

Creative 7103

Table of Boat Speed Polars (knots)* (at True Wind Angles)

True Wind Speed	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
Opt Beat Angle	44.2°	43.2°	40.0°	37.7°	35.7°	35.6°	35.9°
Optimum Beat	5.01	6.08	6.54	6.72	6.91	7.08	7.20
52°	5.57	6.76	7.30	7.55	7.83	8.02	8.13
60°	6.04	7.10	7.60	7.83	8.13	8.33	8.45
75°	6.85	7.57	8.00	8.30	8.72	9.00	9.18
90°	7.22	7.91	8.38	8.75	9.33	9.76	10.09
110°	7.28	8.12	8.68	9.16	10.05	10.90	11.48
120°	7.09	8.02	8.71	9.25	10.31	11.38	12.11
135°	6.22	7.30	7.91	8.48	9.87	11.90	13.09
150°	4.48	5.71	6.82	7.54	8.66	9.97	12.07
165°	3.53	4.67	5.70	6.67	7.92	8.95	10.20
180°	3.14	4.18	5.16	6.06	7.47	8.43	9.42
Optimum Run	6.24	6.91	7.06	7.23	8.00	11.45	13.58
Opt Run Angle	134.8°	139.7°	147.1°	155.3°	163.0°	139.6°	142.7°

* Speed through the water. Available as a Performance Package from the Offshore Racing Association with detailed polar charts and files to upload into popular tactical programs. Go to: <https://offshoreracingrule.org/orr/polar-package>"

Table of Time Allowances (sec/mile)*

True Wind Speed	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
Opt Beat Angle	44.2	43.2	40.0	37.7	35.7	35.6	35.9
Beat VMG	1,002.6	813.0	718.0	677.9	641.9	625.5	616.9
52°	646.0	532.7	493.1	477.1	459.7	448.9	442.7
60°	595.9	507.3	473.6	459.5	443.1	432.4	426.0
75°	525.4	475.4	450.0	433.6	412.8	400.2	392.1
90°	498.7	455.0	429.8	411.6	385.8	368.8	356.6
110°	494.6	443.5	414.9	393.0	358.1	330.2	313.5
120°	507.8	448.9	413.1	389.3	349.1	316.4	297.3
135°	579.0	492.8	455.2	424.7	364.8	302.5	275.1
150°	709.2	592.4	525.7	477.6	415.7	357.6	288.4
165°	791.0	660.7	586.4	529.4	454.5	398.8	321.7
Run VMG	818.9	684.0	607.1	548.1	470.5	412.9	333.0
Opt Run Angle	134.8	139.7	147.1	155.3	163.0	139.6	142.7

* Sec/mile rating assume gybing downwind when target angles are deeper than best VMG angles.

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GPH Rating (SPM)

GPH	562.1
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Ratings by Wind Speed (TCF)

	Light	Medium	Heavy
Closed Course	0.8188	0.9395	1.1404
WL 50/50	0.7904	0.9336	1.1727
WL 60/40	0.7911	0.9316	1.1460

Performance Metrics

SA/D Dnwind:	66.700
SA/D Average:	45.94
SA/D Upwind:	25.170
D/Length:	121.6
Ave Perf Screen:	37.800

General Ratings (TCF)

Ocean Non Spinnaker	0.9151
Offshore Offwind	0.9426

Performance Curve Scoring (PCS) Ratings (SPM)

	6kt	8kt	10kt	12kt	16kt	20kt	24kt
Closed Course	756.8	619.8	546.8	504.3	456.1	424.8	398.9
WL 50/50	930.3	761.4	672.4	620.4	561.8	523.3	477.9
WL 60/40	948.8	774.8	684.3	633.6	579.1	545.0	506.9
Newport to Bermuda	830.6	656.0	548.7	477.5	404.4	382.1	367.3
Marion to Bermuda	837.5	662.3	555.5	485.5	413.9	391.8	377.3

Custom Ratings (TCF) ORA works with OA's to create custom ratings for your race course and wind conditions.

<i>Chicago Mac Upwind</i>	0.9331	<i>California Offshore</i>	0.9413	<i>Acapulco WW/LW</i>	0.9371
<i>Chicago Mac AP</i>	0.9386	<i>Pacific Cup</i>	0.9366	<i>Acapulco Random</i>	0.9385
<i>Chicago Mac Offwind</i>	0.9426	<i>Transpac (Approx.)</i>	0.8313	<i>Acapulco WW/LW5</i>	0.9349
<i>Bayview Mac</i>	0.9316	<i>Puerto Vallarta</i>	0.9428	<i>Acapulco Stat Fit</i>	0.9396
		<i>Cabo San Lucas</i>	0.9410	<i>San Francisco Bay</i>	0.9356

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Sails drawn in RED are based on Default Values

