1.000	0.941	1.000	6.56	22.6	4.59	Up
	4.0	42.0	3.242	2.409	2.1	1.000	0.982	1.000	6.77	23.3	4.27	Up
	4.0	45.0	3.519	2.489	2.3	1.000	1.000	1.000	6.95	24.0	3.93	Up
OptUp >	***4.0***	***49.2***	***3.872***	***2.530***	***2.5***	***1.000***	***1.000***	***1.000***	***7.16***	***25.0***	***3.48***	***Up***
	4.0	50.0	3.934	2.529	2.5	1.000	1.000	1.000	7.19	25.2	3.40	Up
	4.0	55.0	4.285	2.458	2.6	1.000	1.000	1.000	7.35	26.4	3.02	Up
	4.0	60.0	4.576	2.288	2.7	1.000	1.000	1.000	7.43	27.8	2.73	Up
	4.0	65.0	4.811	2.033	2.7	1.000	1.000	1.000	7.44	29.1	2.48	Up
	4.0	70.0	4.992	1.707	2.7	1.000	1.000	1.000	7.39	30.6	2.27	Up
	4.0	75.0	5.121	1.325	2.6	1.000	1.000	1.000	7.27	32.1	2.09	Up
	4.0	80.0	5.202	0.903	2.5	1.000	1.000	1.000	7.09	33.7	1.92	Up
	4.0	85.0	5.235	0.456	2.3	1.000	1.000	1.000	6.86	35.5	1.77	Up
	4.0	90.0	5.222	-0.000	2.1	1.000	1.000	1.000	6.58	37.4	1.63	Up
	4.0	95.0	5.163	-0.450	1.9	1.000	1.000	1.000	6.25	39.6	1.49	Up
	4.0	100.0	5.059	-0.878	1.7	1.000	1.000	1.000	5.88	42.1	1.36	Up
	4.0	105.0	4.910	-1.271	1.4	1.000	1.000	1.000	5.47	44.9	1.24	Up
	4.0	110.0	4.719	-1.614	1.2	1.000	1.000	1.000	5.04	48.3	1.11	Up
	4.0	115.0	4.595	-1.942	1.6	1.000	1.000	1.000	4.64	51.3	1.29	Dn
	4.0	120.0	4.494	-2.247	1.4	1.000	1.000	1.000	4.27	54.2	1.19	Dn
	4.0	125.0	4.327	-2.482	1.2	1.000	1.000	1.000	3.86	58.2	1.08	Dn
	4.0	130.0	4.104	-2.638	1.0	1.000	1.000	1.000	3.43	63.4	0.96	Dn
	4.0	135.0	3.851	-2.723	0.7	1.000	1.000	1.000	3.01	70.1	0.83	Dn
	4.0	140.0	3.592	-2.751	0.5	1.000	1.000	1.000	2.62	78.4	0.70	Dn
OptDn >	***4.0***	***140.3***	***3.578***	***2.751***	***0.5***	***1.000***	***1.000***	***1.000***	***2.61***	***78.9***	***0.69***	***Dn***
	4.0	145.0	3.333	-2.730	0.4	1.000	1.000	1.000	2.29	88.6	0.56	Dn
	4.0	150.0	3.078	-2.665	0.2	1.000	1.000	1.000	2.04	100.9	0.43	Dn
	4.0	155.0	2.822	-2.557	0.1	1.000	1.000	1.000	1.87	115.4	0.30	Dn
	4.0	160.0	2.579	-2.423	0.1	1.000	1.000	1.000	1.81	130.8	0.21	Dn
	4.0	165.0	2.408	-2.326	0.0	1.000	1.000	1.000	1.79	144.6	0.16	Dn
	4.0	170.0	2.290	-2.255	0.0	1.000	1.000	1.000	1.79	157.2	0.11	Dn
	4.0	175.0	2.199	-2.191	0.0	1.000	1.000	1.000	1.82	169.0	0.05	Dn
	4.0	180.0	2.123	-2.123	0.0	1.000	1.000	1.000	1.88	180.0	-0.00	Dn

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Best Performance (cont)

	TWS	TWA	V	VMG	Heel	Reef	Flat	Twist	AWS	AWA	Lee	Sail
	6.0	36.0	4.022	3.254	3.7	1.000	0.881	1.000	9.55	21.6	4.80	Up
	6.0	39.0	4.466	3.470	4.2	1.000	0.923	1.000	9.87	22.4	4.42	Up
	6.0	42.0	4.869	3.618	4.7	1.000	0.962	1.000	10.15	23.2	4.14	Up
	6.0	45.0	5.236	3.702	5.2	1.000	1.000	1.000	10.38	24.0	3.94	Up
OptUp >	***6.0***	***47.6***	***5.520***	***3.725***	***5.4***	***1.000***	***1.000***	***1.000***	***10.54***	***24.7***	***3.67***	***Up***
	6.0	50.0	5.767	3.707	5.5	1.000	1.000	1.000	10.66	25.4	3.45	Up
	6.0	55.0	6.202	3.557	5.8	1.000	1.000	1.000	10.81	26.9	3.09	Up
	6.0	60.0	6.559	3.280	5.9	1.000	1.000	1.000	10.87	28.4	2.80	Up
	6.0	65.0	6.845	2.893	5.8	1.000	1.000	1.000	10.83	30.0	2.54	Up
	6.0	70.0	7.063	2.416	5.7	1.000	1.000	1.000	10.70	31.6	2.33	Up
	6.0	75.0	7.218	1.868	5.5	1.000	1.000	1.000	10.50	33.3	2.13	Up
	6.0	80.0	7.313	1.270	5.1	1.000	1.000	1.000	10.22	35.2	1.96	Up
	6.0	85.0	7.353	0.641	4.8	1.000	1.000	1.000	9.87	37.1	1.79	Up
	6.0	90.0	7.338	-0.000	4.3	1.000	1.000	1.000	9.47	39.2	1.64	Up
	6.0	95.0	7.271	-0.634	3.9	1.000	1.000	1.000	9.01	41.5	1.50	Up
	6.0	100.0	7.151	-1.242	3.4	1.000	1.000	1.000	8.49	44.0	1.37	Up
	6.0	105.0	6.979	-1.806	2.9	1.000	1.000	1.000	7.93	46.9	1.24	Up
	6.0	110.0	6.766	-2.314	3.9	1.000	1.000	1.000	7.34	50.0	1.41	Dn
	6.0	115.0	6.699	-2.831	3.6	1.000	1.000	1.000	6.84	52.5	1.31	Dn
	6.0	120.0	6.560	-3.280	3.2	1.000	1.000	1.000	6.29	55.5	1.21	Dn
	6.0	125.0	6.340	-3.637	2.7	1.000	1.000	1.000	5.70	59.4	1.09	Dn
	6.0	130.0	6.054	-3.892	2.1	1.000	1.000	1.000	5.09	64.4	0.96	Dn
	6.0	135.0	5.733	-4.054	1.6	1.000	1.000	1.000	4.50	70.6	0.83	Dn
	6.0	140.0	5.389	-4.128	1.2	1.000	1.000	1.000	3.94	78.4	0.69	Dn
OptDn >	***6.0***	***142.1***	***5.240***	***4.135***	***1.0***	***1.000***	***1.000***	***1.000***	***3.72***	***82.2***	***0.63***	***Dn***
	6.0	145.0	5.033	-4.123	0.8	1.000	1.000	1.000	3.44	88.0	0.55	Dn
	6.0	150.0	4.668	-4.042	0.5	1.000	1.000	1.000	3.05	100.0	0.42	Dn
	6.0	155.0	4.292	-3.890	0.3	1.000	1.000	1.000	2.78	114.3	0.30	Dn
	6.0	160.0	3.923	-3.687	0.2	1.000	1.000	1.000	2.67	129.9	0.20	Dn
	6.0	165.0	3.657	-3.532	0.1	1.000	1.000	1.000	2.64	144.0	0.15	Dn
	6.0	170.0	3.474	-3.422	0.1	1.000	1.000	1.000	2.65	156.8	0.10	Dn
	6.0	175.0	3.336	-3.323	0.0	1.000	1.000	1.000	2.69	168.8	0.05	Dn
	6.0	180.0	3.220	-3.220	0.0	1.000	1.000	1.000	2.78	180.0	-0.00	Dn

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Best Performance (cont)

	TWS	TWA	V	VMG	Heel	Reef	Flat	Twist	AWS	AWA	Lee	Sail
	8.0	36.0	5.228	4.229	6.3	1.000	0.859	1.000	12.60	21.8	4.81	Up
	8.0	39.0	5.738	4.459	7.1	1.000	0.897	1.000	12.96	22.7	4.47	Up
	8.0	42.0	6.195	4.604	7.9	1.000	0.931	1.000	13.25	23.6	4.22	Up
	8.0	45.0	6.609	4.673	8.6	1.000	0.965	1.000	13.48	24.5	4.01	Up
OptUp >	***8.0***	***46.5***	***6.799***	***4.682***	***8.9***	***1.000***	***0.981***	***1.000***	***13.58***	***25.0***	***3.92***	***Up***
	8.0	50.0	7.211	4.635	9.4	1.000	1.000	1.000	13.75	26.1	3.67	Up
	8.0	55.0	7.690	4.411	9.7	1.000	1.000	1.000	13.87	27.8	3.28	Up
	8.0	60.0	8.060	4.030	9.7	1.000	1.000	1.000	13.86	29.5	2.97	Up
	8.0	65.0	8.345	3.527	9.5	1.000	1.000	1.000	13.74	31.4	2.70	Up
	8.0	70.0	8.559	2.927	9.1	1.000	1.000	1.000	13.52	33.3	2.46	Up
	8.0	75.0	8.706	2.253	8.6	1.000	1.000	1.000	13.21	35.3	2.25	Up
	8.0	80.0	8.795	1.527	8.1	1.000	1.000	1.000	12.83	37.4	2.06	Up
	8.0	85.0	8.834	0.770	7.4	1.000	1.000	1.000	12.38	39.7	1.87	Up
	8.0	90.0	8.826	-0.000	6.7	1.000	1.000	1.000	11.88	42.0	1.71	Up
	8.0	95.0	8.773	-0.765	6.0	1.000	1.000	1.000	11.31	44.5	1.55	Up
	8.0	100.0	8.672	-1.506	5.3	1.000	1.000	1.000	10.70	47.1	1.40	Up
	8.0	105.0	8.521	-2.205	4.6	1.000	1.000	1.000	10.05	50.1	1.25	Up
	8.0	110.0	8.493	-2.905	6.9	1.000	1.000	1.000	9.43	52.4	1.51	Dn
	8.0	115.0	8.410	-3.554	6.2	1.000	1.000	1.000	8.79	55.1	1.38	Dn
	8.0	120.0	8.255	-4.127	5.4	1.000	1.000	1.000	8.10	58.3	1.25	Dn
	8.0	125.0	8.019	-4.600	4.5	1.000	1.000	1.000	7.38	62.3	1.11	Dn
	8.0	130.0	7.724	-4.965	3.6	1.000	1.000	1.000	6.64	67.1	0.97	Dn
	8.0	135.0	7.378	-5.217	2.8	1.000	1.000	1.000	5.91	73.1	0.83	Dn
	8.0	140.0	6.989	-5.354	2.1	1.000	1.000	1.000	5.21	80.5	0.69	Dn
OptDn >	***8.0***	***144.0***	***6.658***	***5.386***	***1.6***	***1.000***	***1.000***	***1.000***	***4.71***	***87.7***	***0.58***	***Dn***
	8.0	145.0	6.573	-5.384	1.5	1.000	1.000	1.000	4.59	89.8	0.55	Dn
	8.0	150.0	6.138	-5.315	1.0	1.000	1.000	1.000	4.08	101.2	0.42	Dn
	8.0	155.0	5.682	-5.150	0.6	1.000	1.000	1.000	3.73	114.9	0.29	Dn
	8.0	160.0	5.227	-4.912	0.3	1.000	1.000	1.000	3.57	129.9	0.20	Dn
	8.0	165.0	4.888	-4.721	0.2	1.000	1.000	1.000	3.51	143.9	0.15	Dn
	8.0	170.0	4.652	-4.581	0.1	1.000	1.000	1.000	3.51	156.7	0.10	Dn
	8.0	175.0	4.471	-4.454	0.1	1.000	1.000	1.000	3.57	168.7	0.05	Dn
	8.0	180.0	5.227	-5.227	0.0	1.000	1.000	1.000	2.77	180.0	-0.00	Dn

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Best Performance (cont)

	TWS	TWA	V	VMG	Heel	Reef	Flat	Twist	AWS	AWA	Lee	Sail
	10.0	36.0	6.211	5.025	9.2	1.000	0.824	1.000	15.43	22.1	4.93	Up
	10.0	39.0	6.765	5.258	10.3	1.000	0.859	1.000	15.80	23.1	4.60	Up
	10.0	42.0	7.258	5.394	11.2	1.000	0.887	1.000	16.09	24.1	4.33	Up
OptUp >	***10.0***	***44.7***	***7.643***	***5.432***	***12.0***	***1.000***	***0.912***	***1.000***	***16.28***	***25.0***	***4.14***	***Up***
	10.0	45.0	7.682	5.432	12.1	1.000	0.915	1.000	16.29	25.1	4.12	Up
	10.0	50.0	8.257	5.308	13.3	1.000	0.962	1.000	16.47	26.9	3.87	Up
	10.0	55.0	8.720	5.002	14.0	1.000	1.000	1.000	16.50	28.8	3.63	Up
	10.0	60.0	9.067	4.533	13.8	1.000	1.000	1.000	16.39	30.9	3.28	Up
	10.0	65.0	9.319	3.939	13.3	1.000	1.000	1.000	16.16	33.1	2.98	Up
	10.0	70.0	9.495	3.247	12.6	1.000	1.000	1.000	15.84	35.4	2.71	Up
	10.0	75.0	9.612	2.488	11.8	1.000	1.000	1.000	15.43	37.8	2.47	Up
	10.0	80.0	9.684	1.682	10.9	1.000	1.000	1.000	14.96	40.3	2.24	Up
	10.0	85.0	9.718	0.847	10.0	1.000	1.000	1.000	14.44	42.8	2.03	Up
	10.0	90.0	9.718	-0.000	9.0	1.000	1.000	1.000	13.86	45.5	1.84	Up
	10.0	95.0	9.686	-0.844	8.0	1.000	1.000	1.000	13.23	48.2	1.65	Up
	10.0	100.0	9.621	-1.671	7.0	1.000	1.000	1.000	12.56	51.1	1.48	Up
	10.0	105.0	9.638	-2.494	11.2	1.000	1.000	1.000	11.81	53.3	1.85	Dn
	10.0	110.0	9.620	-3.290	10.2	1.000	1.000	1.000	11.13	56.2	1.69	Dn
	10.0	115.0	9.553	-4.037	9.1	1.000	1.000	1.000	10.42	59.2	1.52	Dn
	10.0	120.0	9.435	-4.717	7.8	1.000	1.000	1.000	9.66	62.7	1.34	Dn
	10.0	125.0	9.256	-5.309	6.5	1.000	1.000	1.000	8.87	66.6	1.17	Dn
	10.0	130.0	9.020	-5.798	5.3	1.000	1.000	1.000	8.06	71.2	1.01	Dn
	10.0	135.0	8.721	-6.166	4.1	1.000	1.000	1.000	7.24	76.8	0.85	Dn
	10.0	140.0	8.357	-6.402	3.1	1.000	1.000	1.000	6.46	83.8	0.70	Dn
	10.0	145.0	7.944	-6.507	2.2	1.000	1.000	1.000	5.74	92.5	0.56	Dn
OptDn >	***10.0***	***146.5***	***7.810***	***6.513***	***2.0***	***1.000***	***1.000***	***1.000***	***5.54***	***95.5***	***0.51***	***Dn***
	10.0	150.0	7.482	-6.480	1.5	1.000	1.000	1.000	5.14	103.3	0.42	Dn
	10.0	155.0	6.966	-6.314	0.9	1.000	1.000	1.000	4.72	116.4	0.29	Dn
	10.0	160.0	6.446	-6.057	0.5	1.000	1.000	1.000	4.52	130.8	0.20	Dn
	10.0	165.0	6.057	-5.851	0.0	1.000	1.000	1.000	4.44	144.3	0.15	Dn
	10.0	170.0	5.781	-5.693	0.0	1.000	1.000	1.000	4.42	156.9	0.10	Dn
	10.0	175.0	5.566	-5.545	0.0	1.000	1.000	1.000	4.48	168.8	0.05	Dn
	10.0	180.0	5.384	-5.384	0.0	1.000	1.000	1.000	4.62	180.0	-0.00	Dn

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Best Performance (cont)

	TWS	TWA	V	VMG	Heel	Reef	Flat	Twist	AWS	AWA	Lee	Sail
	12.0	36.0	7.027	5.685	12.3	1.000	0.780	1.000	18.10	22.4	5.05	Up
	12.0	39.0	7.590	5.899	13.4	1.000	0.804	1.000	18.44	23.5	4.69	Up
	12.0	42.0	8.055	5.986	14.4	1.000	0.826	1.000	18.67	24.6	4.44	Up
OptUp >	***12.0***	***43.1***	***8.208***	***5.992***	***14.7***	***1.000***	***0.834***	***1.000***	***18.73***	***25.0***	***4.36***	***Up***
	12.0	45.0	8.449	5.975	15.3	1.000	0.849	1.000	18.81	25.8	4.24	Up
	12.0	50.0	8.973	5.768	16.4	1.000	0.890	1.000	18.87	27.9	4.00	Up
	12.0	55.0	9.368	5.373	17.3	1.000	0.938	1.000	18.76	30.0	3.84	Up
	12.0	60.0	9.659	4.830	18.0	1.000	0.992	1.000	18.52	32.3	3.73	Up
	12.0	65.0	9.876	4.174	17.3	1.000	1.000	1.000	18.20	34.8	3.40	Up
	12.0	70.0	10.033	3.431	16.2	1.000	1.000	1.000	17.81	37.4	3.08	Up
	12.0	75.0	10.145	2.626	15.0	1.000	1.000	1.000	17.35	40.2	2.78	Up
	12.0	80.0	10.220	1.775	13.8	1.000	1.000	1.000	16.83	43.0	2.51	Up
	12.0	85.0	10.261	0.894	12.5	1.000	1.000	1.000	16.25	45.9	2.25	Up
	12.0	90.0	10.271	-0.000	11.2	1.000	1.000	1.000	15.62	48.9	2.02	Up
	12.0	95.0	10.253	-0.894	9.9	1.000	1.000	1.000	14.95	52.0	1.80	Up
	12.0	100.0	10.234	-1.777	16.6	1.000	1.000	1.000	13.95	54.3	2.40	Dn
	12.0	105.0	10.270	-2.658	15.3	1.000	1.000	1.000	13.28	57.4	2.18	Dn
	12.0	110.0	10.267	-3.511	13.7	1.000	1.000	1.000	12.57	60.6	1.94	Dn
	12.0	115.0	10.226	-4.322	11.9	1.000	1.000	1.000	11.82	64.2	1.71	Dn
	12.0	120.0	10.151	-5.076	10.2	1.000	1.000	1.000	11.04	67.9	1.49	Dn
	12.0	125.0	10.034	-5.755	8.6	1.000	1.000	1.000	10.22	72.0	1.28	Dn
	12.0	130.0	9.877	-6.349	7.0	1.000	1.000	1.000	9.38	76.7	1.08	Dn
	12.0	135.0	9.672	-6.839	5.5	1.000	1.000	1.000	8.53	82.0	0.90	Dn
	12.0	140.0	9.406	-7.205	4.2	1.000	1.000	1.000	7.70	88.4	0.72	Dn
	12.0	145.0	9.062	-7.423	3.0	1.000	1.000	1.000	6.92	96.4	0.57	Dn
OptDn >	***12.0***	***149.0***	***8.724***	***7.479***	***2.2***	***1.000***	***1.000***	***1.000***	***6.37***	***104.2***	***0.45***	***Dn***
	12.0	150.0	8.632	-7.475	2.0	1.000	1.000	1.000	6.25	106.4	0.42	Dn
	12.0	155.0	8.117	-7.357	1.2	1.000	1.000	1.000	5.77	118.5	0.30	Dn
	12.0	160.0	7.586	-7.128	0.7	1.000	1.000	1.000	5.52	132.0	0.21	Dn
	12.0	165.0	7.168	-6.924	0.0	1.000	1.000	1.000	5.40	144.9	0.15	Dn
	12.0	170.0	6.858	-6.754	0.0	1.000	1.000	1.000	5.38	157.2	0.10	Dn
	12.0	175.0	6.613	-6.588	0.0	1.000	1.000	1.000	5.44	168.9	0.05	Dn
	12.0	180.0	6.404	-6.404	0.0	1.000	1.000	1.000	5.60	180.0	-0.00	Dn

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Best Performance (cont)

	TWS	TWA	V	VMG	Heel	Reef	Flat	Twist	AWS	AWA	Lee	Sail
	14.0	36.0	7.671	6.206	14.9	1.000	0.719	1.000	20.59	22.7	5.11	Up
	14.0	39.0	8.198	6.371	16.1	1.000	0.738	1.000	20.87	23.9	4.78	Up
OptUp >	***14.0***	***41.7***	***8.599***	***6.418***	***17.0***	***1.000***	***0.757***	***1.000***	***21.03***	***25.1***	***4.57***	***Up***
	14.0	42.0	8.636	6.418	17.2	1.000	0.759	1.000	21.04	25.2	4.56	Up
	14.0	45.0	8.987	6.355	18.0	1.000	0.779	1.000	21.10	26.5	4.37	Up
	14.0	50.0	9.441	6.069	19.1	1.000	0.818	1.000	21.04	28.8	4.17	Up
	14.0	55.0	9.764	5.600	19.8	1.000	0.863	1.000	20.81	31.2	4.03	Up
	14.0	60.0	10.011	5.005	20.4	1.000	0.914	1.000	20.46	33.7	3.92	Up
	14.0	65.0	10.215	4.317	20.8	1.000	0.972	1.000	20.03	36.3	3.82	Up
	14.0	70.0	10.389	3.553	20.1	1.000	1.000	1.000	19.57	39.2	3.54	Up
	14.0	75.0	10.522	2.723	18.5	1.000	1.000	1.000	19.09	42.2	3.16	Up
	14.0	80.0	10.618	1.844	16.9	1.000	1.000	1.000	18.56	45.3	2.82	Up
	14.0	85.0	10.679	0.931	15.3	1.000	1.000	1.000	17.96	48.5	2.51	Up
	14.0	90.0	10.707	-0.000	13.6	1.000	1.000	1.000	17.31	51.8	2.23	Up
	14.0	95.0	10.702	-0.933	12.0	1.000	1.000	1.000	16.61	55.2	1.98	Up
	14.0	100.0	10.668	-1.852	10.5	1.000	1.000	1.000	15.86	58.7	1.74	Up
	14.0	105.0	10.704	-2.771	19.5	1.000	1.000	1.000	14.58	60.9	2.54	Dn
	14.0	110.0	10.739	-3.673	17.3	1.000	1.000	1.000	13.90	64.6	2.23	Dn
	14.0	115.0	10.736	-4.537	15.1	1.000	1.000	1.000	13.16	68.5	1.93	Dn
	14.0	120.0	10.694	-5.347	12.9	1.000	1.000	1.000	12.38	72.6	1.66	Dn
	14.0	125.0	10.607	-6.084	10.8	1.000	1.000	1.000	11.56	77.1	1.41	Dn
	14.0	130.0	10.480	-6.736	8.8	1.000	1.000	1.000	10.70	82.0	1.18	Dn
	14.0	135.0	10.313	-7.293	6.9	1.000	1.000	1.000	9.84	87.6	0.97	Dn
	14.0	140.0	10.105	-7.741	5.3	1.000	1.000	1.000	8.98	94.0	0.77	Dn
	14.0	145.0	9.847	-8.066	3.8	1.000	1.000	1.000	8.17	101.4	0.60	Dn
	14.0	150.0	9.517	-8.242	2.6	1.000	1.000	1.000	7.46	110.4	0.44	Dn
OptDn >	***14.0***	***152.2***	***9.335***	***8.261***	***2.1***	***1.000***	***1.000***	***1.000***	***7.20***	***115.1***	***0.37***	***Dn***
	14.0	155.0	9.083	-8.232	1.6	1.000	1.000	1.000	6.93	121.4	0.30	Dn
	14.0	160.0	8.593	-8.074	1.0	1.000	1.000	1.000	6.61	133.6	0.22	Dn
	14.0	165.0	8.186	-7.907	0.0	1.000	1.000	1.000	6.45	145.8	0.16	Dn
	14.0	170.0	7.870	-7.750	0.0	1.000	1.000	1.000	6.40	157.7	0.10	Dn
	14.0	175.0	7.611	-7.582	0.0	1.000	1.000	1.000	6.45	169.1	0.05	Dn
	14.0	180.0	7.383	-7.383	0.0	1.000	1.000	1.000	6.62	180.0	-0.00	Dn

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Best Performance (cont)

	TWS	TWA	V	VMG	Heel	Reef	Flat	Twist	AWS	AWA	Lee	Sail
	16.0	36.0	8.143	6.588	17.3	1.000	0.660	1.000	22.92	23.1	5.22	Up
	16.0	39.0	8.644	6.717	18.4	1.000	0.674	1.000	23.14	24.4	4.89	Up
OptUp >	***16.0***	***40.4***	***8.839***	***6.732***	***18.8***	***1.000***	***0.680***	***1.000***	***23.20***	***25.0***	***4.77***	***Up***
	16.0	42.0	9.037	6.716	19.3	1.000	0.690	1.000	23.24	25.8	4.67	Up
	16.0	45.0	9.353	6.613	20.1	1.000	0.709	1.000	23.24	27.2	4.51	Up
	16.0	50.0	9.738	6.259	21.2	1.000	0.747	1.000	23.06	29.7	4.35	Up
	16.0	55.0	10.021	5.748	21.9	1.000	0.790	1.000	22.73	32.4	4.22	Up
	16.0	60.0	10.251	5.126	22.3	0.999	0.839	1.000	22.30	35.1	4.10	Up
	16.0	65.0	10.453	4.418	22.6	1.000	0.891	1.000	21.81	37.9	3.98	Up
	16.0	70.0	10.634	3.637	22.7	1.000	0.950	1.000	21.25	40.7	3.85	Up
	16.0	75.0	10.798	2.795	22.3	1.000	1.000	1.000	20.68	43.7	3.64	Up
	16.0	80.0	10.928	1.898	20.3	1.000	1.000	1.000	20.16	47.2	3.20	Up
	16.0	85.0	11.018	0.960	18.3	1.000	1.000	1.000	19.57	50.6	2.82	Up
	16.0	90.0	11.070	-0.000	16.3	1.000	1.000	1.000	18.93	54.2	2.48	Up
	16.0	95.0	11.087	-0.966	14.3	1.000	1.000	1.000	18.23	57.9	2.17	Up
	16.0	100.0	11.072	-1.923	12.4	1.000	1.000	1.000	17.48	61.7	1.89	Up
	16.0	105.0	11.020	-2.852	10.6	1.000	1.000	1.000	16.68	65.6	1.64	Up
	16.0	110.0	11.107	-3.799	21.4	1.000	1.000	1.000	15.09	68.1	2.56	Dn
	16.0	115.0	11.154	-4.714	18.6	1.000	1.000	1.000	14.43	72.3	2.19	Dn
	16.0	120.0	11.153	-5.576	15.9	1.000	1.000	1.000	13.69	76.7	1.86	Dn
	16.0	125.0	11.098	-6.366	13.2	1.000	1.000	1.000	12.90	81.4	1.56	Dn
	16.0	130.0	10.996	-7.068	10.8	1.000	1.000	1.000	12.06	86.6	1.30	Dn
	16.0	135.0	10.848	-7.671	8.5	1.000	1.000	1.000	11.20	92.4	1.06	Dn
	16.0	140.0	10.655	-8.162	6.4	1.000	1.000	1.000	10.35	98.9	0.84	Dn
	16.0	145.0	10.419	-8.535	4.6	1.000	1.000	1.000	9.53	106.4	0.64	Dn
	16.0	150.0	10.135	-8.777	3.1	1.000	1.000	1.000	8.81	115.0	0.46	Dn
	16.0	155.0	9.794	-8.876	2.0	1.000	1.000	1.000	8.24	124.9	0.33	Dn
OptDn >	***16.0***	***156.2***	***9.704***	***8.880***	***1.8***	***1.000***	***1.000***	***1.000***	***8.12***	***127.4***	***0.30***	***Dn***
	16.0	160.0	9.420	-8.851	1.3	1.000	1.000	1.000	7.84	135.7	0.24	Dn
	16.0	165.0	9.077	-8.768	0.0	1.000	1.000	1.000	7.60	147.0	0.17	Dn
	16.0	170.0	8.779	-8.645	0.0	1.000	1.000	1.000	7.51	158.3	0.11	Dn
	16.0	175.0	8.518	-8.486	0.0	1.000	1.000	1.000	7.55	169.4	0.05	Dn
	16.0	180.0	8.283	-8.283	0.0	1.000	1.000	1.000	7.72	180.0	-0.00	Dn

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Best Performance (cont)

	TWS	TWA	V	VMG	Heel	Reef	Flat	Twist	AWS	AWA	Lee	Sail
	18.0	36.0	8.488	6.867	19.3	1.000	0.603	1.000	25.12	23.4	5.34	Up
	18.0	39.0	8.953	6.957	20.3	0.999	0.614	1.000	25.28	24.9	5.02	Up
OptUp >	***18.0***	***39.5***	***9.019***	***6.959***	***20.5***	***1.000***	***0.617***	***1.000***	***25.29***	***25.1***	***4.99***	***Up***
	18.0	42.0	9.314	6.921	21.2	1.000	0.630	1.000	25.32	26.3	4.82	Up
	18.0	45.0	9.590	6.781	21.9	1.000	0.647	1.000	25.25	27.9	4.68	Up
	18.0	50.0	9.933	6.385	22.8	1.000	0.681	1.000	24.98	30.6	4.51	Up
	18.0	55.0	10.199	5.850	23.4	1.000	0.721	1.000	24.58	33.4	4.38	Up
	18.0	60.0	10.426	5.213	23.8	1.000	0.765	1.000	24.10	36.3	4.25	Up
	18.0	65.0	10.631	4.493	24.1	1.000	0.816	1.000	23.54	39.2	4.12	Up
	18.0	70.0	10.819	3.700	24.2	1.000	0.870	1.000	22.94	42.3	3.97	Up
	18.0	75.0	10.992	2.845	24.1	1.000	0.930	1.000	22.29	45.4	3.81	Up
	18.0	80.0	11.151	1.936	23.9	1.000	0.999	1.000	21.60	48.6	3.66	Up
	18.0	85.0	11.280	0.983	21.5	1.000	0.999	1.000	21.06	52.4	3.17	Up
	18.0	90.0	11.366	-0.000	19.1	1.000	1.000	1.000	20.45	56.2	2.76	Up
	18.0	95.0	11.415	-0.995	16.8	1.000	1.000	1.000	19.79	60.2	2.38	Up
	18.0	100.0	11.421	-1.983	14.5	1.000	1.000	1.000	19.06	64.2	2.06	Up
	18.0	105.0	11.384	-2.946	12.4	1.000	1.000	1.000	18.27	68.4	1.77	Up
	18.0	110.0	11.375	-3.890	24.8	0.988	1.000	1.000	16.22	71.2	2.89	Dn
	18.0	115.0	11.483	-4.853	22.5	1.000	1.000	1.000	15.57	75.6	2.50	Dn
	18.0	120.0	11.535	-5.767	19.2	1.000	1.000	1.000	14.94	80.2	2.09	Dn
	18.0	125.0	11.521	-6.608	16.0	1.000	1.000	1.000	14.23	85.2	1.73	Dn
	18.0	130.0	11.450	-7.360	12.9	1.000	1.000	1.000	13.44	90.5	1.42	Dn
	18.0	135.0	11.323	-8.006	10.2	1.000	1.000	1.000	12.61	96.4	1.15	Dn
	18.0	140.0	11.144	-8.537	7.7	1.000	1.000	1.000	11.77	103.0	0.90	Dn
	18.0	145.0	10.916	-8.942	5.5	1.000	1.000	1.000	10.97	110.4	0.68	Dn
	18.0	150.0	10.638	-9.213	3.7	1.000	1.000	1.000	10.25	118.9	0.50	Dn
	18.0	155.0	10.331	-9.363	2.5	1.000	1.000	1.000	9.67	128.2	0.36	Dn
	18.0	160.0	10.033	-9.428	1.7	1.000	1.000	1.000	9.23	138.2	0.26	Dn
OptDn >	***18.0***	***163.2***	***9.862***	***9.442***	***1.4***	***1.000***	***1.000***	***1.000***	***9.02***	***144.8***	***0.21***	***Dn***
	18.0	165.0	9.770	-9.437	1.2	1.000	1.000	1.000	8.93	148.6	0.19	Dn
	18.0	170.0	9.528	-9.383	0.0	1.000	1.000	1.000	8.77	159.1	0.12	Dn
	18.0	175.0	9.303	-9.267	0.0	1.000	1.000	1.000	8.77	169.7	0.06	Dn
	18.0	180.0	9.086	-9.086	0.0	1.000	1.000	1.000	8.91	180.0	-0.00	Dn

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Best Performance (cont)

	TWS	TWA	V	VMG	Heel	Reef	Flat	Twist	AWS	AWA	Lee	Sail
	20.0	36.0	8.731	7.063	20.9	1.000	0.549	1.000	27.22	23.8	5.49	Up
OptUp >	***20.0***	***38.8***	***9.140***	***7.124***	***21.9***	***1.000***	***0.561***	***1.000***	***27.32***	***25.2***	***5.22***	***Up***
	20.0	39.0	9.167	7.124	22.0	1.000	0.561	1.000	27.33	25.3	5.20	Up
	20.0	42.0	9.495	7.056	22.8	1.000	0.575	1.000	27.30	26.9	5.00	Up
	20.0	45.0	9.746	6.891	23.4	1.000	0.591	1.000	27.18	28.5	4.86	Up
	20.0	50.0	10.067	6.471	24.2	1.000	0.623	1.000	26.84	31.4	4.70	Up
	20.0	55.0	10.326	5.922	24.8	1.000	0.660	1.000	26.39	34.3	4.56	Up
	20.0	60.0	10.553	5.277	25.0	0.993	0.711	1.000	25.86	37.4	4.40	Up
	20.0	65.0	10.764	4.549	24.9	0.981	0.774	1.000	25.29	40.5	4.23	Up
	20.0	70.0	10.961	3.749	25.2	0.995	0.802	1.000	24.62	43.7	4.06	Up
	20.0	75.0	11.143	2.884	25.0	0.984	0.882	1.000	23.94	47.0	3.91	Up
	20.0	80.0	11.311	1.964	25.0	0.991	0.936	1.000	23.18	50.4	3.75	Up
	20.0	85.0	11.470	1.000	24.9	1.000	0.997	1.000	22.39	53.8	3.60	Up
	20.0	90.0	11.604	-0.000	22.2	1.000	1.000	1.000	21.86	57.9	3.08	Up
	20.0	95.0	11.693	-1.019	19.4	1.000	1.000	1.000	21.26	62.1	2.63	Up
	20.0	100.0	11.728	-2.037	16.8	1.000	1.000	1.000	20.59	66.4	2.24	Up
	20.0	105.0	11.710	-3.031	14.3	1.000	1.000	1.000	19.83	70.8	1.92	Up
	20.0	110.0	11.644	-3.983	12.0	1.000	1.000	1.000	19.00	75.4	1.64	Up
	20.0	115.0	11.738	-4.961	25.5	0.986	1.000	1.000	16.68	78.6	2.77	Dn
	20.0	120.0	11.859	-5.930	22.7	0.999	1.000	1.000	16.08	83.4	2.34	Dn
	20.0	125.0	11.901	-6.826	19.0	1.000	1.000	1.000	15.50	88.4	1.91	Dn
	20.0	130.0	11.863	-7.626	15.3	1.000	1.000	1.000	14.81	93.8	1.55	Dn
	20.0	135.0	11.754	-8.311	12.0	1.000	1.000	1.000	14.04	99.8	1.24	Dn
	20.0	140.0	11.585	-8.874	9.0	1.000	1.000	1.000	13.23	106.4	0.97	Dn
	20.0	145.0	11.363	-9.308	6.5	1.000	1.000	1.000	12.46	113.8	0.73	Dn
	20.0	150.0	11.093	-9.607	4.5	1.000	1.000	1.000	11.75	122.0	0.54	Dn
	20.0	155.0	10.803	-9.791	3.1	1.000	1.000	1.000	11.17	130.9	0.40	Dn
	20.0	160.0	10.536	-9.901	2.2	1.000	1.000	1.000	10.72	140.4	0.30	Dn
	20.0	165.0	10.306	-9.955	1.5	1.000	1.000	1.000	10.39	150.1	0.21	Dn
OptDn >	***20.0***	***166.9***	***10.226***	***9.959***	***1.3***	***1.000***	***1.000***	***1.000***	***10.30***	***153.9***	***0.18***	***Dn***
	20.0	170.0	10.100	-9.947	0.0	1.000	1.000	1.000	10.21	160.1	0.14	Dn
	20.0	175.0	9.911	-9.873	0.0	1.000	1.000	1.000	10.16	170.1	0.06	Dn
	20.0	180.0	9.728	-9.728	0.0	1.000	1.000	1.000	10.27	180.0	-0.00	Dn

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Best Performance (cont)

	TWS	TWA	V	VMG	Heel	Reef	Flat	Twist	AWS	AWA	Lee	Sail
	22.0	36.0	8.888	7.191	22.1	1.000	0.498	1.000	29.25	24.2	5.61	Up
OptUp >	***22.0***	***38.3***	***9.216***	***7.235***	***23.0***	***1.000***	***0.507***	***1.000***	***29.31***	***25.3***	***5.39***	***Up***
	22.0	39.0	9.306	7.232	23.2	1.000	0.510	1.000	29.31	25.7	5.33	Up
	22.0	42.0	9.612	7.143	24.1	1.000	0.525	1.000	29.23	27.4	5.18	Up
	22.0	45.0	9.848	6.963	24.7	1.000	0.541	1.000	29.07	29.1	5.06	Up
	22.0	50.0	10.157	6.529	25.3	0.987	0.586	1.000	28.68	32.1	4.88	Up
	22.0	55.0	10.417	5.975	25.2	0.958	0.660	1.000	28.22	35.3	4.70	Up
	22.0	60.0	10.654	5.327	25.1	0.938	0.731	1.000	27.69	38.6	4.52	Up
	22.0	65.0	10.875	4.596	25.0	0.929	0.791	1.000	27.08	41.9	4.33	Up
	22.0	70.0	11.080	3.789	25.0	0.929	0.846	1.000	26.40	45.2	4.16	Up
	22.0	75.0	11.269	2.917	25.1	0.932	0.902	1.000	25.66	48.6	4.00	Up
	22.0	80.0	11.446	1.988	25.1	0.939	0.959	1.000	24.86	52.1	3.83	Up
	22.0	85.0	11.617	1.012	25.1	0.957	1.000	1.000	24.03	55.7	3.65	Up
	22.0	90.0	11.788	-0.000	25.2	0.997	1.000	1.000	23.13	59.4	3.44	Up
	22.0	95.0	11.934	-1.040	22.3	1.000	1.000	1.000	22.62	63.7	2.90	Up
	22.0	100.0	12.010	-2.086	19.2	1.000	1.000	1.000	22.03	68.2	2.45	Up
	22.0	105.0	12.020	-3.111	16.4	1.000	1.000	1.000	21.34	72.8	2.08	Up
	22.0	110.0	11.969	-4.094	13.8	1.000	1.000	1.000	20.56	77.5	1.77	Up
	22.0	115.0	11.966	-5.057	26.0	0.940	1.000	1.000	18.12	81.5	2.82	Dn
	22.0	120.0	12.140	-6.070	26.5	0.999	1.000	1.000	17.09	86.2	2.64	Dn
	22.0	125.0	12.262	-7.033	22.2	0.999	1.000	1.000	16.69	91.2	2.10	Dn
	22.0	130.0	12.274	-7.889	17.9	0.999	1.000	1.000	16.14	96.6	1.68	Dn
	22.0	135.0	12.186	-8.617	14.0	1.000	1.000	1.000	15.46	102.6	1.33	Dn
	22.0	140.0	12.013	-9.202	10.5	1.000	1.000	1.000	14.72	109.2	1.03	Dn
	22.0	145.0	11.779	-9.649	7.5	1.000	1.000	1.000	13.98	116.5	0.78	Dn
	22.0	150.0	11.510	-9.968	5.3	1.000	1.000	1.000	13.30	124.6	0.59	Dn
	22.0	155.0	11.239	-10.186	3.8	1.000	1.000	1.000	12.72	133.2	0.44	Dn
	22.0	160.0	10.993	-10.330	2.7	1.000	1.000	1.000	12.26	142.2	0.34	Dn
	22.0	165.0	10.776	-10.409	1.9	1.000	1.000	1.000	11.92	151.5	0.24	Dn
OptDn >	***22.0***	***168.4***	***10.642***	***10.424***	***1.4***	***1.000***	***1.000***	***1.000***	***11.77***	***157.9***	***0.18***	***Dn***
	22.0	170.0	10.581	-10.420	0.0	1.000	1.000	1.000	11.72	161.0	0.15	Dn
	22.0	175.0	10.403	-10.363	0.0	1.000	1.000	1.000	11.67	170.5	0.07	Dn
	22.0	180.0	10.234	-10.234	0.0	1.000	1.000	1.000	11.77	180.0	-0.00	Dn

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Best Performance (cont)

	TWS	TWA	V	VMG	Heel	Reef	Flat	Twist	AWS	AWA	Lee	Sail
	24.0	36.0	8.983	7.267	23.3	1.000	0.455	1.000	31.22	24.5	5.81	Up
OptUp >	***24.0***	***37.9***	***9.260***	***7.303***	***24.0***	***1.000***	***0.463***	***1.000***	***31.24***	***25.6***	***5.62***	***Up***
	24.0	39.0	9.387	7.295	24.3	1.000	0.467	1.000	31.23	26.1	5.54	Up
	24.0	42.0	9.681	7.194	25.0	0.996	0.484	1.000	31.13	27.9	5.35	Up
	24.0	45.0	9.911	7.008	25.1	0.970	0.525	1.000	30.96	29.8	5.20	Up
	24.0	50.0	10.224	6.572	25.3	0.936	0.600	1.000	30.56	32.9	5.03	Up
	24.0	55.0	10.493	6.018	25.2	0.908	0.676	1.000	30.08	36.2	4.84	Up
	24.0	60.0	10.739	5.370	25.1	0.891	0.747	1.000	29.51	39.6	4.64	Up
	24.0	65.0	10.970	4.636	25.1	0.884	0.805	1.000	28.87	43.0	4.44	Up
	24.0	70.0	11.182	3.824	25.1	0.884	0.861	1.000	28.16	46.5	4.25	Up
	24.0	75.0	11.379	2.945	25.2	0.887	0.919	1.000	27.38	50.0	4.08	Up
	24.0	80.0	11.565	2.008	25.2	0.893	0.979	1.000	26.55	53.7	3.91	Up
	24.0	85.0	11.752	1.024	25.2	0.918	1.000	1.000	25.68	57.4	3.70	Up
	24.0	90.0	11.943	-0.000	25.5	0.959	1.000	1.000	24.74	61.1	3.48	Up
	24.0	95.0	12.134	-1.058	25.3	1.000	1.000	1.000	23.84	65.1	3.22	Up
	24.0	100.0	12.271	-2.131	21.9	1.000	1.000	1.000	23.38	69.7	2.67	Up
	24.0	105.0	12.324	-3.190	18.7	1.000	1.000	1.000	22.79	74.4	2.24	Up
	24.0	110.0	12.298	-4.206	15.8	1.000	1.000	1.000	22.08	79.3	1.90	Up
	24.0	115.0	12.207	-5.159	13.2	1.000	1.000	1.000	21.28	84.4	1.62	Up
	24.0	120.0	12.396	-6.198	27.0	0.957	1.000	1.000	18.52	88.8	2.67	Dn
	24.0	125.0	12.597	-7.225	25.6	0.999	1.000	1.000	17.77	93.8	2.32	Dn
	24.0	130.0	12.686	-8.154	20.8	0.999	1.000	1.000	17.41	99.1	1.81	Dn
	24.0	135.0	12.637	-8.936	16.2	0.999	1.000	1.000	16.86	104.9	1.41	Dn
	24.0	140.0	12.468	-9.551	12.1	1.000	1.000	1.000	16.20	111.4	1.09	Dn
	24.0	145.0	12.208	-10.000	8.8	1.000	1.000	1.000	15.51	118.7	0.83	Dn
	24.0	150.0	11.917	-10.320	6.3	1.000	1.000	1.000	14.86	126.6	0.64	Dn
	24.0	155.0	11.644	-10.553	4.6	1.000	1.000	1.000	14.30	135.0	0.49	Dn
	24.0	160.0	11.413	-10.725	3.3	1.000	1.000	1.000	13.83	143.7	0.37	Dn
	24.0	165.0	11.207	-10.825	2.3	1.000	1.000	1.000	13.49	152.6	0.27	Dn
OptDn >	***24.0***	***169.3***	***11.044***	***10.853***	***1.5***	***1.000***	***1.000***	***1.000***	***13.30***	***160.5***	***0.18***	***Dn***
	24.0	170.0	11.020	-10.853	1.4	1.000	1.000	1.000	13.29	161.7	0.17	Dn
	24.0	175.0	10.845	-10.803	0.0	1.000	1.000	1.000	13.23	170.9	0.08	Dn
	24.0	180.0	10.678	-10.678	0.0	1.000	1.000	1.000	13.32	180.0	-0.00	Dn

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Best Performance (cont)

	TWS	TWA	V	VMG	Heel	Reef	Flat	Twist	AWS	AWA	Lee	Sail
	26.0	36.0	9.029	7.305	24.3	1.000	0.418	1.000	33.13	24.9	6.04	Up
OptUp >	***26.0***	***37.8***	***9.289***	***7.335***	***24.9***	***0.989***	***0.435***	***1.000***	***33.15***	***25.9***	***5.86***	***Up***
	26.0	39.0	9.428	7.327	24.9	0.977	0.450	1.000	33.14	26.6	5.75	Up
	26.0	42.0	9.722	7.225	25.1	0.949	0.491	1.000	33.04	28.5	5.53	Up
	26.0	45.0	9.955	7.039	25.2	0.924	0.535	1.000	32.86	30.4	5.37	Up
	26.0	50.0	10.276	6.605	25.2	0.890	0.611	1.000	32.45	33.7	5.15	Up
	26.0	55.0	10.554	6.054	25.3	0.865	0.690	1.000	31.93	37.1	4.98	Up
	26.0	60.0	10.811	5.406	25.2	0.849	0.758	1.000	31.34	40.5	4.76	Up
	26.0	65.0	11.050	4.670	25.2	0.845	0.816	1.000	30.66	44.0	4.55	Up
	26.0	70.0	11.269	3.854	25.2	0.844	0.873	1.000	29.91	47.6	4.36	Up
	26.0	75.0	11.474	2.970	25.2	0.846	0.932	1.000	29.11	51.3	4.17	Up
	26.0	80.0	11.673	2.027	25.3	0.851	0.996	1.000	28.25	55.0	4.00	Up
	26.0	85.0	11.877	1.035	25.4	0.883	1.000	1.000	27.34	58.8	3.76	Up
	26.0	90.0	12.088	-0.000	25.7	0.924	1.000	1.000	26.36	62.7	3.54	Up
	26.0	95.0	12.299	-1.072	26.1	0.971	1.000	1.000	25.33	66.7	3.32	Up
	26.0	100.0	12.498	-2.170	24.7	1.000	1.000	1.000	24.59	71.1	2.93	Up
	26.0	105.0	12.610	-3.264	21.2	1.000	1.000	1.000	24.14	75.9	2.42	Up
	26.0	110.0	12.625	-4.318	17.9	1.000	1.000	1.000	23.54	80.9	2.03	Up
	26.0	115.0	12.557	-5.307	15.0	1.000	1.000	1.000	22.81	86.1	1.72	Up
	26.0	120.0	12.646	-6.323	27.5	0.918	1.000	1.000	19.98	91.0	2.70	Dn
	26.0	125.0	12.885	-7.391	28.2	0.987	1.000	1.000	18.88	96.2	2.49	Dn
	26.0	130.0	13.069	-8.401	23.7	0.999	1.000	1.000	18.59	101.3	1.94	Dn
	26.0	135.0	13.083	-9.251	18.6	0.999	1.000	1.000	18.22	106.9	1.49	Dn
	26.0	140.0	12.939	-9.912	13.9	1.000	1.000	1.000	17.66	113.3	1.14	Dn
	26.0	145.0	12.672	-10.380	10.1	1.000	1.000	1.000	17.03	120.4	0.88	Dn
	26.0	150.0	12.351	-10.696	7.3	1.000	1.000	1.000	16.42	128.3	0.68	Dn
	26.0	155.0	12.054	-10.925	5.4	1.000	1.000	1.000	15.88	136.5	0.53	Dn
	26.0	160.0	11.814	-11.102	4.0	1.000	1.000	1.000	15.42	144.9	0.41	Dn
	26.0	165.0	11.607	-11.212	2.8	1.000	1.000	1.000	15.09	153.5	0.30	Dn
	26.0	170.0	11.423	-11.249	0.0	1.000	1.000	1.000	14.88	162.3	0.19	Dn
OptDn >	***26.0***	***170.0***	***11.423***	***11.250***	***1.7***	***1.000***	***1.000***	***1.000***	***14.88***	***162.4***	***0.19***	***Dn***
	26.0	175.0	11.251	-11.208	0.0	1.000	1.000	1.000	14.82	171.2	0.09	Dn
	26.0	180.0	11.086	-11.086	0.0	1.000	1.000	1.000	14.91	180.0	-0.00	Dn

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Best Performance (cont)

	TWS	TWA	V	VMG	Heel	Reef	Flat	Twist	AWS	AWA	Lee	Sail
	28.0	36.0	9.034	7.308	24.6	0.966	0.415	1.000	35.04	25.3	6.30	Up
OptUp >	***28.0***	***37.8***	***9.292***	***7.342***	***25.6***	***0.989***	***0.398***	***1.000***	***35.02***	***26.2***	***6.05***	***Up***
	28.0	39.0	9.445	7.340	25.1	0.936	0.455	1.000	35.05	27.1	5.96	Up
	28.0	42.0	9.746	7.243	25.2	0.908	0.498	1.000	34.94	29.0	5.73	Up
	28.0	45.0	9.984	7.060	25.3	0.884	0.544	1.000	34.75	31.0	5.55	Up
	28.0	50.0	10.314	6.630	25.3	0.850	0.623	1.000	34.32	34.4	5.31	Up
	28.0	55.0	10.604	6.082	25.3	0.826	0.700	1.000	33.78	37.9	5.11	Up
	28.0	60.0	10.871	5.435	25.3	0.813	0.767	1.000	33.15	41.4	4.88	Up
	28.0	65.0	11.117	4.698	25.4	0.809	0.825	1.000	32.44	45.0	4.67	Up
	28.0	70.0	11.344	3.880	25.4	0.808	0.884	1.000	31.67	48.7	4.46	Up
	28.0	75.0	11.559	2.992	25.4	0.810	0.945	1.000	30.83	52.4	4.27	Up
	28.0	80.0	11.772	2.044	25.4	0.818	1.000	1.000	29.95	56.3	4.07	Up
	28.0	85.0	11.994	1.045	25.7	0.851	1.000	1.000	28.99	60.1	3.82	Up
	28.0	90.0	12.224	-0.000	26.0	0.892	1.000	1.000	27.97	64.1	3.59	Up
	28.0	95.0	12.454	-1.085	26.4	0.937	1.000	1.000	26.92	68.2	3.36	Up
	28.0	100.0	12.679	-2.202	26.7	0.988	1.000	1.000	25.84	72.4	3.14	Up
	28.0	105.0	12.861	-3.329	23.8	1.000	1.000	1.000	25.38	77.2	2.63	Up
	28.0	110.0	12.930	-4.422	20.2	1.000	1.000	1.000	24.92	82.3	2.17	Up
	28.0	115.0	12.899	-5.451	17.0	1.000	1.000	1.000	24.29	87.5	1.83	Up
	28.0	120.0	12.884	-6.442	27.9	0.882	1.000	1.000	21.46	93.0	2.72	Dn
	28.0	125.0	13.152	-7.544	28.7	0.951	1.000	1.000	20.33	98.2	2.50	Dn
	28.0	130.0	13.428	-8.631	26.8	0.999	1.000	1.000	19.69	103.4	2.09	Dn
	28.0	135.0	13.529	-9.567	21.0	0.999	1.000	1.000	19.51	108.7	1.56	Dn
	28.0	140.0	13.412	-10.274	15.8	0.999	1.000	1.000	19.09	114.9	1.19	Dn
	28.0	145.0	13.146	-10.768	11.6	1.000	1.000	1.000	18.53	121.9	0.92	Dn
	28.0	150.0	12.816	-11.099	8.5	1.000	1.000	1.000	17.96	129.5	0.72	Dn
	28.0	155.0	12.499	-11.328	6.4	1.000	1.000	1.000	17.44	137.6	0.57	Dn
	28.0	160.0	12.233	-11.495	4.7	1.000	1.000	1.000	17.01	145.9	0.45	Dn
	28.0	165.0	12.005	-11.596	3.3	1.000	1.000	1.000	16.69	154.3	0.32	Dn
OptDn >	***28.0***	***169.8***	***11.816***	***11.630***	***2.1***	***1.000***	***1.000***	***1.000***	***16.50***	***162.5***	***0.21***	***Dn***
	28.0	170.0	11.809	-11.629	0.0	1.000	1.000	1.000	16.50	162.9	0.21	Dn
	28.0	175.0	11.630	-11.586	0.0	1.000	1.000	1.000	16.45	171.5	0.10	Dn
	28.0	180.0	11.463	-11.463	0.0	1.000	1.000	1.000	16.54	180.0	-0.00	Dn

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Best Performance (cont)

	TWS	TWA	V	VMG	Heel	Reef	Flat	Twist	AWS	AWA	Lee	Sail
	30.0	36.0	9.011	7.290	24.8	0.929	0.418	1.000	36.93	25.7	6.57	Up
OptUp >	**30.0**	**38.3**	**9.353**	**7.340**	**25.0**	**0.905**	**0.449**	**1.000**	**36.96**	**27.1**	**6.25**	**Up**
	30.0	39.0	9.442	7.338	25.1	0.898	0.459	1.000	36.95	27.6	6.18	Up
	30.0	42.0	9.754	7.249	25.3	0.871	0.504	1.000	36.83	29.5	5.94	Up
	30.0	45.0	10.000	7.071	25.4	0.847	0.551	1.000	36.63	31.5	5.74	Up
	30.0	50.0	10.341	6.647	25.4	0.814	0.632	1.000	36.18	35.0	5.48	Up
	30.0	55.0	10.642	6.104	25.3	0.791	0.709	1.000	35.62	38.6	5.23	Up
	30.0	60.0	10.917	5.458	24.8	0.743	0.856	1.000	35.04	42.3	5.03	Up
	30.0	65.0	11.174	4.722	25.5	0.776	0.833	1.000	34.22	45.8	4.79	Up
	30.0	70.0	11.409	3.902	25.5	0.775	0.893	1.000	33.42	49.6	4.57	Up
	30.0	75.0	11.633	3.011	25.5	0.777	0.955	1.000	32.56	53.4	4.37	Up
	30.0	80.0	11.862	2.060	25.6	0.788	1.000	1.000	31.65	57.4	4.14	Up
	30.0	85.0	12.104	1.055	25.9	0.822	1.000	1.000	30.65	61.3	3.89	Up
	30.0	90.0	12.352	-0.000	26.3	0.861	1.000	1.000	29.59	65.3	3.65	Up
	30.0	95.0	12.599	-1.098	26.7	0.905	1.000	1.000	28.51	69.5	3.41	Up
	30.0	100.0	12.839	-2.229	27.0	0.955	1.000	1.000	27.41	73.8	3.17	Up
	30.0	105.0	13.066	-3.382	26.4	0.999	1.000	1.000	26.49	78.5	2.86	Up
	30.0	110.0	13.205	-4.516	22.6	1.000	1.000	1.000	26.19	83.5	2.33	Up
	30.0	115.0	13.223	-5.588	19.1	1.000	1.000	1.000	25.70	88.8	1.94	Up
	30.0	120.0	13.146	-6.573	16.0	1.000	1.000	1.000	25.05	94.2	1.64	Up
	30.0	125.0	13.421	-7.698	29.3	0.919	1.000	1.000	21.77	100.0	2.52	Dn
	30.0	130.0	13.788	-8.863	30.0	1.000	1.000	1.000	20.66	105.4	2.24	Dn
	30.0	135.0	14.028	-9.919	23.7	0.999	1.000	1.000	20.71	110.3	1.62	Dn
	30.0	140.0	13.964	-10.697	18.0	1.000	1.000	1.000	20.44	116.2	1.22	Dn
	30.0	145.0	13.658	-11.188	13.2	1.000	1.000	1.000	19.99	123.1	0.94	Dn
	30.0	150.0	13.294	-11.513	9.8	1.000	1.000	1.000	19.48	130.6	0.75	Dn
	30.0	155.0	12.967	-11.752	7.4	1.000	1.000	1.000	18.98	138.5	0.61	Dn
	30.0	160.0	12.685	-11.920	5.5	1.000	1.000	1.000	18.57	146.6	0.47	Dn
	30.0	165.0	12.433	-12.010	3.9	1.000	1.000	1.000	18.27	154.9	0.35	Dn
OptDn >	**30.0**	**168.6**	**12.272**	**12.028**	**2.8**	**1.000**	**1.000**	**1.000**	**18.13**	**160.9**	**0.26**	**Dn**
	30.0	170.0	12.210	-12.025	0.0	1.000	1.000	1.000	18.10	163.3	0.22	Dn
	30.0	175.0	12.010	-11.964	0.0	1.000	1.000	1.000	18.07	171.7	0.11	Dn
	30.0	180.0	11.828	-11.828	0.0	1.000	1.000	1.000	18.17	180.0	-0.00	Dn

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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
TWIST	Measure of Reduction in Sail CE Height
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/Cant Keel 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.

Course Times

This page shows the predicted boat performance over a series of 1.0 nautical mile courses in various windspeeds. Times around the course are expressed as seconds. The courses reflect five different course conditions:- LEEWARD, LINEAR RANDOM (LR), WINDWARD-LEEWARD (WL), WINDWARD and CIRCULARRANDOM (CR).

Times for 1 nm (secs)

This page is similar to the Best Boatspeeds page in that it represents the boatspeeds for a series of true windspeeds and true wind angles. Boatspeeds are expressed as seconds/nautical mile. Shaded areas again depict the off optimum conditions. Optimum upwind and downwind values, in terms of VMG, are presented underneath the table.

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.

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