

## HCR & Distance Observation

From	To	HCR; Set-I	H. Angle	HCR; Set-II	H. Angle	Mean H. Angle	H. Distance	Mean	H. Distance Precision	V. Distance	Pole Ht.
M3	M2	00°00'00"	201°27'05"	90°00'00"	201°27'06"	201°27'06"	105.981	105.974	7065	3.670	1.400
		180°00'00"		270°00'02"							
	M4	201°27'03"		291°27'06"			113.554	113.545	6308	-3.529	1.285
		381°27'07"		471°27'08"							
M4	M3	00°00'00"	158°07'11"	90°00'00"	158°07'15"	158°07'13"	113.536	121.381	12138	3.746	1.400
		180°00'12"		270°00'04"							
	M5	158°07'24"		248°07'18"			121.376			-4.942	1.600
		338°07'09"		428°07'16"							
M5	M4	00°00'00"	137°36'34"	90°00'00"	137°36'25"	137°36'30"	121.386	78.104	8678	5.149	1.400
		180°00'03"		180°00'01"							
	M6	137°36'44"		227°36'22"			78.108			-7.763	1.300
		317°36'28"		317°36'28"							
M6	M5	00°00'00"	148°52'36"	90°00'00"	148°52'37"	148°52'36"	78.099	61.790	61790	7.552	1.300
		179°59'56"		270°00'04"							
	M7	148°52'40"		238°52'35"			61.790			-3.870	1.300
		328°52'28"		418°52'42"							
M7	M6	00°00'00"	161°35'25"	90°00'00"	161°35'26"	161°35'26"	61.789	102.342	34114	3.750	1.350
		179°59'56"		270°00'04"							
	M8	161°35'26"		251°35'25"			102.340			3.636	1.305
		341°35'20"		431°35'32"							
M8	M7	00°00'00"	258°33'07"	90°00'00"	258°33'10"	258°33'09"	102.343	88.997	88996	-3.384	1.330
		180°00'12"		270°00'08"							
	M9	258°33'21"		348°33'12"			88.996			1.826	1.300
		438°33'05"		528°33'16"							

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M9	M8	00°00'00"	143°49'34"	90°00'00"	143°49'31"	143°49'32"	88.997	64.722	8090	-1.837	1.400
		179°59'54"		269°59'58"							
	M10	143°49'31"		233°49'32"			64.726			2.160	1.530
		323°49'30"		413°49'28"							
M10	M9	00°00'00"	127°18'34"	90°00'00"	127°18'32"	127°18'33"	64.718	69.386	8673	-1.162	2.150
		180°00'12"		270°00'01"							
	M11	127°18'47"		217°18'35"			69.390			-1.853	1.350
		307°18'32"		397°18'30"							
M11	M10	00°00'00"	140°37'54"	90°00'00"	140°37'54"	140°37'54"	69.382	96.557	19311	2.002	1.310
		180°00'00"		270°00'07"							
	M12	140°38'00"		230°37'56"			96.554			10.017	2.100
		320°37'48"		410°37'59"							
M12	M11	00°00'00"	174°15'09"	90°00'00"	174°15'11"	174°15'10"	96.559	71.872	35936	-8.398	2.150
		180°00'14"		269°59'58"							
	M13	174°15'11"		264°15'08"			71.871			0.812	2.100
		354°15'21"		444°15'12"							
M13	M12	00°00'00"	98°31'26"	90°00'00"	98°31'13"	98°31'20"	71.873	78.021	11146	-0.714	2.100
		179°59'54"		270°00'11"							
	M14	98°31'24"		188°31'25"			78.024			1.214	1.700
		278°31'22"		368°31'12"							
M14	M13	00°00'00"	260°37'07"	90°00'00"	260°36'59"	260°37'03"	78.017	88.796	9866	-0.814	1.400
		179°59'59"		270°00'05"							
	M15	260°37'09"		350°37'06"			88.800			1.127	1.300
		440°37'04"		530°36'58"							
M15	M14	00°00'00"	162°07'12"	90°00'00"	162°07'11"	162°07'11"	88.791	112.033	112032	-1.258	1.300
		179°59'46"		269°59'57"							
	M16	162°07'06"		252°07'10"			112.032			5.534	1.350
		342°07'04"		432°07'08"							

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M16	M15	00°00'00"	121°26'19"	90°00'00"	121°26'22"	121°26'21"	112.033	115.652	14456	-5.692	1.300
		180°00'01"		270°00'03"							
	M17	121°26'18"		211°26'22"			115.656			2.542	1.350
		301°26'21"		391°26'25"							
M17	M16	00°00'00"	199°15'05"	90°00'00"	199°15'00"	199°15'03"	115.648	88.112	6294	-2.807	1.300
		180°00'08"		270°00'13"							
	CP1	199°15'04"		289°15'08"			88.119			5.220	1.800
		379°15'15"		469°15'05"							
CP1	M17	00°00'00"	114°54'53"	90°00'00"	114°54'57"	114°54'55"	88.105	126.747	7922	-4.925	1.400
		180°00'10"		270°00'05"							
	CP2	114°55'02"		204°54'56"			126.755			-2.743	1.550
		294°54'54"		384°55'03"							
CP2	CP1	00°00'00"	191°31'43"	90°00'00"	191°31'31"	191°31'37"	126.739	91.688	5393	3.444	2.000
		179°59'48"		269°59'55"							
	M1	191°31'46"		281°31'33"			91.696			-1.616	1.300
		371°31'28"		461°31'25"							
M1	CP2	00°00'00"	148°48'59"	90°00'00"	148°49'02"	148°49'00"	91.679	92.485	6166	1.788	1.600
		179°59'52"		270°00'06"							
	M2	148°48'50"		238°49'03"			92.477			-0.902	1.750
		328°49'00"		418°49'06"							
M2	M1	00°00'00"	110°33'37"	90°00'00"	110°33'36"	110°33'36"	92.492	105.974	7065	1.186	1.600
		180°00'01"		270°00'02"							
	M3	110°33'40"		200°33'36"			105.966			-3.364	1.650
		290°33'34"		380°33'38"							