

## Wani Racing Ericson 35-2 61277

Class: Ericson 35-2 Configuration: Sail Number: 61277 Year Built: 1972 Builder Test: Owner(s): Mitchell, Ben				
Certificate #: EZ11800 Valid Year: 2023 Type: New Cert Issue Date: 2023-08-20 Exp.Date: 2023-12-31 Offsets_file: US380A.OFF Cert Group: ORR-Ez SOCAL Comment:				
Rig Type: Sloop Forestay: Masthead Keel Type: Fixed Prop Type: Folding Prop Install: Strut Drive Prop Blades: 2				
LOA: 34.87 ft LWL: 25.75 ft Rated Length: 26.43 ft Beam Max: 10.04 ft Draft: 5.04 ft Disp Empty: 11662 lbs Disp Sailing: 13126 lbs Crew: 1393 lbs Water Ballast: lbs Wetted Area: 242.1 ft <sup>2</sup> LPS: 122.2 ° RM20: 596.6 ft-lbs Stab Index: 127 °				
Spinnaker: Both Symmetrical & Asymmetrical flown with spin pole Code Zero: Yes Genoa/Jib Leech: No Roach - Leech is straight Large Roach Headsail: No Jib Furler: No Main Roller Furling: No				
<b>Rig Dimensions</b> IG: 43.00 ft ISP: 43.00 ft J: 14.00 ft P: 37.00 ft E: 13.50 ft SPL: 14.00 ft	<b>Mainsail Meas.</b> HB: 0.54 ft MGT: 2.97 ft MGU: 5.13 ft MGM: 8.78 ft MGL: 11.48 ft Area: 307.3 ft <sup>2</sup>	<b>Jib/Genoa Meas.</b> LP: 21.70 ft LPG %: 155.0 % J Luff: 44.09 ft J Leech: 40.85 ft Area: 478.5 ft <sup>2</sup>	<b>Asymmetric Spin. Meas.</b> ASLU: 45.12 ft ASLE: 40.83 ft AMG: 25.22 ft ASF: 25.22 ft Area: 903.1 ft <sup>2</sup>	<b>Symmetric Spin. Meas.</b> SL: 42.98 ft SMW: 25.22 ft SF: 25.22 ft Area: 903.2 ft <sup>2</sup>

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#### Table of Time Allowances (sec/mile)\* (at True Wind Angles)

True Wind Speed	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
Opt Beat Angle	50.2	48.5	46.2	44.9	42.9	40.9	40.4	41.3
Beat VMG	1,736.7	1,270.4	1,055.5	943.6	885.0	833.3	818.7	828.7
52°	1,074.11	790.43	661.50	611.63	588.76	568.29	561.63	562.83
60°	961.33	718.82	613.75	578.93	561.35	544.25	535.20	531.17
75°	846.58	649.68	574.01	543.50	526.64	506.99	496.48	490.78
90°	800.50	619.11	552.85	522.45	506.05	484.95	472.34	465.16
110°	804.18	623.51	558.69	526.56	502.96	466.95	450.70	440.78
120°	861.20	657.21	576.29	541.35	515.69	475.88	443.54	430.63
135°	1,153.2	800.39	637.95	576.85	542.96	496.93	461.14	428.88
150°	1,412.4	978.3	763.6	637.13	578.23	519.50	480.54	447.96
165°	1,575.3	1,091.2	851.7	708.9	618.25	540.19	497.27	463.73
Run VMG	1,630.9	1,129.7	881.7	733.9	639.9	552.7	507.1	472.7
Opt Run Angle	130.2	137.2	149.5	154.0	166.1	173.5	173.8	173.5

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

#### Performance Metrics

SA/D Dnwind:	34.810
SA/D Average:	28.71
SA/D Upwind:	22.600
D/Length:	317.2
Ave Perf Screen:	9.100
DnWind Perf Screen:	11.0

#### Standard Ratings

	TOT (Spin)				TOD (Spin)			
	V.Light	Light	Medium	Heavy	V.Light	Light	Medium	Heavy
RANDOM LEG	0.354	0.559	0.743	0.853	1,351.7	855.4	644.0	560.7
W50/L50	0.341	0.548	0.748	0.870	1,718.8	1,070.2	783.7	674.2
W60/L40	0.346	0.550	0.741	0.848	1,731.6	1,087.8	808.1	706.1
MOSTLY WW	0.369	0.567	0.725	0.795	1,631.2	1,062.7	830.6	758.2
MOSTLY LW	0.356	0.562	0.759	0.914	1,328.3	841.1	622.4	516.8

#### Benchmark Ratings

	TOT (Spin)	TOD (Spin)
GPH	0.740	712.9
IR#	0.750	713.0

#### ORR-Ez PHRF

TOD (Spin)
176.7

ORR-Ez PHRF are based on the Farr 40 MH as Scratch Boat.

#### Standard PCS Ratings

	TOD (Spin)							
	4	6	8	10	12	16	20	24
RANDOM LEG	1,353.7	971.6	789.6	692.9	637.9	583.2	558.9	548.0
W50/L50	1,718.8	1,223.7	983.7	851.3	773.4	700.5	669.7	657.3
W60/L40	1,731.6	1,238.4	1,001.1	872.8	798.1	728.9	701.2	693.3
MOSTLY WW	1,630.1	1,191.2	987.8	880.5	822.6	770.4	752.9	756.8
MOSTLY LW	1,328.3	954.8	776.9	677.8	614.7	550.1	512.8	491.5

#### ORR-Ez PHRF Time Allowance 4 Winds

	TOD (Spin)			
	V.Light	Light	Medium	Heavy
RANDOM LEG	361.3	222.1	162.1	157.1
W50/L50	511.9	301.8	197.0	187.8
W60/L40	515.5	313.2	212.0	200.6
MOSTLY WW	464.1	312.0	230.9	216.8
MOSTLY LW	383.8	221.2	144.6	142.7

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Opt Beat Angle	50.2	48.5	46.2	44.9	42.9	40.9	40.4	41.3
Beat VMG	1,736.7	1,270.4	1,055.5	943.6	885.0	833.3	818.7	828.7
52°	1,074.11	790.43	661.50	611.63	588.76	568.29	561.63	562.83
60°	961.33	718.82	613.75	578.93	561.35	544.25	538.01	537.74
75°	843.29	649.68	577.05	545.93	529.91	514.06	507.14	504.80
90°	825.33	639.02	571.50	540.87	519.68	497.59	488.83	484.37
110°	935.60	702.95	603.90	565.57	539.95	503.14	475.74	467.30
120°	1,062.29	779.36	649.81	590.25	558.44	515.59	484.14	462.93
135°	1,447.00	991.87	765.50	653.89	592.44	533.18	495.49	465.50
150°	1,725.87	1,150.34	862.56	716.53	625.02	546.50	503.95	471.32
165°	1,781.21	1,197.37	905.57	741.90	640.60	548.72	501.94	466.65
Run VMG	1,800.7	1,210.1	915.0	749.4	647.0	554.4	507.7	472.7
Opt Run Angle	171.8	171.8	171.9	172.1	172.1	173.5	173.8	173.5

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

#### Performance

##### Metrics

SA/D:	22.60
D/Length:	317.2
Perf Screen:	7.1

#### Standard Ratings

	V.Light	TOT (Non-Spin)			V.Light	TOD (Non-Spin)		
		Light	Medium	Heavy		Light	Medium	Heavy
RANDOM LEG	0.334	0.534	0.720	0.833	1,434.6	896.4	664.2	574.1
W50/L50	0.329	0.538	0.746	0.869	1,780.5	1,090.1	786.2	674.3
W60/L40	0.336	0.542	0.739	0.847	1,780.6	1,103.8	810.0	706.1
MOSTLY WW	0.366	0.564	0.724	0.793	1,646.5	1,068.7	832.4	759.9
MOSTLY LW	0.320	0.527	0.736	0.888	1,476.8	896.8	641.6	532.0

#### Benchmark Ratings

	TOT (Non-Spin)	TOD (Non-Spin)
GPH	0.712	741.7
IR#	0.742	721.7

#### ORR-Ez PHRF

TOD (Non-Spin)
185.4

ORR-Ez PHRF are based on the Farr 40 MH as Scratch Boat.

#### Standard PCS Ratings

	TOD (Non-Spin)							
	4	6	8	10	12	16	20	24
RANDOM LEG	1,441.1	1,026.1	826.7	720.0	658.2	597.8	572.1	561.8
W50/L50	1,793.1	1,261.1	1,001.1	859.4	777.2	701.4	670.0	657.3
W60/L40	1,791.1	1,269.1	1,015.1	879.3	801.2	729.6	701.4	693.3
MOSTLY WW	1,649.1	1,201.1	993.0	883.9	824.7	771.9	754.6	758.7
MOSTLY LW	1,493.1	1,043.1	822.9	705.1	635.4	566.8	529.4	504.4

#### ORR-Ez PHRF Allowance 4 Winds

	TOD (Non-Spin)			
	V.Light	Light	Medium	Heavy
RANDOM LEG	444.2	263.1	182.3	170.5
W50/L50	573.6	321.7	199.5	187.9
W60/L40	564.5	329.2	213.9	200.6
MOSTLY WW	479.4	318.0	232.7	218.5
MOSTLY LW	532.3	276.9	163.8	157.9