

Blue Pages

INSTRUCTIONS

1. Some of the questions in the deck examination booklets require the use of trim and stability reference material to answer the question. All of the material necessary to these questions is contained in the appropriate Merchant Marine Deck Examination Reference Book.

2. If a question requires the use of trim / stability reference materials, it will be specifically stated in the stem of the question. For example, if the question in your examination booklet is, "The sailing drafts are: FWD 24' - 03", AFT 25'-03" and the GM is 5.5 feet. Use the information in Section 1, the blue pages of the Stability Data Reference Book, to determine the available righting arm at 30 degrees inclination.", you must use Section 1 (the blue pages) of The Merchant Marine Deck Examination Reference Book, STABILITY DATA REFERENCE BOOK to answer the question.

3. The Merchant Marine Deck Examination Reference Book, STABILITY DATA REFERENCE BOOK, has three (3) sections. Each section has its own index and is color coded as follows:

1. Selected Stability Curves.....Blue Pages
2. Trim and Stability Book - S.S.American Mariner...White Pages
3. Trim and Stability Book - S.S.Northland.....Salmon Pages

4. Applicants taking an examination who wish to make a comment or protest concerning any material in this publication should complete a Comment/Protest form for the question involved and give it to the examiner.

5. Individuals not taking an examination who wish to make a comment on any material in this publication should send a written comment, citing this publication and the appropriate page, and paragraph or illustration commented on, to:

Commandant (G-MVP-5)  
U.S. Coast Guard  
STABILITY DATA REFERENCE BOOK  
2100 Second Street SW  
Washington, DC 20593-0001

All written comments submitted by the general public will be reviewed prior to revising this publication. A heavy workload precludes the Merchant Marine Examination Branch from discussing comments over the telephone or responding to written comments. Your comments are welcomed and you will receive a letter or postcard indicating your comments were received.

TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGES</u>
Selected Stability Curves	Blue Pages
Deadweight Scale	1
Hydrostatic Curves	2
Cross-Curves	3
*Statical Stability Curves	4
*Floodable Length Curve	5
Trim and Stability Book - S.S. AMERICAN MARINER	White Pages
Table of Principal Characteristics	Sheet 1
Trim Correction Table	Sheet 2
Hydrostatic Properties	Sheet 3
Free Surface Correction and Tank Cap.	Sheet 4
Gain in GM Table	Sheet 5
Required GM Curve	Sheet 6
*Loading Table	Sheet 7
*Loading Summary	Sheet 7A
Double Bottom Tankage	Sheet 8
Loading, Trim, and Stability Book - S.S. NORTHLAND	Salmon Pages
Table of Contents	Sheet i
Notes to Master	Sheet 1
Instructions - Trim and Stability	Sheet 2
Instructions - Hog and Sag	Sheet 3
Tank Capy. and CG	Sheet 4
Vertical Moments of Free Surface	Sheet 5
Trim Correction Table	Sheet 6
Curves of Form	Sheet 7
*Loading Summary	Sheet 81A
*Detail of Deadweight	Sheet 81B-C-D
*Longitudinal Bending Stresses	Sheet 81E

Blue Pages

\*Working copies of these pages are available to the candidate.



DEADWEIGHT SCALE				
MTI	DEAD WEIGHT	DRAFT	DIS-PLACEMENT S.W.	TPI
1250	10678		15199	
1225	10500	28	15000	51.0
1200	10000	27	14500	50.5
1175	9500	26	14000	50.0
1150	9000	25	13500	49.5
1125	8500	24	13000	49.0
1100	8000	23	12500	48.5
1075	7500	22	12000	48.0
1050	7000	21	11500	47.5
1025	6500	20	11000	47.0
1000	6000	19	10500	46.5
975	5500	18	10000	46.0
950	5000	17	9500	45.5
925	4500	16	9000	45.0
900	4000	15	8500	44.5
875	3500	14	8000	44.0
850	3000	13	7500	43.5
825	2500	12	7000	
803	2000	11	6500	
	1500	10	6000	
	1000	9	5500	
	500		5000	
	0		4500	

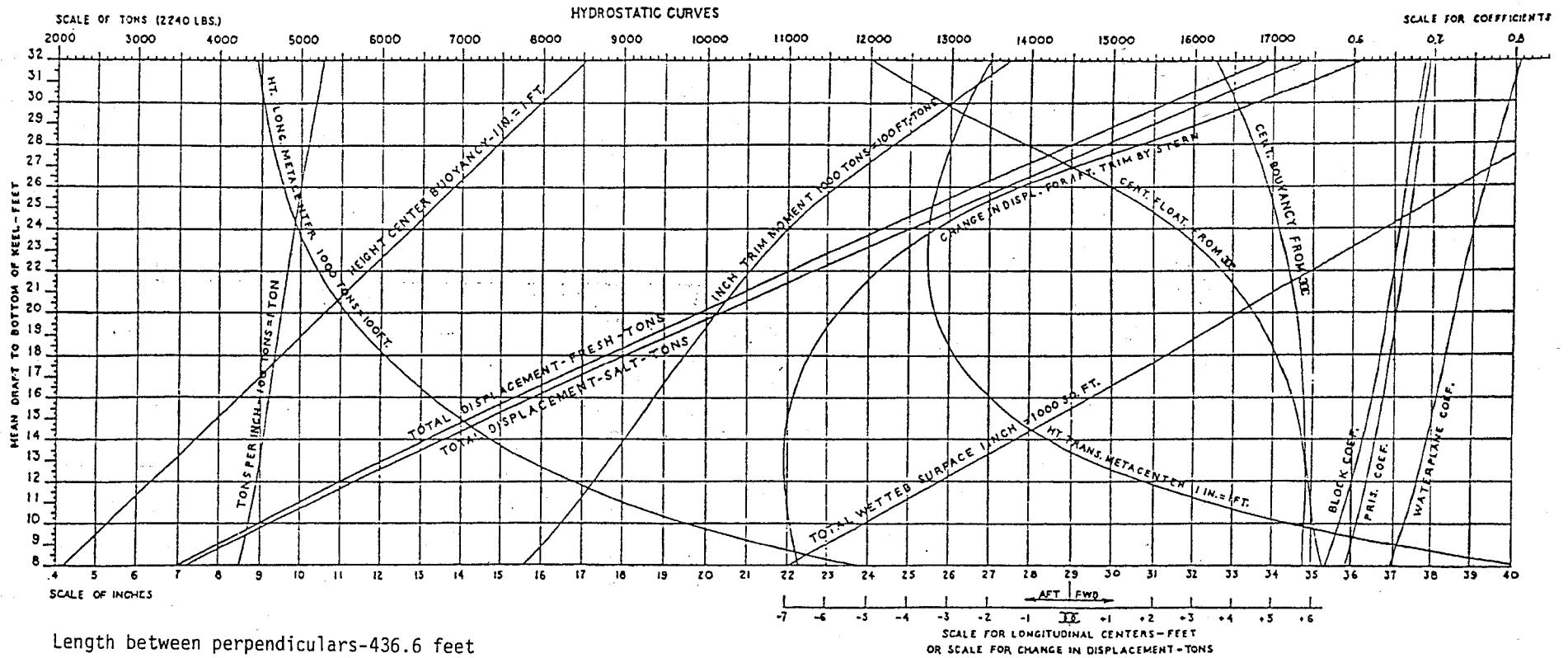
FREEBOARD DRAFT 28-06 3/4

LIGHT DRAFT 9-10  
DISPLACEMENT 4521

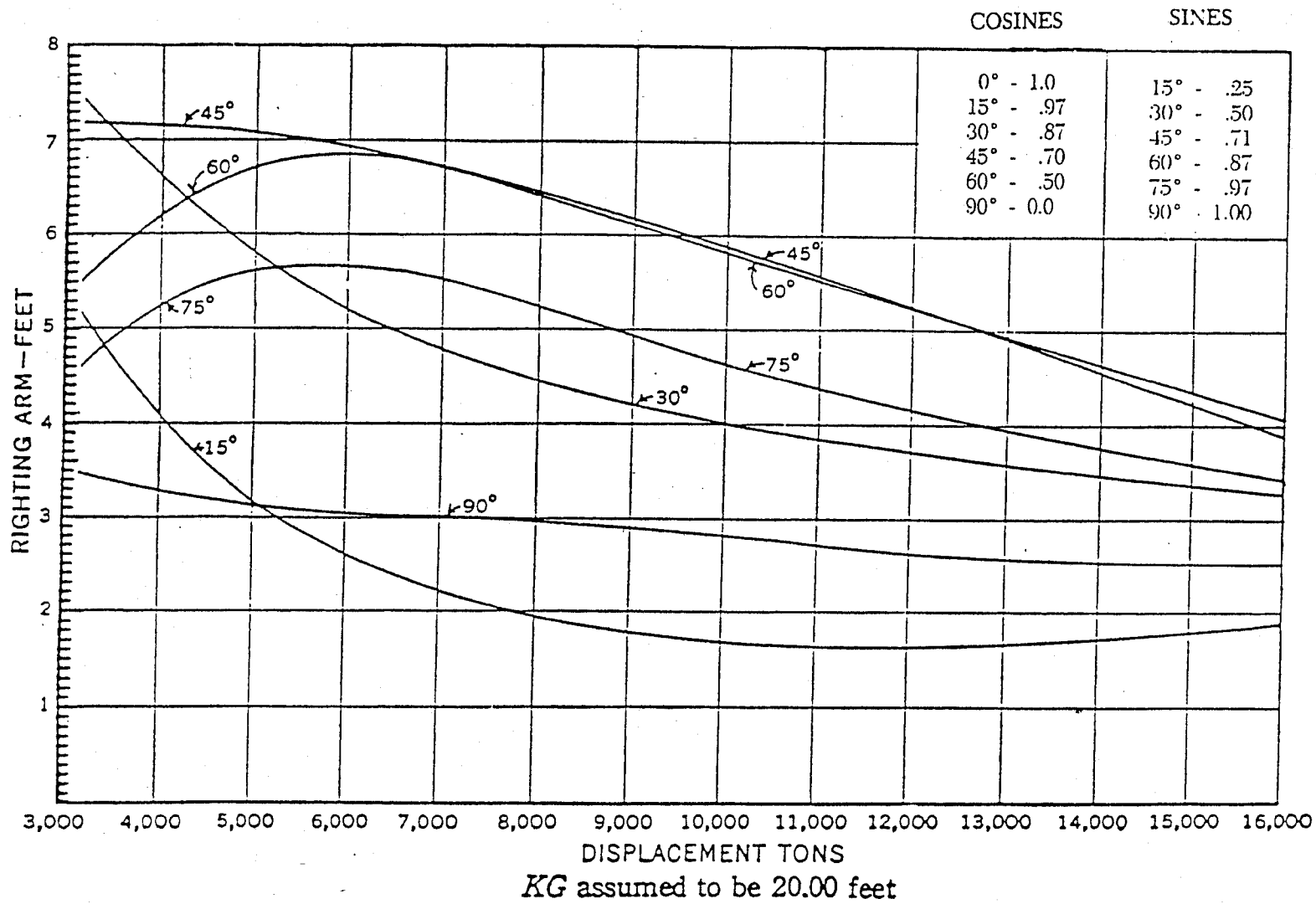
Waterplane coef.	<i>k</i>
.70	.042
.75	.048
.80	.055
.85	.062

Block coef.	<i>k</i>
.65	28
.75	30
.85	32

# Blue Pages



Blue Pages



Blue Pages

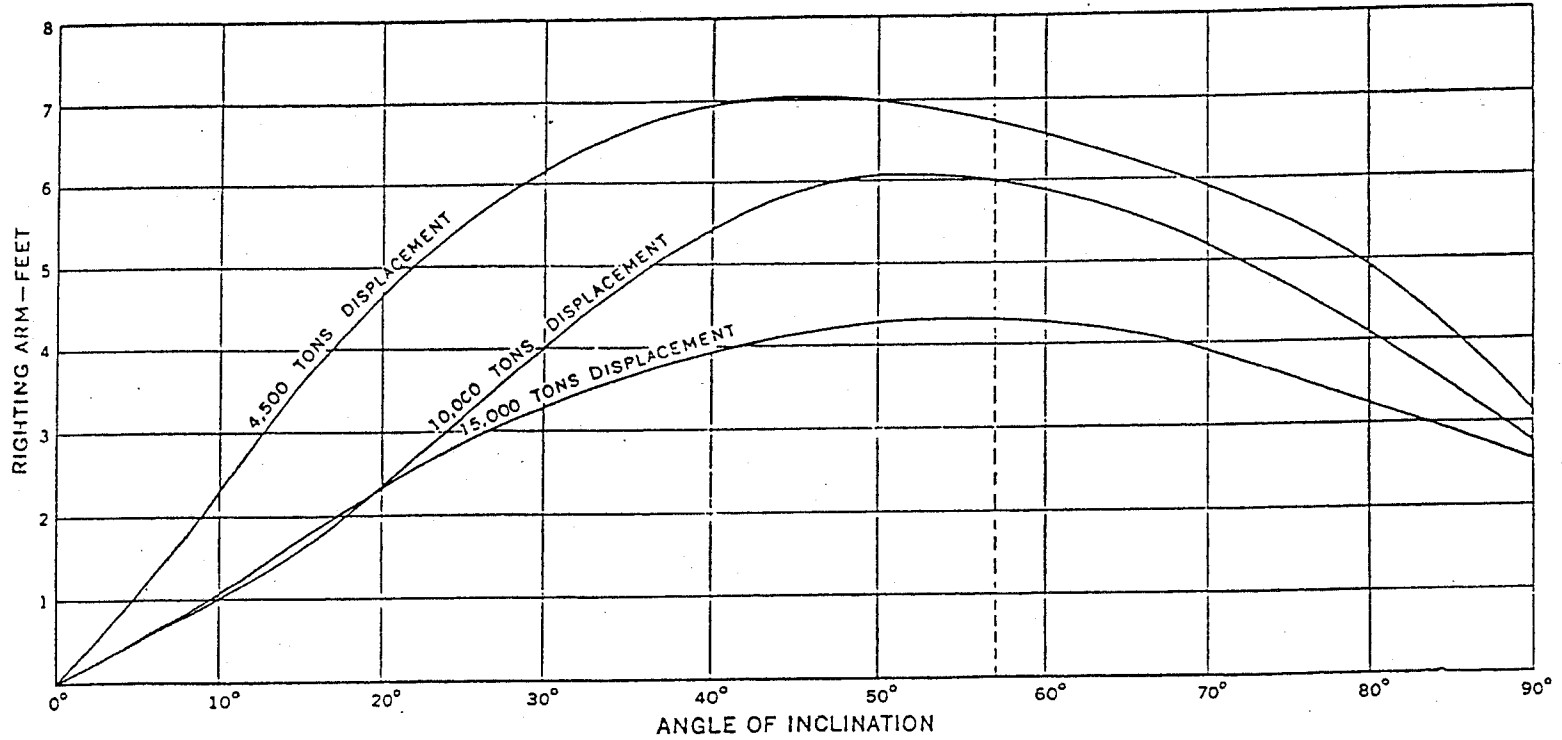


TABLE OF SINES

10°	.17
15°	.25
30°	.50
45°	.71
60°	.87
75°	.97
90°	1.00

*KG* assumed to be 20.00 feet

Statical stability curves

TABLE OF COSINES

0°	1.0
15°	.97
30°	.87
45°	.70
60°	.50
90°	0.0

Blue Pages

