## Mike Hotka's Solar Neighborhood 100 Telescopic Observations

I observed 100 Solar Neighborhood stars from various locations in Colorado.

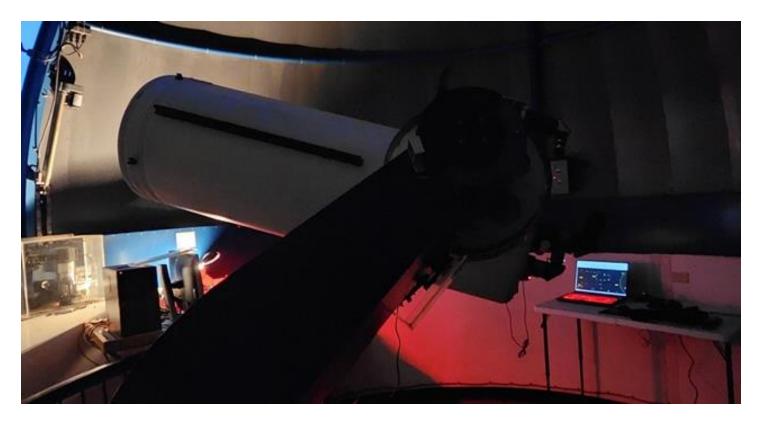
I am a member of the Longmont Astronomical Society. Please have my name read Michael A. Hotka on my certificate.

This is my typical setup to make my observations of these stars.



I used my 8" f/6 Newtonian for the Telescopic observations.





This is the 18" f/14.2 Classical Cassegrain telescope I used for some of my observations. My laptop running Sky Tools 4 helped me identify the star fields the Solar Neighborhood star was located in.

						_
AL#	Name	Constellation	Vmag	Distance ly	1	
288	120ph	Dph	5.77	32.25		
	Star Type	Location	Latitude	Longitude	\	
	(<1	Dertrail, W	390 38.6'	w 103° 55,7		N
	Date	Transp SQM or	Transp NELM	Seeing		E. 7
	9/23/22	Goo		Good		
	Time	Instrument and m	agnification	Color		107 8.
	7:54 P		Housan 64x	Blue White		
	Name Star	Constellation	Vmag	Distance ly		
4	Barnand's	Oph	9.51	5.96		
- 1	Star Type		Latitude	Longitude	1/	
	M3.5	Durtrail, 60	390 38.6'	w 103°55.7'	. , , +	
	Date	Transp SQM or	Transp NELM	Seeing		- 1
	9/23/22	600		Good		EXT
	Time	Instrument and m		Color	, /	
	8,166	8" 216 1	9mm 64x	Hint of Red		
AL#	Name	Constellation	Vmag	Distance ly		
66	70 Oph	Oph		16.67		
	Star Type		Latitude	Longitude	/ • *	N.
	KO	Deurtrail, Lo	39039.61	m 103° 55.7'		E
	Date	Transp SQM or	Transp NELM	Seeing		
	9/23/22	Good		6001	/	
	Time	Instrument and m	nagnification	Color		
	8137	8" \$16 Newt	onian 64x	white		
AL#	Name	Constellation	Vmag	Distance ly		
124	X: Boo	B00	4.68	22.02		
	Star Type	Alman	Latitude	Longitude	/	NE
	67	Deer Trail, 10	39°38.6'	w 103° 55.7'		1
	Date	Transp SQM or		Seeing		
	9/23/22	600	7	Good	1, ./	
	Time	Instrument and m	nagnification	Color	. /	
	8 (5)	8" f/6 New	tonian 64x	white		
AL#	Name	Constellation	Vmag	Distance ly		
159	Vega	Lyr	0.03	25.03		
	Star Type	Location	Latitude	Longitude	/	
	AO	Our Trail, CO	39°38.6'	103° 55.7'	`	E
	Date		Transp NELM	Seeing	•	ENN
	9/23/22	6002		600 d		*
	Time	Instrument and m	agnification	Color		
	9:00	8" 8/6 1200	tonian 64x	Blue white		
		1 / Vew	Conjun 64X	3.00		

AL#		Constellation	Vmag	Distance ly		
175	Ohi Dra	Dra	3.58	26.27		
	Star Type		Latitude	Longitude	/	
	F7	Deur Trail, CO	39 38.6'	w 103°55.7'		
	Date	Transp SQM or	Transp NELM	Seeing	, , , , ,	
	9/23/22	600	29	Good	. /	1 DE
	Time	Instrument and m		Color	1 /	N
	9115	8° 2/6 Now	tonian 64x			
	Name	Constellation	Vmag 3,42	Distance ly		
191	Mu Her	Her	10.49	27.19		
192	Star Type	Location	Latitude	Longitude	(92	-
	M3.5	Dertrail CO	39 0 38.6	w103° 55.7'	K	F-N
	Date	Transp SQM or	Transp NELM	Seeing	191 -	,— N
	9/23/22	6000	1	Good		
	Time	Instrument and n	nagnification	Color	1	
	9:24	8" \$16 New	tonian 648	white		
AL#	Name	Constellation	Vmag	Distance ly		
79	Alsafi	Sig Dra	4.68	18.79		
	Star Type	Location	Latitude	Longitude	1/	
	69	Diertrail, CO	39°38.6'	w 103° 55.71		
	Date	Transp SQM or	Transp NELM	Seeing		JE
	9/23/22	600	2	6000	, ,	A
	Time	Instrument and	magnification	Color		H
	9:418	8"8/6 New	tonian 64x	white		
AL#	Name	Constellation	Vmag	Distance ly		
68	Altair	491	0.76	16.72		
	Star Type	Location	Latitude	Longitude	1/	
	47	Due Trail Co	39 ° 38.6′	w 103° 55.7'		1
	Date	Transp SQM or	Transp NELM	Seeing		
	9/23/22	6000		6007	/	
	Time	Instrument and	magnification	Color		
The Review	9:49	8" \$16 New	utonian 64x	Blue white		
AL#	# Name	Constellation	Vmag	Distance ly		
148	Formal host	P3A		25.11		
	Star Type	Location	Latitude	Longitude	\	
	A4	DescTrail (0	39° 38.6′ r_Transp NELM	w103°5517	,	Af
	Date	Transp SQM o	r Transp NELM	Seeing		100
	9/23/22	OK		OK	*	3
	Time	Instrument and	magnification	Color		Ŧ
1	101020	818/4 Neur	onian 64x	white		
		4/4/-50	The same of the sa			

AL#	Name	Constellation	Vmag 3,44	Distance ly		
89	Achiral	Eta Cao	7.57	19.32		
90	Star Type	Location News	Latitude	Longitude	1/:	
	F9 K7æ	Doer Trail, Co	39538.61	W103° 55,7		<b>V</b>
	Date	Transp SQM or		Seeing	1 1	1,49
	9/23/22	Good		Good	89 90	~ 4
	Time	Instrument and m	agnification	Color	1\ ' /	=
	10112	8"4/6 Newto	ntian 64x	tuhite		
10000	Name	Constellation	Vmag	Distance ly		
27	To cet	Cet	3,50	11.91		
	Star Type	Location Near	Latitude	Longitude	1/ \	
	68.5	Doer Trail, CO	39 "58.6"	w103°55.7	1	
	Date	Transp SQM or	Transp NELM	Seeing		1 F
	9/23/22	OK		Poor		1
	Time	Instrument and m	agnification	Color	1	G
	10121 P	8" \$16 News	outan 64x	conte		
AL#	Name	Constellation	Vmag S 2/	Distance ly		
17	61 043	Cya	6.03	11.40		
18	Star Type	Location / ear	Latitude	Longitude	1/	E
	K7	Deer Trail, Co		~103°55.7'		All All
	Date	Transp SQM or	Transp NELM	Seeing	1 12 1	
	9/23/22	Good		6004	(8	
	Time	Instrument and m	agnification	Color		
	10137 P	8" f/4 Newto	nion belk	white		
The state of the s	Name	Constellation	Vmag 5.08	Distance ly		
91	36 oph	Oph	5.03	19,40		
-	Star Type K 2			Longitude	/	J
	KI	Berthad, CO		w 105,08°		1
19.75	Date	Transp SQM or		Seeing		to
	10/5/22	6000	1	Good		-
	Time	Instrument and m	A	Color	. /	
	7176	18" 8/14.2	Caso 124x	Both white		
AL#	Name		Vmag	Distance ly	-	
67	70000 6		6.07	16.64		
	Star Type		Latitude	Longitude	· · · \	
U.S.	K4	Berthoud, w		w105.08°	: -	₽N.
	Date	Transp SQM or		Seeing		1
115	10/5/22	600		Good	\	34
	Time	Instrument and ma		Color A Cheam		
	7/30	18° F/14.20	Cass 124x	E Orange		

AL#	Name	Constellation	Vmag	Distance ly	
291	CE Boo	Boo	10.15	37.43	
	Star Type		Latitude	Longitude	1. 1
	MI	Berthaud, Lo	40.31	m 102.08.	
	Date	Transp SQM or	Transp NELM	Seeing	
	10/5/22	Good		6-00-6	. /
	Time	Instrument and m	nagnification 37x	Color	
	7142		9 Balvactor	Reddich	
	Name		Vmag	Distance ly	
283	HD 151286	Wes	8.11	32.1	/ \
	Star Type	CC-1410	Latitude	Longitude	/
	K5	Berthonk, Lo	40.313	w 105 08	
	Date	Transp SQM or	Transp NELM	Seeing	
	10/5/22	Good		Good	\ . /
	Time	Instrument and m	nagnification	Color	
	7151	6" £/9 RS	inches 37x	Rend	
AL#	Name	Constellation	Vmag	Distance ly	
94	40 15587 G	Her	9.52	19.49	/ .
-	Star Type		Latitude	Longitude	/ \
	MB	Berthoud, to	40.310	w 105.0%	
	Date	Transp SQM or		Seeing	
	10/5/22	Cox	1	6000	1 , /
	Time	Instrument and m		Color	
	8113	6" 6/a 120	netor 37x	Reddon	
AL#	Name #10 66287		Vmag	Distance ly	
83	PPM 133435	Her	9.5%	26.6	/.
	Star Type		Latitude	Longitude	/
	MISE	Berthand, co	40.310	W105.090	
	Date	Transp SQM or		Seeing	
	10/5/22	G	500	6007	\ . ' ' ' /
	Time	Instrument and m	agnification	Color	
	8117	6" F/9 12ch	macher 37x	Reddish	
AL#	Name	Constellation	Vmag	Distance ly	
76	Chi Dra b	Dra	5.7	26.27	
	Star Type	Name and Address of the Parket	Latitude	Longitude	/
	KO	Berthard, Co	40.319	m 105,080	
	Date	Transp SQM or	Transp NELM	Seeing	*.
	10/5/22	OK		OK	\ /
	Time	Instrument and m	agnification	Color	\ /
	8130	18" 4/14.20	e al.	Reddish	

	The same					
AL#	Name	Constellation	Vmag	Distance ly		
22	40 173740	Dra	9.69	11.49		
	Star Type	Location	Latitude	Longitude	/	The same
	M3.5	Berthand	40.31	w/05.08°		E1 1
	Date	Transp SQM or	Transp NELM	Seeing	7'	EAT
	10/5/22	01	2	DK	\	, i
	Time	Instrument and m	nagnification	Color	\ /	1.00
	8145	1818/142	Con 1244	Radish		
AL#	Name	18 C/14.2	Vmag	Distance ly		
01	HD 173739	Dra	10011997.0	11.49		
31	Star Type	Location	Latitude	Longitude	/	-37
	M3	Bertloux, Lo	MICONDO.	w 105.080	\	En
	Date	Transp SQM or		Seeing	3.	V
			The second of the second	**************************************		A3
	10/5/22 Time	Instrument and m	annification	Color	/	
		A STATE OF THE PARTY OF THE PARTY OF		Control of the contro		
Δ1 #	%138 Name	6 4 9 Rul		Roddish		
			Vmag	Distance ly		
248	HIP 86776 Star Type		10.49	31.07		
	Star Type	Location	Latitude	Longitude	\ ' '	
	MZ.5	Prestond to	40.310	w/05.08°		
		Transp SQM or	Transp NELM	Seeing	2.5	EN
	10/5/22	DH		DX	\	W.
	Time	Instrument and m	agnification	Color		
	8:54	6"119 120	Evador 37x	Reddish		
AL#	Name	Constellation	Vmag	Distance ly		
2/0	HIP 94349	<u>A⊴</u>   Location	11.14	30.67		
200	Star Type	Location	Latitude	Longitude		
	M3.5e	Berthoul, co		w 105.080		
	Date	Transp SQM or		Seeing		1
	10/5/22	OK		0 K	\	E N
	Time	Instrument and m	agnification	Color	\ . /	
	9103	18" \$/14.2 (	ana 295x	off Where d		
AL#	Name	Constellation	Vmag	Distance ly		
128	HIR 10610C	Peg	10.3	22.1		
	Star Type	Location	Latitude	Longitude		100
		Berthaul, w	40.310	w 105.080	/ · · · · · · · · · · · · · · · · · · ·	71
	M3e Date	Transp SQM or	Transp NELM	Seeing		1
		DX.		02	\	M
	10/5/22 Time	Instrument and m	agnification	Color		EN
	9112			all coloned	. /	
	1116	18" 4/14.2 C	NO 1241	are county		

A1 =	Tarana .	In	To a second	In the second		1
AL #	Name	Constellation	Vmag	Distance ly		
132	HD 214899		8.64	22,39		
	Star Type		Latitude	Longitude	\	
	MISE	Bookland, CO	40.31	M 108.08.	•	77
	Date	Transp SQM or	Transp NELM	Seeing		>
	10/5/21	OK		OK		1
	Time	Instrument and r	nagnification	Color		E
	9173	18- 2/14.2	Caso 124x	Red	. /	
AL#	Name	Constellation	Vmag 15.27	Distance ly	1	2
107	EQ Pag	Peg	12.21	20.42		
108	Star Type	Location	Latitude	Longitude	158	1
	MAC	Berthad, co	46.31*	w 105.08"		100
	Date	Transp SQM or		Seeing	1	25
	10/5/22	01		OK		E
	Time	Instrument and n		Color	107	
	9:27	18 " 8 /14 5	Caro 124x	Reddish		
AL #	Name HO 192310	Constellation	Vmag	Distance ly		
	4127722	Cap	5.72	28.73		
225	Star Type		Latitude	Longitude	/ .	
	KZ	Dertical, co		w103°55.7	/ . \	
	Date	Transp SQM or		Seeing		Ex 1
	10/19/22			1 6 V		
	Time	Instrument and m		Color Good	\ /	
	19:24	The second secon	N. C. Strategick Co.			
AL #	Name		Honon GAR	Distance ly	->-	
	Knesz 60		9,79			
34	Star Type		Latitude	Longitude		
	100000	BOSCOCKIII.			· . \	
	M3 Date	Dearton , CO Transp SQM or	Transa NELM	W\03°55.7′ Seeing		1
		7224			1	(.
	10/19/22 Time			Very Gest		3
	10000	Instrument and m		Vellow	. /	
AL #	19;32 Name	8" \$/6 New				
	THE STATE OF THE S		Vmag	Distance ly		
151	Hu Cas	Cas	5117	25.02		
10.1	Star Type	Lecation	Latitude	Longitude	/	
	0-5	Dertail, to	24,38.6.	w103° 55,7"	F	
	Date	Transp SQM or	Transp NELM	Seeing		EXT
	10/19/22	Very boud		Color, Good	/	6
	Time	Instrument and m	agnification	Color	1 /	N
	19:47	8 " @ 16 New	Jans Lid.	Yellow	/	

AL#	Name	Constellation	Vmag	Distance ly		
157	107 Psc	Psc	5,24	24,92 Longitude		
	Star Type	Location	Latitude		/	E
	KO	Deer Tril; co	39 ° 38 . 6'	w103°55.7'		NY
	Date	Transp SQM or	Transp NELM	Seeing	•	
	10/19/22	Very Good Instrument and m		Very Good		
	20103	8" F/L New Constellation	Aonian 64x	Orange		
AL#	Name +D 4628					
145	HR ZZZ	Psc	5.74	24.24	/	
17	Star Type		Latitude	Longitude	/	-
	K2.5	Deertail, 60	39 38.6	w103° 55171		Y F
	Date	Transp SQM or	Transp NELM	Seeing		Ne!
	10/19/22	Very Good		Very boal		
	Time	Instrument and m	agnification	Color		
		8" \$ / 6 New	Honian 64x	Red		
	Name 65867		Vmag	Distance ly		
233	FK Agr	Agr		29.01	/	
	Star Type		Latitude	Longitude		125163
	MZe	Deertrail, 10		w103°55.7'	*	
	Date	Transp SQM or		Seeing		NK
		Very Goo		Very bood	. /	1
	Time	Instrument and m		Color	/	E
	20131	8" \$ 16 Nen		Red		
AL#	Name HD 1660A HR 753		Vmag	Distance ly		
			5.83	23.57	/	
139	Star Type		Latitude	Longitude	\	-
	K3	Questrail, 10	39°38.6'	w 103° 55.7		NET
	Date	Transp SQM or	Transp NELM	Seeing		1
	10/19/22	Very Good	16 - 11	Very Good	/	
	Z0158	Instrument and m		Red		
AL #		8" F/6 Nen				
AL#	Name	Constellation	Vmag	Distance ly		
	HR 219314 Star Type	Agr	Latitude	Longitude		
	Star Type	Location	Latitude	Longitude	\	
	Date	Transp SQM or	Transp NELM	Seeing		
	Date	Talisp SQM Of	Trailed HEEM	bearing		N
	Time	Instrument and m	agnification	Color	1	1
	21:12	mod Sment and m	-9.1110011311	Red		E

	No		Newson	Distance ly		
AL#	Name	Constellation	Vmag		/ . `\	
86	BR PSC	Psc	8,99	(9,27		
240	Star Type	Location	Latitude	Longitude	\	-1
	MI	Dection CO	39 38.6	w 103° 55.7′		15
	Date	Transp SQM or	Transp NELM	Seeing	1	E
	10/19/22	Vieny Gov	1	Very Good	./	
	Time	Instrument and m	nagnification	Color		
	21120	8 F/6 New		Yallow		
AL#	Name Gx And	Constellation	Vmag	Distance ly		
1000000	Grownbridge 34	And	8.08	11.61	/ '	1 1 2
23	Star Type	Location	Latitude	Longitude	/	3 N
	MI	Dertall, Co	39° 38.6'	w103° 55.7'		6
	Date	Transp SQM or	Transp NELM	Seeing		E
	10/19/22	Very 6	-00=	Very Good		
		Very (		Color		
		8" F/6 Ne		Red		
AL#	Name (30+4) 195	Constellation	Vmag	Distance ly	1	
1939	HIP 4872	Cas	9.6	32.14		
3.84	Star Type	Location	Latitude	Longitude	/	N. JE
	MIS	Deer Tail, 10	39° 38.6'	w 103° 55.7'	-	1
	Date	Transp SQM or	Transp NELM	Seeing		
	10/19/22	Vens 60	od	Very Good	1 3	
	Time	Instrument and m		Color		
1	21:37	8"4/6 News	onion 64x	Red		
AL#	Name	Constellation	Vmag	Distance ly		
1000000	40 (65772	Ser	936	25.23		
163	#0 (45222 Star Type	Location	Latitude	Longitude	/	
	MO	Berthoud, co	40.31	w 105,080		€ €
	Date	Transp SQM or		Seeing		
	11/25/22	6002		Good		N
	Time	Instrument and m	agnification	Color	. /	
	17:45	18"4/14.2	Caro 118x	Red		
AL#	Name	Constellation	Vmag	Distance ly	1	
1650	BD+68 946 SAO 17568	Dra	9.17	14.83		1
44		Location	Latitude	Longitude	. \	N
	M3	Berthoul, Co	40.310	w105.080		1
	Date	Transp SQM or		Seeing		35
	11/25/22	Good		Good	1	/
1	Time	Instrument and m	agnification	Color	/	
	17460	18.5/14.5		Red		
	11/11/11	(6: 4)14.5	110 X	1.00		_

Page T-9 is skipped here because it was out of order in the blank forms ready to record observations.

It is now labeled page T-17.5

					-	1
AL#	Name 65 745	Constellation	Vmag	Distance ly		
	65 745	Sge	10.77	28.79		
227	HIP 93873 Star Type		Latitude	Longitude	1/	
		Berthoud, co	40.310	w105.08°		EK
	M2 Date	Transp SQM or	Transp NELM	Seeing	7 : 7	7
	The state of the s			Good	1	1
	11/25/22	Instrument and m		Color		N
	Time	The second of th		Reddish		
	17158	18 t/14.5	Caso 118x			
AL#	Name 014 922	DESCRIPTION OF THE PROPERTY.	Vmag	Distance ly		
	BB Cop	Cap	(2.01	26.02	.\	
101	Star Type		Latitude	Longitude	/	471
	M4.5	Berthad, co	40.310	w105.08°		1
	Date	Transp SQM or	Transp NELM	Seeing		7
	11/25/22	Gove		Cood		
	Time	Instrument and m		Color		EATHER PAR
	18:04	18"4/14.2		Reddish		
AT W	Name	Constellation		Distance ly		
224	HU DIL	Def		28.75		
	Star Type		Latitude	Longitude	\	
	M4.5	Berthoud, Co	40.31	~105,080		
	Date	Transp SQM or	Transp NELM	Seeing		~ N
	11/25/22	Very Go	601	Very hood		7
	Time	Instrument and m	agnification		1\ '/	=
	18110	18"F/14.2	can 499x	Pale White		
AL#	Name TYC 3980-		Vmag	Distance ly		
182	1081-1	Ceo	10.146	26.49		
1 184	Star Type	Cep	Latitude	Longitude		
	14.5	Berthoud, co		w105,080	\	E_
	M Z Date	Transp SQM or	Transp NELM	Seeing	, '5	7
		The second second		100 No.		N
	11 /25/22 Time	Instrument and m		Very Good		
Trans				E51304		
AL #		19" F/14.2C				
AL#	Name 6J 1245	Constellation	Vmag	Distance ly		
48	Star Type	Cyg	13.13	15.3		
	Star Type	Location	Latitude	Longitude	\	
	HS.5	Berthaud, co	40,310	w105.08°		
	Date	Transp SQM or	Transp NELM	Seeing		
	11/25/22	Vey 6	400	Very Good		ER
	Time	Instrument and m		Color		1
HI E	18:21	18" €/14.2 C	110 1714	Pale White		1/
	20/-	10 41415 0	LICX	18 CO WILL		

L# Name Constellation Vmag Distance ly  V374 Po 3.5 - 16.0 Z9.68  Star Type Location Latitude Longitude	1
46 V374 PO PCS 3.5-16.0 29.68	
	1
Star Type Location Latitude Longitude	
M3.5e Berthard, co 40.31" w 105.00	
Date Transp SQM or Transp NELM Seeing	
11/25/22 Very Good Very Good	/
Time Instrument and magnification Color	
18:25 18" \$/14:2 Casa 499 Pale White very faint	_
L# Name DD-DS 57   5 Constellation Vmag Distance ly	
16 HIP 109388 Agr 10:37 28:74 .	1
Star Type Location Latitude Longitude	1
M3.5 Berthood, LO 40,310 w105.08"	
Date Transp SQM or Transp NELM Seeing	
11/25/22 Usey Good Very Good .	/
Time Instrument and magnification Color	/
18:34 18 4/14.2 Caso 171x Red	
L# Name Constellation Vmag Distance ly	\
EZ Apr Agr 12.36	. \
Star Type Location Latitude Longitude	. \
45 Berthad, Co 40,31° W105,08°	
Date Transp SQM or Transp NELM Seeing	
11/25/22 Very Good Very Good	_ /
Time Instrument and magnification Color	
Time Instrument and magnification Color Red That Years and Years Tank	/
# Name Constellation Vmag Distance ly	
3 EV Les Lac 10.26 16.47 / .	1
Star Type Location Latitude Longitude	1
M4 Berthoud, co 40.31° w105.08°	1
Date Transp SQM or Transp NELM Seeing	11
	/
Time Instrument and magnification Color	/
18:42 18" \$/14.7 Caso 171x Red	
# Name Constellation Vmag Distance ly	\
1 IL Agr   Agr   10,19   15,23	. /
Star Type Location Latitude Longitude	1
M4 Berthand, co 40.310 w105080 .	
Date Transp SQM or Transp NELM Seeing	
11/25/22 Very Good Very Good	' /
Time Instrument and magnification Color	/
200	/
18148 18"E/14. Z Caso 171x Reddish	

					AND ALL DESCRIPTION OF THE PARTY OF THE PART	
AL#	Name 140 219134	Constellation	Vmag	Distance ly		
121	HR 8832	Cas	5.57	21,33		
1000	Star Type	Location	Latitude	Longitude	7/ \	
	K3	Berthoul, co	40.310	m 105,080		1
	Date	Transp SQM or	Transp NELM	Seeing	7	1 /3
	11/25/22	Very	Load	Very Good	. /	E
	Time	Instrument and n		Color	1 /	
	18155	18° 8/14.2	Cas 171x	Reddish		
AL#	Name H And		Vmag	Distance ly	-	
12	Ras 248	And	17.29	10.3		100
1.00	Star Type	Location	Latitude	Longitude	/	
	MS	Berthoud, co	4D,310	w 105,080	1	K
	Date	Transp SQM or	Transp NELM	Seeing		4
	11/25/22	Veus C		Very Good	\ / /	-
	Time	Instrument and m		Color Delewhite		
	19:01	18" 2/14 7	Caso 171x	A PARTY NAMED IN COLUMN TO A PARTY NAMED IN COLU		
AL#	Name G-158-50		Vmag	Distance ly		
	G 128.00		11.6	19.57		
94	HIP 1842 Star Type	1	Latitude	Longitude	/	
	Mil	Berthaul, co	14 C C C C C C C C C C C C C C C C C C C	w 105,080	/ , V	Ε
	M + Date	Transp SQM or	Transp NELM	Seeing		4
	11/25/22	Very		2000		10 marsh
	Time	Instrument and m	agnification	Color in	. /	V-
	19106	40.0	Caso 171x	Color White		
AL#	Name		Vmag	Distance ly	$\rightarrow$	
25/4	V547 Cas	Cas	10.33			
	Star Type	Location	Latitude	32.25 Longitude	/ \	
	MZ	Berthaud to		w105,080	/	-
	Date	Transp SQM or	Transp NELM	Seeing	, #	5
	11/25/22	Vey 0		Veen Good		1
	Time	Instrument and m.		Color	\ /	74
	19112	13"2/147	cas ITIX	Ded		
AL#	Name		Vmag	Distance ly		
285	V388 C.	Cas	13.21	32,16		
200	V 32% Cap Star Type		Latitude	Longitude		
	M5	Berthaud, 60	40,310	w 105,080		-
	Date		Transp NELM	Seeing		EK
	11/25/22	Very au	ATTENDED TO A TO			1
	Time	Instrument and ma	gnification	Color Cood		1/
	19 ( 18	18" 8/14.2		Red		
	A A I A A F	10 1/1412	LESSA TITE			

						1
AL#	Name	Constellation	Vmag	Distance ly		
29	yz at		12.07	12.12	/.	of the same of the
	Star Type	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NA	Latitude	Longitude	/	*N
	Mte	Berthoul, co	40'31,	w105.08°		4
	Date	Transp SQM or	Transp NELM	Seeing		7.6
	11/25/22	Very Gr		Very Good	. /	
	Time	Instrument and n	nagnification	Color While		
	19137	18" 8/14.2	Cass 171x	very faint		
AL#	Name	Constellation	Vmag	Distance ly		
9	B4 at	Cet	12.7	8.87	/	
	Star Type	The state of the s	Latitude	Longitude	/	J.N
	MS	Berthaud, co	40,310	w105,080		
	Date	Transp SQM or	Transp NELM	Seeing		75
	11/25/22	Very	Good	Very God	. /	
	Time	Instrument and n	nagnification	Color	· /	
	19:43	18" €/14.2	Cars 171x	very faint		
AL#	Name		Vmag	Distance ly		
10	CIV Cat	Cet	13.2	8.72		a.A.
	Star Type		Latitude	Longitude	. \	7
	M6	Berthand, 60	40.310	w105.080	uv	20
	Date	Transp SQM or	Transp NELM	Seeing		-
	11/25/22	Very la	4 00	Very Cost		
1 2	Time	Instrument and n	nagnification	Color White	EL /	
	19:50	18" 8/14.2	Caso 499x	contramely frist		
AL.#	Name	Constellation	Vmag	Distance ly		
43	T2 Avi		12.3	1457		
	Star Type	D0000000000000	Latitude	Longitude	. \	
	M45	Berthoud, Wo	40.310	w 105.080		N
	Date	Transp SQM or	Transp NELM	Seeing		
	11/25/22	Ven G	500	V-en Gwd	\ . /	Ž.
	Time	Instrument and n	nagnification	Color		
		18-4/14.2	Cass 499x	extreme of		
AL#	Name CD-3D 731	Constellation	Vmag	Distance ly		
759	HIP 9786	For	12,17	30.58		N
	Star Type	Location	Latitude	Longitude	, \	1
	MZIS	Berthard, LO	40.310	m 105.080	+ \	35
	Date		Transp NELM	Seeing		
	11/25/22	0-00	4	Cood	\ 1	
	Time	Instrument and m	nagnification	Color your fear		
	30108	15" 4)14,20	Casa 171x	Pole Wille		

AL#	Name	Constellation	Vmag	Distance ly	
	100-			and the same of	
	Star Type	Location	Latitude	Longitude	1
				Longitude	-
	Date	Transp SQM or	Transn NEI M	Seeing	
		-612	Transpirecim	Seeing	1
	Time	Instrument and	manification	Color	1
				Red	
AL#	20130 Name	Constellation	Vmag		
	1			Distance ly	
100	VX A⊢( Star Type	Location	10.54	25.04	/
		- 1000	Latitude	Longitude	/ ', ' \
	M3	acthoral, co	40.310	105,08°	
	7.75	Transp SQM or	Transp NELM	Seeing	
	11/25/22	6007		Good	
	Time	Instrument and n		Color	
	20138	18"8/14.2	Caso 171x	while	
AL#	Name 80-17 518	Constellation	Vmag 10.53	Distance ly	
130	PPM 710203	Eń	11.78	22.38	
	Star Type	Location	Latitude	Longitude	1/
	MZ.5	Berthad, W	40.310	m 105,080	
	Date	Transp SQM or	Transp NELM	Seeing	129 7
	11/25/22	6002	•	6000	\
	Time	Instrument and m	agnification	Color	(30
	20:45	18" 6/14.2	Caso 171x	Both White	
AL#	Name	Constellation	Vmag	Distance ly	
208	CD CL+	Cet	13.8	28.04	
	Star Type	Location	Latitude	Longitude	/:
	M4.5e	Barthord, Lo Transp SQM or	40.310	w105.080	\ \ \ \
	Date	Transp SQM or	Transp NELM	Seeing	. 5
	11/25/22	6007		4001	\ /
	Time	Instrument and m	agnification	Color	
	20150	18" 4/14.2	Caro ITIX	Orange	. /
AL#	Name	Constellation	Vmag	Distance ly	
347	Star Type	Cet	4.85	30,24	/
cinalit	Star Type	Location	Latitude	Longitude	
	65	Berthoud, Co Transp SQM or	40.310	w105.08"	
	Date	Transp SQM or	Transp NELM	Seeing	•
	11/25/22	6009		6001	
	11/25/22 Time 20155	Instrument and ma	gnification	G-05 1	
	20155	18"4/14,2		Yellow	

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AL# Name Constellation Vmag Distance ly  Star Type Location Latitude Longitude  KZ Berthond (a) 4D 31° W 105 08°  Date Transp SQM or Transp NELM Seeing  (1/25/22 Good TIX Yellow  AL# Name Constellation Vmag Distance ly  Star Type Location Latitude Longitude  KO Berthond (a) 4D 31° W 105 08°  Time Instrument and magnification Color  Time Instrument and magnification Color  STAR Sq. (a) 4D 31° W 105 08°  Time Instrument and magnification Color  Star Type Location Latitude Longitude  WMA D Berthond (a) 4D 31° W 105 08°  Time Instrument and magnification Color  Star Type Location Latitude Longitude  MAD Berthond (a) 4D 31° W 105 08°  Time Instrument and magnification Color  Star Type Location Latitude Longitude  MAD Berthond (a) 4D 31° W 105 08°  Time Instrument and magnification Color  Other Color (a) 4D 31° W 105 08°  Date Transp SQM or Transp NELM Seeing  COD Time Instrument and magnification Color  Other Color (a) 4D 31° W 105 08°  Date Transp SQM or Transp NELM Seeing  COD Time Instrument and magnification Color  Other Color (a) 4D 31° W 105 08°  Date Transp SQM or Transp NELM Seeing  COD Time Instrument and magnification Color  Other Color (a) 4D 31° W 105 08°  Date Transp SQM or Transp NELM Seeing  COD Time Instrument and magnification Color  Other Color (a) 4D 31° W 105 08°  Date Transp SQM or Transp NELM Seeing  COD Time Instrument and magnification Color  Other Color (a) 4D 31° W 105 08°  Date Transp SQM or Transp NELM Seeing  COD Time Instrument and magnification Color  Other Color (a) 4D 31° W 105 08°  Date Transp SQM or Transp NELM Seeing  COD Time Instrument and magnification Color  Other Color (a) 4D 31° W 105 08°  Date Transp SQM or Transp NELM Seeing  COD Time Instrument and Magnification Color (a) 4D 31° W 105 08°  Date Transp SQM or Transp NELM Seeing  COD Time Instrument and Magnification Color (a) 4D 31° W 105 08°  Date Transp SQM or Transp NELM Seeing  Date Transp SQM or Transp						
Star Type  Location  KZ  Berthoul (a)  Transp SQM or Transp NELM  Seeing  (1/25/22 (a)a)  Time  Instrument and magnification  ZO 157 R°C/14.2 Casa 171x  AL# Name  Constellation  Vmag  Distance ly  ZA 3  Star Type  Location  Latitude  Longitude  KO  Berthoul (a)  Transp SQM or Transp NELM  Seeing  (a)  Cool  Time  Instrument and magnification  Color  ZO 157 R°C/14.2 Casa 171x  AL# Name  Constellation  Vmag  Distance ly  Cool  Time  Instrument and magnification  Color  ZO 157 R°F/14.2 Casa 188x  Vellow  AL# Name  Constellation  Vmag  Distance ly  32.3  Star Type  Location  Latitude  Longitude  MD  Berthoul (b)  AD 32.3  Star Type  Location  Latitude  Longitude  MD  Berthoul (b)  AD 32.3  Star Type  Location  Latitude  Longitude  MD  Berthoul (b)  AD 32.3  Star Type  Location  Latitude  Longitude  MD  Berthoul (b)  AD 32.3  Star Type  Location  Latitude  Longitude  MD  Berthoul (b)  AD 32.3  Star Type  Location  Latitude  Longitude  MD  Berthoul (b)  Transp SQM or Transp NELM  Seeing  Good  Time  Instrument and magnification  Color  ZI 666  ZI 666  ZI 676	AL#	Name	Constellation	Vmag	Distance ly	
Date Transp SQM or Transp NELM Seeing    ILZS/ZZ   GOOD   GOOD	13	Epsilon Eri	low En En	3.73	10.5	/
Date Transp SQM or Transp NELM Seeing  (1/25/22 Cool Cool Cool Cool Cool Cool Cool Co		Star Type	SECOND SE	SECTION AND AND ADDRESS OF THE PARTY OF THE	CANADA CONTRACTOR	1/
Date Transp SQM or Transp NELM Seeing  II / 25 / 22		K2	2 Berthoul Co	40.310	w 105,08°	1
Time Instrument and magnification Color Vellow  AL# Name Constellation Vmag Distance ly  ZALA Rana Eri 3.54 ZALA  Star Type Location Latitude Longitude  KO Berthard to 40.31 LOS.DE  Date Transp SQM or Transp NELM Seeing  11/25/22 Constellation Vmag Distance ly  AL# Name Constellation Vmag Distance ly  Star Type Location Latitude Longitude  MD Berthard to 40.31 W15.080  Date Transp SQM or Transp NELM Seeing  11/25/22 Constellation Vmag Distance ly  Date Transp SQM or Transp NELM Seeing  11/25/22 Constellation Color  20.00 LOS.DE  Instrument and magnification Color  20.00 LOS.DE  Date Constellation Vmag Distance ly	1,291	Date	Transp SQM or	Transp NELM	Seeing	
AL# Name Constellation Vmag Distance ly  AL# Name Constellation Vmag Distance ly  Rana Er 3.54 Z9.63  Star Type Location Latitude Longitude  KO Berthand to 40.31 a 105.08 a  Date Transp SQM or Transp NELM Seeing  LIZS/ZZ Cood Cood  Time Instrument and magnification Color  ZO 159 18 114.7 Z Cood 118 N Yellow  AL# Name Constellation Vmag Distance ly  Star Type Location Latitude Longitude  MD Berthand to 40.31 a 105.08 a  Date Transp SQM or Transp NELM Seeing  LIZ5/ZZ Cood Cood  Time Instrument and magnification Color  Z(166 18 E/JH.2 Cood 171x Orange  AL# Name Constellation Vmag Distance ly		11/25/22	25/22 6002		Good	
AL# Name  Constellation  Rana  Constellation  Constellation  Constellation  Constellation  Constellation  Constellation  Constellation  Color  Constellation  Color  Constellation  Color  Constellation  Color  Col		Time	Instrument and m	agnification	Color	
AL# Name  Constellation  Rana  Constellation  Constellation  Constellation  Constellation  Constellation  Constellation  Constellation  Color  Constellation  Color  Constellation  Color  Constellation  Color  Col		20157	157 R"E/14.2	Caso 171x	Yellow	
Star Type  Location  KO  Berthold to 40.31° w 105.08°  Date  Transp SQM or Transp NELM  Seeing  Location  Littude  Longitude  Coo J  Time  Instrument and magnification  Color  ZOIS9  AL# Name  Constellation  Constellation  Latitude  Longitude  MD  Berthold to 40.31° w 105.08°  Date  Transp SQM or Transp NELM  Seeing  Location  Latitude  Longitude  MD  Berthold to 40.31° w 105.08°  Date  Transp SQM or Transp NELM  Coo J  Time  Instrument and magnification  Color  2(166)  Latitude  Longitude  Longitude  Longitude  Longitude  AD.31° w 105.08°  Date  Transp SQM or Transp NELM  Coo J  Time  Coo J  Time  Coo J  Time  Constellation  Color  Color  Distance ly  Distance ly	AL#	Name				
Date Transp SQM or Transp NELM Seeing    11/25/22   Cood   Cood	243	Rana	na Eri	3.54	29.63	
Date Transp SQM or Transp NELM Seeing    1   25   22	I COLUMN	Star Type	pe Location	Latitude	Longitude	/-
Time Instrument and magnification Color  ZO 159 R° F 114.2 Cass 118 A Yellow  AL # Name Constellation Vmag Distance ly  Both 232979 Carm 7.65 32.3  Star Type Location Latitude Longitude  MD Both AD 40.31° w 105.08°  Date Transp SQM or Transp NELM Seeing  II   25   22 Good Color  ZI 166 18 E   14.2 Cass 171 A Orange  AL # Name Constellation Vmag Distance ly		KO	10 Berthard 6	40.310	~ 105.08°	
Time Instrument and magnification Color  ZO159 R"F/14.2 Cass 1184 Yellow  AL# Name Constellation Vmag Distance ly  32.3  Star Type Location Latitude Longitude  MD Berthaul to 40.31° w 105.08°  Date Transp SQM or Transp NELM Seeing  II/25/22 Cood Cood  Time Instrument and magnification Color  21.66 REF/14.2 Cass 171x Orange  AL# Name Constellation Vmag Distance ly		Date	Transp SQM or	Transp NELM	Seeing	
Time Instrument and magnification Color  ZO159 R"F/14.2 Cass 1184 Yellow  AL# Name Constellation Vmag Distance ly  32.3  Star Type Location Latitude Longitude  MD Berthaul to 40.31° w 105.08°  Date Transp SQM or Transp NELM Seeing  II/25/22 Cood Cood  Time Instrument and magnification Color  21.66 REF/14.2 Cass 171x Orange  AL# Name Constellation Vmag Distance ly		11/25/22	25/22 6002		G001	\ /
AL# Name Constellation Vmag Distance ly  HO 232979 Carm 7.65 32.3  Star Type Location Latitude Longitude  MD Barthoud to 40.31° w 105.08°  Date Transp SQM or Transp NELM Seeing  11/25/22 Cood Cood  Time Instrument and magnification Color  21:66 18 E/14.2 Cons 171x Orange  AL# Name Constellation Vmag Distance ly		Time	Instrument and ma	agnification	Color	\ . /
Star Type Location Latitude Longitude  MD Berthaud, to 40.31° w 105.08°  Date Transp SQM or Transp NELM Seeing  11/25/22 Good Good  Time Instrument and magnification Color  2(166 18 2/14.2 Case 171x Orange  AL# Name Constellation Vmag Distance by		20159	59 18"4/14.2	Casa 118x	Yellow	
Star Type Location Latitude Longitude  MD Berthaul to 40.31° w 105.08°  Date Transp SQM or Transp NELM Seeing  11/25/22 Cood Cood  Time Instrument and magnification Color  21:66 18 E/14.2 Cond 171x Orange  AL# Name Constellation Vmag Distance by	AL#	Name	Constellation	Vmag	Distance ly	
Star Type Location Latitude Longitude  MD Berthaul to 40.31° w 105.08°  Date Transp SQM or Transp NELM Seeing  11/25/22 Cood Cood  Time Instrument and magnification Color  21:66 18 E/14.2 Cond 171x Orange  AL# Name Constellation Vmag Distance by	290	HO 232979	232979 Cam	8.65	32.3	/ \
Time Instrument and magnification Color  2(166 18 1/14.2 Cano 171x Orange  AL# Name Constellation Vmag Distance by		Star Type	De Location I	Latitude	Longitude	/
Time Instrument and magnification Color  2(166 18 1/14.2 Cano 171x Orange  AL# Name Constellation Vmag Distance by		MD	D Berthaud, co	40.310	w 105.080	
Time Instrument and magnification Color 2(166 18 14.2 Cons 171x Overga)  AL# Name Constellation Vmag Distance ly		Date	Transp SQM or	Transp NELM	Seeing	1
2(166 18 2)14.2 Cano 171x Orange  AL# Name Constellation Vmag Distance ly					Good	\ .
AL # Name Constellation Vmag Distance ly		Time		70	Color	\ /
Instance ly			180 180 14.21	caso IZIX	Ovange	
100 285948 Tall 995 2007	AL#	Name			Distance ly	
764 110 2301100 190	264	HD 285948 Star Type	185968 Tau	9.95	30.92	/ : \
- Longitude //	A STATE OF THE STA	CONTRACTOR OF THE PARTY.		17.00	1	/
MZ Berthaud (0 40.31° W 105.060			12 Berthand Co	40.310	m 102.060	· ·
Transp SQM or Transp NELM Seeing			Transp SQM or T	ransp NELM	Seeing	
11/25/22 Good Good			The second secon		Good 1	/
Time Instrument and magnification Color					Color	\ ' /
21:15 18"8/14.2 Caso 171x Orange			and of 11 from the contra		Orange	
AL # Name Constellation Vmag Distance ly	NAME OF TAXABLE PARTY.	and the same of th		mag	Distance ly	
60 Keid Eri 4.43 16.33			- 1 1		16.33	/ .
Star Type Location Latitude Longitude			C		- 1/	\
Date Transp SOM or Transp NELM Souline		K0.5	. S Berthand, co			
Date Transp SQM or Transp NELM Seeing			Transp SQM or Ti	ransp NELM S		
11/25/22 6001 6001					ALICE CONTRACTOR OF THE PARTY O	
Time Instrument and magnification Color					olor	. /
21:18 18" \$/1412 Cass 171x White		21.18	18" F/1412 C	us 171x	White	

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					variable and the second se	
AL#	Name	Constellation	Vmag	Distance ly		
170	Tabil	Or'	3,19	26.16	/	
		Location	Latitude	Longitude		-W
	FL	Berthad, co	4031	~105.08°		
	Date	Transp SQM or	Transp NELM	Seeing		E
	11/25/22	Goo	4	Cood		
	Time	Instrument and m	agnification	Color		
	21.22	18" Q/14, Z	Caso 17/1	Yellow		
AL#	Name	Constellation	Vmag	Distance ly		
231	HR 1614	EH	6.21	Z8.83	/	, N
-	HR 1614 Star Type			Longitude	/	1
	K3	Berthow, to	40.310	m 105.080		3
	Date	Transp SQM or	Transp NELIW	Seeing	1	
	11/25/22	Instrument and m	La	6001		
	Time	Instrument and m	agnification	Color	. /	
		18" E/14,2		Orange		
AL#	Name	Constellation		Distance ly		
195	HD 32450	Lep	8.32	27.26		
	Star Type	Location	Latitude	Longitude		4.9
	No	Borthad, Lo	40.310	W105.080		ZN
	Date	Transp SQM or	Transp NELM	Seeing		J.
	1)/25/22 Time	Poor	nagnification	Poor	\ '. /	
	Time	Instrument and m	agnification	Color		
	21133	18"8/14.2	Caso 171x	Red		
AL#	Name	Constellation	Vmag	Distance ly		
77	HD 36395	00	7.97	18.6		
	HD 36395 Star Type	Location	Latitude	Longitude		
	H1.5	Berthold, Co Transp SQM or	40.310	w105,080		#N
	Date	Transp SQM or	Transp NELM	Seeing		5
	11/25/22	Good		Good	( /	TE
	Time	Instrument and m	nagnification	Color		
	ZI:37	18" \$/14.Z	Caso 171x	Orange		
AL#	Name Comma Lep 6	Constellation	Vmag	Distance ly		
737	Gamma Cop	Lep	300	29.03	/.	
234	Star Type	Location	Latitude	Longitude	236	N
	F6.5	Berthaud, CO	40.310	w 105,08°		L.
	Date	Transp SQM or	Transp NELM	Seeing	•	>6
	11/25/22	Poor		Poor	237	
	Time	Instrument and m	nagnification	Coloringe		
	21:41	18" €/14.2	Cass MX	white		

			No. of the last of	Market and the second second		-
AL#	Name	Constellation	Vmag	Distance ly		
214	chi 1 on	000	4.4	2836		
	Star Type	Location	Latitude	Longitude	1	
	GD	Beyothout, Ca	40,310	w 105.08°	1	1
	Date	Transp SQM or	Transp NELM	Seeing		
	11/25/22	Go	01	Good		1
	Time	Instrument and r	nagnification	Color	1	
	21,46	18° £/14.2	Can 171x	Cream		
AL#	Name	Constellation	Vmag	Distance ly		1
78	NO 42281	Lop	8.13	18.78	/ .	
	Star Type	Location	Latitude	Longitude	/	
	MI	Berthand, Lo	40.310	w105.08"		
	Date	Transp SQM or	Transp NELM	Seeing		
	11/25/22	Por		Poor		
	Time	Instrument and m		Color	1	
	21153	The state of the state of	Cass 171x	Programme and the second	. /	
AL#	Name		Vmag	Distance ly		
34	Ross 614	Maria	11.07	(3,42		
	Star Type	Mon	Latitude	Longitude	/ \	
	M4.5	Borthaul, Co		w105.083	/	
	Date	Transp SQM or	Transp NELM	Seeing	. ~	
	11/25/22			Good	/	
	Time	Instrument and m	A process	Color	\ . /	
	22:01			Reddish		
AL#	Name	18 F/14.Z ( Constellation	Vmag	Distance ly	<del></del>	
24	GO And	And	11.06	11.61		
77	Star Type			Longitude		
	M3.Se	Berthoud, Co		w 105.08°	/ · \	
	Date	Transp SQM or	Transp NELM	Seeing		5
	12/8/22	Gand	30	Good	1	E <-
	Time	Instrument and m	The same of the sa	Color Desp		
	17:30	18" £114.2 (		Red		
AL#	Name			Distance ly		
100	HIP 4856	Cas	10,0	26.84	/ \	
189	Star Type			Longitude		
	M3e		40,310	m 105.08"		
	Date	Transp SQM or		Seeing		
. 3	12/8/22 Time	6002		Good		160
	Time				\ ' ' /	-
	Time	Instrument and ma	ignification	Color	\	

	waren I						
	AL#	Name Wolf 28	Constellation	Vmag	Distance ly		THE WORLD
	100	HIP 3829	Psc	12.37	14.07		F-12 THE
	39	Star Type	Location	Latitude	Longitude	/ - \	Car Marchael
		02	Berthad, co	40.31	w105,080		JN
	16	Date	Transp SQM or	Transp NELM	Seeing	*	1
	THE .	12/8/22	Gova		Good		TE TE
		Time	Instrument and r	nagnification		/	
	A Shir	17:43	18º4/14.2 C	ass 171x	Orange		STEEL STEEL
	AL#	Name	Constellation	Vmag	Distance ly		
	130	HD 199305	Cep	01	18,32		
	133	Star Type	Location	E . Co	Longitude	/	
		MIE	0 11 1 45		w105.08°	/	
		Date	Berthaud Co Transp SQM or	Transp NELM	Seeing		
	1000	1/9/23	DI		OK	\· /	
		Time	Instrument and n			/	4
	MA	17:57	19" \$/14.20	Section 1	Color	\ /	Z N
	AL#	Name	Constellation	Tass 171x	Distance ly		
		G 262-15	Cep		28.38		
	178	HIP 101180 Star Type	Location	Latitude	Longitude	/	
		MZIST	E82/8			/	
	DIN S	Date	Berthiud, (a) Transp SQM or		ω\05.08° Seeing		
		149/23	Good	TranspireLM	Good		1
		Time	Instrument and n	agnification	Color	\ .	
		18:02			THE PERSON NAMED IN		LA
	-AL#		18"414.Z @ Constellation	IVman	pransish		- N
	20	Name HD 239960	Cep	Vmag 9.79 A	Distance ly A		
15-9	> 35	DO GP	Location	Latitude	13.04 B	1	
A -	>34	Star Type	Location	Lautude	Longitude	/	
1901	1	M4 B	Transp SQM or	Tenuna MEL M	Carlle		KITCH THE L
		1/9/23	Guod	Transp NELM	Seeing		
MAN		Fifne		and the sta	Good	1	Z /2
F/14	/		Instrument and m	agriffication	Pale white	8 8 18	EN
100	A1 #	Name	Constallation	Maria	Orange A		
Sand.	AL#	Name #5 239960B	Constellation	Vmag	Distance ly		Car Viginia
. 30	10000000	DO Cep Star Type	Cep	11.4/	13.04		
	35	State of the state of	Location	Latitude _ 0	Longitude		
		MH	Berthad, Co	40.31	m 105.080	, *	ŧ
		Date	Transp SQM or	Transp NELM	Seeing		Here
P. 11	47 93	1/12/23	Good		bood	\ ./	N
110		Time	Instrument and m		Color		N
1000		17:58	18" F/14.Z	Caso 721x	Red		
L							

					the state of the s	
AL#	Name BD-18 359	Constellation	Vmag	Distance ly		
258		Cet	10.19	30.38		
0.00	HIP 9724 Star Type	Location	Latitude	Longitude	1/	
	M3	Berthild, 00	40.310	w 105.080	· · · · · · · · · · · · · · · · · · ·	
	Date	Transp SQM or	Transp NELM	Seeing		<
	1/12/23	Gord		Good		
	Time	Instrument and m	agnification	Color	1 /	
	18104	18"1/14.2	Caso 171x	Reddish		
AL#	Name		Vmag	Distance ly		
140	4016160	Cet	4.0	23.55		
	Star Type	Location	Latitude	Longitude	1/	
	K3	Berthad to	40.310	w105,080	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	-
	Date	Transp SQM or	Transp NELM	Seeing		P
	1/12/23	Gov	1	Good	\ . /	E
	Time	Instrument and m		Color		
	18120	18" 4/14.20	ass ITIX	Yellow_	./	
AL#	Name	Constellation		Distance ly		
62	DY Eri	Eri	11.17	16.34		
02	Star Type	Location	Latitude	Longitude	/ \	
	M4.5	Berthard, co	40,310	w105.080	, E . \	
	Date	Transp SQM or		Seeing	· N	-
	1/12/23	Good		boud	Keid	7
Part I	Time	Instrument and m	agnification	Color	1\ /	
	18131	18" 9/14.2 Ca	40 17/K	Pale white		
AL#	Name Ross 47		Vmag	Distance ly		
5555 ·	V1352 02	on	11.51	18.88		
80	Star Type	Location	Latitude	Longitude	/	
	MY	Berthoud, Lo	40.310	105.08°		
	Date	Transp SQM or	Transp NELM	Seeing		5
	1/12/23	Ge	ba	Good	\ , /	2
PART	Time	Instrument and n		Color	\ \ \ \ \	
The last	18143	18"8/14.2 4	171x	Red		
AL#		Constellation	Vmag	Distance ly		
237	Gamma Lap B	Lep	6.15	28,99	/	
	Ak Lop Star Type	Location	Latitude	Longitude		9
	K2.5	Berthoud, w	40.310	w105,080	. 4	1
War in	Date	Transp SQM or		Seeing		
The work	1/12/23	6k		DK	\ B /	
DE LOS	Time	Instrument and n	nagnification	Color		
		The second secon	Caso ITIX	Pale white		

Observed ?

AL#		Constellation	Vmag	Distance ly		7
36	Ross 64 Star Type	Mon	11,07	13.42		
GIN	Star Type	Location	Latitude	Longitude	$\dashv$ / \	
YA	M4.5	Berthard, 40	40,31	w105,085		V 1
la di	Date	Transp SQM or		Seeing	-	1 X
1.00	1/12/23	600	The state of the s	6002	1	年
	Time	Instrument and		Color	_\\	
1919	19115			1 (2000)		
AL#	Name	Constellation	Cass 17/4			the same
1000000		STATE OF THE PARTY	Vmag	Distance ly		
294	HO 260655 Star Type		9.59	32.59	/ ./	
		Location	Latitude	Longitude	7/	
100	MDe	Berthoud, co		w/05.080		
T.R.	Date	Transp SQM or		Seeing		
	1/12/23	660	7	Good	\	100
	Time	Instrument and n	nagnification	Color	1.	7
	19126	18" 4/14.2	Caro 721x	White	\ /	
AL#	Name		Vmag	Distance ly	1	
8	SINUS B	СМа	7 44	8.71	The state of the s	
-	Star Type	Location	Latitude	Longitude	The state of the s	
	DA 1.9	Berthow, Lo	A STATE OF THE STA	w105,08°		
	Date	Transp SQM or		Seeing	A William	*
	1/12/23	6000	Transpitte III		THE PROPERTY OF THE PARTY OF TH	1
72.33	Time	Instrument and m	annifi - di	6000		ii ii
	20106			Color		
AL#	A CONTRACTOR OF THE PARTY OF TH	Constellation	iass 1082x	while		
219	HD SD 281 B		Vmag 6.57	Distance ly Z8.51		
218	HO 5028 (A	Mon	10.05	28.5Z		
	Star Type KB.S		Latitude	Longitude	4 \	
HYSY	MZ	Berthood, co	40.310	m102.080	1. 1. 1 N	
	Date	Transp SQM or		Seeing		NE
1915	1/12/23	01		OK	\ ,	1
TO SE	Time	Instrument and m.		Color B-?	B /	TE.
110	20114	18/12/14/20	ua 171x	Reddish		
AL#	Name	Constellation		Distance ly		
75	HD 265866	Gem	10,62	18.21		
H	Star Type	Location		Longitude		
	M3	Berthous, co	40.310	w105.080	( · \	
	Date	Transp SQM or		Seeing		
	1/12/23	Goa		OK		1->W
ENTS!	Time	Instrument and ma		Color	\/	*
	20122	18"2/14.26		Reddish	1	E
		10 11 11 11 11	I /IX	ICEG D.N		

	Name	Constellation	Vmag	Distance ly		
30	Luytens Stop Star Type	CHI	9.87	12.34		1000
30	Star Type	Location	Latitude	Longitude	1/	
	M3.5	Berthood, Lo	40.313	W105,080	1	»M
	Date	Transp SQM or	Transp NELM	Seeing		
	1/12/23	Gos.	1	Good	\ '	Y E
	Time	Instrument and m		Color		National Control
	20141	1814/14.2	Caso 171x	Reddish		Section 1
AL#	Name	Constellation	Vmag	Distance ly		
101	QY Aur	Aur	12.05	19.73	/	
1112	Star Type		Latitude	Longitude		
	M5e	Berthoul, co	40.310	w105.080		
	Date	Transp SQM or		Seeing	. 5	
	1/12/23	6002		600		E N
	Time	Instrument and m	nagnification	Color		
	20134	18"4/14.20	Cass 171x	7		
AL#	Name	Constellation	Vmag	Distance ly	ASSISTED .	
20	Procyou B Star Type	CM:	10.92	11.46		
20	Star Type	Location	Latitude	Longitude		
	DQZ	Berthoud, LO	40.310	w105.080		
	Date	Transp SQM or	Transp NELM	Seeing		
	1/12/23	Goo	2	Good	. /	+
	Time	Instrument and m	agnification	Color		1 SE
	20157	18"E/14.2 C	ass 1082x	anite		N
AL#	Name	And the second second	Vmag	Distance ly		
95	∀⊋ CM` Star Type	CH:	11.23	19,52		
	Star Type	Location	Latitude	Longitude	/ . \	
	M4e	Buthard. co	40.310	m 105.080	6	
	Date	Transp SQM or	Transp NELM	Seeing		>1N
	1/12/23	6002	Service Control	6000	\ /	JE
	Time	Instrument and m	33.5	Color	\'''	5
	21103	18"4/14.20		Pale White		
			Vmag	Distance ly		
	GJ 283	CHI	13.06	29.31	/ .	
	Star Type	Location	Latitude	Longitude	/	-N
	DZA	Berthoud, co	40.310	m 105.080		-
1	Date	Transp SQM or		Seeing		NE.
8.13	1/12/23	Good		G007		
	Time	Instrument and m		Color		
IISUUT	21:07	18" 4/14,2	Can 1714	Reddish		

AL#	Name 6 117 - 47	Constellation	Vmag	Distance ly		7
223	HIP 38956	Lyn	13,91	28.85		
97 W	HIP 38956 Star Type	Location	Latitude	Longitude	1	
	M3.5	Berthoul, co	40,31	w 105,080	/	
	Date	Transp SQM or	Transp NELM	Seeing		
	1/12/23	Goo		Good	1 . 1	1
	Time	Instrument and r	nagnification	Color	-\/	E 11
	21115	18-6/14.2	the state of the s			
AL#	Name	Constellation	Vmag	Distance ly		
23%	G 113-20 HID 4050/ Star Type	Hya	100 CONTRACTOR   100 CO	29.14	/ /	
0.000	Star Type	Location	Latitude	Longitude	/.	
	MZ	Berthoulice	40.310	4105.08°		71
	Date	Transp SQM or		Seeing		1
	1/12/23	6000	1		\	4
	Time	Instrument and n		Color		-
	21:20	18"2/14.2	Caso 171x	Red	\ ' ' '	
AL#	Name		Vmag	Distance ly		
	DV Cuc	Cnc	14.9	11.67		
40	DX Cuc Star Type	Location	Latitude	Longitude	/	
	M 6.5	Berthoud, co	40.310	w 105,080	· \	215
	Date	Transp SQM or	Transp NELM	Seeing		400
	1/12/23	Goo	4	6001	/	7
	Time	Instrument and n		Color		
	21124	18"E/14.2	Com Inla	P. Hick	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
AL#	Name	Constellation	Vmag	Distance ly		
	RV Pop	Pup				
	Star Type		Latitude	Longitude	1	
	EAV!	Watkins, Co	34.70980	-104.60	. \	
10	Date	Transp SQM or		Seeing		- JH
	2/19/23	Poor	31 1911	Poor	/	3/2
	Time	Instrument and m		Color Vellow		
_	20119		whoman 122x	off wite		
AL#	Name G 222-11	Constellation	Vmag	Distance ly		
263	HIP 29377	Cam	10.4	30.84	/ : \	
	Star Type	Location	Latitude	Longitude	/	
	MZ	watkins, co	39.70980	-104.6"	. /	
	Date	Transp SQM or		Seeing		
	2/19/23	OK		OK	. /	=
	Time	Instrument and m	agnification	Color		N
	20138	8" \$ 14 Nour		Redlish	\ \	
		11.50	A CONTROL OF THE PARTY OF THE P	The second second		

AL#	Name	Constellation	Vmag	Distance ly		7
8.1	El Crc	Cnc	13.8	16.79		
64	Star Type	Location	Latitude	Longitude	7/ . \	\
	M7	Berthoud, co	40.310	105, 08° U		- Ench
	Date	Transp SQM or	Transp NELM	Seeing		1
	3/17/23	Very	600 2	Color Jan Ent		E
	Time	Instrument and m		Color Jam Fort	/	
	21159	18" 4/4.2 Co	05 171x	adds >	-	
AL#	Name   1921	Constellation	Vmag 7.7	Distance ly		1
110	H079210	UMa	7. 6	20,65	/	
	Star Type	Location	Latitude	Longitude	1/	
	MO	Berthoud, w	40.310	105.06° W	,	1
	Date	Transp SQM or	Transp NELM	Seeing		- 1
	3 /17/23 Time	Very	6002	Very Good	1 10 .	-
	Time	Instrument and m	agnification	Color		
	20155	18"4/14,2	Caso 1710	Both Yellan		
AL#	Name		Vmag	Distance ly		
an.s	HIP 46655	Luga Location	11.71	32.31		
380		Location	Latitude	Longitude	1/ . \	
	W3.5e	Berthoud, W	40.310	105.78°W	/ · \	= N
	Date	Transp SQM or	Transp NELM	Seeing		4.
	3/17/23	6002		Goo 2	N. 1	ZE
	Time	Instrument and m	agnification	Color	./	
	22:14	18"4/14.20	ass 1710	Color Dim Dole white		
AL#	Name	Constellation	Vmag	Distance ly	-	
795	HIP 46706 Star Type	Hya Location	10.07	32.64		
Sec. 1.00	Star Type	Location	Latitude	Longitude	1/	aN.
	M3	Burthoud, co	40.310	105.08 W	/ × \	(.
	Date	Transp SQM or	Transp NELM	Seeing		2
	3/17/23	Gas	4	Good	\	
	Time	Instrument and ma	gnification	Color	\" ' /	
	22122	18"2/14.2 Co Constellation	171x	Re 2		
AL#	Name	Constellation	Vmag	Distance ly		
262		Itya	10.91	30.76		
100000	Star Type	0.21		Longitude		H
	M2.5	Berllado	40.310	105.08°W		Last
	Date	Transp SQM or	Transp NELM	Seeing		
	3/17/23	Coud		Color	1	
	Time	Instrument and ma		TOTAL CONTRACTOR OF THE CONTRA		
	22128	18, 4/14,5	ars 171x	Palewhite		
-						

_						
AL#	Name	Constellation	Vmag	Distance ly		7
-1	HD 88250 Star Type	UMa	6.61	15.88		
54	Star Type	Location	Latitude	Longitude	-	
	K7.5e	Berthand, co	40.31	105,0800		V
	Date	Transp SQM or	Transp NELM	Seeing		
	3/17/23	Good		Good		53N
	Time	Instrument and r	nagnification	Calas	1	6
	22134		Casa 171x	Color Pod		
AL#	Name	Constellation	Vmag	Distance ly		1
	SAN DOWN	Sex		25.12		
160	SAO (374) Star Type		Latitude	Longitude	\	
	W1.5				/	911
	M+.5	Feethood (O	Transp NELM	105.080 Seeing	1	90
	F 0.040	Gas		Gos 4	\ '	Tr.
	3/17/23 Time	Instrument and n	agnification	Color	. /	
		A STATE OF THE PARTY OF THE PAR		Reddish		
AL#	Name	Constellation	Vmag	Distance ly		
			3.100 Z			
57	At Leo	Location	9.5Z Latitude	16.19	/	
				Longitude	\	100000
	M3 Date	Berthaud, co	40.31	105.080		1-20
	The state of the s	Transp SQM or		Seeing		,
	3/17/23 Time	Instrument and m	od	6009	/	
				Both Bla		
	22:52	18"8/14.20				
	Name	Constellation	Vmag	Distance ly		
123	HIP S3767 Star Type	Leo	10.62	22.0		
	3000		Latitude	Longitude		(Lan
	MZ5 Date	Berthoud, Wo	40.310	102.080m		J
	100	Transp SQM or	Transp NELM	Seeing		E
	3/17/23	Good		Good	\ /	
	Time	Instrument and m	agnification	Color		
	22158	18 º 4/14,2	cass 171x	Reddish		
AL#	Name Lalance 21185	Constellation	Vmag	Distance ly		
6	HD 95/30	OMa	7.52	8.3		
	Star Type	Location	Latitude	Longitude		
	MISE	Berthoul, 60	40.310	105.0800		
	Date	Transp SQM or	Transp NELM	Seeing		5 DAN
	3/17/23	Good		C00 7	\	ć
	Time	Instrument and m	A STATE OF THE STA	Color	\ '	
	23:04	18" () 14,2 Ca	171x	Drang		

-	n Promotor					
AL#	Name A12 5421)	Constellation	Vmag	Distance ly		
55	SAU 43 WA	UMa	8.77	15,99		
	Star Type	Location	Latitude	Longitude	-/	
	HI	P.U.		The state of the s	,	
	Date	Transp SQM o	40.51	185.08° LS Seeing		
	3/17/23					1
	Time	680		G054		4
	0.000000	Instrument and		Color		
AL#	23110	18"7/14.2	Cars 176x	Red		
AL.#	Name	Constellation	Vmag	Distance ly		
56	Star Type	Location	14,45	15,99		
		Location	Latitude	Longitude	$\dashv$	
	MS15	Berthovd, 60	41 210	105.08%	· ·	1
	Date	Transp SQM of	r Transp NELM	Seeing Seeing		15
1	3/17/23	600-		Gest	· Hintof	0
	Time	Instrument and		Color	1 1	
	Z3(20	18/4/14/20		Almust mat		
AL#	Name	Constellation	IVmaa 499x			
	XI Uma	UMa	4.77	Distance ly		
	Star Type	Location	3.79 Latitude	26.47		
216				Longitude	The V	
	F8.S	Benthoud Go Transp SQM or	40.310	105.080	1	
	A STATE OF THE STA			Seeing		
	3/17/23	Good		Good	217	el.
	Time	Instrument and r		Color		E
	23127	18"4/4,20	ars 4199x	Vellow		
AL#	Name	Constellation	Contracting to the contract of	Distance ly		
211	5Z DMO	UMa	9.3	29.57		
41	Star Type	Location	Latitude	Longitude		
	M45	Berthand, 60	40.310	105 800	· · · · · · · · · · · · · · · · · · ·	
	Date	Transp SQM or	Transp NELM	105,08°w Seeing		-
	3/17/23	Goix	1 6		\ E	Z J
	Time	Instrument and m	nagnification	Color	. / =	1
	23:45	18" \$14.2	Cars 171x	Pole White	. /	
AL#		Constellation	Vmag 1/3×	Distance ly		
25501	61 UMa	UMa	5134	31.22		
271	Star Type	Location	Latitude	Longitude		
	G-8	Berthad, 6				
	Date	Transp SQM or	Transp NELM	105.080W		-1
	3/17/23	Cox		Seeing G-004	/ -	7
-	Time	Instrument and m		The state of the s	\ /	N
	23/50			Color		
	43120	18"4/14.21	Cars 171x	Cream		

						1
AL#	Name	Constellation	Vmag	Distance ly		
	Star Type	Leo	10.61	51.87		
283	Star Type	Location	Latitude	Longitude	/	
	H2.5	Burling &	40.310	105,08%		
		Transp SQM or	Transp NELM	Seeing	1. 2. K	
	3/17/23	(40)	1	Good		Y.
	Time	Instrument and m	nagnification	Color		
	23156	16,5114,50	esa 17/v	Role While		
AL#	Name		Vmag	Distance ly		
770	4.057544	Cam	10.79	17.13		
10	4 P 57544 Star Type	Cam	Latitude	Longitude	1/	
	M4e	Bithout, a	40.310	105.0000		
	Date	Transp SQM or	Transp NELM	Seeing	1	[ 7E
	3/18/23	6000		Good		N
	Time	Instrument and m	nagnification	Color		0000
	00102	18"4/14.2 Co		Dim Reddish		
AL#	Name	Constellation	17.10	Distance ly		
100	HIP S1317	Sax	9.65	22.94		
(34	Star Type	Location	Latitude	Longitude	1/	
	MZ	Berthoub, co	40.310	105.08°W	1	41/
	Date	Transp SQM or	Transp NELM	Seeing		T
	3/18/23	OH	4	OK	\ /	¥
	Time	Instrument and m	nagnification	Color		
	00169	1812/14.20	Cars 17/2	Yellow		
AL#	Name	Constellation	Vmag	Distance ly		
133	EE LOO	leo	11.68	22.71	/ . \	
100	Star Type	Location	Latitude	Longitude	/ · \	-
	M4	Berthard, 60	40.31	105.08000		J.
	Date	Transp SQM or	Transp NELM	Seeing		1
	3/18/23	0	<	OK	\ /	N
	Time	Instrument and m		Color	( )	
	00113	18"8/14.2	Cers 171x	Faint Oronge		
AL#	Name	Constellation	Vmag	Distance ly		
221	HIP 57802	UMA	9.8	29.9	/ ,	
	Star Type	Location	Latitude	Longitude		
	M1.5	Berthoud, to	40.310	105.08%		E
	Date		Transp NELM	Seeing		K
	3/18/23	6)	4	OK	. /	¥
- 8	Time	Instrument and m	agnification	Color	1	N
	00127	18° €/41.2	Cass 17/4	Vellow		
			17.0X			

AL#	Name	Constellation	Vmag	Distance ly		No.
nola	CF UNA Star Type	OKR Location	6.45	29.9		
277	Star Type	Location	Latitude	Longitude		3
	K(	Bothoud, Co	40.319	105.08°W	1	1
	Date	Transp SQM or	Transp NELM	Seeing	. * +	71
	3/18/23	OK		OR		
	Time	Instrument and m	agnification	Color	\ \	
	00134	1814/21	Cass 171x	Cream		
AL#	Name Stor	Constellation	Vmag	Distance ly		
	Bernauli	Oph				
	Star Type	Location	Latitude	Longitude	1/	
		3RF				و
	Date	Transp SQM or		Seeing		1
	4/15/23	Good (	Company of the Compan	G-00-2	/	4
	Time	Instrument and m		Color		
	1154	20" 4/5 11	entonian 244k			
AL#	Name	Constellation	Vmag	Distance ly		11-11-11
5	Wolf 359		13.51	7.85		
	Star Type		Latitude	Longitude	/	
	MG	Destrail, CO	39°38′	w103°56'		1
	Date	Transp SQM or	Transp NELM	Seeing		54
	5/21/23	OK		OK		10
	Time	Instrument and m	nagnification	Color		
	9137	8"2/6 Neu	Honian Zosx	Reddish		
AL#	Name	Constellation	Vmag	Distance ly		
	FLVIE	V ir	11.15	11.0		
	Star Type			Longitude	/ /	-
15	M4	Deer Trail, LO	39°38'	w103°56'		00
	Date	Transp SQM or	Transp NELM	Seeing	· ←	N.
	5/21/23	the second secon	1	OK		
	Time	Instrument and m		Color		
	9152	8"9/6 New				
AL#	Name	Constellation	Vmag	Distance ly		
	GLVir		13.9	21.07		
114	Star Type	Location	Latitude	Longitude	\	CET
	M4.5e	Deer Trail, Co		m 1030 26		· W
	COST CONTRACTOR CONTRA	Transp SQM or		Seeing		FL.
	5/21/23	01	The second second	OK	\ ' '	
	Time	Instrument and m		Color		
	10:04	8 "E/6 Naish	unian 203x	Pale White		

		the same of the sa				
AL#	Name Ross 45	Constellation	Vmag	Distance ly		
	#D 65559 Star Type	Crv	11,27	Z8,93		
		Location	Latitude	Longitude	/	
	MZ	Quitail, 60	39 38'	w103°56"		-
	Date	Transp SQM or	Transp NELM	Seeing	1	EN
	5/21/23	ac		OK		V
	Time	Instrument and m	agnification	Color		14
	10113	8" 8/6 New		Yellow		
AL#	Name Wule 424		Vmag	Distance ly		
40	FLVIE	Vir	13.25	14.11		
	Star Type	Location	Latitude	Longitude	/	
	M5.5	Pear Trail, LO	39 38	w103°56'		a Full
	Date	Transp SQM or	Transp NELM	Seeing	• +	5-
	5/21/23	0	K	OK	/	N
	Time	Instrument and m	nagnification	Color		
	10:20	8" 4/6 Neust	onian 122x	Yellow		
AL#	Name 100 € 437	Constellation	Vmag	Distance ly		
177	HIP 62452	Vic	11.4	26.34		
100	Star Type		Latitude	Longitude	/	
	M3.5e	RearTrail, w	39°38'	w103°56'		
	Date	Transp SQM or	Transp NELM	Seeing		2
	5/21/23	Daw Setting	JH OK	OK	\	N.
	Time	Instrument and m	agnification	Color	\ /	
	10:32		Forlan 2034	Reddish		
	Name	Constellation	Vmag	Distance ly		
203	61 VIEB	Vir	10.73	27.82		
1988	Star Type	Location	Latitude	Longitude	\	
	G6	Deertrail, W	390381	w103°56'	· GI Vir	Ne
1	Date	Transp SQM or	Transp NELM	Seeing	- G. VIT	
	5/21/23 Time	OK		DK	\ 1	7.
		O K Instrument and m	agnification	Color	/	-
	10:46	8" \$16 New +	onian 203x	Reddish		
AL#	Name 80411 257/6	Constellation	Vmag	Distance ly		
155	PPM 129864	Vir	9.03	24.97		
	Star Type	Location	Latitude	Longitude		
	MIE	Deertrail, Co	390381	w103°56'		A
	Date		Transp NELM	Seeing		Eal
	5/21/23	OK		OK	\	
	Time	Instrument and m	Same and the same	Color		
	11:20	8"8/6 New	forcian 203x	Orange		

-	Tu-					
	Name	Constellation	Vmag	Distance ly		
148	Chave 13	CVn	10.7	27.62	/.	
	Star Type	Location	Latitude	Longitude	/	
	60	Deer Trail, co	39°38'	w103°56"		
	Date	Transp SQM or		Seeing		
	5/21/23	Herry Deu	U DK	DK		E1-7
	Time	Instrument and n	nagnification	Color	. /	70
	11128	8"4/6 New	onian Izzx	Reddish	Charge	
1001600000	Name	Constellation	Vmag	Distance ly		
251	Beta Com B	Com	10,1	29.98		
	Star Type	Location	Latitude	Longitude	/	
	60	Que Trail, Lo	39 " 38 "	w103°56'	1	4
	Date	Transp SQM or	Transp NELM	Seeing		1-313
	5/21/23	DK		DIL	Bata 1	-
	Time	Instrument and m		Color		73
	11:37	8" \$16 Newsto	x251 maine	dimRad		
AL#	Name	Constellation	Vmag	Distance ly		
244	HD 115953	CVn	8.54	27.82		
- 1	Star Type		Latitude	Longitude		
	67	Dear Trail, W	39 38	w103°56'	\	E
	Date	Transp SQM or		Seeing		1
	5/21/23		Heavy Dew	DIC		30
	Time	Instrument and m	agnification	Color	\	
	(1:44	8"8/4 New	tonian 122x	REd		
AL#	K027 1012	The second second	The state of the s	Distance ly		
		CVn	11.98	29.97		
	Star Type	Location	and the second s	Longitude		
	M3.5	Dear Trail, w	39°38'	~ 103°56'	6	
	Date	Transp SQM or	Transp NELM	Seeing		
	5/21/23		OK	OK	1	- 1/4
Carr	Time	Instrument and m	agnification	Color		
	11139	c +16 New	for an 122x	Reddish		
AL#	The state of the s		Vmag	Distance ly		
72	HIS 119850	Boo	8.5	17.71	/.	
	Star Type	(A)		Longitude	/.	
	M1.5	Deer Trail, Lo		~103°56'	-	
	Date	Transp SQM or	Transp NELM	Seeing		ECT
	5/21/23	014	4	OK	\	V
	Time	Instrument and ma		Color	\ /	17
	11156	8" \$/6 Newto	mian IZZX	Yellow		

		The second secon	Constellation	Vmag	Distance ly		
	106	HNLIB	Lib	11.32	20.38		
		The second second	Location	Latitude	Longitude	1/	
		M3.5	Durtrail, la	34°38'	w 103°56'		1
	1	Date	Transp SQM or		Seeing	1	Ne
		5/22/23	01	7	OK	. /	
		Time	Instrument and m	A STATE OF THE STA	Color		
		12105	8"E/6 Newto	mian 122x	Kellow		
100000000000000000000000000000000000000	AL#	n 12 6 5 10 6	Constellation	Vmag	Distance ly		
GZ 570B	818	HD 13/1976	A LIB	5.7Z	19.19		
GJ S70 A	81A	Star Type	Location	Latitude	Longitude	/ B A \	
82 /		M15	Durtail, w	39°38'	w103°56'	V V	Ne
0_		Date	Transp SQM or	Transp NELM	Seeing		1
		5/22/23	0		OK	\ /	10.72
		Time	Instrument and n	nagnification	Color		
		12:11	2" F/6 Nant	omian 127x	Orange		
	AL#	Name Ho Lib	Constellation	Vmag	Distance ly		
	109	Gliese S81	Lib	10.56	20.54		
		Star Type		Latitude	Longitude	- \	
		M3	Duertrail, LO		m103°56'		
		Date	Transp SQM or	Transp NELM	Seeing		The same of the same of
		5/22/23	Heavy Dew		OK		nJd-
		Time	Instrument and n		Color	/	
				Honian 122x			
	AL#	Name 202-48	Constellation	Vmag	Distance ly		
	115	HIP 80459	Dra	10.07	21.12	/ /	
		Star Type		Latitude	Longitude	\	
		MILS	Door Trall, co		~103°56'		
		Date	Transp SQM or		Seeing	/	1
		5/22/23		OK	oK		
		Time	Instrument and r		Color		
į.		12130	8" E/6 New	tonian 122x	Falennie		
	AL#	Name 12306 004	Constellation	Vmag	Distance ly		
4	38	Wolf 1061	Oph	10.07	Longitude		
	1	Star Type	Location	Latitude	w103°56'	/	30
		M3	DescTrail (6)	Transp NELM	Seeing		+
		5/22/23	O R	Transpirent	DK	/	-
2011		Time	Instrument and r	magnification	Color		
The state of the s		12:49	8'8/6 New to	Manager Committee Co	Orangish		
		16117	0 4/3/100	1000	01000		

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				and the same of		
AL#	Name HD 156024	Constellation	Vmag G. 34	Distance ly		
1168		Oph	9.02	21.17	/ ' \	-
116A	Star Type		Latitude	Longitude		. *
	нзе	Deer Trail, LO	37 0 38	w103°56'	A \	NO-
	Date	Transp SQM or		Seeing	. *	
	5/22/23	OK		OK	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	
	Time	Instrument and m	agnification	Color	( )	
	12:57	918/1 Na 4	onian izza	Both is h		
AL#	Name		Vmag	Distance ly		
100	CAT-1	Cen	0.01	4.39		
2	Star Type		\ \ 53 Latitude	Longitude		J/V
3	GZ			The second secon	1 2 . \	1
	KI	Coona, New Australia	31-17-5	149°17'E	**	≥8
	Date	Transp SQM or	Transp NELM	Seeing	/	
	4/1/16	Good		Good		
	Time	Instrument and m	nagnification	Color	\ .' /	
	8133	16" D/4 News		Buth Yellow		
AL#	Name B, F, E	Constellation		Distance ly		
	X: 800	Boo	7.LS E	22.0		200
	Star Type		Latitude	Longitude		6 7
	KS	Quer Trail, Co	39 0 28 '	w103°56'	/	1
1	Date	Transp SQM or	Transp NELM	Seeing	J' -E	
	7/10/23	Com	6004	Good	(6	
1	Time	Instrument and m		Color	\ ~ P	
	9:24	The state of the s	roman 122x	All Orange		
AL#	Name COE		Vmag	Distance ly	<del></del>	
-	X Boo	Salatananan				
	Star Type	Location	Latitude	Longitude		36, 3
	Star Type	Location	Latitude	Longitude	\	1
						64
	Date	Transp SQM or	Transp NELM	Seeing	(	1
		- 6		1	. /	
	Time	Instrument and n	nagnification	Color	1	
/	The second		10	Vellow		
AL#	Name 🖹	Constellation	Vmag	Distance ly		
	SZUMO	UMa	10.7	2.57	1 . EB	
	Star Type	Location	Latitude	Longitude	/	
240	MI	Doer Trail Co	39 32	w 103°56'	A STATE OF THE STA	N/E
	Date	Transp SQM or	Transp NELM	Seeing		
	7/10/23	Goo		Good		4
	Time	Instrument and n		Color	/	E.
	9:53					
	6600	6 +14 News	entime 122x	120 4m 100 9-510 1		J

						7
AL#	Name B		Vmag	Distance ly		
	CE BOD	Boo	10.15	32.43		
291	Star Type		Latitude	Longitude	/	\
	MI	Dartail, co	39 38	m103°56'		1
	Date	Transp SQM or	Transp NELM	Seeing		1 F
	7/10/23	6000		Good		1
	Time	Instrument and m	agnification	Color		
	10101	8" P/6 New	touran 120k	Yellow		
AL#	Name	Constellation	Vmag	Distance ly		
200	HIP TWAS	4.6	11.86	31.4		
on I.C	Star Type	Location	Latitude	Longitude	1/	
	M3	Deer Trail, CO	39038'	103°54'		EXT
	Date	Transp SQM or		Seeing		- W
	7/10/23	6001		Green	/	7
	Time	Instrument and m	agnification	Color		
	10106	8°P/L Newto	mran 122v	Rodligh		
	Name	Constellation	Vmag	Distance ly		1
11.21	HIP 80346	Her	15,24	25.57	/	
( 90*1	Star Type	Location	Latitude	Longitude	1/	
	113c	Dec + Trall, Co.	39,32,	w 103°56'	1	1
	Date	Transp SQM or	Transp NELM	Seeing	7	2.
	7/10/23	6-00	_	Good		2
	Time	Instrument and magnification		Coloronia white		
	10518	2"16 New	tonian 1224	Vey Dint		
AL#	Name B.C.E		Vmag 9, 02 8	Distance ly		
115	HD 152751	Opsia	9,52€	C 21.19	/ A	12
117	Star Type	Location	Latitude	Longitude	1 6 8	
550 8/1	6,12 M3e C M35	DeerTall, 60	39°38'	w1030 56'	1.5	E.
	Date	Transp SQM or	Transp NELM	Seeing	1 2	200
	7/10/23	6001		Good	1	
	Time	Instrument and m	agnification	Color	\ " /	
	10126	8 . 8/6 News	eminer 122k	Yellow		
AL#	Name B D	Constellation	Vmag 5,03 B	Distance ly		
92	360PH	Oph	6.340	19.41 0		1
93	Star Type	Location	Latitude	Longitude		100
	KS 0	Dur Trail, 45 Transp SQM or	39,38,	w103°56'	8-1.4	4
	Date	Transp SQM or	Transp NELM	Seeing		
	7/10/23	6001		6004	/	
	Time	Instrument and m		Color All	0 .	
	10138	9 016 Now	honomi 122x	Vellow		

A1 #	lev-	Constant and an	Vmag	Distance ly		1
AL#	Name	Constellation				
61	HD 157681	oph	7.54	25.15		
	Star Type		Latitude	Longitude	/	
	K7	Durtail, to	39 38	P103,27		1
	Date	Transp SQM or	Transp NELM	Seeing		
	7/10/23	Cond		6000		1
	Time	Instrument and n	nagnification	Color	1	
	10143	8 °R/LNewHo	min 122x	Red		
AL#	Name	Constellation	Vmag	Distance ly		
192	Mu Her B	Her	9.78	27.19		
1 (100	Star Type		Latitude	Longitude	7/	
	M3.5	Dertrail, Lo	390381	W103°56'	1	1
	Date	Transp SQM or	Transp NELM	Seeing		1 7
	7/10/23	600	4	Good	B	
	Time	Instrument and n		Color		
	10149	8 T/L Newto	m 1am 177v	white		
AL#	Name		Vmag	Distance ly		
11	VIZIL SAF	Sar	15.43	9.7		
	Star Type	Location	Latitude	Longitude	1/	
	M3.5e	Durtrail, Lo		U103'54'	/ '	
	Date	Transp SQM or	Transp NELM	Seeing		A
	7/10/23	600		6000		3
	Time	Instrument and magnification		Color		14
	10157	8" 4/6 Newtonian (22x		Red	' /	
AL#		Constellation		Distance ly		
	X. R D	Boo	11.73	22.0	0	
120	Star Type	Location	Latitude	Longitude	/ / \	
	K4Ve	Jackson Lake SP	A second second	w104.1°	/ / /	ELT
	Date	Transp SQM or		Seeing		V
	7/13/23	600	7	Good	· F = //	~
		Instrument and m		Color	1	
	10103	8 " £ / 6 Nen	Amian 122x	Reddish	F /	
AL#		Constellation	Vmag	Distance ly		
	XI BOD C	Boo	13,83	22.0		
125	Vi Boo ← Star Type	1 Santan	Total Control of the	Longitude	/	-
		Rockey Munto	40.370	w105.610		En ?
	Date	Transp SQM or	Transp NELM	Seeing	*	t.
	7/21/23	Grown		Good	1 1	
	Time	Instrument and n	nagnification	Color	\ c . /	
	11102	8" \$16 Neu		Pale White		

## Stars of the Solar Neighborhood Observation Log

THE RESIDENCE OF THE PARTY OF T

AL#	Name	Constellation	Vmag	Distance ly	-
	V ZZISOPI	Oph	6.34	19.41	
93	Star Type	Location	Latitude	Longitude	- 36 Oph
	K5	RMNP	40.370	w/05.610	/
	Date	Transp SQM	or Transp NELM	Seeing	-
	7/21/23	Cos		Cosl	1
	Time	Instrument and	d magnification	Color	
	11:20	The second second second	Annian (ZZ)	The second secon	
AL#	Name	Constellation	Vmag	Distance ly	
	Star Type	Location	Latitude	Longitude	-/
					/
	Date	Transp SQM o	or Transp NELM	Seeing	
					1
	Time	Instrument and	magnification	Color	
AL#	Name	Constellation	Vmag	Distance ly	
	Star Type	Location	Latitude	Longitude	/
	Date				
	Date	Transp SQM o	r Transp NELM	Seeing	
	Time				
		Instrument and	magnification	Color	
AL#	Name	Constellation	Vmag	Distance to	
			Tilling	Distance ly	
	Star Type	Location	Latitude	Longitude	/
				Longitude	
	Date	Transp SQM or	Transp NELM	Seeing	
	Time	Instrument and	magnification	Color	\
L#	Name	Constellation	Vmag	Distance ly	
4-1	Star Type	Location	Latitude	Longitude	\
	8				
	Date	Transp SQM or	Transp NELM	Seeing	
	Time	Instrument and n			/
	F 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	instrument and n	on many life and the last	Color	1

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