

IMS RA™ CERTIFICATE No. 10289
 Based FULL MEASUREMENT (ft/lbs)
 NOT VALID AFTER 12/1984

IMS AMENDED TO JANUARY 1996 VFP: 26/JAN/96 00:02:01
 Cert No 10289 US10289.DAT 04/JAN/96 26:50
 OFF Meas'd: 11/MAY/93 US120.OFF 12/MAY/93 19:44

NAME: PRADEL
 Sail No: US-12389
 Class: C&C35
 LOA: 34.63ft Beam(MB) 10.66ft
 Designer: C&C
 Builder: HINTERHOELLER
 Rig: MASTHEAD SLOOP 166ft Jib
 Keel/CB: FIXED KEEL
 PropInst: EXPOSED FOLDING
 FwdAccom: NO
 HullChst: LIGHT
 Forestay: ADJUST AFT
 Spreaders: 4 Sets
 Runners: 2 Sets
 Dates: AGE: 0/0

SCM 0.000 CBRC 0.000 CBMC 0.000 CBIC 0.000
 WCBA 0.0 CBDA 0.000 KCDA 0.000 ECE 0.000
 WCBB 0.0 CBDB 0.000 ENDPLATE ADJ (KEDA) 0.000
 PRD 1.030 PHD 0.140 EHL 0.470
 PSL 1.250 SHD 0.140 SHL 0.290
 PSA 19.000 PSD 0.070 PIPA 0.0298

Rating Office:
 Issued: 26/JAN/96 U.S. SAILING
 Measured: BOX 209
 05/JUN/84 NEWPORT, RI 02840
 Revalidation Authority: US SAILING
 Measurer: SMITH
 *I CERTIFY THAT I UNDERSTAND MY
 RESPONSIBILITIES UNDER THE IMS.*
 OWNER: MR RICHARD A KINDER
 114 BUCH AVE
 LANCASTER, PA 17601

FFM 4.075 FFPS 3.950 SFPF 2.130 SG 0.000
 PAM 2.700 AFPS 2.800 SAPP 33.480 PL 2000.000
 AW 46.000 APD 38.000 AND 20.410 RM 863.5
 BW 84.500 BPD 70.000 BMD 20.410 RMC 863.5
 CW 46.000 CPD 38.000 CWD 20.410
 DW 84.500 DPD 70.000 DWD 20.410 SMB 20.689
 RM90 864.4 RM20 775.7 RM40 598.4 RM60 384.2
 137.4 CREW ARM (CRA) 4.093

COMMENTS: FUEL TANK PRESSED UP AT TIME OF MEASUREMENT, WATER TANK EMPTY
 LIMITS AND REGULATIONS
 Limit of Positive Stability: MEETS REQ Measurement Inventory: NOT REQ'D
 Minimum Displacement: 5028lb: MEETS REQ Accommodation Length: 34.63ft
 Maximum Crew Weight: 1404 lbs Accom Certificate: NONE FILED
 Stability Index: 114.8 Plan Approval: NONE FILED

CALCULATED LIMIT OF POSITIVE STABILITY: 112.0 DEGREES
 RATIO STABILITY CURVE AREAS, POSITIVE/NEGATIVE 2.278
 HYDROSTATICS MEASUREMENT TRIM--SAILING TRIM--
 KEEL DRAFT (DHKA) 5.197 (DHKA) 5.379
 2ND MOMENT LENGTH (LSM0) 27.372 (LSM1) 28.469
 DISPLACEMENT (WEIGHT) (DSPH) (1663) (DSPS) 13292
 WETTED SURFACE (WSM) 244.29 (WSS) 257.05
 VCG FROM OFFSETS DATUM (FOR CLUB RM) (VCGD) -0.130
 VCG FROM MEASUREMENT TRIM WATERLINE (VCGM) -0.130
 INTEGRATED BEAM ATTENUATED WITH DEPTH (BI) 9.565
 MAXIMUM SECTION AREA (AMS1) 14.011
 BEAM/DEPTH RATIO (BTR) 4.399
 EFFECTIVE DRAFT (D) 4.459
 2° HEEL (LSM2) 28.470 25° HEEL (LSM3) 28.229
 SUNK (LSM4) 32.409 AVG LENGTH (L) 28.538
 TRIM: .01ft/147.191ft-lb SINK: .01ft/114.934lb

NOTE TO OWNER: The range available to revise crew weight is 913-1685 lb.

TIME ALLOWANCES IN SEC/MI BY TRUE WIND VELOCITY & ANGLE

Wind Velocity:	6kt	8kt	10kt	12kt	14kt	16kt	20kt	CHECKSUM
BEAT ANGLES:	49.1°	47.1°	45.4°	44.4°	43.7°	43.4°	44.0°	(317.1)
BEAT VMG:	1197.0	991.7	895.7	845.0	817.0	802.6	798.6	(6347.6)
52°:	744.0	625.2	575.0	551.2	538.9	532.3	527.2	(4091.8)
R 60°:	675.7	578.6	541.8	525.4	515.9	510.0	503.6	(3851.0)
E 75°:	625.2	546.6	515.8	498.7	488.9	482.1	473.0	(3630.3)
A 90°:	614.5	536.1	508.6	492.2	476.4	464.1	450.3	(3542.6)
C 110°:	620.8	538.0	503.5	480.4	463.7	452.4	435.9	(3494.7)
H 120°:	653.3	553.8	511.6	484.3	462.2	444.2	420.6	(3530.0)
135°:	747.1	606.0	538.7	504.9	479.3	456.3	418.5	(4180.2)
150°:	895.0	709.0	602.8	542.0	508.6	483.3	439.5	(4180.2)
RUN VMG:	1033.4	818.7	695.5	608.9	553.1	518.5	470.7	(4698.8)
GYBE ANGLES:	142.3°	145.6°	152.6°	163.7°	170.0°	173.6°	174.1°	(1121.9)

NOTE: To convert any time allowance above to speed in knots: Kt = 3600/TA

WIND-AVERAGED TIME ALLOWANCES FOR SELECTED COURSES

Windward VMG	1322.4	1074.9	946.2	875.6	836.5	815.6	801.5	(6672.7)
Leeward VMG	1089.1	850.8	713.7	626.5	567.9	526.7	471.8	(4846.5)
Olympic 6-leg	1147.2	924.4	805.3	716.7	663.5	640.8	(5619.2)	
Circular Podm	917.5	744.6	653.1	600.7	568.9	548.5	(4557.2)	
Non-Spinnaker	1002.4	804.0	696.4	633.2	594.3	569.4	(4840.4)	
Ocean for PCS	1058.5	828.8	699.0	618.6	565.1	527.2	(4772.4)	

SAIL AREA: MAIN + FORETRIANGLE * MIZZEN (SA) 611.92
 MAIN: 289.3 SPIN; 1091.3 GENOA: 562.7 MIZEN: 0.0
 FORETRIANGLE MAIN MIZZEN
 IG 44.374 SPL 14.500 HB 0.500 TE 0.000
 MW 0.000 J 14.540 MGT 0.00 MDT1 0.370
 GO 0.000 LPG 23.90 MGU 4.40 MDL1 0.660
 ISP 0.000 PSP 0.200 MGM 7.40 MDT2 0.370
 IM 44.374 LP 24.10 MGL 0.00 MDL2 0.660
 HBI 2.805 SFJ 0.000 MSW 0.00 BATX 0.000
 MYSL 44.36 MXSMW 26.17 P 38.000 BL1 2.300
 SL 43.90 SMW 26.10 E 13.000 BL2 2.300
 SPS 10.540 BAL 0.500 BAS 4.844 BL3 2.500
 LPTS 0.00 BD 0.230 BLP 7.30 BL4 2.500
 CPW 0.000 MWT 0.00 MCG 0.000 BL5 0.000

IV 0.000 PY 0.000 BY1 0.000 MDTIV 0.000
 EB 0.000 EY 0.000 BY2 0.000 MDTIV 0.000
 YSD 0.000 BAY 0.000 BY3 0.000 MDT2V 0.000
 YSF 0.000 BAY1 0.000 BY4 0.000 MDT2V 0.000
 YSMG 0.000 BAY 0.000 BY5 0.000 TLY 0.000
 HBIV 0.000 HBY 0.000 MGY 0.000 MGY 0.000
 ILC WEIGHTED AVERAGE: 768.9

NORMAL CONFIGURATION

ATT I