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2020
Club
Double Handed

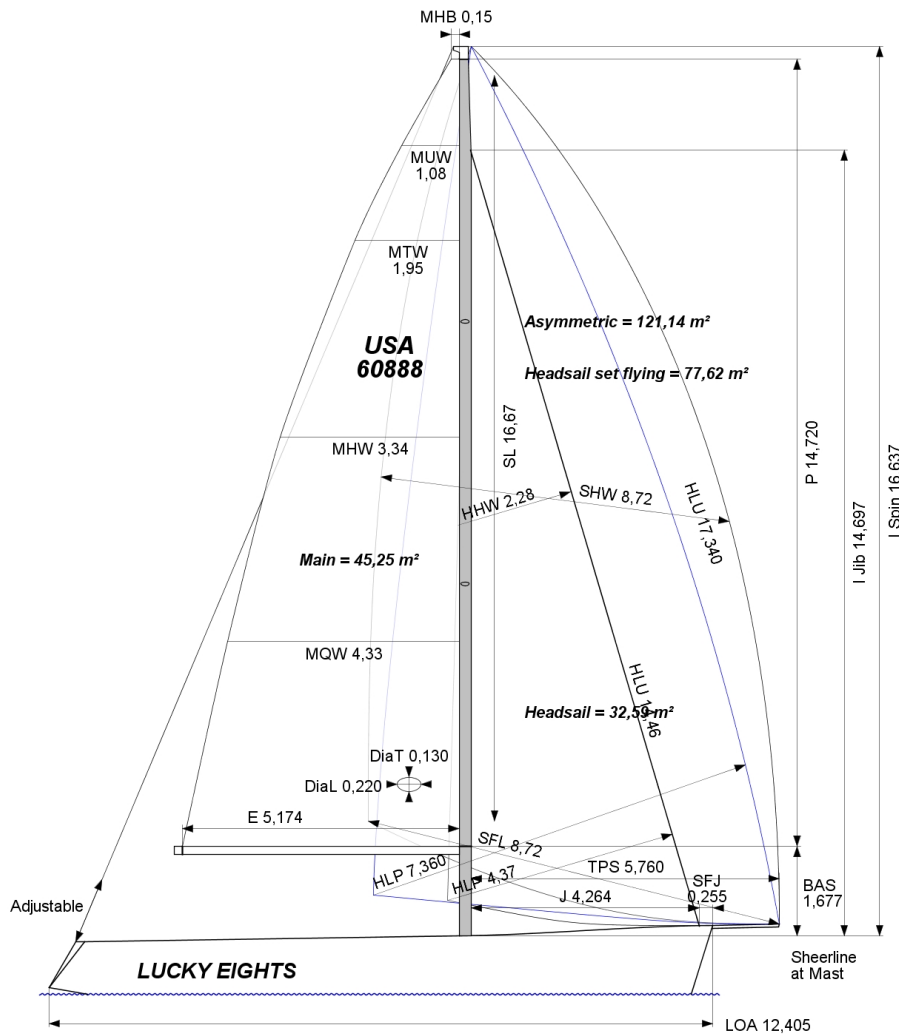
Rating Office

**Offshore
Racing
Congress**

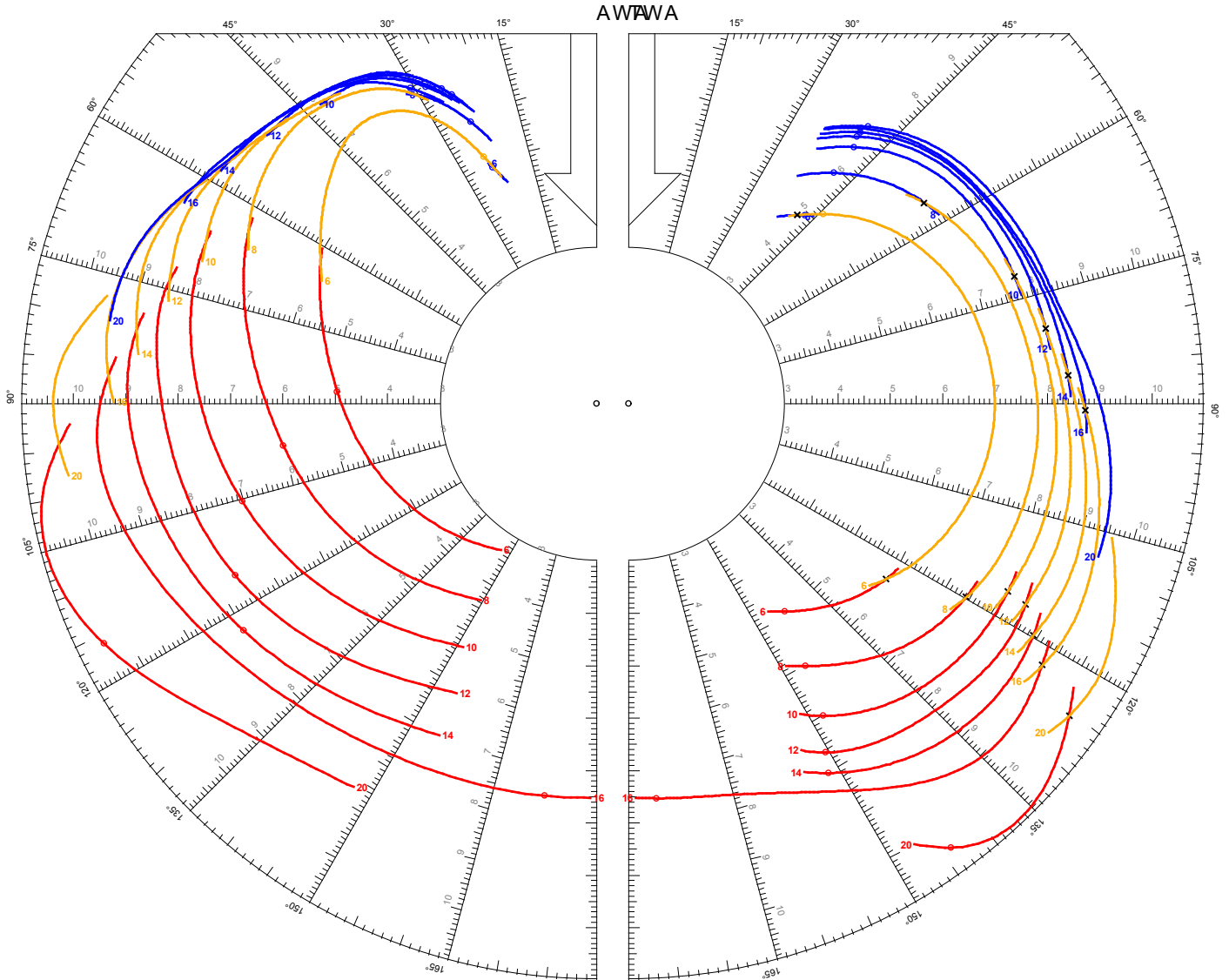


Certificate

Number **US6270**
Issued On **14/09/2020**
ORC Ref **03410000QA7**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**



BOAT Name LUCKY EIGHTS Sail Nr USA 60888		GPH 582.3	HULL Data File US6270 DH LOA 12.405m Offset File J124.OFF MB 3.475m Displacement 5,698kg Draft 2.102m		Crew Weight Default 170kg Maximum 170kg Non Manual Pwr No	
CLASS Class J-124 Designer JOHNSTONE Builder TPI Series 11/2005 Age Date 01/2006 Age Allowance 0.487%			IMS Division Cruiser/Racer Dynamic All. 0.189% Fiber Rigging No Construction Cored Crew Arm Ex 0.00 Aramid Core No Carbon Rudder No Light Stanchions No		Sails Limitations Headsails 6 Spinnakers 4 Asymmetric on centerline Spinnaker configuration Symmetric: No Asymmetric: Yes 121.14 Flying H/S: Yes 77.61 Spin. Pole: No	
COMMENTS			IMSL 11.495m VCGD 0.100m Sink 21.77kg/mm RL 8.806m VCGM -0.054m WS 28.80m² LSM0 11.414m Displacement/Length ratio 3.8319		Stability (Estimated) Limit Positive Stab.: 116.1° Stability Index: 118.7	
PROPELLER Installation Strut PRD 0.457 Type Folding 2 blades PBW 0.102 PIPA 0.0038		CENTERBOARD N/A		Owner		
SCORING OPTIONS						
	Time on Distance	Time on Time				
Coastal or Long Distance	572.2	1.0487				
Circular Random	582.3	1.0304				
Predominantly Upwind	572.3	1.0485				
Predominantly Downwind	521.9	1.1497				



Polar Plot for Boat	
Name	LUCKY EIGHTS
Sail Number	USA 60888
Class	J-124
Designer	JOHNSTONE
Builder	TPI
Issued On	14/09/2020 - VPP 2020 1.02

2020

Double Handed Certificate Appendix

BOAT			
Name	LUCKY EIGHTS	Certificate Number	US6270
Sail Nr	USA 60888	Issued On	14/09/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1005.2	825.5	741.4	711.6	699.8	688.8	683.0
52°	636.0	546.5	498.0	483.6	477.8	474.7	467.1
60°	583.1	513.4	479.0	466.4	461.1	458.7	451.0
75°	531.5	477.9	461.4	449.2	440.6	435.8	431.6
90°	517.1	462.8	444.4	433.2	423.3	414.8	401.3
110°	546.1	469.5	441.5	419.9	399.7	384.6	365.5
120°	583.3	487.4	448.3	423.5	405.9	383.9	348.5
135°	664.1	532.2	466.8	436.9	408.3	379.5	332.6
150°	790.2	625.7	525.9	470.7	445.4	424.4	369.7
Run VMG	912.5	722.5	607.3	543.5	513.5	480.4	426.9
Selected Courses							
Windward / Leeward	958.8	774.0	674.3	627.5	606.6	584.6	555.0
Circular Random	790.8	642.9	565.4	521.7	495.3	477.4	452.1
Coastal / Long Distance	954.2	723.7	605.1	542.4	510.6	480.2	428.1
Non Spinnaker	886.4	706.8	609.7	553.0	518.2	495.3	466.7

Velocity Prediction in Knots for True Wind Speeds							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	45.8°	41.6°	41.3°	40.5°	40.5°	40.1°	40.9°
Beat VMG	3.58	4.36	4.86	5.06	5.14	5.23	5.27
52°	5.66	6.59	7.23	7.44	7.54	7.58	7.71
60°	6.17	7.01	7.52	7.72	7.81	7.85	7.98
75°	6.77	7.53	7.80	8.01	8.17	8.26	8.34
90°	6.96	7.78	8.10	8.31	8.50	8.68	8.97
110°	6.59	7.67	8.15	8.57	9.01	9.36	9.85
120°	6.17	7.39	8.03	8.50	8.87	9.38	10.33
135°	5.42	6.76	7.71	8.24	8.82	9.49	10.82
150°	4.56	5.75	6.85	7.65	8.08	8.48	9.74
Run VMG	3.95	4.98	5.93	6.62	7.01	7.49	8.43
Gybe Angles	143.0°	146.0°	148.0°	150.5°	151.5°	176.0°	144.0°