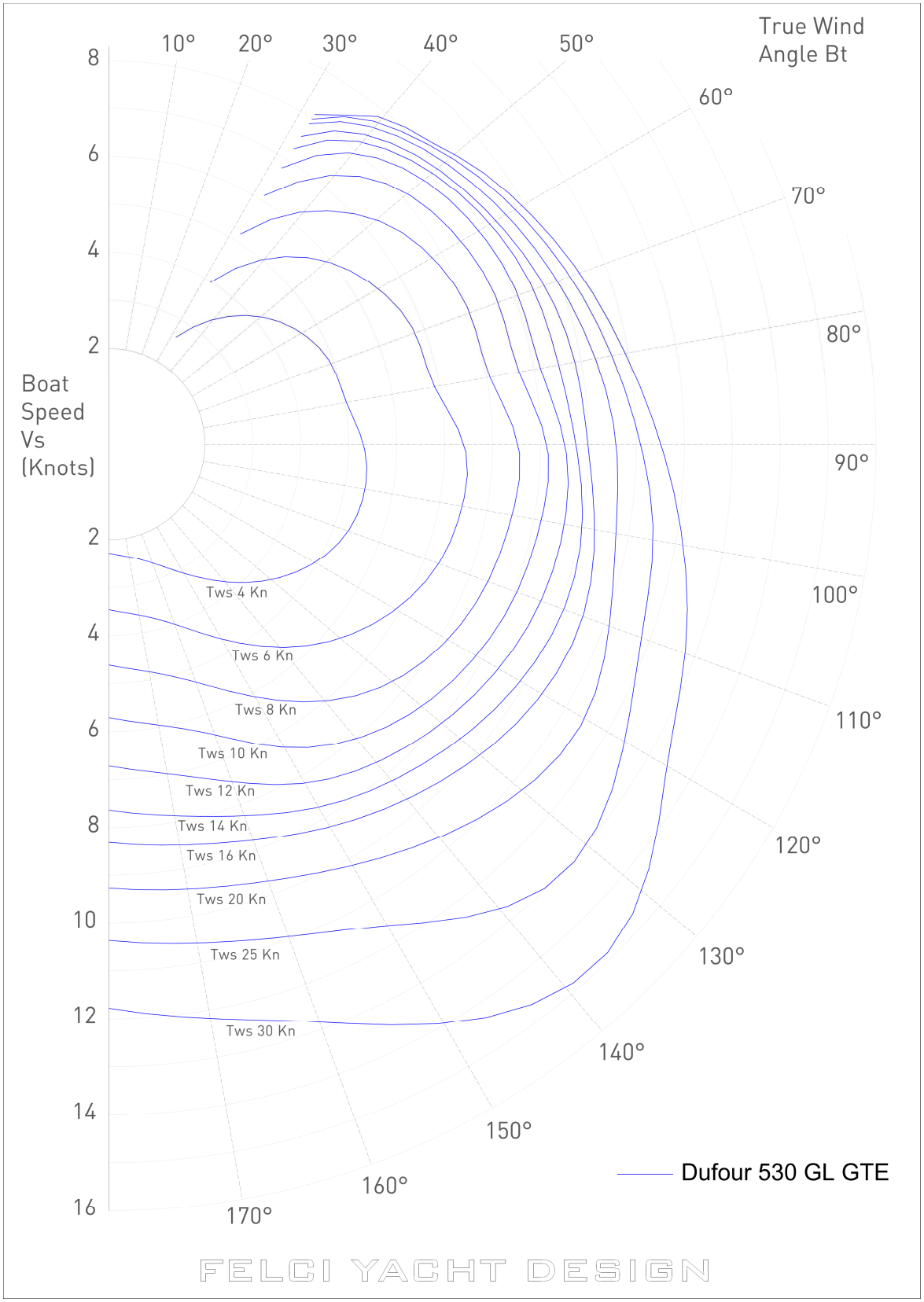
FELCI YACHTDESIGN

Dufour 530 GL
GTE

VELOCITY PREDICTION PROGRAM ANALISYS


True Wind Angle Bt
10°
20°
30°
40°
50°
60°
70°
80°
90°
100°
110°
120°
130°
140°
150°
160°
170°
Boat Speed Vs (Knots)
2
4
6
8
10
12
14
16
Tws 4 Kn
Tws 6 Kn
Tws 8 Kn
Tws 10 Kn
Tws 12 Kn
Tws 14 Kn
Tws 16 Kn
Tws 20 Kn
Tws 25 Kn
Tws 30 Kn
Dufour 530 GL GTE
FELCI YACHT DESIGN

Best Boatspeeds (kt)

	4	6	8	10	12	14	16	20	25	30
32.0	2.63	3.98	5.17	6.11	6.79	7.26	7.57	7.87	7.99	8.10
36.0	3.04	4.56	5.81	6.78	7.46	7.84	8.07	8.31	8.43	8.47
40.0	3.40	5.04	6.33	7.33	7.92	8.22	8.41	8.61	8.75	8.89
45.0	3.79	5.53	6.85	7.81	8.31	8.55	8.71	8.90	9.03	9.12
52.0	4.25	6.06	7.42	8.21	8.65	8.89	9.02	9.23	9.41	9.53
60.0	4.64	6.48	7.79	8.47	8.90	9.18	9.32	9.57	9.79	9.95
70.0	4.93	6.79	8.01	8.64	9.08	9.42	9.66	9.95	10.23	10.45
80.0	5.03	6.90	8.07	8.68	9.14	9.53	9.87	10.30	10.65	10.94
90.0	5.31	7.41	8.54	9.13	9.51	9.74	9.99	10.58	11.09	11.52
100.0	5.42	7.48	8.54	9.16	9.65	10.02	10.29	10.74	11.53	12.16
110.0	5.31	7.32	8.41	9.05	9.59	10.10	10.52	11.11	11.82	12.79
120.0	4.96	6.91	8.16	8.84	9.38	9.91	10.43	11.46	12.42	13.44
135.0	4.10	5.94	7.40	8.30	8.88	9.37	9.89	10.99	13.01	14.85
150.0	3.12	4.70	6.10	7.31	8.17	8.75	9.22	10.16	11.61	13.97
160.0	2.65	4.00	5.29	6.45	7.50	8.25	8.79	9.71	10.95	12.84
170.0	2.40	3.63	4.83	5.95	6.99	7.87	8.50	9.44	10.59	12.18
180.0	2.28	3.46	4.62	5.71	6.72	7.63	8.31	9.27	10.37	11.78
Up.Vs	3.88	5.45	6.59	7.41	7.78	7.94	8.05	8.18	8.32	8.42
Up.Bt	46.2	44.2	42.4	40.7	38.6	36.9	35.8	34.7	34.8	35.4
Up.Vmg	2.69	3.91	4.87	5.62	6.08	6.35	6.53	6.73	6.83	6.86
Dn.Vs	4.04	5.60	6.74	7.46	7.93	8.05	8.47	9.37	10.53	14.03
Dn.Bt	135.8	139.1	142.6	148.2	153.8	164.7	171.4	173.6	172.4	149.6
Dn.Vmg	2.90	4.23	5.35	6.34	7.12	7.77	8.37	9.31	10.44	12.10

Times for 1 nm (secs)

	4	6	8	10	12	14	16	20	25	30
32.0	1367.2	904.0	696.9	589.0	530.2	495.5	475.9	457.3	450.8	-
36.0	1185.2	789.7	619.9	531.1	482.7	459.0	445.9	433.4	426.9	424.9
40.0	1059.0	714.5	568.9	491.3	454.4	437.9	428.3	418.1	411.5	-
45.0	948.7	650.4	525.2	461.0	433.4	421.0	413.4	404.3	398.6	394.8
52.0	846.2	593.8	485.5	438.3	416.0	405.1	399.1	390.0	382.5	377.8
60.0	775.7	555.3	462.3	424.8	404.3	392.1	386.3	376.3	367.8	361.8
70.0	730.5	529.9	449.5	416.7	396.5	382.0	372.5	361.7	351.7	344.6
80.0	715.8	522.1	446.1	414.5	394.0	377.9	364.7	349.4	338.0	329.2
90.0	678.1	486.0	421.7	394.1	378.5	369.5	360.4	340.2	324.6	312.6
100.0	663.8	481.2	421.6	393.2	373.2	359.2	350.0	335.3	312.3	296.0
110.0	678.0	491.9	428.0	397.6	375.4	356.5	342.1	324.2	304.6	281.4
120.0	726.1	521.2	441.3	407.1	383.7	363.4	345.1	314.2	289.9	267.9
135.0	878.9	606.3	486.6	434.0	405.6	384.0	364.0	327.5	276.8	242.4
150.0	1152.4	766.3	590.6	492.5	440.6	411.6	390.5	354.4	309.9	257.7
160.0	1360.2	899.8	680.5	557.8	480.2	436.4	409.4	370.8	328.8	280.3
170.0	1502.8	992.6	745.5	604.9	515.4	457.4	423.6	381.6	340.0	295.7
180.0	1576.3	1040.2	779.8	630.8	535.9	471.5	433.1	388.5	347.0	305.6
Up	1340.6	920.9	739.4	641.0	592.0	566.8	551.1	535.0	527.1	525.0
Dn	1242.5	850.3	672.4	567.8	505.8	463.5	430.0	386.8	344.9	297.6

Best Apparent Wind Speed

	4	6	8	10	12	14	16	20	25	30
32.0	6.4	9.6	12.7	15.5	18.0	20.4	22.6	26.7	31.6	-
36.0	6.7	10.1	13.1	15.9	18.4	20.7	22.8	26.8	31.7	36.5
40.0	7.0	10.4	13.5	16.2	18.6	20.7	22.8	26.7	31.6	-
45.0	7.2	10.7	13.7	16.4	18.6	20.6	22.6	26.5	31.3	36.1
52.0	7.4	10.8	13.8	16.3	18.4	20.3	22.2	26.1	30.8	35.6
60.0	7.5	10.8	13.6	15.9	18.0	19.8	21.5	25.4	30.0	34.7
70.0	7.3	10.5	13.1	15.2	17.2	19.0	20.7	24.3	28.9	33.4
80.0	6.9	9.9	12.3	14.3	16.2	18.0	19.8	22.8	27.4	31.9
90.0	6.6	9.5	11.6	13.3	14.8	16.3	18.1	21.9	25.9	30.3
100.0	6.2	8.7	10.6	12.2	13.7	15.1	16.6	19.9	24.5	28.4
110.0	5.4	7.7	9.4	10.9	12.4	13.9	15.2	18.1	22.3	27.0
120.0	4.6	6.5	8.1	9.4	10.9	12.3	13.8	16.6	20.3	24.3
135.0	3.1	4.6	5.9	7.2	8.5	9.9	11.3	14.3	17.8	20.7
150.0	2.0	3.0	4.1	5.2	6.4	7.8	9.2	12.3	16.0	19.0
160.0	1.8	2.6	3.5	4.5	5.6	6.9	8.3	11.4	15.2	18.4
170.0	1.7	2.5	3.4	4.3	5.3	6.4	7.8	10.8	14.7	18.1
180.0	1.7	2.5	3.4	4.3	5.3	6.4	7.7	10.7	14.6	18.2
Up	7.2	10.6	13.6	16.3	18.6	20.7	22.8	26.7	31.7	36.5
Dn	3.0	4.1	4.9	5.4	6.0	6.6	7.7	10.7	14.6	19.1

Best Apparent Wind Angle

	4	6	8	10	12	14	16	20	25	30
32.0	19.4	19.3	19.4	19.7	20.1	20.5	21.0	21.9	23.1	-
36.0	20.5	20.5	20.8	21.3	21.7	22.3	23.0	24.3	25.7	26.8
40.0	21.7	21.8	22.3	22.8	23.4	24.3	25.2	26.8	28.4	-
45.0	23.1	23.5	24.1	25.0	25.9	27.0	28.0	29.9	31.9	33.3
52.0	25.1	25.8	26.9	28.3	29.6	30.8	32.2	34.5	36.7	38.4
60.0	27.5	28.7	30.2	32.3	34.1	35.4	36.7	39.7	42.3	44.3
70.0	30.8	32.5	34.8	37.6	40.0	41.8	43.2	46.4	49.5	51.9
80.0	34.5	36.7	39.7	43.2	46.1	48.5	50.3	52.9	56.9	59.7
90.0	37.0	38.9	42.7	46.7	49.9	53.3	56.4	61.1	64.6	67.6
100.0	39.8	42.4	47.5	52.5	56.5	59.7	63.1	68.5	72.9	75.8
110.0	43.6	47.0	52.8	58.8	63.7	67.4	70.6	76.3	81.4	84.5
120.0	49.5	53.1	59.0	66.0	71.8	76.3	79.8	84.8	90.0	93.5
135.0	65.9	68.2	72.9	80.2	87.4	93.0	97.2	102.6	105.1	107.5
150.0	99.7	99.4	101.8	105.1	110.3	115.8	120.1	125.6	128.9	129.0
160.0	129.1	128.6	129.1	130.7	132.6	135.7	138.8	143.0	145.7	146.3
170.0	155.8	155.5	155.5	156.0	156.7	157.7	159.1	161.3	162.8	163.3
180.0	180.0	180.0	180.0	180.0	180.0	180.0	180.0	180.0	180.0	180.0
Up	23.5	23.1	23.2	23.1	22.8	22.8	22.9	23.5	24.9	26.4
Dn	67.2	74.7	85.5	101.2	118.2	145.9	162.0	168.1	166.9	128.2