

B K	NUM	ILLUST	TABLE TEXT
2	443	BL-0001	LONGITUDINAL BENDING STRESSES (PSI) ----- DESCRIPTION 1. FORE PEAK 0 2. DEEP TANK P/S 0 3. FWD STORES 6 4. FWD BUNKERS 1600 5. FWD COFFERDAM 0 6. #1 CARGO TANK 5229 7. #2 CARGO TANK 5193 8. #3 CARGO TANK 4229 9. #4 CARGO TANK 5116 10. BRIDGE CREW 3 11. BRIDGE STORES 12 12. BRIDGE F.W. 15 13. #5 CARGO TANK 2956 14. #6 BALLAST TANK 1628 15. #7 CARGO/BALLAST TANK 0 16. #8 CARGO/BALLAST TANK 0 17. #9 CARGO/BALLAST TANK 6012

2	992	BL-0002	LONGITUDINAL BENDING STRESSES (PSI)

			DESCRIPTION
			1. FORE PEAK 0
			2. DEEP TANK P/S 0
			3. FWD STORES 6
			4. FWD BUNKERS 1600
			5. FWD COFFERDAM 0
			6. #1 CARGO TANK 5229
			7. #2 CARGO TANK 5193
			8. #3 CARGO TANK 4229
			9. #4 CARGO TANK 5116
			10. BRIDGE CREW 3
			11. BRIDGE STORES 12
			12. BRIDGE F.W. 15
			13. #5 CARGO TANK 2956
			14. #6 BALLAST TANK 1628
15. #7 CARGO/BALLAST TANK 0			
16. #8 CARGO/BALLAST TANK 0			
17. #9 CARGO/BALLAST TANK 6012			

2	1015	BL-0003	LONGITUDINAL BENDING STRESSES (PSI)

			DESCRIPTION
			1. FORE PEAK 0
			2. DEEP TANK P/S 0
			3. FWD STORES 6
			4. FWD BUNKERS 1600
			5. FWD COFFERDAM 0
			6. #1 CARGO TANK 5229
			7. #2 CARGO TANK 5193
			8. #3 CARGO TANK 4229
			9. #4 CARGO TANK 5116
			10. BRIDGE CREW 3
			11. BRIDGE STORES 12
			12. BRIDGE F.W. 15
			13. #5 CARGO TANK 3956
			14. #6 BALLAST TANK 1628
			15. #7 CARGO/BALLAST TANK 5929
16. #8 CARGO/BALLAST TANK 6012			
17. #9 CARGO/BALLAST TANK 0			

2	1502	BL-0004	LONGITUDINAL BENDING STRESSES (PSI)	

			DESCRIPTION	
			1. FORE PEAK	0
			2. DEEP TANK P/S	0
			3. FWD STORES	6
			4. FWD BUNKERS	1600
			5. FWD COFFERDAM	0
			6. #1 CARGO TANK	5229
			7. #2 CARGO TANK	5193
			8. #3 CARGO TANK	4229
			9. #4 CARGO TANK	5116
			10. BRIDGE CREW	3
			11. BRIDGE STORES	12
			12. BRIDGE F.W.	15
			13. #5 CARGO TANK	3956
			14. #6 BALLAST TANK	1628
			15. #7 CARGO/BALLAST TANK	5929
16. #8 CARGO/BALLAST TANK	6012			
17. #9 CARGO/BALLAST TANK	0			

2	1897	BL-0009	LONGITUDINAL BENDING STRESSES (PSI)

			DESCRIPTION
			1. FORE PEAK 0
			2. DEEP TANK P/S 0
			3. FWD STORES 6
			4. FWD BUNKERS 1600
			5. FWD COFFERDAM 0
			6. #1 CARGO TANK 4659
			7. #2 CARGO TANK 5280
			8. #3 CARGO TANK 5489
			9. #4 CARGO TANK 0
			10. BRIDGE CREW 3
			11. BRIDGE STORES 12
			12. BRIDGE F.W. 10
			13. #5 CARGO TANK 5196
			14. #6 BALLAST TANK 2400
			15. #7 CARGO/BALLAST TANK 5319
16. #8 CARGO/BALLAST TANK 5400			
17. #9 CARGO/BALLAST TANK 6000			

2	2051	BL-0014	LONGITUDINAL BENDING STRESSES (PSI)

			DESCRIPTION
			1. FORE PEAK 0
			2. DEEP TANK P/S 0
			3. FWD STORES 6
			4. FWD BUNKERS 1600
			5. FWD COFFERDAM 0
			6. #1 CARGO TANK 4659
			7. #2 CARGO TANK 5280
			8. #3 CARGO TANK 5498
			9. #4 CARGO TANK 0
			10. BRIDGE CREW 3
			11. BRIDGE STORES 12
			12. BRIDGE F.W. 10
			13. #5 CARGO TANK 5196
			14. #6 BALLAST TANK 2400
			15. #7 CARGO/BALLAST TANK 5319
16. #8 CARGO/BALLAST TANK 5400			
17. #9 CARGO/BALLAST TANK 6000			

2	2176	BL-0023	LONGITUDINAL BENDING STRESSES (PSI)	

			DESCRIPTION	
			1. FORE PEAK	749
			2. DEEP TANK P/S	1747
			3. FWD STORES	6
			4. FWD BUNKERS	2867
			5. FWD COFFERDAM	338
			6. #1 CARGO TANK	0
			7. #2 CARGO TANK	0
			8. #3 CARGO TANK	0
			9. #4 CARGO TANK	0
			10. BRIDGE CREW	3
			11. BRIDGE STORES	10
			12. BRIDGE F.W.	10
			13. #5 CARGO TANK	0
			14. #6 BALLAST TANK	2595
			15. #7 CARGO/BALLAST TANK	3315
16. #8 CARGO/BALLAST TANK	2595			
17. #9 CARGO/BALLAST TANK	2595			

2	2560	BL-0024	LONGITUDINAL BENDING STRESSES (PSI)	

			DESCRIPTION	
			1. FORE PEAK	0
			2. DEEP TANK P/S	0
			3. FWD STORES	6
			4. FWD BUNKERS	1600
			5. FWD COFFERDAM	0
			6. #1 CARGO TANK	4759
			7. #2 CARGO TANK	5288
			8. #3 CARGO TANK	5463
			9. #4 CARGO TANK	0
			10. BRIDGE CREW	3
			11. BRIDGE STORES	10
			12. BRIDGE F.W.	10
			13. #5 CARGO TANK	5486
			14. #6 BALLAST TANK	2408
			15. #7 CARGO/BALLAST TANK	5446
16. #8 CARGO/BALLAST TANK	2410			
17. #9 CARGO/BALLAST TANK	5454			

2	2734	BL-0025	LONGITUDINAL BENDING STRESSES (PSI)	

			DESCRIPTION	
			1. FORE PEAK	0
			2. DEEP TANK P/S	0
			3. FWD STORES	6
			4. FWD BUNKERS	2867
			5. FWD COFFERDAM	0
			6. #1 CARGO TANK	3596
			7. #2 CARGO TANK	3996
			8. #3 CARGO TANK	4128
			9. #4 CARGO TANK	4146
			10. BRIDGE CREW	0
			11. BRIDGE STORES	0
			12. BRIDGE F.W.	0
			13. #5 CARGO TANK	0
			14. #6 BALLAST TANK	0
15. #7 CARGO/BALLAST TANK	1821			
16. #8 CARGO/BALLAST TANK	2328			
17. #9 CARGO/BALLAST TANK	2303			

2	3208	BL-0026	LONGITUDINAL BENDING STRESSES (PSI)	

			DESCRIPTION	
			1. FORE PEAK	0
			2. DEEP TANK P/S	0
			3. FWD STORES	6
			4. FWD BUNKERS	1600
			5. FWD COFFERDAM	0
			6. #1 CARGO TANK	4759
			7. #2 CARGO TANK	5288
			8. #3 CARGO TANK	5463
			9. #4 CARGO TANK	0
			10. BRIDGE CREW	3
			11. BRIDGE STORES	10
			12. BRIDGE F.W.	10
			13. #5 CARGO TANK	5486
			14. #6 BALLAST TANK	2408
			15. #7 CARGO/BALLAST TANK	5446
16. #8 CARGO/BALLAST TANK	2410			
17. #9 CARGO/BALLAST TANK	5454			

2	3776	BL-0027	LONGITUDINAL BENDING STRESSES (PSI)

			DESCRIPTION
			1. FORE PEAK 749
			2. DEEP TANK P/S 1747
			3. FWD STORES 6
			4. FWD BUNKERS 2867
			5. FWD COFFERDAM 338
			6. #1 CARGO TANK 0
			7. #2 CARGO TANK 0
			8. #3 CARGO TANK 0
			9. #4 CARGO TANK 0
			10. BRIDGE CREW 3
			11. BRIDGE STORES 10
			12. BRIDGE F.W. 10
			13. #5 CARGO TANK 0
			14. #6 BALLAST TANK 2595
			15. #7 CARGO/BALLAST TANK 3315
16. #8 CARGO/BALLAST TANK 2595			
17. #9 CARGO/BALLAST TANK 2595			

2	4056	BL-0028	<p style="text-align: center;">LONGITUDINAL BENDING STRESSES (PSI)</p> <p style="text-align: center;">-----</p> <p style="text-align: center;">DESCRIPTION</p> <p>1. FORE PEAK 0</p> <p>2. DEEP TANK P/S 0</p> <p>3. FWD STORES 6</p> <p>4. FWD BUNKERS 2867</p> <p>5. FWD COFFERDAM 0</p> <p>6. #1 CARGO TANK 3596</p> <p>7. #2 CARGO TANK 3996</p> <p>8. #3 CARGO TANK 4128</p> <p>9. #4 CARGO TANK 4146</p> <p>10. BRIDGE CREW 0</p> <p>11. BRIDGE STORES 0</p> <p>12. BRIDGE F.W. 0</p> <p>13. #5 CARGO TANK 0</p> <p>14. #6 BALLAST TANK 0</p> <p>15. #7 CARGO/BALLAST TANK 1821</p> <p>16. #8 CARGO/BALLAST TANK 2328</p> <p>17. #9 CARGO/BALLAST TANK 2303</p>
4	64	ST-0001	<p>Deck cargo 170 Tons</p> <p>Upper tween deck layer 1800 Tons</p> <p>Lower tween deck layer 2000 Tons</p> <p>Hold layer 3200 Tons</p>

4	151	ST-0002	<ul style="list-style-type: none"> I. 50 drums of cement. Each drum weighs 600 pounds and is stowed on end. Each drum measures 28 inches in diameter and is 32 inches high. II. Two reels of 1 inch diameter wire rope. Each reel contains 3000 linear feet of wire weighing 1.55 pounds per linear foot. The tare weight of each reel is 450 pounds. The reels are stowed on the flat and are 36 inches high. III. Twelve pallets of general supplies. Each pallet measures 8'L X 4'W X 3'H. The pallets are stowed singly and weigh 580 pounds each. IV. Twelve crates of machine parts and pipe fittings. Each weighs 880 pounds. Each crate measures 8'L X 3'W X 4'H and is stowed singly.
4	161	ST-0003	<ul style="list-style-type: none"> I. Drill casing - 16 inches in diameter by 30 feet long. Twenty lengths each weighing 1.72 long tons and stowed in a single tier on deck. II. Six pallets of oak planking - stowed two pallets high. Each pallet weighs 2.2 long tons. Each pallet is 3.0 feet high. III. Crated piping and machine parts - 8 crates each 8'L X 4'W X 3'H. Each crate is stowed singly and weighs 660 pounds. IV. Drill pipe - 6 inches in diameter by 30 feet long. 120 lengths, each weighing 0.644 long ton. The center of gravity of the pipes is 1.11 feet above the main deck.

4	199	ST-0004	<p>I. Drill casing - 50 lengths stowed in a block 8 feet high. Each pipe weighs 326 lbs.</p> <p>II. Crated valves - 10 crates stowed 2 high. Each crate is 36" L X 30" W X 15" H and weighs 1020 lbs.</p> <p>III. Dry stores - 14 containers stowed 2 high. Each container weighs 2 long tons and measures 6'L X 6"W X 6'H.</p> <p>IV. Anchors - 4. Each one on deck. The center of gravity of each anchor is 9" from the deck and each weighs 6120 lbs.</p>																					
4	372	ST-0005	<p>Deck cargo 200 Tons</p> <p>Upper tween deck layer 2800 Tons</p> <p>Lower tween deck layer 1000 Tons</p> <p>Hold layer 4300 Tons</p>																					
4	419	ST-0006	<table border="0"> <thead> <tr> <th>Item</th> <th>Tons</th> <th>LCG-FP</th> </tr> </thead> <tbody> <tr> <td>----</td> <td>----</td> <td>-----</td> </tr> <tr> <td>F.O. & SALT WATER</td> <td>1805</td> <td>269.0</td> </tr> <tr> <td>FRESH WATER</td> <td>230</td> <td>303.6</td> </tr> <tr> <td>DRY CARGO</td> <td>7190</td> <td>267.5</td> </tr> <tr> <td>REEFER CARGO</td> <td>195</td> <td>354.0</td> </tr> <tr> <td>DECK CARGO</td> <td>155</td> <td>60.2</td> </tr> </tbody> </table>	Item	Tons	LCG-FP	----	----	-----	F.O. & SALT WATER	1805	269.0	FRESH WATER	230	303.6	DRY CARGO	7190	267.5	REEFER CARGO	195	354.0	DECK CARGO	155	60.2
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DECK CARGO	155	60.2																						
4	431	ST-0007	<p>Load 200 tons---180 feet fwd of amidships</p> <p>Discharge 60 tons--- 25 feet fwd of amidships</p> <p>Discharge 80 tons---165 feet aft of amidships</p> <p>Discharge 40 tons---230 feet aft of amidships</p>																					

4	483	ST-0008	No. 1 Second Deck 140 No. 2 Second Deck 80 No. 2 Third Deck 180 No. 2 Tank Top 360 No. 3 Tank Top 380 No. 4 Second Deck 240 No. 4 Third Deck 280 No. 4 Tank Top 470 No. 5 Upper Level Flat 80 No. 5 Third Deck 260 No. 5 Tank Top 410 No. 6 Second Deck 360
4	486	ST-0009	Load 200 tons---180 feet fwd of amidships Discharge 60 tons--- 25 feet fwd of amidships Load 80 tons---165 feet aft of amidships Load 40 tons---200 feet aft of amidships
4	501	ST-0010	Deck cargo 200 Tons Upper tween deck layer 2800 Tons Lower tween deck layer 3000 Tons Hold layer 2300 Tons
4	511	ST-0011	Deck cargo 170 Tons Upper tween deck layer 2800 Tons Lower tween deck layer 2000 Tons Hold layer 3200 Tons
4	512	ST-0012	Load 225 tons--110 ft fwd of amidships Discharge 120 tons-- 37 ft fwd of amidships Load 125 tons-- 30 ft aft of amidships Load 75 tons--200 ft aft of amidships

4	584	ST-0013	Discharge 120 tons---145 feet fwd of amidships Load 160 tons--- 87 feet fwd of amidships Discharge 85 tons--- 50 feet fwd of amidships Discharge 100 tons--- 30 feet aft of amidships																					
4	591	ST-0014	Stores 50 Tons Lube oil 13 Tons Cargo 2105 Tons Fuel oil 1035 Tons Fresh water 150 Tons Ballast 100 Tons																					
4	641	ST-0015	I. Two reels of hoisting wire. Each reel is 8 feet in circumference and 4 feet wide and has 3000 feet of wire. Both reels are stowed on the flat. Wire weighs 1.55 pounds per linear foot. The tare weight of each reel is 500 pounds. II. Eight pallets of case goods stowed singly. Each pallet is 8'L X 4'W X 4'H and weighs 1 long ton. III. 12 steel containers of cement. Each container weighs 1 1/2 tons. Each container is 8'L X 4'W X 4'H. The containers are stowed singly fore and aft. IV. 10 crates of stewards stores. Each crate measures 4'L X 4'W 3'H and weighs 420 pounds. Each crate is stowed on deck.																					
4	722	ST-0016	<table> <thead> <tr> <th>ITEM</th> <th>TONS</th> <th>LCG-FP</th> </tr> </thead> <tbody> <tr> <td>----</td> <td>----</td> <td>-----</td> </tr> <tr> <td>F.O. & SALT WATER</td> <td>2824</td> <td>262.8</td> </tr> <tr> <td>FRESH WATER</td> <td>140</td> <td>308.0</td> </tr> <tr> <td>DRY CARGO</td> <td>6290</td> <td>268.5</td> </tr> <tr> <td>REEFER CARGO</td> <td>170</td> <td>354.0</td> </tr> <tr> <td>DECK CARGO</td> <td>151</td> <td>58.4</td> </tr> </tbody> </table>	ITEM	TONS	LCG-FP	----	----	-----	F.O. & SALT WATER	2824	262.8	FRESH WATER	140	308.0	DRY CARGO	6290	268.5	REEFER CARGO	170	354.0	DECK CARGO	151	58.4
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DECK CARGO	155	353.0																						
4	911	ST-0018	<p>I. Twenty drums of lube oil stowed on end. Each drum weighs 436 pounds. Diameter of drums is 24 inches and their height is 30 inches overall.</p> <p>II. General supplies - 26 boxes stowed 2 high. Each box weighs 360 pounds and measures 6'L X 3'W X 2'H.</p> <p>III. One electric generator weighing 2684 lbs. Stowed so the center of gravity is 3.2 feet above the main deck.</p> <p>IV. Casing pipe - 29 each. Each pipe weighs 1.7 long tons. The pipe is stacked 3 high across the main deck. The center of gravity of the 10 casings in the 3rd tier is 3.75 feet; the 9 casings in the second tier is 2.3 feet; the 10 casings in the lower tier is 0.833 foot.</p>																					
4	941	ST-0019	<p>I. 2 Danforth mooring anchors. Each anchor weighs 15,750 pounds. The center of gravity is 15 inches above the main deck.</p> <p>II. 90 fathoms of 3-inch diameter wire rope. The weight per linear foot is 18.7 pounds. The center of gravity of the wire is 22 inches above the main deck.</p> <p>III. 10 cases of machine parts. Each case measures 6'L X 6'W X 4'H. The total weight of all of the cases is 6000 lbs. Each case is stowed on deck.</p> <p>IV. 8 crates of galley stores. Each crate measures 4'L X 3'W X 2.5'H and weighs 380 pounds. Each crate is stowed on deck.</p>																					

4	959	ST-0020	<p>I. Two reels of hoisting wire. Each reel is 8 feet in circumference and 4 feet wide. Both reels are stowed on the flat and each has 3000 feet of wire. Wire weighs 1.55 pounds per linear foot. Tare weight of each reel is 500 pounds.</p> <p>II. Eight pallets of case goods stowed singly. Each pallet is 8'L X 4'W X 4'H and weighs 1 long ton.</p> <p>III. 12 steel containers of cement. Each container weighs 1 1/2 long tons. Each container is 8'L X 4'W 4'H. The containers are stowed singly fore and aft.</p> <p>IV. 10 crates of stewards stores. Each crate measures 4'L X 4'W X 3'H and weighs 420 pounds. Each crate is stowed on deck.</p>
4	1009	ST-0021	<p>Stores 50 Tons Lube oil 13 Tons Cargo 8400 Tons Fuel oil 3015 Tons Fresh water 200 Tons Ballast 450 Tons</p>
4	1041	ST-0022	<p>No. 1 Main Deck 60 No. 2 Second Deck 90 No. 2 Tank Top 120 No. 3 Second Deck 90 No. 3 Third Deck 250 No. 3 Tank Top 400 No. 4 Second Deck 110 No. 5 Second deck 50 No. 5 Tank Top 480 No. 5 Upper Reefer 90 No. 6 Second Deck 120 No. 7 Third Deck 250</p>

4	1049	ST-0023	Stores 50 Tons Lube oil 13 Tons Cargo 1853 Tons Fuel oil 1324 Tons Fresh water 130 Tons Ballast 370 Tons
4	1060	ST-0024	ITEM TONS LCG-FP ---- ---- F.O. & SALT WATER 3215 263.2 FRESH WATER 185 312.0 DRY CARGO 7880 263.5 REEFER CARGO 170 350.8 DECK CARGO 155 223.0
4	1090	ST-0025	Stores 50 Tons Lube oil 13 Tons Cargo 8040 Tons Fuel oil 3115 Tons Fresh water 200 Tons
4	1091	ST-0026	Stores 50 Tons Lube oil 13 Tons Cargo 3390 Tons Fuel oil 2580 Tons Fresh water 175 Tons Ballast 345 Tons

4	1141	ST-0027	<p>I. Motor generator - one unit weighing 4850 pounds. The center of gravity is 32 inches above the main deck.</p> <p>II. 50 drums of cement - each drum weighs 400 pounds and is stowed on end. Each drum is 28 inches in diameter and 32 inches high.</p> <p>III. Ten pallets of cased lube oil - each pallet measures 8'L X 4'W X 4'H. Each pallet is stowed on deck and weighs 2.7 long tons.</p> <p>IV. Drill collars - 10 lengths each 8" in diameter by 30 feet long. Stowed in a single layer on deck. Each length weighs 1.15 long tons.</p>
4	1159	ST-0028	<p>No. 1 Main Deck 100</p> <p>No. 1 Third Deck 60</p> <p>No. 2 Second Deck 90</p> <p>No. 3 Second Deck 120</p> <p>No. 3 Third Deck 30</p> <p>No. 3 Tank Top 230</p> <p>No. 4 Second Deck 120</p> <p>No. 5 Upper Level Flat 110</p> <p>No. 5 Third Deck 140</p> <p>No. 5 Upper Reefer 90</p> <p>No. 5 Third Deck Reefer 110</p> <p>No. 7 Second Deck 240</p>
4	1171	ST-0029	<p>Stores 50 Tons</p> <p>Lube oil 13 Tons</p> <p>Cargo 2345 Tons</p> <p>Fuel oil 1324 Tons</p> <p>Fresh water 170 Tons</p> <p>Ballast 400 Tons</p>

4	1177	ST-0030	<p>I. Intermediate drill casing - 10 lengths each 16 inches in diameter. Each length weighs 1.7 long tons. The center of gravity above the main deck of the casing stow is 1.8 feet.</p> <p>II. Crated machine parts and assorted pipe fittings - 6 crates stowed two high. Each crate is 4'L X 3.5'W X 3'H. Each crate weighs 840 lbs.</p> <p>III. 10 each - 55 gallon drums of lube oil stowed on end. Each drum weighs 462 pounds, is 26 inches in diameter and 32 inches high.</p> <p>IV. Dry stores - 12 containers stowed two high. Each container weighs 0.9 long ton and measures 6'L X 4'W X 3'H.</p>
4	1181	ST-0031	<p>No. 1 Second Deck 80 No. 2 Second Deck 100 No. 2 Third Deck 70 No. 2 Tank Top 340 No. 3 Third Deck 120 No. 3 Tank Top 260 No. 4 Second Deck 70 No. 4 Tank Top 220 No. 5 Second Deck 120 No. 5 Tank Top 380 No. 6 Third Deck 260 No. 7 Second Deck 340</p>
4	1189	ST-0032	<p>Stores 50 Tons Lube oil 13 Tons Cargo 2860 Tons Fuel oil 1324 Tons Fresh water 170 Tons Ballast 400 Tons</p>

4	1291	ST-0033	Stores 50 Tons Lube oil 13 Tons Cargo 5390 Tons Fuel oil 2890 Tons Fresh water 275 Tons Ballast 945 Tons
4	1293	ST-0034	Stores 50 Tons Lube oil 13 Tons Cargo 3035 Tons Fuel oil 1775 Tons Fresh water 270 Tons Ballast 440 Tons
4	1313	ST-0035	No. 1 Main Deck 80 No. 2 Third Deck 220 No. 2 Tank Top 315 No. 3 Second Deck 305 No. 3 Third Deck 220 No. 3 Tank Top 480 No. 4 Second Deck 150 No. 4 Third Deck 260 No. 5 Upper Level Flat 120 No. 5 Tank Top 360 No. 6 Second Deck 320 No. 7 Second Deck 440

4	1350	ST-0036	<p>I. 50 drums of cement - each drum weighs 400 pounds and is stowed on end. Each drum is 28 inches in diameter and 32 inches high.</p> <p>II. Crated piping and valves - 8 crates stowed 2 high. Each crate measures 8'L X 4'W X 2.5'H and weighs 640 pounds.</p> <p>III. Stewards stores - 12 containers measuring 6'H X 6'W X 6'L. Each container weighs 960 pounds. The center of gravity of each container is 30 inches above the main deck.</p> <p>IV. 20 lengths of drill casing - 16 inches in diameter by 30 feet long. Each length weighs 1.72 long tons and is stowed in a single tier on deck.</p>
4	1409	ST-0037	<p>Stores 50 Tons</p> <p>Lube oil 13 Tons</p> <p>Cargo 3450 Tons</p> <p>Fuel oil 1970 Tons</p> <p>Fresh water 220 Tons</p> <p>Ballast 440 Tons</p>
4	1430	ST-0038	<p>No. 1 Third Deck 80</p> <p>No. 2 Second Deck 140</p> <p>No. 2 Tank Top 360</p> <p>No. 3 Second Deck 40</p> <p>No. 3 Third Deck 220</p> <p>No. 3 Tank Top 490</p> <p>No. 4 Second Deck 80</p> <p>No. 5 Upper Level Flat 110</p> <p>No. 5 Third Deck 140</p> <p>No. 5 Tank Top 550</p> <p>No. 5 Upper Reefer 85</p> <p>No. 6 Third Deck 260</p>

4	1480	ST-0039	<p>I. 116 lengths of drill pipe. Each pipe weighs 0.644 long ton. The center of gravity is 1.11 feet above the main deck.</p> <p>II. 10 containers 8'L X 4'W X 3'H containing assorted pipe fittings and machine parts. Each container weighs 1-1/4 long tons, and the center of gravity of each box is 1.35 feet above the main deck.</p> <p>III. Two 90-fathom lengths of 3-inch diameter wire rope coiled on the main deck. Each foot of wire rope weighs 18.7 pounds. The center of gravity of the coil is 27 inches above the main deck.</p> <p>IV. 6 pallets of oak planking. Each pallet weighs 2-1/2 long tons with a center of gravity of 2.2 feet above the main deck.</p>																																	
4	1500	ST-0040	<table border="0"> <thead> <tr> <th>ITEM</th> <th>TONS</th> <th>KG</th> </tr> </thead> <tbody> <tr> <td>----</td> <td>----</td> <td>--</td> </tr> <tr> <td>CREW and STORES</td> <td>50</td> <td>43.7</td> </tr> <tr> <td>LUBE OIL</td> <td>13</td> <td>25.8</td> </tr> <tr> <td>F.O. & SALT WATER</td> <td>2824</td> <td>7.5</td> </tr> <tr> <td>FRESH WATER</td> <td>160</td> <td>21.0</td> </tr> <tr> <td>DRY CARGO</td> <td>7190</td> <td>27.0</td> </tr> <tr> <td>REEFER CARGO</td> <td>170</td> <td>29.2</td> </tr> <tr> <td>DECK CARGO</td> <td>155</td> <td>55.0</td> </tr> <tr> <td colspan="2">TOTAL FREE SURFACE MOMENTS</td> <td>15138</td> </tr> <tr> <td colspan="3">FOR ALL LIQUIDS ON BOARD</td> </tr> </tbody> </table>	ITEM	TONS	KG	----	----	--	CREW and STORES	50	43.7	LUBE OIL	13	25.8	F.O. & SALT WATER	2824	7.5	FRESH WATER	160	21.0	DRY CARGO	7190	27.0	REEFER CARGO	170	29.2	DECK CARGO	155	55.0	TOTAL FREE SURFACE MOMENTS		15138	FOR ALL LIQUIDS ON BOARD		
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4	1568	ST-0042	No. 1 Second Deck 80 No. 2 Second Deck 140 No. 2 Third Deck 240 No. 2 Tank Top 460 No. 4 Second Deck 180 No. 4 Third Deck 160 No. 4 Tank Top 70 No. 5 Second Deck 320 No. 5 Third Deck (Reefer) 180 No. 6 Second Deck 220 No. 6 Third Deck 360 No. 7 Second Deck 90 No. 7 Third Deck 50
4	1589	ST-0043	No. 1 Second Deck 140 No. 2 Second Deck 80 No. 2 Third Deck 260 No. 3 Second Deck 180 No. 3 Third Deck 320 No. 3 Tank Top 480 No. 4 Second Deck 90 No. 4 Tank Top 90 No. 5 Second Deck 260 No. 5 Third Deck 380 No. 5 Tank Top 580 No. 6 Third Deck 360
4	1666	ST-0045	Stores 50 Tons Lube oil 13 Tons Cargo 5880 Tons Fuel oil 2210 Tons Fresh water 200 Tons Ballast 600 Tons

4	1866	ST-0046	<table> <thead> <tr> <th>ITEM</th> <th>TONS</th> <th>KG</th> </tr> </thead> <tbody> <tr> <td>CREW and STORES</td> <td>50</td> <td>43.7</td> </tr> <tr> <td>LUBE OIL</td> <td>13</td> <td>25.8</td> </tr> <tr> <td>F.O. & SALT WATER</td> <td>3710</td> <td>7.5</td> </tr> <tr> <td>FRESH WATER</td> <td>115</td> <td>21.0</td> </tr> <tr> <td>DRY CARGO</td> <td>7815</td> <td>27.0</td> </tr> <tr> <td>REEFER CARGO</td> <td>175</td> <td>29.2</td> </tr> <tr> <td>DECK CARGO</td> <td>120</td> <td>55.0</td> </tr> <tr> <td colspan="2">TOTAL FREE SURFACE MOMENTS</td> <td>9640</td> </tr> <tr> <td colspan="3">FOR ALL LIQUIDS ON BOARD</td> </tr> </tbody> </table>	ITEM	TONS	KG	CREW and STORES	50	43.7	LUBE OIL	13	25.8	F.O. & SALT WATER	3710	7.5	FRESH WATER	115	21.0	DRY CARGO	7815	27.0	REEFER CARGO	175	29.2	DECK CARGO	120	55.0	TOTAL FREE SURFACE MOMENTS		9640	FOR ALL LIQUIDS ON BOARD		
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4	2135	ST-0051	Deck cargo 190 Tons Upper tween deck layer 1740 Tons Lower tween deck layer 1420 Tons Hold layer 2840 Tons																																	
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4	2368	ST-0061	<table border="0"> <thead> <tr> <th>Item</th> <th>Tons</th> <th>LCG-FP</th> </tr> </thead> <tbody> <tr> <td>----</td> <td>----</td> <td>-----</td> </tr> <tr> <td>F.O. & SALT WATER</td> <td>1805</td> <td>269.0</td> </tr> <tr> <td>FRESH WATER</td> <td>185</td> <td>312.0</td> </tr> <tr> <td>DRY CARGO</td> <td>6290</td> <td>268.5</td> </tr> <tr> <td>REEFER CARGO</td> <td>170</td> <td>354.5</td> </tr> <tr> <td>DECK CARGO</td> <td>155</td> <td>223.0</td> </tr> </tbody> </table>	Item	Tons	LCG-FP	----	----	-----	F.O. & SALT WATER	1805	269.0	FRESH WATER	185	312.0	DRY CARGO	6290	268.5	REEFER CARGO	170	354.5	DECK CARGO	155	223.0												
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4	2415	ST-0062	Deck cargo 320 Tons Upper tween deck layer 1320 Tons Lower tween deck layer 1010 Tons Hold layer 1670 Tons
4	2443	ST-0063	DB 1 CL 48.2 DB 6 CL 242.3 DB 1A CL 81.9 DB 7 P 94.6 DB 3 P 55.6 DB 7 S 94.6 DB 3 S 55.6 DT 3 P 86.1 DB 4 CL 224.1 DT 3 S 86.1 DB 4 P 128.1 DT 4 P/S 120.0 DB 4 S 128.1 DT 5 P/S 108.4 DB 5 CL 196.2
4	2464	ST-0064	DB 2 P 71.2 DB 5 P 178.0 DB 2 S 71.2 DB 5 S 180.0 DB 3 CL 220.0 DB 6 CL 242.3 DB 3 P 55.6 DB 6 P 87.0 DB 3 S 55.6 DB 6 S 87.0 DB 4 CL 224.1 DB 7 P 94.6 DB 4 P 128.1 DB 7 S 94.6 DB 4 S 128.1 DT 4 P/S 110.0 DB 5 CL 196.2 DT 5 P/S 108.4
4	2486	ST-0065	ITEM TONS KG ---- ---- -- CREW and STORES 50 43.7 LUBE OIL 13 25.8 F.O. & SALT WATER 3710 7.5 FRESH WATER 115 21.0 DRY CARGO 7815 27.0 REEFER CARGO 175 29.2 DECK CARGO 120 55.0 TOTAL FREE SURFACE MOMENTS 17706 FOR ALL LIQUIDS ON BOARD

4	2493	ST-0066	Deck cargo 280 Tons Upper tween deck layer 1320 Tons Lower tween deck layer 1260 Tons Hold layer 1420 Tons																																	
4	2518	ST-0067	DB 1 CL 48.2 DB 6 P 87.0 DB 1A CL 81.9 DB 6 S 87.0 DB 2 P 71.2 DB 7 P 94.6 DB 2 S 71.2 DB 7 S 94.6 DB 4 CL 224.1 DT 3 P 86.1 DB 4 P 128.1 DT 3 S 86.1 DB 4 S 128.1 DT 4 P/S 120.0 DB 5 CL 196.2																																	
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4	2693	ST-0076	Deck cargo 250 Tons Upper tween deck layer 1320 Tons Lower tween deck layer 310 Tons Hold layer 370 Tons																																	

4	2705	ST-0077	DB 1 CL 48.2 DB 4 S 128.1 DB 2 P 71.2 DB 5 CL 196.2 DB 2 S 71.2 DB 6 CL 242.3 DB 3 P 55.6 DB 7 P 94.6 DB 3 S 55.6 DB 7 S 94.6 DB 4 CL 224.1 DT 5 P/S 108.4 DB 4 P 128.1																																	
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4	2740	ST-0079	Load 170 tons--165 ft fwd of amidships Load 150 tons--120 ft fwd of amidships Load 160 tons--112 ft aft of amidships Load 155 tons--202 ft aft of amidships																																	

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4	2775	ST-0081	Load 120 tons---145 feet fwd of amidships Discharge 160 tons--- 38 feet fwd of amidships Load 85 tons--- 35 feet aft of amidships Discharge 170 tons---205 feet aft of amidships																																				
4	2820	ST-0082	<table> <thead> <tr> <th>Item</th> <th>Tons</th> <th>LCG-FP</th> </tr> <tr> <th>----</th> <th>----</th> <th>-----</th> </tr> </thead> <tbody> <tr> <td>F.O. & SALT WATER</td> <td>3865</td> <td>280.0</td> </tr> <tr> <td>FRESH WATER</td> <td>140</td> <td>308.0</td> </tr> <tr> <td>DRY CARGO</td> <td>6200</td> <td>254.0</td> </tr> <tr> <td>REEFER CARGO</td> <td>265</td> <td>351.0</td> </tr> <tr> <td>DECK CARGO</td> <td>151</td> <td>58.4</td> </tr> </tbody> </table>	Item	Tons	LCG-FP	----	----	-----	F.O. & SALT WATER	3865	280.0	FRESH WATER	140	308.0	DRY CARGO	6200	254.0	REEFER CARGO	265	351.0	DECK CARGO	151	58.4															
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4	2845	ST-0084	<table border="0"> <thead> <tr> <th>Item</th> <th>Tons</th> <th>LCG-FP</th> </tr> <tr> <th>----</th> <th>----</th> <th>-----</th> </tr> </thead> <tbody> <tr> <td>F.O. & SALT WATER</td> <td>2120</td> <td>298.0</td> </tr> <tr> <td>FRESH WATER</td> <td>250</td> <td>297.0</td> </tr> <tr> <td>DRY CARGO</td> <td>9111</td> <td>264.7</td> </tr> <tr> <td>REEFER CARGO</td> <td>210</td> <td>350.0</td> </tr> <tr> <td>DECK CARGO</td> <td>95</td> <td>60.0</td> </tr> </tbody> </table>	Item	Tons	LCG-FP	----	----	-----	F.O. & SALT WATER	2120	298.0	FRESH WATER	250	297.0	DRY CARGO	9111	264.7	REEFER CARGO	210	350.0	DECK CARGO	95	60.0																											
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4	2885		<p>Discharge 280 tons---155 feet fwd of amidships Discharge 350 tons--- 38 feet fwd of amidships Load 60 tons--- 35 feet aft of amidships Discharge 120 tons---205 feet aft of amidships</p>																																																

4	2912	ST-0086	DB 1 CL 48.2 DB 6 CL 242.3 DB 1A CL 81.9 DB 7 P 94.6 DB 2 P 71.2 DB 7 S 94.6 DB 2 S 71.2 DT 1 CL 125.3 DB 3 CL 227.6 DT 1A CL 257.6 DB 3 P 55.6 DT 2 P 80.0 DB 3 S 55.6 DT 2 S 80.0 DB 4 CL 224.1 DT 6 P 201.2 DB 4 P 128.1 DT 6 S 201.2 DB 4 S 128.1 DT 7 P 128.8 DT 7 S 128.8																																	
4	2913	ST-0087	Load 170 tons--120 ft fwd of amidships Discharge 100 tons--28 ft fwd of amidships Discharge 70 tons--122 ft aft of amidships Load 200 tons--163 ft aft of amidships																																	
4	2923	ST-0088	<table border="0"> <thead> <tr> <th>ITEM</th> <th>TONS</th> <th>KG</th> </tr> </thead> <tbody> <tr> <td>----</td> <td>----</td> <td>--</td> </tr> <tr> <td>CREW and STORES</td> <td></td> <td>50 43.7</td> </tr> <tr> <td>LUBE OIL</td> <td>13</td> <td>25.8</td> </tr> <tr> <td>F.O. & SALT WATER</td> <td>2608</td> <td>8.5</td> </tr> <tr> <td>FRESH WATER</td> <td>80</td> <td>20.0</td> </tr> <tr> <td>DRY CARGO</td> <td>5469</td> <td>25.5</td> </tr> <tr> <td>REEFER CARGO</td> <td>225</td> <td>28.2</td> </tr> <tr> <td>DECK CARGO</td> <td>113</td> <td>55.0</td> </tr> <tr> <td colspan="2">TOTAL FREE SURFACE MOMENTS</td> <td>17531</td> </tr> <tr> <td colspan="3">FOR ALL LIQUIDS ON BOARD</td> </tr> </tbody> </table>	ITEM	TONS	KG	----	----	--	CREW and STORES		50 43.7	LUBE OIL	13	25.8	F.O. & SALT WATER	2608	8.5	FRESH WATER	80	20.0	DRY CARGO	5469	25.5	REEFER CARGO	225	28.2	DECK CARGO	113	55.0	TOTAL FREE SURFACE MOMENTS		17531	FOR ALL LIQUIDS ON BOARD		
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4	2956	ST-0089	Discharge 280 tons--200 ft fwd of amidships Load 150 tons--150 ft fwd of amidships Load 150 tons--100 ft fwd of amidships Discharge 90 tons--247 ft aft of amidships																																	

			Item Tons LCG-FP
4	2962	ST-0090	---- ---- ----- F.O. & SALT WATER 960 294.0 FRESH WATER 150 299.0 DRY CARGO 4880 265.0 REEFER CARGO 200 354.0 DECK CARGO 70 60.0
4	2982	ST-0091	DB 1 CL 48.2 DB 7 P 94.6 DB 1A CL 81.9 DB 7 S 94.6 DB 2 P 71.2 DT 1 CL 125.3 DB 2 S 71.2 DT 1A CL 257.6 DB 3 CL 227.6 DT 2 P 78.5 DB 3 P 55.6 DT 2 S 78.5 DB 3 S 55.6 DT 6 P 201.2 DB 4 CL 224.1 DT 6 S 201.2 DB 4 P 128.1 DT 7 P 128.8 DB 4 S 128.1 DT 7 S 128.8 DB 6 CL 242.3 DT 8 P 50.5 DT 8 S 50.5
4	2990	ST-0092	Load 180 tons---155 feet fwd of amidships Discharge 160 tons--- 38 feet fwd of amidships Load 140 tons--- 75 feet aft of amidships Discharge 170 tons---205 feet aft of amidships
4	2996	ST-0093	DB 4 CL 224.1 DT 2 P 100.7 DB 4 P 128.1 DT 2 S 100.7 DB 4 S 128.1 DT 3 P 86.1 DB 5 CL 180.0 DT 3 S 86.1 DB 5 P 178.0 DT 4 P/S 105.0 DB 5 S 180.0 DT 5 P/S 108.4 DB 6 CL 242.3 DIS/WATER 20.0 DB 6 P 87.0 DB 6 S 87.0

4	3006	ST-0094	<table> <thead> <tr> <th>Item</th> <th>Tons</th> <th>LCG-FP</th> </tr> <tr> <th>----</th> <th>----</th> <th>-----</th> </tr> </thead> <tbody> <tr> <td>F.O. & SALT WATER</td> <td>1300</td> <td>280.5</td> </tr> <tr> <td>FRESH WATER</td> <td>230</td> <td>298.0</td> </tr> <tr> <td>DRY CARGO</td> <td>8412</td> <td>260.5</td> </tr> <tr> <td>REEFER CARGO</td> <td>310</td> <td>355.5</td> </tr> <tr> <td>DECK CARGO</td> <td>150</td> <td>55.0</td> </tr> </tbody> </table>	Item	Tons	LCG-FP	----	----	-----	F.O. & SALT WATER	1300	280.5	FRESH WATER	230	298.0	DRY CARGO	8412	260.5	REEFER CARGO	310	355.5	DECK CARGO	150	55.0																											
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4	3030	ST-0097	DB 1 CL 48.2 DT 2 P 100.0 DB 1A CL 81.9 DT 2 S 100.0 DB 2 P 71.2 DT 3 P 86.0 DB 2 S 71.2 DT 3 S 86.0 DB 3 P 55.6 DT 4 P/S 120.0 DB 3 S 55.6 DT 5 P/S 108.4 DB 5 CL 196.2 DT 6 P 201.0 DB 7 P 94.6 DT 6 S 201.0 DB 7 S 94.6
4	3036	ST-0098	DB 2 P 71.2 DB 5 CL 196.2 DB 2 S 71.2 DB 5 P 178.0 DB 3 CL 220.0 DB 5 S 180.0 DB 3 P 55.6 DB 6 CL 242.3 DB 3 S 55.6 DB 6 P 87.0 DB 4 CL 224.1 DB 6 S 87.0 DB 4 P 128.1 DB 7 P 94.6 DB 4 S 128.1 DB 7 S 94.6 DT 4 P/S 110.0 DT 5 P/S 108.4
4	3038	ST-0099	DB 1 CL 48.2 DB 5 CL 180.0 DB 1A CL 81.9 DB 5 P 178.0 DB 2 P 71.2 DB 5 S 180.0 DB 2 S 71.2 DB 6CL 242.3 DB 3 CL 227.6 DB 7 P 94.6 DB 3 P 55.6 DB 7 S 94.6 DB 3 S 55.6 DT 6 P 201.2 DB 4 CL 200.0 DT 6 S 201.2 DB 4 P 128.1 DT 7 P 128.8 DB 4 S 128.1 DT 7 S 128.8

4	3042	ST-0100	DB 4 CL 224.1 DB 6 CL 200.0 DB 4 P 128.1 DB 6 P 87.0 DB 4 S 128.1 DB 6 S 87.0 DB 5 CL 196.2 DT 1A CL 257.6 DB 5 P 178.0 DT 5 P/S 108.4 DB 5 S 180.0
4	3072	ST-0101	No. 1 Second Deck 60 No. 1 Third Deck 70 No. 2 Second Deck 40 No. 2 Tank Top 100 No. 3 Third Deck 60 No. 3 Tank Top 70 No. 4 Second Deck 50 No. 4 Tank Top 80 No. 5 Second Deck 60 No. 5 Tank Top 60 No. 6 Second Deck 100 No. 7 Third Deck 80
4	3073	ST-0102	Discharge 240 tons---155 feet fwd of amidships Discharge 160 tons--- 38 feet fwd of amidships Load 115 tons--- 35 feet aft of amidships Discharge 170 tons---205 feet aft of amidships
4	3076	ST-0103	DB 3 CL 180.0 DT 2 P 80.0 DB 3 P 55.6 DT 2 S 80.0 DB 3 S 55.6 DT 3 P 86.1 DB 4 CL 224.1 DT 3 S 86.1 DB 4 P 128.1 DT 6 P 201.2 DB 4 S 128.1 DT 6 S 201.2 DB 5 CL 180.0 DB 5 P 178.0 DB 5 S 180.0

4	3083	ST-0104	DB 1 CL 48.2 DT 2 P 100.0 DB 1A CL 81.9 DT 2 S 100.0 DB 2 P 71.2 DT 3 P 86.0 DB 2 S 71.2 DT 3 S 86.0 DB 3 P 55.6 DT 4 P/S 120.0 DB 3 S 55.6 DT 5 P/S 108.4 DB 5 CL 196.2 DT 6 P 201.0 DB 7 P 87.0 DT 6 S 201.0 DB 7 S 87.0
4	3106	ST-0105	No. 1 Second Deck 70 No. 1 Third Deck 70 No. 2 Third Deck 80 No. 2 Tank Top 65 No. 3 Third Deck 55 No. 3 Tank Top 80 No. 4 Second Deck 50 No. 4 Tank Top 90 No. 5 Upper Level Flat 70 No. 5 Tank Top 70 No. 6 Second Deck 80 No. 6 Third Deck 60
4	3109	ST-0106	DB 1 CL 48.2 DB 5 CL 196.2 DB 1A CL 81.9 DB 6 CL 242.3 DB 2 P 71.2 DB 6 P 87.0 DB 2 S 71.2 DB 6 S 87.0 DB 3 CL 227.6 DB 7 P 94.6 DB 4 CL 224.1 DB 7 S 94.6 DB 4 P 128.1 DT 4 P/S 120.0 DB 4 S 128.1

4	3118	ST-0107	No. 1 Third Deck 150 No. 2 Tank Top 100 No. 3 Third Deck 75 No. 3 Tank Top 50 No. 4 Second Deck 80 No. 4 Third Deck 100 No. 5 Third Deck 90 No. 5 Tank Top 100 No. 6 Third Deck 120																																	
4	3141	ST-0108	<table> <thead> <tr> <th>ITEM</th> <th>TONS</th> <th>KG</th> </tr> </thead> <tbody> <tr> <td>----</td> <td>----</td> <td>--</td> </tr> <tr> <td>CREW and STORES</td> <td>50</td> <td>43.7</td> </tr> <tr> <td>LUBE OIL</td> <td>13</td> <td>25.8</td> </tr> <tr> <td>F.O. & SALT WATER</td> <td>2608</td> <td>8.5</td> </tr> <tr> <td>FRESH WATER</td> <td>80</td> <td>20.0</td> </tr> <tr> <td>DRY CARGO</td> <td>5469</td> <td>25.5</td> </tr> <tr> <td>REEFER CARGO</td> <td>225</td> <td>28.2</td> </tr> <tr> <td>DECK CARGO</td> <td>113</td> <td>55.0</td> </tr> <tr> <td colspan="2">TOTAL FREE SURFACE MOMENTS</td> <td>15585</td> </tr> <tr> <td colspan="3">FOR ALL LIQUIDS ON BOARD</td> </tr> </tbody> </table>	ITEM	TONS	KG	----	----	--	CREW and STORES	50	43.7	LUBE OIL	13	25.8	F.O. & SALT WATER	2608	8.5	FRESH WATER	80	20.0	DRY CARGO	5469	25.5	REEFER CARGO	225	28.2	DECK CARGO	113	55.0	TOTAL FREE SURFACE MOMENTS		15585	FOR ALL LIQUIDS ON BOARD		
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4	3146	ST-0109	No. 1 Third Deck 90 No. 2 Third Deck 80 No. 2 Tank Top 100 No. 3 Second Deck 50 No. 3 Third Deck 80 No. 3 Tank Top 75 No. 4 Tank Top 100 No. 5 Third Deck 80 No. 5 26'-6" Flat REEFER 50 No. 5 Third Deck REEFER 60 No. 6 Second Deck 100 No. 7 Second Deck 80																																	

4	3148	ST-0110	Load 125 tons---160 feet fwd of amidships Discharge 160 tons--- 68 feet fwd of amidships Load 140 tons--- 75 feet aft of amidships Load 170 tons---185 feet aft of amidships																					
4	3168	ST-0111	No. 1 Second Deck 75 No. 1 Third Deck 80 No. 2 Third Deck 60 No. 2 Tank Top 90 No. 3 Second Deck 80 No. 3 Third Deck 75 No. 4 Third Deck 90 No. 4 Tank Top 60 No. 5 Second Deck 50 No. 5 26'-6" Flat 50 No. 5 Third Deck 50 No. 5 26'-6" Flat REEFER 70 No. 6 Second Deck 75 No. 6 Third Deck 60 No. 7 Third Deck 80																					
4	3177	ST-0112	<table> <thead> <tr> <th>Item</th> <th>Tons</th> <th>LCG-FP</th> </tr> </thead> <tbody> <tr> <td>----</td> <td>----</td> <td>-----</td> </tr> <tr> <td>F.O. & SALT WATER</td> <td>2824</td> <td>268.5</td> </tr> <tr> <td>FRESH WATER</td> <td>160</td> <td>312.0</td> </tr> <tr> <td>DRY CARGO</td> <td>7190</td> <td>267.5</td> </tr> <tr> <td>REEFER CARGO</td> <td>170</td> <td>354.0</td> </tr> <tr> <td>DECK CARGO</td> <td>155</td> <td>60.2</td> </tr> </tbody> </table>	Item	Tons	LCG-FP	----	----	-----	F.O. & SALT WATER	2824	268.5	FRESH WATER	160	312.0	DRY CARGO	7190	267.5	REEFER CARGO	170	354.0	DECK CARGO	155	60.2
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4	3195	ST-0113	<table> <thead> <tr> <th>Item</th> <th>Tons</th> <th>LCG-FP</th> </tr> </thead> <tbody> <tr> <td>----</td> <td>----</td> <td>-----</td> </tr> <tr> <td>F.O. & SALT WATER</td> <td>1810</td> <td>260.5</td> </tr> <tr> <td>FRESH WATER</td> <td>120</td> <td>296.0</td> </tr> <tr> <td>DRY CARGO</td> <td>3450</td> <td>262.5</td> </tr> <tr> <td>REEFER CARGO</td> <td>100</td> <td>354.0</td> </tr> <tr> <td>DECK CARGO</td> <td>60</td> <td>59.0</td> </tr> </tbody> </table>	Item	Tons	LCG-FP	----	----	-----	F.O. & SALT WATER	1810	260.5	FRESH WATER	120	296.0	DRY CARGO	3450	262.5	REEFER CARGO	100	354.0	DECK CARGO	60	59.0
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4	3225	ST-0114	Load 120 tons---210 feet fwd of amidships Discharge 350 tons--- 40 feet fwd of amidships Load 340 tons--- 60 feet aft of amidships Discharge 60 tons---190 feet aft of amidships																																								
4	3245	ST-0115	<table> <thead> <tr> <th>Item</th> <th>Tons</th> <th>LCG-FP</th> </tr> </thead> <tbody> <tr> <td>----</td> <td>----</td> <td>-----</td> </tr> <tr> <td>F.O. & SALT WATER</td> <td>1380</td> <td>285.0</td> </tr> <tr> <td>FRESH WATER</td> <td>220</td> <td>298.0</td> </tr> <tr> <td>DRY CARGO</td> <td>9610</td> <td>268.0</td> </tr> <tr> <td>REEFER CARGO</td> <td>310</td> <td>354.0</td> </tr> <tr> <td>DECK CARGO</td> <td>90</td> <td>60.0</td> </tr> </tbody> </table>	Item	Tons	LCG-FP	----	----	-----	F.O. & SALT WATER	1380	285.0	FRESH WATER	220	298.0	DRY CARGO	9610	268.0	REEFER CARGO	310	354.0	DECK CARGO	90	60.0																			
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4	3249	ST-0116	<table> <tbody> <tr> <td>DB 1 CL</td> <td>48.2</td> <td>DB 6 CL</td> <td>200.0</td> </tr> <tr> <td>DB 1A CL</td> <td>81.9</td> <td>DB 6 P</td> <td>87.0</td> </tr> <tr> <td>DB 2 P</td> <td>71.2</td> <td>DB 6 S</td> <td>87.0</td> </tr> <tr> <td>DB 2 S</td> <td>71.2</td> <td>DT 1A CL</td> <td>257.6</td> </tr> <tr> <td>DB 4 CL</td> <td>224.1</td> <td>DT 4 P/S</td> <td>50.0</td> </tr> <tr> <td>DB 4 P</td> <td>128.1</td> <td>DT 5 P/S</td> <td>108.4</td> </tr> <tr> <td>DB 4 S</td> <td>128.1</td> <td>DIS/WATER</td> <td>10.0</td> </tr> <tr> <td>DB 5 CL</td> <td>196.2</td> <td></td> <td></td> </tr> <tr> <td>DB 5 P</td> <td>178.0</td> <td></td> <td></td> </tr> <tr> <td>DB 5 S</td> <td>180.0</td> <td></td> <td></td> </tr> </tbody> </table>	DB 1 CL	48.2	DB 6 CL	200.0	DB 1A CL	81.9	DB 6 P	87.0	DB 2 P	71.2	DB 6 S	87.0	DB 2 S	71.2	DT 1A CL	257.6	DB 4 CL	224.1	DT 4 P/S	50.0	DB 4 P	128.1	DT 5 P/S	108.4	DB 4 S	128.1	DIS/WATER	10.0	DB 5 CL	196.2			DB 5 P	178.0			DB 5 S	180.0		
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4	3285	ST-0118	DB 1 CL 48.2 DB 7 P 94.6 DB 1A CL 81.9 DB 7 S 94.6 DB 2 P 71.2 DT 2 P 100.7 DB 2 S 71.2 DT 2 S 100.7 DB 4 P 128.1 DT 6 P 201.2 DB 4 S 128.1 DT 6 S 201.2 DB 5 CL 196.2 DT 7 P 128.8 DB 5 P 178.0 DT 7 S 128.8 DB 5 S 180.0 DT 4 P/S 110.0 DB 6 CL 200.0 DT 5 P/S 108.4 DB 6 P 87.0 DIS/WATER 20.0 DB 6 S 87.0
4	3286	ST-0119	DB 1 CL 48.2 DB 6 CL 242.3 DB 1A CL 81.9 DB 6 P 87.0 DB 2 P 71.2 DB 6 S 87.0 DB 2 S 71.2 DB 7 P 94.6 DB 3 CL 227.6 DB 7 S 94.6 DB 3 P 55.6 DT 1 CL 125.3 DB 3 S 55.6 DT 1A CL 257.6 DB 4 CL 224.1 DT 6 P 201.2 DB 4 P 128.1 DT 6 S 201.2 DB 4 S 128.1 DT 4 P/S 120.0 DB 5 CL 196.2 DT 5 P/S 108.4 DB 5 P 150.0 DIS/WATER 20.0 DB 5 S 150.0
4	3306	ST-0120	Item Tons LCG-FP ---- ---- ----- F.O. & SALT WATER 3215 263.2 FRESH WATER 160 312.0 DRY CARGO 7880 268.5 REEFER CARGO 140 354.5 DECK CARGO 120 60.0

4	3311	ST-0121	<table> <thead> <tr> <th>ITEM</th> <th>TONS</th> <th>KG</th> </tr> <tr> <th>----</th> <th>----</th> <th>--</th> </tr> </thead> <tbody> <tr> <td>CREW and STORES</td> <td>50</td> <td>43.7</td> </tr> <tr> <td>LUBE OIL</td> <td>13</td> <td>25.8</td> </tr> <tr> <td>F.O. & SALT WATER</td> <td>2608</td> <td>8.5</td> </tr> <tr> <td>FRESH WATER</td> <td>80</td> <td>20.0</td> </tr> <tr> <td>DRY CARGO</td> <td>5469</td> <td>25.5</td> </tr> <tr> <td>REEFER CARGO</td> <td>225</td> <td>28.2</td> </tr> <tr> <td>DECK CARGO</td> <td>113</td> <td>55.0</td> </tr> <tr> <td colspan="2">TOTAL FREE SURFACE MOMENTS</td> <td>20454</td> </tr> <tr> <td colspan="3">FOR ALL LIQUIDS ON BOARD</td> </tr> </tbody> </table>	ITEM	TONS	KG	----	----	--	CREW and STORES	50	43.7	LUBE OIL	13	25.8	F.O. & SALT WATER	2608	8.5	FRESH WATER	80	20.0	DRY CARGO	5469	25.5	REEFER CARGO	225	28.2	DECK CARGO	113	55.0	TOTAL FREE SURFACE MOMENTS		20454	FOR ALL LIQUIDS ON BOARD		
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4	3315	ST-0122	<table> <tbody> <tr> <td>DB 1 CL 48.2</td> <td>DB 6 P 87.0</td> </tr> <tr> <td>DB 1A CL 81.9</td> <td>DB 6 S 87.0</td> </tr> <tr> <td>DB 2 P 71.2</td> <td>DB 7 P 94.6</td> </tr> <tr> <td>DB 2 S 71.2</td> <td>DB 7 S 94.6</td> </tr> <tr> <td>DB 4 P 128.1</td> <td>DT 2 P 100.7</td> </tr> <tr> <td>DB 4 S 128.1</td> <td>DT 2 S 100.7</td> </tr> <tr> <td>DB 5 CL 196.2</td> <td>DT 7 P 128.8</td> </tr> <tr> <td>DB 5 P 178.0</td> <td>DT 7 S 128.8</td> </tr> <tr> <td>DB 5 S 180.0</td> <td>DT 4 P/S 110.0</td> </tr> <tr> <td>DB 6 CL 200.0</td> <td>DT 5 P/S 108.4</td> </tr> <tr> <td colspan="2">DIS/WATER 20.0</td> </tr> </tbody> </table>	DB 1 CL 48.2	DB 6 P 87.0	DB 1A CL 81.9	DB 6 S 87.0	DB 2 P 71.2	DB 7 P 94.6	DB 2 S 71.2	DB 7 S 94.6	DB 4 P 128.1	DT 2 P 100.7	DB 4 S 128.1	DT 2 S 100.7	DB 5 CL 196.2	DT 7 P 128.8	DB 5 P 178.0	DT 7 S 128.8	DB 5 S 180.0	DT 4 P/S 110.0	DB 6 CL 200.0	DT 5 P/S 108.4	DIS/WATER 20.0												
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4	3333	ST-0123	<p>Load 140 tons---170 feet fwd of amidships Discharge 320 tons--- 60 feet fwd of amidships Load 270 tons---132 feet aft of amidships Discharge 230 tons---190 feet aft of amidships</p>																																	
4	3364	ST-0124	<table> <tbody> <tr> <td>Deck cargo</td> <td>180 Tons</td> </tr> <tr> <td>Upper tween deck layer</td> <td>2800 Tons</td> </tr> <tr> <td>Lower tween deck layer</td> <td>2800 Tons</td> </tr> <tr> <td>Hold layer</td> <td>2300 Tons</td> </tr> </tbody> </table>	Deck cargo	180 Tons	Upper tween deck layer	2800 Tons	Lower tween deck layer	2800 Tons	Hold layer	2300 Tons																									
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4	3384	ST-0125	No. 1 Second Deck 80 No. 1 Third Deck 75 No. 2 Third Deck 60 No. 2 Tank Top 94 No. 3 Second Deck 101 No. 3 Tank Top 57 No. 4 Third Deck 75 No. 4 Tank Top 83 No. 5 Tank Top 90 No. 5 26'-6" Flat (Reefer) 30 No. 5 Third Dk Reefer 30
4	3392	ST-0126	Deck cargo 250 Tons Upper tween deck layer 2800 Tons Lower tween deck layer 3200 Tons Hold layer 3200 Tons
4	3411	ST-0127	DB 4 CL 224.1 DT 2 P 100.7 DB 4 P 128.1 DT 2 S 100.7 DB 4 S 128.1 DT 3 P 86.1 DB 5 CL 180.0 DT 3 S 86.1 DB 5 P 178.0 DT 4 P/S 105.0 DB 5 S 180.0 DT 5 P/S 108.4 DB 6 CL 242.3 DIS/WATER 20.0 DB 6 P 87.0 DB 6 S 87.0
4	3424	ST-0128	Deck cargo 300 Tons Upper tween deck layer 2700 Tons Lower tween deck layer 3650 Tons Hold layer 2650 Tons

4	3432	ST-0129	DB 4 CL 224.1 DB 6 CL 200.0 DB 4 P 128.1 DB 6 P 87.0 DB 4 S 128.1 DB 6 S 87.0 DB 5 CL 196.2 DT 1A CL 257.6 DB 5 P 178.0 DT 5 P/S 108.4 DB 5 S 180.0
4	3434	ST-0130	No. 1 Second Deck 70 No. 1 Third Deck 70 No. 2 Third Deck 80 No. 2 Tank Top 65 No. 3 Third Deck 55 No. 3 Tank Top 80 No. 4 Second Deck 50 No. 4 Tank Top 90 No. 5 Upper Level Flat 70 No. 5 Tank Top 70 No. 6 Second Deck 80 No. 6 Third Deck 60
4	3448	ST-0131	No. 1 Second Deck 160 No. 2 Third Deck 85 No. 2 Tank Top 70 No. 3 Second Deck 80 No. 3 Tank Top 75 No. 4 Second Deck 40 No. 4 Tank Top 120 No. 5 26'-6", Flat 150 No. 6 Second Deck 85 No. 6 Third Deck 70
4	3464	ST-0132	No. 1 Second Deck 420 No. 2 Third Deck 410 No. 3 Third Deck 406 No. 4 Third Deck 418 No. 5 Tank Top 421 No. 6 Third Deck 412

4	3482	ST-0133	DB 2 P 71.2 DB 5 CL 196.2 DB 2 S 71.2 DB 5 P 178.0 DB 3 CL 227.6 DB 5 S 180.0 DB 3 P 55.6 DB 6 CL 242.3 DB 3 S 55.6 DB 6 P 87.0 DB 4 CL 150.0 DB 6 S 87.0 DB 4 P 100.0 DB 7 P 94.6 DB 4 S 90.0 DB 7 S 94.6 DT 1 CL 125.3 DT 1A CL 257.6
4	3495	ST-0134	Load 95 tons---210 feet fwd of amidships Discharge 160 tons--- 60 feet fwd of amidships Load 140 tons--- 60 feet aft of amidships Load 170 tons---190 feet aft of amidships
4	3504	ST-0135	No. 1 Second Deck 90 No. 1 Third Deck 70 No. 2 Third Deck 80 No. 2 Tank Top 85 No. 4 Second Deck 100 No. 4 Third Deck 75 No. 4 Tank Top 60 No. 5 Tank Top 100 No. 5 Upper (Reefer) 75 No. 5 Third Deck Reefer 70 No. 6 Second Deck 40 No. 6 Third Deck 40 No. 7 Second Deck 100 No. 7 Third Deck 50

4	3514	ST-0136	DB 4 CL 224.1 DB 7 P 90.0 DB 4 P 128.1 DB 7 S 90.0 DB 4 S 128.1 DT 1 CL 125.3 DB 5 CL 196.2 DT 1A CL 257.6 DB 5 P 178.0 DT 4 P/S 100.0 DB 5 S 180.0 DT 5 P/S 108.4 DB 6 CL 242.3 DIS/WATER 24.9 DB 6 P 87.0 DB 6 S 87.0
4	3528	ST-0137	DB 1 CL 48.2 DB 6 P 87.0 DB 1A CL 81.9 DB 6 S 87.0 DB 2 P 71.2 DB 7 P 94.6 DB 2 S 71.2 DB 7 S 94.6 DB 4 P 128.1 DT 2 P 100.7 DB 4 S 128.1 DT 2 S 100.7 DB 5 CL 196.2 DT 6 P 201.2 DB 5 P 178.0 DT 6 S 201.2 DB 5 S 180.0 DT 4 P/S 110.0 DB 6 CL 200.0 DT 5 P/S 108.4 DIS/WATER 20.0
4	3529	ST-0138	Stores 50 Tons Lube oil 13 Tons Cargo 8240 Tons Fuel oil 3200 Tons Fresh water 240 Tons Ballast 0 Tons

4	3547	ST-0139	<table border="0"> <thead> <tr> <th>ITEM</th> <th>TONS</th> <th>KG</th> </tr> <tr> <th>----</th> <th>----</th> <th>--</th> </tr> </thead> <tbody> <tr> <td>CREW and STORES</td> <td>50</td> <td>43.7</td> </tr> <tr> <td>LUBE OIL</td> <td>13</td> <td>25.8</td> </tr> <tr> <td>F.O. & SALT WATER</td> <td>2608</td> <td>7.5</td> </tr> <tr> <td>FRESH WATER</td> <td>80</td> <td>21.0</td> </tr> <tr> <td>DRY CARGO</td> <td>5469</td> <td>27.0</td> </tr> <tr> <td>REEFER CARGO</td> <td>225</td> <td>29.2</td> </tr> <tr> <td>DECK CARGO</td> <td>113</td> <td>55.0</td> </tr> <tr> <td colspan="2">TOTAL FREE SURFACE MOMENTS</td> <td>22273</td> </tr> <tr> <td colspan="3">FOR ALL LIQUIDS ON BOARD</td> </tr> </tbody> </table>	ITEM	TONS	KG	----	----	--	CREW and STORES	50	43.7	LUBE OIL	13	25.8	F.O. & SALT WATER	2608	7.5	FRESH WATER	80	21.0	DRY CARGO	5469	27.0	REEFER CARGO	225	29.2	DECK CARGO	113	55.0	TOTAL FREE SURFACE MOMENTS		22273	FOR ALL LIQUIDS ON BOARD									
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4	3549	ST-0140	<p>Load 140 tons---170 feet fwd of amidships Discharge 160 tons--- 60 feet fwd of amidships Discharge 140 tons--- 60 feet aft of amidships Load 230 tons---190 feet aft of amidships</p>																																								
4	3576	ST-0141	<p>Deck cargo 300 Tons Upper tween deck layer 1800 Tons Lower tween deck layer 2900 Tons Hold layer 3100 Tons</p>																																								
4	3583	ST-0142	<table border="0"> <tbody> <tr> <td>DB 2 P</td> <td>71.2</td> <td>DB 5 CL</td> <td>196.2</td> </tr> <tr> <td>DB 2 S</td> <td>71.2</td> <td>DB 5 P</td> <td>178.0</td> </tr> <tr> <td>DB 3 CL</td> <td>220.0</td> <td>DB 5 S</td> <td>180.0</td> </tr> <tr> <td>DB 3 P</td> <td>55.6</td> <td>DB 6 CL</td> <td>242.3</td> </tr> <tr> <td>DB 3 S</td> <td>55.6</td> <td>DB 6 P</td> <td>87.0</td> </tr> <tr> <td>DB 4 CL</td> <td>224.1</td> <td>DB 6 S</td> <td>87.0</td> </tr> <tr> <td>DB 4 P</td> <td>128.1</td> <td>DB 7 P</td> <td>94.6</td> </tr> <tr> <td>DB 4 S</td> <td>128.1</td> <td>DB 7 S</td> <td>94.6</td> </tr> <tr> <td></td> <td></td> <td>DT 4 P/S</td> <td>110.0</td> </tr> <tr> <td></td> <td></td> <td>DT 5 P/S</td> <td>108.4</td> </tr> </tbody> </table>	DB 2 P	71.2	DB 5 CL	196.2	DB 2 S	71.2	DB 5 P	178.0	DB 3 CL	220.0	DB 5 S	180.0	DB 3 P	55.6	DB 6 CL	242.3	DB 3 S	55.6	DB 6 P	87.0	DB 4 CL	224.1	DB 6 S	87.0	DB 4 P	128.1	DB 7 P	94.6	DB 4 S	128.1	DB 7 S	94.6			DT 4 P/S	110.0			DT 5 P/S	108.4
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4	3622	ST-0143	Deck cargo 180 Tons Upper tween deck layer 3000 Tons Lower tween deck layer 3500 Tons Hold layer 2500 Tons
4	3636	ST-0144	Stores 50 Tons Lube oil 13 Tons Cargo 2105 Tons Fuel oil 1860 Tons Fresh water 108 Tons Ballast 0 Tons
4	3658	ST-0145	DB 1 CL 48.2 DB 6 CL 200.0 DB 1A CL 81.9 DB 6 P 87.0 DB 2 P 71.2 DB 6 S 87.0 DB 2 S 71.2 DB 7 P 94.6 DB 4 CL 224.1 DB 7 S 94.6 DB 4 P 128.1 DT 2 P 100.7 DB 4 S 128.1 DT 2 S 100.7 DB 5 CL 196.2 DT 4 P/S 110.0 DB 5 P 178.0 DT 5 P/S 108.4 DB 5 S 180.0 DIS/WATER 20.0
4	3668	ST-0146	Deck cargo 300 Tons Upper tween deck layer 3000 Tons Lower tween deck layer 1500 Tons Hold layer 2500 Tons
4	3792	ST-0147	Stores 50 Tons Lube oil 13 Tons Cargo 3036 Tons Fuel oil 2636 Tons Fresh water 154 Tons Ballast 204 Tons

4	3832	ST-0148	DB 1 CL 48.2 DB 5 P 178.0 DB 1A CL 81.9 DB 5 S 180.0 DB 2 P 71.2 DB 6 CL 200.0 DB 2 S 71.2 DB 6 P 87.0 DB 3 CL 227.6 DB 6 S 87.0 DB 4 CL 224.1 DT 2 P 100.7 DB 4 P 128.1 DT 2 S 100.7 DB 4 S 128.1 DT 4 P/S 110.0 DB 5 CL 196.2 DT 5 P/S 108.4 DIS/WATER 20.0																																	
4	3902	ST-0149	<table border="0"> <thead> <tr> <th data-bbox="911 557 982 578">ITEM</th> <th data-bbox="1121 557 1199 578">TONS</th> <th data-bbox="1268 557 1310 578">KG</th> </tr> </thead> <tbody> <tr> <td data-bbox="911 594 982 615">----</td> <td data-bbox="1094 594 1163 615">----</td> <td data-bbox="1199 594 1226 615">--</td> </tr> <tr> <td data-bbox="911 621 1163 643">CREW and STORES</td> <td data-bbox="1247 621 1289 643">50</td> <td data-bbox="1310 621 1381 643">43.7</td> </tr> <tr> <td data-bbox="911 649 1037 670">LUBE OIL</td> <td data-bbox="1163 649 1205 670">13</td> <td data-bbox="1247 649 1318 670">25.8</td> </tr> <tr> <td data-bbox="911 677 1163 698">F.O. & SALT WATER</td> <td data-bbox="1205 677 1289 698">1906</td> <td data-bbox="1331 677 1381 698">7.5</td> </tr> <tr> <td data-bbox="911 704 1100 725">FRESH WATER</td> <td data-bbox="1205 704 1268 725">160</td> <td data-bbox="1310 704 1381 725">21.0</td> </tr> <tr> <td data-bbox="911 732 1079 753">DRY CARGO</td> <td data-bbox="1184 732 1268 753">7815</td> <td data-bbox="1310 732 1381 753">27.0</td> </tr> <tr> <td data-bbox="911 760 1121 781">REEFER CARGO</td> <td data-bbox="1226 760 1289 781">125</td> <td data-bbox="1310 760 1381 781">29.2</td> </tr> <tr> <td data-bbox="911 787 1100 808">DECK CARGO</td> <td data-bbox="1205 787 1268 808">155</td> <td data-bbox="1310 787 1381 808">55.0</td> </tr> <tr> <td colspan="2" data-bbox="911 880 1352 901">TOTAL FREE SURFACE MOMENTS</td> <td data-bbox="1415 880 1499 901">17899</td> </tr> <tr> <td colspan="3" data-bbox="911 907 1289 928">FOR ALL LIQUIDS ON BOARD</td> </tr> </tbody> </table>	ITEM	TONS	KG	----	----	--	CREW and STORES	50	43.7	LUBE OIL	13	25.8	F.O. & SALT WATER	1906	7.5	FRESH WATER	160	21.0	DRY CARGO	7815	27.0	REEFER CARGO	125	29.2	DECK CARGO	155	55.0	TOTAL FREE SURFACE MOMENTS		17899	FOR ALL LIQUIDS ON BOARD		
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4	3934	ST-0150	DB 1 CL 48.2 DB 5 P 178.0 DB 1A CL 81.9 DB 5 S 180.0 DB 2 P 71.2 DB 6 CL 200.0 DB 2 S 71.2 DB 6 P 87.0 DB 3 CL 227.6 DB 6 S 87.0 DB 4 CL 224.1 DT 1A CL 257.6 DB 4 P 128.1 DT 2 P 100.7 DB 4 S 128.1 DT 2 S 100.7 DB 5 CL 196.2 DT 4 P/S 110.0 DT 5 P/S 108.4 DIS/WATER 20.0																																	

4	3996	ST-0151	Stores 50 Tons Lube oil 13 Tons Cargo 4623 Tons Fuel oil 1800 Tons Fresh water 108 Tons Ballast 130 Tons
4	4006	ST-0152	Load 140 tons---170 feet fwd of amidships Discharge 160 tons--- 60 feet fwd of amidships Load 140 tons---132 feet aft of amidships Discharge 230 tons---190 feet aft of amidships
4	4074	ST-0153	Stores 50 Tons Lube oil 13 Tons Cargo 7212 Tons Fuel oil 2485 Tons Fresh water 98 Tons Ballast 0 Tons
4	4094	ST-0154	Load 90 tons--210 ft fwd of amidships Discharge 240 tons--38 ft fwd of amidships Discharge 120 tons--94 ft aft of amidships Load 140 tons--150 ft aft of amidships
4	4114	ST-0155	DB 1 CL 48.2 DB 6 CL 200.0 DB 1A CL 81.9 DB 6 P 87.0 DB 2 P 71.2 DB 6 S 87.0 DB 2 S 71.2 DT 1A CL 257.6 DB 4 P 128.1 DT 2 P 100.7 DB 4 S 128.1 DT 2 S 100.7 DB 5 CL 196.2 DT 4 P/S 110.0 DB 5 P 178.0 DT 5 P/S 108.4 DB 5 S 180.0 DIS/WATER 20.0

4	4178	ST-0156	DB 1 CL 48.2 DB 6 CL 200.0 DB 1A CL 81.9 DB 6 P 87.0 DB 2 P 71.2 DB 6 S 87.0 DB 2 S 71.2 DT 1A CL 257.6 DB 3 P 55.6 DT 2 P 100.7 DB 3 S 55.6 DT 2 S 100.7 DB 4 P 128.1 DT 7 P 128.8 DB 4 S 128.1 DT 7 S 128.8 DB 5 CL 196.2 DT 4 P/S 110.0 DB 5 P 178.0 DT 5 P/S 108.4 DB 5 S 180.0 DIS/WATER 20.0
4	4204	BL-0022	FREEBOARD FROM DECK LINE LOAD LINE Tropical 77 inches (T) 7 inches above (S) Summer 84 inches (S) * Winter 91 inches (W) 7 inches below (S) Fresh water allowance 8 inches
4	4206	BL-0021	FREEBOARD FROM DECK LINE LOAD LINE Tropical 69 inches (T) 7 inches above (S) Summer 76 inches (S) * Winter 83 inches (W) 7 inches below (S) Fresh water allowance 6 inches
4	4208	BL-0020	FREEBOARD FROM DECK LINE LOAD LINE Tropical 72 inches (T) 7 inches above (S) Summer 79 inches (S) * Winter 86 inches (W) 7 inches below (S) Fresh water allowance 6 inches

4	4209	BL-0019	<p>FREEBOARD FROM DECK LINE LOAD LINE</p> <p>Tropical 43 inches (T) 6 inches above (S) Summer 49 inches (S) * Winter 54 inches (W) 6 inches below (S) Fresh water allowance 5 inches</p>
4	4210	BL-0018	<p>FREEBOARD FROM DECK LINE LOAD LINE</p> <p>Tropical 68 inches (T) 6 inches above (S) Summer 74 inches (S) * Winter 80 inches (W) 6 inches below (S) Fresh water allowance 6 inches</p>
4	4212	BL-0017	<p>FREEBOARD FROM DECK LINE LOAD LINE</p> <p>Tropical 73 inches (T) 6 inches above (S) Summer 79 inches (S) * Winter 85 inches (W) 6 inches below (S) Fresh water allowance 6 inches</p>
4	4214	BL-0015	<p>FREEBOARD FROM DECK LINE LOAD LINE</p> <p>Tropical 66 inches (T) 6 inches above (S) Summer 72 inches (S) * Winter 78 inches (W) 6 inches below (S) Fresh water allowance 6 inches</p>
4	4216	BL-0016	<p>FREEBOARD FROM DECK LINE LOAD LINE</p> <p>Tropical 75 inches (T) 8 inches above (S) Summer 83 inches (S) * Winter 91 inches (W) 8 inches below (S) Fresh water allowance 9 inches</p>

4	4218	BL-0013	<p>FREEBOARD FROM DECK LINE LOAD LINE</p> <p>Tropical 72 inches (T) 5 inches above (S) Summer 77 inches (S) * Winter 82 inches (W) 5 inches below (S) Fresh water allowance 4 inches</p>
4	4219	BL-0011	<p>FREEBOARD FROM DECK LINE LOAD LINE</p> <p>Tropical 81 inches (T) 7 inches above (S) Summer 88 inches (S) * Winter 95 inches (W) 7 inches below (S) Fresh water allowance 6 inches</p>
4	4220	BL-0010	<p>FREEBOARD FROM DECK LINE LOAD LINE</p> <p>Tropical 76 inches (T) 7 inches above (S) Summer 83 inches (S) * Winter 90 inches (W) 7 inches below (S) Fresh water allowance 10 inches</p>
4	4222	ST-0157	<p>DB 1 CL 48.2 DB 5 P 178.0 DB 1A CL 81.9 DB 5 S 180.0 DB 2 P 71.2 DB 6 CL 200.0 DB 2 S 71.2 DT 2 P 100.7 DB 3 P 55.6 DT 2 S 100.7 DB 3 S 55.6 DT 6 P 201.2 DB 4 P 128.1 DT 6 S 201.2 DB 4 S 128.1 DT 4 P/S 110.0 DB 5 CL 196.2 DT 5 P/S 80.0 DIS/WATER 20.0</p>

4	4224	BL-0006	<p>FREEBOARD FROM DECK LINE LOAD LINE</p> <p>Tropical 75 inches (T) 8 inches above (S) Summer 83 inches (S) * Winter 91 inches (W) 8 inches below (S) Fresh water allowance 7 inches</p>
4	4226	BL-0007	<p>FREEBOARD FROM DECK LINE LOAD LINE</p> <p>Tropical 81 inches (T) 7 inches above (S) Summer 88 inches (S) * Winter 95 inches (W) 7 inches below (S) Fresh water allowance 6 inches</p>
4	4228	BL-0005	<p>FREEBOARD FROM DECK LINE LOAD LINE</p> <p>Tropical 74 inches (T) 7 inches above (S) Summer 81 inches (S) * Winter 88 inches (W) 7 inches below (S) Fresh water allowance 10 inches</p>
4	4229	BL-0008	<p>FREEBOARD FROM DECK LINE LOAD LINE</p> <p>Tropical 71 inches (T) 7 inches above (S) Summer 78 inches (S) * Winter 85 inches (W) 7 inches below (S) Fresh water allowance 6 inches</p>
4	4230	BL-0012	<p>FREEBOARD FROM DECK LINE LOAD LINE</p> <p>Tropical 61 inches (T) 5 inches above (S) Summer 66 inches (S) * Winter 71 inches (W) 5 inches below (S) Fresh water allowance 5 inches</p>

4	4312	ST-0158	DB 1 CL 48.2 DB 7 P 94.6 DB 1A CL 60.0 DB 7 S 94.6 DB 2 P 71.2 DT 1A CL 251.6 DB 2 S 71.2 DT 2 P 100.7 DB 4 CL 224.1 DT 2 S 100.7 DB 4 P 105.0 DT 3 P 86.1 DB 4 S 105.0 DT 3 S 86.1 DB 5 CL 196.2 DT 6 P 165.0 DB 6 CL 200.0 DT 6 S 165.0 DB 6 P 87.0 DT 7 P 128.8 DB 6 S 87.0 DT 7 S 128.8
4	4326	ST-0159	No. 1 Main Deck 60 No. 1 Third Deck 80 No. 2 Second Deck 70 No. 2 Tank Top 220 No. 3 Second Deck 50 No. 4 Third Deck 110 No. 4 Tank Top 350 No. 5 26'-6" Flat CL 110 No. 5 26'-6" Flat P/S REEFER 80 No. 6 Second Deck 90 No. 6 Third Deck 110 No. 7 Third Deck 80
4	4336	ST-0160	No. 1 Third Deck 80 No. 2 Second Deck 70 No. 2 Tank Top 120 No. 3 Second Deck 50 No. 3 Tank Top 410 No. 4 Tank Top 350 No. 5 26'-6" Flat CL 110 No. 5 26'-6" Flat P/S REEFER 80 No. 5 Tank Top 180 No. 6 Second Deck 90 No. 6 Third Deck 180 No. 7 Third Deck 140

4	4402	ST-0161	No. 1 Second Deck 60 No. 2 Second Deck 70 No. 2 Tank Top 120 No. 3 Second Deck 180 No. 3 Tank Top 410 No. 4 Second Deck 140 No. 5 Upper Level Flat 110 No. 5 Tank Top 180 No. 6 Second Deck 90 No. 6 Third Deck 70 No. 7 Second Deck 130 No. 7 Third Deck 140
4	4484	ST-0162	No. 1 Second Deck 60 No. 2 Second Deck 120 No. 2 Tank Top 140 No. 3 Second Deck 180 No. 4 Second Deck 140 No. 4 Tank Top 320 No. 5 Second Deck 70 No. 5 Tank Top 180 No. 6 Second Deck 90 No. 6 Third Deck 70 No. 7 Second Deck 130 No. 7 Third Deck 140
4	4534	ST-0163	No. 1 Main Deck 70 No. 2 Second Deck 120 No. 2 Third Deck 130 No. 3 Second Deck 180 No. 3 Tank Top 430 No. 4 Tank Top 320 No. 5 Tank Top 320 No. 6 Second Deck 70 No. 6 Third Deck 180 No. 7 Second Deck 120 No. 7 Third Deck 140

4	4574	ST-0164	No. 1 Main Deck 90 No. 2 Second Deck 160 No. 2 Third Deck 130 No. 3 Second Deck 180 No. 4 Second Deck 220 No. 4 Tank Top 320 No. 5 26'-6" Flat P/S REEFER 110 No. 6 Second Deck 70 No. 7 Second Deck 120 No. 7 Third Deck 140
4	4644	ST-0165	No. 1 Main Deck 120 No. 2 Third Deck 120 No. 3 Second Deck 80 No. 3 Tank Top 320 No. 5 Second Deck 90 No. 5 Third Deck 210 No. 5 Tank Top 450 No. 7 Second Deck 110 No. 7 Third Deck 140
4	4652	ST-0166	No. 1 Main Deck 90 No. 1 Second Deck 100 No. 2 Second Deck 160 No. 2 Third Deck 130 No. 3 Tank Top 380 No. 4 Tank Top 320 No. 5 Tank Top 360 No. 5 26'-6" Flat P/S REEFER 110 No. 6 Second Deck 120 No. 6 Third Deck 110 No. 7 Second Deck 120 No. 7 Third Deck 140

4	4746	ST-0167	DB 1 CL 48.2 DT 6 P 201.2 DB 2 P 65.0 DT 6 S 201.2 DB 2 S 65.0 DB 3 CL 227.6 DB 4 CL 224.1 DB 5 CL 196.2 DB 5 P 178.0 DB 5 S 180.0 DB 6 CL 220.0 DB 7 P 90.0 DB 7 S 90.0
4	4748	ST-0168	No. 1 Main Deck 90 No. 1 Second Deck 100 No. 2 Second Deck 160 No. 2 Third Deck 130 No. 3 Second Deck 180 No. 3 Tank Top 380 No. 4 Tank Top 320 No. 5 Second Deck 160 No. 5 26'-6" Flat P/S REEFER 110 No. 5 Tank Top 360 No. 6 Second Deck 110 No. 7 Second Deck 120 No. 7 Third Deck 140
4	4778	ST-0169	No. 1 Main Deck 120 No. 2 Second Deck 120 No. 2 Third Deck 130 No. 3 Tank Top 380 No. 4 Tank Top 320 No. 5 26'-6" Flat P/S REEFER 110 No. 6 Second Deck 120 No. 6 Third Deck 110 No. 7 Second Deck 120 No. 7 Third Deck 140

4	4812	ST-0170	DB 1 CL 48.2 DB 6 CL 242.3 DB 1A CL 81.9 DB 6 P 87.0 DB 2 P 71.2 DB 6 S 87.0 DB 2 S 71.2 DB 7 P 66.2 DB 3 CL 227.6 DB 7 S 58.4 DB 3 P 55.6 DT 1 84.2 DB 3 S 55.6 DT 1A CL 235.6 DB 4 CL 224.1 DT 3 P 86.1 DB 4 P 128.1 DT 3 S 86.1 DB 4 S 128.1 DT 6 P 201.2 DB 5 CL 196.2 DT 6 S 201.2 DT 7 P 128.8 DT 7 S 128.8
4	5068	ST-0171	DB 1 CL 48.2 DB 6 P 87.0 DB 1A CL 81.9 DB 6 S 87.0 DB 2 P 71.2 DB 7 P 94.6 DB 2 S 71.2 DB 7 S 94.6 DB 3 CL 227.6 DT 2 P 100.7 DB 4 CL 224.1 DT 2 S 100.7 DB 4 P 128.1 DT 3 P 86.1 DB 4 S 128.1 DT 3 S 86.1 DB 5 CL 180.0 DT 6 P 201.2 DB 5 P 178.0 DT 6 S 201.2 DB 5 S 180.0 DT 7 P 128.8 DB 6 CL 212.0 DT 7 S 128.8

4	5098	ST-0172	DB 1 CL 48.2 DB 7 P 94.6 DB 1A CL 81.9 DB 7 S 94.6 DB 2 P 71.2 DT 1 CL 125.3 DB 2 S 71.2 DT 1A CL 235.6 DB 3 CL 214.4 DT 2 P 100.7 DB 4 CL 224.1 DT 2 S 100.7 DB 4 P 128.1 DT 3 P 86.1 DB 4 S 128.1 DT 3 S 86.1 DB 6 CL 212.0 DT 6 P 201.2 DB 6 P 87.0 DT 6 S 201.2 DB 6 S 87.0 DT 7 P 128.8 DT 7 S 128.8
4	5124	ST-0173	DB 1 CL 48.2 DB 7 P 94.6 DB 1A CL 81.9 DB 7 S 94.6 DB 2 P 71.2 DT 1 CL 125.3 DB 2 S 71.2 DT 1A CL 235.6 DB 3 CL 227.6 DT 3 P 86.1 DB 3 P 55.6 DT 3 S 86.1 DB 3 S 55.6 DT 6 P 201.2 DB 4 CL 224.1 DT 6 S 201.2 DB 4 P 128.1 DT 7 P 128.8 DB 4 S 128.1 DT 7 S 128.8 DB 5 CL 170.4 DB 6 CL 212.0

4	5234	ST-0174	DB 1 CL 48.2 DB 6 P 87.0 DB 1A CL 81.9 DB 6 S 87.0 DB 2 P 71.2 DB 7 P 94.6 DB 2 S 71.2 DB 7 S 94.6 DB 3 CL 227.6 DT 1 CL 125.3 DB 3 P 55.6 DT 1A CL 235.6 DB 3 S 55.6 DT 3 P 86.1 DB 4 CL 208.6 DT 3 S 86.1 DB 4 P 128.1 DT 6 P 201.2 DB 4 S 128.1 DT 6 S 201.2 DB 5 CL 180.4 DT 7 P 128.8 DB 6 CL 212.0 DT 7 S 128.8
4	5302	ST-0175	DB 1 CL 48.2 DB 7 P 94.6 DB 1A CL 81.9 DB 7 S 94.6 DB 2 P 71.2 DT 1 CL 125.3 DB 2 S 71.2 DT 1A CL 235.6 DB 3 CL 227.6 DT 3 P 86.1 DB 3 P 55.6 DT 3 S 86.1 DB 3 S 55.6 DT 6 P 201.2 DB 4 CL 208.6 DT 6 S 201.2 DB 4 P 128.1 DT 7 P 128.8 DB 4 S 128.1 DT 7 S 128.8 DB 5 CL 196.2 DB 6 CL 212.0 DB 6 P 87.0 DB 6 S 87.0

4	5314	ST-0176	DB 1 CL 48.2 DB 7 P 94.6 DB 1A CL 81.9 DB 7 S 94.6 DB 2 P 71.2 DT 1 CL 125.3 DB 2 S 71.2 DT 1A CL 235.6 DB 3 CL 227.6 DT 3 P 86.1 DB 3 P 55.6 DT 3 S 86.1 DB 3 S 55.6 DT 6 P 201.2 DB 4 CL 208.6 DT 6 S 201.2 DB 4 P 128.1 DT 7 P 128.8 DB 4 S 128.1 DT 7 S 128.8 DB 5 CL 170.4 DB 6 CL 212.0
4	5412	ST-0177	DB 1 CL 48.2 DB 7 P 66.2 DB 1A CL 81.9 DB 7 S 58.4 DB 2 P 71.2 DT 1 CL 125.3 DB 2 S 71.2 DT 1A CL 235.6 DB 3 CL 227.6 DT 3 P 86.1 DB 3 P 55.6 DT 3 S 86.1 DB 3 S 55.6 DT 6 P 201.2 DB 4 CL 224.1 DT 6 S 201.2 DB 4 P 87.0 DT 7 P 128.8 DB 4 S 87.0 DT 7 S 128.8 DB 5 CL 196.2 DB 6 CL 242.3 DB 6 P 87.0 DB 6 S 87.0

4	5449	ST-0178	DB 1 CL 48.2 DB 7 P 44.6 DB 1A CL 81.9 DB 7 S 20.8 DB 2 P 71.2 DT 1 CL 125.3 DB 2 S 71.2 DT 1A CL 235.6 DB 3 CL 140.6 DT 3 P 86.1 DB 3 P 55.6 DT 3 S 86.1 DB 3 S 55.6 DT 6 P 201.2 DB 4 CL 224.1 DT 6 S 201.2 DB 4 P 87.0 DT 7 P 128.8 DB 4 S 87.0 DT 7 S 128.8 DB 5 CL 170.4 DB 6 CL 212.0
4	5462	ST-0179	DB 1 CL 40.0 DT 6 P 201.2 DB 2 P 65.0 DT 6 S 201.2 DB 2 S 65.0 DT 7 P 110.0 DB 3 CL 227.6 DT 7 S 110.0 DB 4 CL 224.1 DB 4 P 128.1 DB 4 S 128.1 DB 5 CL 196.2 DB 5 P 170.0 DB 5 S 170.0 DB 6 CL 242.3

4	5518	ST-0180	DB 1 CL 48.2 DB 7 P 44.6 DB 1A CL 81.9 DB 7 S 94.6 DB 2 P 71.2 DT 1 CL 125.3 DB 2 S 71.2 DT 1A CL 235.6 DB 3 CL 140.6 DT 3 P 86.1 DB 3 P 55.6 DT 3 S 86.1 DB 3 S 55.6 DT 6 P 201.2 DB 4 CL 224.1 DT 6 S 201.2 DB 4 P 087.0 DT 7 P 128.8 DB 4 S 087.0 DT 7 S 128.8 DB 5 CL 170.4 DB 6 CL 212.0																														
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FRESH WATER	190	21.0																																		
DRY CARGO	5440	27.0																																		
REEFER CARGO	225	29.2																																		
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4	6618	ST-0193	No. 1 Third Deck 60 No. 2 Second Deck 50 No. 2 Third Deck 90 No. 2 Tank Top 40 No. 3 Second Deck 120 No. 3 Tank Top 70 No. 5 Second Deck 120 No. 5 Tank Top 280 No. 6 Second Deck 30
4	6619	ST-0194	No. 1 Second Deck 80 No. 2 Second Deck 110 No. 2 Tank Top 70 No. 3 Tank Top 90 No. 4 Third Deck 35 No. 5 Second Deck 60 No. 5 Tank Top 220 No. 6 Second Deck 40 No. 6 Third Deck 70 No. 7 Second Deck 100
4	7052	ST-0195	No. 1 Second 75 No. 2 Tank Top 120 No. 3 Second Deck 60 No. 3 Third Deck 100 No. 3 Tank Top 80 No. 4 Third Deck 150 No. 5 Upper Level Flat 120 No. 5 Tank Top 90 No. 5 Third Deck REEFER 80 No. 6 Third Deck 40 No. 7 Second Deck 125

5	105		<p style="text-align: center;">ZONE OBSERVED</p> <p>BODY TIME GHA ALTITUDE(Ho) DECLINATION</p> <p>-----</p> <p>Vega 0533 327°50.1' 26°34.5' N 38°45.9'</p> <p>Spica 0543 48°21.6' 55°42.4' S 11°03.7'</p> <p>Dubhe 0552 86°01.1' 40°15.7' N 61°51.0'</p>
5	986	NP-0001	<p style="text-align: center;">ZONE OBSERVED</p> <p>TIME GHA ALTITUDE DECLINATION</p> <p>-----</p> <p>0915 110°44.9' 40°01.9' S 0°15.8'</p> <p>0950 119°27.4' 46°22.9' S 0°16.3'</p> <p>1020 127°00.9' 51°21.7' S 0°16.8'</p>
5	992	NP-0002	<p style="text-align: center;">ZONE OBSERVED</p> <p>TIME GHA ALTITUDE(Ho) DECLINATION</p> <p>-----</p> <p>0700 17°20.1' 21°09.0' S 00°09.7'</p> <p>0900 47°03.0' 46°05.0' S 00°11.6'</p> <p>1100 77°06.4' 63°16.1' S 00°13.5'</p>
5	993	NP-0003	<p style="text-align: center;">ZONE OBSERVED</p> <p>TIME GHA ALTITUDE DECLINATION</p> <p>-----</p> <p>0830 21°01.8' 44°16.4' N 21°29.2'</p> <p>0930 36°01.7' 57°25.5' N 21°28.8'</p> <p>1130 66°01.6' 81°30.2' N 21°28.0'</p>
5	994	NP-0004	<p style="text-align: center;">ZONE OBSERVED</p> <p>TIME GHA ALTITUDE(Ho) DECLINATION</p> <p>-----</p> <p>0800 12°50.0' 19°00.0' S 01°38.8'</p> <p>1030 50°20.4' 51°42.0' S 01°36.5'</p> <p>1130 65°20.5' 62°11.5' S 01°35.5'</p>

5	1021	NP-0005	<p style="text-align: center;">ZONE OBSERVED</p> <p>BODY TIME GHA ALTITUDE(Ho) DECLINATION</p> <p>---- ---- --- ----- -----</p> <p>Fomalhaut 0545 169°18.5' 32°50.8' S 29°43.4'</p> <p>Altair 0550 217°14.7' 48°27.2' N 8°48.9'</p> <p>Spica 0600 316°09.6' 13°34.0' S 11°03.8'</p>
5	1076	NP-0006	<p style="text-align: center;">ZONE OBSERVED</p> <p>BODY TIME GHA ALTITUDE(Ho) DECLINATION</p> <p>---- ---- --- ----- -----</p> <p>Peacock 0520 226°18.5' 49°42.9' S 56°47.6'</p> <p>Altair 0535 238°38.2' 43°53.1' N 8°48.9'</p> <p>Spica 0550 338°48.5' 21°11.7' S 11°03.8'</p>
5	1078	NP-0008	<p style="text-align: center;">ZONE OBSERVED</p> <p>BODY TIME GHA ALTITUDE(Ho) DECLINATION</p> <p>---- ---- --- ----- -----</p> <p>Sirius 1836 73°02.7' 46°00.5' S 16°41.7'</p> <p>Regulus 1842 23°46.9' 49°07.2' N 12°03.5'</p> <p>Mirfak 1900 129°24.3' 35°51.6' N 49°47.7'</p>
5	1079	NP-0009	<p style="text-align: center;">ZONE OBSERVED</p> <p>BODY TIME GHA ALTITUDE(Ho) DECLINATION</p> <p>---- ---- --- ----- -----</p> <p>Rigel 1845 329°19.7' 19°54.7" S 8°13.4'</p> <p>Peacock 1910 107°58.4' 32°43.9" S 56°47.8'</p> <p>Markab 1930 73°04.1' 39°53.1' N 15°06.5'</p>
5	1080	NP-0010	<p style="text-align: center;">ZONE OBSERVED</p> <p>BODY TIME GHA ALTITUDE(Ho) DECLINATION</p> <p>---- ---- --- ----- -----</p> <p>Regulus 0540 218°35.9' 13°02.2' N 12°03.5'</p> <p>Antares 0552 126°23.5' 38°04.1" S 26°23.3'</p> <p>Vega 0600 96°23.2' 52°33.5' N 38°45.8'</p>

5	1081	NP-0011	ZONE		OBSERVED			
			BODY	TIME	GHA	ALTITUDE(Ho)	DECLINATION	
			----	----	---	-----	-----	
			Venus	1810	341°30.4'	38°48.9"	S 12°48.1'	
Altair	1816	255°00.4'	41°20.3'	N 8°49.3'				
Peacock	1822	247°55.8'	48°39.5'	S 56°47.8'				
5	1082	NP-0012	ZONE		OBSERVED			
			BODY	TIME	GHA	ALTITUDE(Ho)	DECLINATION	
			----	----	---	-----	-----	
			Moon	1030	259°24.4'	34°01.5'	N 9°47.3'	
Sun	1116	202°30.5'	43°00.0'	S 19°38.0'				
Venus	1200	162°57.7'	24°26.9'	S 26°02.4'				
5	1084	NP-0014	ZONE		OBSERVED			
			BODY	TIME	GHA	ALTITUDE(Ho)	DECLINATION	
			----	----	---	-----	-----	
			Venus	1500	73°51.1'	48°29.5'	S 23°22.1'	
Sun L/L	1524	128°25.7'	24°24.9'	S 22°18.6'				
Moon L/L	1548	37°54.1'	43°24.8'	S 9°43.0'				
5	1086	NP-0016	ZONE		BODY'S	BODY'S	OBSERVED	
			STAR	TIME	GHA	DECLINATION	ALTITUDE(Ho)	
			----	----	-----	-----	-----	
			Deneb	1905	104°08.0'	N 45°12.8'	19°52.4'	
Antares	1924	172°02.1'	S 26°23.5'	32°22.1'				
Denebola	1945	247°20.6'	N 14°40.7'	38°22.3'				
5	1087	NP-0017	ZONE		BODY'S	BODY'S	OBSERVED	
			STAR	TIME	GHA	DECLINATION	ALTITUDE(Ho)	
			----	----	-----	-----	-----	
			Spica	1848	180°24.3'	S 11°03.8'	32°21.4'	
Altair	1910	89°29.8'	N 8°49.3'	43°06.3'				
Kochab	1935	170°33.4'	N 74°14.3'	39°12.0'				

5	1093	NP-0023	ZONE	BODY'S	OBSERVED		
			BODY	TIME	GHA	DECLINATION	ALTITUDE(Ho)
			----	----	-----	-----	-----
			Venus	1129	350°00.1'	S 25°41.8'	43°26.8'
Moon	1134	082°54.7'	S 01°46.5'	43°15.0'			
Sun	1137	042°38.0'	S 20°11.7'	81°44.7'			
5	1094	NP-0024	ZONE	BODY'S	BODY'S	OBSERVED	
			STAR	TIME	GHA	DECLINATION	ALTITUDE(Ho)
			----	----	-----	-----	-----
			Vega	1810	299°26.6'	N 38°46.3'	23°08.7'
Fomalhaut	1823	237°37.0'	S 29°43.2'	50°23.9'			
Antares	1835	337°43.4'	S 26°23.4'	40°53.1'			
5	1095	NP-0025	ZONE	BODY'S	BODY'S	OBSERVED	
			STAR	TIME	GHA	DECLINATION	ALTITUDE(Ho)
			----	----	-----	-----	-----
			Mirfak	0430	110°23.1'	N 49°47.7'	47°20.8'
Regulus	0440	011°48.3'	N 12°03.5'	37°49.9'			
Sirius	0455	066°19.5'	S 16°41.3'	48°25.3'			
5	1096	NP-0026	ZONE	OBSERVED			
			BODY	TIME	GHA	ALTITUDE(Ho)	DECLINATION
			----	----	---	-----	-----
			Rigel	0558	238°11.2'	38°39.5'	S 08°13.2'
Capella	0600	238°16.1'	55°15.1'	N 45°58.7'			
Denebola	0604	141°05.0'	33°39.8'	N 14°40.6'			
5	1097	NP-0027	ZONE	OBSERVED			
			BODY	TIME	GHA	ALTITUDE(Ho)	DECLINATION
			----	----	---	-----	-----
			Canopus	0510	120°08.7'	51°31.4'	S 52°40.9'
Aldebaran	0512	147°49.1'	29°07.8'	N 16°28.4'			
Regulus	0514	065°11.7'	45°57.5'	N 12°03.5'			

5	1098	NP-0028	<p style="text-align: center;">ZONE OBSERVED</p> <p>BODY TIME GHA ALTITUDE(Ho) DECLINATION</p> <p>---- ---- --- ----- -----</p> <p>Regulus 0530 018°56.5' 22°45.2' N 12°03.6'</p> <p>Sirius 0532 070°12.2' 44°30.6' S 16°41.3'</p> <p>Hamal 0536 140°44.1' 43°16.5' N 23°22.5'</p>
5	1099	NP-0029	<p style="text-align: center;">ZONE OBSERVED</p> <p>BODY TIME GHA ALTITUDE(Ho) DECLINATION</p> <p>---- ---- --- ----- -----</p> <p>Fomalhaut 0530 203°08.6' 25°17.5' S 29°43.4'</p> <p>Rigil Kent. 0536 194°12.4' 35°26.6' S 60°45.3'</p> <p>Vega 0540 135°43.2' 23°06.8' N 38°45.7'</p>
5	1102	NP-0031	<p style="text-align: center;">ZONE OBSERVED</p> <p>BODY TIME GHA ALTITUDE(Ho) DECLINATION</p> <p>---- ---- --- ----- -----</p> <p>Arcturus 0532 137°03.2' 22°34.9' N 19°16.7'</p> <p>Suhail 0537 215°10.4' 26°45.6' S 43°21.2'</p> <p>Capella 0538 273°25.1' 31°43.5' N 45°58.7'</p>
5	1103	NP-0032	<p style="text-align: center;">ZONE OBSERVED</p> <p>BODY TIME GHA ALTITUDE(Ho) DECLINATION</p> <p>---- ---- --- ----- -----</p> <p>Rigel 0512 167°31.4' 51°37.7' S 8°13.2'</p> <p>Diphda 0518 236°46.1' 31°52.1' S 18°05.2'</p> <p>Acamar 0524 204°33.0' 27°40.9' S 40°22.5'</p>
5	1104	NP-0033	<p style="text-align: center;">ZONE OBSERVED</p> <p>BODY TIME GHA ALTITUDE(Ho) DECLINATION</p> <p>---- ---- --- ----- -----</p> <p>Regulus 0530 198°24.3' 77°21.3' N 12°03.4'</p> <p>Arcturus 0532 137°03.2' 22°47.9' N 19°16.7'</p> <p>Suhail 0537 215°10.4' 26°44.9' S 43°21.2'</p>

5	1105	NP-0034	ZONE		OBSERVED		
			BODY	TIME	GHA	ALTITUDE(Ho)	DECLINATION
			----	----	---	-----	-----
			Diphda	0524	076°20.5'	50°34.8'	S 18°05.4'
Antares	0530	201°26.0'	14°16.9'	S 26°23.4'			
Deneb	0538	140°18.4'	22°00.3'	N 45°12.6'			
5	1107	NP-0036	ZONE		OBSERVED		
			BODY	TIME	GHA	ALTITUDE(Ho)	DECLINATION
			----	----	---	-----	-----
			Fomalhaut	0523	133°27.1'	35°40.4'	S 29°43.4'
Peacock	0527	172°33.9'	48°28.6'	S 56°47.6'			
Antares	0531	232°32.3'	51°43.9'	S 26°23.4'			
5	1109	NP-0038	ZONE		OBSERVED		
			BODY	TIME	GHA	ALTITUDE(Ho)	DECLINATION
			----	----	---	-----	-----
			Avoir	1727	209°18.2'	47°24.4'	S 59°27.3'
Regulus	1732	184°14.7'	46°35.2'	N 12°03.6'			
Betelgeuse	1738	249°03.6'	49°41.5'	N 7°24.1'			
5	1110	NP-0039	ZONE		OBSERVED		
			BODY	TIME	GHA	ALTITUDE(Ho)	DECLINATION
			----	----	---	-----	-----
			Mars	0525	180°59.9'	60°05.5'	N 07°05.2'
Arcturus	0532	137°03.2'	22°39.0'	N 19°16.7'			
Suhail	0537	215°10.4'	26°51.3'	S 43°21.2'			