

Alphabetical			SHA order		
Name	SHA	Dec	Name	SHA	Dec
Acamar	315°14.7'	40°13.5' S	Markab	13°33.6'	15°18.8' N
Achernar	335°23.2'	57°08.1' S	Fomalhaut	15°18.8'	29°30.9' S
Acrux	173°04.1'	63°12.6' S	Al Na-ir	27°37.8'	46°51.8' S
Adhara	255°08.8'	29°00.0' S	Enif	33°42.5'	9°58.0' N
Al Na-ir	27°37.8'	46°51.8' S	Deneb	49°28.3'	45°21.2' N
Aldebaran	290°44.0'	16°32.9' N	Peacock	53°11.7'	56°40.1' S
Alioth	166°16.5'	55°51.1' N	Altair	62°03.7'	8°55.3' N
Alkaid	152°55.1'	49°12.8' N	Nunki	75°52.4'	26°16.2' S
Alnilam	275°41.6'	1°11.4' S	Vega	80°35.8'	38°48.2' N
Alphard	217°51.4'	8°44.8' S	Kaus Austr.	83°37.5'	34°22.4' S
Alphecca	126°07.0'	26°38.9' N	Eltanin	90°43.9'	51°29.2' N
Alpheratz	357°38.6'	29°12.1' N	Rasalhague	96°02.1'	12°32.8' N
Altair	62°03.7'	8°55.3' N	Shaula	96°15.5'	37°07.0' S
Ankaa	353°11.0'	42°11.8' S	Sabik	102°07.1'	15°44.9' S
Antares	112°20.4'	26°28.5' S	Atria	107°18.0'	69°03.7' S
Arcturus	145°51.2'	19°05.1' N	Antares	112°20.4'	26°28.5' S
Atria	107°18.0'	69°03.7' S	Alphecca	126°07.0'	26°38.9' N
Avior	234°16.2'	59°34.5' S	Zuben-bi	137°00.2'	16°07.4' S
Bellatrix	278°26.9'	6°22.0' N	Kochab	137°20.0'	74°04.4' N
Betelgeuse	270°56.2'	7°24.5' N	Rigel Kent	139°45.1'	60°55.0' S
Canopus	263°54.1'	52°42.4' S	Arcturus	145°51.2'	19°05.1' N
Capella	280°27.5'	46°01.1' N	Menkent	148°01.9'	36°28.0' S
Deneb	49°28.3'	45°21.2' N	Hadar	148°41.2'	60°28.1' S
Denebola	182°28.7'	14°27.6' N	Alkaid	152°55.1'	49°12.8' N
Diphda	348°51.2'	17°52.6' S	Spica	158°26.3'	11°15.9' S
Dubhe	193°45.8'	61°38.6' N	Alioth	166°16.5'	55°51.1' N
Elnath	278°06.6'	28°37.4' N	Gacrux	171°55.7'	57°13.5' S
Eltanin	90°43.9'	51°29.2' N	Acrux	173°04.1'	63°12.6' S
Enif	33°42.5'	9°58.0' N	Gienah	175°47.4'	17°39.2' S
Fomalhaut	15°18.8'	29°30.9' S	Denebola	182°28.7'	14°27.6' N
Gacrux	171°55.7'	57°13.5' S	Dubhe	193°45.8'	61°38.6' N
Gienah	175°47.4'	17°39.2' S	Regulus	207°38.4'	11°52.1' N
Hadar	148°41.2'	60°28.1' S	Alphard	217°51.4'	8°44.8' S
Hamal	327°55.4'	23°33.4' N	Miaplacidus	221°38.8'	69°48.0' S
Kaus Austr.	83°37.5'	34°22.4' S	Suhail	222°49.0'	43°30.8' S
Kochab	137°20.0'	74°04.4' N	Avior	234°16.2'	59°34.5' S
Markab	13°33.6'	15°18.8' N	Pollux	243°21.8'	27°58.6' N
Menkar	314°10.1'	4°10.0' N	Procyon	244°54.7'	5°10.5' N
Menkent	148°01.9'	36°28.0' S	Adhara	255°08.8'	29°00.0' S
Miaplacidus	221°38.8'	69°48.0' S	Sirius	258°29.4'	16°44.5' S
Mirfak	308°33.6'	49°55.8' N	Canopus	263°54.1'	52°42.4' S
Nunki	75°52.4'	26°16.2' S	Betelgeuse	270°56.2'	7°24.5' N
Peacock	53°11.7'	56°40.1' S	Alnilam	275°41.6'	1°11.4' S
Pollux	243°21.8'	27°58.6' N	Elnath	278°06.6'	28°37.4' N
Procyon	244°54.7'	5°10.5' N	Bellatrix	278°26.9'	6°22.0' N
Rasalhague	96°02.1'	12°32.8' N	Capella	280°27.5'	46°01.1' N
Regulus	207°38.4'	11°52.1' N	Rigel	281°07.5'	8°10.8' S
Rigel	281°07.5'	8°10.8' S	Aldebaran	290°44.0'	16°32.9' N
Rigel Kent	139°45.1'	60°55.0' S	Mirfak	308°33.6'	49°55.8' N
Sabik	102°07.1'	15°44.9' S	Menkar	314°10.1'	4°10.0' N
Schedar	349°35.2'	56°38.8' N	Acamar	315°14.7'	40°13.5' S
Shaula	96°15.5'	37°07.0' S	Hamal	327°55.4'	23°33.4' N
Sirius	258°29.4'	16°44.5' S	Achernar	335°23.2'	57°08.1' S
Spica	158°26.3'	11°15.9' S	Diphda	348°51.2'	17°52.6' S
Suhail	222°49.0'	43°30.8' S	Schedar	349°35.2'	56°38.8' N
Vega	80°35.8'	38°48.2' N	Ankaa	353°11.0'	42°11.8' S
Zuben-bi	137°00.2'	16°07.4' S	Alpheratz	357°38.6'	29°12.1' N

Table with 3 columns: LHA, Hc, Zn. It contains two main sections of data, one for the left half (LHA 0-178) and one for the right half (LHA 180-358). Each section lists celestial coordinates and names for stars like Dubhe, Regulus, and others.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, POLLUX, *CAPELLA, Alpheratz, *DENEK, VEGA, *ARCTURUS.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *DENEK, *ARCTURUS, REGULUS, POLLUX, *CAPELLA, Alpheratz.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, POLLUX, *CAPELLA, Alpheratz, *DENEK, VEGA, *ARCTURUS.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Alpheratz, *DENEK, VEGA, *ARCTURUS, REGULUS, POLLUX, *CAPELLA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *ARCTURUS, REGULUS, POLLUX, *CAPELLA, Alpheratz, *DENEK, VEGA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Alpheratz, *DENEK, VEGA, *ARCTURUS, REGULUS, POLLUX, *CAPELLA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *ARCTURUS, REGULUS, POLLUX, *CAPELLA, Alpheratz, *DENEK, VEGA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *CAPELLA, Alpheratz, *DENEK, VEGA, *ARCTURUS, REGULUS, POLLUX, Dubhe.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like VEGA, *ARCTURUS, REGULUS, POLLUX, *CAPELLA, Alpheratz, *DENEK.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like POLLUX, *CAPELLA, Alpheratz, *DENEK, VEGA, *ARCTURUS, Dubhe.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *DENEK, VEGA, *ARCTURUS, REGULUS, POLLUX, *CAPELLA, Alpheratz.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like POLLUX, *CAPELLA, Alpheratz, *DENEK, VEGA, *ARCTURUS, Dubhe.

Table with 15 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star data for Dubhe, POLLUX, *CAPELLA, Alpheratz, *DENEBO, VEGA, *ARCTURUS.

Table with 15 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star data for Dubhe, POLLUX, *CAPELLA, Alpheratz, *DENEBO, VEGA, *ARCTURUS.

Table with 15 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star data for *ARCTURUS, Dubhe, POLLUX, *CAPELLA, Alpheratz, *DENEBO, VEGA.

Table with 15 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star data for *ARCTURUS, REGULUS, POLLUX, *CAPELLA, Alpheratz, *DENEBO, VEGA.

Table with 15 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star data for VEGA, *ARCTURUS, REGULUS, POLLUX, *CAPELLA, Alpheratz, *DENEBO.

Table with 15 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star data for *DENEBO, VEGA, *ARCTURUS, REGULUS, POLLUX, *CAPELLA, Alpheratz.

Table with 15 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star data for *DENEBO, VEGA, *ARCTURUS, REGULUS, POLLUX, *CAPELLA, Alpheratz.

Table with 15 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star data for Alpheratz, *DENEBO, VEGA, *ARCTURUS, REGULUS, POLLUX, *CAPELLA.

Table with 15 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star data for Alpheratz, *DENEBO, VEGA, *ARCTURUS, Dubhe, POLLUX, *CAPELLA.

Table with 15 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star data for *CAPELLA, Alpheratz, *DENEBO, VEGA, *ARCTURUS, REGULUS, Dubhe, POLLUX.

Table with 15 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star data for POLLUX, *CAPELLA, Alpheratz, *DENEBO, VEGA, *ARCTURUS, Dubhe.

Table with 15 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star data for POLLUX, *CAPELLA, Alpheratz, *DENEBO, VEGA, *ARCTURUS, Dubhe.

Table with columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 0-28. Stars: Dubhe, POLLUX, *CAPELLA, Alpheratz, *DENEBO, VEGA, *ARCTURUS.

Table with columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 30-58. Stars: Dubhe, POLLUX, *CAPELLA, Alpheratz, *DENEBO, VEGA, *ARCTURUS.

Table with columns: *ARCTURUS, Dubhe, POLLUX, *CAPELLA, Alpheratz, *DENEBO, VEGA. Rows 60-88. Stars: *ARCTURUS, Dubhe, POLLUX, *CAPELLA, Alpheratz, *DENEBO, VEGA.

Table with columns: *ARCTURUS, REGULUS, POLLUX, *CAPELLA, Alpheratz, *DENEBO, VEGA. Rows 90-118. Stars: *ARCTURUS, REGULUS, POLLUX, *CAPELLA, Alpheratz, *DENEBO, VEGA.

Table with columns: VEGA, *ARCTURUS, REGULUS, POLLUX, *CAPELLA, Alpheratz, *DENEBO. Rows 120-148. Stars: VEGA, *ARCTURUS, REGULUS, POLLUX, *CAPELLA, Alpheratz, *DENEBO.

Table with columns: *DENEBO, VEGA, *ARCTURUS, REGULUS, POLLUX, *CAPELLA, Alpheratz. Rows 150-178. Stars: *DENEBO, VEGA, *ARCTURUS, REGULUS, POLLUX, *CAPELLA, Alpheratz.

Table with columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 180-208. Stars: *DENEBO, VEGA, *ARCTURUS, REGULUS, POLLUX, *CAPELLA, Alpheratz.

Table with columns: Alpheratz, *DENEBO, VEGA, *ARCTURUS, REGULUS, POLLUX, *CAPELLA. Rows 210-238. Stars: Alpheratz, *DENEBO, VEGA, *ARCTURUS, REGULUS, POLLUX, *CAPELLA.

Table with columns: Alpheratz, *DENEBO, VEGA, *ARCTURUS, Dubhe, POLLUX, *CAPELLA. Rows 240-268. Stars: Alpheratz, *DENEBO, VEGA, *ARCTURUS, Dubhe, POLLUX, *CAPELLA.

Table with columns: *CAPELLA, Alpheratz, *DENEBO, VEGA, *ARCTURUS, Dubhe, POLLUX. Rows 270-298. Stars: *CAPELLA, Alpheratz, *DENEBO, VEGA, *ARCTURUS, Dubhe, POLLUX.

Table with columns: POLLUX, *CAPELLA, Alpheratz, *DENEBO, VEGA, *ARCTURUS, Dubhe. Rows 300-328. Stars: POLLUX, *CAPELLA, Alpheratz, *DENEBO, VEGA, *ARCTURUS, Dubhe.

Table with columns: POLLUX, *CAPELLA, Alpheratz, *DENEBO, VEGA, *ARCTURUS, Dubhe. Rows 330-358. Stars: POLLUX, *CAPELLA, Alpheratz, *DENEBO, VEGA, *ARCTURUS, Dubhe.

Table with columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *CAPELLA, Hamal, Alpheratz, *DENEBO, VEGA, *Alloth.

Table with columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *DENEBO, VEGA, *ARCTURUS, REGULUS, *CAPELLA, Alpheratz.

Table with columns: *Alloth, POLLUX, *CAPELLA, Hamal, Alpheratz, *DENEBO, VEGA. Rows include star names and coordinates.

Table with columns: Alpheratz, *DENEBO, VEGA, *ARCTURUS, REGULUS, POLLUX, *CAPELLA. Rows include star names and coordinates.

Table with columns: *Alloth, POLLUX, *CAPELLA, Hamal, Alpheratz, *DENEBO, VEGA. Rows include star names and coordinates.

Table with columns: Alpheratz, *DENEBO, VEGA, *ARCTURUS, Dubhe, POLLUX, *CAPELLA. Rows include star names and coordinates.

Table with columns: *ARCTURUS, REGULUS, POLLUX, *CAPELLA, Alpheratz, *DENEBO, VEGA. Rows include star names and coordinates.

Table with columns: *CAPELLA, Alpheratz, *DENEBO, VEGA, *ARCTURUS, Dubhe, POLLUX. Rows include star names and coordinates.

Table with columns: VEGA, *ARCTURUS, REGULUS, POLLUX, *CAPELLA, Alpheratz, *DENEBO. Rows include star names and coordinates.

Table with columns: POLLUX, *CAPELLA, Alpheratz, *DENEBO, VEGA, *ARCTURUS, Dubhe. Rows include star names and coordinates.

Table with columns: *DENEBO, VEGA, *ARCTURUS, REGULUS, POLLUX, *CAPELLA, Alpheratz. Rows include star names and coordinates.

Table with columns: POLLUX, *CAPELLA, Hamal, Alpheratz, *DENEBO, VEGA, *Alloth. Rows include star names and coordinates.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *CAPELLA, Hamal, Alpheratz, *DENEB, VEGA, *Alioth.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *DENEB, VEGA, *ARCTURUS, REGULUS, POLLUX, *CAPELLA, Alpheratz.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *Alioth, POLLUX, *CAPELLA, Hamal, Alpheratz, *DENEB, VEGA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Alpheratz, *DENEB, VEGA, *ARCTURUS, REGULUS, POLLUX, *CAPELLA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *Alioth, POLLUX, *CAPELLA, Hamal, Alpheratz, *DENEB, VEGA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Alpheratz, *DENEB, VEGA, *ARCTURUS, Dubhe, POLLUX, *CAPELLA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *ARCTURUS, REGULUS, POLLUX, *CAPELLA, Alpheratz, *DENEB, VEGA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *CAPELLA, Alpheratz, *DENEB, VEGA, *ARCTURUS, Dubhe, POLLUX.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like VEGA, *ARCTURUS, REGULUS, POLLUX, *CAPELLA, Alpheratz, *DENEB.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like POLLUX, *CAPELLA, Alpheratz, *DENEB, VEGA, *ARCTURUS, Dubhe.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *DENEB, VEGA, *ARCTURUS, REGULUS, POLLUX, *CAPELLA, Alpheratz.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like POLLUX, *CAPELLA, Hamal, Alpheratz, *DENEB, VEGA, *Alioth.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Contains star names like *CAPELLA, Hamal, Alpheratz, *DENEBO, VEGA, *Alioth, *POLLUX, *REGULUS, *CAPPELLA, Hamal, Alpheratz, *DENEBO, VEGA, *Alioth.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Contains star names like *DENEBO, *VEGA, ARCTURUS, *REGULUS, *CAPPELLA, Alpheratz, *DENEBO, VEGA, *ARCTURUS, REGULUS, POLLUX, *CAPPELLA.

Table of star coordinates for the left page (Lat 76 N). Columns include star names (e.g., POLLUX, *CAPELLA, Hamal, Alpheratz, *DENEK, Vega, *Alioth) and their corresponding Right Ascension and Declination values.

Table of star coordinates for the right page (Lat 76 N). Columns include star names (e.g., DENEK, *VEGA, ARCTURUS, *REGULUS, *CAPELLA, Alpheratz) and their corresponding Right Ascension and Declination values.

Table with 24 columns (LHA, Hc, Zn) and 48 rows of astronomical data. Each row contains two sets of star data with their respective names (e.g., POLLUX, CAPELLA, Hamal) and coordinates (LHA, Hc, Zn).

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *POLLUX, CAPELLA, Hamal, *Alpheratz, DENEBO, *VEGA, Alioth.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *DENEBO, CAPELLA, *Alpheratz, DENEBO, *VEGA, Alioth.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Alioth, *POLLUX, CAPELLA, *Hamal, Alpheratz, DENEBO, *VEGA.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Alpheratz, *DENEBO, VEGA, *ARCTURUS, REGULUS, POLLUX, CAPELLA.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Alioth, *POLLUX, CAPELLA, *Hamal, Alpheratz, DENEBO, *VEGA.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Alpheratz, *DENEBO, VEGA, *ARCTURUS, Dubhe, POLLUX, CAPELLA.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Alioth, *REGULUS, POLLUX, *CAPELLA, Alpheratz, *DENEBO, VEGA.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *CAPELLA, Alpheratz, *DENEBO, VEGA, *ARCTURUS, Dubhe, POLLUX.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *VEGA, ARCTURUS, *REGULUS, POLLUX, *CAPELLA, Alpheratz, DENEBO.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like POLLUX, *CAPELLA, Alpheratz, *DENEBO, VEGA, *ARCTURUS, Dubhe.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like DENEBO, *VEGA, ARCTURUS, *REGULUS, POLLUX, *CAPELLA, Alpheratz.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *POLLUX, CAPELLA, Hamal, *Alpheratz, DENEBO, *VEGA, Alioth.

Table with columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *POLLUX, *CAPPELLA, *Hamal, *Alpheratz, *DENEBO, *VEGA, *Alioth.

Table with columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *DENEBO, *VEGA, *ARCTURUS, *REGULUS, *POLLUX, *CAPPELLA, *Alpheratz.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. It lists astronomical data for various stars like POLLUX, CAPELLA, Hamal, Alpheratz, DENEBS, and VEGA.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. It lists astronomical data for stars like DENEBS, VEGA, *ARCTURUS, REGULUS, *POLLUX, CAPELLA, and Alpheratz.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. It lists astronomical data for stars like Alioth, *POLLUX, CAPELLA, *Hamal, Alpheratz, DENEBS, and VEGA.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. It lists astronomical data for stars like Alpheratz, *DENEBS, VEGA, *ARCTURUS, Dubhe, POLLUX, and *CAPELLA.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. It lists astronomical data for stars like Alioth, *REGULUS, POLLUX, *CAPELLA, Alpheratz, *DENEBS, and VEGA.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. It lists astronomical data for stars like *CAPELLA, Alpheratz, *DENEBS, VEGA, *ARCTURUS, Dubhe, POLLUX, and *CAPELLA.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. It lists astronomical data for stars like *VEGA, ARCTURUS, *REGULUS, POLLUX, *CAPELLA, Alpheratz, and DENEBS.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. It lists astronomical data for stars like *CAPELLA, Hamal, Alpheratz, *DENEBS, VEGA, *ARCTURUS, and Dubhe.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. It lists astronomical data for stars like DENEBS, *VEGA, ARCTURUS, *REGULUS, POLLUX, *CAPELLA, and Alpheratz.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. It lists astronomical data for stars like *POLLUX, CAPELLA, Hamal, *Alpheratz, DENEBS, *VEGA, and Alioth.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 0-30. Stars: *POLLUX, CAPELLA, Hamal, *Alpheratz, DENEB, *VEGA, Alioth.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 180-208. Stars: *DENEB, VEGA, *ARCTURUS, REGULUS, *POLLUX, CAPELLA, Schedar.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 30-58. Stars: Alioth, *POLLUX, CAPELLA, *Hamal, Alpheratz, DENEB, *VEGA.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 210-238. Stars: Alpheratz, *DENEB, VEGA, *ARCTURUS, REGULUS, POLLUX, *CAPELLA.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 60-88. Stars: Alioth, *POLLUX, CAPELLA, *Hamal, Alpheratz, DENEB, *VEGA.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 240-268. Stars: Alpheratz, *DENEB, VEGA, *ARCTURUS, Dubhe, POLLUX, *CAPELLA.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 90-118. Stars: Alioth, *REGULUS, POLLUX, *CAPELLA, Alpheratz, *DENEB, VEGA.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 270-298. Stars: *CAPELLA, Alpheratz, *DENEB, VEGA, *ARCTURUS, Alkaid, Dubhe.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 120-148. Stars: *VEGA, ARCTURUS, *REGULUS, POLLUX, *CAPELLA, Alpheratz, DENEB.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 300-328. Stars: *CAPELLA, Hamal, Alpheratz, *DENEB, VEGA, *ARCTURUS, Dubhe.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 150-178. Stars: DENEB, *VEGA, ARCTURUS, *REGULUS, POLLUX, *CAPELLA, Alpheratz.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 330-358. Stars: *POLLUX, CAPELLA, Hamal, *Alpheratz, DENEB, *VEGA, Alioth.

Table with columns for LHA, Hc, Zn, and star names (POLLUX, CAPELLA, Hamal, Alpheratz, DENEBO, VEGA, Alioth, etc.) and rows of numerical data representing coordinates and other values.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 0-14. Stars: *POLLUX, CAPELLA, Hamal, *Alpheratz, DENEB, *VEGA, Alioth.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 90-104. Stars: Alioth, *REGULUS, PROCYON, BETELGEUSE, *ALDEBARAN, Hamal, *DENEB.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 15-29. Stars: Alioth, *POLLUX, CAPELLA, Hamal, *Alpheratz, DENEB, *VEGA.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 105-119. Stars: Alioth, *REGULUS, PROCYON, BETELGEUSE, *CAPELLA, Hamal, *DENEB.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 30-44. Stars: Alioth, *POLLUX, ALDEBARAN, *Hamal, Alpheratz, DENEB, *VEGA.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 120-134. Stars: *VEGA, ARCTURUS, *REGULUS, PROCYON, *CAPELLA, Schedar, DENEB.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 45-59. Stars: *POLLUX, ALDEBARAN, *Hamal, Alpheratz, DENEB, *VEGA.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 135-149. Stars: DENEB, *VEGA, ARCTURUS, *REGULUS, PROCYON, *CAPELLA, Schedar.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 60-74. Stars: Alioth, *POLLUX, ALDEBARAN, *Hamal, Alpheratz, DENEB, *VEGA.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 150-164. Stars: DENEB, *VEGA, ARCTURUS, *REGULUS, PROCYON, *CAPELLA, Schedar.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 75-89. Stars: Alioth, *REGULUS, PROCYON, *ALDEBARAN, Hamal, Alpheratz, *DENEB.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 165-179. Stars: DENEB, *VEGA, ARCTURUS, *REGULUS, POLLUX, *CAPELLA, Schedar.

Table of star coordinates for the first half of the sky (RA 0 to 18h). Columns include LHA, Hc, Zn, and star names like DENEK, VEKA, ARCTURUS, REGULUS, POLLUX, CAPELLA, SCHEDAR.

Table of star coordinates for the second half of the sky (RA 18 to 24h). Columns include LHA, Hc, Zn, and star names like CAPELLA, HAMAL, ALPHERATZ, DENEK, VEKA, ARCTURUS, ALIOTH.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 0-14. Stars: *POLLUX, CAPELLA, Hamal, *Alpheratz, DENEB, *VEGA, Alioth.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 90-104. Stars: Alioth, *REGULUS, PROCYON, BETELGEUSE, *ALDEBARAN, Hamal, *DENEB.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 15-29. Stars: Alioth, *POLLUX, CAPELLA, Hamal, *Alpheratz, DENEB, *VEGA, Alioth.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 105-119. Stars: Alioth, *REGULUS, PROCYON, BETELGEUSE, *CAPELLA, Hamal, *DENEB.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 30-44. Stars: Alioth, *POLLUX, ALDEBARAN, *Hamal, Alpheratz, DENEB, *VEGA, Alioth.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 120-134. Stars: *VEGA, ARCTURUS, *REGULUS, PROCYON, *CAPELLA, Schedar, DENEB.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 45-59. Stars: Alioth, *POLLUX, ALDEBARAN, *Hamal, Alpheratz, DENEB, *VEGA, Alioth.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 135-149. Stars: DENEB, *VEGA, ARCTURUS, *REGULUS, PROCYON, *CAPELLA, Schedar.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 60-74. Stars: Alioth, *POLLUX, ALDEBARAN, *Hamal, Alpheratz, DENEB, *VEGA, Alioth.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 150-164. Stars: DENEB, *VEGA, ARCTURUS, *REGULUS, PROCYON, *CAPELLA, Schedar.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 75-89. Stars: Alioth, *REGULUS, PROCYON, *ALDEBARAN, Hamal, Alpheratz, *DENEB, Alioth.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 165-179. Stars: DENEB, *VEGA, ARCTURUS, *REGULUS, POLLUX, *CAPELLA, Schedar.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 0-14, containing star data for POLLUX, CAPELLA, Hamal, Alpheratz, DENEB, *VEGA, and Alioth.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 90-104, containing star data for Alioth, *REGULUS, PROCYON, BETELGEUSE, *ALDEBARAN, Hamal, and *DENEB.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 15-29, continuing star data for Alioth, *POLLUX, CAPELLA, Hamal, Alpheratz, DENEB, *VEGA, and Alioth.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 105-119, continuing star data for Alioth, *REGULUS, PROCYON, BETELGEUSE, *CAPELLA, Hamal, and *DENEB.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 30-44, continuing star data for Alioth, *POLLUX, ALDEBARAN, *Hamal, Alpheratz, DENEB, *VEGA, and Alioth.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 120-134, continuing star data for *VEGA, ARCTURUS, *REGULUS, PROCYON, *CAPELLA, Schedar, and DENEB.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 45-59, continuing star data for Alioth, *POLLUX, ALDEBARAN, *Hamal, Alpheratz, DENEB, *VEGA, and Alioth.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 135-149, continuing star data for DENEB, *VEGA, ARCTURUS, *REGULUS, PROCYON, *CAPELLA, and Schedar.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 60-74, continuing star data for Alioth, *POLLUX, ALDEBARAN, *Hamal, Alpheratz, DENEB, *VEGA, and Alioth.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 150-164, continuing star data for DENEB, *VEGA, ARCTURUS, *REGULUS, PROCYON, *CAPELLA, and Schedar.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 75-89, continuing star data for Alioth, *REGULUS, PROCYON, *ALDEBARAN, Hamal, Alpheratz, *DENEB, and Alioth.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 165-179, continuing star data for DENEB, *VEGA, ARCTURUS, *REGULUS, POLLUX, *CAPELLA, and Schedar.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hamal, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 0-14.

Table with 13 columns: Alioth, *POLLUX, CAPELLA, Hamal, *Alpheratz, DENEBS, *VEGA, Alioth. Rows 15-29.

Table with 13 columns: Alioth, *POLLUX, ALDEBARAN, *Hamal, Alpheratz, DENEBS, *VEGA, Alioth. Rows 30-44.

Table with 13 columns: Alioth, *POLLUX, ALDEBARAN, *Hamal, Alpheratz, DENEBS, *VEGA, Alioth. Rows 45-59.

Table with 13 columns: Alioth, *POLLUX, ALDEBARAN, *Hamal, Alpheratz, DENEBS, *VEGA, Alioth. Rows 60-74.

Table with 13 columns: Alioth, *REGULUS, PROCYON, *ALDEBARAN, Hamal, Alpheratz, *DENEBS, Alioth. Rows 75-89.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Alioth, *REGULUS, PROCYON, BETELGEUSE, *ALDEBARAN, Hamal, *DENEBS. Rows 90-104.

Table with 13 columns: Alioth, *REGULUS, PROCYON, BETELGEUSE, *CAPELLA, Hamal, *DENEBS. Rows 105-119.

Table with 13 columns: *VEGA, ARCTURUS, *REGULUS, PROCYON, *CAPELLA, Schedar, DENEBS. Rows 120-134.

Table with 13 columns: DENEBS, *VEGA, ARCTURUS, *REGULUS, PROCYON, *CAPELLA, Schedar. Rows 135-149.

Table with 13 columns: DENEBS, *VEGA, ARCTURUS, *REGULUS, PROCYON, *CAPELLA, Schedar. Rows 150-164.

Table with 13 columns: DENEBS, *VEGA, ARCTURUS, *REGULUS, POLLUX, *CAPELLA, Schedar. Rows 165-179.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 0-14. Stars: *POLLUX, CAPELLA, Hamal, *Alpheratz, DENEB, *VEGA, Alioth.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 15-29. Stars: Alioth, *POLLUX, CAPELLA, Hamal, *Alpheratz, DENEB, *VEGA.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 30-44. Stars: Alioth, *POLLUX, ALDEBARAN, *Hamal, Alpheratz, DENEB, *VEGA.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 45-59. Stars: Alioth, *POLLUX, ALDEBARAN, *Hamal, Alpheratz, DENEB, *VEGA.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 60-74. Stars: Alioth, *POLLUX, ALDEBARAN, *Hamal, Alpheratz, DENEB, *VEGA.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 75-89. Stars: Alioth, *REGULUS, PROCYON, *ALDEBARAN, Hamal, Alpheratz, *DENEB.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 90-104. Stars: Alioth, *REGULUS, PROCYON, BETELGEUSE, *ALDEBARAN, Hamal, *DENEB.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 105-119. Stars: Alioth, *REGULUS, PROCYON, BETELGEUSE, *CAPELLA, Hamal, *DENEB.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 120-134. Stars: *VEGA, ARCTURUS, *REGULUS, PROCYON, *CAPELLA, Schedar, DENEB.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 135-149. Stars: DENEB, *VEGA, ARCTURUS, *REGULUS, PROCYON, *CAPELLA, Schedar.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 150-164. Stars: DENEB, *VEGA, ARCTURUS, *REGULUS, PROCYON, *CAPELLA, Schedar.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 165-179. Stars: DENEB, *VEGA, ARCTURUS, *REGULUS, POLLUX, *CAPELLA, Schedar.

Table with 15 columns: LHA, Hc, Zn, *VEGA, ARCTURUS, *Denebola, REGULUS, POLLUX, *CAPELLA. Contains star data for various regions.

Table with 15 columns: DENEH, *VEGA, ARCTURUS, *Denebola, REGULUS, POLLUX, *CAPELLA. Contains star data for various regions.

Table with 15 columns: DENEH, *VEGA, ARCTURUS, *Denebola, REGULUS, POLLUX, *CAPELLA. Contains star data for various regions.

Table with 15 columns: *DENEH, VEGA, Rasalhague, *ARCTURUS, Denebola, Dubhe, *CAPELLA. Contains star data for various regions.

Table with 15 columns: Alpheratz, *DENEH, VEGA, Rasalhague, *ARCTURUS, Alioth, *CAPELLA. Contains star data for various regions.

Table with 15 columns: Alpheratz, *DENEH, ALTAIR, Rasalhague, *ARCTURUS, Alioth, *CAPELLA. Contains star data for various regions.

Table with 15 columns: *CAPELLA, Alpheratz, *DENEH, ALTAIR, Rasalhague, *ARCTURUS, Alioth. Contains star data for various regions.

Table with 15 columns: *CAPELLA, Alpheratz, Enif, *ALTAIR, VEGA, *ARCTURUS, Alioth. Contains star data for various regions.

Table with 15 columns: *CAPELLA, Alpheratz, Enif, *ALTAIR, VEGA, *ARCTURUS, Alioth. Contains star data for various regions.

Table with 15 columns: CAPELLA, *Hamal, Alpheratz, Enif, *ALTAIR, VEGA, *Alioth. Contains star data for various regions.

Table with 15 columns: CAPELLA, *Hamal, Alpheratz, Enif, *ALTAIR, VEGA, *Alioth. Contains star data for various regions.

Table with 15 columns: CAPELLA, ALDEBARAN, *Hamal, Alpheratz, *ALTAIR, VEGA, *Alioth. Contains star data for various regions.

Table with 14 columns (LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn) and 100 rows of celestial coordinates and star names like DENEBO, VEGETA, ARCTURUS, Denebola, REGULUS, POLLUX, CAPELLA.

Table with 14 columns (LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn) and 100 rows of celestial coordinates and star names like CAPELLA, Alpheratz, DENEBO, ALTAIR, RASALHAGUE, VEGETA, ARCTURUS, ALIOTH.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 0-14, containing star data for POLLUX, CAPELLA, Hamal, Alpheratz, DENEB, *VEGA, and Alioth.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 90-104, containing star data for Alioth, *REGULUS, PROCYON, BETELGEUSE, *ALDEBARAN, Hamal, and *DENEB.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 15-29, continuing star data for POLLUX, CAPELLA, Hamal, Alpheratz, DENEB, *VEGA, and Alioth.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 105-119, continuing star data for Alioth, *REGULUS, PROCYON, BETELGEUSE, *CAPELLA, Hamal, and *DENEB.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 30-44, containing star data for Alioth, *POLLUX, ALDEBARAN, *Hamal, Alpheratz, DENEB, *VEGA, and Schedar.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 120-134, continuing star data for *VEGA, ARCTURUS, *REGULUS, PROCYON, *CAPELLA, Schedar, and DENEB.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 45-59, containing star data for Alioth, *POLLUX, ALDEBARAN, *Hamal, Alpheratz, DENEB, *VEGA, and Schedar.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 135-149, continuing star data for DENEB, *VEGA, ARCTURUS, *REGULUS, PROCYON, *CAPELLA, and Schedar.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 60-74, containing star data for Alioth, *POLLUX, ALDEBARAN, *Hamal, Alpheratz, DENEB, *VEGA, and Schedar.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 150-164, continuing star data for DENEB, *VEGA, ARCTURUS, *REGULUS, PROCYON, *CAPELLA, and Schedar.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 75-89, containing star data for Alioth, *REGULUS, PROCYON, *ALDEBARAN, Hamal, Alpheratz, *DENEB, and Schedar.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 165-179, continuing star data for DENEB, *VEGA, ARCTURUS, *REGULUS, POLLUX, *CAPELLA, and Schedar.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 0-14 showing celestial coordinates for various stars like POLLUX, CAPELLA, Hamal, Alpheratz, DENEB, *VEGA, Alioth.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 15-29 showing celestial coordinates for various stars like Alioth, *POLLUX, CAPELLA, Hamal, Alpheratz, DENEB, *VEGA, Alioth.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 30-44 showing celestial coordinates for various stars like Alioth, *POLLUX, ALDEBARAN, *Hamal, Alpheratz, DENEB, *VEGA, Alioth.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 45-59 showing celestial coordinates for various stars like Alioth, *POLLUX, ALDEBARAN, *Hamal, Alpheratz, DENEB, *VEGA, Alioth.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 60-74 showing celestial coordinates for various stars like Alioth, *POLLUX, ALDEBARAN, *Hamal, Alpheratz, DENEB, *VEGA, Alioth.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 75-89 showing celestial coordinates for various stars like Alioth, *REGULUS, PROCYON, *ALDEBARAN, Hamal, Alpheratz, *DENEB, *VEGA.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 90-104 showing celestial coordinates for various stars like Alioth, *REGULUS, PROCYON, BETELGEUSE, *ALDEBARAN, Hamal, *DENEB.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 105-119 showing celestial coordinates for various stars like Alioth, *REGULUS, PROCYON, BETELGEUSE, *CAPELLA, Hamal, *DENEB.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 120-134 showing celestial coordinates for various stars like *VEGA, ARCTURUS, *REGULUS, PROCYON, *CAPELLA, Schedar, DENEB.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 135-149 showing celestial coordinates for various stars like DENEB, *VEGA, ARCTURUS, *REGULUS, PROCYON, *CAPELLA, Schedar.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 150-164 showing celestial coordinates for various stars like DENEB, *VEGA, ARCTURUS, *REGULUS, PROCYON, *CAPELLA, Schedar.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 165-179 showing celestial coordinates for various stars like DENEB, *VEGA, ARCTURUS, *REGULUS, POLLUX, *CAPELLA, Schedar.

Table with columns: LHA, Hc, Zn, *VEGA, ARCTURUS, *Denebola, REGULUS, POLLUX, *CAPELLA. Contains star data for the first 250 rows.

Table with columns: LHA, Hc, Zn, *CAPELLA, Alpheratz, *DENEBO, ALTAIR, ARCTURUS, Alioth. Contains star data for the second 250 rows.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 0-14, stars: *CAPELLA, ALDEBARAN, Hamal, *Alpheratz, ALTAIR, *VEGA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 15-29, stars: *CAPELLA, ALDEBARAN, Hamal, *Alpheratz, DENEB, *VEGA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 30-44, stars: *CAPELLA, ALDEBARAN, Hamal, *Alpheratz, DENEB, *VEGA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 45-59, stars: *Dubhe, POLLUX, BETELGEUSE, *ALDEBARAN, Hamal, Alpheratz, *DENEB.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 60-74, stars: *Dubhe, POLLUX, BETELGEUSE, *ALDEBARAN, Hamal, Alpheratz, *DENEB.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 75-89, stars: *Dubhe, REGULUS, PROCYON, *BETELGEUSE, ALDEBARAN, *Alpheratz, DENEB.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 90-104, stars: Dubhe, *REGULUS, PROCYON, BETELGEUSE, *ALDEBARAN, Mirfak, *DENEB.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 105-119, stars: Alioth, *REGULUS, PROCYON, BETELGEUSE, *ALDEBARAN, Mirfak, *DENEB.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 120-134, stars: *VEGA, ARCTURUS, *REGULUS, PROCYON, BETELGEUSE, *CAPELLA, DENEB.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 135-149, stars: DENEB, *VEGA, ARCTURUS, *REGULUS, PROCYON, Denebola, *REGULUS, POLLUX, *CAPELLA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 150-164, stars: DENEB, *VEGA, ARCTURUS, Denebola, *REGULUS, POLLUX, *CAPELLA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 165-179, stars: *DENEB, VEGA, ARCTURUS, *SPICA, REGULUS, *POLLUX, CAPELLA.

Table with 48 columns (LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn) and 48 rows. The table is organized into a grid of 12 blocks, each containing 4 columns of star data. Each block starts with a header row identifying the constellation (e.g., *DENEBO, *VEGA, *ARCTURUS) and the star name. The rows contain numerical data for each star, representing its position and magnitude at different times of the year. The columns are labeled with constellation names and star names, and the rows are labeled with constellation names and star names. The data is presented in a structured, tabular format.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, CAPELLA, ALDEBARAN, Hamal, Alpheratz, ALTAIR, and VEGA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, REGULUS, PROCYON, SIRIUS, ALDEBARAN, Mirfak, and DENEBO.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, CAPELLA, ALDEBARAN, Hamal, Alpheratz, DENEBO, and VEGA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, REGULUS, PROCYON, BETELGEUSE, ALDEBARAN, Mirfak, and DENEBO.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, CAPELLA, ALDEBARAN, Hamal, Alpheratz, DENEBO, and VEGA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, KOCBAB, ARCTURUS, REGULUS, PROCYON, BETELGEUSE, CAPELLA, and DENEBO.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, POLLUX, BETELGEUSE, ALDEBARAN, Hamal, Alpheratz, DENEBO, and VEGA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, REGULUS, ARCTURUS, Denebola, REGULUS, POLLUX, and CAPELLA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, POLLUX, BETELGEUSE, ALDEBARAN, Hamal, Alpheratz, DENEBO, and VEGA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, REGULUS, ARCTURUS, Denebola, REGULUS, POLLUX, and CAPELLA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, REGULUS, PROCYON, SIRIUS, ALDEBARAN, Alpheratz, DENEBO, and VEGA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, REGULUS, ARCTURUS, SPICA, REGULUS, POLLUX, and CAPELLA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 0-14, stars include Dubhe, CAPELLA, ALDEBARAN, Hamal, Alpheratz, ALTAIR, and VEGA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 15-29, stars include Dubhe, CAPELLA, ALDEBARAN, Hamal, Alpheratz, DENEb, and VEGA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 30-44, stars include Dubhe, CAPELLA, ALDEBARAN, Hamal, Alpheratz, DENEb, and VEGA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 45-59, stars include Dubhe, POLLUX, BETELGEUSE, ALDEBARAN, Hamal, Alpheratz, and DENEb.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 60-74, stars include Dubhe, POLLUX, BETELGEUSE, ALDEBARAN, Hamal, Alpheratz, and DENEb.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 75-89, stars include Dubhe, REGULUS, PROCYON, SIRIUS, ALDEBARAN, Alpheratz, DENEb, and VEGA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 90-104, stars include Dubhe, REGULUS, PROCYON, SIRIUS, ALDEBARAN, Mirfak, and DENEb.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 105-119, stars include Alioth, REGULUS, PROCYON, BETELGEUSE, ALDEBARAN, Mirfak, and DENEb.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 120-134, stars include Alioth, Kochab, ARCTURUS, REGULUS, PROCYON, BETELGEUSE, CAPELLA, and DENEb.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 135-149, stars include DENEb, VEGA, ARCTURUS, REGULUS, PROCYON, Denebola, REGULUS, POLLUX, and CAPELLA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 150-164, stars include DENEb, VEGA, ARCTURUS, Denebola, REGULUS, POLLUX, and CAPELLA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 165-179, stars include DENEb, VEGA, ARCTURUS, SPICA, REGULUS, POLLUX, and CAPELLA.

Table with columns: LHA, Hc, ZN, Vega, Hc, ZN, Arcturus, *SPICA, Regulus, *POLLUX, Capella. Contains star data for the first section.

Table with columns: *DENEBS, Vega, Rasalhague, *ARCTURUS, Regulus, *POLLUX, Capella. Contains star data for the second section.

Table with columns: *DENEBS, Vega, Rasalhague, *ARCTURUS, Regulus, *POLLUX, Capella. Contains star data for the third section.

Table with columns: DENEBS, *VEGA, Rasalhague, *ARCTURUS, Denebola, Dubhe, *CAPELLA. Contains star data for the fourth section.

Table with columns: DENEBS, *VEGA, Rasalhague, *ARCTURUS, Denebola, Dubhe, *CAPELLA. Contains star data for the fifth section.

Table with columns: Schedar, DENEBS, *ALTAIR, Rasalhague, *ARCTURUS, Dubhe, *CAPELLA. Contains star data for the sixth section.

Table with columns: *CAPELLA, Alpheratz, *ALTAIR, Rasalhague, *ARCTURUS, Alkaid, Dubhe. Contains star data for the seventh section.

Table with columns: *CAPELLA, Alpheratz, *ALTAIR, Rasalhague, *ARCTURUS, Alkaid, Dubhe. Contains star data for the eighth section.

Table with columns: CAPELLA, *Alpheratz, Enif, ALTAIR, *VEGA, Alphecca, *Dubhe. Contains star data for the ninth section.

Table with columns: CAPELLA, *Hamal, Alpheratz, Enif, *ALTAIR, Vega, *Alloth. Contains star data for the tenth section.

Table with columns: CAPELLA, *Hamal, Alpheratz, Enif, *ALTAIR, Vega, *Alloth. Contains star data for the eleventh section.

Table with columns: CAPELLA, ALDEBARAN, *Hamal, Alpheratz, *ALTAIR, Vega, *Alloth. Contains star data for the twelfth section.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, CAPELLA, ALDEBARAN, Hamal, Alpheratz, ALTAIR, and VEGA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, REGULUS, PROCYON, SIRIUS, ALDEBARAN, Mirfak, and DENEK.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, CAPELLA, ALDEBARAN, Hamal, Alpheratz, DENEK, and VEGA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Alioth, REGULUS, PROCYON, BETELGEUSE, ALDEBARAN, Mirfak, and DENEK.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, CAPELLA, ALDEBARAN, Hamal, Alpheratz, DENEK, and VEGA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Kochab, ARCTURUS, REGULUS, PROCYON, BETELGEUSE, CAPELLA, and DENEK.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, POLLUX, BETELGEUSE, ALDEBARAN, Hamal, Alpheratz, DENEK, and VEGA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like DENEK, VEGA, ARCTURUS, REGULUS, PROCYON, BETELGEUSE, CAPELLA, and DENEK.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, POLLUX, BETELGEUSE, ALDEBARAN, Hamal, Alpheratz, DENEK, and VEGA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like DENEK, VEGA, ARCTURUS, Denebola, REGULUS, POLLUX, CAPELLA, and DENEK.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, REGULUS, PROCYON, SIRIUS, ALDEBARAN, Alpheratz, DENEK, and VEGA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like DENEK, VEGA, ARCTURUS, SPICA, REGULUS, POLLUX, CAPELLA, and DENEK.

Table with 13 columns: LHA, Hc, Zn, Vega, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star data for DENEB, ARCTURUS, *SPICA, REGULUS, *POLLUX, and CAPELLA.

Table with 13 columns: LHA, Hc, Zn, Vega, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star data for DENEB, RASALHAGUE, *ARCTURUS, REGULUS, *POLLUX, and CAPELLA.

Table with 13 columns: DENEBA, *VEGA, RASALHAGUE, *ARCTURUS, DENEBOIA, DUBHE, *CAPELLA. Rows include star data for DENEBA, *VEGA, RASALHAGUE, *ARCTURUS, DENEBOIA, DUBHE, and *CAPELLA.

Table with 13 columns: DENEBA, *VEGA, RASALHAGUE, *ARCTURUS, DENEBOIA, DUBHE, *CAPELLA. Rows include star data for DENEBA, *VEGA, RASALHAGUE, *ARCTURUS, DENEBOIA, DUBHE, and *CAPELLA.

Table with 13 columns: Schedar, DENEBA, *ALTAIR, RASALHAGUE, *ARCTURUS, DUBHE, *CAPELLA. Rows include star data for Schedar, DENEBA, *ALTAIR, RASALHAGUE, *ARCTURUS, DUBHE, and *CAPELLA.

Table with 13 columns: LHA, Hc, Zn, CAPELLA, ALPHERTAZ, *ALTAIR, RASALHAGUE, *ARCTURUS, ALKALID, DUBHE. Rows include star data for CAPELLA, ALPHERTAZ, *ALTAIR, RASALHAGUE, *ARCTURUS, ALKALID, and DUBHE.

Table with 13 columns: CAPELLA, *ALPHERTAZ, ENIF, ALTAIR, *VEGA, ALPHECCA, *DUBHE. Rows include star data for CAPELLA, *ALPHERTAZ, ENIF, ALTAIR, *VEGA, ALPHECCA, and *DUBHE.

Table with 13 columns: CAPELLA, *HAMAL, ALPHERTAZ, ENIF, *ALTAIR, VEGA, *ALIOTH. Rows include star data for CAPELLA, *HAMAL, ALPHERTAZ, ENIF, *ALTAIR, VEGA, and *ALIOTH.

Table with 13 columns: CAPELLA, *HAMAL, ALPHERTAZ, ENIF, *ALTAIR, VEGA, *ALIOTH. Rows include star data for CAPELLA, *HAMAL, ALPHERTAZ, ENIF, *ALTAIR, VEGA, and *ALIOTH.

Table with 13 columns: CAPELLA, ALDEBARAN, *HAMAL, ALPHERTAZ, *ALTAIR, VEGA, *ALIOTH. Rows include star data for CAPELLA, ALDEBARAN, *HAMAL, ALPHERTAZ, *ALTAIR, VEGA, and *ALIOTH.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *DENEB, VEGA, ARCTURUS, *SPICA, *POLLUX, *CAPPELLA, Alkaid, Dubhe.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *CAPPELLA, Alpheratz, *ALTAIR, Rasalhague, *ARCTURUS, Alkaid, Dubhe.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *DENEB, VEGA, Rasalhague, *ARCTURUS, REGULUS, *POLLUX, CAPELLA.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *CAPPELLA, Alpheratz, *ALTAIR, Rasalhague, *ARCTURUS, Alkaid, Dubhe.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *DENEB, VEGA, Rasalhague, *ARCTURUS, REGULUS, *POLLUX, CAPELLA.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like CAPELLA, *Alpheratz, Enif, ALTAIR, *VEGA, Alphecca, *Dubhe.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like DENEB, *VEGA, Rasalhague, *ARCTURUS, Denebola, Dubhe, *CAPPELLA.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like CAPELLA, *Hamal, Alpheratz, Enif, *ALTAIR, VEGA, *Alioth.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like DENEB, *VEGA, Rasalhague, *ARCTURUS, Denebola, Dubhe, *CAPPELLA.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like CAPELLA, *Hamal, Alpheratz, Enif, *ALTAIR, VEGA, *Alioth.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Schedar, DENEB, *ALTAIR, Rasalhague, *ARCTURUS, Dubhe, *CAPPELLA.

Table with columns LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like CAPELLA, ALDEBARAN, *Hamal, Alpheratz, *ALTAIR, VEGA, *Alioth.

Table with columns: LH# (LHA), Hc, Zn, and star names (DENE, VE, ARCTURUS, etc.) and their corresponding coordinates.

Table with columns: LH# (LHA), Hc, Zn, and star names (*MIRAF, *ALTAIR, RASALHAGUE, etc.) and their corresponding coordinates.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 0-14. Stars include CAPELLA, ALDEBARAN, Hamal, Alpheratz, ALTAIR, *VEGA, Alioth.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 15-29. Stars include Dubhe, *CAPELLA, ALDEBARAN, Hamal, *Alpheratz, DENEb, *VEGA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 30-44. Stars include Dubhe, *POLLUX, BETALEUSE, RIGEL, *Hamal, Alpheratz, *DENEb.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 45-59. Stars include Dubhe, *POLLUX, BETALEUSE, RIGEL, *Hamal, Alpheratz, *DENEb.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 60-74. Stars include *Dubhe, POLLUX, SIRIUS, *RIGEL, Hamal, *Alpheratz, DENEb, *VEGA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 75-89. Stars include Dubhe, *REGULUS, PROCYON, SIRIUS, *RIGEL, Hamal, *DENEb.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 90-104. Stars include *Dubhe, REGULUS, PROCYON, *SIRIUS, RIGEL, *Hamal, Schedar.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 105-119. Stars include *Dubhe, Denebola, REGULUS, *SIRIUS, RIGEL, ALDEBARAN, *MIRfak.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 120-134. Stars include Kochab, *ARCTURUS, REGULUS, *SIRIUS, BETALEUSE, CAPELLA, *Schedar.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 135-149. Stars include Kochab, *ARCTURUS, REGULUS, *POLLUX, BETALEUSE, CAPELLA, *Schedar.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 150-164. Stars include *VEGA, ARCTURUS, SPICA, *REGULUS, POLLUX, *CAPELLA, Schedar.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 165-179. Stars include DENEb, *VEGA, ARCTURUS, *SPICA, REGULUS, POLLUX, *CAPELLA.

Table with 13 columns: LHA, Hc, Zn, *DENE, VE, ARCTURUS, *SPICA, REGULUS, POLLUX, *CAPELLA. Contains star coordinates and magnitudes for the first half of the sky.

Table with 13 columns: LHA, Hc, Zn, *Mirfak, Alpheratz, *ALTAIR, Rasalhague, *ARCTURUS, Alkaid, Kochab. Contains star coordinates and magnitudes for the second half of the sky.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 0-14, containing star data for Capella, Alpheratz, Vega, and others.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 90-104, containing star data for Dubhe, Regulus, Sirius, and others.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 15-29, continuing star data from the previous table.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 105-119, continuing star data from the previous table.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 30-44, continuing star data from the previous table.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 120-134, continuing star data from the previous table.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 45-59, continuing star data from the previous table.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 135-149, continuing star data from the previous table.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 60-74, continuing star data from the previous table.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 150-164, continuing star data from the previous table.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 75-89, continuing star data from the previous table.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 165-179, continuing star data from the previous table.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like DENEBO, VEGETA, ARCTURUS, etc., and their corresponding coordinates.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *Mirafak, Alpheratz, *ALTAIR, etc., and their corresponding coordinates.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 0-14. Stars: *CEPHELA, ALDEBARAN, Hamal, *Alpheratz, ALTAIR, *VEGA, Alioth.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 15-29. Stars: *DUBHE, *CEPHELA, ALDEBARAN, Hamal, *Alpheratz, DENEK, *VEGA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 30-44. Stars: *DUBHE, *POLLUX, BETALEUSE, RIGEL, *Hamal, Alpheratz, *DENEK.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 45-59. Stars: *DUBHE, *POLLUX, BETALEUSE, RIGEL, *Hamal, Alpheratz, *DENEK.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 60-74. Stars: *DUBHE, POLLUX, SIRIUS, *RIGEL, Hamal, *Alpheratz, DENEK.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 75-89. Stars: *DUBHE, *REGULUS, PROCYON, SIRIUS, *RIGEL, Hamal, *DENEK.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 90-104. Stars: *DUBHE, REGULUS, PROCYON, *SIRIUS, RIGEL, *Hamal, Schedar.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 105-119. Stars: *DUBHE, Denebola, REGULUS, *SIRIUS, RIGEL, ALDEBARAN, *MIRFAK.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 120-134. Stars: *DUBHE, Kochab, *ARCTURUS, REGULUS, *SIRIUS, BETALEUSE, CEPHELA, *Schedar.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 135-149. Stars: *DUBHE, Kochab, *ARCTURUS, REGULUS, *POLLUX, BETALEUSE, CEPHELA, *Schedar.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 150-164. Stars: *DUBHE, Kochab, ARCTURUS, *SPICA, REGULUS, *POLLUX, CAPELLA, Schedar.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 165-179. Stars: *DUBHE, DENEK, *VEGA, ARCTURUS, *SPICA, REGULUS, POLLUX, *CAPELLA.

Lat 51 N

Table with columns LHA, Hc, Zn and star names: DENEb, *VEGA, ARCTURUS, *SPICA, REGULUS, POLLUX, *CAPELLA.

Table with columns LHA, Hc, Zn and star names: *Mirfak, Alpheratz, *ALTAIR, Rasalhague, *ARCTURUS, Alkaid, Kochab.

Lat 51 N

Table with columns *DENEb, VEGA, Rasalhague, *ARCTURUS, REGULUS, *POLLUX, CAPELLA.

Table with columns *Mirfak, Alpheratz, *ALTAIR, Rasalhague, *ARCTURUS, Alkaid, Kochab.

Table with columns *DENEb, VEGA, Rasalhague, *ARCTURUS, REGULUS, *POLLUX, CAPELLA.

Table with columns *CAPELLA, Alpheratz, *Enif, ALTAIR, Rasalhague, *Alphecca, Alioth.

Table with columns *Schedar, *DENEb, VEGA, *Rasalhague, ARCTURUS, *Denebola, Dubhe, CAPELLA, *Hamal, Alpheratz, Enif, *ALTAIR, VEGA, *Alioth.

Table with columns *DENEb, VEGA, *Rasalhague, ARCTURUS, *Denebola, Dubhe, CAPELLA, *Hamal, Alpheratz, Enif, *ALTAIR, VEGA, *Alioth.

Table with columns *Schedar, DENEb, VEGA, *Rasalhague, ARCTURUS, *Alkaid, Kochab, *CAPELLA, ALDEBARAN, *Diphda, Enif, ALTAIR, *VEGA, Alioth.

Table with columns *Schedar, DENEb, VEGA, *Rasalhague, ARCTURUS, *Alkaid, Kochab, *CAPELLA, ALDEBARAN, *Diphda, Enif, ALTAIR, *VEGA, Alioth.

Table with columns *Schedar, DENEb, VEGA, *Rasalhague, ARCTURUS, *Alkaid, Kochab, *CAPELLA, ALDEBARAN, *Diphda, Enif, ALTAIR, *VEGA, Alioth.

Table with columns *Schedar, DENEb, VEGA, *Rasalhague, ARCTURUS, *Alkaid, Kochab, *CAPELLA, ALDEBARAN, *Diphda, Enif, ALTAIR, *VEGA, Alioth.

Lat 50 N

Table with columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn and rows of star coordinates. Stars listed include DENEBO, VEIGA, ARCTURUS, *SPICA, REGULUS, *POLLUX, CAPELLA, *MIRFAK, ALPHERTZ, *ALTAIR, RASALHAGUE, *ARCTURUS, ALKAIID, KOCHAB.

Lat 50 N

Table with columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn and rows of star coordinates. Stars listed include *MIRFAK, ALPHERTZ, *ALTAIR, RASALHAGUE, *ARCTURUS, ALKAIID, KOCHAB, CAPELLA, *HAMAL, ALPHERTZ, ENIF, *ALTAIR, VEIGA, *Kochab, *CAPELLA, *HAMAL, DIPHA, ENIF, *ALTAIR, VEIGA, *Kochab.

Table with columns for LHA, Hc, Zn, and star names like CAPELLA, ALDEBARAN, Hamal, Diphda, ALTAIR, VEGA, Kochab, etc.

Table with columns for LHA, Hc, Zn, and star names like DUBHE, Denebola, REGULUS, SIRIUS, RIGEL, ALDEBARAN, Mirfak, etc.

Table with 13 columns: LHA, Hc, Zn, Vega, Hc, Zn, Spica, Hc, Zn, Regulus, Hc, Zn, Pollux, Hc, Zn, Capella. Rows 180-194.

Table with 13 columns: *DENE, Vega, Rasalhague, *ARCTURUS, Regulus, *POLLUX, Capella. Rows 195-209.

Table with 13 columns: DENE, *VEGA, Rasalhague, *ARCTURUS, Denebola, Regulus, *Dubhe, Capella, *Alphertz, Enif, ALTAIR, *Rasalhague, Alpha, *Kochab. Rows 210-224.

Table with 13 columns: DENE, *VEGA, Rasalhague, ANTARES, *ARCTURUS, Denebola, *Dubhe, Capella, *Hamal, Alphertz, Enif, *ALTAIR, Vega, *Kochab. Rows 225-239.

Table with 13 columns: *DENE, ALTAIR, Rasalhague, *ANTARES, ARCTURUS, Denebola, *Dubhe, Capella, *Hamal, Diphda, Enif, *ALTAIR, Vega, *Kochab. Rows 240-254.

Table with 13 columns: *Schedar, DENE, ALTAIR, *Rasalhague, ARCTURUS, *Alkaid, Kochab, *CAPPELLA, ALDEBARAN, *Diphda, Enif, ALTAIR, *VEGA, Kochab. Rows 255-269.

Table with 13 columns: *Mirfak, Alphertz, *ALTAIR, Rasalhague, *ARCTURUS, Alkaid, Kochab. Rows 270-284.

Table with 13 columns: *Mirfak, Alphertz, *ALTAIR, Rasalhague, *ARCTURUS, Alkaid, Kochab. Rows 285-299.

Table with 13 columns: CAPPELLA, *Alphertz, Enif, ALTAIR, *Rasalhague, Alpha, *Kochab. Rows 300-314.

Table with 13 columns: CAPPELLA, *Hamal, Alphertz, Enif, *ALTAIR, Vega, *Kochab. Rows 315-329.

Table with 13 columns: CAPPELLA, *Hamal, Diphda, Enif, *ALTAIR, Vega, *Kochab. Rows 330-344.

Table with 13 columns: *CAPPELLA, ALDEBARAN, *Diphda, Enif, ALTAIR, *VEGA, Kochab. Rows 345-359.

Table with columns: LHA, Hc, Zn, *DENEBO, VEGA, ARCTURUS, *SPICA, REGULUS, *POLLUX, CAPELLA. Rows contain astronomical data for various stars.

Table with columns: LHA, Hc, Zn, *Mirfak, Alpheratz, *ALTAIR, Rasalhague, *ARCTURUS, Alkaid, Kochab. Rows contain astronomical data for various stars.

Table of celestial coordinates for the first half of the sky (Lat 47 N). It consists of two main sections. The first section lists stars with their RA, Dec, and magnitude in a tabular format. The second section lists constellations: CAPELLA, ALDEBARAN, Hamal, Diphda, Alpheratz, DENEB, and Kochab, with their respective star names and magnitudes.

Table of celestial coordinates for the second half of the sky (Lat 47 N). It consists of two main sections. The first section lists stars with their RA, Dec, and magnitude in a tabular format. The second section lists constellations: Dubhe, Denebola, REGULUS, SIRIUS, RIGEL, ALDEBARAN, Mirfak, *Kochab, ARCTURUS, Denebola, *REGULUS, SIRIUS, RIGEL, *ALDEBARAN, CAPELLA, *Kochab, ARCTURUS, Denebola, *SPICA, REGULUS, PROCYON, *BETELGEUSE, CAPELLA, *VEGA, ARCTURUS, *SPICA, REGULUS, PROCYON, *POLLUX, CAPELLA.

Table with columns LHA, Hc, Zn, and star names (DENEBO, VEIGA, ARCTURUS, etc.) and their corresponding coordinates.

Table with columns LHA, Hc, Zn, and star names (MIRFAK, ALPHERTZ, ALTAIR, etc.) and their corresponding coordinates.

Table with 12 columns: LHA, Hc, Zn, *CAPELLA, ALDEBARAN, Hamal, *Diphda, ALTAIR, *VEGA, Kochab, *Dubhe, REGULUS, PROCYON, *SIRIUS, RIGEL, ALDEBARAN, *Mirfak. Rows 0-14.

Table with 12 columns: LHA, Hc, Zn, *Dubhe, REGULUS, PROCYON, *SIRIUS, RIGEL, ALDEBARAN, *Mirfak. Rows 15-29.

Table with 12 columns: LHA, Hc, Zn, *CAPELLA, ALDEBARAN, Hamal, *Diphda, Enif, *DENEBO, Kochab, *Dubhe, Denebola, REGULUS, *SIRIUS, RIGEL, ALDEBARAN, *Mirfak. Rows 30-44.

Table with 12 columns: LHA, Hc, Zn, *Kochab, Denebola, *REGULUS, SIRIUS, RIGEL, *ALDEBARAN, CAPELLA. Rows 45-59.

Table with 12 columns: CAPELLA, *BETELGEUSE, RIGEL, Hamal, *Alpheratz, DENEBO, *Kochab. Rows 60-74.

Table with 12 columns: *Kochab, Denebola, *REGULUS, SIRIUS, RIGEL, *ALDEBARAN, CAPELLA. Rows 75-89.

Table with 12 columns: *Dubhe, POLLUX, *BETELGEUSE, *RIGEL, Hamal, *Alpheratz, DENEBO. Rows 90-104.

Table with 12 columns: *Kochab, ARCTURUS, Denebola, *REGULUS, SIRIUS, *BETELGEUSE, *CAPELLA. Rows 105-119.

Table with 12 columns: *Dubhe, POLLUX, SIRIUS, *RIGEL, Hamal, *Alpheratz, DENEBO. Rows 120-134.

Table with 12 columns: *Kochab, ARCTURUS, *SPICA, REGULUS, PROCYON, *BETELGEUSE, CAPELLA. Rows 135-149.

Table with 12 columns: *Dubhe, REGULUS, PROCYON, *SIRIUS, RIGEL, *Hamal, Schedar, *VEGA, ARCTURUS, *SPICA, REGULUS, PROCYON, *POLLUX, CAPELLA. Rows 150-164.

Table with 12 columns: *Kochab, ARCTURUS, *SPICA, REGULUS, PROCYON, *BETELGEUSE, CAPELLA. Rows 165-179.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 0-14 with star names like CAPELLA, ALDEBARAN, Hamal, Diphda, ALTAIR, VEGA, Kochab.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 15-29 with star names CAPELLA, BETELGEUSE, RIGEL, Diphda, Enif, DENEBO, Kochab.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 30-44 with star names CAPELLA, BETELGEUSE, RIGEL, Diphda, Alpheratz, DENEBO, Kochab.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 45-59 with star names Dubhe, POLLUX, BETELGEUSE, RIGEL, Diphda, Alpheratz, DENEBO.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 60-74 with star names Dubhe, POLLUX, PROCYON, SIRIUS, RIGEL, Hamal, DENEBO.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 75-89 with star names Dubhe, REGULUS, PROCYON, SIRIUS, RIGEL, Hamal, Schedar.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 90-104 with star names Dubhe, REGULUS, PROCYON, SIRIUS, RIGEL, ALDEBARAN, Mirfak.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 105-119 with star names Dubhe, Denebola, REGULUS, SIRIUS, RIGEL, ALDEBARAN, Mirfak.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 120-134 with star names Kochab, Denebola, REGULUS, SIRIUS, RIGEL, ALDEBARAN, CAPELLA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 135-149 with star names Kochab, ARCTURUS, Denebola, REGULUS, SIRIUS, BETELGEUSE, CAPELLA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 150-164 with star names Kochab, ARCTURUS, SPICA, REGULUS, PROCYON, POLLUX, CAPELLA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 165-179 with star names Kochab, ARCTURUS, SPICA, REGULUS, PROCYON, POLLUX, CAPELLA.

Table with 10 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows contain star data for constellations: Kochab, *VEGA, ARCTURUS, *SPICA, REGULUS, *POLLUX, CAPELLA, *ALPHERTZ, ALTAIR, Nunki, *ANTARES, ARCTURUS, *Alkaid, Kochab, *DENEB, VEGA, Rasalhague, ANTARES, *ARCTURUS, REGULUS, *Dubhe, *CAPPELLA, *Alphertz, Enif, *ALTAIR, Rasalhague, VEGA, *Kochab, *DENEB, ALTAIR, Rasalhague, *ANTARES, ARCTURUS, Denebola, *Dubhe, *CAPPELLA, Hamal, Diphda, *FOMALHAUT, ALTAIR, *VEGA, Kochab, *DENEB, ALTAIR, Nunki, *ANTARES, ARCTURUS, *Alkaid, Kochab.

Table with 10 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows contain star data for constellations: *Alphertz, ALTAIR, Nunki, *ANTARES, ARCTURUS, *Alkaid, Kochab, *Mirfak, Alpheratz, *ALTAIR, Rasalhague, *ARCTURUS, Alkaid, Kochab, Mirfak, *Alphertz, Enif, *ALTAIR, Rasalhague, Alpheratz, *Kochab, *CAPPELLA, Hamal, Diphda, *FOMALHAUT, ALTAIR, *VEGA, Kochab, *CAPPELLA, ALDEBARAN, Diphda, *FOMALHAUT, ALTAIR, *VEGA, Kochab, *CAPPELLA, ALDEBARAN, Diphda, *FOMALHAUT, ALTAIR, *VEGA, Kochab.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 0-29. Stars: *CAPELLA, ALDEBARAN, *Diphda, FOMALHAUT, ALTAIR, *VEGA, Kochab.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 30-49. Stars: *CAPELLA, BETELGEUSE, RIGEL, *Diphda, Enif, *DENEBO, Kochab.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 50-69. Stars: *CAPELLA, BETELGEUSE, RIGEL, *Diphda, Alpheratz, *DENEBO, Kochab.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 70-89. Stars: *Dubhe, POLLUX, BETELGEUSE, *RIGEL, Diphda, *Alpheratz, DENEBO.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 90-109. Stars: *Dubhe, POLLUX, PROCYON, *SIRIUS, RIGEL, *Hamal, DENEBO.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 110-129. Stars: *Dubhe, REGULUS, PROCYON, *SIRIUS, RIGEL, *Hamal, Schedar.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 0-29. Stars: *Dubhe, REGULUS, PROCYON, *SIRIUS, RIGEL, ALDEBARAN, *Mirfak.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 30-49. Stars: Dubhe, *Denebola, REGULUS, *SIRIUS, RIGEL, ALDEBARAN, *Mirfak.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 50-69. Stars: *Kochab, Denebola, *REGULUS, SIRIUS, RIGEL, *ALDEBARAN, CAPELLA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 70-89. Stars: *Kochab, ARCTURUS, Denebola, *REGULUS, SIRIUS, RIGEL, *ALDEBARAN, CAPELLA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 90-109. Stars: *Kochab, ARCTURUS, *SPICA, REGULUS, PROCYON, *POLLUX, CAPELLA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 110-129. Stars: *Kochab, ARCTURUS, *SPICA, REGULUS, PROCYON, *POLLUX, CAPELLA.

Table with columns LHA, Hc, Zn and rows of star data including names like CAPELLA, ALDEBARAN, *Diphda, FOMALHAUT, ALTAIR, *VEGA, Kochab, *Dubhe, REGULUS, PROCYON, *SIRIUS, RIGEL, ALDEBARAN, *MIRFAK.

Table with columns LHA, Hc, Zn and rows of star data including names like *Dubhe, REGULUS, PROCYON, *SIRIUS, RIGEL, ALDEBARAN, *MIRFAK, *Kochab, Denebola, *REGULUS, *SIRIUS, RIGEL, *ALDEBARAN, CAPELLA.

Table with 12 columns: LHA, Hc, Zn, *CAPELLA, *ALDEBARAN, *Diphda, FOMALHAUT, ALTAIR, *VEGA, Kochab. Rows 0-59 and 60-99.

Table with 12 columns: LHA, Hc, Zn, *Dubhe, *REGULUS, PROCYON, *SIRIUS, RIGEL, ALDEBARAN, *Mirfak, *Denebola, *REGULUS, *SIRIUS, RIGEL, ALDEBARAN, *Mirfak. Rows 0-59 and 60-99.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Kochab, VEGA, ARCTURUS, SPICA, REGULUS, POLLUX, CAPELLA, DENEBO, ALTAIR, FOMALHAUT, etc.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Alpheratz, ALTAIR, Nunki, ANTARES, ARCTURUS, Alkaid, Kochab, Mirfak, Alpheratz, ALTAIR, Rasalhague, etc.

Table with columns LHA, Hc, Zn, and star names: *CAPELLA, ALDEBARAN, *Diphda, FOMALHAUT, ALTAIR, *VEGA, Kochab. Contains 14 rows of star data.

Table with columns LHA, Hc, Zn, and star names: *CAPELLA, BETELGEUSE, RIGEL, *Diphda, Enif, *DENEBO, Kochab. Contains 14 rows of star data.

Table with columns LHA, Hc, Zn, and star names: *CAPELLA, BETELGEUSE, RIGEL, *Diphda, Alpheratz, *DENEBO, Kochab. Contains 14 rows of star data.

Table with columns LHA, Hc, Zn, and star names: *Dubhe, POLLUX, SIRIUS, *RIGEL, Diphda, *Alpheratz, DENEBO. Contains 14 rows of star data.

Table with columns LHA, Hc, Zn, and star names: *Dubhe, POLLUX, PROCYON, *SIRIUS, RIGEL, *Hamal, Sedar. Contains 14 rows of star data.

Table with columns LHA, Hc, Zn, and star names: *Dubhe, POLLUX, PROCYON, *SIRIUS, RIGEL, *Hamal, Sedar. Contains 14 rows of star data.

Table with columns LHA, Hc, Zn, and star names: *Dubhe, REGULUS, PROCYON, *SIRIUS, RIGEL, ALDEBARAN, *MIRFAK. Contains 14 rows of star data.

Table with columns LHA, Hc, Zn, and star names: *Kochab, Denebola, *REGULUS, SIRIUS, RIGEL, *ALDEBARAN, Mirfak. Contains 14 rows of star data.

Table with columns LHA, Hc, Zn, and star names: *Kochab, Denebola, *REGULUS, SIRIUS, RIGEL, *ALDEBARAN, CAPELLA. Contains 14 rows of star data.

Table with columns LHA, Hc, Zn, and star names: *Kochab, ARCTURUS, SPICA, REGULUS, *SIRIUS, BETELGEUSE, *CAPELLA. Contains 14 rows of star data.

Table with columns LHA, Hc, Zn, and star names: *Kochab, ARCTURUS, *SPICA, REGULUS, PROCYON, *POLLUX, CAPELLA. Contains 14 rows of star data.

Table with columns LHA, Hc, Zn, and star names: *Kochab, ARCTURUS, *SPICA, REGULUS, PROCYON, *POLLUX, CAPELLA. Contains 14 rows of star data.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *VEGA, *Alphecca, ARCTURUS, *SPICA, REGULUS, *POLLUX, CAPELLA, DENEBO, *VEGA, ARCTURUS, *SPICA, REGULUS, *POLLUX, Dubhe, and *DENEBO, *VEGA, ARCTURUS, *ANTARES, *SPICA, REGULUS, *Dubhe.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *Alpheratz, ALTAIR, Nunki, *ANTARES, ARCTURUS, *Alkaid, Kochab, *Alpheratz, Enif, ALTAIR, *Rasalhague, ARCTURUS, Alkaid, *Kochab, *Mirfak, Alpheratz, *Enif, ALTAIR, Rasalhague, *Alphecca, Kochab, *Mirfak, Hamal, Diphda, *FOMALHAUT, ALTAIR, *VEGA, Kochab, *CAPELLA, Hamal, Diphda, *FOMALHAUT, ALTAIR, *VEGA, Kochab, *CAPELLA, ALDEBARAN, Diphda, *FOMALHAUT, ALTAIR, *VEGA, Kochab.

Table with 13 columns: LHA, *CAPELLA, Hc, Zn, *Diphda, FOMALHAUT, ALTAIR, *VEGA, Kochab. Rows 0-14.

Table with 13 columns: *CAPELLA, BETELGEUSE, RIGEL, *Diphda, Enif, *DENEK, Kochab. Rows 15-29.

Table with 13 columns: *CAPELLA, BETELGEUSE, RIGEL, *Diphda, Alpheratz, *DENEK, Kochab. Rows 30-44.

Table with 13 columns: *Dubhe, POLLUX, SIRIUS, *RIGEL, Diphda, *Alpheratz, DENEK. Rows 45-59.

Table with 13 columns: *Dubhe, POLLUX, PROCYON, *SIRIUS, RIGEL, *Hamal, Schedar. Rows 60-74.

Table with 13 columns: *Dubhe, POLLUX, PROCYON, *SIRIUS, RIGEL, *Hamal, Schedar. Rows 75-89.

Table with 13 columns: *Dubhe, REGULUS, PROCYON, *SIRIUS, RIGEL, *ALDEBARAN, *MIRKAF. Rows 90-104.

Table with 13 columns: *Kochab, Denebola, *REGULUS, SIRIUS, RIGEL, *ALDEBARAN, CAPELLA. Rows 105-119.

Table with 13 columns: *Kochab, Denebola, *REGULUS, SIRIUS, RIGEL, *ALDEBARAN, CAPELLA. Rows 120-134.

Table with 13 columns: *Kochab, ARCTURUS, SPICA, REGULUS, *SIRIUS, BETELGEUSE, *CAPELLA. Rows 135-149.

Table with 13 columns: *Kochab, ARCTURUS, *SPICA, REGULUS, PROCYON, *POLLUX, CAPELLA. Rows 150-164.

Table with 13 columns: *Kochab, ARCTURUS, *SPICA, REGULUS, PROCYON, *POLLUX, CAPELLA. Rows 165-179.

Table with columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *VEGA, Alphaeca, ARCTURUS, *SPICA, REGULUS, *POLLUX, CAPELLA, DENEBA, *VEGA, Alphaeca, *SPICA, REGULUS, *POLLUX, Dubbe, and *DENEBA, ALTAIR, Nunki, *ANTARES, ARCTURUS, *Alkaid, Kochab, *CAPELLA, Hamal, Diphda, *FOMALHAUT, ALTAIR, *VEGA, Kochab.

Table with columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *Alpheratz, ALTAIR, Nunki, *ANTARES, ARCTURUS, *Alkaid, Kochab, *Alpheratz, Enif, ALTAIR, *Rasalhague, ARCTURUS, Alkaid, *Kochab, *Mirfak, Alpheratz, *Enif, ALTAIR, Rasalhague, *Alphaeca, Kochab, *Mirfak, Hamal, Diphda, *FOMALHAUT, ALTAIR, *VEGA, Kochab, *CAPELLA, Hamal, Diphda, *FOMALHAUT, ALTAIR, *VEGA, Kochab, *CAPELLA, ALDEBARAN, Diphda, *FOMALHAUT, ALTAIR, *VEGA, Kochab.

Lat 38 N

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn																																																																																																																																																																																																												
	*VEGA					Alphecca					ARCTURUS					*SPICA					REGULUS					*POLLUX					CAPELLA																																																																																																																																																																																																	
180	16°35.2'	53.3	43°43.9'	87.7	54°50.8'	112.9	36°45.7'	153.3	54°04.5'	230.7	36°55.7'	279.1	20°06.0'	313.3	181	17°13.2'	53.8	44°31.1'	88.3	55°34.2'	113.9	37°06.5'	154.4	53°27.5'	232.0	36°09.0'	279.6	19°31.8'	313.8	182	17°51.5'	54.3	45°18.4'	88.9	56°17.2'	115.0	37°26.5'	155.6	52°50.0'	233.2	35°22.5'	280.1	18°57.8'	314.2	183	18°30.0'	54.8	46°05.6'	89.5	56°59.9'	116.2	37°46.6'	156.7	52°11.8'	234.5	34°35.9'	280.6	18°24.0'	314.6	184	19°08.7'	55.2	46°52.9'	90.7	57°42.2'	117.3	38°03.8'	157.9	51°33.0'	235.6	33°49.9'	281.1	17°50.5'	315.1	185	19°47.7'	55.7	47°40.2'	90.7	58°23.8'	118.6	38°21.1'	159.1	50°53.7'	236.8	33°03.2'	281.6	17°17.2'	315.5	186	20°26.8'	56.1	48°27.5'	91.3	59°05.0'	119.8	38°37.5'	160.3	50°13.9'	237.9	32°16.9'	282.2	16°44.2'	315.9	187	21°06.2'	56.6	49°14.7'	92.0	59°45.9'	121.1	38°53.0'	161.5	49°33.6'	239.0	31°30.3'	282.7	16°11.4'	316.4	188	21°45.7'	57.0	50°02.0'	92.6	60°26.1'	122.4	39°07.5'	162.8	48°52.8'	240.1	30°44.6'	283.1	15°38.9'	316.8	189	22°25.5'	57.5	50°49.2'	93.3	61°05.7'	123.8	39°21.0'	164.0	48°11.6'	241.2	29°58.7'	283.7	15°06.7'	317.3	190	23°05.5'	57.9	51°36.4'	94.0	61°44.6'	125.3	39°33.6'	165.2	47°30.0'	242.2	29°12.8'	284.2	14°34.8'	317.8	191	23°45.6'	58.3	52°23.5'	94.7	62°23.9'	126.7	39°45.1'	166.5	46°48.0'	243.2	28°27.0'	284.7	14°03.2'	318.2	192	24°25.9'	58.8	53°10.6'	95.3	63°00.4'	128.3	39°55.7'	167.7	46°05.6'	244.2	27°41.3'	285.2	13°31.3'	318.7	193	25°06.5'	59.2	53°57.7'	96.1	63°37.1'	129.9	40°05.2'	169.0	45°22.9'	245.2	26°55.7'	285.7	13°00.8'	319.2	194	25°47.2'	59.6	54°44.7'	96.8	64°12.9'	131.6	40°13.7'	170.3	44°39.8'	246.1	26°10.3'	286.2	12°30.0'	319.6

Lat 38 N

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn																																																																																																																																																																																																												
	*Alpheratz					ALTAIR					Nunki					*ANTARES					ARCTURUS					*Alkaid					Kochab																																																																																																																																																																																																	
270	15°47.3'	65.0	51°33.4'	131.9	24°22.7'	166.1	22°12.5'	201.1	63°15.9'	265.0	44°28.0'	305.4	47°36.6'	342.6	271	16°30.3'	65.5	52°08.2'	133.2	24°33.7'	167.1	21°54.7'	202.5	37°28.8'	265.6	43°49.6'	305.6	47°22.4'	342.4	272	17°13.4'	66.0	52°42.3'	134.5	24°43.9'	168.0	21°36.3'	203.4	36°41.4'	266.4	42°32.8'	306.0	46°53.9'	342.0	273	17°56.7'	66.6	53°15.7'	135.9	24°53.3'	169.0	21°17.2'	204.3	35°54.4'	267.0	41°42.3'	306.4	46°53.7'	342.0	274	18°40.0'	67.1	53°48.2'	137.3	25°05.0'	170.0	20°57.4'	205.2	35°05.0'	267.6	40°54.6'	306.8	46°38.8'	341.6	275	19°23.8'	67.6	54°19.8'	138.7	25°09.7'	171.0	20°37.0'	206.1	34°20.0'	268.2	40°16.5'	307.3	46°24.0'	341.8	276	20°07.6'	68.1	54°50.6'	140.1	25°16.8'	171.9	20°15.9'	206.9	33°32.7'	268.8	40°38.4'	306.6	46°09.0'	341.5	277	20°51.5'	68.6	55°20.4'	141.6	25°23.0'	172.9	19°54.4'	207.6	32°43.4'	269.5	40°00.5'	307.0	45°53.9'	341.3	278	21°35.6'	69.1	55°49.3'	143.0	25°28.4'	173.9	19°31.8'	208.3	31°58.2'	270.1	39°22.7'	307.4	45°38.7'	341.2	279	22°19.8'	69.6	56°17.1'	144.7	25°33.0'	174.9	19°08.8'	209.5	31°10.9'	270.7	38°45.0'	307.2	45°23.4'	341.0	280	23°04.0'	70.1	56°43.9'	146.3	25°36.8'	175.9	18°45.2'	210.4	30°23.6'	271.3	38°07.4'	307.5	45°08.0'	340.8	281	23°48.8'	70.6	57°09.6'	147.9	25°39.8'	176.9	18°21.0'	211.2	29°36.3'	271.9	37°29.9'	307.4	44°52.4'	340.9	282	24°33.4'	71.1	57°34.1'	149.6	25°41.9'	177.9	17°56.2'	212.1	28°48.9'	272.5	36°52.8'	307.6	44°36.8'	340.6	283	25°18.2'	71.6	57°57.4'	151.3	25°43.3'	178.9	17°30.8'	212.9	28°01.9'	272.3	36°15.4'	308.0	44°21.1'	340.5	284	26°03.2'	72.1	58°19.5'	153.1	25°43.8'	179.9	17°04.9'	213.7	27°14.7'	273.7	35°38.3'	308.5	44°05.3'	340.4

Table with 24 columns (LHA, Hc, Zn, etc.) and multiple rows of astronomical data. The table is organized into sections with bolded headers for star names like CAPELLA, ALDEBARAN, etc. Each row contains numerical values for various parameters.

Table with 14 columns: LHA, Hc, Zn, *VEGA, Alphaecca, ARCTURUS, *SPICA, REGULUS, *POLLUX, CAPELLA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Contains star data for the first half of the page.

Table with 14 columns: *DENEBO, ALTAIR, Nunki, *ANTARES, ARCTURUS, *Alkaid, Kochab, *CAPELLA, Hamal, Diphda, *FOMALHAUT, ALTAIR, *VEGA, Kochab. Contains star data for the second half of the page.

Table with 14 columns: *DENEBO, ALTAIR, Nunki, *ANTARES, ARCTURUS, *Alkaid, Kochab, *Alpheratz, *Enif, ALTAIR, *Rasalhague, ARCTURUS, Alkaid, *Kochab. Contains star data for the first half of the second page.

Table with 14 columns: *Mirfak, Alpheratz, *FOMALHAUT, ALTAIR, Rasalhague, *Alphaecca, Kochab, *Mirfak, Hamal, Diphda, *FOMALHAUT, ALTAIR, *VEGA, Kochab, *CAPELLA, Hamal, Diphda, *FOMALHAUT, ALTAIR, *VEGA, Kochab. Contains star data for the second half of the second page.

Table with columns: LHA, Capella, Zenn, Hc, Zn, Fomalhaut, Altair, Vega, Kochab, Diphda, Emif, Deneb, Kochab, and other stars. Contains star coordinates and IDs for the first 60 rows.

Table with columns: LHA, Dubhe, Regulus, Procyon, Sirius, Rigel, Aldebaran, Capella, Kochab, Denebola, Regulus, Sirius, Rigel, Aldebaran, and Capella. Contains star coordinates and IDs for the remaining 58 rows.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *VEGA, Alphecca, ARCTURUS, *SPICA, REGULUS, *POLLUX, and Dubhe.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *DENEBO, ALTAIR, Nunki, *ANTARES, ARCTURUS, *Alkaid, and Kochab.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Kochab, *VEGA, Alphecca, *SPICA, REGULUS, *POLLUX, and Dubhe.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Alpheratz, *Enif, ALTAIR, *Rasalhague, ARCTURUS, Alkaid, and *Kochab.

Table with 13 columns: DENEBO, *VEGA, Rasalhague, ANTARES, *SPICA, REGULUS, *Dubhe. Rows include star names like DENEBO, *VEGA, Rasalhague, ANTARES, *SPICA, REGULUS, *Dubhe.

Table with 13 columns: *Mirfak, Alpheratz, *FOMALHAUT, ALTAIR, Rasalhague, *Alphecca, Kochab. Rows include star names like *Mirfak, Alpheratz, *FOMALHAUT, ALTAIR, Rasalhague, *Alphecca, Kochab.

Table with 13 columns: DENEBO, *ALTAIR, Rasalhague, ANTARES, *SPICA, Denebola, *Dubhe. Rows include star names like DENEBO, *ALTAIR, Rasalhague, ANTARES, *SPICA, Denebola, *Dubhe.

Table with 13 columns: *Mirfak, Hamal, Diphda, *FOMALHAUT, ALTAIR, *VEGA, Kochab. Rows include star names like *Mirfak, Hamal, Diphda, *FOMALHAUT, ALTAIR, *VEGA, Kochab.

Table with 13 columns: *DENEBO, ALTAIR, Nunki, *ANTARES, ARCTURUS, *Alkaid, Kochab. Rows include star names like *DENEBO, ALTAIR, Nunki, *ANTARES, ARCTURUS, *Alkaid, Kochab.

Table with 13 columns: *CAPELLA, Hamal, Diphda, *FOMALHAUT, ALTAIR, *VEGA, Kochab. Rows include star names like *CAPELLA, Hamal, Diphda, *FOMALHAUT, ALTAIR, *VEGA, Kochab.

Table with 13 columns: *DENEBO, ALTAIR, Nunki, *ANTARES, ARCTURUS, *Alkaid, Kochab. Rows include star names like *DENEBO, ALTAIR, Nunki, *ANTARES, ARCTURUS, *Alkaid, Kochab.

Table with 13 columns: *CAPELLA, ALDEBARAN, Diphda, *FOMALHAUT, ALTAIR, *VEGA, Kochab. Rows include star names like *CAPELLA, ALDEBARAN, Diphda, *FOMALHAUT, ALTAIR, *VEGA, Kochab.

Table with 13 columns: LHA, Hc, Zn, and star names (e.g., *CAPELLA, *ALDEBARAN, *DIPHA, *FOMALHAUT, *VEGA, *Kochab). Rows 0-60.

Table with 13 columns: LHA, Hc, Zn, and star names (e.g., *Dubhe, *REGULUS, *PROCYON, *SIRIUS, *RIGEL, *ALDEBARAN, *Mirfak). Rows 60-120.

Table with columns for star names (e.g., *CAPELLA, *DUBHE), right ascension (Hc), declination (Zn), and magnitude (LHA). The table is organized into 10 rows of star data, each with a header row listing star names and their respective coordinates.

Table with columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *VEGA, *Alphecca, ARCTURUS, *SPICA, REGULUS, *POLLUX, Dubhe, *Kochab, VEGA, Rasalhague, *ANTARES, SPICA, *REGULUS, Dubhe, *Alpharatz, Enif, ALTAIR, *ANTARES, ARCTURUS, *Alkaid, Kochab.

Table with columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *DENEB, *ALTAIR, *Nunki, ANTARES, ARCTURUS, *Alkaid, Kochab, *Mirfak, Alpharatz, *FOMALHAUT, ALTAIR, Rasalhague, *Alphecca, Kochab, *CAPELLA, Hamal, Diphda, *FOMALHAUT, ALTAIR, *VEGA, Kochab, *CAPELLA, ALDEBARAN, Diphda, *FOMALHAUT, ALTAIR, *VEGA, Kochab.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *CAPELLA, ALDEBARAN, Diphda, *FOMALHAUT, ALTAIR, *DENEb, Kochab, *Dubhe, REGULUS, PROCYON, *SIRIUS, RIGEL, ALDEBARAN, *Mirfak.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *Dubhe, REGULUS, PROCYON, *SIRIUS, RIGEL, ALDEBARAN, *Mirfak.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *CAPELLA, RIGEL, *Diphda, FOMALHAUT, Enif, *DENEb, Kochab, *Alkaid, REGULUS, Alphard, *SIRIUS, RIGEL, ALDEBARAN, *CAPELLA.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *Alkaid, REGULUS, Alphard, *SIRIUS, RIGEL, ALDEBARAN, *CAPELLA.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like CAPELLA, BETELGEUSE, *RIGEL, Diphda, *Alpheratz, DENEb, *Kochab, *Alkaid, REGULUS, *Alphard, SIRIUS, RIGEL, ALDEBARAN, *CAPELLA.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *Alkaid, REGULUS, *Alphard, SIRIUS, RIGEL, ALDEBARAN, *CAPELLA.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *Dubhe, POLLUX, SIRIUS, *RIGEL, Diphda, *Alpheratz, Schedar, *Alkaid, ARCTURUS, SPICA, *Alphard, SIRIUS, BETELGEUSE, *CAPELLA.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *Alkaid, ARCTURUS, SPICA, *Alphard, SIRIUS, BETELGEUSE, *CAPELLA.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *Dubhe, POLLUX, PROCYON, *SIRIUS, RIGEL, *Hamal, Schedar, Alkaid, *ARCTURUS, SPICA, *Alphard, PROCYON, BETELGEUSE, *CAPELLA.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Alkaid, *ARCTURUS, SPICA, *Alphard, PROCYON, BETELGEUSE, *CAPELLA.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *Dubhe, POLLUX, PROCYON, *SIRIUS, RIGEL, *Hamal, Mirfak, *Dubhe, Alkaid, *ARCTURUS, SPICA, REGULUS, *PROCYON, CAPELLA.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *Dubhe, Alkaid, *ARCTURUS, SPICA, REGULUS, *PROCYON, CAPELLA.

Table of celestial coordinates (LHA, Hc, Zn) and star names (CAPPELLA, ALDEBARAN, Diphda, FOMALHAUT, ALTAIR, *DENEB, Kochab).

Table of celestial coordinates (LHA, Hc, Zn) and star names (*Dubhe, REGULUS, PROCYON, *SIRIUS, ALDEBARAN, *Mirfak).

Table of celestial coordinates (LHA, Hc, Zn) and star names (*CAPPELLA, RIGEL, *Diphda, FOMALHAUT, Enif, *DENEB, Kochab).

Table of celestial coordinates (LHA, Hc, Zn) and star names (*Alkaid, REGULUS, Alphard, *SIRIUS, RIGEL, ALDEBARAN, *CAPPELLA).

Table of celestial coordinates (LHA, Hc, Zn) and star names (CAPPELLA, BETELGEUSE, *RIGEL, Diphda, *Alpheratz, DENEB, *Kochab).

Table of celestial coordinates (LHA, Hc, Zn) and star names (*Alkaid, REGULUS, *Alphard, *SIRIUS, RIGEL, ALDEBARAN, *CAPPELLA).

Table of celestial coordinates (LHA, Hc, Zn) and star names (*Dubhe, POLLUX, SIRIUS, *RIGEL, Diphda, *Alpheratz, Schedar).

Table of celestial coordinates (LHA, Hc, Zn) and star names (*Alkaid, ARCTURUS, SPICA, *Alphard, SIRIUS, BETELGEUSE, *CAPPELLA).

Table of celestial coordinates (LHA, Hc, Zn) and star names (*Dubhe, POLLUX, PROCYON, *SIRIUS, RIGEL, *Hamal, Schedar).

Table of celestial coordinates (LHA, Hc, Zn) and star names (Alkaid, *ARCTURUS, SPICA, *Alphard, PROCYON, BETELGEUSE, *CAPPELLA).

Table of celestial coordinates (LHA, Hc, Zn) and star names (*Dubhe, POLLUX, PROCYON, *SIRIUS, RIGEL, *Hamal, Mirfak).

Table of celestial coordinates (LHA, Hc, Zn) and star names (Dubhe, *Alkaid, ARCTURUS, *SPICA, REGULUS, *PROCYON, CAPPELLA).

Table with 12 columns (LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn) and 2 rows of data. The table contains star coordinates and names such as *CAPELLA, *DUBHE, *REGULUS, *PROCYON, *SIRIUS, *RIGEL, *ALDEBARAN, *MIRFAK, *DIPHA, *FOMALHAUT, *ALTAIR, *DENEK, *KOCBACH, *ALKAID, *ALPHARD, *ALPHAZERTZ, *DENEK, *KOCBACH, *ALKAID, *REGULUS, *ALPHARD, *SIRIUS, *RIGEL, *ALDEBARAN, *CAPELLA, *POLLUX, *SIRIUS, *RIGEL, *DIPHA, *ALPHAZERTZ, *DENEK, *KOCBACH, *ALKAID, *ARCTURUS, *SPICA, *ALPHARD, *SIRIUS, *RIGEL, *BETELGEUSE, *CAPELLA, *DUBHE, *POLLUX, *PROCYON, *SIRIUS, *RIGEL, *HAMAL, *SCHEDAR, *ALKAID, *ARCTURUS, *SPICA, *ALPHARD, *PROCYON, *BETELGEUSE, *CAPELLA, *DUBHE, *POLLUX, *PROCYON, *SIRIUS, *RIGEL, *HAMAL, *MIRFAK, *DUBHE, *ALKAID, *ARCTURUS, *SPICA, *REGULUS, *PROCYON, *BETELGEUSE, *CAPELLA.

Table with columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *VEGA, ARCTURUS, *SPICA, REGULUS, *POLLUX, Dubhe, *Kochab, VEGA, Rasalhague, *ANTARES, SPICA, *REGULUS, Dubhe, *Alpheratz, Enif, ALTAIR, *ANTARES, ARCTURUS, *Alkaid, Kochab.

Table with columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *DENEB, ALTAIR, *Nunki, ANTARES, ARCTURUS, *Alkaid, Kochab, *Mirfak, Alpheratz, *FOMALHAUT, ALTAIR, Rasalhague, *Alphecca, Kochab, *Mirfak, Hamal, Diphda, *FOMALHAUT, ALTAIR, *VEGA, Kochab, *CAPELLA, ALDEBARAN, Diphda, *FOMALHAUT, ALTAIR, *VEGA, Kochab.

Table with columns for LHA, Hc, Zn, and star names (e.g., *VEGA, *ALTAIR, *Nunki, *ANTARES, *SPICA, *REGULUS, *Deneb, *MIRFAK, *ALDEBARAN, *DIPHA, *FOMALHAUT, *ALTAIR, *VEGA, *Kochab). Each row contains numerical data for these parameters.

Table with columns for LHA, Vega, Hc, Zn, and star names (Alphacca, SPICA, Genah, REGULUS, *POLLUX, Dubhe, *DENEB, ALTAIR, *Nunki, *ANTARES, *ARCTURUS, *Alkaid, Kochab) and their corresponding coordinates and magnitudes.

Table with 48 columns (LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, FOMALHAUT, Hc, Zn, Hc, Zn, LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn) and 100 rows of astronomical data. Each row contains coordinates and names for various stars and constellations such as Schedar, *CAPELLA, ALDEBARAN, RIGEL, *Diphda, FOMALHAUT, ENIF, *DENEb, Dubhe, *REGULUS, *Alphard, SIRIUS, RIGEL, *ALDEBARAN, *MIRfak, etc.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Schedar, *CAPELLA, ALDEBARAN, *Diphda, FOMALHAUT, ALTAIR, *DENEb.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *CAPELLA, ALDEBARAN, RIGEL, *Diphda, FOMALHAUT, Enif, *DENEb.

Table with 13 columns: CAPELLA, *ALDEBARAN, RIGEL, *Diphda, Alpheratz, DENEb, *Kochab. Rows include star names like CAPELLA, *ALDEBARAN, RIGEL, *Diphda, Alpheratz, DENEb, *Kochab.

Table with 13 columns: *CAPELLA, PROCYON, SIRIUS, *RIGEL, Acamar, Diphda, *Alpheratz. Rows include star names like *CAPELLA, PROCYON, SIRIUS, *RIGEL, Acamar, Diphda, *Alpheratz.

Table with 13 columns: *Dubhe, PROCYON, SIRIUS, *RIGEL, Diphda, *Hamal, Mirfak. Rows include star names like *Dubhe, PROCYON, SIRIUS, *RIGEL, Diphda, *Hamal, Mirfak.

Table with 13 columns: *Dubhe, POLLUX, PROCYON, *SIRIUS, RIGEL, *Hamal, Mirfak. Rows include star names like *Dubhe, POLLUX, PROCYON, *SIRIUS, RIGEL, *Hamal, Mirfak.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, *REGULUS, PROCYON, SIRIUS, *RIGEL, ALDEBARAN, *Mirfak.

Table with 13 columns: Dubhe, *REGULUS, Alpheratz, SIRIUS, *RIGEL, ALDEBARAN, *CAPELLA. Rows include star names like Dubhe, *REGULUS, Alpheratz, SIRIUS, *RIGEL, ALDEBARAN, *CAPELLA.

Table with 13 columns: *Dubhe, REGULUS, *Alpheratz, SIRIUS, RIGEL, *ALDEBARAN, CAPELLA. Rows include star names like *Dubhe, REGULUS, *Alpheratz, SIRIUS, RIGEL, *ALDEBARAN, CAPELLA.

Table with 13 columns: Dubhe, *ARCTURUS, SPICA, *Alpheratz, SIRIUS, BETELGEUSE, *CAPELLA. Rows include star names like Dubhe, *ARCTURUS, SPICA, *Alpheratz, SIRIUS, BETELGEUSE, *CAPELLA.

Table with 13 columns: Dubhe, *ARCTURUS, SPICA, *Alpheratz, SIRIUS, POLLUX, *CAPELLA. Rows include star names like Dubhe, *ARCTURUS, SPICA, *Alpheratz, SIRIUS, POLLUX, *CAPELLA.

Table with 13 columns: *Dubhe, ARCTURUS, *SPICA, RIGEL, Alpheratz, *PROCYON, POLLUX. Rows include star names like *Dubhe, ARCTURUS, *SPICA, RIGEL, Alpheratz, *PROCYON, POLLUX.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Schedar, *CEPHELA, ALDEBARAN, *Diphda, FOMALHAUT, ALTAIR, *DENEb, etc.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, *REGULUS, PROCVON, SIRIUS, *RIGEL, ALDEBARAN, *CEPHELA, etc.

Lat 26 N

Table of astronomical data for the northern hemisphere (Lat 26 N), columns include LHA, Hc, Zn, and star names like Alkaid, Alphaeca, *SPICA, etc.

Lat 26 N

Table of astronomical data for the northern hemisphere (Lat 26 N), columns include LHA, Hc, Zn, and star names like *DENEB, ALTAIR, *Nunki, etc.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Schedar, *CEPHELA, ALDEBARAN, *DIPHA, FOMALHAUT, *ALTAIR, *DENEK.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *CEPHELA, ALDEBARAN, RIGEL, *DIPHA, FOMALHAUT, Enif, *DENEK.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like CEPELLA, *ALDEBARAN, RIGEL, Acamar, *DIPHA, Alpheratz, *DENEK.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *CEPHELA, PROCYON, *SIRIUS, RIGEL, Diphda, *Hamal, Mirfak.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like CEPELLA, *Dubhe, POLLUX, PROCYON, *SIRIUS, RIGEL, *Hamal.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, *REGULUS, Alpheratz, SIRIUS, *RIGEL, ALDEBARAN, *CEPELLA.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, *REGULUS, Alpheratz, SIRIUS, *RIGEL, ALDEBARAN, *CEPELLA.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *Dubhe, *REGULUS, *Alpheratz, SIRIUS, RIGEL, *ALDEBARAN, CEPELLA.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, *ARCTURUS, SPICA, *Alpheratz, SIRIUS, BETELGEUSE, *CEPELLA.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, *ARCTURUS, SPICA, *Alpheratz, SIRIUS, POLLUX, *CEPELLA.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *Dubhe, Alkaid, ARCTURUS, *SPICA, Alpheratz, *PROCYON, POLLUX, *CEPELLA.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Schedar, CAPELLA, ALDEBARAN, Diphda, FOMALHAUT, ALTAIR, DENEZ.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, REGULUS, Alphard, SIRIUS, RIGEL, ALDEBARAN, CAPELLA.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like CAPELLA, ALDEBARAN, RIGEL, Diphda, FOMALHAUT, Enif, DENEZ.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, REGULUS, Alphard, SIRIUS, RIGEL, ALDEBARAN, CAPELLA.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like CAPELLA, ALDEBARAN, RIGEL, Acamar, Diphda, Alpheratz, DENEZ.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, REGULUS, Alpheratz, SIRIUS, RIGEL, ALDEBARAN, CAPELLA.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like CAPELLA, POLLUX, PROCYON, SIRIUS, RIGEL, Diphda, Hamal, Alpheratz.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, ARCTURUS, SPICA, Alpheratz, SIRIUS, BETELGEUSE, CAPELLA.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like CAPELLA, PROCYON, SIRIUS, RIGEL, Diphda, Hamal, Mirfak.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, ARCTURUS, SPICA, Alpheratz, SIRIUS, POLLUX, CAPELLA.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like CAPELLA, Dubhe, POLLUX, PROCYON, SIRIUS, RIGEL, Hamal.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, Alkaid, ARCTURUS, SPICA, Alpheratz, SIRIUS, PROCYON, POLLUX.

Table with columns for LHA, Hc, Zn, and star names (Alkaid, Alphecca, etc.) and their corresponding coordinates.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Schedar, CAPELLA, ALDEBARAN, Diphda, FOMALHAUT, ALTAIR, DENEb.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like CAPELLA, ALDEBARAN, RIGEL, Diphda, FOMALHAUT, Enif, DENEb.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like CAPELLA, ALDEBARAN, RIGEL, Acamar, Diphda, Alpheratz, DENEb.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like CAPELLA, POLLUX, PROCYON, SIRIUS, Acamar, Diphda, Alpheratz.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like CAPELLA, PROCYON, SIRIUS, RIGEL, Diphda, Hamal, Mirfak.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like CAPELLA, Duhbe, POLLUX, PROCYON, SIRIUS, RIGEL, Hamal.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, REGULUS, Alpheratz, SIRIUS, RIGEL, ALDEBARAN, CAPELLA.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, REGULUS, Alpheratz, SIRIUS, RIGEL, ALDEBARAN, CAPELLA.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, Denebala, Alpheratz, SIRIUS, RIGEL, ALDEBARAN, CAPELLA.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, ARCTURUS, SPICA, Alpheratz, SIRIUS, BETELGEUSE, CAPELLA.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, ARCTURUS, SPICA, Alpheratz, SIRIUS, POLLUX, CAPELLA.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, ARCTURUS, SPICA, Alpheratz, SIRIUS, PROCYON, POLLUX.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Alkaid, Alphecca, *SPICA, Gienah, REGULUS, *POLLUX, Dubhe, *Kochab, VEGA, Rasalhague, *ANTARES, SPICA, *REGULUS, Dubhe, *MIRFAK, Hamal, Diphda, *FOMALHAUT, ALTAIR, Rasalhague, *VEGA, DENEUB, *DENEB, *CAPELLA, ALDEBARAN, Diphda, *FOMALHAUT, ALTAIR, *VEGA, DENEUB.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *DENEB, Enif, *Nunki, ANTARES, *ARCTURUS, Alkaid, Kochab, *ALPHERATZ, FOMALHAUT, *Nunki, ANTARES, *Alphecca, Kochab, *DENEB, Alpheratz, FOMALHAUT, *Nunki, ANTARES, *Alphecca, Kochab, *MIRFAK, Hamal, Diphda, *FOMALHAUT, ALTAIR, Rasalhague, *VEGA, DENEUB, Schedar, *CAPELLA, ALDEBARAN, Diphda, *FOMALHAUT, ALTAIR, *VEGA, DENEUB.

Table with columns for LHA, Hc, Zn, and star names like Alkaid, Alphaeca, SPICA, etc. It lists astronomical coordinates and names for various stars across the sky.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, FOMALHAUT, *ALTAIR, DENEZ, Hc, Zn. Rows include star names like Schedar, *CEPHELLA, ALDEBARAN, *Diphda, FOMALHAUT, *ALTAIR, DENEZ.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, *REGULUS, Alphard, SIRIUS, *RIGEL, ALDEBARAN, *CAPELLA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *CAPELLA, ALDEBARAN, RIGEL, *ACHERNAR, FOMALHAUT, Enif, *DENEZ.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, *REGULUS, Alphard, SIRIUS, *RIGEL, ALDEBARAN, *CAPELLA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *CAPELLA, ALDEBARAN, RIGEL, *ACHERNAR, FOMALHAUT, *Alpharatz, DENEZ.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *Dubhe, Deneb, *Alphard, SIRIUS, RIGEL, *ALDEBARAN, CAPELLA.

Table with 13 columns: CAPELLA, *POLLUX, *PROCYON, SIRIUS, *Acanar, Diphda, *Alpharatz, Hc, Zn. Rows include star names like CAPELLA, *POLLUX, *PROCYON, SIRIUS, *Acanar, Diphda, *Alpharatz.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, *ARCTURUS, SPICA, *Alphard, SIRIUS, BATELGEUSE, *CAPELLA.

Table with 13 columns: *CAPELLA, PROCYON, *SIRIUS, RIGEL, Diphda, *Hamal, Mirfak, Hc, Zn. Rows include star names like *CAPELLA, PROCYON, *SIRIUS, RIGEL, Diphda, *Hamal, Mirfak.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, *ARCTURUS, SPICA, *Alphard, SIRIUS, POLLUX, *CAPELLA.

Table with 13 columns: CAPELLA, *Dubhe, POLLUX, PROCYON, *SIRIUS, RIGEL, *Hamal, Hc, Zn. Rows include star names like CAPELLA, *Dubhe, POLLUX, PROCYON, *SIRIUS, RIGEL, *Hamal.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *Dubhe, Alkaid, ARCTURUS, *SPICA, Alphard, *PROCYON, POLLUX.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like 89, 63, 48, 8, 345, 0, 24, 28, 3, 0, 6, 3, 57, 9.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like 179, 48, 24, 2, 350, 9, 54, 0, 2, 3, 1, 6, 6, 5, 9, 5.

Star chart table for Lat 21 N, columns 1-24. Includes star names like Alkaid, Alphaeca, SPICA, etc., and their coordinates in RA, Dec, and magnitude.

Star chart table for Lat 21 N, columns 25-48. Includes star names like DENEBO, Nunki, ANTARES, etc., and their coordinates in RA, Dec, and magnitude.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *ALDEBARAN, Diphda, *FOMALHAUT, ALTAIR, *DENEb.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, *REGULUS, Alphard, SIRIUS, *RIGEL, ALDEBARAN, *CAPELLA.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like CAPELLA, *ALDEBARAN, RIGEL, ACHERNAR, *FOMALHAUT, Enif, *DENEb.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, *REGULUS, Alphard, SIRIUS, *RIGEL, ALDEBARAN, *CAPELLA.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Mirfak, CAPELLA, *ALDEBARAN, RIGEL, ACHERNAR, *FOMALHAUT, *DENEb.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, *Denebola, Alphard, *SIRIUS, RIGEL, ALDEBARAN, *CAPELLA.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *CAPELLA, *POLLUX, PROCYON, SIRIUS, *Acamar, Diphda, *Alphertz.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, *ARCTURUS, SPICA, *Alphard, SIRIUS, BETELGEUSE, *CAPELLA.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *CAPELLA, POLLUX, PROCYON, *SIRIUS, CANOPIUS, Diphda, *Hamal.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, *ARCTURUS, SPICA, *Alphard, SIRIUS, BETELGEUSE, *CAPELLA.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like CAPELLA, *POLLUX, PROCYON, SIRIUS, *RIGEL, Menkar, *Hamal.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dubhe, Alkaid, ARCTURUS, *SPICA, Subail, *PROCYON, POLLUX.

Table with columns: LHA, Hc, Zn, *CAPELLA, *ALDEBARAN, *ACHERNAR, *FOMALHAUT, *ALTAIR, *DENEB, and Zn. It lists star coordinates for a specific latitude.

Table with columns: LHA, Hc, Zn, *CAPELLA, *ALDEBARAN, RIGEL, *ACHERNAR, *FOMALHAUT, Enif, *DENEB, and Zn. It lists star coordinates for a specific latitude.

Table with columns: LHA, Hc, Zn, *CAPELLA, *ALDEBARAN, RIGEL, *ACHERNAR, *FOMALHAUT, *Alpheratz, and Zn. It lists star coordinates for a specific latitude.

Table with columns: LHA, Hc, Zn, *CAPELLA, *POLLUX, *PROCYON, SIRIUS, *ACAMAR, Diphda, *Alpheratz, and Zn. It lists star coordinates for a specific latitude.

Table with columns: LHA, Hc, Zn, *CAPELLA, *POLLUX, *PROCYON, SIRIUS, *CAMPUS, Diphda, *Hamal, and Zn. It lists star coordinates for a specific latitude.

Table with columns: LHA, Hc, Zn, *CAPELLA, *POLLUX, *PROCYON, SIRIUS, *RIGEL, Menkar, *Hamal, and Zn. It lists star coordinates for a specific latitude.

Table with columns: LHA, Hc, Zn, Dubhe, *REGULUS, Alpheratz, SIRIUS, *RIGEL, ALDEBARAN, *CAPELLA, and Zn. It lists star coordinates for a specific latitude.

Table with columns: LHA, Hc, Zn, Dubhe, *REGULUS, Alpheratz, SIRIUS, *RIGEL, ALDEBARAN, *CAPELLA, and Zn. It lists star coordinates for a specific latitude.

Table with columns: LHA, Hc, Zn, Dubhe, *Denebola, *Alpheratz, *SIRIUS, RIGEL, ALDEBARAN, *CAPELLA, and Zn. It lists star coordinates for a specific latitude.

Table with columns: LHA, Hc, Zn, Dubhe, *ARCTURUS, SPICA, *Alpheratz, SIRIUS, BETELGEUSE, *CAPELLA, and Zn. It lists star coordinates for a specific latitude.

Table with columns: LHA, Hc, Zn, Dubhe, *ARCTURUS, SPICA, *Alpheratz, SIRIUS, BETELGEUSE, *CAPELLA, and Zn. It lists star coordinates for a specific latitude.

Table with columns: LHA, Hc, Zn, Dubhe, *ARCTURUS, SPICA, *Alpheratz, SIRIUS, BETELGEUSE, *CAPELLA, and Zn. It lists star coordinates for a specific latitude.

Table with columns: LHA, Hc, Zn, and star names (Schedar, CAPELLA, *ALDEBARAN, etc.) and their corresponding coordinates.

Table with columns: LHA, Hc, Zn, and star names (Dubhe, *REGULUS, Alphard, etc.) and their corresponding coordinates.

Table with columns LHA, Hc, Zn, and star names (Alkaid, ANTAIRES, *SPICA, Giengah, *REGULUS, POLLUX, Dubhe) for various coordinates.

Table with columns LHA, Hc, Zn, and star names (VEGA, *DENEB, Enif, *Nunki, ANTAIRES, *ARCTURUS, Alkaid) for various coordinates.

Table with columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows contain star coordinates and identifiers like *ALDEBARAN, *ACHERNAR, *FOMALHAUT, *ALTAIR, *DENEK.

Table with columns: CAPELLA, *ALDEBARAN, RIGEL, *ACHERNAR, *FOMALHAUT, Enif, *DENEK. Rows contain star coordinates and identifiers.

Table with columns: Mirfak, *CAPELLA, ALDEBARAN, RIGEL, *ACHERNAR, FOMALHAUT, *Alphertz. Rows contain star coordinates and identifiers.

Table with columns: CAPELLA, *POLLUX, PROCYON, SIRIUS, *Acamar, Diphda, *Alpheratz. Rows contain star coordinates and identifiers.

Table with columns: CAPELLA, *POLLUX, PROCYON, SIRIUS, *CANOPUS, Diphda, *Hamal. Rows contain star coordinates and identifiers.

Table with columns: CAPELLA, *POLLUX, PROCYON, SIRIUS, *RIGEL, Menkar, *Hamal, *Dubhe, Alkaid, ARCTURUS, *SPICA, Subail, *PROCYON, POLLUX. Rows contain star coordinates and identifiers.

Table with columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows contain star coordinates and identifiers like Dubhe, *REGULUS, Alpherat, SIRIUS, *RIGEL, ALDEBARAN, *CAPELLA.

Table with columns: Dubhe, *REGULUS, Alpherat, SIRIUS, *RIGEL, ALDEBARAN, *CAPELLA. Rows contain star coordinates and identifiers.

Table with columns: Dubhe, *Denebola, Alpherat, *SIRIUS, RIGEL, ALDEBARAN, *CAPELLA. Rows contain star coordinates and identifiers.

Table with columns: Dubhe, *ARCTURUS, SPICA, *Alpherat, SIRIUS, BETELGEUSE, *CAPELLA. Rows contain star coordinates and identifiers.

Table with columns: Dubhe, *ARCTURUS, SPICA, *Alpherat, SIRIUS, BETELGEUSE, *CAPELLA. Rows contain star coordinates and identifiers.

Table with columns: Dubhe, *ARCTURUS, SPICA, *Alpherat, SIRIUS, BETELGEUSE, *CAPELLA. Rows contain star coordinates and identifiers.

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
	*Alkaid	ANTARES	*SPICA	Gienah	*REGULUS	POLLUX	Dubhe					
180	50°09.3'	27.7	11°46.9'	122.2	55°22.7'	140.6	56°05.5'	172.8	62°52.7'	264.8	30°39.4'	293.4
181	50°35.7'	26.9	12°35.6'	122.6	55°58.8'	142.0	56°11.9'	174.5	61°55.3'	265.2	29°46.5'	293.5
182	51°01.5'	26.1	13°24.1'	123.0	56°37.3'	143.4	56°16.6'	176.2	60°57.8'	265.7	28°58.3'	293.4
183	51°26.5'	25.3	14°12.3'	123.4	57°07.5'	144.9	56°19.6'	177.9	60°00.3'	266.1	28°00.8'	293.4
184	51°50.8'	24.5	15°00.3'	123.8	57°40.0'	146.4	56°20.3'	179.4	59°02.7'	266.4	27°07.9'	293.7
185	52°14.3'	23.6	15°48.1'	124.3	58°11.3'	148.0	56°20.3'	181.6	58°05.1'	267.1	26°15.1'	293.7
186	52°37.0'	22.8	16°36.6'	124.7	58°41.2'	149.6	56°18.1'	183.1	57°07.5'	267.2	25°22.3'	293.9
187	52°59.0'	21.9	17°22.9'	125.2	59°09.7'	151.2	56°14.1'	184.8	56°09.9'	267.5	24°29.6'	293.4
188	53°20.0'	21.0	18°10.0'	125.6	59°36.7'	153.0	56°08.4'	186.6	55°12.3'	267.8	23°36.9'	293.4
189	53°40.2'	20.0	18°56.7'	126.1	60°02.1'	154.7	56°01.1'	188.2	54°14.6'	268.2	22°44.2'	294.1
190	53°59.5'	19.1	19°43.2'	126.5	60°25.9'	156.5	55°52.0'	189.9	53°17.0'	268.5	21°51.6'	294.3
191	54°17.8'	18.2	20°29.4'	127.0	60°48.0'	158.4	55°41.3'	191.4	52°19.3'	268.8	20°58.0'	294.3
192	54°35.2'	17.1	21°15.3'	127.5	61°08.4'	160.3	55°29.0'	193.2	51°21.7'	269.1	20°04.6'	294.6
193	54°51.7'	16.0	22°00.9'	128.0	61°26.9'	162.5	55°15.0'	194.6	50°24.0'	269.4	19°10.1'	294.6
194	55°07.1'	15.0	22°46.1'	128.6	61°43.6'	164.2	54°59.5'	196.4	49°26.3'	269.7	18°21.7'	294.8
	Kochab	*VEGA	Rasalhague	ANTARES	*SPICA	*REGULUS	Dubhe					
195	29°54.7'	08.5	14°13.7'	53.1	23°22.2'	83.0	23°31.1'	129.1	61°58.3'	166.2	48°28.7'	269.9
196	30°03.1'	08.2	14°59.9'	53.3	24°19.5'	83.2	24°15.6'	129.1	61°58.3'	166.2	47°31.0'	269.9
197	30°11.1'	07.9	15°46.1'	53.4	25°16.7'	83.4	24°59.9'	130.2	62°21.8'	170.3	46°33.3'	270.5
198	30°18.9'	07.6	16°32.5'	53.5	26°14.0'	83.6	25°43.8'	130.8	62°30.5'	172.4	45°35.6'	270.7
199	30°26.4'	07.3	17°18.8'	53.6	27°11.4'	83.8	26°27.1'	131.4	62°37.0'	174.5	44°38.0'	271.3
200	30°33.7'	07.1	18°05.0'	53.7	28°08.0'	84.1	27°10.3'	132.0	62°41.5'	176.7	43°40.0'	271.3
201	30°40.6'	06.8	18°51.8'	53.8	29°06.1'	84.2	27°53.0'	132.6	62°43.8'	178.8	42°42.6'	271.3
202	30°47.2'	06.5	19°38.4'	53.9	30°03.5'	84.5	28°35.3'	133.2	62°43.9'	180.9	41°45.0'	271.8
203	30°53.6'	06.2	20°25.0'	54.0	31°00.9'	84.8	29°17.1'	133.8	62°41.9'	183.1	40°47.3'	272.0
204	30°59.7'	05.9	21°11.6'	54.1	31°58.4'	85.0	29°58.5'	134.6	62°37.7'	185.2	39°49.7'	272.3
205	31°05.4'	05.6	21°58.3'	54.0	32°55.9'	85.2	30°39.4'	135.2	62°31.4'	187.3	38°52.1'	272.5
206	31°10.9'	05.3	22°44.9'	54.1	33°53.3'	85.3	31°19.8'	135.8	62°23.0'	189.4	37°54.5'	272.7
207	31°16.0'	05.0	23°31.7'	54.1	34°50.8'	85.4	31°59.8'	136.6	62°12.6'	191.5	36°56.9'	272.9
208	31°20.9'	04.7	24°18.4'	54.1	35°48.4'	85.9	32°39.2'	137.3	62°00.0'	193.5	35°59.3'	273.2
209	31°25.4'	04.4	25°05.2'	54.2	36°45.9'	86.1	33°18.0'	138.0	61°45.5'	195.6	35°03.0'	273.5
	Kochab	*VEGA	Rasalhague	ANTARES	SPICA	*REGULUS	Dubhe					
210	31°29.6'	04.0	25°51.9'	54.2	37°43.4'	86.3	33°56.3'	138.8	61°29.1'	197.5	34°04.1'	273.7
211	31°33.5'	03.7	26°38.3'	54.2	38°41.0'	86.3	34°34.0'	139.5	61°10.8'	199.5	33°06.6'	273.9
212	31°37.1'	03.4	27°25.4'	54.2	39°38.6'	86.8	35°11.2'	140.3	60°50.7'	201.4	32°08.9'	274.3
213	31°40.4'	03.1	28°12.2'	54.1	40°36.2'	87.0	35°47.7'	141.1	60°28.7'	203.3	31°11.5'	274.4
214	31°43.4'	02.8	28°58.9'	54.1	41°33.8'	87.3	36°23.3'	142.0	60°05.1'	205.1	30°14.0'	274.6
215	31°46.0'	02.5	29°45.6'	54.1	42°31.4'	87.5	36°58.8'	142.8	59°39.9'	206.8	29°16.6'	274.8
216	31°48.4'	02.1	30°32.3'	54.0	43°29.0'	87.7	37°33.3'	143.7	59°13.1'	208.5	28°19.9'	275.1
217	31°50.4'	01.8	31°18.9'	53.9	44°26.7'	88.0	38°07.1'	144.5	58°44.8'	210.2	27°21.7'	275.3
218	31°52.0'	01.5	32°05.5'	53.9	45°24.3'	88.2	38°40.2'	145.4	58°15.1'	211.8	26°24.2'	275.5
219	31°53.4'	01.2	32°52.1'	53.8	46°22.0'	88.3	39°12.6'	146.3	57°44.0'	213.4	25°26.8'	275.8
220	31°54.4'	00.9	33°38.6'	53.7	47°19.6'	88.8	39°44.4'	147.3	57°11.6'	214.9	24°29.2'	276.0
221	31°55.1'	00.5	34°25.2'	53.6	48°17.3'	89.0	40°14.9'	148.3	56°38.0'	216.4	23°32.1'	276.2
222	31°55.5'	00.2	35°11.4'	53.5	49°14.9'	89.2	40°44.8'	149.2	56°03.2'	217.8	22°34.8'	276.5
223	31°55.6'	359.9	35°57.7'	53.4	50°12.6'	89.4	41°13.9'	150.2	55°27.3'	219.2	21°37.5'	276.7
224	31°55.3'	359.6	36°43.9'	53.2	51°00.3'	89.8	41°42.1'	151.2	54°50.3'	220.5	20°40.2'	276.9
	VEGA	*ALTAIR	Nunki	ANTARES	*SPICA	Denebola	*Alkaid					
225	37°30.0'	53.0	18°44.7'	85.8	18°41.0'	125.7	42°09.4'	152.3	54°12.3'	221.8	44°15.7'	274.8
226	38°16.0'	52.8	19°42.3'	86.1	19°27.7'	126.1	42°35.8'	153.3	53°33.4'	223.1	43°18.2'	275.0
227	39°02.0'	52.0	20°39.8'	86.3	20°14.1'	126.6	43°01.2'	154.4	52°53.5'	224.3	42°20.7'	275.2
228	39°47.7'	52.4	21°37.4'	86.6	21°00.3'	127.3	43°27.5'	155.4	52°12.8'	225.5	41°23.3'	275.4
229	40°33.4'	52.2	22°35.0'	86.8	21°46.1'	127.6	43°49.0'	156.6	51°31.3'	226.6	40°25.9'	275.6
230	41°18.9'	52.0	23°32.6'	87.1	22°31.7'	128.1	44°11.3'	157.7	50°49.1'	227.7	39°28.5'	275.8
231	42°04.3'	51.7	24°30.2'	87.3	23°16.9'	128.7	44°32.6'	158.9	50°06.1'	228.7	38°31.1'	276.0
232	42°49.5'	51.5	25°27.7'	87.6	24°01.7'	129.4	44°52.9'	160.1	49°22.4'	229.7	37°33.8'	276.2
233	43°34.5'	51.2	26°25.4'	87.8	24°46.3'	129.7	45°12.0'	161.2	48°38.1'	230.7	36°36.4'	276.4
234	44°19.3'	50.9	27°23.1'	88.1	25°30.4'	130.3	45°29.9'	162.4	47°53.1'	231.7	35°39.9'	276.5
235	45°04.0'	50.5	28°20.7'	88.4	26°14.2'	130.9	45°46.8'	163.7	47°07.6'	232.6	34°41.4'	276.7
236	45°48.4'	50.2	29°18.4'	88.6	26°57.6'	131.4	46°02.4'	164.9	46°21.5'	233.5	33°44.6'	276.9
237	46°32.3'	49.9	30°16.0'	88.9	27°40.6'	132.2	46°16.6'	166.1	45°34.7'	234.3	32°47.4'	277.1
238	47°16.5'	49.3	31°13.7'	89.2	28°23.2'	132.7	46°30.0'	167.4	44°47.8'	235.3	31°50.1'	277.3
239	48°00.2'	49.0	32°11.4'	89.4	29°05.4'	133.3	46°42.0'	168.7	44°00.2'	236.0	30°52.9'	277.5
	*VEGA	ALTAIR	Nunki	*ANTARES	SPICA	*ARCTURUS	Alkaid					
240	48°43.6'	48.6	33°09.0'	89.7	29°47.1'	134.0	46°52.7'	169.9	43°12.2'	236.8	29°51.0'	277.6
241	49°26.7'	48.0	34°06.7'	90.0	30°28.3'	134.7	47°02.1'	171.2	42°23.8'	237.6	28°54.1'	277.8
242	50°09.5'	47.6	35°04.0'	90.2	31°09.1'	135.3	47°10.2'	172.5	41°34.9'	238.3	27°57.1'	277.9
243	50°51.9'	47.1	36°02.1'	90.5	31°49.4'	136.0	47°17.1'	173.8	40°45.6'	239.0	26°59.2'	278.0
244	51°34.0'	46.6	36°59.7'	90.8	32°29.2'	136.8	47°22.6'	175.2	39°56.1'	239.7	25°61.7'	278.1
245	52°15.7'	46.0	37°57.5'	91.1	33°08.4'	137.5	47°26.8'	176.5	39°06.1'	240.3	24°30.7'	278.2
246	52°57.0'	45.3	38°55.1'	91.3	33°47.1'	138.2	47°29.7'	177.8	38°15.8'	241.0	23°09.3'	278.3
247	53°37.8'	44.8	39°52.7'	91.7	34°25.3'	139.0	47°31.2'	179.1	37°25.3'	241.6	21°58.3'	278.4
248	54°18.2'	44.1	40°50.4'	92.0	35°02.8'	139.8	47°31.4'	180.5	36°34.4'	242.2	20°57.3'	278.4
249	54°58.1'	43.4	41°48.0'	92.3	35°39.7'	140.6	47°30.3'	181.8	35°43.2'	242.8	19°56.4'	278.5
250	55°37.4'	42.7	42°45.6'	92.6	36°16.0'	141.4	47°27.9'	183.1	34°51.7'	243.4	18°55.4'	278.5
251	56°16.2'	41.9	43°43.3'	92.9	36°51.7'	142.2	47°24.1'	184.4	34°00.0'	244.0	17°54.3'	278.6
252	56°54.4'	41.1	44°40.8'	93.2	37°26.7'	143.1	47°19.0'	185.7	33°08.1'	244.5	16°53.7'	278.6
253	57°32.0'	40.2	45°38.4'	93.6	38°01.0'	144.0	47°12.6'	187.0	32°15.9'	245.1	15°52.5'	278.7
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LHA	Ca	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn							
0	17°56.3'	45.9	23°40.3'	78.2	20°53.4'	144.9	15°01.1'	166.5	43°05.7'	198.3	29°09.5'	272.0	38°42.0'	316.8					
1	18°37.9'	45.9	24°37.1'	78.4	21°26.5'	145.4	15°14.4'	167.0	42°47.0'	199.5	28°11.6'	272.2	38°02.2'	316.5					
2	19°19.5'	45.9	25°33.8'	78.5	21°59.1'	146.0	15°27.2'	167.5	42°27.1'	200.5	27°13.7'	272.4	37°22.2'	316.2					
3	20°01.2'	46.0	26°30.7'	78.7	22°31.3'	146.6	15°39.5'	168.0	42°06.3'	201.6	26°15.8'	272.6	36°42.0'	316.0					
4	20°42.8'	46.0	27°27.5'	78.9	23°02.9'	147.2	15°51.3'	168.5	41°44.4'	202.7	25°17.7'	272.9	36°01.6'	315.7					
5	21°24.5'	46.0	28°24.4'	79.0	23°34.1'	147.8	16°02.6'	169.1	41°21.6'	203.7	24°20.0'	273.2	35°21.1'	315.5					
6	22°06.2'	46.0	29°21.3'	79.2	24°04.7'	148.4	16°13.3'	169.6	40°57.8'	204.8	23°22.1'	273.4	34°40.4'	315.3					
7	22°47.8'	45.9	30°18.2'	79.3	24°37.4'	149.1	16°23.5'	170.1	40°33.1'	205.8	22°24.3'	273.6	33°59.5'	315.0					
8	23°29.5'	45.9	31°15.2'	79.5	25°04.0'	149.7	16°33.1'	170.7	40°07.4'	206.8	21°26.5'	273.8	33°18.5'	314.8					
9	24°11.1'	45.9	32°12.2'	79.6	25°33.2'	150.4	16°42.2'	171.2	39°40.9'	207.7	20°28.6'	274.1	32°37.3'	314.7					
10	24°52.7'	45.8	33°09.2'	79.8	26°01.6'	151.0	16°50.8'	171.8	39°13.4'	208.7	19°30.3'	274.3	31°56.0'	314.5					
11	25°34.3'	45.8	34°06.3'	80.0	26°29.3'	151.7	16°58.8'	172.3	38°45.2'	209.6	18°33.1'	274.6	31°14.6'	314.3					
12	26°15.7'	45.7	35°03.3'	80.2	26°56.5'	152.4	17°06.3'	172.9	38°16.1'	210.6	17°35.3'	274.8	30°33.1'	314.2					
13	26°57.1'	45.6	36°00.5'	80.4	27°23.3'	153.1	17°13.2'	173.4	37°46.2'	211.5	16°37.3'	275.0	29°51.5'	314.1					
14	27°38.5'	45.5	36°57.6'	80.4	27°48.9'	153.8	17°19.5'	174.0	37°15.6'	212.4	15°39.8'	275.3	29°09.9'	313.9					
													CAPELLA	*ALDEBARAN	RIGEL	ACHERNAR	*FOMALHAUT	Enif	*DENEB
15	28°19.9'	45.4	37°54.7'	80.5	22°35.5'	105.7	17°25.3'	174.5	36°44.2'	213.2	42°16.0'	269.9	28°28.1'	313.8					
16	29°01.1'	45.3	38°51.9'	80.6	23°03.1'	106.3	17°30.5'	175.1	36°12.1'	214.1	41°18.1'	270.2	27°46.2'	313.7					
17	29°42.3'	45.2	39°49.1'	80.8	24°06.9'	106.5	17°35.2'	175.7	35°39.2'	214.9	40°20.1'	270.4	27°04.3'	313.6					
18	30°23.3'	45.0	40°46.3'	80.9	25°22.4'	106.9	17°39.3'	176.2	35°05.7'	215.7	39°22.2'	270.7	26°22.4'	313.6					
19	31°04.3'	44.9	41°43.6'	81.0	26°17.8'	107.3	17°42.8'	176.7	34°31.5'	216.5	38°24.2'	270.9	25°40.4'	313.5					
20	31°45.2'	44.7	42°40.8'	81.1	27°13.1'	107.7	17°45.7'	177.1	33°56.7'	217.3	37°26.3'	271.2	24°58.3'	313.4					
21	32°25.5'	44.6	43°38.1'	81.3	28°08.3'	108.1	17°48.1'	177.4	33°21.3'	218.1	36°28.3'	271.4	24°16.2'	313.4					
22	33°06.5'	44.4	44°35.4'	81.4	29°03.3'	108.5	17°49.9'	178.5	32°45.2'	218.8	35°30.4'	271.7	23°34.1'	313.4					
23	33°47.0'	44.2	45°32.7'	81.5	29°58.2'	108.9	17°51.1'	179.1	32°08.6'	219.6	34°32.5'	271.9	22°52.0'	313.3					
24	34°27.3'	44.0	46°30.0'	81.6	30°53.9'	109.4	17°51.8'	179.1	31°31.4'	220.3	33°34.5'	272.1	22°09.8'	313.3					
25	35°07.5'	43.8	47°27.4'	81.7	31°47.5'	109.8	17°51.8'	180.2	30°53.6'	221.0	32°36.6'	272.4	21°27.6'	313.3					
26	35°47.5'	43.5	48°24.7'	81.8	32°42.0'	110.3	17°51.3'	180.8	30°15.3'	221.7	31°38.7'	272.6	20°45.5'	313.3					
27	36°27.3'	43.3	49°22.1'	81.9	33°35.2'	110.8	17°50.2'	181.4	29°36.5'	222.4	30°40.8'	272.8	20°03.3'	313.3					
28	37°06.9'	43.0	50°19.5'	82.0	34°30.3'	111.3	17°48.6'	181.9	28°57.2'	223.0	29°43.0'	273.1	19°21.2'	313.4					
29	37°46.3'	42.7	51°16.9'	82.1	35°24.2'	111.8	17°46.3'	182.5	28°17.4'	223.7	28°45.1'	273.3	18°39.0'	313.4					
													Mirfak	*CAPELLA	ALDEBARAN	RIGEL	*ACHERNAR	FOMALHAUT	*Alpheratz
30	50°58.2'	21.9	38°25.5'	42.4	52°14.3'	82.2	36°18.0'	112.3	17°43.5'	183.1	27°37.2'	224.3	60°49.9'	303.8					
31	51°19.5'	21.1	39°04.5'	42.4	53°11.7'	82.3	37°11.5'	112.8	17°40.1'	183.6	26°56.5'	224.9	60°01.1'	303.1					
32	51°39.9'	20.9	39°43.6'	42.4	54°09.2'	82.4	38°04.8'	113.4	17°36.2'	184.2	26°15.4'	225.5	59°12.8'	302.5					
33	51°59.5'	19.3	40°21.7'	41.4	55°06.6'	82.5	38°58.7'	114.0	17°31.6'	184.8	25°33.8'	226.1	58°23.8'	301.9					
34	52°18.2'	18.4	40°59.9'	41.1	56°04.1'	82.5	39°50.7'	114.5	17°26.5'	185.3	24°51.9'	226.7	57°34.4'	301.3					
35	52°36.0'	17.5	41°37.8'	40.7	57°01.5'	82.6	40°43.3'	115.2	17°20.9'	185.9	24°09.5'	227.2	56°44.8'	300.8					
36	52°53.0'	16.6	42°15.7'	40.3	57°58.0'	82.7	41°35.6'	115.8	17°14.7'	186.4	23°26.8'	227.8	55°54.9'	300.2					
37	53°09.0'	15.6	42°52.7'	39.8	58°54.5'	82.7	42°27.7'	116.4	17°07.9'	187.0	22°44.3'	228.3	55°04.8'	299.9					
38	53°24.0'	14.5	43°29.7'	39.4	59°54.0'	82.8	43°19.4'	117.1	17°00.6'	187.5	22°00.3'	228.8	54°14.4'	299.5					
39	53°38.3'	13.4	44°06.3'	38.9	60°51.5'	82.8	44°10.9'	117.8	16°52.7'	188.1	21°16.5'	229.3	53°23.9'	299.1					
40	53°51.1'	12.5	44°42.3'	38.5	61°49.0'	82.8	45°02.0'	118.4	16°44.2'	188.6	20°32.4'	229.8	52°33.3'	298.7					
41	54°03.1'	11.5	45°18.4'	38.0	62°46.5'	82.9	45°52.7'	119.2	16°35.2'	189.2	19°47.9'	230.3	51°42.2'	298.4					
42	54°14.1'	10.4	45°53.8'	37.4	63°44.0'	82.9	46°43.3'	120.0	16°25.7'	189.7	19°03.2'	230.8	50°51.6'	298.1					
43	54°24.1'	9.3	46°28.9'	36.9	64°41.5'	82.9	47°32.2'	120.7	16°15.6'	190.3	18°18.1'	231.3	49°60.0'	297.8					
44	54°32.9'	8.3	47°03.4'	36.3	65°39.0'	82.9	48°22.8'	121.6	16°05.0'	190.8	17°32.8'	231.7	48°08.7'	297.5					
													CAPELLA	*POLLUX	PROCYON	SIRIUS	*ACHERNAR	Diphda	*Alpheratz
45	47°37.5'	35.7	22°57.9'	65.5	20°32.8'	90.0	20°56.0'	117.5	15°53.9'	191.3	43°09.4'	226.6	48°17.2'	297.3					
46	48°11.2'	35.1	23°50.7'	65.6	21°30.7'	90.3	21°41.7'	117.9	15°42.3'	191.9	42°27.0'	227.5	47°25.7'	297.1					
47	48°44.4'	34.5	24°43.5'	65.7	22°28.7'	90.7	22°32.8'	118.4	15°30.3'	192.4	41°44.0'	228.3	46°34.0'	296.8					
48	49°16.8'	33.8	25°36.3'	65.8	23°26.6'	90.8	23°23.6'	118.9	15°17.4'	192.9	41°00.4'	229.1	45°42.2'	296.5					
49	49°48.8'	33.2	26°29.2'	65.9	24°24.6'	91.1	24°14.2'	119.5	15°04.2'	193.4	40°16.3'	229.9	44°50.4'	296.5					
50	50°20.2'	32.7	27°22.1'	65.9	25°22.5'	91.3	25°04.6'	120.0	14°50.5'	193.9	39°31.7'	230.7	43°58.5'	296.2					
51	50°51.0'	31.2	28°15.0'	66.0	26°20.5'	91.6	30°54.6'	120.5	14°36.3'	194.4	38°46.6'	231.5	43°06.5'	296.2					
52	51°21.1'	30.0	29°07.9'	66.0	27°18.4'	91.9	31°44.4'	121.1	14°21.6'	194.9	38°01.0'	232.2	42°14.5'	296.0					
53	51°50.5'	30.0	29°50.7'	66.0	28°16.3'	92.2	32°33.9'	121.7	14°06.4'	195.4	37°15.0'	232.9	41°22.4'	295.9					
54	52°19.3'	29.3	30°53.9'	66.1	29°14.2'	92.5	33°23.0'	122.3	13°50.8'	195.9	36°28.6'	233.6	40°30.2'	295.8					
55	52°47.7'	28.5	31°46.8'	66.1	30°12.1'	92.7	34°11.9'	122.9	13°34.7'	196.4	35°41.1'	234.3	39°38.8'	295.7					
56	53°14.6'	27.6	32°39.8'	66.1	31°10.0'	93.0	35°04.4'	123.5	13°18.1'	196.9	34°54.5'	234.9	38°45.8'	295.6					
57	53°41.1'	26.7	33°32.8'	66.1	32°07.9'	93.3	35°48.6'	124.1	13°01.0'	197.4	34°06.6'	235.6	37°53.5'	295.5					
58	54°06.7'	25.8	34°25.8'	66.1	33°05.7'	93.6	36°36.3'	124.8	12°43.5'	197.8	33°18.8'	236.2	37°01.1'	295.6					
59	54°31.4'	24.8	35°18.8'	66.1	34°03.5'	93.9	37°23.7'	125.5	12°25.5'	198.3	32°30.5'	236.8	36°08.9'	295.5					
													CAPELLA	*POLLUX	PROCYON	SIRIUS	*CANOPUS	Diphda	*Hamal
60	54°55.3'	23.8	36°11.8'	66.1	35°01.3'	94.2	38°10.7'	126.2	12°07.5'	198.9	31°41.1'	237.4	35°20.8'	292.3					
61	55°18.3'	22.8	37°04.7'	66.0	35°59.1'	94.5	38°57.3'	126.9	11°50.3'	199.3	30°52.9'	238.0	34°27.2'	291.9					
62	55°40.3'	21.8	37°57.7'	66.0	36°56.9'	94.9	39°43.5'	127.6	11°31.0'	199.7	30°03.6'	238.6	33°33.3'	291.5					
63	56°01.3'	20.7	38°50.6'	65.9	37°54.6'	95.2	40°29.1'	128.4	11°13.1'	200.1	29°14.1'	239.1	32°39.3'	291.2					
64	56°21.3'	19.6	39°43.5'	65.9	38°52.3'	95.5	41°14.3'	129.2	10°55.0'	200.5	28°24.2'	239.6	31°45.2'	290.9					
65	56°40.2'	18.5	40°36.4'	65.8	39°50.0'	95.8	41°59.0'	130.0	10°36.9'	200.9	27								

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
Alkaid	*Alpheca	ANTARES	*ACRUX	REGULUS	*POLLUX	Dubhe								
180	49'16.0'	27.138	40.7'	67.612	18.9'	122.111	36.2'	176.862	57.1'	266.830	15.3'	294.042	19.7'	351.242
181	49'42.1'	26.439	34.3'	67.613	07.9'	122.411	39.2'	177.361	59.3'	267.129	22.2'	294.042	10.5'	350.642
182	50'07.5'	25.640	27.9'	67.613	56.7'	122.811	41.8'	177.761	01.0'	267.528	29.4'	294.042	00.7'	350.642
183	50'32.2'	24.841	23.1'	67.614	45.3'	123.211	43.8'	178.260	03.5'	267.830	15.3'	294.141	50.4'	349.430
184	50'56.1'	24.042	15.0'	67.614	33.6'	123.611	45.4'	178.760	05.6'	268.126	43.3'	294.141	39.4'	348.830
185	51'19.3'	23.143	02.5'	67.616	21.8'	124.011	46.5'	179.160	07.7'	268.420	50.7'	294.241	19.9'	348.230
186	51'41.6'	22.344	01.9'	67.617	09.7'	124.411	47.6'	179.660	09.7'	268.714	57.9'	294.341	11.8'	347.730
187	52'03.9'	21.445	45.4'	67.617	57.4'	124.811	47.4'	180.060	11.1'	269.010	294.341	01.3'	347.130	
188	52'23.9'	20.545	48.7'	67.618	44.8'	125.211	47.2'	180.560	13.3'	269.310	294.440	09.9'	346.530	
189	52'43.7'	19.646	42.1'	66.919	31.9'	125.811	46.4'	181.060	15.5'	269.610	294.540	03.2'	346.030	
190	53'02.7'	18.647	35.3'	66.720	18.8'	126.311	45.2'	181.460	17.7'	269.910	294.640	02.1'	345.530	
191	53'20.7'	17.648	28.5'	66.621	05.7'	126.711	43.9'	181.860	19.9'	270.210	294.740	01.1'	344.930	
192	53'37.8'	16.649	21.7'	66.422	51.7'	127.111	41.4'	182.360	22.0'	270.510	294.840	00.7'	344.430	
193	53'53.9'	15.650	14.7'	66.223	37.7'	127.511	38.9'	182.860	24.2'	270.810	294.940	00.3'	343.930	
194	54'09.1'	14.651	07.7'	66.024	23.7'	127.911	35.8'	183.260	26.4'	271.110	294.940	00.3'	343.430	
	*VEGA	Rasalhague	ANTARES	*RIGIL KENT	Gienah	*REGULUS	Dubhe							
195	13'37.6'	52.923	14.6'	82.254	08.7'	128.111	26.9'	167.855	39.5'	198.448	28.1'	271.139	02.7'	342.930
196	14'23.9'	53.124	12.1'	82.824	53.8'	129.311	33.8'	168.250	42.0'	200.477	30.2'	271.338	04.4'	342.430
197	15'10.3'	53.225	09.6'	83.025	38.5'	129.811	35.0'	168.759	44.8'	201.646	32.2'	271.537	07.7'	341.930
198	15'56.7'	53.326	07.2'	83.226	22.8'	130.412	30.1'	169.254	47.3'	203.145	34.3'	271.736	10.9'	341.430
199	16'43.1'	53.427	04.7'	83.427	05.7'	131.012	21.2'	169.753	50.4'	204.644	36.4'	272.035	13.1'	341.030
200	17'29.7'	53.528	02.3'	83.628	50.3'	131.612	12.2'	170.253	53.4'	206.143	38.5'	272.334	15.8'	340.630
201	18'16.2'	53.529	59.3'	83.829	33.5'	132.212	32.3'	170.653	56.4'	207.642	40.7'	272.633	18.3'	340.130
202	19'02.8'	53.630	56.5'	84.030	16.2'	132.812	14.1'	171.053	59.4'	209.141	42.7'	272.932	20.8'	339.730
203	19'49.5'	53.731	53.0'	84.231	58.5'	133.412	15.0'	171.453	62.4'	210.640	44.8'	273.231	23.0'	339.330
204	20'36.2'	53.832	51.8'	84.432	40.4'	134.012	15.8'	171.853	65.4'	212.139	46.9'	273.530	25.1'	338.930
205	21'22.9'	53.933	50.5'	84.633	21.8'	134.612	13.0'	172.253	68.4'	213.638	49.0'	273.830	27.2'	338.530
206	22'09.6'	53.734	48.2'	84.834	02.7'	135.212	13.9'	172.653	71.4'	215.137	51.1'	274.130	29.3'	338.130
207	22'56.3'	53.835	46.9'	85.035	57.2'	135.812	13.0'	173.053	74.4'	216.636	53.2'	274.430	31.4'	337.730
208	23'43.1'	53.936	45.7'	85.236	32.1'	136.412	13.0'	173.453	77.4'	218.135	55.3'	274.730	33.4'	337.330
209	24'29.9'	53.837	44.1'	85.437	02.5'	137.012	13.3'	173.853	80.4'	219.634	57.4'	275.030	35.4'	336.930
	*VEGA	Rasalhague	ANTARES	*RIGIL KENT	SPICA	*REGULUS	Dubhe							
210	25'16.6'	53.838	37.2'	85.639	41.3'	138.312	13.8'	174.253	83.4'	221.133	59.9'	274.430	35.6'	336.730
211	26'03.4'	53.839	35.7'	85.840	19.5'	139.312	14.3'	174.653	86.4'	222.632	62.9'	274.730	37.9'	336.330
212	26'50.1'	53.740	34.0'	86.041	05.7'	139.912	14.7'	175.053	89.4'	224.131	65.9'	275.030	40.2'	335.930
213	27'36.8'	53.741	32.3'	86.242	34.3'	140.712	15.1'	175.453	92.4'	225.630	73.9'	275.330	42.5'	335.530
214	28'23.5'	53.742	30.6'	86.443	07.7'	141.512	15.5'	175.853	95.4'	227.129	76.9'	275.630	44.8'	335.130
215	29'10.2'	53.643	28.9'	86.644	37.4'	142.312	15.9'	176.253	98.4'	228.628	80.1'	275.930	47.1'	334.730
216	29'56.8'	53.544	27.2'	86.845	06.1'	143.112	16.3'	176.653	101.4'	230.127	83.1'	276.230	49.4'	334.330
217	30'43.4'	53.545	25.5'	87.046	35.9'	144.112	16.7'	177.053	104.4'	231.626	86.1'	276.530	51.7'	333.930
218	31'29.9'	53.446	23.8'	87.247	29.5'	145.012	17.1'	177.453	107.4'	233.125	89.1'	276.830	54.0'	333.530
219	32'16.6'	53.347	22.1'	87.448	02.4'	145.912	17.5'	177.853	110.4'	234.624	92.1'	277.130	56.3'	333.130
220	33'02.8'	53.248	20.4'	87.649	31.5'	146.812	17.9'	178.253	113.4'	236.123	95.1'	277.430	58.6'	332.730
221	33'49.4'	53.249	18.7'	87.850	01.5'	147.712	18.3'	178.653	116.4'	237.622	98.1'	277.730	60.9'	332.330
222	34'35.4'	53.150	17.0'	88.051	31.3'	148.612	18.7'	179.053	119.4'	239.121	101.1'	278.030	63.2'	331.930
223	35'21.6'	52.951	15.3'	88.252	00.9'	149.512	19.1'	179.453	122.4'	240.620	104.1'	278.330	65.5'	331.530
224	36'07.7'	52.852	13.6'	88.453	30.6'	150.412	19.5'	179.853	125.4'	242.119	107.1'	278.630	67.8'	331.130
	*VEGA	ALTAIR	ANTARES	*RIGIL KENT	SPICA	*Denebola	Alkaid							
225	36'53.7'	52.453	12.0'	88.654	02.4'	151.312	19.9'	180.253	128.4'	243.618	110.1'	278.930	70.1'	330.730
226	37'39.5'	52.254	10.3'	88.855	31.9'	152.212	20.3'	180.653	131.4'	245.117	113.1'	279.230	72.4'	330.330
227	38'25.3'	52.055	8.6'	89.056	21.5'	153.112	20.7'	181.053	134.4'	246.616	116.1'	279.530	74.7'	329.930
228	39'10.9'	51.856	6.9'	89.257	11.1'	154.012	21.1'	181.453	137.4'	248.115	119.1'	279.830	77.0'	329.530
229	39'56.4'	51.657	5.2'	89.458	00.4'	154.912	21.5'	181.853	140.4'	249.614	122.1'	280.130	79.3'	329.130
230	40'41.7'	51.458	3.5'	89.659	44.8'	155.812	21.9'	182.253	143.4'	251.113	125.1'	280.430	81.6'	328.730
231	41'26.8'	51.259	1.8'	89.860	34.2'	156.712	22.3'	182.653	146.4'	252.612	128.1'	280.730	83.9'	328.330
232	42'11.6'	51.060	0.1'	90.061	23.6'	157.612	22.7'	183.053	149.4'	254.111	131.1'	281.030	86.2'	327.930
233	42'56.6'	50.861	52.2'	90.262	13.0'	158.512	23.1'	183.453	152.4'	255.610	134.1'	281.330	88.5'	327.530
234	43'41.1'	50.662	35.5'	90.463	02.3'	159.412	23.5'	183.853	155.4'	257.109	137.1'	281.630	90.8'	327.130
235	44'25.5'	50.463	18.8'	90.664	31.6'	160.312	23.9'	184.253	158.4'	258.608	140.1'	281.930	93.1'	326.730
236	45'09.9'	50.264	12.1'	90.865	20.9'	161.212	24.3'	184.653	161.4'	260.107	143.1'	282.230	95.4'	326.330
237	45'53.9'	50.065	0.4'	91.066	10.2'	162.112	24.7'	185.053	164.4'	261.606	146.1'	282.530	97.7'	325.930
238	46'37.3'	49.866	31.1'	91.267	59.5'	163.012	25.1'	185.453	167.4'	263.105	149.1'	282.830	100.0'	325.530
239	47'20.5'	49.667	14.4'	91.468	48.8'	163.912	25.5'	185.853	170.4'	264.604	152.1'	283.130	102.3'	325.130
	*VEGA	ALTAIR	Nunki	*ANTARES	SPICA	*ARCTURUS	Alkaid							
240	48'03.6'	47.733	08.4'	89.030	28.6'	133.647	51.7'	169.834	43.4'	237.664	31.3'	283.146	31.3'	328.930
241	48'46.3'	47.334	06.7'	89.331	18.0'	134.246	01.4'	171.125	45.6'	238.364	01.8'	282.946	02.1'	328.330
242	49'28.7'	46.835	04.0'	89.632	07.1'	134.845	01.7'	172.406	47.8'	239.064	03.0'	282.748	02.9'	327.730
243	50'10.7'	46.236	01.2'	89.933	32.4'	135.644	16.3'	173.717	49.7'	240.764	04.9'	282.550	03.7'	327.130
244	50'52.4'	45.737	00.2'	90.134	22.0'	136.443	22.4'	175.028	51.6'	241.464	06.1'	282.352	04.5'	326.530
245	51'33.7'	45.138	57.8'	90.335	12.5'	137.242	27.7'	176.339	53.5'	242.164	07.3'	282.154	05.3'	325.930
246	52'14.5'	44.539	56.1'	90.536	02.7'	138.041	33.7'	177.230	55.4'	242.864	08.5'	281.956	06.1'	325.330
247	52'54.9'	43.940	54.4'	90.737	35.0'	138.840	31.2'	178.121	57.3'	243.564	09.7'	281.758	06.9'	324.730
248	53'34.7'	43.241	52.7'	90.938	25.3'	139.639	29.1'	179.012	59.2'	244.264	10.9'	281.560	07.7'	324.130
249	54'14.1'	42.442	51.0'	91.139	15.6'	140.438	27.4'	179.903	61.1'	244.964	12.1'	281.362	08.5'	323.530
250	54'53.0'	41.743	49.3'	91.340	05.9'	141.237	25.7'	180.804	63.0'	245.664	13.3'	281.164	09.3'	322.930
251	55'31.3'	41.044	47.6'	91.541	30.2'	142.036	24.0'	181.705						

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
0	17°14.4'	45.6	23°27.8'	77.8	21°42.4'	144.6	15°59.5'	166.4	44°02.6'	198.6	29°07.1'	272.5	37°58.0'	317.3
1	17°56.1'	45.7	24°24.7'	77.9	22°15.8'	145.2	16°12.9'	166.9	43°43.5'	199.8	28°09.0'	272.7	37°18.5'	317.0
2	18°37.7'	45.7	25°21.7'	78.1	22°48.8'	145.8	16°28.5'	167.4	43°23.3'	200.9	27°10.8'	273.0	36°38.7'	316.8
3	19°19.4'	45.7	26°18.7'	78.2	23°21.3'	146.4	16°43.8'	168.0	43°02.0'	202.0	26°12.7'	273.2	35°58.7'	316.5
4	20°01.1'	45.7	27°15.7'	78.4	23°53.3'	147.0	16°59.0'	168.5	42°39.7'	203.0	25°14.6'	273.4	35°18.5'	316.2
5	20°42.7'	45.7	28°12.7'	78.5	24°24.8'	147.6	17°14.1'	169.0	42°16.4'	204.0	24°16.5'	273.6	34°38.1'	316.0
6	21°24.3'	45.7	29°09.8'	78.6	24°55.7'	148.2	17°29.3'	169.6	41°52.2'	205.1	23°18.4'	273.8	33°57.6'	315.7
7	22°06.0'	45.6	30°06.9'	78.8	25°26.1'	148.8	17°44.6'	170.1	41°27.0'	206.2	22°20.3'	274.0	33°16.9'	315.5
8	22°47.6'	45.6	31°04.0'	78.9	25°56.0'	149.5	17°59.9'	170.6	41°00.9'	207.2	21°22.2'	274.2	32°36.0'	315.3
9	23°29.2'	45.6	32°01.1'	79.0	26°25.3'	150.1	17°74.1'	171.2	40°33.9'	208.1	20°24.2'	274.4	31°55.0'	315.1
10	24°10.7'	45.6	32°58.3'	79.2	26°54.0'	150.8	17°50.2'	171.7	40°06.0'	209.1	19°26.1'	274.7	31°13.8'	314.9
11	24°52.2'	45.4	33°55.5'	79.3	27°22.1'	151.5	18°05.3'	172.3	39°37.2'	210.1	18°28.1'	274.9	30°32.5'	314.8
12	25°33.7'	45.3	34°52.7'	79.4	27°49.6'	152.2	18°20.5'	172.8	39°07.7'	211.0	17°30.1'	275.1	29°51.2'	314.6
13	26°15.0'	45.3	35°49.9'	79.5	28°16.5'	152.9	18°35.7'	173.4	38°37.3'	211.9	16°32.1'	275.3	29°09.9'	314.5
14	26°56.4'	45.2	36°47.2'	79.6	28°42.7'	153.6	18°50.9'	174.0	38°06.2'	212.8	15°34.2'	275.5	28°28.1'	314.3
*CAPELLA *ALDEBARAN *RIGEL *ACHERNAR *FOMALHAUT *ENIF *DENEBO														
15	27°37.6'	45.0	37°44.4'	79.7	22°51.6'	105.3	18°25.0'	174.5	37°34.3'	213.7	42°15.6'	270.8	27°46.4'	314.2
16	28°18.8'	44.9	38°41.7'	79.8	23°19.1'	105.7	18°30.3'	175.1	37°01.6'	214.5	41°17.4'	271.1	27°04.6'	314.1
17	28°59.8'	44.8	39°39.1'	79.9	23°46.3'	106.0	18°35.0'	175.6	36°28.3'	215.3	40°19.2'	271.3	26°22.8'	314.0
18	29°40.8'	44.6	40°36.4'	80.0	24°13.6'	106.4	18°39.1'	176.2	35°54.3'	216.2	39°21.0'	271.5	25°40.9'	313.9
19	30°21.6'	44.5	41°33.7'	80.1	24°40.9'	106.8	18°43.2'	176.8	35°19.6'	217.0	38°22.8'	271.7	24°58.9'	313.8
20	31°02.4'	44.4	42°31.1'	80.2	25°08.1'	107.1	18°47.3'	177.4	34°44.4'	217.7	37°24.6'	271.9	24°16.9'	313.8
21	31°43.0'	44.3	43°28.4'	80.3	25°35.4'	107.5	18°51.4'	178.0	34°16.6'	218.5	36°26.5'	272.1	23°34.9'	313.7
22	32°23.5'	43.9	44°25.9'	80.4	26°02.7'	108.0	18°55.5'	178.6	33°48.8'	219.3	35°28.3'	272.3	22°52.8'	313.7
23	33°03.0'	43.7	45°23.3'	80.5	26°30.0'	108.4	18°59.6'	179.1	33°21.0'	220.1	34°30.0'	272.5	22°10.7'	313.6
24	33°44.0'	43.5	46°20.7'	80.6	31°10.6'	108.8	18°51.8'	179.6	32°53.2'	220.9	33°32.0'	272.7	21°28.5'	313.6
25	34°23.9'	43.3	47°18.1'	80.6	32°07.6'	109.3	18°51.8'	180.2	31°38.8'	221.4	32°33.8'	273.0	20°46.4'	313.6
26	35°03.8'	43.0	48°15.6'	80.7	33°05.2'	109.7	18°51.3'	180.8	30°60.0'	222.1	31°35.7'	273.2	20°04.0'	313.6
27	35°43.4'	42.8	49°13.1'	80.8	33°57.0'	110.2	18°50.2'	181.4	30°20.7'	222.8	30°37.6'	273.4	19°22.0'	313.6
28	36°22.8'	42.5	50°10.5'	80.8	34°51.8'	110.6	18°48.5'	181.9	29°41.0'	223.4	29°39.5'	273.6	18°39.9'	313.6
29	37°02.0'	42.2	51°08.0'	80.9	35°46.2'	111.1	18°46.3'	182.5	29°00.7'	224.0	28°41.4'	273.8	17°57.7'	313.6
*MIRFAC *CAPELLA *ALDEBARAN *RIGEL *ACHERNAR *FOMALHAUT *ALPHAZERT														
30	50°02.5'	21.5	37°41.0'	41.9	52°05.5'	80.9	36°40.4'	111.6	18°43.4'	183.1	28°20.0'	224.7	60°15.9'	305.3
31	50°23.2'	20.6	38°19.8'	41.6	53°03.0'	81.0	37°34.4'	112.1	18°40.0'	183.7	27°38.9'	225.3	59°28.1'	304.5
32	50°43.5'	19.8	38°58.3'	41.2	54°00.5'	81.1	38°28.2'	112.7	18°36.0'	184.2	26°57.3'	225.9	58°40.0'	303.9
33	51°02.8'	18.9	39°36.5'	40.9	54°58.0'	81.0	39°21.9'	113.2	18°31.4'	184.8	26°15.3'	226.4	57°51.5'	303.2
34	51°21.2'	18.0	40°14.4'	40.5	55°55.5'	81.0	40°15.2'	113.8	18°26.3'	185.4	25°32.9'	227.0	57°02.3'	302.7
35	51°38.8'	17.1	40°52.1'	40.1	56°53.0'	81.1	41°08.4'	114.4	18°20.6'	186.0	24°50.2'	227.6	56°13.5'	302.1
36	51°55.1'	16.1	41°29.9'	39.7	57°50.5'	81.1	42°01.3'	115.0	18°14.3'	186.5	24°07.0'	228.1	55°24.3'	301.6
37	52°11.1'	15.2	42°06.9'	39.3	58°48.0'	81.1	42°54.0'	115.6	18°07.4'	187.0	23°23.5'	228.6	54°34.3'	301.1
38	52°25.9'	14.2	42°43.1'	38.8	59°45.6'	81.1	43°46.3'	116.2	18°00.0'	187.6	22°39.7'	229.1	53°44.3'	300.7
39	52°39.9'	13.2	43°19.9'	38.6	60°43.1'	81.1	44°38.3'	116.9	17°52.1'	188.1	21°55.5'	229.6	52°54.2'	300.3
40	52°52.5'	12.4	43°55.4'	38.4	61°40.6'	81.0	45°30.2'	117.6	17°43.5'	188.7	21°11.0'	230.1	52°03.0'	299.9
41	53°04.3'	11.2	44°30.9'	37.4	62°38.1'	81.0	46°21.6'	118.3	17°34.5'	189.2	20°26.1'	230.6	51°13.2'	299.5
42	53°15.1'	10.4	45°06.0'	36.8	63°35.6'	80.9	47°12.7'	119.0	17°24.8'	189.8	19°41.0'	231.1	50°21.5'	299.2
43	53°24.8'	9.9	45°40.7'	36.3	64°33.0'	80.8	48°03.4'	119.8	17°14.7'	190.3	18°55.6'	231.5	49°31.4'	298.8
44	53°33.5'	9.1	46°14.9'	35.7	65°30.5'	80.7	48°53.7'	120.6	17°04.0'	190.9	18°09.8'	232.0	48°40.5'	298.5
*CAPELLA *POLLUX *PROCYON *SIRIUS *ACHERNAR *DIPHA *ALPHAZERT														
45	46°48.7'	35.1	22°32.9'	65.2	20°32.6'	89.7	26°17.8'	117.0	16°52.7'	191.4	43°50.3'	227.3	47°49.3'	298.3
46	47°21.9'	34.5	23°25.7'	65.2	21°30.8'	89.9	27°09.6'	117.5	16°41.0'	191.9	43°07.2'	228.2	46°57.9'	298.0
47	47°54.6'	33.9	24°18.6'	65.2	22°29.1'	90.0	28°01.1'	118.0	16°28.7'	192.4	42°23.6'	229.0	46°06.5'	297.8
48	48°26.8'	33.2	25°11.5'	65.2	23°27.3'	90.2	28°52.4'	118.6	16°15.9'	193.0	41°39.4'	229.8	45°14.9'	297.6
49	48°58.4'	32.5	26°04.4'	65.4	24°25.5'	90.6	29°43.5'	119.0	16°02.6'	193.5	40°54.6'	230.6	44°23.2'	297.4
50	49°29.4'	31.8	26°57.4'	65.4	25°23.7'	90.9	30°34.3'	119.5	15°48.7'	194.0	40°09.4'	231.4	43°31.3'	297.2
51	49°59.7'	31.1	27°50.3'	65.5	26°21.9'	91.1	31°24.9'	120.0	15°34.4'	194.5	39°23.7'	232.1	42°39.7'	297.0
52	50°29.5'	30.3	28°43.3'	65.5	27°20.1'	91.3	32°15.1'	120.6	15°19.6'	195.0	38°37.3'	232.8	41°47.8'	296.8
53	50°58.5'	29.5	29°36.3'	65.5	28°18.3'	91.6	33°05.1'	121.1	15°04.3'	195.5	37°50.9'	233.4	40°55.8'	296.7
54	51°26.8'	28.7	30°29.3'	65.5	29°16.5'	91.9	33°54.8'	121.7	14°48.5'	196.0	37°03.9'	234.0	40°03.7'	296.6
55	51°54.4'	27.9	31°22.2'	65.5	30°14.7'	92.2	34°44.2'	122.3	14°32.2'	196.5	36°16.1'	234.9	39°11.1'	296.6
56	52°21.3'	27.0	32°15.2'	65.5	31°12.9'	92.4	35°33.2'	122.9	14°15.5'	197.0	35°28.7'	235.8	38°19.5'	296.5
57	52°47.3'	26.1	33°08.2'	65.5	32°11.3'	92.7	36°22.0'	123.5	13°58.3'	197.4	34°40.4'	236.7	37°27.3'	296.5
58	53°12.5'	25.2	34°01.2'	65.5	33°09.2'	93.0	37°10.3'	124.1	13°40.4'	197.9	33°52.0'	237.6	36°35.1'	296.3
59	53°36.9'	24.3	34°54.2'	65.4	34°07.3'	93.2	37°58.3'	124.8	13°22.5'	198.4	33°03.1'	237.3	35°42.8'	296.1
*CAPELLA *POLLUX *PROCYON *SIRIUS *CANOPUS *DIPHA *HAMAL														
60	54°00.3'	23.3	35°47.1'	65.4	35°05.4'	93.5	38°45.9'	125.5	16°24.8'	158.2	32°14.0'	237.9	61°57.2'	294.1
61	54°22.9'	22.3	36°40.0'	65.3	36°03.5'	93.8	39°33.0'	126.2	16°06.2'	158.7	31°24.5'	238.6	61°03.9'	293.6
62	54°44.5'	21.3	37°32.9'	65.3	37°01.6'	94.1	40°19.8'	126.9	15°47.0'	159.2	30°34.7'	239.3	60°10.5'	293.2
63	55°05.5'	20.3	38°25.8'	65.2	37°59.6'	94.4	41°06.1'	127.7	15°27.6'	159.7	29°44.4'	239.9	59°16.9'	292.8
64	55°24.7'	19.3	39°18.6'	65.1	38°57.7'	94.7	41°51.9'	128.5	15°07.5'	160.2	28°54.4'	240.1	58°23.1'	292.4
65	55°43.2'	18.4	40°11.4'	65.0	39°55.7'	95.0	42°37.3'	129.3	14°46.9'	160.8	28°03.8'	240.6	57°29.2'	292.0
66	56°00.7'	16.9	41°04.2											

LHA	Ca	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
0	16°32.4'	45.4	23°14.9'	77.4	22°31.2'	144.4	16°57.8'	166.3	44°59.4'	199.0	29°04.2'	273.1	37°13.7'	317.9	90	17°56.5'	29.0	29°15.0'	83.5	18°59.3'	145.8	58°09.5'	158.8	66°06.6'	208.1	69°39.1'	282.6	55°49.1'	347.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
1	17°14.0'	45.4	24°12.0'	77.5	23°05.0'	145.0	17°11.3'	166.8	44°39.9'	200.1	28°05.8'	273.3	36°34.4'	317.6	91	18°24.9'	29.0	30°13.1'	83.7	19°32.0'	146.3	58°29.9'	160.5	65°38.1'	210.3	68°42.0'	282.3	55°35.4'	345.9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
2	17°55.7'	45.5	25°09.0'	77.6	23°08.4'	145.5	17°24.4'	167.4	44°19.3'	201.2	27°07.5'	273.5	35°84.8'	317.3	92	18°53.1'	28.9	31°11.3'	83.9	20°04.2'	146.8	58°48.6'	162.6	65°07.7'	212.3	67°44.9'	282.0	55°20.6'	344.7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
3	18°37.3'	45.6	26°06.2'	77.7	23°11.2'	146.1	17°36.9'	167.9	43°57.6'	202.3	26°09.1'	273.7	35°15.0'	317.0	93	19°21.3'	28.8	32°09.4'	84.0	20°36.0'	147.3	59°05.6'	164.6	64°35.6'	214.3	66°47.7'	281.7	55°04.6'	343.6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
4	19°19.0'	45.7	27°03.3'	77.9	23°43.5'	146.7	17°48.9'	169.4	43°34.9'	203.4	25°10.8'	273.9	34°35.0'	316.7	94	19°49.5'	28.7	33°07.5'	84.2	21°07.3'	147.9	59°20.3'	165.8	64°01.9'	216.1	65°50.4'	281.5	54°47.6'	342.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
5	20°00.7'	45.4	28°00.0'	78.0	25°15.3'	147.3	18°00.4'	168.0	43°11.1'	204.5	24°12.4'	274.1	33°54.8'	316.2	95	20°17.6'	28.7	34°05.7'	84.2	21°38.2'	148.4	59°34.3'	167.6	63°26.7'	217.9	64°53.1'	281.3	54°29.5'	341.4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
6	20°42.3'	45.4	28°57.7'	78.1	25°46.6'	147.9	18°11.3'	169.5	42°46.4'	205.5	23°14.1'	274.2	33°14.4'	316.2	96	20°45.6'	28.6	35°03.9'	84.5	22°08.6'	149.0	59°45.9'	169.6	62°50.1'	219.7	63°55.8'	281.1	54°10.3'	340.4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
7	21°23.9'	45.4	29°54.9'	78.2	26°17.4'	148.6	18°21.7'	170.0	42°20.8'	206.6	22°15.8'	274.4	32°33.9'	316.0	97	21°13.5'	28.6	36°02.1'	84.7	22°38.5'	149.5	59°55.5'	171.4	62°12.1'	221.3	62°58.4'	280.1	53°50.6'	339.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
8	22°05.5'	45.3	30°52.1'	78.3	26°47.6'	149.8	18°31.5'	170.6	41°54.2'	207.6	21°17.6'	274.6	31°53.2'	315.7	98	21°41.3'	28.3	37°00.3'	84.8	23°07.9'	150.1	60°03.4'	173.6	61°32.9'	229.9	62°01.4'	281.0	53°52.9'	338.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
9	22°47.0'	45.3	31°49.4'	78.4	27°17.2'	149.9	18°40.8'	171.1	41°26.7'	208.6	20°19.3'	274.8	31°12.3'	315.5	99	22°09.0'	28.2	37°58.5'	85.0	23°36.7'	150.7	60°09.3'	175.2	60°52.5'	224.4	61°03.6'	280.8	53°07.0'	337.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
10	23°28.5'	45.2	32°46.7'	78.5	27°46.3'	150.5	18°49.5'	171.7	40°58.3'	209.5	19°21.1'	275.0	30°31.3'	315.4	100	22°36.5'	28.1	38°56.8'	85.1	24°05.1'	151.3	60°13.3'	177.1	60°11.1'	225.8	60°06.1'	280.7	52°44.0'	336.4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
11	24°10.0'	45.1	33°44.0'	78.6	28°15.7'	151.2	18°57.7'	172.2	40°29.4'	210.5	18°22.8'	275.2	29°50.1'	315.2	101	23°04.0'	28.0	39°55.1'	85.2	24°32.9'	151.9	60°15.3'	179.0	59°28.7'	227.2	59°08.6'	280.6	52°20.1'	335.4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
12	24°51.4'	45.0	34°41.4'	78.7	28°42.6'	151.9	19°05.3'	172.8	39°59.0'	211.4	17°24.4'	275.4	29°08.9'	315.0	102	23°31.4'	27.8	40°53.3'	85.5	25°00.1'	152.6	60°15.3'	180.9	58°45.3'	229.5	58°11.2'	280.5	51°55.4'	334.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
13	25°32.7'	44.9	35°38.6'	78.8	29°09.9'	152.6	19°12.4'	173.4	39°28.1'	212.3	16°26.4'	275.6	28°27.5'	314.9	103	23°58.6'	27.4	41°51.6'	85.5	25°26.8'	153.2	60°13.3'	182.9	58°01.1'	229.8	57°13.7'	280.5	51°29.9'	333.6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
14	26°13.9'	44.8	36°36.0'	78.9	29°36.4'	153.3	19°18.9'	173.9	38°56.5'	213.2	15°28.3'	275.8	27°46.0'	314.7	104	24°25.6'	27.5	42°49.9'	85.8	25°52.8'	153.8	60°09.4'	184.8	57°16.0'	231.0	56°16.2'	280.4	51°03.5'	332.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
	<table border="1"> <thead> <tr> <th>CaPELLA</th> <th>*ALDEBARAN</th> <th>RIGEL</th> <th>ACHERNAR</th> <th>*FOMALHAUT</th> <th>Enif</th> <th>*DENEb</th> </tr> </thead> <tbody> <tr> <td>15</td> <td>26°55.1'</td> <td>44.7</td> <td>37°33.4'</td> <td>79.0</td> <td>23°07.3'</td> <td>104.9</td> <td>19°24.8'</td> <td>174.5</td> <td>38°24.1'</td> <td>214.1</td> <td>42°14.3'</td> <td>271.7</td> <td>27°04.4'</td> <td>314.6</td> <td>105</td> <td>24°52.5'</td> <td>27.3</td> <td>43°48.2'</td> <td>85.9</td> <td>26°18.3'</td> <td>154.5</td> <td>60°03.6'</td> <td>186.7</td> <td>56°30.2'</td> <td>232.2</td> <td>55°18.7'</td> <td>280.4</td> <td>50°36.6'</td> <td>331.9</td> </tr> <tr> <td>16</td> <td>27°36.1'</td> <td>44.6</td> <td>38°30.7'</td> <td>79.1</td> <td>23°07.3'</td> <td>105.2</td> <td>19°30.1'</td> <td>175.1</td> <td>37°51.0'</td> <td>214.9</td> <td>41°15.9'</td> <td>271.9</td> <td>26°22.7'</td> <td>314.0</td> <td>106</td> <td>25°19.3'</td> <td>27.1</td> <td>44°46.5'</td> <td>86.1</td> <td>26°43.2'</td> <td>155.1</td> <td>59°55.8'</td> <td>188.6</td> <td>55°43.7'</td> <td>233.3</td> <td>54°21.2'</td> <td>280.5</td> <td>50°08.5'</td> <td>331.1</td> </tr> <tr> <td>17</td> <td>28°17.1'</td> <td>44.4</td> <td>39°28.2'</td> <td>79.1</td> <td>25°00.1'</td> <td>105.6</td> <td>19°34.8'</td> <td>175.6</td> <td>37°17.1'</td> <td>215.8</td> <td>40°17.4'</td> <td>272.1</td> <td>25°41.0'</td> <td>314.4</td> <td>107</td> <td>25°45.9'</td> <td>26.9</td> <td>45°44.9'</td> <td>86.2</td> <td>27°07.5'</td> <td>155.8</td> <td>59°46.1'</td> <td>190.5</td> <td>54°56.5'</td> <td>234.3</td> <td>53°23.7'</td> <td>280.3</td> <td>49°39.9'</td> <td>330.3</td> </tr> <tr> <td>18</td> <td>28°58.0'</td> <td>44.3</td> <td>40°25.6'</td> <td>79.2</td> <td>25°56.3'</td> <td>105.9</td> <td>19°39.0'</td> <td>176.2</td> <td>36°42.6'</td> <td>216.6</td> <td>39°19.0'</td> <td>272.3</td> <td>24°59.1'</td> <td>314.3</td> <td>108</td> <td>26°12.3'</td> <td>26.7</td> <td>46°43.2'</td> <td>86.4</td> <td>27°31.1'</td> <td>156.5</td> <td>59°34.5'</td> <td>192.3</td> <td>54°08.7'</td> <td>235.3</td> <td>52°26.1'</td> <td>280.3</td> <td>49°10.7'</td> <td>329.6</td> </tr> <tr> <td>19</td> <td>29°38.7'</td> <td>44.1</td> <td>41°23.0'</td> <td>79.3</td> <td>26°52.5'</td> <td>106.3</td> <td>19°42.6'</td> <td>177.0</td> <td>36°07.4'</td> <td>217.4</td> <td>38°20.6'</td> <td>272.5</td> <td>23°50.1'</td> <td>314.2</td> <td>109</td> <td>26°38.5'</td> <td>26.5</td> <td>47°41.6'</td> <td>86.5</td> <td>27°54.1'</td> <td>157.2</td> <td>59°25.1'</td> <td>194.2</td> <td>53°21.7'</td> <td>236.3</td> <td>51°28.6'</td> <td>280.3</td> <td>48°40.8'</td> <td>328.9</td> </tr> <tr> <td>20</td> <td>30°19.3'</td> <td>43.9</td> <td>42°20.5'</td> <td>79.3</td> <td>27°48.5'</td> <td>106.7</td> <td>19°45.6'</td> <td>177.3</td> <td>35°31.3'</td> <td>218.2</td> <td>37°22.2'</td> <td>272.7</td> <td>23°35.3'</td> <td>314.1</td> <td>110</td> <td>27°04.3'</td> <td>26.3</td> <td>48°39.9'</td> <td>86.7</td> <td>28°16.4'</td> <td>157.9</td> <td>59°05.5'</td> <td>196.0</td> <td>52°31.4'</td> <td>237.1</td> <td>50°31.1'</td> <td>280.3</td> <td>48°10.1'</td> <td>328.1</td> </tr> <tr> <td>21</td> <td>30°59.8'</td> <td>43.7</td> <td>43°17.0'</td> <td>79.4</td> <td>28°44.5'</td> <td>107.1</td> <td>19°48.0'</td> <td>177.9</td> <td>34°55.2'</td> <td>218.9</td> <td>36°23.8'</td> <td>272.9</td> <td>22°52.5'</td> <td>314.0</td> <td>111</td> <td>27°30.3'</td> <td>26.1</td> <td>49°38.3'</td> <td>86.9</td> <td>28°38.1'</td> <td>158.6</td> <td>58°48.9'</td> <td>197.8</td> <td>51°42.0'</td> <td>238.1</td> <td>49°33.6'</td> <td>280.4</td> <td>47°43.9'</td> <td>327.5</td> </tr> <tr> <td>22</td> <td>31°40.1'</td> <td>43.5</td> <td>44°15.4'</td> <td>79.4</td> <td>29°40.3'</td> <td>107.4</td> <td>19°49.9'</td> <td>178.5</td> <td>34°18.1'</td> <td>219.7</td> <td>35°25.4'</td> <td>273.1</td> <td>22°11.2'</td> <td>314.0</td> <td>112</td> <td>27°55.9'</td> <td>25.9</td> <td>50°36.7'</td> <td>87.1</td> <td>28°59.1'</td> <td>159.3</td> <td>58°30.2'</td> <td>199.5</td> <td>50°52.2'</td> <td>239.0</td> <td>48°36.1'</td> <td>280.4</td> <td>47°07.3'</td> <td>326.8</td> </tr> <tr> <td>23</td> <td>32°20.3'</td> <td>43.3</td> <td>45°12.9'</td> <td>79.5</td> <td>30°36.0'</td> <td>107.8</td> <td>19°51.1'</td> <td>179.1</td> <td>33°40.5'</td> <td>220.4</td> <td>34°27.1'</td> <td>273.3</td> <td>21°29.1'</td> <td>313.9</td> <td>113</td> <td>28°21.3'</td> <td>25.6</td> <td>51°35.1'</td> <td>87.2</td> <td>29°19.3'</td> <td>160.1</td> <td>58°09.9'</td> <td>201.2</td> <td>50°01.1'</td> <td>240.9</td> <td>47°38.6'</td> <td>280.4</td> <td>46°35.9'</td> <td>326.1</td> </tr> <tr> <td>24</td> <td>33°00.3'</td> <td>43.1</td> <td>46°10.3'</td> <td>79.5</td> <td>31°31.6'</td> <td>108.2</td> <td>19°51.8'</td> <td>179.6</td> <td>33°02.3'</td> <td>221.1</td> <td>33°28.7'</td> <td>273.5</td> <td>20°47.0'</td> <td>313.9</td> <td>114</td> <td>28°46.5'</td> <td>25.5</td> <td>52°33.1'</td> <td>87.4</td> <td>29°38.9'</td> <td>160.8</td> <td>57°48.0'</td> <td>202.9</td> <td>49°11.8'</td> <td>242.6</td> <td>46°41.1'</td> <td>280.4</td> <td>46°02.2'</td> <td>325.5</td> </tr> <tr> <td>25</td> <td>33°40.1'</td> <td>42.8</td> <td>47°07.8'</td> <td>79.6</td> <td>32°27.1'</td> <td>108.7</td> <td>19°51.8'</td> <td>180.2</td> <td>32°23.6'</td> <td>221.8</td> <td>32°30.3'</td> <td>273.6</td> <td>20°04.9'</td> <td>313.9</td> <td>115</td> <td>29°11.4'</td> <td>25.1</td> <td>53°31.9'</td> <td>87.5</td> <td>29°57.7'</td> <td>161.6</td> <td>57°24.5'</td> <td>204.5</td> <td>48°20.0'</td> <td>241.4</td> <td>45°43.6'</td> <td>280.5</td> <td>45°28.9'</td> <td>324.9</td> </tr> <tr> <td>26</td> <td>34°19.7'</td> <td>42.6</td> <td>48°05.0'</td> <td>79.6</td> <td>33°22.4'</td> <td>109.1</td> <td>19°51.3'</td> <td>180.8</td> <td>31°44.4'</td> <td>222.5</td> <td>31°32.0'</td> <td>273.8</td> <td>19°22.7'</td> <td>313.9</td> <td>116</td> <td>29°39.1'</td> <td>24.8</td> <td>54°30.3'</td> <td>87.7</td> <td>30°15.8'</td> <td>162.3</td> <td>56°59.5'</td> <td>206.1</td> <td>47°28.5'</td> <td>242.1</td> <td>44°46.1'</td> <td>280.5</td> <td>44°55.0'</td> <td>324.8</td> </tr> <tr> <td>27</td> <td>34°59.2'</td> <td>42.4</td> <td>49°02.8'</td> <td>79.6</td> <td>34°17.6'</td> <td>109.5</td> <td>19°50.2'</td> <td>181.4</td> <td>31°04.6'</td> <td>223.2</td> <td>30°33.7'</td> <td>274.0</td> <td>18°40.4'</td> <td>313.9</td> <td>117</td> <td>30°00.5'</td> <td>24.6</td> <td>55°28.7'</td> <td>87.9</td> <td>30°33.2'</td> <td>163.1</td> <td>56°33.1'</td> <td>207.6</td> <td>46°36.6'</td> <td>242.8</td> <td>43°48.7'</td> <td>280.4</td> <td>44°20.5'</td> <td>323.4</td> </tr> <tr> <td>28</td> <td>35°38.4'</td> <td>42.0</td> <td>50°00.0'</td> <td>79.7</td> <td>35°12.6'</td> <td>110.0</td> <td>19°48.5'</td> <td>182.0</td> <td>30°24.4'</td> <td>223.8</td> <td>29°35.4'</td> <td>274.2</td> <td>17°58.4'</td> <td>313.8</td> <td>118</td> <td>30°24.7'</td> <td>24.3</td> <td>56°27.1'</td> <td>88.1</td> 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<td>304.6</td></tr></tbody></table></td></tr></tbody></table>											CaPELLA	*ALDEBARAN	RIGEL	ACHERNAR	*FOMALHAUT	Enif	*DENEb	15	26°55.1'	44.7	37°33.4'	79.0	23°07.3'	104.9	19°24.8'	174.5	38°24.1'	214.1	42°14.3'	271.7	27°04.4'	314.6	105	24°52.5'	27.3	43°48.2'	85.9	26°18.3'	154.5	60°03.6'	186.7	56°30.2'	232.2	55°18.7'	280.4	50°36.6'	331.9	16	27°36.1'	44.6	38°30.7'	79.1	23°07.3'	105.2	19°30.1'	175.1	37°51.0'	214.9	41°15.9'	271.9	26°22.7'	314.0	106	25°19.3'	27.1	44°46.5'	86.1	26°43.2'	155.1	59°55.8'	188.6	55°43.7'	233.3	54°21.2'	280.5	50°08.5'	331.1	17	28°17.1'	44.4	39°28.2'	79.1	25°00.1'	105.6	19°34.8'	175.6	37°17.1'	215.8	40°17.4'	272.1	25°41.0'	314.4	107	25°45.9'	26.9	45°44.9'	86.2	27°07.5'	155.8	59°46.1'	190.5	54°56.5'	234.3	53°23.7'	280.3	49°39.9'	330.3	18	28°58.0'	44.3	40°25.6'	79.2	25°56.3'	105.9	19°39.0'	176.2	36°42.6'	216.6	39°19.0'	272.3	24°59.1'	314.3	108	26°12.3'	26.7	46°43.2'	86.4	27°31.1'	156.5	59°34.5'	192.3	54°08.7'	235.3	52°26.1'	280.3	49°10.7'	329.6	19	29°38.7'	44.1	41°23.0'	79.3	26°52.5'	106.3	19°42.6'	177.0	36°07.4'	217.4	38°20.6'	272.5	23°50.1'	314.2	109	26°38.5'	26.5	47°41.6'	86.5	27°54.1'	157.2	59°25.1'	194.2	53°21.7'	236.3	51°28.6'	280.3	48°40.8'	328.9	20	30°19.3'	43.9	42°20.5'	79.3	27°48.5'	106.7	19°45.6'	177.3	35°31.3'	218.2	37°22.2'	272.7	23°35.3'	314.1	110	27°04.3'	26.3	48°39.9'	86.7	28°16.4'	157.9	59°05.5'	196.0	52°31.4'	237.1	50°31.1'	280.3	48°10.1'	328.1	21	30°59.8'	43.7	43°17.0'	79.4	28°44.5'	107.1	19°48.0'	177.9	34°55.2'	218.9	36°23.8'	272.9	22°52.5'	314.0	111	27°30.3'	26.1	49°38.3'	86.9	28°38.1'	158.6	58°48.9'	197.8	51°42.0'	238.1	49°33.6'	280.4	47°43.9'	327.5	22	31°40.1'	43.5	44°15.4'	79.4	29°40.3'	107.4	19°49.9'	178.5	34°18.1'	219.7	35°25.4'	273.1	22°11.2'	314.0	112	27°55.9'	25.9	50°36.7'	87.1	28°59.1'	159.3	58°30.2'	199.5	50°52.2'	239.0	48°36.1'	280.4	47°07.3'	326.8	23	32°20.3'	43.3	45°12.9'	79.5	30°36.0'	107.8	19°51.1'	179.1	33°40.5'	220.4	34°27.1'	273.3	21°29.1'	313.9	113	28°21.3'	25.6	51°35.1'	87.2	29°19.3'	160.1	58°09.9'	201.2	50°01.1'	240.9	47°38.6'	280.4	46°35.9'	326.1	24	33°00.3'	43.1	46°10.3'	79.5	31°31.6'	108.2	19°51.8'	179.6	33°02.3'	221.1	33°28.7'	273.5	20°47.0'	313.9	114	28°46.5'	25.5	52°33.1'	87.4	29°38.9'	160.8	57°48.0'	202.9	49°11.8'	242.6	46°41.1'	280.4	46°02.2'	325.5	25	33°40.1'	42.8	47°07.8'	79.6	32°27.1'	108.7	19°51.8'	180.2	32°23.6'	221.8	32°30.3'	273.6	20°04.9'	313.9	115	29°11.4'	25.1	53°31.9'	87.5	29°57.7'	161.6	57°24.5'	204.5	48°20.0'	241.4	45°43.6'	280.5	45°28.9'	324.9	26	34°19.7'	42.6	48°05.0'	79.6	33°22.4'	109.1	19°51.3'	180.8	31°44.4'	222.5	31°32.0'	273.8	19°22.7'	313.9	116	29°39.1'	24.8	54°30.3'	87.7	30°15.8'	162.3	56°59.5'	206.1	47°28.5'	242.1	44°46.1'	280.5	44°55.0'	324.8	27	34°59.2'	42.4	49°02.8'	79.6	34°17.6'	109.5	19°50.2'	181.4	31°04.6'	223.2	30°33.7'	274.0	18°40.4'	313.9	117	30°00.5'	24.6	55°28.7'	87.9	30°33.2'	163.1	56°33.1'	207.6	46°36.6'	242.8	43°48.7'	280.4	44°20.5'	323.4	28	35°38.4'	42.0	50°00.0'	79.7	35°12.6'	110.0	19°48.5'	182.0	30°24.4'	223.8	29°35.4'	274.2	17°58.4'	313.8	118	30°24.7'	24.3	56°27.1'	88.1	30°49.8'	163.9	56°05.3'	209.2	45°44.5'	243.5	42°51.1'	280.6	43°46.0'	323.3	29	36°17.4'	41.7	50°57.9'	79.7	36°07.5'	110.4	19°46.2'	182.5	29°43.7'	224.4	28°37.1'	274.4	17°16.2'	313.9	119	30°48.5'	24.0	57°25.2'	88.2	31°05.6'	164.7	55°36.1'	210.6	44°52.0'	244.2	41°53.7'	280.7	43°10.8'	322.8		<table 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15	26°55.1'	44.7	37°33.4'	79.0	23°07.3'	104.9	19°24.8'	174.5	38°24.1'	214.1	42°14.3'	271.7	27°04.4'	314.6	105	24°52.5'	27.3	43°48.2'	85.9	26°18.3'	154.5	60°03.6'	186.7	56°30.2'	232.2	55°18.7'	280.4	50°36.6'	331.9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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17	28°17.1'	44.4	39°28.2'	79.1	25°00.1'	105.6	19°34.8'	175.6	37°17.1'	215.8	40°17.4'	272.1	25°41.0'	314.4	107	25°45.9'	26.9	45°44.9'	86.2	27°07.5'	155.8	59°46.1'	190.5	54°56.5'	234.3	53°23.7'	280.3	49°39.9'	330.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
18	28°58.0'	44.3	40°25.6'	79.2	25°56.3'	105.9	19°39.0'	176.2	36°42.6'	216.6	39°19.0'	272.3	24°59.1'	314.3	108	26°12.3'	26.7	46°43.2'	86.4	27°31.1'	156.5	59°34.5'	192.3	54°08.7'	235.3	52°26.1'	280.3	49°10.7'	329.6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
19	29°38.7'	44.1	41°23.0'	79.3	26°52.5'	106.3	19°42.6'	177.0	36°07.4'	217.4	38°20.6'	272.5	23°50.1'	314.2	109	26°38.5'	26.5	47°41.6'	86.5	27°54.1'	157.2	59°25.1'	194.2	53°21.7'	236.3	51°28.6'	280.3	48°40.8'	328.9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
20	30°19.3'	43.9	42°20.5'	79.3	27°48.5'	106.7	19°45.6'	177.3	35°31.3'	218.2	37°22.2'	272.7	23°35.3'	314.1	110	27°04.3'	26.3	48°39.9'	86.7	28°16.4'	157.9	59°05.5'	196.0	52°31.4'	237.1	50°31.1'	280.3	48°10.1'	328.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
21	30°59.8'	43.7	43°17.0'	79.4	28°44.5'	107.1	19°48.0'	177.9	34°55.2'	218.9	36°23.8'	272.9	22°52.5'	314.0	111	27°30.3'	26.1	49°38.3'	86.9	28°38.1'	158.6	58°48.9'	197.8	51°42.0'	238.1	49°33.6'	280.4	47°43.9'	327.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
22	31°40.1'	43.5	44°15.4'	79.4	29°40.3'	107.4	19°49.9'	178.5	34°18.1'	219.7	35°25.4'	273.1	22°11.2'	314.0	112	27°55.9'	25.9	50°36.7'	87.1	28°59.1'	159.3	58°30.2'	199.5	50°52.2'	239.0	48°36.1'	280.4	47°07.3'	326.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
23	32°20.3'	43.3	45°12.9'	79.5	30°36.0'	107.8	19°51.1'	179.1	33°40.5'	220.4	34°27.1'	273.3	21°29.1'	313.9	113	28°21.3'	25.6	51°35.1'	87.2	29°19.3'	160.1	58°09.9'	201.2	50°01.1'	240.9	47°38.6'	280.4	46°35.9'	326.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
24	33°00.3'	43.1	46°10.3'	79.5	31°31.6'	108.2	19°51.8'	179.6	33°02.3'	221.1	33°28.7'	273.5	20°47.0'	313.9	114	28°46.5'	25.5	52°33.1'	87.4	29°38.9'	160.8	57°48.0'	202.9	49°11.8'	242.6	46°41.1'	280.4	46°02.2'	325.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
25	33°40.1'	42.8	47°07.8'	79.6	32°27.1'	108.7	19°51.8'	180.2	32°23.6'	221.8	32°30.3'	273.6	20°04.9'	313.9	115	29°11.4'	25.1	53°31.9'	87.5	29°57.7'	161.6	57°24.5'	204.5	48°20.0'	241.4	45°43.6'	280.5	45°28.9'	324.9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
26	34°19.7'	42.6	48°05.0'	79.6	33°22.4'	109.1	19°51.3'	180.8	31°44.4'	222.5	31°32.0'	273.8	19°22.7'	313.9	116	29°39.1'	24.8	54°30.3'	87.7	30°15.8'	162.3	56°59.5'	206.1	47°28.5'	242.1	44°46.1'	280.5	44°55.0'	324.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
27	34°59.2'	42.4	49°02.8'	79.6	34°17.6'	109.5	19°50.2'	181.4	31°04.6'	223.2	30°33.7'	274.0	18°40.4'	313.9	117	30°00.5'	24.6	55°28.7'	87.9	30°33.2'	163.1	56°33.1'	207.6	46°36.6'	242.8	43°48.7'	280.4	44°20.5'	323.4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
28	35°38.4'	42.0	50°00.0'	79.7	35°12.6'	110.0	19°48.5'	182.0	30°24.4'	223.8	29°35.4'	274.2	17°58.4'	313.8	118	30°24.7'	24.3	56°27.1'	88.1	30°49.8'	163.9	56°05.3'	209.2	45°44.5'	243.5	42°51.1'	280.6	43°46.0'	323.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
29	36°17.4'	41.7	50°57.9'	79.7	36°07.5'	110.4	19°46.2'	182.5	29°43.7'	224.4	28°37.1'	274.4	17°16.2'	313.9	119	30°48.5'	24.0	57°25.2'	88.2	31°05.6'	164.7	55°36.1'	210.6	44°52.0'	244.2	41°53.7'	280.7	43°10.8'	322.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
	<table border="1"> <thead> <tr> <th>Mirfak</th> <th>*CAPELLA</th> <th>ALDEBARAN</th> <th>RIGEL</th> <th>*ACHERNAR</th> <th>FOMALHAUT</th> <th>*Alphertz</th> </tr> </thead> <tbody> <tr> <td>30</td> <td>49°06.6'</td> <td>21.1</td> <td>36°56.2'</td> <td>41.4</td> <td>51°55.4'</td> <td>79.7</td> <td>37°02.2'</td> <td>110.9</td> <td>19°43.3'</td> <td>183.1</td> <td>29°02.6'</td> <td>225.0</td> <td>59°40.6'</td> <td>306.7</td> <td>120</td> <td>31°12.1'</td> <td>23.6</td> <td>34°15.1'</td> <td>81.2</td> <td>31°20.7'</td> <td>165.5</td> <td>55°05.7'</td> <td>212.1</td> <td>43°59.2'</td> <td>244.8</td> <td>40°56.3'</td> <td>280.8</td> <td>42°35.2'</td> <td>322.3</td> </tr> <tr> <td>31</td> <td>49°27.2'</td> <td>20.2</td> <td>37°34.7'</td> <td>41.0</td> <td>52°52.9'</td> <td>79.7</td> <td>37°56.7'</td> <td>111.4</td> <td>19°39.9'</td> <td>183.7</td> <td>28°21.0'</td> <td>225.6</td> <td>58°53.5'</td> <td>305.9</td> <td>121</td> <td>31°35.4'</td> <td>23.3</td> <td>35°12.9'</td> <td>81.3</td> <td>31°35.0'</td> <td>166.3</td> <td>54°34.1'</td> <td>213.4</td> <td>43°06.2'</td> <td>245.4</td> <td>39°58.9'</td> <td>280.8</td> <td>41°59.2'</td> <td>321.8</td> </tr> <tr> <td>32</td> <td>49°47.0'</td> <td>19.3</td> <td>38°13.0'</td> <td>40.7</td> <td>53°50.4'</td> <td>79.7</td> <td>38°51.0'</td> <td>111.9</td> <td>19°35.8'</td> <td>184.2</td> <td>27°39.0'</td> <td>226.2</td> <td>58°06.0'</td> <td>305.2</td> <td>122</td> <td>31°58.4'</td> <td>23.0</td> <td>36°10.3'</td> <td>81.3</td> <td>31°48.4'</td> <td>167.1</td> <td>54°01.3'</td> <td>214.8</td> <td>42°46.1'</td> <td>246.6</td> <td>39°01.1'</td> <td>280.9</td> <td>41°22.9'</td> <td>321.3</td> </tr> <tr> <td>33</td> <td>50°06.0'</td> <td>18.5</td> <td>38°50.9'</td> <td>40.3</td> <td>54°47.9'</td> <td>79.6</td> <td>39°45.1'</td> <td>112.5</td> <td>19°31.2'</td> <td>184.8</td> <td>26°56.5'</td> <td>226.8</td> <td>57°18.0'</td> <td>304.6</td></tr></tbody></table>											Mirfak	*CAPELLA	ALDEBARAN	RIGEL	*ACHERNAR	FOMALHAUT	*Alphertz	30	49°06.6'	21.1	36°56.2'	41.4	51°55.4'	79.7	37°02.2'	110.9	19°43.3'	183.1	29°02.6'	225.0	59°40.6'	306.7	120	31°12.1'	23.6	34°15.1'	81.2	31°20.7'	165.5	55°05.7'	212.1	43°59.2'	244.8	40°56.3'	280.8	42°35.2'	322.3	31	49°27.2'	20.2	37°34.7'	41.0	52°52.9'	79.7	37°56.7'	111.4	19°39.9'	183.7	28°21.0'	225.6	58°53.5'	305.9	121	31°35.4'	23.3	35°12.9'	81.3	31°35.0'	166.3	54°34.1'	213.4	43°06.2'	245.4	39°58.9'	280.8	41°59.2'	321.8	32	49°47.0'	19.3	38°13.0'	40.7	53°50.4'	79.7	38°51.0'	111.9	19°35.8'	184.2	27°39.0'	226.2	58°06.0'	305.2	122	31°58.4'	23.0	36°10.3'	81.3	31°48.4'	167.1	54°01.3'	214.8	42°46.1'	246.6	39°01.1'	280.9	41°22.9'	321.3	33	50°06.0'	18.5	38°50.9'	40.3	54°47.9'	79.6	39°45.1'	112.5	19°31.2'	184.8	26°56.5'	226.8	57°18.0'	304.6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Mirfak	*CAPELLA	ALDEBARAN	RIGEL	*ACHERNAR	FOMALHAUT	*Alphertz																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
30	49°06.6'	21.1	36°56.2'	41.4	51°55.4'	79.7	37°02.2'	110.9	19°43.3'	183.1	29°02.6'	225.0	59°40.6'	306.7	120	31°12.1'	23.6	34°15.1'	81.2	31°20.7'	165.5	55°05.7'	212.1	43°59.2'	244.8	40°56.3'	280.8	42°35.2'	322.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
31	49°27.2'	20.2	37°34.7'	41.0	52°52.9'	79.7	37°56.7'	111.4	19°39.9'	183.7	28°21.0'	225.6	58°53.5'	305.9	121	31°35.4'	23.3	35°12.9'	81.3	31°35.0'	166.3	54°34.1'	213.4	43°06.2'	245.4	39°58.9'	280.8	41°59.2'	321.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
32	49°47.0'	19.3	38°13.0'	40.7	53°50.4'	79.7	38°51.0'	111.9	19°35.8'	184.2	27°39.0'	226.2	58°06.0'	305.2	122	31°58.4'	23.0	36°10.3'	81.3	31°48.4'	167.1	54°01.3'	214.8	42°46.1'	246.6	39°01.1'	280.9	41°22.9'	321.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
33	50°06.0'	18.5	38°50.9'	40.3	54°47.9'	79.6	39°45.1'	112.5	19°31.2'	184.8	26°56.5'	226.8	57°18.0'	304.6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		

Table with columns LHA, Hc, Zn and rows of star data including names like CAPELLA, ALDEBARAN, ACAMAR, ACHERNAR, FOMALHAUT, ALTAIR, DENEBO.

Table with columns LHA, Hc, Zn and rows of star data including names like CAPELLA, ALDEBARAN, RIGEL, ACHERNAR, FOMALHAUT, ENIF, DENEBO.

Table with columns LHA, Hc, Zn and rows of star data including names like MIRAFA, CAPELLA, ALDEBARAN, RIGEL, ACHERNAR, FOMALHAUT, ALPHERTZ.

Table with columns LHA, Hc, Zn and rows of star data including names like CAPELLA, POLLUX, PROCYON, SIRIUS, ACHERNAR, DIPHDA, ALPHERTZ.

Table with columns LHA, Hc, Zn and rows of star data including names like CAPELLA, POLLUX, PROCYON, SIRIUS, CANOPUS, DIPHDA, HAMAL.

Table with columns LHA, Hc, Zn and rows of star data including names like CAPELLA, POLLUX, PROCYON, SIRIUS, CANOPUS, ACAMAR, HAMAL.

Table with columns LHA, Hc, Zn and rows of star data including names like DUBHE, REGULUS, SUHAII, SIRIUS, RIGEL, ALDEBARAN, CAPELLA.

Table with columns LHA, Hc, Zn and rows of star data including names like DUBHE, REGULUS, SUHAII, SIRIUS, RIGEL, ALDEBARAN, CAPELLA.

Table with columns LHA, Hc, Zn and rows of star data including names like DUBHE, DENEBO, SUHAII, SIRIUS, RIGEL, ALDEBARAN, CAPELLA.

Table with columns LHA, Hc, Zn and rows of star data including names like DUBHE, DENEBO, ARCTURUS, SPICA, SIRIUS, BETELGEUSE, CAPELLA.

Table with columns LHA, Hc, Zn and rows of star data including names like DUBHE, ALKAID, ARCTURUS, SPICA, SUHAII, SIRIUS, POLLUX.

Table with columns LHA, Hc, Zn and rows of star data including names like DUBHE, ARCTURUS, SPICA, ACRUX, SUHAII, PROCYON, POLLUX.

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
*Alkaid		*Alphecca		ANTARES		*ACRUX		REGULUS		*POLLUX		Dubhe		
180	46°34.7'	25.6°37'29.1"	65.8°13'53.6"	121.5°14'36.0"	176.8°62'58.1"	272.6°29'00.0"	295.5°39'21.7"	351.6°27'12.8"	351.6°27'12.8"	351.6°27'12.8"	351.6°27'12.8"	351.6°27'12.8"	351.6°27'12.8"	351.6°27'12.8"
181	46°59.8'	24.9°38'22.5"	65.4°14'43.6"	121.8°14'39.0"	177.2°61'59.5"	272.8°28'07.1"	295.5°39'12.8"	351.6°27'12.8"	351.6°27'12.8"	351.6°27'12.8"	351.6°27'12.8"	351.6°27'12.8"	351.6°27'12.8"	351.6°27'12.8"
182	47°24.2'	23.4°39'15.8"	65.8°15'33.4"	122.2°14'41.6"	177.7°61'00.9"	272.9°27'21.1"	295.5°39'03.3"	351.6°27'12.8"	351.6°27'12.8"	351.6°27'12.8"	351.6°27'12.8"	351.6°27'12.8"	351.6°27'12.8"	351.6°27'12.8"
183	47°47.8'	23.4°40'09.1"	65.1°16'23.0"	122.2°14'43.7"	178.2°60'02.2"	273.0°26'21.1"	295.5°38'53.3"	349.9°18'42.8"	349.9°18'42.8"	349.9°18'42.8"	349.9°18'42.8"	349.9°18'42.8"	349.9°18'42.8"	349.9°18'42.8"
184	48°10.7'	22.6°41'02.3"	65.0°17'12.4"	122.9°14'45.4"	178.6°59'03.6"	273.1°25'28.1"	295.5°38'42.7"	349.3°18'42.8"	349.3°18'42.8"	349.3°18'42.8"	349.3°18'42.8"	349.3°18'42.8"	349.3°18'42.8"	349.3°18'42.8"
185	48°32.9'	21.8°41'55.5"	64.8°18'01.5"	123.3°14'46.5"	179.1°58'05.0"	273.2°24'35.1"	295.5°38'31.4"	348.7°18'42.8"	348.7°18'42.8"	348.7°18'42.8"	348.7°18'42.8"	348.7°18'42.8"	348.7°18'42.8"	348.7°18'42.8"
186	48°54.3'	20.9°42'48.5"	64.7°18'50.5"	123.6°14'47.2"	179.6°57'06.4"	273.4°23'42.1"	295.5°38'19.8"	348.2°18'42.8"	348.2°18'42.8"	348.2°18'42.8"	348.2°18'42.8"	348.2°18'42.8"	348.2°18'42.8"	348.2°18'42.8"
187	49°14.8'	20.1°43'41.5"	64.6°19'39.3"	124.0°14'41.4"	180.0°56'07.9"	273.5°22'49.2"	295.5°38'07.5"	347.6°18'42.8"	347.6°18'42.8"	347.6°18'42.8"	347.6°18'42.8"	347.6°18'42.8"	347.6°18'42.8"	347.6°18'42.8"
188	49°34.6'	19.2°44'34.3"	64.4°20'27.8"	124.5°14'47.1"	180.5°56'09.3"	273.6°21'56.2"	295.5°37'54.7"	347.1°18'42.8"	347.1°18'42.8"	347.1°18'42.8"	347.1°18'42.8"	347.1°18'42.8"	347.1°18'42.8"	347.1°18'42.8"
189	49°53.5'	18.3°45'27.3"	64.0°21'16.0"	124.9°14'46.4"	181.0°56'10.7"	273.7°21'03.3"	295.5°37'41.3"	346.6°18'42.8"	346.6°18'42.8"	346.6°18'42.8"	346.6°18'42.8"	346.6°18'42.8"	346.6°18'42.8"	346.6°18'42.8"
190	50°11.5'	17.4°46'20.0"	63.8°22'04.1"	125.3°14'45.2"	181.4°53'12.2"	273.8°20'10.4"	295.5°37'27.4"	346.0°18'42.8"	346.0°18'42.8"	346.0°18'42.8"	346.0°18'42.8"	346.0°18'42.8"	346.0°18'42.8"	346.0°18'42.8"
191	50°28.7'	16.5°47'12.6"	63.1°22'51.8"	125.8°14'43.5"	181.9°52'13.6"	274.0°19'17.5"	295.5°37'13.0"	345.5°18'42.8"	345.5°18'42.8"	345.5°18'42.8"	345.5°18'42.8"	345.5°18'42.8"	345.5°18'42.8"	345.5°18'42.8"
192	50°44.9'	15.6°48'05.1"	63.3°23'39.3"	126.2°14'41.3"	182.4°51'15.1"	274.1°18'24.6"	295.5°36'58.1"	345.0°18'42.8"	345.0°18'42.8"	345.0°18'42.8"	345.0°18'42.8"	345.0°18'42.8"	345.0°18'42.8"	345.0°18'42.8"
193	51°00.2'	14.6°49'05.1"	63.0°24'26.5"	126.7°14'38.6"	182.8°50'16.5"	274.1°17'31.8"	295.5°36'42.7"	344.5°18'42.8"	344.5°18'42.8"	344.5°18'42.8"	344.5°18'42.8"	344.5°18'42.8"	344.5°18'42.8"	344.5°18'42.8"
194	51°14.5'	13.7°49'49.6"	62.7°25'13.5"	127.2°14'35.5"	183.3°49'18.0"	274.3°16'38.9"	295.5°36'26.8"	344.0°18'42.8"	344.0°18'42.8"	344.0°18'42.8"	344.0°18'42.8"	344.0°18'42.8"	344.0°18'42.8"	344.0°18'42.8"
*VEGA		Rasalhague		ANTARES		*RIGIL KENT		Gienah		*REGULUS		Dubhe		
195	11°48.5'	52.4°22'49.3"	81.3°26'00.1"	127.6°14'22.8"	167.6°58'29.5"	200.0°48'19.5"	274.4°36'10.4"	343.6°30'51.2"	343.6°30'51.2"	343.6°30'51.2"	343.6°30'51.2"	343.6°30'51.2"	343.6°30'51.2"	343.6°30'51.2"
196	12°35.0'	52.5°23'47.3"	81.3°26'46.4"	128.1°14'35.1"	168.1°58'08.6"	201.6°47'21.0"	274.6°35'53.3"	343.1°30'51.2"	343.1°30'51.2"	343.1°30'51.2"	343.1°30'51.2"	343.1°30'51.2"	343.1°30'51.2"	343.1°30'51.2"
197	13°21.6'	52.6°24'45.4"	81.6°27'32.4"	128.7°14'47.4"	168.6°57'46.2"	203.3°46'25.5"	274.7°35'36.2"	342.6°30'51.2"	342.6°30'51.2"	342.6°30'51.2"	342.6°30'51.2"	342.6°30'51.2"	342.6°30'51.2"	342.6°30'51.2"
198	14°08.2'	52.6°25'43.5"	81.7°28'18.0"	129.2°14'58.4"	169.0°57'22.2"	204.9°45'24.0"	274.8°35'18.5"	342.2°30'51.2"	342.2°30'51.2"	342.2°30'51.2"	342.2°30'51.2"	342.2°30'51.2"	342.2°30'51.2"	342.2°30'51.2"
199	14°54.8'	52.7°26'41.5"	81.9°29'03.3"	129.8°15'09.3"	169.5°56'28.6"	206.5°44'25.5"	274.9°35'00.3"	341.7°30'51.2"	341.7°30'51.2"	341.7°30'51.2"	341.7°30'51.2"	341.7°30'51.2"	341.7°30'51.2"	341.7°30'51.2"
200	15°41.5'	52.7°27'39.6"	82.0°29'48.3"	130.3°15'29.8"	170.0°56'01.9"	208.0°43'27.0"	275.1°34'41.6"	341.3°30'51.2"	341.3°30'51.2"	341.3°30'51.2"	341.3°30'51.2"	341.3°30'51.2"	341.3°30'51.2"	341.3°30'51.2"
201	16°28.2'	52.8°28'37.8"	82.1°30'32.8"	130.9°15'49.9"	170.4°56'29.1"	209.4°42'48.6"	275.2°34'26.3"	340.8°30'51.2"	340.8°30'51.2"	340.8°30'51.2"	340.8°30'51.2"	340.8°30'51.2"	340.8°30'51.2"	340.8°30'51.2"
202	17°14.9'	52.8°29'35.9"	82.3°31'17.0"	131.5°15'39.3"	170.9°55'32.1"	211.0°41'30.1"	275.3°34'03.1"	340.4°30'51.2"	340.4°30'51.2"	340.4°30'51.2"	340.4°30'51.2"	340.4°30'51.2"	340.4°30'51.2"	340.4°30'51.2"
203	18°01.7'	52.8°30'34.1"	82.4°32'00.7"	132.1°15'48.4"	171.4°55'01.3"	212.4°40'31.7"	275.4°33'43.3"	340.0°30'51.2"	340.0°30'51.2"	340.0°30'51.2"	340.0°30'51.2"	340.0°30'51.2"	340.0°30'51.2"	340.0°30'51.2"
204	18°48.4'	52.8°31'32.3"	83.1°32'44.1"	132.7°15'56.9"	171.9°54'29.2"	213.7°39'33.3"	275.6°33'25.0"	339.6°30'51.2"	339.6°30'51.2"	339.6°30'51.2"	339.6°30'51.2"	339.6°30'51.2"	339.6°30'51.2"	339.6°30'51.2"
205	19°35.2'	52.8°32'30.3"	83.2°33'27.0"	133.4°16'05.0"	172.4°53'56.1"	215.1°38'34.9"	275.7°33'02.4"	339.2°30'51.2"	339.2°30'51.2"	339.2°30'51.2"	339.2°30'51.2"	339.2°30'51.2"	339.2°30'51.2"	339.2°30'51.2"
206	20°22.0'	52.8°33'28.7"	83.3°34'09.4"	134.0°16'15.5"	172.8°53'21.8"	216.4°37'36.5"	275.8°32'41.4"	338.8°30'51.2"	338.8°30'51.2"	338.8°30'51.2"	338.8°30'51.2"	338.8°30'51.2"	338.8°30'51.2"	338.8°30'51.2"
207	21°08.7'	52.8°34'26.9"	83.4°34'51.4"	134.6°16'19.6"	173.3°52'46.5"	217.6°36'38.1"	276.0°32'00.0"	338.5°30'51.2"	338.5°30'51.2"	338.5°30'51.2"	338.5°30'51.2"	338.5°30'51.2"	338.5°30'51.2"	338.5°30'51.2"
208	21°55.4'	52.8°35'25.2"	83.3°35'32.8"	135.4°16'26.1"	173.8°52'10.2"	218.8°35'39.8"	276.1°31'58.3"	338.1°30'51.2"	338.1°30'51.2"	338.1°30'51.2"	338.1°30'51.2"	338.1°30'51.2"	338.1°30'51.2"	338.1°30'51.2"
209	22°42.2'	52.7°36'23.4"	83.2°36'13.8"	136.1°16'32.2"	174.3°51'33.0"	220.0°34'41.4"	276.2°31'36.3"	337.8°30'51.2"	337.8°30'51.2"	337.8°30'51.2"	337.8°30'51.2"	337.8°30'51.2"	337.8°30'51.2"	337.8°30'51.2"
*VEGA		Rasalhague		ANTARES		*RIGIL KENT		SPICA		*REGULUS		Dubhe		
210	23°28.9'	52.7°37'21.7"	83.3°36'54.2"	136.8°16'37.8"	174.8°56'16.3"	200.1°33'43.1"	276.4°31'13.9"	337.4°30'51.2"	337.4°30'51.2"	337.4°30'51.2"	337.4°30'51.2"	337.4°30'51.2"	337.4°30'51.2"	337.4°30'51.2"
211	24°15.5'	52.6°38'20.0"	83.3°37'34.0"	137.6°16'42.8"	175.3°56'45.1"	202.3°32'44.8"	276.5°30'51.2"	337.1°30'51.2"	337.1°30'51.2"	337.1°30'51.2"	337.1°30'51.2"	337.1°30'51.2"	337.1°30'51.2"	337.1°30'51.2"
212	25°02.1'	52.6°39'18.3"	83.3°38'13.3"	138.8°16'47.3"	175.8°56'43.1"	204.3°31'46.5"	276.6°30'28.1"	336.7°30'51.2"	336.7°30'51.2"	336.7°30'51.2"	336.7°30'51.2"	336.7°30'51.2"	336.7°30'51.2"	336.7°30'51.2"
213	25°48.7'	52.6°40'16.6"	83.3°38'52.0"	139.2°16'51.3"	176.3°56'46.6"	206.4°30'48.2"	276.8°30'04.8"	336.4°30'51.2"	336.4°30'51.2"	336.4°30'51.2"	336.4°30'51.2"	336.4°30'51.2"	336.4°30'51.2"	336.4°30'51.2"
214	26°35.3'	52.4°41'14.9"	83.3°39'30.1"	140.0°16'54.8"	176.8°56'39.6"	208.4°29'49.9"	276.9°29'41.2"	336.1°30'51.2"	336.1°30'51.2"	336.1°30'51.2"	336.1°30'51.2"	336.1°30'51.2"	336.1°30'51.2"	336.1°30'51.2"
215	27°21.7'	52.3°42'13.3"	83.3°40'07.5"	140.8°16'57.8"	177.3°56'31.0"	210.3°28'51.6"	277.1°29'17.1"	335.8°30'51.2"	335.8°30'51.2"	335.8°30'51.2"	335.8°30'51.2"	335.8°30'51.2"	335.8°30'51.2"	335.8°30'51.2"
216	28°08.1'	52.3°43'11.6"	83.4°40'44.2"	141.7°17'00.3"	177.8°56'24.3"	212.2°27'53.4"	277.2°28'53.1"	335.5°30'51.2"	335.5°30'51.2"	335.5°30'51.2"	335.5°30'51.2"	335.5°30'51.2"	335.5°30'51.2"	335.5°30'51.2"
217	28°54.5'	52.3°44'10.0"	84.1°41'20.2"	142.6°17'02.3"	178.3°56'20.8"	214.0°26'55.2"	277.3°28'28.7"	335.3°30'51.2"	335.3°30'51.2"	335.3°30'51.2"	335.3°30'51.2"	335.3°30'51.2"	335.3°30'51.2"	335.3°30'51.2"
218	29°40.7'	52.0°45'08.4"	84.2°41'55.5"	143.5°17'03.7"	178.9°56'13.4"	215.7°25'57.0"	277.5°28'04.0"	335.0°30'51.2"	335.0°30'51.2"	335.0°30'51.2"	335.0°30'51.2"	335.0°30'51.2"	335.0°30'51.2"	335.0°30'51.2"
219	30°26.9'	51.8°46'06.8"	84.3°42'30.1"	144.4°17'06.6"	179.4°56'06.7"	217.3°24'58.8"	277.6°27'39.1"	334.7°30'51.2"	334.7°30'51.2"	334.7°30'51.2"	334.7°30'51.2"	334.7°30'51.2"	334.7°30'51.2"	334.7°30'51.2"
220	31°13.0'	51.7°47'05.2"	84.3°43'03.9"	145.3°17'05.0"	179.9°56'03.7"	218.9°24'00.7"	277.8°27'19.3"	334.5°30'51.2"	334.5°30'51.2"	334.5°30'51.2"	334.5°30'51.2"	334.5°30'51.2"	334.5°30'51.2"	334.5°30'51.2"
221	31°59.0'	51.5°48'03.6"	84.3°43'36.9"	146.3°17'04.9"	180.4°55'46.2"	220.4°23'02.5"	277.9°26'48.5"	334.2°30'51.2"	334.2°30'51.2"	334.2°30'51.2"	334.2°30'51.2"	334.2°30'51.2"	334.2°30'51.2"	334.2°30'51.2"
222	32°44.9'	51.3°49'03.0"	84.4°44'09.0"	147.3°17'04.2"	180.9°55'07.6"	221.9°22'04.4"	278.1°26'22.9"	334.0°30'51.2"	334.0°30'51.2"	334.0°30'51.2"	334.0°30'51.2"	334.0°30'51.2"	334.0°30'51.2"	334.0°30'51.2"
223	33°30.6'	51.1°50'00.5"	84.4°44'40.3"	148.3°17'03.0"	181.4°54'58'27.9"	223.1°21'06.3"	278.2°25'57.1"	333.8°30'51.2"	333.8°30'51.2"	333.8°30'51.2"	333.8°30'51.2"	333.8°30'51.2"	333.8°30'51.2"	333.8°30'51.2"
224	34°16.2'	50.9°50'58.9"	84.4°45'10.6"	149.4°17'01.3"	181.9°54'47.7"	224.6°20'08.2"	278.4°25'31.0"	333.6°30'51.2"	333.6°30'51.2"	333.6°30'51.2"	333.6°30'51.2"	333.6°30'51.2"	333.6°30'51.2"	333.6°30'51.2"
*VEGA		ALTAIR		ANTARES		*RIGIL KENT		SPICA		*Denebola		Alkaid		
225	35°01.7'	50.7°51'24.4"	84.5°45'40.1"	150.4°16'59.5"	182.4°57'05.5"	225.9°43'47.6"	278.6°49'56.5"	341.8°30'51.2"	341.8°30'51.2"	341.8°30'51.2"	341.8°30'51.2"			

Table with 13 columns: LHA, Hc, Zn, *ALDEBARAN, Acamar, *ACHERNAR, *FOMALHAUT, ALTAIR, *DENEb. Rows 0-14.

Table with 13 columns: CAPELLA, *ALDEBARAN, RIGEL, *ACHERNAR, *FOMALHAUT, Enif, *DENEb. Rows 15-29.

Table with 13 columns: Mirfak, *CAPELLA, ALDEBARAN, RIGEL, *ACHERNAR, FOMALHAUT, *Alpheratz. Rows 30-44.

Table with 13 columns: CAPELLA, *POLLUX, PROCYON, SIRIUS, *ACHERNAR, Diphda, *Alpheratz. Rows 45-59.

Table with 13 columns: CAPELLA, *POLLUX, PROCYON, SIRIUS, *CANOPUS, Acamar, *Hamal. Rows 60-74.

Table with 13 columns: CAPELLA, *POLLUX, PROCYON, SIRIUS, *CANOPUS, Acamar, *Hamal. Rows 75-89.

Table with 13 columns: Dubhe, *REGULUS, Suhail, *SIRIUS, *RIGEL, ALDEBARAN, *CAPELLA. Rows 90-104.

Table with 13 columns: Dubhe, *REGULUS, Suhail, *SIRIUS, RIGEL, ALDEBARAN, *CAPELLA. Rows 105-119.

Table with 13 columns: Dubhe, *Denebola, Suhail, *SIRIUS, RIGEL, ALDEBARAN, *CAPELLA. Rows 120-134.

Table with 13 columns: Dubhe, *ARCTURUS, SPICA, *Suhail, SIRIUS, BETELGEUSE, *CAPELLA. Rows 135-149.

Table with 13 columns: *Dubhe, Alkaid, ARCTURUS, *SPICA, Suhail, *SIRIUS, POLLUX. Rows 150-164.

Table with 13 columns: *Dubhe, ARCTURUS, *SPICA, ACRUX, Suhail, *PROCYON, POLLUX. Rows 165-179.

Table with columns: LHA, Hc, Zn, *Alkaid, *Alphecca, ANTARES, *ACRUX, REGULUS, *POLLUX, Dubhe, *VEGA, Rasalhague, ANTARES, *RIGIL KENT, Gienah, *REGULUS, Dubhe, *DENEB, Alpheratz, *FOMALHAUT, Nunki, ANTARES, *Rasalhague, VEGA. Contains star coordinates and identifiers.

Table with columns: LHA, Hc, Zn, *Alkaid, *Alphecca, ANTARES, *ACRUX, REGULUS, *POLLUX, Dubhe, *VEGA, Rasalhague, ANTARES, *RIGIL KENT, Gienah, *REGULUS, Dubhe, *DENEB, Alpheratz, *FOMALHAUT, Nunki, ANTARES, *Rasalhague, VEGA. Contains star coordinates and identifiers.

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn														
0	14°25.4'	44.8	22°33.6'	76.1	24°56.9'	143.6	19°52.6'	166.1	47°49.1'	200.0	28°51.9'	274.7	34°58.7'	319.3												
1	15°07.1'	44.8	23°31.0'	76.2	25°31.7'	144.2	20°06.5'	166.6	47°28.3'	201.2	27°53.0'	274.9	34°20.0'	319.0												
2	15°48.7'	44.8	24°28.3'	76.3	26°06.1'	144.7	20°19.9'	167.1	47°06.4'	202.4	26°54.2'	275.0	33°41.1'	318.6												
3	16°30.3'	44.8	25°25.8'	76.3	26°36.9'	145.3	20°32.8'	167.7	46°43.4'	203.5	25°55.3'	275.3	33°02.0'	318.3												
4	17°11.9'	44.7	26°23.2'	76.4	27°13.3'	145.9	20°45.2'	168.2	46°19.3'	204.6	24°56.5'	275.3	32°22.6'	318.0												
5	17°53.5'	44.7	27°20.6'	76.4	27°48.5'	146.5	20°57.0'	168.8	45°54.1'	205.7	23°57.6'	275.4	31°43.2'	317.7												
6	18°35.1'	44.6	28°18.1'	76.5	28°18.5'	147.1	21°08.2'	169.3	45°28.0'	206.8	22°58.8'	275.5	31°03.1'	317.5												
7	19°16.6'	44.6	29°15.5'	76.5	28°50.3'	147.7	21°18.9'	169.8	45°00.0'	207.9	21°60.0'	275.7	30°23.1'	317.2												
8	19°58.0'	44.5	30°13.0'	76.6	29°21.6'	148.4	21°29.0'	170.4	44°32.8'	208.9	21°01.0'	275.8	29°42.9'	317.0												
9	20°39.4'	44.4	31°10.5'	76.6	29°52.3'	149.0	21°38.6'	171.0	44°03.8'	209.9	20°02.4'	275.9	29°02.5'	316.8												
10	21°20.7'	44.3	32°08.0'	76.7	30°22.4'	149.7	21°47.6'	171.5	43°33.9'	210.9	19°03.7'	276.1	28°21.9'	316.5												
11	22°01.9'	44.2	33°05.5'	76.7	30°51.9'	150.4	21°56.0'	172.1	43°03.1'	211.9	18°04.0'	276.2	27°41.2'	316.3												
12	22°43.3'	44.1	34°03.0'	76.7	31°20.8'	151.1	22°03.9'	172.7	42°31.5'	212.8	17°06.2'	276.3	27°01.3'	316.1												
13	23°24.1'	44.0	35°00.5'	76.7	31°49.0'	151.8	22°11.1'	173.3	41°59.1'	213.7	16°07.5'	276.4	26°21.9'	315.9												
14	24°05.1'	43.8	35°58.0'	76.7	32°16.7'	152.5	22°17.8'	173.8	41°25.9'	214.6	15°08.7'	276.6	25°38.1'	315.8												
													*CAPELLA		*ALDEBARAN		*RIGEL		*ACHERNAR		*FOMALHAUT		*ALTAIR		*DENEBO	
15	24°46.0'	43.7	36°55.5'	76.7	32°51.7'	153.2	22°23.9'	174.4	40°51.9'	215.5	42°04.6'	274.5	24°56.9'	315.6												
16	25°26.7'	43.5	37°53.0'	76.7	33°24.9'	154.0	22°29.4'	175.2	40°17.2'	216.4	41°05.7'	274.6	24°15.5'	315.3												
17	26°07.3'	43.3	38°50.5'	76.7	33°58.4'	154.8	22°34.3'	175.9	39°41.9'	217.2	40°06.8'	274.7	23°34.0'	315.3												
18	26°47.8'	43.2	39°48.0'	76.7	34°32.6'	155.6	22°38.6'	176.1	39°05.8'	218.0	39°07.9'	274.8	22°52.4'	315.2												
19	27°28.2'	43.0	40°45.5'	76.7	35°07.4'	156.4	22°42.3'	176.3	38°29.9'	218.8	38°09.0'	274.9	22°10.8'	315.1												
20	28°08.3'	42.8	41°43.0'	76.7	35°37.9'	157.2	22°45.4'	176.5	37°51.5'	219.6	37°11.0'	275.0	21°29.0'	315.0												
21	28°48.4'	42.6	42°40.5'	76.7	36°08.9'	158.0	22°47.9'	177.3	37°13.8'	220.3	36°11.3'	275.1	21°04.7'	314.9												
22	29°28.2'	42.3	43°38.0'	76.6	36°30.1'	158.8	22°49.8'	178.0	36°35.3'	221.1	35°12.4'	275.2	20°05.3'	314.8												
23	30°07.7'	42.2	44°35.5'	76.6	36°51.8'	159.6	22°51.3'	178.9	35°56.2'	221.8	34°13.6'	275.3	19°23.3'	314.7												
24	30°47.4'	41.8	45°33.0'	76.6	37°12.5'	160.4	22°52.5'	179.6	35°16.5'	222.5	33°14.7'	275.4	18°41.4'	314.7												
25	31°26.7'	41.5	46°30.4'	76.4	37°33.2'	161.2	22°53.3'	180.2	34°36.4'	223.2	32°15.9'	275.5	17°59.3'	314.6												
26	32°05.0'	41.4	47°27.9'	76.4	37°54.1'	162.0	22°53.3'	180.8	33°55.7'	223.8	31°17.1'	275.7	17°17.1'	314.6												
27	32°44.6'	41.2	48°25.3'	76.3	38°14.8'	162.8	22°52.0'	181.4	33°14.6'	224.5	30°18.3'	275.8	16°35.1'	314.5												
28	33°23.2'	41.0	49°22.7'	76.2	38°36.1'	163.6	22°49.4'	182.0	32°32.9'	225.1	29°19.5'	275.9	15°53.0'	314.5												
29	34°01.5'	40.8	50°20.0'	76.1	38°57.3'	164.4	22°46.0'	182.6	31°50.9'	225.7	28°20.8'	276.0	15°10.8'	314.5												
													*CAPELLA		*ALDEBARAN		*RIGEL		*ACHERNAR		*FOMALHAUT		*Enif		*DENEBO	
30	34°46.1'	40.7	51°17.4'	76.0	39°18.6'	165.2	22°41.1'	183.2	31°08.4'	226.3	27°48.3'	276.1	14°28.3'	314.5												
31	35°26.7'	40.5	52°14.9'	75.9	39°40.1'	166.0	22°36.3'	184.0	30°25.4'	226.9	26°07.0'	276.2	13°46.3'	314.5												
32	36°07.3'	40.3	53°12.4'	75.8	39°59.2'	166.8	22°31.1'	184.8	29°42.1'	227.4	24°25.6'	276.3	13°04.3'	314.5												
33	36°47.8'	40.1	54°10.9'	75.7	40°17.8'	167.6	22°25.5'	185.6	28°58.4'	228.0	22°45.3'	276.4	12°22.3'	314.5												
34	37°28.2'	39.9	55°09.4'	75.6	40°36.3'	168.4	22°19.5'	186.4	28°14.3'	228.5	22°05.4'	276.5	11°40.3'	314.4												
35	38°08.3'	39.7	56°08.9'	75.5	40°54.8'	169.2	22°13.0'	187.2	27°29.9'	229.0	21°25.3'	276.6	11°00.3'	314.4												
36	38°48.4'	39.5	57°08.4'	75.4	41°13.3'	170.0	22°06.0'	188.0	26°45.1'	229.5	20°45.3'	276.7	10°20.3'	314.4												
37	39°28.5'	39.3	58°07.9'	75.3	41°31.8'	170.8	22°00.6'	188.8	25°60.9'	230.0	20°05.3'	276.8	9°40.3'	314.4												
38	40°08.6'	39.1	59°07.4'	75.2	41°50.3'	171.6	21°54.1'	189.6	24°76.7'	230.5	19°25.3'	276.9	9°00.3'	314.4												
39	40°48.7'	38.9	60°06.9'	75.1	42°08.8'	172.4	21°47.0'	190.4	23°92.5'	231.0	18°45.3'	277.0	8°20.3'	314.4												
40	41°28.8'	38.7	61°06.4'	75.0	42°27.3'	173.2	21°39.5'	191.2	23°08.3'	231.5	18°05.3'	277.1	7°40.3'	314.4												
41	42°08.9'	38.5	62°05.9'	74.9	42°45.8'	174.0	21°31.6'	192.0	22°24.1'	232.0	17°25.3'	277.2	7°00.3'	314.4												
42	42°49.0'	38.3	63°05.4'	74.8	42°64.3'	174.8	21°23.1'	192.8	21°40.1'	232.5	16°45.3'	277.3	6°20.3'	314.4												
43	43°29.1'	38.1	64°04.9'	74.7	42°82.8'	175.6	21°14.6'	193.6	21°00.0'	233.0	16°05.3'	277.4	5°40.3'	314.4												
44	44°09.2'	37.9	65°04.4'	74.6	43°01.3'	176.4	21°06.1'	194.4	20°19.9'	233.5	15°25.3'	277.5	5°00.3'	314.4												
45	44°49.3'	37.7	66°03.9'	74.5	43°19.8'	177.2	20°57.6'	195.2	20°00.0'	234.0	15°05.3'	277.6	4°20.3'	314.4												
													*CAPELLA		*ALDEBARAN		*RIGEL		*ACHERNAR		*FOMALHAUT		*Dipha		*Alpheratz	
46	45°29.4'	37.5	67°03.4'	74.4	43°38.3'	178.0	20°48.1'	196.0	19°19.9'	234.5	14°46.3'	277.7	3°40.3'	314.4												
47	46°09.5'	37.3	68°02.9'	74.3	43°56.8'	178.8	20°38.1'	196.8	18°39.9'	235.0	13°58.3'	277.8	3°00.3'	314.4												
48	46°49.6'	37.1	69°02.4'	74.2	44°15.3'	179.6	20°27.1'	197.6	17°52.9'	235.5	13°16.3'	277.9	2°20.3'	314.4												
49	47°29.7'	36.9	70°01.9'	74.1	44°33.8'	180.4	20°15.1'	198.4	17°06.9'	236.0	12°34.3'	278.0	1°40.3'	314.4												
50	48°09.8'	36.7	71°01.4'	74.0	44°52.3'	181.2	20°02.1'	199.2	16°20.9'	236.5	11°52.3'	278.1	1°00.3'	314.4												
51	48°49.9'	36.5	72°00.9'	73.9	45°10.8'	182.0	19°48.1'	200.0	15°34.9'	237.0	11°10.3'	278.2	0°20.3'	314.4												
52	49°30.0'	36.3	73°00.4'	73.8	45°29.3'	182.8	19°33.1'	200.8	14°48.9'	237.5	10°28.3'	278.3	0°40.3'	314.4												
53	50°10.1'	36.1	74°00.0'	73.7	45°47.8'	183.6	19°17.1'	201.6	13°62.9'	238.0	9°46.3'	278.4	0°00.3'	314.4												
54	50°50.2'	35.9	75°00.0'	73.6	46°06.3'	184.4	19°00.1'	202.4	12°76.9'	238.5	8°64.3'	278.5	0°20.3'	314.4												
55	51°30.3'	35.7	76°00.0'	73.5	46°24.8'	185.2	18°42.1'	203.2	11°90.9'	239.0	7°82.3'	278.6	0°40.3'	314.4												
56	52°10.4'	35.5	77°00.0'	73.4	46°43.3'	186.0	18°23.1'	204.0	11°04.9'	239.5	7°00.3'	278.7	0°00.3'	314.4												
57	52°50.5'	35.3	78°00.0'	73.3	47°01.8'	186.8	18°03.1'	204.8	10°18.9'	240.0	6°18.3'	278.8	0°20.3'	314.4												
58	53°30.6'	35.1	79°00.0'	73.2	47°20.3'	187.6	17°42.1'	205.6	9°32.9'	240.5	5°36.3'	278.9	0°40.3'	314.4												
59	54°10.7'	34.9	80°00.0'	73.1	47°38.8'	188.4	17°21.1'	206.4	8°46.9'	241.0	4°54.3'	279.0	0°00.3'	314.4												
													*CAPELLA		*POLLUX		*PROCYON		*SIRIUS		*CANOPUS		*Dipha		*Alpheratz	
60	54°50.8'	34.7	81°00.0'	73.0	47°57.3'	189.2	17°00.1'	207.2	7°60.9'	241.5	4°12.3'	279.1	0°20.3'	314.4												
61	55°30.9'	34.5	82°00.0'	72.9	48°15.8'	190.0	16°38.1'	208.0	6°26.9'	242.0	3°30.3'	279.2	0°40.3'	314.4												
62	56°11.0'	34.3	83°00.0'	72.8	48°34.3'	190.8	16°15.1'	208.8	5°40.9'	242.5	2°48.3'	279.3	0°00.3'	314.4												
63	56°51.1'	34.1	84°00.0'	72.7	48°52.8'	191.6	15°51.1'	209.6	4°54.9'	243.0	2°06.3'	279.4	0°20.3'	314.4												
64	57°31.2'	33.9	85°00.0'	72.6	49°11.3'	192.4	15°26.1'	210.4	3°18.9'	243.5	1°24.3'	279.5	0°40.3'	314.4												
65	58°11.3'																									

Table with columns for LHA, Hc, Zn, and star names (e.g., *Alphecca, *ANTARES, *ACRUX, *REGULUS, *Deneb, *Nunki, *Shaula, *ANTARES, *ARCTURUS, *VEGA, *Rasalhague, *RIGIL KENT, *ACRUX, *REGULUS, *DUBHE, *DENEB, *ALPHERATZ, *FOMALHAUT, *Nunki, *ANTARES, *Rasalhague, *VEGA). Each row contains 24 columns of data representing celestial coordinates and star identifiers.

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn							
0	13°42.8'	44.7	22°19.0'	75.7	25°45.2'	143.4	20°50.8'	166.0	48°45.4'	200.4	28°46.7'	275.3	34°13.9'	319.8							
1	14°24.4'	44.6	23°16.4'	75.8	26°20.3'	143.9	21°04.9'	166.5	48°24.2'	201.6	27°47.7'	275.4	33°34.6'	319.4							
2	15°06.1'	44.6	24°13.9'	75.8	26°55.0'	144.5	21°18.4'	167.1	48°01.8'	202.8	26°48.7'	275.5	32°55.9'	319.1							
3	15°47.7'	44.6	25°11.3'	75.9	27°29.3'	145.0	21°31.4'	167.6	47°38.3'	203.9	25°49.7'	275.6	32°17.6'	318.8							
4	16°29.2'	44.5	26°08.8'	75.9	28°02.9'	145.6	21°43.9'	168.1	47°13.7'	205.1	24°50.7'	275.7	31°37.8'	318.5							
5	17°10.8'	44.5	27°06.3'	75.9	28°36.1'	146.2	21°55.8'	168.6	46°48.1'	206.2	23°51.8'	275.8	30°58.4'	318.2							
6	17°52.3'	44.4	28°03.8'	76.0	29°08.8'	146.8	22°07.2'	169.2	46°21.4'	207.3	22°52.8'	275.9	30°18.8'	317.9							
7	18°33.7'	44.3	29°01.3'	76.0	29°41.0'	147.4	22°18.0'	169.8	45°53.8'	208.3	21°53.9'	276.1	29°38.9'	317.6							
8	19°15.1'	44.2	29°58.8'	76.0	30°12.6'	148.1	22°28.2'	170.4	45°25.2'	209.4	20°54.9'	276.2	28°58.9'	317.4							
9	19°56.6'	44.1	30°56.3'	76.0	30°43.6'	148.7	22°37.9'	170.9	44°55.6'	210.4	19°56.0'	276.3	28°18.6'	317.1							
10	20°37.7'	44.0	31°53.8'	76.0	31°14.1'	149.4	22°47.0'	171.5	44°25.2'	211.4	18°57.1'	276.4	27°38.2'	316.9							
11	21°18.8'	43.9	32°51.3'	76.0	31°44.0'	150.1	22°55.5'	172.0	43°53.9'	212.4	17°58.3'	276.5	26°57.7'	316.7							
12	21°59.9'	43.8	33°48.8'	76.0	32°13.2'	150.8	23°03.4'	172.6	43°21.8'	213.3	16°59.4'	276.6	26°16.9'	316.5							
13	22°40.8'	43.7	34°46.3'	76.0	32°41.3'	151.5	23°10.7'	173.2	42°48.8'	214.2	16°00.5'	276.7	25°36.0'	316.3							
14	23°21.7'	43.5	35°43.9'	76.0	33°09.8'	152.2	23°17.5'	173.8	42°15.1'	215.1	15°01.7'	276.9	24°55.0'	316.1							
<table border="0" style="width:100%; border-collapse:collapse;"> <tr> <td style="width:33%; text-align:center;">*CAPELLA</td> <td style="width:33%; text-align:center;">*ALDEBARAN</td> <td style="width:33%; text-align:center;">RIGEL</td> <td style="width:33%; text-align:center;">*ACHERNAR</td> <td style="width:33%; text-align:center;">*FOMALHAUT</td> <td style="width:33%; text-align:center;">*ALTAIR</td> <td style="width:33%; text-align:center;">DENEBO</td> </tr> </table>															*CAPELLA	*ALDEBARAN	RIGEL	*ACHERNAR	*FOMALHAUT	*ALTAIR	DENEBO
*CAPELLA	*ALDEBARAN	RIGEL	*ACHERNAR	*FOMALHAUT	*ALTAIR	DENEBO															
15	24°02.5'	43.4	36°41.4'	76.0	34°05.6'	153.0	23°23.6'	174.3	41°40.6'	216.0	14°59.4'	277.3	24°13.9'	315.9							
16	24°43.1'	43.3	37°38.9'	76.0	34°33.3'	153.7	23°29.2'	174.9	41°05.4'	216.9	14°00.4'	277.4	23°32.6'	315.6							
17	25°23.6'	43.0	38°36.4'	76.0	35°01.0'	154.4	23°34.1'	175.5	40°29.5'	217.7	13°01.4'	277.5	22°51.2'	315.3							
18	26°03.9'	42.8	39°33.8'	75.9	35°28.5'	154.9	23°38.5'	176.1	39°52.9'	218.5	12°02.9'	277.6	22°09.7'	315.0							
19	26°44.1'	42.6	40°31.3'	75.9	35°55.6'	155.4	23°42.2'	176.7	39°15.7'	219.3	11°04.2'	277.7	21°28.2'	314.7							
20	27°24.2'	42.4	41°28.7'	75.8	36°22.3'	155.9	23°45.3'	177.3	38°37.8'	220.1	10°05.7'	277.8	20°46.5'	315.3							
21	28°04.0'	42.2	42°26.2'	75.8	36°49.4'	156.4	23°47.9'	177.9	37°59.4'	220.8	9°06.6'	277.9	20°04.5'	315.2							
22	28°43.7'	41.9	43°23.7'	75.7	37°16.5'	156.9	23°49.8'	178.4	37°20.3'	221.6	8°07.6'	278.0	19°22.9'	315.1							
23	29°23.2'	41.7	44°21.1'	75.6	37°43.4'	157.4	23°51.1'	179.0	36°40.4'	222.3	7°08.6'	278.1	18°41.1'	315.0							
24	30°02.5'	41.4	45°18.5'	75.5	38°10.2'	157.9	23°52.1'	179.6	36°00.6'	223.0	6°09.6'	278.2	17°59.1'	314.9							
25	30°41.6'	41.1	46°15.8'	75.4	38°37.0'	158.4	23°53.1'	180.2	35°20.0'	223.6	5°10.6'	278.3	17°17.1'	314.8							
26	31°20.5'	40.8	47°13.2'	75.3	39°03.8'	158.9	23°54.1'	180.8	34°38.8'	224.3	4°11.6'	278.4	16°35.0'	314.8							
27	31°59.1'	40.5	48°10.5'	75.2	39°30.6'	159.4	23°55.1'	181.4	33°57.2'	224.9	3°12.6'	278.5	15°52.9'	314.7							
28	32°37.7'	40.2	49°07.8'	75.1	39°57.4'	159.9	23°56.1'	182.0	33°15.1'	225.5	2°13.6'	278.6	15°10.8'	314.7							
29	33°15.5'	39.9	50°05.0'	74.9	40°24.2'	160.4	23°57.1'	182.6	32°32.6'	226.1	1°14.6'	278.7	14°28.7'	314.7							
<table border="0" style="width:100%; border-collapse:collapse;"> <tr> <td style="width:33%; text-align:center;">*CAPELLA</td> <td style="width:33%; text-align:center;">*ALDEBARAN</td> <td style="width:33%; text-align:center;">RIGEL</td> <td style="width:33%; text-align:center;">*ACHERNAR</td> <td style="width:33%; text-align:center;">*FOMALHAUT</td> <td style="width:33%; text-align:center;">Enif</td> <td style="width:33%; text-align:center;">*DENEBO</td> </tr> </table>															*CAPELLA	*ALDEBARAN	RIGEL	*ACHERNAR	*FOMALHAUT	Enif	*DENEBO
*CAPELLA	*ALDEBARAN	RIGEL	*ACHERNAR	*FOMALHAUT	Enif	*DENEBO															
30	45°21.4'	19.6	33°53.5'	39.5	51°02.2'	74.8	38°22.2'	108.0	23°43.0'	183.2	31°49.7'	226.7	57°08.8'	311.7							
31	45°40.0'	18.8	34°31.1'	39.2	51°59.4'	74.6	39°18.5'	108.4	23°39.4'	183.8	31°06.3'	227.3	56°24.3'	310.9							
32	45°59.6'	18.0	35°08.4'	38.8	52°56.5'	74.4	40°14.7'	108.8	23°35.2'	184.4	30°22.6'	227.9	55°39.2'	310.1							
33	46°17.5'	17.1	35°45.3'	38.4	53°53.5'	74.2	41°10.7'	109.3	23°30.4'	185.0	29°38.4'	228.4	54°53.6'	309.3							
34	46°34.3'	16.3	36°22.2'	38.0	54°50.5'	74.0	42°06.5'	109.7	23°24.9'	185.5	28°53.9'	228.9	54°07.7'	308.6							
35	46°50.7'	15.4	36°58.3'	37.6	55°47.5'	73.7	43°02.5'	110.2	23°18.9'	186.1	28°09.9'	229.4	53°21.0'	307.9							
36	47°06.1'	14.6	37°34.2'	37.1	56°44.5'	73.5	43°58.5'	110.7	23°12.3'	186.7	27°23.9'	229.9	52°34.7'	307.3							
37	47°20.5'	13.7	38°09.8'	36.7	57°41.1'	73.3	44°54.5'	111.2	23°05.1'	187.3	26°38.3'	230.4	51°46.7'	306.7							
38	47°34.1'	12.8	38°45.0'	36.2	58°37.8'	72.9	45°50.5'	111.7	22°57.3'	187.8	25°52.6'	230.9	50°59.0'	306.1							
39	47°46.8'	11.9	39°19.8'	35.7	59°34.3'	72.6	46°46.3'	112.2	22°48.9'	188.4	25°06.1'	231.3	50°10.0'	305.6							
40	47°58.6'	11.0	39°54.2'	35.2	60°30.8'	72.4	47°42.1'	112.7	22°40.0'	189.0	24°20.0'	231.8	49°22.6'	305.0							
41	48°09.4'	10.1	40°28.1'	34.7	61°27.2'	72.1	48°37.3'	113.2	22°30.4'	189.5	23°33.4'	232.2	48°33.9'	304.5							
42	48°19.3'	9.9	41°01.6'	34.1	62°23.4'	71.9	49°32.6'	113.7	22°20.3'	190.1	22°46.4'	232.7	47°44.9'	304.1							
43	48°28.2'	8.2	41°34.6'	33.6	63°19.5'	71.6	50°27.9'	114.2	22°09.7'	190.7	21°59.3'	233.2	46°55.7'	303.6							
44	48°36.2'	7.2	42°07.1'	33.0	64°15.4'	71.4	51°23.1'	114.7	21°58.4'	191.2	21°11.8'	233.7	46°06.3'	303.2							
<table border="0" style="width:100%; border-collapse:collapse;"> <tr> <td style="width:33%; text-align:center;">*CAPELLA</td> <td style="width:33%; text-align:center;">PROCYON</td> <td style="width:33%; text-align:center;">SIRIUS</td> <td style="width:33%; text-align:center;">*CANOPUS</td> <td style="width:33%; text-align:center;">*ACHERNAR</td> <td style="width:33%; text-align:center;">Diphda</td> <td style="width:33%; text-align:center;">*Alpheratz</td> </tr> </table>															*CAPELLA	PROCYON	SIRIUS	*CANOPUS	*ACHERNAR	Diphda	*Alpheratz
*CAPELLA	PROCYON	SIRIUS	*CANOPUS	*ACHERNAR	Diphda	*Alpheratz															
45	42°39.1'	32.4	20°26.0'	87.8	28°28.8'	114.7	14°33.4'	150.8	21°46.7'	191.7	47°06.4'	231.2	45°16.6'	302.8							
46	43°10.5'	31.7	21°25.2'	87.9	29°22.5'	115.1	15°02.1'	151.2	21°34.3'	192.3	46°20.0'	232.0	44°26.7'	302.4							
47	43°41.4'	31.1	22°24.4'	88.1	30°16.1'	115.5	15°30.5'	151.6	21°21.4'	192.8	45°33.1'	232.8	43°36.3'	302.1							
48	44°11.8'	30.4	23°23.6'	88.3	31°09.5'	115.9	15°58.5'	152.0	21°08.0'	193.4	44°44.5'	233.5	42°46.6'	301.8							
49	44°41.5'	29.8	24°22.9'	88.4	32°02.8'	116.3	16°26.5'	152.4	20°54.1'	193.9	43°57.8'	234.2	41°55.8'	301.4							
50	45°10.6'	29.1	25°22.1'	88.5	32°55.8'	116.7	16°53.3'	152.9	20°39.6'	194.4	43°09.5'	234.9	41°05.2'	301.1							
51	45°39.0'	28.3	26°21.4'	88.6	33°48.6'	117.1	17°20.1'	153.3	20°24.6'	194.9	42°20.8'	235.6	40°14.4'	300.9							
52	46°06.8'	27.6	27°20.6'	88.8	34°41.4'	117.5	17°46.6'	153.7	20°09.1'	195.4	41°31.7'	236.3	39°23.3'	300.6							
53	46°33.9'	26.8	28°19.8'	88.9	35°33.6'	117.8	18°12.6'	154.2	19°53.1'	195.9	40°42.2'	236.9	38°32.4'	300.4							
54	47°00.3'	26.0	29°19.1'	89.1	36°25.7'	118.1	18°38.2'	154.6	19°36.6'	196.4	39°52.4'	237.5	37°41.2'	300.1							
55	47°26.0'	25.3	30°18.4'	89.2	37°17.6'	119.2	19°03.4'	155.1	19°19.6'	196.9	39°02.3'	238.1	36°49.8'	299.9							
56	47°50.9'	24.4	31°17.6'	89.3	38°09.2'	119.7	19°28.2'	155.5	19°02.1'	197.4	38°11.8'	238.7	35°58.4'	299.7							
57	48°15.0'	23.6	32°16.9'	89.5	39°00.5'	120.1	19°52.5'	156.0	18°44.4'	197.9	37°21.1'	239.2	35°06.0'	299.5							
58	48°38.2'	22.7	33°16.1'	89.7	39°51.6'	120.6	20°26.1'	156.5	18°25.7'	198.3	36°30.0'	239.7	34°15.3'	299.3							
59	49°00.7'	21.8	34°15.4'	89.8	40°42.3'	121.4	20°59.7'	157.0	18°06.9'	198.8	35°38.7'	240.3	33°23.6'	299.2							
<table border="0" style="width:100%; border-collapse:collapse;"> <tr> <td style="width:33%; text-align:center;">*CAPELLA</td> <td style="width:33%; text-align:center;">POLLUX</td> <td style="width:33%; text-align:center;">PROCYON</td> <td style="width:33%; text-align:center;">*SIRIUS</td> <td style="width:33%; text-align:center;">CANOPUS</td> <td style="width:33%; text-align:center;">*Diphda</td> <td style="width:33%; text-align:center;">Alpheratz</td> </tr> </table>															*CAPELLA	POLLUX	PROCYON	*SIRIUS	CANOPUS	*Diphda	Alpheratz
*CAPELLA	POLLUX	PROCYON	*SIRIUS	CANOPUS	*Diphda	Alpheratz															
60	49°22.3'	20.9	33°34.7'	62.3	35°14.7'	90.4	41°32.7'	122.0	21°02.6'	157.5	34°47.1'	240.8	32°31.9'	299.0							
61	49°42.9'	20.0	34°27.2'	62.1	36°13.9'	90.2	42°22.8'	122.6	21°26.0'	158.0	33°55.3'	241.3	31°39.9'	298.9							
62	50°02.7'	19.0	35°19.5'	62.0	37°13.3'	90.0	43°12.5'	123.3	21°47.0'	158.5	33°03.2'	241.7	30°48.0'	298.7							
63	50°21.6'	18.1	36°11.8'	61.8	38°12.5'	90.5	44°01.9'	124.0	22°08.4'	159.1	32°10.0'	242.2	29°56.0'	298.6							
64	50°39.5'	17.3	37°04.0'	61.6	39°11.7'	90.6	44°50.8'	124.7	22°29.3'	159.6	31°18.4'	242.6	28°59.0'	298.5							
65	50°56.4'	16.6	37°56.1'	61.4	40°11.0'	90.8	45°39.4'	125.4	22°49.7'	160.2	30°25.7'	243.0	28°11.1'	298.4							
66	51°12.2'	15.8	38°48.0'	61.2	41°10.2'	91.0	46°27.4'	126.1	23°09.5'	160.7	29°32.7'	243.3	27°19.7'	298.3							
67	51°27.1'	14.0	39°39.9'	60.9	42°09.5'	91.2	47°15.0'	126.9	23°28.8'	161.3	28°39.6'	243.8	26°27.5'	298.2							
68	51°40.0'	13.0	40°31.6'	60.7	43°08.7'	91.3	48°02.2'</														

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn			
0	13°00.0'	44.5	22°04.0'	75.3	9°44.9'	99.8	21°49.0'	165.9	49°41.6'	200.8	28°40.9'	275.8			
1	13°41.7'	44.5	23°01.5'	75.4	10°43.4'	100.0	22°03.2'	166.4	49°19.9'	202.0	27°41.7'	275.9			
2	14°23.3'	44.2	23°59.0'	75.4	11°42.0'	100.1	22°16.9'	167.0	48°57.0'	203.2	26°42.7'	276.3			
3	15°04.9'	44.2	24°56.5'	75.4	12°40.4'	100.2	22°30.0'	167.5	48°33.1'	204.4	25°43.1'	276.3			
4	15°46.4'	44.2	25°54.0'	75.4	13°38.9'	100.2	22°42.6'	168.0	48°08.0'	205.2	24°44.5'	276.3			
5	16°27.9'	44.2	26°51.5'	75.4	14°37.3'	100.2	22°54.6'	168.6	47°41.8'	206.7	23°45.4'	276.3			
6	17°09.3'	44.2	27°49.0'	75.4	15°35.6'	100.9	23°06.1'	169.1	47°14.6'	207.8	22°46.4'	276.4			
7	17°50.7'	44.1	28°46.5'	75.5	16°34.0'	101.1	23°17.0'	169.7	46°46.5'	208.8	21°47.3'	276.5			
8	18°32.0'	44.0	29°44.0'	75.5	17°32.3'	101.3	23°27.3'	170.3	46°17.3'	209.9	20°48.3'	276.6			
9	19°13.3'	43.9	30°41.5'	75.5	18°30.5'	101.5	23°37.1'	170.8	45°47.3'	210.9	19°49.3'	276.7			
10	19°54.4'	43.8	31°39.0'	75.4	19°28.7'	101.7	23°46.3'	171.4	45°16.3'	211.9	18°50.3'	276.7			
11	20°35.5'	43.7	32°36.5'	75.4	20°26.9'	101.9	23°54.9'	172.0	44°44.4'	212.9	17°51.3'	276.8			
12	21°16.5'	43.5	33°34.0'	75.4	21°25.0'	102.1	24°02.9'	172.5	44°11.1'	213.8	16°52.3'	277.0			
13	21°57.3'	43.4	34°31.5'	75.4	22°23.1'	102.3	24°10.3'	173.1	43°38.3'	214.8	15°53.3'	277.1			
14	22°38.1'	43.2	35°29.0'	75.3	23°21.1'	102.5	24°17.1'	173.7	43°04.0'	215.7	14°54.3'	277.2			
			CAPELLA		ALDEBARAN		RIGEL		ACHERNAR		FOMALHAUT		*ALTAIR		*DENEB
15	23°18.7'	43.1	36°26.5'	75.3	24°19.1'	102.8	24°23.3'	174.3	42°29.0'	216.6	41°53.4'	276.2	23°30.6'	316.2	
16	23°59.2'	42.9	37°24.0'	75.5	25°17.0'	103.0	24°28.9'	174.9	41°53.2'	217.4	40°54.3'	276.3	22°49.5'	316.1	
17	24°39.6'	42.7	38°21.4'	75.2	26°14.9'	103.3	24°33.9'	175.5	41°16.8'	218.2	39°55.3'	276.3	22°08.2'	315.9	
18	25°19.8'	42.5	39°18.9'	75.1	27°12.7'	103.5	24°38.3'	176.1	40°39.7'	219.1	38°56.2'	276.4	21°26.8'	315.8	
19	25°59.8'	42.3	40°16.3'	75.1	28°10.4'	103.8	24°42.1'	176.7	40°01.9'	219.8	37°57.2'	276.4	20°45.3'	315.6	
20	26°39.7'	42.1	41°13.7'	75.0	29°08.1'	104.1	24°45.3'	177.2	39°23.2'	220.6	36°58.5'	276.5	20°03.8'	315.5	
21	27°19.4'	41.8	42°11.0'	74.9	30°05.7'	104.3	24°47.8'	177.8	38°44.6'	221.4	35°59.1'	276.5	19°22.1'	315.4	
22	27°59.0'	41.6	43°08.4'	74.8	31°03.2'	104.6	24°49.7'	178.4	38°05.1'	222.1	35°00.1'	276.6	18°40.3'	315.3	
23	28°38.3'	41.4	44°05.7'	74.7	32°00.7'	104.9	24°51.1'	179.0	37°25.0'	222.8	34°01.1'	276.7	17°58.5'	315.2	
24	29°17.4'	41.2	45°03.1'	74.6	32°58.2'	105.2	24°52.1'	179.6	36°44.3'	223.5	33°02.0'	276.7	17°16.6'	315.1	
25	29°56.3'	40.7	46°00.2'	74.4	33°55.3'	105.5	24°51.8'	180.2	36°03.2'	224.1	32°03.0'	276.8	16°34.7'	315.1	
26	30°35.0'	40.4	46°57.5'	74.3	34°52.5'	105.8	24°51.3'	180.8	35°21.6'	224.8	31°04.0'	276.9	15°52.7'	315.0	
27	31°13.4'	40.1	47°54.6'	74.1	35°49.7'	106.2	24°50.1'	181.4	34°39.5'	225.4	30°05.1'	276.9	15°10.6'	314.9	
28	31°51.6'	39.8	48°51.8'	74.0	36°46.7'	106.5	24°48.3'	182.0	33°57.0'	226.0	29°07.1'	277.0	14°28.6'	314.9	
29	32°29.5'	39.5	49°48.8'	73.8	37°43.6'	106.9	24°45.9'	182.6	33°14.0'	226.6	28°06.1'	277.1	13°46.4'	314.9	
			Mirfak		CAPELLA		ALDEBARAN		RIGEL		*ACHERNAR		FOMALHAUT		*Alpheratz
30	44°24.9'	19.2	33°07.1'	39.1	50°45.9'	73.6	38°40.4'	107.2	24°42.9'	183.2	32°30.6'	227.2	56°28.5'	312.8	
31	44°44.4'	18.4	33°44.4'	38.7	51°42.8'	73.4	39°37.1'	107.6	24°39.3'	183.8	31°46.8'	227.8	55°44.6'	312.0	
32	45°02.5'	17.6	34°21.3'	38.4	52°39.7'	73.1	40°33.6'	108.0	24°35.0'	184.4	31°02.6'	228.3	55°00.2'	311.2	
33	45°20.2'	16.8	34°58.2'	38.0	53°36.5'	72.9	41°30.1'	108.4	24°30.1'	185.0	30°18.1'	228.8	54°15.2'	310.4	
34	45°36.9'	16.0	35°34.6'	37.5	54°33.3'	72.6	42°26.4'	108.9	24°24.7'	185.6	29°33.2'	229.3	53°29.7'	309.7	
35	45°52.8'	15.2	36°10.6'	37.1	55°29.9'	72.3	43°22.5'	109.3	24°18.6'	186.2	28°48.0'	229.8	52°43.7'	309.0	
36	46°08.0'	14.4	36°46.6'	36.6	56°26.5'	72.0	44°18.5'	109.8	24°11.9'	186.7	28°02.4'	230.3	51°57.3'	308.3	
37	46°22.2'	13.5	37°21.3'	36.2	57°23.0'	71.7	45°14.3'	110.2	24°04.6'	187.3	27°16.5'	230.8	51°01.1'	307.6	
38	46°35.6'	12.6	37°56.5'	35.7	58°19.3'	71.3	46°10.0'	110.7	23°56.8'	187.9	26°30.3'	231.2	50°23.2'	307.1	
39	46°48.4'	11.7	38°30.9'	35.2	59°15.6'	71.0	47°05.5'	111.2	23°48.3'	188.5	25°43.9'	231.7	49°45.7'	306.5	
40	46°59.7'	10.8	39°05.0'	34.7	60°11.7'	70.7	48°00.8'	111.7	23°39.9'	189.0	24°57.1'	232.1	48°67.7'	306.0	
41	47°10.3'	9.9	39°38.6'	34.2	61°07.6'	70.4	48°55.8'	112.3	23°29.6'	189.6	24°10.1'	232.5	47°49.5'	305.5	
42	47°20.1'	09.0	40°11.8'	33.6	62°03.4'	69.9	49°50.7'	112.9	23°19.4'	190.2	23°22.8'	232.9	47°10.9'	305.0	
43	47°28.8'	08.4	40°44.3'	33.1	62°59.0'	69.5	50°45.3'	113.5	23°08.6'	190.7	22°35.3'	233.3	46°22.1'	304.5	
44	47°36.7'	07.1	41°16.6'	32.5	63°54.3'	68.5	51°39.6'	114.2	22°57.3'	191.3	21°47.5'	233.7	45°33.0'	304.1	
			*CAPELLA		PROCYON		SIRIUS		*CANOPUS		ACHERNAR		Diphda		*Alpheratz
45	41°48.3'	31.9	20°23.5'	87.4	28°53.6'	114.2	15°25.8'	150.7	22°45.6'	191.8	47°43.7'	232.0	44°43.7'	303.7	
46	42°19.4'	31.3	21°22.8'	87.5	29°47.7'	114.6	15°54.7'	151.1	22°32.9'	192.4	46°56.6'	232.8	43°54.1'	303.3	
47	42°49.9'	30.6	22°22.2'	87.7	30°41.7'	114.9	16°23.2'	151.5	22°19.9'	192.9	46°09.0'	233.6	43°04.3'	302.9	
48	43°19.9'	30.0	23°21.6'	87.8	31°35.5'	115.3	16°51.4'	151.9	22°06.4'	193.4	45°21.0'	234.3	42°14.3'	302.5	
49	43°49.3'	29.3	24°20.9'	87.9	32°29.1'	115.7	17°19.2'	152.3	21°52.3'	194.0	44°32.5'	235.0	41°24.2'	302.2	
50	44°18.1'	28.6	25°20.3'	88.0	33°22.5'	116.2	17°46.6'	152.7	21°37.7'	194.5	43°43.6'	235.7	40°33.8'	301.6	
51	44°46.1'	27.9	26°19.7'	88.2	34°15.7'	116.6	18°13.7'	153.1	21°22.6'	195.0	42°54.4'	236.4	39°43.3'	301.6	
52	45°13.5'	27.1	27°19.1'	88.3	35°08.8'	117.0	18°40.4'	153.6	21°06.9'	195.5	42°04.7'	237.0	38°52.6'	301.3	
53	45°40.4'	26.4	28°18.5'	88.4	36°01.6'	117.5	19°06.6'	154.0	20°50.8'	196.0	41°14.7'	237.6	38°01.7'	301.0	
54	46°06.3'	25.6	29°17.9'	88.5	36°54.2'	118.0	19°32.4'	154.5	20°34.1'	196.5	40°24.3'	238.2	37°10.8'	300.8	
55	46°31.3'	24.8	30°17.3'	88.7	37°46.5'	118.5	19°57.8'	154.9	20°17.0'	197.0	39°33.7'	238.8	36°19.6'	300.5	
56	46°56.1'	24.0	31°16.7'	88.8	38°38.6'	119.0	20°22.8'	155.4	19°59.3'	197.5	38°42.7'	239.3	35°28.4'	300.3	
57	47°19.9'	23.2	32°16.1'	89.0	39°30.4'	119.5	20°27.4'	155.9	19°41.2'	198.0	37°51.5'	239.9	34°37.1'	300.1	
58	47°42.8'	22.3	33°15.5'	89.1	40°22.0'	120.1	21°11.3'	156.4	19°22.7'	198.5	36°59.9'	240.4	33°45.6'	299.9	
59	48°04.9'	21.4	34°14.9'	89.2	41°13.3'	120.7	21°34.9'	156.9	19°03.6'	198.9	36°08.2'	240.9	32°54.1'	299.7	
			*CAPELLA		POLLUX		PROCYON		*SIRIUS		CANOPUS		*Diphda		Alpheratz
60	48°26.1'	20.5	33°06.6'	61.7	35°14.3'	89.3	34°02.4'	121.2	21°58.0'	157.4	35°16.1'	241.4	32°02.4'	299.6	
61	48°46.5'	19.6	33°58.9'	61.5	36°13.7'	89.4	34°54.8'	121.9	22°20.6'	157.9	34°23.8'	241.3	31°10.7'	299.4	
62	49°05.9'	18.6	34°51.1'	61.4	37°13.1'	89.6	35°45.1'	122.5	22°42.8'	158.4	33°31.4'	242.3	30°18.9'	299.2	
63	49°24.5'	17.7	35°43.4'	61.2	38°12.5'	89.7	36°35.1'	123.2	23°04.4'	158.9	32°38.6'	242.7	29°27.0'	299.1	
64	49°42.0'	16.7	36°35.1'	60.9	39°12.0'	89.8	37°24.6'	123.8	23°25.5'	159.5	31°45.7'	243.2	28°35.1'	299.0	
65	49°58.6'	15.7	37°27.2'	60.7	40°11.4'	90.0	38°13.8'	124.6	23°46.1'	160.0	30°52.6'	243.6	27°43.1'	298.8	
66	50°14.3'	14.7	38°18.8'	60.5	41°10.8'	90.1	39°02.5'	125.3	24°06.1'	160.6	29°59.3'	244.0			

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 0-14 with star names like *CAPELLA, *ACHERNAR, *FOMALHAUT, *ALTAIR, *DENEBO.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 15-29 with star names like CAPELLA, *ALDEBARAN, RIGEL, *ACHERNAR, *FOMALHAUT, Enif, *DENEBO.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 30-44 with star names like Mirfak, CAPELLA, *ALDEBARAN, RIGEL, *ACHERNAR, FOMALHAUT, *Alpheratz.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 45-59 with star names like *CAPELLA, PROCYON, SIRIUS, *CANOPUS, ACHERNAR, Diphda, *Alpheratz.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 60-74 with star names like *CAPELLA, POLLUX, PROCYON, *SIRIUS, CANOPUS, *Diphda, Alpheratz.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 75-89 with star names like CAPELLA, *POLLUX, PROCYON, SIRIUS, *CANOPUS, Acamar, *Hamal.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 90-104 with star names like POLLUX, *REGULUS, Suhail, *CANOPUS, Acamar, *ALDEBARAN, CAPELLA.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 105-119 with star names like POLLUX, *REGULUS, Suhail, *CANOPUS, RIGEL, ALDEBARAN, *CAPELLA.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 120-134 with star names like Dubhe, *Denebola, Suhail, *SIRIUS, RIGEL, ALDEBARAN, *CAPELLA.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 135-149 with star names like Dubhe, *ARCTURUS, SPICA, *Suhail, SIRIUS, BETELGEUSE, *CAPELLA.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 150-164 with star names like Dubhe, *ARCTURUS, SPICA, ACRUX, *Suhail, SIRIUS, *POLLUX.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows 165-179 with star names like Dubhe, *ARCTURUS, SPICA, *ACRUX, Suhail, PROCYON, *POLLUX.

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
180	54°17.6'	65.4'	16°57.1'	120.0'	16°07.1'	160.9'	20°35.4'	176.7'	27°11.9'	213.7'	62°05.4'	284.1'	33°25.3'	352.2'
181	55°11.7'	64.9'	17°49.5'	120.3'	16°26.4'	161.3'	20°38.6'	177.1'	26°38.6'	214.2'	61°07.5'	283.7'	33°16.9'	351.7'
182	56°05.6'	64.3'	18°40.9'	120.6'	16°45.4'	161.7'	20°41.3'	177.6'	26°04.9'	214.7'	60°09.5'	283.4'	33°08.0'	351.1'
183	56°59.6'	63.8'	19°32.2'	120.9'	17°03.9'	162.1'	20°43.5'	178.1'	25°30.7'	215.2'	59°11.4'	283.2'	32°58.5'	350.6'
184	57°52.7'	63.2'	20°23.4'	121.2'	17°22.1'	162.5'	20°45.8'	178.6'	24°56.1'	215.7'	58°13.3'	282.9'	32°48.5'	350.1'
185	58°45.8'	62.6'	21°14.1'	121.5'	17°43.9'	162.9'	20°48.1'	179.1'	24°21.1'	216.1'	57°15.1'	282.6'	32°37.9'	349.5'
186	59°38.6'	61.9'	22°05.2'	121.8'	17°57.2'	163.3'	20°50.2'	179.6'	23°45.7'	216.6'	56°16.8'	282.4'	32°26.9'	349.0'
187	60°31.3'	61.2'	22°55.8'	122.1'	18°14.2'	163.7'	20°52.4'	180.0'	23°09.9'	217.1'	55°18.5'	282.2'	32°15.2'	348.5'
188	61°23.1'	60.4'	23°46.3'	122.4'	18°33.7'	164.1'	20°54.7'	180.5'	22°33.8'	217.5'	54°20.2'	282.0'	32°03.1'	348.0'
189	62°14.8'	59.6'	24°36.6'	122.8'	18°54.8'	164.6'	20°56.3'	181.0'	21°57.3'	217.9'	53°21.8'	281.8'	31°50.4'	347.5'
190	63°06.0'	58.7'	25°26.6'	123.1'	19°02.5'	165.0'	20°58.1'	181.5'	21°20.5'	218.3'	52°23.4'	281.7'	31°37.3'	347.0'
191	63°56.6'	57.8'	26°16.5'	123.5'	19°17.7'	165.4'	20°59.3'	182.0'	20°43.3'	218.7'	51°25.0'	281.5'	31°23.6'	346.5'
192	64°47.0'	56.7'	27°06.6'	123.9'	19°32.5'	165.9'	20°59.8'	182.4'	20°05.8'	219.1'	50°26.8'	281.3'	31°09.5'	346.0'
193	65°36.5'	55.6'	27°56.6'	124.3'	19°48.1'	166.3'	20°38.2'	182.9'	19°28.0'	219.5'	49°26.2'	281.3'	30°54.8'	345.6'
194	66°25.5'	54.5'	28°44.8'	124.7'	20°00.7'	166.8'	20°34.9'	183.4'	18°49.8'	219.9'	48°29.4'	281.1'	30°39.7'	345.1'
195	47°37.8'	56.4'	21°47.2'	78.9'	29°33.7'	125.1'	20°14.2'	167.2'	20°31.1'	183.9'	47°30.9'	281.0'	30°24.1'	344.6'
196	48°27.3'	55.8'	22°45.7'	79.3'	30°22.4'	125.5'	20°16.1'	167.7'	20°26.8'	184.3'	46°32.3'	280.9'	30°08.1'	344.2'
197	49°16.5'	55.3'	23°44.3'	79.7'	31°10.9'	126.0'	20°17.6'	168.2'	20°22.1'	184.8'	45°33.7'	280.8'	29°51.6'	343.7'
198	50°05.4'	54.7'	24°42.8'	79.9'	31°59.0'	126.4'	20°18.6'	168.6'	20°16.8'	185.3'	44°35.1'	280.8'	29°34.7'	343.3'
199	50°54.2'	54.0'	25°41.4'	80.1'	32°46.8'	126.8'	20°19.6'	169.0'	20°11.1'	185.8'	43°36.5'	280.7'	29°17.3'	342.9'
200	51°42.2'	53.2'	26°40.0'	80.3'	33°34.4'	127.2'	20°20.4'	169.4'	20°04.8'	186.2'	42°37.8'	280.6'	28°59.5'	342.4'
201	52°29.9'	52.5'	27°38.5'	80.5'	34°21.6'	127.6'	20°21.4'	169.8'	19°58.1'	186.7'	41°39.2'	280.6'	28°41.1'	342.0'
202	53°17.3'	51.7'	28°37.1'	80.7'	35°08.5'	128.0'	20°22.4'	170.2'	19°50.9'	187.2'	40°40.5'	280.5'	28°22.7'	341.6'
203	54°04.2'	51.0'	29°35.7'	80.9'	35°55.0'	128.4'	20°23.4'	170.6'	19°43.2'	187.6'	39°41.8'	280.5'	28°03.6'	341.2'
204	54°50.6'	50.2'	30°34.2'	81.1'	36°41.8'	128.8'	20°24.4'	171.0'	19°35.1'	188.1'	38°43.1'	280.4'	27°44.2'	340.8'
205	55°36.4'	49.4'	31°32.8'	81.3'	37°27.0'	129.2'	20°25.4'	171.4'	19°26.5'	188.5'	37°44.4'	280.4'	27°24.4'	340.4'
206	56°21.8'	48.6'	32°31.4'	81.5'	38°12.4'	129.6'	20°26.4'	171.8'	19°17.4'	189.0'	36°45.7'	280.3'	27°04.2'	340.0'
207	57°06.6'	47.8'	33°29.9'	81.7'	38°98.4'	130.0'	20°27.4'	172.2'	19°07.9'	189.4'	35°47.0'	280.3'	26°43.7'	339.6'
208	57°50.6'	47.0'	34°28.5'	81.9'	39°31.4'	130.4'	20°28.4'	172.6'	18°97.9'	189.8'	34°48.3'	280.3'	26°22.8'	339.2'
209	58°34.0'	46.1'	35°27.1'	82.1'	40°26.0'	130.8'	20°29.4'	173.0'	18°87.4'	190.3'	33°49.6'	280.3'	26°01.6'	338.8'
210	19°45.9'	50.8'	36°25.6'	78.8'	41°09.6'	133.4'	22°36.2'	174.6'	18°36.5'	190.7'	32°50.9'	280.3'	25°40.0'	338.6'
211	20°32.1'	50.7'	37°24.1'	78.8'	41°52.7'	134.1'	22°41.6'	175.1'	18°25.2'	191.2'	31°52.2'	280.3'	25°18.1'	338.3'
212	21°18.2'	50.6'	38°22.6'	78.9'	42°35.8'	134.9'	22°46.3'	175.7'	18°13.4'	191.6'	30°53.5'	280.3'	24°55.8'	338.0'
213	22°04.2'	50.4'	39°21.1'	79.0'	43°28.9'	135.7'	22°51.0'	176.3'	18°01.2'	192.0'	29°54.8'	280.3'	24°33.3'	337.6'
214	22°50.2'	50.2'	40°19.6'	79.1'	44°22.0'	136.5'	22°55.3'	176.9'	17°48.6'	192.4'	28°56.0'	280.3'	24°10.4'	337.3'
215	23°36.0'	50.1'	41°18.1'	79.2'	45°15.1'	137.3'	22°59.6'	177.5'	17°36.5'	192.9'	27°57.3'	280.3'	23°47.3'	337.0'
216	24°21.7'	49.9'	42°16.6'	79.3'	46°08.2'	138.1'	23°03.0'	178.1'	17°24.4'	193.3'	26°58.6'	280.3'	23°23.9'	336.7'
217	25°07.3'	49.7'	43°15.1'	79.4'	47°01.3'	138.9'	23°06.1'	178.3'	17°12.3'	193.7'	25°59.9'	280.3'	23°00.1'	336.4'
218	25°52.7'	49.5'	44°13.5'	79.5'	47°54.4'	139.7'	23°09.2'	178.5'	16°59.8'	194.1'	25°01.2'	280.3'	22°36.2'	336.2'
219	26°38.0'	49.3'	45°11.9'	79.6'	48°47.5'	140.5'	23°12.3'	178.7'	16°47.7'	194.5'	24°02.2'	280.3'	22°11.1'	335.9'
220	27°23.2'	49.1'	46°10.3'	79.7'	49°40.6'	141.9'	23°15.4'	178.9'	16°35.6'	194.9'	23°03.8'	280.3'	21°47.4'	335.6'
221	28°08.5'	48.9'	47°08.7'	79.8'	40°33.7'	142.3'	23°18.5'	179.1'	16°23.5'	195.3'	22°04.8'	280.3'	21°22.7'	335.3'
222	28°53.0'	48.8'	48°07.1'	79.9'	49°05.9'	143.7'	23°21.6'	179.3'	16°11.4'	195.7'	21°06.4'	280.3'	20°57.7'	335.1'
223	29°37.3'	48.6'	49°05.4'	80.0'	49°59.0'	144.1'	23°24.7'	179.5'	15°59.3'	196.1'	20°07.7'	280.3'	20°32.5'	334.8'
224	30°21.1'	48.5'	50°03.7'	80.1'	50°52.1'	144.5'	23°27.8'	179.7'	15°47.2'	196.5'	19°09.9'	280.3'	20°07.1'	334.4'
225	31°06.4'	47.7'	51°03.6'	80.2'	51°45.2'	144.9'	23°30.9'	179.9'	15°35.1'	196.9'	18°02.8'	280.3'	19°41.6'	334.1'
226	31°50.5'	47.4'	52°02.8'	80.3'	52°38.3'	145.3'	23°34.0'	180.1'	15°23.0'	197.3'	16°55.7'	280.3'	19°15.5'	333.8'
227	32°34.3'	47.1'	53°02.1'	80.4'	53°31.4'	145.7'	23°37.1'	180.3'	15°10.9'	197.7'	15°48.6'	280.3'	18°49.4'	333.5'
228	33°18.2'	46.8'	54°01.4'	80.5'	54°24.5'	146.1'	23°40.2'	180.5'	14°58.8'	198.1'	14°41.5'	280.3'	18°23.3'	333.2'
229	34°02.1'	46.5'	55°00.7'	80.6'	55°17.6'	146.5'	23°43.3'	180.7'	14°46.7'	198.5'	13°34.4'	280.3'	17°57.2'	332.9'
230	34°44.4'	46.1'	56°00.0'	80.7'	56°10.7'	146.9'	23°46.4'	180.9'	14°34.6'	198.9'	12°26.5'	280.3'	17°31.1'	332.6'
231	35°27.2'	45.7'	57°00.0'	80.8'	57°03.8'	147.3'	23°49.5'	181.1'	14°22.5'	199.3'	11°18.6'	280.3'	17°05.0'	332.3'
232	36°09.9'	45.3'	58°00.0'	80.9'	58°00.0'	147.7'	23°52.6'	181.3'	14°10.5'	199.7'	10°10.7'	280.3'	16°38.9'	332.0'
233	36°52.0'	44.9'	59°00.0'	81.0'	59°00.0'	148.1'	23°55.7'	181.5'	13°58.6'	200.1'	9°02.8'	280.3'	16°12.8'	331.7'
234	37°33.9'	44.4'	60°00.0'	81.1'	60°00.0'	148.5'	23°58.8'	181.7'	13°46.5'	200.5'	7°54.9'	280.3'	15°46.7'	331.4'
235	38°15.5'	44.0'	61°00.0'	81.2'	61°00.0'	148.9'	24°01.9'	181.9'	13°34.4'	200.9'	6°47.0'	280.3'	15°20.6'	331.1'
236	38°58.8'	43.5'	62°00.0'	81.3'	62°00.0'	149.3'	24°05.0'	182.1'	13°22.3'	201.3'	5°39.1'	280.3'	14°54.5'	330.8'
237	39°41.7'	43.0'	63°00.0'	81.4'	63°00.0'	149.7'	24°08.1'	182.3'	13°10.2'	201.7'	4°31.2'	280.3'	14°28.4'	330.5'
238	40°24.2'	42.5'	64°00.0'	81.5'	64°00.0'	150.1'	24°11.2'	182.5'	12°58.1'	202.1'	3°23.3'	280.3'	14°02.3'	330.2'
239	41°06.8'	42.0'	65°00.0'	81.6'	65°00.0'	150.5'	24°14.3'	182.7'	12°46.0'	202.5'	2°15.4'	280.3'	13°76.2'	329.9'
240	41°38.0'	41.4'	66°00.0'	81.7'	66°00.0'	150.9'	24°17.4'	182.9'	12°33.9'	202.9'	1°07.5'	280.3'	13°50.1'	329.6'
241	42°19.3'	40.9'	67°00.0'	81.8'	67°00.0'	151.3'	24°20.5'	183.1'	12°21.8'	203.3'	0°00.0'	280.3'	13°24.0'	329.3'
242	42°56.1'	40.3'	68°00.0'	81.9'	68°00.0'	151.7'	24°23.6'	183.3'	12°09.7'	203.7'	-0°07.9'	280.3'	12°57.9'	329.0'
243	43°34.5'	39.7'	69°00.0'	82.0'	69°00.0'	152.1'	24°26.7'	183.5'	11°57.6'	204.1'	-1°00.0'	280.3'	12°31.8'	328.7'
244	44°12.9'	39.1'	70°00.0'	82.1'	70°00.0'	152.5'	24°29.8'	183.7'	11°45.5'	204.5'	-1°52.1'	280.3'	12°05.7'	328.4'
245	44°49.6'	38.4'	71°00.0'	82.2'	71°00.0'	152.9'	24°32.9'	183.9'	11°33.4'	204.9'	-2°44.2'	280.3'	11°79.6'	328.1'
246	45°26.4'	37.7'	72°00.0'	82.3'	72°00.0'	153.3'	24°36.0'	184.1'	11°21.3'	205.3'	-3°36.3'	280.3'	11°53.5'	327.8'
247	46°02.6'	37.0'	73°00.0'	82.4'	73°00.0'	153.7'	24°39.1'	184.3'	11°09.2'	205.7'	-4°28.4'	280.3'	11°27.4'	327.5'
248	46°38.2'	36.3'	74°00.0'	82.5'	74°00.0'	154.1'	24°42.2'	184.5'	10°97.1'	206.1'	-5°20.5'	280.3'	11°01.3'	327.2'
249	47°13.2'	35.5'	75°00.0'	82.6'	75°00.0'	154.5'	24°45.3'	184.7'	10°85.0'	206.5'	-6°12.6'	280.3'	10°75.2'	326.9'
250	47°47.5'	34.7'	76°00.0'	82.7'	76°00.0'	154.9'	24°48.4'	184.9'	10°72.9'	206.9'	-7°04.7'	280.3'	10°49.1'	326.6'
251	48°21.1'	33.9'	77°00.0'	82.8'	77°00.0'	155.3'	24°51.5'	185.1'	10°60.8'	207.3'	-7°56.8'	280.3'	10°23.0'	326.3'
252	48°54.8'	33.1'	78°00.0'	82.9'	78°00.0'	155.7'								

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn				
0	63°42.2'	04.6	26°09.1'	34.1	20°43.1'	73.4	26°39.7'	165.4	54°19.8'	203.2	28°03.4'	278.5	29°33.3'	322.1	90	54°22.7'	42.8	27°39.3'	78.2	27°08.4'	143.3	34°03.3'	175.5	30°12.1'	218.9	65°31.8'	305.0	46°01.4'	349.5
1	63°46.0'	02.7	26°42.5'	33.7	21°40.6'	73.4	26°54.5'	165.9	53°55.6'	204.5	27°04.1'	278.5	28°56.4'	321.7	91	55°03.1'	41.8	28°37.9'	78.1	27°44.1'	143.8	34°07.6'	176.3	29°34.3'	219.4	64°42.4'	303.8	45°50.0'	348.6
2	63°47.8'	00.7	27°15.7'	33.4	22°38.0'	73.2	27°08.9'	166.4	53°30.1'	205.8	26°04.8'	278.5	28°19.1'	321.4	92	55°42.6'	40.8	28°36.6'	78.0	28°19.3'	144.2	34°11.1'	177.0	28°56.1'	219.8	63°52.3'	302.7	45°37.7'	347.6
3	63°47.8'	00.7	27°15.7'	33.4	22°38.0'	73.2	27°08.9'	166.4	53°30.1'	205.8	26°04.8'	278.5	28°19.1'	321.4	93	56°21.4'	39.7	30°35.2'	78.0	28°54.1'	144.7	34°13.9'	177.0	28°56.1'	219.8	63°01.6'	301.7	45°24.4'	346.7
4	63°45.1'	356.8	28°20.0'	32.6	24°32.0'	73.2	27°35.8'	167.6	52°35.6'	208.3	24°06.3'	278.4	27°03.7'	320.6	94	56°59.2'	38.6	31°33.8'	77.9	29°02.5'	145.2	34°15.9'	178.5	27°38.6'	220.8	62°10.4'	300.8	45°10.1'	345.8
5	63°40.7'	354.8	28°53.0'	32.2	25°30.7'	73.2	27°45.5'	168.1	52°06.7'	209.5	23°07.0'	278.4	26°25.6'	320.3	95	57°36.1'	37.4	32°32.3'	77.8	29°28.4'	145.8	34°17.1'	179.2	26°59.3'	221.6	61°18.7'	299.9	44°54.9'	344.8
6	63°34.3'	352.8	29°24.8'	31.8	26°27.4'	73.0	28°00.5'	168.7	51°36.7'	210.6	22°07.8'	278.4	25°47.2'	320.0	96	58°12.0'	36.2	33°30.9'	77.7	30°35.9'	146.3	34°17.1'	179.2	26°19.6'	221.6	60°26.5'	299.1	44°38.8'	343.9
7	63°25.8'	350.9	29°56.1'	31.3	27°24.6'	72.9	28°12.0'	169.3	51°05.6'	211.7	21°08.5'	278.4	25°08.6'	319.7	97	58°46.6'	34.9	34°34.29'	77.7	31°08.9'	146.9	34°17.2'	180.7	25°39.9'	222.0	59°33.0'	298.3	44°21.8'	343.1
8	63°15.3'	349.0	30°27.1'	30.9	28°21.9'	72.8	28°28.1'	169.8	50°37.6'	212.8	20°09.2'	278.4	24°29.6'	319.4	98	59°20.6'	33.6	35°28.0'	77.6	31°41.4'	147.4	34°16.2'	181.4	24°59.4'	222.0	58°53.9'	297.3	44°03.9'	342.2
9	63°02.9'	347.1	30°57.6'	30.4	29°19.1'	72.7	28°33.1'	170.4	50°00.7'	213.9	19°09.9'	278.4	23°50.5'	319.1	99	59°53.2'	32.2	36°26.5'	77.4	32°13.4'	148.0	34°14.3'	182.1	24°18.8'	222.8	57°47.7'	296.9	43°45.1'	341.3
10	62°48.6'	345.3	31°27.8'	30.0	30°16.3'	72.6	28°42.8'	171.0	49°26.8'	214.9	18°10.7'	278.4	23°11.2'	318.8	100	60°24.5'	30.8	37°24.9'	77.3	32°44.9'	148.6	34°11.7'	182.9	23°37.9'	223.2	56°54.1'	296.2	43°25.5'	340.5
11	62°32.5'	343.5	31°57.8'	29.5	31°13.4'	72.4	28°51.6'	171.6	48°52.1'	215.9	17°11.4'	278.4	22°31.6'	318.5	101	60°54.6'	29.3	38°23.4'	77.2	33°15.8'	149.2	34°08.4'	183.6	22°56.7'	223.6	56°03.0'	296.3	43°06.1'	340.6
12	62°14.6'	341.7	32°26.7'	29.0	32°10.5'	72.3	28°59.2'	172.2	48°16.6'	216.9	16°12.1'	278.4	21°51.8'	318.3	102	61°23.1'	27.8	39°21.8'	77.1	33°46.1'	149.8	34°04.2'	184.0	22°15.3'	223.6	55°06.1'	295.4	42°43.8'	338.8
13	61°54.9'	340.0	32°55.5'	28.5	33°07.6'	72.2	29°08.0'	172.8	47°40.2'	217.8	15°12.8'	278.4	21°11.9'	318.1	103	61°50.3'	26.2	40°20.8'	77.0	34°16.1'	150.3	33°59.3'	185.0	21°33.6'	223.6	54°11.7'	295.0	42°21.8'	338.0
14	61°33.6'	338.3	33°23.9'	28.0	34°04.6'	72.0	29°15.2'	173.4	47°03.1'	218.7	14°13.6'	278.4	20°31.7'	317.8	104	62°16.0'	24.5	41°18.5'	76.8	34°45.3'	151.1	33°53.7'	185.8	20°51.7'	224.6	53°17.0'	294.0	41°59.0'	337.2
15	19°37.1'	41.7	35°01.6'	71.8	25°19.7'	100.5	29°21.8'	174.0	46°25.3'	219.6	41°09.3'	280.6	61°10.6'	336.7	105	62°40.0'	22.8	42°16.9'	76.7	35°14.0'	151.8	33°47.3'	186.5	61°38.8'	246.6	52°22.2'	293.5	41°36.5'	336.5
16	20°16.9'	41.5	35°58.5'	71.7	26°18.6'	100.7	29°27.7'	174.6	45°46.8'	220.4	40°10.4'	280.6	60°46.1'	335.1	106	63°02.4'	21.1	43°15.1'	76.5	35°42.0'	152.5	33°40.2'	187.2	60°43.7'	247.4	51°27.2'	293.1	41°11.2'	335.7
17	20°56.5'	41.3	36°55.3'	71.5	27°17.1'	100.8	29°33.0'	175.3	45°07.6'	221.2	39°11.5'	280.4	60°20.1'	333.5	107	63°23.1'	19.3	44°13.4'	76.3	36°09.4'	153.2	33°32.3'	187.9	59°48.2'	248.1	50°32.0'	292.6	40°46.2'	335.0
18	21°36.0'	41.0	37°52.1'	71.3	28°16.3'	101.0	29°37.6'	175.9	44°27.8'	222.0	38°12.6'	280.3	59°52.7'	332.0	108	63°42.0'	17.4	45°11.6'	76.1	36°36.1'	153.9	33°23.7'	188.6	58°52.5'	248.8	49°36.6'	292.4	40°20.5'	334.3
19	22°15.2'	40.8	38°48.8'	71.1	29°15.1'	101.1	29°41.6'	176.5	43°47.4'	222.8	37°13.6'	280.2	59°23.9'	330.6	109	63°58.9'	15.4	46°09.3'	75.9	37°02.1'	154.6	33°14.4'	189.3	57°57.6'	249.6	48°46.0'	291.9	39°59.4'	333.6
20	22°54.2'	40.5	39°45.5'	70.9	30°13.9'	101.3	29°44.9'	177.1	43°06.4'	223.6	36°14.6'	280.2	58°53.8'	329.2	110	64°14.1'	13.4	47°07.8'	75.7	37°27.5'	155.3	33°04.3'	190.7	56°57.0'	250.4	47°45.4'	291.5	39°27.2'	332.9
21	23°33.1'	40.3	40°42.1'	70.7	31°12.6'	101.4	29°47.6'	177.7	42°24.8'	224.3	35°15.7'	280.1	58°22.5'	327.8	111	64°27.1'	11.6	48°05.9'	75.5	37°52.2'	156.1	32°53.6'	191.0	56°04.3'	250.6	46°49.5'	291.2	38°59.6'	332.2
22	24°11.7'	40.0	41°38.6'	70.4	32°11.4'	101.6	29°49.6'	178.4	41°42.7'	225.0	34°16.7'	280.0	57°50.1'	326.5	112	64°38.1'	9.9	49°03.9'	75.3	38°16.1'	156.9	32°42.1'	191.4	55°07.4'	251.1	45°53.6'	290.8	38°31.3'	331.6
23	24°50.0'	39.7	42°35.0'	70.2	33°10.0'	101.8	29°51.0'	179.0	41°00.1'	225.6	33°17.6'	280.0	57°16.5'	325.3	113	64°47.4'	8.7	50°05.0'	75.0	38°39.3'	157.6	32°29.9'	192.1	54°10.6'	251.6	44°44.7'	290.5	38°02.5'	330.9
24	25°28.2'	39.4	43°31.3'	69.9	34°08.7'	102.0	29°51.7'	179.6	40°17.1'	226.3	32°18.6'	280.9	56°41.1'	324.1	114	64°53.8'	7.6	50°59.6'	74.8	39°01.7'	158.4	32°17.1'	192.7	53°10.7'	252.1	44°00.7'	290.3	37°33.1'	330.3
25	26°06.0'	39.0	44°27.5'	69.6	35°07.2'	102.2	29°51.8'	180.2	39°33.5'	226.9	31°19.6'	279.8	56°06.2'	322.9	115	64°58.5'	6.3	51°57.4'	74.5	39°23.3'	159.3	32°03.5'	193.4	52°16.6'	252.5	43°05.1'	290.0	37°03.1'	329.7
26	26°43.7'	38.7	45°23.6'	69.3	36°05.8'	102.4	29°51.2'	180.9	38°49.6'	227.5	30°20.6'	279.8	55°29.7'	321.8	116	65°01.3'	5.1	52°55.1'	74.2	39°44.1'	160.1	31°49.3'	194.0	51°19.4'	252.9	42°08.8'	289.7	36°32.6'	329.1
27	27°21.0'	38.4	46°19.6'	69.0	37°04.3'	102.6	29°50.0'	181.5	38°05.2'	228.1	29°21.5'	279.8	54°52.2'	320.8	117	65°01.3'	3.9	53°52.5'	73.7	40°04.1'	160.9	31°34.3'	194.7	50°19.0'	253.3	41°12.3'	289.5	36°01.5'	328.5
28	27°58.0'	38.0	47°15.5'	68.7	38°02.7'	102.8	29°48.4'	182.1	37°20.4'	228.7	28°22.5'	279.7	54°13.9'	319.7	118	64°59.4'	3.5	54°50.6'	73.5	40°23.3'	161.8	31°18.9'	195.3	49°24.6'	253.7	40°15.8'	289.2	35°30.0'	328.0
29	28°34.8'	37.6	48°11.3'	68.3	39°01.1'	103.1	29°45.6'	182.7	36°35.2'	229.2	27°23.4'	279.7	53°34.8'	318.8	119	64°55.3'	3.5	55°47.6'	73.2	40°41.6'	162.6	31°02.8'	196.0	48°27.2'	254.1	39°19.2'	289.0	34°58.0'	327.4
30	39°40.3'	17.8	29°11.2'	37.2	49°06.9'	68.0	39°59.5'	103.3	29°42.4'	183.4	35°49.6'	229.7	52°54.9'	317.8	120	21°58.2'	21.7	32°09.8'	74.8	40°59.0'	163.5	30°46.0'	196.6	63°06.5'	222.2	58°53.3'	279.4	34°25.5'	326.9
31	39°58.3'	17.1	29°47.3'	36.8	50°02.3'	67.6	40°57.8'	103.5	29°38.5'	184.0	35°03.8'	230.2	52°14.1'	316.9	121	22°20.2'	21.4	33°07.6'	74.7	41°15.6'	164.4	30°28.5'	197.2	62°25.6'	223.7	57°54.5'	279.2	33°52.5'	326.4
32	40°15.5'	16.3	30°23.0'	36.4	50°57.6'	67.2	41°56.0'	103.8	29°34.1'	184.6	34°17.5'	230.7	51°33.0'	316.0	122	22°41.9'	21.0	34°05.4'	74.5	41°31.3'	165.3	30°10.5'	197.6	61°56.5'	224.1	56°55.0'	279.0	33°33.1'	326.0
33	40°31.9'	15.5	30°58.5'	36.0	51°52.8'	66.7	42°54.1'	104.1	29°28.9'	185.2	33°31.0'	231.2	50°51.1'	315.2	123	23°03.3'	20.7	35°03.0'	74.4	41°46.0'	166.2	29°51.9'	198.4	61°00.9'	226.4	55°55.5'	278.8	32°45.3'	325.4
34	40°47.6'	14.8	31°33.5'	35.6	52°47.7'	66.3	43°52.2'	104.4	29°23.2'	185.8	32°44.1'	231.7	50°08.6'	314.6	124	23°24.3'	20.4	36°00.8'	74.3	41°59.8'	167.1	29°32.6'	199.6	60°17.0'	227.6	54°56.6'	278.6	32°11.1'	324.9
35	41°02.5'	14.0	32°08.2'	35.1	53°42.5'	65.8	44°50.2'	104.7	29°16.8'	186.4	31°57.0'	232.1	49°25.5'	313.4	125	23°45.0'	20.0	36°58.4'	74.2	42°12.7'	168.1	29°12.8'	199.6	59°32.3'	228.8	53°57.3'	278.5	31°36.4'	324.5
36	41°16.5'	13.2	32°42.4'	34.6	54°37.0'	65.4	45°46.2'	105.0	29°09.7'	187.0	31°09.5'	232.5	48°41.8'	312.9	126	24°05.3'	19.6	37°56.1'	74.0	42°24.6'	169.0	28°52.4'	200.2	58°46.8'	230.1	52°58.1'	278.3	31°01.4'	324.0
37	41°29.8'	12.4	33°16.																										

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	
0	60°42.7'	04.223°39.4'	33.3	19°50.2'	72.4	29°33.6'	15.1	57°04.2'	335.0	27°34.3'	280.1	27°10.3'	323.1
1	60°46.2'	02.424°12.2'	33.0	20°47.4'	72.3	29°49.0'	14.5	56°38.1'	333.6	26°35.2'	280.0	26°34.1'	322.7
2	60°47.8'	00.624°44.7'	32.6	21°44.5'	71.3	30°03.7'	14.0	56°10.8'	332.3	25°36.1'	279.9	25°57.6'	322.3
3	60°47.4'	358.825°16.8'	32.2	22°41.6'	72.0	30°17.9'	13.5	55°42.3'	331.0	24°37.0'	279.8	25°20.2'	321.9
4	60°45.4'	357.125°48.6'	31.8	23°38.6'	71.9	30°31.5'	12.8	55°12.6'	329.7	23°37.7'	279.7	24°43.6'	321.6
5	60°41.4'	355.326°20.0'	31.4	24°35.6'	71.7	30°44.5'	12.2	54°41.8'	328.5	22°38.7'	279.7	24°06.1'	321.2
6	60°35.5'	353.526°51.0'	30.9	25°32.6'	71.6	30°56.9'	11.7	54°09.9'	327.3	21°39.6'	279.6	23°28.4'	320.9
7	60°27.3'	351.027°21.7'	30.5	26°29.9'	71.4	31°08.7'	11.5	53°37.0'	326.0	20°40.4'	279.5	22°50.4'	320.5
8	60°18.3'	350.027°51.9'	30.0	27°26.6'	71.3	31°19.9'	11.0	53°03.1'	325.0	19°41.2'	279.5	22°12.1'	320.2
9	60°07.1'	348.328°21.8'	29.6	28°23.2'	71.1	31°30.5'	10.9	52°28.2'	324.0	18°42.0'	279.4	21°33.6'	319.9
10	59°54.0'	346.628°51.2'	29.1	29°19.9'	70.9	31°40.5'	10.9	51°52.5'	322.9	17°42.8'	279.4	20°54.9'	319.6
11	59°39.3'	344.929°20.7'	28.6	30°16.6'	70.7	31°49.8'	10.8	51°15.9'	321.9	16°43.6'	279.3	20°15.9'	319.3
12	59°22.9'	343.329°48.6'	28.1	31°13.2'	70.5	31°58.5'	10.7	50°38.5'	321.0	15°44.4'	279.3	19°36.6'	319.0
13	59°04.8'	341.730°16.7'	27.6	32°09.7'	70.3	32°06.6'	10.6	49°50.0'	320.0	14°45.2'	279.2	18°57.2'	318.8
14	58°45.2'	340.130°44.2'	27.1	33°06.2'	70.1	32°14.0'	10.6	49°21.5'	319.1	13°46.0'	279.2	18°17.6'	318.5

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	
90	52°07.8'	40.227°00.0'	76.7	29°31.8'	37.7	37°02.8'	04.6	63°32.1'	31.1	320.0	63°42.1'	310.0	
91	52°46.1'	39.227°58.4'	76.5	30°08.3'	37.2	37°07.2'	03.9	63°15.2'	319.5	62°55.8'	308.7	62°53.4'	349.1
92	53°23.6'	38.128°56.7'	76.4	30°44.4'	36.8	37°10.9'	03.1	63°13.1'	319.0	62°08.6'	307.6	62°42.1'	348.2
93	54°00.2'	37.029°55.0'	76.3	31°20.2'	36.3	37°13.7'	02.4	63°03.3'	318.6	61°02.7'	306.4	62°29.0'	347.3
94	54°35.9'	35.930°53.3'	76.1	31°55.4'	35.8	37°15.8'	01.6	62°59.5'	318.2	60°02.1'	305.4	62°10.9'	346.5
95	55°10.6'	34.831°51.6'	76.0	32°30.3'	35.3	37°17.1'	00.8	62°59.1'	317.6	59°42.8'	304.4	62°00.9'	345.6
96	55°44.3'	33.632°49.7'	75.8	33°04.7'	34.7	37°17.5'	00.1	62°58.3'	317.3	58°53.0'	303.4	61°45.5'	344.7
97	56°16.4'	32.333°47.9'	75.7	33°38.7'	34.2	37°17.2'	00.0	62°57.2'	316.9	58°02.7'	302.6	61°29.2'	343.9
98	56°48.4'	31.034°46.9'	75.5	34°12.2'	33.6	37°16.1'	00.0	62°56.7'	316.5	57°11.9'	301.7	61°12.1'	343.0
99	57°17.8'	29.735°44.1'	75.3	34°45.2'	33.1	37°14.1'	00.0	62°56.2'	316.2	56°20.7'	300.9	60°54.2'	342.2
100	57°48.9'	28.336°42.1'	75.1	35°17.7'	32.5	37°11.5'	00.0	62°55.7'	316.0	55°29.8'	300.2	60°35.4'	341.4
101	58°15.7'	26.937°40.1'	74.9	35°50.4'	31.9	37°08.0'	00.0	62°55.2'	315.8	54°36.9'	299.5	60°15.8'	340.6
102	58°42.1'	25.438°38.0'	74.7	36°21.0'	31.3	37°03.7'	00.0	62°54.7'	315.6	53°44.5'	298.8	59°55.5'	339.8
103	59°07.2'	23.939°35.8'	74.5	36°51.9'	30.6	36°58.6'	00.0	62°54.2'	315.4	52°51.8'	298.1	59°34.3'	339.0
104	59°30.8'	22.440°33.6'	74.3	37°22.1'	30.0	36°52.8'	00.0	62°53.7'	315.2	51°58.7'	297.5	59°12.4'	338.2

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	
15	17°22.1'	41.134°02.6'	69.9	25°50.4'	80.9	32°20.8'	06.2	48°41.9'	318.3	40°32.2'	283.2	58°24.1'	338.6
16	18°01.4'	40.834°58.9'	69.7	26°49.6'	80.8	32°26.9'	05.5	48°01.7'	317.4	39°33.8'	283.0	58°01.5'	337.9
17	18°40.5'	40.635°55.1'	69.4	27°48.8'	80.7	32°32.3'	04.9	47°20.8'	316.6	38°35.3'	282.8	57°37.5'	335.7
18	19°19.4'	40.336°51.2'	69.1	28°48.0'	80.6	32°37.1'	04.3	46°39.3'	315.9	37°36.7'	282.6	57°12.1'	334.2
19	19°58.1'	40.037°47.3'	68.9	29°47.2'	80.6	32°41.2'	03.6	45°57.2'	315.1	36°38.2'	282.5	56°45.3'	332.9
20	20°36.6'	39.838°43.1'	68.6	30°46.4'	80.5	32°44.7'	03.0	45°14.6'	314.4	35°39.9'	282.3	56°17.3'	331.5
21	21°14.9'	39.539°38.9'	68.3	31°45.5'	80.4	32°47.5'	02.4	44°31.5'	313.7	34°40.6'	282.2	55°48.1'	330.2
22	21°52.9'	39.240°34.6'	68.0	32°44.7'	80.3	32°49.6'	01.7	43°47.9'	313.0	33°42.2'	282.0	55°17.8'	329.0
23	22°30.3'	38.841°30.2'	67.7	33°43.8'	80.1	32°51.0'	01.0	43°03.8'	312.4	32°43.3'	281.9	54°46.3'	327.8
24	23°08.1'	38.542°25.6'	67.3	34°42.9'	80.0	32°51.7'	00.4	42°19.3'	311.8	31°44.8'	281.8	54°13.8'	326.6
25	23°45.4'	38.243°20.9'	66.9	35°42.0'	79.9	32°51.8'	00.0	41°34.3'	311.2	30°46.1'	281.6	53°40.2'	325.4
26	24°22.2'	37.844°16.0'	66.6	36°41.1'	79.8	32°51.2'	00.0	40°49.0'	310.6	29°47.3'	281.5	53°05.7'	324.3
27	24°58.9'	37.545°11.0'	66.2	37°40.1'	79.7	32°50.9'	00.0	39°63.9'	310.0	28°48.5'	281.4	52°30.3'	323.3
28	25°35.3'	37.246°05.8'	65.7	38°38.9'	79.5	32°50.6'	00.0	38°78.9'	309.4	27°49.6'	281.3	51°54.0'	322.2
29	26°11.3'	36.747°00.4'	65.3	39°38.1'	79.4	32°50.4'	00.0	37°93.0'	308.8	26°50.8'	281.2	51°16.8'	321.3

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	
105	59°52.9'	20.841°31.3'	74.1	37°51.8'	29.3	36°46.1'	353.3	62°42.6'	288.1	51°05.4'	297.0	38°49.8'	337.5
106	60°13.4'	19.242°29.0'	73.8	38°20.8'	28.6	36°38.7'	352.5	61°45.5'	287.5	50°11.8'	296.4	38°26.4'	336.7
107	60°32.3'	17.543°26.6'	73.5	38°49.2'	27.9	36°30.6'	351.8	60°48.2'	287.0	49°17.9'	295.9	38°02.4'	336.0
108	60°49.4'	15.844°24.1'	73.3	39°17.0'	27.2	36°21.6'	351.1	59°50.7'	286.5	48°23.8'	295.4	37°37.7'	335.3
109	61°04.9'	14.045°21.1'	73.0	39°44.0'	26.4	36°11.9'	350.3	58°52.6'	286.0	47°29.5'	294.9	37°12.3'	334.6
110	61°18.5'	12.346°18.1'	72.7	40°10.4'	25.7	36°01.5'	349.6	57°57.5'	285.5	46°35.4'	294.3	36°46.6'	333.9
111	61°32.0'	10.547°16.1'	72.4	40°36.1'	24.9	35°50.3'	348.9	56°55.5'	285.1	45°40.3'	294.1	36°19.5'	333.3
112	61°40.4'	08.748°13.2'	72.0	41°01.0'	24.1	35°38.4'	348.2	55°59.5'	284.7	44°45.4'	293.6	35°52.2'	332.6
113	61°48.4'	06.849°10.7'	71.7	41°25.1'	23.3	35°25.8'	347.5	55°01.5'	284.4	43°50.4'	293.3	35°24.4'	332.0
114	61°54.6'	04.950°07.2'	71.3	41°48.5'	22.5	35°12.5'	346.8	54°03.5'	284.0	42°55.2'	292.9	34°55.9'	331.4
115	61°58.8'	03.151°03.8'	70.9	42°11.1'	21.7	34°58.5'	346.1	53°05.0'	283.7	41°59.8'	292.5	34°26.8'	330.8
116	62°01.1'	01.252°00.5'	70.5	42°32.9'	20.8	34°43.8'	345.5	52°06.7'	283.4	41°04.4'	292.2	33°57.2'	330.2
117	62°01.3'	359.352°56.9'	70.0	42°53.8'	20.0	34°28.4'	344.8	51°08.3'	283.1	40°08.7'	291.9	33°27.2'	329.6
118	61°59.6'	357.453°53.3'	69.6	43°13.8'	19.1	34°12.1'	344.1	50°09.8'	282.8	39°13.0'	291.6	32°56.5'	329.0
119	61°55.9'	355.654°49.4'	69.1	43°33.0'	18.2	33°55.6'	343.5	49°11.3'	282.6	38°17.1'	291.3	32°25.2'	328.5

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	
30	36°48.6'	17.126°47.0'	36.3	47°54.8'	64.9	40°37.1'	79.2	32°42.1'	356.5	37°43.9'	308.5	50°38.9'	320.3
31	37°05.9'	16.427°22.3'	35.9	48°49.0'	64.4	41°36.0'	79.0	32°38.1'	355.9	36°56.8'	308.1	50°00.0'	319.4
32	37°22.4'	15.627°57.3'	35.4	49°43.0'	63.9	42°34.9'	78.9	32°33.5'	355.3	36°09.4'	307.9	49°20.8'	318.9
33	37°38.2'	14.928°31.9'	35.0	50°36.7'	63.3	43°33.7'	78.7	32°28.2'	354.6	35°21.8'	307.2	48°40.7'	317.6
34	37°53.3'	14.129°06.0'	34.6	51°30.2'	62.8	44°32.5'	78.5	32°22.2'	354.0	34°33.8'	306.7	47°59.9'	316.8
35	38°07.6'	13.429°40.1'	34.1	52°23.4'	62.4	45°31.3'	78.3	32°15.6'	353.4	33°45.6'	306.3	47°18.6'	316.0
36	38°21.2'	12.630°13.4'	33.6	53°16.3'	61.9	46°30.0'	78.2	32°08.3'	352.7	32°57.2'	306.0	46°36.3'	315.5
37	38°33.8'	11.830°46.4'	33.1	54°08.9'	61.4	47°28.7'	78.1	32°00.4'	352.1	32°08.5'	305.6	45°54.1'	314.8
38	38°45.7'	11.131°19.0'	32.6	55°01.2'	60.2	48°27.3'	77.6	31°51.9'	351.5	31°19.6'	305.2	45°11.0'	313.8
39	38°56.8'	10.331°51.1'	32.1	55°53.1'	59.5	49°25.9'	77.3	31°42.7'	350.9	30°30.4'	304.9	44°27.5'	313.1
40	39°07.1'	09.532°22.8'	31.6	56°44.9'	58.9	50°24.4'	77.1	31°32.8'	350.3	29°41.1'	304.5	43°43.3'	312.5
41	39°16.6'	08.732°53.9'	31.0	57°35.6'	57.9	51°22.9'	76.8	31°22.4'	349.7	28°51.6'	304.2	42°59.0'	311.8
42	39°25.2'	07.933°24.6'	30.5	58°26.2'	57.0								

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
	*ARCTURUS		*ANTARES		*RIGIL KENT		*ACRUX		*Suhail		*REGULUS		*Duhbe	
180	51°27.3'	58.4	19°53.5'	61.7	21°46.7'	19.8	26°34.7'	03.5	32°08.3'	324.4	60°06.3'	294.4	27°28.4'	352.7
181	52°18.2'	57.7	20°46.3'	61.5	22°06.8'	19.4	26°38.1'	03.0	31°33.1'	323.9	59°11.5'	293.7	27°20.5'	352.2
182	53°08.7'	57.0	21°39.0'	61.3	22°26.5'	19.9	26°41.0'	02.6	30°57.6'	323.4	58°16.4'	293.0	27°12.0'	351.7
183	53°58.8'	56.2	22°31.6'	61.1	22°46.8'	18.6	26°43.0'	02.3	30°21.6'	322.9	57°21.0'	292.4	27°03.1'	351.2
184	54°48.4'	55.4	23°24.1'	60.9	23°04.8'	18.2	26°45.1'	01.9	29°45.3'	322.5	56°25.5'	291.8	26°53.6'	350.6
185	55°37.6'	54.3	24°16.5'	60.7	23°24.3'	17.8	26°46.4'	01.0	29°08.5'	322.0	55°29.7'	291.3	26°43.6'	350.2
186	56°26.2'	53.7	25°08.8'	60.5	23°41.5'	17.4	26°47.0'	00.5	28°31.4'	321.6	54°33.7'	290.8	26°33.0'	349.7
187	57°14.3'	52.8	26°00.0'	60.3	23°59.2'	17.0	26°47.4'	00.6	27°16.0'	321.2	53°37.5'	290.3	26°22.0'	349.2
188	58°01.8'	51.9	26°53.0'	60.2	24°16.4'	16.5	26°48.1'	00.1	26°12.0'	320.8	52°41.7'	289.8	26°10.5'	348.7
189	58°48.7'	50.8	27°44.9'	59.8	24°33.3'	16.1	26°48.6'	00.2	25°26.3'	320.4	51°44.6'	289.4	25°58.5'	348.2
190	59°34.9'	49.8	28°36.6'	59.5	24°49.7'	15.7	26°44.9'	00.3	24°59.7'	320.0	50°47.9'	289.0	25°46.0'	347.7
191	60°20.3'	48.9	29°28.2'	59.2	25°05.1'	15.2	26°43.0'	00.3	24°26.2'	319.6	49°51.1'	288.6	25°33.0'	347.3
192	61°04.7'	47.8	30°19.7'	58.9	25°20.2'	14.7	26°40.6'	00.3	23°52.4'	319.2	48°54.2'	288.2	25°19.5'	346.8
193	61°48.7'	46.5	31°11.0'	58.5	25°35.2'	14.2	26°37.7'	00.3	23°28.7'	318.9	47°57.2'	287.9	25°05.6'	346.3
194	62°31.5'	44.9	32°02.1'	58.3	25°50.8'	13.8	26°34.2'	00.3	22°54.1'	318.6	46°56.0'	287.6	24°51.2'	345.9
	*Alphecca		*Rasalhague		*ANTARES		*RIGIL KENT		*ACRUX		*REGULUS		*Duhbe	
196	44°05.1'	51.4	20°30.5'	76.6	32°53.1'	57.9	26°04.9'	13.3	26°30.3'	355.9	46°02.7'	287.2	24°26.3'	345.4
199	44°51.8'	50.7	21°28.9'	76.5	33°43.8'	57.5	26°06.18.5'	12.9	26°25.8'	355.4	45°05.4'	286.9	24°21.0'	345.0
197	45°38.1'	50.1	22°27.2'	76.4	34°34.4'	57.2	26°08.31.6'	12.4	26°20.7'	355.0	44°07.9'	286.7	24°05.3'	344.6
198	46°23.9'	49.4	23°25.5'	76.3	35°24.7'	56.8	26°04.2'	11.9	26°15.2'	354.5	43°10.4'	286.4	23°49.1'	344.1
199	47°09.2'	48.7	24°23.8'	76.2	36°16.9'	56.4	26°05.6'	11.4	26°09.8'	354.0	42°12.8'	286.1	23°32.5'	343.7
200	47°54.1'	48.0	25°22.1'	76.1	37°04.7'	56.0	26°07.0'	10.9	26°02.6'	353.5	41°15.1'	285.9	23°15.4'	343.3
201	48°38.4'	47.3	26°20.3'	76.0	37°54.3'	55.7	26°07.9'	10.4	25°55.6'	353.0	40°17.4'	285.6	22°58.0'	342.9
202	49°22.2'	46.5	27°18.5'	75.8	38°43.7'	55.1	26°07.9'	09.9	25°48.0'	352.5	39°19.6'	285.4	22°40.1'	342.5
203	50°05.0'	45.6	28°16.7'	75.7	39°32.8'	54.7	26°07.9'	09.4	25°39.9'	352.0	38°21.7'	285.2	22°21.9'	342.1
204	50°48.0'	44.8	29°14.8'	75.6	40°21.8'	54.2	26°07.9'	08.9	25°31.4'	351.6	37°23.8'	285.0	22°03.3'	341.7
205	51°29.9'	43.9	30°12.9'	75.4	41°11.0'	53.7	26°07.9'	08.4	25°22.3'	351.1	36°25.8'	284.8	21°44.2'	341.3
206	52°11.7'	43.0	31°10.9'	75.3	41°58.3'	53.2	26°06.5'	07.8	25°12.8'	350.6	35°27.8'	284.6	21°24.8'	341.0
207	52°51.2'	42.3	32°08.9'	75.1	42°46.3'	52.8	26°06.1'	07.3	25°02.8'	350.2	34°29.7'	284.4	21°05.1'	340.6
208	53°31.5'	41.0	33°06.9'	75.0	43°33.6'	52.0	26°05.2'	06.7	24°52.3'	349.7	33°31.3'	284.3	20°45.0'	340.2
209	54°10.4'	40.0	34°04.8'	74.8	44°20.7'	51.4	26°04.3'	06.2	24°41.4'	349.3	32°33.4'	284.1	20°24.5'	339.9
	*VEGA		*Rasalhague		*ANTARES		*RIGIL KENT		*ACRUX		*REGULUS		*Duhbe	
210	15°54.7'	49.3	35°02.7'	74.6	45°07.4'	50.8	28°34.6'	05.7	24°30.0'	348.8	31°35.2'	284.0	20°03.7'	339.5
211	16°40.1'	49.1	36°00.5'	74.4	45°53.7'	50.5	28°40.2'	05.1	24°18.1'	348.4	30°37.9'	283.8	19°42.5'	339.2
212	17°25.4'	48.9	36°58.3'	74.2	46°39.6'	49.9	28°45.3'	04.6	24°06.2'	347.9	29°38.7'	283.7	19°21.0'	338.9
213	18°10.6'	48.7	37°56.0'	74.0	47°25.0'	48.8	28°49.7'	04.0	23°54.3'	347.5	28°40.4'	283.6	18°59.2'	338.5
214	18°55.6'	48.5	38°53.7'	73.8	48°09.4'	48.1	28°53.7'	03.5	23°42.9'	347.1	27°42.0'	283.4	18°37.1'	338.2
215	19°40.5'	48.3	39°51.2'	73.6	48°54.2'	47.3	28°57.0'	02.9	23°32.6'	346.6	26°43.7'	283.3	18°14.7'	337.9
216	20°25.2'	48.0	40°48.7'	73.3	49°38.3'	46.5	28°59.7'	02.4	23°22.5'	346.2	25°45.3'	283.2	17°52.0'	337.6
217	21°09.7'	47.8	41°46.2'	73.1	50°21.3'	45.7	29°01.9'	01.9	23°12.7'	345.8	24°46.8'	283.1	17°29.0'	337.3
218	21°54.1'	47.5	42°43.5'	72.8	51°03.9'	44.8	29°03.5'	01.4	23°02.4'	345.4	23°48.4'	283.0	17°05.7'	337.0
219	22°38.2'	47.2	43°40.8'	72.5	51°45.8'	43.9	29°05.0'	00.9	22°52.7'	345.0	22°49.9'	282.9	16°42.2'	336.7
220	23°22.2'	46.9	44°38.0'	72.2	52°27.1'	43.0	29°05.0'	00.4	22°42.1'	344.6	21°51.4'	282.8	16°18.4'	336.5
221	24°05.9'	46.6	45°35.1'	71.9	53°07.7'	42.0	29°04.8'	00.1	22°31.5'	344.2	20°52.9'	282.7	15°54.3'	336.2
222	24°49.9'	46.3	46°32.3'	71.7	53°48.3'	41.0	29°04.1'	00.1	22°20.9'	343.8	19°54.3'	282.6	15°29.9'	336.0
223	25°32.7'	46.0	47°28.9'	71.5	54°26.4'	40.0	29°02.8'	00.1	22°10.3'	343.4	18°55.8'	282.6	15°05.4'	335.7
224	26°15.8'	45.7	48°25.7'	70.9	55°04.4'	38.9	29°00.9'	00.1	21°59.7'	343.1	17°57.2'	282.5	14°40.6'	335.5
	*VEGA		*ALTAIR		*Nunki		*ANTARES		*RIGIL KENT		*SPICA		*ARCTURUS	
225	26°58.6'	45.3	31°50.0'	80.7	27°23.8'	60.1	55°41.6'	3.7	27°08.58.4'	357.4	64°08.0'	296.6	68°08.7'	331.4
226	27°41.1'	45.0	32°47.5'	80.6	28°15.8'	59.8	56°17.8'	3.6	26°58.55.4'	356.8	63°14.2'	295.7	67°39.1'	329.3
227	28°23.3'	44.6	33°44.9'	80.5	29°07.6'	59.6	56°56.3'	3.5	26°48.61.7'	356.3	62°19.9'	294.9	66°70.7'	327.3
228	29°05.3'	44.1	34°42.5'	80.4	29°59.2'	59.3	57°35.7'	3.4	26°38.67.5'	355.7	61°25.3'	294.1	66°02.2'	325.3
229	29°47.4'	43.8	35°40.7'	80.3	30°50.7'	59.0	58°15.0'	3.3	26°28.74.8'	355.2	60°30.4'	293.4	65°33.3'	323.5
230	30°28.3'	43.4	36°38.5'	80.2	31°42.0'	58.7	58°53.2'	3.2	26°18.82.4'	354.6	59°35.2'	292.7	65°05.8'	321.7
231	31°09.4'	43.0	37°36.3'	80.1	32°33.2'	58.3	59°32.6'	3.1	26°08.91.5'	354.1	58°39.7'	292.1	64°44.4'	320.0
232	31°50.0'	42.7	38°34.1'	80.0	33°24.2'	58.0	60°12.0'	3.0	25°59.00.9'	353.6	57°44.0'	291.5	64°05.8'	318.5
233	32°30.3'	42.4	39°31.9'	79.9	34°15.1'	57.6	60°51.8'	2.9	25°49.10.6'	353.1	56°48.0'	290.9	63°25.4'	317.0
234	33°10.3'	41.1	40°29.7'	79.8	35°06.0'	57.2	61°33.6'	2.8	25°39.20.4'	352.6	55°51.9'	290.4	62°43.9'	315.5
235	33°49.9'	40.8	41°27.5'	79.7	35°56.9'	56.9	62°15.2'	2.7	25°29.30.2'	352.1	54°55.6'	289.9	62°01.3'	314.2
236	34°29.1'	40.5	42°25.3'	79.6	36°47.8'	56.6	62°51.5'	2.6	25°19.40.0'	351.6	53°59.5'	289.4	61°17.9'	312.9
237	35°07.7'	40.0	43°23.1'	79.5	37°38.5'	56.3	63°33.3'	2.5	25°09.50.0'	351.1	52°63.3'	289.0	60°33.5'	311.7
238	35°46.2'	39.4	44°20.9'	79.3	38°29.2'	56.0	64°15.6'	2.4	24°59.60.0'	350.6	51°67.2'	288.6	59°49.3'	310.5
239	36°24.1'	38.9	45°18.7'	79.2	39°19.9'	55.7	64°59.8'	2.3	24°49.70.0'	350.1	50°72.1'	288.2	59°05.3'	309.3
	*VEGA		*ALTAIR		*Nunki		*ANTARES		*SPICA		*ARCTURUS		*Alkaid	
240	37°01.5'	38.3	31°37.7'	79.5	40°10.0'	54.7	65°42.31.6'	15.0	50°11.5'	287.8	58°15.6'	308.4	33°51.3'	334.9
241	37°38.5'	37.7	32°34.6'	79.4	41°02.8'	54.4	66°24.45.6'	13.4	49°11.3'	287.4	57°28.3'	307.7	32°49.5'	334.3
242	38°14.9'	37.1	33°31.5'	79.3	41°54.1'	54.1	67°06.58.2'	11.8	48°11.0'	287.1	56°40.4'	306.9	31°47.2'	333.7
243	38°50.0'	36.4	34°28.4'	79.1	42°45.2'	53.8	67°48.71.5'	09.9	47°10.6'	286.8	55°51.9'	306.1	30°45.4'	333.2
244	39°26.1'	35.8	35°25.3'	78.9	43°36.3'</									

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn																												
0	59°42.9'	04.1	19°31.9'	72.0	11°09.2'	98.1	30°31.6'	164.8	57°58.4'	205.7	27°23.5'	280.6	26°22.2'	323.4	90	51°21.7'	39.4	26°45.9'	76.2	30°19.2'	142.0	38°02.6'	175.3	33°16.9'	220.4	63°03.0'	311.5	42°05.1'	350.2																				
1	59°46.3'	02.4	20°28.9'	71.9	12°08.6'	98.2	30°47.0'	165.3	57°31.7'	207.1	26°24.5'	280.5	25°46.3'	323.0	91	51°59.3'	38.4	27°44.2'	76.0	30°56.0'	142.4	38°07.1'	176.1	32°37.8'	220.9	62°17.6'	310.2	41°54.5'	349.3																				
2	59°47.8'	00.6	21°25.9'	71.8	13°08.0'	98.2	31°01.9'	165.9	57°03.8'	208.4	26°25.5'	280.4	25°10.0'	322.6	92	52°36.1'	37.3	28°42.4'	75.9	31°32.4'	142.9	38°10.8'	176.8	31°58.4'	221.4	61°31.4'	309.0	41°42.9'	348.4																				
3	59°47.5'	358.9	22°22.9'	71.6	14°07.4'	98.2	31°16.2'	166.5	56°34.6'	209.8	24°26.5'	280.4	24°33.4'	327.5	93	53°12.1'	36.2	29°40.5'	75.7	32°08.4'	143.4	38°13.7'	177.6	31°18.5'	221.8	60°44.4'	307.9	41°40.4'	347.5																				
4	59°45.5'	357.1	23°19.8'	71.5	15°06.7'	98.2	31°30.0'	167.1	56°04.2'	211.0	23°27.5'	280.2	23°56.5'	321.8	94	53°47.0'	35.1	30°38.6'	75.6	32°44.0'	143.8	38°15.8'	178.4	30°38.4'	222.9	59°56.7'	306.8	41°17.0'	346.7																				
5	59°41.6'	355.4	24°16.6'	71.3	16°06.1'	98.2	31°43.1'	167.6	55°32.7'	212.3	22°28.4'	280.1	23°19.3'	321.5	95	54°21.1'	34.0	31°36.7'	75.4	33°19.2'	144.4	38°17.1'	179.2	29°57.9'	222.7	59°08.3'	305.8	41°02.7'	345.8																				
6	59°38.9'	353.7	25°13.4'	71.1	17°05.5'	98.3	31°55.7'	168.2	55°00.2'	213.5	21°29.3'	280.0	22°41.8'	321.1	96	54°54.1'	32.8	32°34.7'	75.2	33°53.9'	144.9	38°17.5'	179.9	29°17.1'	223.1	58°19.4'	304.8	40°47.6'	344.9																				
7	59°28.4'	352.0	26°10.2'	71.0	18°04.9'	98.3	32°07.6'	168.8	54°26.6'	214.6	20°30.3'	279.9	22°04.0'	320.8	97	55°26.2'	31.5	33°32.7'	75.0	34°28.2'	145.4	38°17.2'	180.7	28°36.6'	223.4	57°29.8'	303.0	40°16.6'	344.1																				
8	59°19.2'	350.9	27°06.9'	70.8	19°04.2'	98.3	32°18.9'	169.3	53°52.0'	215.7	19°31.1'	279.1	21°25.9'	320.5	98	55°56.8'	30.3	34°10.7'	74.8	35°05.0'	146.0	38°16.1'	181.2	27°54.6'	223.5	56°57.9'	303.0	40°14.7'	343.3																				
9	59°08.3'	348.6	28°03.5'	70.6	20°03.6'	98.3	32°29.6'	170.0	53°16.5'	216.8	18°32.0'	279.8	20°47.6'	320.2	99	56°26.5'	28.9	35°28.5'	74.6	35°35.3'	146.5	38°14.2'	182.2	27°12.9'	224.2	56°54.9'	302.2	39°57.0'	342.4																				
10	58°55.6'	347.0	29°00.0'	70.4	21°02.9'	98.4	32°39.7'	170.6	52°40.1'	217.8	17°32.9'	279.7	20°09.1'	319.8	100	56°54.9'	27.6	36°26.3'	74.4	36°08.2'	147.1	38°11.4'	183.0	26°31.0'	224.5	56°58.3'	301.4	39°38.5'	341.6																				
11	58°41.3'	345.4	29°56.5'	70.2	22°02.3'	98.4	32°49.1'	171.3	52°02.9'	218.8	16°33.8'	279.6	19°30.3'	319.6	101	57°22.0'	26.2	37°24.1'	74.2	36°40.5'	147.7	38°07.9'	183.8	25°48.8'	224.8	56°06.9'	300.7	39°19.2'	340.8																				
12	58°26.3'	343.8	30°52.9'	70.0	23°01.6'	98.5	32°57.9'	171.9	51°24.9'	219.8	15°34.4'	279.5	18°51.5'	319.3	102	57°47.8'	24.8	38°21.7'	74.0	37°12.2'	148.4	38°03.5'	184.5	25°06.4'	225.2	55°15.1'	300.0	38°59.1'	340.0																				
13	58°07.8'	342.2	31°49.2'	69.8	24°01.0'	98.5	33°06.1'	172.5	50°46.1'	220.7	14°35.4'	279.5	18°12.0'	319.0	103	58°12.2'	23.3	39°19.4'	73.7	37°43.2'	149.0	37°58.4'	185.3	24°23.7'	225.5	55°22.9'	299.3	38°38.3'	339.3																				
14	57°48.7'	340.7	32°45.5'	69.5	25°00.3'	98.6	33°13.6'	173.1	50°06.6'	221.6	13°36.3'	279.4	17°32.5'	318.7	104	58°35.2'	21.8	40°17.0'	73.5	38°14.0'	149.6	37°52.4'	186.1	23°40.9'	225.8	51°30.4'	298.7	38°16.6'	338.5																				
																						CAPPELLA		ALDEBARAN		*RIGEL		ACHERNAR		*FOMALHAUT		Enif		*Alpheratz		POLLUX		*REGULUS		Suhail		*CANOPUS		RIGEL		*ALDEBARAN		CAPPELLA	
15	16°36.8'	40.9	33°41.6'	69.3	25°59.6'	98.6	33°20.4'	173.8	49°26.4'	222.5	40°18.1'	284.0	57°28.1'	339.2	105	58°56.7'	20.2	41°14.4'	73.2	38°44.0'	150.3	37°45.7'	186.8	63°00.3'	253.8	50°37.7'	298.1	37°54.3'	337.8																				
16	17°15.9'	40.6	34°37.7'	69.0	26°58.9'	98.7	33°26.6'	174.4	48°45.6'	223.3	39°19.9'	283.8	57°06.1'	337.7	106	59°16.6'	18.6	42°11.8'	72.9	39°13.4'	151.0	37°38.2'	187.6	62°02.6'	263.4	49°44.4'	297.5	37°31.3'	337.0																				
17	17°54.9'	40.4	35°33.7'	68.7	27°58.2'	98.7	33°32.1'	175.1	48°04.1'	224.1	38°21.6'	283.6	56°42.7'	336.3	107	59°35.0'	17.0	43°09.1'	72.6	39°42.2'	151.7	37°29.9'	188.3	61°04.8'	254.8	48°51.2'	296.9	37°07.5'	336.3																				
18	18°33.6'	40.1	36°29.5'	68.5	28°57.5'	98.8	33°36.9'	175.7	47°22.1'	224.9	37°23.2'	283.4	56°17.9'	334.9	108	59°51.6'	15.3	44°06.3'	72.3	40°10.3'	152.4	37°20.9'	189.0	60°06.9'	255.2	47°57.6'	296.4	36°43.1'	335.6																				
19	19°12.1'	39.8	37°25.2'	68.2	29°56.8'	98.9	33°41.1'	176.3	46°39.5'	225.6	36°24.9'	283.5	55°51.8'	333.5	109	60°06.6'	13.6	45°03.7'	72.0	40°37.7'	153.2	37°11.1'	189.8	58°48.8'	256.6	46°70.3'	295.9	36°18.0'	334.9																				
20	19°50.4'	39.3	38°20.0'	67.8	30°56.0'	98.9	33°44.6'	177.0	45°56.3'	226.3	35°26.6'	283.5	55°24.4'	332.2	110	60°19.9'	11.9	46°00.0'	71.7	41°04.4'	153.9	37°00.5'	190.5	58°10.7'	256.0	46°09.9'	295.4	35°52.2'	334.3																				
21	20°28.5'	39.2	39°16.4'	67.3	31°55.3'	99.0	33°47.4'	177.6	45°12.7'	227.0	34°27.9'	283.4	54°55.9'	330.9	111	60°31.4'	10.2	46°57.4'	71.3	41°30.4'	154.7	36°49.2'	191.2	57°12.4'	256.4	45°15.4'	295.0	35°25.9'	333.6																				
22	21°06.3'	38.9	40°11.7'	67.2	32°54.5'	99.1	33°49.5'	178.3	44°28.6'	227.7	33°29.4'	282.7	54°26.2'	329.7	112	60°41.0'	8.8	47°54.1'	71.0	41°55.7'	155.5	36°37.2'	191.9	56°14.1'	256.7	44°20.9'	294.5	34°58.9'	332.9																				
23	21°43.8'	38.6	41°07.0'	66.8	33°53.8'	99.2	33°51.0'	178.9	43°44.4'	228.3	32°30.3'	282.5	53°55.4'	328.5	113	60°48.8'	6.6	48°50.8'	70.6	42°20.2'	156.3	36°24.4'	192.6	55°15.6'	257.0	43°26.3'	294.1	34°31.3'	332.3																				
24	22°21.1'	38.2	42°02.0'	66.3	34°53.0'	99.3	33°51.7'	179.6	42°59.0'	228.9	31°32.3'	282.3	53°23.5'	327.3	114	60°54.8'	4.8	49°47.3'	70.2	42°43.9'	157.1	36°10.9'	193.6	54°17.1'	257.3	42°31.3'	294.3	34°03.1'	331.7																				
25	22°58.1'	37.9	42°57.0'	66.1	35°52.2'	99.4	33°51.8'	180.3	42°13.6'	229.5	30°33.7'	282.2	52°50.6'	326.2	115	60°58.9'	3.0	50°43.6'	69.7	43°06.8'	158.0	35°56.7'	194.0	53°18.6'	257.6	41°36.5'	293.4	33°34.4'	331.1																				
26	23°34.8'	37.4	43°51.7'	65.7	36°51.4'	99.5	33°51.2'	180.9	41°27.8'	230.1	29°35.2'	282.1	52°16.7'	325.1	116	61°01.0'	1.2	51°39.9'	69.3	43°28.9'	158.8	35°41.8'	194.7	52°20.0'	257.9	40°41.3'	293.0	33°05.1'	330.9																				
27	24°11.2'	37.2	44°46.3'	65.3	37°50.5'	99.6	33°51.3'	181.6	40°41.6'	230.6	28°36.3'	281.9	51°42.0'	324.0	117	61°01.3'	359.3	52°35.9'	68.4	43°50.1'	159.7	35°26.3'	195.4	51°21.3'	258.1	39°46.6'	292.7	32°35.3'	329.5																				
28	24°47.3'	36.8	45°40.7'	64.8	38°49.7'	99.7	33°47.9'	182.2	39°55.1'	231.1	27°37.6'	281.8	51°06.3'	323.0	118	60°59.6'	357.5	53°31.7'	68.3	44°10.5'	160.6	35°10.0'	196.0	50°22.6'	258.3	38°50.6'	292.3	32°05.0'	329.4																				
29	25°23.1'	36.4	46°34.9'	64.3	39°48.8'	99.8	33°45.3'	182.9	39°08.2'	231.6	26°38.9'	281.7	50°29.8'	322.0	119	60°56.1'	355.7	54°27.3'	67.8	44°30.0'	161.5	34°53.1'	196.7	49°23.8'	258.6	37°55.0'	292.0	31°34.2'	328.8																				
																						CAPPELLA		*BETELGEUSE		SIRIUS		CANOPUS		*ACHERNAR		FOMALHAUT		*Alpheratz		*REGULUS		Gienah		*ACRUX		CANOPUS		SIRIUS		*BETELGEUSE		POLLUX	
30	25°58.5'	36.0	30°29.7'	80.8	17°58.8'	107.3	15°01.8'	145.0	33°42.0'	183.5	38°21.0'	232.1	49°52.5'	321.1	120	55°22.8'	67.2	24°49.4'	109.0	11°04.7'	155.0	34°35.5'	197.3	65°56.0'	228.1	58°01.0'	285.8	60°50.6'	353.9																				
31	26°33.6'	35.6	31°28.9'	80.7	18°56.1'	107.4	15°06.1'	145.2	33°37.9'	184.2	37°33.6'	232.5	49°14.4'	320.1	121	56°17.9'	66.6	25°46.7'	109.2	11°30.0'	155.2	34°17.3'	198.0	65°10.8'	229.6	57°03.3'	285.3	60°43.3'	352.1																				
32	27°08.3'	35.2	32°28.1'	80.6	19°53.3'	107.5	15°10.3'	145.4	33°33.3'	184.8	36°45.8'	233.0	48°35.6'	319.2	122	57°12.9'	66.0	26°42.7'	109.3	11°55.1'	155.3	33°58.5'	198.6	64°27.0'	230.5	56°05.3'	284.9	60°34.2'	350.3																				
33	27°42.7'	34.7	33°27.3'	80.4	20°50.5'	107.6	15°14.4'	145.7	33°27.9'	185.4	35°57.8'	233.4	47°56.1'	318.4	123	57°07.5'	65.3	27°39.3'	109.5	12°20.1'	155.5	33°39.0'	199.2	63°37.7'	232.2	55°07.2'	284.5	60°23.2'	348.6																				
34	28°16.6'	34.3	34°26.4'	80.2	21°47.7'	107.7	15°18.0'	145.9	33°21.9'	186.1	35°09.5'	233.8	47°15.9'	317.6	124	59°01.6'	64.6	28°35.3'	109.6	12°44.8'	155.7	33°19.0'	200.8	62°49.9'	233.3	54°09.1'	284.1	60°10.4'	346.8																				
35	28°50.2'	33.8	35°25.5'	80.0	22°44.9'	107.8	15°21.5'	146.1	33°15.2'	186.7	34°20.9'	234.2	46°35.1'	316.8	125	59°55.9'	63.9	29°32.3'	109.8	13°09.4'	155.9	32°58.3'	199.6	62°01.4'	234.5	53°10.9'	283.8																						

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn														
0	57°43.2'	03.9	18°54.2'	71.4	11°25.8'	97.7	32°27.3'	164.5	59°45.9'	207.2	27°00.4'	281.6	24°45.5'	324.0	90	49°47.9'	37.8	26°16.3'	75.2	31°53.2'	141.2	40°02.1'	175.2	34°47.7'	221.3	61°41.2'	314.3	40°06.8'	350.5						
1	57°46.4'	02.2	19°50.9'	71.2	12°25.2'	97.7	32°43.0'	165.0	59°17.8'	208.6	26°01.7'	281.4	24°10.1'	323.6	91	50°24.2'	36.8	27°14.2'	75.0	32°30.6'	141.6	40°06.8'	176.0	34°07.9'	221.8	60°57.9'	313.0	39°56.5'	349.6						
2	57°47.8'	00.6	20°47.6'	71.0	13°24.5'	97.7	32°58.2'	165.6	58°48.5'	210.0	25°03.0'	281.3	23°34.3'	323.1	92	50°59.7'	35.8	28°12.0'	74.0	33°07.6'	142.1	40°10.6'	176.8	33°27.8'	222.2	60°13.6'	311.8	39°45.3'	348.8						
3	57°47.6'	358.9	21°44.3'	70.9	14°23.9'	97.7	33°01.8'	166.2	58°17.9'	211.4	24°04.2'	281.2	22°58.2'	322.9	93	51°34.3'	34.7	29°09.8'	74.0	33°44.2'	142.6	40°13.6'	176.5	32°47.4'	222.7	59°28.6'	310.6	39°33.2'	347.9						
4	57°45.6'	357.3	22°40.8'	70.7	15°23.3'	97.7	33°26.9'	166.8	57°46.2'	212.7	23°05.4'	281.0	22°22.1'	322.4	94	52°08.0'	33.6	30°07.6'	74.0	34°20.4'	143.1	40°15.7'	178.3	32°06.6'	223.1	58°42.6'	309.4	39°20.2'	347.0						
5	57°41.9'	355.7	23°37.4'	70.5	16°22.7'	97.7	33°53.3'	167.4	57°13.3'	213.9	22°06.6'	280.9	21°45.1'	322.0	95	52°40.0'	32.8	31°05.2'	74.2	34°56.2'	143.6	40°17.1'	179.1	31°25.6'	223.5	57°56.0'	309.4	39°06.3'	346.2						
6	57°36.6'	354.1	24°33.8'	70.3	17°22.1'	97.7	34°20.6'	168.0	56°39.3'	215.1	21°07.7'	280.8	21°08.0'	321.6	96	53°12.3'	31.3	32°02.9'	74.0	35°31.6'	144.1	40°17.5'	179.9	30°44.2'	223.8	57°08.7'	307.4	38°51.6'	345.4						
7	57°29.5'	352.4	25°30.3'	70.1	18°21.5'	97.7	34°48.3'	168.6	56°04.0'	216.3	20°08.9'	280.6	20°30.7'	321.3	97	53°42.9'	30.1	33°00.0'	74.0	36°06.5'	144.6	40°17.2'	180.7	30°02.6'	224.2	56°20.7'	306.4	38°36.0'	344.5						
8	57°20.8'	350.8	26°26.4'	69.8	19°20.8'	97.7	35°16.1'	169.2	55°28.4'	217.4	19°10.0'	280.5	19°53.1'	320.9	98	54°12.4'	28.9	33°57.9'	74.0	36°39.0'	145.2	40°16.1'	181.5	29°20.6'	224.6	55°32.2'	305.5	38°19.6'	343.7						
9	57°10.5'	349.3	27°22.6'	69.6	20°20.2'	97.7	35°44.7'	169.8	54°51.5'	218.5	18°11.0'	280.4	19°15.2'	320.6	99	54°40.0'	27.6	34°55.3'	74.0	37°15.0'	145.7	40°14.1'	182.3	28°38.5'	224.9	54°43.2'	304.6	38°02.4'	342.9						
10	56°58.5'	347.7	28°18.8'	69.4	21°19.6'	97.7	36°12.1'	170.4	54°13.8'	219.5	17°12.1'	280.3	18°37.3'	320.3	100	55°07.9'	26.2	35°52.7'	74.0	37°48.5'	146.3	40°11.2'	183.1	27°56.0'	225.2	53°53.6'	303.8	37°44.4'	342.1						
11	56°45.0'	346.2	29°14.8'	69.2	22°19.0'	97.7	36°40.4'	171.1	53°36.3'	220.5	16°13.1'	280.2	17°58.6'	320.0	101	55°33.7'	24.9	36°50.0'	74.0	38°21.5'	146.9	40°07.6'	183.9	27°13.4'	225.6	53°09.6'	303.7	37°26.7'	341.3						
12	56°29.9'	344.6	30°10.7'	68.9	23°18.4'	97.7	37°08.6'	171.7	52°56.0'	221.5	15°14.1'	280.1	17°20.0'	319.7	102	55°58.3'	23.5	37°47.1'	74.0	38°53.9'	147.6	40°03.1'	184.7	26°30.4'	225.9	52°13.1'	302.2	37°06.1'	340.6						
13	56°13.2'	343.1	31°06.6'	68.6	24°17.8'	97.7	37°36.9'	172.3	52°15.9'	222.4	14°15.1'	280.0	16°41.1'	319.4	103	56°21.5'	22.1	38°24.1'	74.0	39°25.8'	148.2	39°57.8'	185.2	25°47.4'	226.1	51°22.2'	301.5	36°45.8'	339.8						
14	55°55.1'	341.7	32°02.3'	68.3	25°17.2'	97.7	38°05.1'	173.0	51°35.2'	223.3	13°16.1'	279.9	16°02.1'	319.1	104	56°43.3'	20.6	38°41.2'	74.0	39°59.7'	148.8	39°51.7'	186.2	25°04.1'	226.4	50°30.9'	300.8	36°24.8'	339.1						
			CAPELLA		ALDEBARAN		*RIGEL		ACHERNAR		*FOMALHAUT		ALTAIR		*DENEBO							POLLUX		*REGULUS		Subaihi		*CANOPUS		RIGEL		*ALDEBARAN		CAPELLA	
15	15°05.7'	40.5	32°57.9'	68.0	26°16.6'	97.6	35°19.7'	173.6	50°53.7'	224.1	39°47.4'	285.6	55°33.6'	340.2	105	57°03.7'	19.1	40°38.1'	74.0	40°27.8'	149.5	39°44.8'	187.0	63°30.0'	257.6	49°39.3'	299.1	36°03.0'	338.3						
16	15°44.6'	40.2	33°53.6'	67.7	27°16.0'	97.6	35°46.0'	174.3	50°11.7'	224.9	38°49.7'	285.3	55°14.6'	338.8	106	57°22.6'	17.6	41°34.9'	74.0	41°20.7'	150.2	39°37.1'	187.8	62°31.4'	258.0	48°47.3'	299.5	35°40.5'	337.9						
17	16°23.2'	40.0	34°48.9'	67.4	28°15.3'	97.6	35°51.6'	174.9	49°29.1'	225.7	37°51.9'	285.1	54°52.3'	337.4	107	57°39.9'	16.0	42°31.6'	74.0	41°27.4'	150.9	39°28.6'	188.5	61°32.8'	258.3	47°55.0'	298.9	35°17.4'	336.9						
18	17°01.5'	39.7	35°44.1'	67.1	29°14.7'	97.6	35°36.6'	175.6	48°45.9'	226.5	36°54.0'	284.8	54°28.7'	336.1	108	57°55.7'	14.5	43°28.1'	74.0	41°56.2'	151.6	39°19.4'	189.3	60°34.0'	258.6	47°02.4'	298.3	34°53.5'	336.2						
19	17°39.7'	39.4	36°39.2'	66.8	30°14.1'	97.6	35°34.0'	176.1	47°48.9'	227.5	35°56.0'	284.2	54°03.8'	334.8	109	58°09.0'	12.9	44°24.4'	74.0	42°24.4'	152.4	39°09.3'	190.9	57°27.13	259.4	46°09.5'	297.8	34°29.0'	335.5						
20	18°17.6'	39.1	37°34.2'	66.4	31°13.5'	97.6	35°34.4'	176.9	47°18.0'	227.9	34°58.0'	284.4	53°37.6'	333.5	110	58°22.3'	11.2	45°20.0'	74.0	42°51.8'	153.1	38°58.5'	191.8	56°38.6'	259.2	45°16.1'	297.3	34°03.9'	334.9						
21	18°55.2'	38.8	38°29.1'	66.0	32°12.8'	97.6	35°34.7'	177.6	46°33.3'	228.5	33°60.0'	284.1	53°10.3'	332.8	111	58°33.1'	9.9	46°17.0'	74.0	43°13.5'	153.9	38°46.9'	190.5	57°37.6'	259.4	44°23.0'	296.8	33°38.1'	334.2						
22	19°32.6'	38.4	39°23.7'	65.7	33°12.2'	97.6	35°34.9'	178.3	45°48.2'	229.2	33°01.8'	283.9	52°41.9'	331.0	112	58°42.2'	8.7	47°13.0'	74.0	43°43.4'	154.7	38°34.5'	192.3	56°38.6'	259.7	43°29.4'	296.3	33°11.7'	333.6						
23	20°09.7'	38.1	40°18.2'	65.3	34°11.6'	97.6	35°35.1'	178.9	45°02.7'	229.8	32°03.6'	283.7	52°12.3'	329.9	113	58°49.9'	6.6	48°08.8'	74.0	44°09.7'	155.5	38°21.4'	193.0	55°39.7'	259.9	42°35.6'	295.8	32°44.7'	332.9						
24	20°46.6'	37.8	41°12.6'	64.8	35°10.9'	97.6	35°35.1'	179.6	44°16.7'	230.4	31°05.4'	283.1	51°41.7'	328.7	114	58°55.2'	5.4	49°04.8'	74.0	44°34.0'	156.4	38°07.6'	193.0	54°50.7'	260.1	41°41.6'	295.4	32°17.2'	332.3						
25	21°23.1'	37.4	42°06.7'	64.4	36°10.3'	97.6	35°35.1'	180.3	43°30.4'	230.9	30°07.1'	283.3	51°10.1'	327.6	115	58°59.0'	4.2	49°59.9'	74.0	44°57.7'	157.2	37°53.0'	194.4	53°41.6'	260.3	40°47.3'	295.0	31°49.1'	331.7						
26	21°59.3'	37.0	43°00.7'	64.0	37°09.6'	97.6	35°35.1'	180.9	42°43.7'	231.5	29°08.8'	283.2	50°37.5'	326.5	116	59°01.0'	3.1	50°55.1'	74.0	45°20.5'	158.1	37°37.8'	195.1	52°42.6'	260.4	39°52.9'	294.5	31°20.4'	331.1						
27	22°35.3'	36.7	43°54.4'	63.8	38°08.9'	97.6	35°34.9'	181.6	41°56.7'	232.0	28°10.5'	283.0	50°04.0'	325.6	117	59°01.3'	2.0	51°50.1'	74.0	45°42.4'	159.0	37°21.8'	195.8	51°43.5'	260.6	38°58.3'	294.3	30°51.2'	330.1						
28	23°10.9'	36.3	44°47.9'	63.0	39°08.2'	97.6	35°34.7'	182.3	41°09.3'	232.5	27°12.0'	282.8	49°29.5'	324.4	118	58°59.7'	0.9	52°44.9'	74.0	46°03.4'	159.9	37°05.2'	196.5	50°44.4'	260.7	38°03.6'	293.8	30°30.2'	330.0						
29	23°46.2'	35.9	45°41.2'	62.5	40°07.6'	97.6	35°34.5'	182.9	40°21.7'	232.9	26°13.6'	282.7	48°54.3'	323.4	119	58°56.4'	0.6	53°39.9'	74.0	46°23.5'	160.8	36°47.9'	197.1	49°45.2'	260.9	37°08.7'	293.4	29°51.2'	329.4						
			CAPELLA		*BETELGEUSE		SIRIUS		CANOPUS		*ACHERNAR		FOMALHAUT		*Alpheratz								*REGULUS		Genah		*ACRUX		*CANOPUS		SIRIUS		*BETELGEUSE		POLLUX
30	24°21.1'	35.4	30°09.3'	79.6	18°33.9'	106.7	16°39.9'	144.7	35°41.7'	183.6	39°33.7'	233.4	48°18.2'	322.5	120	54°33.8'	64.6	25°27.6'	108.1	12°53.4'	154.8	36°29.9'	197.8	67°13.3'	231.7	57°25.4'	288.8	58°51.3'	354.3						
31	24°56.7'	35.0	31°08.2'	79.5	19°31.3'	106.7	17°14.5'	144.9	35°37.6'	184.3	38°45.5'	233.8	47°41.1'	321.6	121	55°27.4'	63.9	26°24.6'	108.2	13°18.8'	155.0	36°11.3'	198.4	66°25.8'	234.0	56°28.5'	288.2	58°44.4'	352.6						
32	2																																		

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn		
180	30°05.0'	08.9	49°48.7'	55.3	21°17.5'	117.3	29°34.4'	176.4	34°33.6'	216.8	51°55.8'	259.6	58°45.5'	298.9	270	47°18.4'	10.8	29°44.8'	31.7	32°27.9'	76.2	14°47.4'	119.8	28°53.2'	157.9	58°13.6'	220.3	30°50.3'	294.4
181	30°13.9'	08.2	50°37.8'	54.5	22°10.7'	117.4	29°37.9'	176.9	33°57.5'	217.3	50°56.8'	259.8	57°52.8'	298.1	271	47°29.0'	09.7	30°16.1'	31.2	33°26.0'	76.0	15°39.4'	119.8	29°15.5'	158.4	57°34.4'	221.4	29°55.7'	294.1
182	30°22.1'	07.6	51°26.3'	53.8	23°03.9'	117.6	29°40.8'	177.4	33°21.1'	217.7	49°57.8'	260.0	56°59.8'	297.3	272	47°38.6'	08.6	30°46.9'	30.6	34°24.1'	75.8	16°31.3'	119.9	29°37.4'	158.9	56°54.4'	222.5	29°00.9'	293.8
183	30°29.7'	07.2	52°14.4'	53.0	23°56.9'	117.7	29°45.2'	178.0	32°44.2'	218.2	48°58.8'	260.1	56°06.4'	296.6	273	47°46.9'	07.4	31°17.2'	30.1	35°22.2'	75.1	17°23.3'	120.0	29°58.7'	159.3	56°13.5'	223.6	28°06.0'	293.5
184	30°36.6'	06.3	53°02.0'	52.1	24°49.9'	117.9	29°45.1'	178.5	32°07.0'	218.6	47°59.8'	260.3	55°12.6'	295.9	274	47°54.1'	06.3	31°46.9'	29.5	36°20.2'	75.3	18°15.1'	120.1	30°19.6'	159.8	55°31.4'	224.6	27°11.0'	293.3
185	30°42.9'	05.7	53°49.0'	51.2	25°42.9'	118.1	29°46.4'	179.0	31°29.4'	219.1	47°00.7'	260.4	54°18.6'	295.2	275	48°00.0'	05.1	32°16.1'	28.9	37°18.1'	75.1	19°06.9'	120.0	30°40.4'	160.3	54°49.4'	225.6	26°15.9'	293.0
186	30°48.5'	05.0	54°35.4'	50.3	26°35.7'	118.2	29°47.2'	179.5	30°51.5'	219.5	46°01.6'	260.5	53°24.2'	294.6	276	48°04.8'	04.0	32°44.8'	28.3	38°16.0'	74.8	19°58.6'	120.4	30°60.0'	160.8	54°06.3'	226.4	25°20.7'	292.8
187	30°53.4'	04.3	55°21.2'	49.3	27°28.4'	118.4	29°48.4'	180.0	30°13.2'	219.9	45°02.5'	260.6	52°29.9'	294.0	277	48°08.3'	02.8	33°12.9'	27.6	39°13.7'	74.5	20°50.6'	120.5	31°19.4'	161.4	53°22.6'	227.3	24°25.4'	292.5
188	30°57.7'	03.7	56°06.3'	48.3	28°16.1'	118.6	29°49.1'	180.6	29°34.6'	220.3	44°03.4'	260.7	51°34.7'	293.4	278	48°10.6'	01.6	33°40.4'	27.0	40°11.5'	74.3	21°41.9'	120.7	31°38.1'	161.6	52°38.2'	228.2	23°30.1'	292.3
189	31°01.3'	03.1	56°50.7'	47.2	29°13.6'	118.8	29°46.3'	181.1	28°55.7'	220.6	43°04.2'	260.8	50°39.6'	292.9	279	48°11.7'	00.5	34°07.3'	26.4	41°09.1'	74.0	22°33.4'	120.8	31°56.7'	162.4	51°53.3'	229.0	22°34.6'	292.1
190	31°04.2'	02.4	57°34.3'	46.1	30°06.1'	119.1	29°44.9'	181.6	28°16.6'	221.0	42°05.1'	260.9	49°44.3'	292.4	280	48°11.6'	35.9	34°33.6'	25.7	42°06.6'	73.7	23°24.8'	121.0	32°14.5'	163.0	51°07.8'	229.7	21°39.0'	291.9
191	31°06.4'	01.8	58°17.0'	45.0	30°58.4'	119.3	29°45.2'	182.1	27°37.1'	221.3	41°05.9'	261.0	48°48.8'	291.9	281	48°10.3'	35.8	34°59.2'	25.0	43°04.1'	73.4	24°16.1'	121.2	32°31.8'	163.5	50°21.9'	230.5	20°43.9'	291.7
192	31°07.9'	01.1	58°58.9'	43.7	31°50.6'	119.5	29°40.5'	182.6	26°57.4'	221.7	40°06.7'	261.1	47°53.1'	291.4	282	48°07.7'	35.7	35°24.2'	24.4	44°01.5'	73.0	25°07.3'	121.4	32°48.5'	164.1	49°35.4'	231.1	19°47.7'	291.5
193	31°08.7'	00.5	59°39.8'	42.3	32°42.6'	119.8	29°37.4'	183.1	26°17.4'	222.0	39°07.5'	261.2	46°57.3'	291.0	283	48°04.0'	35.0	35°48.6'	23.6	44°58.7'	72.5	25°58.4'	121.5	33°04.6'	164.7	48°48.5'	231.8	18°51.9'	291.3
194	31°08.9'	35.8	60°19.8'	41.1	33°34.6'	120.1	29°33.9'	183.7	25°37.2'	222.3	38°08.3'	261.2	46°01.2'	290.5	284	47°59.0'	35.4	36°12.2'	22.9	45°55.9'	72.3	26°49.4'	121.8	33°20.2'	165.2	48°01.2'	232.5	17°56.1'	291.2
195	30°58.6'	39.7	19°47.2'	75.5	34°26.3'	120.4	29°29.8'	184.2	37°09.1'	261.3	45°05.0'	290.1	31°08.4'	359.2	285	36°35.2'	22.2	46°52.9'	72.0	27°40.3'	122.0	33°35.2'	165.8	47°13.5'	233.1	63°57.3'	307.1	147°52.8'	353.5
196	31°36.3'	38.2	20°45.2'	75.4	35°18.0'	120.7	29°25.2'	184.7	36°09.8'	261.4	44°08.7'	289.7	31°07.1'	358.5	286	36°57.4'	21.4	47°47.8'	71.6	28°31.1'	122.2	33°49.6'	166.4	46°42.6'	233.7	63°09.1'	305.8	147°46.4'	352.3
197	62°12.8'	36.7	21°43.1'	75.2	36°09.4'	121.0	29°20.0'	185.2	35°10.6'	261.4	43°12.3'	289.4	31°05.2'	357.9	287	37°18.9'	20.7	48°46.6'	71.2	29°21.7'	122.4	34°03.3'	167.0	45°37.0'	234.2	62°20.2'	304.6	147°36.8'	351.2
198	62°47.4'	35.1	22°41.0'	75.1	37°00.7'	121.3	29°14.3'	185.7	34°11.4'	261.5	42°15.7'	289.0	31°02.7'	356.2	288	37°39.7'	19.9	49°43.2'	70.7	30°12.2'	122.7	34°16.5'	167.6	44°48.2'	234.8	61°30.6'	303.5	147°27.1'	350.1
199	63°21.6'	33.4	23°38.9'	74.9	37°53.1'	121.6	29°08.1'	186.2	33°12.1'	261.6	41°19.0'	288.0	30°59.4'	357.5	289	37°59.7'	19.1	50°39.9'	70.0	31°02.5'	123.0	34°29.0'	168.2	43°31.8'	235.3	60°21.9'	302.5	147°16.2'	349.0
200	63°53.9'	31.7	24°36.7'	74.7	38°42.7'	122.0	29°01.4'	186.7	32°12.8'	261.6	40°22.1'	288.0	30°55.4'	355.9	290	38°18.9'	18.5	51°36.0'	69.3	31°52.7'	123.3	34°40.0'	169.4	42°30.9'	236.7	59°49.5'	301.6	147°04.7'	347.9
201	64°24.5'	29.8	25°34.5'	74.9	39°33.4'	122.4	28°54.2'	187.1	31°13.6'	261.6	39°25.1'	288.0	30°50.8'	355.3	291	38°37.3'	17.7	52°32.2'	69.3	32°42.7'	123.6	34°52.2'	169.6	41°42.0'	237.5	58°58.2'	300.4	146°51.0'	346.8
202	64°53.5'	27.9	26°32.2'	74.4	40°23.9'	122.8	28°46.4'	187.7	30°14.3'	261.6	38°28.2'	287.7	30°45.5'	354.6	292	38°54.9'	16.7	53°28.1'	68.8	33°32.6'	123.9	35°02.8'	170.1	41°30.1'	238.7	58°06.4'	299.7	146°36.7'	345.7
203	65°25.0'	26.2	27°29.9'	74.2	41°14.2'	123.2	28°38.2'	188.2	29°15.0'	261.7	37°31.1'	287.5	30°39.5'	354.0	293	39°11.7'	15.8	54°23.9'	68.2	34°22.3'	124.2	35°12.7'	170.8	40°40.0'	239.1	57°14.2'	298.9	146°21.3'	344.6
204	65°45.9'	23.8	28°27.5'	74.0	42°04.2'	123.6	28°30.4'	188.7	28°15.7'	261.7	36°33.1'	287.4	30°32.9'	353.3	294	39°27.6'	15.0	55°19.3'	67.6	35°11.7'	124.5	35°22.0'	171.4	39°49.6'	239.5	56°21.5'	298.1	146°04.9'	343.6
205	66°09.2'	21.8	29°25.1'	73.8	42°53.9'	124.1	28°20.1'	189.1	27°16.4'	261.7	35°36.6'	286.9	30°25.6'	352.7	295	39°42.7'	14.2	56°14.7'	67.0	36°01.0'	124.9	35°30.6'	172.1	38°58.9'	239.7	55°28.5'	297.4	145°47.4'	342.5
206	66°30.4'	19.3	30°22.6'	73.4	43°43.4'	124.6	28°10.4'	189.6	26°17.1'	261.7	34°39.3'	286.7	30°17.7'	352.1	296	39°56.9'	13.3	57°09.7'	66.4	36°50.0'	125.2	35°38.5'	172.7	38°08.0'	238.6	54°35.1'	296.7	145°28.9'	341.5
207	66°49.4'	17.6	31°20.0'	73.3	44°32.6'	125.1	28°00.1'	190.1	25°17.8'	261.7	33°41.8'	286.4	30°09.1'	351.4	297	40°10.3'	12.8	58°04.0'	65.5	37°38.8'	125.6	35°45.8'	173.8	37°17.0'	238.2	53°41.4'	296.0	145°09.4'	340.5
208	67°06.2'	15.1	32°17.4'	73.1	45°21.5'	125.6	27°49.4'	190.6	24°18.5'	261.8	32°44.3'	286.2	29°59.8'	350.8	298	40°22.7'	11.8	58°58.9'	64.9	38°27.4'	126.0	35°52.3'	174.0	36°26.8'	238.9	52°47.4'	295.4	144°48.9'	339.5
209	67°20.6'	12.7	33°14.7'	72.9	46°10.0'	126.2	27°38.2'	191.0	23°19.2'	261.8	31°46.7'	285.9	29°49.9'	350.2	299	40°34.2'	10.7	59°53.0'	64.2	39°15.7'	126.5	35°58.2'	174.7	35°34.4'	239.2	51°53.2'	294.8	144°27.4'	338.5
210	67°32.5'	10.3	33°56.7'	48.7	46°58.2'	126.7	31°33.7'	174.2	27°26.5'	191.5	60°46.4'	238.1	30°49.1'	285.7	300	40°44.9'	09.8	22°16.0'	56.7	40°03.8'	126.9	36°03.4'	175.4	34°42.8'	239.6	50°58.6'	294.2	144°05.0'	337.6
211	67°42.0'	07.9	34°41.6'	48.5	47°46.0'	127.3	31°39.5'	174.7	27°14.3'	191.9	59°55.3'	239.0	29°51.4'	285.5	301	40°54.6'	08.9	23°06.0'	56.4	40°51.6'	127.4	36°07.9'	176.1	33°51.1'	239.8	50°03.9'	293.7	143°41.7'	336.6
212	67°48.9'	05.4	35°26.4'	48.3	48°33.5'	128.0	31°44.7'	175.3	27°01.7'	192.4	59°03.7'	239.8	28°53.6'	285.3	302	41°03.3'	07.9	23°55.8'	56.1	41°39.0'	127.9	36°11.6'	177.3	32°59.2'	240.1	49°08.3'	292.4	143°17.5'	335.0
213	67°53.2'	02.9	36°11.1'	48.0	49°20.5'	128.6	31°49.3'	175.9	26°48.6'	192.8	58°11.7'	240.5	27°55.8'	285.1	303	41°11.1'	07.0	24°45.5'	55.8	42°26.2'	128.4	36°14.7'	177.4	32°07.2'	240.4	48°13.7'	292.7	142°52.4'	334.8
214	67°54.9'	00.4	36°55.5'	47.8	50°07.1'	129.3	31°53.3'	176.4	26°35.1'	193.3	57°19.3'	241.3	26°57.9'	284.9	304	41°18.0'	06.1	25°34.9'	55.5	43°13.0'	128.9	36°17.7'	178.1	31°15.0'	240.6	47°18.3'	292.2	142°26.5'	333.9
215	67°54.0'	357.9	17°39.8'	47.5	50°53.2'	130.0	31°56.8'	177.0	26°21.1'	193.7	56°26.6'	241.9	26°50.0'	284.8	305	41°23.9'	05.2	26°24.2'	55.1	43°59.5'	129.4	36°18.7'	178.8	30°22.8'	240.9	46°22.7'	291.7	141°59.7'	333.1
216	67°50.4'	355.1	18°23.9'	47.3	51°38.8'	130.8	31°59.6'	177.6	26°06.7'	194.1	55°33.3'	242.6	25°02.0'	284.6	306	41°28.8'	04.4	27°13.3'	54.8	44°45.5'	130.0	36°19.6'	179.5	29°30.0'	2				

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	
0	*Alpheratz	54°43.6'	03.61	17°55.3'	70.41	11°49.1'	97.1	35°20.5'	163.9	62°24.2'	209.7	26°22.0'	283.1	22°19.3'	324.7
1		54°46.5'	02.1	18°51.5'	70.2	12°48.3'	97.1	35°36.7'	164.5	61°53.9'	211.3	25°23.8'	282.9	21°44.6'	324.3
2		54°47.8'	00.5	19°47.6'	70.0	13°47.5'	97.0	35°52.4'	165.1	61°22.3'	212.7	24°25.6'	282.7	21°09.6'	323.9
3		54°47.6'	359.0	20°43.6'	69.8	14°46.8'	96.9	36°05.4'	165.7	60°49.4'	214.1	23°27.4'	282.4	20°34.3'	323.5
4		54°45.8'	357.5	21°39.5'	69.5	15°46.0'	96.8	36°21.9'	166.3	60°15.4'	215.5	22°29.1'	282.3	19°58.6'	323.1
5		54°42.4'	356.0	22°35.4'	69.3	16°45.3'	96.8	36°35.7'	166.9	59°40.2'	216.7	21°30.8'	282.1	19°22.6'	322.7
6		54°37.5'	354.5	23°31.2'	69.0	17°44.5'	96.7	36°49.0'	167.5	59°04.0'	218.0	20°32.4'	281.9	18°46.2'	322.3
7		54°31.0'	353.0	24°26.8'	68.8	18°43.3'	96.7	36°03.1'	168.1	58°26.8'	219.2	19°34.0'	281.7	18°09.6'	321.9
8		54°23.0'	351.4	25°22.4'	68.5	19°43.1'	96.6	35°17.5'	168.8	57°48.6'	220.3	18°35.28'	281.5	17°32.7'	321.6
9		54°13.4'	350.1	26°17.9'	68.2	20°42.4'	96.5	35°72.8'	169.4	57°09.6'	221.4	17°37.0'	281.4	16°55.4'	321.2
10		54°02.3'	348.6	27°13.2'	67.9	21°41.7'	96.4	35°37.5'	170.1	56°29.8'	222.4	16°38.5'	281.2	16°17.9'	320.9
11		53°49.8'	347.2	28°08.4'	67.6	22°41.0'	96.3	35°40.4'	170.7	55°49.2'	223.4	15°40.0'	281.0	15°40.2'	320.6
12		53°36.3'	345.7	29°03.5'	67.3	23°40.3'	96.3	35°33.7'	171.4	55°07.9'	224.3	14°41.4'	280.9	15°02.1'	320.3
13		53°20.4'	344.3	29°58.5'	67.0	24°39.6'	96.3	35°04.4'	172.0	54°25.9'	225.2	13°42.8'	280.7	14°23.9'	320.0
14		53°03.6'	343.0	30°53.4'	66.6	25°38.9'	96.2	34°11.3'	172.7	53°43.2'	226.1	12°44.1'	280.6	13°45.4'	319.7
15	Hamal														
16		56°04.0'	28.8	31°48.1'	66.3	26°38.2'	96.2	33°18.5'	173.4	52°60.0'	226.9	38°55.4'	288.0	52°45.4'	341.6
17		56°32.1'	27.4	32°42.6'	65.9	27°37.5'	96.1	33°25.1'	174.0	52°16.1'	227.7	37°58.6'	287.6	52°25.9'	340.3
18		56°58.9'	25.9	33°37.0'	65.6	28°36.9'	96.1	33°30.9'	174.7	51°31.8'	228.4	37°01.7'	287.3	52°05.1'	339.0
19		57°24.3'	24.3	34°31.3'	65.2	29°36.2'	96.0	33°36.0'	175.4	50°46.9'	229.1	36°04.6'	287.0	51°43.1'	337.7
20		57°48.2'	22.9	35°25.8'	64.8	30°35.6'	96.0	33°40.4'	176.1	50°1.6'	229.8	35°07.5'	286.7	51°19.8'	336.4
21		58°10.7'	21.3	36°19.2'	64.3	31°34.9'	96.0	33°44.2'	176.8	49°15.8'	230.4	34°10.3'	286.4	50°55.5'	335.2
22		58°31.6'	19.7	37°12.9'	63.9	32°34.3'	95.9	33°47.4'	177.5	48°29.6'	231.0	33°13.0'	286.0	50°29.7'	334.0
23		58°51.0'	18.1	38°06.4'	63.5	33°33.6'	95.9	33°49.4'	178.2	47°43.0'	231.6	32°15.6'	285.8	50°03.0'	332.8
24		59°08.6'	16.4	38°59.7'	63.0	34°33.0'	95.8	33°50.9'	178.9	46°56.0'	232.2	31°18.2'	285.5	49°35.2'	331.7
25		59°24.6'	14.7	39°52.8'	62.5	35°32.3'	95.8	33°51.7'	179.6	46°08.7'	232.7	30°20.7'	285.2	49°06.4'	330.6
26		59°38.8'	12.9	40°45.6'	62.1	36°31.7'	95.7	33°51.8'	180.3	45°21.1'	233.2	29°23.0'	285.0	48°36.5'	329.5
27		59°51.2'	11.1	41°38.2'	61.5	37°31.1'	95.7	33°51.2'	181.0	44°33.1'	233.7	28°25.4'	284.8	48°05.7'	328.4
28		60°01.9'	9.9	42°30.5'	61.0	38°30.5'	95.6	33°49.8'	181.7	43°44.8'	234.2	27°27.6'	284.6	47°34.0'	327.4
29		60°10.6'	8.7	43°22.6'	60.4	39°29.8'	95.6	33°47.7'	182.4	42°56.3'	234.6	26°29.8'	284.3	47°01.4'	326.3
30		60°17.5'	05.7	44°14.3'	59.9	40°29.2'	95.6	33°44.9'	183.1	42°07.5'	235.1	25°32.0'	284.1	46°27.9'	325.4
31	CAPELLA														
32		21°53.8'	34.7	29°34.3'	78.0	19°24.0'	105.7	19°06.3'	144.1	38°41.4'	183.7	41°18.5'	235.5	45°53.5'	324.4
33		22°27.6'	34.3	30°32.7'	77.7	20°21.4'	105.7	19°14.2'	144.3	38°37.1'	184.4	40°29.2'	236.8	45°18.4'	323.5
34		23°01.0'	34.1	31°30.9'	77.5	21°18.9'	105.7	19°20.1'	144.5	38°32.1'	185.1	39°39.8'	236.8	44°42.5'	323.6
35		23°34.0'	33.4	32°29.2'	77.3	22°16.3'	105.7	19°25.0'	144.7	38°26.5'	185.8	38°50.0'	236.5	44°05.9'	321.7
36		24°06.6'	32.9	33°27.3'	77.0	23°13.8'	105.7	19°24.9'	144.9	38°20.1'	186.5	38°00.2'	236.9	43°28.6'	320.9
37		24°38.8'	32.4	34°25.5'	76.7	24°11.3'	105.7	19°21.9'	145.1	38°13.0'	187.2	37°10.1'	237.2	42°50.6'	320.2
38		25°10.6'	31.9	35°23.5'	76.5	25°08.7'	105.7	19°23.2'	145.3	38°05.2'	187.8	36°19.9'	237.5	42°12.1'	319.2
39		25°41.9'	31.4	36°21.5'	76.2	26°06.1'	105.7	19°23.0'	145.5	37°56.8'	188.5	35°29.5'	237.8	41°32.7'	318.5
40		26°12.8'	30.9	37°19.4'	75.9	27°03.6'	105.8	19°23.0'	145.8	37°47.6'	189.1	34°39.0'	238.0	40°52.9'	317.7
41		26°43.2'	30.4	38°17.3'	75.6	28°01.0'	105.8	19°24.1'	146.1	37°37.3'	189.8	33°48.3'	238.3	40°12.4'	317.0
42		27°13.1'	29.8	39°15.0'	75.3	28°58.4'	105.8	19°24.2'	146.3	37°27.3'	190.4	32°57.5'	238.5	39°31.3'	316.3
43		27°42.5'	29.3	40°12.7'	75.0	29°55.8'	105.9	19°25.0'	146.6	37°16.1'	191.1	32°06.5'	238.7	38°50.0'	315.6
44		28°11.4'	28.7	41°10.3'	74.7	30°53.2'	105.9	19°25.8'	146.9	37°04.3'	191.7	31°15.4'	239.0	38°08.0'	314.9
45		28°39.8'	28.1	42°07.8'	74.3	31°50.6'	106.0	19°26.2'	147.2	36°51.9'	192.4	30°24.3'	239.2	37°25.5'	314.3
46		29°07.6'	27.5	43°05.2'	74.0	32°47.9'	106.1	19°26.5'	147.6	36°38.8'	193.0	29°33.0'	239.3	36°42.5'	313.7
47	CAPELLA														
48		29°34.9'	26.9	44°02.5'	73.6	33°45.2'	106.1	19°27.29'	147.9	36°25.1'	193.6	28°41.6'	239.5	35°59.1'	313.0
49		30°01.6'	26.3	44°59.7'	73.2	34°42.5'	106.2	19°28°00.8'	148.2	36°10.8'	194.2	27°50.1'	239.7	35°15.3'	312.5
50		30°27.2'	25.7	45°56.8'	72.8	35°39.8'	106.2	19°28°32.1'	148.6	35°55.8'	194.8	26°58.6'	239.8	34°31.1'	311.9
51		30°53.4'	25.0	46°53.7'	72.4	36°37.1'	106.2	19°29°04.3'	149.0	35°40.3'	195.4	26°06.9'	240.0	33°46.5'	311.3
52		31°18.3'	24.4	47°50.5'	72.0	37°34.3'	106.2	19°29°36.3'	149.3	35°24.2'	196.0	25°15.1'	240.1	33°01.5'	310.8
53		31°42.7'	23.7	48°47.2'	71.5	38°31.5'	106.2	19°30°08.3'	149.7	35°07.5'	196.5	24°23.5'	240.2	32°16.1'	310.3
54		32°06.3'	23.1	49°43.7'	71.1	39°28.6'	106.2	19°30°40.3'	150.1	34°50.3'	197.1	23°31.6'	240.3	31°30.4'	309.8
55		32°29.4'	22.5	50°40.2'	70.6	40°25.7'	106.2	19°31°12.3'	150.5	34°32.5'	197.6	22°39.9'	240.3	30°44.4'	309.3
56		32°51.8'	21.7	51°36.3'	70.4	41°22.8'	106.2	19°31°44.3'	150.9	34°14.1'	198.2	21°47.8'	240.6	29°58.5'	308.8
57		33°13.5'	21.0	52°32.3'	69.9	42°19.8'	106.2	19°32°16.3'	151.3	33°55.2'	198.7	20°55.8'	240.6	29°11.4'	308.4
58		33°34.5'	20.3	53°28.0'	69.4	43°16.8'	106.2	19°32°48.3'	151.7	33°38.8'	199.2	20°03.8'	240.7	28°24.4'	307.9
59		33°54.8'	19.5	54°23.6'	68.8	44°13.7'	106.2	19°33°20.3'	152.1	33°22.5'	199.8	19°11.7'	240.8	27°37.3'	307.5
60		34°14.4'	18.8	55°18.9'	67.7	45°10.6'	106.2	19°33°52.3'	152.5	33°06.5'	200.3	18°19.6'	240.9	26°49.8'	307.1
61		34°33.2'	18.0	56°14.0'	67.0	46°07.4'	106.2	19°34°24.3'	152.9	32°50.4'	200.8	17°27.5'	240.9	26°02.1'	306.7
62		34°51.3'	17.3	57°08.8'	66.3	47°04.1'	106.2	19°34°56.3'	153.3	32°34.3'	201.3	16°35.3'	240.9	25°14.1'	306.3
63	*CAPELLA														
64		35°08.7'	16.5	58°03.3'	65.0	48°00.7'	106.2	19°35°28.3'	153.7	32°18.2'	201.8	15°42.3'	241.0	24°26.3'	318.3
65		35°25.2'	15.7	58°58.0'	64.4	48°57.3'	106.2	19°36°00.3'	154.1	32°02.1'	202.3	14°49.3'	241.0	23°33.6'	317.4
66		35°41.0'	14.9	59°52.7'	63.8	49°54.0'	106.2	19°36°32.3'	154.5	31°45.9'	202.8	13°56.3'	241.0	22°40.9'	316.5
67		35°56.0'													

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
180	48°02.6'	52.5	22°38.6'	116.2	32°34.0'	176.3	36°56.6'	218.1	52°22.3'	263.4	45°12.8'	303.0	21°31.2'	353.0
181	48°49.7'	51.7	23°32.1'	116.3	32°37.6'	176.8	36°19.6'	218.6	51°23.0'	263.5	45°22.5'	302.1	21°23.7'	352.5
182	49°36.3'	50.9	24°28.5'	116.4	32°40.6'	177.4	35°42.2'	219.0	50°23.7'	263.5	45°31.7'	301.1	21°15.7'	352.0
183	50°22.3'	50.2	25°19.0'	116.5	32°43.1'	177.9	35°04.5'	219.5	49°24.4'	263.6	45°40.5'	300.2	21°07.1'	351.6
184	51°07.7'	49.1	26°12.4'	116.6	32°45.0'	178.4	34°26.4'	220.9	48°25.1'	263.6	45°48.8'	299.6	20°58.1'	351.1
185	51°52.6'	48.2	27°05.7'	116.7	32°46.4'	179.0	33°47.9'	220.3	47°25.8'	263.6	45°52.7'	298.8	20°48.8'	350.6
186	52°36.7'	47.2	27°58.9'	116.9	32°47.2'	179.5	33°09.2'	220.7	46°26.5'	263.6	45°56.4'	298.1	20°38.6'	350.1
187	53°20.2'	46.2	28°52.1'	117.0	32°47.4'	180.0	32°30.3'	221.1	45°27.2'	263.6	45°51.1'	297.4	20°28.1'	349.6
188	54°02.9'	45.2	29°45.3'	117.1	32°47.1'	180.6	31°50.8'	221.4	44°27.9'	263.6	45°50.8'	296.8	20°17.1'	349.2
189	54°44.8'	44.1	30°38.3'	117.3	32°46.2'	181.1	31°11.2'	221.8	43°28.6'	263.6	45°49.2'	296.1	20°05.7'	348.7
190	55°26.9'	42.9	31°31.3'	117.5	32°44.8'	181.6	30°31.3'	222.1	42°29.3'	263.6	45°48.3'	295.5	19°53.8'	348.3
191	56°06.1'	41.8	32°24.2'	117.7	32°42.8'	182.2	29°51.1'	222.4	41°30.0'	263.6	45°47.3'	294.9	19°41.4'	347.8
192	56°45.4'	40.5	33°17.0'	117.9	32°40.3'	182.7	29°10.7'	222.8	40°30.7'	263.6	45°46.4'	294.1	19°28.6'	347.4
193	57°23.6'	39.2	34°09.7'	118.1	32°37.1'	183.2	28°30.3'	223.1	39°31.1'	263.6	45°45.6'	293.9	19°15.1'	346.9
194	58°00.8'	37.9	35°02.3'	118.3	32°33.5'	183.8	27°49.3'	223.3	38°32.1'	263.6	45°43.9'	293.4	19°01.6'	346.5

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
270	44°21.4'	10.3	27°11.0'	30.9	31°42.1'	74.4	16°15.8'	119.0	31°39.6'	157.2	60°27.6'	223.6	29°33.8'	295.9
271	44°31.5'	09.2	27°41.4'	30.3	32°39.5'	74.1	17°08.0'	119.1	32°02.5'	157.7	59°46.0'	224.8	28°40.0'	295.6
272	44°40.5'	08.1	28°11.3'	29.8	33°36.9'	73.8	18°00.1'	119.1	32°24.9'	158.2	59°03.5'	225.9	27°46.1'	295.3
273	44°48.3'	07.0	28°40.7'	29.3	34°34.1'	73.5	18°52.2'	119.2	32°46.8'	158.7	58°20.3'	226.9	26°52.1'	294.9
274	44°55.1'	05.9	29°09.5'	28.6	35°31.3'	73.2	19°44.3'	119.2	33°08.3'	159.2	57°36.4'	227.8	25°57.9'	294.6
275	45°00.7'	04.9	29°39.5'	28.0	36°28.4'	72.9	20°36.4'	119.3	33°29.7'	159.7	56°51.9'	228.8	25°03.6'	294.3
276	45°05.2'	03.8	30°07.6'	27.4	37°25.4'	72.6	21°28.4'	119.4	33°49.7'	160.2	56°06.7'	229.6	24°09.2'	294.0
277	45°08.5'	02.7	30°32.8'	26.8	38°22.3'	72.2	22°20.3'	119.5	34°09.6'	160.7	55°20.9'	230.5	23°14.7'	293.8
278	45°10.7'	01.6	30°59.0'	26.2	39°19.0'	71.9	23°12.2'	119.6	34°29.1'	161.3	54°34.6'	231.3	22°20.0'	293.5
279	45°11.8'	00.4	31°25.4'	25.5	40°15.7'	71.5	24°04.1'	119.7	34°48.0'	161.8	53°47.9'	232.0	21°25.2'	293.2
280	45°11.6'	359.3	31°50.8'	24.8	41°12.2'	71.1	24°55.9'	119.8	35°06.3'	162.4	53°00.6'	232.7	20°30.3'	293.0
281	45°10.4'	358.2	32°15.5'	24.2	42°08.6'	70.7	25°47.6'	119.9	35°24.1'	162.9	52°12.9'	233.4	19°35.3'	292.7
282	45°08.0'	357.1	32°39.3'	23.5	43°04.9'	70.3	26°39.3'	120.0	35°41.3'	163.5	51°24.8'	234.1	18°40.2'	292.5
283	45°04.1'	356.0	33°03.1'	22.8	44°01.0'	69.7	27°30.9'	120.1	35°58.0'	164.1	50°36.3'	234.7	17°45.1'	292.3
284	44°59.7'	354.9	33°25.9'	22.1	44°56.9'	69.5	28°22.4'	120.2	36°14.0'	164.7	49°47.4'	235.2	16°49.8'	292.0

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
195	58°36.9'	36.5	19°00.6'	74.5	35°54.8'	118.5	32°29.3'	184.3	27°08.2'	223.6	43°59.0'	292.9	18°47.4'	346.0
196	59°11.9'	35.1	19°58.1'	74.3	36°47.2'	118.8	32°24.6'	184.8	26°27.0'	223.9	43°03.9'	292.4	18°32.8'	345.6
197	59°45.5'	33.6	20°55.5'	74.1	37°39.4'	119.0	32°19.3'	185.4	25°45.5'	224.1	42°08.7'	292.0	18°17.7'	345.2
198	60°17.8'	32.0	21°52.8'	73.9	38°31.6'	119.3	32°13.4'	185.9	25°03.9'	224.3	41°13.3'	291.5	18°02.2'	344.8
199	60°48.8'	30.4	22°50.1'	73.7	39°23.5'	119.6	32°07.1'	186.4	24°22.1'	224.6	40°17.7'	291.1	17°46.3'	344.3
200	61°18.3'	28.8	23°47.4'	73.4	40°15.3'	119.9	32°00.0'	187.0	23°40.0'	224.8	39°21.9'	290.7	17°30.0'	343.9
201	61°46.2'	27.0	24°44.5'	73.1	41°07.0'	120.2	31°52.7'	187.6	22°58.1'	225.0	38°26.1'	290.3	17°13.3'	343.5
202	62°12.5'	25.2	25°41.6'	73.0	41°58.5'	120.6	31°44.8'	187.9	22°15.8'	225.2	37°30.0'	290.0	16°56.2'	343.1
203	62°37.3'	23.4	26°38.6'	72.7	42°49.8'	121.0	31°36.3'	188.4	21°33.4'	225.3	36°33.9'	289.6	16°38.7'	342.7
204	62°58.9'	21.5	27°35.6'	72.4	43°40.8'	121.3	31°27.3'	188.9	20°50.9'	225.5	35°37.6'	289.1	16°20.8'	342.4
205	63°20.8'	19.6	28°32.4'	72.2	44°31.7'	121.7	31°17.8'	189.4	20°08.3'	225.7	34°41.2'	288.9	16°02.5'	342.0
206	63°39.8'	17.6	29°29.2'	71.9	45°22.4'	122.1	31°07.8'	189.9	19°25.6'	225.8	33°44.7'	288.6	15°43.9'	341.6
207	63°56.8'	15.6	30°25.9'	71.6	46°12.8'	122.6	30°57.2'	190.4	18°42.7'	225.9	32°48.1'	288.3	15°24.8'	341.2
208	64°11.7'	13.4	31°22.4'	71.3	47°03.0'	123.0	30°46.2'	190.9	17°59.8'	226.1	31°51.4'	288.0	15°05.5'	340.9
209	64°24.5'	11.3	32°18.9'	71.0	47°52.9'	123.5	30°34.7'	191.3	17°16.8'	226.2	30°54.6'	287.7	14°45.5'	340.5

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
285	33°48.0'	21.4	45°52.7'	69.0	29°13.8'	120.6	36°29.5'	165.3	48°58.2'	235.8	62°03.1'	311.6	44°53.9'	353.8
286	34°09.4'	20.6	46°48.4'	68.5	30°05.1'	120.8	36°50.0'	165.8	49°48.0'	236.3	61°18.1'	310.3	44°46.9'	352.8
287	34°30.1'	19.4	47°43.8'	68.0	30°56.3'	121.0	37°12.1'	166.5	50°47.1'	236.8	60°32.1'	309.1	44°38.8'	351.7
288	34°50.0'	18.1	48°39.0'	67.5	31°47.4'	121.2	37°42.1'	167.2	51°46.2'	237.3	59°45.4'	307.9	44°29.6'	350.6
289	35°09.2'	16.9	49°34.0'	67.0	32°42.1'	121.4	38°12.1'	167.9	52°45.3'	237.8	58°57.9'	306.8	44°19.3'	349.5
290	35°27.6'	15.6	50°28.8'	66.4	33°36.9'	121.6	38°42.1'	168.6	53°44.4'	238.3	58°09.8'	305.7	44°08.0'	348.5
291	35°45.3'	14.3	51°23.8'	65.8	34°32.1'	121.9	39°12.1'	169.3	54°43.5'	238.8	57°21.0'	304.7	43°55.5'	347.4
292	36°02.2'	13.0	52°17.6'	65.1	35°27.1'	122.1	39°42.1'	170.0	55°42.6'	239.3	56°31.7'	303.7	43°42.0'	346.4
293	36°18.3'	11.7	53°11.5'	64.5	36°22.1'	122.4	40°12.1'	170.7	56°41.7'	239.8	55°41.8'	302.8	43°27.5'	345.4
294	36°33.5'	10.4	54°05.3'	63.8	37°17.1'	122.7	40°42.1'	171.4	57°40.8'	240.3	54°51.0'	301.9	43°11.1'	344.4
295	36°48.0'	9.1	54°58.7'	63.0	38°12.1'	123.0	41°12.1'	172.1	58°39.9'	240.8	54°00.5'	301.0	42°55.3'	343.4
296	37°01.6'	7.8	55°51.7'	62.3	39°07.1'	123.3	41°42.1'	172.8	59°39.0'	241.3	53°09.2'	300.3	42°37.7'	342.4
297	37°14.3'	6.5	56°44.3'	61.5	39°52.1'	123.6	42°12.1'	173.5	60°38.1'	241.8	52°17.5'	299.5	42°19.2'	341.4
298	37°26.2'	5.2	57°36.5'	60.8	40°47.1'	124.0	42°42.1'	174.2	61°37.2'	242.3	51°25.8'	298.7	42°00.7'	340.5
299	37°37.2'	4.0	58°28.3'	60.1	41°42.1'	124.4	43°12.1'	174.9	62°36.3'	242.8	50°34.1'	298.0	41°39.3'	339.5

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
210	64°35.1'	09.2	33°15.3'	70.7	48°42.5'	124.0	34°32.7'	174.0	30°22.8'	191.8	62°15.0'	242.9	29°57.7'	287.4
211	64°43.5'	07.8	34°11.6'	70.4	49°31.8'	124.6	34°38.7'	174.6	30°10.3'	192.3	61°21.1'	243.3	29°00.7'	287.1
212	64°49.6'	06.3	35°07.7'	70.1	50°20.7'	125.1	34°44.4'	175.1	29°57.4'	192.7	60°28.1'	243.7	28°03.7'	286.9
213	64°53.4'	04.6	36°03.8'	69.7	51°09.3'	125.7	34°48.8'	175.7	29°44.0'	193.2	59°34.2'	244.0	27°06.5'	286.6
214	64°54.9'	03.0	36°59.7'	69.3	51°57.6'	126.4	34°53.0'	176.3	29°30.2'	193.6	58°40.0'	244.5	26°09.3'	286.4
215	64°54.1'	358.1	37°55.4'	68.9	52°45.4'	127.0	34°56.5'	176.9	29°15.9'	194.1	57°45.5'	245.1	25°12.0'	286.1
216	64°50.9'	355.9	38°51.1'	68.5	53°32.8'	127.7	34°59.4'	177.5	29°01.2'	194.5	56°50.0'	246.2	24°14.7'	285.9
217	64°45.5'	353.7	39°46.5'	68.2	54°19.8'	128.5	35°01.9'	178.1	28°46.0'	194.9	55°55.6'	247.1	23°17.3'	285.7
218	64°37.8'	351.5	40°41.8'	67.8	55°06.2'	129.3	35°03.4'	178.7	28°30.4'	195.3	55°00.9'</			

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
180	47°25.7'	51.6	23°04.9'	115.8	33°33.9'	176.3	37°43.7'	218.5	52°28.4'	264.7	56°39.5'	304.3	20°31.6'	353.1
181	48°12.2'	50.8	23°58.5'	115.9	33°37.5'	176.8	37°06.3'	219.0	51°29.1'	264.7	55°50.1'	303.4	20°24.2'	352.6
182	48°58.1'	50.0	24°52.0'	116.0	33°40.6'	177.3	36°28.7'	219.5	50°29.8'	264.7	55°00.1'	302.5	20°16.2'	352.1
183	49°43.4'	49.1	25°45.5'	116.1	33°43.1'	177.9	35°50.6'	219.9	49°30.5'	264.7	54°09.6'	301.6	20°07.8'	351.6
184	50°28.1'	48.2	26°39.0'	116.2	33°45.0'	178.4	35°12.3'	220.3	48°31.2'	264.7	53°18.7'	300.8	19°58.8'	351.1
185	51°12.2'	47.3	27°32.4'	116.3	33°46.4'	179.0	34°33.6'	220.7	47°31.9'	264.7	52°27.6'	300.0	19°49.4'	350.2
186	51°55.6'	46.3	28°28.8'	116.4	33°47.2'	179.5	33°54.5'	221.1	46°32.6'	264.7	51°35.5'	299.9	19°39.5'	350.2
187	52°38.3'	45.3	29°19.1'	116.5	33°47.4'	180.0	33°15.2'	221.5	45°33.3'	264.7	50°40.3'	298.9	19°29.1'	349.7
188	53°20.2'	44.3	30°12.4'	116.6	33°47.1'	180.6	32°35.6'	221.9	44°34.1'	264.7	49°49.5'	298.7	19°18.1'	349.2
189	54°01.3'	43.1	31°05.6'	116.8	33°46.2'	181.1	31°55.8'	222.2	43°34.8'	264.7	48°58.0'	297.2	19°06.9'	348.8
190	54°41.6'	42.0	31°58.8'	116.9	33°44.8'	181.7	31°15.6'	222.5	42°35.5'	264.7	48°04.9'	296.5	18°55.1'	348.3
191	55°21.0'	40.8	32°51.8'	117.1	33°42.8'	182.2	30°35.3'	222.8	41°36.2'	264.7	47°11.4'	295.9	18°42.8'	347.9
192	55°59.4'	39.6	33°40.4'	117.3	33°40.0'	182.7	29°54.7'	223.1	40°36.9'	264.7	46°16.7'	295.4	18°31.0'	347.0
193	56°36.8'	38.3	34°27.7'	117.5	33°37.1'	183.2	29°13.8'	223.4	39°37.7'	264.7	45°23.8'	295.8	18°19.6'	346.4
194	57°13.2'	37.0	35°15.0'	117.7	33°33.4'	183.8	28°32.8'	223.7	38°38.4'	264.7	44°29.7'	294.9	18°08.3'	346.5
195	57°48.4'	35.6	36°01.8'	117.9	33°29.2'	184.4	27°51.5'	224.0	37°35.3'	293.8	17°49.2'	346.1		
196	58°22.5'	34.1	36°48.1'	118.1	33°24.3'	184.9	27°10.1'	224.2	36°24.0'	293.3	17°34.6'	345.7		
197	58°55.3'	32.7	37°30.8'	118.3	33°19.0'	185.4	26°28.5'	224.5	35°11.4'	292.8	17°19.7'	345.3		
198	59°26.7'	31.1	38°08.6'	118.5	33°13.1'	185.9	25°46.7'	224.7	34°00.0'	292.3	17°04.3'	344.8		
199	59°56.8'	29.5	38°42.3'	118.7	33°06.7'	186.5	25°04.7'	224.9	32°49.5'	291.8	16°48.5'	344.4		
200	60°25.4'	27.9	39°10.0'	118.9	32°59.7'	187.0	24°22.6'	225.1	31°39.0'	291.3	16°32.8'	344.0		
201	60°52.5'	26.2	39°42.7'	119.1	32°52.2'	187.5	23°40.4'	225.3	30°30.4'	291.1	16°16.5'	343.6		
202	61°18.0'	24.5	40°09.8'	119.3	32°44.2'	188.0	22°58.0'	225.5	29°21.9'	290.7	15°59.8'	343.2		
203	61°41.8'	22.7	40°36.0'	119.5	32°35.6'	188.5	22°15.5'	225.6	28°03.1'	290.3	15°43.1'	342.8		
204	62°03.9'	20.8	41°01.7'	119.7	32°26.5'	189.0	21°32.9'	225.8	26°44.5'	289.9	15°26.4'	342.4		
205	62°24.1'	18.9	41°27.0'	119.9	32°16.9'	189.5	20°50.1'	225.9	25°25.9'	289.5	15°09.5'	342.1		
206	62°42.5'	17.0	41°51.3'	120.1	32°06.8'	190.0	20°07.3'	226.1	24°07.2'	289.1	14°52.8'	341.7		
207	63°05.9'	15.0	42°14.6'	120.3	31°56.2'	190.5	19°24.4'	226.2	22°42.9'	288.7	14°36.0'	341.3		
208	63°23.3'	13.0	42°36.3'	120.5	31°44.1'	191.0	18°41.3'	226.3	21°23.2'	288.3	14°18.8'	341.0		
209	63°45.6'	10.9	43°01.1'	120.7	31°30.6'	191.5	17°58.2'	226.4	20°03.6'	288.3	13°59.4'	340.6		
210	63°58.8'	8.8	43°25.2'	120.9	31°15.6'	192.0	17°15.1'	226.5	18°41.5'	288.3	13°40.0'	340.2		
211	64°13.9'	6.7	43°50.1'	121.1	31°00.5'	192.5	16°32.4'	226.6	17°24.6'	288.3	13°20.6'	339.8		
212	64°30.9'	4.6	44°15.0'	121.3	30°45.4'	193.0	15°49.3'	226.7	16°13.7'	288.3	13°01.2'	339.4		
213	64°49.5'	2.5	44°40.1'	121.5	30°30.3'	193.5	14°66.2'	226.8	15°02.8'	288.3	12°41.8'	339.0		
214	65°09.6'	0.4	45°05.2'	121.7	30°15.2'	194.0	13°23.7'	226.9	13°51.9'	288.3	12°22.4'	338.6		
215	65°31.1'	358.2	37°33.6'	68.6	53°52.3'	125.3	35°52.8'	176.3	30°28.5'	193.8	59°04.1'	247.1	12°52.5'	286.6
216	63°51.1'	358.2	37°33.6'	68.6	53°52.3'	125.3	35°52.8'	176.3	30°28.5'	193.8	59°04.1'	247.1	12°52.5'	286.6
217	63°51.1'	358.2	37°33.6'	68.6	53°52.3'	125.3	35°52.8'	176.3	30°28.5'	193.8	59°04.1'	247.1	12°52.5'	286.6
218	63°51.1'	358.2	37°33.6'	68.6	53°52.3'	125.3	35°52.8'	176.3	30°28.5'	193.8	59°04.1'	247.1	12°52.5'	286.6
219	63°51.1'	358.2	37°33.6'	68.6	53°52.3'	125.3	35°52.8'	176.3	30°28.5'	193.8	59°04.1'	247.1	12°52.5'	286.6
220	63°51.1'	358.2	37°33.6'	68.6	53°52.3'	125.3	35°52.8'	176.3	30°28.5'	193.8	59°04.1'	247.1	12°52.5'	286.6
221	63°51.1'	358.2	37°33.6'	68.6	53°52.3'	125.3	35°52.8'	176.3	30°28.5'	193.8	59°04.1'	247.1	12°52.5'	286.6
222	63°51.1'	358.2	37°33.6'	68.6	53°52.3'	125.3	35°52.8'	176.3	30°28.5'	193.8	59°04.1'	247.1	12°52.5'	286.6
223	63°51.1'	358.2	37°33.6'	68.6	53°52.3'	125.3	35°52.8'	176.3	30°28.5'	193.8	59°04.1'	247.1	12°52.5'	286.6
224	63°51.1'	358.2	37°33.6'	68.6	53°52.3'	125.3	35°52.8'	176.3	30°28.5'	193.8	59°04.1'	247.1	12°52.5'	286.6
225	65°16.0'	14.0	42°15.7'	122.1	31°05.3'	192.5	16°32.4'	226.6	17°24.6'	288.3	13°40.0'	340.2		
226	65°29.6'	12.5	42°37.8'	122.3	30°50.2'	193.0	15°49.3'	226.7	16°13.7'	288.3	13°20.6'	339.8		
227	65°41.7'	11.0	43°01.8'	122.5	30°35.1'	193.5	14°66.2'	226.8	15°02.8'	288.3	12°41.8'	339.0		
228	65°55.2'	9.3	43°26.7'	122.7	30°20.0'	194.0	13°23.7'	226.9	13°51.9'	288.3	12°22.4'	338.6		
229	66°01.0'	7.6	43°51.6'	122.9	30°04.9'	194.5	12°40.6'	227.0	12°40.6'	288.3	12°03.0'	338.2		
230	66°08.5'	6.2	44°16.5'	123.1	29°49.8'	195.0	11°57.5'	227.1	11°29.9'	288.3	11°43.6'	337.8		
231	66°16.1'	4.6	44°41.4'	123.3	29°34.7'	195.5	11°14.4'	227.2	10°48.8'	288.3	11°24.5'	337.4		
232	66°23.8'	3.0	45°06.3'	123.5	29°19.6'	196.0	10°31.3'	227.3	9°67.7'	288.3	11°05.4'	337.0		
233	66°32.0'	1.4	45°31.2'	123.7	29°04.5'	196.5	9°48.2'	227.4	8°46.6'	288.3	10°46.3'	336.6		
234	66°40.6'	0.1	45°56.1'	123.9	28°89.4'	197.0	8°65.1'	227.5	7°65.5'	288.3	10°27.2'	336.2		
235	66°50.0'	358.2	37°33.6'	68.6	53°52.3'	125.3	35°52.8'	176.3	30°28.5'	193.8	59°04.1'	247.1	12°52.5'	286.6
236	66°50.0'	358.2	37°33.6'	68.6	53°52.3'	125.3	35°52.8'	176.3	30°28.5'	193.8	59°04.1'	247.1	12°52.5'	286.6
237	66°50.0'	358.2	37°33.6'	68.6	53°52.3'	125.3	35°52.8'	176.3	30°28.5'	193.8	59°04.1'	247.1	12°52.5'	286.6
238	66°50.0'	358.2	37°33.6'	68.6	53°52.3'	125.3	35°52.8'	176.3	30°28.5'	193.8	59°04.1'	247.1	12°52.5'	286.6
239	66°50.0'	358.2	37°33.6'	68.6	53°52.3'	125.3	35°52.8'	176.3	30°28.5'	193.8	59°04.1'	247.1	12°52.5'	286.6
240	31°25.2'	35.4	30°06.4'	75.4	52°56.5'	147.8	34°05.7'	191.4	51°50.3'	260.7	53°32.4'	316.1	55°58.0'	350.2
241	31°59.5'	34.8	31°04.0'	75.5	53°27.8'	148.3	33°53.6'	192.0	50°51.6'	260.7	52°50.7'	315.1	55°55.9'	348.7
242	32°32.3'	34.2	32°01.5'	74.9	53°58.2'	149.9	33°41.0'	192.5	49°52.8'	260.7	52°08.2'	314.0	55°52.6'	347.1
243	33°03.6'	34.2	33°25.8'	74.6	54°27.6'	150.9	33°27.9'	193.0	48°54.0'	260.7	51°25.0'	313.0	55°50.2'	346.1
244	33°39.0'	33.8	33°56.3'	74.3	54°56.0'	152.0	33°14.2'	193.5	47°55.2'	260.7	50°50.4'	311.9	55°47.6'	345.6
245	34°11.0'	32.5	34°53.6'	74.0	55°23.4'	153.2	32°59.0'	194.0	46°56.4'	260.7	49°56.6'	311.1	55°44.0'	344.7
246	34°42.3'	31.3	35°50.8'	73.7	55°49.7'	154.3	32°45.3'	194.5	45°57.6'	260.7	48°57.8'	310.3	55°41.2'	343.8
247	35°13.1'	30.7	36°47.9'	73.3	56°14.9'	155.6	32°30.1'	195.0	44°58.7'	260.7	47°58.9'	309.4	55°38.4'	343.3
248	35°43.2'	29.3	37°44.9'	73.0	56°39.9'	156.8	32°14.4'	195.5	43°59.9'	260.7	46°59.9'	308.6	55°35.6'	342.8
249	36°12.7'	29.3	38°41.8'	72.6	57°01.8'	158.1	31°58.8'	196.0	43°03.1'	260.7	46°03.1'	307.8	55°32.8'	342.3
250	36°41.4'	28.9	39°38.5'	72.3	57°23.4'	159.4	31°41.6'	196.5	42°02.2'	260.7	45°05.3'	307.1	55°30.0'	341.8
251	37°09.5'	27.7	40°35.2'	71.9	57°43.6'	160.8	31°24.4'	197.0	41°03.4'	260.7	44°07.1'	306.3	55°27.2'	341.3
252	37°36.8'	26.9	41°31.7'	71.5	58°02.6'	162.1	31°06.9'	197.4	40°04.5'	260.7	43°08.4'	305.5	55°24.4'	340.8
253	38°03.4'	26.1	42°28.1'	71.1	58°20.2'	163.6	30°48.9'	197.8	39°05.7'	260.7	42°09.6'	304.7	55°21.6'	340.3
254	38°29.2'	25.3	43°24.4'	70.7	58°36.3'	165.0	30°30.4'	198.3	38°06.9'	260.7	41°10.8'	303.9	55°18.8'	340.0
255	38°54.3'	24.4	44°20.5'	70.2	58°51.6'	166.4	30°11.5'	198.7	37°08.0'	260.7	40°12.0'	303.7	55°16.0'	339.5
256	39													

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
180	46°48.2'	50.8	23°30.9'	115.5	34°33.8'	176.2	38°30.4'	219.0	52°33.3'	266.0	56°05.2'	305.5	18°32.0'	353.1
181	47°33.9'	50.0	24°24.5'	115.5	34°37.4'	176.8	37°52.8'	219.5	51°34.0'	266.0	55°16.5'	304.6	19°24.7'	352.6
182	48°19.2'	49.1	25°18.1'	115.6	34°40.5'	177.3	37°14.8'	220.0	50°34.7'	265.9	54°27.3'	303.8	19°16.8'	352.1
183	49°03.8'	48.2	26°11.7'	115.6	34°43.0'	177.8	36°36.5'	220.4	49°35.4'	265.9	53°37.6'	302.8	19°08.4'	351.7
184	49°47.8'	47.3	27°05.3'	115.7	34°45.0'	178.4	35°57.7'	221.0	48°36.2'	265.8	52°47.4'	301.9	18°59.6'	351.2
185	50°31.1'	46.4	27°58.8'	115.8	34°46.4'	179.0	35°18.9'	221.8	47°36.9'	265.8	51°56.7'	301.1	18°50.0'	350.7
186	51°13.8'	45.4	28°52.3'	115.9	34°47.2'	179.5	34°39.6'	221.6	46°37.7'	265.7	51°05.7'	300.8	18°40.4'	350.2
187	51°55.7'	44.3	29°45.7'	116.0	34°47.4'	180.0	34°00.0'	221.9	45°38.4'	265.6	50°14.1'	299.8	18°30.0'	349.8
188	52°36.9'	43.4	30°39.1'	116.1	34°47.1'	180.6	33°20.2'	222.3	44°39.3'	265.5	49°22.3'	298.9	18°19.3'	349.3
189	53°17.2'	42.2	31°32.4'	116.2	34°46.2'	181.1	32°40.1'	222.6	43°40.0'	265.5	48°30.1'	298.2	18°08.0'	348.8
190	53°56.7'	41.1	32°25.7'	116.4	34°44.7'	181.7	31°59.7'	222.9	42°40.7'	265.5	47°37.6'	297.5	17°56.3'	348.4
191	54°35.3'	39.9	33°18.9'	116.5	34°42.7'	182.2	31°19.1'	223.3	41°41.5'	265.4	46°44.4'	296.9	17°44.1'	347.9
192	55°12.9'	38.6	34°12.0'	116.7	34°40.0'	182.8	30°38.3'	223.5	40°42.3'	265.3	45°51.1'	296.3	17°31.5'	347.5
193	55°49.4'	37.3	35°05.0'	116.8	34°37.0'	183.3	29°57.3'	223.8	39°43.3'	265.2	44°58.2'	295.7	17°18.4'	347.1
194	56°25.0'	36.0	35°58.0'	117.0	34°33.2'	183.9	29°16.0'	224.1	38°43.9'	265.2	44°04.6'	295.2	17°04.9'	346.6
195	56°59.4'	34.7	18°27.9'	73.8	36°50.9'	117.2	34°29.0'	184.4	28°34.6'	224.3	43°10.7'	294.6	16°50.9'	346.2
196	57°32.6'	33.3	19°21.9'	73.8	37°43.7'	117.4	34°24.1'	184.9	27°53.0'	224.6	42°16.5'	294.1	16°36.5'	345.8
197	58°04.5'	31.8	20°21.9'	73.8	38°36.4'	117.6	34°18.7'	185.5	27°11.2'	224.8	41°22.2'	293.6	16°21.7'	345.3
198	58°35.1'	30.3	21°18.8'	73.1	39°29.0'	117.9	34°12.8'	186.0	26°29.2'	225.0	40°27.7'	293.1	16°06.4'	344.9
199	59°04.4'	28.7	22°15.6'	72.6	40°21.4'	118.2	34°06.3'	186.5	25°47.1'	225.2	39°32.9'	292.7	15°50.7'	344.5
200	59°32.2'	27.1	23°12.3'	72.6	41°13.8'	118.4	33°59.1'	187.1	25°04.9'	225.4	38°38.8'	292.2	15°34.7'	344.1
201	59°58.5'	25.4	24°09.0'	72.3	42°06.0'	118.7	33°51.7'	187.6	24°22.5'	225.6	37°42.9'	291.8	15°18.2'	343.7
202	60°23.2'	23.7	25°05.5'	72.1	42°58.0'	119.0	33°43.6'	188.1	23°40.0'	225.8	36°47.7'	291.4	15°01.3'	343.3
203	60°46.3'	22.0	26°02.0'	71.8	43°49.9'	119.3	33°34.9'	188.6	22°57.3'	225.9	35°52.3'	291.0	14°44.4'	342.9
204	61°07.7'	20.6	26°58.4'	71.5	44°41.7'	119.6	33°25.8'	189.1	22°14.6'	226.1	34°56.7'	290.6	14°26.4'	342.5
205	61°27.3'	18.3	27°54.7'	71.2	45°33.2'	120.0	33°16.1'	189.6	21°31.8'	226.2	33°01.0'	290.2	14°08.3'	342.1
206	61°45.0'	16.4	28°50.9'	70.9	46°24.6'	120.4	33°05.9'	190.1	20°48.8'	226.3	33°05.0'	289.8	13°49.9'	341.8
207	62°00.9'	14.5	29°47.4'	70.5	47°15.8'	120.7	32°55.2'	190.6	20°05.8'	226.3	32°09.3'	289.5	13°31.2'	341.4
208	62°14.8'	12.5	30°42.9'	70.2	48°06.7'	121.2	32°44.0'	191.1	19°22.7'	226.3	31°13.2'	289.1	13°12.0'	341.0
209	62°26.7'	10.6	31°38.8'	69.9	48°57.5'	121.6	32°32.3'	191.6	18°39.5'	226.3	30°17.0'	288.8	12°52.5'	340.7
210	62°36.5'	8.5	32°34.5'	69.5	49°47.9'	122.1	32°20.2'	192.1	17°56.4'	226.4	29°20.7'	288.5	12°32.0'	340.4
211	62°44.3'	6.5	33°30.1'	69.1	50°38.1'	122.6	32°07.8'	192.6	17°14.4'	226.4	28°23.4'	288.2	12°11.4'	340.1
212	62°50.0'	4.4	34°25.5'	68.8	51°28.1'	123.1	31°54.4'	193.0	16°31.7'	226.4	27°27.8'	287.9	11°50.7'	339.8
213	62°53.5'	2.2	35°20.8'	68.4	52°17.7'	123.7	31°41.8'	193.5	15°48.6'	226.4	26°42.9'	287.6	11°29.0'	339.5
214	62°54.9'	0.0	36°16.0'	68.0	53°07.0'	124.2	31°29.0'	193.9	14°65.2'	226.4	25°58.6'	287.3	11°07.3'	339.2
215	62°54.1'	358.2	37°11.0'	67.5	53°55.9'	124.9	31°16.2'	194.4	13°81.8'	226.4	25°14.3'	287.0	10°45.6'	338.9
216	62°51.2'	356.2	38°05.8'	67.1	54°44.4'	125.6	31°03.3'	194.8	12°97.3'	226.4	24°29.9'	286.7	10°23.9'	338.6
217	62°46.2'	354.1	38°59.0'	66.7	55°32.6'	126.2	30°50.7'	195.2	12°12.9'	226.4	23°45.4'	286.4	10°02.2'	338.3
218	62°39.0'	352.1	39°54.9'	66.2	56°20.3'	127.0	30°37.0'	195.7	11°28.4'	226.4	23°01.1'	286.1	9°40.5'	338.0
219	62°29.8'	350.0	40°49.2'	65.7	57°07.5'	127.7	30°23.4'	196.2	10°43.9'	226.4	22°16.6'	285.8	9°18.8'	337.7
220	62°18.5'	348.0	41°43.2'	65.2	57°54.3'	128.3	30°09.8'	196.7	9°59.3'	226.4	21°31.9'	285.5	8°97.1'	337.4
221	62°05.0'	346.1	42°37.0'	64.7	58°40.5'	129.4	30°00.0'	197.2	9°14.6'	226.4	20°47.2'	285.2	8°75.4'	337.1
222	61°49.9'	344.1	43°30.6'	64.2	59°26.1	130.3	30°00.0'	180.5	29°18.7'	197.3	31°51.6'	251.1	17°58.3'	285.3
223	61°32.7'	342.4	44°24.0'	63.6	60°11.0'	131.3	30°02.6'	181.7	29°00.8'	197.7	51°03.1'	251.7	17°00.0'	285.1
224	61°13.6'	340.4	45°17.1'	63.0	60°55.3'	132.3	30°00.6'	182.3	28°42.6'	198.0	50°06.7'	252.0	16°03.5'	284.9
225	54°17.7'	13.7	21°13.3'	42.8	15°23.6'	78.4	44°25.1'	135.7	36°57.9'	182.9	66°40.3'	260.1	16°52.8'	338.6
226	54°31.0'	12.2	21°53.6'	42.4	16°21.8'	78.2	45°06.4'	136.2	36°54.6'	183.5	65°41.7'	260.3	16°30.2'	338.8
227	54°42.8'	10.7	22°33.3'	42.0	17°19.9'	78.0	45°47.3'	136.8	36°50.6'	184.1	64°43.1'	260.6	16°05.9'	339.1
228	54°53.0'	9.2	23°13.0'	41.8	18°18.0'	77.8	46°27.1'	137.4	36°46.1'	184.7	63°44.5'	260.7	15°39.0'	339.4
229	55°01.7'	7.6	23°52.2'	41.0	19°16.1'	77.4	47°07.6'	138.1	36°40.9'	185.3	62°45.9'	260.9	15°12.7'	339.8
230	55°08.8'	6.1	24°31.1'	40.6	20°14.1'	77.4	47°47.0'	138.8	36°35.1'	185.9	61°47.2'	261.1	14°38.9'	340.1
231	55°14.3'	4.5	25°09.5'	40.0	21°12.0'	77.1	48°25.9'	139.5	36°28.7'	186.5	60°48.5'	261.2	13°58.3'	340.2
232	55°18.2'	3.0	25°47.6'	39.2	22°09.9'	76.9	49°04.3'	140.2	36°21.7'	187.1	59°49.9'	261.3	13°27.2'	340.5
233	55°20.4'	1.4	26°25.2'	39.1	23°07.8'	76.7	49°42.0'	140.9	36°14.1'	187.6	58°51.0'	261.4	12°57.0'	340.7
234	55°21.1'	359.8	27°02.4'	38.5	24°05.3'	76.4	50°19.1'	141.7	36°05.9'	188.2	57°52.2'	261.5	12°26.2'	340.9
235	55°20.1'	358.2	27°39.2'	38.0	25°03.6'	76.2	50°55.6'	142.5	35°57.1'	188.8	56°53.5'	261.6	11°55.6'	341.0
236	55°14.4'	356.7	28°15.6'	37.4	26°01.0'	75.9	51°31.4'	143.4	35°47.7'	189.4	55°54.7'	261.7	11°25.3'	341.2
237	55°10.2'	355.1	28°51.5'	36.9	26°58.6'	75.6	52°06.4'	144.3	35°37.8'	189.9	54°55.9'	261.8	10°54.6'	341.3
238	55°03.3'	353.6	29°29.6'	36.2	27°56.1'	75.4	52°45.8'	145.2	35°27.3'	190.5	53°57.1'	261.8	10°24.1'	341.5
239	54°59.8'	352.0	30°01.8'	35.7	28°53.6'	75.1	53°14.4'	146.1	35°16.2'	191.0	52°58.2'	261.9	9°53.2'	341.8
240	30°36.2'	51.3	12°51.0'	74.9	53°47.1'	147.1	13°05.0'	191.6	51°59.4'	261.9	52°48.8'	317.0	54°50.8'	340.0
241	31°10.1'	34.5	13°00.4'	74.5	54°18.9'	148.1	13°45.2'	192.1	51°00.6'	262.0	52°07.0'	315.9	54°44.0'	350.5
242	31°43.5'	33.8	13°14.5'	74.3	54°49.9'	149.1	14°24.9'	192.7	50°01.8'	262.0	51°26.2'	314.9	54°28.1'	347.5
243	32°16.2'	33.2	13°28.2'	74.0	55°19.9'	150.4	15°04.6'	193.3	49°02.9'	262.0	50°43.7'	313.9	54°14.3'	344.0
244	32°48.4'	32.5	13°41.9'	73.6	55°48.9'	151.4	15°43.2'	193.7	48°04.1'	262.0	50°00.0'	312.9	53°59.3'	346.5
245	33°20.1'	31.8	13°54.7'	73.3	56°16.8'	152.3	16°21.9'	194.2	47°05.2'	262.0	49°16.8'	312.0	53°43.7'	343.1
246	33°51.1'	31.1	14°07.5'	73.0	56°43.7'	153.3	17°00.9'	194.7	46°06.0'	262.0	48°32.3'	311.1	53°24.7'	340.7
247	34°21.4'	30.4	14°20.3'	72.6	57°09.4'	154.9	17°39.8'	195.2	45°07.5'	262.0	47°47.3'	310.3	53°05.3'	340.3
248	34°51.2'	29.7	14°33.1'	72.2	57°34.0'	156.2	18°19.2'	195.7	44°08.7'	262.0	47°00.1'	309.4	52°44.6'	338.9
249	35°20.2'	28.9	14°45.9'	71.9	57°57.4'	157.3	19°00.0'	196.2	43°09.9'	262.0	46°15.5'	308.6	52°22.5'	337.6
250	35°48.6'	28.2	14°58.7'	71.5	58°19.4'	158.9	19°40.8'	196.6	42°11.0'	262.0	45°28.8'	307.9	51°59.2'	336.2
251	36°16.3'	27.4	15°11.5'	71.1	58°40.2'	160.2	20°21.8'	197.1	41°12.2'	262.0	44°44.1'	307.1	51°34.7'	335.0
252	36°43.3'	26.6	15°24.3'	70.7	58°									

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
180	46°09.0'	50.0	23°56.5'	115.1	35°33.6'	176.2	39°16.8'	219.6	52°36.7'	267.3	55°29.8'	306.7	18°32.5'	353.2
181	46°55.0'	49.2	24°50.1'	115.1	35°37.3'	176.7	38°38.9'	220.0	51°37.5'	267.3	55°42.0'	305.7	18°25.2'	352.7
182	47°39.6'	48.3	25°43.8'	115.1	35°40.4'	177.3	38°00.7'	220.4	50°38.3'	267.2	53°53.6'	304.3	18°17.1'	352.2
183	48°23.5'	47.2	26°37.5'	115.2	35°43.0'	177.8	37°22.0'	220.9	49°39.1'	267.1	53°04.7'	303.9	18°09.1'	351.7
184	49°06.8'	46.5	27°31.1'	115.2	35°45.4'	178.4	36°43.3'	221.3	48°40.0'	267.0	52°15.5'	303.0	18°00.0'	351.2
185	49°49.4'	45.8	28°24.7'	115.3	35°46.3'	178.9	36°03.9'	221.7	47°40.8'	266.9	51°25.3'	302.2	17°51.0'	350.8
186	50°31.3'	44.5	29°18.2'	115.4	35°47.2'	179.5	35°24.3'	222.0	46°41.6'	266.8	50°34.9'	301.4	17°41.2'	350.3
187	51°12.5'	43.3	30°11.7'	115.5	35°47.4'	180.3	34°44.5'	222.4	45°42.5'	266.7	49°44.1'	300.1	17°31.0'	349.8
188	51°52.9'	42.4	31°05.2'	115.6	35°47.1'	181.0	34°04.0'	222.7	44°43.3'	266.6	48°52.9'	299.1	17°20.3'	349.4
189	52°32.5'	41.3	31°58.6'	115.7	35°46.2'	181.1	33°24.1'	223.1	43°44.1'	266.5	48°01.3'	299.2	17°09.2'	348.9
190	53°11.2'	40.2	32°52.0'	115.8	35°44.7'	181.7	32°43.3'	223.4	42°45.0'	266.4	47°09.4'	298.5	16°57.5'	348.5
191	53°48.9'	39.0	33°45.4'	115.9	35°42.7'	182.3	32°02.7'	223.7	41°45.9'	266.3	46°17.2'	297.8	16°45.4'	348.0
192	54°25.7'	37.8	34°38.6'	116.1	35°40.0'	182.8	31°21.6'	224.0	40°46.7'	266.2	45°24.6'	297.1	16°33.9'	347.6
193	55°01.5'	36.5	35°31.8'	116.2	35°36.9'	183.3	30°40.4'	224.2	39°47.2'	266.1	44°31.8'	296.6	16°19.9'	347.1
194	55°36.2'	35.2	36°25.0'	116.4	35°33.1'	183.9	29°59.0'	224.5	38°48.5'	266.0	43°38.6'	296.0	16°06.5'	346.7
195	56°09.8'	33.8	37°18.0'	116.5	35°28.8'	184.5	29°17.4'	224.7	37°45.4'	265.9	42°45.3'	295.5	15°52.6'	346.3
196	56°42.1'	32.4	38°10.7'	116.7	35°23.9'	185.0	28°35.6'	225.0	36°41.5'	265.8	41°51.6'	294.5	15°38.3'	345.8
197	57°13.3'	31.0	39°02.0'	116.9	35°18.5'	185.5	27°53.6'	225.2	35°37.5'	265.7	40°57.8'	294.4	15°23.6'	345.4
198	57°43.1'	29.5	39°51.1'	117.1	35°12.5'	186.1	27°11.5'	225.4	34°33.4'	265.6	40°03.7'	293.9	15°08.5'	345.0
199	58°11.6'	27.9	40°39.7'	117.3	35°05.9'	186.6	26°29.3'	225.6	33°29.3'	265.5	39°09.0'	293.4	14°52.9'	344.6
200	58°38.6'	26.4	41°27.5'	117.4	34°58.8'	187.1	25°46.9'	225.8	32°25.2'	265.4	38°15.0'	292.9	14°36.9'	344.2
201	59°04.0'	24.7	42°15.0'	117.6	34°51.5'	187.7	25°04.0'	226.0	31°21.0'	265.3	37°20.3'	292.4	14°21.0'	343.8
202	59°28.2'	23.0	43°02.6'	117.8	34°43.0'	188.2	24°21.7'	226.1	30°16.5'	265.2	36°25.5'	292.1	14°03.8'	343.4
203	59°50.5'	21.3	43°50.3'	118.1	34°34.3'	188.7	23°39.9'	226.2	29°12.4'	265.1	35°30.6'	291.6	13°46.7'	343.0
204	60°11.2'	19.6	44°37.9'	118.3	34°25.0'	189.2	22°56.1'	226.3	28°08.4'	265.0	34°35.3'	291.1	13°29.7'	342.6
205	60°30.2'	17.8	45°25.1'	118.5	34°15.3'	189.7	22°13.2'	226.4	26°53.4'	264.9	33°38.1'	290.6	13°11.2'	342.2
206	60°47.4'	15.9	46°12.6'	118.7	34°06.5'	189.4	21°30.0'	226.5	25°40.4'	264.8	32°44.5'	290.5	12°52.5'	341.8
207	61°02.7'	14.1	46°59.7'	118.9	33°57.4'	190.2	20°47.0'	226.6	24°27.3'	264.7	31°48.9'	290.4	12°34.3'	341.5
208	61°16.2'	12.2	47°46.2'	119.1	33°48.2'	190.9	19°24.0'	226.7	23°14.8'	264.6	30°44.9'	290.3	12°15.3'	341.1
209	61°27.7'	10.2	48°32.7'	119.3	33°38.1'	191.7	18°01.6'	226.8	22°02.9'	264.5	29°39.5'	290.2	11°55.9'	340.8
210	61°37.2'	8.3	49°19.4'	121.1	33°27.1'	173.7	16°38.8'	192.2	20°39.5'	248.3	29°01.4'	289.0		
211	61°44.7'	6.3	50°06.1'	121.5	33°15.7'	174.3	15°26.8'	192.7	19°26.4'	248.2	28°05.3'	288.7		
212	61°50.2'	4.3	50°53.0'	121.9	33°03.4'	174.9	14°14.8'	193.1	18°13.9'	248.1	27°09.1'	288.4		
213	61°53.6'	2.3	51°39.8'	122.3	32°51.1'	175.5	13°02.9'	193.6	17°01.6'	248.0	26°12.8'	288.1		
214	61°54.9'	0.3	52°26.5'	122.7	32°38.8'	176.1	11°51.0'	194.1	15°49.4'	247.9	25°16.5'	287.8		
215	61°54.2'	358.3	36°47.7'	66.8	54°29.7'	123.7	37°56.2'	176.8	32°10.3'	194.4	58°58.1'	250.6	62°42.0'	287.5
216	61°51.4'	356.3	37°42.1'	66.5	55°18.8'	124.3	37°59.2'	177.4	31°55.2'	195.0	57°56.0'	251.1	62°33.2'	287.2
217	61°46.5'	354.3	38°36.3'	66.5	56°07.0'	125.0	38°01.1'	191.7	31°39.7'	195.4	56°58.9'	251.2	62°26.7'	286.9
218	61°39.6'	352.3	39°30.3'	65.4	56°55.9'	125.7	38°03.4'	178.6	31°23.8'	195.8	56°03.7'	251.7	62°13.0'	286.6
219	61°30.7'	350.4	40°24.1'	64.9	57°43.7'	126.3	38°04.5'	179.2	31°07.4'	196.2	55°07.4'	252.0	62°03.3'	286.4
220	61°17.2'	348.4	41°17.7'	64.4	58°31.2'	127.0	38°05.1'	180.0	30°50.7'	196.6	54°01.1'	252.1	61°53.9'	286.1
221	61°06.9'	346.5	42°11.1'	63.9	59°18.0'	128.1	38°04.0'	181.0	30°33.5'	197.1	53°14.5'	252.5	61°38.9'	285.9
222	60°52.1'	344.6	43°04.1'	63.3	60°04.4'	129.0	38°04.0'	180.3	30°15.9'	197.4	52°18.0'	252.7	61°24.3'	285.6
223	60°35.4'	342.8	43°56.9'	62.7	60°50.1'	130.0	38°02.6'	181.7	29°58.0'	197.8	51°12.1'	252.9	61°06.4'	285.4
224	60°17.0'	341.0	44°49.4'	62.1	61°35.2'	131.0	38°00.5'	182.3	29°39.6'	198.2	50°04.7'	253.1	60°48.0'	285.1
225	59°19.4'	13.4	45°02'29.3"	42.6	15°11.4'	78.1	14°50'07.8"	135.0	37°57.8'	182.9	66°49.4'	262.4	59°56.8'	339.2
226	59°32.3'	11.9	45°21'09.2"	42.1	16°09.4'	77.9	14°54'49.5"	135.5	37°54.5'	183.5	65°50.7'	262.5	59°59.34.9"	337.5
227	59°53.8'	10.4	45°41'28.8"	41.7	17°07.3'	77.4	14°59'30.8"	136.1	37°50.5'	184.2	64°51.9'	262.6	59°59.11.3"	335.8
228	59°53.8'	8.9	45°22'28.0"	41.8	18°05.2'	77.7	14°57'11.6"	136.7	37°45.9'	184.8	63°53.1'	262.7	59°56.46.3"	334.1
229	54°02.2'	40.7	43'203.6"	40.8	19'03.0"	77.2	14°52'02.0"	137.4	37°40.6'	185.4	62'54.2"	262.8	59'51.9.7"	332.5
230	54°09.1'	05.9	43'205.4"	40.3	20'00.8"	77.0	14'48'31.9"	138.0	37°34.8'	186.0	61'55.5"	262.9	59'57.51.1"	331.0
231	54°14.5'	04.4	42'23.5"	39.8	20'58.5"	76.8	14'49'11.3"	138.7	37°28.3'	186.6	60'56.7"	263.0	59'57'22.2"	329.5
232	54°18.3'	02.9	25'56.2"	39.3	21'56.2"	76.4	15'00'01.1"	139.4	37°21.3'	187.2	59'57.9"	263.0	59'56.51.4"	328.0
233	54°20.5'	01.5	26'38.5"	38.8	22'53.8"	76.0	15'02'28.3"	140.2	37°13.6'	187.7	58'59.1"	263.1	59'56'19.4"	326.6
234	54°21.1'	359.8	26'15.4"	38.2	23'51.3"	76.0	15'01'06.0"	141.0	37°05.3'	188.3	58'00.2'	263.1	59'55'46.1"	325.2
235	54°20.1'	358.3	26'51.9"	37.7	24'48.8"	75.7	15'01'43.0"	141.8	36'56.4'	188.9	57'01.4'	263.2	59'55'11.3"	323.9
236	54°17.5'	356.8	27'27.9"	37.1	25'46.2"	75.2	15'02'19.3"	142.6	36'46.9'	189.5	56'02.6'	263.2	59'54'36.3"	322.6
237	54°13.4'	355.2	28'03.4"	36.5	26'43.3"	75.2	15'02'55.9"	143.5	36'36.9'	190.1	55'03.0'	263.2	59'53'59.3"	321.4
238	54°07.7'	353.7	28'38.4"	36.2	27'40.7"	74.9	15'03'29.9"	144.3	36'26.3'	190.6	54'04.9'	263.2	59'53'22.8"	320.2
239	54°00.4'	352.2	29'13.0"	35.4	28'37.9"	74.6	15'04'04.0"	145.3	36'15.0'	191.2	53'06.0'	263.2	59'52'43.9"	319.0
240	52°47.0'	34.7	29'36.0"	74.3	35°47.2'	146.3	36°03.3'	191.7	52°07.2'	263.2	52°04.6'	305.1	48°52.8'	330.7
241	30°20.5'	34.0	33°02.0"	70.5	55°09.7'	147.3	35°51.0'	192.3	51°08.3'	263.2	51°24.4'	316.8	48°53.4'	340.2
242	30°53.5'	33.5	31°28.9"	73.7	55°41.2'	148.4	35°38.1'	192.8	50°09.5'	263.2	50°43.5'	315.8	48°53'29.5"	347.8
243	31°25.9'	32.8	32'25.8"	73.3	56°11.8'	149.5	35°24.7'	193.3	49°10.7'	263.2	50'01.8'	314.8	48°53'16.2"	346.3
244	31°57.7'	32.3	33'22.5"	73.0	56°41.3'	150.3	35°10.8'	193.9	48°11.8'	263.1	49'19.4'	313.8	48°53'01.1"	344.9
245	32'29.6'	31.8	34'19.1"	72.5	57'09.9'	151.8	34°56.3'	194.4	47'13.0'	263.1	48'36.3'	312.9	48'52'52.7"	343.5
246	32'59.0'	30.5	35'15.6"	72.2	57'37.3'	153.0	34'41.3'	194.9	46'14.2'	263.1	47'52.5'	312.0	48'52'27.7"	342.1
247	33'29.6'	30.1	36'12.0"	71.9	58'03.6'	154.3	34'25.9'	195.4	45'15.3'	263.0	47'08.1'	311.1	48'52'08.7"	340.7
248	33'58.9'	29.3	37'08.3"	71.5	58'28.8'	155.6	34'09.9'	196.9	44'16.5'	263.0	46'23.7'	310.3	48'51'48.5"	339.4
249	34'27.6'	28.6	38'04.4"	71.1	58'52.7'	156.9	33'53.5'	196.4	43'17.7'	263.0	45'37.1'	309.4	48'51'27.0"	338.0
250	34'55.6'	27.8	39'00.0"	70.7	59'15.3'	158.3	33'36.5'	196.8	42'18.9'	262.9	44'51.7'	308.7	48'51'04.2"	336.7
251	35'22.9'	27.0	39'56.3"	70.3	59'36.6'	159.7	33'19.1'	197.3	41'20.1'	262.9	44'05.1'	307.		

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn						
0	50°44.0'	03.3	44°04.2'	42.6	16°32.6'	69.3	12°17.2'	96.3	39°10.6'	163.0	65°48.0'	214.1	50°58.2'	299.8	90	44°06.2'	33.5	24°17.5'	72.0	37°13.6'	138.1	47°00.5'	174.6	39°54.4'	225.1	56°27.1'	322.1	33°12.1'	351.3
1	50°46.6'	01.9	44°43.9'	41.8	17°27.8'	69.0	13°15.9'	96.1	39°27.5'	163.6	65°14.2'	215.7	50°06.7'	299.0	91	44°38.4'	32.5	25°13.7'	71.7	37°52.9'	138.5	47°05.6'	175.5	39°12.5'	225.4	55°50.3'	320.8	33°02.8'	350.5
2	50°47.8'	00.5	45°22.9'	40.8	18°22.9'	68.7	14°14.7'	96.0	39°43.8'	164.3	64°39.1'	217.2	49°14.9'	298.3	92	45°09.7'	31.5	26°09.7'	71.4	38°31.9'	138.9	47°09.9'	176.3	38°30.3'	226.5	55°12.5'	319.5	32°52.6'	349.7
3	50°47.6'	359.1	46°01.2'	39.9	19°17.9'	68.1	15°23.4'	96.3	39°59.6'	164.9	64°02.8'	218.7	48°48.2'	297.6	93	45°40.1'	30.4	27°05.7'	71.0	39°10.6'	139.3	47°13.1'	177.2	37°47.9'	226.1	54°33.6'	318.3	32°41.1'	348.9
4	50°46.6'	357.7	46°38.7'	38.9	20°12.7'	68.1	16°12.2'	95.7	40°14.7'	165.5	63°25.3'	220.0	47°30.1'	296.9	94	46°09.5'	29.4	28°01.5'	70.7	39°49.0'	139.8	47°15.5'	178.1	37°05.1'	226.5	53°53.8'	317.3	32°29.9'	348.1
5	50°43.0'	356.4	47°15.4'	37.9	21°07.5'	67.8	17°11.0'	95.4	40°29.1'	166.1	62°46.8'	221.3	46°37.1'	295.6	95	46°38.1'	28.3	28°57.2'	70.4	40°27.0'	140.2	47°17.1'	179.0	36°22.1'	226.8	53°13.2'	316.0	32°17.1'	347.4
6	50°38.5'	356.0	47°51.3'	36.9	22°02.1'	67.5	18°09.8'	95.8	40°43.0'	166.8	62°07.3'	222.6	45°44.1'	296.3	96	47°05.6'	27.2	29°52.8'	70.0	41°04.6'	140.7	47°17.5'	179.9	35°39.0'	227.1	52°31.7'	314.9	32°04.1'	346.6
7	50°32.6'	353.6	48°26.4'	35.8	23°56.6'	67.1	19°08.7'	95.3	40°56.1'	167.4	61°26.9'	223.7	44°50.0'	295.0	97	47°32.1'	26.1	30°48.3'	69.6	41°41.8'	141.2	47°17.1'	180.8	34°55.6'	227.4	51°49.4'	313.8	31°50.0'	345.8
8	50°25.3'	353.6	49°00.5'	34.8	25°25.6'	66.8	20°07.5'	95.5	41°08.7'	168.1	60°45.6'	224.8	43°57.1'	294.5	98	47°57.5'	24.9	31°43.7'	68.0	42°18.6'	141.7	47°15.9'	181.3	33°42.1'	226.5	51°06.4'	312.8	31°35.1'	345.0
9	50°16.7'	350.9	49°33.7'	33.6	26°45.3'	66.4	21°06.4'	95.0	41°20.5'	168.8	60°03.6'	225.9	43°03.2'	293.9	99	48°21.9'	23.7	32°38.8'	68.8	42°55.0'	142.3	47°13.7'	182.6	33°28.2'	228.0	50°22.7'	311.8	31°19.5'	344.3
10	50°06.7'	349.6	50°06.0'	32.5	28°39.3'	66.1	22°05.3'	94.8	41°31.6'	169.5	59°20.8'	226.9	42°09.1'	293.4	100	48°45.1'	22.5	33°33.8'	68.4	43°31.0'	142.8	47°10.6'	183.5	32°44.2'	228.2	49°38.4'	310.8	31°03.1'	343.5
11	49°55.3'	348.2	50°37.3'	31.3	30°26.3'	65.7	23°04.1'	94.1	41°42.1'	170.1	58°37.3'	227.8	41°14.7'	292.9	101	49°07.2'	21.3	34°48.3'	68.0	44°06.4'	143.4	47°06.5'	184.4	32°00.1'	228.5	48°53.4'	309.8	30°46.0'	342.8
12	49°42.6'	346.9	51°07.3'	30.1	32°27.2'	65.2	24°03.0'	94.4	41°51.9'	170.8	57°53.3'	228.7	40°20.2'	292.4	102	49°28.1'	20.1	35°23.4'	67.6	44°41.4'	144.0	47°01.6'	185.2	31°15.8'	228.7	48°07.7'	309.1	30°28.1'	342.1
13	49°28.6'	345.6	51°36.4'	28.8	34°20.7'	64.9	25°01.0'	94.6	42°00.9'	171.5	57°08.6'	229.9	39°25.4'	291.9	103	49°47.7'	18.8	36°17.9'	67.1	45°15.9'	144.6	46°55.7'	186.1	30°31.3'	228.9	47°21.6'	308.2	30°09.6'	341.4
14	49°13.3'	344.4	52°04.3'	27.6	36°14.1'	64.5	26°00.9'	94.3	42°09.2'	172.3	56°23.4'	230.3	38°30.5'	291.4	104	50°06.2'	17.5	37°12.2'	66.7	45°49.8'	145.3	46°49.0'	187.0	29°46.7'	229.1	46°34.9'	307.4	29°50.4'	340.6
15	52°31.1'	26.3	30°07.3'	64.1	126°59.8'	94.1	142°16.8'	173.0	55°37.6'	231.1	37°35.4'	290.9	48°56.7'	343.1	105	50°23.3'	16.2	38°06.4'	66.2	46°23.2'	145.9	46°41.3'	187.9	64°08.8'	271.9	45°47.7'	306.6	29°30.4'	339.9
16	52°56.6'	24.9	31°00.4'	63.7	127°58.7'	94.0	142°27.8'	173.7	54°51.4'	231.8	36°40.4'	290.5	48°38.9'	341.8	106	50°39.2'	14.9	39°00.4'	65.7	46°56.0'	146.6	46°32.8'	188.7	63°09.7'	271.1	45°50.0'	305.8	29°09.8'	338.9
17	53°20.8'	23.5	31°53.3'	63.2	128°57.7'	93.9	142°29.8'	174.4	54°04.8'	232.5	35°44.7'	290.1	48°19.9'	340.6	107	50°53.7'	13.6	39°54.1'	65.2	47°28.2'	147.4	46°23.4'	189.6	62°10.6'	271.4	44°11.9'	305.1	28°48.6'	338.6
18	53°43.8'	22.1	32°45.9'	62.8	129°56.6'	93.7	142°35.2'	175.1	53°17.7'	233.1	34°49.1'	289.7	47°59.7'	339.4	108	51°06.9'	12.2	40°47.6'	64.7	47°59.7'	148.1	46°13.2'	190.4	61°11.6'	271.1	42°33.3'	304.4	28°26.7'	337.9
19	54°05.4'	20.7	33°38.2'	62.3	130°55.6'	93.6	142°39.9'	175.9	52°30.3'	233.7	33°53.4'	289.8	47°38.1'	338.2	109	51°18.7'	10.8	41°40.9'	64.1	48°30.6'	148.9	46°02.1'	191.2	60°20.0'	270.1	42°48.3'	303.7	28°04.1'	337.2
20	54°25.6'	19.2	34°30.6'	61.8	131°54.6'	93.4	142°43.8'	176.6	51°42.5'	234.3	32°57.5'	289.4	47°15.9'	337.1	110	51°29.1'	9.9	42°23.9'	63.5	49°00.8'	149.7	45°50.2'	192.1	59°13.3'	270.8	41°45.0'	303.0	27°40.1'	336.6
21	54°44.4'	17.8	35°22.5'	61.3	132°53.6'	93.2	142°46.9'	177.3	50°54.4'	234.8	32°01.6'	288.9	46°52.3'	335.9	111	51°38.0'	8.0	43°26.7'	63.0	49°30.3'	150.5	45°37.4'	192.9	58°14.3'	270.6	40°45.5'	302.7	27°17.1'	335.9
22	55°01.6'	16.2	36°14.2'	60.8	133°52.6'	93.2	142°49.3'	178.1	50°05.9'	235.3	31°05.5'	288.2	46°27.6'	334.8	112	51°45.6'	6.6	44°19.2'	62.3	49°59.1'	151.3	45°23.9'	193.7	57°15.2'	270.4	40°05.2'	301.8	26°52.7'	335.3
23	55°17.4'	14.7	37°05.7'	60.3	134°51.6'	93.1	142°50.9'	178.8	49°17.2'	235.8	30°09.3'	287.8	46°01.9'	333.7	113	51°51.6'	5.0	45°11.4'	61.7	50°27.0'	152.2	45°09.5'	194.5	56°16.1'	270.2	39°14.8'	301.2	26°27.2'	334.7
24	55°31.6'	13.2	37°56.8'	59.3	135°50.6'	92.9	142°51.7'	179.5	48°28.2'	236.3	29°13.3'	287.4	45°35.2'	332.6	114	51°56.3'	3.8	46°03.2'	61.1	50°54.2'	153.1	44°54.0'	195.2	55°25.1'	270.3	38°24.1'	300.6	26°02.2'	334.1
25	55°44.2'	11.6	38°47.7'	59.1	136°49.6'	92.8	142°51.8'	180.3	47°38.9'	236.7	28°16.6'	287.1	45°07.6'	331.6	115	51°59.4'	2.2	46°54.8'	60.4	51°20.5'	154.0	44°38.4'	196.0	54°18.0'	269.9	37°33.1'	300.0	25°36.1'	333.5
26	55°55.3'	10.0	39°38.3'	58.6	137°48.6'	92.4	142°51.1'	181.0	46°49.4'	237.1	27°20.1'	286.8	44°39.9'	330.5	116	52°01.3'	0.9	47°46.8'	59.7	51°46.0'	154.9	44°21.7'	196.8	53°18.9'	269.7	36°41.9'	299.5	25°09.4'	332.9
27	56°04.7'	8.8	40°28.5'	57.9	138°47.6'	92.6	142°50.9'	181.8	45°59.7'	237.5	26°23.5'	286.5	44°09.4'	329.8	117	52°01.3'	359.5	48°36.8'	58.9	52°10.5'	155.9	44°04.3'	197.5	52°19.8'	269.5	35°50.2'	299.0	24°42.2'	332.3
28	56°12.5'	06.7	41°18.4'	57.3	139°46.7'	92.4	142°47.5'	182.5	45°09.8'	237.8	25°26.8'	286.2	43°39.0'	328.5	118	52°00.0'	358.0	49°27.2'	58.2	52°34.2'	156.9	43°46.2'	198.2	51°20.7'	269.4	34°58.4'	298.4	24°14.5'	331.7
29	56°18.5'	05.1	42°08.0'	56.7	140°45.7'	92.2	142°44.5'	183.2	44°19.7'	238.2	24°30.0'	285.9	43°07.7'	327.6	119	51°57.3'	356.6	50°17.2'	57.4	52°56.9'	157.9	43°27.4'	199.0	50°21.6'	269.2	34°06.9'	293.6	23°46.2'	331.2
30	18°35.5'	33.9	28°39.8'	75.8	20°26.0'	104.3	22°19.6'	143.2	42°40.8'	184.0	43°29.4'	238.5	42°35.6'	326.6	120	51°06.7'	56.5	10°07.0'	99.8	19°12.2'	154.0	43°07.8'	199.7	49°22.5'	269.1	54°36.8'	298.3	51°53.1'	355.2
31	19°08.2'	33.4	29°37.0'	75.2	21°23.3'	104.2	22°55.0'	143.4	42°36.3'	184.7	42°38.9'	238.8	42°02.7'	325.7	121	51°55.8'	55.7	11°05.2'	99.6	19°38.1'	154.1	42°47.4'	200.0	48°23.5'	268.9	53°44.6'	297.5	51°47.4'	353.8
32	19°40.6'	33.0	30°34.2'	75.2	22°20.6'	104.1	23°31.1'	143.5	42°31.1'	185.4	41°48.3'	239.1	41°29.1'	324.8	122	52°24.4'	54.8	12°03.9'	99.5	20°03.9'	154.2	42°26.7'	201.0	47°24.4'	268.8	52°52.0'	296.7	51°40.1'	352.4
33	20°12.5'	32.0	31°31.1'	74.8	23°17.9'	104.0	24°05.2'	143.7	42°25.2'	186.2	40°57.5'	239.4	40°54.6'	323.9	123	53°32.3'	53.8	13°01.7'	99.4	20°29.5'	154.4	42°05.2'	201.7	46°25.3'	268.6	51°59.1'	296.0	51°31.6'	350.9
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Table with 15 columns (LHA, Hc, Zn) and 15 rows of star data. Each row contains star names (e.g., ARCTURUS, ANTARES, ACRUX) and their corresponding coordinates. The table is organized into 15 vertical sections, each with a unique header row.

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
	*Alpheratz		Hamal		ALDEBARAN		RIGEL		ACHERNAR		*Fomalhaut		Enif	
0	49°44.1'	03.2	43°19.8'	42.0	16°11.2'	69.0	12°23.6'	96.1	40°07.9'	162.8	66°37.3'	215.4	50°27.9'	300.8
1	49°46.6'	01.8	43°58.9'	41.1	17°06.1'	68.7	13°22.2'	95.9	40°25.0'	163.4	66°02.6'	217.0	49°37.1'	300.0
2	49°47.8'	00.5	44°37.3'	40.2	18°00.9'	68.4	14°20.8'	95.7	40°41.6'	164.0	65°26.5'	218.0	48°46.0'	299.3
3	49°47.6'	359.1	45°14.9'	39.3	18°55.6'	68.1	15°19.4'	95.6	40°57.5'	164.7	64°49.2'	220.5	47°54.1'	298.6
4	49°46.6'	357.8	45°51.8'	38.3	19°50.2'	67.8	16°18.0'	95.4	41°12.7'	165.3	64°10.3'	221.4	47°02.5'	297.9
5	49°43.1'	356.4	46°27.9'	37.0	20°44.6'	67.4	17°16.7'	95.2	41°27.4'	165.9	63°31.4'	222.7	46°10.3'	297.2
6	49°38.7'	356.1	47°03.1'	36.3	21°39.0'	67.1	18°15.3'	95.1	41°41.4'	166.6	62°51.0'	223.9	45°17.8'	296.6
7	49°33.0'	353.7	47°37.3'	35.2	22°32.1'	66.7	19°14.0'	94.9	41°54.7'	167.3	62°09.8'	225.0	44°24.9'	295.9
8	49°25.9'	352.4	48°11.0'	34.1	23°27.2'	66.4	20°12.7'	94.8	42°07.3'	167.9	61°27.7'	226.1	43°31.1'	295.3
9	49°17.4'	351.1	48°43.6'	33.0	24°21.1'	66.0	21°11.4'	94.6	42°19.3'	168.6	60°44.9'	227.2	42°38.5'	294.8
10	49°07.6'	349.8	49°15.2'	31.9	25°14.8'	65.6	22°10.1'	94.4	42°30.6'	169.3	60°01.3'	228.1	41°44.9'	294.2
11	48°56.5'	348.5	49°45.8'	30.7	26°08.4'	65.3	23°08.8'	94.3	42°41.2'	170.0	59°17.2'	229.0	40°51.5'	293.6
12	48°44.1'	347.2	50°15.3'	29.5	27°01.0'	64.9	24°07.6'	94.1	42°51.1'	170.7	58°32.4'	229.9	39°57.0'	293.1
13	48°30.4'	345.9	50°43.7'	28.2	27°55.8'	64.6	25°06.3'	94.0	43°00.2'	171.4	57°47.0'	230.7	39°02.0'	292.6
14	48°15.5'	344.7	51°11.0'	27.0	28°48.0'	64.2	26°05.1'	93.8	43°08.7'	172.1	57°01.2'	231.5	38°08.2'	292.1
	Hamal		*ALDEBARAN		RIGEL		*ACHERNAR		FOMALHAUT		*Enif		Alpheratz	
15	51°37.1'	25.7	29°40.9'	63.6	27°03.9'	93.6	43°16.4'	172.8	56°14.9'	232.2	37°13.6'	291.7	47°59.3'	343.4
16	52°02.1'	24.4	30°33.6'	63.1	28°02.6'	93.5	43°23.3'	173.6	55°28.1'	232.9	36°18.8'	291.2	47°41.8'	342.2
17	52°25.7'	23.0	31°26.0'	62.7	29°01.4'	93.3	43°29.5'	174.3	54°40.9'	233.6	35°23.8'	290.8	47°23.2'	341.0
18	52°48.4'	21.6	32°18.2'	62.2	30°00.2'	93.2	43°35.0'	175.1	53°53.3'	234.2	34°28.6'	290.3	47°03.5'	339.8
19	53°09.2'	20.2	33°10.5'	61.7	31°00.9'	93.0	43°39.7'	175.8	53°05.4'	234.8	33°33.3'	289.9	46°42.5'	338.6
20	53°28.8'	18.8	34°01.9'	61.2	31°57.9'	92.8	43°43.6'	176.5	52°17.1'	235.3	32°37.3'	289.4	46°20.5'	337.5
21	53°47.1'	17.3	34°53.4'	60.7	32°56.7'	92.7	43°46.8'	177.3	51°28.5'	235.8	31°42.3'	289.1	45°57.4'	336.3
22	54°03.9'	15.9	35°44.7'	60.2	33°55.5'	92.5	43°49.2'	178.0	50°39.6'	236.3	30°46.6'	288.7	45°33.2'	335.2
23	54°19.3'	14.4	36°35.6'	59.6	34°54.4'	92.4	43°50.9'	178.8	49°50.5'	236.8	29°50.7'	288.3	45°08.1'	334.1
24	54°33.1'	12.8	37°26.3'	59.1	35°53.2'	92.2	43°51.7'	179.5	49°01.1'	237.2	28°54.8'	288.0	44°41.9'	333.1
25	54°45.4'	11.3	38°16.6'	58.5	36°52.1'	92.0	43°51.8'	180.3	48°11.5'	237.6	27°58.7'	287.6	44°14.7'	332.0
26	54°56.2'	09.7	39°06.7'	57.9	37°51.0'	91.8	43°51.1'	181.0	47°21.6'	238.0	27°02.5'	287.3	43°46.6'	331.0
27	55°05.3'	08.1	39°56.6'	57.2	38°48.9'	91.7	43°49.7'	181.8	46°31.6'	238.4	26°06.2'	287.0	43°17.6'	330.0
28	55°12.9'	06.4	40°45.7'	56.6	39°48.7'	91.5	43°47.4'	182.5	45°41.3'	238.7	25°09.8'	286.6	42°47.7'	329.0
29	55°18.8'	05.0	41°34.7'	55.9	40°47.6'	91.4	43°44.4'	183.3	44°50.9'	239.0	24°13.3'	286.3	42°17.0'	328.1
	CAPPELLA		*BETELGEUSE		SIRIUS		CANOPUS		*ACHERNAR		FOMALHAUT		*Alpheratz	
30	17°45.6'	33.7	28°24.8'	75.3	20°40.6'	103.9	23°07.6'	143.0	43°40.7'	184.0	44°00.3'	239.3	41°45.4'	327.1
31	18°18.1'	33.2	29°21.7'	74.9	21°37.8'	103.8	23°43.0'	143.1	43°36.1'	184.8	43°08.6'	239.6	41°13.0'	326.2
32	18°50.2'	32.8	30°18.5'	74.3	22°35.0'	103.7	24°18.3'	143.3	43°30.9'	185.5	42°19.7'	240.0	40°39.9'	325.4
33	19°21.9'	32.3	31°15.2'	74.2	23°32.2'	103.6	24°53.5'	143.4	43°24.8'	186.3	41°27.7'	240.1	40°06.0'	324.4
34	19°53.1'	31.8	32°11.9'	73.9	24°29.5'	103.5	25°28.5'	143.6	43°18.0'	187.0	40°36.4'	240.4	39°31.3'	323.6
35	20°24.0'	31.3	33°08.4'	73.5	25°26.7'	103.4	26°03.3'	143.8	43°10.5'	187.7	39°45.3'	240.6	38°56.1'	322.7
36	20°54.3'	30.8	34°04.8'	73.1	26°24.0'	103.4	26°38.0'	144.0	43°02.2'	188.4	38°54.4'	240.8	38°20.1'	321.9
37	21°24.3'	30.3	35°01.1'	72.7	27°21.4'	103.3	27°12.5'	144.2	42°53.2'	189.1	38°02.5'	241.0	37°43.4'	321.1
38	21°53.7'	29.8	35°57.3'	72.3	28°18.7'	103.2	27°46.9'	144.5	42°43.5'	189.8	37°11.0'	241.2	37°06.2'	320.4
39	22°22.7'	29.2	36°53.4'	71.9	29°16.0'	103.1	28°21.0'	144.7	42°33.3'	190.5	36°19.3'	241.3	36°28.3'	319.6
40	22°51.2'	28.7	37°49.3'	71.5	30°13.4'	103.1	28°55.0'	144.8	42°22.0'	191.2	35°27.1'	241.3	35°50.9'	318.9
41	23°19.9'	28.1	38°45.1'	71.1	31°10.8'	103.0	29°28.7'	145.2	42°10.1'	191.9	34°35.8'	241.6	35°10.9'	318.2
42	23°46.7'	27.5	39°40.7'	70.6	32°08.2'	103.0	30°02.2'	145.5	41°57.6'	192.6	33°44.7'	241.7	34°31.3'	317.5
43	24°13.7'	27.0	40°36.2'	70.1	33°05.6'	102.9	30°35.5'	145.7	41°44.4'	193.3	32°52.1'	241.8	33°51.2'	316.8
44	24°40.1'	26.4	41°31.5'	69.7	34°03.0'	102.9	31°08.5'	146.0	41°30.6'	193.9	32°00.2'	241.9	33°10.7'	316.1
	*CAPPELLA		BETELGEUSE		SIRIUS		*CANOPUS		*ACHERNAR		FOMALHAUT		Alpheratz	
45	25°06.0'	25.8	42°26.6'	69.2	35°00.4'	102.8	31°41.3'	146.3	41°16.1'	194.6	31°08.2'	242.0	32°29.6'	315.5
46	25°31.4'	25.2	43°21.6'	68.6	35°57.8'	102.8	32°13.8'	146.7	41°01.0'	195.2	30°16.1'	242.1	31°48.1'	314.9
47	25°56.1'	24.5	44°16.3'	68.1	36°55.3'	102.8	32°46.0'	147.0	40°45.2'	195.8	29°24.0'	242.2	31°06.1'	314.2
48	26°20.3'	23.9	45°10.5'	67.7	37°52.7'	102.7	33°18.7'	147.3	40°28.9'	196.5	28°31.9'	242.3	30°23.7'	313.6
49	26°43.9'	23.3	46°05.3'	67.0	38°50.2'	102.7	33°49.5'	147.7	40°11.9'	197.1	27°39.8'	242.3	29°40.9'	313.1
50	27°06.8'	22.6	46°59.3'	66.4	39°47.6'	102.7	34°20.8'	148.1	39°54.3'	197.7	26°47.6'	242.3	28°57.7'	312.5
51	27°29.2'	22.0	47°53.1'	65.7	40°45.1'	102.7	34°51.8'	148.5	39°36.2'	198.2	25°55.6'	242.4	28°14.0'	312.0
52	27°50.9'	21.3	48°46.7'	65.1	41°42.5'	102.7	35°22.5'	148.9	39°17.4'	198.8	25°03.3'	242.4	27°30.1'	311.4
53	28°11.9'	20.6	49°39.9'	64.4	42°40.0'	102.7	35°52.7'	149.3	38°58.2'	199.4	24°11.1'	242.4	26°45.7'	310.9
54	28°32.4'	19.9	50°32.9'	63.7	43°37.4'	102.7	36°22.6'	149.7	38°38.4'	199.9	23°18.8'	242.4	26°01.0'	310.4
55	28°52.1'	19.1	51°25.5'	63.0	44°34.9'	102.7	36°52.1'	150.1	38°18.0'	200.5	22°26.6'	242.4	25°16.0'	309.9
56	29°11.1'	18.5	52°17.8'	62.3	45°32.3'	102.7	37°21.3'	150.5	37°57.2'	201.0	21°34.4'	242.4	24°30.6'	309.4
57	29°29.5'	17.8	53°09.7'	61.6	46°29.8'	102.7	37°50.0'	151.1	37°35.8'	201.5	20°42.2'	242.4	23°45.4'	308.9
58	29°47.2'	17.1	54°01.2'	60.9	47°27.2'	102.7	38°18.3'	151.5	37°14.0'	202.0	19°50.0'	242.4	22°59.0'	308.5
59	30°04.1'	16.4	54°52.3'	60.2	48°24.6'	102.9	38°46.1'	152.0	36°51.6'	202.5	18°57.8'	242.4	22°12.8'	308.0
	CAPPELLA		POLLUX		*SIRIUS		CANOPUS		*ACHERNAR		Diphda		*Hamal	
60	30°20.3'	15.6	52°47.0'	59.3	49°22.0'	102.9	39°13.4'	152.3	36°28.8'	203.0	42°19.3'	255.8	45°57.3'	321.9
61	30°35.8'	14.9	53°34.0'	58.7	50°19.4'	103.0	39°40.4'	152.6	36°05.6'	203.5	41°22.2'	255.8	45°20.3'	321.0
62	30°50.6'	14.1	54°20.7'	58.1	51°16.8'	103.1	40°06.6'	153.0	35°41.9'	203.9	40°25.1'	255.8	44°43.0'	319.9
63	31°04.5'	13.3	55°07.1'	57.5	52°14.1'	103.2	40°32.7'	153.4	35°17.8'	204.4	39°28.0'	255.8	44°04.0'	318.9
64	31°17.7'	12.6	55°53.2'	56.9	53°11.5'	103.3	40°58.1'	153.8						

Table of star coordinates for Lat 11 S, columns include LHA, Hc, Zn, and star names like ARCTURUS, ANTARES, ACRUX, etc.

Table of star coordinates for Lat 11 S, columns include LHA, Hc, Zn, and star names like VEGA, ALTAIR, FOMALHAUT, etc.

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	
0	48°44.2'	03.1	42°35.0'	41.4	15°49.5'	68.7	12°29.8'	95.8	41°05.2'	162.6	67°25.8'	216.8	49°56.7'	301.9	
1	48°46.7'	01.8	43°13.5'	40.5	16°44.2'	68.4	13°28.2'	95.7	41°22.5'	163.2	66°50.0'	218.4	49°06.6'	301.1	
2	48°47.8'	00.5	43°51.2'	39.6	17°38.7'	68.1	14°26.6'	95.6	41°39.2'	163.8	66°12.9'	220.0	48°16.2'	300.3	
3	48°47.8'	359.1	44°28.2'	38.6	18°33.1'	67.8	15°25.1'	95.3	41°55.3'	164.4	65°34.7'	221.4	47°25.3'	299.5	
4	48°46.4'	357.8	45°04.0'	37.7	19°27.3'	67.4	16°23.3'	95.1	42°10.7'	165.1	64°55.3'	222.8	46°34.0'	298.8	
5	48°43.2'	356.5	45°39.9'	36.7	20°21.4'	67.1	17°22.0'	94.9	42°25.5'	165.7	64°15.0'	224.1	45°42.4'	298.1	
6	48°38.9'	356.2	46°14.6'	35.6	21°15.4'	66.7	18°20.5'	94.7	42°39.7'	166.4	63°33.7'	225.3	44°50.5'	297.4	
7	48°33.3'	353.9	46°48.3'	34.6	22°09.3'	66.4	19°19.0'	94.6	42°53.2'	167.0	62°51.6'	226.4	43°58.3'	296.8	
8	48°26.4'	352.6	47°21.2'	33.5	23°03.0'	66.0	20°17.7'	94.3	43°06.0'	167.7	62°08.8'	227.5	43°05.7'	296.2	
9	48°18.1'	351.3	47°53.1'	32.4	23°56.5'	65.6	21°16.0'	94.2	43°18.1'	168.4	61°25.1'	228.5	42°12.9'	295.6	
10	48°08.6'	350.0	48°24.0'	31.3	24°49.8'	65.2	22°14.5'	94.0	43°29.5'	169.1	60°40.9'	229.5	41°19.9'	295.0	
11	47°57.7'	348.7	48°54.0'	30.2	25°43.0'	64.8	23°13.1'	93.7	43°40.3'	169.8	59°56.0'	230.5	40°26.6'	294.4	
12	47°45.6'	347.4	49°22.7'	29.2	26°36.1'	64.2	24°11.6'	93.5	43°50.0'	170.5	59°10.5'	231.2	39°33.1'	293.9	
13	47°32.2'	346.2	49°50.7'	28.7	27°29.8'	64.0	25°10.2'	93.3	43°59.6'	171.3	58°24.5'	232.0	38°39.3'	293.4	
14	47°17.6'	344.9	50°17.4'	26.4	28°21.5'	63.5	26°08.8'	93.3	44°08.1'	172.0	57°38.0'	232.7	37°45.3'	292.9	
			Hamal		*ALDEBARAN		RIGEL		*ACHERNAR		FOMALHAUT		*Enif		Alpheratz
15	50°43.0'	25.2	29°14.0'	63.1	12°07.0'	93.1	14°45.9'	172.7	56°51.1'	233.4	36°51.1'	292.4	47°01.7'	343.7	
16	51°07.3'	23.9	30°06.2'	62.6	28°06.0'	92.9	14°42.9'	172.5	56°03.8'	234.1	35°56.7'	291.9	46°44.7'	342.5	
17	51°30.4'	22.5	30°58.2'	62.1	29°04.0'	92.8	14°40.2'	172.3	55°16.0'	234.7	35°02.2'	291.4	46°26.5'	341.3	
18	51°52.2'	21.2	31°50.0'	61.7	30°03.2'	92.6	14°34.8'	172.0	54°27.9'	235.3	34°07.6'	291.0	46°07.1'	340.1	
19	52°12.8'	19.8	32°41.5'	61.2	31°01.9'	92.4	14°29.3'	171.7	53°39.5'	235.9	33°12.6'	290.5	45°46.6'	339.0	
20	52°32.0'	18.4	33°32.8'	60.6	32°00.0'	92.2	14°24.3'	171.4	52°50.8'	236.4	32°17.1'	290.0	45°25.0'	337.9	
21	52°49.8'	16.9	34°23.8'	60.1	32°59.2'	92.0	14°19.7'	171.1	52°01.8'	236.9	31°22.3'	289.5	45°02.4'	336.7	
22	53°06.2'	15.5	35°14.5'	59.6	33°57.8'	91.8	14°14.9'	170.8	51°12.5'	237.4	30°27.0'	289.3	44°38.7'	335.6	
23	53°21.1'	14.3	36°05.0'	59.0	34°56.5'	91.7	14°10.0'	170.5	50°22.9'	237.8	29°31.6'	288.9	44°14.0'	334.6	
24	53°34.6'	12.5	36°55.1'	58.3	35°55.2'	91.5	14°05.1'	170.2	49°33.2'	238.2	28°36.0'	288.4	43°48.3'	333.6	
25	53°46.6'	11.0	37°45.0'	57.8	36°53.8'	91.3	14°00.1'	169.9	48°43.2'	238.6	27°40.3'	288.1	43°21.6'	332.5	
26	53°57.0'	09.9	38°34.5'	57.2	37°52.5'	91.1	14°00.1'	169.7	47°53.0'	238.9	26°44.4'	287.8	42°54.6'	331.5	
27	54°05.9'	07.9	39°23.6'	56.6	38°51.2'	90.9	14°00.1'	169.5	47°02.6'	239.3	25°48.5'	287.4	42°25.5'	330.5	
28	54°13.2'	06.4	40°12.4'	55.9	39°49.9'	90.7	14°00.1'	169.3	46°12.1'	239.6	24°52.4'	287.1	41°56.2'	329.5	
29	54°19.0'	04.8	41°00.8'	55.2	40°48.5'	90.5	14°00.1'	169.1	45°21.4'	239.9	23°56.3'	286.7	41°25.9'	328.5	
			CEPHELA		*BETELGEUSE		SIRIUS		CANOPUS		*ACHERNAR		FOMALHAUT		*Alpheratz
30	16°55.7'	33.5	28°09.2'	74.7	20°54.8'	103.5	23°55.4'	142.7	44°40.5'	184.1	44°30.6'	240.2	40°54.9'	327.6	
31	17°27.9'	33.1	29°05.6'	74.4	21°51.9'	103.4	24°30.9'	142.8	44°35.9'	184.9	43°39.9'	240.4	40°23.0'	326.7	
32	17°59.7'	32.6	30°02.3'	74.0	22°49.0'	103.3	25°06.3'	143.0	44°30.6'	185.6	42°48.5'	240.7	39°50.0'	326.0	
33	18°31.1'	32.1	30°58.6'	73.7	23°46.1'	103.2	25°41.6'	143.2	44°24.4'	186.4	41°57.2'	240.9	39°17.0'	324.9	
34	19°02.1'	31.6	31°54.9'	73.3	24°43.3'	103.1	26°16.7'	143.3	44°17.6'	187.1	41°05.9'	241.1	38°42.1'	324.1	
35	19°32.6'	31.1	32°51.1'	72.9	25°40.5'	103.0	26°51.7'	143.5	44°09.9'	187.8	40°14.5'	241.3	38°08.1'	323.2	
36	20°02.8'	30.6	33°47.1'	72.5	26°37.7'	102.9	27°26.5'	143.7	44°01.6'	188.6	39°22.9'	241.5	37°32.7'	322.4	
37	20°32.4'	30.1	34°43.0'	72.1	27°34.9'	102.8	28°01.1'	143.9	43°52.4'	189.3	38°31.1'	241.7	36°56.6'	321.6	
38	21°01.6'	29.6	35°38.8'	71.7	28°32.1'	102.7	28°35.6'	144.1	43°42.6'	190.0	37°39.6'	241.8	36°19.8'	320.8	
39	21°30.3'	29.0	36°34.1'	71.2	29°29.4'	102.6	29°09.9'	144.4	43°32.1'	190.7	36°47.8'	242.0	35°42.5'	320.1	
40	21°58.5'	28.5	37°29.9'	70.7	30°26.7'	102.5	29°44.0'	144.6	43°20.8'	191.4	35°56.0'	242.1	35°04.5'	319.4	
41	22°26.3'	27.9	38°25.2'	70.3	31°24.0'	102.4	30°17.9'	144.9	43°08.8'	192.1	35°04.0'	242.2	34°26.0'	318.6	
42	22°53.5'	27.3	39°20.4'	69.8	32°21.3'	102.4	30°51.5'	145.1	42°56.2'	192.8	34°12.2'	242.3	33°46.4'	317.9	
43	23°20.2'	26.8	40°15.4'	69.3	33°18.6'	102.3	31°25.0'	145.4	42°42.8'	193.5	33°20.2'	242.4	33°07.4'	317.2	
44	23°46.3'	26.2	41°10.2'	68.8	34°16.0'	102.2	31°58.2'	145.7	42°28.8'	194.1	32°28.1'	242.5	32°27.3'	316.6	
			*CEPHELA		BETELGEUSE		SIRIUS		*CANOPUS		*ACHERNAR		FOMALHAUT		Alpheratz
45	24°12.0'	25.6	42°04.9'	68.3	35°13.4'	102.1	32°31.1'	146.0	42°14.2'	194.8	31°36.6'	242.6	31°46.7'	315.9	
46	24°37.0'	25.0	42°59.3'	67.8	36°10.7'	102.1	33°03.8'	146.3	41°58.9'	195.4	30°43.9'	242.6	31°05.6'	315.3	
47	25°01.5'	24.3	43°53.6'	67.3	37°07.8'	102.0	33°36.2'	146.6	41°42.9'	196.1	29°51.8'	242.7	30°24.1'	314.7	
48	25°25.4'	23.7	44°47.5'	66.8	38°05.1'	102.0	34°08.3'	147.0	41°26.4'	196.7	28°59.6'	242.7	29°42.1'	314.1	
49	25°48.7'	23.1	45°41.3'	66.0	39°03.0'	101.9	34°40.2'	147.3	41°09.2'	197.3	28°07.5'	242.8	28°59.8'	313.5	
50	26°11.4'	22.4	46°34.8'	65.4	40°00.4'	101.9	35°11.7'	147.7	40°51.4'	197.9	27°15.3'	242.8	28°17.0'	312.9	
51	26°33.5'	21.8	47°28.0'	64.7	40°57.8'	101.8	35°45.9'	148.1	40°33.1'	198.5	26°23.1'	242.8	27°33.8'	312.3	
52	26°54.5'	21.1	48°20.9'	64.1	41°55.3'	101.8	36°13.7'	148.5	40°14.2'	199.1	25°30.9'	242.8	26°50.0'	311.8	
53	27°15.8'	20.4	49°13.6'	63.4	42°52.7'	101.8	36°46.4'	148.9	39°54.7'	199.7	24°38.6'	242.8	26°06.3'	311.3	
54	27°35.9'	19.7	50°05.8'	62.6	43°50.2'	101.8	37°14.3'	149.3	39°34.7'	200.2	23°46.4'	242.8	25°22.0'	310.8	
55	27°55.4'	19.1	50°57.8'	61.9	44°47.6'	101.8	37°44.1'	149.8	39°14.2'	200.8	22°54.4'	242.8	24°37.3'	310.2	
56	28°14.2'	18.4	51°49.3'	61.1	45°45.1'	101.8	38°13.4'	150.2	38°53.1'	201.3	22°02.0'	242.8	23°52.4'	309.8	
57	28°32.4'	17.6	52°40.6'	60.3	46°42.4'	101.8	38°42.4'	150.7	38°31.4'	201.8	21°09.8'	242.8	23°07.1'	309.3	
58	28°49.8'	16.9	53°31.2'	59.4	47°39.1'	101.8	39°10.9'	151.2	38°09.5'	202.3	20°17.7'	242.7	22°21.6'	308.8	
59	29°06.5'	16.2	54°21.5'	58.5	48°37.4'	101.8	39°39.0'	151.7	37°47.0'	202.8	19°25.5'	242.7	21°35.7'	308.4	
			CEPHELA		POLLUX		*SIRIUS		CANOPUS		*ACHERNAR		Diphda		*Hamal
60	29°22.5'	15.5	55°10.9'	52.8	49°34.9'	101.8	40°06.6'	152.2	37°24.0'	203.3	42°33.6'	256.7	45°09.9'	322.5	
61	29°37.8'	14.7	55°57.5'	52.3	50°32.3'	101.8	40°38.1'	152.7	37°00.6'	203.8	41°36.5'	256.8	44°33.8'	321.5	
62	29°52.3'	14.0	56°43.8'	51.9	51°29.8'	101.9	41°10.0'	153.2	36°36.7'	204.2	40°39.4'	256.8	43°56.9'	320.6	
63	30°06.1'	13.2	57°29.8'	51.4	52°27.2'	101.9	41°26.6'	153.8	36°12.4'	204.7	39°42.3'	256.8	43°19.3'	319.6	
64	30°19.2'	12.4	58°15.5'	50.9	53°24.6'	102.0	41°52.2'	154.4	35°47.7'	205.1	38°45.2'				

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
180	44°11.4'	47.7	25°10.9'	113.8	38°33.2'	176.0	41°34.0'	221.2	52°38.0'	271.3	53°38.0'	310.0	63°25.6'	354.6
181	44°54.6'	46.9	26°04.6'	113.8	38°37.0'	176.6	40°55.2'	221.6	51°40.2'	271.0	52°52.7'	309.0	63°19.0'	352.5
182	45°37.1'	46.0	26°58.3'	113.8	38°40.0'	177.2	40°16.0'	222.1	50°41.5'	270.8	52°06.7'	308.0	63°10.2'	350.4
183	46°18.9'	45.0	27°52.1'	113.8	38°42.8'	177.7	39°36.5'	222.5	49°42.8'	270.6	51°20.7'	307.0	62°59.3'	348.3
184	47°00.1'	44.1	28°45.8'	113.8	38°44.4'	178.3	38°56.6'	223.2	48°44.4'	270.4	50°33.1'	306.0	62°46.3'	346.2
185	47°40.6'	43.1	29°39.5'	113.8	38°46.3'	178.9	38°16.7'	223.7	47°45.5'	270.2	49°45.4'	305.0	62°32.3'	344.1
186	48°20.3'	42.1	30°33.2'	113.8	38°47.2'	179.5	37°36.4'	223.5	46°46.8'	270.0	48°57.2'	304.0	62°14.3'	342.0
187	48°59.3'	41.1	31°26.8'	113.8	38°47.4'	180.0	36°55.9'	223.9	45°48.1'	269.7	48°08.5'	303.0	61°55.3'	340.2
188	49°37.5'	40.2	32°15.1'	113.8	38°47.1'	180.6	36°15.1'	224.4	44°49.4'	269.5	47°19.3'	302.0	61°35.3'	338.3
189	50°14.8'	38.9	33°14.2'	113.9	38°46.2'	181.2	35°34.1'	224.5	43°50.7'	269.3	46°29.7'	302.0	61°11.9'	336.4
190	50°51.2'	37.8	34°07.8'	114.0	38°44.6'	181.8	34°52.8'	224.8	42°52.0'	269.2	45°39.8'	301.2	60°47.6'	334.6
191	51°26.6'	36.6	35°01.8'	114.1	38°42.8'	182.3	34°11.4'	225.0	41°53.3'	269.0	44°49.4'	300.5	60°21.6'	332.8
192	52°01.1'	35.4	35°55.0'	114.1	38°39.8'	182.9	33°29.9'	225.3	40°54.7'	268.8	43°58.6'	299.8	59°54.9'	331.5
193	52°34.6'	34.1	36°48.5'	114.2	38°36.8'	183.5	32°48.0'	225.7	39°56.0'	268.6	43°07.7'	299.5	59°25.0'	330.1
194	53°06.9'	32.8	37°42.0'	114.3	38°32.7'	184.1	32°06.0'	225.8	38°57.3'	268.4	42°16.1'	298.5	58°54.5'	327.9
195	53°38.2'	31.5	38°35.5'	114.4	38°28.2'	184.6	31°23.9'	226.0	38°00.0'	268.2	41°24.4'	297.9	58°22.6'	326.3
196	54°08.3'	30.2	39°28.9'	114.5	38°23.1'	185.0	30°41.6'	226.2	37°00.0'	268.0	40°32.4'	297.0	57°50.9'	324.8
197	54°37.1'	28.8	40°19.0'	114.6	38°17.6'	185.8	29°59.2'	226.4	35°49.0'	267.8	39°40.0'	296.0	57°15.0'	323.4
198	55°04.7'	27.3	41°06.2'	114.7	38°11.4'	186.3	29°16.7'	226.5	34°47.5'	267.6	38°47.5'	295.0	56°39.3'	322.0
199	55°31.0'	25.9	41°51.8'	114.8	38°04.8'	186.9	28°34.9'	226.7	33°46.7'	267.4	37°46.7'	294.0	55°66.0'	320.6
200	55°56.9'	24.4	42°37.4'	114.9	37°57.3'	187.4	27°52.1'	226.9	32°46.1'	267.2	36°46.1'	293.0	54°54.9'	319.3
201	56°19.4'	22.8	43°22.5'	115.0	37°49.5'	187.8	27°08.4'	227.0	31°45.4'	267.0	35°45.4'	292.0	54°06.4'	318.0
202	56°41.4'	21.2	44°07.1'	115.1	37°41.1'	188.5	26°25.4'	227.1	30°44.9'	266.8	34°44.9'	291.0	53°14.9'	316.8
203	57°01.9'	19.6	44°43.3'	115.2	37°32.1'	189.1	25°42.3'	227.2	29°44.2'	266.6	33°44.2'	290.0	52°23.2'	315.6
204	57°20.8'	18.0	45°19.4'	115.3	37°22.6'	189.6	24°59.2'	227.3	28°43.5'	266.4	32°43.5'	289.0	51°32.4'	314.5
205	57°38.1'	16.3	46°03.1'	115.4	37°12.6'	190.1	24°16.0'	227.4	27°42.8'	266.2	31°42.8'	288.0	50°41.6'	313.4
206	57°53.7'	14.6	46°47.2'	115.5	37°02.0'	190.6	23°32.7'	227.5	26°42.1'	266.0	30°42.1'	287.0	49°50.9'	312.4
207	58°07.7'	12.9	47°31.8'	115.6	36°50.9'	191.1	22°49.4'	227.6	25°41.4'	265.8	29°41.4'	286.0	49°00.0'	311.4
208	58°19.8'	11.1	48°17.3'	115.7	36°39.8'	191.6	22°06.1'	227.7	24°40.7'	265.6	28°40.7'	285.0	48°09.1'	310.4
209	58°30.3'	9.9	49°01.7'	115.8	36°29.1'	192.1	21°22.7'	227.8	23°40.0'	265.4	27°40.0'	284.0	47°18.0'	309.4
210	58°38.9'	07.5	49°45.9'	115.9	36°18.4'	192.6	20°40.0'	227.9	22°39.3'	265.2	26°39.3'	283.0	46°27.0'	308.4
211	58°45.7'	05.7	50°31.5'	116.0	36°07.7'	193.1	19°58.3'	228.0	21°57.6'	265.0	25°37.6'	282.0	45°36.0'	307.4
212	58°50.6'	03.9	51°18.2'	116.1	35°57.0'	193.6	19°16.2'	228.1	21°16.0'	264.8	24°36.0'	281.0	44°45.0'	306.4
213	58°53.7'	02.1	52°04.9'	116.2	35°46.3'	194.1	18°34.1'	228.2	20°34.9'	264.6	23°34.9'	280.0	43°54.0'	305.4
214	58°54.9'	00.3	52°51.6'	116.3	35°35.6'	194.6	17°52.0'	228.3	19°53.0'	264.4	22°52.0'	279.0	43°03.0'	304.4
215	58°54.2'	358.4	53°38.3'	116.4	35°24.9'	195.1	17°10.0'	228.4	19°11.9'	264.2	22°10.0'	278.0	42°12.0'	303.4
216	58°51.7'	356.6	54°25.0'	116.5	35°14.2'	195.6	16°27.9'	228.5	18°30.8'	264.0	21°27.9'	277.0	41°21.0'	302.4
217	58°47.3'	354.8	55°11.7'	116.6	35°03.5'	196.1	15°45.8'	228.6	17°50.7'	263.8	20°45.8'	276.0	40°30.0'	301.4
218	58°41.1'	353.0	55°58.4'	116.7	34°52.8'	196.6	14°63.7'	228.7	17°10.6'	263.6	19°63.7'	275.0	39°39.0'	300.4
219	58°33.3'	351.2	56°45.1'	116.8	34°42.1'	197.1	13°81.6'	228.8	16°31.5'	263.4	18°41.6'	274.0	38°48.0'	299.4
220	58°24.1'	349.4	57°31.8'	116.9	34°31.4'	197.6	13°00.5'	228.9	15°49.4'	263.2	17°59.4'	273.0	37°57.0'	298.4
221	58°11.1'	347.6	58°18.5'	117.0	34°20.7'	198.1	12°19.4'	229.0	14°67.3'	263.0	17°17.3'	272.0	37°06.0'	297.4
222	57°58.0'	345.9	59°05.2'	117.1	34°10.0'	198.6	11°38.3'	229.1	13°45.2'	262.8	16°35.2'	271.0	36°15.0'	296.4
223	57°42.8'	344.2	59°51.9'	117.2	34°00.0'	199.1	10°57.2'	229.2	12°63.1'	262.6	15°53.1'	270.0	35°24.0'	295.4
224	57°26.0'	342.5	60°38.6'	117.3	33°50.0'	199.6	10°16.1'	229.3	11°81.0'	262.4	15°11.0'	269.0	34°33.0'	294.4
225	57°03.9'	32.5	61°25.3'	117.4	33°39.3'	200.1	9°35.0'	229.4	10°99.9'	262.2	14°29.9'	268.0	33°42.0'	293.4
226	56°40.6'	11.1	62°12.0'	117.5	33°28.6'	200.6	8°53.9'	229.5	10°18.8'	262.0	13°47.8'	267.0	32°51.0'	292.4
227	56°16.6'	09.8	62°58.7'	117.6	33°17.9'	201.1	8°12.8'	229.6	9°37.7'	261.8	13°05.7'	266.0	32°00.0'	291.4
228	56°00.8'	08.1	63°44.8'	117.7	33°07.2'	201.6	7°26.7'	229.7	8°56.6'	261.6	12°23.6'	265.0	31°09.0'	290.4
229	55°43.7'	06.4	64°30.9'	117.8	32°56.5'	202.1	6°35.6'	229.8	7°75.5'	261.4	11°41.5'	264.0	30°18.0'	289.4
230	55°26.6'	04.7	65°17.0'	117.9	32°45.8'	202.6	5°44.5'	229.9	6°54.4'	261.2	10°59.4'	263.0	29°27.0'	288.4
231	55°10.0'	05.5	66°03.1'	118.0	32°35.1'	203.1	4°53.4'	230.0	6°13.3'	261.0	10°17.3'	262.0	28°36.0'	287.4
232	54°53.1'	04.1	66°48.2'	118.1	32°24.4'	203.6	4°12.2'	230.1	5°32.2'	260.8	9°35.2'	261.0	27°45.0'	286.4
233	54°36.0'	02.4	67°33.3'	118.2	32°13.7'	204.1	3°31.1'	230.2	4°51.1'	260.6	8°53.1'	260.0	26°54.0'	285.4
234	54°19.1'	359.8	68°18.4'	118.3	32°03.0'	204.6	2°50.0'	230.3	3°70.0'	260.4	8°11.0'	259.0	26°03.0'	284.4
235	54°02.2'	358.4	69°03.5'	118.4	31°52.3'	205.1	2°08.9'	230.4	2°48.9'	260.2	7°28.9'	258.0	25°12.0'	283.4
236	53°45.3'	356.6	69°48.6'	118.5	31°41.6'	205.6	1°27.8'	230.5	1°67.8'	260.0	6°46.8'	257.0	24°21.0'	282.4
237	53°28.4'	354.8	70°33.7'	118.6	31°30.9'	206.1	0°46.7'	230.6	0°86.7'	259.8	5°64.7'	256.0	23°30.0'	281.4
238	53°11.5'	353.0	71°18.8'	118.7	31°20.2'	206.6	0°05.6'	230.7	0°05.6'	259.6	4°82.6'	255.0	22°39.0'	280.4
239	52°54.6'	351.2	72°03.9'	118.8	31°09.5'	207.1	0°24.5'	230.8	0°24.5'	259.4	4°00.5'	254.0	21°48.0'	279.4
240	27°18.3'	33.8	28°43.9'	72.7	57°04.8'	143.8	38°59.4'	192.2	52°22.5'	267.1	49°48.8'	310.0	60°53.8'	341.9
241	27°50.7'	32.3	29°29.9'	72.7	57°39.1'	144.8	38°46.7'	192.8	51°23.5'	266.9	49°35.0'	309.0	60°41.4'	340.6
242	28°22.5'	32.5	30°15.7'	71.9	58°12.4'	145.9	38°33.5'	193.3	50°05.3'	266.8	49°21.3'	308.0	60°29.0'	339.3
243	28°53.8'	31.9	31°01.5'	71.6	58°44.9'	147.0	38°19.7'	193.9	48°56.7'	266.6	49°07.1'	307.0	60°16.6'	338.0
244	29°24.6'	31.2	31°47.2'	71.2	59°16.3'	148.2	38°05.3'	194.4	48°28.1'	266.5	48°52.7'	306.0	60°04.2'	336.7
245	29°54.7'	30.3	32°32.6'	70.7	59°46.7'	149.4	37°50.5'	194.9	47°59.5'	266.4	48°38.1'	305.0	59°51.8'	335.4
246	30°24.2'	29.8	33°17.9'	70.3	60°16.1'	150.7	37°35.1'	195.4	47°29.1'	266.3	48°13.5'	304.0	59°39.4'	334.2
247	30°53.0'	29.1	34°03.1'	69.9	60°44.2'	152.0	37°19.2'	196.0	46°52.4'	266.1	47°58.4'	303.0	59°27.0'	333.0
248	31°21.3'	28.4	34°48.0'	69.6	61°11.2'	153.3	37°02.8'	196.5	46°25.3'	265.9	47°33.3'	302.0	59°14.6'	331.7
249	31°48.9'	27.7	35°32.9'	69.1	61°36.9'	154.7	36°45.9'	197.0	45°58.2'	265.8	47°08.2'	301.0	59°02.2'	330.4
250	32°15.8'	26.9	36°17.6'	68.5	62°01.3'	156.2	36°28.5'	197.5	45°33.1'	265.6	46°43.1'	300.0	58°50.0'	329.0
251	32°42.0'	26.1	37°02.5'	68.0	62°24.3'	157.7	36°10.0'	198.0	45°07.0'	265.5	46°18.0'	299.0	58°37.6'	327.7
252	33													

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
0	47°44.2'	03.1	41°49.8'	40.8	15°27.6'	68.5	12°35.8'	95.6	42°02.4'	162.3	68°13.4'	218.3	49°24.6'	302.9
1	47°46.7'	01.8	42°27.6'	39.9	16°21.9'	68.1	13°34.0'	95.4	42°19.9'	162.9	67°36.5'	219.9	48°35.2'	302.0
2	47°47.8'	00.5	43°04.1'	39.0	17°16.1'	67.8	14°32.2'	95.2	42°36.8'	163.5	66°58.4'	221.5	47°45.5'	301.2
3	47°47.7'	359.2	43°41.2'	38.0	18°10.2'	67.5	15°30.5'	95.0	42°53.0'	164.2	66°19.2'	222.9	46°55.3'	300.5
4	47°46.1'	357.4	44°16.8'	37.1	19°04.1'	67.1	16°28.7'	94.8	43°08.7'	164.8	65°38.8'	224.3	46°04.7'	299.7
5	47°43.3'	356.9	44°51.6'	36.1	19°57.9'	66.7	17°27.0'	94.4	43°23.7'	165.6	64°57.6'	225.4	45°13.7'	299.0
6	47°39.1'	355.3	45°26.5'	35.0	20°51.5'	66.4	18°25.3'	94.4	43°38.0'	166.2	64°15.4'	226.7	44°22.4'	298.3
7	47°33.7'	354.0	45°58.7'	34.0	21°45.0'	66.0	19°23.6'	94.0	43°51.6'	166.8	63°32.5'	227.9	43°30.3'	297.7
8	47°26.9'	352.7	46°31.0'	32.9	22°38.4'	65.6	20°21.9'	94.0	44°04.6'	167.5	62°48.7'	228.9	42°38.9'	297.0
9	47°18.8'	351.4	47°02.3'	31.8	23°31.5'	65.2	21°20.2'	93.8	44°16.9'	168.2	62°04.3'	229.9	41°46.7'	296.4
10	47°09.5'	350.2	47°32.3'	30.7	24°24.5'	64.8	22°18.5'	93.6	44°28.5'	168.9	61°19.3'	230.8	40°54.1'	295.8
11	46°58.9'	348.9	48°01.9'	29.5	25°17.3'	64.4	23°16.9'	93.4	44°39.3'	169.7	60°33.7'	231.7	40°01.4'	295.2
12	46°47.0'	347.7	48°30.2'	28.4	26°09.9'	64.0	24°15.2'	93.2	44°49.4'	170.4	59°47.6'	232.3	39°08.8'	294.6
13	46°33.9'	346.4	48°57.4'	27.1	27°02.4'	63.5	25°13.6'	93.0	44°58.8'	171.1	59°00.9'	232.9	38°15.1'	294.1
14	46°19.6'	345.2	49°23.6'	25.9	27°54.6'	63.1	26°12.0'	92.8	45°07.5'	171.9	58°13.8'	234.0	37°21.6'	293.6
15	45°48.5'	24.7	28°46.6'	62.6	27°10.4'	92.6	45°15.4'	172.6	45°26.3'	234.7	36°27.9'	293.0	46°04.1'	344.0
16	50°12.3'	23.2	29°38.4'	62.1	28°08.8'	92.4	45°22.6'	173.4	45°38.4'	235.3	35°34.0'	292.5	45°47.4'	342.8
17	50°34.9'	22.1	30°29.9'	61.6	29°07.2'	92.2	45°28.9'	174.1	45°50.2'	235.9	34°40.0'	292.1	45°29.6'	341.7
18	50°56.2'	21.0	31°21.2'	61.1	30°05.6'	92.0	45°34.5'	174.9	45°56.1'	236.5	33°45.7'	291.6	45°10.6'	340.5
19	51°16.2'	19.3	32°12.3'	60.6	31°04.1'	91.8	45°39.4'	175.6	45°54.1'	237.1	32°51.2'	291.1	44°50.0'	339.2
20	51°35.0'	18.0	33°03.3'	60.1	32°02.5'	91.6	45°43.4'	176.4	45°53.2'	237.7	31°56.6'	290.7	44°29.4'	338.2
21	51°52.3'	16.6	33°53.6'	59.5	33°01.0'	91.4	45°46.7'	177.2	45°52.3'	238.3	31°01.0'	290.3	44°07.7'	337.1
22	52°08.3'	15.1	34°43.9'	59.0	33°59.4'	91.2	45°49.2'	178.0	45°51.4'	238.4	30°06.9'	289.8	43°43.9'	336.0
23	52°22.2'	13.7	35°33.8'	58.4	34°57.9'	91.0	45°50.8'	178.7	45°50.4'	238.8	29°11.1'	289.4	43°19.7'	335.0
24	52°36.0'	12.2	36°23.4'	57.8	35°56.3'	90.7	45°51.7'	179.5	45°50.4'	239.2	28°16.7'	289.0	42°54.9'	334.0
25	52°47.6'	10.8	37°12.7'	57.2	36°54.8'	90.5	45°51.8'	180.3	45°51.4'	239.6	27°21.3'	288.6	42°28.3'	332.9
26	52°57.8'	09.3	38°01.6'	56.5	37°53.2'	90.3	45°51.1'	181.1	45°50.3'	239.9	26°25.9'	288.2	42°02.1'	331.9
27	53°06.5'	07.8	38°50.2'	55.9	38°51.7'	90.1	45°49.6'	181.9	45°49.2'	240.2	25°30.3'	287.9	41°33.2'	330.9
28	53°13.6'	06.2	39°38.4'	55.2	39°50.2'	89.9	45°47.3'	182.6	45°47.2'	240.5	24°34.6'	287.5	41°04.3'	329.9
29	53°19.2'	04.7	40°26.2'	54.5	40°48.6'	89.6	45°44.2'	183.4	45°45.1'	240.8	23°38.8'	287.0	40°34.6'	329.0
30	16°05.6'	33.4	27°53.2'	74.2	22°08.7'	103.2	22°43.1'	142.4	45°40.4'	184.2	45°00.0'	241.0	40°04.1'	328.0
31	16°37.3'	32.9	28°49.4'	73.9	22°05.6'	103.0	22°51.8'	142.6	45°35.7'	184.9	44°08.8'	241.3	39°32.8'	327.1
32	17°09.1'	32.4	29°45.5'	73.5	22°02.6'	102.9	23°00.3'	142.8	45°30.3'	185.7	43°17.5'	241.5	39°00.7'	326.2
33	17°40.2'	31.9	30°41.3'	73.1	22°00.6'	102.8	23°08.9'	143.0	45°24.1'	186.5	42°26.0'	241.7	38°27.8'	325.4
34	18°10.9'	31.4	31°37.3'	72.7	22°00.6'	102.6	23°17.4'	143.0	45°17.1'	187.2	41°34.5'	241.9	37°54.2'	324.5
35	18°41.2'	30.9	32°33.1'	72.3	22°00.6'	102.5	23°25.9'	143.0	45°09.4'	188.0	40°42.9'	242.1	37°19.9'	323.7
36	19°11.1'	30.4	33°28.8'	71.9	22°00.6'	102.4	23°34.4'	143.0	45°00.0'	188.7	39°51.5'	242.2	36°46.5'	322.9
37	19°40.4'	29.9	34°24.2'	71.4	22°00.6'	102.3	23°42.9'	143.0	44°51.6'	189.5	38°59.4'	242.3	36°09.4'	322.1
38	20°09.4'	29.4	35°19.6'	71.0	22°00.6'	102.2	23°51.4'	143.0	44°41.7'	190.2	38°07.6'	242.5	35°33.1'	321.3
39	20°37.8'	28.8	36°14.8'	70.5	22°00.6'	102.1	24°00.0'	143.0	44°31.1'	190.9	37°15.7'	242.6	34°56.3'	320.5
40	21°05.8'	28.3	37°09.7'	70.0	22°00.6'	102.0	24°08.5'	143.0	44°19.6'	191.6	36°23.8'	242.7	34°18.8'	319.8
41	21°33.2'	27.7	38°04.7'	69.6	22°00.6'	101.9	24°17.1'	143.0	44°07.5'	192.3	35°31.3'	242.8	33°40.8'	319.1
42	22°00.1'	27.2	38°59.4'	69.1	22°00.6'	101.8	24°25.6'	143.0	43°54.6'	193.0	34°39.7'	242.9	33°02.2'	318.4
43	22°26.6'	26.6	39°53.9'	68.6	22°00.6'	101.7	24°34.1'	143.0	43°41.1'	193.7	33°47.7'	243.0	32°23.1'	317.7
44	22°52.5'	26.0	40°48.2'	68.0	22°00.6'	101.6	24°42.6'	143.0	43°27.0'	194.4	32°55.6'	243.1	31°43.5'	317.0
45	23°17.8'	25.4	41°42.3'	67.5	22°00.6'	101.5	24°51.1'	143.0	43°12.1'	195.0	32°03.0'	243.1	31°03.4'	316.3
46	23°42.6'	24.8	42°36.2'	66.9	22°00.6'	101.4	25°00.0'	143.0	42°56.7'	195.7	31°11.3'	243.2	30°22.8'	315.7
47	24°06.8'	24.2	43°29.9'	66.3	22°00.6'	101.3	25°08.5'	143.0	42°40.0'	196.3	30°19.1'	243.2	29°41.8'	315.1
48	24°30.4'	23.5	44°23.3'	65.7	22°00.6'	101.2	25°17.1'	143.0	42°23.8'	197.0	29°26.6'	243.2	29°00.0'	314.5
49	24°53.5'	22.9	45°16.4'	65.1	22°00.6'	101.1	25°25.6'	143.0	42°06.4'	197.6	28°34.4'	243.3	28°18.3'	313.9
50	25°15.9'	22.2	46°09.3'	64.4	22°00.6'	101.0	25°34.1'	143.0	41°48.5'	198.2	27°42.5'	243.3	27°36.0'	313.3
51	25°37.7'	21.6	47°01.9'	63.8	22°00.6'	100.9	25°42.6'	143.0	41°29.9'	198.8	26°50.3'	243.3	26°53.2'	312.7
52	25°58.9'	21.0	47°54.2'	63.2	22°00.6'	100.8	25°51.1'	143.0	41°10.8'	199.4	25°58.1'	243.3	26°10.1'	312.2
53	26°19.5'	20.4	48°46.1'	62.6	22°00.6'	100.7	26°00.0'	143.0	40°51.2'	199.9	25°05.8'	243.2	25°26.6'	311.6
54	26°39.4'	19.8	49°37.7'	62.0	22°00.6'	100.6	26°08.5'	143.0	40°31.0'	200.5	24°13.6'	243.2	24°42.7'	311.1
55	26°58.7'	19.2	50°29.0'	61.4	22°00.6'	100.5	26°17.1'	143.0	40°10.2'	201.1	23°21.5'	243.2	23°58.5'	310.6
56	27°17.3'	18.5	51°19.8'	60.8	22°00.6'	100.4	26°25.6'	143.0	39°49.0'	201.7	22°29.3'	243.2	23°13.9'	310.1
57	27°35.2'	17.8	52°10.2'	60.2	22°00.6'	100.3	26°34.1'	143.0	39°27.2'	202.2	21°37.1'	243.3	22°29.9'	309.6
58	27°52.4'	17.2	53°00.9'	59.6	22°00.6'	100.2	26°42.6'	143.0	39°05.0'	202.8	20°45.0'	243.2	21°43.8'	309.1
59	28°08.9'	16.6	53°49.6'	59.0	22°00.6'	100.1	26°51.1'	143.0	38°42.2'	203.4	19°52.9'	243.0	20°58.3'	308.7
60	28°24.7'	16.0	54°38.3'	58.4	22°00.6'	100.0	27°00.0'	143.0	38°20.0'	204.0	19°00.0'	243.0	20°14.0'	308.0
61	28°39.8'	15.4	55°27.0'	57.8	22°00.6'	99.9	27°08.5'	143.0	37°57.5'	204.6	18°07.5'	243.0	19°29.5'	307.5
62	28°54.1'	14.8	56°15.7'	57.2	22°00.6'	99.8	27°17.1'	143.0	37°34.9'	205.2	17°15.1'	243.0	18°45.1'	307.0
63	29°07.7'	14.2	57°04.4'	56.6	22°00.6'	99.7	27°25.6'	143.0	37°12.4'	205.8	16°22.6'	243.0	18°02.6'	306.5
64	29°20.6'	13.6	57°53.1'	56.0	22°00.6'	99.6	27°34.1'	143.0	36°50.0'	206.4	15°30.1'	243.0	17°20.1'	306.0
65	29°32.7'	13.0	58°41.8'	55.4	22°00.6'	99.5	27°42.6'	143.0	36°27.5'	207.0	14°37.6'	243.0	16°37.6'	305.5
66	29°44.0'	12.4	59°30.5'	54.8	22°00.6'	99.4	27°51.1'	143.0	36°05.0'	207.6	13°45.1'	243.0	15°55.1'	305.0
67	29°54.6'	11.8	60°19.2'	54.2	22°00.6'									

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
0	*Alpheratz	03.0	41°04.2'	40.2	15°05.5'	68.2	12°14.6'	95.4	42°59.5'	162.0	69°00.1'	219.9	48°51.6'	303.8
1	46°46.7'	01.7	41°41.4'	39.3	15°59.5'	67.9	13°39.6'	95.2	43°17.2'	162.6	68°22.0'	221.5	48°03.0'	303.0
2	46°47.8'	00.5	42°17.9'	38.4	16°15.3'	67.1	14°37.3'	95.0	43°34.3'	163.3	67°42.8'	223.1	47°13.9'	302.2
3	46°47.7'	359.2	42°53.7'	37.1	17°14.7'	67.1	15°36.6'	94.7	43°50.7'	163.9	67°02.5'	223.4	46°24.4'	301.4
4	46°46.6'	357.9	43°28.7'	36.5	18°40.6'	66.8	16°33.6'	94.4	44°06.5'	164.6	66°21.2'	225.9	45°34.5'	300.6
5	46°43.4'	356.6	44°02.9'	35.5	19°34.1'	66.4	17°31.6'	94.3	44°21.7'	165.2	65°39.0'	227.1	44°44.4'	299.9
6	46°39.3'	355.4	44°36.3'	34.5	20°27.3'	66.1	18°29.7'	94.1	44°36.2'	165.9	64°56.0'	228.3	43°53.6'	299.2
7	46°34.0'	354.1	45°08.8'	33.4	21°20.4'	65.6	19°20.7'	93.9	44°50.0'	166.6	64°12.1'	229.4	43°02.6'	298.5
8	46°27.4'	352.8	45°40.4'	32.4	22°12.4'	65.1	20°25.9'	93.9	45°03.2'	167.3	63°27.1'	230.4	42°11.3'	297.8
9	46°19.5'	351.6	46°11.1'	31.3	23°06.2'	64.8	21°24.0'	93.4	45°15.6'	168.0	62°42.4'	231.4	41°19.6'	297.2
10	46°10.3'	350.3	46°40.9'	30.3	23°58.8'	64.4	22°22.1'	93.2	45°27.3'	168.7	61°56.6'	232.3	40°27.7'	296.6
11	45°60.0'	349.1	47°09.6'	29.0	24°51.2'	64.0	23°20.2'	93.0	45°38.3'	169.5	61°10.3'	233.1	39°35.5'	296.0
12	45°48.4'	347.9	47°37.2'	27.9	25°43.4'	63.5	24°18.4'	92.8	45°48.3'	170.2	60°23.5'	233.9	38°43.3'	295.4
13	45°35.5'	346.7	48°03.9'	26.6	26°35.4'	63.1	25°16.5'	92.5	45°58.1'	171.0	59°36.2'	234.1	37°50.3'	294.8
14	45°21.5'	345.5	48°29.5'	25.4	27°27.2'	62.6	26°14.7'	92.3	46°06.9'	171.7	58°48.5'	235.4	36°57.3'	294.3
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LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
90	POLLUX	31.5	23°00.1'	70.4	40°09.1'	135.9	50°59.3'	174.1	24°59.6'	213.9	53°13.4'	325.5	29°14.7'	351.7
91	41°13.7'	30.5	23°54.9'	70.0	40°49.5'	136.2	51°04.8'	175.1	24°27.8'	213.1	52°39.8'	324.2	29°05.9'	350.9
92	41°14.2'	29.5	24°49.5'	69.6	41°29.6'	136.6	51°09.3'	176.0	23°56.0'	213.2	52°05.2'	322.9	28°56.3'	350.1
93	42°11.1'	28.5	25°44.0'	69.2	42°09.5'	137.0	51°12.8'	177.0	23°24.0'	213.3	51°29.7'	321.7	28°46.4'	349.4
94	42°38.5'	27.5	26°38.3'	68.8	42°49.0'	137.4	51°15.4'	178.0	22°52.0'	213.5	50°53.1'	320.5	28°34.8'	348.6
95	43°04.9'	26.5	27°32.5'	68.3	43°28.3'	137.9	51°17.5'	179.0	22°19.0'	213.5	50°15.6'	319.4	28°23.0'	347.9
96	43°30.4'	25.4	28°26.5'	67.9	44°07.1'	138.3	51°17.5'	179.9	21°47.6'	213.6	49°37.3'	318.3	28°10.4'	347.1
97	43°54.6'	24.3	29°20.4'	67.6	44°45.7'	138.8	51°17.1'	180.9	21°15.3'	213.7	48°58.2'	317.2	27°57.6'	346.4
98	44°18.3'	23.2	30°14.1'	67.0	45°23.9'	139.3	51°15.8'	181.0	20°43.3'	213.8	48°18.1'	316.2	27°42.9'	345.6
99	44°40.8'	22.1	31°07.6'	66.6	46°01.7'	139.8	51°13.4'	182.0	20°10.6'	213.8	47°37.5'	315.1	27°28.1'	344.9
100	45°02.2'	21.0	32°00.9'	66.1	46°39.0'	140.3	51°10.1'	183.0	19°38.2'	213.9	46°56.1'	314.2	27°12.5'	344.2

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
0	*Alpheratz	Hamal	*RIGEL	*FOMALHAUT	*Enif									
0	45°44.4'	02.9	40°18.2'	39.7	14°43.1'	68.0	12°47.1'	95.2	43°56.5'	161.7	69°45.5'	221.6	48°17.8'	304.8
1	45°46.8'	01.7	40°54.8'	38.8	15°36.7'	67.6	13°44.9'	94.9	44°14.4'	162.3	69°06.3'	223.3	47°30.0'	303.9
2	45°47.8'	00.4	41°30.7'	37.8	16°30.2'	67.2	14°42.6'	94.7	44°31.7'	163.0	68°26.1'	224.8	46°41.6'	303.1
3	45°47.7'	359.2	42°05.9'	36.9	17°23.6'	66.9	15°40.4'	94.5	44°48.3'	163.6	67°44.7'	226.2	45°52.8'	304.9
4	45°46.4'	357.9	42°40.3'	35.9	18°16.8'	66.5	16°38.2'	94.2	45°04.3'	164.3	67°02.2'	227.5	45°03.0'	301.5
5	45°43.5'	356.7	43°13.9'	34.9	19°09.6'	66.1	17°36.0'	94.0	45°19.7'	165.0	66°19.2'	228.8	44°14.0'	300.7
6	45°39.5'	356.4	43°46.7'	33.9	20°02.8'	65.7	18°33.8'	93.7	45°34.4'	165.7	65°35.2'	229.9	43°24.0'	300.0
7	45°34.3'	354.2	44°18.6'	32.9	20°55.5'	65.3	19°31.6'	93.5	45°48.4'	166.4	64°50.5'	231.0	42°33.3'	299.3
8	45°27.8'	353.0	44°49.6'	31.8	21°48.1'	64.9	20°29.5'	93.3	46°01.7'	167.1	64°05.5'	232.0	41°42.9'	298.6
9	45°20.1'	351.7	45°19.7'	30.7	22°40.5'	64.4	21°27.4'	93.0	46°14.3'	167.8	63°19.2'	232.9	40°51.8'	298.0
10	45°11.1'	350.5	45°48.8'	29.6	23°32.6'	64.0	22°25.2'	92.8	46°26.1'	168.5	62°32.7'	233.8	40°00.5'	297.3
11	45°01.0'	349.3	46°17.0'	28.5	24°24.6'	63.6	23°23.1'	92.6	46°37.3'	169.3	61°45.7'	234.6	39°08.9'	296.6
12	44°49.7'	348.1	46°44.1'	27.3	25°16.4'	63.3	24°21.0'	92.3	46°47.7'	170.0	60°58.2'	235.4	38°16.9'	295.1
13	44°37.1'	346.9	47°10.2'	26.1	26°08.6'	62.9	25°19.0'	92.1	46°57.4'	170.8	60°10.3'	236.1	37°24.8'	294.5
14	44°23.4'	345.7	47°35.2'	24.9	26°59.3'	62.5	26°16.9'	91.8	47°06.2'	171.6	59°22.0'	236.7	36°32.3'	294.9
15	44°09.1'	344.5	48°00.3'	23.7	27°50.5'	62.1	27°14.8'	91.6	47°14.4'	172.3	58°33.4'	237.4	35°39.7'	294.4
16	44°01.8'	343.3	48°25.4'	22.5	28°41.3'	61.7	28°12.7'	91.3	47°21.7'	173.1	57°44.4'	237.9	34°46.8'	294.0
17	44°03.3'	342.1	48°50.5'	21.3	29°32.0'	61.0	29°10.7'	91.1	47°28.3'	173.9	56°55.2'	238.5	33°53.5'	294.3
18	44°03.7'	341.0	49°03.2'	20.1	30°22.3'	60.3	30°08.6'	90.8	47°34.0'	174.7	56°05.7'	239.0	33°00.3'	294.1
19	44°02.8'	340.0	49°16.3'	18.9	31°12.4'	59.5	31°06.6'	90.6	47°39.0'	175.5	55°15.9'	239.4	32°06.8'	294.0
20	44°02.0'	339.0	49°29.4'	17.7	32°02.5'	58.7	32°04.6'	90.3	47°43.2'	176.3	54°25.9'	239.9	31°13.1'	293.9
21	44°01.3'	338.0	49°42.5'	16.5	32°52.6'	58.0	33°02.7'	90.1	47°47.4'	177.1	53°35.7'	240.3	30°19.2'	293.8
22	44°00.6'	337.0	49°55.6'	15.3	33°42.7'	57.2	34°00.8'	89.8	47°51.1'	177.9	52°45.2'	240.6	29°25.2'	293.7
23	44°00.0'	336.0	50°08.7'	14.1	34°32.8'	56.4	34°58.9'	89.5	47°54.8'	178.7	51°54.6'	241.0	28°30.3'	293.6
24	43°59.4'	335.0	50°21.8'	12.9	35°22.9'	55.6	35°57.0'	89.2	47°58.5'	179.5	51°03.9'	241.3	27°35.6'	293.5
25	43°58.8'	334.0	50°34.9'	11.7	36°13.0'	54.8	36°45.1'	88.9	48°02.2'	180.3	50°13.0'	241.6	26°40.9'	293.4
26	43°58.2'	333.0	50°48.0'	10.5	37°03.1'	54.0	37°33.2'	88.6	48°05.9'	181.1	49°21.9'	241.9	25°46.2'	293.3
27	43°57.6'	332.0	50°61.1'	9.3	37°53.2'	53.2	38°21.3'	88.3	48°09.6'	181.9	48°30.7'	242.2	24°51.5'	293.2
28	43°57.0'	331.0	50°74.2'	8.1	38°43.3'	52.4	39°09.4'	88.0	48°13.3'	182.7	47°39.6'	242.5	23°56.8'	293.1
29	43°56.4'	330.0	50°87.3'	6.9	39°33.4'	51.6	39°97.5'	87.7	48°17.0'	183.5	46°48.0'	242.8	23°02.1'	293.0
30	43°55.8'	329.0	51°00.4'	5.7	40°23.5'	50.8	40°85.6'	87.4	48°20.7'	184.3	45°56.5'	243.1	22°07.4'	292.9
31	43°55.2'	328.0	51°13.5'	4.5	41°13.6'	50.0	41°73.7'	87.1	48°24.4'	185.1	45°04.9'	243.4	21°12.7'	292.8
32	43°54.6'	327.0	51°26.6'	3.3	42°03.7'	49.2	42°61.8'	86.8	48°28.1'	185.9	44°13.2'	243.7	20°18.0'	292.7
33	43°54.0'	326.0	51°39.7'	2.1	42°53.8'	48.4	43°50.0'	86.5	48°31.8'	186.7	43°21.6'	244.0	19°23.3'	292.6
34	43°53.4'	325.0	51°52.8'	0.9	43°43.9'	47.6	44°38.1'	86.2	48°35.5'	187.5	42°30.0'	244.3	18°28.6'	292.5
35	43°52.8'	324.0	52°06.0'	0.0	44°34.0'	46.8	45°26.2'	85.9	48°39.2'	188.3	41°38.4'	244.6	17°33.9'	292.4
36	43°52.2'	323.0	52°19.1'	0.0	45°24.1'	46.0	46°14.3'	85.6	48°42.9'	189.1	40°46.8'	244.9	16°39.2'	292.3
37	43°51.6'	322.0	52°32.2'	0.0	46°14.2'	45.2	47°02.4'	85.3	48°46.6'	189.9	39°55.2'	245.2	15°44.5'	292.2
38	43°51.0'	321.0	52°45.3'	0.0	47°04.3'	44.4	47°50.5'	85.0	48°50.3'	190.7	39°03.6'	245.5	14°49.8'	292.1
39	43°50.4'	320.0	52°58.4'	0.0	47°54.4'	43.6	48°38.6'	84.7	48°54.0'	191.5	38°12.0'	245.8	13°55.1'	292.0
40	43°49.8'	319.0	53°11.5'	0.0	48°44.5'	42.8	49°26.7'	84.4	48°57.7'	192.3	37°20.4'	246.1	13°00.4'	291.9
41	43°49.2'	318.0	53°24.6'	0.0	49°34.6'	42.0	50°14.8'	84.1	49°01.4'	193.1	36°28.8'	246.4	12°05.7'	291.8
42	43°48.6'	317.0	53°37.7'	0.0	50°24.7'	41.2	51°02.9'	83.8	49°05.1'	193.9	35°37.2'	246.7	11°11.0'	291.7
43	43°48.0'	316.0	53°50.8'	0.0	51°14.8'	40.4	51°51.0'	83.5	49°08.8'	194.7	34°45.6'	247.0	10°16.3'	291.6
44	43°47.4'	315.0	54°03.9'	0.0	52°04.9'	39.6	52°39.1'	83.2	49°12.5'	195.5	33°54.0'	247.3	9°21.6'	291.5
45	43°46.8'	314.0	54°17.0'	0.0	52°55.0'	38.8	53°27.2'	82.9	49°16.2'	196.3	33°02.4'	247.6	8°26.9'	291.4
46	43°46.2'	313.0	54°30.1'	0.0	53°45.1'	38.0	54°15.3'	82.6	49°19.9'	197.1	32°10.8'	247.9	7°32.2'	291.3
47	43°45.6'	312.0	54°43.2'	0.0	54°35.2'	37.2	55°03.4'	82.3	49°23.6'	197.9	31°19.2'	248.2	6°37.5'	291.2
48	43°45.0'	311.0	54°56.3'	0.0	55°25.3'	36.4	55°51.5'	82.0	49°27.3'	198.7	30°27.6'	248.5	5°42.8'	291.1
49	43°44.4'	310.0	55°08.4'	0.0	56°15.4'	35.6	56°39.6'	81.7	49°31.0'	199.5	29°36.0'	248.8	4°48.1'	291.0
50	43°43.8'	309.0	55°21.5'	0.0	57°05.5'	34.8	57°27.7'	81.4	49°34.7'	200.3	28°44.4'	249.1	3°53.4'	290.9
51	43°43.2'	308.0	55°34.6'	0.0	57°55.6'	34.0	58°15.8'	81.1	49°38.4'	201.1	27°52.8'	249.4	2°58.7'	290.8
52	43°42.6'	307.0	55°47.7'	0.0	58°45.7'	33.2	59°03.9'	80.8	49°42.1'	201.9	27°01.2'	249.7	1°64.0'	290.7
53	43°42.0'	306.0	55°60.8'	0.0	59°36.0'	32.4	59°52.0'	80.5	49°45.8'	202.7	26°09.6'	250.0	0°69.3'	290.6
54	43°41.4'	305.0	55°73.9'	0.0	60°26.1'	31.6	60°40.1'	80.2	49°49.5'	203.5	25°18.0'	250.3	0°00.0'	290.5
55	43°40.8'	304.0	55°87.0'	0.0	61°16.2'	30.8	61°28.2'	79.9	49°53.2'	204.3	24°26.4'	250.6	-0°28.8'	290.4
56	43°40.2'	303.0	56°00.1'	0.0	62°06.3'	30.0	62°16.3'	79.6	49°56.9'	205.1	23°34.8'	250.9	-1°00.0'	290.3
57	43°39.6'	302.0	56°13.2'	0.0	62°54.4'	29.2	63°04.4'	79.3	49°60.6'	205.9	22°43.2'	251.2	-1°31.2'	290.2
58	43°39.0'	301.0	56°26.3'	0.0	63°42.5'	28.4	63°52.5'	79.0	49°64.3'	206.7	21°51.6'	251.5	-2°02.4'	290.1
59	43°38.4'	300.0	56°39.4'	0.0	64°30.6'	27.6	64°40.6'	78.7	49°68.0'	207.5	20°59.9'	251.8	-2°33.6'	290.0
60	43°37.8'	299.0	56°52.5'	0.0	65°18.7'	26.8	65°28.7'	78.4	49°71.7'	208.3	19°68.3'	252.1	-3°04.8'	289.9
61	43°37.2'	298.0	57°05.6'	0.0	66°06.8'	26.0	66°16.8'	78.1	49°75.4'	209.1	18°76.6'	252.4	-3°36.0'	289.8
62	43°36.6'	297.0	57°18.7'	0.0	66°54.9'	25.2	67°04.9'	77.8	49°79.1'	209.9	17°84.9'	252.7	-4°07.2'	289.7
63	43°36.0'	296.0	57°31.8'	0.0	67°43.0'	24.4	67°53.0'	77.5	49°82.8'	210.7	16°93.2'	253.0	-4°38.4'	289.6
64	43°35.4'	295.0	57°44.9'	0.0	68°31.1'	23.6	68°41.1'	77.2	49°86.5'	211.5	16°01.5'	253.3	-5°09.6'	289.5
65	43°34.8'	294.0	57°58.0'	0.0	69°19.2'	22.8	69°29.2'	76.9	49°90.2'	212.3	15°09.8'	253.6	-5°40.8'	289.4
66	43°34.2'	293.0	58°11.1'	0.0	70°07.3'	22.0	70°17.3'	76.6	49°93.9'	213.1	14°18.1'	253.9	-6°12.0'	289.3
67	43°33.6'	292.0	58°24.2'	0.0	70°									

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
180	42°07.0'	45.7	26°21.7'	112.5	41°32.8'	175.8	43°47.5'	223.1	52°28.7'	275.2	51°38.6'	313.0	60°26.3'	355.1
181	42°49.1'	44.8	27°15.3'	112.4	41°36.7'	176.4	43°07.8'	223.5	51°31.0'	274.8	50°55.9'	311.9	60°20.4'	353.2
182	43°29.6'	43.9	28°08.9'	112.3	41°40.0'	177.0	42°27.8'	223.9	50°33.2'	274.5	50°12.4'	310.9	60°12.5'	351.2
183	44°09.4'	42.9	29°05.2'	112.3	41°42.7'	177.6	41°47.5'	223.9	49°35.4'	274.1	49°28.2'	309.9	60°02.7'	349.3
184	44°48.5'	42.0	29°56.1'	112.2	41°44.8'	178.2	41°06.6'	224.6	48°37.6'	273.8	48°43.4'	308.9	59°59.1'	347.4
185	45°26.9'	41.0	30°49.8'	112.2	41°46.3'	178.8	40°26.1'	224.9	47°39.8'	273.5	47°58.0'	308.0	59°53.5'	345.6
186	46°04.6'	40.0	31°43.5'	112.1	41°47.2'	179.4	39°45.1'	225.2	46°41.9'	273.1	47°12.1'	307.1	59°47.2'	343.7
187	46°41.4'	38.9	32°37.1'	112.1	41°47.4'	180.0	39°03.8'	225.5	45°44.0'	272.8	46°25.5'	306.2	59°40.5'	341.9
188	47°17.4'	37.9	33°30.3'	112.1	41°47.1'	180.8	38°22.2'	225.8	44°46.1'	272.5	45°38.6'	305.4	59°34.6'	340.1
189	47°52.6'	36.8	34°24.5'	112.1	41°46.1'	181.2	37°40.7'	226.1	43°48.2'	272.2	44°51.0'	304.5	59°28.7'	338.4
190	48°26.8'	35.6	35°18.2'	112.1	41°44.5'	181.9	36°58.9'	226.3	42°50.3'	271.9	44°03.0'	303.7	59°22.8'	336.7
191	49°00.1'	34.5	36°12.0'	112.1	41°42.4'	182.6	36°16.9'	226.6	41°52.4'	271.6	43°14.6'	303.0	59°17.0'	335.0
192	49°32.4'	33.3	37°05.7'	112.1	41°39.6'	183.1	35°34.8'	226.8	40°54.5'	271.4	42°25.8'	302.2	59°11.7'	333.4
193	50°03.7'	32.1	37°53.0'	112.1	41°36.2'	183.7	34°52.4'	227.0	39°56.5'	271.1	41°36.6'	301.5	59°06.4'	331.8
194	50°34.0'	30.8	38°53.0'	112.1	41°32.2'	184.2	34°10.0'	227.2	38°58.6'	270.8	40°47.0'	300.8	59°00.0'	330.3

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
270	35°28.9'	09.0	53°24.4'	50.9	90°20'27.4"	116.4	39°52'9.5"	154.6	31°58'4.4"	205.9	66°13.3'	237.6	25°19.5'	300.1
271	35°37.5'	08.1	54°09.1'	49.8	21°19.3'	116.3	40°17.6'	155.1	31°33.0'	206.2	65°24.2'	238.4	24°29.3'	299.6
272	35°45.2'	07.1	54°53.0'	48.7	22°11.3'	116.2	40°41.8'	155.6	31°07.3'	206.5	64°34.6'	239.2	23°38.8'	299.1
273	35°51.9'	06.2	55°36.1'	47.5	23°03.3'	116.1	41°05.5'	156.1	30°40.3'	206.9	63°44.0'	240.0	22°48.0'	298.7
274	35°57.6'	05.2	56°18.4'	46.3	23°55.4'	116.0	41°28.8'	156.6	30°15.1'	207.0	62°54.2'	240.7	21°57.1'	298.2
275	36°02.2'	04.2	56°59.8'	45.0	24°47.5'	116.0	41°51.6'	157.1	29°48.7'	207.2	62°03.5'	241.2	21°05.9'	297.8
276	36°06.2'	03.3	57°40.3'	43.6	25°39.6'	115.9	42°13.8'	157.7	29°22.1'	207.5	61°12.5'	241.9	20°14.5'	297.4
277	36°09.0'	02.3	58°19.8'	42.3	26°31.7'	115.9	42°36.3'	158.2	28°55.3'	207.7	60°21.3'	242.5	19°23.0'	296.9
278	36°11.7'	01.5	58°58.3'	40.8	27°23.9'	115.8	42°56.8'	158.8	28°28.2'	207.9	59°29.9'	243.0	18°31.1'	296.5
279	36°11.7'	00.4	59°35.6'	39.3	28°16.1'	115.8	43°17.5'	159.4	28°01.1'	208.1	58°38.0'	243.4	17°39.3'	296.1
280	36°11.7'	359.4	60°11.7'	37.7	29°08.3'	115.8	43°37.7'	160.0	27°33.7'	208.3	57°46.1'	243.9	16°47.1'	295.7
281	36°10.0'	34.5	60°46.5'	36.1	30°00.5'	115.7	43°57.2'	160.6	27°06.2'	208.5	56°54.0'	244.3	15°54.9'	295.4
282	36°08.6'	33.7	61°20.0'	34.3	30°52.7'	115.7	44°16.2'	161.2	26°38.5'	208.6	56°01.7'	244.6	15°02.4'	295.0
283	36°05.5'	32.6	61°52.0'	32.7	31°44.9'	115.7	44°34.6'	161.9	26°10.6'	208.8	55°09.2'	245.0	14°09.8'	294.6
284	36°01.5'	31.5	62°22.5'	30.9	32°37.1'	115.7	44°52.2'	162.5	25°42.7'	208.9	54°16.6'	245.3	13°17.0'	294.3

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
195	51°03.1'	29.5	16°23.5'	71.7	39°46.7'	112.2	41°27.6'	184.8	33°27.4'	227.4	39°57.1'	200.1	15°56.0'	328.8
196	51°31.1'	28.1	17°18.4'	71.4	40°40.4'	112.2	41°22.4'	185.4	32°44.7'	227.5	39°06.8'	299.5	15°20.0'	327.3
197	51°57.9'	26.9	18°13.3'	71.0	41°34.0'	112.3	41°16.6'	186.0	32°01.9'	227.7	38°16.2'	298.9	14°48.1'	325.9
198	52°23.5'	25.5	19°08.1'	70.7	42°27.6'	112.4	41°10.3'	186.6	31°19.0'	227.8	37°25.3'	298.2	14°15.1'	324.6
199	52°47.8'	24.1	20°02.7'	70.3	43°21.2'	112.4	41°03.3'	187.2	30°36.0'	228.0	36°33.4'	297.5	13°42.0'	323.0
200	53°10.3'	22.7	20°57.5'	69.4	44°14.8'	112.4	40°55.8'	187.8	29°52.9'	228.1	35°42.4'	296.7	13°05.0'	321.9
201	53°32.5'	21.2	21°51.2'	68.5	45°08.3'	112.5	40°47.7'	188.3	29°09.8'	228.2	34°50.8'	296.5	12°29.5'	320.9
202	53°52.8'	19.7	22°45.8'	67.1	46°01.7'	112.8	40°39.0'	188.9	28°26.6'	228.3	33°58.8'	295.9	11°52.3'	319.5
203	54°11.6'	18.2	23°39.8'	65.7	46°55.2'	112.9	40°29.8'	189.4	27°43.3'	228.4	33°06.6'	295.4	11°14.2'	318.3
204	54°28.9'	16.7	24°33.8'	64.3	47°48.1'	113.0	40°20.9'	190.0	26°59.9'	228.4	32°14.1'	294.9	10°35.2'	317.2
205	54°44.8'	15.1	25°27.5'	62.9	48°41.8'	113.2	40°09.7'	190.5	26°16.5'	228.5	31°21.5'	294.4	9°55.3'	316.1
206	54°59.1'	13.5	26°21.1'	61.4	49°35.0'	113.4	39°58.8'	191.1	25°33.1'	228.5	30°28.6'	293.9	9°14.7'	315.0
207	55°11.8'	11.9	27°14.6'	60.0	50°28.2'	113.4	39°47.4'	191.6	24°49.7'	228.6	29°35.8'	293.4	8°34.0'	314.0
208	55°23.0'	10.3	28°07.0'	58.5	51°21.2'	113.8	39°35.5'	192.1	24°06.2'	228.6	28°42.7'	292.9	7°51.3'	312.9
209	55°32.5'	08.6	29°00.9'	56.1	52°14.2'	114.1	39°23.0'	192.7	23°22.7'	228.6	27°48.2'	292.5	6°47'08.5"	312.0

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
285	25°21.9'	19.6	33°29.3'	115.7	45°09.3'	163.2	25°14.5'	209.1	15°32'3.9"	245.6	55°28.0'	321.8	35°56.6'	354.6
286	25°41.0'	18.3	34°21.5'	115.8	45°25.8'	163.9	24°46.3'	209.2	15°25'31.1"	245.9	54°51.7'	320.5	35°50.7'	353.7
287	25°59.5'	17.2	35°13.7'	115.8	45°41.6'	164.5	24°18.0'	209.3	15°18'38.1"	246.1	54°14.3'	319.2	35°43.8'	352.7
288	26°17.2'	15.7	36°05.9'	115.8	45°56.7'	165.2	23°49.5'	209.5	15°10'55.0"	246.3	53°35.9'	317.9	35°36.0'	351.8
289	26°34.3'	14.3	36°58.5'	115.9	46°11.1'	166.0	23°21.0'	209.6	14°59'42.0"	246.5	52°56.7'	316.7	35°27.2'	350.8
290	26°50.6'	13.0	37°50.1'	116.0	46°24.8'	166.7	22°52.5'	209.7	14°48'58.5"	246.6	52°16.5'	315.6	35°17.5'	349.9
291	27°06.3'	11.5	38°42.2'	116.0	46°37.8'	167.4	22°23.6'	209.8	14°38'05.8"	246.9	51°35.5'	314.5	35°06.8'	349.0
292	27°21.2'	10.0	39°34.3'	116.1	46°50.1'	168.2	21°54.8'	209.8	14°27'12.2"	247.1	50°53.7'	313.3	34°55.3'	348.0
293	27°35.4'	8.8	40°26.3'	116.2	47°01.6'	168.9	21°25.9'	209.9	14°16'18.8"	247.2	50°11.1'	312.2	34°42.8'	347.1
294	27°48.9'	7.7	41°18.3'	116.3	47°12.3'	169.7	20°57.0'	210.0	14°05'25.3"	247.3	49°28.0'	311.3	34°29.4'	346.2
295	28°01.6'	6.6	42°10.2'	116.5	47°22.4'	170.4	20°28.0'	210.0	13°54'31.8"	247.4	48°44.1'	310.3	34°15.2'	345.3
296	28°13.6'	5.5	43°02.0'	116.6	47°31.6'	171.2	19°59.0'	210.1	13°43'38.3"	247.5	47°59.6'	309.3	34°00.1'	344.4
297	28°24.8'	4.4	43°53.8'	116.7	47°40.0'	172.0	19°29.9'	210.1	13°32'44.7"	247.6	47°14.4'	308.4	33°44.1'	343.5
298	28°35.2'	3.3	44°45.6'	116.9	47°47.7'	172.8	19°00.8'	210.2	13°21'51.1"	247.7	46°28.7'	307.5	33°27.2'	342.7
299	28°44.9'	2.2	45°37.2'	117.1	47°54.5'	173.6	18°31.7'	210.2	13°10'57.5"	247.8	45°42.5'	306.6	33°09.6'	341.8

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
210	55°40.3'	07.0	29°53.8'	65.6	53°07.1'	114.3	43°29.3'	173.2	39°10.1'	193.2	65°07.7'	260.3	26°55.1'	292.0
211	55°46.5'	05.3	30°46.4'	65.1	53°59.8'	114.6	43°35.9'	173.8	38°56.6'	193.7	64°10.5'	260.4	26°42.0'	291.6
212	55°51.0'	03.6	31°38.9'	64.6	54°52.5'	114.9	43°41.8'	174.3	38°42.7'	194.2	63°13.4'	260.5	26°29.1'	291.1
213	55°53.8'	01.9	32°31.1'	64.1	55°44.9'	115.2	43°47.1'	175.1	38°28.3'	194.7	62°16.2'	260.6	26°14.3'	290.7
214	55°54.9'	00.2	33°23.1'	63.5	56°37.3'	115.6	43°51.7'	175.8	38°13.4'	195.1	61°19.1'	260.6	25°59.3'	290.3
215	55°54.3'	358.6	34°14.9'	63.0	57°29.5'	116.0	43°55.6'	176.5	37°58.0'	195.6	60°21.9'	260.6	25°42.5'	289.9
216	55°52.0'	356.9	35°06.3'	62.4	58°21.5'	116.4	43°58.8'	177.1	37°42.2'	196.1	59°24.9'	260.6	25°25.9'	289.5
217	55°48.0'	355.2	35°57.6'	61.8	59°13.3'	116.9	44°01.4'	177.8	37°25.9'	196.5	58°27.5'	260.6	25°09.2'	289.2
218	55°42.3'	353.5	36°48.5'	61.2										

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
0	*Alpheratz	02.9	39°31.8'	39.1	14°20.4'	67.7	12°52.4'	95.0	44°53.4'	161.4	33°08.6'	211.7	47°43.2'	305.7
1	44°46.8'	01.7	40°07.9'	38.2	15°13.7'	67.3	13°49.9'	94.7	45°11.5'	162.0	32°38.2'	212.0	46°56.1'	304.8
2	44°47.8'	00.4	40°43.2'	37.3	16°06.9'	67.0	14°47.4'	94.4	45°29.0'	162.7	32°07.2'	212.6	46°08.5'	303.9
3	44°47.7'	359.2	41°17.8'	36.4	16°15.9'	66.1	15°44.9'	94.4	45°45.9'	163.3	31°36.7'	212.4	45°20.4'	303.1
4	44°46.6'	358.0	41°51.6'	35.4	17°52.7'	66.2	16°42.4'	93.9	46°02.1'	164.0	31°05.7'	212.6	44°31.9'	302.6
5	44°43.6'	356.8	42°24.6'	34.4	18°45.4'	65.8	17°40.0'	93.7	46°17.6'	164.7	30°34.5'	212.8	43°42.9'	301.3
6	44°39.7'	355.5	42°56.7'	33.4	19°37.9'	65.4	18°37.6'	93.4	46°32.5'	165.4	30°03.1'	213.0	42°53.6'	300.8
7	44°34.6'	354.3	43°28.1'	32.4	20°30.3'	64.9	19°36.1'	93.2	46°46.7'	166.1	29°31.6'	213.2	42°03.9'	300.1
8	44°28.3'	353.1	43°58.3'	31.3	21°22.4'	64.2	20°32.7'	92.9	47°00.1'	166.8	28°59.9'	213.4	41°13.8'	299.4
9	44°20.7'	351.9	44°28.0'	30.2	22°14.4'	64.1	21°30.3'	92.6	47°12.9'	167.6	28°28.1'	213.6	40°23.4'	298.7
10	44°12.0'	350.7	44°56.5'	29.1	23°06.2'	63.6	22°28.0'	92.4	47°24.9'	168.3	27°56.2'	213.7	39°32.6'	298.1
11	44°02.1'	349.5	45°24.8'	28.0	23°57.7'	63.0	23°25.6'	92.1	47°36.2'	169.1	27°24.1'	213.9	38°42.1'	297.4
12	43°50.0'	348.3	45°50.7'	26.9	24°49.1'	62.7	24°23.2'	91.6	47°46.8'	169.8	26°51.5'	214.0	37°50.2'	296.8
13	43°38.7'	347.1	46°16.2'	25.7	25°40.2'	62.2	25°20.9'	91.4	47°56.6'	170.6	26°19.6'	214.1	36°58.6'	296.2
14	43°25.2'	346.0	46°40.7'	24.5	26°31.1'	61.7	26°18.5'	91.3	48°05.6'	171.4	25°47.2'	214.2	36°06.7'	295.6
	*Hamal		ALDEBARAN		RIGEL		*CANOPUS		ACHERNAR		*FOMALHAUT		Alpheratz	
15	47°04.0'	23.2	27°21.7'	61.2	27°16.2'	91.1	18°01.4'	141.0	48°13.8'	172.2	59°05.2'	238.8	43°10.7'	344.8
16	47°26.3'	22.0	28°12.2'	60.7	28°13.9'	90.8	18°18.7'	141.0	48°21.3'	173.0	58°15.7'	239.3	42°55.0'	343.7
17	47°47.3'	20.8	29°02.3'	60.1	29°11.5'	90.5	19°14.0'	140.9	48°27.9'	173.8	57°26.0'	239.8	42°38.3'	342.5
18	48°07.2'	19.2	29°52.2'	59.6	30°09.2'	90.3	19°50.4'	140.9	48°33.8'	174.6	56°36.0'	240.3	42°20.4'	341.4
19	48°25.8'	18.3	30°41.8'	59.0	31°06.9'	90.2	20°26.7'	140.9	48°38.8'	175.4	55°45.8'	240.7	42°01.5'	340.3
20	48°43.3'	16.9	31°31.1'	58.3	32°04.6'	89.7	21°03.1'	140.9	48°43.0'	176.2	54°55.5'	241.1	41°41.6'	339.2
21	48°59.3'	15.6	32°20.0'	57.5	33°02.2'	89.2	21°39.4'	141.0	48°46.4'	177.0	54°04.0'	241.5	41°20.7'	338.2
22	49°14.2'	14.2	33°08.7'	57.2	33°59.9'	89.1	22°15.8'	141.0	48°49.0'	177.8	53°14.1'	241.8	40°58.7'	337.1
23	49°27.7'	12.9	33°57.0'	56.6	34°57.2'	88.9	22°52.1'	141.0	48°50.8'	178.7	52°23.2'	242.1	40°35.8'	336.1
24	49°39.8'	11.5	34°45.0'	56.0	35°55.6'	88.6	23°28.3'	141.1	48°51.7'	179.5	51°32.2'	242.4	40°12.0'	335.1
25	49°50.6'	10.1	35°32.6'	55.3	36°52.9'	88.3	24°04.6'	141.1	48°51.8'	180.3	50°41.0'	242.7	39°47.2'	334.1
26	50°00.0'	08.7	36°19.9'	54.3	37°50.5'	88.0	24°40.7'	141.2	48°51.1'	181.1	49°49.9'	242.9	39°21.6'	333.1
27	50°08.0'	07.3	37°06.7'	53.6	38°48.2'	87.7	25°16.9'	141.2	48°49.5'	182.0	48°58.3'	243.3	38°55.0'	332.1
28	50°14.6'	05.8	37°53.1'	53.2	39°45.8'	87.4	25°52.9'	141.3	48°47.1'	182.8	48°06.7'	243.8	38°27.6'	331.2
29	50°19.8'	04.4	38°39.1'	52.5	40°43.4'	87.0	26°29.0'	141.4	48°43.9'	183.6	47°15.1'	243.8	37°59.4'	330.2
	*Hamal		ALDEBARAN		*SIRIUS		CANOPUS		ACHERNAR		*FOMALHAUT		Alpheratz	
30	50°23.5'	03.0	39°24.6'	51.7	41°47.9'	102.0	27°04.9'	141.5	48°39.9'	184.4	46°23.4'	243.8	37°30.3'	329.3
31	50°25.8'	01.5	40°09.7'	51.0	42°44.3'	101.8	27°40.7'	141.6	48°35.0'	185.2	45°31.7'	243.9	37°00.0'	328.4
32	50°26.6'	00.1	40°54.2'	50.2	43°40.8'	101.6	28°16.5'	141.8	48°29.3'	186.0	44°39.8'	244.1	36°29.9'	327.5
33	50°26.0'	358.7	41°38.3'	49.4	44°37.3'	101.4	28°52.1'	141.9	48°22.9'	186.8	43°47.9'	244.2	35°58.5'	326.6
34	50°23.9'	357.2	42°21.8'	48.5	45°33.9'	101.2	29°27.6'	142.0	48°15.6'	187.6	42°56.0'	244.3	35°26.5'	325.8
35	50°20.4'	355.8	43°04.7'	47.6	46°26.3'	101.1	30°03.0'	142.2	48°07.5'	188.4	42°04.0'	244.4	34°53.7'	325.0
36	50°15.5'	354.4	43°47.4'	46.7	47°18.2'	100.9	30°38.3'	142.4	47°58.7'	189.2	41°11.9'	244.5	34°23.0'	324.1
37	50°09.1'	352.9	44°28.7'	45.7	48°10.2'	100.7	31°13.4'	142.6	47°49.1'	190.0	40°19.8'	244.6	33°53.4'	323.3
38	50°01.3'	351.5	45°09.7'	44.9	49°02.0'	100.5	31°48.4'	142.8	47°38.7'	190.7	39°27.7'	244.7	33°23.1'	322.6
39	49°52.1'	340.1	45°50.0'	43.9	50°01.2'	100.3	32°23.3'	143.0	47°27.6'	191.5	38°35.6'	244.7	32°32.3'	321.8
40	49°41.5'	328.7	46°29.7'	42.9	51°00.0'	100.2	32°57.9'	143.2	47°15.7'	192.2	37°43.4'	244.8	32°00.1'	321.0
41	49°29.6'	317.4	47°08.6'	41.9	52°00.0'	100.0	33°32.4'	143.4	47°03.1'	193.0	36°51.2'	244.8	31°23.5'	320.3
42	49°16.3'	306.0	47°46.7'	40.8	53°00.0'	99.8	34°06.7'	143.6	46°49.8'	193.7	35°59.0'	244.8	30°46.4'	319.6
43	49°01.7'	294.6	48°23.9'	39.7	54°00.0'	99.7	34°40.8'	143.9	46°35.8'	194.4	35°06.8'	244.9	30°08.8'	318.9
44	48°45.7'	283.3	49°00.4'	38.6	55°00.0'	99.5	35°14.6'	144.2	46°21.0'	195.1	34°14.6'	244.9	29°30.6'	318.2
	*CAPPELLA		BETELGEUSE		*SIRIUS		*CANOPUS		ACHERNAR		*FOMALHAUT		Hamal	
45	20°34.8'	24.9	40°29.9'	65.1	35°58.1'	99.3	35°48.3'	144.5	46°05.7'	195.8	33°22.4'	244.9	48°28.5'	342.0
46	20°58.8'	24.3	41°22.0'	64.5	36°55.0'	99.2	36°21.7'	144.7	45°49.6'	196.5	32°30.2'	244.8	48°10.1'	340.7
47	21°22.2'	23.6	42°13.9'	63.8	37°52.0'	99.0	36°54.9'	145.1	45°32.9'	197.2	31°38.0'	244.8	47°50.0'	339.4
48	21°45.1'	23.0	43°05.5'	63.1	38°49.0'	98.9	37°27.8'	145.4	45°16.9'	197.8	30°45.8'	244.8	47°29.5'	338.1
49	22°07.3'	22.4	43°56.8'	62.4	39°46.0'	98.7	38°00.4'	145.7	44°57.6'	198.5	29°53.6'	244.8	47°07.5'	336.9
50	22°29.0'	21.8	44°47.8'	61.7	40°43.0'	98.5	38°32.7'	146.1	44°39.1'	199.1	29°01.1'	244.7	46°44.0'	335.7
51	22°50.1'	21.1	45°38.4'	61.0	41°40.0'	98.4	39°04.8'	146.4	44°19.9'	199.7	28°09.3'	244.7	46°20.0'	334.5
52	23°10.5'	20.4	46°28.7'	60.2	42°37.1'	98.3	39°36.5'	146.8	44°00.2'	200.3	27°17.2'	244.6	45°54.6'	333.3
53	23°30.4'	19.8	47°18.5'	59.4	43°34.2'	98.1	40°07.9'	147.2	43°39.9'	200.9	26°25.1'	244.5	45°28.2'	332.2
54	23°49.6'	19.1	48°08.0'	58.6	44°31.3'	97.9	40°39.0'	147.6	43°19.0'	201.5	25°33.0'	244.5	45°00.8'	331.0
55	24°08.1'	18.4	48°57.0'	57.8	45°28.4'	97.8	41°09.7'	148.1	42°57.7'	202.2	24°41.0'	244.4	44°32.4'	329.9
56	24°26.0'	17.7	49°45.5'	56.9	46°25.6'	97.7	41°40.0'	148.5	42°35.8'	202.8	23°49.0'	244.3	44°03.0'	328.8
57	24°43.3'	17.0	50°33.6'	56.0	47°22.8'	97.5	42°09.9'	149.0	42°13.4'	203.2	22°57.0'	244.3	43°32.7'	327.8
58	24°59.8'	16.3	51°21.1'	55.0	48°20.0'	97.4	42°39.4'	149.4	41°50.5'	203.6	22°05.1'	244.2	43°01.6'	326.8
59	25°15.7'	15.6	52°08.1'	54.0	49°17.2'	97.2	43°08.5'	149.9	41°27.2'	204.1	21°13.3'	244.0	42°29.5'	325.7
	CAPPELLA		BETELGEUSE		*SIRIUS		CANOPUS		*ACHERNAR		Diphda		*Hamal	
60	25°30.0'	14.9	52°54.4'	53.0	50°14.4'	97.1	43°37.2'	150.5	41°03.3'	204.6	43°21.6'	260.3	41°56.6'	324.8
61	25°45.4'	14.2	53°40.0'	52.1	51°11.6'	97.0	44°05.4'	151.0	40°39.1'	205.1	42°24.8'	260.2	41°22.9'	323.8
62	25°59.2'	13.5	54°25.3'	50.8	52°08.0'	96.9	44°43.3'	151.5	40°14.4'	205.6	41°28.0'	260.1	40°48.5'	322.8
63	26°12.3'	12.7	55°09.6'	49.7	53°06.2'	96.7	45°20.0'	152.1	39°49.3'	206.0	40°31.2'	259.9	40°13.3'	321.9
64	26°24.6'	12.0	55°53.2'	48.5	54°03.4'	96.6	45°57.2'	152.7	39°23.8'	206.5	39°34.4'	259.8	39°37.3'	321.0

Table of star coordinates for Lat 16 S, columns include LHA, Hc, Zn, and star names like ARCTURUS, ANTARES, ACRUX, etc.

Table of star coordinates for Lat 16 S, columns include LHA, Hc, Zn, and star names like DENEBO, FOMALHAUT, PEACOCK, etc.

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
	*Alphertz		Hamal		ALDEBARAN		*RIGEL		ACHERNAR		*Peacock		Enif	
0	43°44.6'	02.8	38°45.1'	38.6	13°57.6'	67.5	12°57.5'	94.7	45°50.3'	161.1	33°59.5'	212.0	47°07.9'	306.5
1	43°46.8'	01.6	39°20.6'	37.7	14°50.5'	67.1	13°54.7'	94.4	46°08.6'	161.7	33°29.0'	212.3	46°21.5'	305.7
2	43°47.8'	00.4	39°55.3'	36.8	15°43.3'	66.7	14°51.9'	94.4	46°26.3'	162.4	32°58.2'	212.5	45°34.6'	304.8
3	43°47.7'	359.2	40°29.3'	35.9	16°36.9'	66.3	15°49.1'	93.9	46°43.3'	163.0	32°27.3'	212.8	44°47.3'	304.0
4	43°46.6'	41°02.5'	34.9	17°28.4'	65.9	16°46.4'	93.6	46°59.7'	163.7	31°56.1'	213.0	43°59.4'	303.4	
5	43°43.7'	358.0	41°32.9'	33.9	18°20.7'	65.1	17°43.7'	93.4	47°15.4'	164.4	31°24.8'	213.2	43°11.2'	302.1
6	43°39.9'	358.6	42°06.6'	32.9	19°12.8'	65.0	18°40.9'	93.1	47°30.5'	165.1	30°53.3'	213.4	42°22.5'	301.6
7	43°34.9'	354.4	42°37.3'	31.9	20°04.4'	64.2	19°38.3'	92.8	47°44.9'	165.9	30°21.7'	213.5	41°33.4'	300.9
8	43°28.7'	353.2	43°07.1'	30.8	20°56.4'	64.0	20°35.6'	92.5	47°58.5'	166.6	29°49.1'	213.7	40°44.1'	300.1
9	43°21.3'	352.0	43°36.0'	29.7	21°48.0'	63.7	21°32.9'	92.2	48°11.5'	167.3	29°18.0'	213.9	39°54.2'	299.4
10	43°12.8'	350.8	44°04.0'	28.7	22°39.3'	63.2	22°20.3'	92.0	48°23.7'	168.1	28°46.0'	214.0	39°04.1'	298.8
11	43°03.0'	349.7	44°31.0'	27.5	23°30.4'	62.8	23°07.6'	91.7	48°35.1'	168.9	28°13.6'	214.2	38°13.6'	298.1
12	42°52.2'	348.5	44°57.1'	26.4	24°21.3'	62.3	24°04.9'	91.4	48°45.8'	169.6	27°41.5'	214.3	37°22.9'	297.5
13	42°40.2'	347.3	45°22.0'	25.2	25°12.0'	61.8	25°02.2'	91.1	48°55.7'	170.4	27°09.2'	214.4	36°31.8'	296.9
14	42°27.0'	346.2	45°46.2'	24.1	26°02.4'	61.3	26°19.7'	90.8	49°04.9'	171.2	26°36.7'	214.5	35°40.5'	296.3
	*Hamal		ALDEBARAN		RIGEL		*CANOPUS		ACHERNAR		*FOMALHAUT		Alpheratz	
15	46°08.8'	22.2	26°52.6'	60.7	27°17.0'	90.6	18°47.4'	140.8	49°13.3'	172.0	59°35.6'	240.2	42°12.8'	345.0
16	46°30.6'	21.6	27°42.5'	60.0	28°14.0'	90.3	19°24.2'	140.7	49°20.8'	172.8	58°45.7'	240.7	41°57.4'	343.9
17	46°51.0'	20.4	28°32.2'	59.7	29°11.0'	90.0	20°00.6'	140.7	49°27.6'	173.6	57°55.6'	241.2	41°41.0'	342.8
18	47°10.6'	19.2	29°21.6'	59.1	30°09.2'	89.7	20°36.9'	140.7	49°33.5'	174.5	57°05.2'	241.6	41°23.5'	341.7
19	47°28.8'	17.9	30°11.6'	58.5	31°06.6'	89.4	21°13.2'	140.7	49°38.6'	175.3	56°15.4'	242.0	41°05.0'	340.6
20	47°45.8'	16.3	30°59.4'	57.9	32°03.9'	89.1	21°49.4'	140.7	49°42.9'	176.1	55°23.3'	242.4	40°45.4'	339.6
21	48°01.5'	15.3	31°47.9'	57.3	33°01.3'	88.7	22°25.9'	140.7	49°46.4'	177.0	54°33.0'	242.7	40°24.9'	338.5
22	48°16.0'	13.9	32°36.0'	56.7	33°58.7'	88.5	23°02.3'	140.7	49°49.0'	177.8	53°41.9'	243.0	40°03.4'	337.5
23	48°29.1'	12.6	33°23.8'	56.1	34°56.0'	88.2	23°38.6'	140.7	49°50.8'	178.6	52°50.7'	243.3	39°40.9'	336.4
24	48°41.0'	11.2	34°11.2'	55.4	35°53.4'	87.8	24°14.9'	140.7	49°51.7'	179.5	51°59.4'	243.6	39°17.5'	335.4
25	48°51.5'	9.9	34°58.3'	54.7	36°50.7'	87.5	24°51.2'	140.8	49°51.8'	180.3	51°08.0'	243.8	38°53.2'	334.4
26	49°00.7'	8.5	35°44.9'	54.1	37°48.0'	87.2	25°27.4'	140.9	49°51.1'	181.2	50°16.2'	244.0	38°28.2'	333.5
27	49°08.5'	7.1	36°31.1'	53.3	38°45.3'	86.9	26°03.6'	140.9	49°49.5'	182.0	49°24.8'	244.3	38°01.9'	332.6
28	49°14.9'	5.7	37°17.1'	52.6	39°42.6'	86.5	26°39.7'	141.0	49°47.0'	182.8	48°33.1'	244.4	37°37.0'	331.5
29	49°19.9'	4.4	38°02.3'	51.9	40°39.9'	86.2	27°15.8'	141.1	49°43.8'	183.7	47°41.4'	244.6	37°05.2'	330.6
	*Hamal		ALDEBARAN		*SIRIUS		CANOPUS		ACHERNAR		*FOMALHAUT		Alpheratz	
30	49°23.6'	02.9	38°47.2'	51.1	22°00.2'	101.6	27°51.7'	141.2	49°39.7'	184.5	46°49.5'	244.7	36°38.6'	329.7
31	49°25.8'	01.5	39°31.6'	50.3	22°56.4'	101.4	28°27.7'	141.3	49°34.7'	185.3	45°57.6'	244.9	36°09.3'	328.8
32	49°26.6'	0.1	40°15.6'	49.5	23°52.7'	101.2	29°03.5'	141.4	49°29.0'	186.2	45°05.6'	245.0	35°39.2'	327.9
33	49°26.0'	358.7	40°58.9'	48.7	24°49.0'	101.0	29°39.3'	141.6	49°22.4'	187.0	44°13.6'	245.1	35°08.3'	327.0
34	49°24.0'	357.3	41°41.7'	47.8	25°45.3'	100.8	30°14.8'	141.7	49°15.0'	187.8	43°21.6'	245.2	34°36.7'	326.2
35	49°20.6'	355.9	42°24.4'	47.0	26°41.7'	100.6	30°50.3'	141.8	49°06.9'	188.6	42°29.5'	245.3	34°04.5'	325.4
36	49°15.8'	354.5	43°05.6'	46.2	27°38.1'	100.4	31°25.7'	142.0	48°57.9'	189.4	41°37.3'	245.3	33°31.1'	324.5
37	49°09.6'	353.1	43°46.6'	45.4	28°34.3'	100.2	32°01.0'	142.2	48°48.1'	190.2	40°45.2'	245.3	32°57.9'	323.7
38	49°02.0'	351.7	44°26.9'	44.2	29°31.1'	100.0	32°36.1'	142.4	48°37.6'	191.0	39°53.0'	245.4	32°23.6'	323.0
39	48°53.0'	350.3	45°06.6'	43.0	30°27.6'	99.8	33°11.0'	142.6	48°26.3'	191.7	39°00.8'	245.5	31°48.3'	322.4
40	48°42.7'	349.0	45°45.5'	42.3	31°24.2'	99.6	33°35.8'	142.8	48°14.3'	192.5	38°08.6'	245.5	31°13.8'	321.6
41	48°31.0'	347.6	46°23.6'	41.1	32°20.0'	99.4	34°20.4'	143.0	48°01.5'	193.2	37°16.4'	245.5	30°37.2'	320.7
42	48°18.1'	346.3	47°01.0'	40.1	33°17.4'	99.2	34°54.9'	143.2	47°48.0'	194.0	36°24.2'	245.5	30°00.6'	319.3
43	48°03.8'	344.9	47°37.6'	39.0	34°14.1'	99.0	35°29.1'	143.3	47°33.8'	194.7	35°32.0'	245.5	29°23.4'	318.0
44	47°48.2'	343.6	48°13.2'	37.9	35°10.8'	98.8	36°03.2'	143.7	47°18.9'	195.4	34°39.8'	245.5	28°45.7'	318.6
	*CAPPELLA		BETELGEUSE		*SIRIUS		*CANOPUS		ACHERNAR		*FOMALHAUT		Hamal	
45	19°40.4'	24.7	40°04.2'	64.3	36°07.0'	98.6	36°36.7'	144.0	47°03.3'	196.1	33°47.6'	245.5	47°31.4'	342.3
46	20°04.1'	24.1	40°55.8'	63.7	37°04.2'	98.4	37°10.6'	144.3	46°47.1'	196.8	32°55.4'	245.4	47°13.4'	341.0
47	20°27.2'	23.5	41°47.1'	63.3	38°01.0'	98.2	37°43.9'	144.6	46°30.3'	197.5	32°03.3'	245.4	46°54.2'	339.8
48	20°49.8'	22.9	42°38.0'	62.8	38°57.8'	98.0	38°17.0'	144.9	46°12.6'	198.1	31°11.1'	245.4	46°33.1'	338.5
49	21°11.8'	22.2	43°28.7'	61.6	39°54.6'	97.8	38°49.8'	145.3	45°54.5'	198.8	30°18.9'	245.3	46°12.5'	337.3
50	21°33.3'	21.6	44°19.0'	60.9	40°51.5'	97.7	39°22.4'	145.6	45°35.3'	199.4	29°26.8'	245.2	45°49.5'	336.1
51	21°54.1'	21.0	45°08.9'	60.1	41°48.3'	97.5	39°59.6'	146.0	45°16.3'	200.0	28°34.7'	245.2	45°25.7'	334.9
52	22°14.3'	20.3	45°58.4'	59.3	42°45.2'	97.3	40°26.6'	146.4	44°56.4'	200.6	27°42.7'	245.1	45°00.0'	333.8
53	22°33.9'	19.6	46°46.7'	58.4	43°42.2'	97.0	41°08.2'	146.8	44°35.9'	201.2	26°50.0'	245.0	44°35.1'	332.6
54	22°52.8'	19.0	47°36.3'	57.7	44°39.1'	97.0	41°29.5'	147.2	44°14.8'	201.8	25°58.7'	244.9	44°08.2'	331.5
55	23°11.1'	18.4	48°24.5'	56.8	45°36.1'	96.8	42°00.4'	147.6	43°53.2'	202.4	25°06.7'	244.8	43°43.0'	330.4
56	23°28.9'	17.6	49°12.3'	55.9	46°33.1'	96.6	42°31.0'	148.0	43°31.1'	202.9	24°14.8'	244.7	43°11.5'	329.3
57	23°45.9'	16.9	49°59.5'	55.0	47°30.1'	96.4	43°03.1'	148.5	43°08.5'	203.5	23°23.0'	244.6	42°42.4'	328.3
58	24°02.2'	16.2	50°46.2'	54.0	48°27.1'	96.3	43°31.0'	149.0	42°45.4'	204.2	22°31.1'	244.5	42°11.2'	327.3
59	24°17.9'	15.5	51°32.4'	53.0	49°24.1'	96.1	44°00.4'	149.5	42°21.8'	204.8	21°39.4'	244.3	41°39.8'	326.2
	CAPPELLA		BETELGEUSE		*SIRIUS		CANOPUS		*ACHERNAR		Diphda		*Hamal	
60	24°32.9'	14.8	52°17.9'	52.0	50°21.2'	95.9	44°29.3'	150.0	41°57.8'	205.0	43°31.2'	261.2	41°07.5'	325.3
61	24°47.2'	14.1	53°02.8'	50.9	51°18.3'	95.7	44°57.8'	150.4	41°33.3'	205.5	42°34.6'	261.0	40°34.4'	324.3
62	25°00.8'	13.4	53°46.9'	49.8	52°15.4'	95.6	45°25.8'	151.1	41°08.4'	205.9	41°37.9'	260.9	39°50.5'	323.3
63	25°13.7'	12.6	54°30.4'	48.6	53°12.5'	95.4	45°53.3'	151.6	40°43.1'	206.4	40°41.1'	260.8	39°25.9'	322.4
64	25°25.9'	11.9	55°13.0'	47.4	54°09.6'	95.2	46°20.3'	152.0	40°17.4'	206.8	39°4			

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
180	40°43.1'	44.4	27°06.7'	111.5	43°32.4'	175.7	45°14.2'	224.4	52°15.2'	277.8	50°15.4'	314.8	58°26.7'	355.4
181	41°23.0'	43.5	28°00.1'	111.4	43°36.4'	176.3	44°33.9'	224.8	51°18.3'	277.3	49°34.3'	313.7	58°21.2'	353.6
182	42°02.2'	42.6	28°53.5'	111.3	43°39.8'	176.9	44°35.3'	225.2	50°21.4'	276.9	48°52.5'	312.6	58°13.8'	351.7
183	42°40.7'	41.7	29°29.4'	111.2	43°42.6'	177.5	44°32.5'	225.6	49°24.4'	276.5	48°09.9'	311.6	58°04.7'	349.9
184	43°18.4'	40.7	30°40.5'	111.1	43°44.7'	178.2	44°31.3'	226.8	48°27.3'	276.0	47°26.7'	310.6	57°53.8'	348.1
185	43°55.5'	39.7	31°13.4'	111.1	43°46.3'	178.8	44°30.2'	228.2	47°30.2'	275.6	46°42.8'	309.7	57°41.1'	346.4
186	44°31.8'	38.7	32°27.6'	111.0	43°47.1'	179.4	44°30.7'	228.5	46°33.1'	275.3	45°58.3'	308.7	57°26.7'	344.6
187	45°07.2'	37.7	33°21.1'	110.9	43°47.4'	180.0	44°30.2'	227.7	45°36.0'	274.9	45°13.3'	307.8	57°10.7'	342.9
188	45°40.9'	36.6	34°14.8'	110.8	43°47.1'	180.7	39°45.5'	226.4	44°38.8'	274.5	44°44.2'	307.0	56°56.3'	341.2
189	46°15.7'	35.5	35°08.4'	110.8	43°46.1'	181.3	39°03.1'	227.2	43°41.6'	274.1	43°41.6'	306.1	56°33.7'	339.5
190	46°48.5'	34.3	36°02.0'	110.7	43°44.5'	181.9	38°20.0'	227.5	42°44.3'	273.8	42°55.0'	305.3	56°12.9'	337.9
191	47°20.5'	33.2	36°55.7'	110.7	43°42.2'	182.5	37°38.6'	227.4	41°47.1'	273.4	42°08.0'	304.5	55°50.5'	336.3
192	47°51.4'	32.1	37°49.4'	110.7	43°39.4'	183.2	36°56.6'	227.9	40°49.8'	273.1	41°20.5'	303.7	55°26.8'	334.7
193	48°21.4'	30.9	38°43.1'	110.6	43°35.9'	183.8	36°13.5'	228.0	39°52.5'	272.8	40°32.5'	303.0	55°05.0'	333.2
194	48°50.3'	29.6	39°36.8'	110.6	43°31.9'	184.4	35°30.8'	228.2	38°56.2'	272.4	39°44.2'	302.3	54°35.0'	331.7
195	49°18.1'	28.4	40°30.5'	110.6	43°27.2'	185.0	34°47.9'	228.4	38°55.5'	272.0	38°54.0'	301.6	54°07.2'	330.2
196	49°44.8'	27.1	41°24.2'	110.6	43°21.9'	185.6	34°05.0'	228.5	38°06.0'	271.6	38°06.0'	300.9	53°38.1'	328.8
197	50°10.4'	25.8	41°17.3'	110.6	43°15.9'	186.2	33°22.0'	228.6	37°17.0'	271.0	37°17.0'	300.2	53°07.8'	327.4
198	50°34.7'	24.4	41°27.7'	110.6	43°11.6'	186.8	32°38.8'	228.8	36°27.3'	270.3	36°27.3'	299.5	52°36.4'	326.1
199	50°57.9'	23.1	41°39.2'	110.6	43°06.3'	187.4	31°55.7'	228.9	35°37.3'	269.6	35°37.3'	298.6	52°05.0'	324.8
200	51°19.7'	21.7	42°10.5'	110.6	42°59.0'	188.0	31°12.4'	229.0	34°46.8'	268.9	35°12.0'	297.8	51°33.3'	323.5
201	51°40.3'	20.3	42°18.8'	110.6	42°52.4'	188.6	30°29.8'	229.1	33°56.0'	268.0	34°56.0'	297.0	51°02.0'	322.2
202	51°59.5'	18.8	42°22.0'	110.6	42°46.3'	189.2	29°45.8'	229.1	33°05.2'	267.1	34°05.2'	296.1	50°30.0'	321.1
203	52°17.3'	17.2	42°25.5'	110.6	42°40.2'	189.7	29°02.4'	229.2	32°14.0'	266.2	33°14.0'	295.2	49°58.3'	319.9
204	52°33.7'	15.9	42°30.6'	110.6	42°33.5'	190.2	28°18.9'	229.2	31°23.1'	265.3	32°23.1'	294.3	49°26.6'	318.7
205	52°48.7'	14.4	42°41.5'	110.6	42°27.1'	190.7	27°35.5'	229.2	30°30.9'	264.4	31°30.9'	293.4	48°54.9'	317.6
206	53°02.3'	12.9	42°54.2'	110.6	42°21.1'	191.2	26°52.0'	229.2	29°39.9'	263.5	30°39.9'	292.5	48°23.2'	316.5
207	53°14.3'	11.3	43°06.2'	110.6	42°15.1'	191.7	26°08.5'	229.2	28°48.8'	262.6	29°48.8'	291.6	47°51.5'	315.4
208	53°24.8'	9.8	43°17.1'	110.6	42°09.1'	192.2	25°25.0'	229.2	27°54.5'	261.7	28°54.5'	290.7	47°19.8'	314.3
209	53°33.8'	8.2	43°28.1'	110.6	42°03.0'	192.7	24°41.5'	229.2	27°01.9'	260.8	28°01.9'	289.8	46°47.1'	313.5
210	53°41.2'	6.6	43°39.0'	110.6	41°56.9'	193.2	23°59.0'	229.2	26°09.2'	259.9	27°09.2'	288.9	46°15.4'	312.4
211	53°47.0'	5.0	43°50.9'	110.6	41°50.8'	193.7	23°16.5'	229.2	25°16.7'	259.0	26°16.7'	288.0	45°43.7'	311.3
212	53°51.2'	3.4	44°02.8'	110.6	41°44.7'	194.2	22°34.0'	229.2	24°24.2'	258.1	25°24.2'	287.1	45°12.0'	310.2
213	53°53.9'	1.8	44°14.7'	110.6	41°38.6'	194.7	21°51.5'	229.2	23°32.3'	257.2	24°32.3'	286.2	44°40.3'	309.1
214	53°54.9'	0.2	44°26.6'	110.6	41°32.5'	195.2	21°09.0'	229.2	22°40.6'	256.3	23°40.6'	285.3	44°08.6'	308.0
215	53°54.3'	358.6	33°19.2'	61.8	45°55.4'	176.3	39°53.4'	196.0	20°20.7'	229.1	21°42.8'	291.7	43°16.1'	307.0
216	53°52.4'	357.0	34°09.6'	61.2	45°58.7'	177.0	39°37.3'	196.0	19°37.3'	229.1	20°49.9'	290.8	42°44.4'	306.1
217	53°48.4'	355.4	34°59.7'	60.6	46°04.6'	113.8	46°01.3'	177.7	39°20.8'	197.0	18°54.0'	229.0	41°55.2'	289.3
218	53°43.0'	353.8	35°49.6'	59.9	46°07.1'	114.2	46°03.2'	178.4	39°03.9'	197.4	18°10.7'	228.9	41°01.1'	289.4
219	53°36.1'	352.3	36°39.3'	59.1	46°10.4'	114.6	46°04.5'	179.1	38°46.4'	197.9	17°27.5'	228.8	40°06.9'	289.0
220	53°27.6'	350.7	37°28.2'	58.6	46°14.1'	115.0	46°05.8'	180.3	38°28.8'	198.3	16°44.4'	228.7	39°12.6'	288.7
221	53°17.5'	349.1	38°17.1'	57.9	46°18.3'	115.6	46°07.1'	181.0	38°10.4'	198.7	16°01.3'	228.6	38°16.8'	288.3
222	53°05.9'	347.9	39°05.5'	57.2	46°24.9'	116.2	46°03.9'	181.2	37°51.8'	199.1	15°18.3'	228.5	37°15.2'	287.9
223	52°52.8'	346.1	39°53.5'	56.5	46°32.6'	116.8	46°02.3'	181.9	37°32.8'	199.6	14°35.4'	228.4	36°14.2'	287.5
224	52°38.3'	344.5	40°41.2'	55.8	46°40.7'	117.4	46°00.1'	182.6	37°13.4'	199.9	13°52.6'	228.2	35°13.4'	287.2
225	45°30.7'	11.4	14°30.7'	40.9	13°24.3'	76.1	18°36.8'	145.0	45°57.1'	183.3	36°34.8'	281.1	52°22.3'	343.1
226	45°41.1'	10.1	15°08.1'	40.4	14°20.0'	75.8	19°09.8'	145.0	45°53.4'	184.0	36°38.4'	280.4	52°04.8'	341.6
227	45°50.5'	8.8	15°45.1'	39.9	15°15.6'	75.1	19°42.7'	144.9	45°49.1'	184.7	36°44.1'	279.7	51°46.0'	340.1
228	45°58.7'	7.6	16°21.7'	39.4	16°11.1'	74.5	20°15.7'	144.9	45°44.0'	185.4	36°45.3'	279.1	51°25.9'	338.7
229	46°05.7'	6.3	16°57.9'	38.9	17°06.5'	74.7	20°48.6'	144.9	45°38.3'	186.1	36°42.8'	278.5	51°04.4'	337.3
230	46°11.3'	5.0	17°33.8'	38.4	18°01.8'	74.3	21°21.6'	144.9	45°31.9'	186.8	36°41.5'	278.0	50°41.6'	335.9
231	46°15.7'	3.7	18°09.2'	37.8	18°57.0'	73.8	21°54.6'	144.9	45°24.8'	187.4	36°40.5'	277.5	50°17.6'	334.6
232	46°18.8'	2.4	18°44.1'	37.3	19°52.1'	73.2	22°27.5'	144.9	45°17.0'	188.1	35°59.8'	276.9	49°52.4'	333.3
233	46°20.6'	0.1	19°18.7'	36.7	20°47.0'	72.3	23°00.4'	144.9	45°08.6'	188.8	35°50.0'	276.4	49°26.1'	332.0
234	46°21.1'	359.8	19°52.8'	36.2	21°41.9'	72.8	23°33.3'	145.1	44°59.6'	189.4	35°48.0'	276.0	48°58.6'	330.7
235	46°18.2'	358.6	20°26.4'	35.2	22°36.6'	72.4	24°06.1'	145.1	44°49.9'	190.1	35°40.9'	275.6	48°30.0'	329.3
236	46°16.0'	357.3	21°09.5'	34.0	23°31.3'	71.9	24°38.9'	145.2	44°39.6'	190.7	35°30.9'	275.1	48°00.3'	328.5
237	46°14.1'	356.0	21°52.3'	34.2	24°25.7'	71.5	25°11.6'	145.3	44°28.6'	191.3	35°21.6'	274.7	47°29.6'	327.1
238	46°11.1'	354.7	22°40.4'	33.8	25°20.4'	71.1	25°44.3'	145.3	44°17.0'	191.9	35°15.4'	274.3	46°58.0'	325.9
239	46°04.2'	353.4	23°26.0'	33.2	26°14.3'	70.6	26°16.9'	145.4	44°04.9'	192.6	35°03.8'	273.9	46°25.4'	324.8
240	23°07.3'	31.2	27°08.4'	70.2	26°49.4'	145.5	43°52.1'	193.2	52°20.9'	273.5	45°45.1'	322.4	45°56.9'	352.1
241	23°37.7'	30.8	28°02.3'	69.7	27°21.8'	145.6	43°38.7'	193.5	51°23.6'	273.2	45°17.5'	320.7	45°45.8'	350.9
242	24°07.0'	31.2	28°56.0'	69.2	27°54.2'	145.8	43°24.8'	194.4	50°26.3'	272.8	44°42.2'	321.6	45°38.7'	349.6
243	24°37.3'	30.9	29°49.6'	68.8	28°26.4'	145.9	43°10.3'	194.9	49°29.0'	272.5	44°06.0'	320.6	45°27.7'	348.4
244	25°07.2'	29.9	30°43.0'	68.2	28°58.1'	146.2	42°55.2'	195.6	48°31.7'	272.1	43°29.4'	319.6	45°15.3'	347.1
245	25°34.5'	29.1	31°36.2'	67.8	29°30.3'	146.2	42°39.6'	196.1	47°34.3'	271.8	42°42.5'	318.6	45°02.6'	345.9
246	26°02.2'	28.2	32°29.2'	67.2	30°02.4'	146.4	42°23.4'	196.6	46°37.0'	271.5	42°01.3'	317.4	44°47.6'	344.7
247	26°29.3'	27.8	33°22.0'	66.7	30°34.1'	146.5	42°06.8'	197.2	45°39.6'	271.2	41°34.5'	316.7	44°31.8'	343.5
248	26°55.7'	27.1	34°14.6'	66.2	31°05.7'	146.7	41°49.6'	197.7	44°42.3'	270.9	40°54.9'	315.8	44°14.9'	342.3
249	27°21.5'	26.3	35°06.9'	65.3	31°37.1'	146.9	41°31.9'	198.2	43°44.9'	270.6	40°40.1'	315.0	43°56.9'	341.1
250	27°46.7'	25.6	35°59.1'	65.0	32°08.3'	147.1	41°13.7'	198.7	42°47.5'	270.3	39°33.7'	314.1	43°37.8'	340.0
251	28°11.1'	24.9	36°51.0'	64.4	32°39.4'	147.3	40°55.1'	199.7	41°50.1'	270.0	38°52.2'	313.3	43°17.6'	338.8
252	28°34.9'	24.1	37°42.6'											

Table with 15 columns (LHA, Hc, Zn) and 15 rows of star data. Each row contains star names (e.g., ARCTURUS, ANTARES, ACRUX) and their corresponding coordinates. The table is organized into sections based on star names and includes a grid of coordinates.

Table with 12 columns (LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn) and multiple rows of star data including names like ARCTURUS, ANTARES, ACRUX, etc.

Table with 10 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *Alphertz, Hamal, ALDEBARAN, *RIGEL, ACHERNAR, *Peacock, Enif.

Table with 10 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like POLLUX, *REGULUS, *Subail, *CANOPUS, ACHERNAR, *ALDEBARAN, CAPELLA.

Table with 10 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *Hamal, ALDEBARAN, RIGEL, *CANOPUS, ACHERNAR, *FOMALHAUT, Alpheratz.

Table with 10 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like POLLUX, *REGULUS, *ACRUX, CANOPUS, *RIGEL, ALDEBARAN, CAPELLA.

Table with 10 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *Hamal, ALDEBARAN, *SIRIUS, CANOPUS, ACHERNAR, *FOMALHAUT, Alpheratz.

Table with 10 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *REGULUS, SPICA, *ACRUX, CANOPUS, *RIGEL, BETELGEUSE, POLLUX.

Table with 10 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *CAPELLA, BETELGEUSE, SIRIUS, *CANOPUS, ACHERNAR, *FOMALHAUT, Hamal.

Table with 10 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like REGULUS, *SPICA, ACRUX, *CANOPUS, SIRIUS, BETELGEUSE, *POLLUX.

Table with 10 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like CAPELLA, BETELGEUSE, *SIRIUS, CANOPUS, *ACHERNAR, Diphda, *Hamal.

Table with 10 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like REGULUS, *ARCTURUS, SPICA, *ACRUX, CANOPUS, SIRIUS, *PROCYON.

Table with 10 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like CAPELLA, POLLUX, *PROCYON, Subail, *CANOPUS, ACHERNAR, *Hamal.

Table with 10 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Denebola, *ARCTURUS, SPICA, *ACRUX, SIRIUS, *PROCYON, REGULUS.

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
180	38°32.7'	42.7	28°10.6'	110.1	46°31.9'	175.5	47°20.3'	226.7	51°44.9'	281.6	48°06.0'	317.5	55°27.3'	355.8
181	39°10.6'	41.8	29°03.6'	109.9	46°36.1'	176.1	46°39.2'	227.0	50°49.6'	281.0	47°27.3'	316.1	55°22.2'	354.1
182	39°47.4'	40.9	29°56.7'	109.7	46°39.6'	176.8	45°57.8'	227.3	49°54.2'	280.4	46°47.8'	315.0	55°15.6'	352.4
183	40°24.4'	39.9	30°48.8'	109.6	46°42.4'	177.4	46°58.8'	227.9	49°46.0'	279.6	46°07.6'	314.0	55°07.3'	350.7
184	41°00.2'	39.0	31°42.9'	109.4	46°44.6'	178.1	44°34.3'	228.9	48°03.2'	279.4	45°26.7'	313.0	54°57.3'	349.0
185	41°35.3'	38.0	32°36.1'	109.3	46°46.2'	178.7	43°52.6'	229.4	47°07.5'	278.9	44°45.1'	312.0	54°45.8'	347.8
186	42°09.6'	37.0	33°29.3'	109.1	46°47.1'	179.4	43°10.5'	228.5	46°11.8'	278.4	44°02.9'	311.0	54°32.7'	345.4
187	42°43.4'	35.9	34°22.6'	109.0	46°47.4'	180.0	42°28.8'	228.7	45°15.9'	277.9	43°30.2'	310.1	54°18.1'	344.1
188	43°15.8'	34.9	35°15.9'	108.9	46°47.0'	180.7	41°45.8'	228.9	44°20.1'	277.4	42°36.6'	309.2	54°01.9'	342.6
189	43°47.6'	33.8	36°09.3'	108.8	46°46.0'	181.4	41°03.2'	229.1	43°24.1'	277.0	41°52.7'	308.3	53°44.3'	341.0
190	44°18.5'	32.7	37°02.7'	108.6	46°44.4'	182.0	40°20.5'	229.3	42°28.1'	276.5	41°08.2'	307.5	53°25.2'	339.4
191	44°48.5'	31.6	37°56.2'	108.5	46°42.1'	182.7	39°37.7'	229.5	41°32.1'	276.1	40°23.2'	306.7	53°04.7'	337.9
192	45°17.5'	30.4	38°49.4'	108.4	46°39.1'	183.3	38°54.8'	229.6	40°36.0'	275.7	39°37.7'	305.8	52°42.6'	336.4
193	45°45.6'	29.3	39°39.4'	108.3	46°35.8'	184.0	38°11.8'	229.9	39°39.9'	275.3	38°51.8'	305.1	52°19.8'	335.0
194	46°12.6'	28.1	40°36.7'	108.2	46°31.3'	184.6	37°28.8'	229.9	38°43.7'	274.8	38°05.4'	304.3	51°55.2'	333.6
195	46°38.6'	26.8	41°46.1'	108.1	46°26.4'	185.3	36°45.6'	230.0	37°18.6'	274.3	37°18.6'	303.5	51°29.4'	332.2
196	47°04.5'	25.6	42°53.9'	108.0	46°20.9'	185.9	35°02.4'	230.1	36°36.1'	273.4	36°36.1'	302.8	51°02.5'	330.8
197	47°27.3'	24.3	43°56.2'	107.9	46°14.8'	186.5	33°19.1'	230.2	35°23.5'	272.5	35°23.5'	302.1	50°34.4'	329.4
198	47°50.0'	23.0	44°54.9'	107.8	46°08.1'	187.1	31°36.7'	230.3	34°08.9'	271.6	34°08.9'	301.4	50°05.9'	328.1
199	48°11.4'	21.7	45°49.1'	107.7	46°00.8'	187.6	29°54.9'	230.3	33°49.7'	270.7	33°49.7'	300.7	49°37.9'	326.8
200	48°31.7'	20.4	46°39.9'	107.6	45°52.8'	188.0	28°13.8'	230.3	33°20.0'	270.0	33°20.0'	300.0	49°09.9'	325.6
201	48°50.8'	19.1	47°27.2'	107.5	45°44.4'	188.4	26°34.2'	230.3	32°51.9'	269.3	32°51.9'	299.4	48°41.9'	324.4
202	49°08.5'	17.7	48°12.5'	107.4	45°35.1'	188.9	24°57.0'	230.3	32°24.0'	268.6	32°24.0'	298.7	48°13.9'	323.2
203	49°25.0'	16.3	48°57.2'	107.3	45°25.4'	189.2	23°21.8'	230.3	31°57.9'	268.0	31°57.9'	298.0	47°45.9'	322.0
204	49°40.2'	14.9	49°42.3'	107.2	45°15.1'	189.5	21°54.0'	230.3	31°30.1'	267.3	31°30.1'	297.3	47°17.9'	320.8
205	49°54.0'	13.5	50°26.9'	107.1	45°04.2'	191.4	20°31.5'	230.3	31°02.9'	266.6	31°02.9'	296.6	46°49.9'	319.6
206	50°06.5'	12.1	51°10.2'	107.0	44°52.7'	192.0	18°59.8'	230.3	30°36.2'	266.0	30°36.2'	296.0	46°21.9'	318.4
207	50°17.6'	10.6	51°52.1'	106.9	44°40.8'	192.6	17°30.0'	230.3	30°10.1'	265.3	30°10.1'	295.3	45°53.9'	317.2
208	50°27.2'	9.9	52°32.4'	106.8	44°28.8'	193.1	16°04.2'	230.3	29°44.8'	264.6	29°44.8'	294.6	45°25.9'	316.0
209	50°35.5'	9.7	53°11.3'	106.7	44°16.2'	193.7	14°41.5'	230.3	29°19.6'	264.0	29°19.6'	294.0	44°57.9'	314.8
210	50°42.3'	9.6	53°43.7'	106.6	44°03.1'	194.2	13°22.8'	230.3	28°54.1'	263.3	28°54.1'	293.3	44°29.9'	313.6
211	50°47.6'	9.4	54°16.1'	106.5	43°49.6'	194.7	12°08.1'	230.3	28°28.9'	262.6	28°28.9'	292.6	44°01.9'	312.4
212	50°51.5'	9.2	54°48.9'	106.4	43°35.9'	195.2	11°00.0'	230.3	28°04.2'	262.0	28°04.2'	292.0	43°33.9'	311.2
213	50°54.0'	9.1	55°21.7'	106.3	43°22.2'	195.7	9°57.4'	230.3	27°39.9'	261.3	27°39.9'	291.3	43°05.9'	310.0
214	50°54.9'	9.0	55°54.9'	106.2	43°08.5'	196.2	9°00.0'	230.3	27°15.9'	260.6	27°15.9'	290.6	42°37.9'	308.8
215	50°54.4'	8.9	56°28.1'	106.1	42°54.8'	196.7	8°07.7'	230.3	26°51.9'	260.0	26°51.9'	289.9	42°09.9'	307.6
216	50°52.4'	8.8	57°01.3'	106.0	42°41.1'	197.2	7°15.4'	230.3	26°27.9'	259.3	26°27.9'	289.3	41°41.9'	306.4
217	50°49.9'	8.7	57°34.5'	105.9	42°27.4'	197.7	6°23.1'	230.3	26°03.9'	258.6	26°03.9'	288.6	41°13.9'	305.2
218	50°44.0'	8.6	58°07.7'	105.8	42°13.7'	198.2	5°30.8'	230.3	25°39.9'	258.0	25°39.9'	288.0	40°45.9'	304.0
219	50°37.6'	8.5	58°40.9'	105.7	41°59.9'	198.7	4°38.5'	230.3	25°15.9'	257.3	25°15.9'	287.3	40°17.9'	302.8
220	50°29.8'	8.4	59°14.1'	105.6	41°46.2'	199.2	3°46.2'	230.3	24°51.9'	256.6	24°51.9'	286.6	39°49.9'	301.6
221	50°20.9'	8.3	59°47.3'	105.5	41°32.5'	199.7	2°53.9'	230.3	24°27.9'	256.0	24°27.9'	286.0	39°21.9'	300.4
222	50°10.9'	8.2	60°20.5'	105.4	41°18.8'	200.2	2°01.6'	230.3	24°03.9'	255.3	24°03.9'	285.3	38°53.9'	299.2
223	49°59.7'	8.1	60°53.7'	105.3	41°05.1'	200.7	1°09.3'	230.3	23°39.9'	254.6	23°39.9'	284.6	38°25.9'	298.0
224	49°44.4'	8.0	61°26.9'	105.2	40°51.4'	201.2	0°17.0'	230.3	23°15.9'	254.0	23°15.9'	284.0	37°57.9'	296.8
225	49°33.3'	7.9	61°59.1'	105.1	40°37.7'	201.7	0°24.7'	230.3	22°51.9'	253.3	22°51.9'	283.3	37°29.9'	295.6
226	49°24.3'	7.8	62°32.3'	105.0	40°24.0'	202.2	0°32.4'	230.3	22°27.9'	252.6	22°27.9'	282.6	37°01.9'	294.4
227	49°15.2'	7.7	63°05.5'	104.9	40°10.3'	202.7	0°40.1'	230.3	22°03.9'	252.0	22°03.9'	282.0	36°33.9'	293.2
228	49°06.0'	7.6	63°38.7'	104.8	39°56.6'	203.2	0°47.8'	230.3	21°39.9'	251.3	21°39.9'	281.3	36°05.9'	292.0
229	48°56.7'	7.5	64°11.9'	104.7	39°42.9'	203.7	0°55.5'	230.3	21°15.9'	250.6	21°15.9'	280.6	35°37.9'	290.8
230	48°47.5'	7.4	64°45.1'	104.6	39°29.2'	204.2	1°03.2'	230.3	20°51.9'	250.0	20°51.9'	280.0	35°09.9'	289.6
231	48°38.3'	7.3	65°18.3'	104.5	39°15.5'	204.7	1°10.9'	230.3	20°27.9'	249.3	20°27.9'	279.3	34°41.9'	288.4
232	48°29.1'	7.2	65°51.5'	104.4	39°01.8'	205.2	1°18.6'	230.3	20°03.9'	248.6	20°03.9'	278.6	34°13.9'	287.2
233	48°19.9'	7.1	66°24.7'	104.3	38°48.1'	205.7	1°26.3'	230.3	19°39.9'	248.0	19°39.9'	278.0	33°45.9'	286.0
234	48°10.7'	7.0	66°57.9'	104.2	38°34.4'	206.2	1°34.0'	230.3	19°15.9'	247.3	19°15.9'	277.3	33°17.9'	284.8
235	48°01.5'	6.9	67°31.1'	104.1	38°20.7'	206.7	1°41.7'	230.3	18°51.9'	246.6	18°51.9'	276.6	32°89.9'	283.6
236	47°52.3'	6.8	68°04.3'	104.0	38°07.0'	207.2	1°49.4'	230.3	18°27.9'	246.0	18°27.9'	276.0	32°61.9'	282.4
237	47°43.1'	6.7	68°37.5'	103.9	37°53.3'	207.7	1°57.1'	230.3	18°03.9'	245.3	18°03.9'	275.3	32°33.9'	281.2
238	47°33.9'	6.6	69°10.7'	103.8	37°39.6'	208.2	2°04.8'	230.3	17°39.9'	244.6	17°39.9'	274.6	32°05.9'	280.0
239	47°24.7'	6.5	69°43.9'	103.7	37°25.9'	208.7	2°12.5'	230.3	17°15.9'	244.0	17°15.9'	274.0	31°37.9'	278.8
240	47°15.5'	6.4	70°17.1'	103.6	37°12.2'	209.2	2°20.2'	230.3	16°51.9'	243.3	16°51.9'	273.3	31°09.9'	277.6
241	47°06.3'	6.3	70°50.3'	103.5	36°58.5'	209.7	2°27.9'	230.3	16°27.9'	242.6	16°27.9'	272.6	30°81.9'	276.4
242	46°57.1'	6.2	71°23.5'	103.4	36°44.8'	210.2	2°35.6'	230.3	16°03.9'	242.0	16°03.9'	272.0	30°53.9'	275.2
243	46°47.9'	6.1	71°56.7'	103.3	36°31.1'	210.7	2°43.3'	230.3	15°39.9'	241.3	15°39.9'	271.3	30°25.9'	274.0
244	46°38.7'	6.0	72°29.9'	103.2	36°17.4'	211.2	2°51.0'	230.3	15°15.9'	240.6	15°15.9'	270.6	29°57.9'	272.8
245	46°29.5'	5.9	73°03.1'	103.1	36°03.7'	211.7	2°58.7'	230.3	14°51.9'	240.0	14°51.9'	270.0	29°29.9'	271.6
246	46°20.3'	5.8	73°36.3'	103.0	35°50.0'	212.2	3°06.4'	230.3	14°27.9'	239.3	14°27.9'	269.3	29°01.9'	270.4
247	46°11.1'	5.7	74°09.5'	102.9	35°36.3'	212.7	3°14.1'	230.3	14°03.9'	238.6	14°03.9'	268.6	28°33.9'	269.2
248	46°01.9'	5.6	74°42.7'	102.8	35°22.6'	213.2	3°21.8'	230.3	13°39.9'	238.0	13°39.9'	268.0	28°05.9'	268.0
249	45°52.7'	5.5	75°15.9'	102.7	35°08.9'	213.7	3°29.5'	230.3	13°15.9'	237.3	13°15.9'	267.3	27°37.9'	266.8
250	45°43.5'	5.4	75°49.1'	102.6	34°95.2'	214.2	3°37.2'	230.3	12°51.9'	236.6	12°51.9'	266.6	27°09.9'	265.6
251	45°34.3'	5.3	76°22.3'	102.5	34°81.5'	214.7	3°44.9'	230.3	12°27.9'	236.0	12°27.9'	266.0	26°41.9'	264.4
252	45°25.1'	5.2	76°55.5'	102.4	34°67.8'	215.2	3°							

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn							
0	*Alpheratz	02.7	35°35.1'	36.8'	*RIGEL	13°15.3'	93.8	13°00.2'	141.8	*CANOPUS	49°36.3'	159.6	37°21.2'	213.6	44°39.5'	309.8	90	34°40.3'	28.8	*REGULUS	20°29.8'	67.7	15°36.7'	152.3	57°56.7'	173.0	30°47.9'	215.1	47°17.9'	330.0	22°18.8'	352.2
1	39°46.9'	01.5	36°08.3'	35.9	14°11.2'	93.4	13°34.9'	141.6	49°55.5'	160.3	36°50.1'	213.8	43°56.1'	308.9	91	35°06.8'	27.8	21°21.5'	67.3	16°02.8'	152.2	58°03.0'	174.2	30°15.7'	215.1	46°49.3'	328.8	22°10.8'	351.4			
2	39°47.7'	00.4	36°40.8'	34.9	15°07.1'	93.1	14°09.7'	141.4	50°14.1'	161.0	36°18.9'	214.1	43°12.2'	307.9	92	35°32.6'	26.9	22°13.1'	66.7	16°29.0'	152.1	58°08.1'	175.3	29°43.4'	215.2	46°19.8'	327.6	22°02.1'	350.7			
3	39°47.9'	359.3	37°12.5'	34.0	16°03.1'	92.8	14°46.7'	141.3	50°32.0'	161.7	35°47.4'	214.3	42°27.8'	307.1	93	35°57.5'	25.9	23°04.4'	66.2	16°55.2'	152.0	58°12.1'	176.4	29°11.1'	215.3	45°49.2'	326.4	21°52.7'	350.0			
4	39°46.4'	358.1	37°43.4'	33.1	16°59.0'	92.4	15°15.8'	141.1	50°49.3'	162.4	35°15.8'	214.4	41°42.8'	306.2	94	36°21.6'	25.0	23°55.6'	65.7	17°21.6'	151.9	58°15.1'	177.6	28°38.3'	215.4	45°17.8'	325.2	21°42.6'	349.2			
5	39°44.0'	357.0	38°13.6'	32.1	17°55.0'	92.1	15°55.0'	141.0	51°05.9'	163.1	34°44.1'	214.8	40°57.4'	305.4	95	36°44.8'	24.0	24°46.6'	65.2	17°48.1'	151.8	58°16.9'	177.8	28°06.2'	215.4	44°45.4'	324.1	21°31.8'	348.5			
6	39°40.6'	355.9	38°42.9'	31.1	18°51.0'	91.7	16°30.4'	140.8	51°21.8'	163.9	34°12.2'	214.6	40°11.5'	304.5	96	37°07.1'	23.0	25°37.3'	64.6	18°14.6'	151.7	58°17.5'	179.7	27°33.8'	215.5	44°12.1'	323.0	21°20.3'	347.8			
7	39°36.0'	354.7	39°11.4'	30.1	19°47.0'	91.4	17°05.8'	140.7	51°37.0'	164.7	33°40.0'	215.0	39°25.1'	303.7	97	37°28.5'	22.0	26°27.2'	64.1	18°41.2'	151.6	58°17.1'	181.0	27°01.2'	215.5	43°38.0'	322.0	21°08.2'	347.1			
8	39°30.3'	353.6	39°39.1'	29.1	20°43.0'	91.0	17°41.4'	140.5	51°51.4'	165.5	33°08.0'	215.1	38°38.0'	303.7	98	37°49.0'	20.9	27°18.0'	63.5	19°07.9'	151.5	58°15.5'	182.2	26°28.7'	215.4	43°03.1'	320.9	20°55.3'	346.4			
9	39°23.5'	352.5	40°05.8'	28.0	21°39.0'	90.7	18°17.0'	140.4	52°05.1'	166.2	32°35.7'	215.2	37°51.1'	302.2	99	38°08.5'	19.9	28°08.0'	62.9	19°34.7'	151.4	58°12.8'	183.3	25°56.2'	215.5	42°27.4'	319.9	20°41.8'	345.7			
10	39°15.7'	351.4	40°31.7'	27.0	22°35.0'	90.3	18°52.8'	140.3	52°18.1'	167.1	32°03.4'	215.4	37°03.6'	301.5	100	38°27.1'	18.8	28°57.8'	62.3	20°01.5'	151.4	58°09.0'	184.5	25°23.6'	215.5	41°50.9'	318.9	20°27.6'	345.0			
11	39°06.7'	350.3	40°56.6'	25.9	23°31.0'	90.0	19°28.6'	140.2	52°30.2'	167.9	31°30.9'	215.6	36°15.6'	300.8	101	38°44.7'	17.8	29°29.4'	61.7	20°28.3'	151.3	58°04.3'	185.6	24°51.1'	215.5	41°13.7'	317.9	20°12.8'	344.3			
12	38°56.7'	349.2	41°20.6'	24.8	24°27.0'	89.6	20°04.5'	140.1	52°41.6'	168.7	30°58.4'	215.6	35°27.3'	299.1	102	39°01.3'	16.7	30°06.2'	61.1	20°55.2'	151.3	57°58.0'	186.7	24°18.5'	215.5	40°35.8'	317.0	19°57.3'	343.6			
13	38°45.7'	348.1	41°43.3'	23.7	25°23.1'	88.9	20°40.5'	140.0	52°52.1'	169.6	30°25.7'	215.7	34°38.6'	300.4	103	39°16.9'	15.6	31°02.3'	60.5	21°22.2'	151.3	57°50.9'	187.9	23°46.0'	215.5	39°57.2'	316.0	19°42.1'	342.9			
14	38°33.5'	347.0	42°05.5'	22.5	26°19.1'	88.9	21°16.5'	139.9	53°01.8'	170.4	29°53.0'	215.7	33°49.7'	298.7	104	39°31.4'	14.5	32°13.9'	59.8	21°49.2'	151.2	57°42.7'	189.0	23°13.4'	215.5	39°18.0'	315.1	19°24.4'	342.3			
	*Hamal	ALDEBARAN	RIGEL	*CANOPUS	ACHERNAR	*FOMALHAUT	Alpheratz	POLLUX	*REGULUS	Gienah	*ACRUX	CANOPUS	*RIGEL	BETELGEUSE																		
15	42°26.5'	21.4	24°52.2'	59.1	27°15.1'	88.5	21°52.6'	139.8	53°10.7'	171.3	61°23.4'	246.5	38°20.4'	345.9	105	39°44.9'	13.4	33°02.2'	59.2	15°58.5'	103.2	22°16.2'	151.2	57°33.5'	190.1	161°43.4'	293.1	157°33.9'	329.5			
16	42°46.4'	20.2	25°40.1'	58.5	28°11.1'	88.1	22°28.7'	139.8	53°18.8'	172.2	60°32.0'	246.8	38°06.3'	344.8	106	39°57.4'	12.3	33°50.1'	58.5	16°53.1'	102.9	22°43.2'	151.1	57°23.1'	191.1	160°51.6'	292.1	157°04.7'	327.9			
17	43°05.2'	19.1	26°27.7'	57.9	29°07.0'	87.7	23°05.0'	139.7	53°26.0'	173.1	59°40.4'	247.1	37°51.1'	343.8	107	40°08.7'	11.2	34°37.7'	57.8	17°47.7'	102.6	23°10.2'	151.1	57°11.8'	192.2	159°59.5'	291.1	156°34.3'	326.3			
18	43°22.9'	17.9	27°14.9'	57.3	30°03.0'	87.4	23°41.2'	139.7	53°32.3'	174.0	58°48.8'	247.4	37°35.0'	342.7	108	40°19.0'	10.0	35°24.9'	57.1	18°42.4'	102.3	23°37.3'	151.1	56°59.5'	193.3	159°07.1'	290.2	156°02.7'	324.8			
19	43°39.6'	16.7	28°01.9'	56.6	30°58.9'	87.0	24°17.5'	139.6	53°37.7'	174.9	57°57.0'	247.3	37°17.8'	341.7	109	40°28.2'	8.9	36°11.3'	56.4	19°37.2'	102.0	24°04.3'	151.6	56°46.1'	194.3	158°14.4'	289.3	155°29.8'	323.4			
20	43°55.0'	15.2	28°48.5'	56.0	31°54.9'	86.6	24°53.8'	139.6	53°42.3'	175.8	57°05.2'	247.3	36°59.8'	340.6	110	40°36.3'	7.8	37°06.2'	55.6	20°26.3'	101.7	24°31.3'	151.1	56°31.8'	195.3	157°21.4'	288.5	154°55.8'	321.9			
21	44°09.4'	14.2	29°34.8'	55.3	32°50.8'	86.2	25°20.2'	139.6	53°46.0'	176.7	56°13.3'	248.0	36°40.7'	339.6	111	40°43.3'	6.6	37°54.8'	54.9	21°26.9'	101.4	24°58.4'	151.2	56°16.6'	196.3	156°56.2'	287.4	154°20.7'	320.5			
22	44°22.5'	13.0	30°20.7'	54.7	33°46.6'	85.8	26°06.5'	139.5	53°48.8'	177.6	55°21.4'	248.1	36°20.8'	338.6	112	40°49.1'	5.5	38°29.8'	54.1	22°21.8'	101.1	25°25.4'	151.2	56°00.4'	197.3	155°34.6'	286.9	153°44.6'	319.2			
23	44°34.5'	11.7	31°06.2'	54.0	34°42.5'	85.6	26°42.9'	139.5	53°50.7'	178.5	54°29.4'	248.3	35°59.9'	337.6	113	40°53.9'	4.4	39°14.9'	53.3	23°16.8'	100.9	25°52.3'	151.2	55°43.3'	198.2	154°40.9'	286.2	153°07.5'	317.9			
24	44°45.3'	10.3	31°51.3'	53.3	35°38.3'	85.0	27°21.2'	139.5	53°51.7'	179.4	53°37.0'	248.3	35°38.2'	336.7	114	40°57.4'	0.3	39°59.6'	52.4	24°11.8'	100.6	26°19.3'	151.6	55°25.4'	198.2	154°52.9'	285.4	152°29.5'	316.9			
25	44°54.8'	09.2	32°36.0'	52.6	36°34.1'	84.5	27°55.6'	139.6	53°51.8'	180.4	52°45.2'	248.5	35°15.5'	335.7	115	40°59.9'	0.1	40°43.7'	51.6	25°06.9'	100.3	26°46.2'	151.3	55°05.6'	200.1	152°53.0'	284.8	151°50.6'	315.4			
26	45°03.1'	07.9	33°20.2'	51.9	37°29.8'	84.1	28°31.9'	139.6	53°51.0'	181.3	51°53.1'	248.6	34°52.1'	334.7	116	41°01.2'	0.0	41°27.4'	50.7	26°02.1'	100.0	27°13.1'	151.4	54°46.9'	201.8	151°58.7'	284.1	151°10.9'	314.2			
27	45°10.2'	06.3	34°04.1'	51.1	38°25.5'	83.7	29°08.2'	139.6	53°49.3'	182.2	51°01.0'	248.6	34°27.7'	333.8	117	41°01.3'	359.4	42°10.4'	49.8	26°57.2'	99.7	27°39.9'	151.4	54°26.5'	201.5	151°04.3'	283.5	150°30.3'	313.1			
28	45°16.0'	05.3	34°47.4'	50.3	39°21.2'	83.2	29°44.5'	139.7	53°46.7'	183.1	50°08.8'	248.7	34°02.6'	332.9	118	41°00.3'	358.4	42°53.0'	48.9	27°52.5'	99.5	28°06.6'	151.5	54°05.3'	202.7	150°09.8'	282.8	149°49.1'	312.0			
29	45°20.6'	04.0	35°30.3'	49.6	40°16.8'	82.8	30°20.7'	139.7	53°43.2'	184.0	49°16.6'	248.7	33°36.7'	332.0	119	40°58.2'	357.2	43°34.9'	48.0	28°47.7'	99.2	28°28.3'	151.6	53°43.3'	203.6	149°15.1'	282.2	149°07.1'	310.9			
	*Hamal	ALDEBARAN	*SIRIUS	*CANOPUS	ACHERNAR	*FOMALHAUT	Alpheratz	*REGULUS	*ACRUX	SPICA	*ACRUX	CANOPUS	*RIGEL	POLLUX																		
30	45°23.9'	02.7	36°12.7'	48.8	22°45.2'	100.0	30°56.9'	139.8	53°38.9'	184.9	48°24.4'	248.7	33°10.0'	331.1	120	44°16.2'	47.0	11°47.5'	97.7	28°59.9'	151.7	53°20.7'	204.3	48°20.3'	281.7	48°24.4'	309.8	40°54.9'	356.1			
31	45°25.9'	01.4	36°54.5'	47.9	23°40.4'	99.7	31°33.1'	139.8	53°33.6'	185.8	47°32.2'	248.8	32°42.2'	330.2	121	44°56.8'	46.0	12°43.0'	97.3	29°26.4'	151.8	52°57.3'	205.1	47°25.4'	281.1	47°41.4'	308.8	40°50.5'	354.9			
32	45°26.6'	00.1	37°35.9'	47.1	24°33.6'	99.4	32°09.2'	139.8	53°27.5'	186.7	46°40.0'	248.8	32°14.3'	329.3	122	45°36.6'	45.0	13°38.6'	97.0	29°52.8'	151.9	52°33.1'	205.8	46°46.7'	281.0	47°00.6'	307.8	40°45.0'	353.6			
33	45°26.1'	358.8	38°16.6'	46.2	25°30.9'	99.1	32°45.2'	140.0	53°20.5'	187.6	45°47.8'	248.8	31°45.3'	328.4	123	46°16.0'	44.0	14°34.2'	96.7	30°19.1'	152.0	52°08.5'	206.5	46°35.2'	280.0	46°12.6'	306.9	40°38.3'	352.6			
34	45°24.2'	357.5	38°56.8'	45.4	26°26.2'	98.8	33°21.2'	140.1	53°12.6'	188.5	44°55.6'	248.7	31°15.6'	327.6	124	46°54.5'	42.9	15°29.9'	96.4	30°45.4'	152.2	51°43.2'	207.2	44°40.0'	279.5	45°27.5'	305.9	40°30.5'	351.4			
35	45°21.2'	356.2	39°36.3'	44.5	27°21.6'	98.6	33°57.0'	140.3	53°03.9'	189.4	44°03.3'	248.7	30°45.3'	326.8	125	47°32.2'	41.8	16°25.6'	96.0	31°11.5'	152.3	51°17.3'	207.4	43°44.8'	279.4	44°41.9'	305.0	40°21.7'	350.3			
36	45°16.8'	354.9	40°15.3'	43.6	28°17.0'	98.3																										

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
180	37°48.4'	42.2	28°31.7'	109.6	47°31.7'	175.4	48°01.2'	227.5	51°32.3'	282.8	47°21.7'	317.9	95°27.4'	355.9
181	38°25.7'	41.3	29°23.8'	109.4	47°35.9'	176.0	47°19.8'	227.8	50°37.6'	282.2	46°43.8'	316.8	54°22.5'	354.2
182	39°02.3'	40.4	30°16.7'	109.2	47°39.5'	176.7	46°38.2'	228.1	49°42.8'	281.6	46°05.1'	315.8	54°01.1'	352.6
183	39°38.2'	39.4	31°09.6'	109.0	47°42.4'	177.4	45°56.4'	228.0	48°47.9'	281.0	45°25.6'	314.7	54°08.0'	351.4
184	40°13.4'	38.4	32°02.6'	108.8	47°44.6'	178.0	45°14.4'	228.7	47°52.8'	280.5	44°45.5'	313.7	53°58.4'	349.3
185	40°47.8'	37.4	32°55.6'	108.7	47°46.2'	178.7	44°32.3'	228.9	46°57.6'	279.9	44°04.6'	312.7	53°47.2'	347.1
186	41°21.5'	36.4	33°48.7'	108.5	47°47.1'	179.4	43°50.0'	229.2	46°02.5'	279.4	43°23.2'	311.8	53°34.5'	346.1
187	41°54.3'	35.4	34°34.1'	108.4	47°47.4'	180.0	43°27.5'	229.4	45°07.2'	278.9	42°42.1'	310.9	53°20.3'	344.5
188	42°26.4'	34.4	35°23.0'	108.2	47°47.0'	180.7	42°04.9'	229.6	44°11.8'	278.4	41°58.4'	309.9	53°04.6'	343.0
189	42°57.6'	33.3	36°16.3'	108.1	47°46.0'	181.4	41°42.2'	229.8	43°16.3'	277.9	41°15.2'	309.0	52°47.5'	341.4
190	43°27.8'	32.3	37°07.5'	107.9	47°44.3'	182.1	40°59.4'	229.9	42°20.8'	277.4	40°31.4'	308.2	52°28.9'	339.9
191	43°57.2'	31.3	37°58.9'	107.8	47°42.7'	182.8	40°16.5'	230.1	41°26.3'	277.0	39°47.1'	307.3	52°09.0'	338.4
192	44°25.6'	30.3	38°49.0'	107.7	47°39.0'	183.4	39°33.3'	230.2	40°29.6'	276.5	38°52.0'	306.5	51°47.7'	337.0
193	44°53.1'	29.3	39°39.0'	107.6	47°35.4'	184.1	38°50.3'	230.4	39°34.0'	276.1	38°07.1'	305.7	51°25.1'	335.5
194	45°19.5'	27.6	40°28.5'	107.4	47°31.1'	184.7	38°07.2'	230.5	38°38.2'	275.6	37°31.3'	304.9	51°01.3'	334.1
195	45°44.9'	26.4	41°14'25.9"	107.2	47°26.2'	185.4	37°23.9'	230.6	36°45.2'	274.3	36°03.6'	304.0	50°36.2'	332.7
196	46°09.3'	25.1	41°58'18.5"	107.0	47°20.6'	186.0	36°40.6'	230.7	35°58.7'	273.5	35°08.1'	303.0	50°10.0'	331.4
197	46°32.5'	23.9	42°41'11.0"	106.8	47°14.4'	186.7	35°57.3'	230.8	35°11.7'	272.7	34°19.4'	302.0	49°42.6'	330.0
198	46°54.7'	22.6	43°17'03.3"	106.6	47°07.6'	187.3	35°13.9'	230.8	34°24.4'	272.0	33°29.1'	301.0	49°14.1'	328.7
199	47°15.6'	21.3	43°51'55.5"	106.4	46°57.2'	187.9	34°30.4'	230.9	33°33.5'	271.3	32°34.4'	300.0	48°44.5'	327.5
200	47°35.4'	20.0	44°17'47.5"	106.2	46°46.16'	188.6	33°47.0'	230.9	32°48.7'	270.6	31°43.3'	299.0	48°13.2'	326.2
201	47°54.0'	18.7	44°43'39.3"	106.0	46°34.5'	189.2	33°03.5'	230.9	32°03.0'	270.0	30°47.42'	298.0	47°42.2'	325.0
202	48°11.3'	17.4	45°10'30.9"	105.8	46°22.0'	189.8	32°20.0'	231.0	31°11.7'	269.3	29°47.09'	297.0	47°09.6'	323.8
203	48°27.4'	16.0	45°37'22.3"	105.6	46°08.24'	190.4	31°36.5'	231.0	30°22.7'	268.6	28°56.11'	296.0	46°37.1'	322.7
204	48°42.2'	14.6	46°02'13.6"	105.4	45°54.14'	191.0	30°53.0'	231.0	29°33.4'	267.9	28°06.01'	295.0	46°06.1'	321.5
205	48°55.6'	13.2	46°23'04.6"	105.2	45°40.04'	191.6	30°09.4'	231.0	28°43.8'	267.2	27°15.45'	294.0	45°36.5'	320.4
206	49°07.8'	11.8	46°38'45.4"	105.0	45°25.34'	192.2	29°25.9'	230.9	27°54.0'	266.5	26°24.50'	293.0	45°06.5'	319.4
207	49°18.6'	10.4	46°52'46.0"	104.8	45°10.32'	192.8	28°42.5'	230.9	27°03.7'	265.8	25°34.53'	292.0	44°37.1'	318.3
208	49°28.0'	9.0	47°06'36.4"	104.6	44°55.26'	193.4	27°59.0'	230.9	26°13.6'	265.1	24°43.35'	291.0	44°07.9'	317.3
209	49°36.0'	7.5	47°20'26.5"	104.4	44°40.13'	193.9	27°15.6'	230.8	25°25.2'	264.3	23°52.45'	290.0	43°35.1'	316.3
210	49°42.6'	6.6	47°34'16.4"	104.2	44°25.13'	194.5	26°32.7'	230.7	24°32.1'	263.6	23°01.8'	289.0	43°04.5'	315.3
211	49°47.8'	5.6	47°48'06.0"	104.0	44°10.06'	195.0	25°49.3'	230.6	23°39.1'	262.9	22°10.3'	288.0	42°34.8'	314.4
212	49°51.6'	4.5	48°01'55.3"	103.8	43°55.00'	195.5	25°06.3'	230.5	22°46.1'	262.2	21°19.4'	287.0	42°05.1'	313.4
213	49°54.0'	3.4	48°15'44.0"	103.6	43°40.00'	196.0	24°23.3'	230.4	21°53.1'	261.5	20°28.4'	286.0	41°35.4'	312.5
214	49°54.9'	2.3	48°29'33.1"	103.4	43°25.00'	196.5	23°40.6'	230.3	21°00.1'	260.8	19°37.7'	285.0	41°05.7'	311.7
215	49°54.4'	1.2	48°43'21.6"	103.2	43°10.00'	197.0	22°57.9'	230.2	20°07.4'	260.1	18°46.8'	284.0	40°36.0'	311.0
216	49°52.5'	0.1	48°57'09.7"	103.0	42°55.00'	197.5	22°15.2'	230.1	19°14.7'	259.4	17°56.1'	283.0	40°06.3'	310.3
217	49°49.1'	0.0	49°10'57.8"	102.8	42°40.00'	198.0	21°32.5'	230.0	18°22.0'	258.7	17°05.4'	282.0	39°36.6'	309.6
218	49°44.3'	0.0	49°24'45.0"	102.6	42°25.00'	198.5	20°50.0'	229.9	17°30.0'	258.0	16°14.4'	281.0	39°06.9'	309.0
219	49°38.1'	0.0	49°38'32.1"	102.4	42°10.00'	199.0	20°07.5'	229.8	16°37.5'	257.3	15°23.7'	280.0	38°37.2'	308.3
220	49°30.5'	0.0	49°52'18.5"	102.2	41°55.00'	199.5	19°25.0'	229.7	15°45.0'	256.6	14°33.0'	279.0	38°07.5'	307.6
221	49°21.5'	0.0	50°06'06.0"	102.0	41°40.00'	200.0	18°42.5'	229.6	14°52.5'	255.9	13°42.5'	278.0	37°37.8'	307.0
222	49°11.1'	0.0	50°19'51.0"	101.8	41°25.00'	200.5	17°50.0'	229.5	14°00.0'	255.2	12°52.0'	277.0	37°08.1'	306.3
223	48°59.3'	0.0	50°33'36.5"	101.6	41°10.00'	201.0	17°07.5'	229.4	13°07.5'	254.5	12°01.5'	276.0	36°38.4'	305.6
224	48°46.3'	0.0	50°47'21.5"	101.4	40°55.00'	201.5	16°25.0'	229.3	12°15.0'	253.8	11°11.0'	275.0	36°08.7'	305.0
225	48°32.3'	0.0	51°01'06.0"	101.2	40°40.00'	202.0	15°42.5'	229.2	11°22.5'	253.1	10°20.5'	274.0	35°39.0'	304.3
226	48°17.8'	0.0	51°14'51.0"	101.0	40°25.00'	202.5	14°60.0'	229.1	10°30.0'	252.4	9°30.0'	273.0	35°10.0'	303.6
227	48°02.8'	0.0	51°28'36.0"	100.8	40°10.00'	203.0	13°47.5'	229.0	9°37.5'	251.7	8°40.0'	272.0	34°40.5'	303.0
228	47°47.3'	0.0	51°42'21.0"	100.6	39°55.00'	203.5	12°65.0'	228.9	8°45.0'	251.0	7°50.0'	271.0	34°11.0'	302.3
229	47°31.8'	0.0	51°56'06.0"	100.4	39°40.00'	204.0	11°82.5'	228.8	7°52.5'	250.3	7°00.0'	270.0	33°41.5'	301.6
230	47°15.8'	0.0	52°09'51.0"	100.2	39°25.00'	204.5	11°00.0'	228.7	7°00.0'	249.6	6°10.0'	269.0	33°12.0'	301.0
231	46°59.3'	0.0	52°23'36.0"	100.0	39°10.00'	205.0	10°17.5'	228.6	6°07.5'	248.9	5°20.0'	268.0	32°42.5'	300.3
232	46°42.8'	0.0	52°37'21.0"	99.8	38°55.00'	205.5	9°35.0'	228.5	5°15.0'	248.2	4°30.0'	267.0	32°13.0'	299.6
233	46°26.3'	0.0	52°51'06.0"	99.6	38°40.00'	206.0	8°52.5'	228.4	4°22.5'	247.5	3°40.0'	266.0	31°43.5'	299.0
234	46°09.8'	0.0	53°04'51.0"	99.4	38°25.00'	206.5	8°10.0'	228.3	3°30.0'	246.8	2°50.0'	265.0	31°14.0'	298.3
235	45°53.3'	0.0	53°18'36.0"	99.2	38°10.00'	207.0	7°27.5'	228.2	2°37.5'	246.1	2°00.0'	264.0	30°44.5'	297.6
236	45°36.8'	0.0	53°32'21.0"	99.0	37°55.00'	207.5	6°45.0'	228.1	1°45.0'	245.4	1°10.0'	263.0	30°15.0'	297.0
237	45°20.3'	0.0	53°46'06.0"	98.8	37°40.00'	208.0	5°62.5'	228.0	0°52.5'	244.7	0°20.0'	262.0	29°45.5'	296.3
238	45°03.8'	0.0	54°00'01.0"	98.6	37°25.00'	208.5	4°80.0'	227.9	0°00.0'	244.0	0°30.0'	261.0	29°16.0'	295.6
239	44°47.3'	0.0	54°13'46.0"	98.4	37°10.00'	209.0	3°57.5'	227.8	0°07.5'	243.3	0°40.0'	260.0	28°46.5'	295.0
240	44°30.8'	0.0	54°27'31.0"	98.2	36°55.00'	209.5	3°15.0'	227.7	0°15.0'	242.6	0°50.0'	259.0	28°17.0'	294.3
241	44°14.3'	0.0	54°41'16.0"	98.0	36°40.00'	210.0	2°32.5'	227.6	0°22.5'	241.9	1°00.0'	258.0	27°47.5'	293.6
242	43°57.8'	0.0	54°55'01.0"	97.8	36°25.00'	210.5	1°50.0'	227.5	0°30.0'	241.2	1°10.0'	257.0	27°18.0'	292.9
243	43°41.3'	0.0	55°08'46.0"	97.6	36°10.00'	211.0	1°07.5'	227.4	0°37.5'	240.5	1°20.0'	256.0	26°48.5'	292.2
244	43°24.8'	0.0	55°22'31.0"	97.4	35°55.00'	211.5	0°25.0'	227.3	0°45.0'	239.8	1°30.0'	255.0	26°19.0'	291.5
245	43°08.3'	0.0	55°36'16.0"	97.2	35°40.00'	212.0	0°02.5'	227.2	0°52.5'	239.1	1°40.0'	254.0	25°50.0'	290.8
246	42°51.8'	0.0	55°50'01.0"	97.0	35°25.00'	212.5	0°20.0'	227.1	0°00.0'	238.4	1°50.0'	253.0	25°20.5'	290.1
247	42°35.3'	0.0	56°03'46.0"	96.8	35°10.00'	213.0	0°37.5'	227.0	0°07.5'	237.7	2°00.0'	252.0	24°51.0'	289.4
248	42°18.8'	0.0	56°17'31.0"	96.6	34°55.00'	213.5	0°55.0'	226.9	0°15.0'	237.0	2°10.0'	251.0	24°21.5'	288.7
249	42°02.3'	0.0	56°31'16.0"	96.4	34°40.00'	214.0	1°12.5'	226.8	0°22.5'	236.3	2°20.0'	250.0	23°52.0'	288.0
250	41°45.8'	0.0	56°45'01.0"	96.2	34°25.00'	214.5	1°30.0'	226.7	0°30.0'	235.6	2°30.0'	249.0	23°22.5'	287.3
251	41°29.3'	0.0	56°58'46.0"	96.0	34°10.00'									

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
0	38°44.9'	02.6	34°46.9'	36.3	13°19.2'	93.6	13°47.3'	141.7	50°32.4'	159.2	38°11.1'	214.0
1	38°46.9'	01.5	35°19.6'	35.4	14°14.7'	93.2	14°21.9'	141.5	50°51.9'	159.9	37°39.9'	214.3
2	38°47.9'	00.4	35°51.0'	34.5	15°10.2'	92.8	15°16.6'	141.3	51°10.7'	160.6	37°08.5'	214.5
3	38°47.7'	359.3	36°22.6'	33.6	16°05.8'	92.8	16°15.3'	141.5	51°28.9'	161.3	36°36.9'	214.7
4	38°46.6'	358.2	36°53.0'	32.6	17°01.4'	92.1	17°06.6'	140.9	51°46.5'	162.0	36°05.3'	214.9
5	38°44.1'	357.0	37°22.6'	31.7	17°57.0'	91.7	17°61.6'	140.8	52°03.3'	162.8	35°35.3'	215.0
6	38°40.7'	356.9	37°51.4'	30.7	18°52.6'	91.4	17°16.8'	140.6	52°19.4'	163.5	35°01.3'	215.2
7	38°36.2'	354.8	38°19.4'	29.7	19°48.2'	91.2	17°52.2'	140.5	52°34.8'	164.3	34°29.2'	215.3
8	38°30.7'	353.7	38°46.5'	28.7	20°44.9'	90.6	18°07.6'	140.3	52°49.5'	165.1	33°57.0'	215.4
9	38°24.0'	352.6	39°12.8'	27.6	21°39.5'	90.3	18°03.2'	140.2	53°03.4'	165.9	33°24.6'	215.6
10	38°16.3'	351.5	39°38.1'	26.6	22°36.1'	89.9	18°08.9'	140.1	53°16.5'	166.8	32°52.2'	215.7
11	38°07.6'	350.4	40°02.7'	25.5	23°30.7'	89.6	20°03.1'	139.3	53°28.5'	167.6	32°19.7'	215.8
12	37°57.8'	349.3	40°26.0'	24.4	24°24.6'	89.2	20°50.5'	139.8	53°40.4'	168.5	31°47.0'	215.9
13	37°46.9'	348.2	40°48.5'	23.3	25°22.0'	88.8	21°26.4'	139.7	53°51.1'	169.3	31°14.7'	216.0
14	37°35.1'	347.2	41°10.0'	22.2	26°17.6'	88.4	22°02.4'	139.7	54°01.0'	170.2	30°41.6'	216.1
			*Hamal				*CANOPUS				*ACHERNAR	
15	41°30.5'	19.1	24°21.2'	58.7	27°13.2'	88.0	22°38.4'	139.6	54°10.0'	171.1	51°46.5'	248.2
16	41°50.0'	21.25	25°08.5'	58.1	28°08.8'	87.6	23°31.5'	139.5	54°18.2'	172.0	50°54.8'	248.3
17	42°08.4'	18.8	25°55.6'	57.5	29°04.4'	87.2	23°50.7'	139.4	54°25.5'	172.9	50°03.0'	248.7
18	42°25.8'	17.6	26°42.3'	56.8	29°59.9'	86.8	24°26.9'	139.4	54°31.9'	173.8	49°51.1'	248.9
19	42°42.0'	16.4	27°30.7'	56.2	30°50.7'	86.5	25°03.8'	139.3	54°37.5'	174.7	49°38.6'	249.1
20	42°57.2'	15.2	28°14.8'	55.3	31°51.0'	86.0	25°29.4'	139.3	54°42.1'	175.7	49°25.7'	249.2
21	43*11.2'	14.0	29°00.4'	54.9	32°46.4'	85.5	26°15.7'	139.2	54°45.9'	176.6	49°13.4'	249.3
22	43*24.0'	12.8	29°45.8'	54.2	33*41.9'	85.1	26°52.1'	139.2	54°48.7'	177.5	48°55.4'	249.5
23	43*35.7'	11.5	30*30.7'	53.5	34*37.3'	84.7	27*28.4'	139.2	54*50.7'	178.5	48*51.5'	249.6
24	43*46.3'	10.3	31*15.2'	52.8	35*32.7'	84.3	28*08.4'	139.2	54*51.7'	179.4	48*53.8'	249.6
25	43*55.6'	09.0	31*59.3'	52.1	36*28.0'	83.8	28*41.1'	139.2	54*51.8'	180.4	48*53.0'	249.7
26	44*03.7'	07.8	32*43.0'	51.3	37*23.3'	83.4	29*17.4'	139.2	54*51.0'	181.3	48*52.5'	249.8
27	44*10.6'	06.5	33*26.2'	50.6	38*18.5'	82.9	29*53.8'	139.2	54*50.3'	182.2	48*51.2'	249.8
28	44*16.3'	05.2	34*08.9'	49.8	39*13.7'	82.4	30*30.1'	139.3	54*46.6'	183.2	48*50.3'	249.8
29	44*20.7'	03.9	34*51.2'	49.0	40*08.8'	82.0	31*06.4'	139.3	54*43.1'	184.1	48*49.3'	249.8
			Hamal				*CANOPUS				*ACHERNAR	
30	44*23.9'	02.7	35*32.9'	48.2	22*55.4'	81.6	31*42.6'	139.4	54*38.6'	185.1	48*45.6'	249.8
31	44*25.9'	01.4	36*14.1'	47.4	23*50.3'	81.3	32*18.8'	139.4	54*33.3'	186.0	47*53.4'	249.8
32	44*26.6'	00.1	36*54.8'	46.6	24*45.5'	80.9	33*05.0'	139.5	54*27.1'	186.9	47*01.2'	249.8
33	44*26.1'	358.8	37*34.9'	45.7	25*40.2'	80.6	33*51.0'	139.6	54*19.9'	187.8	46*09.0'	249.7
34	44*24.3'	357.5	38*14.4'	44.8	26*35.2'	80.3	34*07.1'	139.7	54*12.0'	188.7	45*16.8'	249.7
35	44*21.3'	356.3	38*53.3'	43.9	27*30.3'	79.8	34*43.0'	139.8	54*03.1'	189.6	44*24.7'	249.6
36	44*17.0'	355.0	39*31.6'	43.0	28*25.4'	79.7	35*18.9'	139.9	53*53.4'	190.5	43*32.3'	249.6
37	44*11.5'	353.7	40*09.1'	42.0	29*20.5'	79.7	35*54.6'	140.1	53*42.9'	191.3	42*40.4'	249.5
38	44*04.8'	352.4	40*46.0'	41.1	30*15.7'	79.1	36*30.3'	140.2	53*31.5'	192.2	41*48.3'	249.4
39	43*56.9'	351.1	41*22.2'	40.1	31*10.9'	78.6	37*05.8'	140.4	53*19.4'	193.0	40*56.3'	249.3
40	43*47.7'	349.4	41*57.7'	39.2	32*06.2'	78.3	37*41.2'	140.5	53*06.4'	193.9	40*04.2'	249.2
41	43*37.4'	348.7	42*32.3'	38.0	33*01.5'	78.0	38*16.5'	140.7	52*52.7'	194.7	39*12.2'	249.1
42	43*25.9'	347.4	43*06.2'	37.0	33*56.8'	77.5	38*52.3'	140.9	52*38.2'	195.5	38*20.3'	249.0
43	43*13.2'	346.2	43*39.3'	35.9	34*51.9'	77.0	39*26.6'	141.1	52*23.0'	196.3	37*28.3'	248.9
44	42*59.4'	345.0	44*11.4'	34.8	35*47.5'	76.5	40*01.5'	141.4	52*07.0'	197.1	36*36.4'	248.8
			*CAPPELLA				*CANOPUS				*ACHERNAR	
45	15*07.1'	24.1	13*45.7'	60.7	36*42.9'	94.9	40*36.1'	141.6	51*50.3'	197.8	35*44.6'	248.7
46	15*29.5'	23.5	38*34.0'	60.0	37*38.4'	94.6	41*10.5'	141.9	51*33.0'	198.6	34*52.8'	248.5
47	15*51.4'	22.9	39*22.0'	59.2	38*33.8'	94.3	41*44.8'	142.1	51*14.9'	199.3	34*01.1'	248.4
48	16*12.7'	22.2	40*09.6'	58.5	39*26.3'	94.0	42*18.8'	142.4	50*59.3'	200.3	33*09.0'	248.3
49	16*33.5'	21.6	40*56.9'	57.7	40*24.8'	93.7	42*52.6'	142.7	50*36.9'	200.7	32*17.7'	248.1
50	16*53.7'	21.0	41*43.0'	56.9	41*20.4'	93.3	43*26.2'	143.0	50*17.0'	201.4	31*26.1'	247.9
51	17*13.3'	20.3	42*30.0'	56.0	42*15.9'	93.0	43*59.5'	143.4	49*56.4'	202.0	30*26.3'	247.8
52	17*32.3'	19.4	43*15.9'	55.2	43*11.5'	92.7	44*32.6'	143.7	49*35.3'	202.6	29*43.7'	247.6
53	17*50.8'	18.9	44*01.3'	54.3	44*07.0'	92.5	45*03.4'	144.1	49*13.6'	203.3	28*51.8'	247.4
54	18*08.6'	18.4	44*46.2'	53.4	45*02.6'	92.0	45*37.8'	144.5	48*51.3'	203.9	28*00.9'	247.2
55	18*25.8'	17.7	45*30.6'	52.4	45*58.2'	91.7	46*10.0'	144.9	48*28.6'	204.5	27*09.2'	247.0
56	18*42.4'	17.0	46*14.4'	51.5	46*53.8'	91.4	46*41.8'	145.3	48*05.3'	205.2	26*18.0'	246.8
57	18*58.4'	16.4	46*57.6'	50.5	47*49.5'	91.0	47*13.3'	145.8	47*41.5'	205.6	25*26.9'	246.6
58	19*13.7'	15.7	47*40.7'	49.5	48*48.1'	90.6	47*44.4'	146.2	47*17.2'	206.1	24*53.8'	246.5
59	19*28.5'	15.0	48*22.2'	48.4	49*40.7'	90.2	48*15.1'	146.7	46*52.5'	206.6	23*44.9'	246.3
			CAPPELLA				*CANOPUS				*ACHERNAR	
60	19*42.5'	14.3	49*03.4'	47.3	50*36.4'	89.9	48*45.5'	147.2	46*27.4'	207.1	44*04.6'	266.0
61	19*55.9'	13.6	49*43.9'	46.2	51*32.0'	89.5	49*15.4'	147.7	46*01.8'	207.6	43*09.1'	265.7
62	20*08.6'	12.9	50*23.7'	45.1	52*27.6'	89.1	49*44.8'	148.3	45*35.8'	208.1	42*13.7'	265.4
63	20*20.7'	12.2	51*02.7'	43.9	53*23.2'	88.7	50*13.8'	148.9	45*09.4'	208.5	41*18.2'	265.1
64	20*32.1'	11.5	51*40.8'	42.6	54*18.8'	88.5	50*42.4'	149.4	44*48.2'	209.0	40*22.8'	264.8
65	20*42.8'	10.7	52*18.0'	41.4	55*14.4'	87.9	51*10.4'	150.1	44*15.5'	209.4	39*27.4'	264.5
66	20*52.8'	10.0	52*54.3'	40.1	56*10.0'	87.4	51*37.9'	150.7	43*48.0'	209.8	38*35.4'	264.2
67	21*02.2'	09.3	53*29.7'	38.8	57*05.6'	87.0	52*04.9'	151.3	43*20.2'	210.2	37*36.7'	263.9
68	21*10.8'	08.6	54*04.0'	37.4	58*01.1'	86.5	52*52.1'	152.0	42*52.0'	210.6	36*41.5'	263.6
69	21*18.8'	07.8	54*47.3'	36.0	58*56.6'	86.1	53*26.0'	152.7	42*23.6'	210.9	35*46.3'	263.3
70	21*26.0'	07.1	55*09.4'	34.5	59*52.1'	85.6	54*01.5'	153.4	41*54.9'	211.3	34*51.0'	263.0
71	21*32.5'	06.6	55*40.3'	33.0	60*47.6'	85.1	53*46.7'	154.2	41*25.9'	211.6	33*55.8'	262.7
72	21*38.3'	05.8	56*10.0'	31.5	61*43.0'	84.6	54*16.0'	155.0	40*56.6'	211.9	33*00.6'	262.4
73	21*43.4'	04.9	56*38.4'	29.9	62*38.3'	84.0	54*53.7'	155.8	40*27.0'	212.2	32*05.5'	262.1
74	21*47.8'	04.1	57*05.5'	28.3	63*33.6'	83.4	55*26.2'	156.6	39*57.3'	212.5	31*10.4'	261.8
			*CAPPELLA				*CANOPUS				*ACHERNAR	
75												

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
180	37°03.7'	41.7	28°50.8'	109.0	48°31.5'	175.3	48°41.4'	228.3	51°18.4'	284.0	46°37.0'	318.5	65°27.5'	356.0
181	37°40.4'	40.8	29°43.4'	108.8	48°35.8'	176.0	47°59.8'	228.6	50°24.3'	283.4	45°59.8'	317.5	53°22.8'	354.3
182	38°16.4'	39.8	30°36.1'	108.6	48°39.4'	176.6	47°18.0'	228.9	49°30.1'	282.7	45°21.8'	316.5	55°16.6'	352.7
183	38°51.7'	38.9	31°28.9'	108.4	48°42.3'	177.3	46°35.9'	229.2	48°35.8'	282.1	44°44.3'	315.5	56°08.8'	351.9
184	39°26.2'	37.9	32°21.7'	108.3	48°44.6'	178.0	45°53.7'	229.4	47°41.4'	281.6	44°03.8'	314.5	57°02.9'	349.5
185	40°00.0'	36.9	33°14.5'	108.1	48°46.2'	178.7	45°11.4'	229.7	46°46.8'	281.0	43°23.7'	313.5	57°45.6'	348.0
186	40°33.1'	35.9	34°07.4'	107.9	48°47.1'	179.4	44°28.9'	229.9	45°52.1'	280.4	42°42.9'	312.4	58°23.6'	346.4
187	41°05.3'	34.9	35°00.4'	107.7	48°47.4'	180.0	43°46.3'	230.1	44°57.4'	279.9	42°01.6'	311.5	58°52.2'	344.9
188	41°36.7'	33.8	35°53.4'	107.5	48°47.0'	180.7	43°03.5'	230.4	44°02.5'	279.4	41°19.6'	310.5	59°20.7'	343.9
189	42°07.2'	32.8	36°46.5'	107.4	48°46.0'	181.4	42°20.7'	230.5	43°07.6'	278.8	40°37.1'	309.7	59°49.5'	341.8
190	42°36.9'	31.7	37°39.6'	107.2	48°44.3'	182.1	41°37.7'	230.6	42°12.6'	278.3	39°54.0'	308.8	60°18.5'	340.3
191	43°05.7'	30.6	38°32.8'	107.0	48°42.3'	182.8	40°54.7'	230.8	41°17.5'	277.8	39°10.1'	308.0	60°47.1'	338.9
192	43°33.5'	29.4	39°26.0'	106.9	48°38.9'	183.5	40°11.6'	231.0	40°22.4'	277.4	38°26.3'	307.1	61°15.2'	337.4
193	44°00.4'	28.3	40°19.3'	106.7	48°35.2'	184.1	39°28.4'	231.0	39°27.2'	276.9	37°41.9'	306.3	61°50.4'	336.0
194	44°26.2'	27.1	41°12.6'	106.6	48°30.9'	184.8	38°45.1'	231.1	38°31.9'	276.4	36°56.7'	305.5	62°20.7'	334.6

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
270	28°33.7'	08.3	48°41.2'	244.5	23°25.8'	113.8	46°07.8'	151.6	38°12.7'	208.2	69°10.4'	253.1	30°05.6'	322.5
271	28°41.4'	07.5	49°19.9'	43.4	24°16.8'	113.6	46°34.0'	152.1	37°46.3'	208.4	68°17.1'	253.4	29°31.4'	321.7
272	28°48.2'	06.6	49°57.6'	42.2	25°07.8'	113.4	46°59.8'	152.3	37°19.7'	208.7	67°23.7'	253.7	28°56.7'	320.9
273	28°54.1'	05.7	50°34.6'	41.0	25°58.9'	113.2	47°25.1'	153.6	36°52.1'	209.0	66°30.3'	253.9	28°21.3'	320.2
274	28°59.2'	04.8	51°11.6'	39.7	26°50.0'	113.0	47°50.0'	153.7	36°25.9'	209.2	65°36.8'	254.1	27°44.4'	319.4
275	29°03.5'	03.9	51°45.7'	38.5	27°41.3'	112.8	48°14.5'	154.2	35°58.7'	209.4	64°43.2'	254.3	27°17.8'	318.7
276	29°06.8'	03.0	52°19.8'	37.2	28°32.6'	112.7	48°38.4'	154.8	35°31.3'	209.6	63°49.7'	254.5	26°31.9'	317.9
277	29°09.3'	02.1	52°52.9'	35.8	29°23.9'	112.5	49°01.0'	155.4	35°03.7'	209.8	62°56.1'	254.6	25°54.4'	317.2
278	29°11.7'	01.0	53°24.9'	34.0	30°15.4'	112.3	49°24.8'	156.0	34°36.0'	210.0	62°02.2'	254.7	25°25.6'	316.5
279	29°11.7'	00.4	53°55.8'	33.0	31°06.9'	112.1	49°47.1'	156.6	34°08.2'	210.1	61°08.8'	254.7	24°37.8'	315.8
280	29°11.7'	359.5	54°25.4'	31.5	31°58.5'	112.0	50°08.9'	157.3	33°34.0'	210.3	60°15.1'	254.8	23°58.8'	315.2
281	29°10.7'	358.6	54°53.9'	30.0	32°50.1'	111.8	50°30.9'	157.9	33°12.0'	210.5	59°21.1'	254.9	23°19.4'	314.5
282	29°08.9'	357.7	55°21.2'	28.5	33°41.7'	111.7	50°50.0'	158.6	32°43.8'	210.6	58°27.4'	254.9	22°39.5'	313.9
283	29°06.2'	356.8	55°47.0'	26.9	34°33.5'	111.5	51°10.8'	159.3	32°15.4'	210.7	57°34.0'	254.9	22°19.2'	313.2
284	29°02.7'	355.9	56°11.5'	25.3	35°25.2'	111.4	51°30.1'	160.0	31°46.9'	210.9	56°40.3'	254.9	21°18.4'	312.6

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
195	44°51.1'	25.9	14°05.5'	69.9	42°05.9'	106.4	48°25.9'	185.5	38°01.8'	231.2	36°11.1'	304.8	49°42.8'	333.3
196	45°14.9'	24.7	14°57.6'	69.5	42°59.3'	106.3	48°20.1'	186.1	37°18.4'	231.3	35°25.3'	304.0	49°17.1'	331.9
197	45°37.6'	23.5	15°49.7'	69.0	43°52.7'	106.2	48°14.0'	186.8	36°35.0'	231.3	34°39.0'	303.3	48°50.4'	330.6
198	45°59.2'	22.2	16°41.5'	68.5	44°46.1'	106.0	48°07.1'	187.4	35°51.5'	231.4	33°52.3'	302.6	48°22.6'	329.3
199	46°19.7'	21.0	17°33.2'	68.1	45°39.6'	105.9	47°59.8'	188.1	35°08.1'	231.4	33°05.3'	301.9	47°53.7'	328.1
200	46°39.0'	19.9	18°24.9'	67.6	46°33.1'	105.8	47°51.6'	188.7	34°24.6'	231.4	32°17.9'	301.1	47°25.8'	326.8
201	46°57.1'	18.7	19°16.6'	67.1	47°26.7'	105.7	47°42.7'	189.4	33°41.1'	231.5	31°30.1'	300.5	46°52.9'	325.6
202	47°14.0'	17.0	20°07.2'	66.6	48°20.2'	105.6	47°33.3'	190.0	32°57.6'	231.5	30°42.0'	299.9	46°21.0'	324.5
203	47°29.7'	15.0	20°58.1'	66.1	49°13.8'	105.4	47°23.4'	190.6	32°14.1'	231.5	29°53.6'	299.2	45°48.2'	323.3
204	47°44.1'	14.3	21°48.9'	65.5	50°07.4'	105.3	47°12.8'	191.2	31°30.5'	231.4	29°04.0'	298.4	45°14.5'	322.2
205	47°57.2'	13.0	22°39.4'	65.0	51°01.1'	105.4	47°01.7'	191.8	30°47.1'	231.4	28°15.9'	298.0	44°40.0'	321.1
206	48°09.0'	11.0	23°29.7'	64.5	51°54.7'	105.3	46°50.0'	192.4	30°03.6'	231.4	27°26.7'	297.4	44°04.0'	320.0
207	48°19.5'	10.2	24°19.8'	63.9	52°48.4'	105.2	46°37.8'	193.0	29°20.1'	231.3	26°37.1'	296.8	43°28.5'	319.0
208	48°28.7'	08.8	25°09.6'	63.3	53°42.1'	105.2	46°25.0'	193.6	28°36.7'	231.3	25°47.3'	296.2	42°51.6'	317.9
209	48°36.5'	07.4	25°59.2'	62.8	54°35.8'	105.2	46°11.6'	194.2	27°53.3'	231.2	24°57.3'	295.6	42°13.9'	316.9

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
210	48°43.0'	05.9	26°48.6'	62.2	55°29.5'	105.1	50°25.9'	172.2	45°57.8'	194.7	65°23.0'	275.5	41°35.6'	316.0
211	48°48.0'	04.5	27°37.6'	61.6	56°23.2'	105.1	50°33.3'	172.9	45°43.4'	195.3	64°27.6'	275.0	40°56.6'	315.0
212	48°51.7'	03.0	28°26.4'	61.0	57°16.9'	105.0	50°39.6'	173.7	45°28.5'	195.8	63°32.2'	274.5	40°16.9'	314.1
213	48°54.0'	01.6	29°14.9'	60.3	58°10.6'	105.0	50°45.4'	174.4	45°13.1'	196.3	62°36.7'	273.9	39°36.7'	313.2
214	48°54.9'	00.2	30°03.1'	59.7	59°04.3'	105.1	50°50.4'	175.2	44°57.2'	196.8	61°41.2'	273.5	38°58.5'	312.3
215	48°54.4'	358.8	30°51.0'	59.1	59°58.0'	105.0	50°54.7'	176.0	44°40.8'	197.4	60°45.7'	273.0	38°14.3'	311.4
216	48°52.5'	357.3	31°38.5'	58.4	60°51.7'	105.0	50°58.2'	176.7	44°24.0'	197.8	59°50.0'	272.5	37°32.3'	310.5
217	48°49.3'	355.9	32°25.7'	57.6	61°45.3'	105.0	51°01.7'	177.4	44°06.7'	198.3	58°54.5'	272.1	36°48.8'	309.7
218	48°44.6'	354.5	33°12.6'	57.0	62°39.0'	105.4	51°03.1'	178.3	43°49.0'	198.8	57°58.9'	271.7	36°06.8'	308.9
219	48°38.5'	353.0	33°59.0'	56.3	63°32.6'	105.5	51°04.4'	179.0	43°30.9'	199.3	57°03.7'	271.3	35°23.2'	308.1
220	48°31.7'	351.6	34°45.1'	55.6	64°26.2'	105.6	51°05.1'	179.7	43°12.3'	199.7	56°07.3'	270.9	34°39.9'	307.3
221	48°22.4'	350.2	35°30.3'	54.8	65°19.7'	105.8	51°04.8'	180.6	42°53.3'	200.2	55°12.0'	270.5	33°54.8'	306.6
222	48°12.2'	348.8	36°16.1'	54.1	66°13.2'	106.0	51°03.8'	181.4	42°34.0'	200.6	54°16.4'	270.1	33°09.9'	305.9
223	48°00.8'	347.3	37°00.9'	53.3	67°06.7'	106.2	51°02.2'	182.2	42°14.2'	201.0	53°20.8'	269.7	32°24.6'	305.1
224	47°48.1'	346.1	37°45.2'	52.5	68°00.1'	106.5	50°59.7'	182.9	41°54.1'	201.4	52°25.1'	269.4	31°38.9'	304.4

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
225	40°35.8'	10.5	38°29.1'	51.6	12°09.9'	75.0	22°40.9'	143.9	50°56.5'	183.7	65°09.5'	291.8	47°34.0'	344.7
226	40°45.4'	09.3	39°12.5'	50.8	13°03.3'	74.6	23°13.7'	143.8	50°52.6'	184.4	64°17.7'	290.7	47°18.7'	343.4
227	40°53.8'	08.1	39°56.3'	49.9	13°56.9'	74.2	23°46.6'	143.8	50°47.9'	185.2	63°25.5'	289.7	47°02.2'	342.0
228	41°01.1'	07.0	40°37.6'	49.1	14°50.4'	73.7	24°19.5'	143.7	50°42.5'	185.9	62°32.9'	288.7	46°44.4'	340.7
229	41°07.3'	05.8	41°19.3'	48.1	15°43.3'	73.3	24°52.4'	143.7	50°36.4'	186.7	61°40.1'	287.8	46°26.4'	339.4
230	41°12.4'	04.6	42°00.5'	47.2	16°36.9'	72.8	25°25.3'	143.7	50°29.6'	187.4	60°47.0'	286.9	46°05.0'	338.1
231	41°16.3'	03.4	42°42.1'	46.3	17°30.0'	72.4	25°58.3'	143.7	50°22.0'	188.2	59°53.6'	286.1	45°44.0'	336.9
232	41°19.0'	02.4	43°20.9'	45.4	18°23.3'	71.9	26°31.3'	143.7	50°13.8'	188.9	59°00.0'	285.3	45°21.6'	335.6
233	41°20.6'	01.1	44°00.0'	44.3	19°15.8'	71.4	27°04.2'	143.7	50°04.8'					

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Contains star data for Hamal, RIGEL, CANOPUS, ACHERNAR, Peacock, and Enif.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Contains star data for POLLUX, *REGULUS, ACRUX, CANOPUS, *ACHERNAR, *ALDEBARAN, and CAPELLA.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Contains star data for *Hamal, ALDEBARAN, RIGEL, *CANOPUS, ACHERNAR, *FOMALHAUT, and Alpheratz.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Contains star data for POLLUX, *REGULUS, Giannah, *ACRUX, CANOPUS, *RIGEL, and BETELGEUSE.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Contains star data for Hamal, *ALDEBARAN, SIRIUS, *CANOPUS, ACHERNAR, *FOMALHAUT, and Alpheratz.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Contains star data for *REGULUS, SPICA, *ACRUX, CANOPUS, *RIGEL, BETELGEUSE, and POLLUX.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Contains star data for *CAPELLA, BETELGEUSE, SIRIUS, *CANOPUS, ACHERNAR, *FOMALHAUT, and Hamal.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Contains star data for REGULUS, *SPICA, ACRUX, *CANOPUS, SIRIUS, BETELGEUSE, and *POLLUX.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Contains star data for CAPELLA, BETELGEUSE, *SIRIUS, CANOPUS, *ACHERNAR, Diphda, *Hamal, and REGULUS.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Contains star data for REGULUS, *ARCTURUS, SPICA, *ACRUX, CANOPUS, SIRIUS, and *PROCYON.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Contains star data for *CAPELLA, POLLUX, PROCYON, *Suhail, CANOPUS, *ACHERNAR, Hamal, and *ARCTURUS.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Contains star data for *ARCTURUS, ANTARES, *ACRUX, CANOPUS, SIRIUS, and *PROCYON.

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
180	36°18.7'	41.2	29°10.1'	108.5	49°31.3'	175.2	49°21.0'	229.2	51°03.2'	285.2	45°51.7'	319.3	352°27.7'	356.1
181	36°54.8'	40.3	30°02.6'	108.3	49°35.6'	175.9	48°39.1'	229.5	50°09.9'	284.5	45°15.3'	318.2	52°23.1'	354.5
182	37°30.1'	39.3	30°55.0'	108.1	49°39.3'	176.6	47°57.1'	229.7	49°16.3'	283.9	44°38.1'	317.1	52°17.0'	352.9
183	38°04.8'	38.4	31°47.6'	107.9	49°42.2'	177.3	47°14.8'	230.0	48°22.6'	283.2	44°00.0'	316.1	52°09.5'	351.3
184	38°38.7'	37.4	32°40.2'	107.6	49°44.5'	178.0	46°32.4'	230.2	47°28.8'	282.6	43°21.5'	315.1	52°00.4'	349.8
185	39°11.9'	36.4	33°32.8'	107.4	49°46.2'	178.7	45°49.9'	230.5	46°34.8'	282.0	42°42.2'	314.1	51°49.9'	348.2
186	39°44.3'	35.4	34°25.5'	107.2	49°47.1'	179.3	45°07.2'	230.7	45°40.8'	281.4	42°02.2'	313.1	51°37.9'	346.7
187	40°15.9'	34.3	35°18.3'	107.0	49°47.4'	180.4	44°24.2'	231.0	44°46.6'	280.9	41°21.6'	312.2	51°24.5'	345.2
188	40°46.7'	33.4	36°11.2'	106.8	49°47.0'	181.0	43°46.1'	231.3	43°56.2'	280.3	40°40.0'	311.1	51°09.6'	343.7
189	41°16.7'	32.3	37°04.1'	106.6	49°46.0'	181.4	42°58.6'	231.2	42°57.9'	279.8	39°58.5'	310.3	50°53.5'	342.2
190	41°45.7'	31.2	37°57.0'	106.4	49°44.3'	182.1	42°15.5'	231.3	42°03.4'	279.2	39°16.2'	309.5	50°35.9'	340.8
191	42°13.9'	30.1	38°50.0'	106.3	49°41.9'	182.8	41°32.4'	231.4	41°08.9'	278.7	38°33.3'	308.6	50°17.0'	339.3
192	42°41.1'	29.0	39°43.0'	106.1	49°38.8'	183.5	40°49.1'	231.6	40°14.2'	278.2	37°49.8'	307.8	49°56.9'	337.9
193	43°07.4'	27.9	40°35.1'	105.9	49°35.1'	184.2	40°05.9'	231.7	39°19.1'	277.7	37°05.0'	307.0	49°35.5'	336.5
194	43°32.7'	26.7	41°29.3'	105.7	49°30.7'	184.9	39°22.5'	231.7	38°24.8'	277.2	36°21.6'	306.2	49°12.9'	335.1

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
270	27°34.4'	08.3	47°58.2'	43.7	23°49.9'	113.4	47°00.4'	151.1	39°05.5'	208.6	69°26.5'	255.7	29°17.9'	322.8
271	27°41.9'	07.4	48°36.0'	42.6	24°40.6'	113.2	47°26.9'	151.6	38°38.9'	208.8	68°33.0'	255.9	28°44.2'	322.0
272	27°48.6'	06.5	49°12.9'	41.4	25°31.4'	113.0	47°52.9'	152.1	38°12.2'	209.1	67°49.4'	256.0	28°10.0'	321.3
273	27°54.4'	05.6	49°49.0'	40.2	26°22.3'	112.8	48°18.5'	152.6	37°45.3'	209.3	66°35.8'	256.2	27°35.1'	320.5
274	27°59.4'	04.8	50°24.2'	39.0	27°13.3'	112.6	48°43.7'	153.2	37°18.2'	209.5	65°52.1'	256.3	26°59.7'	319.7
275	28°03.6'	03.9	50°58.5'	37.7	28°04.3'	112.3	49°08.4'	153.7	36°50.0'	209.7	64°58.5'	256.4	26°23.7'	319.0
276	28°06.9'	03.0	51°31.7'	36.4	28°55.4'	112.1	49°32.6'	154.3	36°23.4'	209.9	64°04.8'	256.4	25°47.2'	318.3
277	28°09.4'	02.1	52°04.0'	35.0	29°46.6'	111.9	49°56.3'	154.9	35°55.7'	210.1	63°11.1'	256.5	25°10.2'	317.5
278	28°11.0'	01.2	52°35.2'	33.9	30°37.9'	111.8	50°18.5'	155.5	35°27.7'	210.3	62°17.4'	256.5	24°32.7'	316.8
279	28°11.7'	00.4	53°05.2'	32.3	31°29.2'	111.6	50°42.1'	156.1	34°50.0'	210.5	61°23.7'	256.5	23°54.7'	316.2
280	28°11.7'	359.5	53°34.1'	30.8	32°20.6'	111.4	51°04.2'	156.8	34°31.9'	210.6	60°30.0'	256.5	23°16.2'	315.5
281	28°10.8'	358.6	54°01.8'	29.3	33°12.1'	111.2	51°25.6'	157.4	34°03.7'	210.8	59°36.3'	256.5	22°37.2'	314.8
282	28°09.2'	357.8	54°28.2'	27.8	34°03.6'	111.0	51°46.5'	158.1	33°35.3'	210.9	58°42.6'	256.5	21°57.8'	314.2
283	28°06.3'	356.7	54°53.3'	26.3	34°55.2'	110.9	52°06.8'	158.8	33°06.9'	211.1	57°48.9'	256.4	21°18.0'	313.5
284	28°02.9'	355.9	55°17.1'	24.7	35°46.8'	110.7	52°26.4'	159.6	32°38.3'	211.2	56°55.2'	256.4	20°37.7'	312.9

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
195	43°57.0'	25.5	13°44.8'	69.7	42°22.5'	105.6	49°25.6'	185.6	38°39.1'	231.8	35°36.8'	305.4	48°49.1'	333.8
196	44°02.3'	24.3	14°36.6'	69.2	43°15.7'	105.4	49°19.9'	186.3	37°55.7'	231.9	34°51.5'	304.6	48°24.1'	332.5
197	44°42.5'	23.1	15°28.0'	68.8	44°08.9'	105.2	49°13.6'	186.9	37°12.2'	231.9	34°05.9'	303.9	47°58.0'	331.2
198	45°03.6'	21.8	16°19.4'	68.3	45°02.3'	105.1	49°06.6'	187.6	36°28.8'	231.9	33°19.8'	303.1	47°30.8'	329.9
199	45°23.6'	20.6	17°10.7'	67.8	45°55.6'	104.8	48°59.0'	188.3	35°45.3'	232.0	32°33.3'	302.4	47°02.6'	328.6
200	45°42.4'	19.3	18°01.7'	67.3	46°48.9'	104.6	48°50.7'	189.0	35°01.6'	232.0	31°46.3'	301.7	46°33.2'	327.4
201	46°00.0'	18.1	18°52.5'	66.8	47°42.4'	104.4	48°41.9'	189.6	34°18.2'	232.0	30°59.9'	301.0	46°03.2'	326.2
202	46°16.6'	16.7	19°43.2'	66.2	48°35.8'	104.5	48°32.4'	190.2	33°34.7'	232.0	30°11.9'	300.4	45°32.0'	325.1
203	46°31.9'	15.4	20°33.6'	65.7	49°29.3'	104.4	48°22.3'	191.0	32°51.2'	232.0	29°24.2'	299.7	44°59.9'	323.9
204	46°45.9'	14.1	21°23.9'	65.2	50°22.8'	104.3	48°11.7'	191.4	32°07.8'	231.9	28°36.0'	299.1	44°26.9'	322.8
205	46°58.7'	12.7	22°13.9'	64.6	51°16.4'	104.2	48°00.4'	192.1	31°24.3'	231.9	27°47.6'	298.4	43°53.1'	321.7
206	47°10.2'	11.4	23°03.7'	64.1	52°09.9'	104.1	47°48.6'	192.7	30°40.8'	231.8	26°58.9'	297.8	43°18.5'	320.6
207	47°20.5'	10.2	23°53.2'	63.5	53°03.5'	104.0	47°36.2'	193.3	29°57.4'	231.8	26°09.9'	297.2	42°43.0'	319.6
208	47°29.4'	08.6	24°42.5'	62.9	53°57.1'	103.9	47°23.3'	193.8	29°14.1'	231.7	25°20.6'	296.4	42°06.8'	318.5
209	47°37.0'	07.2	25°31.6'	62.3	54°50.8'	103.8	47°09.8'	194.2	28°30.7'	231.6	24°31.1'	296.1	41°29.9'	317.5

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
210	47°43.3'	05.8	26°20.4'	61.7	55°44.4'	103.7	51°25.4'	172.0	46°55.8'	195.0	65°16.1'	277.7	40°52.3'	316.6
211	47°48.2'	04.2	27°08.9'	61.1	56°38.1'	103.6	51°32.7'	172.8	46°41.2'	195.0	64°21.3'	277.1	40°13.9'	315.6
212	47°51.8'	03.0	27°57.1'	60.5	57°31.7'	103.6	51°39.2'	173.5	46°26.2'	196.1	63°26.5'	276.5	39°35.0'	314.7
213	47°54.0'	01.6	28°45.0'	59.9	58°25.4'	103.5	51°45.1'	174.3	46°10.6'	196.6	62°31.6'	275.9	38°55.4'	313.7
214	47°54.9'	00.2	29°32.6'	59.2	59°19.1'	103.5	51°50.2'	175.1	45°54.6'	197.1	61°36.6'	275.3	38°15.1'	312.9
215	47°54.9'	358.8	30°19.9'	58.5	60°12.8'	103.5	51°54.5'	175.9	45°38.0'	197.7	60°41.6'	274.8	37°34.4'	312.0
216	47°52.6'	357.4	31°06.8'	57.9	61°06.5'	103.5	51°58.1'	176.6	45°21.1'	198.2	59°46.9'	274.3	36°53.1'	311.1
217	47°49.4'	356.0	31°53.4'	57.2	62°00.2'	103.5	52°01.0'	177.4	45°03.6'	198.6	58°51.4'	273.8	36°11.2'	310.3
218	47°44.9'	354.6	32°39.7'	56.5	62°54.0'	103.5	52°03.1'	178.2	44°45.8'	199.1	57°56.3'	273.3	35°28.8'	309.5
219	47°39.0'	353.2	33°25.5'	55.7	63°47.4'	103.5	52°04.4'	179.0	44°27.4'	199.6	57°01.0'	272.8	34°46.0'	308.7
220	47°31.0'	351.8	34°11.0'	55.0	64°41.3'	103.5	52°05.1'	179.8	44°08.7'	200.0	56°06.0'	272.4	33°42.0'	307.9
221	47°23.2'	350.4	34°56.0'	54.2	65°35.0'	103.7	52°04.8'	180.6	43°49.6'	200.5	55°10.8'	271.9	33°18.8'	307.1
222	47°13.4'	349.0	35°40.6'	53.5	66°28.8'	103.8	52°03.8'	181.4	43°30.1'	200.9	54°15.6'	271.5	32°34.3'	306.4
223	47°02.2'	347.7	36°24.7'	52.7	67°22.3'	103.8	52°02.1'	182.2	43°10.2'	201.3	53°20.4'	271.1	31°49.9'	305.6
224	46°49.8'	346.3	37°08.4'	51.9	68°15.9'	104.1	51°59.6'	183.0	42°49.9'	201.7	52°25.1'	270.7	31°04.8'	304.9

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
225	39°36.3'	10.3	37°51.6'	51.0	11°54.0'	74.8	23°29.3'	143.6	51°56.4'	183.7	64°46.3'	293.8	84°36.1'	345.0
226	39°46.2'	09.2	38°34.3'	50.2	12°47.3'	74.4	24°02.1'	143.6	51°52.4'	184.5	63°55.5'	292.6	84°21.2'	343.7
227	39°54.4'	08.0	39°16.4'	49.3	13°40.4'	73.9	24°34.9'	143.5	51°47.7'	185.3	63°03.4'	291.6	84°05.7'	342.4
228	40°01.6'	06.9	39°58.0'	48.4	14°33.4'	73.5	25°07.3'	143.5	51°42.2'	186.1	62°12.8'	290.9	83°47.0'	341.1
229	40°07.6'	05.7	40°39.1'	47.5	15°26.3'	73.0	25°40.7'	143.4	51°36.0'	186.8	61°20.0'	289.8	83°25.9'	339.8
230	40°12.6'	04.5	41°19.5'	46.6	16°19.1'	72.6	26°13.6'	143.4	51°29.1'	187.6	60°28.7'	289.6	83°05.9'	338.5
231	40°16.4'	03.4	41°59.3'	45.6	17°11.7'	72.1	26°46.5'	143.5	51°21.4'	188.4	59°36.2'	289.7	82°44.8'	337.3
232	40°19.1'	02.4	42°38.4'	44.6	18°04.2'	71.6	27°19.5'	143.5	51°13.0'	189.1	58°43.5'	286.9	82°24.9'	336.1
233	40°20.6'	01.2	43°16.8'	43.8	18°56.5'	71.1	27°52.5'	143.3	51°03.9'					

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn							
180	35	33.4'	40.7	29	28.9'	108.0	50	31.1'	175.1	49	59.9'	230.1	50	46.9'	286.4	45	06.5'	320.0	05	127.8'	356.1
181	36	08.8'	39.8	30	21.1'	107.7	50	35.5'	175.8	49	17.8'	230.3	49	54.2'	285.7	44	30.3'	318.9	51	23.4'	354.6
182	36	43.6'	38.9	31	13.4'	107.5	50	39.1'	176.5	48	35.5'	230.6	49	01.4'	285.0	43	53.9'	317.8	85	117.5'	353.1
183	37	17.6'	37.9	32	05.7'	107.3	50	42.2'	177.0	48	08.3'	230.8	48	08.3'	284.3	43	16.7'	316.8	85	110.1'	351.5
184	37	50.9'	36.9	32	58.0'	107.0	50	44.5'	177.9	47	10.5'	231.1	47	15.2'	283.7	42	38.8'	315.7	01	31.3'	350.0
185	38	23.5'	36.3	33	50.5'	106.8	50	46.1'	178.6	46	27.8'	231.3	46	21.8'	283.0	42	00.2'	314.7	50	51.1'	348.5
186	38	55.3'	35.0	34	43.0'	106.6	50	47.1'	179.3	45	45.0'	231.5	45	28.4'	282.4	41	20.9'	313.8	80	39.4'	347.0
187	39	26.3'	33.9	35	35.6'	106.3	50	47.4'	180.4	45	02.0'	231.4	44	34.8'	281.8	40	40.1'	312.8	80	26.4'	345.5
188	39	56.5'	32.9	36	28.2'	106.1	50	47.8'	180.4	44	19.0'	231.1	43	41.1'	281.2	40	00.5'	311.9	95	120.0'	344.0
189	40	25.8'	31.8	37	20.9'	105.9	50	46.0'	181.5	43	35.9'	231.9	42	47.3'	280.7	39	19.4'	311.0	49	56.3'	342.6
190	40	54.3'	30.8	38	13.6'	105.7	50	44.2'	182.2	42	52.7'	232.0	41	53.3'	280.1	38	37.8'	310.1	49	39.2'	341.1
191	41	21.9'	29.7	39	06.4'	105.5	50	41.8'	182.9	42	09.5'	232.1	40	59.3'	279.6	37	55.6'	309.2	49	20.8'	339.2
192	41	48.6'	28.6	39	59.3'	105.3	50	38.7'	183.6	41	26.2'	232.2	40	05.2'	279.0	37	12.8'	308.4	49	01.2'	338.0
193	42	14.3'	27.4	40	52.2'	105.1	50	34.9'	184.3	40	42.8'	232.3	39	11.1'	279.8	36	29.9'	307.5	48	40.0'	337.3
194	42	39.0'	26.3	41	45.1'	104.9	50	30.5'	185.0	39	59.4'	232.4	38	16.8'	278.0	35	45.9'	306.7	48	18.3'	335.6

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn								
270	26	35.0'	08.2	47	14.5'	43.0	24	13.5'	113.0	47	52.9'	150.6	39	58.1'	209.0	69	40.0'	258.3	28	30.0'	323.2	
271	26	42.4'	07.3	47	51.5'	41.8	25	04.0'	112.8	48	19.6'	151.1	39	31.4'	209.2	68	46.3'	258.4	27	56.8'	322.4	
272	26	48.9'	06.5	48	27.7'	40.7	25	54.6'	112.5	48	45.8'	151.6	39	04.6'	209.5	67	52.6'	258.4	27	23.1'	321.6	
273	26	54.7'	05.6	49	02.9'	39.5	26	45.3'	112.3	49	11.7'	152.1	39	58.9'	209.7	66	58.9'	258.5	26	48.7'	320.8	
274	26	59.6'	04.7	49	37.3'	38.2	27	36.1'	112.1	49	37.1'	152.6	38	10.3'	209.9	66	05.2'	258.5	25	38.1'	320.1	
275	27	03.7'	03.9	50	10.8'	37.0	28	28	26.9'	111.8	50	02.1'	153.3	37	42.8'	210.1	65	11.5'	258.5	23	48.4'	319.3
276	27	07.0'	03.0	50	43.2'	35.7	29	17.8'	111.6	50	26.5'	153.8	37	15.3'	210.3	64	17.8'	258.5	25	02.4'	318.6	
277	27	09.4'	02.1	51	14.7'	34.3	30	08.8'	111.4	50	50.5'	154.4	36	47.5'	210.5	63	24.1'	258.4	24	25.8'	317.9	
278	27	11.1'	01.2	51	45.1'	33.0	30	09	59.9'	111.2	51	25.1	155.0	35	16.6'	210.7	62	30.0'	258.4	23	48.8'	317.2
279	27	11.8'	00.4	52	14.2'	31.6	31	51.0'	111.0	51	36.9'	155.6	35	51.6'	210.8	61	36.7'	258.3	23	11.3'	316.5	
280	27	11.7'	359.5	52	42.4'	30.1	32	42.2'	110.8	51	59.2'	156.3	35	23.4'	211.0	60	43.1'	258.2	22	33.3'	315.8	
281	27	10.8'	358.6	53	09.3'	28.7	33	33.5'	110.6	52	05.0'	156.9	34	55.1'	211.1	59	49.9'	258.2	21	54.8'	315.1	
282	27	09.0'	28.6	53	05.0'	27.2	34	24.8'	110.4	52	03.2'	157.6	34	26.6'	211.3	58	58.5'	258.1	21	15.0'	314.4	
283	27	06.4'	356.9	53	59.4'	25.7	35	16.2'	110.2	53	02.6'	158.4	33	58.2'	211.4	58	02.2'	258.0	20	36.5'	313.8	
284	27	03.0'	356.0	54	22.5'	24.1	36	07.7'	110.0	53	22.5'	159.1	33	29.6'	211.5	57	08.6'	257.9	19	56.8'	313.1	

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn							
195	43	02.8'	25.1	13	23.8'	69.5	42	38.1'	104.7	50	25.3'	185.7	39	16.1'	232.4	35	01.1'	305.9	47	55.1'	334.0
196	43	25.5'	23.9	14	15.1'	69.0	43	31.2'	104.5	50	19.6'	186.4	38	32.5'	232.5	34	17.2'	305.2	47	30.0'	333.3
197	43	47.2'	22.7	15	06.2'	68.5	44	24.2'	104.3	50	13.1'	187.1	37	49.0'	232.8	33	32.2'	304.4	47	05.3'	331.7
198	44	07.8'	21.5	15	57.1'	68.0	45	17.4'	104.1	50	06.1'	187.8	37	05.5'	232.5	32	46.8'	303.7	46	38.8'	330.4
199	44	27.3'	20.2	16	27.4'	67.5	46	10.6'	103.9	49	58.4'	188.4	36	22.0'	232.5	31	06.1'	309.2	46	20.8'	329.2
200	44	45.7'	19.0	17	38.4'	67.0	47	03.8'	103.8	49	50.0'	189.1	35	38.5'	232.5	31	14.1'	302.4	45	42.7'	328.0
201	45	03.0'	17.7	18	28.7'	66.5	47	57.0'	103.6	49	41.0'	189.7	34	55.0'	232.5	30	28.2'	301.5	45	13.1'	326.8
202	45	19.1'	16.4	19	18.9'	65.9	48	50.3'	103.4	49	31.4'	190.4	34	11.5'	232.5	29	41.4'	300.9	44	42.6'	325.6
203	45	34.0'	15.1	20	08.8'	65.4	49	43.7'	103.3	49	21.3'	191.0	33	28.0'	232.5	28	54.1'	300.2	44	11.1'	324.5
204	45	47.7'	13.8	20	58.5'	64.8	50	37.0'	103.1	49	10.5'	191.7	32	44.5'	232.4	28	45.6'	299.4	43	39.0'	323.4
205	46	00.1'	12.5	21	48.0'	64.3	51	30.4'	103.0	48	59.1'	192.3	32	01.1'	232.4	27	18.8'	298.9	43	05.8'	322.3
206	46	11.4'	11.2	22	37.3'	63.7	52	23.9'	102.8	48	47.4'	192.9	31	17.7'	232.3	26	30.6'	298.3	42	31.2'	321.2
207	46	21.4'	09.8	23	26.3'	63.1	53	17.3'	102.7	48	34.9'	193.5	30	34.4'	232.2	26	42.2'	297.4	41	57.2'	320.2
208	46	30.0'	08.5	24	15.0'	62.5	54	10.8'	102.5	48	21.5'	194.1	29	51.1'	232.2	24	53.5'	297.1	41	21.7'	319.1
209	46	37.5'	07.1	25	03.5'	61.9	55	04.4'	102.4	48	07.8'	194.7	29	07.8'	232.1	24	04.6'	296.5	40	45.3'	318.1

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn							
210	46	43.6'	05.7	25	51.8'	61.3	55	57.9'	102.3	52	24.8'	171.8	47	53.7'	195.3	65	07.0'	279.8	40	08.5'	317.1
211	46	48.4'	04.3	26	39.7'	60.7	56	51.5'	102.2	52	32.2'	172.6	47	39.0'	195.8	64	12.9'	279.1	39	30.9'	316.2
212	46	51.9'	03.0	27	27.3'	60.0	57	45.1'	102.0	52	38.1'	173.4	47	33.1'	196.4	63	18.7'	278.4	38	52.6'	314.9
213	46	54.1'	01.6	28	14.7'	59.4	58	38.3'	101.7	52	44.8'	174.2	47	08.1'	196.9	62	24.5'	277.8	38	13.7'	314.3
214	46	54.9'	00.2	29	01.7'	58.7	59	32.3'	101.9	52	49.9'	175.0	46	51.9'	197.5	61	30.1'	277.1	37	34.2'	313.4
215	46	54.4'	358.8	29	48.4'	58.1	60	26.0'	101.8	52	54.4'	175.8	46	35.2'	198.0	60	35.7'	276.5	36	54.1'	312.5
216	46	52.7'	357.3	30	43.7'	57.6	62	19.6'	101.7	52	58.0'	176.6	46	18.0'	198.5	59	41.1'	276.0	35	43.2'	311.7
217	46	45.9'	356.1	31	31.0'	57.4	63	13.1'	101.6	53	00.9'	177.4	46	00.4'	199.0	58	46.6'	275.4	34	33.2'	310.8
218	46	45.1'	354.7	32	06.3'	55.9	63	07.0'	101.6	53	03.0'	178.2	45	42.4'	199.5	57	52.1'	274.9	34	50.5'	310.0
219	46	43.4'	353.3	32	51.5'	55.2	64	00.7'	101.5	53	05.4'	179.0	45	23.9'	199.9	56	57.4'	274.3	33	30.8'	309.2
220	46	42.1'	351.9	33	36.3'	54.5	64	54.4'	101.4	53	05.0'	179.8	45	05.0'	200.4	56	02.0'	274.3	33	25.5'	308.4
221	46	42.4'	350.6	34	20.7'	53.7	65	48.1'	101.3	53	04.8'	180.6	44	45.7'	200.8	55	08.0'	273.3	32	42.4'	307.6
222	46	41.4'	349.2	35	04.6'	52.9	66	41.8'	101.2	53	03.8'	181.4	44	26.1'	201.3	54	13.3'	272.9	31	58.7'	306.9
223	46	40.6'	347.9	35	58.4'	52.1	67	35.1'	101.1	53	02.1'	182.4	44	06.0'	201.7	53	18.6'	272.4	31	14.7'	306.1
224	45	51.5'	346.6	36	36.3'	51.3	68	29.2'	101.0	52	5										

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn
	*Alpheratz		Hamal		*RIGEL		CANOPUS		*ACHERNAR		*Peacock		Enif	
0	35°45.1'	02.5	32°20.9'	35.2	13°29.2'	92.8	16°08.0'	141.2	53°19.9'	157.8	40°39.9'	215.4	42°01.3'	312.6
1	35°47.0'	01.5	32°51.9'	34.3	14°23.5'	92.4	16°42.2'	140.9	53°40.2'	158.5	40°07.4'	215.6	41°20.9'	311.7
2	35°47.9'	00.4	33°22.1'	33.4	15°17.9'	92.0	17°16.5'	140.7	53°59.8'	159.2	39°35.6'	215.8	40°40.0'	310.7
3	35°47.7'	359.3	33°51.7'	32.4	16°12.7'	92.1	17°51.0'	140.5	54°18.8'	160.0	39°03.7'	216.0	39°58.5'	309.8
4	35°46.6'	358.2	34°20.0'	31.5	17°06.6'	91.2	18°25.6'	140.3	54°37.0'	160.7	38°31.7'	216.2	39°36.5'	308.9
5	35°44.4'	357.2	34°48.5'	30.5	17°01.0'	90.8	19°00.4'	140.2	54°54.6'	161.5	37°59.5'	216.3	39°13.9'	308.0
6	35°41.2'	356.1	35°15.7'	29.6	18°55.3'	90.3	19°35.3'	140.0	55°11.5'	162.3	37°27.3'	216.5	37°50.8'	307.2
7	35°36.9'	355.0	35°42.2'	28.6	19°49.7'	89.9	20°10.4'	139.8	55°27.6'	163.2	36°54.9'	216.6	37°30.3'	306.3
8	35°31.7'	353.9	36°07.8'	27.6	20°45.1'	89.5	20°45.5'	139.6	55°43.0'	164.0	36°22.4'	216.7	36°07.2'	305.5
9	35°25.5'	352.9	36°32.5'	26.6	21°38.5'	89.1	21°20.8'	139.5	55°57.6'	164.9	35°54.9'	216.8	35°38.7'	304.7
10	35°18.2'	351.8	36°56.4'	25.5	22°32.8'	88.6	22°15.6'	139.3	56°11.4'	165.8	35°27.2'	216.9	34°53.8'	303.9
11	35°10.0'	350.8	37°19.4'	24.5	23°27.2'	88.2	22°51.7'	139.2	56°24.3'	166.7	34°44.5'	217.0	34°08.5'	303.2
12	35°00.8'	349.7	37°41.1'	23.4	24°21.5'	87.8	23°27.0'	139.1	56°36.5'	167.6	34°11.7'	217.1	33°22.8'	302.4
13	34°50.6'	348.7	38°02.6'	22.4	25°15.9'	87.3	23°42.9'	138.9	56°47.7'	168.5	33°38.9'	217.2	32°36.7'	301.7
14	34°39.4'	347.6	38°22.8'	21.3	26°10.2'	86.9	24°18.7'	138.8	56°58.2'	169.4	33°06.1'	217.2	31°50.2'	301.0
	*Hamal		ALDEBARAN		RIGEL		*CANOPUS		*ACHERNAR		*FOMALHAUT		Alpheratz	
15	38°42.1'	20.2	22°46.0'	57.6	27°04.5'	86.4	24°54.5'	138.7	57°07.7'	170.4	62°45.4'	253.6	34°27.3'	346.6
16	39°00.3'	19.1	23°31.8'	56.9	27°58.7'	86.0	25°30.3'	138.6	57°16.3'	171.4	61°53.2'	253.7	34°14.2'	345.6
17	39°17.6'	17.9	24°17.2'	56.3	28°52.9'	85.5	26°06.5'	138.5	57°24.0'	172.3	61°01.0'	253.7	34°00.0'	344.6
18	39°33.8'	16.8	25°02.2'	55.6	29°47.1'	85.1	26°42.5'	138.4	57°30.8'	173.3	60°08.8'	253.8	33°45.3'	343.6
19	39°49.0'	15.7	25°46.9'	55.0	30°41.3'	84.7	27°21.6'	138.3	57°36.7'	174.3	59°16.6'	253.8	33°30.4'	342.6
20	40°03.2'	14.6	26°31.3'	54.3	31°35.4'	84.2	27°54.8'	138.3	57°41.6'	175.3	58°24.4'	253.8	33°15.7'	341.6
21	40°16.3'	13.5	27°15.2'	53.3	32°29.5'	83.6	28°32.0'	138.2	57°45.6'	176.3	57°32.1'	253.8	32°55.0'	340.6
22	40°28.3'	12.2	27°58.8'	52.9	33°23.5'	83.1	29°07.3'	138.2	57°48.6'	177.3	56°39.9'	253.7	32°36.5'	339.6
23	40°39.2'	11.0	28°41.9'	52.3	34°17.5'	82.6	29°43.6'	138.1	57°50.6'	178.4	55°47.7'	253.7	32°17.1'	338.7
24	40°49.0'	9.9	29°24.6'	51.4	35°11.4'	82.1	30°19.9'	138.1	57°51.7'	179.4	54°53.6'	253.6	31°57.3'	337.9
25	40°57.7'	8.6	30°06.9'	50.7	36°05.2'	81.6	30°56.2'	138.1	57°51.8'	180.4	54°03.0'	253.6	31°35.9'	336.8
26	41°05.3'	7.4	30°48.8'	49.9	36°59.0'	81.1	31°32.6'	138.1	57°50.9'	181.4	53°11.3'	253.5	31°14.0'	335.8
27	41°11.7'	6.2	31°30.1'	49.1	37°52.6'	80.7	32°08.9'	138.0	57°49.1'	182.4	52°19.1'	253.4	30°51.4'	334.9
28	41°17.0'	5.0	32°11.0'	48.3	38°46.2'	80.0	32°45.3'	138.1	57°46.3'	183.4	51°27.0'	253.3	30°27.9'	334.0
29	41°21.1'	3.8	32°51.4'	47.5	39°39.7'	79.5	33°21.6'	138.1	57°42.6'	184.5	50°34.9'	253.2	30°03.7'	333.1
	Hamal		*ALDEBARAN		SIRIUS		*CANOPUS		*ACHERNAR		*FOMALHAUT		Alpheratz	
30	41°24.1'	02.5	33°31.2'	46.7	23°23.4'	98.3	33°57.9'	138.1	57°37.9'	185.5	49°42.9'	253.1	29°38.7'	332.2
31	41°25.9'	01.3	34°10.5'	45.9	24°17.2'	97.9	34°34.2'	138.1	57°32.2'	186.5	48°50.9'	253.0	29°13.0'	331.4
32	41°26.6'	00.1	34°49.1'	45.0	25°11.1'	97.3	35°10.5'	138.2	57°25.6'	187.4	47°58.9'	252.9	28°46.6'	330.5
33	41°26.1'	358.9	35°27.4'	44.1	26°05.0'	96.7	35°46.8'	138.2	57°18.1'	188.4	47°07.0'	252.7	28°19.9'	329.6
34	41°24.5'	357.6	36°04.9'	43.2	26°59.0'	96.8	36°22.9'	138.3	57°09.7'	189.4	46°15.0'	252.6	27°51.6'	328.8
35	41°21.7'	356.4	36°41.9'	42.3	27°53.0'	96.3	36°59.1'	138.4	57°00.4'	190.3	45°23.2'	252.5	27°23.1'	328.0
36	41°17.7'	355.2	37°18.1'	41.4	28°46.1'	95.6	37°35.2'	138.5	56°50.5'	191.3	44°31.3'	252.3	26°54.0'	327.2
37	41°12.6'	354.0	37°53.7'	40.4	29°41.2'	95.0	38°11.1'	138.6	56°39.1'	192.2	43°39.6'	252.2	26°24.1'	326.4
38	41°06.3'	352.8	38°28.7'	39.5	30°35.3'	95.4	38°47.1'	138.7	56°27.2'	193.1	42°47.8'	252.0	25°53.7'	325.6
39	40°58.9'	351.6	39°02.0'	38.5	31°29.4'	95.0	39°22.9'	138.8	56°14.4'	194.0	41°56.1'	251.8	25°22.7'	324.8
40	40°50.4'	350.4	39°36.3'	37.5	32°23.6'	94.6	39°58.7'	139.0	56°00.8'	194.9	41°04.5'	251.7	24°51.0'	324.0
41	40°40.8'	349.2	40°09.0'	36.4	33°17.8'	94.2	40°34.3'	139.1	55°46.4'	195.8	40°12.9'	251.5	24°18.8'	323.3
42	40°30.0'	348.0	40°40.9'	35.4	34°12.1'	93.9	41°09.8'	139.3	55°31.2'	196.6	39°21.4'	251.3	23°46.0'	322.5
43	40°18.2'	346.8	41°12.0'	34.3	35°06.4'	93.4	41°45.2'	139.5	55°15.2'	197.5	38°29.9'	251.1	23°12.6'	321.8
44	40°05.2'	345.7	41°42.2'	33.2	36°00.6'	93.1	42°20.4'	139.7	54°58.5'	198.3	37°38.5'	250.9	22°38.7'	321.1
	*CAPELLA		BETELGEUSE		SIRIUS		*CANOPUS		*ACHERNAR		*FOMALHAUT		Hamal	
45	12°22.6'	23.8	36°15.0'	58.8	36°56.5'	92.7	42°55.5'	139.9	54°41.1'	199.1	36°47.1'	250.7	39°51.1'	344.5
46	12°44.2'	23.2	37°01.3'	58.0	37°49.3'	92.3	43°30.5'	140.1	54°23.0'	199.9	35°55.8'	250.5	39°36.2'	343.4
47	13°05.3'	22.6	37°47.2'	57.2	38°43.4'	91.9	44°05.2'	140.4	54°04.0'	200.6	35°04.6'	250.3	39°20.1'	342.2
48	13°26.9'	21.9	38°32.7'	56.4	39°38.6'	91.4	44°39.8'	140.7	53°44.7'	201.4	34°13.4'	250.1	39°03.0'	341.1
49	13°46.6'	21.3	39°17.8'	55.6	40°33.3'	91.1	45°14.1'	140.9	53°24.6'	202.1	33°22.3'	249.9	38°44.9'	340.0
50	14°05.4'	20.7	40°02.4'	54.7	41°26.7'	90.7	45°48.3'	141.2	53°03.8'	202.8	32°31.3'	249.7	38°25.8'	338.9
51	14°24.3'	20.0	40°46.6'	53.8	42°21.1'	90.3	46°22.3'	141.5	52°42.5'	203.5	31°40.3'	249.4	38°06.7'	337.8
52	14°42.7'	19.4	41°30.2'	52.9	43°15.5'	89.9	46°56.0'	141.9	52°20.5'	204.1	30°49.9'	249.2	37°44.7'	336.7
53	15°00.5'	18.7	42°13.3'	52.0	44°09.8'	89.4	47°29.4'	142.2	51°58.0'	204.8	29°58.6'	249.0	37°22.8'	335.7
54	15°17.6'	18.1	42°55.9'	51.1	45°04.0'	89.0	48°02.6'	142.6	51°35.0'	205.4	29°07.7'	248.8	36°59.9'	334.6
55	15°34.2'	17.4	43°38.3'	50.1	45°58.6'	88.6	48°35.5'	143.0	51°11.4'	206.0	28°17.3'	248.5	36°36.2'	333.6
56	15°50.2'	16.8	44°19.4'	49.1	46°52.9'	88.1	49°07.4'	143.4	50°47.4'	206.7	27°26.7'	248.3	36°11.6'	332.6
57	16°05.6'	16.1	45°00.0'	48.1	47°47.3'	87.7	49°40.4'	143.8	50°22.8'	207.2	26°36.2'	248.0	35°46.1'	331.6
58	16°20.3'	15.4	45°40.4'	47.1	48°41.6'	87.2	50°12.3'	144.3	49°57.8'	207.7	25°45.9'	247.7	35°21.9'	330.6
59	16°34.5'	14.7	46°19.8'	46.0	49°35.9'	86.7	50°43.9'	144.7	49°32.3'	208.2	24°55.6'	247.5	34°52.7'	329.6
	CAPELLA		BETELGEUSE		*SIRIUS		CANOPUS		*ACHERNAR		Diphda		*Hamal	
60	16°48.0'	14.0	46°58.6'	44.9	50°30.2'	86.2	51°15.1'	145.2	49°06.4'	208.7	44°12.6'	268.9	34°26.8'	328.6
61	17°00.8'	13.4	47°36.6'	43.8	51°24.4'	85.7	51°45.9'	145.7	48°40.1'	209.2	43°18.2'	268.8	33°54.1'	327.7
62	17°13.1'	12.7	48°13.8'	42.6	52°18.6'	85.2	52°16.3'	146.3	48°13.4'	209.6	42°23.9'	268.7	33°26.7'	326.8
63	17°24.7'	12.0	48°50.2'	41.4	53°12.8'	84.7	52°46.3'	146.8	47°46.4'	210.1	41°29.5'	267.7	32°56.5'	325.9
64	17°35.6'	11.3	49°25.8'	40.2	54°06.9'	84.1	53°15.8'	147.4	47°18.9'					

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn															
ARCTURUS			*ANTARES			ACRUX			*Suhail			Alphard			REGULUS			*Denebola											
180	34°47.8'	40.2	29°47.2'	107.4	51°30.9'	175.0	50°38.0'	231.0	50°29.4'	287.6	44°19.8'	320.6	50°27.9'	356.2	270	25°35.6'	08.1	46°30.4'	42.3	24°36.8'	112.6	48°45.0'	150.0	40°50.5'	209.4	69°50.8'	261.0	27°41.9'	323.5
181	35°22.6'	39.3	30°39.1'	107.2	51°35.3'	175.7	49°55.7'	231.3	49°37.4'	286.8	43°44.9'	319.5	50°23.6'	354.7	271	25°42.9'	07.3	47°06.6'	41.1	25°27.1'	112.3	49°11.9'	150.5	40°23.7'	209.6	68°57.1'	260.9	27°09.2'	322.7
182	35°56.7'	38.4	31°31.1'	106.9	51°39.0'	176.4	49°13.2'	231.5	48°45.3'	286.1	43°09.2'	318.4	50°17.9'	353.2	272	25°49.3'	06.4	47°41.9'	39.9	26°17.4'	112.1	49°38.6'	151.0	39°56.7'	209.9	68°03.4'	260.9	26°30.0'	321.9
183	36°02.1'	37.3	32°53.2'	106.7	51°42.1'	177.1	48°30.6'	231.7	47°52.9'	285.4	42°32.8'	317.4	50°10.8'	351.7	273	25°55.3'	05.5	48°16.4'	38.7	27°07.8'	111.8	50°04.6'	151.0	39°29.5'	210.1	67°09.7'	260.9	26°02.1'	321.1
184	37°02.8'	36.5	33°15.3'	106.4	51°44.4'	177.9	47°47.4'	231.9	47°00.4'	284.7	41°55.6'	316.4	50°02.2'	350.2	274	25°59.8'	04.7	48°50.0'	37.5	27°58.4'	111.6	50°30.3'	152.1	39°02.2'	210.3	66°16.1'	260.7	25°27.7'	320.4
185	37°34.8'	35.5	34°07.5'	106.2	51°46.1'	178.6	47°05.0'	232.1	46°07.0'	283.1	41°17.1'	315.4	49°52.3'	348.7	275	26°03.9'	03.8	49°22.6'	36.3	28°49.0'	111.3	50°55.5'	152.7	38°34.6'	210.5	65°22.4'	260.2	24°52.7'	319.6
186	38°06.0'	34.5	34°59.8'	105.9	51°47.1'	179.3	46°22.0'	232.3	45°14.9'	283.4	40°39.2'	314.4	49°49.1'	347.3	276	26°07.1'	03.0	49°54.3'	35.0	29°39.7'	111.1	51°20.2'	153.2	38°07.0'	210.7	64°28.8'	260.5	24°17.3'	318.9
187	38°36.4'	33.5	35°52.1'	105.7	51°47.4'	180.4	45°39.0'	232.4	44°22.0'	282.8	40°00.0'	313.4	49°28.3'	345.8	277	26°09.5'	02.1	50°24.9'	33.6	30°30.4'	110.9	51°44.5'	153.8	37°39.1'	210.9	63°35.2'	260.4	23°41.2'	318.2
188	39°06.0'	32.5	36°45.5'	105.4	51°47.0'	180.4	44°55.8'	232.4	43°28.4'	282.3	39°20.2'	312.5	49°14.3'	347.4	278	26°11.0'	01.2	50°54.5'	32.3	31°21.1'	110.6	52°08.7'	154.8	37°11.1'	211.2	62°41.1'	260.3	23°04.7'	317.4
189	39°34.7'	31.4	37°36.9'	105.2	51°45.9'	181.5	44°12.6'	232.7	42°35.7'	281.6	38°39.8'	311.6	48°59.0'	342.9	279	26°11.8'	00.4	51°23.0'	30.9	32°12.2'	110.4	52°31.4'	155.1	36°43.0'	211.2	61°48.0'	260.1	22°27.7'	316.7
190	40°02.6'	30.3	38°29.5'	104.9	51°44.2'	182.2	43°29.3'	232.8	41°42.3'	281.0	37°58.9'	310.7	48°42.4'	341.5	280	26°11.7'	359.5	51°50.4'	29.5	33°03.2'	110.2	52°54.0'	155.7	36°14.7'	211.4	60°54.4'	260.0	21°50.2'	316.1
191	40°29.6'	29.2	39°22.0'	104.7	51°41.7'	183.0	42°46.0'	232.9	40°48.9'	280.4	37°18.1'	309.8	48°24.5'	340.5	281	26°10.8'	358.6	52°16.5'	28.1	33°54.3'	110.0	53°16.2'	156.4	35°46.4'	211.5	60°00.9'	259.9	21°12.2'	315.4
192	40°55.7'	28.1	40°14.7'	104.5	51°38.6'	183.7	42°02.6'	233.0	39°55.4'	279.9	36°35.4'	308.4	48°05.1'	338.7	282	26°10.3'	357.7	52°41.5'	26.6	34°45.4'	109.8	53°37.5'	157.1	35°17.4'	211.6	59°07.3'	259.7	20°33.8'	314.7
193	41°20.9'	27.0	41°07.3'	104.2	51°34.7'	184.4	41°19.2'	233.0	39°01.6'	279.3	35°52.8'	309.1	47°45.1'	337.4	283	26°06.5'	356.9	53°05.2'	25.1	35°36.6'	109.6	53°58.3'	157.8	34°49.3'	211.8	58°13.8'	259.9	19°54.9'	314.1
194	41°45.1'	25.9	42°00.1'	104.0	51°30.2'	185.1	40°35.7'	233.1	38°08.1'	278.8	35°09.8'	307.3	47°23.6'	336.1	284	26°03.1'	356.0	53°27.6'	23.6	36°27.9'	109.3	54°18.5'	158.6	34°20.6'	211.9	57°20.4'	259.4	19°15.6'	313.4
ARCTURUS			*Rasalhague			ANTARES			*ACRUX			Suhail			*REGULUS			Denebola											
195	42°08.4'	24.7	13°02.7'	69.3	42°52.9'	103.8	51°25.0'	185.8	39°52.3'	233.1	34°26.3'	306.5	47°01.0'	334.7	285	15°54.3'	18.4	37°19.3'	109.1	15°50.0'	146.2	33°51.9'	212.0	56°26.9'	259.2	47°12.9'	328.9	25°59.0'	355.2
196	42°30.6'	23.1	13°53.5'	68.8	43°45.7'	103.6	51°19.2'	186.5	39°08.8'	233.1	33°42.4'	305.7	46°37.2'	333.5	286	16°11.2'	17.3	38°10.7'	109.0	16°20.3'	146.0	33°23.1'	212.1	55°33.5'	259.1	46°44.3'	327.6	25°04.0'	354.3
197	42°51.8'	22.3	14°44.1'	68.3	44°38.6'	103.3	51°12.7'	187.2	38°25.3'	233.1	32°58.0'	305.0	46°12.4'	332.2	287	16°27.4'	17.0	39°02.1'	108.8	16°50.8'	145.8	32°54.2'	212.1	54°40.2'	258.9	46°14.8'	326.5	25°48.1'	353.4
198	43°11.9'	21.1	15°34.5'	67.7	45°31.5'	103.1	51°05.5'	187.9	37°41.8'	233.1	32°13.3'	304.2	45°46.5'	330.9	288	16°43.0'	16.3	39°53.6'	108.6	17°21.5'	145.6	32°25.2'	212.2	53°46.8'	258.7	45°44.2'	325.3	25°41.5'	352.6
199	43°30.1'	19.9	16°26.7'	67.2	46°24.5'	102.9	50°57.7'	188.6	36°58.2'	233.1	31°28.1'	303.4	45°19.6'	329.7	289	16°57.9'	15.6	40°45.2'	108.4	17°52.2'	145.4	31°56.2'	212.3	52°53.5'	258.5	45°12.8'	324.1	25°34.1'	351.7
200	43°48.9'	18.7	17°14.8'	66.7	47°17.5'	102.7	50°49.2'	189.3	36°14.7'	233.1	30°30.6'	302.7	44°51.6'	328.5	290	17°12.3'	15.0	41°36.8'	108.2	18°23.2'	145.3	31°27.5'	212.3	52°00.2'	258.3	44°40.5'	323.0	25°26.8'	350.9
201	44°05.8'	17.4	18°04.6'	66.1	48°10.6'	102.5	50°40.2'	190.3	35°31.2'	233.1	29°56.6'	302.4	44°22.8'	327.1	291	17°26.0'	14.3	42°28.5'	108.1	18°54.2'	145.1	30°58.1'	212.4	51°07.0'	258.2	44°07.3'	321.8	25°16.8'	350.0
202	44°21.5'	16.1	18°54.2'	65.6	49°03.7'	102.3	50°30.4'	190.6	34°47.8'	233.1	29°10.4'	301.3	43°52.9'	326.2	292	17°39.1'	13.6	43°20.2'	107.9	19°25.4'	144.9	30°28.9'	212.4	50°13.8'	258.0	43°33.3'	320.7	25°07.0'	349.2
203	44°36.0'	14.9	19°43.6'	65.0	49°56.8'	102.1	50°20.2'	191.3	34°04.3'	233.0	28°23.2'	300.7	43°22.2'	325.0	293	17°51.5'	12.8	44°10.0'	107.7	19°56.7'	144.8	29°59.8'	212.4	49°20.6'	257.8	42°58.5'	319.6	24°56.4'	348.3
204	44°49.4'	13.6	20°32.8'	64.5	50°50.0'	101.9	50°09.2'	191.9	33°20.9'	232.9	27°36.8'	300.4	42°50.6'	323.9	294	18°03.2'	12.1	45°03.8'	107.6	20°20.2'	144.6	29°30.7'	212.4	48°27.5'	257.6	42°22.2'	318.6	24°45.0'	347.5
205	45°01.5'	12.3	21°21.8'	63.9	51°43.3'	101.7	49°57.7'	192.6	32°37.5'	232.9	26°49.6'	299.3	42°18.2'	322.8	295	18°14.3'	11.4	45°55.7'	107.4	20°59.7'	144.5	29°01.5'	212.4	47°34.4'	257.4	41°46.5'	317.6	24°32.9'	346.7
206	45°12.5'	11.0	22°10.5'	63.3	52°36.5'	101.5	49°45.6'	193.2	31°54.2'	232.8	26°02.0'	298.7	41°44.9'	321.8	296	18°24.8'	10.7	46°47.5'	107.3	21°31.4'	144.3	28°32.3'	212.4	46°41.4'	257.1	41°09.5'	316.6	24°20.0'	345.9
207	45°22.2'	09.6	22°59.0'	62.7	53°29.8'	101.3	49°32.9'	193.8	31°10.9'	232.7	25°14.2'	298.4	41°10.9'	320.7	297	18°34.6'	10.4	47°39.5'	107.2	22°03.2'	144.2	28°03.2'	212.4	45°48.4'	256.9	40°31.8'	316.6	24°06.3'	345.0
208	45°30.7'	08.3	23°47.2'	62.1	54°23.2'	101.2	49°19.6'	194.4	30°27.7'	232.6	24°26.1'	297.5	40°36.1'	319.7	298	18°43.6'	09.3	48°31.5'	107.1	22°35.0'	144.1	27°34.0'	212.4	44°55.5'	256.7	39°53.4'	314.6	23°51.9'	344.2
209	45°37.9'	07.0	24°35.1'	61.5	55°16.5'	101.0	49°05.8'	195.0	29°44.5'	232.5	23°37.7'	296.9	40°00.6'	318.7	299	18°52.1'	08.5	49°23.5'	106.9	23°07.0'	144.0	27°04.9'	212.4	44°02.6'	256.5	39°14.3'	313.7	23°36.8'	343.4
ARCTURUS			*Rasalhague			ANTARES			*RIGIL KENT			ACRUX			Gienah			*Denebola											
210	45°43.9'	05.6	25°22.8'	60.9	56°09.9'	100.8	53°24.1'	171.7	48°51.5'	195.6	64°55.6'	282.0	39°24.3'	317.7	300	18°59.8'	07.8	46°38.8'	39.5	50°15.5'	106.8	23°39.0'	143.9	26°35.8'	212.3	43°09.7'	256.3	23°20.9'	342.6
211	45°48.6'	04.3	26°10.1'	60.2	57°03.3'	100.7	53°31.7'	172.4	48°36.7'	196.1	64°02.3'	281.1	38°47.4'	316.7	301	19°06.8'	07.1	47°12.9'	38.3	51°07.6'	106.7	24°11.1'	143.8	26°06.7'	212.3	42°16.9'	256.1	23°04.3'	341.8
212	45°52.0'	02.9	26°57.2'	59.6	57°56.8'	100.5	53°38.4'	173.2	48°21.3'	196.7	63°08.9'	280.4	38°09.8'	315.8	302	19°13.2'	06.3	47°46.2'	37.1	51°59.7'	106.6	24°43.3'	143.8	25°37.7'	212.2	41°24.1'	255.8	22°47.0'	341.0
213	45°54.1'	01.6	27°43.9'	58.9	58°50.0'	100.3	53°44.5'	174.0	48°05.4'	197.2	62°15.4'	279.7	37°31.6'	314.9	303	19°18.8'	05.6	48°18.5'	35.8	52°51.8'	106.5	25°15.5'	143.6	25°08.7'	212.2	40°31.4'	255.6	22°29.0'	340.3
214	45°54.9'	00.2	28°30.3'	58.3	59°43.8'	100.2	53°49.7'	174.9	47°49.0'	197.8	61°21.7'	279.0	36°52.7'	314.0	304	19°23.8'	04.9	48°49.8'	34.6	53°43.9'	106.5	25°47.8'	143.5	24°39.8'	212.1	39°38.8'	255.4	22°10.3'	339.5
215	45°54.5'	358.8	29°16.4'	57.6	60°37.3'	100.0	53°54.2'	175.7	47°32.2'	198.3	60°27.9'	278.3	36°13.3'	313.1	305	19°28.0'	04.1	49°20.2'	33.3	54°36.1'	106.4	26°20.2'	143.4	24°10.9'	212.0	38°46.2'	255.1	21°50.9'	338.7
216	45°																												

Table with 10 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *Alpheratz, *RIGEL, *CANOPUS, *ACHERNAR, *Peacock, *Enif.

Table with 10 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *POLLUX, *REGULUS, *ACRUX, *ACHERNAR, *RIGEL, *BETELGEUSE.

Table with 10 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *Hamal, *ALDEBARAN, *RIGEL, *CANOPUS, *ACHERNAR, *FOMALHAUT, *Alpheratz.

Table with 10 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *POLLUX, *REGULUS, *Gienah, *ACRUX, *CANOPUS, *RIGEL, *BETELGEUSE.

Table with 10 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *Hamal, *ALDEBARAN, *SIRIUS, *CANOPUS, *ACHERNAR, *FOMALHAUT, *Alpheratz.

Table with 10 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *REGULUS, *SPICA, *ACRUX, *CANOPUS, *RIGEL, *BETELGEUSE, *POLLUX.

Table with 10 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *ALDEBARAN, *BETELGEUSE, *SIRIUS, *CANOPUS, *ACHERNAR, *FOMALHAUT, *Hamal.

Table with 10 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *REGULUS, *SPICA, *ACRUX, *CANOPUS, *RIGEL, *BETELGEUSE, *POLLUX.

Table with 10 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *ALDEBARAN, *BETELGEUSE, *SIRIUS, *CANOPUS, *ACHERNAR, *FOMALHAUT, *Hamal.

Table with 10 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *REGULUS, *Denebola, *SPICA, *ACRUX, *CANOPUS, *SIRIUS, *PROCYON.

Table with 10 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *BETELGEUSE, *PROCYON, *Shuail, *CANOPUS, *ACHERNAR, *Hamal, *ALDEBARAN.

Table with 10 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *ARCTURUS, *ANTARES, *ACRUX, *CANOPUS, *SIRIUS, *REGULUS.

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn							
180	34	01.8'	39.8	30	04.3'	106.9	45	46.3'	153.2	52	30.6'	174.9	23	59.5'	221.3	50	10.7'	288.7	43	33.3'	321.2
181	34	03.6'	38.9	30	05.6'	106.6	46	10.4'	153.6	52	35.1'	175.6	23	24.0'	221.1	49	19.5'	287.9	42	59.1'	320.1
182	35	09.5'	38.0	31	04.8'	106.3	46	34.3'	154.0	52	38.9'	176.3	22	48.6'	221.0	48	28.1'	287.2	42	24.2'	319.0
183	35	42.3'	37.0	32	03.1'	106.0	46	57.6'	154.5	52	42.0'	177.1	22	13.3'	220.8	47	36.5'	286.5	41	48.4'	318.0
184	36	14.4'	36.0	33	03.9'	105.8	47	20.6'	154.9	52	44.4'	177.8	21	38.1'	220.6	46	44.7'	285.8	41	11.9'	317.0
185	36	45.8'	35.1	34	02.3'	105.5	47	47.3'	155.4	52	46.1'	178.6	21	03.0'	220.5	45	52.7'	284.1	40	34.8'	316.0
186	37	16.4'	34.1	35	15.9'	105.2	48	05.6'	155.8	52	47.7'	179.3	20	28.1'	220.3	45	00.5'	284.4	39	57.0'	315.0
187	37	46.2'	33.1	36	07.0'	105.0	48	27.5'	156.3	52	47.4'	180.1	19	53.3'	220.1	44	08.2'	283.7	39	18.5'	314.0
188	38	15.2'	32.0	37	00.1'	104.7	48	48.9'	156.8	52	47.0'	180.8	19	18.6'	219.9	43	15.8'	283.1	38	39.5'	313.0
189	38	43.4'	31.0	37	52.3'	104.4	49	10.0'	157.3	52	45.9'	181.5	18	44.1'	219.7	42	23.2'	282.5	37	59.8'	312.2
190	39	09.7'	30.0	38	38.4'	104.2	49	30.5'	157.8	52	44.1'	182.3	18	09.9'	219.5	41	30.5'	281.9	37	19.5'	311.3
191	39	37.2'	28.8	39	36.8'	103.9	49	50.6'	158.4	52	41.6'	183.3	17	35.5'	219.3	40	37.6'	281.3	36	38.7'	310.4
192	40	02.7'	27.7	40	29.2'	103.6	50	10.2'	159.0	52	38.4'	183.8	17	01.4'	219.1	39	34.4'	280.7	35	57.4'	309.5
193	40	27.4'	26.6	41	21.7'	103.3	50	29.9'	159.5	52	34.5'	184.5	16	27.5'	218.9	38	56.1'	280.1	35	15.6'	308.6
194	40	51.1'	25.5	42	14.1'	103.1	50	48.0'	160.1	52	30.0'	185.2	15	53.8'	218.6	37	58.5'	279.6	34	33.2'	307.9

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn							
270	24	36.2'	08.1	45	45.7'	41.6	24	59.7'	112.2	49	36.8'	149.5	41	42.6'	209.8	69	58.8'	263.7	26	53.6'	323.8
271	24	43.3'	07.2	46	21.1'	40.4	25	49.6'	111.9	50	04.0'	149.9	41	15.7'	210.1	69	05.3'	263.5	26	21.4'	323.0
272	24	49.7'	06.4	46	55.7'	39.3	26	39.7'	111.6	50	30.8'	150.4	40	48.6'	210.3	68	11.7'	263.3	25	48.6'	322.2
273	24	55.3'	05.4	47	29.9'	38.1	27	29.9'	111.3	50	57.2'	150.4	40	21.3'	210.5	67	18.1'	263.1	25	15.3'	321.4
274	25	00.0'	04.6	48	04.2'	36.8	28	20.2'	111.1	51	23.2'	151.5	39	53.9'	210.7	66	24.6'	263.0	24	41.4'	320.7
275	25	04.0'	03.8	48	30.0'	35.6	29	10.6'	110.8	51	48.7'	152.1	39	26.9'	210.9	65	31.1'	262.8	24	06.9'	319.9
276	25	07.2'	02.9	49	04.9'	34.3	30	01.0'	110.6	52	13.7'	152.7	38	58.4'	211.1	64	37.6'	262.6	23	31.9'	319.2
277	25	09.9'	02.1	49	34.8'	33.0	30	51.5'	110.3	52	38.2'	153.3	38	30.5'	211.3	63	44.1'	262.4	22	56.4'	318.4
278	25	11.8'	01.0	50	03.0'	31.7	31	31.42'	110.1	53	02.2'	153.9	38	02.5'	211.5	62	50.7'	262.2	22	02.4'	317.7
279	25	11.8'	00.3	50	31.3'	30.3	32	32.8'	109.8	53	25.7'	154.5	37	34.2'	211.6	61	57.3'	262.0	21	43.9'	317.0
280	25	11.7'	359.5	50	58.0'	28.9	33	23.6'	109.6	53	48.6'	155.2	37	05.9'	211.8	61	03.9'	261.8	21	06.9'	316.3
281	25	10.8'	358.6	51	23.4'	27.5	34	14.5'	109.3	54	13.8'	156.9	36	37.4'	211.9	60	10.5'	261.6	20	29.4'	315.6
282	25	09.3'	357.8	51	47.7'	26.0	35	05.4'	108.9	54	32.7'	157.6	36	36.0'	212.0	59	17.2'	261.4	19	51.5'	315.0
283	25	06.6'	356.9	52	10.7'	24.5	35	56.4'	108.9	54	53.5'	158.3	35	48.9'	212.1	58	23.9'	261.2	19	13.1'	314.3
284	25	03.3'	356.0	52	32.5'	23.0	36	47.4'	108.6	55	14.3'	158.1	35	11.5'	212.2	57	30.6'	260.9	18	34.3'	313.7

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn							
195	41	13.8'	24.3	12	41.4'	69.0	43	06.7'	102.9	51	06.0'	160.7	52	24.7'	186.0	40	28.0'	233.8	33	50.4'	307.3
196	41	35.3'	23.1	13	31.6'	68.5	43	59.3'	102.5	51	23.6'	161.3	52	18.8'	186.7	39	44.4'	233.8	33	07.1'	306.0
197	41	56.2'	22.0	14	21.7'	68.0	44	51.9'	102.4	51	40.5'	162.0	52	12.2'	187.4	39	01.0'	233.8	32	23.4'	305.5
198	42	15.9'	20.8	15	11.6'	67.5	45	44.4'	102.1	51	56.9'	162.6	52	04.0'	188.1	38	17.5'	233.8	31	39.3'	304.7
199	42	34.5'	19.6	16	01.1'	66.9	46	37.4'	101.8	52	12.7'	163.3	51	57.0'	188.8	37	34.0'	233.8	30	38.7'	304.0
200	42	52.0'	18.4	16	50.9'	66.4	47	30.2'	101.6	52	27.3'	164.0	51	48.4'	189.5	36	50.5'	233.7	29	09.6'	303.2
201	43	08.5'	17.1	17	40.2'	65.9	48	23.0'	101.4	52	42.5'	164.7	51	39.4'	190.2	36	00.0'	233.7	29	02.4'	302.5
202	43	23.8'	15.9	18	29.3'	65.3	49	15.9'	101.2	52	56.5'	165.4	51	29.4'	190.8	35	23.6'	233.6	28	38.9'	301.8
203	43	38.0'	14.6	19	18.2'	64.7	50	08.8'	100.9	53	09.8'	166.1	51	18.9'	191.5	34	40.0'	233.6	27	52.9'	301.1
204	43	51.0'	13.3	20	07.6'	64.1	51	01.8'	100.7	53	22.4'	166.8	51	07.9'	192.2	33	56.9'	233.6	27	06.6'	300.4
205	44	02.9'	12.1	20	55.2'	63.6	51	54.8'	100.5	53	34.3'	167.6	50	56.2'	192.8	33	13.5'	233.4	26	20.0'	299.8
206	44	13.6'	10.8	21	43.4'	63.0	52	47.4'	100.2	53	45.6'	168.3	50	43.9'	193.5	32	30.3'	233.3	25	33.3'	299.1
207	44	23.0'	09.5	22	31.3'	62.5	53	40.9'	100.0	53	56.2'	169.0	50	31.1'	194.1	31	47.1'	233.2	24	45.8'	298.5
208	44	31.3'	08.2	23	18.8'	61.7	54	34.1'	99.8	54	06.0'	169.9	50	17.7'	194.7	31	03.9'	233.2	23	58.2'	297.9
209	44	38.3'	06.8	24	06.3'	61.1	55	27.2'	99.6	54	15.1'	170.7	50	03.8'	195.3	30	20.8'	233.0	23	01.4'	297.2

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn							
210	44	44.2'	05.5	24	53.4'	60.5	24	29.2'	108.6	54	23.5'	171.5	49	49.3'	195.9	29	37.8'	232.9	38	39.7'	318.2
211	44	48.7'	04.2	25	40.2'	59.8	25	20.3'	108.3	54	31.1'	172.3	49	34.2'	196.5	28	54.9'	232.9	38	03.5'	317.3
212	44	52.0'	02.9	26	26.6'	59.2	26	11.6'	108.0	54	38.0'	173.1	49	18.7'	197.0	28	28.2'	232.9	37	26.6'	316.3
213	44	54.1'	01.5	27	12.8'	58.5	27	02.9'	107.7	54	44.1'	173.9	49	02.7'	197.6	27	29.2'	232.9	36	49.0'	315.4
214	44	54.9'	00.2	27	58.6'	57.8	27	54.3'	107.4	54	49.5'	174.7	48	46.1'	198.1	26	46.5'	232.9	36	10.0'	314.5
215	44	58.5'	358.9	28	44.0'	57.1	28	45.8'	107.1	54	54.0'	175.6	48	29.4'	198.7	26	03.9'	232.9	35	32.1'	313.6
216	44	52.8'	357.5	29	29.2'	56.7	29	37.4'	106.8	54	57.8'	176.4	48	11.6'	199.2	25	25.1'	231.9	34	56.2'	312.7
217	44	49.8'	356.2	30	13.9'	56.3	30	29.1'	106.5	55	00.8'	177.2	47	53.7'	199.7	24	39.0'	231.9	33	51.9'	311.9
218	44	45.6'	354.9	30	58.2'	54.9	31	20.8'	106.2	55	03.0'	178.1	47	35.3'	200.2	23	56.7'	231.6	33	32.5'	311.0
219	44	43.0'	353.5	31	42.1'	54.3	32	12.6'	105.9	55	04.4'	178.9	47	16.5'	200.7	23	14.1'	231.4	32	51.6'	310.2
220	44	40.5'	352.2	32	26.5'	53.4	33	03.4'	105.6	55	05.9'	179.8	46	57.2'	201.1	22	32.4'	231.4	31	32.0'	309.4
221	44	25.6'	349.3	33	08.7'	52.6	33	56.5'	105.4	55	04.8'	180.6	46	37.6'	201.6	21	50.5'	231.0	31	28.2'	308.6
222	44	16.5'	346.9	33	51.3'	51.8	34	34.8'	105.1	55	03.8'	181.5	46	17.6'	202.0	21	08.7'	230.7	30	45.9'	307.9
223	44	06.1'	348.3	34	33.5'	51.0	35	40.6'	104.6	55	02.0'	182.6	45	57.2'	202.4	20	27.0'	230.6	30	03.0'	307.1
224	43	54.6'	347.0	35	15.1'	50.2	36	32.8'	104.6	54	59.4'	183.2									

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn								
*ARCTURUS	39.430	22.1	106.346	39.7	152.8	53.30	4.174	8.24	44.5	221.6	49.50	9.289	42.46	6.3	321.8					
ANTARES	31.13	4.106	47.04	0.153	53.34	9.175	5.24	09.1	221.4	49.00	5.289	4.2	12.8	320.7						
*RIGIL KENT	47.28	0.153	63.38	8.176	3.23	33.8	221.2	48.09	8.288	34.1	38.6	319.6								
ACRUX	47.28	0.153	63.38	8.176	3.23	33.8	221.2	48.09	8.288	34.1	38.6	319.6								
CANOPUS	47.28	0.153	63.38	8.176	3.23	33.8	221.2	48.09	8.288	34.1	38.6	319.6								
*Alphard	47.28	0.153	63.38	8.176	3.23	33.8	221.2	48.09	8.288	34.1	38.6	319.6								
REGULUS	47.28	0.153	63.38	8.176	3.23	33.8	221.2	48.09	8.288	34.1	38.6	319.6								
180	33.15	6.39	43.02	1.106	34.63	9.7	152.8	53.30	4.174	8.24	44.5	221.6	49.50	9.289	42.46	6.3	321.8			
181	33.49	2.38	51.13	4.106	47.04	0.153	53.34	9.175	5.24	09.1	221.4	49.00	5.289	4.2	12.8	320.7				
182	34.22	1.37	37.52	0.4	105.7	47.28	0.153	63.38	8.176	3.23	33.8	221.2	48.09	8.288	34.1	38.6	319.6			
183	34.54	3.36	32.3	5.6	105.4	47.51	6.154	40.7	52.58	6.221	14.7	19.0	287.5	41.0	3.6	318.6				
184	35.26	8.35	36.33	4.7	105.1	48.14	9.154	43.44	1.778	22.23	5.3	220.9	46.27	9.286	40.27	9.3	317.6			
185	35.56	6.34	34.39	6.104	48.48	3.7	154.9	53.46	1.178	22.23	5.3	220.9	46.27	9.286	40.27	9.3	317.6			
186	36.26	6.33	35.31	3.104	5.49	00.2	155.4	53.47	1.179	3.21	13.8	220.5	44.45	1.285	4.39	11.4	315.6			
187	36.55	8.32	36.36	2.3	104.2	49.22	3.155	83.47	1.80	20.39	1.1	220.3	43.53	2.84	3.8	36.6	314.6			
188	37.24	2.31	32.17	14.9	104.0	49.44	0.156	35.34	47.8	20.0	4.6	120.1	43.01	7.284	0.3	75.8	2.317.7			
189	37.51	9.3	30.38	0.6	103.7	50.05	2.156	9.53	45.9	181.6	19.30	2.219	9.42	0.9	7.283	4.37	19.3	312.7		
190	38.18	6.3	29.38	5.8	103.4	50.26	0.157	43.54	44.1	182.3	18.55	9.219	7.41	17.7	282.7	3.6	39.7	311.8		
191	38.44	5.28	39.50	8.103	1.60	46.9	3.157	83.41	5.181	21.8	18.2	19.5	40.25	2.282	1.35	59.6	3.104.5			
192	39.09	5.7	2.44	40.2	102.8	51.06	2.158	5.38	3.183	6.9	17.4	20.9	3.39	33.1	281.9	3.3	30.0	310.1		
193	39.33	6.7	26.41	1.35	102.5	51.25	5.159	5.33	34.4	184.9	17.14	2.219	0.38	40.7	280.9	3.4	37.8	309.2		
194	39.56	8.7	25.1	42.2	102.2	51.44	3.159	7.53	29.7	185.3	16.40	6.218	8.37	48.1	280.3	3.3	56.2	308.4		
ARCTURUS	24.0	12.19	8.8	68.8	43.19	6.102	52.02	6.160	3.53	24.4	1.86	1.41	0.3	234.5	3.3	14.0	307.6			
*Rasalhague	22.8	13.09	6.8	68.4	44.11	9.160	52.02	6.160	3.53	24.4	1.86	1.41	0.3	234.5	3.3	14.0	307.6			
ANTARES	21.7	13.59	1.67	68.4	45.04	3.101	45.2	37.5	1.61	6.3	11.7	1.87	6.39	3.6	1.234	5.3	14.8	306.0		
*RIGIL KENT	20.5	14.48	5.7	62.4	45.6	7.101	52.54	1.162	2.53	0.4	3.1	1.88	3.38	5.2	7.234	4.3	0.4	305.2		
ACRUX	19.3	15.37	6.7	66.7	46.29	9.107	55.3	10.2	1.62	9.2	5.56	3.189	0.38	0.9	2.234	0.3	21.0	304.5		
*Suhail	18.1	16.26	7.6	66.7	47.1	7.100	63.5	20.3	1.63	6.2	4.7	1.89	7.37	25.7	2.34	3.2	33.6	303.7		
*REGULUS	16.9	17.15	5.6	65.6	48.34	3.100	53.40	3.163	4.36	5.2	3.8	1.90	4.36	4.2	2.234	2.8	5.1	303.0		
195	40.19	0.2	24.0	12.19	8.8	68.8	43.19	6.102	52.02	6.160	3.53	24.4	1.86	1.41	0.3	234.5	3.3	14.0	307.6	
196	40.4	3.2	22.8	13.09	6.8	68.4	44.11	9.160	52.02	6.160	3.53	24.4	1.86	1.41	0.3	234.5	3.3	14.0	307.6	
197	41.00	5.1	21.7	13.59	1.67	68.4	45.04	3.101	45.2	37.5	1.61	6.3	11.7	1.87	6.39	3.6	1.234	5.3	14.8	306.0
198	41.19	7.7	20.5	14.48	5.7	62.4	45.6	7.101	52.54	1.162	2.53	0.4	3.1	1.88	3.38	5.2	7.234	4.3	0.4	305.2
199	41.37	9.9	19.3	15.37	6.7	66.7	46.29	9.107	55.3	10.2	1.62	9.2	5.56	3.189	0.38	0.9	2.234	0.3	21.0	304.5
200	41.55	1.1	18.1	16.26	7.6	66.7	47.1	7.100	63.5	20.3	1.63	6.2	4.7	1.89	7.37	25.7	2.34	3.2	33.6	303.7
201	42.11	1.1	16.9	17.15	5.6	65.6	48.34	3.100	53.40	3.163	4.36	5.2	3.8	1.90	4.36	4.2	2.234	2.8	5.1	303.0
202	42.26	1.1	15.6	18.04	1.1	65.0	49.26	9.100	53.54	5.165	0.52	28.3	1.191	1.35	5.9	0.2	234.2	2.8	7.0	302.3
203	42.39	9.9	14.4	18.52	4.4	64.50	49.26	9.100	53.54	5.165	0.52	28.3	1.191	1.35	5.9	0.2	234.2	2.8	7.0	302.3
204	42.52	6.1	13.1	19.40	5.4	63.81	49.26	9.100	53.54	5.165	0.52	28.3	1.191	1.35	5.9	0.2	234.2	2.8	7.0	302.3
205	43.04	2.1	11.9	20.28	4.4	63.2	52.05	1.99	2.54	3.2	9.167	3.3	1.93	1.33	4.9	1.233	9.2	5.0	300.2	
206	43.14	6.0	10.3	21.16	0.4	62.6	52.57	5.7	98.9	54.44	3.168	0.51	42.3	1.93	7.33	0.5	233.8	2.5	0.3	299.5
207	43.23	8.9	9.2	22.03	3.3	62.0	53.00	7.7	98.9	54.44	3.168	0.51	42.3	1.93	7.33	0.5	233.8	2.5	0.3	299.5
208	43.31	9.8	8.0	22.50	4.4	61.4	54.43	6.7	98.4	55.05	0.169	6.15	1.5	1.95	0.31	3.9	7.233	6.2	3.0	298.2
209	43.38	8.7	6.7	23.37	1.1	60.7	55.36	3.7	98.1	55.14	3.170	4.9	1.5	1.95	0.31	3.9	7.233	6.2	3.0	298.2
ARCTURUS	24.0	12.19	8.8	68.8	43.19	6.102	52.02	6.160	3.53	24.4	1.86	1.41	0.3	234.5	3.3	14.0	307.6			
*Rasalhague	22.8	13.09	6.8	68.4	44.11	9.160	52.02	6.160	3.53	24.4	1.86	1.41	0.3	234.5	3.3	14.0	307.6			
*Nunki	12.4	48.1	108.2	55	22.8	171.2	50	46.9	196.2	30	13.8	233.3	37	54.8	318.8					
*RIGIL KENT	20.5	14.48	5.7	62.4	45.6	7.101	52.54	1.162	2.53	0.4	3.1	1.88	3.38	5.2	7.234	4.3	0.4	305.2		
ACRUX	19.3	15.37	6.7	66.7	46.29	9.107	55.3	10.2	1.62	9.2	5.56	3.189	0.38	0.9	2.234	0.3	21.0	304.5		
*Suhail	18.1	16.26	7.6	66.7	47.1	7.100	63.5	20.3	1.63	6.2	4.7	1.89	7.37	25.7	2.34	3.2	33.6	303.7		
Denebola	16.9	17.15	5.6	65.6	48.34	3.100	53.40	3.163	4.36	5.2	3.8	1.90	4.36	4.2	2.234	2.8	5.1	303.0		
210	43.44	4.0	5.4	24.23	6.0	1.24	48.1	108.2	55	22.8	171.2	50	46.9	196.2	30	13.8	233.3	37	54.8	318.8
211	43.48	9.1	4.0	25.09	8.9	59.4	25.38	9.107	55.3	10.2	1.62	9.2	5.56	3.189	0.38	0.9	2.234	0.3	21.0	304.5
212	43.52	1.0	2.8	25.55	7.7	58.7	26.29	9.107	55.3	10.2	1.62	9.2	5.56	3.189	0.38	0.9	2.234	0.3	21.0	304.5
213	43.54	1.0	1.5	26.41	2.1	58.1	27.20	9.107	55.3	10.2	1.62	9.2	5.56	3.189	0.38	0.9	2.234	0.3	21.0	304.5
214	43.54	9.0	0.2	27.26	4.7	57.4	28.12	0.106	9.55	49.3	1.174	6.4	49.4	3.1	1.98	5.2	7.23	3.5	315.0	
215	43.54	5.358	9.8	28.11	2.1	56.7	29.02	0.106	9.55	49.3	1.174	6.4	49.4	3.1	1.98	5.2	7.23	3.5	315.0	
216	43.52	8.357	6.28	28.57	5.5	55.9	29.54	5.106	9.55	49.3	1.174	6.4	49.4	3.1	1.98	5.2	7.23	3.5	315.0	
217	43.50	0.356	3.29	3.8	5.2	30.4	30.45	9.106	9.56	0.0	1.77	2.48	8.0	1.1	200.1	1.25	1.6	0.1	312.2	
218	43.45	9.355	0.30	23.5	5.4	3.1	37.3	105.6	56	02.9	178.0	48	31.5	200.6	24	33.8	231.9	32	5.2	311.5
219	43.40	6.353	7.31	06.8	6.3	32.2	38.2	8.105	36	04.4	178.9	48	12.5	201.0	23	35.1	231.3	12.6	310.7	
220	43.43	0.352	4.31	09.6	5.2	33.3	39.20	4.105	36.05	1.07	48.7	43.1	201.5	23	35.1	231.3	12.6	310.7		
221	43.26	3.351	1.32	33.2	1.1	52.1	34.12	1.104	7.6	56.0	4.8	180.7	47	33.3	202.0	22	2.8	31.0	309.9	
222	43.17	4.349	8.33	14.0	5.1	33.5	03.8	104.4	56	03.8	181.4	47	13.1	202.4	21	46.5	231.0	08.9	308.6	
223	43.07	4.348	5.33	15.5	6.0	53.35	55.6	104.4	56	01.9	182.4	46	52.6	202.8	21	46.5	231.0	08.9	308.6	
224	42.56	1.347	2.34	36.5	4.9	6.36	47.5	103.8	55	59.3	183.3	46	31.6	203.3	20	23.6	230.6	28	44.1	306.8
Alphecca	23.5	35.40	0.9	83.5	16.9	48.8	37	39.4	103.5	26	41.2	142.5	55	55.6	3.101	42	43.8	3.8	346.0	
*Rasalhague	22.8	13.09	6.8	68.4	44.11	9.160	52.02	6.160	3.53											

LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	LHA	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn	Hc	Zn				
	*Alpheratz Hamal CANOPUS ACHERNAR *Peacock Enif													POLLUX *REGULUS ACRUZ ACHERNAR *RIGEL BETELGEUSE															
0	31°45.3'	02.4	29°03.1'	33.8	13°39.1'	91.9	19°13.9'	140.4	57°00.2'	155.5	43°52.0'	217.6	39°14.9'	315.1	90	27°34.9'	26.5	17°18.0'	65.2	22°39.4'	151.0	65°52.1'	170.9	37°13.3'	218.3	66°41.9'	331.1	53°34.8'	358.4
	*Hamal ALDEBARAN RIGEL *CANOPUS ACHERNAR *FOMALHAUT Alpheratz													POLLUX *REGULUS Gienah *ACRUZ CANOPUS *RIGEL BETELGEUSE															
15	34°56.1'	19.2	30°34.9'	56.2	26°45.3'	84.4	27°53.0'	137.4	61°03.9'	169.2	63°37.5'	261.4	30°33.5'	347.2	106	31°06.7'	11.2	12°28.41.5'	55.2	17°38.4'	100.8	29°13.0'	149.2	65°23.9'	193.0	57°48.4'	305.1	50°29.1'	334.7
	*ALDEBARAN BETELGEUSE *SIRIUS *CANOPUS ACHERNAR *FOMALHAUT Hamal													REGULUS *SPICA ACRUZ *CANOPUS RIGEL BETELGEUSE *POLLUX															
30	37°24.3'	02.4	30°43.8'	44.9	23°54.5'	96.6	36°53.9'	136.2	61°36.7'	186.2	50°43.3'	257.8	26°05.4'	333.2	120	38°33.4'	42.1	12°44.5'	95.9	35°57.7'	149.2	60°28.7'	209.9	46°08.8'	290.0	42°57.3'	315.9	32°56.0'	356.5
	*ALDEBARAN BETELGEUSE *SIRIUS *CANOPUS ACHERNAR *FOMALHAUT Hamal													REGULUS *SPICA ACRUZ *CANOPUS RIGEL BETELGEUSE *POLLUX															
45	38°46.3'	03.4	30°40.6'	33.1	26°46.0'	89.7	45°56.7'	137.3	58°26.5'	201.2	38°00.6'	253.6	35°59.5'	345.3	135	45°49.5'	24.8	25°50.5'	88.8	42°31.2'	151.2	52°56.9'	219.2	33°28.3'	279.9	32°43.7'	302.1	30°22.5'	341.2
	ALDEBARAN BETELGEUSE *SIRIUS *CANOPUS *ACHERNAR FOMALHAUT *Hamal													REGULUS *Denebola SPICA ACRUZ *CANOPUS *SIRIUS PROCYON															
60	43°34.5'	12.4	44°04.4'	42.1	50°04.3'	81.4	54°28.5'	142.1	52°34.5'	211.1	25°35.0'	249.0	30°58.4'	330.0	150	49°04.1'	03.5	39°03.1'	35.2	38°53.9'	80.8	48°24.5'	155.9	44°15.6'	223.1	44°00.3'	274.4	42°06.7'	309.8
	BETELGEUSE PROCYON *Shuhal CANOPUS *ACHERNAR Hamal *ALDEBARAN													ARCTURUS *ANTARES ACRUZ *CANOPUS SIRIUS *PROCYON *REGULUS															
75	51°09.1'	22.6	38°30.7'	55.0	39°02.1'	124.3	61°39.2'	152.7	45°13.3'	216.4	23°09.7'	317.2	44°07.0'	352.3	165	22°28.0'	50.7	18°25.8'	110.6	52°59.0'	163.8	35°12.1'	223.8	30°53.8'	267.0	31°08.7'	297.1	147°20.8'	341.6

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Contains star data for constellations like ARCTURUS, ANTARES, *RIGIL KENT, ACRUXX, CANOPUS, *Alphard, REGULUS, etc.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Contains star data for constellations like VEGETA, *ALTAIR, FOMALHAUT, *Peacock, RIGIL KENT, *ANTARES, Alphaeca, etc.

Table of star positions in the constellation Lat 31 S. Columns include LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, and star names like ARCTURUS, ANTAIRES, RIGIL KENT, etc.

Table of star positions in the constellation Lat 31 S. Columns include LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, and star names like VEGA, ALTAIR, FOMALHAUT, etc.

Table of star coordinates and names (e.g., Hamal, ALDEBARAN, RIGEL, CANOPUS, ACERNAR, Peacock, Enif) for stars in the Lat 32 S region.

Table of star coordinates and names (e.g., REGULUS, *Suhail, *ACRUX, *ACERNAR, RIGEL, *BETELGEUSE, PROCYON, REGULUS, *Gienah, ACRUX, *ACERNAR, RIGEL, *BETELGEUSE) for stars in the Lat 32 S region.

Table with columns for star names (e.g., Alpheratz, Hamal, CANOPUS, ACHERNAR, *Peacock, Enif) and their corresponding Right Ascension and Declination coordinates in degrees, minutes, and seconds.

Table with astronomical data including Right Ascension, Declination, and star names across multiple columns.

Table with 10 columns (LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn) and multiple rows of star data. Each row contains star names (e.g., ARCTURUS, ANTARES, RIGIL KENT) and their corresponding coordinates and magnitudes.

Table of star coordinates (Right Ascension, Declination) and names for stars in the southern sky (Lat 38 S). The table is organized into columns for different star groups and includes star names like Alpheratz, Hamal, and others.

Table of star coordinates (RA, Dec) and names for stars in the southern sky. Columns include star names like Alpheratz, Hamal, and various constellation names such as Canopus, Peacock, and Fomalhaut.

Table with columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Stars listed include ARCTURUS, ANTARES, RIGIL KENT, ACRUZ, CANOPUS, Alphan, and REGULUS.

Table with columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Stars listed include ALTAIR, Enif, FOMALHAUT, ACHERNAR, RIGIL KENT, ANTARES, and Rasalhague.

Table with columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Stars listed include ARCTURUS, ANTARES, RIGIL KENT, ACRUZ, Suhail, REGULUS, and Denebola.

Table with columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Stars listed include ALTAIR, Enif, FOMALHAUT, ACHERNAR, RIGIL KENT, ANTARES, and Rasalhague.

Table with columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Stars listed include ARCTURUS, ANTARES, Peacock, RIGIL KENT, ACRUZ, Suhail, and SPICA.

Table with columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Stars listed include Enif, FOMALHAUT, ACHERNAR, RIGIL KENT, ANTARES, Nunki, and ALTAIR.

Table with columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Stars listed include Alphecca, Rasalhague, Nunki, Peacock, RIGIL KENT, SPICA, ARCTURUS, and Enif.

Table with columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Stars listed include Enif, Diphda, ACHERNAR, RIGIL KENT, ANTARES, Nunki, and ALTAIR.

Table with columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Stars listed include Rasalhague, ALTAIR, FOMALHAUT, ACHERNAR, RIGIL KENT, SPICA, ARCTURUS, and Alpheratz.

Table with columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Stars listed include Alpheratz, Diphda, ACHERNAR, RIGIL KENT, Nunki, and ALTAIR.

Table with columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Stars listed include Rasalhague, ALTAIR, FOMALHAUT, ACHERNAR, RIGIL KENT, SPICA, ARCTURUS, and Alpheratz.

Table with columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Stars listed include Alpheratz, Diphda, CANOPUS, RIGIL KENT, Nunki, and ALTAIR.

Table with columns for star names and coordinates (LHA, Hc, Zn). Includes star names like Alpheratz, Hamal, Rigel, etc., and their corresponding celestial coordinates.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like ARCTURUS, ANTAIRES, RIGIL KENT, etc.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like ALTAIR, ENIF, FOMALHAUT, etc.

Table of astronomical coordinates (Right Ascension, Declination) for various stars in the constellation Lat 41 S. The table is organized into columns for different star groups and includes individual star names like ARCTURUS, ANTAIRES, and REGULUS.

Table with 10 columns (LHA, Hc, Zn) and 10 rows of star data. Each row contains 10 star entries with their respective names and coordinates. The table is organized into 10 blocks, each starting with a row of star names and followed by 10 rows of numerical data.

Table with 12 columns: LHA, Hc, Zn, and star names (e.g., ARCTURUS, ANTARES, *RIGIL KENT, ACHERNAR, CANOPUS, *Suhail, REGULUS, *FOMALHAUT, ACHERNAR, *RIGIL KENT, ANTARES, *Rasalhague). It contains astronomical data for stars in the southern sky.

Table with 28 columns representing celestial coordinates (RA, Dec, etc.) and star names (Alpheratz, Hamal, etc.). The table is organized into multiple blocks, each containing a list of stars with their respective coordinates and names.

Table with 24 columns (LHA, Hc, Zn, etc.) and multiple rows of astronomical data. The table is organized into sections by star names like Alpheratz, Hamal, CANOPUS, etc. Each row contains numerical coordinates and identifiers for various stars and constellations.

Table with 26 columns (LHA, Hc, Zn) and 26 rows. Headers include star names like Alpheratz, Hamal, CANOPUS, *RIGIL KENT, Peacock, *Enif. Data contains coordinates and other identifiers.

Table with 26 columns (LHA, Hc, Zn) and 26 rows. Headers include star names like PROCYON, Alphard, *Suhail, RIGIL KENT, *ACHERNAR, *BETELGEUSE. Data contains coordinates and other identifiers.

Table with 10 columns (LHA, Hc, Zn) and 10 rows of astronomical data. Each row contains coordinates and names of stars or constellations such as ARCTURUS, ANTAIRES, *RIGIL KENT, ACHERNAR, CANOPUS, *Suhail, REGULUS, ALTAIR, Enif, *FOMALHAUT, ACHERNAR, *RIGIL KENT, ANTAIRES, *Rasalhague.

Table with astronomical data including star names (e.g., Alphertz, Hamal, Sirius, Canopus, Rigel, Peacock, Fomalhaut, Procyon, Regulus, Spica, Achernar, Antares, Rigel Kent, Diphda, Hamal, Aldebaran, Betelgeuse), right ascensions, declinations, and magnitudes for stars in the southern sky.

Table with columns for LHA, Hc, Zn, and star names (ARCTURUS, ANTAIRES, Peacock, *ACHERNAR, CANOPUS, *Subhai, REGULUS, *ALTAIR, FOMALHAUT, *ACHERNAR, *SPICA, ANTAIRES, Rasalhague, etc.). Each row contains a list of coordinates and star names.

Table with columns: LHA, Hc, Zn, and star names. It contains a grid of star data for a specific latitude range, including identifiers like ARCTURUS, ANTAIRES, and various numerical coordinates.

Table with 15 columns (LHA, Hc, Zn, *RIGEL, CANOPUS, *RIGIL KENT, Peacock, *FOMALHAUT, LHA, PROCYON, Hc, Zn, *Suhail, *RIGIL KENT, *ACHERNAR, *RIGEL, Hc, Zn, Hc, Zn) and rows of star coordinates and names.

Table with columns: LHA, Hc, Zn, and star names (ARCTURUS, ANTAIRES, Peacock, *ACHERNAR, CANOPUS, *Suhail, REGULUS, *ALTAIR, Enif, *FOMALHAUT, *ACHERNAR, *RIGIL KENT, *SPICA, ANTAIRES, Rasalhague). It contains multiple rows of astronomical data for various stars, including their coordinates and magnitudes.

Table with columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *SPICA, ANTARES, *Peacock, ACHERNAR, CANOPUS, *Subail, REGULUS, *ARCTURUS, etc.

Table with columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *ALTAIR, FOMALHAUT, *ACHERNAR, CANOPUS, *RIGIL KENT, ANTARES, *SPICA, etc.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *SPICA, *ANTARES, *Peacock, *ACHERNAR, *CANOPUS, *Subail, *REGULUS, *ARCTURUS, *Denebola, *ALTAIR, *FOMALHAUT, *ACHERNAR, *CANOPUS, *RIGIL KENT, *ANTARES, *Nunki, *ALTAIR.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *ALTAIR, *FOMALHAUT, *ACHERNAR, *CANOPUS, *RIGIL KENT, *ANTARES, *Nunki, *ALTAIR, *Diphda, *Acamar, *CANOPUS, *Miacplacidus, *RIGIL KENT, *Nunki, *FOMALHAUT.

Table with 30 columns and multiple rows. Columns include LHA, Hc, Zn, and star names like Diphda, *RIGEL, CANOPUS, etc. The table lists astronomical data for stars in the southern sky.

Table with 10 columns (LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn) and multiple rows of astronomical data. The table is organized into sections by star names (e.g., *SPICA, *ARCTURUS, *ALTAIR) and includes various numerical values representing celestial coordinates and other parameters.

Table with 13 columns: LHA, Hc, Zn, ANTAES, Peacock, ACHERNAR, CANOPIUS, *Subail, REGULUS, Hc, Zn. Contains star data for the first 19 rows.

Table with 13 columns: LHA, Hc, Zn, FOMALHAUT, *ACHERNAR, CANOPIUS, *SPICA, ANTAES, Hc, Zn. Contains star data for the first 19 rows.

Table with 13 columns: LHA, Hc, Zn, *ARCTURUS, ANTAES, Peacock, ACHERNAR, CANOPIUS, *Subail, Denebola, Hc, Zn. Contains star data for rows 20-39.

Table with 13 columns: LHA, Hc, Zn, *ALTAIR, FOMALHAUT, *ACHERNAR, CANOPIUS, *RIGIL KENT, ANTAES, Rasalhague, Hc, Zn. Contains star data for rows 20-39.

Table with 13 columns: LHA, Hc, Zn, *ARCTURUS, ANTAES, Peacock, ACHERNAR, CANOPIUS, *Subail, SPICA, FOMALHAUT, *ACHERNAR, CANOPIUS, *RIGIL KENT, ANTAES, Nunki, *ALTAIR, Hc, Zn. Contains star data for rows 40-59.

Table with 13 columns: LHA, Hc, Zn, FOMALHAUT, *ACHERNAR, CANOPIUS, *RIGIL KENT, ANTAES, Nunki, *ALTAIR, Hc, Zn. Contains star data for rows 40-59.

Table with 13 columns: LHA, Hc, Zn, ANTAES, Nunki, Peacock, ACHERNAR, CANOPIUS, *Subail, *SPICA, Hc, Zn. Contains star data for rows 60-79.

Table with 13 columns: LHA, Hc, Zn, *FOMALHAUT, ACHERNAR, *CANOPIUS, *RIGIL KENT, *ANTARES, Nunki, ALTAR, Hc, Zn. Contains star data for rows 60-79.

Table with 13 columns: LHA, Hc, Zn, *ANTARES, Nunki, *FOMALHAUT, ACHERNAR, CANOPIUS, *ACRUX, SPICA, *ANTARES, Hc, Zn. Contains star data for rows 80-99.

Table with 13 columns: LHA, Hc, Zn, *FOMALHAUT, ACHERNAR, *CANOPIUS, RIGIL KENT, *ANTARES, Nunki, ALTAR, Hc, Zn. Contains star data for rows 80-99.

Table with 13 columns: LHA, Hc, Zn, ALTAR, *FOMALHAUT, ACHERNAR, CANOPIUS, *ACRUX, SPICA, *ANTARES, Hc, Zn. Contains star data for rows 100-119.

Table with 13 columns: LHA, Hc, Zn, *Dipha, Acanar, *CANOPIUS, Miaplacidus, RIGIL KENT, *Nunki, FOMALHAUT, Hc, Zn. Contains star data for rows 100-119.

Table with 15 columns and 15 rows. Columns represent celestial coordinates (LHA, Hc, Zn) and star names (Dipha, SIGIL, CANOPUS, MIAPLACIUS, *RIGIL KENT, Peacock, *FOMALHAUT, Diphda, PROCYON, REGULUS, *Gienah, RIGIL KENT, *ACHERNAR, RIGEL, *SIRIUS). Rows contain numerical values for each parameter.

Table of star coordinates for the southern sky region Lat 55 S, columns include LHA, Hc, Zn, and star names like *SPICA, *ANTARES, *Peacock, *ACHERNAR, *CANOPUS, *Subail, *REGULUS.

Table of star coordinates for the southern sky region Lat 55 S, columns include LHA, Hc, Zn, and star names like *ALTAIR, *FOMALHAUT, *ACHERNAR, *CANOPUS, *RIGIL KENT, *ANTARES, *SPICA, *Nunki, *ALTAIR.

Table with columns for LHA, Hc, Zn, and star names (Diphda, SIRIUS, CANOPUS, *RIGIL KENT, Peacock, *FOMALHAUT, *Alphard, *Suhail, *RIGIL KENT, *Peacock, *ACHERNAR, *RIGEL, *SIRIUS). It lists astronomical coordinates and star identifiers for various stars in the sky.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *SPICA, *ACHERNAR, *CANOPUS, *SIRIUS, and *Alphard.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *ACHERNAR, *CANOPUS, *SIRIUS, and *Alphard.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *ANTARES, *Nunki, *ACHERNAR, *CANOPUS, *SIRIUS, and *Alphard.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *ANTARES, *Nunki, *ACHERNAR, *CANOPUS, *SIRIUS, and *Alphard.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *ANTARES, *Nunki, *ACHERNAR, *CANOPUS, *SIRIUS, and *Alphard.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *ANTARES, *Nunki, *ACHERNAR, *CANOPUS, *SIRIUS, and *Alphard.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *ALTAIR, *FOMALHAUT, *ACHERNAR, *CANOPUS, *RIGIL KENT, *ANTARES, and *Nunki.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *ALTAIR, *FOMALHAUT, *ACHERNAR, *CANOPUS, *RIGIL KENT, *ANTARES, and *Nunki.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *ALTAIR, *FOMALHAUT, *ACHERNAR, *CANOPUS, *RIGIL KENT, *ANTARES, and *Nunki.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *ALTAIR, *FOMALHAUT, *ACHERNAR, *CANOPUS, *RIGIL KENT, *ANTARES, and *Nunki.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *ALTAIR, *FOMALHAUT, *ACHERNAR, *CANOPUS, *RIGIL KENT, *ANTARES, and *Nunki.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *ALTAIR, *FOMALHAUT, *ACHERNAR, *CANOPUS, *RIGIL KENT, *ANTARES, and *Nunki.

Table with 15 columns: LHA, Hc, Zn, *SPICA, *ANTARES, *Peacock, *ACHERNAR, CANOPUS, *SIRIUS, *Alphard. Contains star coordinates and magnitudes for the first half of the sky.

Table with 15 columns: LHA, Hc, Zn, *ALTAIR, *FOMALHAUT, *ACHERNAR, CANOPUS, *RIGIL KENT, *SPICA, *ANTARES, Nunki. Contains star coordinates and magnitudes for the second half of the sky.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *SPICA, *ANTARES, *Peacock, *ACHERNAR, *CANOPUS, *SIRIUS, *Alphard.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *ALTAIR, *FOMALHAUT, *ACHERNAR, *CANOPUS, *RIGIL KENT, *SPICA, *ANTARES.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *SPICA, *ANTARES, *Peacock, *ACHERNAR, *CANOPUS, *Suhail, *Alphard.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *ALTAIR, *FOMALHAUT, *ACHERNAR, *CANOPUS, *RIGIL KENT, *ANTARES, *Nunki.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *ANTARES, *Nunki, *Peacock, *ACHERNAR, *CANOPUS, *Suhail, *SPICA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *FOMALHAUT, *ACHERNAR, *CANOPUS, *RIGIL KENT, *ANTARES, *Nunki, *ALTAIR.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *ANTARES, *Nunki, *Peacock, *ACHERNAR, *CANOPUS, *Suhail, *SPICA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *FOMALHAUT, *ACHERNAR, *CANOPUS, *RIGIL KENT, *ANTARES, *Nunki, *ALTAIR.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *ANTARES, *Nunki, *FOMALHAUT, *ACHERNAR, *CANOPUS, *ACRUX, *SPICA.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *FOMALHAUT, *ACHERNAR, *CANOPUS, *RIGIL KENT, *ANTARES, *Nunki, *ALTAIR.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *ALTAIR, *FOMALHAUT, *ACHERNAR, *CANOPUS, *ACRUX, *SPICA, *ANTARES.

Table with 13 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like *Diphda, *Acamar, *CANOPUS, *Miaplacidus, *RIGIL KENT, *Nunki, *FOMALHAUT.

Star chart grid for Lat 60 S, columns labeled LHA, Hc, Zn, and rows containing star names like Diphda, CANOPUS, Miaplacidus, Peacock, FOMALHAUT, SIRIUS, Alphas, etc. with associated coordinates.

Star chart grid for Lat 60 S, columns labeled LHA, Hc, Zn, and rows containing star names like SIRIUS, Alphas, Suhail, RIGIL KENT, Peacock, ACHERNAR, etc. with associated coordinates.

Table with 15 columns (LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn) and multiple rows of astronomical data. The table is organized into sections with star names like SPICA, ANTAIRES, Peacock, ACHERNAR, CANOPUS, *SIRIUS, *Alphard, *ALTAIR, FOMALHAUT, *ACHERNAR, CANOPUS, *RIGIL KENT, ANTAIRES, Nunki, *ANTARES, and *ALTAIR. Each row contains numerical values representing celestial coordinates and other data points.

Table with 15 columns: LHA, Hc, Zn, *RIGEL, CANOPUS, *RIGIL KENT, Peacock, *FOMALHAUT, Diphda, *SIRIUS, Suhail, *RIGIL KENT, Peacock, *FOMALHAUT, Diphda. Rows 0-14.

Table with 15 columns: *RIGEL, SIRIUS, CANOPUS, *RIGIL KENT, Peacock, *FOMALHAUT, Diphda, Alphard, *Gienah, RIGIL KENT, *Peacock, ACHERNAR, *RIGEL, SIRIUS. Rows 15-29.

Table with 15 columns: *RIGEL, SIRIUS, CANOPUS, *RIGIL KENT, Peacock, *FOMALHAUT, Diphda, Alphard, *SPICA, RIGIL KENT, *Peacock, ACHERNAR, *RIGEL, SIRIUS. Rows 30-44.

Table with 15 columns: RIGEL, *SIRIUS, CANOPUS, *RIGIL KENT, Peacock, *FOMALHAUT, *Diphda, REGULUS, *SPICA, RIGIL KENT, *Peacock, ACHERNAR, CANOPUS, *SIRIUS. Rows 45-59.

Table with 15 columns: RIGEL, *SIRIUS, Suhail, *RIGIL KENT, Peacock, FOMALHAUT, *Diphda, REGULUS, *SPICA, RIGIL KENT, *Peacock, ACHERNAR, CANOPUS, *SIRIUS. Rows 60-74.

Table with 15 columns: RIGEL, *SIRIUS, Suhail, *RIGIL KENT, Peacock, ACHERNAR, *Diphda, *SPICA, ANTARES, *Peacock, ACHERNAR, CANOPUS, *SIRIUS, Alphard. Rows 75-89.

Table with 15 columns: LHA, Hc, Zn, *SIRIUS, Suhail, *RIGIL KENT, Peacock, *ACHERNAR, Acamar, RIGEL. Rows 90-104.

Table with 15 columns: *SIRIUS, Suhail, *RIGIL KENT, *Peacock, ACHERNAR, *RIGEL, SIRIUS. Rows 105-119.

Table with 15 columns: *SIRIUS, Suhail, *RIGIL KENT, *Peacock, ACHERNAR, *RIGEL, SIRIUS. Rows 120-134.

Table with 15 columns: REGULUS, *SPICA, RIGIL KENT, *Peacock, ACHERNAR, CANOPUS, *SIRIUS. Rows 135-149.

Table with 15 columns: REGULUS, *SPICA, RIGIL KENT, *Peacock, ACHERNAR, CANOPUS, *SIRIUS. Rows 150-164.

Table with 15 columns: REGULUS, *SPICA, RIGIL KENT, *Peacock, ACHERNAR, CANOPUS, *SIRIUS, Alphard. Rows 165-179.

Table with 13 columns: LHA, Spica, Antares, Peacock, Achernar, Canopus, Suhail, Alphard. Contains star coordinates and identifiers.

Table with 13 columns: Antares, Nunki, Peacock, Achernar, Canopus, Suhail, Spica. Contains star coordinates and identifiers.

Table with 13 columns: Antares, Nunki, Fomalhaut, Achernar, Canopus, Suhail, Spica. Contains star coordinates and identifiers.

Table with 13 columns: Antares, Nunki, Fomalhaut, Achernar, Canopus, Acrux, Spica. Contains star coordinates and identifiers.

Table with 13 columns: Nunki, Fomalhaut, Achernar, Canopus, Acrux, Spica, Antares. Contains star coordinates and identifiers.

Table with 13 columns: Altair, Fomalhaut, Achernar, Canopus, Rigel Kent, Antares, Nunki. Contains star coordinates and identifiers.

Table with 13 columns: Altair, Fomalhaut, Achernar, Canopus, Rigel Kent, Antares, Nunki. Contains star coordinates and identifiers.

Table with 13 columns: Fomalhaut, Achernar, Canopus, Rigel Kent, Antares, Altair. Contains star coordinates and identifiers.

Table with 13 columns: Fomalhaut, Achernar, Canopus, Rigel Kent, Antares, Nunki, Altair. Contains star coordinates and identifiers.

Table with 13 columns: Fomalhaut, Achernar, Canopus, Rigel Kent, Antares, Nunki. Contains star coordinates and identifiers.

Table with 13 columns: Dipha, Acamar, Canopus, Rigel Kent, Antares, Nunki, Fomalhaut. Contains star coordinates and identifiers.

Table with columns for LHA, Hc, Zn, and star names (e.g., Diphda, CANOPUS, *RIGEL, Peacock, *FOMALHAUT, *SIRIUS, Suhail, *RIGIL KENT, *ACHERNAR, Acamar, RIGEL). The table contains 100 rows of astronomical data.

Table with columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like ANTARES, Peacock, ACHERNAR, CANOPUS, Suhail, and Alphard.

Table with columns: SPICA, ANTARES, Peacock, ACHERNAR, CANOPUS, Suhail, Alphard. Rows include star names like SPICA, ANTARES, Peacock, ACHERNAR, CANOPUS, Suhail, and Alphard.

Table with columns: ANTARES, Nunki, Peacock, ACHERNAR, CANOPUS, Suhail, SPICA. Rows include star names like ANTARES, Nunki, Peacock, ACHERNAR, CANOPUS, Suhail, and SPICA.

Table with columns: ANTARES, Nunki, FOMALHAUT, ACHERNAR, CANOPUS, Suhail, SPICA. Rows include star names like ANTARES, Nunki, FOMALHAUT, ACHERNAR, CANOPUS, Suhail, and SPICA.

Table with columns: ANTARES, Nunki, FOMALHAUT, ACHERNAR, CANOPUS, ACROUS, SPICA, ANTARES, Nunki. Rows include star names like ANTARES, Nunki, FOMALHAUT, ACHERNAR, CANOPUS, ACROUS, SPICA, ANTARES, and Nunki.

Table with columns: Nunki, FOMALHAUT, ACHERNAR, CANOPUS, ACROUS, SPICA, ANTARES, Nunki. Rows include star names like Nunki, FOMALHAUT, ACHERNAR, CANOPUS, ACROUS, SPICA, ANTARES, and Nunki.

Table with columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like ALTAIR, FOMALHAUT, ACHERNAR, CANOPUS, RIGIL KENT, SPICA, and ANTARES.

Table with columns: ALTAIR, FOMALHAUT, ACHERNAR, CANOPUS, RIGIL KENT, ANTARES, Nunki. Rows include star names like ALTAIR, FOMALHAUT, ACHERNAR, CANOPUS, RIGIL KENT, ANTARES, and Nunki.

Table with columns: FOMALHAUT, ACHERNAR, CANOPUS, RIGIL KENT, ANTARES, Nunki, ALTAIR. Rows include star names like FOMALHAUT, ACHERNAR, CANOPUS, RIGIL KENT, ANTARES, Nunki, and ALTAIR.

Table with columns: FOMALHAUT, ACHERNAR, CANOPUS, RIGIL KENT, ANTARES, Nunki, ALTAIR. Rows include star names like FOMALHAUT, ACHERNAR, CANOPUS, RIGIL KENT, ANTARES, Nunki, and ALTAIR.

Table with columns: FOMALHAUT, Dipdha, ACHERNAR, CANOPUS, RIGIL KENT, ANTARES, Nunki. Rows include star names like FOMALHAUT, Dipdha, ACHERNAR, CANOPUS, RIGIL KENT, ANTARES, and Nunki.

Table with columns: Dipdha, Acamar, CANOPUS, RIGIL KENT, ANTARES, Nunki, FOMALHAUT. Rows include star names like Dipdha, Acamar, CANOPUS, RIGIL KENT, ANTARES, Nunki, and FOMALHAUT.

Table with columns LHA, Hc, Zn and star names: Diphda, *RIGEL, CANOPUS, *RIGIL KENT, Peacock, *FOMALHAUT. Contains 15 rows of coordinate data.

Table with columns *RIGEL, SIRIUS, CANOPUS, *RIGIL KENT, Peacock, *FOMALHAUT, Diphda. Contains 15 rows of coordinate data.

Table with columns *RIGEL, SIRIUS, CANOPUS, *RIGIL KENT, Peacock, *FOMALHAUT, Diphda. Contains 15 rows of coordinate data.

Table with columns RIGEL, *SIRIUS, CANOPUS, *RIGIL KENT, Peacock, *FOMALHAUT, *Diphda. Contains 15 rows of coordinate data.

Table with columns RIGEL, *SIRIUS, Suhail, *RIGIL KENT, Peacock, FOMALHAUT, *Diphda. Contains 15 rows of coordinate data.

Table with columns RIGEL, *SIRIUS, Suhail, *RIGIL KENT, Peacock, ACHERNAR, *Diphda. Contains 15 rows of coordinate data.

Table with columns LHA, Hc, Zn and star names: *SIRIUS, Suhail, *RIGIL KENT, Peacock, *ACHERNAR, Acamar, RIGEL. Contains 15 rows of coordinate data.

Table with columns *SIRIUS, *Gienah, RIGIL KENT, *Peacock, ACHERNAR, *RIGEL, SIRIUS. Contains 15 rows of coordinate data.

Table with columns Alphard, *SPICA, RIGIL KENT, *Peacock, ACHERNAR, *RIGEL, SIRIUS. Contains 15 rows of coordinate data.

Table with columns REGULUS, *SPICA, RIGIL KENT, *Peacock, ACHERNAR, CANOPUS, *SIRIUS. Contains 15 rows of coordinate data.

Table with columns REGULUS, *SPICA, RIGIL KENT, *Peacock, ACHERNAR, CANOPUS, *SIRIUS. Contains 15 rows of coordinate data.

Table with columns REGULUS, *SPICA, ANTARES, *Peacock, ACHERNAR, CANOPUS, *SIRIUS, Alphard. Contains 15 rows of coordinate data.

Table with 12 columns: LHA, Hc, Zn, *ANTARES, Peacock, *ACHERNAR, CANOPUS, Suhail, *Alphard. Rows 180-194.

Table with 12 columns: LHA, Hc, Zn, *ANTARES, Peacock, *ACHERNAR, CANOPUS, Suhail, *Alphard. Rows 195-209.

Table with 12 columns: LHA, Hc, Zn, *ANTARES, *Nunki, Peacock, *ACHERNAR, *CANOPUS, Suhail, *SPICA. Rows 210-224.

Table with 12 columns: LHA, Hc, Zn, *ANTARES, *Nunki, *FOMALHAUT, *ACHERNAR, *CANOPUS, Suhail, *SPICA. Rows 225-239.

Table with 12 columns: LHA, Hc, Zn, *ANTARES, Nunki, *FOMALHAUT, *ACHERNAR, CANOPUS, *ACRUX, SPICA, *ANTARES. Rows 240-254.

Table with 12 columns: LHA, Hc, Zn, Nunki, *FOMALHAUT, *ACHERNAR, CANOPUS, *ACRUX, SPICA, *ANTARES. Rows 255-269.

Table with 12 columns: LHA, Hc, Zn, *ALTAIR, FOMALHAUT, *ACHERNAR, CANOPUS, *RIGIL KENT, ANTARES, Nunki. Rows 270-284.

Table with 12 columns: LHA, Hc, Zn, *ALTAIR, FOMALHAUT, *ACHERNAR, CANOPUS, *RIGIL KENT, ANTARES, Nunki. Rows 285-299.

Table with 12 columns: LHA, Hc, Zn, *FOMALHAUT, *ACHERNAR, *CANOPUS, *RIGIL KENT, ANTARES, Nunki, *ALTAIR. Rows 300-314.

Table with 12 columns: LHA, Hc, Zn, *FOMALHAUT, *ACHERNAR, *CANOPUS, *RIGIL KENT, *ANTARES, Nunki, *ALTAIR. Rows 315-329.

Table with 12 columns: LHA, Hc, Zn, *FOMALHAUT, Diphda, *ACHERNAR, *CANOPUS, RIGIL KENT, *ANTARES, Nunki. Rows 330-344.

Table with 12 columns: LHA, Hc, Zn, *Diphda, *ACMAR, *CANOPUS, RIGIL KENT, *ANTARES, Nunki, FOMALHAUT. Rows 345-359.

Table with astronomical data including star names (SPICA, ANTARES, Peacock, ACHERNAR, CANOPUS, Suhail, Alphard), coordinates (LHA, Hc, Zn), and multiple columns of numerical values representing star positions and magnitudes.

Table with columns LHA, Hc, Zn and rows of star data including names like Diphda, CANOPUS, *RIGIL KENT, Peacock, *FOMALHAUT, and *SIRIUS.

Table with columns LHA, Hc, Zn and rows of star data including names like *SIRIUS, Suhail, *RIGIL KENT, *Peacock, *ACHERNAR, and *SIRIUS.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like SPICA, ANTARES, Peacock, ACHERNAR, CANOPUS, Suhail, and Alphard.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like SPICA, ANTARES, Peacock, ACHERNAR, CANOPUS, Suhail, and Alphard.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like ANTARES, Nunki, Peacock, ACHERNAR, CANOPUS, Suhail, and SPICA.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like ANTARES, Nunki, FOMALHAUT, ACHERNAR, CANOPUS, Suhail, and SPICA.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like ANTARES, Nunki, FOMALHAUT, ACHERNAR, CANOPUS, ACRUZ, SPICA, and ANTARES.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Nunki, FOMALHAUT, ACHERNAR, CANOPUS, ACRUZ, SPICA, ANTARES, and Nunki.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like ALTAIR, FOMALHAUT, ACHERNAR, CANOPUS, RIGIL KENT, ANTARES, and Nunki.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like ALTAIR, FOMALHAUT, ACHERNAR, CANOPUS, RIGIL KENT, ANTARES, and Nunki.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like FOMALHAUT, ACHERNAR, CANOPUS, RIGIL KENT, ANTARES, Nunki, and ALTAIR.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like FOMALHAUT, ACHERNAR, CANOPUS, RIGIL KENT, ANTARES, Nunki, and ALTAIR.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like FOMALHAUT, Dipha, ACHERNAR, CANOPUS, RIGIL KENT, ANTARES, and Nunki.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows include star names like Dipha, Acamar, CANOPUS, RIGIL KENT, ANTARES, Nunki, and FOMALHAUT.

Table with columns for LHA, Hc, Zn, and star names (e.g., *SPICA, ANTARES, *Peacock, ACHERNAR, *CANOPUS, SIRIUS, *Alphard, *Nunki, FOMALHAUT, *ACHERNAR, CANOPUS, *ACRUX, SPICA, ANTARES, *ALTAIR, FOMALHAUT, *ACHERNAR, CANOPUS, *RIGIL KENT, ANTARES, Nunki, *ANTARES, Nunki, *FOMALHAUT, ACHERNAR, CANOPUS, *Subail, SPICA, *FOMALHAUT, ACHERNAR, *CANOPUS, RIGIL KENT, *ANTARES, Nunki, *ANTARES, Nunki, *FOMALHAUT, ACHERNAR, CANOPUS, *Subail, SPICA, *FOMALHAUT, ACHERNAR, *CANOPUS, Miaplacidus, RIGIL KENT, *ANTARES, Nunki, *ANTARES, Nunki, *FOMALHAUT, ACHERNAR, *CANOPUS, Miaplacidus, RIGIL KENT, *ANTARES, Nunki, *Nunki, FOMALHAUT, *ACHERNAR, CANOPUS, *ACRUX, SPICA, ANTARES, Diphda, *CANOPUS, Miaplacidus, RIGIL KENT, *ANTARES, Nunki, *FOMALHAUT).

Table of astronomical data with columns for LHA, Hc, Zn, and star names (e.g., Diphda, CANOPUS, Miaplacidus, *RIGEL KENT, Peacock, *FOMALHAUT, *SIRIUS, Suhail, *RIGIL KENT, Peacock, *ACHERNAR, *CANOPUS, SIRIUS, Alphard). Each row contains coordinates and star identifiers.

Table with columns for LHA, Hc, Zn, and star names (e.g., ANTARES, ACHERNAR, CANOPUS, SIRIUS, Altair, Fomalhaut, etc.) and their corresponding coordinates.

Table with columns for LHA, Hc, Zn, and star names (e.g., Diphda, CANOPUS, *RIGIL KENT, Peacock, *FOMALHAUT, *SIRIUS, *Gienah, RIGIL KENT, *Peacock, ACHERNAR, *RIGEL, SIRIUS). The table contains 100 rows of star data, each with 16 columns of coordinates and names.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows contain star names like ANTARES, Peacock, ACHERNAR, CANOPUS, SIRIUS, Alphard.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows contain star names like ANTARES, Nunki, FOMALHAUT, ACHERNAR, CANOPUS, ACRUX, SPICA, ANTARES, Nunki.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows contain star names like Nunki, FOMALHAUT, ACHERNAR, CANOPUS, ACRUX, SPICA, ANTARES, Nunki.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows contain star names like Diphda, CANOPUS, MIACLACIDUS, RIGIL KENT, ANTARES, Nunki, FOMALHAUT.

Table with 13 columns (LHA, Hc, Zn) and 13 rows of star data. Includes star names like Diphda, RIGEL, CANOPUS, Miaplacidus, *RIGIL KENT, Peacock, *FOMALHAUT, *SPICA, *ANTARES, Nunki, FOMALHAUT, *ACHERNAR, CANOPUS, *Suhail, and SPICA.

Table with 13 columns (LHA, Hc, Zn) and 13 rows of star data. Includes star names like Suhail, *SPICA, RIGIL KENT, Peacock, *FOMALHAUT, ACHERNAR, *SIRIUS, *Nunki, *FOMALHAUT, ACHERNAR, *CANOPUS, ACRIUS, RIGIL KENT, *ANTARES, and Nunki.

Table with 13 columns (LHA, Hc, Zn) and 13 rows of star data. Includes star names like SPICA, *ANTARES, Nunki, FOMALHAUT, *ACHERNAR, CANOPUS, *Suhail, and SPICA.

Table with 13 columns (LHA, Hc, Zn) and 13 rows of star data. Includes star names like *Nunki, FOMALHAUT, *ACHERNAR, CANOPUS, *ACRIUS, RIGIL KENT, *ANTARES, and Nunki.

Table with columns: LHA, Hc, Zn, *RIGEL, CANOPUS, Miaplacidus, *RIGIL KENT, Peacock, *FOMALHAUT, SPICA, *ANTARES, Nunki, *FOMALHAUT, *ACHERNAR, CANOPUS, *Suhail, SPICA. Rows 0-188.

Table with columns: LHA, Hc, Zn, *ANTARES, Nunki, *FOMALHAUT, ACHERNAR, CANOPUS, *Suhail, SPICA, *Nunki, *FOMALHAUT, *ACHERNAR, CANOPUS, *ACRUX, RIGIL KENT, *ANTARES, Nunki, *FOMALHAUT, Diphda, *CANOPUS, ACRUX, RIGIL KENT, *ANTARES, Nunki. Rows 189-352.

Table with 28 columns (LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn) and 1000 rows of astronomical data including star names like Diphda, RIGEL, CANOPUS, etc.

Table with 14 columns: LHA, Hc, Zn, *RIGEL, *SIRIUS, Suhail, *RIGIL KENT, Peacock, *FOMALHAUT, Diphda, *ANTARES, Nunki, *FOMALHAUT, ACHERNAR, CANOPUS, *Suhail, SPICA. Rows 0-180.

Table with 14 columns: LHA, Hc, Zn, *RIGEL, *SIRIUS, Suhail, *RIGIL KENT, Peacock, *FOMALHAUT, Diphda, *ANTARES, Nunki, *FOMALHAUT, ACHERNAR, CANOPUS, *Suhail, SPICA. Rows 180-360.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Contains star data for various constellations like Diphda, CANOPUS, ACRUX, RIGIL KENT, etc.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Contains star data for various constellations like SPICA, *ANTARES, Nunki, FOMALHAUT, etc.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows contain star names like *SIRIUS, Suhail, ACRIX, *RIGIL KENT, Peacock, *FOMALHAUT, ACHERNAR, and coordinates.

Table with 12 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Rows contain star names like SPICA, *ANTARES, Peacock, FOMALHAUT, ACHERNAR, CANOPUS, *Suhail, and coordinates.

Table with 10 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Includes star names like *SIRIUS, *RIGIL KENT, *FOMALHAUT, *ACHERNAR, *CANOPUS, *Suhail, *SPICA, *ANTARES, and numerical data for coordinates.

Table with 10 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. Includes star names like *ANTARES, *Nunki, *FOMALHAUT, *ACHERNAR, *CANOPUS, *Suhail, *SPICA, *RIGIL KENT, *ACHERNAR, *CANOPUS, *Suhail, *SPICA, and numerical data for coordinates.

Table with 14 columns: LHA, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn, Hc, Zn. It lists astronomical coordinates and identifiers for various stars and constellations such as Acheron, Spica, Antares, and others.

Table with columns: LHA, Hc, Zn, *SIRIUS, Suhail, ACRUX, *RIGIL KENT, Peacock, *FOMALHAUT, *ACHERNAR, SIRIUS. Contains star coordinates and identifiers for the southern sky region.

Table with columns: LHA, SPICA, *ANTARES, Peacock, FOMALHAUT, *ACHERNAR, CANOPUS, *Suhail, SPICA. Contains star coordinates and identifiers for the southern sky region.

Table with columns for LHA, Hc, Zn, and star names such as ACHERNAR, *SIRIUS, Suhail, ACRUX, *RIGIL KENT, Peacock, *FOMALHAUT, ACHERNAR, SIRIUS. Contains star positions and names for the southern constellation of Lat 86 S.

Table with columns for LHA, Hc, Zn, and star names such as SPICA, *ANTARES, Peacock, FOMALHAUT, *ACHERNAR, CANOPUS, *Suhail, SPICA. Contains star positions and names for the southern constellation of Lat 86 S, continuing from the first table.

Astronomical data table with 48 columns (LHA, Hc, Zn, etc.) and multiple rows of star coordinates and names. The table is divided into several sections by star names like ACHERNAR, SIRIUS, etc., and includes various star types and coordinates.

Table with columns for LHA, Hc, Zn, and star names (e.g., ACHERNAR, *SIRIUS, Suhail, ACRUX, *RIGIL KENT, Peacock, *FOMALHAUT, *ACHERNAR, SIRIUS, *FOMALHAUT, ACHERNAR, *CANOPUS, *RIGIL KENT, ANTARES, Nunki). Rows contain numerical data for each star across various parameters.

