Data File: **FF36Kamu**
Date: **2008-08-27:20:09:03**
Yacht Name: **FF36**
Sail No: **Fin36**
Class: **Finnflyer 36**
Designer: **Kamu**
Builder: **Finn Yachts**
Offset File: **FF36CLUB.OFF**

GPH = **596.9**

L P P (**metric** units)

Hull							
loa	**11.000**	beam max	**3.396**	x beam max	**7.237**	displacement sailing trim	**5985.120**
draft sailing trim	**2.241**	x draft sailing trim	**5.400**	draft measurement trim	**2.199**	imsl	**10.068**
imsb	**3.005**	imsd	**1.898**	imsbtr	**5.061**	displacement unit immersion	**18.977**
moment unit trim	**9.015**	minimum displacement	**2945.847**	crewweight default	**685.609**	crewweight	**640.000**
baft	**2.620**	bfwd	**0.410**	dmt	**3.348**	x dmt	**5.400**
accomodation length race	**11.000**	accomodation length cruise	**11.000**	gyradius heavy items adjust	**0.001**	nominal gyradius	**2.334**
gyradius adjust	**0.024**	endplate extension	**-0.055**	pipa	**0.004**		

Rig General					
mast weight default	**91.417**	rigging weight default	**28.802**	mast rig weight measured	**150.000**
mast vcg to base p default	**4.836**	rigging vcg to base p default	**4.258**	mast rig vcg to base p measured	**5.200**

Rig Details											
p rated	**14.800**	p measured	**14.800**	bas rated	**1.700**	e rated	**5.100**	e measured	**5.100**	ig rated	**15.000**	i rated	**15.000**
j rated	**4.170**	sfj rated	**0.200**	hbi rated	**1.146**	spl rated	**4.170**	tps rated	**4.170**	isp rated	**15.000**	mdl1 rated	**0.210**
mdt1 rated	**0.114**	mdl2 rated	**0.160**	mdt2 rated	**0.100**	n spreaders	**2.000**	py rated	**0.000**	py measured	**0.000**	basy rated	**0.000**
ey rated	**0.000**	ey measured	**0.000**	mdl1y rated	**0.000**	mdt1y rated	**0.000**	mdl2y rated	**0.000**	mdt2y rated	**0.000**		

Sails General					
sail area vpp	**69.974**	area foretriangle	**31.275**	fractionality	**0.909**

overlap	**1.054**	roach ims	**0.190**	woven dacron sails	**NaN**
stormjib maxarea	**11.250**	stormjib maxjl	**9.750**	stormtry maxarea	**13.209**
heavyjib maxarea	**30.375**				

Mainsail									
mgl measured	**4.270**	mgm measured	**3.280**	mgu measured	**1.920**	mgt measured	**1.100**	hb measured	**0.170**
area rated	**44.890**	zce geometric	**7.498**						

Jib													
jl measured	**15.000**	lpg measured	**4.370**	jh measured	**0.000**	jgt measured	**0.634**	jgu measured	**1.198**	jgm measured	**2.325**	jgl measured	**3.383**
jl rated	**15.000**	lpg rated	**4.370**	jh rated	**0.000**	jgt rated	**0.634**	jgu rated	**1.198**	jgm rated	**2.325**	jgl rated	**3.383**
area rated	**34.390**	zce geometric	**5.031**										

Symmetric Spinnaker					
sl measured	**14.790**	smw measured	**7.990**	sf measured	**7.990**
sl default	**14.790**	smw default	**7.506**	sf default	**7.506**
area rated	**111.082**	zce geometric	**8.475**		

Asymmetric Spinnaker					
asl measured	**0.000**	amg measured	**0.000**	asf measured	**0.000**
asl default	**14.790**	amg default	**0.000**	asf default	**0.000**
area rated	**0.000**	zce geometric	**0.000**		

Code Zero					
c0l measured	**0.000**	c0m measured	**0.000**	c0f measured	**0.000**
c0l default	**0.000**	c0m default	**0.000**	c0f default	**0.000**
area rated	**0.000**	zce geometric	**0.000**		

Hydrostatics (measured)

sffp	**0.394**	safp	**10.553**	overhang fwd	**0.586**	overhang aft	**10.062**
height transom sailing trim	**0.125**	x transom sailing trim	**10.981**	height transom measurement trim	**0.189**	hbi measurement trim	**1.184**
rmc	**131.175**	rma25	**2699.578**	capsize angle	**124.439**	stability index	**125.582**
rm positive area	**24.114**	rm negative area	**6.196**	rm ratio areas	**3.892**		

Hydrostatics (averaged)		
rmc **129.810**	rma25 **2666.446**	

Stability Curve (Declared CW)		**Stability Curve (Default CW)**	
heel	**righting arm**	**heel**	**righting arm**
0.0000	**0.000**	0.0000	**0.000**
25.0000	**0.451**	25.0000	**0.456**
60.0000	**0.630**	60.0000	**0.640**
90.0000	**0.468**	90.0000	**0.480**
120.0000	**0.055**	120.0000	**0.065**
150.0000	**-0.330**	150.0000	**-0.323**
165.0000	**-0.390**	165.0000	**-0.385**
180.0000	**0.000**	180.0000	**0.000**

Complete Hull Sailing Trim (sg = 1025.0)

Heel = 0.0°							
displacement	**5985.347**	wetted area	**27.122**	vcg above offsets datum	**0.089**	vcg above offsets waterline	**0.085**
vcb above offsets datum	**-0.193**	vcb above offsets waterline	**-0.197**	freeboard fwd	**1.337**	freeboard aft	**0.972**
z wl offsets aft	**0.086**	z wl offsets fwd	**0.004**	rm1deg	**132.590**	lcb aft of stem	**5.982**

Heel = 2.0°							
displacement	**5985.336**	wetted area	**27.106**	vcg above offsets datum	**0.089**	vcg above offsets waterline	**0.085**

vcb above offsets datum	**-0.196**	vcb above offsets waterline	**-0.200**	freeboard fwd	**1.337**	freeboard aft	**0.974**
z wl offsets aft	**0.085**	z wl offsets fwd	**0.004**	rm1deg	**132.590**	lcb aft of stem	**5.982**

Heel = 25.0°							
displacement	**5985.352**	wetted area	**25.635**	vcg above offsets datum	**0.089**	vcg above offsets waterline	**0.085**
vcb above offsets datum	**-0.488**	vcb above offsets waterline	**-0.492**	freeboard fwd	**1.328**	freeboard aft	**1.145**
z wl offsets aft	**-0.087**	z wl offsets fwd	**0.013**	rm1deg	**107.983**	lcb aft of stem	**5.982**

Complete Hull Measurement Trim (sg = 1025.0)

Heel = 0.0°							
displacement	**5109.505**	wetted area	**25.576**	vcg above offsets datum	**-0.054**	vcg above offsets waterline	**-0.058**
vcb above offsets datum	**-0.232**	vcb above offsets waterline	**-0.235**	freeboard fwd	**1.358**	freeboard aft	**1.037**
z wl offsets aft	**0.021**	z wl offsets fwd	**-0.017**	rm1deg	**131.175**	lcb aft of stem	**5.876**

Heel = 2.0°							
displacement	**5109.482**	wetted area	**25.560**	vcg above offsets datum	**-0.054**	vcg above offsets waterline	**-0.058**
vcb above offsets datum	**-0.234**	vcb above offsets waterline	**-0.238**	freeboard fwd	**1.358**	freeboard aft	**1.038**
z wl offsets aft	**0.020**	z wl offsets fwd	**-0.017**	rm1deg	**131.175**	lcb aft of stem	**5.876**

Simple Scoring Options

Coefficient	*Offshore*	*Inshore*
GPH, ILC	**596.9**	**668.5**

TMF	**1.0051**	**1.0098**
PLD	**71.6**	**350.9**
PLT	**0.7979**	**1.1320**
TMF Low	**0.9915**	**0.7533**
TMF Medium	**1.2749**	**1.0242**
TMF High	**1.4267**	**1.1788**

Selected Courses

Non Wind-Averaged							
Course	**6**	**8**	**10**	**12**	**14**	**16**	**20**
W/L	997.2	794.9	691.6	636.5	600.4	576.8	549.9
Olympic	928.1	745.0	659.4	616.5	588.6	569.1	542.9
Circular Random	747.6	614.0	549.6	515.5	493.1	476.9	456.0
Linear	712.0	593.4	535.6	503.6	481.7	464.7	440.4
Ocean	878.6	692.1	591.6	531.1	490.1	460.7	418.0
Circular Jibs	837.4	672.6	589.4	542.7	514.3	495.4	472.6
Linear Jibs	786.9	645.9	574.1	532.1	505.0	486.1	461.2

Wind-Averaged							
Course	**6**	**8**	**10**	**12**	**14**	**16**	**20**
W/L	1014.9	809.5	703.1	644.4	607.5	583.2	555.1
Olympic	945.7	760.6	670.6	624.0	595.1	575.0	547.8
Circular Random	820.2	662.8	579.2	531.1	501.5	482.0	457.0
Linear	787.6	640.2	562.2	516.9	488.4	468.6	441.2
Ocean	929.0	729.0	616.2	546.1	499.3	465.8	418.8
Circular Jibs	902.9	719.9	620.5	562.1	526.0	502.5	474.0
Linear Jibs	859.9	692.4	601.8	548.3	514.6	491.9	462.3

Circular Jibs	837.4	672.6	589.4	542.7	514.3	495.4	472.6
Linear Jibs	786.9	645.9	574.1	532.1	505.0	486.1	461.2

Wind-Averaged							
Course	**6**	**8**	**10**	**12**	**14**	**16**	**20**
W/L	1014.9	809.5	703.1	644.4	607.5	583.2	555.1
Olympic	945.7	760.6	670.6	624.0	595.1	575.0	547.8
Circular Random	820.2	662.8	579.2	531.1	501.5	482.0	457.0
Linear	787.6	640.2	562.2	516.9	488.4	468.6	441.2
Ocean	929.0	729.0	616.2	546.1	499.3	465.8	418.8
Circular Jibs	902.9	719.9	620.5	562.1	526.0	502.5	474.0
Linear Jibs	859.9	692.4	601.8	548.3	514.6	491.9	462.3

Handicaps
Dynamic Allowance = **0.2291**, Age Allowance = **0.0000**

Wind Speed	**6** kts			**8** kts			**10** kts			**12** kts			**14** kts			**16** kts			**20** kts		
Wind Angle	*secs/NM* *Kts* *AWS*	*Headsail* *(twa)* *AWA*	*Heel* *Reef* *Flat*	*secs/NM* *Kts* *AWS*	*Headsail* *(twa)* *AWA*	*Heel* *Reef* *Flat*	*secs/NM* *Kts* *AWS*	*Headsail* *(twa)* *AWA*	*Heel* *Reef* *Flat*	*secs/NM* *Kts* *AWS*	*Headsail* *(twa)* *AWA*	*Heel* *Reef* *Flat*	*secs/NM* *Kts* *AWS*	*Headsail* *(twa)* *AWA*	*Heel* *Reef* *Flat*	*secs/NM* *Kts* *AWS*	*Headsail* *(twa)* *AWA*	*Heel* *Reef* *Flat*	*secs/NM* *Kts* *AWS*	*Headsail* *(twa)* *AWA*	*Heel* *Reef* *Flat*
Beat VMG	1019.5 4.91 9.99	jib 44.0° 23.8°	4.6° 1.00 1.00	824.3 6.00 12.78	jib 43.3° 24.0°	12.3° 1.00 1.00	738.5 6.36 14.94	jib 40.0° 22.8°	20.3° 1.00 0.95	702.3 6.55 16.96	jib 38.5° 23.1°	21.9° 1.00 0.78	681.5 6.68 18.91	jib 37.8° 23.6°	23.1° 1.00 0.66	669.6 6.77 20.80	jib 37.4° 24.2°	23.9° 1.00 0.56	664.1 6.83 24.40	jib 37.5° 25.6°	25.0° 0.99 0.44
52°	657.2 5.48 10.18	jib 26.7°	4.9° 1.00 1.00	546.9 6.58 12.84	jib 27.6°	12.6° 1.00 1.00	503.0 7.16 14.81	jib 27.9°	23.3° 1.00 1.00	487.1 7.39 16.66	jib 29.6°	24.7° 1.00 0.83	477.9 7.53 18.44	jib 31.1°	25.6° 1.00 0.71	472.6 7.62 20.18	jib 32.4°	26.3° 1.00 0.61	468.4 7.69 23.41	jib 34.5°	26.5° 0.90 0.60
60°	610.9 5.89 10.15	jib 29.7°	4.8° 1.00 1.00	523.9 6.87 12.61	jib 31.4°	11.5° 1.00 1.00	483.5 7.45 14.51	jib 32.3°	21.2° 1.00 1.00	469.0 7.68 16.15	jib 33.7°	25.5° 1.00 0.89	460.8 7.81 17.84	jib 35.6°	26.3° 1.00 0.76	455.8 7.90 19.51	jib 37.2°	26.9° 1.00 0.65	450.8 7.99 22.61	jib 39.8°	27.0° 0.87 0.69
70°	582.0 6.19 9.83	jib 33.7°	4.4° 1.00 1.00	510.0 7.06 12.08	jib 36.5°	9.3° 1.00 1.00	472.2 7.62 13.95	jib 38.5°	16.8° 1.00 1.00	452.7 7.95 15.32	jib 39.2°	26.1° 1.00 0.98	444.4 8.10 16.92	jib 41.5°	26.8° 1.00 0.85	438.9 8.20 18.50	jib 43.5°	27.4° 0.99 0.74	432.3 8.33 21.47	jib 46.7°	27.5° 0.87 0.79
75°	576.8 6.24 9.57	jib 35.9°	4.2° 1.00 1.00	504.0 7.14 11.77	spin_sym 38.7°	15.4° 1.00 1.00	470.8 7.65 13.59	jib 41.7°	14.4° 1.00 1.00	447.4 8.05 15.03	jib 42.8°	23.1° 1.00 1.00	437.6 8.23 16.40	jib 44.6°	27.0° 1.00 0.91	431.5 8.34 17.94	jib 46.8°	27.6° 1.00 0.79	424.0 8.49 20.85	jib 50.2°	27.7° 0.87 0.84
80°	575.3 6.26 9.25	jib 38.2°	3.9° 1.00 1.00	492.6 7.31 11.44	spin_sym 40.6°	16.6° 1.00 1.00	465.7 7.73 12.74	spin_sym 42.3°	26.9° 1.00 0.88	446.0 8.07 14.74	jib 46.9°	19.1° 1.00 1.00	431.4 8.34 15.84	jib 47.7°	27.1° 1.00 0.98	424.7 8.48 17.35	jib 50.1°	27.7° 1.00 0.86	416.1 8.65 20.21	jib 53.9°	27.9° 0.88 0.89
90°	554.8 6.49 8.79	spin_sym 42.4°	5.3° 1.00 1.00	483.1 7.45 10.66	spin_sym 45.7°	15.2° 1.00 1.00	453.9 7.93 11.77	spin_sym 47.6°	27.1° 1.00 0.96	442.3 8.14 13.11	spin_sym 51.6°	27.4° 0.92 0.97	429.9 8.37 15.35	jib 56.9°	17.5° 1.00 1.00	413.1 8.72 16.35	jib 57.8°	25.3° 1.00 1.00	401.7 8.96 18.86	jib 61.6°	28.2° 0.92 0.99
110°	563.8 6.39 7.08	spin_sym 52.1°	3.8° 1.00 1.00	494.8 7.28 8.70	spin_sym 58.4°	6.2° 1.00 1.00	457.4 7.87 10.14	spin_sym 63.7°	12.1° 1.00 1.00	428.0 8.41 11.29	spin_sym 67.2°	20.2° 1.00 1.00	410.9 8.76 12.00	spin_sym 70.0°	28.2° 0.98 1.00	400.6 8.99 13.28	spin_sym 73.8°	28.4° 0.91 1.00	382.1 9.42 15.92	spin_sym 79.4°	28.6° 0.81 1.00
120°	597.0 6.03 5.99	spin_sym 59.4°	2.9° 1.00 1.00	512.9 7.02 7.51	spin_sym 66.0°	4.0° 1.00 1.00	471.2 7.64 8.96	spin_sym 72.6°	5.7° 1.00 1.00	441.2 8.16 10.36	spin_sym 77.6°	10.5° 1.00 1.00	413.0 8.72 11.59	spin_sym 81.0°	16.8° 1.00 1.00	388.5 9.27 12.31	spin_sym 83.3°	25.6° 1.00 1.00	364.3 9.88 14.56	spin_sym 88.9°	29.0° 0.90 1.00
135°	701.3 5.13 4.31	spin_sym 77.7°	1.6° 1.00 1.00	562.2 6.40 5.67	spin_sym 82.0°	2.3° 1.00 1.00	502.0 7.17 7.01	spin_sym 88.8°	2.9° 1.00 1.00	466.8 7.71 8.43	spin_sym 94.8°	3.6° 1.00 1.00	440.5 8.17 9.93	spin_sym 99.6°	4.6° 1.00 1.00	416.1 8.65 11.44	spin_sym 103.0°	6.6° 1.00 1.00	361.4 9.96 14.02	spin_sym 106.6°	15.8° 1.00 1.00
150°	844.2 4.26 3.14	spin_sym 108.3°	0.7° 1.00 1.00	663.0 5.43 4.24	spin_sym 110.6°	1.1° 1.00 1.00	559.4 6.44 5.41	spin_sym 113.5°	1.5° 1.00 1.00	504.5 7.14 6.75	spin_sym 118.1°	1.9° 1.00 1.00	470.4 7.65 8.21	spin_sym 122.3°	2.3° 1.00 1.00	445.0 8.09 9.75	spin_sym 125.5°	2.8° 1.00 1.00	400.4 8.99 12.85	spin_sym 129.6°	4.1° 1.00 1.00
165°	941.6 3.82 2.73	spin_sym 145.6°	0.3° 1.00 1.00	739.5 4.87 3.68	spin_sym 146.1°	0.4° 1.00 1.00	622.7 5.78 4.72	spin_sym 147.0°	0.7° 1.00 1.00	551.3 6.53 5.86	spin_sym 148.3°	0.9° 1.00 1.00	502.1 7.17 7.22	spin_sym 150.1°	1.2° 1.00 1.00	469.9 7.66 8.71	spin_sym 151.9°	1.5° 1.00 1.00	423.6 8.50 11.85	spin_sym 154.3°	2.1° 1.00 1.00

180°	974.8 3.69 2.74	spin_sym 180.0°	0.0° 1.00 1.00	765.6 4.70 3.68	spin_sym 180.0°	0.1° 1.00 1.00	644.6 5.58 4.69	spin_sym 180.0°	0.1° 1.00 1.00	570.7 6.31 5.76	spin_sym 180.0°	0.2° 1.00 1.00	519.3 6.93 7.05	spin_sym 180.0°	0.3° 1.00 1.00	483.9 7.44 8.49	spin_sym 180.0°	0.4° 1.00 1.00	435.7 8.26 11.63	spin_sym 180.0°	0.7° 1.00 1.00
Run VMG	974.8 4.72 3.70	spin_sym 141.6° 89.2°	1.2° 1.00 1.00	765.6 5.85 4.75	spin_sym 143.5° 96.6°	1.5° 1.00 1.00	644.6 6.30 5.23	spin_sym 152.5° 118.6°	1.3° 1.00 1.00	570.7 6.62 5.95	spin_sym 162.4° 142.7°	1.0° 1.00 1.00	519.3 7.09 7.12	spin_sym 168.1° 156.2°	1.0° 1.00 1.00	483.9 7.51 8.51	spin_sym 172.0° 164.9°	1.0° 1.00 1.00	435.7 8.32 11.64	spin_sym 173.0° 167.9°	1.4° 1.00 1.00

Jib Performance (VPP Run Type = 0)
Without Dynamic Allowance & Age Allowance

Wind Speed	**6** kts			**8** kts			**10** kts			**12** kts			**14** kts			**16** kts			**20** kts		
Wind Angle	*secs/NM AWS AWA*	*Kts (twa)*	*Heel Reef Flat*	*secs/NM AWS AWA*	*Kts (twa)*	*Heel Reef Flat*	*secs/NM AWS AWA*	*Kts (twa)*	*Heel Reef Flat*	*secs/NM AWS AWA*	*Kts (twa)*	*Heel Reef Flat*	*secs/NM AWS AWA*	*Kts (twa)*	*Heel Reef Flat*	*secs/NM AWS AWA*	*Kts (twa)*	*Heel Reef Flat*	*secs/NM AWS AWA*	*Kts (twa)*	*Heel Reef Flat*
Beat VMG	1011.4 9.99 23.8°	4.95 44.0°	4.6° 1.00 1.00	818.3 12.78 24.0°	6.05 43.3°	12.3° 1.00 1.00	733.7 14.94 22.8°	6.40 40.0°	20.3° 1.00 0.95	698.2 16.96 23.1°	6.59 38.5°	21.9° 1.00 0.78	677.9 18.91 23.6°	6.72 37.8°	23.1° 1.00 0.66	666.6 20.80 24.2°	6.80 37.4°	23.9° 1.00 0.56	662.0 24.40 25.6°	6.85 37.5°	25.0° 0.99 0.44
52°	653.6 10.18 26.7°	5.51	4.9° 1.00 1.00	544.3 12.84 27.6°	6.61	12.6° 1.00 1.00	501.0 14.81 27.9°	7.19	23.3° 1.00 1.00	485.5 16.66 29.6°	7.42	24.7° 1.00 0.83	476.5 18.44 31.1°	7.55	25.6° 1.00 0.71	471.4 20.18 32.4°	7.64	26.3° 1.00 0.61	467.6 23.41 34.5°	7.70	26.5° 0.90 0.60
60°	609.1 10.15 29.7°	5.91	4.8° 1.00 1.00	522.5 12.61 31.4°	6.89	11.5° 1.00 1.00	482.5 14.51 32.3°	7.46	21.2° 1.00 1.00	468.1 16.15 33.7°	7.69	25.5° 1.00 0.89	460.1 17.84 35.6°	7.83	26.3° 1.00 0.76	455.2 19.51 37.2°	7.91	26.9° 1.00 0.65	450.4 22.61 39.8°	7.99	27.0° 0.87 0.69
70°	582.0 9.83 33.7°	6.19	4.4° 1.00 1.00	510.0 12.08 36.5°	7.06	9.3° 1.00 1.00	472.2 13.95 38.5°	7.62	16.8° 1.00 1.00	452.7 15.32 39.2°	7.95	26.1° 1.00 0.98	444.4 16.92 41.5°	8.10	26.8° 1.00 0.85	438.9 18.50 43.5°	8.20	27.4° 0.99 0.74	432.3 21.47 46.7°	8.33	27.5° 0.87 0.79
75°	576.8 9.57 35.9°	6.24	4.2° 1.00 1.00	507.6 11.74 39.2°	7.09	7.9° 1.00 1.00	470.8 13.59 41.7°	7.65	14.4° 1.00 1.00	447.4 15.03 42.8°	8.05	23.1° 1.00 1.00	437.6 16.40 44.6°	8.23	27.0° 1.00 0.91	431.5 17.94 46.8°	8.34	27.6° 1.00 0.79	424.0 20.85 50.2°	8.49	27.7° 0.87 0.84
80°	575.3 9.25 38.2°	6.26	3.9° 1.00 1.00	507.4 11.36 42.0°	7.10	6.4° 1.00 1.00	471.3 13.18 45.0°	7.64	12.0° 1.00 1.00	446.0 14.74 46.9°	8.07	19.1° 1.00 1.00	431.4 15.84 47.7°	8.34	27.1° 1.00 0.98	424.7 17.35 50.1°	8.48	27.7° 1.00 0.86	416.1 20.21 53.9°	8.65	27.9° 0.88 0.89
90°	582.9 8.48 43.3°	6.18	3.3° 1.00 1.00	512.5 10.45 47.8°	7.02	4.5° 1.00 1.00	476.7 12.23 51.9°	7.55	7.3° 1.00 1.00	451.9 13.88 55.0°	7.97	11.8° 1.00 1.00	429.9 15.35 56.9°	8.37	17.5° 1.00 1.00	413.1 16.35 57.8°	8.72	25.3° 1.00 1.00	401.7 18.86 61.6°	8.96	28.2° 0.92 0.99
110°	670.7 6.43 58.3°	5.37	1.9° 1.00 1.00	556.8 8.23 62.4°	6.47	2.6° 1.00 1.00	508.6 9.85 67.6°	7.08	3.2° 1.00 1.00	478.9 11.48 72.1°	7.52	3.9° 1.00 1.00	457.2 13.12 75.8°	7.87	4.9° 1.00 1.00	438.0 14.75 78.6°	8.22	7.3° 1.00 1.00	398.9 17.60 82.1°	9.03	16.0° 1.00 1.00
120°	762.8 5.36 70.3°	4.72	1.3° 1.00 1.00	612.8 7.01 73.5°	5.87	1.8° 1.00 1.00	539.5 8.59 77.8°	6.67	2.4° 1.00 1.00	499.8 10.17 82.2°	7.20	2.9° 1.00 1.00	473.6 11.77 86.1°	7.60	3.5° 1.00 1.00	453.2 13.41 89.2°	7.94	4.4° 1.00 1.00	416.0 16.58 93.6°	8.65	9.5° 1.00 1.00
135°	957.1 4.13 95.0°	3.76	0.7° 1.00 1.00	736.1 5.52 96.2°	4.89	1.1° 1.00 1.00	612.4 6.93 98.2°	5.88	1.5° 1.00 1.00	542.3 8.39 101.0°	6.64	2.0° 1.00 1.00	501.4 9.90 104.2°	7.18	2.6° 1.00 1.00	473.7 11.47 107.1°	7.60	3.2° 1.00 1.00	433.2 14.70 111.6°	8.31	5.1° 1.00 1.00
150°	1092.1 3.40 121.0°	3.30	0.5° 1.00 1.00	826.3 4.55 121.4°	4.36	0.8° 1.00 1.00	676.9 5.75 122.5°	5.32	1.1° 1.00 1.00	579.6 7.00 123.7°	6.21	1.5° 1.00 1.00	525.1 8.38 125.9°	6.86	2.0° 1.00 1.00	489.3 9.87 128.1°	7.36	2.4° 1.00 1.00	443.7 13.02 131.9°	8.11	3.6° 1.00 1.00
165°	1170.2 2.96 149.4°	3.08	0.3° 1.00 1.00	882.1 3.97 149.6°	4.08	0.5° 1.00 1.00	716.7 5.03 150.0°	5.02	0.7° 1.00 1.00	610.2 6.14 150.6°	5.90	1.0° 1.00 1.00	543.4 7.39 151.6°	6.63	1.3° 1.00 1.00	501.7 8.80 152.8°	7.18	1.6° 1.00 1.00	451.3 11.89 155.0°	7.98	2.4° 1.00 1.00
180°	1207.6 2.84 180.0°	2.98	0.1° 1.00 1.00	909.3 3.81 180.0°	3.96	0.1° 1.00 1.00	736.7 4.82 180.0°	4.89	0.2° 1.00 1.00	626.7 5.91 180.0°	5.74	0.3° 1.00 1.00	553.7 7.09 180.0°	6.50	0.4° 1.00 1.00	509.2 8.46 180.0°	7.07	0.5° 1.00 1.00	456.2 11.53 180.0°	7.89	0.9° 1.00 1.00
Run VMG	1204.3 2.86 166.1°	3.01 173.2°	0.2° 1.00 1.00	907.0 3.82 167.0°	3.99 173.7°	0.3° 1.00 1.00	735.3 4.83 169.3°	4.92 174.7°	0.4° 1.00 1.00	625.6 5.92 170.1°	5.78 175.0°	0.6° 1.00 1.00	553.3 7.09 174.5°	6.51 177.1°	0.6° 1.00 1.00	509.0 8.46 176.0°	7.08 177.8°	0.7° 1.00 1.00	456.1 11.52 177.4°	7.90 178.4°	1.1° 1.00 1.00

Poled Jib Performance (VPP Run Type = 0)
Without Dynamic Allowance & Age Allowance

Wind Speed	**6** kts			**8** kts			**10** kts			**12** kts			**14** kts			**16** kts			**20** kts		
Wind Angle	*secs/NM AWS AWA*	*Kts (twa)*	*Heel Reef Flat*	*secs/NM AWS AWA*	*Kts (twa)*	*Heel Reef Flat*	*secs/NM AWS AWA*	*Kts (twa)*	*Heel Reef Flat*	*secs/NM AWS AWA*	*Kts (twa)*	*Heel Reef Flat*	*secs/NM AWS AWA*	*Kts (twa)*	*Heel Reef Flat*	*secs/NM AWS AWA*	*Kts (twa)*	*Heel Reef Flat*	*secs/NM AWS AWA*	*Kts (twa)*	*Heel Reef Flat*
Beat VMG	0.0 0.00 0.0°	0.00 0.0°	0.0° 0.00 0.00	0.0 0.00 0.0°	0.00 0.0°	0.0° 0.00 0.00	0.0 0.00 0.0°	0.00 0.0°	0.0° 0.00 0.00	0.0 0.00 0.0°	0.00 0.0°	0.0° 0.00 0.00	0.0 0.00 0.0°	0.00 0.0°	0.0° 0.00 0.00	0.0 0.00 0.0°	0.00 0.0°	0.0° 0.00 0.00	0.0 0.00 0.0°	0.00 0.0°	0.0° 0.00 0.00

135°	1061.5 4.20 100.1°	3.39	0.6° 1.00 1.00	806.2 5.60 100.7°	4.47	1.0° 1.00 1.00	664.8 7.04 102.0°	5.41	1.4° 1.00 1.00	573.2 8.49 103.5°	6.28	1.8° 1.00 1.00	523.7 10.02 106.0°	6.87	2.3° 1.00 1.00	490.8 11.60 108.5°	7.33	2.8° 1.00 1.00	448.5 14.87 112.7°	8.03	4.3° 1.00 1.00
150°	1155.3 3.51 123.6°	3.12	0.4° 1.00 1.00	871.5 4.69 123.9°	4.13	0.7° 1.00 1.00	709.5 5.91 124.6°	5.07	1.0° 1.00 1.00	604.5 7.17 125.5°	5.96	1.3° 1.00 1.00	540.0 8.53 127.0°	6.67	1.6° 1.00 1.00	499.0 10.00 128.9°	7.21	1.9° 1.00 1.00	448.4 13.13 132.2°	8.03	2.6° 1.00 1.00
165°	1148.4 2.93 148.9°	3.13	0.1° 1.00 1.00	866.0 3.92 149.1°	4.16	0.2° 1.00 1.00	704.3 4.98 149.6°	5.11	0.2° 1.00 1.00	599.3 6.08 150.2°	6.01	0.3° 1.00 1.00	535.6 7.35 151.3°	6.72	0.4° 1.00 1.00	495.0 8.76 152.6°	7.27	0.6° 1.00 1.00	445.2 11.84 154.8°	8.09	0.8° 1.00 1.00
180°	1183.4 2.80 180.0°	3.04	0.0° 1.00 1.00	891.5 3.75 180.0°	4.04	0.0° 1.00 1.00	723.2 4.76 180.0°	4.98	0.0° 1.00 1.00	615.1 5.83 180.0°	5.85	0.0° 1.00 1.00	545.9 7.03 180.0°	6.60	0.0° 1.00 1.00	502.9 8.42 180.0°	7.16	-0.1° 1.00 1.00	451.4 11.49 180.0°	7.97	-0.1° 1.00 1.00
Run VMG	1162.2 2.77 163.8°	3.13 172.4°	0.0° 1.00 1.00	876.2 3.72 164.0°	4.14 172.4°	0.1° 1.00 1.00	712.2 4.73 164.5°	5.10 172.5°	0.1° 1.00 1.00	605.8 5.79 164.8°	5.99 172.5°	0.1° 1.00 1.00	541.0 7.02 166.9°	6.70 173.3°	0.2° 1.00 1.00	499.8 8.41 168.7°	7.24 173.9°	0.2° 1.00 1.00	449.5 11.49 170.6°	8.05 174.5°	0.2° 1.00 1.00

Spin Sym Performance (VPP Run Type = 0)
Without Dynamic Allowance & Age Allowance

Wind Speed	**6** kts			**8** kts			**10** kts			**12** kts			**14** kts			**16** kts			**20** kts		
Wind Angle	*secs/NM AWS AWA*	*Kts (twa)*	*Heel Reef Flat*	*secs/NM AWS AWA*	*Kts (twa)*	*Heel Reef Flat*	*secs/NM AWS AWA*	*Kts (twa)*	*Heel Reef Flat*	*secs/NM AWS AWA*	*Kts (twa)*	*Heel Reef Flat*	*secs/NM AWS AWA*	*Kts (twa)*	*Heel Reef Flat*	*secs/NM AWS AWA*	*Kts (twa)*	*Heel Reef Flat*	*secs/NM AWS AWA*	*Kts (twa)*	*Heel Reef Flat*
Beat VMG	0.0 0.00 0.0°	0.00 0.0°	0.0° 0.00 0.00	0.0 0.00 0.0°	0.00 0.0°	0.0° 0.00 0.00	0.0 0.00 0.0°	0.00 0.0°	0.0° 0.00 0.00	0.0 0.00 0.0°	0.00 0.0°	0.0° 0.00 0.00	0.0 0.00 0.0°	0.00 0.0°	0.0° 0.00 0.00	0.0 0.00 0.0°	0.00 0.0°	0.0° 0.00 0.00	0.0 0.00 0.0°	0.00 0.0°	0.0° 0.00 0.00
60°	752.2 9.31 33.5°	4.79	3.6° 1.00 1.00	590.3 12.14 34.0°	6.10	8.3° 1.00 1.00	514.6 14.34 33.8°	7.00	20.3° 1.00 1.00	495.1 15.93 34.7°	7.27	26.1° 0.95 0.88	485.9 17.55 36.4°	7.41	26.3° 0.86 0.85	480.0 19.14 38.0°	7.50	26.3° 0.79 0.83	474.5 22.29 40.6°	7.59	26.4° 0.68 0.82
70°	643.3 9.45 36.2°	5.60	4.3° 1.00 1.00	522.8 12.02 37.0°	6.89	13.2° 1.00 1.00	481.9 13.59 37.3°	7.47	26.4° 1.00 0.91	470.8 15.14 39.9°	7.65	26.8° 0.91 0.84	463.2 16.66 42.2°	7.77	26.9° 0.83 0.85	457.8 18.18 44.2°	7.86	26.9° 0.76 0.86	451.0 21.20 47.4°	7.98	26.9° 0.66 0.88
75°	606.1 9.42 37.5°	5.94	4.7° 1.00 1.00	504.0 11.77 38.7°	7.14	15.4° 1.00 1.00	472.9 13.18 39.7°	7.61	26.8° 1.00 0.88	462.4 14.68 42.7°	7.79	27.0° 0.91 0.85	454.7 16.16 45.3°	7.92	27.0° 0.83 0.87	448.8 17.64 47.4°	8.02	27.1° 0.76 0.89	441.0 20.59 50.9°	8.16	27.1° 0.65 0.94
80°	579.7 9.30 38.9°	6.21	5.1° 1.00 1.00	492.6 11.44 40.6°	7.31	16.6° 1.00 1.00	465.7 12.74 42.3°	7.73	26.9° 1.00 0.88	455.1 14.18 45.6°	7.91	27.1° 0.91 0.88	447.0 15.62 48.4°	8.05	27.2° 0.82 0.91	440.6 17.06 50.8°	8.17	27.3° 0.76 0.95	431.6 19.96 54.6°	8.34	27.3° 0.65 1.00
90°	554.8 8.79 42.4°	6.49	5.3° 1.00 1.00	483.1 10.66 45.7°	7.45	15.2° 1.00 1.00	453.9 11.77 47.6°	7.93	27.1° 1.00 0.96	442.3 13.11 51.6°	8.14	27.4° 0.92 0.97	433.0 14.47 54.9°	8.31	27.5° 0.84 1.00	425.6 15.86 57.8°	8.46	27.6° 0.78 1.00	414.4 18.67 62.3°	8.69	27.8° 0.69 1.00
110°	563.8 7.08 52.1°	6.39	3.8° 1.00 1.00	494.8 8.70 58.4°	7.28	6.2° 1.00 1.00	457.4 10.14 63.7°	7.87	12.1° 1.00 1.00	428.0 11.29 67.2°	8.41	20.2° 1.00 1.00	410.9 12.00 70.0°	8.76	28.2° 0.98 1.00	400.6 13.28 73.8°	8.99	28.4° 0.91 1.00	382.1 15.92 79.4°	9.42	28.6° 0.81 1.00
120°	597.0 5.99 59.4°	6.03	2.9° 1.00 1.00	512.9 7.51 66.0°	7.02	4.0° 1.00 1.00	471.2 8.96 72.6°	7.64	5.7° 1.00 1.00	441.2 10.36 77.6°	8.16	10.5° 1.00 1.00	413.0 11.59 81.0°	8.72	16.8° 1.00 1.00	388.5 12.31 83.3°	9.27	25.6° 1.00 1.00	364.3 14.56 88.9°	9.88	29.0° 0.90 1.00
135°	701.3 4.31 77.7°	5.13	1.6° 1.00 1.00	562.2 5.67 82.0°	6.40	2.3° 1.00 1.00	502.0 7.01 88.8°	7.17	2.9° 1.00 1.00	466.8 8.43 94.8°	7.71	3.6° 1.00 1.00	440.5 9.93 99.6°	8.17	4.6° 1.00 1.00	416.1 11.44 103.0°	8.65	6.6° 1.00 1.00	361.4 14.02 106.6°	9.96	15.8° 1.00 1.00
150°	862.7 3.14 108.3°	4.17	0.7° 1.00 1.00	668.2 4.24 110.6°	5.39	1.1° 1.00 1.00	559.4 5.41 113.5°	6.44	1.5° 1.00 1.00	504.5 6.75 118.1°	7.14	1.9° 1.00 1.00	470.4 8.21 122.3°	7.65	2.3° 1.00 1.00	445.0 9.75 125.5°	8.09	2.8° 1.00 1.00	400.4 12.85 129.6°	8.99	4.1° 1.00 1.00
165°	1029.0 2.73 145.6°	3.50	0.3° 1.00 1.00	779.9 3.68 146.1°	4.62	0.4° 1.00 1.00	639.2 4.72 147.0°	5.63	0.7° 1.00 1.00	551.7 5.86 148.3°	6.53	0.9° 1.00 1.00	502.1 7.22 150.1°	7.17	1.2° 1.00 1.00	469.9 8.71 151.9°	7.66	1.5° 1.00 1.00	423.6 11.85 154.3°	8.50	2.1° 1.00 1.00
180°	1119.2 2.74 180.0°	3.22	0.0° 1.00 1.00	844.4 3.68 180.0°	4.26	0.1° 1.00 1.00	687.4 4.69 180.0°	5.24	0.1° 1.00 1.00	585.1 5.76 180.0°	6.15	0.2° 1.00 1.00	525.3 7.05 180.0°	6.85	0.3° 1.00 1.00	486.8 8.49 180.0°	7.40	0.4° 1.00 1.00	437.9 11.63 180.0°	8.22	0.7° 1.00 1.00

Run VMG	974.8 3.70 89.2°	4.72 141.6°	1.2° 1.00 1.00	765.6 4.75 96.6°	5.85 143.5°	1.5° 1.00 1.00	644.6 5.23 118.6°	6.30 152.5°	1.3° 1.00 1.00	570.7 5.95 142.7°	6.62 162.4°	1.0° 1.00 1.00	519.3 7.12 156.2°	7.09 168.1°	1.0° 1.00 1.00	483.9 8.51 164.9°	7.51 172.0°	1.0° 1.00 1.00	435.7 11.64 167.9°	8.32 173.0°	1.4° 1.00 1.00