


```

*****
*                                     *** MOSES ***                               *
*                                     -----                               *
*                                     March 26, 2001                               *
* L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H           *
* VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= -90                               *
*
*****

```

+++ R I G H T I N G A R M R E S U L T S +++
=====

Process is DEFAULT: Units Are Degrees, Feet, and S-Tons Unless Specified

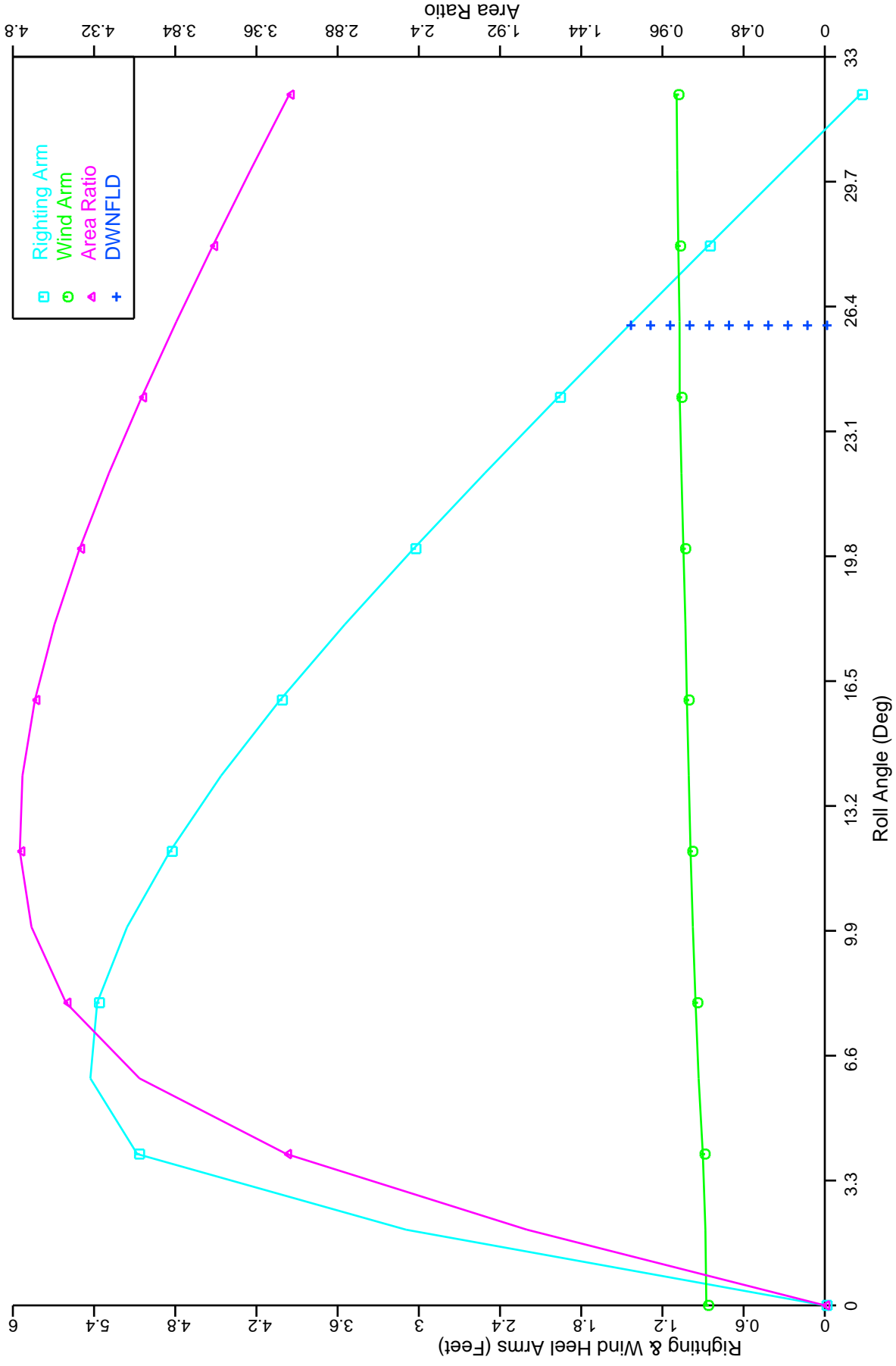
Moment Scaled By 575.68, KG = 19.78, and Wind Speed = 70. Knots

Initial: Roll = 0.00, Trim = 0.00 Deg.

Arms About Axis Yawed -90.0 Deg From Vessel X

/----- Condition -----/		/-- Min. Height --/		/--- Righting ---/		/--- Heeling ---/		Area	Net	
Draft	Roll	Trim	W Tight	NW Tight	Arm	Area	Arm	Area	Ratio	Arm
6.25	0.00	0.00	7.75	0.00	0.00	0.00	0.88	0.00	0.000	-0.88
7.73	2.00	0.00	7.52	0.00	3.09	3.09	0.88	1.76	1.760	2.21
9.27	4.00	0.00	7.20	0.00	5.08	11.27	0.90	3.54	3.182	4.18
10.90	6.00	0.00	6.78	0.00	5.43	21.78	0.93	5.38	4.051	4.49
12.61	8.00	0.00	6.25	0.00	5.38	32.58	0.96	7.26	4.486	4.42
14.37	10.00	0.00	5.66	0.00	5.16	43.11	0.98	9.19	4.690	4.18
16.15	12.00	0.00	5.01	0.00	4.84	53.11	0.99	11.16	4.759	3.85
17.95	14.00	0.00	4.32	0.00	4.46	62.41	1.01	13.16	4.743	3.46
19.74	16.00	0.00	3.62	0.00	4.03	70.90	1.02	15.18	4.670	3.01
21.51	18.00	0.00	2.90	0.00	3.55	78.47	1.03	17.23	4.554	2.52
23.26	20.00	0.00	2.18	0.00	3.04	85.05	1.04	19.31	4.405	1.99
24.99	22.00	0.00	1.45	0.00	2.51	90.60	1.06	21.41	4.232	1.45
26.69	24.00	0.00	0.71	0.00	1.97	95.08	1.07	23.54	4.039	0.90
28.35	26.00	0.00	-0.03	0.00	1.42	98.47	1.07	25.69	3.833	0.35
29.99	28.00	0.00	-0.76	0.00	0.86	100.75	1.08	27.84	3.619	-0.22
31.58	30.00	0.00	-1.50	0.00	0.30	101.92	1.09	30.02	3.395	-0.79
33.14	32.00	0.00	-2.24	0.00	-0.26	101.96	1.09	32.20	3.166	-1.36

L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H
 VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= -90



```

*****
*                               *** MOSES ***                               *
*                               -----                               *
*                               March 26, 2001                               *
*                               *                               *
* L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H *
* VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= -90 *
*                               *                               *
*****

```

+++ S T A B I L I T Y S U M M A R Y +++
=====

The Following Intact Condition
=====

```

Draft      = 6.25 Ft
Roll       = 0.00 Deg
Pitch      = 0.00 Deg
VCG        = 19.78 Ft
Axis Angle = -90.00 Deg
Wind Vel   = 70.00 Knots

```

Passes All of The Stability Requirements:
=====

```

Area Ratio          >= 1.40
RA/HA Ratio         >= 0.00
Dfld Height @ Equilibrium >= 0.10 Ft
GM                  >= 1.00 Ft
Arm Area @ Max Right Arm >= 0.00 Ft*Deg
Arm Area @ Dfld     >= 5.00 Ft*Deg
Arm Area @ 40 Degrees >= 0.00 Ft*Deg
Area Under Righting Arm >= 5.00 Ft*Deg
Static Heel w/o Wind <= 90.00 Deg
Static Heel Due to Wind <= 90.00 Deg
Range (Second Intercept) >= 0.00 Deg
2nd - 1st Intercepts >= 10.00 Deg
Dfld Angle - 1st Interc. >= 10.00 Deg
Angle @ Max Righting Arm >= 0.00 Deg
Downflood Angle    >= 0.00 Deg

```

With The Stability Results:
=====

```

Area Ratio          = 3.84      Passes
RA/HA Ratio         = 5.82      Passes
Dfld Height @ Equilibrium = 7.68 Ft  Passes
GM                  = 30.49 Ft  Passes
Arm Area @ Max Right Arm = 21.72 Ft*Deg Passes
Arm Area @ Dfld     = 98.29 Ft*Deg Passes
Arm Area @ 40 Degrees = 101.96 Ft*Deg Passes
Area Under Righting Arm = 98.26 Ft*Deg Passes
Static Heel w/o Wind = 0.01 Deg  Passes
Static Heel Due to Wind = 0.57 Deg  Passes
Range               = 31.04 Deg  Passes
2nd - 1st Intercepts = 26.66 Deg  Passes
Dfld Angle - 1st Interc. = 25.34 Deg  Passes
Angle @ Max Right Arm = 6.00 Deg   Passes
Downflood Angle    = 25.90 Deg  Passes

```

```

*****
*                               *** MOSES ***                               *
*                               -----                               *
*                               March 26, 2001                               *
*                               L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H *
*                               VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= -75 *
*                               *****                               *

```

+++ R I G H T I N G A R M R E S U L T S +++
=====

Process is DEFAULT: Units Are Degrees, Feet, and S-Tons Unless Specified

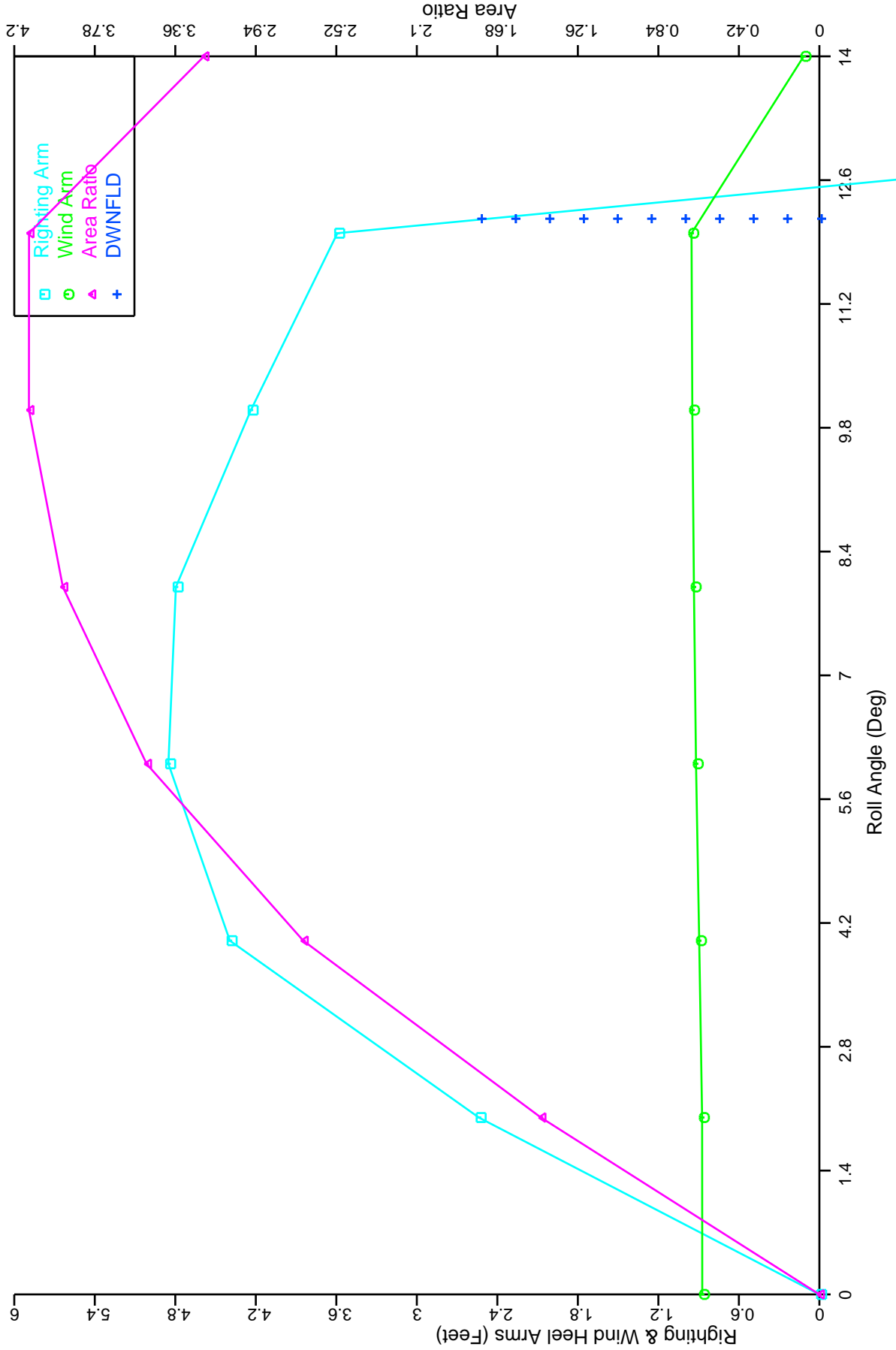
Moment Scaled By 575.68, KG = 19.78, and Wind Speed = 70. Knots

Initial: Roll = 0.00, Trim = 0.00 Deg.

Arms About Axis Yawed -75.0 Deg From Vessel X

/----- Condition -----/			/-- Min. Height --/		/--- Righting ---/		/--- Heeling ---/		Area	Net
Draft	Roll	Trim	W Tight	NW Tight	Arm	Area	Arm	Area	Ratio	Arm
6.25	0.00	0.00	7.75	0.00	0.00	0.00	0.87	0.00	0.000	-0.87
7.37	2.00	1.55	7.03	0.00	2.54	2.54	0.87	1.75	1.453	1.66
8.60	4.00	2.75	6.32	0.00	4.39	9.47	0.90	3.52	2.693	3.50
9.91	6.00	4.17	5.41	0.00	4.85	18.71	0.92	5.33	3.510	3.93
11.28	8.00	5.64	4.38	0.00	4.80	28.36	0.93	7.19	3.947	3.86
12.41	10.00	8.62	2.85	0.00	4.24	37.39	0.95	9.07	4.124	3.29
13.50	12.00	11.60	1.29	0.00	3.59	45.22	0.95	10.97	4.123	2.64
-13.63	14.00	160.57	-14.25	0.00	-10.17	38.65	0.12	12.04	3.210	-10.28

L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H
 VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= -75



```

*****
*                               *** MOSES ***                               *
*                               -----                               *
*                               March 26, 2001                               *
* L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H          *
* VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= -75                          *
*                                                                           *
*****

```

+++ S T A B I L I T Y S U M M A R Y +++
=====

The Following Intact Condition
=====

```

Draft      = 6.25 Ft
Roll       = 0.00 Deg
Pitch      = 0.00 Deg
VCG        = 19.78 Ft
Axis Angle = -75.00 Deg
Wind Vel   = 70.00 Knots

```

Passes All of The Stability Requirements:
=====

```

Area Ratio          >= 1.40
RA/HA Ratio         >= 0.00
Dfld Height @ Equilibrium >= 0.10 Ft
GM                  >= 1.00 Ft
Arm Area @ Max Right Arm >= 0.00 Ft*Deg
Arm Area @ Dfld     >= 5.00 Ft*Deg
Arm Area @ 40 Degrees >= 0.00 Ft*Deg
Area Under Righting Arm >= 5.00 Ft*Deg
Static Heel w/o Wind <= 90.00 Deg
Static Heel Due to Wind <= 90.00 Deg
Range (Second Intercept) >= 0.00 Deg
2nd - 1st Intercepts >= 10.00 Deg
Dfld Angle - 1st Interc. >= 10.00 Deg
Angle @ Max Righting Arm >= 0.00 Deg
Downflood Angle    >= 0.00 Deg

```

With The Stability Results:
=====

```

Area Ratio          = 4.05      Passes
RA/HA Ratio         = 5.28      Passes
Dfld Height @ Equilibrium = 7.50 Ft  Passes
GM                  = 30.49 Ft  Passes
Arm Area @ Max Right Arm = 18.67 Ft*Deg Passes
Arm Area @ Dfld     = 44.71 Ft*Deg Passes
Arm Area @ 40 Degrees = 38.68 Ft*Deg Passes
Area Under Righting Arm = 44.69 Ft*Deg Passes
Static Heel w/o Wind = 0.01 Deg  Passes
Static Heel Due to Wind = 0.69 Deg  Passes
Range               = 12.52 Deg  Passes
2nd - 1st Intercepts = 11.72 Deg  Passes
Dfld Angle - 1st Interc. = 11.48 Deg  Passes
Angle @ Max Right Arm = 6.00 Deg   Passes
Downflood Angle    = 12.16 Deg  Passes

```

```

*****
*                                     *** MOSES ***                               *
*                                     -----                               *
*                                     March 26, 2001                               *
* L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H           *
* VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= -60                               *
*
*****

```

+++ R I G H T I N G A R M R E S U L T S +++
=====

Process is DEFAULT: Units Are Degrees, Feet, and S-Tons Unless Specified

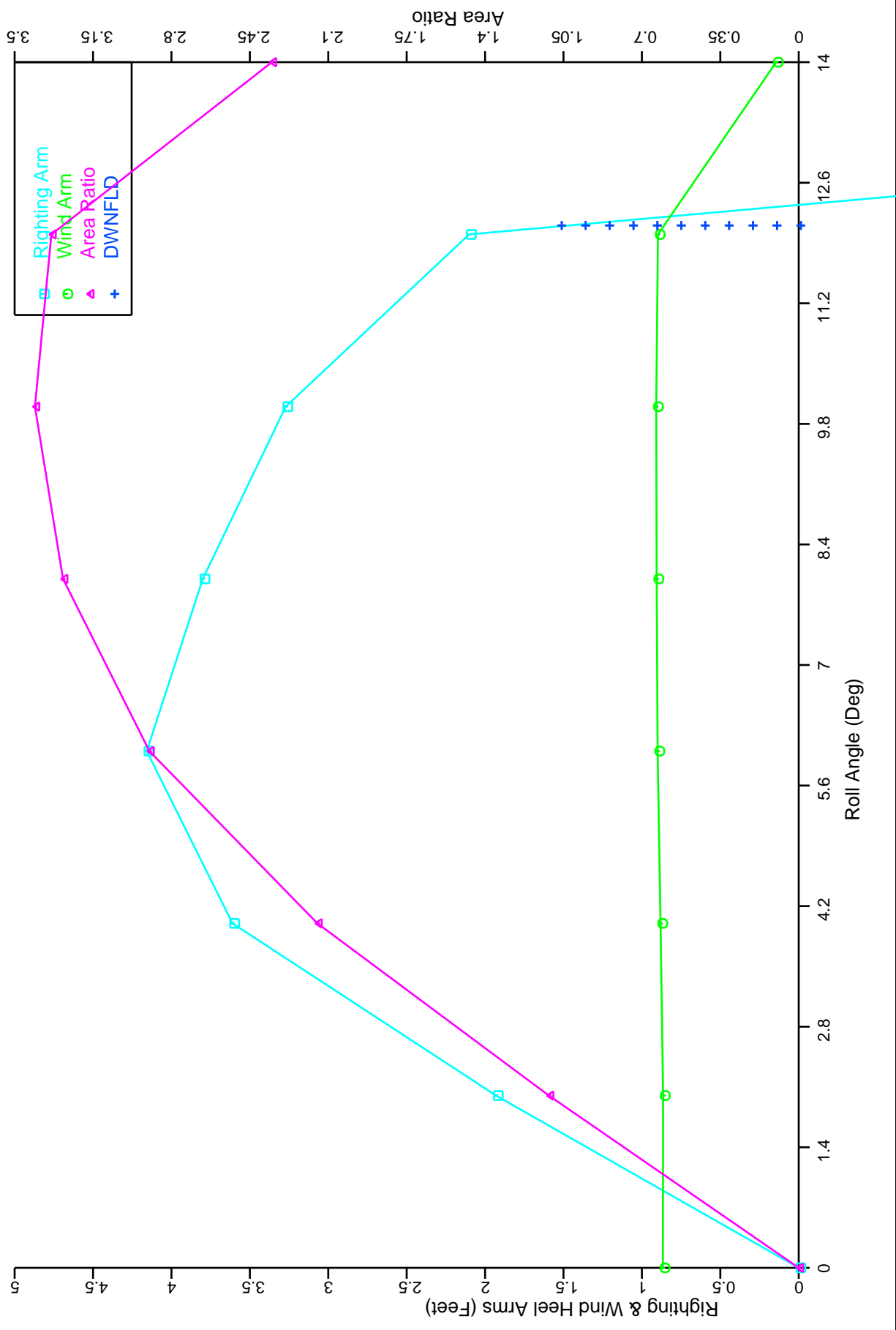
Moment Scaled By 575.68, KG = 19.78, and Wind Speed = 70. Knots

Initial: Roll = 0.00, Trim = 0.00 Deg.

Arms About Axis Yawed -60.0 Deg From Vessel X

/----- Condition -----/			/-- Min. Height --/		/--- Righting ---/		/--- Heeling ---/		Area	Net
Draft	Roll	Trim	W Tight	NW Tight	Arm	Area	Arm	Area	Ratio	Arm
6.25	0.00	0.00	7.75	0.00	0.00	0.00	0.87	0.00	0.000	-0.87
7.00	2.00	1.39	7.04	0.00	1.93	1.93	0.86	1.73	1.115	1.07
7.87	4.00	2.53	6.32	0.00	3.61	7.47	0.88	3.48	2.149	2.73
8.79	6.00	3.81	5.45	0.00	4.16	15.24	0.90	5.26	2.898	3.26
9.33	8.00	6.47	4.14	0.00	3.80	23.20	0.91	7.06	3.284	2.89
9.80	10.00	9.45	2.65	0.00	3.27	30.27	0.91	8.88	3.409	2.36
9.72	12.00	14.04	0.67	0.00	2.10	35.64	0.90	10.68	3.336	1.20
-15.57	14.00	163.01	-12.00	0.00	-10.17	27.58	0.14	11.73	2.352	-10.31

L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H
 VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= -60



```

*****
*                               *** MOSES ***                               *
*                               -----                               *
*                               March 26, 2001                               *
* L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H        *
* VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= -60                        *
*                                                                           *
*****

```

+++ S T A B I L I T Y S U M M A R Y +++
=====

The Following Intact Condition
=====

```

Draft      = 6.25 Ft
Roll       = 0.00 Deg
Pitch      = 0.00 Deg
VCG        = 19.78 Ft
Axis Angle = -60.00 Deg
Wind Vel   = 70.00 Knots

```

Passes All of The Stability Requirements:
=====

```

Area Ratio           >= 1.40
RA/HA Ratio          >= 0.00
Dfld Height @ Equilibrium >= 0.10 Ft
GM                  >= 1.00 Ft
Arm Area @ Max Right Arm >= 0.00 Ft*Deg
Arm Area @ Dfld      >= 5.00 Ft*Deg
Arm Area @ 40 Degrees >= 0.00 Ft*Deg
Area Under Righting Arm >= 5.00 Ft*Deg
Static Heel w/o Wind  <= 90.00 Deg
Static Heel Due to Wind <= 90.00 Deg
Range (Second Intercept) >= 0.00 Deg
2nd - 1st Intercepts >= 10.00 Deg
Dfld Angle - 1st Interc. >= 10.00 Deg
Angle @ Max Righting Arm >= 0.00 Deg
Downflood Angle     >= 0.00 Deg

```

With The Stability Results:
=====

```

Area Ratio           = 3.29          Passes
RA/HA Ratio          = 4.62          Passes
Dfld Height @ Equilibrium = 7.43 Ft      Passes
GM                  = 30.49 Ft      Passes
Arm Area @ Max Right Arm = 15.20 Ft*Deg Passes
Arm Area @ Dfld      = 35.26 Ft*Deg Passes
Arm Area @ 40 Degrees = 27.62 Ft*Deg Passes
Area Under Righting Arm = 35.24 Ft*Deg Passes
Static Heel w/o Wind  = 0.01 Deg   Passes
Static Heel Due to Wind = 0.90 Deg   Passes
Range                = 12.34 Deg   Passes
2nd - 1st Intercepts = 11.31 Deg   Passes
Dfld Angle - 1st Interc. = 11.21 Deg   Passes
Angle @ Max Right Arm = 6.00 Deg    Passes
Downflood Angle     = 12.10 Deg   Passes

```

```

*****
*                               *** MOSES ***                               *
*                               -----                               *
*                               March 26, 2001                               *
*                               L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H *
*                               VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= -45 *
*                               *****                               *

```

+++ R I G H T I N G A R M R E S U L T S +++
=====

Process is DEFAULT: Units Are Degrees, Feet, and S-Tons Unless Specified

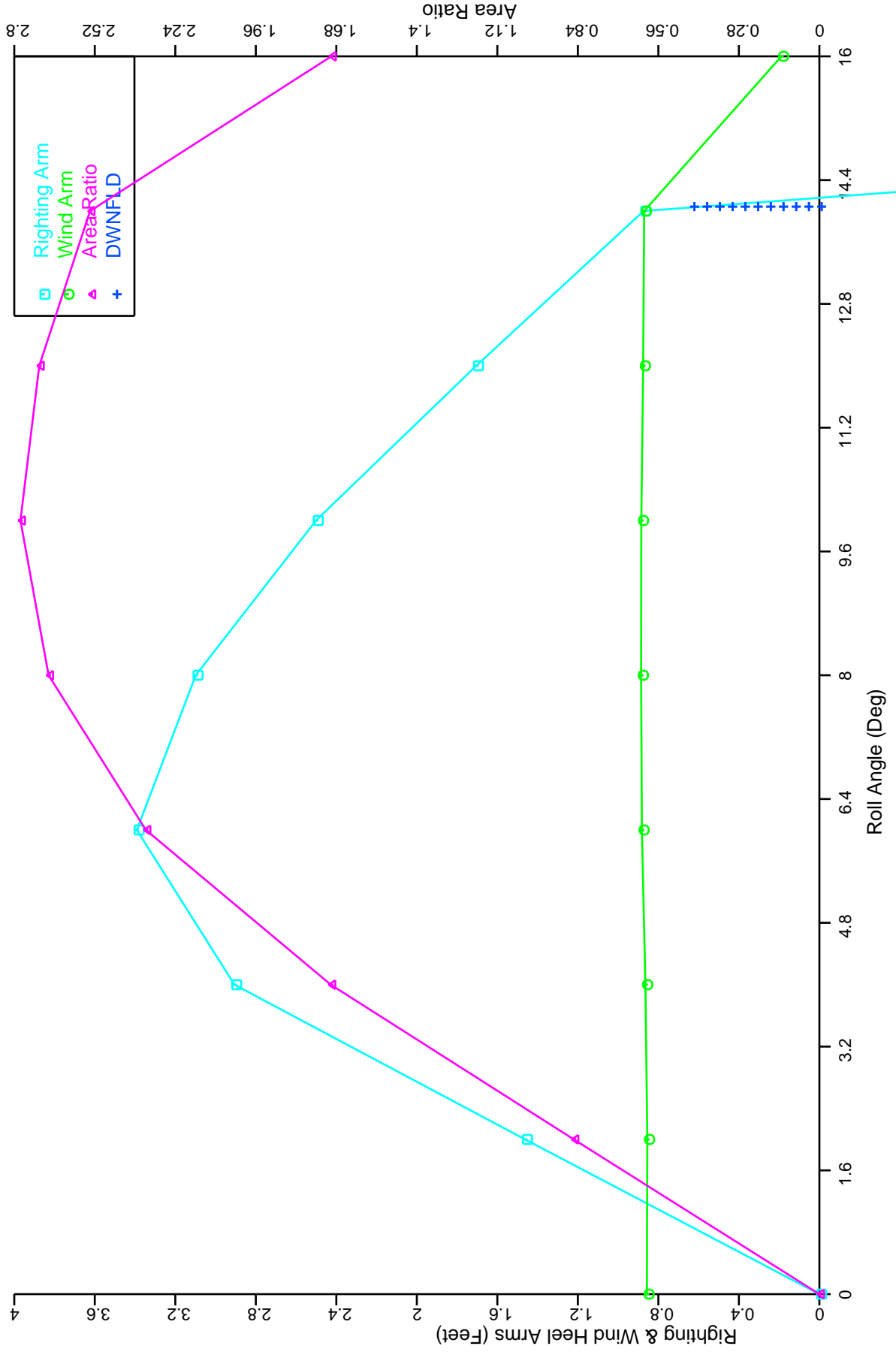
Moment Scaled By 575.68, KG = 19.78, and Wind Speed = 70. Knots

Initial: Roll = 0.00, Trim = 0.00 Deg.

Arms About Axis Yawed -45.0 Deg From Vessel X

/----- Condition -----/			/-- Min. Height --/		/--- Righting ---/		/--- Heeling ---/		Area	Net
Draft	Roll	Trim	W Tight	NW Tight	Arm	Area	Arm	Area	Ratio	Arm
6.25	0.00	0.00	7.75	0.00	0.00	0.00	0.86	0.00	0.000	-0.86
6.68	2.00	1.16	7.08	0.00	1.46	1.46	0.85	1.71	0.854	0.61
7.22	4.00	2.12	6.40	0.00	2.91	5.83	0.86	3.43	1.699	2.04
7.75	6.00	3.27	5.58	0.00	3.39	12.13	0.88	5.18	2.342	2.51
7.89	8.00	5.40	4.49	0.00	3.10	18.62	0.89	6.94	2.681	2.21
7.85	10.00	8.03	3.21	0.00	2.50	24.22	0.88	8.72	2.778	1.62
7.66	12.00	11.01	1.78	0.00	1.70	28.42	0.88	10.48	2.713	0.83
7.47	14.00	13.99	0.31	0.00	0.87	31.00	0.87	12.22	2.536	0.00
-17.29	16.00	162.58	-10.23	0.00	-9.33	22.54	0.19	13.28	1.697	-9.52

L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H
 VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= -45



```

*****
*                               *** MOSES ***                               *
*                               -----                               *
*                               March 26, 2001                               *
*                               L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H *
*                               VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= -45 *
*                               *****                               *

```

+++ S T A B I L I T Y S U M M A R Y +++
=====

The Following Intact Condition
=====

```

Draft      = 6.25 Ft
Roll       = 0.00 Deg
Pitch      = 0.00 Deg
VCG        = 19.78 Ft
Axis Angle = -45.00 Deg
Wind Vel   = 70.00 Knots

```

Passes All of The Stability Requirements:
=====

```

Area Ratio          >= 1.40
RA/HA Ratio         >= 0.00
Dfld Height @ Equilibrium >= 0.10 Ft
GM                  >= 1.00 Ft
Arm Area @ Max Right Arm >= 0.00 Ft*Deg
Arm Area @ Dfld     >= 5.00 Ft*Deg
Arm Area @ 40 Degrees >= 0.00 Ft*Deg
Area Under Righting Arm >= 5.00 Ft*Deg
Static Heel w/o Wind <= 90.00 Deg
Static Heel Due to Wind <= 90.00 Deg
Range (Second Intercept) >= 0.00 Deg
2nd - 1st Intercepts >= 10.00 Deg
Dfld Angle - 1st Interc. >= 10.00 Deg
Angle @ Max Righting Arm >= 0.00 Deg
Downflood Angle    >= 0.00 Deg

```

With The Stability Results:
=====

```

Area Ratio          = 2.54      Passes
RA/HA Ratio         = 3.85      Passes
Dfld Height @ Equilibrium = 7.36 Ft  Passes
GM                  = 30.49 Ft  Passes
Arm Area @ Max Right Arm = 12.10 Ft*Deg Passes
Arm Area @ Dfld     = 30.80 Ft*Deg Passes
Arm Area @ 40 Degrees = 22.58 Ft*Deg Passes
Area Under Righting Arm = 30.97 Ft*Deg Passes
Static Heel w/o Wind = 0.01 Deg  Passes
Static Heel Due to Wind = 1.17 Deg  Passes
Range               = 14.17 Deg  Passes
2nd - 1st Intercepts = 12.83 Deg  Passes
Dfld Angle - 1st Interc. = 12.89 Deg  Passes
Angle @ Max Right Arm = 6.00 Deg  Passes
Downflood Angle    = 14.06 Deg  Passes

```

```

*****
*                               *** MOSES ***                               *
*                               -----                               *
*                               March 26, 2001                               *
*                               L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H *
*                               VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= -30 *
*                               *****                               *

```

+++ R I G H T I N G A R M R E S U L T S +++
=====

Process is DEFAULT: Units Are Degrees, Feet, and S-Tons Unless Specified

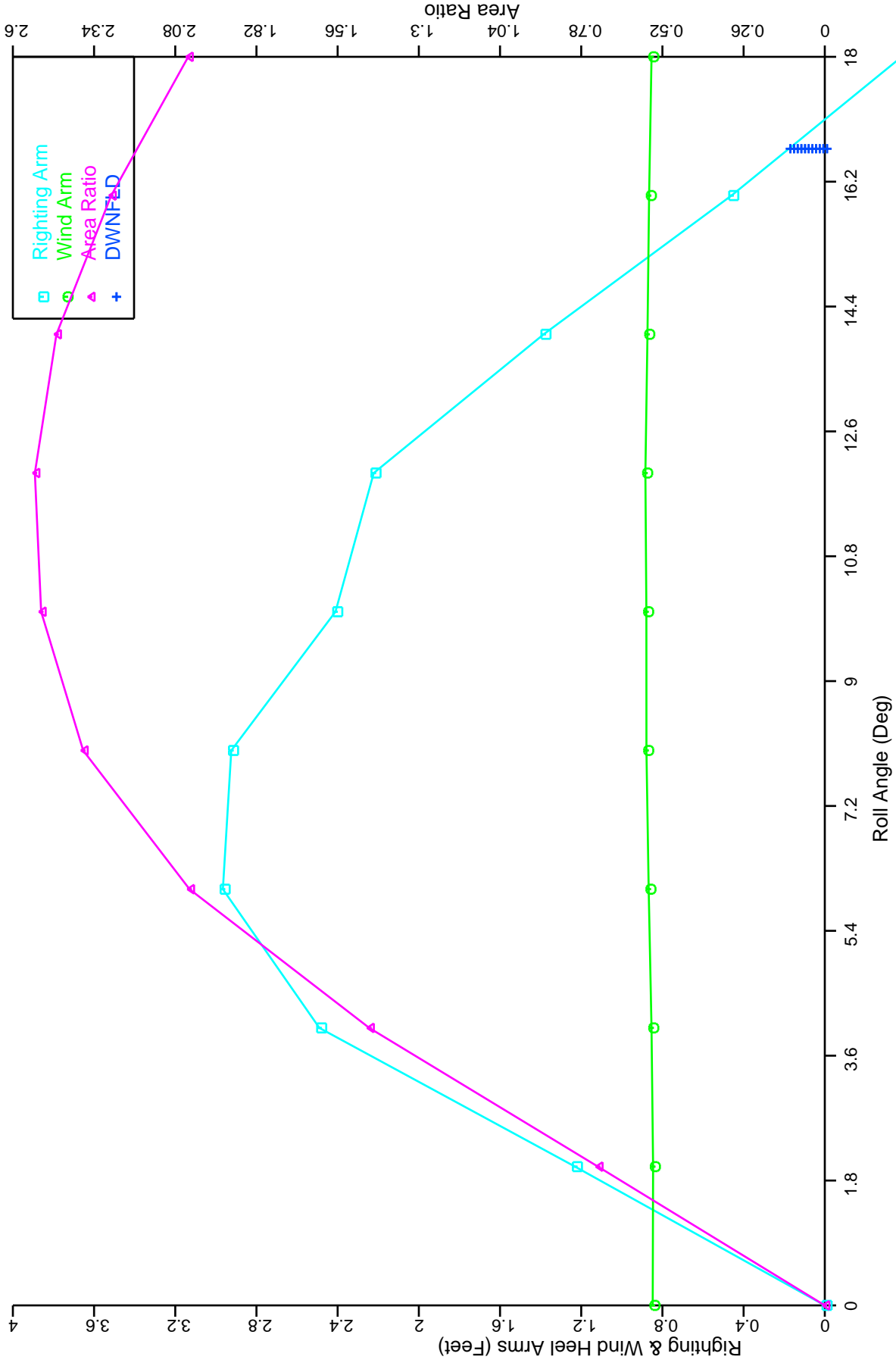
Moment Scaled By 575.68, KG = 19.78, and Wind Speed = 70. Knots

Initial: Roll = 0.00, Trim = 0.00 Deg.

Arms About Axis Yawed -30.0 Deg From Vessel X

/----- Condition -----/			/-- Min. Height --/		/--- Righting ---/		/--- Heeling ---/		Area	Net
Draft	Roll	Trim	W Tight	NW Tight	Arm	Area	Arm	Area	Ratio	Arm
6.25	0.00	0.00	7.75	0.00	0.00	0.00	0.85	0.00	0.000	-0.85
6.51	2.00	0.74	7.14	0.00	1.23	1.23	0.85	1.69	0.726	0.38
6.81	4.00	1.41	6.50	0.00	2.49	4.95	0.85	3.39	1.459	1.64
7.07	6.00	2.28	5.77	0.00	2.97	10.40	0.87	5.11	2.034	2.10
7.26	8.00	3.36	4.93	0.00	2.92	16.29	0.88	6.86	2.375	2.05
7.02	10.00	5.25	3.94	0.00	2.41	21.63	0.88	8.62	2.509	1.53
7.42	12.00	6.12	2.99	0.00	2.22	26.26	0.88	10.38	2.530	1.34
6.83	14.00	8.69	1.81	0.00	1.38	29.87	0.87	12.14	2.460	0.51
6.06	16.00	11.67	0.48	0.00	0.46	31.71	0.87	13.88	2.285	-0.41
5.33	18.00	14.65	-0.92	0.00	-0.38	31.79	0.85	15.60	2.038	-1.23

L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H
 VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= -30



```

*****
*                               *** MOSES ***                               *
*                               -----                               *
*                               March 26, 2001                               *
*                               *                               *
* L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H      *
* VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= -30                       *
*                               *                               *
*****

```

+++ S T A B I L I T Y S U M M A R Y +++
=====

The Following Intact Condition
=====

```

Draft      = 6.25 Ft
Roll       = 0.00 Deg
Pitch      = 0.00 Deg
VCG        = 19.78 Ft
Axis Angle = -30.00 Deg
Wind Vel   = 70.00 Knots

```

Passes All of The Stability Requirements:
=====

```

Area Ratio          >= 1.40
RA/HA Ratio         >= 0.00
Dfld Height @ Equilibrium >= 0.10 Ft
GM                  >= 1.00 Ft
Arm Area @ Max Right Arm >= 0.00 Ft*Deg
Arm Area @ Dfld     >= 5.00 Ft*Deg
Arm Area @ 40 Degrees >= 0.00 Ft*Deg
Area Under Righting Arm >= 5.00 Ft*Deg
Static Heel w/o Wind <= 90.00 Deg
Static Heel Due to Wind <= 90.00 Deg
Range (Second Intercept) >= 0.00 Deg
2nd - 1st Intercepts >= 10.00 Deg
Dfld Angle - 1st Interc. >= 10.00 Deg
Angle @ Max Righting Arm >= 0.00 Deg
Downflood Angle    >= 0.00 Deg

```

With The Stability Results:
=====

```

Area Ratio          = 2.36      Passes
RA/HA Ratio         = 3.42      Passes
Dfld Height @ Equilibrium = 7.33 Ft  Passes
GM                  = 30.49 Ft  Passes
Arm Area @ Max Right Arm = 10.38 Ft*Deg Passes
Arm Area @ Dfld     = 31.74 Ft*Deg Passes
Arm Area @ 40 Degrees = 31.79 Ft*Deg Passes
Area Under Righting Arm = 30.87 Ft*Deg Passes
Static Heel w/o Wind = 0.02 Deg  Passes
Static Heel Due to Wind = 1.38 Deg  Passes
Range               = 17.07 Deg  Passes
2nd - 1st Intercepts = 13.74 Deg  Passes
Dfld Angle - 1st Interc. = 15.30 Deg  Passes
Angle @ Max Right Arm = 6.00 Deg  Passes
Downflood Angle    = 16.68 Deg  Passes

```

```

*****
*                                     *** MOSES ***                               *
*                                     -----                               *
*                                     March 26, 2001                               *
* L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H           *
* VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= -15                               *
*
*****

```

+++ R I G H T I N G A R M R E S U L T S +++
=====

Process is DEFAULT: Units Are Degrees, Feet, and S-Tons Unless Specified

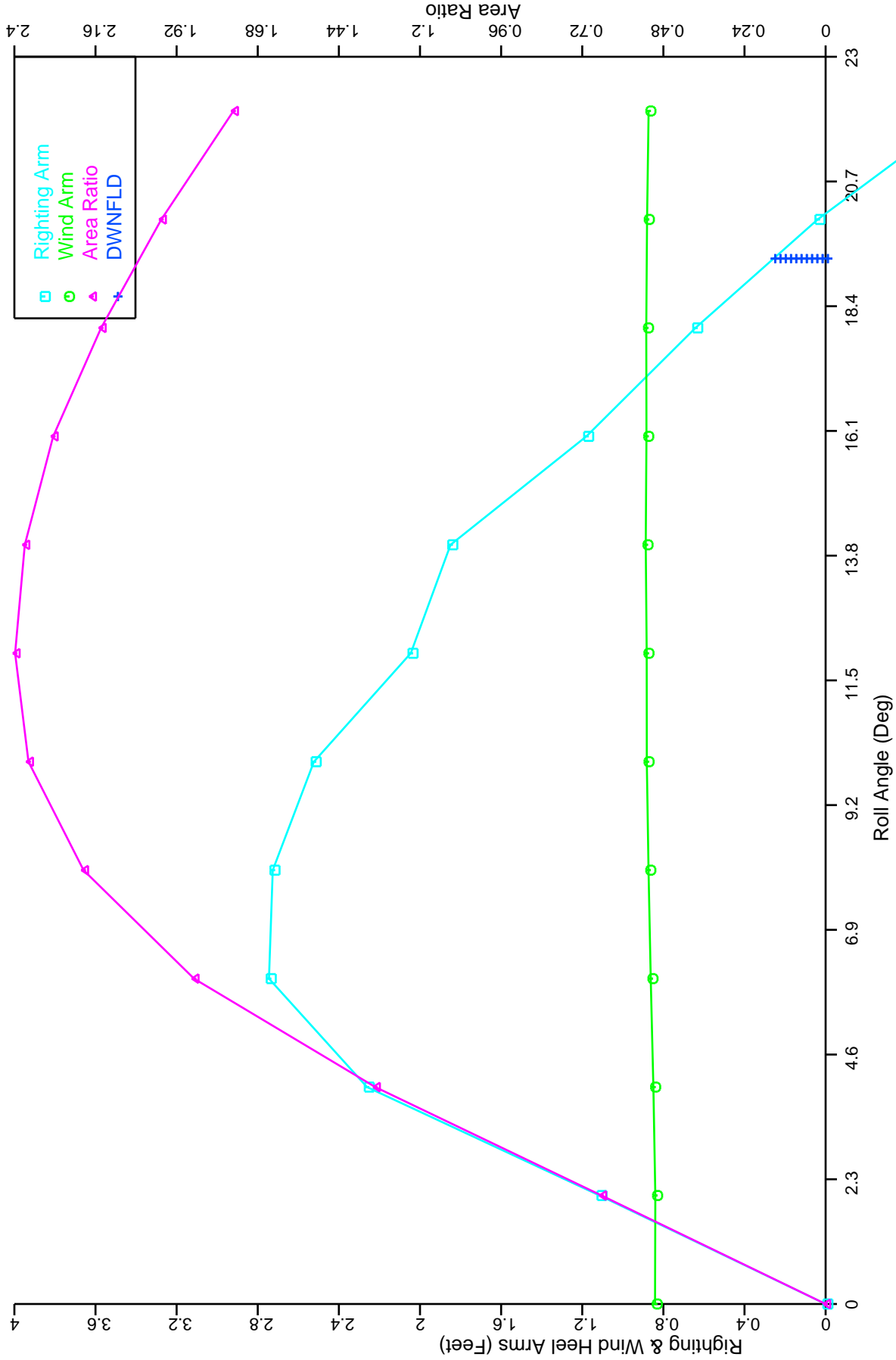
Moment Scaled By 575.68, KG = 19.78, and Wind Speed = 70. Knots

Initial: Roll = 0.00, Trim = 0.00 Deg.

Arms About Axis Yawed -15.0 Deg From Vessel X

/----- Condition -----/			/-- Min. Height --/		/--- Righting ---/		/--- Heeling ---/		Area	Net
Draft	Roll	Trim	W Tight	NW Tight	Arm	Area	Arm	Area	Ratio	Arm
6.25	0.00	0.00	7.75	0.00	0.00	0.00	0.84	0.00	0.000	-0.84
6.39	2.00	0.33	7.18	0.00	1.11	1.11	0.84	1.68	0.663	0.27
6.56	4.00	0.63	6.58	0.00	2.26	4.49	0.85	3.37	1.332	1.41
6.64	6.00	1.13	5.92	0.00	2.74	9.49	0.86	5.08	1.869	1.88
6.71	8.00	1.75	5.18	0.00	2.73	14.96	0.87	6.82	2.195	1.85
6.78	10.00	2.43	4.37	0.00	2.52	20.21	0.88	8.57	2.358	1.64
6.39	12.00	3.82	3.51	0.00	2.05	24.78	0.88	10.34	2.398	1.16
6.90	14.00	3.95	2.61	0.00	1.85	28.68	0.89	12.10	2.369	0.96
6.23	16.00	5.85	1.65	0.00	1.18	31.71	0.88	13.87	2.285	0.30
6.00	18.00	7.12	0.67	0.00	0.64	33.53	0.88	15.64	2.143	-0.24
5.61	20.00	8.68	-0.36	0.00	0.04	34.21	0.88	17.41	1.965	-0.84
4.85	22.00	10.82	-1.45	0.00	-0.68	33.57	0.87	19.16	1.752	-1.55

L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H
 VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= -15



```

*****
*                                     *** MOSES ***                               *
*                                     -----                               *
*                                     March 26, 2001                               *
* L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H           *
* VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= -15                               *
*
*****

```

+++ S T A B I L I T Y S U M M A R Y +++
=====

The Following Intact Condition
=====

```

Draft      = 6.25 Ft
Roll       = 0.00 Deg
Pitch      = 0.00 Deg
VCG        = 19.78 Ft
Axis Angle = -15.00 Deg
Wind Vel   = 70.00 Knots

```

Passes All of The Stability Requirements:
=====

```

Area Ratio          >= 1.40
RA/HA Ratio         >= 0.00
Dfld Height @ Equilibrium >= 0.10 Ft
GM                  >= 1.00 Ft
Arm Area @ Max Right Arm >= 0.00 Ft*Deg
Arm Area @ Dfld     >= 5.00 Ft*Deg
Arm Area @ 40 Degrees >= 0.00 Ft*Deg
Area Under Righting Arm >= 5.00 Ft*Deg
Static Heel w/o Wind <= 90.00 Deg
Static Heel Due to Wind <= 90.00 Deg
Range (Second Intercept) >= 0.00 Deg
2nd - 1st Intercepts >= 10.00 Deg
Dfld Angle - 1st Interc. >= 10.00 Deg
Angle @ Max Righting Arm >= 0.00 Deg
Downflood Angle    >= 0.00 Deg

```

With The Stability Results:
=====

```

Area Ratio          = 2.21      Passes
RA/HA Ratio         = 3.18      Passes
Dfld Height @ Equilibrium = 7.32 Ft Passes
GM                  = 30.49 Ft Passes
Arm Area @ Max Right Arm = 9.47 Ft*Deg Passes
Arm Area @ Dfld     = 33.96 Ft*Deg Passes
Arm Area @ 40 Degrees = 33.57 Ft*Deg Passes
Area Under Righting Arm = 32.68 Ft*Deg Passes
Static Heel w/o Wind = 0.02 Deg Passes
Static Heel Due to Wind = 1.51 Deg Passes
Range               = 20.08 Deg Passes
2nd - 1st Intercepts = 15.59 Deg Passes
Dfld Angle - 1st Interc. = 17.77 Deg Passes
Angle @ Max Right Arm = 6.00 Deg Passes
Downflood Angle    = 19.28 Deg Passes

```

```

*****
*                                     *** MOSES ***                               *
*                                     -----                               *
*                                     March 26, 2001                               *
* L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H           *
* VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= 0                               *
*                                     *****                               *

```

+++ R I G H T I N G A R M R E S U L T S +++
=====

Process is DEFAULT: Units Are Degrees, Feet, and S-Tons Unless Specified

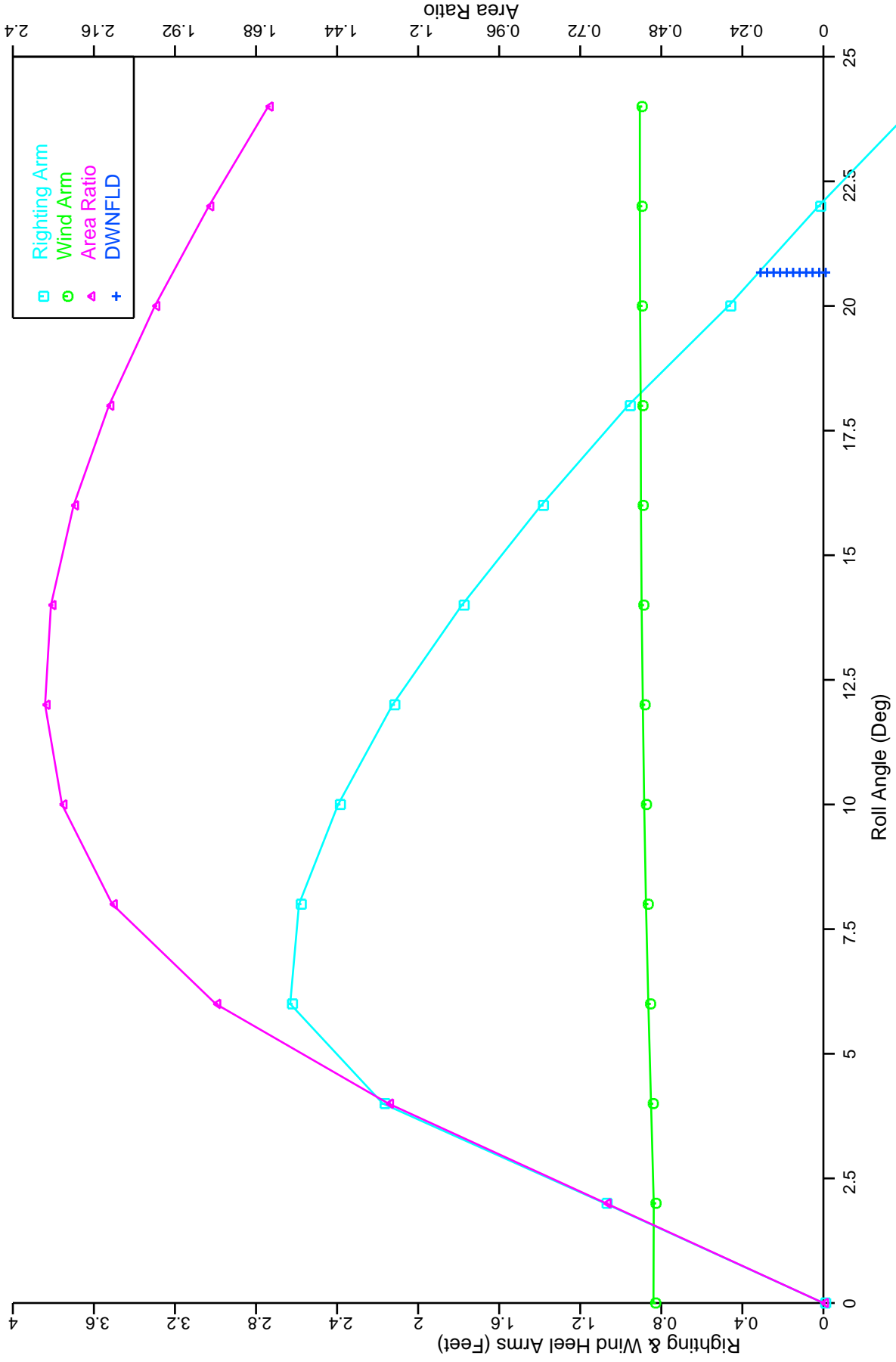
Moment Scaled By 575.68, KG = 19.78, and Wind Speed = 70. Knots

Initial: Roll = 0.00, Trim = 0.00 Deg.

Arms About Axis Yawed 0.0 Deg From Vessel X

/----- Condition -----/		/-- Min. Height --/		/--- Righting ---/		/--- Heeling ---/		Area	Net	
Draft	Roll	Trim	W Tight	NW Tight	Arm	Area	Arm	Area	Ratio	Arm
6.25	0.00	0.00	7.75	0.00	0.00	0.00	0.84	0.00	0.000	-0.84
6.25	2.00	0.00	7.20	0.00	1.08	1.08	0.84	1.68	0.644	0.24
6.25	4.00	0.00	6.64	0.00	2.17	4.33	0.85	3.36	1.288	1.32
6.30	6.00	0.00	6.00	0.00	2.63	9.14	0.86	5.08	1.799	1.77
6.02	8.00	0.54	5.34	0.00	2.59	14.36	0.88	6.82	2.106	1.71
5.87	10.00	0.97	4.61	0.00	2.39	19.34	0.88	8.58	2.255	1.51
5.90	12.00	1.21	3.81	0.00	2.13	23.86	0.89	10.35	2.305	1.24
5.89	14.00	1.55	2.97	0.00	1.78	27.77	0.90	12.14	2.287	0.89
5.84	16.00	1.96	2.11	0.00	1.39	30.95	0.90	13.94	2.220	0.49
5.80	18.00	2.39	1.22	0.00	0.96	33.30	0.90	15.74	2.116	0.06
5.52	20.00	3.18	0.32	0.00	0.47	34.74	0.90	17.55	1.980	-0.44
5.77	22.00	3.18	-0.61	0.00	0.02	35.23	0.91	19.36	1.820	-0.88
6.01	24.00	3.18	-1.53	0.00	-0.45	34.80	0.91	21.17	1.644	-1.36

L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H
 VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= 0



```

*****
*                                     *** MOSES ***                               *
*                                     -----                               *
*                                     March 26, 2001                               *
* L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H           *
* VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= 0                               *
*
*****

```

+++ S T A B I L I T Y S U M M A R Y +++
=====

The Following Intact Condition
=====

```

Draft      = 6.25 Ft
Roll       = 0.00 Deg
Pitch      = 0.00 Deg
VCG        = 19.78 Ft
Axis Angle = 0.00 Deg
Wind Vel   = 70.00 Knots

```

Passes All of The Stability Requirements:
=====

```

Area Ratio          >= 1.40
RA/HA Ratio         >= 0.00
Dfld Height @ Equilibrium >= 0.10 Ft
GM                  >= 1.00 Ft
Arm Area @ Max Right Arm >= 0.00 Ft*Deg
Arm Area @ Dfld     >= 5.00 Ft*Deg
Arm Area @ 40 Degrees >= 0.00 Ft*Deg
Area Under Righting Arm >= 5.00 Ft*Deg
Static Heel w/o Wind <= 90.00 Deg
Static Heel Due to Wind <= 90.00 Deg
Range (Second Intercept) >= 0.00 Deg
2nd - 1st Intercepts >= 10.00 Deg
Dfld Angle - 1st Interc. >= 10.00 Deg
Angle @ Max Righting Arm >= 0.00 Deg
Downflood Angle    >= 0.00 Deg

```

With The Stability Results:
=====

```

Area Ratio          = 2.10          Passes
RA/HA Ratio         = 3.05          Passes
Dfld Height @ Equilibrium = 7.33 Ft      Passes
GM                  = 30.49 Ft      Passes
Arm Area @ Max Right Arm = 9.11 Ft*Deg  Passes
Arm Area @ Dfld     = 34.90 Ft*Deg  Passes
Arm Area @ 40 Degrees = 34.81 Ft*Deg  Passes
Area Under Righting Arm = 33.46 Ft*Deg  Passes
Static Heel w/o Wind = 0.02 Deg     Passes
Static Heel Due to Wind = 1.55 Deg     Passes
Range               = 22.06 Deg     Passes
2nd - 1st Intercepts = 16.70 Deg     Passes
Dfld Angle - 1st Interc. = 19.12 Deg     Passes
Angle @ Max Right Arm = 6.00 Deg     Passes
Downflood Angle    = 20.67 Deg     Passes

```

```

*****
*                                     *** MOSES ***                               *
*                                     -----                               *
*                                     March 26, 2001                               *
* L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H           *
* VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= 15                               *
*
*****

```

+++ R I G H T I N G A R M R E S U L T S +++
=====

Process is DEFAULT: Units Are Degrees, Feet, and S-Tons Unless Specified

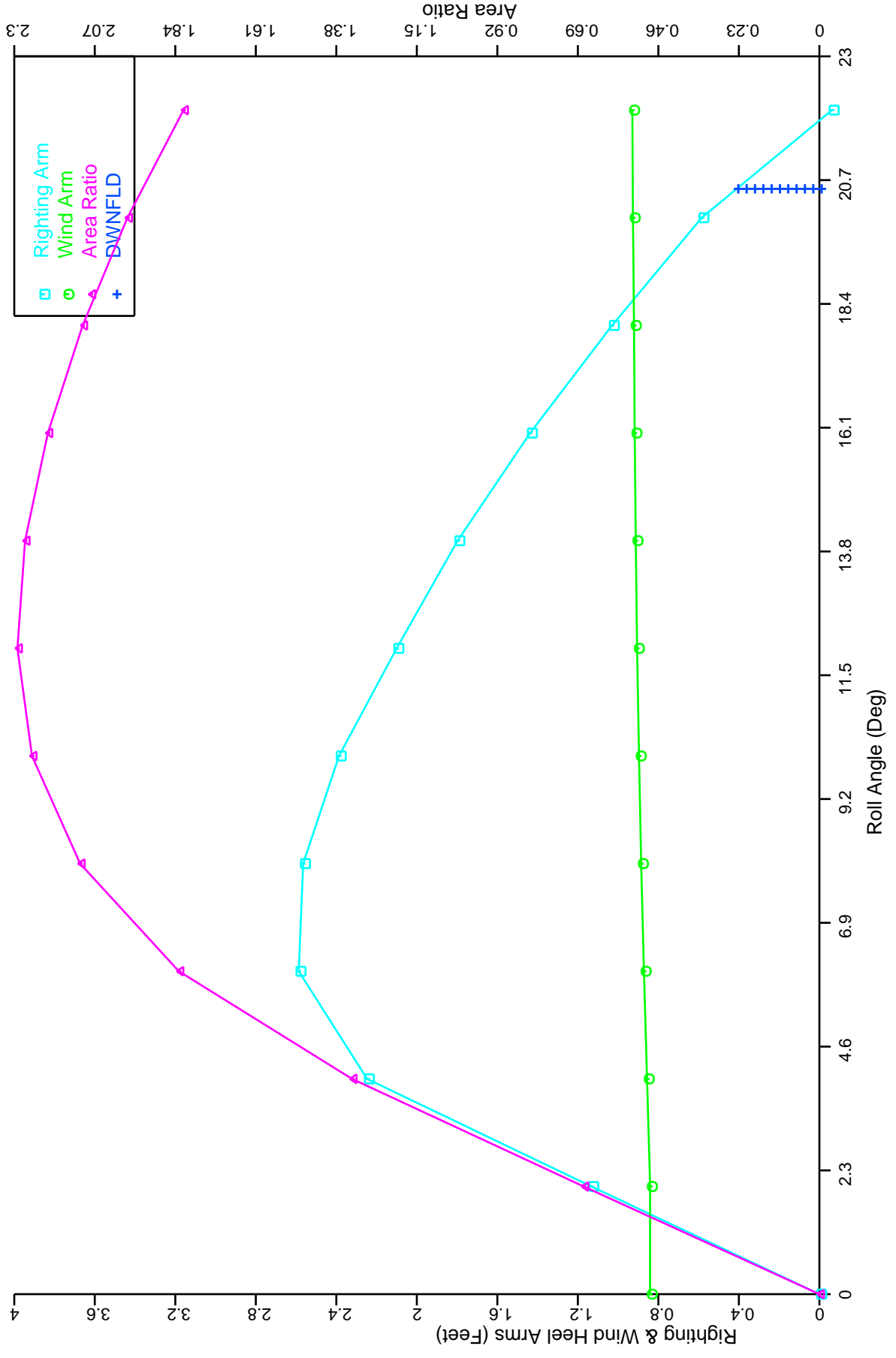
Moment Scaled By 575.68, KG = 19.78, and Wind Speed = 70. Knots

Initial: Roll = 0.00, Trim = 0.00 Deg.

Arms About Axis Yawed 15.0 Deg From Vessel X

/----- Condition -----/			/-- Min. Height --/		/--- Righting ---/		/--- Heeling ---/		Area	Net
Draft	Roll	Trim	W Tight	NW Tight	Arm	Area	Arm	Area	Ratio	Arm
6.25	0.00	0.00	7.75	0.00	0.00	0.00	0.84	0.00	0.000	-0.84
6.14	2.00	-0.38	7.21	0.00	1.13	1.13	0.84	1.68	0.673	0.29
6.01	4.00	-0.73	6.65	0.00	2.25	4.51	0.86	3.38	1.335	1.39
6.09	6.00	-1.29	5.98	0.00	2.59	9.34	0.87	5.11	1.830	1.71
6.04	8.00	-1.59	5.29	0.00	2.56	14.50	0.89	6.86	2.112	1.68
6.07	10.00	-1.92	4.53	0.00	2.39	19.45	0.90	8.65	2.249	1.49
6.20	12.00	-2.33	3.69	0.00	2.10	23.93	0.91	10.45	2.291	1.19
6.05	14.00	-2.33	2.90	0.00	1.80	27.83	0.91	12.27	2.269	0.89
5.94	16.00	-2.33	2.07	0.00	1.44	31.07	0.92	14.10	2.204	0.52
5.84	18.00	-2.33	1.21	0.00	1.03	33.53	0.92	15.93	2.105	0.11
5.76	20.00	-2.33	0.34	0.00	0.58	35.15	0.93	17.78	1.977	-0.34
7.25	22.00	-4.65	-0.88	0.00	-0.06	35.67	0.93	19.64	1.817	-0.99

L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H
 VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= 15



```

*****
*                               *** MOSES ***                               *
*                               -----                               *
*                               March 26, 2001                               *
*                               L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H *
*                               VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= 15 *
*                               *****                               *

```

+++ S T A B I L I T Y S U M M A R Y +++
=====

The Following Intact Condition
=====

```

Draft      = 6.25 Ft
Roll       = 0.00 Deg
Pitch      = 0.00 Deg
VCG        = 19.78 Ft
Axis Angle = 15.00 Deg
Wind Vel   = 70.00 Knots

```

Passes All of The Stability Requirements:
=====

```

Area Ratio           >= 1.40
RA/HA Ratio          >= 0.00
Dfld Height @ Equilibrium >= 0.10 Ft
GM                   >= 1.00 Ft
Arm Area @ Max Right Arm >= 0.00 Ft*Deg
Arm Area @ Dfld      >= 5.00 Ft*Deg
Arm Area @ 40 Degrees >= 0.00 Ft*Deg
Area Under Righting Arm >= 5.00 Ft*Deg
Static Heel w/o Wind  <= 90.00 Deg
Static Heel Due to Wind <= 90.00 Deg
Range (Second Intercept) >= 0.00 Deg
2nd - 1st Intercepts >= 10.00 Deg
Dfld Angle - 1st Interc. >= 10.00 Deg
Angle @ Max Righting Arm >= 0.00 Deg
Downflood Angle     >= 0.00 Deg

```

With The Stability Results:
=====

```

Area Ratio           = 2.07      Passes
RA/HA Ratio          = 2.97      Passes
Dfld Height @ Equilibrium = 7.35 Ft Passes
GM                   = 30.49 Ft Passes
Arm Area @ Max Right Arm = 9.32 Ft*Deg Passes
Arm Area @ Dfld      = 35.29 Ft*Deg Passes
Arm Area @ 40 Degrees = 35.67 Ft*Deg Passes
Area Under Righting Arm = 33.90 Ft*Deg Passes
Static Heel w/o Wind  = 0.02 Deg Passes
Static Heel Due to Wind = 1.49 Deg Passes
Range                = 21.78 Deg Passes
2nd - 1st Intercepts = 17.00 Deg Passes
Dfld Angle - 1st Interc. = 19.05 Deg Passes
Angle @ Max Right Arm = 6.00 Deg Passes
Downflood Angle     = 20.54 Deg Passes

```

```

*****
*                               *** MOSES ***                               *
*                               -----                               *
*                               March 26, 2001                               *
*                               L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H *
*                               VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= 30 *
*                               *****                               *

```

+++ R I G H T I N G A R M R E S U L T S +++
=====

Process is DEFAULT: Units Are Degrees, Feet, and S-Tons Unless Specified

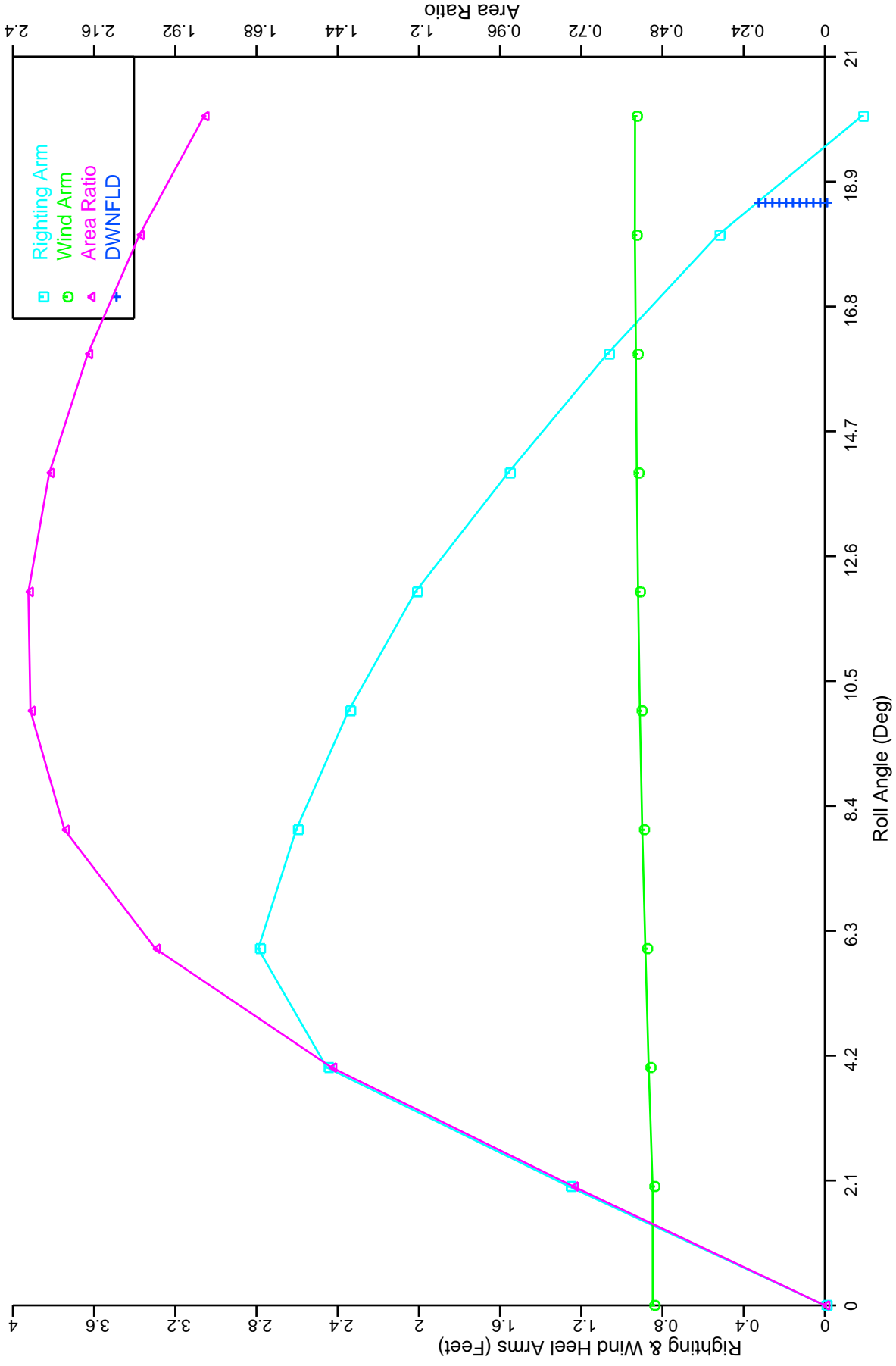
Moment Scaled By 575.68, KG = 19.78, and Wind Speed = 70. Knots

Initial: Roll = 0.00, Trim = 0.00 Deg.

Arms About Axis Yawed 30.0 Deg From Vessel X

/----- Condition -----/			/-- Min. Height --/		/--- Righting ---/		/--- Heeling ---/		Area	Net
Draft	Roll	Trim	W Tight	NW Tight	Arm	Area	Arm	Area	Ratio	Arm
6.25	0.00	0.00	7.75	0.00	0.00	0.00	0.85	0.00	0.000	-0.85
6.03	2.00	-0.81	7.19	0.00	1.26	1.26	0.85	1.70	0.743	0.41
5.71	4.00	-1.43	6.65	0.00	2.45	4.97	0.87	3.41	1.457	1.59
5.44	6.00	-2.04	6.03	0.00	2.79	10.22	0.88	5.16	1.979	1.91
5.55	8.00	-3.15	5.22	0.00	2.60	15.61	0.90	6.95	2.247	1.70
5.59	10.00	-4.05	4.38	0.00	2.35	20.56	0.91	8.76	2.348	1.44
5.64	12.00	-4.89	3.49	0.00	2.02	24.93	0.92	10.59	2.354	1.10
5.92	14.00	-6.02	2.48	0.00	1.56	28.51	0.93	12.43	2.292	0.63
6.24	16.00	-7.17	1.44	0.00	1.07	31.14	0.93	14.29	2.179	0.14
6.66	18.00	-8.45	0.35	0.00	0.53	32.74	0.94	16.16	2.026	-0.41
7.51	20.00	-10.42	-0.90	0.00	-0.18	33.08	0.93	18.03	1.835	-1.12

L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H
 VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= 30



```

*****
*                               *** MOSES ***                               *
*                               -----                               *
*                               March 26, 2001                               *
*                               L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H *
*                               VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= 30 *
*                               *****                               *

```

+++ S T A B I L I T Y S U M M A R Y +++
=====

The Following Intact Condition
=====

```

Draft      = 6.25 Ft
Roll       = 0.00 Deg
Pitch      = 0.00 Deg
VCG        = 19.78 Ft
Axis Angle = 30.00 Deg
Wind Vel   = 70.00 Knots

```

Passes All of The Stability Requirements:
=====

```

Area Ratio          >= 1.40
RA/HA Ratio         >= 0.00
Dfld Height @ Equilibrium >= 0.10 Ft
GM                  >= 1.00 Ft
Arm Area @ Max Right Arm >= 0.00 Ft*Deg
Arm Area @ Dfld     >= 5.00 Ft*Deg
Arm Area @ 40 Degrees >= 0.00 Ft*Deg
Area Under Righting Arm >= 5.00 Ft*Deg
Static Heel w/o Wind <= 90.00 Deg
Static Heel Due to Wind <= 90.00 Deg
Range (Second Intercept) >= 0.00 Deg
2nd - 1st Intercepts >= 10.00 Deg
Dfld Angle - 1st Interc. >= 10.00 Deg
Angle @ Max Righting Arm >= 0.00 Deg
Downflood Angle     >= 0.00 Deg

```

With The Stability Results:
=====

```

Area Ratio          = 2.14      Passes
RA/HA Ratio         = 3.16      Passes
Dfld Height @ Equilibrium = 7.38 Ft Passes
GM                  = 30.49 Ft Passes
Arm Area @ Max Right Arm = 10.19 Ft*Deg Passes
Arm Area @ Dfld     = 32.83 Ft*Deg Passes
Arm Area @ 40 Degrees = 33.08 Ft*Deg Passes
Area Under Righting Arm = 31.53 Ft*Deg Passes
Static Heel w/o Wind = 0.02 Deg Passes
Static Heel Due to Wind = 1.35 Deg Passes
Range               = 19.46 Deg Passes
2nd - 1st Intercepts = 15.17 Deg Passes
Dfld Angle - 1st Interc. = 17.20 Deg Passes
Angle @ Max Right Arm = 6.00 Deg Passes
Downflood Angle     = 18.55 Deg Passes

```

```

*****
*                               *** MOSES ***                               *
*                               -----                               *
*                               March 26, 2001                               *
*                               L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H *
*                               VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= 45 *
*                               *****                               *

```

+++ R I G H T I N G A R M R E S U L T S +++
=====

Process is DEFAULT: Units Are Degrees, Feet, and S-Tons Unless Specified

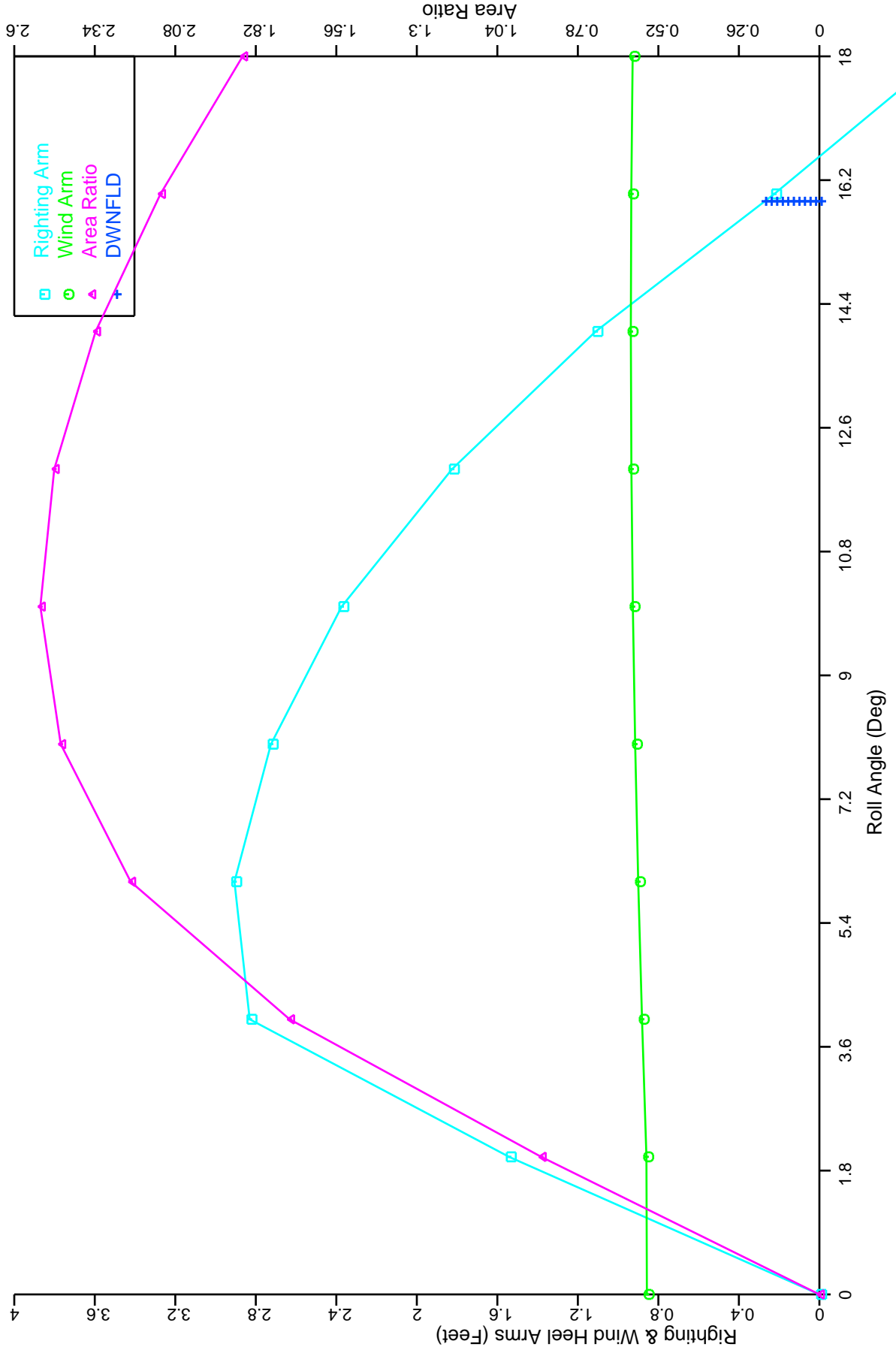
Moment Scaled By 575.68, KG = 19.78, and Wind Speed = 70. Knots

Initial: Roll = 0.00, Trim = 0.00 Deg.

Arms About Axis Yawed 45.0 Deg From Vessel X

/----- Condition -----/			/-- Min. Height --/		/--- Righting ---/		/--- Heeling ---/		Area	Net
Draft	Roll	Trim	W Tight	NW Tight	Arm	Area	Arm	Area	Ratio	Arm
6.25	0.00	0.00	7.75	0.00	0.00	0.00	0.86	0.00	0.000	-0.86
5.82	2.00	-1.16	7.19	0.00	1.54	1.54	0.86	1.72	0.898	0.68
5.28	4.00	-2.08	6.66	0.00	2.83	5.91	0.88	3.46	1.711	1.95
5.14	6.00	-3.58	5.87	0.00	2.91	11.65	0.90	5.24	2.224	2.01
4.99	8.00	-4.92	5.02	0.00	2.72	17.28	0.92	7.05	2.450	1.81
4.95	10.00	-6.34	4.07	0.00	2.37	22.38	0.93	8.90	2.516	1.45
5.19	12.00	-8.15	2.93	0.00	1.82	26.58	0.93	10.76	2.471	0.89
5.77	14.00	-10.44	1.56	0.00	1.11	29.51	0.94	12.63	2.337	0.17
6.77	16.00	-13.42	-0.08	0.00	0.22	30.85	0.93	14.50	2.128	-0.71
7.75	18.00	-16.40	-1.68	0.00	-0.60	30.47	0.93	16.36	1.862	-1.53

L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H
 VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= 45



```

*****
*                               *** MOSES ***                               *
*                               -----                               *
*                               March 26, 2001                               *
*                               L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H *
*                               VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= 45 *
*                               *****                               *

```

+++ S T A B I L I T Y S U M M A R Y +++
=====

The Following Intact Condition
=====

```

Draft      = 6.25 Ft
Roll       = 0.00 Deg
Pitch      = 0.00 Deg
VCG        = 19.78 Ft
Axis Angle = 45.00 Deg
Wind Vel   = 70.00 Knots

```

Passes All of The Stability Requirements:
=====

```

Area Ratio          >= 1.40
RA/HA Ratio         >= 0.00
Dfld Height @ Equilibrium >= 0.10 Ft
GM                  >= 1.00 Ft
Arm Area @ Max Right Arm >= 0.00 Ft*Deg
Arm Area @ Dfld     >= 5.00 Ft*Deg
Arm Area @ 40 Degrees >= 0.00 Ft*Deg
Area Under Righting Arm >= 5.00 Ft*Deg
Static Heel w/o Wind <= 90.00 Deg
Static Heel Due to Wind <= 90.00 Deg
Range (Second Intercept) >= 0.00 Deg
2nd - 1st Intercepts >= 10.00 Deg
Dfld Angle - 1st Interc. >= 10.00 Deg
Angle @ Max Righting Arm >= 0.00 Deg
Downflood Angle    >= 0.00 Deg

```

With The Stability Results:
=====

```

Area Ratio          = 2.29      Passes
RA/HA Ratio         = 3.23      Passes
Dfld Height @ Equilibrium = 7.44 Ft  Passes
GM                  = 30.49 Ft  Passes
Arm Area @ Max Right Arm = 11.62 Ft*Deg Passes
Arm Area @ Dfld     = 30.77 Ft*Deg Passes
Arm Area @ 40 Degrees = 30.47 Ft*Deg Passes
Area Under Righting Arm = 29.75 Ft*Deg Passes
Static Heel w/o Wind = 0.01 Deg  Passes
Static Heel Due to Wind = 1.11 Deg  Passes
Range               = 16.52 Deg  Passes
2nd - 1st Intercepts = 13.28 Deg  Passes
Dfld Angle - 1st Interc. = 14.78 Deg  Passes
Angle @ Max Right Arm = 6.00 Deg   Passes
Downflood Angle     = 15.89 Deg  Passes

```

```

*****
*                               *** MOSES ***                               *
*                               -----                               *
*                               March 26, 2001                               *
*                               L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H *
*                               VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= 60 *
*                               *****                               *

```

+++ R I G H T I N G A R M R E S U L T S +++
=====

Process is DEFAULT: Units Are Degrees, Feet, and S-Tons Unless Specified

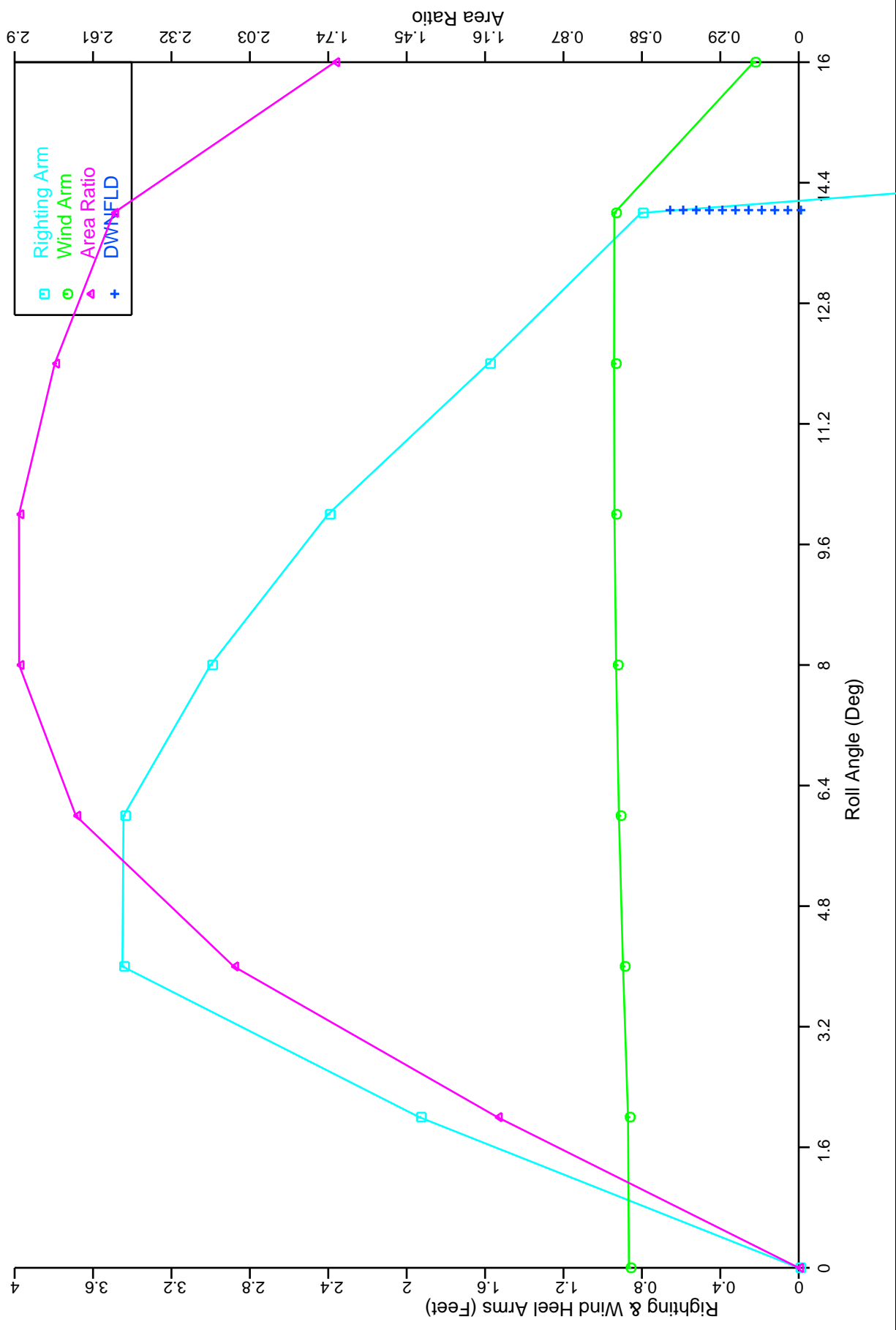
Moment Scaled By 575.68, KG = 19.78, and Wind Speed = 70. Knots

Initial: Roll = 0.00, Trim = 0.00 Deg.

Arms About Axis Yawed 60.0 Deg From Vessel X

/----- Condition -----/			/-- Min. Height --/		/--- Righting ---/		/--- Heeling ---/		Area	Net
Draft	Roll	Trim	W Tight	NW Tight	Arm	Area	Arm	Area	Ratio	Arm
6.25	0.00	0.00	7.75	0.00	0.00	0.00	0.87	0.00	0.000	-0.87
5.56	2.00	-1.57	7.19	0.00	1.94	1.94	0.87	1.74	1.115	1.07
4.70	4.00	-2.56	6.75	0.00	3.45	7.32	0.90	3.50	2.090	2.55
4.33	6.00	-4.56	5.86	0.00	3.44	14.22	0.92	5.32	2.674	2.53
4.17	8.00	-6.80	4.76	0.00	3.00	20.66	0.93	7.17	2.883	2.07
4.16	10.00	-9.17	3.52	0.00	2.40	26.06	0.94	9.04	2.884	1.46
4.49	12.00	-12.15	1.95	0.00	1.58	30.05	0.94	10.92	2.752	0.64
4.91	14.00	-15.13	0.31	0.00	0.80	32.44	0.94	12.80	2.533	-0.14
14.40	16.00-164.10		-15.80	0.00	-9.26	23.98	0.23	13.97	1.716	-9.49

L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H
 VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= 60



```

*****
*                               *** MOSES ***                               *
*                               -----                               *
*                               March 26, 2001                               *
*                               L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H *
*                               VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= 60 *
*                               *****                               *

```

+++ S T A B I L I T Y S U M M A R Y +++
=====

The Following Intact Condition
=====

```

Draft      = 6.25 Ft
Roll       = 0.00 Deg
Pitch      = 0.00 Deg
VCG        = 19.78 Ft
Axis Angle = 60.00 Deg
Wind Vel   = 70.00 Knots

```

Passes All of The Stability Requirements:
=====

```

Area Ratio          >= 1.40
RA/HA Ratio         >= 0.00
Dfld Height @ Equilibrium >= 0.10 Ft
GM                  >= 1.00 Ft
Arm Area @ Max Right Arm >= 0.00 Ft*Deg
Arm Area @ Dfld     >= 5.00 Ft*Deg
Arm Area @ 40 Degrees >= 0.00 Ft*Deg
Area Under Righting Arm >= 5.00 Ft*Deg
Static Heel w/o Wind <= 90.00 Deg
Static Heel Due to Wind <= 90.00 Deg
Range (Second Intercept) >= 0.00 Deg
2nd - 1st Intercepts >= 10.00 Deg
Dfld Angle - 1st Interc. >= 10.00 Deg
Angle @ Max Righting Arm >= 0.00 Deg
Downflood Angle    >= 0.00 Deg

```

With The Stability Results:
=====

```

Area Ratio          = 2.57      Passes
RA/HA Ratio         = 3.85      Passes
Dfld Height @ Equilibrium = 7.50 Ft  Passes
GM                  = 30.49 Ft  Passes
Arm Area @ Max Right Arm = 7.30 Ft*Deg Passes
Arm Area @ Dfld     = 32.32 Ft*Deg Passes
Arm Area @ 40 Degrees = 24.02 Ft*Deg Passes
Area Under Righting Arm = 31.99 Ft*Deg Passes
Static Heel w/o Wind = 0.01 Deg  Passes
Static Heel Due to Wind = 0.90 Deg  Passes
Range               = 14.16 Deg  Passes
2nd - 1st Intercepts = 12.75 Deg  Passes
Dfld Angle - 1st Interc. = 13.14 Deg  Passes
Angle @ Max Right Arm = 4.00 Deg  Passes
Downflood Angle    = 14.04 Deg  Passes

```

```

*****
*                                     *** MOSES ***                               *
*                                     -----                               *
*                                     March 26, 2001                               *
* L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H           *
* VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= 75                               *
*
*****

```

+++ R I G H T I N G A R M R E S U L T S +++
=====

Process is DEFAULT: Units Are Degrees, Feet, and S-Tons Unless Specified

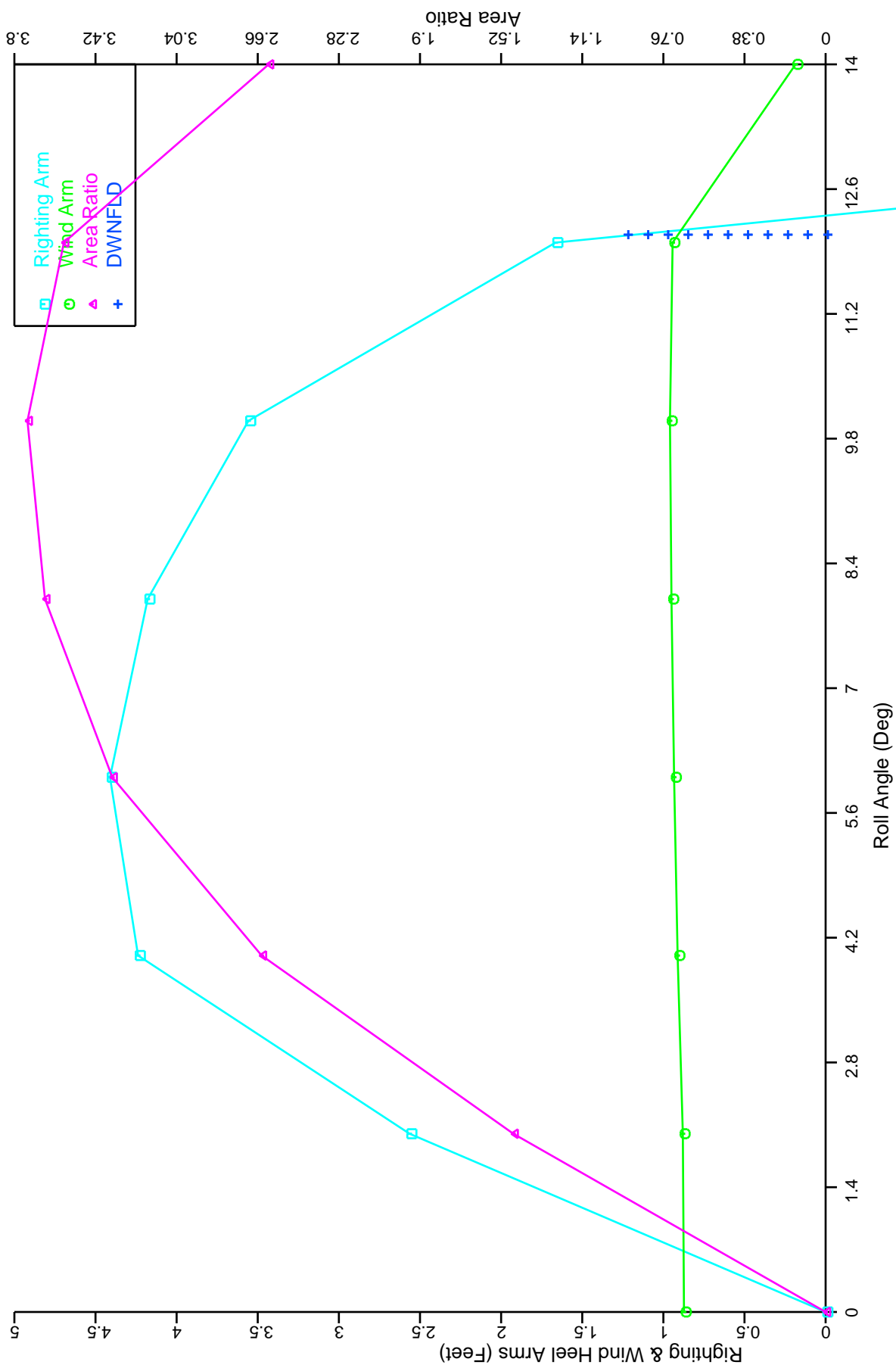
Moment Scaled By 575.68, KG = 19.78, and Wind Speed = 70. Knots

Initial: Roll = 0.00, Trim = 0.00 Deg.

Arms About Axis Yawed 75.0 Deg From Vessel X

/----- Condition -----/			/-- Min. Height --/		/--- Righting ---/		/--- Heeling ---/		Area	Net
Draft	Roll	Trim	W Tight	NW Tight	Arm	Area	Arm	Area	Ratio	Arm
6.25	0.00	0.00	7.75	0.00	0.00	0.00	0.87	0.00	0.000	-0.87
5.11	2.00	-1.39	7.39	0.00	2.56	2.56	0.88	1.75	1.463	1.68
3.98	4.00	-2.58	7.01	0.00	4.24	9.37	0.91	3.55	2.642	3.33
3.19	6.00	-4.68	6.19	0.00	4.41	18.01	0.93	5.39	3.341	3.48
2.56	8.00	-6.97	5.16	0.00	4.18	26.60	0.95	7.28	3.657	3.23
2.20	10.00	-9.95	3.78	0.00	3.56	34.34	0.96	9.18	3.739	2.60
3.04	12.00	-16.67	0.74	0.00	1.66	39.56	0.94	11.09	3.568	0.72
10.29	14.00	-165.63	-15.78	0.00	-9.36	31.86	0.18	12.21	2.608	-9.55

L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H
 VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= 75



```

*****
*                               *** MOSES ***                               *
*                               -----                               *
*                               March 26, 2001                               *
*                               L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H *
*                               VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= 75 *
*                               *****                               *

```

+++ S T A B I L I T Y S U M M A R Y +++
=====

The Following Intact Condition
=====

```

Draft      = 6.25 Ft
Roll       = 0.00 Deg
Pitch      = 0.00 Deg
VCG        = 19.78 Ft
Axis Angle = 75.00 Deg
Wind Vel   = 70.00 Knots

```

Passes All of The Stability Requirements:
=====

```

Area Ratio          >= 1.40
RA/HA Ratio         >= 0.00
Dfld Height @ Equilibrium >= 0.10 Ft
GM                 >= 1.00 Ft
Arm Area @ Max Right Arm >= 0.00 Ft*Deg
Arm Area @ Dfld     >= 5.00 Ft*Deg
Arm Area @ 40 Degrees >= 0.00 Ft*Deg
Area Under Righting Arm >= 5.00 Ft*Deg
Static Heel w/o Wind <= 90.00 Deg
Static Heel Due to Wind <= 90.00 Deg
Range (Second Intercept) >= 0.00 Deg
2nd - 1st Intercepts >= 10.00 Deg
Dfld Angle - 1st Interc. >= 10.00 Deg
Angle @ Max Righting Arm >= 0.00 Deg
Downflood Angle    >= 0.00 Deg

```

With The Stability Results:
=====

```

Area Ratio          = 3.53      Passes
RA/HA Ratio         = 4.72      Passes
Dfld Height @ Equilibrium = 7.63 Ft  Passes
GM                 = 30.49 Ft  Passes
Arm Area @ Max Right Arm = 17.97 Ft*Deg Passes
Arm Area @ Dfld     = 39.26 Ft*Deg Passes
Arm Area @ 40 Degrees = 31.90 Ft*Deg Passes
Area Under Righting Arm = 39.23 Ft*Deg Passes
Static Heel w/o Wind = 0.01 Deg  Passes
Static Heel Due to Wind = 0.68 Deg  Passes
Range              = 12.30 Deg  Passes
2nd - 1st Intercepts = 11.46 Deg  Passes
Dfld Angle - 1st Interc. = 11.41 Deg  Passes
Angle @ Max Right Arm = 6.00 Deg  Passes
Downflood Angle    = 12.09 Deg  Passes

```

```

*****
*                               *** MOSES ***                               *
*                               -----                               *
*                               March 26, 2001                               *
*                               L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H *
*                               VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= 90 *
*                               *****                               *

```

+++ R I G H T I N G A R M R E S U L T S +++
=====

Process is DEFAULT: Units Are Degrees, Feet, and S-Tons Unless Specified

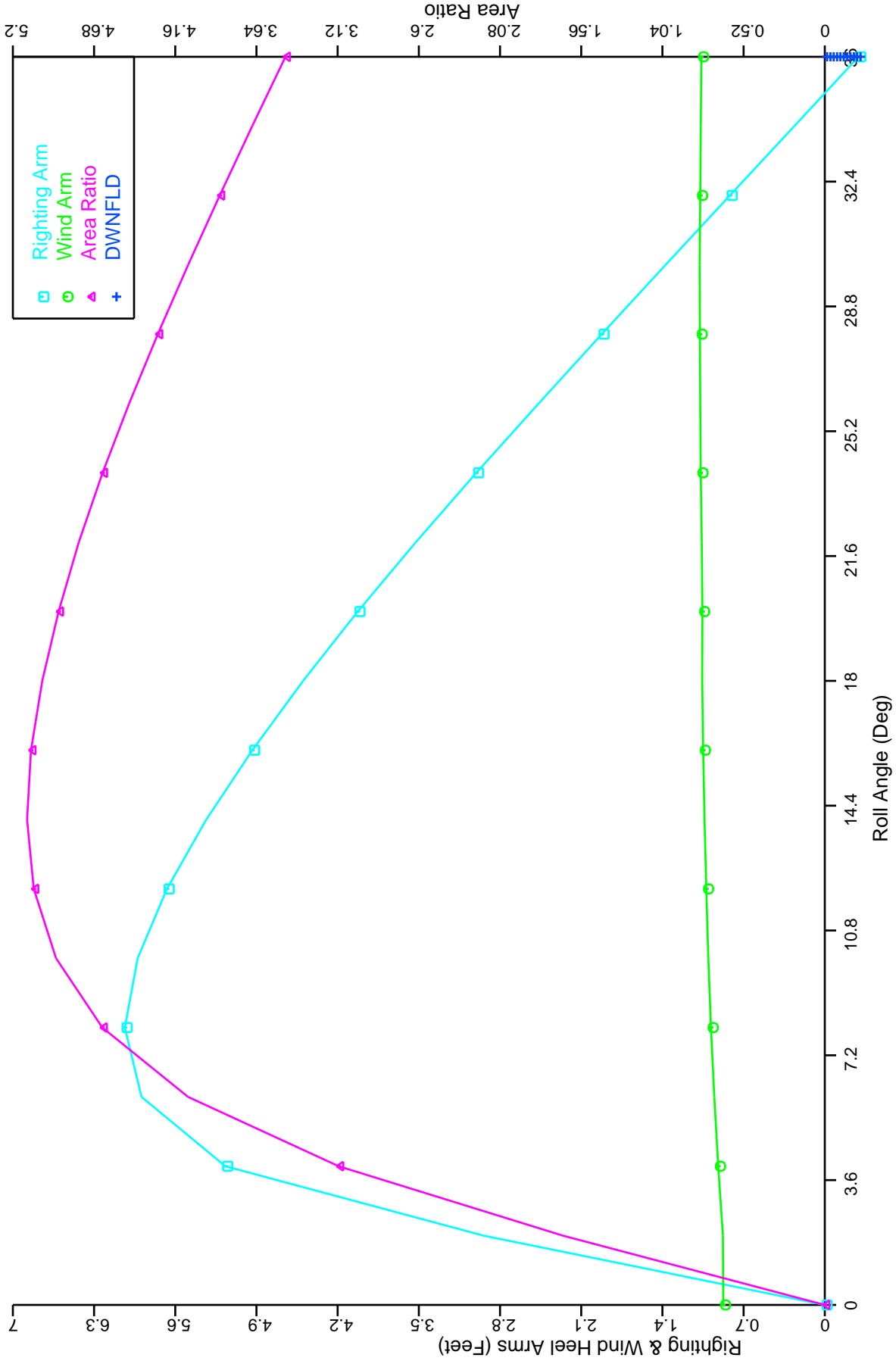
Moment Scaled By 575.68, KG = 19.78, and Wind Speed = 70. Knots

Initial: Roll = 0.00, Trim = 0.00 Deg.

Arms About Axis Yawed 90.0 Deg From Vessel X

Condition	Trim	Min. Height	Righting	Heeling	Area	Area	Area	Area	Area	Net Arm
Draft	Roll	W Tight	Arm	Arm	Ratio	Area	Area	Area	Area	Arm
6.25	0.00	7.75	0.00	0.88	0.00	0.000				-0.88
4.79	2.00	7.95	0.00	0.88	1.75	1.678				2.06
3.38	4.00	8.08	0.00	0.92	3.55	3.113				4.25
2.15	6.00	8.02	0.00	0.95	5.42	4.078				4.94
1.02	8.00	7.84	0.00	0.98	7.36	4.627				5.05
-0.04	10.00	7.59	0.00	1.00	9.34	4.924				4.92
-1.06	12.00	7.29	0.00	1.02	11.37	5.066				4.65
-2.05	14.00	6.94	0.00	1.04	13.43	5.109				4.30
-3.01	16.00	6.57	0.00	1.05	15.51	5.084				3.89
-3.96	18.00	6.17	0.00	1.06	17.62	5.012				3.44
-4.89	20.00	5.76	0.00	1.06	19.73	4.907				2.97
-5.82	22.00	5.34	0.00	1.06	21.85	4.778				2.46
-6.74	24.00	4.92	0.00	1.07	23.98	4.626				1.93
-7.66	26.00	4.50	0.00	1.07	26.12	4.455				1.39
-8.57	28.00	4.07	0.00	1.08	28.27	4.272				0.85
-9.48	30.00	3.65	0.00	1.08	30.43	4.077				0.29
-10.38	32.00	3.22	0.00	1.07	32.58	3.875				-0.26
-11.27	34.00	2.79	0.00	1.07	34.72	3.667				-0.81
-12.15	36.00	2.36	0.00	1.06	36.85	3.454				-1.35

L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H
 VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= 90



```

*****
*                               *** MOSES ***                               *
*                               -----                               *
*                               March 26, 2001                               *
*                               L/B MR. ALAN Rev1 - dwnflg at 35.92, 15.5, 14, DkCargo 30x20x16H *
*                               VCG= 19.78ft Draft=6.25ft Damage= NONE! Yaw= 90 *
*                               *****                               *

```

+++ S T A B I L I T Y S U M M A R Y +++
=====

The Following Intact Condition
=====

```

Draft      = 6.25 Ft
Roll       = 0.00 Deg
Pitch      = 0.00 Deg
VCG        = 19.78 Ft
Axis Angle = 90.00 Deg
Wind Vel   = 70.00 Knots

```

Passes All of The Stability Requirements:
=====

```

Area Ratio          >= 1.40
RA/HA Ratio         >= 0.00
Dfld Height @ Equilibrium >= 0.10 Ft
GM                  >= 1.00 Ft
Arm Area @ Max Right Arm >= 0.00 Ft*Deg
Arm Area @ Dfld     >= 5.00 Ft*Deg
Arm Area @ 40 Degrees >= 0.00 Ft*Deg
Area Under Righting Arm >= 5.00 Ft*Deg
Static Heel w/o Wind <= 90.00 Deg
Static Heel Due to Wind <= 90.00 Deg
Range (Second Intercept) >= 0.00 Deg
2nd - 1st Intercepts >= 10.00 Deg
Dfld Angle - 1st Interc. >= 10.00 Deg
Angle @ Max Righting Arm >= 0.00 Deg
Downflood Angle    >= 0.00 Deg

```

With The Stability Results:
=====

```

Area Ratio          = 3.97      Passes
RA/HA Ratio         = 6.15      Passes
Dfld Height @ Equilibrium = 7.81 Ft Passes
GM                  = 30.49 Ft Passes
Arm Area @ Max Right Arm = 33.98 Ft*Deg Passes
Arm Area @ Dfld     = 127.31 Ft*Deg Passes
Arm Area @ 40 Degrees = 127.31 Ft*Deg Passes
Area Under Righting Arm = 125.20 Ft*Deg Passes
Static Heel w/o Wind = 0.01 Deg Passes
Static Heel Due to Wind = 0.60 Deg Passes
Range               = 34.91 Deg Passes
2nd - 1st Intercepts = 30.47 Deg Passes
Dfld Angle - 1st Interc. = 35.40 Deg Passes
Angle @ Max Right Arm = 8.00 Deg Passes
Downflood Angle    = 36.00 Deg Passes

```