

Calculations of Displacement &c. of the Composite Tea Clipper "Cutty Sark", built at Dumbarton by Messrs Scott & Linton in 1869, under the Special Survey of the Surveyors to Lloyd's Register of Shipping, and Classed + 16 A1.

THESE CALCULATIONS HAVE BEEN MADE FROM THE LINES OF THE VESSEL CONSTRUCTED FROM MEASUREMENTS AND PARTICULARS OF THE VESSEL OBTAINED WHILE IN DRY DOCK AT THE "UNION DOCKS" OF MESSRS FLETCHER, SON & FARNELL, LIMITED, LIMEHOUSE, LONDON, JANUARY 1922.

This paper of calculations is the property of the Committee of Lloyd's Register of Shipping, London.

No. of Sections. Multiplier	Keel.								Vertical Sections.			
	1	4	2	4	1	4	2	4	Areas.	Functions	Mult.	Moments.
Spec. 1	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4		
1 4	.7	2.8	1.0	4.0	1.5	6.0	2.3	9.2	3.4	13.6	20.3	81.2
2 2	.7	1.4	2.2	4.4	3.6	7.2	5.2	10.4	6.7	13.4	44.2	88.4
3 4	.7	2.8	3.5	14.0	6.2	24.8	8.2	32.8	9.7	38.8	69.6	278.4
4 2	.7	1.4	5.2	10.4	8.9	17.8	11.1	22.2	12.4	24.8	96.1	192.2
5 4	.7	2.8	7.0	28.0	11.4	45.6	13.5	54.0	14.4	57.6	119.9	479.6
6 2	.7	1.4	8.7	17.4	13.7	27.4	15.4	30.8	16.0	32.0	140.5	281.0
7 4	.7	2.8	10.3	41.2	15.3	61.2	16.6	66.4	16.8	67.2	155.7	622.8
8 2	.7	1.4	11.4	22.8	16.4	32.8	17.3	34.6	17.3	34.6	165.6	331.2
9 4	.7	2.8	12.3	49.2	17.1	68.4	17.7	70.8	17.5	70.0	172.4	689.6
10 2	.7	1.4	12.7	25.4	17.4	34.8	18.0	36.0	17.7	35.4	176.0	352.0
11 4	.7	2.8	12.6	50.4	17.3	69.2	18.0	72.0	17.7	70.8	175.4	701.6
12 2	.7	1.4	11.8	23.6	16.8	33.6	17.8	35.6	17.6	35.2	170.3	340.6
13 4	.7	2.8	10.4	41.6	15.8	63.2	17.4	69.6	17.4	69.6	160.9	643.6
14 2	.7	1.4	8.7	17.4	14.3	28.6	16.6	33.2	17.0	34.0	147.5	295.0
15 4	.7	2.8	7.0	28.0	12.2	48.8	15.2	60.8	16.4	65.6	130.3	521.2
16 2	.7	1.4	5.1	10.2	9.7	19.4	13.2	26.4	15.2	30.4	108.5	217.0
17 4	.7	2.8	3.4	13.6	6.8	27.2	10.4	41.6	13.4	53.6	82.9	331.6
18 2	.7	1.4	2.0	4.0	4.1	8.2	6.9	13.8	10.5	21.0	55.0	110.0
19 4	.7	2.8	1.0	4.0	1.9	7.6	3.3	13.2	6.3	25.2	28.0	112.0
20 2	.7	1.4	4.0	3.8	3.8	13.2	6.3	13.2	6.3	13.2	28.0	112.0

6675.4 / 10550.4 = 1.58
 47
 1106
 632 = 7.426 = Cen. of Buoy below L.W.L.

203.6 = Length of Keel.
 1.3
 6108
 2036 = 264.68 = Disp^o of Keel in tons.

176.0
 4.7
 12320
 7040 = 3727.20 = Area of Mid. Sec.

793.7
 10.5
 39685
 79370
 3/8383.85 = 2777.95 = Disp^o in tons per inch at L.W.L.

632.3
 10.5
 31615
 6323 = 3/6639.15 = 2213.65 = Disp^o in tons per inch at 2nd. W.L.

41.1 x 1 = 41.1
 206.3 x 4 = 825.2
 410.1 x 1 = 410.1
 1276.4
 2.35
 63820
 38292
 25528 = 3/2999.540 = 999.846 = Disp^o at 3rd. W.L.

41.1 x 1 = 41.1
 410.1 x 4 = 1640.4
 632.3 x 1 = 632.3
 2313.8
 4.7
 161966
 92522 = 3/1087426 = 3624953 = Disp^o at 2nd. W.L.

73498.03 = 4.51 Coeff. of Disp^o
 212 x 36 x 20 = W.L. B. D.
 552.896 = .767 Coeff. of Mid. Sec.
 36.20 = Area of L.M.L.
 5555.9 = 7.40 Coeff. of L.W.L.
 212 x 354