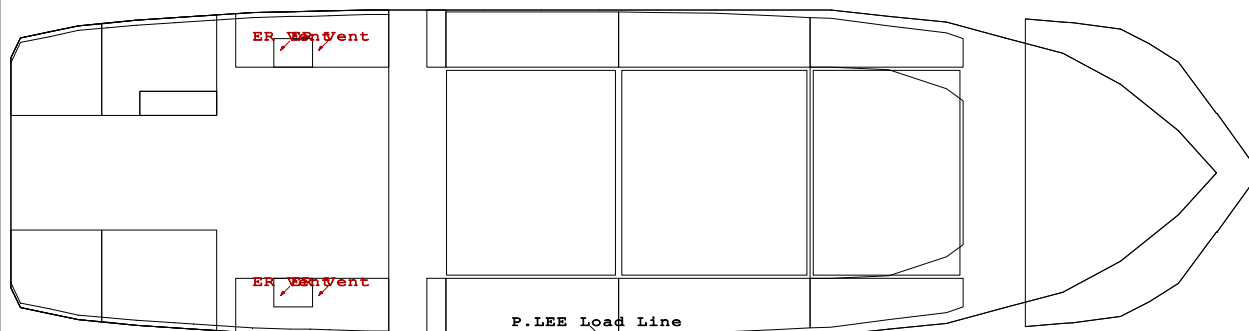
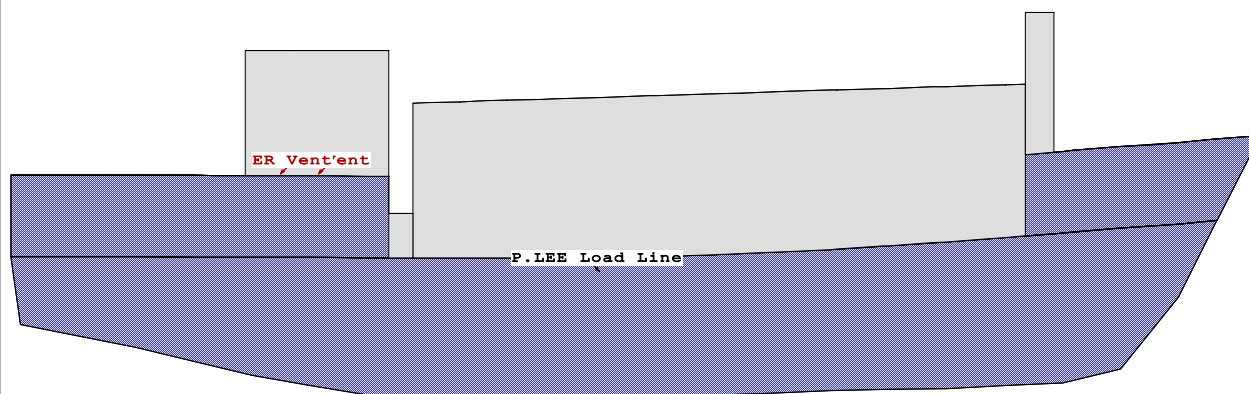


Condition Graphic

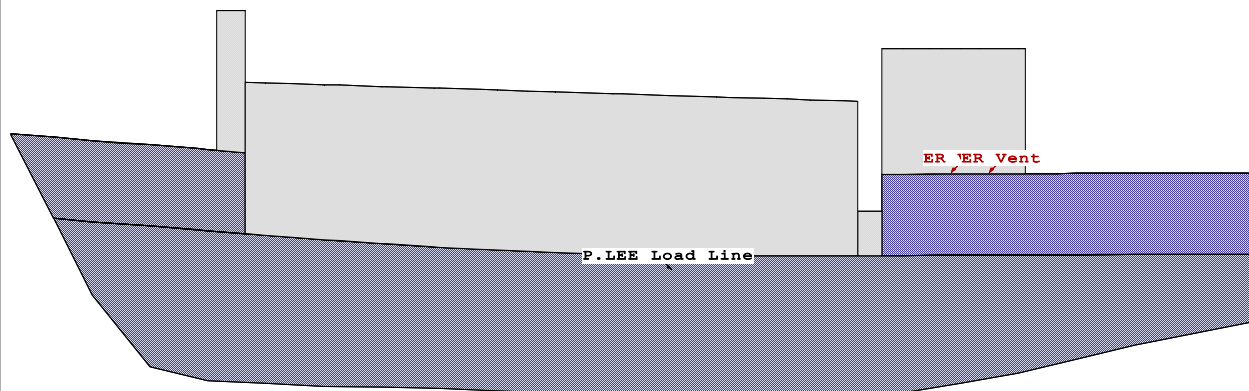
Plan View



Outboard Profile View



Reversed Outboard Profile View



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CULVER MODEL - SCANDIES ROSE - FIXED WIND PROFILE

SR-INV

Critical Points			LCP	TCP	VCP
(1)	ER Vent	FLOOD	29.30a	12.83s	23.10
(2)	ER Vent	FLOOD	29.30a	12.83p	23.10
(3)	ER Vent	FLOOD	33.29a	12.83s	23.10
(4)	ER Vent	FLOOD	33.29a	12.83p	23.10
(5)	P.LEE Load Line		0.00	17.02	12.96

Distances in FEET.

HYDROSTATIC PROPERTIES								
No Trim, No Heel,				Fixed VCG = 0.00				
LCF Draft	Displacement Weight(LT)	Buoyancy-Ctr. LCB VCB		Weight/Inch	LCF	Moment/In trim	KML	KMT
1.000	12.02	2.67a	0.66	2.12	2.59a	5.00	605.7	42.84
1.250	18.89	2.08a	0.83	2.56	0.83a	6.13	471.9	47.34
1.500	27.48	1.67a	1.01	3.15	0.62a	8.21	434.7	55.62
1.750	37.88	1.42a	1.18	3.75	0.57a	10.46	401.7	63.77
2.000	50.18	1.29a	1.35	4.37	0.62a	12.89	373.8	71.79
2.250	63.81	1.10a	1.52	4.68	0.04a	14.96	341.1	62.98
2.500	78.25	0.87a	1.68	4.94	0.24f	17.10	318.0	54.82
2.750	93.50	0.67a	1.83	5.20	0.38f	19.30	300.3	49.52
3.000	109.54	0.52a	1.99	5.47	0.42f	21.71	288.3	45.89
3.250	126.35	0.42a	2.14	5.69	0.40f	24.08	277.3	42.22
3.500	143.80	0.33a	2.29	5.93	0.28f	26.74	270.5	39.24
3.750	161.68	0.21a	2.44	6.04	0.84f	27.84	250.5	36.54
4.000	180.08	0.11a	2.59	6.22	0.74f	30.07	242.9	34.50
4.250	199.05	0.05a	2.73	6.40	0.58f	32.35	236.4	32.84
4.500	218.50	0.01a	2.88	6.53	0.47f	34.32	228.6	30.83
4.750	238.37	0.01f	3.03	6.68	0.19f	36.70	224.0	29.22
5.000	258.66	0.00f	3.17	6.84	0.37a	39.37	221.5	27.85
5.250	279.14	0.01f	3.32	6.88	0.13a	39.96	208.3	26.54
5.500	300.02	0.02a	3.46	7.02	0.52a	42.26	205.0	25.63
5.750	321.35	0.07a	3.61	7.14	0.82a	44.41	201.1	24.74
6.000	343.05	0.14a	3.75	7.26	1.09a	46.59	197.6	23.82
6.250	365.12	0.22a	3.89	7.36	1.38a	48.54	193.4	23.01
6.500	387.39	0.30a	4.04	7.48	1.81a	50.80	190.8	22.34
6.750	410.05	0.39a	4.18	7.60	2.31a	53.30	189.1	21.80
7.000	433.13	0.51a	4.32	7.74	2.86a	56.04	188.3	21.41
7.250	456.64	0.65a	4.47	7.84	3.25a	58.41	186.1	20.87
7.500	480.43	0.80a	4.61	7.94	3.57a	60.51	183.3	20.39
7.750	504.43	0.93a	4.76	8.03	3.96a	62.71	180.9	19.98
8.000	528.72	1.07a	4.90	8.13	4.35a	64.92	178.7	19.66
8.250	553.31	1.22a	5.04	8.23	4.73a	67.15	176.6	19.42
8.500	578.12	1.37a	5.19	8.28	4.82a	68.44	172.2	19.07
8.750	603.09	1.51a	5.33	8.33	4.89a	69.68	168.1	18.75
9.000	628.20	1.64a	5.47	8.38	4.96a	70.96	164.3	18.48
9.250	653.47	1.77a	5.61	8.43	5.03a	72.27	160.9	18.25
9.500	678.89	1.88a	5.75	8.48	5.06a	73.49	157.5	18.04
9.750	704.41	1.99a	5.89	8.51	4.99a	74.16	153.2	17.79
10.000	730.01	2.09a	6.03	8.53	4.92a	74.79	149.1	17.57
10.250	755.68	2.18a	6.17	8.55	4.86a	75.43	145.2	17.37
10.500	781.30	2.27a	6.31	8.55	4.97a	75.27	140.2	17.18
10.750	806.97	2.35a	6.45	8.58	4.92a	75.88	136.8	17.03
11.000	832.72	2.43a	6.59	8.60	4.86a	76.49	133.6	16.88
11.250	858.53	2.50a	6.72	8.62	4.81a	77.11	130.7	16.76
11.500	884.42	2.57a	6.86	8.64	4.75a	77.74	127.9	16.65
11.750	910.36	2.63a	7.00	8.67	4.69a	78.37	125.3	16.55
12.000	936.38	2.68a	7.13	8.69	4.64a	79.02	122.8	16.46
12.250	962.47	2.73a	7.27	8.71	4.58a	79.67	120.4	16.39
12.500	988.62	2.78a	7.40	8.73	4.52a	80.33	118.2	16.33
12.750	1,014.85	2.83a	7.54	8.76	4.46a	81.01	116.1	16.27
13.000	1,041.14	2.86a	7.67	8.78	4.40a	81.69	114.2	16.23
13.250	1,067.51	2.90a	7.81	8.80	4.35a	82.38	112.3	16.19
13.500	1,093.94	2.93a	7.94	8.83	4.29a	83.08	110.5	16.16
13.750	1,120.45	2.96a	8.08	8.85	4.23a	83.79	108.8	16.14
14.000	1,147.03	2.99a	8.21	8.87	4.17a	84.50	107.2	16.13

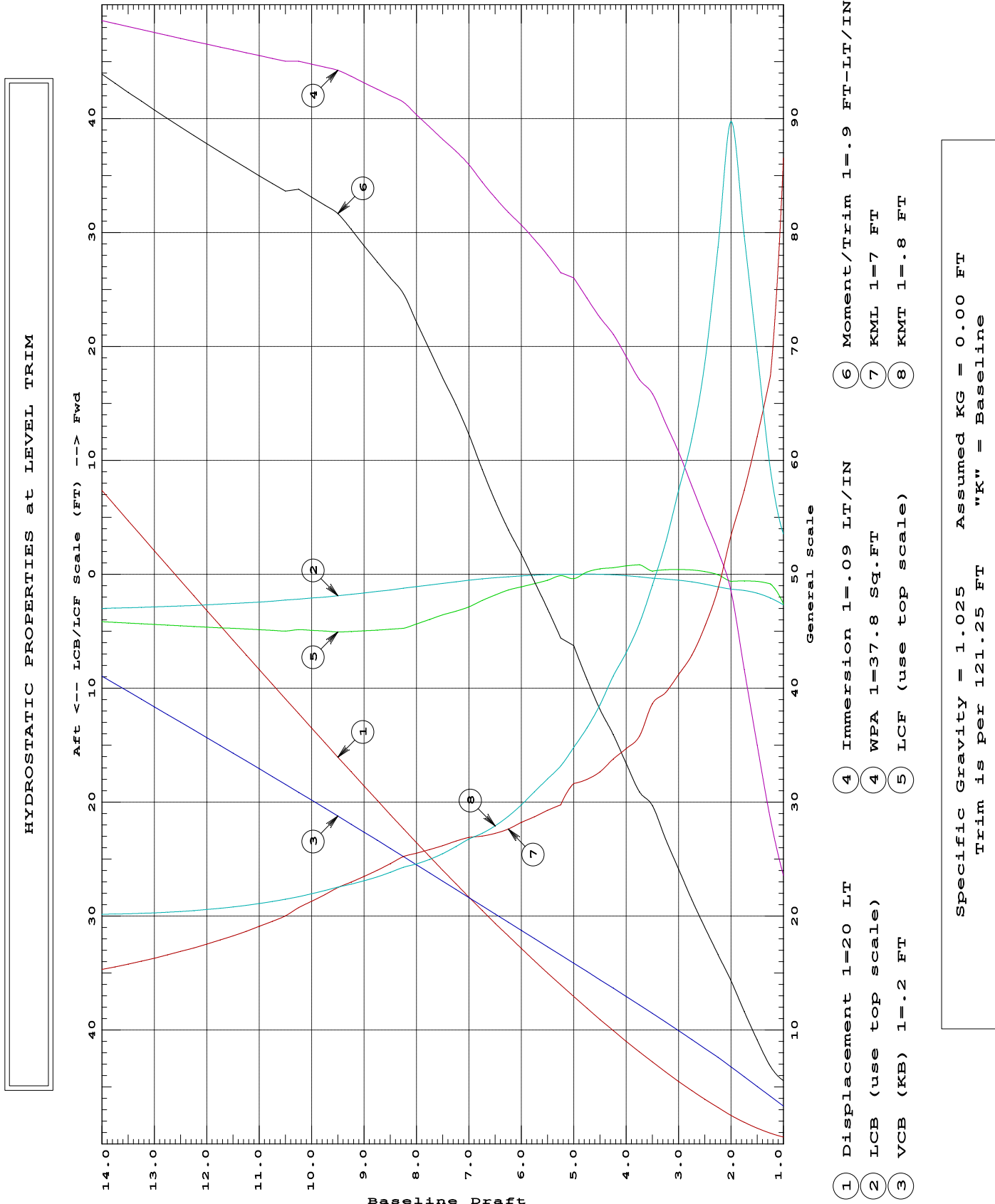
Distances in FEET. Specific Gravity = 1.025. Moment in Ft-LT.
Trim is per 121.25Ft

Draft is from Baseline.

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SR-INV



11/01/20 16:09:57
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CULVER MODEL - SCANDIES ROSE - FIXED WIND PROFILE
1988 STABILITY BOOK-COND. 1

Page A1
SR-INV

Departure, Full Fuel, 212 Pots
Light Ship Source: Culver1988

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS

Baseline draft: 8.991 @ 60.63f, 11.225 @ 0.00, 13.459 @ 60.63a

Trim: Aft 4.47/121.25, Heel: zero

Part	Weight(LT)	LCG	TCG	VCG	RefHt	
LIGHT SHIP Culver1988	485.35	10.74a	0.00	14.09		
Crew and Stores	3.00	33.00a	0.00	16.00		
Pots-Tier1: 89	28.57	3.00f	0.00	19.00		
Pots-Tier2: 44	14.11	3.00f	0.00	23.83		
Pots-Tier3: 40	12.77	3.00f	0.00	26.50		
Pots-Tier4: 40	12.77	3.00f	3.56s	29.17		
Total Fixed	556.57	9.18a	0.08s	15.23		
Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99
DBLBTM.C	0.602	0.870	7.02	28.26f	0.00	1.89
FWDWING.S	1.000	0.870	9.19	28.97f	12.94s	6.97
FWDWING.P	1.000	0.870	9.19	28.97f	12.94p	6.97
MIDWING.S	1.000	0.870	19.95	11.46f	13.61s	6.10
MIDWING.P	1.000	0.870	19.95	11.46f	13.61p	6.10
AFTWING.S	0.963	0.870	19.53	7.13a	13.79s	5.72
AFTWING.P	0.963	0.870	19.53	7.13a	13.79p	5.72
AFTFUEL.S	0.770	0.870	18.64	45.56a	10.71s	9.14
AFTFUEL.P	0.950	0.870	18.64	46.03a	11.58p	10.04
WATER.S	0.954	1.000	23.73	29.29a	13.97s	8.36
WATER.P	0.954	1.000	23.73	29.29a	13.97p	8.36
LUBEOIL.P	0.828	0.924	4.02	43.86a	7.24p	8.84
Total Tanks			318.77	2.65a	0.14p	7.93
Total Weight			875.34	6.80a	0.00	12.57
HULL	Righting Arms:	Displ(LT)	LCB	TCB	VCB	RefHt
	1.025	875.34	7.01a	0.00	6.89	-11.22
			0.00	0.00		
Part	LPA	LCP	HCP	LPA	LCP	HCP
Displacers	1161.2	2.60a	-5.04	1007.0	5.60f	5.70
Sails				1308.3	6.04f	13.45
Total Lateral Plane->	1161.2	2.60a	-5.04	2315.3	5.85f	10.08
Distances in FEET.						
Least freeboard is 2.46 Ft located at 18.15a						

ER Vent (Downflood) Height: 10.64ft

PATRICIA LEE Load Line Height: 1.73ft

Note: Heel Corrected by Shifting Top Tier Pots 3.56 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	3.86 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	1.72 P
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	36.88 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	44.23 P
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	28.87 P
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	15.36 P
(7)	Angle from abs 0 deg to RAzero	> 50.00 deg	74.49 P

LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	3.86 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	36.88 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	44.23 P
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	15.36 P
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	41.35 P

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	2.36 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	3.425 P
(3)	Res. Area Ratio from Roll to Flood or RAzero	> 1.000	3.425 P

Roll angle = 17.94 degrees.

IMO parameters:

K = 0.700
L = 120.97
VCG = 12.57
T = 8.2

X1 = 0.892
B = 34.00
Draft = 11.43
C = 0.471

X2 = 0.985
D = 11.23
WG = 1.09
GM = 3.86

Cb = 0.664
BDR = 3.029
R = 0.789
S = 0.091

11/01/20 16:09:57
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CULVER MODEL - SCANDIES ROSE - FIXED WIND PROFILE
1988 STABILITY BOOK-COND. 2

Page A2
SR-INV

Arrival on Fishing Grounds, 75% Fuel and Water
Light Ship Source: Culver1988

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS

Baseline draft: 10.616 @ 60.63f, 11.898 @ 0.00, 13.181 @ 60.63a

Trim: Aft 2.57/121.25, Heel: zero

Part	Weight(LT)	LCG	TCG	VCG			
LIGHT SHIP Culver1988	485.35	10.74a	0.00	14.09			
Crew and Stores	3.00	33.00a	0.00	16.00			
Pots-Tier1: 89	28.57	3.00f	0.00	19.00			
Pots-Tier2: 44	14.11	3.00f	0.00	23.83			
Pots-Tier3: 40	12.77	3.00f	0.00	26.50			
Pots-Tier4: 40	12.77	3.00f	2.27s	29.17			
Total Fixed	556.57	9.18a	0.05s	15.23			
Part	Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99	
HOLD3.C	1.000	1.025	110.41	7.15a	0.00	8.79	
DBLBTM.C	0.602	0.870	7.02	28.54f	0.00	1.88	-3.21
FWDWING.S	1.000	0.870	9.19	28.97f	12.94s	6.97	
FWDWING.P	1.000	0.870	9.19	28.97f	12.94p	6.97	
MIDWING.S	1.000	0.870	19.95	11.46f	13.61s	6.10	
MIDWING.P	1.000	0.870	19.95	11.46f	13.61p	6.10	
AFTWING.S	0.963	0.870	19.53	7.08a	13.79s	5.72	-9.55
AFTWING.P	0.963	0.870	19.53	7.08a	13.79p	5.72	-9.55
WATER.S	0.716	1.000	17.80	29.14a	13.92s	6.96	-10.57
WATER.P	0.716	1.000	17.80	29.14a	13.92p	6.96	-10.57
LUBEOIL.P	0.828	0.924	4.02	43.85a	7.24p	8.84	-11.89
Total Tanks			380.03	1.14f	0.08p	7.87	
Total Weight			936.60	4.99a	0.00	12.24	
Part	Displ(LT)	LCB	TCB	VCB			
HULL	936.60	5.10a	0.00	7.16	-11.90		
Righting Arms:							
Part	LPA	LCP	HCP	LPA	LCP	HCP	
Displacers	1239.5	0.62a	-5.32	928.7	4.07f	5.38	
Sails				1308.3	6.43f	12.67	
Total Lateral Plane->	1239.5	0.62a	-5.32	2237.1	5.45f	9.65	
Distances in FEET.							
Least freeboard is 2.07 Ft located at 18.15a							

ER Vent (Downflood) Height: 10.50ft

PATRICIA LEE Load Line Height: 1.06ft

Note: Heel Corrected by Shifting Top Tier Pots 2.27 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	3.99 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	1.57 P
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	40.00 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	39.96 P
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	27.22 P
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	12.74 P
(7)	Angle from abs 0 deg to RAzero	> 50.00 deg	77.50 P

LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	3.99 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	40.00 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	39.96 P
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	12.74 P
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	44.34 P

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	2.01 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	3.050 P
(3)	Res. Area Ratio from Roll to Flood or RAzero	> 1.000	3.050 P

Roll angle = 18.09 degrees.

IMO parameters:

K = 0.700
L = 122.03
VCG = 12.24
T = 7.9

X1 = 0.920
B = 34.00
Draft = 12.01
C = 0.467

X2 = 0.986
D = 11.90
WG = 0.24
GM = 3.99

Cb = 0.664
BDR = 2.857
R = 0.742
S = 0.092

11/01/20 16:09:57
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CULVER MODEL - SCANDIES ROSE - FIXED WIND PROFILE
1988 STABILITY BOOK-COND. 3

Page A3
SR-INV

Fishing, Moving Pots, 50% Fuel, 212 Pots, 3 Holds Full
Light Ship Source: Culver1988

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS

Baseline draft: 13.313 @ 60.63f, 12.653 @ 0.00, 11.994 @ 60.63a

Trim: Fwd 1.32/121.25, Heel: Stbd 0.01 deg.

Part	Weight(LT)	LCG	TCG	VCG	RefHt		
LIGHT SHIP Culver1988	485.35	10.74a	0.00	14.09			
Crew and Stores	3.00	33.00a	0.00	16.00			
Pots-Tier1: 89	28.57	3.00f	0.00	19.00			
Pots-Tier2: 44	14.11	3.00f	0.00	23.83			
Pots-Tier3: 40	12.77	3.00f	0.00	26.50			
Pots-Tier4: 40	12.77	3.00f	1.17s	29.17			
Total Fixed	556.57	9.18a	0.03s	15.23			
Part	Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD1.C	1.000	1.025	107.78	30.11f	0.00	9.44	
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99	
HOLD3.C	1.000	1.025	110.41	7.15a	0.00	8.79	
DBLBTM.C	0.602	0.870	7.02	29.14f	0.00	1.88	-2.29
MIDWING.S	0.689	0.870	13.74	11.37f	13.55s	4.87	-7.50
MIDWING.P	0.689	0.870	13.74	11.37f	13.55p	4.87	-7.51
AFTWING.S	0.963	0.870	19.53	6.97a	13.79s	5.71	-9.78
AFTWING.P	0.963	0.870	19.53	6.97a	13.79p	5.71	-9.78
WATER.S	0.477	1.000	11.87	28.78a	13.87s	5.53	-8.76
WATER.P	0.477	1.000	11.87	28.78a	13.87p	5.53	-8.76
LUBEOIL.P	0.414	0.924	2.01	43.66a	7.23p	6.84	-9.34
Total Tanks			443.16	7.79f	0.03p	8.20	
Total Weight			999.73	1.66a	0.00	12.11	
HULL	Righting Arms:	Displ(LT)	LCB	TCB	VCB	RefHt	
	1.025	999.73	1.61a	0.00	7.47	-12.65	
			0.00	0.00			
Part	LPA	LCP	HCP	LPA	LCP	HCP	
Displacers	1335.6	3.44f	-5.71	833.0	0.99a	5.13	
Sails				1308.4	7.21f	11.70	
Total Lateral Plane->	1335.6	3.44f	-5.71	2141.3	4.02f	9.14	

Distances in FEET.

Least freeboard is 1.67 Ft located at 0.00

ER Vent (Downflood) Height: 10.76ft

PATRICIA LEE Load Line Height: 0.30ft

Note: Heel Corrected by Shifting Top Tier Pots 1.17 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	4.01 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	1.24 P
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	42.50 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	33.54 P
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	22.61 P
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	10.92 P
(7)	Angle from abs 0 deg to RAzero	> 50.00 deg	78.05 P

LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	4.01 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	42.50 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	33.54 P
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	10.92 P
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	40.91 P

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	1.78 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	2.710 P
(3)	Res. Area Ratio from Roll to Flood or RAzero	> 1.000	2.710 P

Roll angle = 18.20 degrees.

IMO parameters:

K = 0.700
L = 123.20
VCG = 12.11
T = 7.8

X1 = 0.949
B = 34.00
Draft = 12.61
C = 0.462

X2 = 0.984
D = 12.65
WG = -0.52
GM = 4.01

Cb = 0.660
BDR = 2.687
R = 0.705
S = 0.093

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CULVER MODEL - SCANDIES ROSE - FIXED WIND PROFILE
1988 STABILITY BOOK-COND. 4

Page A4
SR-INV

Fishing, 25% Fuel
Light Ship Source: Culver1988

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS

Baseline draft: 12.659 @ 60.63f, 12.006 @ 0.00, 11.353 @ 60.63a
Trim: Fwd 1.31/121.25, Heel: zero

Part	Weight(LT)	LCG	TCG	VCG			
LIGHT SHIP Culver1988	485.35	10.74a	0.00	14.09			
Crew and Stores	3.00	33.00a	0.00	16.00			
Pots-Tier1: 89	28.57	3.00f	0.00	19.00			
Pots-Tier2: 44	14.11	3.00f	0.00	23.83			
Pots-Tier3: 40	12.77	3.00f	0.00	26.50			
Pots-Tier4: 40	12.77	3.00f	0.58s	29.17			
Total Fixed	556.57	9.18a	0.01s	15.23			
Part	Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD1.C	1.000	1.025	107.78	30.11f	0.00	9.44	
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99	
HOLD3.C	1.000	1.025	110.41	7.15a	0.00	8.79	
DBLBTM.C	0.602	0.870	7.02	29.14f	0.00	1.88	-2.29
AFTWING.S	0.286	0.870	5.81	6.89a	13.64s	2.87	-4.17
AFTWING.P	0.286	0.870	5.81	6.89a	13.64p	2.87	-4.17
WATER.S	0.239	1.000	5.94	28.02a	13.78s	4.03	-5.92
WATER.P	0.239	1.000	5.94	28.02a	13.78p	4.03	-5.92
LUBEOIL.P	0.206	0.924	1.00	43.31a	7.21p	5.80	-7.34
Total Tanks			375.33	9.93f	0.02p	8.57	
Total Weight			931.90	1.48a	0.00	12.55	
Part	Displ(LT)	LCB	TCB	VCB			
HULL	931.90	1.42a	0.00	7.12	-12.00		
		0.00	0.00				
Part	LPA	LCP	HCP	LPA	LCP	HCP	
Displacers	1255.6	3.59f	-5.41	912.6	0.81a	5.30	
Sails				1308.3	7.21f	12.35	
Total Lateral Plane->	1255.6	3.59f	-5.41	2220.9	3.92f	9.45	

Least freeboard is 2.32 Ft located at 0.00

ER Vent (Downflood) Height: 11.41ft

PATRICIA LEE Load Line Height: 0.95ft

Note: Heel Corrected by Shifting Top Tier Pots 0.58 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	3.76 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	1.26 P
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	41.38 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	37.71 P
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	23.63 P
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	14.07 P
(7)	Angle from abs 0 deg to RAzero	> 50.00 deg	73.52 P

LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	3.76 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	41.38 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	37.71 P
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	14.07 P
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	39.81 P

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	2.14 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	3.091 P
(3)	Res. Area Ratio from Roll to Flood or RAzero	> 1.000	3.091 P

Roll angle = 18.11 degrees.

IMO parameters:

K = 0.700
L = 122.78
VCG = 12.55
T = 8.2

X1 = 0.925
B = 34.00
Draft = 11.96
C = 0.466

X2 = 0.979
D = 12.01
WG = 0.56
GM = 3.76

Cb = 0.651
BDR = 2.832
R = 0.758
S = 0.091

11/01/20 16:09:57
GHS 17.34B

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CULVER MODEL - SCANDIES ROSE - FIXED WIND PROFILE
1988 STABILITY BOOK-COND. 5

Page A5
SR-INV

Burned Out, 10% Fuel, 50 Pots, 3 Holds Full
Light Ship Source: Culver1988

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS

Baseline draft: 11.955 @ 60.63f, 11.403 @ 0.00, 10.850 @ 60.63a
Trim: Fwd 1.11/121.25, Heel: zero

Part	Weight(LT)	LCG	TCG	VCG			
LIGHT SHIP Culver1988	485.35	10.74a	0.00	14.09			
Crew and Stores	3.00	33.00a	0.00	16.00			
Pots-Tier1: 50	17.86	3.00f	0.15s	19.00			
Total Fixed	506.21	10.39a	0.01s	14.27			
Part	Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD1.C	1.000	1.025	107.78	30.11f	0.00	9.44	
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99	
HOLD3.C	1.000	1.025	110.41	7.15a	0.00	8.79	
DBLBTM.C	0.602	0.870	7.02	29.11f	0.00	1.88	-2.34
AFTWING.S	0.190	0.870	3.85	6.86a	13.56s	2.46	-3.34
AFTWING.P	0.190	0.870	3.85	6.86a	13.56p	2.46	-3.34
WATER.S	0.096	1.000	2.38	26.22a	13.60s	2.93	-4.06
WATER.P	0.096	1.000	2.38	26.22a	13.60p	2.93	-4.06
LUBEOIL.P	0.082	0.924	0.40	42.48a	7.13p	5.01	-6.02
Total Tanks			363.70	10.96f	0.01p	8.70	
Total Weight			869.91	1.46a	0.00	11.95	
Part	Displ(LT)	LCB	TCB	VCB			
HULL	869.91	1.42a	0.00	6.79	-11.40		
		0.00	0.00				
Part	LPA	LCP	HCP	LPA	LCP	HCP	
Displacers	1181.0	3.53f	-5.12	987.2	0.44a	5.49	
Sails				1308.3	7.17f	12.96	
Total Lateral Plane->	1181.0	3.53f	-5.12	2295.5	3.90f	9.75	
Distances in FEET.							
Least freeboard is 2.93 Ft located at 0.00							

ER Vent (Downflood) Height: 11.96ft

PATRICIA LEE Load Line Height: 1.55ft

Note: Heel Corrected by Shifting Top Tier Pots 0.15 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	4.57 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	1.82 P
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	42.50 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	52.13 P
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	32.37 P
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	19.76 P
(7)	Angle from abs 0 deg to RAzero	> 50.00 deg	82.82 P

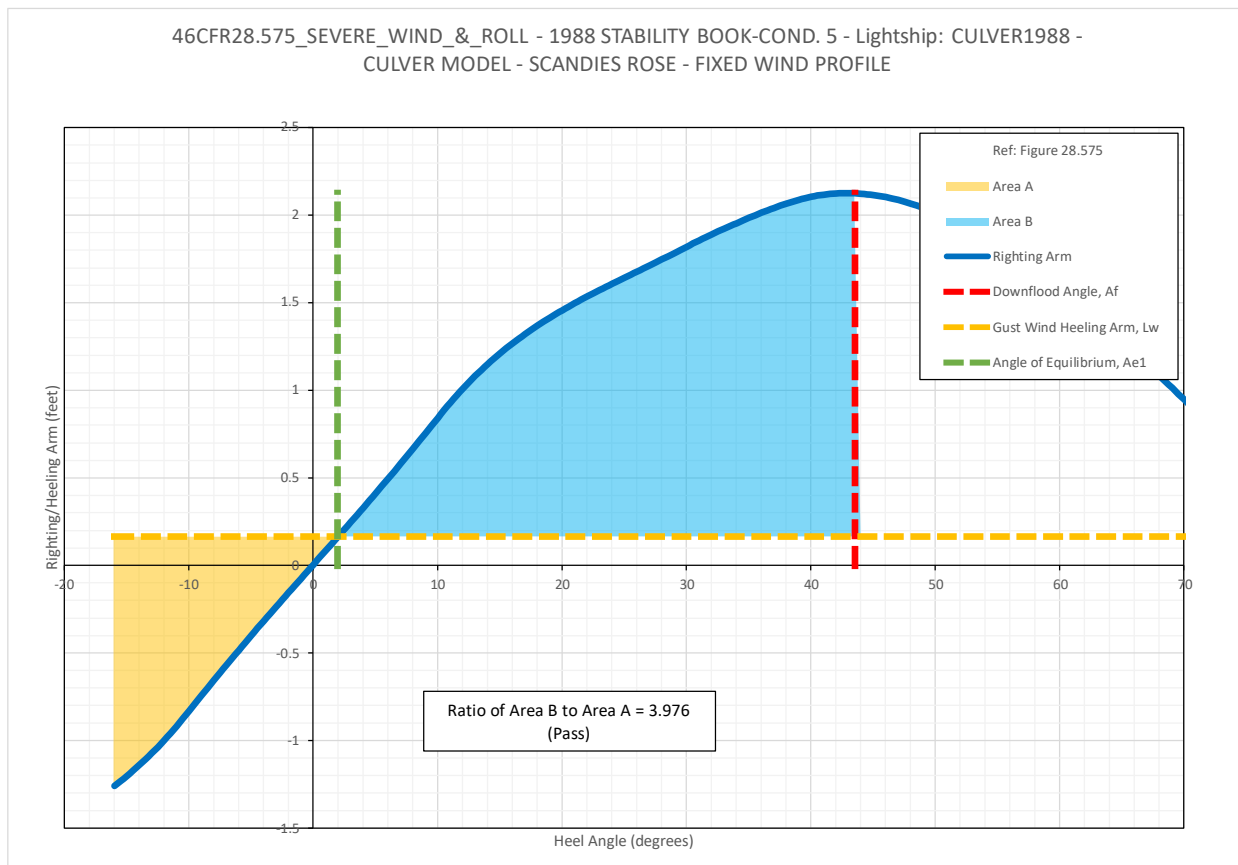
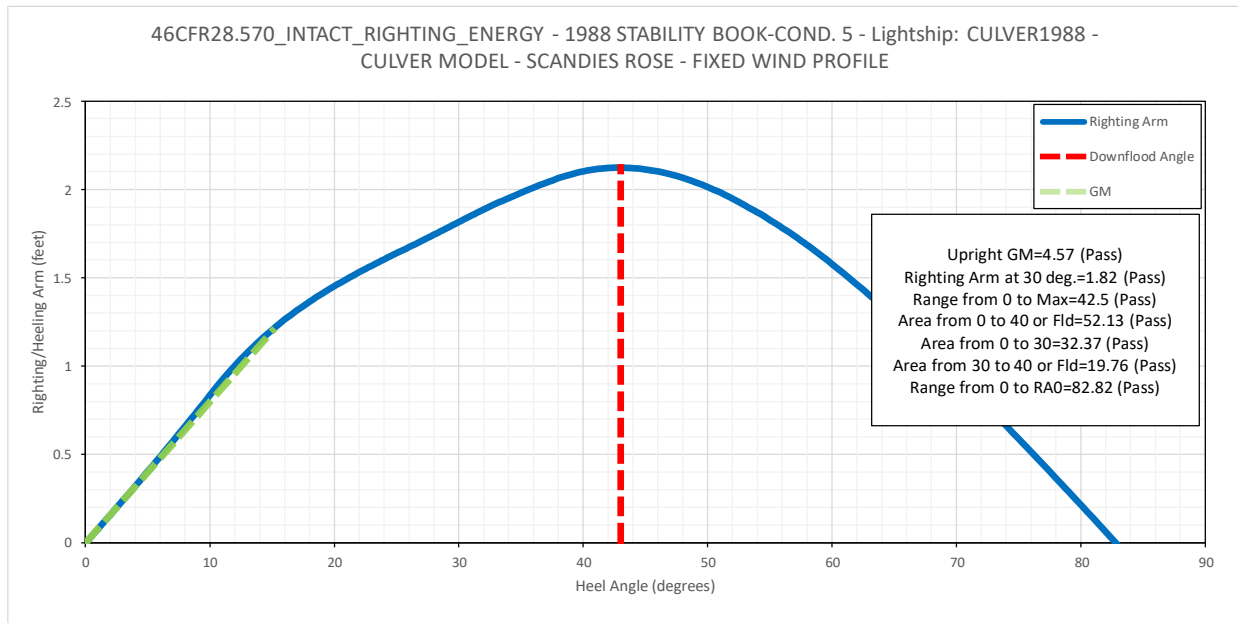
LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	4.57 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	42.50 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	52.13 P
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	19.76 P
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	57.42 P

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	1.96 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	3.976 P
(3)	Res. Area Ratio from Roll to Flood or RAzero	> 1.000	3.976 P

Roll angle = 17.91 degrees.

IMO parameters:

K = 0.700	X1 = 0.900	X2 = 0.974	Cb = 0.642
L = 122.35	B = 34.00	D = 11.40	BDR = 2.982
VCG = 11.95	Draft = 11.36	WG = 0.56	R = 0.759
T = 7.5	C = 0.470	GM = 4.57	S = 0.095



11/01/20 16:09:57
GHS 17.34B

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CULVER MODEL - SCANDIES ROSE - FIXED WIND PROFILE
1988 STABILITY BOOK-COND. 6

Page A6
SR-INV

Departure, Full Fuel, 3 Holds Full, 168 Pots
Light Ship Source: Culver1988

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS
Baseline draft: 13.453 @ 60.63f, 13.216 @ 0.00, 12.979 @ 60.63a
Trim: Fwd 0.47/121.25, Heel: zero

Part	Weight(LT)	LCG	TCG	VCG			
LIGHT SHIP Culver1988	485.35	10.74a	0.00	14.09			
Crew and Stores	3.00	33.00a	0.00	16.00			
Pots-Tier1: 87	28.57	3.00f	0.00	19.00			
Pots-Tier2: 43	14.11	3.00f	0.00	23.83			
Pots-Tier3: 39	12.77	3.00f	2.99s	26.50			
Total Fixed	543.80	9.46a	0.07s	14.90			
Part	Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD1.C	1.000	1.025	107.78	30.11f	0.00	9.44	
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99	
HOLD3.C	1.000	1.025	110.41	7.15a	0.00	8.79	
DBLBTM.C	0.602	0.870	7.02	29.01f	0.00	1.88	-2.49
FWDWING.S	1.000	0.870	9.19	28.97f	12.94s	6.97	
FWDWING.P	1.000	0.870	9.19	28.97f	12.94p	6.97	
MIDWING.S	1.000	0.870	19.95	11.46f	13.61s	6.10	
MIDWING.P	1.000	0.870	19.95	11.46f	13.61p	6.10	
AFTWING.S	0.963	0.870	19.53	6.99a	13.79s	5.71	-9.73
AFTWING.P	0.963	0.870	19.53	6.99a	13.79p	5.71	-9.73
AFTFUEL.S	0.385	0.870	9.32	45.07a	10.52s	7.40	-9.38
AFTFUEL.P	0.475	0.870	9.32	45.64a	11.48p	7.98	-10.28
WATER.S	0.954	1.000	23.73	29.20a	13.97s	8.36	-14.01
WATER.P	0.954	1.000	23.73	29.20a	13.97p	8.36	-14.01
LUBEOIL.P	0.828	0.924	4.02	43.83a	7.24p	8.84	-12.99
Total Tanks			518.33	4.80f	0.07p	8.30	
Total Weight			1,062.13	2.50a	0.00	11.68	
HULL	Righting Arms:	Displ(LT)	LCB	TCB	VCB		
	1.025	1,062.13	2.48a	0.00	7.78		-13.22
			0.00	0.00			
Part	LPA	LCP	HCP	LPA	LCP	HCP	
Displacers	1404.5	2.49f	-5.96	763.7	0.15f	5.00	
Sails				1308.3	7.04f	11.19	
Total Lateral Plane->	1404.5	2.49f	-5.96	2072.1	4.50f	8.90	

Distances in FEET. Least freeboard is 1.11 Ft located at 0.00

ER Vent (Downflood) Height: 10.00ft

PATRICIA LEE Load Line Height: -0.26ft

Note: Heel Corrected by Shifting Top Tier Pots 2.99 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	4.31 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	1.28 P
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	43.97 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	29.10 P
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	22.26 P
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	6.85 P
(7)	Angle from abs 0 deg to RAzero	> 50.00 deg	84.50 P

LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	4.31 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	43.97 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	29.10 P
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	6.85 P
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	43.71 P

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	1.49 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	2.415 P
(3)	Res. Area Ratio from Roll to Flood or RAzero	> 1.000	2.415 P

Roll angle = 18.23 degrees.

IMO parameters:

K = 0.700
L = 123.40
VCG = 11.68
T = 7.5

X1 = 0.988
B = 34.00
Draft = 13.20
C = 0.459

X2 = 0.989
D = 13.22
WG = -1.53
GM = 4.31

Cb = 0.671
BDR = 2.573
R = 0.661
S = 0.094

11/01/20 16:09:57
GHS 17.34B

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CULVER MODEL - SCANDIES ROSE - FIXED WIND PROFILE
1988 STABILITY BOOK-COND. 1

Page A7
SR-INV

Departure, Full Fuel, 212 Pots
Light Ship Source: MSC1988

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS

Baseline draft: 9.291 @ 60.63f, 10.419 @ 0.00, 11.548 @ 60.63a
Trim: Aft 2.26/121.25, Heel: zero

Part	Weight(LT)	LCG	TCG	VCG	RefHt		
LIGHT SHIP MSC1988	392.54	7.41a	0.00	14.63			
Crew and Stores	3.00	33.00a	0.00	16.00			
Pots-Tier1: 89	28.57	3.00f	0.00	19.00			
Pots-Tier2: 44	14.11	3.00f	0.00	23.83			
Pots-Tier3: 40	12.77	3.00f	0.00	26.50			
Pots-Tier4: 40	12.77	3.00f	3.55s	29.17			
Total Fixed	463.76	6.04a	0.10s	15.92			
Part	Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99	
DBLBTM.C	0.602	0.870	7.02	28.59f	0.00	1.88	-3.14
FWDWING.S	1.000	0.870	9.19	28.97f	12.94s	6.97	
FWDWING.P	1.000	0.870	9.19	28.97f	12.94p	6.97	
MIDWING.S	1.000	0.870	19.95	11.46f	13.61s	6.10	
MIDWING.P	1.000	0.870	19.95	11.46f	13.61p	6.10	
AFTWING.S	0.963	0.870	19.53	7.07a	13.79s	5.72	-9.57
AFTWING.P	0.963	0.870	19.53	7.07a	13.79p	5.72	-9.57
AFTFUEL.S	0.770	0.870	18.64	45.53a	10.71s	9.14	-11.67
AFTFUEL.P	0.950	0.870	18.64	46.00a	11.58p	10.04	-13.20
WATER.S	0.954	1.000	23.74	29.25a	13.97s	8.36	-13.34
WATER.P	0.954	1.000	23.73	29.25a	13.97p	8.36	-13.34
LUBEOIL.P	0.828	0.924	4.02	43.85a	7.24p	8.84	-12.00
Total Tanks			318.77	2.62a	0.14p	7.93	
Total Weight			782.53	4.65a	0.00	12.66	
HULL	Righting Arms:	Displ(LT)	LCB	TCB	VCB	RefHt	
	1.025	782.53	4.77a	0.00	6.34	-10.42	
			0.00a	0.00			
Part	LPA	LCP	HCP	LPA	LCP	HCP	
Displacers	1061.9	0.16a	-4.65	1106.3	2.92f	5.88	
Sails				1308.3	6.49f	14.14	
Total Lateral Plane->	1061.9	0.16a	-4.65	2414.7	4.86f	10.35	
Distances in FEET.							
Least freeboard is 3.60 Ft located at 18.15a							

ER Vent (Downflood) Height: 12.06ft

PATRICIA LEE Load Line Height: 2.54ft

Note: Heel Corrected by Shifting Top Tier Pots 3.55 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	4.20 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	1.99 P
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	36.55 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	54.10 P
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	33.69 P
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	20.41 P
(7)	Angle from abs 0 deg to RAzero	> 50.00 deg	75.28 P

LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	4.20 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	36.55 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	54.10 P
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	20.41 P
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	47.04 P

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	2.56 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	4.579 P
(3)	Res. Area Ratio from Roll to Flood or RAzero	> 1.000	4.579 P

Roll angle = 17.67 degrees.

IMO parameters:

K = 0.700
L = 120.85
VCG = 12.66
T = 7.9

X1 = 0.849
B = 34.00
Draft = 10.52
C = 0.477

X2 = 0.972
D = 10.42
WG = 2.16
GM = 4.20

Cb = 0.640
BDR = 3.263
R = 0.854
S = 0.092

11/01/20 16:09:57
GHS 17.34B

USCG - SERT - Emergency Use Only
CULVER MODEL - SCANDIES ROSE - FIXED WIND PROFILE
1988 STABILITY BOOK-COND. 2

Page A8
SR-INV

Arrival on Fishing Grounds, 75% Fuel and Water
Light Ship Source: MSC1988

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS

Baseline draft: 10.922 @ 60.63f, 11.094 @ 0.00, 11.265 @ 60.63a
Trim: Aft 0.34/121.25, Heel: Port 0.01 deg.

Part	Weight(LT)	LCG	TCG	VCG			
LIGHT SHIP MSC1988	392.54	7.41a	0.00	14.63			
Crew and Stores	3.00	33.00a	0.00	16.00			
Pots-Tier1: 89	28.57	3.00f	0.00	19.00			
Pots-Tier2: 44	14.11	3.00f	0.00	23.83			
Pots-Tier3: 40	12.77	3.00f	0.00	26.50			
Pots-Tier4: 40	12.77	3.00f	2.25s	29.17			
Total Fixed	463.76	6.04a	0.06s	15.92			
Part	Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99	
HOLD3.C	1.000	1.025	110.41	7.15a	0.00	8.79	
DBLBTM.C	0.602	0.870	7.02	28.88f	0.00	1.88	-2.68
FWDWING.S	1.000	0.870	9.19	28.97f	12.94s	6.97	
FWDWING.P	1.000	0.870	9.19	28.97f	12.94p	6.97	
MIDWING.S	1.000	0.870	19.95	11.46f	13.61s	6.10	
MIDWING.P	1.000	0.870	19.95	11.46f	13.61p	6.10	
AFTWING.S	0.963	0.870	19.53	7.01a	13.79s	5.71	-9.68
AFTWING.P	0.963	0.870	19.53	7.01a	13.79p	5.71	-9.68
WATER.S	0.716	1.000	17.80	29.08a	13.92s	6.96	-11.12
WATER.P	0.716	1.000	17.80	29.08a	13.92p	6.96	-11.11
LUBEOIL.P	0.828	0.924	4.02	43.84a	7.24p	8.84	-12.69
Total Tanks			380.03	1.15f	0.08p	7.87	
Total Weight			843.79	2.80a	0.00	12.29	
Part	Load	SpGr	Weight(LT)	LCB	TCB	VCB	RefHt
HULL		1.025	843.79	2.82a	0.00	6.65	-11.09
Righting Arms:				0.00f	0.00		
Part	LPA	LCP	HCP	LPA	LCP	HCP	
Displacers	1141.7	1.91f	-4.95	1026.9	1.23f	5.59	
Sails				1308.4	6.88f	13.35	
Total Lateral Plane->	1141.7	1.91f	-4.95	2335.2	4.40f	9.94	
Distances in FEET.							
Least freeboard is 3.20 Ft located at 12.10a							

ER Vent (Downflood) Height: 11.91ft PATRICIA LEE Load Line Height: 1.86ft

Note: Heel Corrected by Shifting Top Tier Pots 2.25 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	4.30 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	1.83 P
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	41.07 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	51.43 P
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	32.02 P
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	19.40 P
(7)	Angle from abs 0 deg to RAzero	> 50.00 deg	78.48 P

LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	4.30 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	41.07 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	51.43 P
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	19.40 P
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	53.58 P

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	2.19 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	4.074 P
(3)	Res. Area Ratio from Roll to Flood or RAzero	> 1.000	4.074 P

Roll angle = 17.90 degrees.

IMO parameters:

K = 0.700	X1 = 0.885	X2 = 0.974	Cb = 0.643
L = 121.88	B = 34.00	D = 11.09	BDR = 3.065
VCG = 12.29	Draft = 11.11	WG = 1.19	R = 0.794
T = 7.7	C = 0.472	GM = 4.30	S = 0.093

11/01/20 16:09:57
GHS 17.34B

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CULVER MODEL - SCANDIES ROSE - FIXED WIND PROFILE
1988 STABILITY BOOK-COND. 3

Page A9
SR-INV

Fishing, Moving Pots, 50% Fuel, 212 Pots, 3 Holds Full
Light Ship Source: MSC1988

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS

Baseline draft: 13.620 @ 60.63f, 11.844 @ 0.00, 10.068 @ 60.63a

Trim: Fwd 3.55/121.25, Heel: zero

Part	Weight(LT)	LCG	TCG	VCG			
LIGHT SHIP MSC1988	392.54	7.41a	0.00	14.63			
Crew and Stores	3.00	33.00a	0.00	16.00			
Pots-Tier1: 89	28.57	3.00f	0.00	19.00			
Pots-Tier2: 44	14.11	3.00f	0.00	23.83			
Pots-Tier3: 40	12.77	3.00f	0.00	26.50			
Pots-Tier4: 40	12.77	3.00f	1.14s	29.17			
Total Fixed	463.76	6.04a	0.03s	15.92			
Part	Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD1.C	1.000	1.025	107.78	30.11f	0.00	9.44	
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99	
HOLD3.C	1.000	1.025	110.41	7.15a	0.00	8.79	
DBLBTM.C	0.602	0.870	7.02	29.50f	0.00	1.89	-1.75
MIDWING.S	0.689	0.870	13.74	11.49f	13.55s	4.88	-7.29
MIDWING.P	0.689	0.870	13.74	11.49f	13.55p	4.88	-7.29
AFTWING.S	0.963	0.870	19.53	6.90a	13.79s	5.72	-9.90
AFTWING.P	0.963	0.870	19.53	6.90a	13.79p	5.72	-9.90
WATER.S	0.477	1.000	11.87	28.71a	13.87s	5.53	-9.30
WATER.P	0.477	1.000	11.87	28.71a	13.87p	5.53	-9.30
LUBEOIL.P	0.414	0.924	2.01	43.63a	7.23p	6.84	-10.14
Total Tanks			443.16	7.81f	0.03p	8.20	
Total Weight			906.92	0.72f	0.00	12.14	
Part	Displ(LT)	LCB	TCB	VCB	RefHt		
HULL	906.92	0.87f	0.00	7.03	-11.84		
Righting Arms:							
Part	LPA	LCP	HCP	LPA	LCP	HCP	
Displacers	1237.3	6.10f	-5.41	930.8	3.57a	5.40	
Sails				1308.3	7.66f	12.38	
Total Lateral Plane->	1237.3	6.10f	-5.41	2239.2	2.99f	9.48	
Distances in FEET.							
Least freeboard is 2.48 Ft located at 0.00							

ER Vent (Downflood) Height: 12.11ft

PATRICIA LEE Load Line Height: 1.11ft

Note: Heel Corrected by Shifting Top Tier Pots 1.14 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	4.32 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	1.46 P
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	42.99 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	43.52 P
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	27.20 P
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	16.32 P
(7)	Angle from abs 0 deg to RAzero	> 50.00 deg	78.94 P

LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	4.32 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	42.99 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	43.52 P
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	16.32 P
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	48.88 P

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	1.94 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	3.598 P
(3)	Res. Area Ratio from Roll to Flood or RAzero	> 1.000	3.598 P

Roll angle = 17.99 degrees.

IMO parameters:

K = 0.700
L = 123.14
VCG = 12.14
T = 7.6

X1 = 0.918
B = 34.00
Draft = 11.73
C = 0.467

X2 = 0.973
D = 11.85
WG = 0.28
GM = 4.32

Cb = 0.640
BDR = 2.870
R = 0.744
S = 0.094

11/01/20 16:09:57
GHS 17.34B

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CULVER MODEL - SCANDIES ROSE - FIXED WIND PROFILE
1988 STABILITY BOOK-COND. 4

Page A10
SR-INV

Fishing, 25% Fuel
Light Ship Source: MSC1988

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS

Baseline draft: 12.975 @ 60.63f, 11.194 @ 0.00, 9.412 @ 60.63a
Trim: Fwd 3.56/121.25, Heel: zero

Part	Weight(LT)	LCG	TCG	VCG			
LIGHT SHIP MSC1988	392.54	7.41a	0.00	14.63			
Crew and Stores	3.00	33.00a	0.00	16.00			
Pots-Tier1: 89	28.57	3.00f	0.00	19.00			
Pots-Tier2: 44	14.11	3.00f	0.00	23.83			
Pots-Tier3: 40	12.77	3.00f	0.00	26.50			
Pots-Tier4: 40	12.77	3.00f	0.59s	29.17			
Total Fixed	463.76	6.04a	0.02s	15.92			
Part	Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD1.C	1.000	1.025	107.78	30.11f	0.00	9.44	
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99	
HOLD3.C	1.000	1.025	110.41	7.15a	0.00	8.79	
DBLBTM.C	0.602	0.870	7.02	29.50f	0.00	1.89	-1.74
AFTWING.S	0.286	0.870	5.81	6.68a	13.64s	2.88	-4.30
AFTWING.P	0.286	0.870	5.81	6.68a	13.64p	2.88	-4.30
WATER.S	0.239	1.000	5.94	27.87a	13.78s	4.03	-6.47
WATER.P	0.239	1.000	5.94	27.87a	13.78p	4.03	-6.47
LUBEOIL.P	0.206	0.924	1.00	43.26a	7.21p	5.80	-8.16
Total Tanks			375.33	9.94f	0.02p	8.57	
Total Weight			839.09	1.11f	0.00	12.63	
Part	Righting Arms:	Displ(LT)	LCB	TCB	VCB		
HULL	1.025	839.09	1.28f	0.00	6.68	-11.19	
			0.00	0.00			
Part	LPA	LCP	HCP	LPA	LCP	HCP	
Displacers	1157.1	6.46f	-5.11	1011.1	3.22a	5.60	
Sails				1308.3	7.66f	13.02	
Total Lateral Plane->	1157.1	6.46f	-5.11	2319.5	2.92f	9.79	

Least freeboard is 3.13 Ft located at 0.00

ER Vent (Downflood) Height: 12.76ft

PATRICIA LEE Load Line Height: 1.76ft

Note: Heel Corrected by Shifting Top Tier Pots 0.59 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	4.12 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	1.48 P
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	41.20 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	43.59 P
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	27.87 P
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	15.73 P
(7)	Angle from abs 0 deg to RAzero	> 50.00 deg	74.09 P

LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	4.12 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	41.20 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	43.59 P
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	15.73 P
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	45.58 P

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	2.30 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	4.010 P
(3)	Res. Area Ratio from Roll to Flood or RAzero	> 1.000	4.010 P

Roll angle = 17.86 degrees.

IMO parameters:

K = 0.700
L = 122.72
VCG = 12.63
T = 7.9

X1 = 0.890
B = 34.00
Draft = 11.07
C = 0.471

X2 = 0.965
D = 11.20
WG = 1.40
GM = 4.12

Cb = 0.629
BDR = 3.037
R = 0.805
S = 0.092

11/01/20 16:09:57
GHS 17.34B

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CULVER MODEL - SCANDIES ROSE - FIXED WIND PROFILE
1988 STABILITY BOOK-COND. 5

Page A11
SR-INV

Burned Out, 10% Fuel, 50 Pots, 3 Holds Full
Light Ship Source: MSC1988

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS

Baseline draft: 12.274 @ 60.63f, 10.587 @ 0.00, 8.900 @ 60.63a
Trim: Fwd 3.37/121.25, Heel: zero

Part	Weight(LT)	LCG	TCG	VCG			
LIGHT SHIP MSC1988	392.54	7.41a	0.00	14.63			
Crew and Stores	3.00	33.00a	0.00	16.00			
Pots-Tier1: 50	17.86	3.00f	0.17s	19.00			
Total Fixed	413.40	7.15a	0.01s	14.83			
Part	Load	SpGr	Weight(LT)	LCG	VCG	RefHt	
HOLD1.C	1.000	1.025	107.78	30.11f	0.00	9.44	
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99	
HOLD3.C	1.000	1.025	110.41	7.15a	0.00	8.79	
DBLBTM.C	0.602	0.870	7.02	29.47f	0.00	1.89	-1.79
AFTWING.S	0.190	0.870	3.85	6.54a	13.56s	2.46	-3.47
AFTWING.P	0.190	0.870	3.85	6.54a	13.56p	2.46	-3.47
WATER.S	0.096	1.000	2.38	26.12a	13.59s	2.93	-4.56
WATER.P	0.096	1.000	2.38	26.12a	13.59p	2.93	-4.56
LUBEOIL.P	0.082	0.924	0.40	42.39a	7.14p	5.02	-6.83
Total Tanks			363.71	10.98f	0.01p	8.70	
Total Weight			777.11	1.34f	0.00	11.96	
Part	Displ(LT)	LCB	TCB	VCB			
HULL	777.11	1.49f	0.00	6.34	-10.58		
		0.00	0.00				
Part	LPA	LCP	HCP	LPA	LCP	HCP	
Displacers	1082.0	6.60f	-4.83	1086.2	2.72a	5.80	
Sails				1308.3	7.63f	13.64	
Total Lateral Plane->	1082.0	6.60f	-4.83	2394.6	2.93f	10.08	

Least freeboard is 3.74 Ft located at 0.00

ER Vent (Downflood) Height: 13.32ft

PATRICIA LEE Load Line Height: 2.37ft

Note: Heel Corrected by Shifting Top Tier Pots 0.17 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	5.00 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	2.09 P
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	42.50 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	58.92 P
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	37.18 P
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	21.73 P
(7)	Angle from abs 0 deg to RAzero	> 50.00 deg	83.48 P

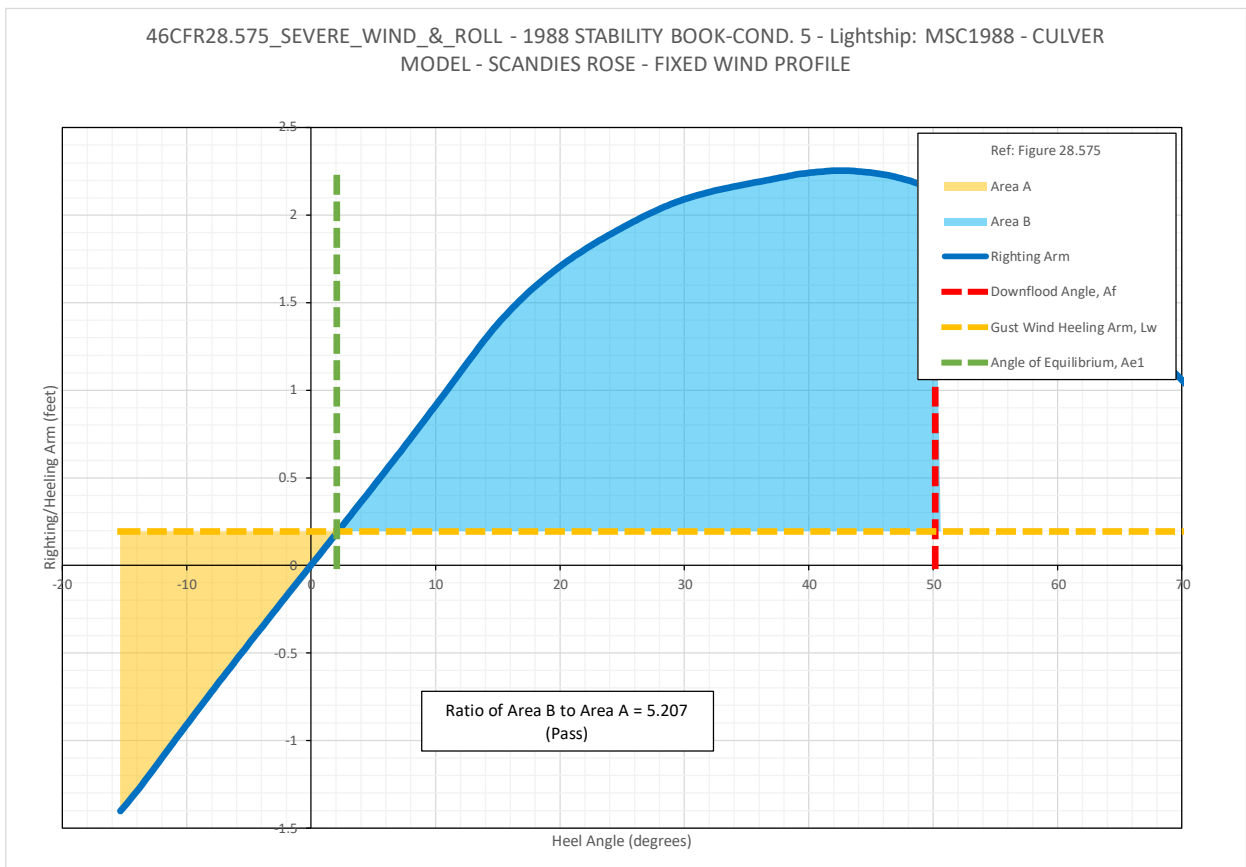
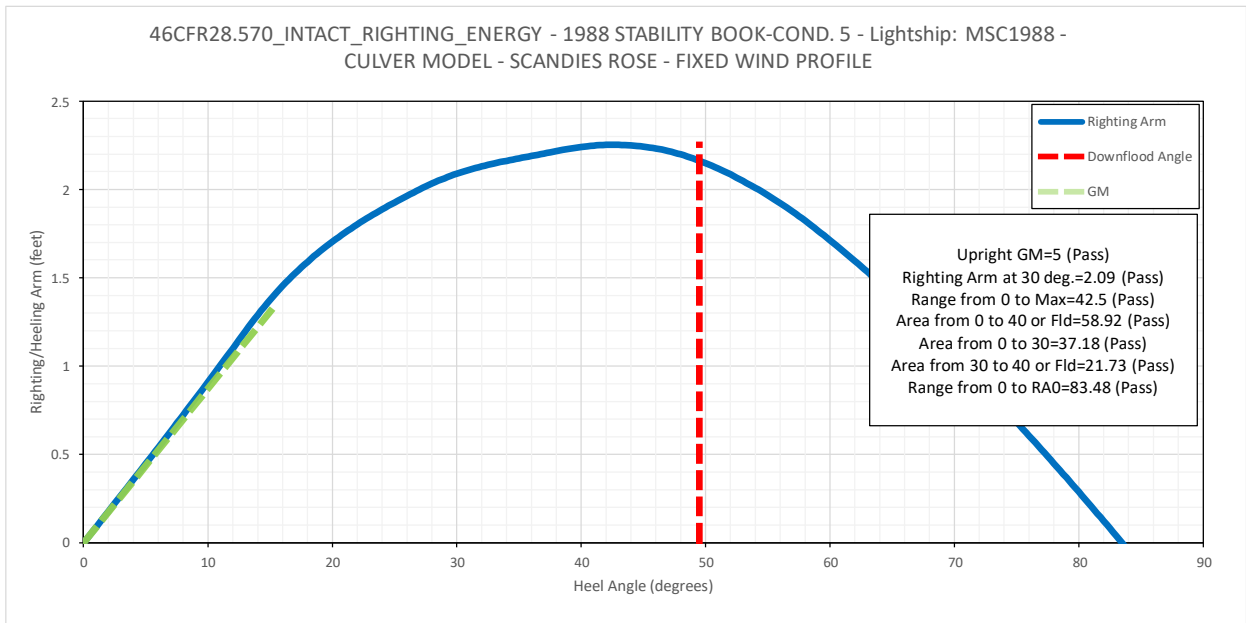
LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	5.00 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	42.50 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	58.92 P
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	21.73 P
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	64.54 P

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	2.10 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	5.207 P
(3)	Res. Area Ratio from Roll to Flood or RAzero	> 1.000	5.207 P

Roll angle = 17.42 degrees.

IMO parameters:

K = 0.700	X1 = 0.859	X2 = 0.957	Cb = 0.618
L = 122.29	B = 34.00	D = 10.59	BDR = 3.211
VCG = 11.96	Draft = 10.48	WG = 1.34	R = 0.806
T = 7.2	C = 0.476	GM = 5.00	S = 0.096



11/01/20 16:09:57
GHS 17.34B

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CULVER MODEL - SCANDIES ROSE - FIXED WIND PROFILE
1988 STABILITY BOOK-COND. 6

Page A12
SR-INV

Departure, Full Fuel, 3 Holds Full, 168 Pots
Light Ship Source: MSC1988

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS
Baseline draft: 13.745 @ 60.63f, 12.410 @ 0.00, 11.075 @ 60.63a
Trim: Fwd 2.67/121.25, Heel: Port 0.01 deg.

Part	Weight(LT)	LCG	TCG	VCG	RefHt		
LIGHT SHIP MSC1988	392.54	7.41a	0.00	14.63			
Crew and Stores	3.00	33.00a	0.00	16.00			
Pots-Tier1: 87	28.57	3.00f	0.00	19.00			
Pots-Tier2: 43	14.11	3.00f	0.00	23.83			
Pots-Tier3: 39	12.77	3.00f	2.96s	26.50			
Total Fixed	450.99	6.30a	0.08s	15.54			
Part	Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD1.C	1.000	1.025	107.78	30.11f	0.00	9.44	
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99	
HOLD3.C	1.000	1.025	110.41	7.15a	0.00	8.79	
DBLBTM.C	0.602	0.870	7.02	29.36f	0.00	1.89	-1.96
FWDWING.S	1.000	0.870	9.19	28.97f	12.94s	6.97	
FWDWING.P	1.000	0.870	9.19	28.97f	12.94p	6.97	
MIDWING.S	1.000	0.870	19.95	11.46f	13.61s	6.10	
MIDWING.P	1.000	0.870	19.95	11.46f	13.61p	6.10	
AFTWING.S	0.963	0.870	19.53	6.93a	13.79s	5.72	-9.86
AFTWING.P	0.963	0.870	19.53	6.93a	13.79p	5.72	-9.85
AFTFUEL.S	0.385	0.870	9.32	45.01a	10.52s	7.40	-10.21
AFTFUEL.P	0.475	0.870	9.32	45.59a	11.49p	7.98	-11.11
WATER.S	0.954	1.000	23.74	29.16a	13.97s	8.36	-14.54
WATER.P	0.954	1.000	23.74	29.16a	13.97p	8.36	-14.54
LUBEOIL.P	0.828	0.924	4.02	43.82a	7.24p	8.84	-13.79
Total Tanks			518.33	4.82f	0.07p	8.30	
Total Weight			969.32	0.36a	0.00	11.67	
HULL	Righting Arms:	Displ(LT)	LCB	TCB	VCB	RefHt	
	1.025	969.32	0.26a	0.00	7.33	-12.41	
			0.00	0.00			
Part	LPA	LCP	HCP	LPA	LCP	HCP	
Displacers	1306.6	4.92f	-5.64	861.9	2.76a	5.22	
Sails				1308.4	7.49f	11.86	
Total Lateral Plane->	1306.6	4.92f	-5.64	2170.3	3.42f	9.22	

Distances in FEET. Least freeboard is 1.92 Ft located at 0.00

ER Vent (Downflood) Height: 11.33ft

PATRICIA LEE Load Line Height: 0.55ft

Note: Heel Corrected by Shifting Top Tier Pots 2.96 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	4.55 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	1.50 P
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	44.11 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	44.44 P
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	27.15 P
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	17.29 P
(7)	Angle from abs 0 deg to RAzero	> 50.00 deg	85.44 P

LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	4.55 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	44.11 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	44.44 P
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	17.29 P
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	52.46 P

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	1.64 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	3.218 P
(3)	Res. Area Ratio from Roll to Flood or RAzero	> 1.000	3.218 P

Roll angle = 18.05 degrees.

IMO parameters:

K = 0.700
L = 123.32
VCG = 11.67
T = 7.4

X1 = 0.940
B = 34.00
Draft = 12.32
C = 0.464

X2 = 0.980
D = 12.41
WG = -0.74
GM = 4.55

Cb = 0.652
BDR = 2.739
R = 0.694
S = 0.095

11/01/20 16:09:57
GHS 17.34B

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CULVER MODEL - SCANDIES ROSE - FIXED WIND PROFILE
2019 STABILITY BOOK COND. 1

Page A13
SR-INV

Max Consum., 208 Pots, Holds 2 and 3 full
Light Ship Source: Culver2019
Baseline draft: 13.475 @ 60.63f, 13.115 @ 0.00, 12.754 @ 60.63a
Trim: Fwd 0.72/121.25, Heel: zero

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS							
Part	Weight(LT)	LCG	TCG	VCG			
LIGHT SHIP Culver2019	548.32	3.30a	0.00	14.69			
Crew and Stores	2.50	8.60a	0.00	16.80			
Pots-Tier1: 88	32.80	8.50f	0.00	18.75			
Pots-Tier2: 40	14.91	8.50f	0.00	23.67			
Pots-Tier3: 40	14.91	8.50f	0.00	26.50			
Pots-Tier4: 40	14.91	8.50f	5.55s	29.33			
Icing	16.08	3.89f	0.00	21.37			
Total Fixed	644.43	1.72a	0.13s	15.89			
Part	Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99	
HOLD3.C	1.000	1.025	110.41	7.15a	0.00	8.79	
FWDWING.S	0.980	0.870	9.01	28.98f	12.93s	6.91	-9.72
FWDWING.P	0.980	0.870	9.01	28.98f	12.93p	6.91	-9.72
MIDWING.S	0.980	0.870	19.55	11.48f	13.61s	6.02	-9.78
MIDWING.P	0.980	0.870	19.55	11.48f	13.61p	6.02	-9.78
AFTWING.S	0.980	0.870	19.87	6.98a	13.79s	5.78	-9.88
AFTWING.P	0.980	0.870	19.87	6.98a	13.79p	5.78	-9.88
DAYTANK.P	0.980	0.870	11.70	56.14a	10.17p	11.24	-14.72
WATER.S	1.000	1.000	24.87	29.23a	13.97s	8.63	-14.70
WATER.P	1.000	1.000	24.87	29.23a	13.97p	8.63	-14.70
LUBEOIL.P	0.981	0.924	4.76	43.86a	7.24p	9.57	-14.54
SEWAGE.S	0.500	1.025	7.03	55.85a	10.01s	9.66	-11.72
Total Tanks			406.14	3.17a	0.20p	8.28	
Total Weight			1,050.57	2.28a	0.00	12.95	
HULL	Righting Arms:	Displ(LT)	LCB	TCB	VCB		
	1.025	1,050.54	2.25a	0.00	7.72	-13.11	
Part	LPA	LCP	HCP	LPA	LCP	HCP	
Displacers	1392.2	2.75f	-5.92	776.0	0.22a	5.02	
Sails				1308.3	7.09f	11.27	
Total Lateral Plane->	1392.2	2.75f	-5.92	2084.4	4.37f	8.94	
Distances in FEET.							
Least freeboard is 1.22 Ft located at 0.00							

ER Vent (Downflood) Height: 10.16ft PATRICIA LEE Load Line Height: -0.16ft

Note: Heel Corrected by Shifting Top Tier Pots 5.55 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	3.22 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	0.71 P
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	40.63 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	18.08 P
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	13.78 P
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	4.30 F
(7)	Angle from abs 0 deg to RAzero	> 50.00 deg	65.00 P

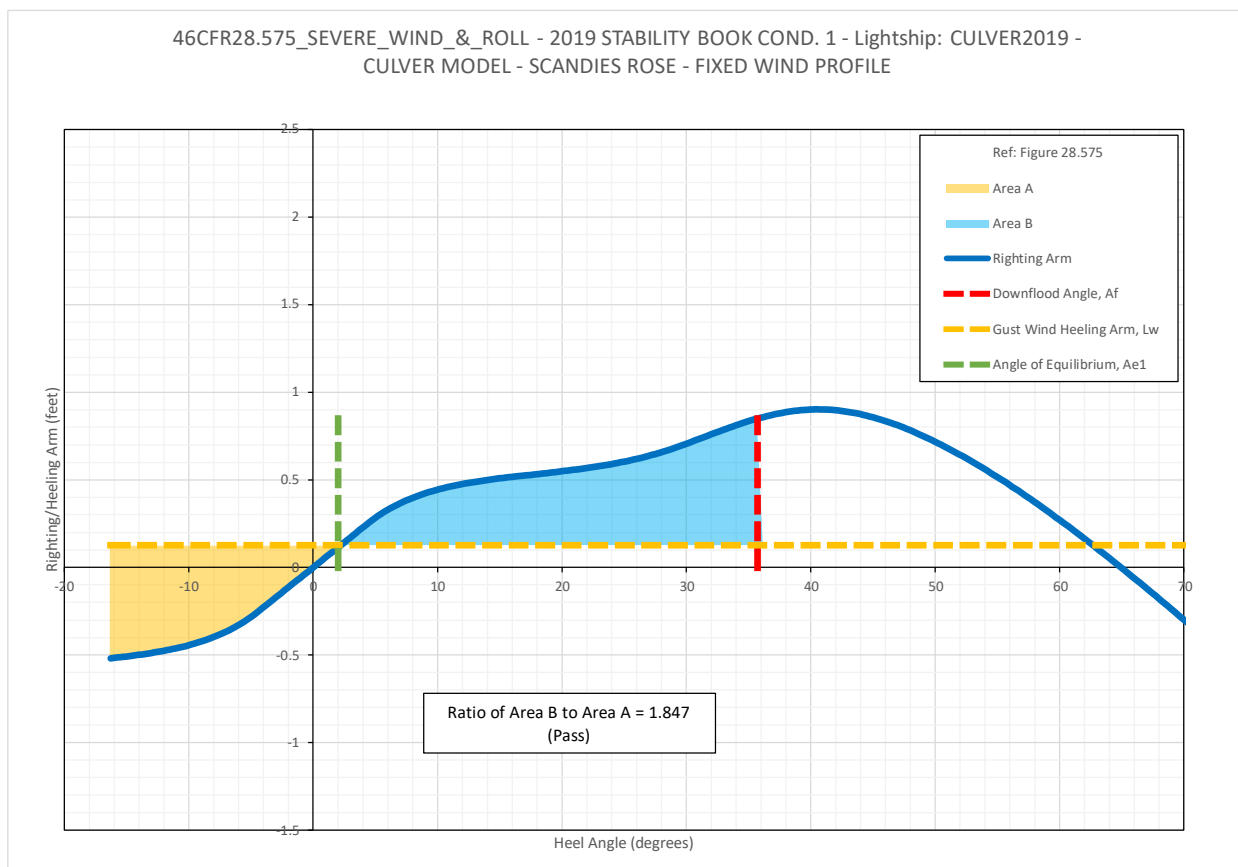
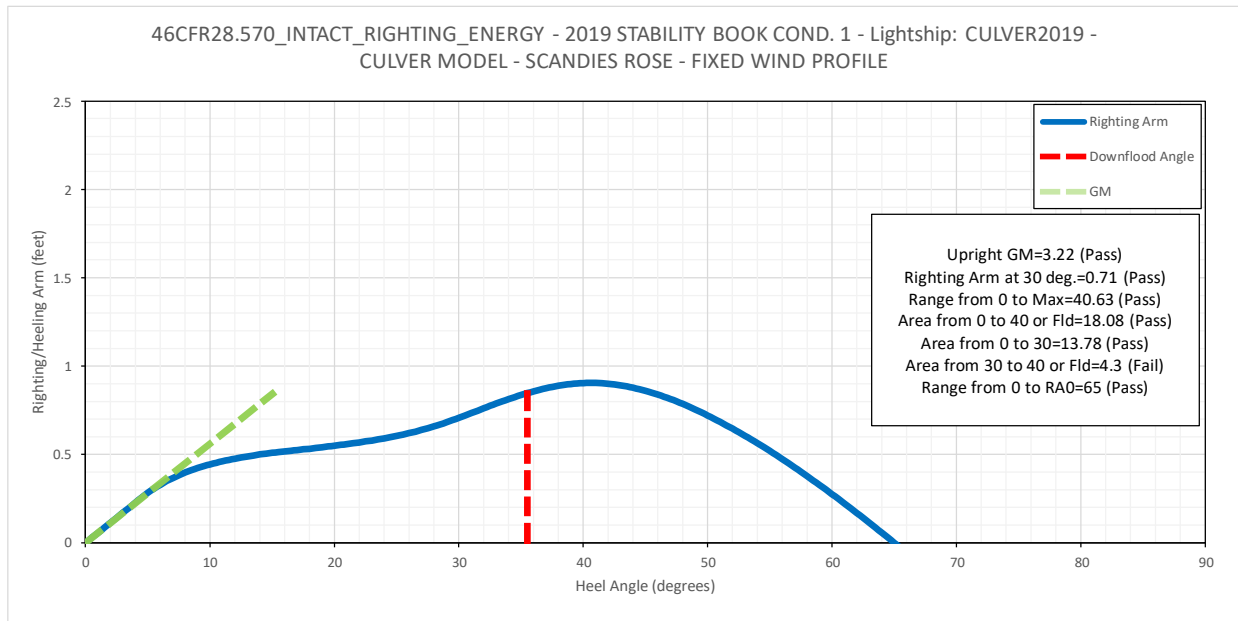
LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	3.22 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	40.63 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	18.08 P
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	4.30 F
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	22.59 P

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	2.01 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	1.847 P
(3)	Res. Area Ratio from Roll to Flood or RAzero	> 1.000	1.847 P

Roll angle = 18.29 degrees.

IMO parameters:

K = 0.700	X1 = 0.965	X2 = 0.988	Cb = 0.668
L = 123.38	B = 34.00	D = 13.12	BDR = 2.592
VCG = 12.95	Draft = 13.09	WG = -0.15	R = 0.723
T = 8.7	C = 0.460	GM = 3.22	S = 0.088



11/01/20 16:09:57
GHS 17.34B

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CULVER MODEL - SCANDIES ROSE - FIXED WIND PROFILE
2019 STABILITY BOOK COND. 2

Page A14
SR-INV

75% Consum., 208 Pots, Holds 2 and 3 Full
Light Ship Source: Culver2019

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS

Baseline draft: 12.690 @ 60.63f, 12.647 @ 0.00, 12.605 @ 60.63a
Trim: Fwd 0.09/121.25, Heel: zero

Part	Weight(LT)	LCG	TCG	VCG	
LIGHT SHIP Culver2019	548.32	3.30a	0.00	14.69	
Crew and Stores	2.50	8.60a	0.00	16.80	
Pots-Tier1: 88	32.80	8.50f	0.00	18.75	
Pots-Tier2: 40	14.91	8.50f	0.00	23.67	
Pots-Tier3: 40	14.91	8.50f	0.00	26.50	
Pots-Tier4: 40	14.91	8.50f	5.56s	29.33	
Icing	16.08	3.89f	0.00	21.37	
Total Fixed	644.43	1.72a	0.13s	15.89	

	Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99	
HOLD3.C	1.000	1.025	110.41	7.15a	0.00	8.79	
MIDWING.S	0.570	0.870	11.37	11.22f	13.52s	4.39	-6.70
MIDWING.P	0.570	0.870	11.37	11.22f	13.52p	4.39	-6.70
AFTWING.S	0.980	0.870	19.87	7.00a	13.79s	5.78	-9.84
AFTWING.P	0.980	0.870	19.87	7.00a	13.79p	5.78	-9.84
DAYTANK.P	0.980	0.870	11.70	56.15a	10.17p	11.24	-14.42
WATER.S	0.750	1.000	18.65	29.10a	13.93s	7.16	-11.61
WATER.P	0.750	1.000	18.65	29.10a	13.93p	7.16	-11.61
LUBEOIL.P	0.981	0.924	4.76	43.86a	7.24p	9.57	-14.31
SEWAGE.S	0.500	1.025	7.03	55.86a	10.01s	9.66	-11.42
Total Tanks			359.31	4.55a	0.23p	8.19	
Total Weight			1,003.74	2.73a	0.00	13.13	

	Displ(LT)	LCB	TCB	VCB	
HULL	1,003.74	2.73a	0.00	7.48	-12.65
Righting Arms:		0.00	0.00		

Part	LPA	LCP	HCP	LPA	LCP	HCP
Displacers	1334.0	2.18f	-5.69	834.2	0.75f	5.13
Sails				1308.3	6.97f	11.78
Total Lateral Plane->	1334.0	2.18f	-5.69	2142.6	4.55f	9.19

Distances in FEET.
Least freeboard is 1.68 Ft located at 0.00

ER Vent (Downflood) Height: 10.47ft PATRICIA LEE Load Line Height: 0.31ft

Note: Heel Corrected by Shifting Top Tier Pots 5.56 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	3.10 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	0.77 P
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	39.64 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	21.27 P
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	15.47 P
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	5.80 P
(7)	Angle from abs 0 deg to RAzero	> 50.00 deg	63.21 P

LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	3.10 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	39.64 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	21.27 P
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	5.80 P
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	23.87 P

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	2.29 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	2.075 P
(3)	Res. Area Ratio from Roll to Flood or RAzero	> 1.000	2.075 P

Roll angle = 18.18 degrees.

IMO parameters:

K = 0.700	X1 = 0.949	X2 = 0.986	Cb = 0.665
L = 122.96	B = 34.00	D = 12.65	BDR = 2.688
VCG = 13.13	Draft = 12.64	WG = 0.49	R = 0.753
T = 8.9	C = 0.462	GM = 3.10	S = 0.086

11/01/20 16:09:57
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2019 STABILITY BOOK COND. 3

Page A15
SR-INV

50% Consum., 208 Pots, Holds 2 and 3 Full
Light Ship Source: Culver2019

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS

Baseline draft: 11.964 @ 60.63f, 12.479 @ 0.00, 12.993 @ 60.63a
Trim: Aft 1.03/121.25, Heel: zero

Part	Weight(LT)	LCG	TCG	VCG	RefHt		
LIGHT SHIP Culver2019	548.32	3.30a	0.00	14.69			
Crew and Stores	2.50	8.60a	0.00	16.80			
Pots-Tier1: 88	32.80	8.50f	0.00	18.75			
Pots-Tier2: 40	14.91	8.50f	0.00	23.67			
Pots-Tier3: 40	14.91	8.50f	0.00	26.50			
Pots-Tier4: 40	14.91	8.50f	7.97s	29.33			
Icing	16.08	3.89f	0.00	21.37			
Total Fixed	644.43	1.72a	0.18s	15.89			
Part	Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99	
HOLD3.C	1.000	1.025	110.41	7.15a	0.00	8.79	
AFTWING.S	0.980	0.870	19.87	7.03a	13.79s	5.78	-9.78
AFTWING.P	0.980	0.870	19.87	7.03a	13.79p	5.78	-9.78
AFTFUEL.S	0.406	0.870	9.82	45.15a	10.53s	7.49	-8.99
AFTFUEL.P	0.617	0.870	12.10	45.82a	11.51p	8.60	-10.90
DAYTANK.P	0.980	0.870	11.70	56.16a	10.17p	11.23	-13.90
WATER.S	0.500	1.000	12.44	28.90a	13.88s	5.67	-8.46
WATER.P	0.500	1.000	12.44	28.90a	13.88p	5.67	-8.46
LUBEOIL.P	0.981	0.924	4.76	43.87a	7.24p	9.57	-13.91
SEWAGE.S	0.500	1.025	7.03	55.88a	10.01s	9.66	-10.91
Total Tanks			346.07	7.29a	0.34p	8.36	
Total Weight			990.50	3.67a	0.00	13.26	
Part	Displ(LT)	LCB	TCB	VCB	RefHt		
HULL	990.50	3.72a	0.00	7.42	-12.48		
Righting Arms:							
		0.00	0.00				
Part	LPA	LCP	HCP	LPA	LCP	HCP	
Displacers	1312.3	1.04f	-5.59	855.9	2.27f	5.18	
Sails				1308.3	6.74f	12.01	
Total Lateral Plane->	1312.3	1.04f	-5.59	2164.2	4.97f	9.31	
Distances in FEET.							
Least freeboard is 1.72 Ft located at 18.15a							

ER Vent (Downflood) Height: 10.34ft

PATRICIA LEE Load Line Height: 0.48ft

Note: Heel Corrected by Shifting Top Tier Pots 7.97 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	2.96 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	0.78 P
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	38.70 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	21.14 P
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	15.59 P
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	5.55 F
(7)	Angle from abs 0 deg to RAzero	> 50.00 deg	61.41 P

LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	2.96 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	38.70 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	21.14 P
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	5.55 F
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	23.02 P

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	2.45 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	2.107 P
(3)	Res. Area Ratio from Roll to Flood or RAzero	> 1.000	2.107 P

Roll angle = 18.09 degrees.

IMO parameters:

K = 0.700	X1 = 0.943	X2 = 0.987	Cb = 0.666
L = 122.65	B = 34.00	D = 12.48	BDR = 2.725
VCG = 13.26	Draft = 12.52	WG = 0.75	R = 0.766
T = 9.2	C = 0.463	GM = 2.96	S = 0.085

11/01/20 16:09:57
GHS 17.34B

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CULVER MODEL - SCANDIES ROSE - FIXED WIND PROFILE
2019 STABILITY BOOK COND. 4

Page A16
SR-INV

25% Consum., 208 Pots, Holds 2 and 3 Full
Light Ship Source: Culver2019

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS

Baseline draft: 12.405 @ 60.63f, 12.205 @ 0.00, 12.004 @ 60.63a

Trim: Fwd 0.40/121.25, Heel: zero

Part	Weight(LT)	LCG	TCG	VCG		
LIGHT SHIP Culver2019	548.32	3.30a	0.00	14.69		
Crew and Stores	2.50	8.60a	0.00	16.80		
Pots-Tier1: 88	32.80	8.50f	0.00	18.75		
Pots-Tier2: 40	14.91	8.50f	0.00	23.67		
Pots-Tier3: 40	14.91	8.50f	0.00	26.50		
Pots-Tier4: 40	14.91	8.50f	5.55s	29.33		
Icing	16.08	3.89f	0.00	21.37		
Total Fixed	644.43	1.72a	0.13s	15.89		
Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99
HOLD3.C	1.000	1.025	110.41	7.15a	0.00	8.79
AFTWING.S	0.980	0.870	19.87	6.99a	13.79s	5.78
AFTWING.P	0.980	0.870	19.87	6.99a	13.79p	5.78
DAYTANK.P	0.980	0.870	11.70	56.14a	10.17p	11.24
WATER.S	0.250	1.000	6.22	28.15a	13.79s	4.10
WATER.P	0.250	1.000	6.22	28.15a	13.79p	4.10
LUBEOIL.P	0.981	0.924	4.76	43.86a	7.24p	9.57
SEWAGE.S	0.500	1.025	7.03	55.85a	10.01s	9.66
Total Tanks			311.71	3.70a	0.27p	8.42
Total Weight			956.14	2.37a	0.00	13.46
HULL	Righting Arms:	Displ(LT)	LCB	TCB	VCB	RefHt
	1.025	956.14	2.35a	0.00	7.24	-12.20
			0.00	0.00		
Part	LPA	LCP	HCP	LPA	LCP	HCP
Displacers	1279.5	2.58f	-5.48	888.7	0.34f	5.24
Sails				1308.3	7.03f	12.20
Total Lateral Plane->	1279.5	2.58f	-5.48	2197.0	4.32f	9.39
Distances in FEET.						
Least freeboard is 2.13 Ft located at 0.00						

ER Vent (Downflood) Height: 10.99ft

PATRICIA LEE Load Line Height: 0.75ft

Note: Heel Corrected by Shifting Top Tier Pots 5.55 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	2.90 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	0.77 P
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	38.89 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	23.53 P
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	15.97 P
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	7.56 P
(7)	Angle from abs 0 deg to RAzero	> 50.00 deg	60.98 P

LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	2.90 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	38.89 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	23.53 P
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	7.56 P
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	23.50 P

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	2.64 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	2.302 P
(3)	Res. Area Ratio from Roll to Flood or RAzero	> 1.000	2.302 P

Roll angle = 18.04 degrees.

IMO parameters:

K = 0.700
L = 122.73
VCG = 13.46
T = 9.3

X1 = 0.932
B = 34.00
Draft = 12.19
C = 0.465

X2 = 0.982
D = 12.20
WG = 1.26
GM = 2.90

Cb = 0.657
BDR = 2.786
R = 0.792
S = 0.084

11/01/20 16:09:57
GHS 17.34B

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CULVER MODEL - SCANDIES ROSE - FIXED WIND PROFILE
2019 STABILITY BOOK COND. 5

Page A17
SR-INV

10% Consum., 208 Pots, Holds 2 and 3 Full
Light Ship Source: Culver2019

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS
Baseline draft: 12.269 @ 60.63f, 11.923 @ 0.00, 11.576 @ 60.63a
Trim: Fwd 0.69/121.25, Heel: zero

Part	Weight(LT)	LCG	TCG	VCG		
LIGHT SHIP Culver2019	548.32	3.30a	0.00	14.69		
Crew and Stores	2.50	8.60a	0.00	16.80		
Pots-Tier1: 88	32.80	8.50f	0.00	18.75		
Pots-Tier2: 40	14.91	8.50f	0.00	23.67		
Pots-Tier3: 40	14.91	8.50f	0.00	26.50		
Pots-Tier4: 40	14.91	8.50f	5.55s	29.33		
Icing	16.08	3.89f	0.00	21.37		
Total Fixed	644.43	1.72a	0.13s	15.89		
Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99
HOLD3.C	1.000	1.025	110.41	7.15a	0.00	8.79
AFTWING.S	0.410	0.870	8.32	6.96a	13.69s	3.40
AFTWING.P	0.410	0.870	8.32	6.96a	13.69p	3.40
DAYTANK.P	0.980	0.870	11.70	56.14a	10.17p	11.24
WATER.S	0.100	1.000	2.49	26.32a	13.60s	2.98
WATER.P	0.100	1.000	2.49	26.32a	13.60p	2.98
LUBEOIL.P	0.981	0.924	4.76	43.86a	7.24p	9.57
SEWAGE.S	0.500	1.025	7.03	55.85a	10.01s	9.66
Total Tanks			281.16	2.75a	0.30p	8.60
Total Weight			925.59	2.03a	0.00	13.68
HULL	1.025	Displ(LT)	LCB	TCB	VCB	
		925.59	2.00a	0.00	7.08	-11.92
Righting Arms:						
			0.00	0.00		
Part	LPA	LCP	HCP	LPA	LCP	HCP
Displacers	1244.9	2.94f	-5.35	923.3	0.01a	5.32
Sails				1308.3	7.09f	12.47
Total Lateral Plane->	1244.9	2.94f	-5.35	2231.6	4.15f	9.51
Distances in FEET.						
Least freeboard is 2.41 Ft located at 0.00						

ER Vent (Downflood) Height: 11.34ft

PATRICIA LEE Load Line Height: 1.03ft

Note: Heel Corrected by Shifting Top Tier Pots 5.55 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	2.79 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	0.76 P
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	38.30 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	24.24 P
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	16.07 P
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	8.17 P
(7)	Angle from abs 0 deg to RAzero	> 50.00 deg	59.05 P

LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	2.79 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	38.30 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	24.24 P
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	8.17 P
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	22.80 P

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	2.90 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	2.435 P
(3)	Res. Area Ratio from Roll to Flood or RAzero	> 1.000	2.435 P

Roll angle = 17.92 degrees.

IMO parameters:

K = 0.700
L = 122.61
VCG = 13.68
T = 9.5

X1 = 0.921
B = 34.00
Draft = 11.90
C = 0.467

X2 = 0.979
D = 11.92
WG = 1.76
GM = 2.79

Cb = 0.652
BDR = 2.852
R = 0.819
S = 0.083

11/01/20 16:09:57
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CULVER MODEL - SCANDIES ROSE - FIXED WIND PROFILE
2019 STABILITY BOOK COND. 6

Page A18
SR-INV

Max Consum., Tendering, All Holds Full
Light Ship Source: Culver2019

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS

Baseline draft: 14.746 @ 60.63f, 13.832 @ 0.00, 12.917 @ 60.63a

Trim: Fwd 1.83/121.25, Heel: zero

Part	Weight(LT)	LCG	TCG	VCG			
LIGHT SHIP Culver2019	548.32	3.30a	0.00	14.69			
Crew and Stores	2.50	8.60a	0.00	16.80			
Tendering Equip	15.00	10.00f	3.37s	19.00			
Total Fixed	565.82	2.97a	0.09s	14.81			
Part	Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD1.C	1.000	1.025	107.78	30.11f	0.00	9.44	
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99	
HOLD3.C	1.000	1.025	110.41	7.15a	0.00	8.79	
FWDWING.S	0.981	0.870	9.01	29.01f	12.93s	6.91	-9.45
FWDWING.P	0.981	0.870	9.01	29.01f	12.93p	6.91	-9.45
MIDWING.S	0.980	0.870	19.55	11.52f	13.61s	6.02	-9.67
MIDWING.P	0.980	0.870	19.55	11.52f	13.61p	6.02	-9.67
AFTWING.S	0.980	0.870	19.87	6.95a	13.79s	5.78	-9.94
AFTWING.P	0.980	0.870	19.87	6.95a	13.79p	5.78	-9.94
AFTFUEL.S	0.980	0.870	23.71	45.56a	10.77s	10.05	-14.99
AFTFUEL.P	0.980	0.870	19.24	45.96a	11.60p	10.17	-15.01
DAYTANK.P	0.980	0.870	11.70	56.13a	10.17p	11.24	-15.23
WATER.S	1.000	1.000	24.87	29.23a	13.97s	8.62	-14.97
WATER.P	1.000	1.000	24.87	29.23a	13.97p	8.62	-14.97
LUBEOIL.P	0.981	0.924	4.76	43.85a	7.24p	9.57	-14.94
SEWAGE.S	0.500	1.025	7.03	55.83a	10.02s	9.66	-12.23
Total Tanks			556.86	0.00a	0.09p	8.65	
Total Weight			1,122.68	1.50a	0.00	11.76	
HULL	Righting Arms:	Displ(LT)	LCB	TCB	VCB		
	1.025	1,122.68	1.45a	0.00	8.10		-13.83
Part	LPA	LCP	HCP	LPA	LCP	HCP	
Displacers	1481.5	3.67f	-6.28	686.7	2.27a	4.91	
Sails				1308.3	7.32f	10.49	
Total Lateral Plane->	1481.5	3.67f	-6.28	1995.0	4.02f	8.57	
Distances in FEET.							
Least freeboard is 0.50 Ft located at 0.00							

ER Vent (Downflood) Height: 9.71ft

PATRICIA LEE Load Line Height: -0.87ft

Note: Heel Corrected by Shifting Tendering Equipment 3.37 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	4.34 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	1.09 P
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	44.21 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	21.73 P
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	17.64 P
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	4.10 F
(7)	Angle from abs 0 deg to RZero	> 50.00 deg	83.29 P

LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	4.34 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	44.21 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	21.73 P
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	4.10 F
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	36.27 P

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	1.32 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	2.143 P
(3)	Res. Area Ratio from Roll to Flood or RZero	> 1.000	2.143 P

Roll angle = 18.39 degrees.

IMO parameters:

K = 0.700
L = 124.06
VCG = 11.76
T = 7.4

X1 = 0.988
B = 34.00
Draft = 13.77
C = 0.456

X2 = 0.990
D = 13.83
WG = -2.05
GM = 4.34

Cb = 0.674
BDR = 2.458
R = 0.641
S = 0.095

11/01/20 16:09:57
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CULVER MODEL - SCANDIES ROSE - FIXED WIND PROFILE
2019 STABILITY BOOK COND. 7

Page A19
SR-INV

75% Consum., Tendering, All Holds Full
Light Ship Source: Culver2019

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS
Baseline draft: 13.993 @ 60.63f, 13.372 @ 0.00, 12.751 @ 60.63a
Trim: Fwd 1.24/121.25, Heel: zero

Part	Weight(LT)	LCG	TCG	VCG			
LIGHT SHIP Culver2019	548.32	3.30a	0.00	14.69			
Crew and Stores	2.50	8.60a	0.00	16.80			
Tendering Equip	15.00	10.00f	3.37s	19.00			
Total Fixed	565.82	2.97a	0.09s	14.81			
Part	Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD1.C	1.000	1.025	107.78	30.11f	0.00	9.44	
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99	
HOLD3.C	1.000	1.025	110.41	7.15a	0.00	8.79	
MIDWING.S	0.570	0.870	11.37	11.29f	13.52s	4.39	-6.59
MIDWING.P	0.570	0.870	11.37	11.29f	13.52p	4.39	-6.59
AFTWING.S	0.980	0.870	19.87	6.97a	13.79s	5.78	-9.91
AFTWING.P	0.980	0.870	19.87	6.97a	13.79p	5.78	-9.91
AFTFUEL.S	0.980	0.870	23.71	45.57a	10.77s	10.05	-14.77
AFTFUEL.P	0.980	0.870	19.23	45.97a	11.60p	10.16	-14.78
DAYTANK.P	0.980	0.870	11.70	56.13a	10.17p	11.24	-14.96
WATER.S	0.750	1.000	18.65	29.07a	13.93s	7.16	-11.89
WATER.P	0.750	1.000	18.65	29.07a	13.93p	7.16	-11.89
LUBEOIL.P	0.981	0.924	4.76	43.86a	7.24p	9.57	-14.73
SEWAGE.S	0.500	1.025	7.03	55.84a	10.02s	9.66	-11.96
Total Tanks			510.03	0.69a	0.10p	8.61	
Total Weight			1,075.85	1.89a	0.00	11.87	
Part	Displ(LT)	LCB	TCB	VCB	RefHt		
HULL	1,075.85	1.85a	0.00	7.86	-13.37		
Righting Arms:							
Part	LPA	LCP	HCP	LPA	LCP	HCP	
Displacers	1424.3	3.21f	-6.05	743.9	1.09a	4.97	
Sails				1308.3	7.20f	10.98	
Total Lateral Plane->	1424.3	3.21f	-6.05	2052.2	4.19f	8.81	
Distances in FEET.							
Least freeboard is 0.96 Ft located at 0.00							

ER Vent (Downflood) Height: 10.03ft PATRICIA LEE Load Line Height: -0.42ft

Note: Heel Corrected by Shifting Tendering Equipment 3.37 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	4.24 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	1.15 P
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	43.43 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	26.08 P
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	19.95 P
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	6.13 P
(7)	Angle from abs 0 deg to RAzero	> 50.00 deg	80.68 P

LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	4.24 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	43.43 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	26.08 P
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	6.13 P
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	38.42 P

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	1.47 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	2.283 P
(3)	Res. Area Ratio from Roll to Flood or RAzero	> 1.000	2.283 P

Roll angle = 18.33 degrees.

IMO parameters:

K = 0.700	X1 = 0.973	X2 = 0.988	Cb = 0.670
L = 123.65	B = 34.00	D = 13.37	BDR = 2.543
VCG = 11.87	Draft = 13.33	WG = -1.48	R = 0.664
T = 7.6	C = 0.459	GM = 4.24	S = 0.094

11/01/20 16:09:57
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CULVER MODEL - SCANDIES ROSE - FIXED WIND PROFILE
2019 STABILITY BOOK COND. 8

Page A20
SR-INV

50% Consum., Tendering, All Holds Full
Light Ship Source: Culver2019

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS

Baseline draft: 13.982 @ 60.63f, 12.873 @ 0.00, 11.765 @ 60.63a
Trim: Fwd 2.22/121.25, Heel: zero

Part	Weight(LT)	LCG	TCG	VCG			
LIGHT SHIP Culver2019	548.32	3.30a	0.00	14.69			
Crew and Stores	2.50	8.60a	0.00	16.80			
Tendering Equip	15.00	10.00f	4.49s	19.00			
Total Fixed	565.82	2.97a	0.12s	14.81			
Part	Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD1.C	1.000	1.025	107.78	30.11f	0.00	9.44	
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99	
HOLD3.C	1.000	1.025	110.41	7.15a	0.00	8.79	
AFTWING.S	0.980	0.870	19.88	6.94a	13.79s	5.79	-9.97
AFTWING.P	0.980	0.870	19.88	6.94a	13.79p	5.79	-9.97
AFTFUEL.S	0.500	0.870	12.10	45.22a	10.60s	7.93	-11.04
AFTFUEL.P	0.500	0.870	9.82	45.63a	11.50p	8.09	-11.16
DAYTANK.P	0.980	0.870	11.70	56.12a	10.17p	11.24	-15.41
WATER.S	0.500	1.000	12.44	28.79a	13.88s	5.67	-9.25
WATER.P	0.500	1.000	12.44	28.79a	13.88p	5.67	-9.25
LUBEOIL.P	0.981	0.924	4.76	43.85a	7.24p	9.57	-15.08
SEWAGE.S	0.500	1.025	7.03	55.82a	10.02s	9.66	-12.41
Total Tanks			453.88	1.61f	0.15p	8.61	
Total Weight			1,019.70	0.93a	0.00	12.05	
Part	Righting Arms:		Displ(LT)	LCB	TCB	VCB	
HULL		1.025	1,019.70	0.85a	0.00	7.58	-12.87
Part	LPA	LCP	HCP	LPA	LCP	HCP	
Displacers	1363.5	4.30f	-5.84	804.7	2.36a	5.09	
Sails				1308.3	7.39f	11.43	
Total Lateral Plane->	1363.5	4.30f	-5.84	2113.1	3.68f	9.01	
Distances in FEET.							
Least freeboard is 1.46 Ft located at 0.00							

ER Vent (Downflood) Height: 10.76ft

PATRICIA LEE Load Line Height: 0.08ft

Note: Heel Corrected by Shifting Tendering Equipment 4.49 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	4.18 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	1.18 P
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	42.50 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	31.78 P
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	21.57 P
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	10.21 P
(7)	Angle from abs 0 deg to RAzero	> 50.00 deg	78.20 P

LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	4.18 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	42.50 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	31.78 P
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	10.21 P
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	39.11 P

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	1.63 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	2.589 P
(3)	Res. Area Ratio from Roll to Flood or RAzero	> 1.000	2.589 P

Roll angle = 18.27 degrees.

IMO parameters:

K = 0.700	X1 = 0.957	X2 = 0.984	Cb = 0.660
L = 123.52	B = 34.00	D = 12.87	BDR = 2.641
VCG = 12.05	Draft = 12.80	WG = -0.80	R = 0.693
T = 7.7	C = 0.461	GM = 4.18	S = 0.094

11/01/20 16:09:57
GHS 17.34B

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CULVER MODEL - SCANDIES ROSE - FIXED WIND PROFILE
2019 STABILITY BOOK COND. 9

Page A21
SR-INV

25% Consum., Tendering, All Holds Full
Light Ship Source: Culver2019

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS

Baseline draft: 14.403 @ 60.63f, 12.593 @ 0.00, 10.782 @ 60.63a

Trim: Fwd 3.62/121.25, Heel: zero

Part	Weight(LT)	LCG	TCG	VCG			
LIGHT SHIP Culver2019	548.32	3.30a	0.00	14.69			
Crew and Stores	2.50	8.60a	0.00	16.80			
Tendering Equip	15.00	10.00f	5.52s	19.00			
Total Fixed	565.82	2.97a	0.15s	14.81			
Part	Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD1.C	1.000	1.025	107.78	30.11f	0.00	9.44	
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99	
HOLD3.C	1.000	1.025	110.41	7.15a	0.00	8.79	
AFTWING.S	0.980	0.870	19.88	6.92a	13.79s	5.79	-10.06
AFTWING.P	0.980	0.870	19.88	6.92a	13.79p	5.79	-10.06
DAYTANK.P	0.980	0.870	11.70	56.11a	10.17p	11.24	-16.07
WATER.S	0.250	1.000	6.22	27.94a	13.79s	4.11	-6.62
WATER.P	0.250	1.000	6.22	27.94a	13.79p	4.11	-6.62
LUBEOIL.P	0.981	0.924	4.76	43.84a	7.24p	9.57	-15.59
SEWAGE.S	0.500	1.025	7.03	55.80a	10.02s	9.66	-13.06
Total Tanks			419.52	5.00f	0.20p	8.69	
Total Weight			985.34	0.42f	0.00	12.20	
HULL	Righting Arms:	SpGr	Disp(LT)	LCB	TCB	VCB	RefHt
	1.025		985.34	0.56f	0.00	7.44	-12.59
Part	LPA	LCP	HCP	LPA	LCP	HCP	
Displacers	1329.8	5.83f	-5.76	838.3	4.19a	5.20	
Sails				1308.3	7.68f	11.62	
Total Lateral Plane->	1329.8	5.83f	-5.76	2146.7	3.04f	9.12	
Distances in FEET.							
Least freeboard is 1.74 Ft located at 0.00							

ER Vent (Downflood) Height: 11.38ft

PATRICIA LEE Load Line Height: 0.36ft

Note: Heel Corrected by Shifting Tendering Equipment 5.52 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	4.20 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	1.18 P
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	42.50 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	35.96 P
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	22.20 P
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	13.75 P
(7)	Angle from abs 0 deg to RAzero	> 50.00 deg	77.55 P

LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	4.20 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	42.50 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	35.96 P
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	13.75 P
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	39.82 P

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	1.72 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	2.847 P
(3)	Res. Area Ratio from Roll to Flood or RAzero	> 1.000	2.847 P

Roll angle = 18.24 degrees.

IMO parameters:

K = 0.700
L = 123.64
VCG = 12.20
T = 7.7

X1 = 0.947
B = 34.00
Draft = 12.48
C = 0.463

X2 = 0.979
D = 12.59
WG = -0.40
GM = 4.20

Cb = 0.652
BDR = 2.700
R = 0.711
S = 0.094

11/01/20 16:09:57
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CULVER MODEL - SCANDIES ROSE - FIXED WIND PROFILE
2019 STABILITY BOOK COND. 10

Page A22
SR-INV

10% Consum., Tendering, All Holds Full
Light Ship Source: Culver2019

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS

Baseline draft: 14.276 @ 60.63f, 12.312 @ 0.00, 10.348 @ 60.63a

Trim: Fwd 3.93/121.25, Heel: zero

Part	Weight(LT)	LCG	TCG	VCG			
LIGHT SHIP Culver2019	548.32	3.30a	0.00	14.69			
Crew and Stores	2.50	8.60a	0.00	16.80			
Tendering Equip	15.00	10.00f	5.54s	19.00			
Total Fixed	565.82	2.97a	0.15s	14.81			
Part	Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD1.C	1.000	1.025	107.78	30.11f	0.00	9.44	
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99	
HOLD3.C	1.000	1.025	110.41	7.15a	0.00	8.79	
AFTWING.S	0.410	0.870	8.32	6.75a	13.69s	3.40	-5.36
AFTWING.P	0.410	0.870	8.32	6.75a	13.69p	3.40	-5.36
DAYTANK.P	0.980	0.870	11.70	56.11a	10.17p	11.24	-16.21
WATER.S	0.100	1.000	2.49	26.13a	13.61s	2.98	-4.76
WATER.P	0.100	1.000	2.49	26.13a	13.61p	2.98	-4.76
LUBEOIL.P	0.981	0.924	4.76	43.84a	7.24p	9.57	-15.70
SEWAGE.S	0.500	1.025	7.03	55.80a	10.02s	9.66	-13.20
Total Tanks			388.95	6.37f	0.21p	8.83	
Total Weight			954.77	0.83f	0.00	12.38	
HULL	Righting Arms:	SpGr	Disp(LT)	LCB	TCB	VCB	RefHt
	1.025		954.77	1.00f	0.00	7.29	-12.31
				0.00	0.00		
Part	LPA	LCP	HCP	LPA	LCP	HCP	
Displacers	1295.4	6.28f	-5.64	872.8	4.39a	5.29	
Sails				1308.3	7.74f	11.88	
Total Lateral Plane->	1295.4	6.28f	-5.64	2181.1	2.88f	9.24	
Distances in FEET.							
Least freeboard is 1.99 Ft located at 12.10f							

ER Vent (Downflood) Height: 11.73ft

PATRICIA LEE Load Line Height: 0.65ft

Note: Heel Corrected by Shifting Tendering Equipment 5.54 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	4.12 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	1.18 P
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	42.50 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	36.17 P
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	22.64 P
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	13.53 P
(7)	Angle from abs 0 deg to RAzero	> 50.00 deg	75.45 P

LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	4.12 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	42.50 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	36.17 P
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	13.53 P
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	39.93 P

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	1.85 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	2.996 P
(3)	Res. Area Ratio from Roll to Flood or RAzero	> 1.000	2.996 P

Roll angle = 18.19 degrees.

IMO parameters:

K = 0.700
L = 123.53
VCG = 12.38
T = 7.8

X1 = 0.936
B = 34.00
Draft = 12.19
C = 0.464

X2 = 0.976
D = 12.31
WG = 0.04
GM = 4.12

Cb = 0.646
BDR = 2.761
R = 0.732
S = 0.093

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GHS 17.34B

USCG - SERT - Emergency Use Only
CULVER MODEL - SCANDIES ROSE - FIXED WIND PROFILE
2019 STABILITY BOOK COND. 11

Page A23
SR-INV

Crabbing, 3 Holds Full, 168 Pots
Light Ship Source: Culver2019

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS

Baseline draft: 15.891 @ 60.63f, 13.919 @ 0.00, 11.948 @ 60.63a
Trim: Fwd 3.94/121.25, Heel: zero

Part	Weight(LT)	LCG	TCG	VCG			
LIGHT SHIP Culver2019	548.32	3.30a	0.00	14.69			
Crew and Stores	2.50	8.60a	0.00	16.80			
Pots-Tier1: 88	32.80	8.50f	0.00	18.75			
Pots-Tier2: 40	14.91	8.50f	0.00	23.67			
Pots-Tier3: 40	14.91	8.50f	5.58s	26.50			
Icing	16.08	3.89f	0.00	21.37			
Total Fixed	629.52	1.96a	0.13s	15.57			
Part	Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD1.C	1.000	1.025	107.78	30.11f	0.00	9.44	
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99	
HOLD3.C	1.000	1.025	110.41	7.15a	0.00	8.79	
MIDWING.S	0.980	0.870	19.55	11.56f	13.61s	6.03	-9.49
MIDWING.P	0.980	0.870	19.55	11.56f	13.61p	6.03	-9.49
AFTWING.S	0.980	0.870	19.87	6.91a	13.79s	5.78	-10.08
AFTWING.P	0.980	0.870	19.87	6.91a	13.79p	5.78	-10.08
DAYTANK.P	0.980	0.870	11.70	56.11a	10.17p	11.24	-16.21
WATER.S	1.000	1.000	24.86	29.23a	13.97s	8.62	-15.59
WATER.P	1.000	1.000	24.86	29.23a	13.97p	8.62	-15.59
LUBEOIL.P	0.981	0.924	4.76	43.84a	7.24p	9.57	-15.70
SEWAGE.S	0.500	1.025	7.03	55.80a	10.02s	9.66	-13.20
Total Tanks			495.89	2.91f	0.17p	8.58	
Total Weight			1,125.41	0.18f	0.00	12.49	
Part			Displ(LT)	LCB	TCB	VCB	
HULL		1.025	1,125.41	0.32f	0.00	8.16	-13.91
Righting Arms:							
Part		LPA	LCP	HCP	LPA	LCP	HCP
Displacers		1493.9	5.61f	-6.39	674.3	6.06a	4.99
Sails					1308.3	7.74f	10.28
Total Lateral Plane->		1493.9	5.61f	-6.39	1982.6	3.05f	8.48
Distances in FEET.							
Least freeboard is 0.39 Ft located at 12.10f							

ER Vent (Downflood) Height: 10.13ft

PATRICIA LEE Load Line Height: -0.96ft

Note: Heel Corrected by Shifting Top Tier Pots 5.58 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	3.73 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	0.68 P
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	41.99 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	14.20 F
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	10.60 P
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	3.60 F
(7)	Angle from abs 0 deg to RAzero	> 50.00 deg	69.54 P

LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	3.73 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	41.99 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	14.20 F
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	3.60 F
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	20.36 P

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	1.54 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	1.818 P
(3)	Res. Area Ratio from Roll to Flood or RAzero	> 1.000	1.818 P

Roll angle = 18.47 degrees.

IMO parameters:

K = 0.700	X1 = 0.991	X2 = 0.987	Cb = 0.668
L = 124.58	B = 34.00	D = 13.92	BDR = 2.442
VCG = 12.49	Draft = 13.81	WG = -1.43	R = 0.668
T = 8.0	C = 0.456	GM = 3.73	S = 0.092

11/01/20 16:09:57
GHS 17.34B

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CULVER MODEL - SCANDIES ROSE - FIXED WIND PROFILE
2019 STABILITY BOOK COND. 1

Page A24
SR-INV

Max Consum., 208 Pots, Holds 2 and 3 full
Light Ship Source: MSC2019

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS
Baseline draft: 14.752 @ 60.63f, 13.459 @ 0.00, 12.167 @ 60.63a
Trim: Fwd 2.59/121.25, Heel: zero

Part	Weight(LT)	LCG	TCG	VCG			
LIGHT SHIP MSC2019	578.33	0.52a	0.00	15.26			
Crew and Stores	2.50	8.60a	0.00	16.80			
Pots-Tier1: 88	32.80	8.50f	0.00	18.75			
Pots-Tier2: 40	14.91	8.50f	0.00	23.67			
Pots-Tier3: 40	14.91	8.50f	0.00	26.50			
Pots-Tier4: 40	14.91	8.50f	5.57s	29.33			
Icing	16.08	3.89f	0.00	21.37			
Total Fixed	674.44	0.59f	0.12s	16.33			
Part	Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99	
HOLD3.C	1.000	1.025	110.41	7.15a	0.00	8.79	
FWDWING.S	0.981	0.870	9.01	29.03f	12.93s	6.91	-9.27
FWDWING.P	0.981	0.870	9.01	29.03f	12.93p	6.91	-9.27
MIDWING.S	0.980	0.870	19.55	11.54f	13.61s	6.02	-9.60
MIDWING.P	0.980	0.870	19.55	11.54f	13.61p	6.02	-9.60
AFTWING.S	0.980	0.870	19.87	6.93a	13.79s	5.78	-9.98
AFTWING.P	0.980	0.870	19.87	6.93a	13.79p	5.78	-9.98
DAYTANK.P	0.980	0.870	11.70	56.12a	10.17p	11.24	-15.58
WATER.S	1.000	1.000	24.87	29.23a	13.97s	8.62	-15.19
WATER.P	1.000	1.000	24.87	29.23a	13.97p	8.62	-15.19
LUBEOIL.P	0.981	0.924	4.76	43.85a	7.24p	9.57	-15.21
SEWAGE.S	0.500	1.025	7.03	55.82a	10.02s	9.66	-12.58
Total Tanks			406.12	3.15a	0.20p	8.28	
Total Weight			1,080.56	0.82a	0.00	13.30	
HULL		1.025	Displ(LT)	LCB	TCB	VCB	
			1,080.56	0.70a	0.00	7.90	-13.46
		Righting Arms:		0.00	0.00		
Part	LPA	LCP	HCP	LPA	LCP	HCP	
Displacers	1436.1	4.48f	-6.13	732.1	3.29a	4.99	
Sails				1308.3	7.47f	10.82	
Total Lateral Plane->	1436.1	4.48f	-6.13	2040.4	3.61f	8.73	
Distances in FEET.							
Least freeboard is 0.87 Ft located at 0.00							

ER Vent (Downflood) Height: 10.26ft

PATRICIA LEE Load Line Height: -0.50ft

Note: Heel Corrected by Shifting Top Tier Pots 5.57 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	2.89 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	0.41 F
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	39.17 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	10.78 F
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	8.17 F
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	2.61 F
(7)	Angle from abs 0 deg to RAzero	> 50.00 deg	57.67 P

LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	2.89 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	39.17 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	10.78 F
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	2.61 F
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	12.68 F

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	2.13 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	1.243 P
(3)	Res. Area Ratio from Roll to Flood or RAzero	> 1.000	1.243 P

Roll angle = 18.21 degrees.

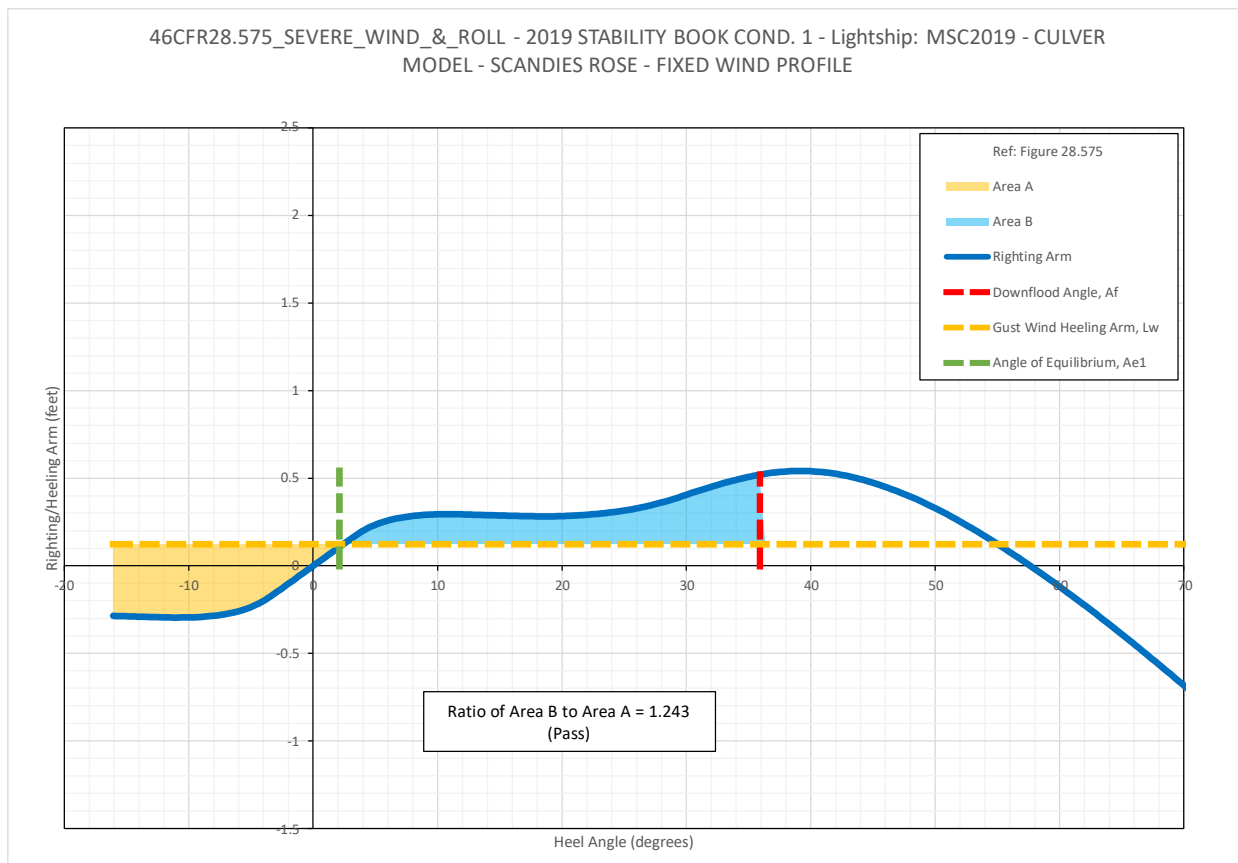
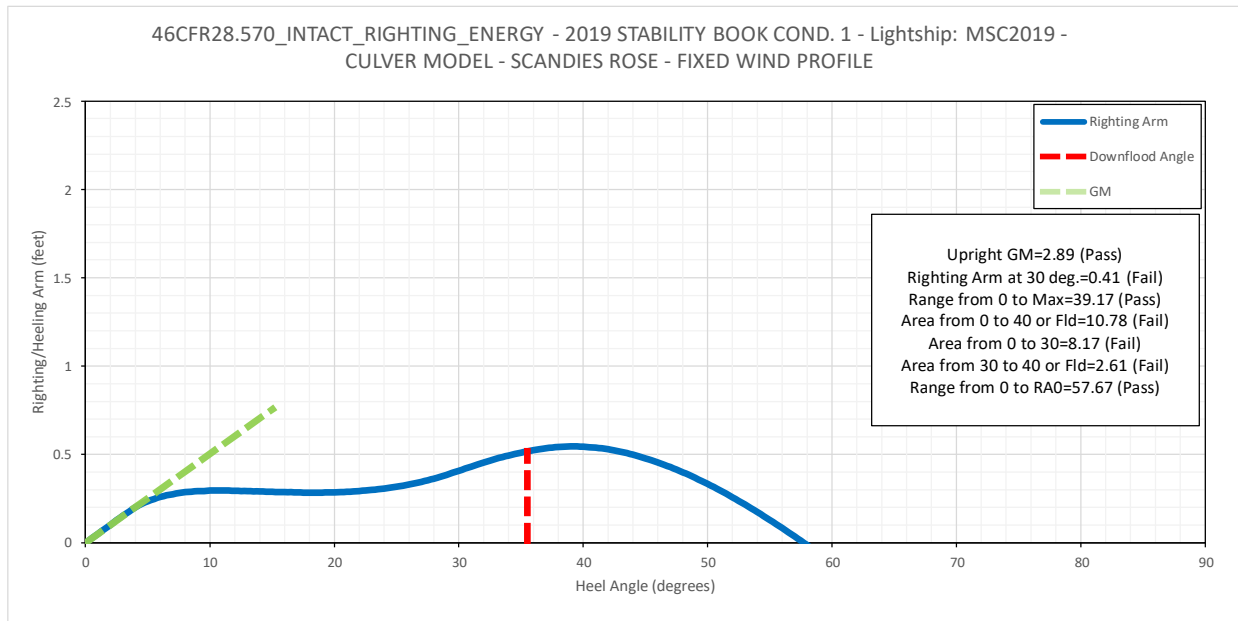
IMO parameters:

K = 0.700
L = 123.98
VCG = 13.30
T = 9.2

X1 = 0.976
B = 34.00
Draft = 13.38
C = 0.458

X2 = 0.987
D = 13.46
WG = -0.14
GM = 2.89

Cb = 0.667
BDR = 2.526
R = 0.724
S = 0.085



11/01/20 16:09:57
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CULVER MODEL - SCANDIES ROSE - FIXED WIND PROFILE
2019 STABILITY BOOK COND. 2

Page A25
SR-INV

75% Consum., 208 Pots, Holds 2 and 3 Full
Light Ship Source: MSC2019

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS

Baseline draft: 13.994 @ 60.63f, 12.999 @ 0.00, 12.004 @ 60.63a

Trim: Fwd 1.99/121.25, Heel: zero

Part	Weight(LT)	LCG	TCG	VCG	
LIGHT SHIP MSC2019	578.33	0.52a	0.00	15.26	
Crew and Stores	2.50	8.60a	0.00	16.80	
Pots-Tier1: 88	32.80	8.50f	0.00	18.75	
Pots-Tier2: 40	14.91	8.50f	0.00	23.67	
Pots-Tier3: 40	14.91	8.50f	0.00	26.50	
Pots-Tier4: 40	14.91	8.50f	5.60s	29.33	
Icing	16.08	3.89f	0.00	21.37	
Total Fixed	674.44	0.59f	0.12s	16.33	

	Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99	
HOLD3.C	1.000	1.025	110.41	7.15a	0.00	8.79	
MIDWING.S	0.570	0.870	11.37	11.34f	13.52s	4.39	-6.51
MIDWING.P	0.570	0.870	11.37	11.34f	13.52p	4.39	-6.51
AFTWING.S	0.980	0.870	19.87	6.95a	13.79s	5.78	-9.95
AFTWING.P	0.980	0.870	19.87	6.95a	13.79p	5.78	-9.95
DAYTANK.P	0.980	0.870	11.70	56.13a	10.17p	11.24	-15.31
WATER.S	0.750	1.000	18.65	29.05a	13.93s	7.16	-12.07
WATER.P	0.750	1.000	18.65	29.05a	13.93p	7.16	-12.07
LUBEOIL.P	0.981	0.924	4.76	43.85a	7.24p	9.57	-15.00
SEWAGE.S	0.500	1.025	7.03	55.83a	10.02s	9.66	-12.30
Total Tanks			359.31	4.53a	0.23p	8.19	
Total Weight			1,033.75	1.19a	0.00	13.50	

	Disp(LT)	LCB	TCB	VCB	
HULL	1,033.75	1.09a	0.00	7.65	-13.00
Righting Arms:		0.00	0.00		

Part	LPA	LCP	HCP	LPA	LCP	HCP
Displacers	1378.8	4.03f	-5.89	789.4	2.09a	5.06
Sails				1308.3	7.35f	11.31
Total Lateral Plane->	1378.8	4.03f	-5.89	2097.7	3.80f	8.96

Distances in FEET.
Least freeboard is 1.33 Ft located at 0.00

ER Vent (Downflood) Height: 10.58ft

PATRICIA LEE Load Line Height: -0.04ft

Note: Heel Corrected by Shifting Top Tier Pots 5.60 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	2.73 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	0.43 F
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	39.24 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	13.37 F
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	9.87 F
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	3.51 F
(7)	Angle from abs 0 deg to RAzero	> 50.00 deg	56.48 P

LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	2.73 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	39.24 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	13.37 F
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	3.51 F
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	14.65 P

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	2.46 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	1.441 P
(3)	Res. Area Ratio from Roll to Flood or RAzero	> 1.000	1.441 P

Roll angle = 18.05 degrees.

IMO parameters:

K = 0.700	X1 = 0.961	X2 = 0.985	Cb = 0.663
L = 123.56	B = 34.00	D = 13.00	BDR = 2.616
VCG = 13.50	Draft = 12.93	WG = 0.52	R = 0.754
T = 9.5	C = 0.460	GM = 2.73	S = 0.083

11/01/20 16:09:57
GHS 17.34B

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CULVER MODEL - SCANDIES ROSE - FIXED WIND PROFILE
2019 STABILITY BOOK COND. 3

Page A26
SR-INV

50% Consum., 208 Pots, Holds 2 and 3 Full
Light Ship Source: MSC2019

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS

Baseline draft: 13.287 @ 60.63f, 12.836 @ 0.00, 12.386 @ 60.63a
Trim: Fwd 0.90/121.25, Heel: Port 0.01 deg.

Part	Weight(LT)	LCG	TCG	VCG	
LIGHT SHIP MSC2019	578.33	0.52a	0.00	15.26	
Crew and Stores	2.50	8.60a	0.00	16.80	
Pots-Tier1: 88	32.80	8.50f	0.00	18.75	
Pots-Tier2: 40	14.91	8.50f	0.00	23.67	
Pots-Tier3: 40	14.91	8.50f	0.00	26.50	
Pots-Tier4: 40	14.91	8.50f	7.95s	29.33	
Icing	16.08	3.89f	0.00	21.37	
Total Fixed	674.44	0.59f	0.18s	16.33	

	Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99	
HOLD3.C	1.000	1.025	110.41	7.15a	0.00	8.79	
AFTWING.S	0.980	0.870	19.87	6.98a	13.79s	5.78	-9.89
AFTWING.P	0.980	0.870	19.87	6.98a	13.79p	5.78	-9.89
AFTFUEL.S	0.406	0.870	9.82	45.10a	10.53s	7.49	-9.73
AFTFUEL.P	0.617	0.870	12.10	45.78a	11.52p	8.60	-11.63
DAYTANK.P	0.980	0.870	11.70	56.14a	10.17p	11.24	-14.80
WATER.S	0.500	1.000	12.44	28.83a	13.88s	5.67	-8.93
WATER.P	0.500	1.000	12.44	28.83a	13.88p	5.67	-8.92
LUBEOIL.P	0.981	0.924	4.76	43.86a	7.24p	9.57	-14.60
SEWAGE.S	0.500	1.025	7.03	55.85a	10.01s	9.66	-11.80
Total Tanks			346.07	7.28a	0.34p	8.36	
Total Weight			1,020.51	2.08a	0.00	13.63	

	Displ(LT)	LCB	TCB	VCB	
HULL	1,020.51	2.03a	0.00	7.57	-12.84
Righting Arms:		0.00	0.00		

Part	LPA	LCP	HCP	LPA	LCP	HCP
Displacers	1357.9	2.98f	-5.79	810.9	0.44a	5.08
Sails				1308.4	7.13f	11.54
Total Lateral Plane->	1357.9	2.98f	-5.79	2119.3	4.23f	9.07

Distances in FEET.
Least freeboard is 1.49 Ft located at 0.00

ER Vent (Downflood) Height: 10.48ft PATRICIA LEE Load Line Height: 0.12ft

Note: Heel Corrected by Shifting Top Tier Pots 7.95 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	2.57 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	0.43 F
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	38.45 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	13.34 F
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	10.08 F
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	3.26 F
(7)	Angle from abs 0 deg to RAzero	> 50.00 deg	54.90 P

LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	2.57 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	38.45 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	13.34 F
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	3.26 F
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	14.25 P

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	2.65 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	1.453 P
(3)	Res. Area Ratio from Roll to Flood or RAzero	> 1.000	1.453 P

Roll angle = 17.90 degrees.

IMO parameters:

K = 0.700	X1 = 0.955	X2 = 0.986	Cb = 0.664
L = 123.24	B = 34.00	D = 12.84	BDR = 2.649
VCG = 13.63	Draft = 12.80	WG = 0.80	R = 0.768
T = 9.8	C = 0.461	GM = 2.57	S = 0.081

11/01/20 16:09:57
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CULVER MODEL - SCANDIES ROSE - FIXED WIND PROFILE
2019 STABILITY BOOK COND. 4

Page A27
SR-INV

25% Consum., 208 Pots, Holds 2 and 3 Full
Light Ship Source: MSC2019

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS

Baseline draft: 13.724 @ 60.63f, 12.559 @ 0.00, 11.394 @ 60.63a

Trim: Fwd 2.33/121.25, Heel: zero

Part	Weight(LT)	LCG	TCG	VCG		
LIGHT SHIP MSC2019	578.33	0.52a	0.00	15.26		
Crew and Stores	2.50	8.60a	0.00	16.80		
Pots-Tier1: 88	32.80	8.50f	0.00	18.75		
Pots-Tier2: 40	14.91	8.50f	0.00	23.67		
Pots-Tier3: 40	14.91	8.50f	0.00	26.50		
Pots-Tier4: 40	14.91	8.50f	5.60s	29.33		
Icing	16.08	3.89f	0.00	21.37		
Total Fixed	674.44	0.59f	0.12s	16.33		
Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99
HOLD3.C	1.000	1.025	110.41	7.15a	0.00	8.79
AFTWING.S	0.980	0.870	19.87	6.94a	13.79s	5.78
AFTWING.P	0.980	0.870	19.87	6.94a	13.79p	5.78
DAYTANK.P	0.980	0.870	11.70	56.12a	10.17p	11.24
WATER.S	0.250	1.000	6.22	28.02a	13.79s	4.10
WATER.P	0.250	1.000	6.22	28.02a	13.79p	4.10
LUBEOIL.P	0.981	0.924	4.76	43.85a	7.24p	9.57
SEWAGE.S	0.500	1.025	7.03	55.82a	10.02s	9.66
Total Tanks			311.71	3.69a	0.27p	8.42
Total Weight			986.15	0.76a	0.00	13.83
HULL	1.025	Displ(LT)	LCB	TCB	VCB	
		986.15	0.64a	0.00	7.41	-12.56
Righting Arms:						
Part	LPA	LCP	HCP	LPA	LCP	HCP
Displacers	1324.7	4.51f	-5.70	843.5	2.36a	5.17
Sails				1308.3	7.42f	11.73
Total Lateral Plane->	1324.7	4.51f	-5.70	2151.8	3.58f	9.16
Distances in FEET.						
Least freeboard is 1.77 Ft located at 0.00						

ER Vent (Downflood) Height: 11.10ft

PATRICIA LEE Load Line Height: 0.40ft

Note: Heel Corrected by Shifting Top Tier Pots 5.60 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	2.52 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	0.41 F
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	38.59 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	14.65 F
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	10.32 P
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	4.33 F
(7)	Angle from abs 0 deg to RAzero	> 50.00 deg	54.33 P

LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	2.52 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	38.59 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	14.65 F
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	4.33 F
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	14.39 P

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	2.88 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	1.543 P
(3)	Res. Area Ratio from Roll to Flood or RAzero	> 1.000	1.543 P

Roll angle = 17.81 degrees.

IMO parameters:

K = 0.700
L = 123.34
VCG = 13.83
T = 9.9

X1 = 0.945
B = 34.00
Draft = 12.48
C = 0.463

X2 = 0.981
D = 12.56
WG = 1.28
GM = 2.52

Cb = 0.655
BDR = 2.707
R = 0.791
S = 0.080

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GHS 17.34B

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CULVER MODEL - SCANDIES ROSE - FIXED WIND PROFILE
2019 STABILITY BOOK COND. 5

Page A28
SR-INV

10% Consum., 208 Pots, Holds 2 and 3 Full
Light Ship Source: MSC2019

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS

Baseline draft: 13.595 @ 60.63f, 12.278 @ 0.00, 10.961 @ 60.63a

Trim: Fwd 2.63/121.25, Heel: zero

Part	Weight(LT)	LCG	TCG	VCG		
LIGHT SHIP MSC2019	578.33	0.52a	0.00	15.26		
Crew and Stores	2.50	8.60a	0.00	16.80		
Pots-Tier1: 88	32.80	8.50f	0.00	18.75		
Pots-Tier2: 40	14.91	8.50f	0.00	23.67		
Pots-Tier3: 40	14.91	8.50f	0.00	26.50		
Pots-Tier4: 40	14.91	8.50f	5.55s	29.33		
Icing	16.08	3.89f	0.00	21.37		
Total Fixed	674.44	0.59f	0.12s	16.33		
Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99
HOLD3.C	1.000	1.025	110.41	7.15a	0.00	8.79
AFTWING.S	0.410	0.870	8.32	6.84a	13.69s	3.40
AFTWING.P	0.410	0.870	8.32	6.84a	13.69p	3.40
DAYTANK.P	0.980	0.870	11.70	56.12a	10.17p	11.24
WATER.S	0.100	1.000	2.49	26.19a	13.61s	2.98
WATER.P	0.100	1.000	2.49	26.19a	13.61p	2.98
LUBEOIL.P	0.981	0.924	4.76	43.85a	7.24p	9.57
SEWAGE.S	0.500	1.025	7.03	55.82a	10.02s	9.66
Total Tanks			281.16	2.74a	0.30p	8.60
Total Weight			955.60	0.39a	0.00	14.05
HULL	1.025	Displ(LT)	LCB	TCB	VCB	
		955.60	0.24a	0.00	7.26	-12.28
Righting Arms:						
			0.00	0.00		
Part	LPA	LCP	HCP	LPA	LCP	HCP
Displacers	1290.3	4.93f	-5.58	877.9	2.64a	5.25
Sails				1308.3	7.48f	12.00
Total Lateral Plane->	1290.3	4.93f	-5.58	2186.3	3.42f	9.29
Distances in FEET.						
Least freeboard is 2.05 Ft located at 0.00						

ER Vent (Downflood) Height: 11.46ft

PATRICIA LEE Load Line Height: 0.68ft

Note: Heel Corrected by Shifting Top Tier Pots 5.55 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	2.38 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	0.38 F
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	37.95 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	14.72 F
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	10.39 P
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	4.34 F
(7)	Angle from abs 0 deg to RAzero	> 50.00 deg	52.39 P

LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	2.38 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	37.95 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	14.72 F
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	4.34 F
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	13.78 P

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	3.18 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	1.565 P
(3)	Res. Area Ratio from Roll to Flood or RAzero	> 1.000	1.565 P

Roll angle = 17.63 degrees.

IMO parameters:

K = 0.700
L = 123.23
VCG = 14.05
T = 10.2

X1 = 0.935
B = 34.00
Draft = 12.19
C = 0.464

X2 = 0.979
D = 12.28
WG = 1.78
GM = 2.38

Cb = 0.650
BDR = 2.769
R = 0.817
S = 0.078

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CULVER MODEL - SCANDIES ROSE - FIXED WIND PROFILE
2019 STABILITY BOOK COND. 6

Page A29
SR-INV

Max Consum., Tendering, All Holds Full
Light Ship Source: MSC2019

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS

Baseline draft: 15.971 @ 60.63f, 14.164 @ 0.00, 12.357 @ 60.63a

Trim: Fwd 3.61/121.25, Heel: zero

Part	Weight(LT)	LCG	TCG	VCG			
LIGHT SHIP MSC2019	578.33	0.52a	0.00	15.26			
Crew and Stores	2.50	8.60a	0.00	16.80			
Tendering Equip	15.00	10.00f	3.38s	19.00			
Total Fixed	595.83	0.29a	0.09s	15.36			
Part	Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD1.C	1.000	1.025	107.78	30.11f	0.00	9.44	
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99	
HOLD3.C	1.000	1.025	110.41	7.15a	0.00	8.79	
FWDWING.S	0.980	0.870	9.01	29.04f	12.93s	6.91	-9.04
FWDWING.P	0.980	0.870	9.01	29.04f	12.93p	6.91	-9.04
MIDWING.S	0.980	0.870	19.55	11.56f	13.61s	6.03	-9.52
MIDWING.P	0.980	0.870	19.55	11.56f	13.61p	6.03	-9.52
AFTWING.S	0.980	0.870	19.87	6.92a	13.79s	5.78	-10.05
AFTWING.P	0.980	0.870	19.87	6.92a	13.79p	5.78	-10.05
AFTFUEL.S	0.980	0.870	23.71	45.54a	10.77s	10.05	-15.66
AFTFUEL.P	0.980	0.870	19.24	45.94a	11.60p	10.17	-15.69
DAYTANK.P	0.980	0.870	11.70	56.11a	10.17p	11.24	-16.06
WATER.S	1.000	1.000	24.86	29.23a	13.97s	8.62	-15.49
WATER.P	1.000	1.000	24.86	29.23a	13.97p	8.62	-15.49
LUBEOIL.P	0.981	0.924	4.76	43.84a	7.24p	9.57	-15.58
SEWAGE.S	0.500	1.025	7.03	55.80a	10.02s	9.66	-13.05
Total Tanks			556.86	0.00f	0.09p	8.65	
Total Weight			1,152.69	0.15a	0.00	12.12	
HULL	Righting Arms:	Displ(LT)	LCB	TCB	VCB		
	1.025	1,152.67	0.03a	0.00	8.29		-14.16
			0.00	0.00			
Part	LPA	LCP	HCP	LPA	LCP	HCP	
Displacers	1524.0	5.22f	-6.50	644.2	5.79a	4.95	
Sails				1308.3	7.67f	10.05	
Total Lateral Plane->	1524.0	5.22f	-6.50	1952.6	3.23f	8.37	
Distances in FEET.							
Least freeboard is 0.17 Ft located at 0.00							

ER Vent (Downflood) Height: 9.80ft

PATRICIA LEE Load Line Height: -1.21ft

Note: Heel Corrected by Shifting Tendering Equipment 3.38 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	4.04 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	0.81 P
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	42.50 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	14.78 F
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	11.72 P
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	3.06 F
(7)	Angle from abs 0 deg to RAZero	> 50.00 deg	75.63 P

LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	4.04 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	42.50 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	14.78 F
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	3.06 F
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	23.74 P

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	1.53 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	2.000 P
(3)	Res. Area Ratio from Roll to Flood or RAZero	> 1.000	2.000 P

Roll angle = 18.48 degrees.

IMO parameters:

K = 0.700
L = 124.66
VCG = 12.12
T = 7.7

X1 = 0.999
B = 34.00
Draft = 14.06
C = 0.455

X2 = 0.989
D = 14.16
WG = -2.04
GM = 4.04

Cb = 0.672
BDR = 2.400
R = 0.644
S = 0.093

11/01/20 16:09:57
GHS 17.34B

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CULVER MODEL - SCANDIES ROSE - FIXED WIND PROFILE
2019 STABILITY BOOK COND. 7

Page A30
SR-INV

75% Consum., Tendering, All Holds Full
Light Ship Source: MSC2019

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS

Baseline draft: 15.245 @ 60.63f, 13.712 @ 0.00, 12.178 @ 60.63a
Trim: Fwd 3.07/121.25, Heel: zero

Part	Weight(LT)	LCG	TCG	VCG			
LIGHT SHIP MSC2019	578.33	0.52a	0.00	15.26			
Crew and Stores	2.50	8.60a	0.00	16.80			
Tendering Equip	15.00	10.00f	3.39s	19.00			
Total Fixed	595.83	0.29a	0.09s	15.36			
Part	Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD1.C	1.000	1.025	107.78	30.11f	0.00	9.44	
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99	
HOLD3.C	1.000	1.025	110.41	7.15a	0.00	8.79	
MIDWING.S	0.570	0.870	11.37	11.40f	13.52s	4.40	-6.41
MIDWING.P	0.570	0.870	11.37	11.40f	13.52p	4.40	-6.41
AFTWING.S	0.980	0.870	19.87	6.92a	13.79s	5.78	-10.02
AFTWING.P	0.980	0.870	19.87	6.92a	13.79p	5.78	-10.02
AFTFUEL.S	0.980	0.870	23.71	45.54a	10.77s	10.05	-15.46
AFTFUEL.P	0.980	0.870	19.23	45.94a	11.60p	10.16	-15.47
DAYTANK.P	0.980	0.870	11.70	56.12a	10.17p	11.24	-15.81
WATER.S	0.750	1.000	18.65	29.03a	13.93s	7.16	-12.33
WATER.P	0.750	1.000	18.65	29.03a	13.93p	7.16	-12.33
LUBEOIL.P	0.981	0.924	4.76	43.85a	7.24p	9.57	-15.39
SEWAGE.S	0.500	1.025	7.03	55.81a	10.02s	9.66	-12.80
Total Tanks			510.04	0.67a	0.10p	8.61	
Total Weight			1,105.87	0.47a	0.00	12.25	
Part	Displ(LT)	LCB	TCB	VCB	RefHt		
HULL	1,105.87	0.36a	0.00	8.04	-13.71		
Righting Arms:							
	1.025	0.00	0.00				
Part	LPA	LCP	HCP	LPA	LCP	HCP	
Displacers	1467.6	4.86f	-6.26	700.6	4.30a	4.97	
Sails				1308.3	7.56f	10.54	
Total Lateral Plane->	1467.6	4.86f	-6.26	2008.9	3.43f	8.60	

Least freeboard is 0.62 Ft located at 0.00

ER Vent (Downflood) Height: 10.13ft

PATRICIA LEE Load Line Height: -0.75ft

Note: Heel Corrected by Shifting Tendering Equipment 3.39 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	3.90 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	0.85 P
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	42.50 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	18.75 P
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	14.11 P
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	4.65 F
(7)	Angle from abs 0 deg to RAzero	> 50.00 deg	73.69 P

LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	3.90 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	42.50 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	18.75 P
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	4.65 F
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	26.87 P

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	1.51 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	2.032 P
(3)	Res. Area Ratio from Roll to Flood or RAzero	> 1.000	2.032 P

Roll angle = 18.41 degrees.

IMO parameters:

K = 0.700
L = 124.25
VCG = 12.25
T = 7.9

X1 = 0.984
B = 34.00
Draft = 13.62
C = 0.457

X2 = 0.988
D = 13.71
WG = -1.45
GM = 3.90

Cb = 0.668
BDR = 2.480
R = 0.667
S = 0.092

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2019 STABILITY BOOK COND. 8

Page A31
SR-INV

50% Consum., Tendering, All Holds Full
Light Ship Source: MSC2019

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS

Baseline draft: 15.241 @ 60.63f, 13.213 @ 0.00, 11.186 @ 60.63a
Trim: Fwd 4.06/121.25, Heel: zero

Part	Weight(LT)	LCG	TCG	VCG			
LIGHT SHIP MSC2019	578.33	0.52a	0.00	15.26			
Crew and Stores	2.50	8.60a	0.00	16.80			
Tendering Equip	15.00	10.00f	4.55s	19.00			
Total Fixed	595.83	0.29a	0.11s	15.36			
Part	Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD1.C	1.000	1.025	107.78	30.11f	0.00	9.44	
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99	
HOLD3.C	1.000	1.025	110.41	7.15a	0.00	8.79	
AFTWING.S	0.980	0.870	19.88	6.91a	13.79s	5.79	-10.09
AFTWING.P	0.980	0.870	19.88	6.91a	13.79p	5.79	-10.09
AFTFUEL.S	0.500	0.870	12.10	45.18a	10.60s	7.93	-11.73
AFTFUEL.P	0.500	0.870	9.82	45.59a	11.51p	8.09	-11.85
DAYTANK.P	0.980	0.870	11.70	56.11a	10.17p	11.24	-16.27
WATER.S	0.500	1.000	12.44	28.73a	13.88s	5.67	-9.69
WATER.P	0.500	1.000	12.44	28.73a	13.88p	5.67	-9.69
LUBEOIL.P	0.981	0.924	4.76	43.84a	7.24p	9.57	-15.74
SEWAGE.S	0.500	1.025	7.03	55.79a	10.02s	9.66	-13.26
Total Tanks			453.88	1.62f	0.15p	8.61	
Total Weight			1,049.71	0.54f	0.00	12.44	
Part	Righting Arms:	Displ(LT)	LCB	TCB	VCB		
HULL	1.025	1,049.71	0.69f	0.00	7.78	-13.21	
Part	LPA	LCP	HCP	LPA	LCP	HCP	
Displacers	1406.8	5.99f	-6.07	761.4	5.40a	5.09	
Sails				1308.3	7.76f	10.98	
Total Lateral Plane->	1406.8	5.99f	-6.07	2069.7	2.92f	8.81	

Least freeboard is 1.08 Ft located at 12.10f

ER Vent (Downflood) Height: 10.86ft

PATRICIA LEE Load Line Height: -0.26ft

Note: Heel Corrected by Shifting Tendering Equipment 4.55 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	3.83 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	0.86 P
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	41.83 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	23.32 P
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	15.65 P
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	7.68 P
(7)	Angle from abs 0 deg to RAzero	> 50.00 deg	71.42 P

LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	3.83 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	41.83 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	23.32 P
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	7.68 P
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	27.84 P

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	1.70 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	2.258 P
(3)	Res. Area Ratio from Roll to Flood or RAzero	> 1.000	2.258 P

Roll angle = 18.33 degrees.

IMO parameters:

K = 0.700
L = 124.14
VCG = 12.44
T = 8.0

X1 = 0.968
B = 34.00
Draft = 13.10
C = 0.459

X2 = 0.983
D = 13.21
WG = -0.79
GM = 3.83

Cb = 0.659
BDR = 2.573
R = 0.694
S = 0.092

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2019 STABILITY BOOK COND. 9

Page A32
SR-INV

25% Consum., Tendering, All Holds Full
Light Ship Source: MSC2019

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS

Baseline draft: 15.657 @ 60.63f, 12.929 @ 0.00, 10.202 @ 60.63a

Trim: Fwd 5.45/121.25, Heel: zero

Part	Weight(LT)	LCG	TCG	VCG			
LIGHT SHIP MSC2019	578.33	0.52a	0.00	15.26			
Crew and Stores	2.50	8.60a	0.00	16.80			
Tendering Equip	15.00	10.00f	5.55s	19.00			
Total Fixed	595.83	0.29a	0.14s	15.36			
Part	Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD1.C	1.000	1.025	107.78	30.11f	0.00	9.44	
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99	
HOLD3.C	1.000	1.025	110.41	7.15a	0.00	8.79	
AFTWING.S	0.980	0.870	19.88	6.90a	13.79s	5.79	-10.20
AFTWING.P	0.980	0.870	19.88	6.90a	13.79p	5.79	-10.20
DAYTANK.P	0.980	0.870	11.70	56.10a	10.17p	11.24	-16.92
WATER.S	0.250	1.000	6.22	27.82a	13.78s	4.11	-7.06
WATER.P	0.250	1.000	6.22	27.82a	13.78p	4.11	-7.06
LUBEOIL.P	0.981	0.924	4.76	43.84a	7.24p	9.57	-16.24
SEWAGE.S	0.500	1.025	7.03	55.77a	10.02s	9.66	-13.90
Total Tanks			419.51	5.00f	0.20p	8.69	
Total Weight			1,015.34	1.90f	0.00	12.60	
HULL	Righting Arms:	SpGr	Displ(LT)	LCB	TCB	VCB	RefHt
	1.025		1,015.34	2.12f	0.00	7.66	-12.92
Part	LPA	LCP	HCP	LPA	LCP	HCP	
Displacers	1372.8	7.51f	-6.00	795.4	7.19a	5.23	
Sails				1308.3	8.04f	11.18	
Total Lateral Plane->	1372.8	7.51f	-6.00	2103.8	2.28f	8.93	
Distances in FEET.							
Least freeboard is 1.21 Ft located at 24.20f							

ER Vent (Downflood) Height: 11.48ft

PATRICIA LEE Load Line Height: 0.03ft

Note: Heel Corrected by Shifting Tendering Equipment 5.55 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	3.85 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	0.86 P
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	41.94 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	26.22 P
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	16.18 P
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	10.04 P
(7)	Angle from abs 0 deg to RAzero	> 50.00 deg	70.66 P

LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	3.85 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	41.94 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	26.22 P
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	10.04 P
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	28.37 P

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	1.79 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	2.464 P
(3)	Res. Area Ratio from Roll to Flood or RAzero	> 1.000	2.464 P

Roll angle = 18.28 degrees.

IMO parameters:

K = 0.700
L = 124.29
VCG = 12.60
T = 8.0

X1 = 0.958
B = 34.00
Draft = 12.78
C = 0.461

X2 = 0.979
D = 12.93
WG = -0.41
GM = 3.85

Cb = 0.651
BDR = 2.630
R = 0.711
S = 0.092

11/01/20 16:09:57
GHS 17.34B

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CULVER MODEL - SCANDIES ROSE - FIXED WIND PROFILE
2019 STABILITY BOOK COND. 10

Page A33
SR-INV

10% Consum., Tendering, All Holds Full
Light Ship Source: MSC2019

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS

Baseline draft: 15.539 @ 60.63f, 12.650 @ 0.00, 9.761 @ 60.63a

Trim: Fwd 5.78/121.25, Heel: zero

Part	Weight(LT)	LCG	TCG	VCG			
LIGHT SHIP MSC2019	578.33	0.52a	0.00	15.26			
Crew and Stores	2.50	8.60a	0.00	16.80			
Tendering Equip	15.00	10.00f	5.51s	19.00			
Total Fixed	595.83	0.29a	0.14s	15.36			
Part	Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD1.C	1.000	1.025	107.78	30.11f	0.00	9.44	
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99	
HOLD3.C	1.000	1.025	110.41	7.15a	0.00	8.79	
AFTWING.S	0.410	0.870	8.32	6.63a	13.69s	3.41	-5.47
AFTWING.P	0.410	0.870	8.32	6.63a	13.69p	3.41	-5.47
DAYTANK.P	0.980	0.870	11.70	56.10a	10.17p	11.24	-17.07
WATER.S	0.100	1.000	2.49	26.02a	13.60s	2.98	-5.17
WATER.P	0.100	1.000	2.49	26.02a	13.60p	2.98	-5.17
LUBEOIL.P	0.981	0.924	4.76	43.83a	7.24p	9.57	-16.36
SEWAGE.S	0.500	1.025	7.03	55.77a	10.02s	9.66	-14.05
Total Tanks			388.94	6.38f	0.21p	8.83	
Total Weight			984.77	2.34f	0.00	12.78	
HULL	Righting Arms:	SpGr	Disp(LT)	LCB	TCB	VCB	RefHt
	1.025		984.77	2.59f	0.00	7.52	-12.64
				0.00	0.00		
Part	LPA	LCP	HCP	LPA	LCP	HCP	
Displacers	1338.5	8.00f	-5.89	829.7	7.30a	5.31	
Sails				1308.3	8.10f	11.43	
Total Lateral Plane->	1338.5	8.00f	-5.89	2138.0	2.13f	9.06	
Distances in FEET.							
Least freeboard is 1.43 Ft located at 24.20f							

ER Vent (Downflood) Height: 11.83ft

PATRICIA LEE Load Line Height: 0.31ft

Note: Heel Corrected by Shifting Tendering Equipment 5.51 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	3.75 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	0.84 P
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	41.16 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	26.31 P
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	16.57 P
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	9.74 P
(7)	Angle from abs 0 deg to RAzero	> 50.00 deg	68.56 P

LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	3.75 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	41.16 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	26.31 P
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	9.74 P
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	27.55 P

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	1.91 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	2.546 P
(3)	Res. Area Ratio from Roll to Flood or RAzero	> 1.000	2.546 P

Roll angle = 18.22 degrees.

IMO parameters:

K = 0.700
L = 124.18
VCG = 12.78
T = 8.1

X1 = 0.949
B = 34.00
Draft = 12.49
C = 0.462

X2 = 0.976
D = 12.65
WG = 0.02
GM = 3.75

Cb = 0.645
BDR = 2.688
R = 0.731
S = 0.091

11/01/20 16:09:57
GHS 17.34B

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CULVER MODEL - SCANDIES ROSE - FIXED WIND PROFILE
2019 STABILITY BOOK COND. 11

Page A34
SR-INV

Crabbing, 3 Holds Full, 168 Pots
Light Ship Source: MSC2019

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS

Baseline draft: 17.180 @ 60.63f, 14.283 @ 0.00, 11.386 @ 60.63a
Trim: Fwd 5.79/121.25, Heel: zero

Part	Weight(LT)	LCG	TCG	VCG			
LIGHT SHIP MSC2019	578.33	0.52a	0.00	15.26			
Crew and Stores	2.50	8.60a	0.00	16.80			
Pots-Tier1: 88	32.80	8.50f	0.00	18.75			
Pots-Tier2: 40	14.91	8.50f	0.00	23.67			
Pots-Tier3: 40	14.91	8.50f	5.58s	26.50			
Icing	16.08	3.89f	0.00	21.37			
Total Fixed	659.53	0.41f	0.13s	16.03			
Part	Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD1.C	1.000	1.025	107.78	30.11f	0.00	9.44	
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99	
HOLD3.C	1.000	1.025	110.41	7.15a	0.00	8.79	
MIDWING.S	0.980	0.870	19.55	11.58f	13.61s	6.03	-9.36
MIDWING.P	0.980	0.870	19.55	11.58f	13.61p	6.03	-9.36
AFTWING.S	0.980	0.870	19.87	6.89a	13.79s	5.78	-10.22
AFTWING.P	0.980	0.870	19.87	6.89a	13.79p	5.78	-10.22
DAYTANK.P	0.980	0.870	11.70	56.10a	10.17p	11.24	-17.08
WATER.S	1.000	1.000	24.86	29.23a	13.97s	8.62	-16.14
WATER.P	1.000	1.000	24.86	29.23a	13.97p	8.62	-16.14
LUBEOIL.P	0.981	0.924	4.76	43.83a	7.24p	9.57	-16.36
SEWAGE.S	0.500	1.025	7.03	55.77a	10.02s	9.66	-14.05
Total Tanks			495.87	2.91f	0.17p	8.58	
Total Weight			1,155.40	1.49f	0.00	12.84	
Part	Load	SpGr	Displ(LT)	LCB	TCB	VCB	RefHt
HULL		1.025	1,155.42	1.70f	0.00	8.37	-14.27
Righting Arms:							
Part	LPA	LCP	HCP	LPA	LCP	HCP	
Displacers	1535.9	7.12f	-6.67	632.3	9.91a	5.08	
Sails	4.3	19.95f	-0.07	1304.1	8.07f	9.83	
Total Lateral Plane->	1540.2	7.15f	-6.65	1936.4	2.20f	8.28	
Distances in FEET.							
Least freeboard is -0.21 Ft located at 24.20f							

ER Vent (Downflood) Height: 10.21ft

PATRICIA LEE Load Line Height: -1.32ft

Note: Heel Corrected by Shifting Top Tier Pots 5.58 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	0.91 F
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	0.41 F
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	40.00 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	6.76 F
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	4.61 F
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	2.15 F
(7)	Angle from abs 0 deg to RAzero	> 50.00 deg	60.60 P

LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	0.91 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	40.00 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	6.76 F
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	2.15 F
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	9.38 F

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	13.41 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	8.823 P
(3)	Res. Area Ratio from Roll to Flood or RAzero	> 1.000	8.823 P

Roll angle = 12.66 degrees.

IMO parameters:

K = 0.700	X1 = 1.000	X2 = 0.986	Cb = 0.665
L = 125.26	B = 34.00	D = 14.28	BDR = 2.381
VCG = 12.84	Draft = 13.71	WG = -1.52	R = 0.666
T = 16.2	C = 0.454	GM = 0.91	S = 0.042

11/01/20 16:09:57
GHS 17.34B

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CULVER MODEL - SCANDIES ROSE - FIXED WIND PROFILE
INVESTIGATING OFFICER'S COND. 1

Page A35
SR-INV

195 Pots, Holds 2 and 3 Full. Fuel and Water Full, 20kip bait
Light Ship Source: Culver2019

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS							
Baseline draft: 13.103 @ 60.63f, 13.515 @ 0.00, 13.928 @ 60.63a							
Trim: Aft 0.83/121.25, Heel: zero							
Part	Weight(LT)	LCG	TCG	VCG			
LIGHT SHIP Culver2019	548.32	3.30a	0.00	14.69			
Crew and Stores	2.50	8.60a	0.00	16.80			
Bait	8.93	50.00f	8.00p	22.00			
Pots-Tier1: 87	32.80	8.50f	0.00	18.75			
Pots-Tier2: 39	14.91	8.50f	0.00	23.67			
Pots-Tier3: 39	14.91	8.50f	0.00	26.50			
Pots-Tier4: 30	11.18	8.50f	10.94s	29.33			
Icing	16.08	3.89f	0.00	21.37			
Total Fixed	649.63	1.07a	0.08s	15.90			
Part	Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99	
HOLD3.C	1.000	1.025	110.41	7.15a	0.00	8.79	
FWDWING.S	0.980	0.870	9.01	28.93f	12.94s	6.91	-10.09
FWDWING.P	0.980	0.870	9.01	28.93f	12.94p	6.91	-10.09
MIDWING.S	0.980	0.870	19.55	11.42f	13.61s	6.02	-9.93
MIDWING.P	0.980	0.870	19.55	11.42f	13.61p	6.02	-9.93
AFTWING.S	0.980	0.870	19.87	7.03a	13.79s	5.78	-9.79
AFTWING.P	0.980	0.870	19.87	7.03a	13.79p	5.78	-9.79
AFTFUEL.S	0.980	0.870	23.71	45.59a	10.77s	10.05	-13.99
AFTFUEL.P	0.980	0.870	19.24	45.99a	11.59p	10.17	-13.99
DAYTANK.P	0.980	0.870	11.70	56.15a	10.17p	11.23	-14.00
WATER.S	1.000	1.000	24.87	29.23a	13.97s	8.63	-14.32
WATER.P	1.000	1.000	24.87	29.23a	13.97p	8.63	-14.32
LUBEOIL.P	0.981	0.924	4.76	43.87a	7.24p	9.57	-13.98
SEWAGE.S	0.500	1.025	7.03	55.88a	10.01s	9.66	-11.00
Total Tanks			449.09	7.26a	0.11p	8.46	
Total Weight			1,098.72	3.60a	0.00	12.86	
			Displ(LT)	LCB	TCB	VCB	
HULL		1.025	1,098.72	3.63a	0.00	7.97	-13.52
Righting Arms:							
Part	LPA	LCP	HCP	LPA	LCP	HCP	
Displacers	1440.5	1.20f	-6.09	727.7	2.23f	4.95	
Sails				1308.3	6.78f	10.96	
Total Lateral Plane->	1440.5	1.20f	-6.09	2036.0	5.16f	8.81	
Distances in FEET.							
Least freeboard is 0.72 Ft located at 18.15a							

ER Vent (Downflood) Height: 9.36ft PATRICIA LEE Load Line Height: -0.56ft

Note: Heel Corrected by Shifting Top Tier Pots 10.94 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	3.20 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	0.65 F
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	40.65 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	14.03 F
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	12.14 P
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	1.89 F
(7)	Angle from abs 0 deg to RAzero	> 50.00 deg	64.16 P

LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	3.20 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	40.65 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	14.03 F
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	1.89 F
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	20.00 P

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	1.87 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	1.558 P
(3)	Res. Area Ratio from Roll to Flood or RAzero	> 1.000	1.558 P

Roll angle = 18.32 degrees.

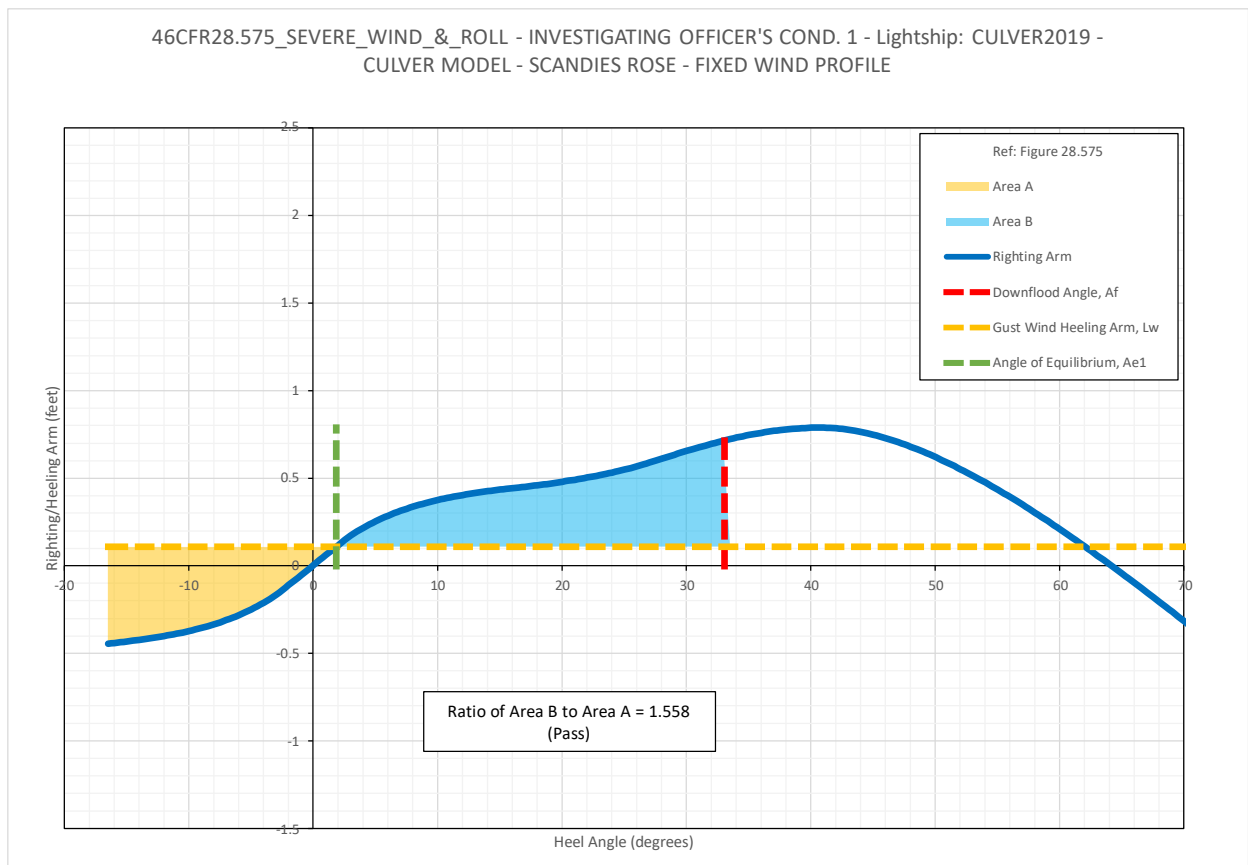
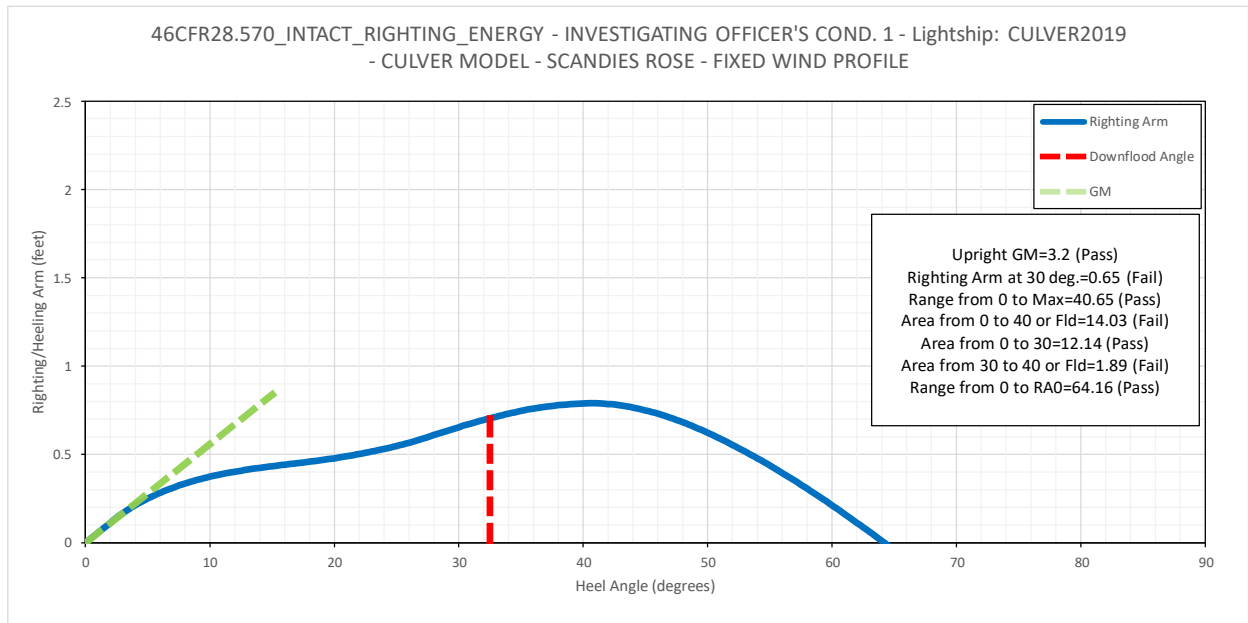
IMO parameters:

K = 0.700
L = 123.35
VCG = 12.86
T = 8.7

X1 = 0.978
B = 34.00
Draft = 13.55
C = 0.458

X2 = 0.992
D = 13.52
WG = -0.68
GM = 3.20

Cb = 0.679
BDR = 2.516
R = 0.700
S = 0.088



11/01/20 16:09:57
GHS 17.34B

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INVESTIGATING OFFICER'S COND. 2

Page A36
SR-INV

195 Pots, Holds 2 and 3 Full. Fuel and Water Full except #1 WTs, 20kip bait
Light Ship Source: Culver2019

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS

Baseline draft: 12.623 @ 60.63f, 13.356 @ 0.00, 14.089 @ 60.63a
Trim: Aft 1.47/121.25, Heel: zero

Part	Weight(LT)	LCG	TCG	VCG		
LIGHT SHIP Culver2019	548.32	3.30a	0.00	14.69		
Crew and Stores	2.50	8.60a	0.00	16.80		
Bait	8.93	50.00f	8.00p	22.00		
Pots-Tier1: 82	32.80	8.50f	0.00	18.75		
Pots-Tier2: 38	14.91	8.50f	0.00	23.67		
Pots-Tier3: 38	14.91	8.50f	0.00	26.50		
Pots-Tier4: 38	14.91	8.50f	8.17s	29.33		
Icing	16.08	3.89f	0.00	21.37		
Total Fixed	653.36	1.01a	0.08s	15.97		
Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99
HOLD3.C	1.000	1.025	110.41	7.15a	0.00	8.79
MIDWING.S	0.980	0.870	19.55	11.40f	13.61s	6.02
MIDWING.P	0.980	0.870	19.55	11.40f	13.61p	6.02
AFTWING.S	0.980	0.870	19.87	7.05a	13.79s	5.78
AFTWING.P	0.980	0.870	19.87	7.05a	13.79p	5.78
AFTFUEL.S	0.980	0.870	23.71	45.60a	10.77s	10.05
AFTFUEL.P	0.980	0.870	19.24	46.00a	11.59p	10.17
DAYTANK.P	0.980	0.870	11.70	56.16a	10.16p	11.23
WATER.S	1.000	1.000	24.87	29.23a	13.97s	8.63
WATER.P	1.000	1.000	24.87	29.23a	13.97p	8.63
LUBEOIL.P	0.981	0.924	4.76	43.87a	7.24p	9.57
SEWAGE.S	0.500	1.025	7.03	55.89a	10.01s	9.66
Total Tanks			431.07	8.77a	0.12p	8.52
Total Weight			1,084.43	4.10a	0.00	13.01
Part	Righting Arms:	Displ(LT)	LCB	TCB	VCB	
HULL	1.025	1,084.43	4.16a	0.00	7.90	-13.36
			0.00	0.00		
Part	LPA	LCP	HCP	LPA	LCP	HCP
Displacers	1420.3	0.59f	-6.01	747.9	3.20f	5.00
Sails				1308.3	6.65f	11.16
Total Lateral Plane->	1420.3	0.59f	-6.01	2056.2	5.40f	8.91

Distances in FEET.
Least freeboard is 0.78 Ft located at 18.15a

ER Vent (Downflood) Height: 9.34ft PATRICIA LEE Load Line Height: -0.40ft

Note: Heel Corrected by Shifting Top Tier Pots 8.17 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	3.06 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	0.64 F
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	40.00 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	14.09 F
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	12.18 P
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	1.91 F
(7)	Angle from abs 0 deg to RAzero	> 50.00 deg	62.11 P

LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	3.06 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	40.00 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	14.09 F
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	1.91 F
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	19.20 P

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	2.00 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	1.556 P
(3)	Res. Area Ratio from Roll to Flood or RAzero	> 1.000	1.556 P

Roll angle = 18.25 degrees.

IMO parameters:

K = 0.700	X1 = 0.973	X2 = 0.992	Cb = 0.679
L = 123.14	B = 34.00	D = 13.36	BDR = 2.546
VCG = 13.01	Draft = 13.41	WG = -0.39	R = 0.712
T = 8.9	C = 0.459	GM = 3.06	S = 0.086

11/01/20 16:09:57
GHS 17.34B

USCG - SERT - Emergency Use Only
CULVER MODEL - SCANDIES ROSE - FIXED WIND PROFILE
INVESTIGATING OFFICER'S COND. 1

Page A37
SR-INV

195 Pots, Holds 2 and 3 Full. Fuel and Water Full, 20kip bait
Light Ship Source: MSC2019

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS

Baseline draft: 14.445 @ 60.63f, 13.899 @ 0.00, 13.354 @ 60.63a

Trim: Fwd 1.09/121.25, Heel: Port 0.01 deg.

Part	Weight(LT)	LCG	TCG	VCG	RefHt		
LIGHT SHIP MSC2019	578.33	0.52a	0.00	15.26			
Crew and Stores	2.50	8.60a	0.00	16.80			
Bait	8.93	50.00f	8.00p	22.00			
Pots-Tier1: 82	32.80	8.50f	0.00	18.75			
Pots-Tier2: 38	14.91	8.50f	0.00	23.67			
Pots-Tier3: 38	14.91	8.50f	0.00	26.50			
Pots-Tier4: 38	14.91	8.50f	8.16s	29.33			
Icing	16.08	3.89f	0.00	21.37			
Total Fixed	683.37	1.24f	0.07s	16.40			
Part	Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99	
HOLD3.C	1.000	1.025	110.41	7.15a	0.00	8.79	
FWDWING.S	0.980	0.870	9.01	28.99f	12.93s	6.91	-9.63
FWDWING.P	0.980	0.870	9.01	28.99f	12.93p	6.91	-9.63
MIDWING.S	0.980	0.870	19.55	11.49f	13.61s	6.02	-9.75
MIDWING.P	0.980	0.870	19.55	11.49f	13.61p	6.02	-9.74
AFTWING.S	0.980	0.870	19.87	6.97a	13.79s	5.78	-9.90
AFTWING.P	0.980	0.870	19.87	6.97a	13.79p	5.78	-9.90
AFTFUEL.S	0.980	0.870	23.71	45.57a	10.77s	10.05	-14.72
AFTFUEL.P	0.980	0.870	19.24	45.97a	11.59p	10.17	-14.72
DAYTANK.P	0.980	0.870	11.70	56.14a	10.17p	11.23	-14.89
WATER.S	1.000	1.000	24.87	29.23a	13.97s	8.63	-14.79
WATER.P	1.000	1.000	24.87	29.23a	13.97p	8.63	-14.79
LUBEOIL.P	0.981	0.924	4.76	43.86a	7.24p	9.57	-14.67
SEWAGE.S	0.500	1.025	7.03	55.84a	10.01s	9.66	-11.89
Total Tanks			449.09	7.24a	0.11p	8.46	
Total Weight			1,132.46	2.12a	0.00	13.25	
HULL	Displ(LT)	LCB	TCB	VCB	Righting Arms:		
	1,132.43	2.08a	0.00	8.14	-13.90		
		0.00	0.00				
Part	LPA	LCP	HCP	LPA	LCP	HCP	
Displacers	1489.3	2.97f	-6.30	679.5	1.02a	4.89	
Sails				1308.4	7.17f	10.47	
Total Lateral Plane->	1489.3	2.97f	-6.30	1987.9	4.37f	8.56	

Distances in FEET.

Least freeboard is 0.43 Ft located at 0.00

ER Vent (Downflood) Height: 9.46ft

PATRICIA LEE Load Line Height: -0.95ft

Note: Heel Corrected by Shifting Top Tier Pots 8.16 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	2.82 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	0.33 F
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	37.50 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	6.90 F
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	5.93 F
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	0.96 F
(7)	Angle from abs 0 deg to RAzero	> 50.00 deg	55.28 P

LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	2.82 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	37.50 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	6.90 F
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	0.96 F
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	8.80 F

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	2.02 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	0.835 F
(3)	Res. Area Ratio from Roll to Flood or RAzero	> 1.000	0.835 F

Roll angle = 18.23 degrees.

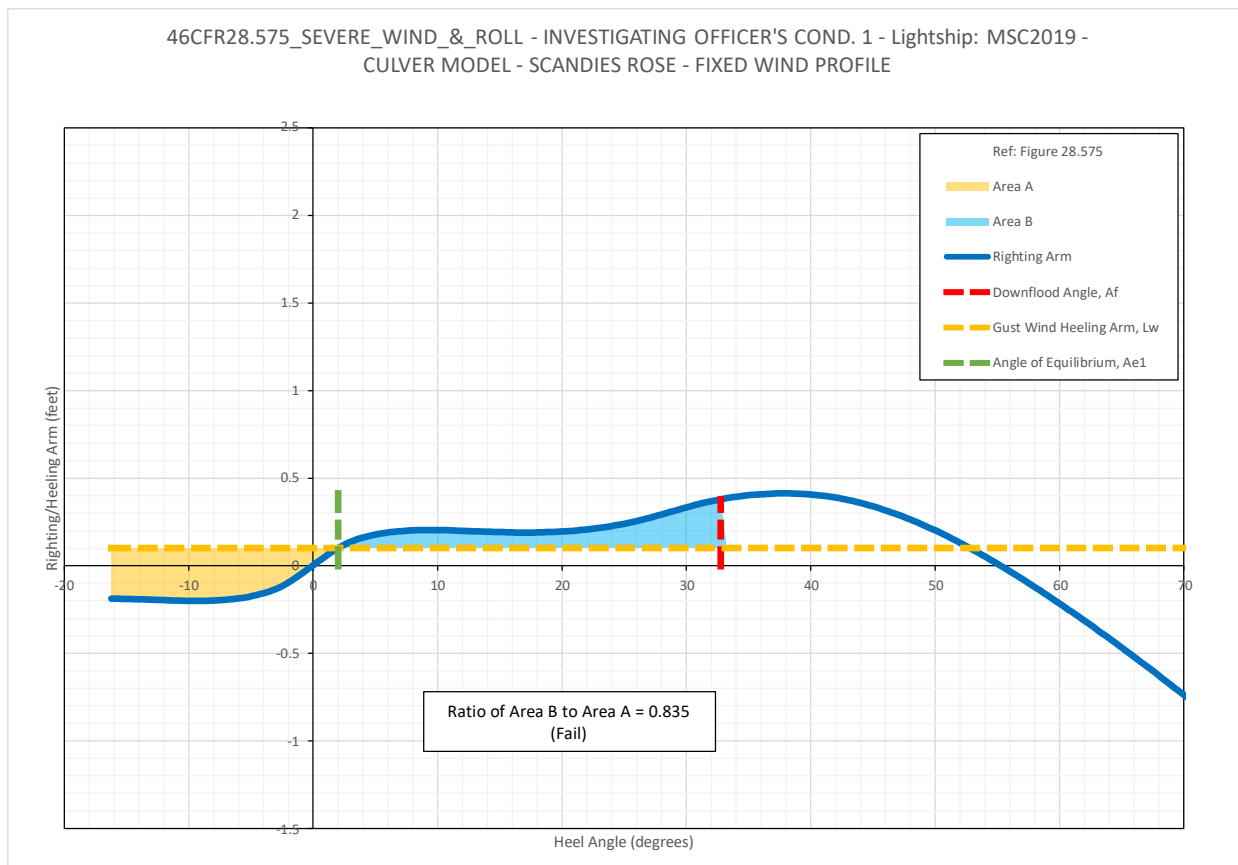
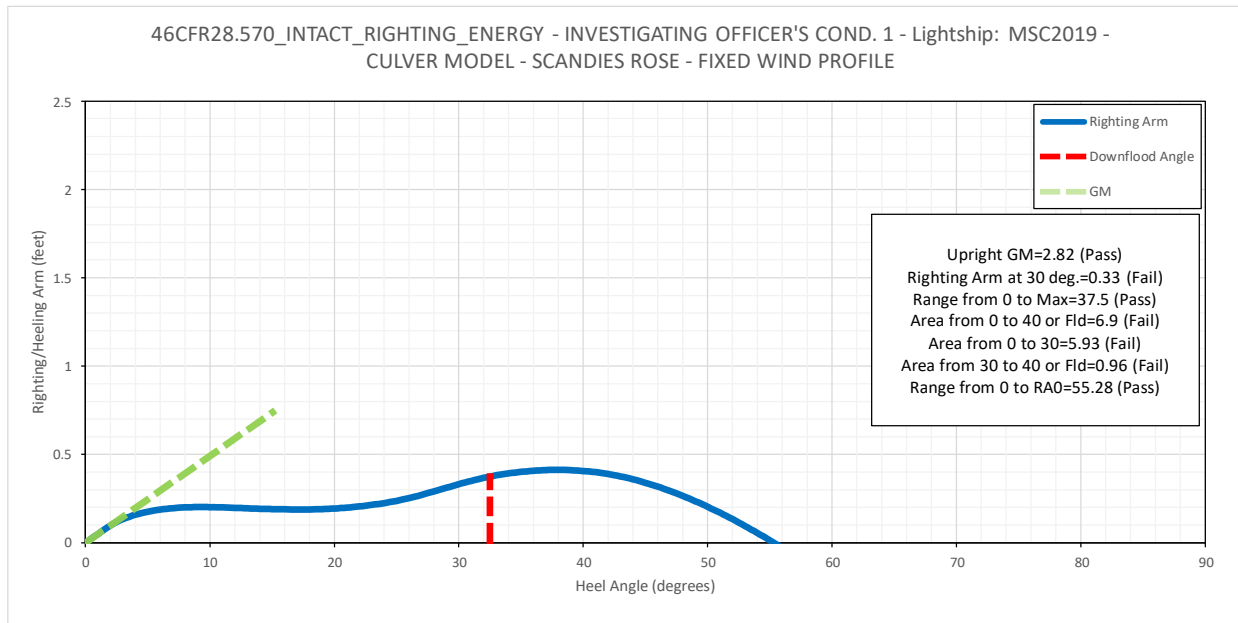
IMO parameters:

K = 0.700
L = 123.96
VCG = 13.25
T = 9.2

X1 = 0.990
B = 34.00
Draft = 13.86
C = 0.456

X2 = 0.991
D = 13.90
WG = -0.63
GM = 2.82

Cb = 0.677
BDR = 2.446
R = 0.703
S = 0.084



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GHS 17.34B

USCG - SERT - Emergency Use Only
CULVER MODEL - SCANDIES ROSE - FIXED WIND PROFILE
INVESTIGATING OFFICER'S COND. 2

Page A38
SR-INV

195 Pots, Holds 2 and 3 Full. Fuel and Water Full except #1 WTs, 20kip bait
Light Ship Source: MSC2019

WEIGHT and DISPLACEMENT and LATERAL PLANE and FREEBOARD STATUS							
Baseline draft: 13.916 @ 60.63f, 13.708 @ 0.00, 13.499 @ 60.63a							
Trim: Fwd 0.42/121.25,				Heel: zero			
Part	Weight(LT)	LCG	TCG	VCG			
LIGHT SHIP MSC2019	578.33	0.52a	0.00	15.26			
Crew and Stores	2.50	8.60a	0.00	16.80			
Bait	8.93	50.00f	8.00p	22.00			
Pots-Tier1: 82	32.80	8.50f	0.00	18.75			
Pots-Tier2: 38	14.91	8.50f	0.00	23.67			
Pots-Tier3: 38	14.91	8.50f	0.00	26.50			
Pots-Tier4: 38	14.91	8.50f	8.18s	29.33			
Icing	16.08	3.89f	0.00	21.37			
Total Fixed	683.37	1.24f	0.07s	16.40			
Part	Load	SpGr	Weight(LT)	LCG	TCG	VCG	RefHt
HOLD2.C	1.000	1.025	125.63	12.11f	0.00	8.99	
HOLD3.C	1.000	1.025	110.41	7.15a	0.00	8.79	
MIDWING.S	0.980	0.870	19.55	11.47f	13.61s	6.02	-9.81
MIDWING.P	0.980	0.870	19.55	11.47f	13.61p	6.02	-9.81
AFTWING.S	0.980	0.870	19.87	6.99a	13.79s	5.78	-9.86
AFTWING.P	0.980	0.870	19.87	6.99a	13.79p	5.78	-9.86
AFTFUEL.S	0.980	0.870	23.71	45.58a	10.77s	10.05	-14.46
AFTFUEL.P	0.980	0.870	19.24	45.98a	11.59p	10.17	-14.47
DAYTANK.P	0.980	0.870	11.70	56.14a	10.17p	11.24	-14.58
WATER.S	1.000	1.000	24.87	29.23a	13.97s	8.63	-14.63
WATER.P	1.000	1.000	24.87	29.23a	13.97p	8.63	-14.63
LUBEOIL.P	0.981	0.924	4.76	43.86a	7.24p	9.57	-14.43
SEWAGE.S	0.500	1.025	7.03	55.85a	10.01s	9.66	-11.58
Total Tanks			431.07	8.76a	0.12p	8.52	
Total Weight			1,114.44	2.63a	0.00	13.35	
			Displ(LT)	LCB	TCB	VCB	
HULL		1.025	1,114.44	2.61a	0.00	8.05	-13.71
			Righting Arms:		LCB	TCB	VCB
				0.00	0.00		
Part	LPA	LCP	HCP	LPA	LCP	HCP	
Displacers	1465.2	2.37f	-6.20	703.0	0.19f	4.91	
Sails				1308.3	7.03f	10.70	
Total Lateral Plane->	1465.2	2.37f	-6.20	2011.4	4.64f	8.67	
Distances in FEET.							
Least freeboard is 0.62 Ft located at 0.00							

ER Vent (Downflood) Height: 9.49ft PATRICIA LEE Load Line Height: -0.75ft

Note: Heel Corrected by Shifting Top Tier Pots 8.18 feet

LIM	46CFR28.570_INTACT_RIGHTING_ENERGY	Min/Max	Attained
(1)	GM Upright	> 1.15 Ft	2.72 P
(2)	Righting Arm at abs 30 deg	> 0.66 Ft	0.34 F
(3)	Angle from abs 0 deg to MaxRA	> 25.00 deg	37.50 P
(4)	Abs Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	7.77 F
(5)	Absolute Area from abs 0 deg to abs 30	> 10.30 Ft-deg	6.70 F
(6)	Abs Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	1.07 F
(7)	Angle from abs 0 deg to RAzero	> 50.00 deg	54.67 P

LIM	46CFR170.173(C)_ALT_TO_28.570	Min/Max	Attained
(1)	GM Upright	> 0.49 Ft	2.72 P
(2)	Absolute Angle at MaxRA	> 15.00 deg	37.50 P
(3)	Area from abs 0 deg to abs 40 or Flood	> 16.90 Ft-deg	7.77 F
(4)	Area from abs 30 deg to abs 40 or Flood	> 5.60 Ft-deg	1.07 F
(5)	Area from abs 0 deg to MaxRA at abs 15	> 13.00 Ft-deg	9.59 F

LIM	46CFR28.575_SEVERE_WIND_&_ROLL	Min/Max	Attained
(1)	Absolute Angle at Equilibrium	< 14.00 deg	2.14 P
(2)	Res. Ratio from Roll to abs 50 deg or Flood	> 1.000	0.912 F
(3)	Res. Area Ratio from Roll to Flood or RAzero	> 1.000	0.912 F

Roll angle = 18.14 degrees.

IMO parameters:

K = 0.700	X1 = 0.984	X2 = 0.991	Cb = 0.677
L = 123.70	B = 34.00	D = 13.71	BDR = 2.480
VCG = 13.35	Draft = 13.69	WG = -0.35	R = 0.715
T = 9.4	C = 0.457	GM = 2.72	S = 0.083