

BOAT Name ARCTURUS Sail Nr LTU 1590	GPH 617.9	HULL Length Overall 11.380m Maximum Beam 3.650m Displacement 5,174kg Draft 2.122m IMS Reg. Division Performance Dynamic Allowance 0.015% Fwd Accommodation No Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL Class CATALINA CAPRI 37 Designer CATALINA Builder CATALINA Series 09/1992 Age 09/1993 Age Allowance 0.487% Offset File MoondncF.OFF - 22/06/2009 10:25:02 Measurement by LBS#7 - 07/09/2010		IMSL 9.426m VCGD -0.085m Sink 18.38kg/mm RL 8.652m VCGM -0.086m WS 25.05m² LSMO 9.307m Displacement/Length ratio 6.4180



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SCORING OPTIONS	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Low	Medium	High	Low	Medium	High
Time On Distance	601.2			670.4		
Time On Time	0.9980			1.0069		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	705.4	548.6	486.6	911.8	674.1	583.4
Time on Time	0.9569	1.2303	1.3873	0.7403	1.0013	1.1571

TIME ALLOWANCES	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1041.7	869.5	771.6	717.9	695.8	685.2	669.9
52°	682.0	574.3	524.0	502.2	492.9	488.0	482.6
60°	642.9	546.7	509.0	489.7	477.8	471.6	466.5
75°	610.8	528.5	497.7	477.5	459.6	446.0	435.0
90°	612.0	526.3	489.4	472.6	456.4	438.1	411.1
110°	623.1	522.6	486.2	457.8	434.0	420.6	399.8
120°	642.0	533.3	491.9	463.8	435.9	411.2	382.2
135°	707.1	575.1	511.5	481.8	455.5	429.8	380.9
150°	835.8	667.6	564.8	510.0	482.6	458.4	412.0
Run VMG	965.1	770.9	651.7	577.0	526.2	494.1	447.3

Certificate

Number **LT1590**
ORC Ref **lt00000265**
Issued On **24/07/2017**
VPP Ver. **2017 1.00**
Valid until **31/12/2017**

Crew Weight

Declared **850kg**
Default* **621kg**
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	651.4	0.9211
Non Spin OSN	632.9	0.9481

Selected Courses	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Windward / Leeward	1003.4	820.2	711.7	647.4	611.0	589.6	558.6
Circular Random	848.0	686.4	599.8	549.3	517.7	496.3	467.3
Ocean for PCS	1037.5	804.2	672.5	591.7	538.7	501.1	447.8
Non Spinnaker	906.8	728.5	631.6	574.4	538.5	514.7	483.6

Sails Limitations

Headsails	Spinnakers
5	3

Velocity Prediction in Knots for True Wind Speeds	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	43.0°	42.0°	41.8°	40.2°	39.1°	38.5°	37.8°
Beat VMG	3.46	4.14	4.67	5.01	5.17	5.25	5.37
52°	5.28	6.27	6.87	7.17	7.30	7.38	7.46
60°	5.60	6.59	7.07	7.35	7.53	7.63	7.72
75°	5.89	6.81	7.23	7.54	7.83	8.07	8.28
90°	5.88	6.84	7.36	7.62	7.89	8.22	8.76
110°	5.78	6.89	7.40	7.86	8.30	8.56	9.01
120°	5.61	6.75	7.32	7.76	8.26	8.75	9.42
135°	5.09	6.26	7.04	7.47	7.90	8.38	9.45
150°	4.31	5.39	6.37	7.06	7.46	7.85	8.74
Run VMG	3.73	4.67	5.52	6.24	6.84	7.29	8.05
Gybe Angles	145.4°	149.4°	150.6°	158.4°	180.0°	180.0°	180.0°

Class Division Length

CDL = **9.040**

Storm Sails Areas

Heavy Weather Jib **31.48**
Storm Jib (JL=9.93) **11.66**
Storm Trysail **10.49**

Owner

BOAT	
Name ARCTURUS	Sail Nr LTU 1590
File Arcturus LTU1590	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date		SG 1.0000	
FFM 1.037	FF 1.054	SFFP 0.799	
FAM 0.927	FA 0.936	SAFP 10.050	
W1 72.0	PD1 131.0	WD 9.120	
W2 72.0	PD2 129.0	GSA 530.9	
W3 104.0	PD3 174.0	RSA 530.9	
W4 104.0	PD4 176.0	PLM 2500.0	
LCF from stem on CL / on sheer		5.992 / 6.255	
Maximum beam station from stem		6.261	
RM Measured		141.9kg·m	
RM Default		129.8kg·m	
Limit of positive stability / Stab.Index		115.7° / 114.1	
Freeboard at mast at 4.335		0.940	

RIG			
Forestay Tension Aft	Spreaders 2		
Inner Stay None Fitted	Runners 0		
Carbon Mast No	Jumper Struts None		
Taper Hollows No	Jib Furler No		
Fiber Rigging No	Main Furler No		
Lenticular Rigging No	Without Backstay No		
Articulated Bowsprit No			
P 13.850	E 4.330	MDT1 0.125	MW 0.190
IG 15.270	J 4.335	MDL1 0.190	GO 0.190
ISP 15.270	SFJ	MDT2 0.125	BD 0.165
BAS 1.550	SPL 4.620	MDL2 0.150	MWT 196.00
FSP 0.070	TPS	TL 5.000	MCG 5.400

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Shaft exposed	PRD 0.408		
Type Folding 2 blades	PBW 0.110		
Twin Screw No	PIPA 0.0036		
PSA 16.000	PHL 0.155	ST3 0.120	ESL 1.152
PSD 0.027	ST1 0.024	ST4 0.058	
PHD 0.046	ST2 0.104	ST5 0.232	


COMMENTS	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.900	1.34	1.93	2.88	3.66	38.25	38.98	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	111.57		SL · (SFL + 4·SHW) / 6	
Asymmetric	SLU	SLE	SL	SHW	SFL	105.05		AS · (SFL + 4·SHW) / 6	
	15.63	15.63	15.63	8.65	8.23				
	15.80	14.38	15.09	8.41	8.13				

HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0.12	0.81	1.48	2.62	3.59	4.39	15.42	37.91	Y		12/06/2016	Unknow	
	0.85	1.43	2.54	3.50	4.36	15.12	36.43				Unknow	
	0.64	1.20	2.30	3.37	4.32	15.00	33.86				Unknow	
					3.60	13.54	24.81	Y		25/07/2015	Unknow	




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IMS Measurement Certificate

Certificate

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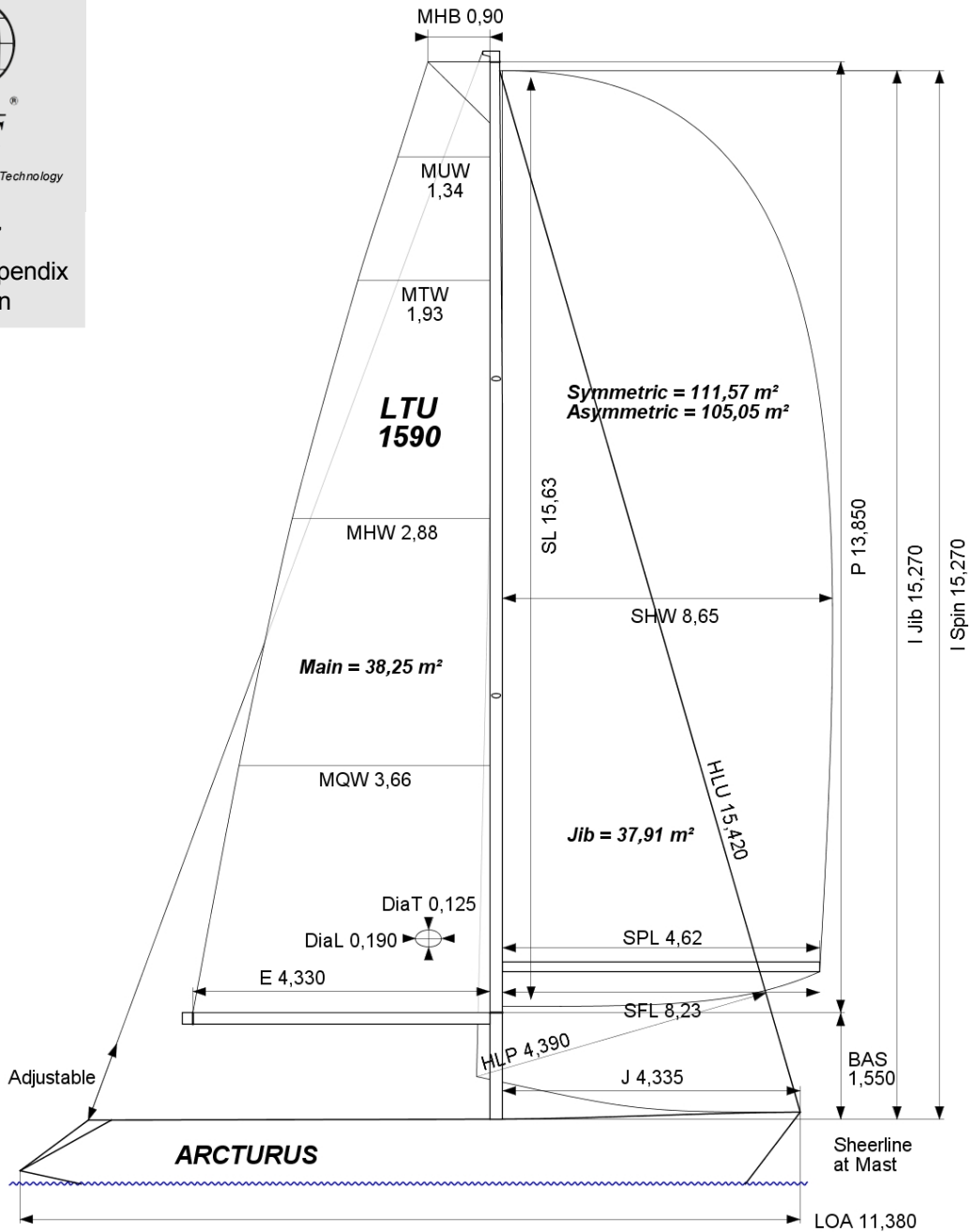


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Sail Plan



SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
M2	0.900	1.34	1.93	2.88	3.66	38.25	NS	09/01/2014	NS	Unknown						
HEADSAILS (4)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
G1	0.12	0.81	1.48	2.62	3.59	4.39	15.42	101%	37.91	Y		LBS#6	12/06/2016	NS	Unknown	
J3		0.85	1.43	2.54	3.50	4.36	15.12	101%	36.43			NS		NS	Unknown	
HJ		0.64	1.20	2.30	3.37	4.32	15.00	100%	33.86			NS		NS	Unknown	
GF						3.60	13.54	83%	24.81		Y	LBS#6	25/07/2015		Unknown	
SYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
S6	15.63	15.63	15.63	8.65	8.23	111.57	EST	08/06/2011		Unknown						
S5	15.55	15.55	15.55	8.13	7.94	104.86		20/06/2013	NS	Nylon						
ASYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
A	15.80	14.38	15.09	8.41	8.13	105.05	asym	NS		NS	Unknown					