

# Intercept course plotting for enemy convoys at 7kn

		Bearing													
		210°	240°	270°	300°	330°	0°	30°	60°	90°	120°	150°	180°		
Course	30°	F 210° 2.5' H 210° 4.0' S 210° 5.5' F* 210° 4.0' H* 210° 5.5' S* 210° 6.7'	F 252° 2.6' H 266° 4.5' S 301° 7.5' F* 266° 4.5' H* 301° 7.5' S* 301° 7.5'	F 291° 3.1' H 319° 6.9' S 319° 6.9' F* 319° 6.9' H* 319° 6.9' S* 319° 6.9'	F 324° 3.9' H 1° 15.5' S 1° 15.5' F* 1° 15.5' H* 1° 15.5' S* 1° 15.5'	F 351° 4.8' H 19° 34.9' S 19° 34.9' F* 19° 34.9' H* 19° 34.9' S* 19° 34.9'	F 12° 5.7' H 26° 53.0' S 26° 53.0' F* 26° 53.0' H* 26° 53.0' S* 26° 53.0'	F 30° 6.0' H 30° 60.0' S 30° 60.0' F* 30° 60.0' H* 30° 60.0' S* 30° 60.0'	F 48° 5.7' H 34° 53.0' S 34° 53.0' F* 34° 53.0' H* 34° 53.0' S* 34° 53.0'	F 69° 4.8' H 41° 34.9' S 41° 34.9' F* 41° 34.9' H* 41° 34.9' S* 41° 34.9'	F 96° 3.9' H 59° 15.5' S 59° 15.5' F* 59° 15.5' H* 59° 15.5' S* 59° 15.5'	F 129° 3.1' H 101° 6.9' S 101° 6.9' F* 101° 6.9' H* 101° 6.9' S* 101° 6.9'	F 168° 2.6' H 154° 4.5' S 119° 7.5' F* 154° 4.5' H* 119° 7.5' S* 119° 7.5'		
	60°	F 198° 2.6' H 184° 4.5' S 149° 7.5' F* 184° 4.5' H* 149° 7.5' S* 149° 7.5'	F 240° 2.5' H 240° 4.0' S 240° 5.5' F* 240° 4.0' H* 240° 5.5' S* 240° 6.7'	F 282° 2.6' H 296° 4.5' S 331° 7.5' F* 296° 4.5' H* 331° 7.5' S* 331° 7.5'	F 321° 3.1' H 349° 6.9' S 349° 6.9' F* 349° 6.9' H* 349° 6.9' S* 349° 6.9'	F 354° 3.9' H 31° 15.5' S 31° 15.5' F* 31° 15.5' H* 31° 15.5' S* 31° 15.5'	F 21° 4.8' H 49° 34.9' S 49° 34.9' F* 49° 34.9' H* 49° 34.9' S* 49° 34.9'	F 42° 5.7' H 56° 53.0' S 56° 53.0' F* 56° 53.0' H* 56° 53.0' S* 56° 53.0'	F 60° 6.0' H 60° 60.0' S 60° 60.0' F* 60° 60.0' H* 60° 60.0' S* 60° 60.0'	F 78° 5.7' H 64° 53.0' S 64° 53.0' F* 64° 53.0' H* 64° 53.0' S* 64° 53.0'	F 99° 4.8' H 71° 34.9' S 71° 34.9' F* 71° 34.9' H* 71° 34.9' S* 71° 34.9'	F 126° 3.9' H 89° 15.5' S 89° 15.5' F* 89° 15.5' H* 89° 15.5' S* 89° 15.5'	F 159° 3.1' H 131° 6.9' S 131° 6.9' F* 131° 6.9' H* 131° 6.9' S* 131° 6.9'		
	90°	F 189° 3.1' H 161° 6.9' S 179° 7.5' F* 161° 6.9' H* 179° 7.5' S* 179° 7.5'	F 228° 2.6' H 214° 4.5' S 179° 7.5' F* 214° 4.5' H* 179° 7.5' S* 179° 7.5'	F 270° 2.5' H 270° 4.0' S 270° 5.5' F* 270° 4.0' H* 270° 5.5' S* 270° 6.7'	F 312° 2.6' H 326° 4.5' S 1° 7.5' F* 326° 4.5' H* 1° 7.5' S* 1° 7.5'	F 351° 3.1' H 19° 6.9' S 19° 6.9' F* 19° 6.9' H* 19° 6.9' S* 19° 6.9'	F 24° 3.9' H 61° 15.5' S 61° 15.5' F* 61° 15.5' H* 61° 15.5' S* 61° 15.5'	F 51° 4.8' H 79° 34.9' S 79° 34.9' F* 79° 34.9' H* 79° 34.9' S* 79° 34.9'	F 72° 5.7' H 86° 53.0' S 86° 53.0' F* 86° 53.0' H* 86° 53.0' S* 86° 53.0'	F 90° 6.0' H 90° 60.0' S 90° 60.0' F* 90° 60.0' H* 90° 60.0' S* 90° 60.0'	F 108° 5.7' H 94° 53.0' S 94° 53.0' F* 94° 53.0' H* 94° 53.0' S* 94° 53.0'	F 129° 4.8' H 101° 34.9' S 101° 34.9' F* 101° 34.9' H* 101° 34.9' S* 101° 34.9'	F 156° 3.9' H 119° 15.5' S 119° 15.5' F* 119° 15.5' H* 119° 15.5' S* 119° 15.5'		
	120°	F 186° 3.9' H 149° 15.5' S 149° 15.5' F* 149° 15.5' H* 149° 15.5' S* 149° 15.5'	F 219° 3.1' H 191° 6.9' S 191° 6.9' F* 191° 6.9' H* 191° 6.9' S* 191° 6.9'	F 258° 2.6' H 244° 4.5' S 209° 7.5' F* 244° 4.5' H* 209° 7.5' S* 209° 7.5'	F 300° 2.5' H 300° 4.0' S 300° 5.5' F* 300° 4.0' H* 300° 5.5' S* 300° 6.7'	F 342° 2.6' H 356° 4.5' S 31° 7.5' F* 356° 4.5' H* 31° 7.5' S* 31° 7.5'	F 21° 3.1' H 49° 6.9' S 49° 6.9' F* 49° 6.9' H* 49° 6.9' S* 49° 6.9'	F 54° 3.9' H 91° 15.5' S 91° 15.5' F* 91° 15.5' H* 91° 15.5' S* 91° 15.5'	F 81° 4.8' H 109° 34.9' S 109° 34.9' F* 109° 34.9' H* 109° 34.9' S* 109° 34.9'	F 102° 5.7' H 116° 53.0' S 116° 53.0' F* 116° 53.0' H* 116° 53.0' S* 116° 53.0'	F 120° 6.0' H 120° 60.0' S 120° 60.0' F* 120° 60.0' H* 120° 60.0' S* 120° 60.0'	F 138° 5.7' H 124° 53.0' S 124° 53.0' F* 124° 53.0' H* 124° 53.0' S* 124° 53.0'	F 159° 4.8' H 131° 34.9' S 131° 34.9' F* 131° 34.9' H* 131° 34.9' S* 131° 34.9'		
	150°	F 189° 4.8' H 161° 34.9' S 161° 34.9' F* 161° 34.9' H* 161° 34.9' S* 161° 34.9'	F 216° 3.9' H 179° 15.5' S 179° 15.5' F* 179° 15.5' H* 179° 15.5' S* 179° 15.5'	F 249° 3.1' H 221° 6.9' S 221° 6.9' F* 221° 6.9' H* 221° 6.9' S* 221° 6.9'	F 288° 2.6' H 274° 4.5' S 239° 7.5' F* 274° 4.5' H* 239° 7.5' S* 239° 7.5'	F 330° 2.5' H 330° 4.0' S 330° 5.5' F* 330° 4.0' H* 330° 5.5' S* 330° 6.7'	F 12° 2.6' H 26° 4.5' S 61° 7.5' F* 26° 4.5' H* 61° 7.5' S* 61° 7.5'	F 51° 3.1' H 79° 6.9' S 79° 6.9' F* 79° 6.9' H* 79° 6.9' S* 79° 6.9'	F 84° 3.9' H 121° 15.5' S 121° 15.5' F* 121° 15.5' H* 121° 15.5' S* 121° 15.5'	F 111° 4.8' H 139° 34.9' S 139° 34.9' F* 139° 34.9' H* 139° 34.9' S* 139° 34.9'	F 132° 5.7' H 146° 53.0' S 146° 53.0' F* 146° 53.0' H* 146° 53.0' S* 146° 53.0'	F 150° 6.0' H 150° 60.0' S 150° 60.0' F* 150° 60.0' H* 150° 60.0' S* 150° 60.0'	F 168° 5.7' H 154° 53.0' S 154° 53.0' F* 154° 53.0' H* 154° 53.0' S* 154° 53.0'		
	180°	F 198° 5.7' H 184° 53.0' S 184° 53.0' F* 184° 53.0' H* 184° 53.0' S* 184° 53.0'	F 219° 4.8' H 191° 34.9' S 191° 34.9' F* 191° 34.9' H* 191° 34.9' S* 191° 34.9'	F 246° 3.9' H 209° 15.5' S 209° 15.5' F* 209° 15.5' H* 209° 15.5' S* 209° 15.5'	F 279° 3.1' H 251° 6.9' S 251° 6.9' F* 251° 6.9' H* 251° 6.9' S* 251° 6.9'	F 318° 2.6' H 304° 4.5' S 269° 7.5' F* 304° 4.5' H* 269° 7.5' S* 269° 7.5'	F 0° 2.5' H 0° 4.0' S 0° 5.5' F* 0° 4.0' H* 0° 5.5' S* 0° 6.7'	F 42° 2.6' H 56° 4.5' S 91° 7.5' F* 56° 4.5' H* 91° 7.5' S* 91° 7.5'	F 81° 3.1' H 109° 6.9' S 109° 6.9' F* 109° 6.9' H* 109° 6.9' S* 109° 6.9'	F 114° 3.9' H 151° 15.5' S 151° 15.5' F* 151° 15.5' H* 151° 15.5' S* 151° 15.5'	F 141° 4.8' H 169° 34.9' S 169° 34.9' F* 169° 34.9' H* 169° 34.9' S* 169° 34.9'	F 162° 5.7' H 176° 53.0' S 176° 53.0' F* 176° 53.0' H* 176° 53.0' S* 176° 53.0'	F 180° 6.0' H 180° 60.0' S 180° 60.0' F* 180° 60.0' H* 180° 60.0' S* 180° 60.0'		
	210°	F 210° 6.0' H 210° 60.0' S 210° 60.0' F* 210° 60.0' H* 210° 60.0' S* 210° 60.0'	F 228° 5.7' H 214° 53.0' S 214° 53.0' F* 214° 53.0' H* 214° 53.0' S* 214° 53.0'	F 249° 4.8' H 221° 34.9' S 221° 34.9' F* 221° 34.9' H* 221° 34.9' S* 221° 34.9'	F 276° 3.9' H 239° 15.5' S 239° 15.5' F* 239° 15.5' H* 239° 15.5' S* 239° 15.5'	F 309° 3.1' H 281° 6.9' S 281° 6.9' F* 281° 6.9' H* 281° 6.9' S* 281° 6.9'	F 348° 2.6' H 334° 4.5' S 299° 7.5' F* 334° 4.5' H* 299° 7.5' S* 299° 7.5'	F 30° 2.5' H 30° 4.0' S 30° 5.5' F* 30° 4.0' H* 30° 5.5' S* 30° 6.7'	F 72° 2.6' H 86° 4.5' S 121° 7.5' F* 86° 4.5' H* 121° 7.5' S* 121° 7.5'	F 111° 3.1' H 139° 6.9' S 139° 6.9' F* 139° 6.9' H* 139° 6.9' S* 139° 6.9'	F 144° 3.9' H 181° 15.5' S 181° 15.5' F* 181° 15.5' H* 181° 15.5' S* 181° 15.5'	F 171° 4.8' H 199° 34.9' S 199° 34.9' F* 199° 34.9' H* 199° 34.9' S* 199° 34.9'	F 192° 5.7' H 206° 53.0' S 206° 53.0' F* 206° 53.0' H* 206° 53.0' S* 206° 53.0'		
	240°	F 222° 5.7' H 236° 53.0' S 236° 53.0' F* 236° 53.0' H* 236° 53.0' S* 236° 53.0'	F 240° 6.0' H 240° 60.0' S 240° 60.0' F* 240° 60.0' H* 240° 60.0' S* 240° 60.0'	F 258° 5.7' H 244° 53.0' S 244° 53.0' F* 244° 53.0' H* 244° 53.0' S* 244° 53.0'	F 279° 4.8' H 251° 34.9' S 251° 34.9' F* 251° 34.9' H* 251° 34.9' S* 251° 34.9'	F 306° 3.9' H 269° 15.5' S 269° 15.5' F* 269° 15.5' H* 269° 15.5' S* 269° 15.5'	F 339° 3.1' H 311° 6.9' S 311° 6.9' F* 311° 6.9' H* 311° 6.9' S* 311° 6.9'	F 18° 2.6' H 4° 4.5' S 329° 7.5' F* 4° 4.5' H* 329° 7.5' S* 329° 7.5'	F 60° 2.5' H 60° 4.0' S 60° 5.5' F* 60° 4.0' H* 60° 5.5' S* 60° 6.7'	F 102° 2.6' H 116° 4.5' S 151° 7.5' F* 116° 4.5' H* 151° 7.5' S* 151° 7.5'	F 141° 3.1' H 169° 6.9' S 169° 6.9' F* 169° 6.9' H* 169° 6.9' S* 169° 6.9'	F 174° 3.9' H 211° 15.5' S 211° 15.5' F* 211° 15.5' H* 211° 15.5' S* 211° 15.5'	F 201° 4.8' H 229° 34.9' S 229° 34.9' F* 229° 34.9' H* 229° 34.9' S* 229° 34.9'		
	270°	F 231° 4.8' H 259° 34.9' S 259° 34.9' F* 259° 34.9' H* 259° 34.9' S* 259° 34.9'	F 252° 5.7' H 266° 53.0' S 266° 53.0' F* 266° 53.0' H* 266° 53.0' S* 266° 53.0'	F 270° 6.0' H 270° 60.0' S 270° 60.0' F* 270° 60.0' H* 270° 60.0' S* 270° 60.0'	F 288° 5.7' H 274° 53.0' S 274° 53.0' F* 274° 53.0' H* 274° 53.0' S* 274° 53.0'	F 309° 4.8' H 281° 34.9' S 281° 34.9' F* 281° 34.9' H* 281° 34.9' S* 281° 34.9'	F 336° 3.9' H 299° 15.5' S 299° 15.5' F* 299° 15.5' H* 299° 15.5' S* 299° 15.5'	F 9° 3.1' H 341° 6.9' S 341° 6.9' F* 341° 6.9' H* 341° 6.9' S* 341° 6.9'	F 48° 2.6' H 34° 4.5' S 359° 7.5' F* 34° 4.5' H* 359° 7.5' S* 359° 7.5'	F 90° 2.5' H 90° 4.0' S 90° 5.5' F* 90° 4.0' H* 90° 5.5' S* 90° 6.7'	F 132° 2.6' H 146° 4.5' S 181° 7.5' F* 146° 4.5' H* 181° 7.5' S* 181° 7.5'	F 171° 3.1' H 199° 6.9' S 199° 6.9' F* 199° 6.9' H* 199° 6.9' S* 199° 6.9'	F 204° 3.9' H 241° 15.5' S 241° 15.5' F* 241° 15.5' H* 241° 15.5' S* 241° 15.5'		
	300°	F 234° 3.9' H 271° 15.5' S 271° 15.5' F* 271° 15.5' H* 271° 15.5' S* 271° 15.5'	F 261° 4.8' H 289° 34.9' S 289° 34.9' F* 289° 34.9' H* 289° 34.9' S* 289° 34.9'	F 282° 5.7' H 296° 53.0' S 296° 53.0' F* 296° 53.0' H* 296° 53.0' S* 296° 53.0'	F 300° 6.0' H 300° 60.0' S 300° 60.0' F* 300° 60.0' H* 300° 60.0' S* 300° 60.0'	F 318° 5.7' H 304° 53.0' S 304° 53.0' F* 304° 53.0' H* 304° 53.0' S* 304° 53.0'	F 339° 4.8' H 311° 34.9' S 311° 34.9' F* 311° 34.9' H* 311° 34.9' S* 311° 34.9'	F 6° 3.9' H 329° 15.5' S 329° 15.5' F* 329° 15.5' H* 329° 15.5' S* 329° 15.5'	F 39° 3.1' H 11° 6.9' S 11° 6.9' F* 11° 6.9' H* 11° 6.9' S* 11° 6.9'	F 78° 2.6' H 64° 4.5' S 29° 7.5' F* 64° 4.5' H* 29° 7.5' S* 29° 7.5'	F 120° 2.5' H 120° 4.0' S 120° 5.5' F* 120° 4.0' H* 120° 5.5' S* 120° 6.7'	F 162° 2.6' H 176° 4.5' S 211° 7.5' F* 176° 4.5' H* 211° 7.5' S* 211° 7.5'	F 201° 3.1' H 229° 6.9' S 229° 6.9' F* 229° 6.9' H* 229° 6.9' S* 229° 6.9'		
	330°	F 231° 3.1' H 259° 6.9' S 259° 6.9' F* 259° 6													

# Intercept course plotting for enemy merchants at 7.6kn

		Bearing											
		210°	240°	270°	300°	330°	0°	30°	60°	90°	120°	150°	180°
Course	30°	F 210° 2.4' H 210° 3.8' S 210° 5.2' F* 210° 3.8' H* 210° 5.2' S* 210° 6.2'	F 253° 2.6' H 268° 4.4' S 312° 7.7' F* 268° 4.4' H* 312° 7.7' S* 312° 7.7'	F 293° 3.1' H 325° 7.2' S 325° 7.2' F* 325° 7.2' H* 325° 7.2' S* 325° 7.2'	F 327° 3.9' H 12° 24.0' S 12° 24.0' F* 12° 24.0' H* 12° 24.0' S* 12° 24.0'	F 353° 5.1' H 25° 80.3' S 25° 80.3' F* 25° 80.3' H* 25° 80.3' S* 25° 80.3'	F 13° 6.0' H 28° 31.0' S 28° 31.0' F* 28° 31.0' H* 28° 31.0' S* 28° 31.0'	F 30° 6.4' H 30° 50.0' S 30° 50.0' F* 30° 50.0' H* 30° 50.0' S* 30° 50.0'	F 47° 6.0' H 32° 31.0' S 32° 31.0' F* 32° 31.0' H* 32° 31.0' S* 32° 31.0'	F 67° 5.1' H 35° 80.3' S 35° 80.3' F* 35° 80.3' H* 35° 80.3' S* 35° 80.3'	F 93° 3.9' H 48° 24.0' S 48° 24.0' F* 48° 24.0' H* 48° 24.0' S* 48° 24.0'	F 127° 3.1' H 95° 7.2' S 95° 7.2' F* 95° 7.2' H* 95° 7.2' S* 95° 7.2'	F 167° 2.6' H 152° 4.4' S 108° 7.7' F* 152° 4.4' H* 108° 7.7' S* 108° 7.7'
	60°	F 197° 2.6' H 182° 4.4' S 138° 7.7' F* 182° 4.4' H* 138° 7.7' S* 138° 7.7'	F 240° 2.4' H 240° 3.8' S 240° 5.2' F* 240° 3.8' H* 240° 5.2' S* 240° 6.2'	F 283° 2.6' H 298° 4.4' S 342° 7.7' F* 298° 4.4' H* 342° 7.7' S* 342° 7.7'	F 323° 3.1' H 355° 7.2' S 355° 7.2' F* 355° 7.2' H* 355° 7.2' S* 355° 7.2'	F 357° 3.9' H 42° 24.0' S 42° 24.0' F* 42° 24.0' H* 42° 24.0' S* 42° 24.0'	F 23° 5.1' H 55° 80.3' S 55° 80.3' F* 55° 80.3' H* 55° 80.3' S* 55° 80.3'	F 43° 6.0' H 58° 31.0' S 58° 31.0' F* 58° 31.0' H* 58° 31.0' S* 58° 31.0'	F 60° 6.4' H 60° 50.0' S 60° 50.0' F* 60° 50.0' H* 60° 50.0' S* 60° 50.0'	F 77° 6.0' H 62° 31.0' S 62° 31.0' F* 62° 31.0' H* 62° 31.0' S* 62° 31.0'	F 97° 5.1' H 65° 80.3' S 65° 80.3' F* 65° 80.3' H* 65° 80.3' S* 65° 80.3'	F 123° 3.9' H 78° 24.0' S 78° 24.0' F* 78° 24.0' H* 78° 24.0' S* 78° 24.0'	F 157° 3.1' H 125° 7.2' S 125° 7.2' F* 125° 7.2' H* 125° 7.2' S* 125° 7.2'
	90°	F 187° 3.1' H 155° 7.2' S 168° 7.7' F* 155° 7.2' H* 168° 7.7' S* 168° 7.7'	F 227° 2.6' H 212° 4.4' S 168° 7.7' F* 212° 4.4' H* 168° 7.7' S* 168° 7.7'	F 270° 2.4' H 270° 3.8' S 270° 5.2' F* 270° 3.8' H* 270° 5.2' S* 270° 6.2'	F 313° 2.6' H 328° 4.4' S 12° 7.7' F* 328° 4.4' H* 12° 7.7' S* 12° 7.7'	F 353° 3.1' H 25° 7.2' S 25° 7.2' F* 25° 7.2' H* 25° 7.2' S* 25° 7.2'	F 27° 3.9' H 72° 24.0' S 72° 24.0' F* 72° 24.0' H* 72° 24.0' S* 72° 24.0'	F 53° 5.1' H 85° 80.3' S 85° 80.3' F* 85° 80.3' H* 85° 80.3' S* 85° 80.3'	F 73° 6.0' H 88° 31.0' S 88° 31.0' F* 88° 31.0' H* 88° 31.0' S* 88° 31.0'	F 90° 6.4' H 90° 50.0' S 90° 50.0' F* 90° 50.0' H* 90° 50.0' S* 90° 50.0'	F 107° 6.0' H 92° 31.0' S 92° 31.0' F* 92° 31.0' H* 92° 31.0' S* 92° 31.0'	F 127° 5.1' H 95° 80.3' S 95° 80.3' F* 95° 80.3' H* 95° 80.3' S* 95° 80.3'	F 153° 3.9' H 108° 24.0' S 108° 24.0' F* 108° 24.0' H* 108° 24.0' S* 108° 24.0'
	120°	F 183° 3.9' H 138° 24.0' S 138° 24.0' F* 138° 24.0' H* 138° 24.0' S* 138° 24.0'	F 217° 3.1' H 185° 7.2' S 185° 7.2' F* 185° 7.2' H* 185° 7.2' S* 185° 7.2'	F 257° 2.6' H 242° 4.4' S 198° 7.7' F* 242° 4.4' H* 198° 7.7' S* 198° 7.7'	F 300° 2.4' H 300° 3.8' S 300° 5.2' F* 300° 3.8' H* 300° 5.2' S* 300° 6.2'	F 343° 2.6' H 358° 4.4' S 42° 7.7' F* 358° 4.4' H* 42° 7.7' S* 42° 7.7'	F 23° 3.1' H 55° 7.2' S 55° 7.2' F* 55° 7.2' H* 55° 7.2' S* 55° 7.2'	F 57° 3.9' H 102° 24.0' S 102° 24.0' F* 102° 24.0' H* 102° 24.0' S* 102° 24.0'	F 83° 5.1' H 115° 80.3' S 115° 80.3' F* 115° 80.3' H* 115° 80.3' S* 115° 80.3'	F 103° 6.0' H 118° 31.0' S 118° 31.0' F* 118° 31.0' H* 118° 31.0' S* 118° 31.0'	F 120° 6.4' H 120° 50.0' S 120° 50.0' F* 120° 50.0' H* 120° 50.0' S* 120° 50.0'	F 137° 6.0' H 122° 31.0' S 122° 31.0' F* 122° 31.0' H* 122° 31.0' S* 122° 31.0'	F 157° 5.1' H 125° 80.3' S 125° 80.3' F* 125° 80.3' H* 125° 80.3' S* 125° 80.3'
	150°	F 187° 5.1' H 155° 80.3' S 155° 80.3' F* 155° 80.3' H* 155° 80.3' S* 155° 80.3'	F 213° 3.9' H 168° 24.0' S 168° 24.0' F* 168° 24.0' H* 168° 24.0' S* 168° 24.0'	F 247° 3.1' H 215° 7.2' S 215° 7.2' F* 215° 7.2' H* 215° 7.2' S* 215° 7.2'	F 287° 2.6' H 272° 4.4' S 228° 7.7' F* 272° 4.4' H* 228° 7.7' S* 228° 7.7'	F 330° 2.4' H 330° 3.8' S 330° 5.2' F* 330° 3.8' H* 330° 5.2' S* 330° 6.2'	F 13° 2.6' H 28° 4.4' S 72° 7.7' F* 28° 4.4' H* 72° 7.7' S* 72° 7.7'	F 53° 3.1' H 85° 7.2' S 85° 7.2' F* 85° 7.2' H* 85° 7.2' S* 85° 7.2'	F 87° 3.9' H 132° 24.0' S 132° 24.0' F* 132° 24.0' H* 132° 24.0' S* 132° 24.0'	F 113° 5.1' H 145° 80.3' S 145° 80.3' F* 145° 80.3' H* 145° 80.3' S* 145° 80.3'	F 133° 6.0' H 148° 31.0' S 148° 31.0' F* 148° 31.0' H* 148° 31.0' S* 148° 31.0'	F 150° 6.4' H 150° 50.0' S 150° 50.0' F* 150° 50.0' H* 150° 50.0' S* 150° 50.0'	F 167° 6.0' H 152° 31.0' S 152° 31.0' F* 152° 31.0' H* 152° 31.0' S* 152° 31.0'
	180°	F 197° 6.0' H 182° 31.0' S 182° 31.0' F* 182° 31.0' H* 182° 31.0' S* 182° 31.0'	F 217° 5.1' H 185° 80.3' S 185° 80.3' F* 185° 80.3' H* 185° 80.3' S* 185° 80.3'	F 243° 3.9' H 198° 24.0' S 198° 24.0' F* 198° 24.0' H* 198° 24.0' S* 198° 24.0'	F 277° 3.1' H 245° 7.2' S 245° 7.2' F* 245° 7.2' H* 245° 7.2' S* 245° 7.2'	F 317° 2.6' H 302° 4.4' S 258° 7.7' F* 302° 4.4' H* 258° 7.7' S* 258° 7.7'	F 0° 2.4' H 0° 3.8' S 0° 5.2' F* 0° 3.8' H* 0° 5.2' S* 0° 6.2'	F 43° 2.6' H 58° 4.4' S 102° 7.7' F* 58° 4.4' H* 102° 7.7' S* 102° 7.7'	F 83° 3.1' H 115° 7.2' S 115° 7.2' F* 115° 7.2' H* 115° 7.2' S* 115° 7.2'	F 117° 3.9' H 162° 24.0' S 162° 24.0' F* 162° 24.0' H* 162° 24.0' S* 162° 24.0'	F 143° 5.1' H 175° 80.3' S 175° 80.3' F* 175° 80.3' H* 175° 80.3' S* 175° 80.3'	F 163° 6.0' H 178° 31.0' S 178° 31.0' F* 178° 31.0' H* 178° 31.0' S* 178° 31.0'	F 180° 6.4' H 180° 50.0' S 180° 50.0' F* 180° 50.0' H* 180° 50.0' S* 180° 50.0'
	210°	F 210° 6.4' H 210° 50.0' S 210° 50.0' F* 210° 50.0' H* 210° 50.0' S* 210° 50.0'	F 227° 6.0' H 212° 31.0' S 212° 31.0' F* 212° 31.0' H* 212° 31.0' S* 212° 31.0'	F 247° 5.1' H 215° 80.3' S 215° 80.3' F* 215° 80.3' H* 215° 80.3' S* 215° 80.3'	F 273° 3.9' H 228° 24.0' S 228° 24.0' F* 228° 24.0' H* 228° 24.0' S* 228° 24.0'	F 307° 3.1' H 275° 7.2' S 275° 7.2' F* 275° 7.2' H* 275° 7.2' S* 275° 7.2'	F 347° 2.6' H 332° 4.4' S 288° 7.7' F* 332° 4.4' H* 288° 7.7' S* 288° 7.7'	F 30° 2.4' H 30° 3.8' S 30° 5.2' F* 30° 3.8' H* 30° 5.2' S* 30° 6.2'	F 73° 2.6' H 88° 4.4' S 132° 7.7' F* 88° 4.4' H* 132° 7.7' S* 132° 7.7'	F 113° 3.1' H 145° 7.2' S 145° 7.2' F* 145° 7.2' H* 145° 7.2' S* 145° 7.2'	F 147° 3.9' H 192° 24.0' S 192° 24.0' F* 192° 24.0' H* 192° 24.0' S* 192° 24.0'	F 173° 5.1' H 205° 80.3' S 205° 80.3' F* 205° 80.3' H* 205° 80.3' S* 205° 80.3'	F 193° 6.0' H 208° 31.0' S 208° 31.0' F* 208° 31.0' H* 208° 31.0' S* 208° 31.0'
	240°	F 223° 6.0' H 238° 31.0' S 238° 31.0' F* 238° 31.0' H* 238° 31.0' S* 238° 31.0'	F 240° 6.4' H 240° 50.0' S 240° 50.0' F* 240° 50.0' H* 240° 50.0' S* 240° 50.0'	F 257° 6.0' H 242° 31.0' S 242° 31.0' F* 242° 31.0' H* 242° 31.0' S* 242° 31.0'	F 277° 5.1' H 245° 80.3' S 245° 80.3' F* 245° 80.3' H* 245° 80.3' S* 245° 80.3'	F 303° 3.9' H 258° 24.0' S 258° 24.0' F* 258° 24.0' H* 258° 24.0' S* 258° 24.0'	F 337° 3.1' H 305° 7.2' S 305° 7.2' F* 305° 7.2' H* 305° 7.2' S* 305° 7.2'	F 17° 2.6' H 2° 4.4' S 318° 7.7' F* 2° 4.4' H* 318° 7.7' S* 318° 7.7'	F 60° 2.4' H 60° 3.8' S 60° 5.2' F* 60° 3.8' H* 60° 5.2' S* 60° 6.2'	F 103° 2.6' H 118° 4.4' S 162° 7.7' F* 118° 4.4' H* 162° 7.7' S* 162° 7.7'	F 143° 3.1' H 175° 7.2' S 175° 7.2' F* 175° 7.2' H* 175° 7.2' S* 175° 7.2'	F 177° 3.9' H 222° 24.0' S 222° 24.0' F* 222° 24.0' H* 222° 24.0' S* 222° 24.0'	F 203° 5.1' H 235° 80.3' S 235° 80.3' F* 235° 80.3' H* 235° 80.3' S* 235° 80.3'
	270°	F 233° 5.1' H 265° 80.3' S 265° 80.3' F* 265° 80.3' H* 265° 80.3' S* 265° 80.3'	F 253° 6.0' H 268° 31.0' S 268° 31.0' F* 268° 31.0' H* 268° 31.0' S* 268° 31.0'	F 270° 6.4' H 270° 50.0' S 270° 50.0' F* 270° 50.0' H* 270° 50.0' S* 270° 50.0'	F 287° 6.0' H 272° 31.0' S 272° 31.0' F* 272° 31.0' H* 272° 31.0' S* 272° 31.0'	F 307° 5.1' H 275° 80.3' S 275° 80.3' F* 275° 80.3' H* 275° 80.3' S* 275° 80.3'	F 333° 3.9' H 288° 24.0' S 288° 24.0' F* 288° 24.0' H* 288° 24.0' S* 288° 24.0'	F 7° 3.1' H 335° 7.2' S 335° 7.2' F* 335° 7.2' H* 335° 7.2' S* 335° 7.2'	F 47° 2.6' H 32° 4.4' S 348° 7.7' F* 32° 4.4' H* 348° 7.7' S* 348° 7.7'	F 90° 2.4' H 90° 3.8' S 90° 5.2' F* 90° 3.8' H* 90° 5.2' S* 90° 6.2'	F 133° 2.6' H 148° 4.4' S 192° 7.7' F* 148° 4.4' H* 192° 7.7' S* 192° 7.7'	F 173° 3.1' H 205° 7.2' S 205° 7.2' F* 205° 7.2' H* 205° 7.2' S* 205° 7.2'	F 207° 3.9' H 252° 24.0' S 252° 24.0' F* 252° 24.0' H* 252° 24.0' S* 252° 24.0'
	300°	F 237° 3.9' H 282° 24.0' S 282° 24.0' F* 282° 24.0' H* 282° 24.0' S* 282° 24.0'	F 263° 5.1' H 295° 80.3' S 295° 80.3' F* 295° 80.3' H* 295° 80.3' S* 295° 80.3'	F 283° 6.0' H 298° 31.0' S 298° 31.0' F* 298° 31.0' H* 298° 31.0' S* 298° 31.0'	F 300° 6.4' H 300° 50.0' S 300° 50.0' F* 300° 50.0' H* 300° 50.0' S* 300° 50.0'	F 317° 6.0' H 302° 31.0' S 302° 31.0' F* 302° 31.0' H* 302° 31.0' S* 302° 31.0'	F 337° 5.1' H 305° 80.3' S 305° 80.3' F* 305° 80.3' H* 305° 80.3' S* 305° 80.3'	F 3° 3.9' H 318° 24.0' S 318° 24.0' F* 318° 24.0' H* 318° 24.0' S* 318° 24.0'	F 37° 3.1' H 5° 7.2' S 5° 7.2' F* 5° 7.2' H* 5° 7.2' S* 5° 7.2'	F 77° 2.6' H 62° 4.4' S 18° 7.7' F* 62° 4.4' H* 18° 7.7' S* 18° 7.7'	F 120° 2.4' H 120° 3.8' S 120° 5.2' F* 120° 3.8' H* 120° 5.2' S* 120° 6.2'	F 163° 2.6' H 178° 4.4' S 178° 4.4' F* 178° 4.4' H* 178° 4.4' S* 178° 4.4'	F 203° 3.1' H 203°