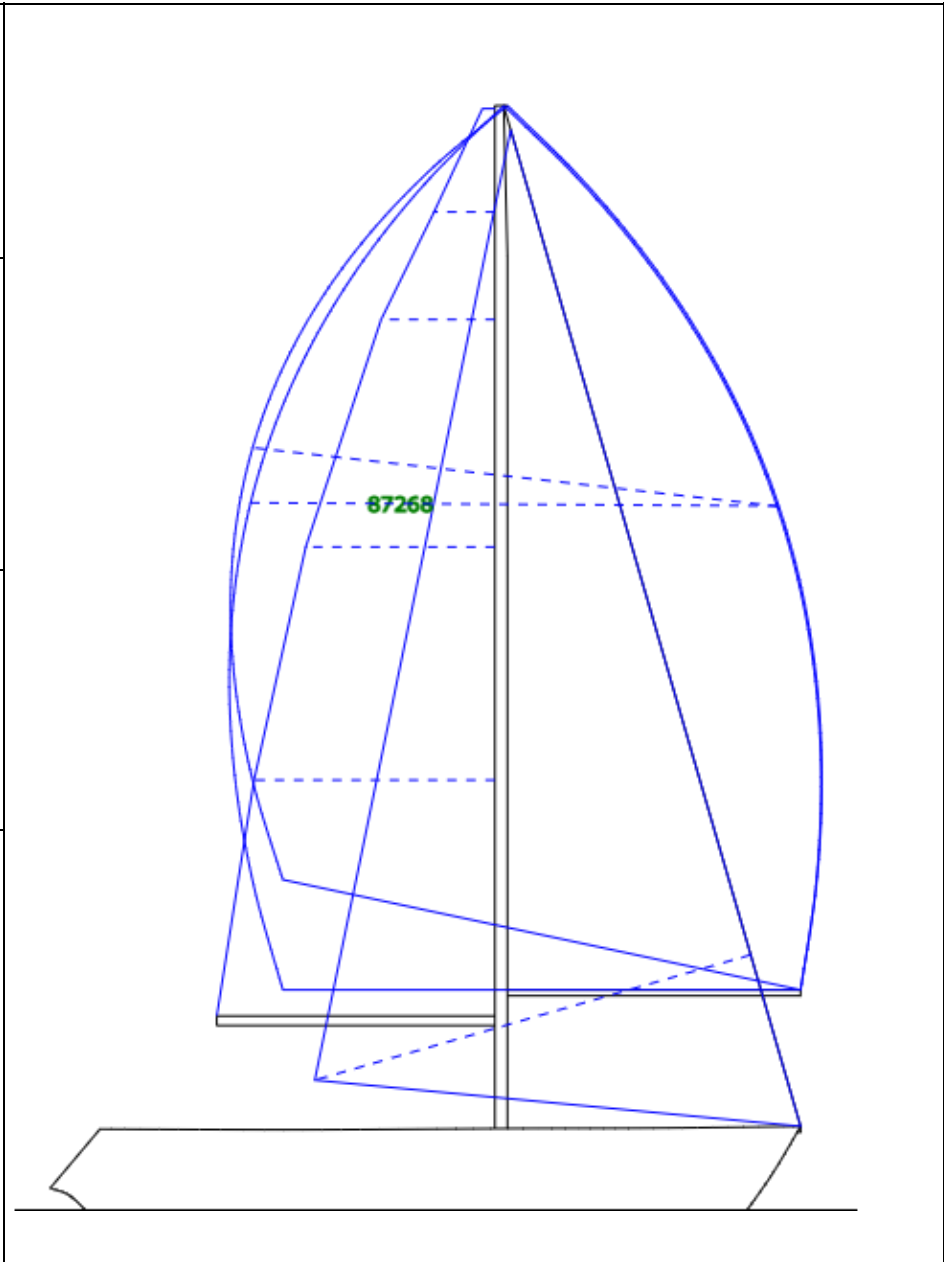


## Blind Squirrel Santana 3030 gp 87268

<b>Spinnaker</b>	<b>GPH: 0.794 / 667.5</b>	<b>IR#: 0.806 / 665.2</b>	<b>PHRF BM: 129.0</b>
<b>Non-Spin</b>	<b>GPH: 0.759 / 697.7</b>	<b>IR#: 0.791 / 677.9</b>	<b>PHRF BM: 141.7</b>

Class:	Santana 3030 gp
Configuration:	
Sail Number:	87268
Year Built:	1983
Builder:	SCHOCK
Owner(s):	Schrager, Mike
Certificate #:	EZ11610
Valid Year:	2024
Type:	Renew Chg
Issue Date:	2024-05-20
Exp.Date:	2024-12-31
Offsets_file:	US17714M.OFF
Cert Group:	ORR-Ez SOCAL
Comment:	
Rig Type:	Sloop
Forestay:	Masthead
Keel Type:	Fixed
Prop Type:	Fixed
Prop Install:	Exposed
Prop Blades:	2
Prop Diameter:	0.00 ft
LOA:	29.95 ft
LWL:	24.92 ft
Rated Length:	26.21 ft
Beam Max:	10.35 ft
Draft:	5.31 ft
Disp Empty:	6120 lbs
Disp Sailing:	7370 lbs
Crew:	1077 lbs
Water Ballast:	0 lbs
Wetted Area:	195.5 ft <sup>2</sup>
LPS:	104.0 °
RM20:	421.1 ft-lbs
Stab Index:	98 °



Spinnaker:	Both Symmetrical & Asymmetrical flown with spin pole
Genoa/Jib Leech:	No Roach - Leech is straight
Large Roach Headsail:	No
Jib Furler:	No
Main Roller Furling:	No

Rig Dimensions	Mainsail Meas.	Jib/Genoa Meas.	Asymmetric Spin. Meas.	Symmetric Spin. Meas.
IG: 40.80 ft	HB: 0.50 ft	LP: 18.10 ft	ASLU: 43.41 ft	SL: 39.10 ft
ISP: 40.81 ft	MGT: 2.43 ft	LPG %: 154.7 %	ASLE: 38.00 ft	SMW: 21.00 ft
J: 11.70 ft	MGU: 4.54 ft	J Luff: 41.40 ft	AMG: 21.00 ft	SF: 20.66 ft
P: 36.20 ft	MGM: 7.55 ft	J Leech: 38.76 ft	ASF: 20.66 ft	Area: 682.1 ft <sup>2</sup>
E: 11.10 ft	MGL: 9.61 ft	Area: 374.7 ft <sup>2</sup>	Area: 710.0 ft <sup>2</sup>	
SPL: 11.70 ft	Area: 253.2 ft <sup>2</sup>			

### Spinnaker

#### Polar Time Allowances

True Wind Speed	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
Opt Beat Angle	46.2	45.4	44.5	41.3	39.2	37.3	37.0	37.7
Beat VMG	1,554.40	1,122.23	917.78	831.41	789.54	754.08	745.93	751.00
52°	973.84	716.93	600.30	567.11	550.81	535.88	530.57	530.37
60°	871.88	660.72	574.02	545.50	531.33	517.45	511.69	506.75
75°	795.25	616.02	551.28	520.61	506.06	485.47	473.65	465.97
90°	776.15	597.52	530.20	501.23	483.41	458.42	442.44	432.12
110°	777.84	601.70	537.46	501.59	473.25	432.61	408.08	390.83
120°	824.78	631.70	556.64	519.33	490.56	437.16	392.21	371.68
135°	1,142.85	789.96	619.13	559.85	523.67	470.02	418.57	356.92
150°	1,399.70	966.88	752.36	623.56	563.53	498.54	449.72	399.35
165°	1,561.16	1,078.41	839.15	695.06	605.46	522.52	472.45	427.04
Run VMG	1,616.23	1,116.45	868.75	719.58	626.82	537.03	485.12	440.17
Opt Run Angle	134.4	136.3	138.6	151.4	165.4	172.7	173.3	172.1

#### Benchmark Ratings

	TOT (Spin)	TOD (Spin)
GPH	0.794	667.5
IR#	0.806	665.2

#### Performance Metrics

SA/D Dnwind:	40.700
SA/D Average:	33.62
SA/D Upwind:	26.530
D/Length:	182.7
Ave Perf Screen:	18.400
DnWind Perf	22.3
Screen:	

#### PCS Ratings

	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
RANDOM LEG	1,270.0	910.7	738.9	648.5	596.7	543.8	516.0	496.3
W50/L50	1,612.3	1,139.4	909.2	787.4	718.2	652.4	621.5	601.3
W60/L40	1,606.7	1,140.8	915.1	799.0	734.5	674.4	647.9	632.7
MOSTLY WW	1,643.6	1,176.4	952.4	837.1	773.2	717.4	699.7	697.6
MOSTLY LW	1,412.7	996.6	793.6	679.7	609.2	528.0	481.2	450.6
MOSTLY REACH	1,160.3	837.4	684.6	606.2	561.4	515.0	487.8	465.7

### Non-Spinnaker

#### Polar Time Allowances

True Wind Speed	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
Opt Beat Angle	46.2	45.4	44.5	41.3	39.2	37.3	37.0	37.7
Beat VMG	1,554.40	1,122.23	917.78	831.41	789.54	754.08	745.93	751.00
52°	973.84	716.93	600.30	567.11	550.81	535.88	530.57	530.37
60°	871.88	660.72	574.02	545.50	531.33	517.45	511.81	510.63
75°	795.12	616.02	551.40	520.61	506.98	491.66	484.29	480.61
90°	787.66	611.71	549.39	515.73	492.66	472.84	462.43	455.21
110°	893.43	674.84	583.76	545.59	517.67	473.84	441.89	431.46
120°	1,048.77	761.50	627.02	572.73	539.46	491.27	449.86	425.01
135°	1,417.32	975.21	755.65	638.23	577.77	513.62	468.52	425.99
150°	1,692.84	1,134.18	854.88	706.78	612.05	529.38	480.30	436.81
165°	1,767.91	1,189.77	900.83	736.57	630.91	533.78	480.25	434.33
Run VMG	1,787.75	1,202.61	910.17	743.89	637.03	539.12	485.72	440.17
Opt Run Angle	171.9	172.0	172.0	172.1	172.1	173.2	173.1	172.1

#### Benchmark Ratings

	TOT (Non-Spin)	TOD (Non-Spin)
GPH	0.759	697.7
IR#	0.791	677.9

#### Performance Metrics

SA/D:	26.53
D/Length:	182.7
Perf Screen:	14.5

#### PCS Ratings

	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
RANDOM LEG	1,358.1	966.5	777.3	677.2	619.0	561.3	533.9	517.9
W50/L50	1,690.1	1,181.2	930.9	799.3	723.8	653.5	621.8	601.3
W60/L40	1,668.5	1,174.2	932.6	808.5	739.0	675.2	648.1	632.8
MOSTLY WW	1,658.6	1,185.6	958.4	841.1	776.0	719.3	701.8	699.9
MOSTLY LW	1,554.7	1,081.0	847.2	718.2	638.5	551.8	504.0	471.3
MOSTLY REACH	1,249.8	895.7	726.3	637.6	586.8	535.7	509.8	494.3

## Blind Squirrel Santana 3030 gp 87268

### Spinnaker

#### Standard 5 Winds

	TOT (Spin)					TOD (Spin)				
	V.Light <5	Light 5-7	Lt/Med 7-9	Medium 9-15	Heavy >15	V.Light <5	Light 5-7	Lt/Med 7-9	Medium 9-15	Heavy >15
RANDOM LEG	0.410	0.535	0.679	0.815	1.003	1,270.0	973.2	766.0	638.6	518.7
W50/L50	0.394	0.520	0.671	0.819	1.015	1,612.3	1,220.3	945.3	775.0	625.1
W60/L40	0.403	0.531	0.681	0.822	0.994	1,606.7	1,220.9	951.6	788.3	651.7
MOSTLY WW	0.418	0.546	0.695	0.831	0.975	1,643.6	1,257.5	988.6	827.0	704.9
MOSTLY LW	0.374	0.495	0.642	0.798	1.087	1,412.7	1,067.6	823.3	662.8	486.6
MOSTLY REACH	0.418	0.543	0.684	0.812	0.992	1,160.3	894.1	709.4	597.6	489.5

#### Standard Single Wind

	TOT (Spin) Single	TOD (Spin) Single
RANDOM LEG	0.790	659.1
W50/L50	0.789	804.7
W60/L40	0.791	818.6
MOSTLY WW	0.800	859.4
MOSTLY LW	0.776	681.4
MOSTLY REACH	0.789	615.4

#### Legacy 4 Winds

	TOT (Spin)				TOD (Spin)			
	V.Light	Light	Medium	Heavy	V.Light	Light	Medium	Heavy
RANDOM LEG	0.379	0.599	0.797	0.928	1,270.0	802.2	603.0	518.0
W50/L50	0.365	0.592	0.809	0.942	1,612.3	993.9	727.3	624.2
W60/L40	0.374	0.601	0.808	0.923	1,606.7	998.9	743.1	650.7
MOSTLY WW	0.383	0.608	0.805	0.894	1,643.6	1,035.6	782.2	703.6
MOSTLY LW	0.344	0.561	0.788	1.002	1,412.7	866.6	616.7	485.2
MOSTLY REACH	0.388	0.608	0.795	0.921	1,160.3	741.4	566.8	489.1

### Non-Spinnaker

#### Standard 5 Winds

	TOT (Non-Spin)					TOD (Non-Spin)				
	V.Light <5	Light 5-7	Lt/Med 7-9	Medium 9-15	Heavy >15	V.Light <5	Light 5-7	Lt/Med 7-9	Medium 9-15	Heavy >15
RANDOM LEG	0.383	0.503	0.645	0.781	0.968	1,358.1	1,034.0	807.0	665.9	537.7
W50/L50	0.376	0.501	0.654	0.808	1.015	1,690.1	1,267.4	970.5	785.6	625.6
W60/L40	0.388	0.515	0.667	0.813	0.994	1,668.5	1,258.4	971.8	796.8	652.0
MOSTLY WW	0.414	0.542	0.691	0.827	0.972	1,658.6	1,267.5	995.0	830.8	707.0
MOSTLY LW	0.340	0.456	0.599	0.756	1.039	1,554.7	1,160.9	882.1	699.7	509.0
MOSTLY REACH	0.388	0.507	0.645	0.773	0.946	1,249.8	957.3	753.2	628.0	513.2

#### Standard Single Wind

	TOT (Non-Spin) Single	TOD (Non-Spin) Single
RANDOM LEG	0.755	689.2
W50/L50	0.776	818.4
W60/L40	0.781	829.6
MOSTLY WW	0.796	863.7
MOSTLY LW	0.731	723.4
MOSTLY REACH	0.749	648.6

#### Legacy 4 Winds

	TOT (Non-Spin)				TOD (Non-Spin)			
	V.Light	Light	Medium	Heavy	V.Light	Light	Medium	Heavy
RANDOM LEG	0.354	0.568	0.768	0.895	1,358.1	846.9	626.3	536.8
W50/L50	0.348	0.575	0.801	0.942	1,690.1	1,023.1	733.9	624.6
W60/L40	0.360	0.587	0.803	0.922	1,668.5	1,022.4	748.4	651.1
MOSTLY WW	0.379	0.604	0.801	0.892	1,658.6	1,042.6	785.2	705.7
MOSTLY LW	0.313	0.522	0.751	0.957	1,554.7	931.8	647.6	507.8
MOSTLY REACH	0.360	0.571	0.760	0.879	1,249.8	788.8	593.1	512.4

*Blind Squirrel Santana 3030 gp 87268*

## Spinnaker

### PHRF Benchmark

129.0

*Aligned Ratings are based on the Farr 40 MH as Scratch Boat.*

### PHRF Single Wind

RANDOM LEG	138.7
W50/L50	170.0
W60/L40	170.8
MOSTLY WW	172.3
MOSTLY LW	152.6
MOSTLY REACH	129.9

### PHRF 5 Winds

	V.Light <5	Light 5-7	Lt/Med 7-9	Medium 9-15	Heavy >15
RANDOM LEG	281.2	211.0	161.3	131.0	115.7
W50/L50	404.8	291.7	208.9	155.4	137.2
W60/L40	387.2	282.4	206.1	157.4	141.6
MOSTLY WW	337.0	255.5	198.0	163.0	150.6
MOSTLY LW	350.9	256.6	188.8	143.9	115.6
MOSTLY REACH	253.5	192.1	148.9	123.5	107.9

## Non-Spinnaker

### PHRF Benchmark

141.7

*Aligned Ratings are based on the Farr 40 MH as Scratch Boat.*

### PHRF Single Wind

RANDOM LEG	168.8
W50/L50	183.7
W60/L40	181.8
MOSTLY WW	176.6
MOSTLY LW	194.6
MOSTLY REACH	163.1

### PHRF 5 Winds

	V.Light <5	Light 5-7	Lt/Med 7-9	Medium 9-15	Heavy >15
RANDOM LEG	369.3	271.8	202.3	158.3	134.7
W50/L50	482.6	338.8	234.1	166.0	137.7
W60/L40	449.0	319.9	226.3	165.9	141.9
MOSTLY WW	352.0	265.5	204.4	166.8	152.7
MOSTLY LW	492.9	349.9	247.6	180.8	138.0
MOSTLY REACH	343.0	255.3	192.7	153.9	131.6