Winchite (020) 138 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[1	0	0]	(0	2	0)	(0	0	1)	9.016	5.119	1.76	90.0	75.5
[1	0	1]	(0	2	0)	(1	1	-1)	9.016	4.882	1.85	74.3	73.6
[1	0	0]	(0	2	0)	(0	2	1)	9.016	4.451	2.03	60.4	75.5
[1	0	2]	(0	2	0)	(2	0	-1)	9.016	4.031	2.24	90.0	49.7
[1	0	-1]	(0	2	0)	(1	1	1)	9.016	4.000	2.25	77.2	50.9
[1	0	1]	(0	2	0)	(-1	-3	1)	9.016	3.876	2.33	49.8	73.6
[1	0	2]	(0	2	0)	(2	2	-1)	9.016	3.680	2.45	65.9	49.7
[1	0	-1]	(0	2	0)	(1	3	1)	9.016	3.388	2.66	55.7	50.9
[1	0	0]	(0	2	0)	(0	4	-1)	9.016	3.383	2.67	41.4	75.5
[1	0	2]	(0	2	0)	(2	4	-1)	9.016	3.005	3.00	48.2	49.7
[1	0	1]	(0	2	0)	(-1	-5	1)	9.016	2.939	3.07	35.4	73.6
[1	0	-1]	(0	2	0)	(1	5	1)	9.016	2.708	3.33	41.3	50.9
[2	0	1]	(0	2	0)	(1	1	-2)	9.016	2.616	3.45	81.7	89.0
[1	0	0]	(0	2	0)	(0	6	1)	9.016	2.592	3.48	30.4	75.5
[1	0	1]	(0	2	0)	(2	0	-2)	9.016	2.536	3.56	90.0	73.6
[1	0	0]	(0	2	0)	(0	2	2)	9.016	2.462	3.66	74.2	75.5
[1	0	2]	(0	2	0)	(-2	-6	1)	9.016	2.409	3.74	36.7	49.7
[2	0	-1]	(0	2	0)	(1	1	2)	9.016	2.311	3.90	82.6	61.8
[1	0	1]	(0	2	0)	(-1	-7	1)	9.016	2.297	3.93	26.9	73.6
[2	0	3]	(0	2	0)	(3	1	-2)	9.016	2.277	3.96	82.7	60.2
[1	0	1]	(0	2	0)	(2	4	-2)	9.016	2.210	4.08	60.6	73.6
[1	0	-1]	(0	2	0)	(1	7	1)	9.016	2.181	4.13	32.1	50.9
[2	0	-1]	(0	2	0)	(1	3	2)	9.016	2.172	4.15	68.8	61.8
[2	0	3]	(0	2	0)	(-3	-3	2)	9.016	2.144	4.21	69.1	60.2
[2	0	1]	(0	2	0)	(1	5	-2)	9.016	2.132	4.23	53.8	89.0
[1	0	-1]	(0	2	0)	(2	0	2)	9.016	2.051	4.40	90.0	50.9
[1	0	2]	(0	2	0)	(-2	8	1)	9.016	1.967	4.58	29.2	49.7
[1	0	2]	(0	2	0)	(4	2	-2)	9.016	1.967	4.58	77.4	49.7
[2	0	-1]	(0	2	0)	(1	5	2)	9.016	1.957	4.61	57.1	61.8
[1	0	0]	(0	2	0)	(0	6	2)	9.016	1.949	4.63	49.6	75.5
[2	0	3]	(0	2	0)	(3	5	-2)	9.016	1.936	4.66	57.5	60.2
[1	0	-1]	(0	2	0)	(2	4	2)	9.016	1.867	4.83	65.5	50.9
[1	0	1]	(0	2	0)	(1	9	-1)	9.016	1.863	4.84	21.6	73.6
[2	0	1]	(0	2	0)	(-1	-7	2)	9.016	1.845	4.89	44.3	89.0
[1	0	-1]	(0	2	0)	(1	9	1)	9.016	1.800	5.01	26.0	50.9
[3	0	2]	(0	2	0)	(2	0	-3)	9.016	1.752	5.15	90.0	83.7
[3	0	1]	(0	2	0)	(1	-1	-3)	9.016	1.749	5.15	84.4	85.7
[2	0	-1]	(0	2	0)	(-1	7	-2)	9.016	1.728	5.22	47.9	61.8
[3	0	2]	(0	2	0)	(2	2	-3)	9.016	1.720	5.24	79.0	83.7
[2	0	3]	(0	2	0)	(-3	-7	2)	9.016	1.714	5.26	48.3	60.2
[1	0	1]	(0	2	0)	(-2	-8	2)	9.016	1.685	5.35	41.6	73.6
[1	0	1]	(0	2	0)	(3	1	-3)	9.016	1.683	5.36	84.6	73.6
[1	0	0]	(0	2	0)	(0	2	3)	9.016	1.676	5.38	79.3	75.5
[1	0	2]	(0	2	0)	(4	6	-2)	9.016	1.674	5.39	56.2	49.7
[3	0	2]	(0	2	0)	(-2	-4	3)	9.016	1.633	5.52	68.8	83.7
[3	0	-1]	(0	2	0)	(1	1	3)	9.016	1.605	5.62	84.9	66.1
[2	0	1]	(0	2	0)	(1	9	-2)	9.016	1.597	5.65	37.2	89.0
[1	0	0]	(0	2	0)	(0	4	3)	9.016	1.596	5.65	69.3	75.5

Winchite (020) 138 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[3	0	4]	(0	2	0)	(4	0	-3)	9.016	1.589	5.67	90.0	64.4
[3	0	1]	(0	2	0)	(1	-5	-3)	9.016	1.580	5.71	64.0	85.7
[3	0	4]	(0	2	0)	(-4	2	3)	9.016	1.565	5.76	80.0	64.4
[3	0	-1]	(0	2	0)	(1	3	3)	9.016	1.556	5.79	75.0	66.1
[1	0	1]	(0	2	0)	(-3	-5	3)	9.016	1.531	5.89	64.9	73.6
[2	0	-1]	(0	2	0)	(1	9	2)	9.016	1.519	5.94	40.7	61.8
[1	0	-1]	(0	2	0)	(2	8	2)	9.016	1.517	5.94	47.7	50.9
[3	0	2]	(0	2	0)	(2	6	-3)	9.016	1.514	5.96	59.8	83.7
[2	0	3]	(0	2	0)	(3	9	-2)	9.016	1.509	5.97	41.1	60.2
[3	0	4]	(0	2	0)	(4	4	-3)	9.016	1.499	6.02	70.6	64.4
[3	0	-2]	(0	2	0)	(2	0	3)	9.016	1.492	6.04	90.0	57.8
[3	0	-2]	(0	2	0)	(-2	2	-3)	9.016	1.472	6.12	80.6	57.8
[3	0	-1]	(0	2	0)	(1	5	3)	9.016	1.471	6.13	65.9	66.1
[3	0	5]	(0	2	0)	(-5	-1	3)	9.016	1.463	6.16	85.3	56.4
[3	0	1]	(0	2	0)	(1	7	-3)	9.016	1.452	6.21	55.7	85.7
[3	0	5]	(0	2	0)	(5	3	-3)	9.016	1.426	6.32	76.3	56.4
[3	0	-2]	(0	2	0)	(2	4	3)	9.016	1.417	6.36	71.7	57.8
[1	0	1]	(0	2	0)	(-3	-7	3)	9.016	1.413	6.38	56.7	73.6
[3	0	4]	(0	2	0)	(4	6	-3)	9.016	1.405	6.42	62.1	64.4
[3	0	2]	(0	2	0)	(-2	-8	3)	9.016	1.383	6.52	52.1	83.7
[3	0	-1]	(0	2	0)	(1	7	3)	9.016	1.366	6.60	58.0	66.1
[1	0	-1]	(0	2	0)	(3	1	3)	9.016	1.363	6.61	85.7	50.9
[1	0	0]	(0	2	0)	(0	8	3)	9.016	1.360	6.63	52.9	75.5
[3	0	5]	(0	2	0)	(-5	-5	3)	9.016	1.360	6.63	67.8	56.4
[1	0	2]	(0	2	0)	(6	2	-3)	9.016	1.329	6.78	81.5	49.7
[2	0	1]	(0	2	0)	(2	0	-4)	9.016	1.322	6.82	90.0	89.0
[3	0	1]	(0	2	0)	(1	-9	-3)	9.016	1.321	6.82	48.7	85.7
[4	0	1]	(0	2	0)	(-1	1	4)	9.016	1.309	6.89	85.8	83.1
[4	0	3]	(0	2	0)	(3	1	-4)	9.016	1.303	6.92	85.9	81.1
[3	0	4]	(0	2	0)	(-4	-8	3)	9.016	1.299	6.94	54.8	64.4
[1	0	2]	(0	2	0)	(6	4	-3)	9.016	1.288	7.00	73.4	49.7
[4	0	1]	(0	2	0)	(1	3	-4)	9.016	1.282	7.03	77.7	83.1
[1	0	-1]	(0	2	0)	(3	-5	3)	9.016	1.278	7.05	69.2	50.9
[4	0	3]	(0	2	0)	(-3	3	4)	9.016	1.276	7.06	77.7	81.1
[3	0	5]	(0	2	0)	(5	7	-3)	9.016	1.275	7.07	60.3	56.4
[2	0	1]	(0	2	0)	(-2	-4	4)	9.016	1.268	7.11	73.7	89.0
[1	0	1]	(0	2	0)	(-4	2	4)	9.016	1.256	7.18	82.0	73.6
[3	0	-1]	(0	2	0)	(1	9	3)	9.016	1.255	7.18	51.2	66.1
[3	0	-4]	(0	2	0)	(4	0	3)	9.016	1.247	7.23	90.0	45.0
[3	0	-2]	(0	2	0)	(2	-8	3)	9.016	1.244	7.25	56.5	57.8
[3	0	-4]	(0	2	0)	(-4	2	-3)	9.016	1.236	7.30	82.1	45.0
[4	0	1]	(0	2	0)	(1	5	-4)	9.016	1.233	7.31	70.0	83.1
[4	0	5]	(0	2	0)	(5	1	-4)	9.016	1.210	7.45	86.2	66.6
[4	0	-1]	(0	2	0)	(1	3	4)	9.016	1.203	7.49	78.5	68.3
[3	0	-4]	(0	2	0)	(4	4	3)	9.016	1.202	7.50	74.5	45.0
[4	0	5]	(0	2	0)	(5	3	-4)	9.016	1.189	7.58	78.6	66.6
[3	0	5]	(0	2	0)	(-5	-9	3)	9.016	1.184	7.61	53.8	56.4
[1	0	0]	(0	2	0)	(0	6	4)	9.016	1.177	7.66	66.9	75.5

Winchite (020) 138 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** ***α*** **90°** ***β*** **104.54°** ***γ*** **90°**

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[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[4	0	1]	(0	2	0)	(-1	-7	4)	9.016	1.169	7.71	63.0	83.1
[1	0	1]	(0	2	0)	(4	6	-4)	9.016	1.168	7.72	67.1	73.6
[4	0	3]	(0	2	0)	(3	7	-4)	9.016	1.165	7.74	63.1	81.1
[4	0	-1]	(0	2	0)	(1	-5	4)	9.016	1.163	7.75	71.2	68.3
[1	0	2]	(0	2	0)	(6	8	-3)	9.016	1.154	7.81	59.2	49.7
[3	0	-4]	(0	2	0)	(4	6	3)	9.016	1.152	7.83	67.5	45.0
[4	0	5]	(0	2	0)	(5	5	-4)	9.016	1.150	7.84	71.4	66.6
[2	0	3]	(0	2	0)	(6	0	-4)	9.016	1.147	7.86	90.0	60.2
[2	0	1]	(0	2	0)	(2	-8	-4)	9.016	1.140	7.91	59.6	89.0
[2	0	-1]	(0	2	0)	(2	4	4)	9.016	1.128	7.99	75.5	61.8
[4	0	-1]	(0	2	0)	(1	7	4)	9.016	1.109	8.13	64.5	68.3
[4	0	1]	(0	2	0)	(1	9	-4)	9.016	1.098	8.21	56.8	83.1
[4	0	5]	(0	2	0)	(5	7	-4)	9.016	1.097	8.22	64.8	66.6
[4	0	3]	(0	2	0)	(3	9	-4)	9.016	1.094	8.24	56.9	81.1
[4	0	-3]	(0	2	0)	(3	1	4)	9.016	1.094	8.24	86.5	56.0
[3	0	-4]	(0	2	0)	(4	8	3)	9.016	1.091	8.26	61.0	45.0
[4	0	7]	(0	2	0)	(7	1	-4)	9.016	1.076	8.38	86.6	54.6
[4	0	7]	(0	2	0)	(7	3	-4)	9.016	1.061	8.50	79.8	54.6
[5	0	2]	(0	2	0)	(2	0	-5)	9.016	1.057	8.53	90.0	87.8
[5	0	3]	(0	2	0)	(3	-1	-5)	9.016	1.053	8.56	86.7	85.8
[5	0	2]	(0	2	0)	(-2	2	5)	9.016	1.050	8.59	83.3	87.8
[4	0	-3]	(0	2	0)	(3	5	4)	9.016	1.048	8.60	73.1	56.0
[4	0	-1]	(0	2	0)	(1	9	4)	9.016	1.047	8.61	58.5	68.3
[5	0	1]	(0	2	0)	(1	1	-5)	9.016	1.044	8.63	86.7	81.6
[5	0	4]	(0	2	0)	(4	0	-5)	9.016	1.040	8.67	90.0	79.6
[5	0	3]	(0	2	0)	(3	-3	-5)	9.016	1.039	8.68	80.0	85.8
[4	0	5]	(0	2	0)	(-5	9	4)	9.016	1.038	8.69	58.8	66.6
[2	0	-1]	(0	2	0)	(2	8	4)	9.016	1.035	8.71	62.7	61.8
[5	0	4]	(0	2	0)	(-4	-2	5)	9.016	1.033	8.73	83.4	79.6
[4	0	7]	(0	2	0)	(7	5	-4)	9.016	1.032	8.73	73.4	54.6
[5	0	1]	(0	2	0)	(-1	-3	5)	9.016	1.031	8.75	80.1	81.6
[5	0	2]	(0	2	0)	(2	4	-5)	9.016	1.029	8.76	76.8	87.8
[2	0	3]	(0	2	0)	(6	-8	-4)	9.016	1.023	8.82	63.0	60.2
[1	0	-1]	(0	2	0)	(-4	2	-4)	9.016	1.019	8.85	83.5	50.9
[1	0	0]	(0	2	0)	(0	2	5)	9.016	1.017	8.86	83.5	75.5
[5	0	4]	(0	2	0)	(-4	-4	5)	9.016	1.013	8.90	77.0	79.6
[1	0	1]	(0	2	0)	(5	1	-5)	9.016	1.013	8.90	86.8	73.6
[5	0	3]	(0	2	0)	(-3	-5	5)	9.016	1.012	8.91	73.7	85.8
[4	0	-3]	(0	2	0)	(3	7	4)	9.016	1.008	8.94	67.0	56.0
[5	0	1]	(0	2	0)	(1	-5	-5)	9.016	1.005	8.97	73.8	81.6
[1	0	2]	(0	2	0)	(-8	2	4)	9.016	1.001	9.00	83.6	49.7
[1	0	1]	(0	2	0)	(5	3	-5)	9.016	1.000	9.01	80.4	73.6

Winchite (110) 362 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[1	-1	0]	(1	1	0)	(0	0	1)	8.452	5.119	1.65	77.2	83.1
[1	-1	2]	(1	1	0)	(-1	1	1)	8.452	4.882	1.73	83.4	68.3
[1	-1	0]	(1	1	0)	(1	1	-1)	8.452	4.882	1.73	68.4	83.1
[1	-1	-2]	(1	1	0)	(0	2	-1)	8.452	4.451	1.90	87.8	57.4
[1	-1	2]	(1	1	0)	(0	2	1)	8.452	4.451	1.90	64.9	68.3
[1	-1	2]	(1	1	0)	(2	0	-1)	8.452	4.031	2.10	55.1	68.3
[1	-1	-2]	(1	1	0)	(1	-1	1)	8.452	4.000	2.11	63.9	57.4
[1	-1	0]	(1	1	0)	(1	1	1)	8.452	4.000	2.11	49.6	83.1
[1	-1	4]	(1	1	0)	(-1	3	1)	8.452	3.876	2.18	83.7	47.5
[1	-1	-2]	(1	1	0)	(-1	-3	1)	8.452	3.876	2.18	60.5	57.4
[1	-1	4]	(1	1	0)	(2	-2	-1)	8.452	3.680	2.30	70.6	47.5
[1	-1	2]	(1	1	0)	(1	3	1)	8.452	3.388	2.49	43.6	68.3
[1	-1	4]	(1	1	0)	(0	4	1)	8.452	3.383	2.50	60.2	47.5
[1	-1	-2]	(1	1	0)	(2	0	1)	8.452	3.121	2.71	44.5	57.4
[1	-1	4]	(1	1	0)	(-3	1	1)	8.452	3.025	2.79	50.9	47.5
[1	-1	2]	(1	1	0)	(3	1	-1)	8.452	3.025	2.79	38.0	68.3
[1	-1	-2]	(1	1	0)	(-2	-4	1)	8.452	3.005	2.81	42.4	57.4
[1	-1	0]	(1	1	0)	(2	2	1)	8.452	2.949	2.87	34.2	83.1
[1	-1	0]	(1	1	0)	(3	3	-1)	8.452	2.733	3.09	31.4	83.1
[1	-1	4]	(1	1	0)	(1	5	1)	8.452	2.708	3.12	44.0	47.5
[1	-1	1]	(1	1	0)	(1	-1	-2)	8.452	2.616	3.23	87.0	82.1
[1	-1	0]	(1	1	0)	(1	1	-2)	8.452	2.616	3.23	85.2	83.1
[1	-1	2]	(1	1	0)	(2	4	1)	8.452	2.566	3.29	31.5	68.3
[1	-1	1]	(1	1	0)	(-2	0	2)	8.452	2.536	3.33	75.5	82.1
[1	-1	-1]	(1	1	0)	(0	-2	2)	8.452	2.462	3.43	85.1	69.2
[1	-1	1]	(1	1	0)	(0	2	2)	8.452	2.462	3.43	70.1	82.1
[1	-1	2]	(1	1	0)	(-1	3	2)	8.452	2.420	3.49	80.0	68.3
[1	-1	-1]	(1	1	0)	(-1	-3	2)	8.452	2.420	3.49	78.3	69.2
[1	-1	-2]	(1	1	0)	(3	1	1)	8.452	2.418	3.50	32.9	57.4
[1	-1	4]	(1	1	0)	(4	0	-1)	8.452	2.405	3.51	38.1	47.5
[1	-1	-2]	(1	1	0)	(-3	-5	1)	8.452	2.337	3.62	31.6	57.4
[1	-1	2]	(1	1	0)	(4	2	-1)	8.452	2.324	3.64	28.2	68.3
[1	-1	-1]	(1	1	0)	(-1	1	-2)	8.452	2.311	3.66	69.2	69.2
[1	-1	0]	(1	1	0)	(1	1	2)	8.452	2.311	3.66	61.7	83.1
[1	-1	2]	(1	1	0)	(-3	1	2)	8.452	2.277	3.71	67.9	68.3
[1	-1	1]	(1	1	0)	(3	1	-2)	8.452	2.277	3.71	60.4	82.1
[1	-1	0]	(1	1	0)	(3	3	1)	8.452	2.261	3.74	25.5	83.1
[1	-1	3]	(1	1	0)	(-2	4	2)	8.452	2.210	3.82	89.4	56.7
[1	-1	-1]	(1	1	0)	(-2	-4	2)	8.452	2.210	3.82	63.4	69.2
[1	-1	-2]	(1	1	0)	(1	-3	2)	8.452	2.172	3.89	77.3	57.4
[1	-1	1]	(1	1	0)	(1	3	2)	8.452	2.172	3.89	56.0	82.1
[1	-1	4]	(1	1	0)	(2	6	1)	8.452	2.165	3.90	33.7	47.5
[1	-1	3]	(1	1	0)	(-3	3	2)	8.452	2.144	3.94	75.9	56.7
[1	-1	0]	(1	1	0)	(3	3	-2)	8.452	2.144	3.94	54.8	83.1
[1	-1	3]	(1	1	0)	(1	-5	-2)	8.452	2.132	3.96	74.7	56.7
[1	-1	-2]	(1	1	0)	(1	5	-2)	8.452	2.132	3.96	73.2	57.4
[1	-1	-1]	(1	1	0)	(2	0	2)	8.452	2.051	4.12	56.1	69.2
[1	-1	2]	(1	1	0)	(3	5	1)	8.452	2.021	4.18	24.3	68.3

Winchite (110) 362 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** ***α*** **90°** ***β*** **104.54°** ***γ*** **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[1	-1	1]	(1	1	0)	(4	2	-2)	8.452	1.967	4.30	48.7	82.1
[1	-1	-3]	(1	1	0)	(-1	5	-2)	8.452	1.957	4.32	84.4	48.0
[1	-1	2]	(1	1	0)	(1	5	2)	8.452	1.957	4.32	52.8	68.3
[1	-1	-3]	(1	1	0)	(0	-6	2)	8.452	1.949	4.34	82.3	48.0
[1	-1	3]	(1	1	0)	(0	6	2)	8.452	1.949	4.34	61.8	56.7
[1	-1	4]	(1	1	0)	(-5	-1	1)	8.452	1.944	4.35	29.9	47.5
[1	-1	4]	(1	1	0)	(3	-5	-2)	8.452	1.936	4.37	83.1	47.5
[1	-1	-1]	(1	1	0)	(-3	-5	2)	8.452	1.936	4.37	51.6	69.2
[1	-1	-2]	(1	1	0)	(4	2	1)	8.452	1.934	4.37	25.7	57.4
[1	-1	-2]	(1	1	0)	(4	6	-1)	8.452	1.878	4.50	24.9	57.4
[1	-1	-3]	(1	1	0)	(2	-4	2)	8.452	1.867	4.53	71.7	48.0
[1	-1	1]	(1	1	0)	(2	4	2)	8.452	1.867	4.53	45.5	82.1
[1	-1	2]	(1	1	0)	(5	3	-1)	8.452	1.860	4.55	22.2	68.3
[1	-1	4]	(1	1	0)	(1	-7	-2)	8.452	1.845	4.58	71.1	47.5
[1	-1	-3]	(1	1	0)	(1	7	-2)	8.452	1.845	4.58	69.8	48.0
[1	-1	-2]	(1	1	0)	(3	-1	2)	8.452	1.778	4.75	53.0	57.4
[1	-1	-1]	(1	1	0)	(3	1	2)	8.452	1.778	4.75	46.0	69.2
[1	-1	4]	(1	1	0)	(3	7	1)	8.452	1.772	4.77	27.0	47.5
[3	-3	2]	(1	1	0)	(-2	0	3)	8.452	1.752	4.82	84.4	87.1
[1	-1	0]	(1	1	0)	(-1	-1	3)	8.452	1.749	4.83	88.9	83.1
[3	-3	2]	(1	1	0)	(1	-1	-3)	8.452	1.749	4.83	83.6	87.1
[1	-1	3]	(1	1	0)	(5	-1	-2)	8.452	1.747	4.84	52.2	56.7
[1	-1	2]	(1	1	0)	(5	1	-2)	8.452	1.747	4.84	45.3	68.3
[1	-1	3]	(1	1	0)	(1	7	2)	8.452	1.728	4.89	51.4	56.7
[3	-3	4]	(1	1	0)	(2	-2	-3)	8.452	1.720	4.91	89.7	77.4
[1	-1	0]	(1	1	0)	(-2	-2	3)	8.452	1.720	4.91	79.4	83.1
[1	-1	0]	(1	1	0)	(5	5	-1)	8.452	1.719	4.92	19.1	83.1
[1	-1	-2]	(1	1	0)	(3	7	-2)	8.452	1.714	4.93	50.3	57.4
[1	-1	-3]	(1	1	0)	(-3	3	-2)	8.452	1.713	4.94	60.6	48.0
[1	-1	0]	(1	1	0)	(3	3	2)	8.452	1.713	4.94	40.7	83.1
[3	-3	4]	(1	1	0)	(-1	3	3)	8.452	1.687	5.01	78.8	77.4
[1	-1	4]	(1	1	0)	(-5	3	2)	8.452	1.685	5.02	59.8	47.5
[1	-1	1]	(1	1	0)	(5	3	-2)	8.452	1.685	5.02	40.0	82.1
[1	-1	-3]	(1	1	0)	(-2	-8	2)	8.452	1.685	5.02	59.0	48.0
[3	-3	4]	(1	1	0)	(3	-1	-3)	8.452	1.683	5.02	78.2	77.4
[3	-3	2]	(1	1	0)	(-3	-1	3)	8.452	1.683	5.02	73.0	87.1
[3	-3	-2]	(1	1	0)	(0	-2	3)	8.452	1.676	5.04	82.5	73.6
[3	-3	2]	(1	1	0)	(0	2	3)	8.452	1.676	5.04	72.2	87.1
[1	-1	-1]	(1	1	0)	(4	6	-2)	8.452	1.674	5.05	42.6	69.2
[1	-1	2]	(1	1	0)	(4	6	1)	8.452	1.653	5.11	19.7	68.3
[1	-1	2]	(1	1	0)	(-2	4	3)	8.452	1.633	5.18	85.5	68.3
[3	-3	-2]	(1	1	0)	(-2	-4	3)	8.452	1.633	5.18	75.0	73.6
[1	-1	4]	(1	1	0)	(6	2	-1)	8.452	1.613	5.24	24.4	47.5
[3	-3	-2]	(1	1	0)	(-1	1	-3)	8.452	1.605	5.27	71.6	73.6
[1	-1	0]	(1	1	0)	(1	1	3)	8.452	1.605	5.27	66.5	83.1
[1	-1	1]	(1	1	0)	(3	5	2)	8.452	1.601	5.28	37.7	82.1
[1	-1	-2]	(1	1	0)	(5	3	1)	8.452	1.597	5.29	21.0	57.4
[3	-3	-4]	(1	1	0)	(0	-4	3)	8.452	1.596	5.30	87.6	65.0

Winchite (110) 362 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** ***α*** **90°** ***β*** **104.54°** ***γ*** **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[3	-3	4]	(1	1	0)	(0	4	3)	8.452	1.596	5.30	68.1	77.4
[3	-3	4]	(1	1	0)	(4	0	-3)	8.452	1.589	5.32	67.5	77.4
[3	-3	-4]	(1	1	0)	(-1	-5	3)	8.452	1.580	5.35	81.6	65.0
[1	-1	2]	(1	1	0)	(-1	5	3)	8.452	1.580	5.35	74.7	68.3
[1	-1	0]	(1	1	0)	(-5	-5	2)	8.452	1.578	5.36	37.0	83.1
[1	-1	2]	(1	1	0)	(4	-2	-3)	8.452	1.565	5.40	72.8	68.3
[3	-3	2]	(1	1	0)	(-4	-2	3)	8.452	1.565	5.40	62.8	87.1
[3	-3	-4]	(1	1	0)	(1	-3	3)	8.452	1.556	5.43	77.0	65.0
[3	-3	2]	(1	1	0)	(1	3	3)	8.452	1.556	5.43	62.1	87.1
[1	-1	2]	(1	1	0)	(6	4	-1)	8.452	1.541	5.49	18.3	68.3
[1	-1	-3]	(1	1	0)	(-4	2	-2)	8.452	1.537	5.50	51.4	48.0
[1	-1	-1]	(1	1	0)	(4	2	2)	8.452	1.537	5.50	38.5	69.2
[1	-1	3]	(1	1	0)	(-6	0	2)	8.452	1.534	5.51	44.0	56.7
[3	-3	8]	(1	1	0)	(3	-5	-3)	8.452	1.531	5.52	88.4	60.3
[3	-3	-2]	(1	1	0)	(3	5	-3)	8.452	1.531	5.52	64.9	73.6
[1	-1	4]	(1	1	0)	(1	9	2)	8.452	1.519	5.56	51.2	47.5
[1	-1	3]	(1	1	0)	(2	8	2)	8.452	1.517	5.57	43.3	56.7
[3	-3	8]	(1	1	0)	(2	-6	-3)	8.452	1.514	5.58	81.3	60.3
[3	-3	-4]	(1	1	0)	(2	6	-3)	8.452	1.514	5.58	71.4	65.0
[1	-1	-3]	(1	1	0)	(-3	-9	2)	8.452	1.509	5.60	50.1	48.0
[1	-1	0]	(1	1	0)	(5	5	1)	8.452	1.506	5.61	16.7	83.1
[3	-3	8]	(1	1	0)	(4	-4	-3)	8.452	1.499	5.64	78.2	60.3
[1	-1	0]	(1	1	0)	(-4	-4	3)	8.452	1.499	5.64	58.9	83.1
[3	-3	-2]	(1	1	0)	(2	0	3)	8.452	1.492	5.66	61.9	73.6
[1	-1	4]	(1	1	0)	(4	8	1)	8.452	1.487	5.68	22.4	47.5
[3	-3	-4]	(1	1	0)	(2	-2	3)	8.452	1.472	5.74	67.2	65.0
[1	-1	0]	(1	1	0)	(2	2	3)	8.452	1.472	5.74	57.3	83.1
[1	-1	-2]	(1	1	0)	(1	-5	3)	8.452	1.471	5.75	82.1	57.4
[3	-3	4]	(1	1	0)	(1	5	3)	8.452	1.471	5.75	58.8	77.4
[1	-1	2]	(1	1	0)	(3	7	2)	8.452	1.468	5.76	36.7	68.3
[1	-1	2]	(1	1	0)	(-5	1	3)	8.452	1.463	5.78	63.3	68.3
[3	-3	4]	(1	1	0)	(5	1	-3)	8.452	1.463	5.78	58.3	77.4
[1	-1	1]	(1	1	0)	(-6	-4	2)	8.452	1.452	5.82	33.7	82.1
[1	-1	-2]	(1	1	0)	(1	7	-3)	8.452	1.452	5.82	77.9	57.4
[3	-3	8]	(1	1	0)	(1	-7	-3)	8.452	1.452	5.82	71.5	60.3
[1	-1	-1]	(1	1	0)	(5	7	-2)	8.452	1.451	5.83	35.9	69.2
[1	-1	0]	(1	1	0)	(-6	-6	1)	8.452	1.439	5.87	15.9	83.1
[3	-3	8]	(1	1	0)	(5	-3	-3)	8.452	1.426	5.93	68.6	60.3
[3	-3	2]	(1	1	0)	(-5	-3	3)	8.452	1.426	5.93	54.1	87.1
[1	-1	-2]	(1	1	0)	(2	-4	3)	8.452	1.417	5.97	72.6	57.4
[3	-3	2]	(1	1	0)	(2	4	3)	8.452	1.417	5.97	53.6	87.1
[3	-3	10]	(1	1	0)	(3	-7	-3)	8.452	1.413	5.98	87.3	53.4
[3	-3	-4]	(1	1	0)	(3	7	-3)	8.452	1.413	5.98	62.2	65.0
[3	-3	10]	(1	1	0)	(4	-6	-3)	8.452	1.405	6.02	83.1	53.4
[3	-3	-2]	(1	1	0)	(-4	-6	3)	8.452	1.405	6.02	56.2	73.6
[1	-1	2]	(1	1	0)	(5	7	1)	8.452	1.393	6.07	16.5	68.3
[1	-1	1]	(1	1	0)	(4	6	2)	8.452	1.385	6.10	31.9	82.1
[3	-3	10]	(1	1	0)	(-2	8	3)	8.452	1.383	6.11	77.8	53.4

Winchite (110) 362 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** ***α*** **90°** ***β*** **104.54°** ***γ*** **90°**

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[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[1	-1	-2]	(1	1	0)	(-2	-8	3)	8.452	1.383	6.11	68.7	57.4
[1	-1	4]	(1	1	0)	(7	3	-1)	8.452	1.371	6.17	20.6	47.5
[1	-1	-3]	(1	1	0)	(-5	1	-2)	8.452	1.369	6.17	44.1	48.0
[1	-1	-2]	(1	1	0)	(5	1	2)	8.452	1.369	6.17	37.9	57.4
[1	-1	2]	(1	1	0)	(1	7	3)	8.452	1.366	6.19	56.5	68.3
[3	-3	-4]	(1	1	0)	(3	-1	3)	8.452	1.363	6.20	58.6	65.0
[3	-3	-2]	(1	1	0)	(3	1	3)	8.452	1.363	6.20	53.7	73.6
[3	-3	-8]	(1	1	0)	(0	-8	3)	8.452	1.360	6.21	84.0	50.9
[3	-3	8]	(1	1	0)	(0	8	3)	8.452	1.360	6.21	62.7	60.3
[3	-3	10]	(1	1	0)	(-5	5	3)	8.452	1.360	6.22	73.9	53.4
[1	-1	0]	(1	1	0)	(5	5	-3)	8.452	1.360	6.22	51.0	83.1
[1	-1	-2]	(1	1	0)	(6	4	1)	8.452	1.355	6.24	17.7	57.4
[1	-1	4]	(1	1	0)	(7	-1	-2)	8.452	1.348	6.27	43.7	47.5
[1	-1	3]	(1	1	0)	(-7	-1	2)	8.452	1.348	6.27	37.6	56.7
[3	-3	-8]	(1	1	0)	(2	-6	3)	8.452	1.336	6.32	77.7	50.9
[3	-3	4]	(1	1	0)	(2	6	3)	8.452	1.336	6.32	51.0	77.4
[1	-1	3]	(1	1	0)	(3	9	2)	8.452	1.333	6.34	37.1	56.7
[3	-3	8]	(1	1	0)	(6	-2	-3)	8.452	1.329	6.36	60.2	60.3
[3	-3	4]	(1	1	0)	(-6	-2	3)	8.452	1.329	6.36	50.6	77.4
[1	-1	-2]	(1	1	0)	(6	8	-1)	8.452	1.326	6.38	17.3	57.4
[2	-2	1]	(1	1	0)	(2	0	-4)	8.452	1.322	6.39	89.1	89.5
[3	-3	-8]	(1	1	0)	(-1	-9	3)	8.452	1.321	6.40	75.0	50.9
[3	-3	10]	(1	1	0)	(-1	9	3)	8.452	1.321	6.40	69.0	53.4
[1	-1	-2]	(1	1	0)	(-5	-9	2)	8.452	1.320	6.40	36.4	57.4
[1	-1	2]	(1	1	0)	(7	3	-2)	8.452	1.319	6.41	32.5	68.3
[1	-1	2]	(1	1	0)	(-7	-5	1)	8.452	1.311	6.45	15.5	68.3
[1	-1	0]	(1	1	0)	(-1	-1	4)	8.452	1.309	6.46	85.9	83.1
[2	-2	1]	(1	1	0)	(1	-1	-4)	8.452	1.309	6.46	82.0	89.5
[1	-1	1]	(1	1	0)	(3	-1	-4)	8.452	1.303	6.49	84.1	82.1
[2	-2	1]	(1	1	0)	(3	1	-4)	8.452	1.303	6.49	80.2	89.5
[1	-1	4]	(1	1	0)	(-4	8	3)	8.452	1.299	6.51	87.5	47.5
[3	-3	-4]	(1	1	0)	(4	8	-3)	8.452	1.299	6.51	54.4	65.0
[3	-3	10]	(1	1	0)	(-6	4	3)	8.452	1.288	6.56	65.5	53.4
[3	-3	2]	(1	1	0)	(6	4	-3)	8.452	1.288	6.56	47.0	87.1
[1	-1	0]	(1	1	0)	(6	6	1)	8.452	1.284	6.58	14.2	83.1
[1	-1	0]	(1	1	0)	(5	5	2)	8.452	1.283	6.59	29.3	83.1
[2	-2	-1]	(1	1	0)	(1	3	-4)	8.452	1.282	6.59	89.8	75.9
[1	-1	1]	(1	1	0)	(-1	3	4)	8.452	1.282	6.59	78.3	82.1
[3	-3	-8]	(1	1	0)	(3	-5	3)	8.452	1.278	6.61	69.2	50.9
[3	-3	2]	(1	1	0)	(3	5	3)	8.452	1.278	6.61	46.6	87.1
[1	-1	4]	(1	1	0)	(5	9	1)	8.452	1.277	6.62	19.1	47.5
[2	-2	3]	(1	1	0)	(-3	3	4)	8.452	1.276	6.62	88.0	75.0
[1	-1	0]	(1	1	0)	(3	3	-4)	8.452	1.276	6.62	76.5	83.1
[1	-1	4]	(1	1	0)	(5	-7	-3)	8.452	1.275	6.63	78.8	47.5
[3	-3	-2]	(1	1	0)	(5	7	-3)	8.452	1.275	6.63	49.0	73.6
[2	-2	3]	(1	1	0)	(2	-4	-4)	8.452	1.268	6.66	83.3	75.0
[2	-2	-1]	(1	1	0)	(2	4	-4)	8.452	1.268	6.66	81.6	75.9
[1	-1	-1]	(1	1	0)	(-6	-8	2)	8.452	1.268	6.66	30.9	69.2

Winchite (110) 362 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** ***α*** **90°** ***β*** **104.54°** ***γ*** **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[2	-2	1]	(1	1	0)	(0	2	4)	8.452	1.267	6.67	73.4	89.5
[1	-1	1]	(1	1	0)	(-7	-5	2)	8.452	1.266	6.68	28.9	82.1
[2	-2	3]	(1	1	0)	(4	-2	-4)	8.452	1.256	6.73	79.5	75.0
[2	-2	1]	(1	1	0)	(-4	-2	4)	8.452	1.256	6.73	71.8	89.5
[3	-3	-10]	(1	1	0)	(-1	9	-3)	8.452	1.255	6.73	89.2	45.4
[3	-3	8]	(1	1	0)	(1	9	3)	8.452	1.255	6.73	55.1	60.3
[3	-3	-4]	(1	1	0)	(4	0	3)	8.452	1.247	6.78	51.4	65.0
[3	-3	-10]	(1	1	0)	(-2	8	-3)	8.452	1.244	6.79	82.3	45.4
[1	-1	2]	(1	1	0)	(2	8	3)	8.452	1.244	6.79	49.4	68.3
[1	-1	-2]	(1	1	0)	(-4	2	-3)	8.452	1.236	6.84	56.3	57.4
[3	-3	-2]	(1	1	0)	(4	2	3)	8.452	1.236	6.84	46.9	73.6
[1	-1	-1]	(1	1	0)	(1	5	-4)	8.452	1.233	6.85	86.5	69.2
[2	-2	3]	(1	1	0)	(1	-5	-4)	8.452	1.233	6.85	75.0	75.0
[1	-1	2]	(1	1	0)	(-3	5	4)	8.452	1.228	6.88	88.2	68.3
[2	-2	-1]	(1	1	0)	(-3	-5	4)	8.452	1.228	6.88	73.3	75.9
[2	-2	-1]	(1	1	0)	(1	-1	4)	8.452	1.225	6.90	72.9	75.9
[1	-1	0]	(1	1	0)	(1	1	4)	8.452	1.225	6.90	69.0	83.1
[3	-3	8]	(1	1	0)	(7	-1	-3)	8.452	1.223	6.91	53.0	60.3
[1	-1	2]	(1	1	0)	(-7	-1	3)	8.452	1.223	6.91	48.3	68.3
[1	-1	-3]	(1	1	0)	(6	0	2)	8.452	1.220	6.93	38.4	48.0
[1	-1	1]	(1	1	0)	(5	7	2)	8.452	1.212	6.97	27.6	82.1
[2	-2	3]	(1	1	0)	(-5	1	4)	8.452	1.210	6.98	71.4	75.0
[1	-1	1]	(1	1	0)	(5	1	-4)	8.452	1.210	6.98	67.5	82.1
[3	-3	-10]	(1	1	0)	(3	-7	3)	8.452	1.208	7.00	74.1	45.4
[3	-3	4]	(1	1	0)	(3	7	3)	8.452	1.208	7.00	44.6	77.4
[1	-1	-1]	(1	1	0)	(1	-3	4)	8.452	1.203	7.02	76.9	69.2
[2	-2	1]	(1	1	0)	(1	3	4)	8.452	1.203	7.02	65.6	89.5
[3	-3	-8]	(1	1	0)	(-4	4	-3)	8.452	1.202	7.03	61.5	50.9
[1	-1	0]	(1	1	0)	(4	4	3)	8.452	1.202	7.03	43.4	83.1
[1	-1	2]	(1	1	0)	(6	8	1)	8.452	1.202	7.03	14.2	68.3
[3	-3	10]	(1	1	0)	(-7	3	3)	8.452	1.201	7.04	58.0	53.4
[3	-3	4]	(1	1	0)	(7	3	-3)	8.452	1.201	7.04	44.3	77.4
[1	-1	0]	(1	1	0)	(-7	-7	2)	8.452	1.197	7.06	27.1	83.1
[1	-1	3]	(1	1	0)	(8	2	-2)	8.452	1.192	7.09	32.6	56.7
[1	-1	2]	(1	1	0)	(5	-3	-4)	8.452	1.189	7.11	75.4	68.3
[2	-2	1]	(1	1	0)	(5	3	-4)	8.452	1.189	7.11	64.1	89.5
[1	-1	4]	(1	1	0)	(-8	-4	1)	8.452	1.188	7.11	17.7	47.5
[3	-3	-4]	(1	1	0)	(5	9	-3)	8.452	1.184	7.14	47.9	65.0
[1	-1	-1]	(1	1	0)	(6	4	2)	8.452	1.178	7.18	28.5	69.2
[2	-2	-3]	(1	1	0)	(0	-6	4)	8.452	1.177	7.18	88.8	63.0
[2	-2	3]	(1	1	0)	(0	6	4)	8.452	1.177	7.18	67.2	75.0
[1	-1	-2]	(1	1	0)	(7	5	1)	8.452	1.174	7.20	15.3	57.4
[2	-2	-3]	(1	1	0)	(1	7	-4)	8.452	1.169	7.23	83.2	63.0
[1	-1	2]	(1	1	0)	(1	-7	-4)	8.452	1.169	7.23	72.1	68.3
[2	-2	5]	(1	1	0)	(4	-6	-4)	8.452	1.168	7.23	87.2	62.2
[2	-2	-1]	(1	1	0)	(-4	-6	4)	8.452	1.168	7.23	65.7	75.9
[2	-2	5]	(1	1	0)	(-3	7	4)	8.452	1.165	7.26	84.9	62.2
[1	-1	-1]	(1	1	0)	(-3	-7	4)	8.452	1.165	7.26	70.5	69.2

Winchite (110) 362 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** ***α*** **90°** ***β*** **104.54°** ***γ*** **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	*θ*°	ZA^C°
[2	-2	-1]	(1	1	0)	(2	0	4)	8.452	1.165	7.26	65.3	75.9
[2	-2	-3]	(1	1	0)	(-1	5	-4)	8.452	1.163	7.27	80.9	63.0
[1	-1	1]	(1	1	0)	(1	5	4)	8.452	1.163	7.27	62.6	82.1
[1	-1	2]	(1	1	0)	(-8	-4	2)	8.452	1.162	7.27	28.2	68.3
[1	-1	4]	(1	1	0)	(7	-5	-3)	8.452	1.160	7.29	63.2	47.5
[3	-3	2]	(1	1	0)	(-7	-5	3)	8.452	1.160	7.29	41.2	87.1
[3	-3	-2]	(1	1	0)	(6	8	-3)	8.452	1.154	7.32	43.0	73.6
[3	-3	-10]	(1	1	0)	(-4	6	-3)	8.452	1.152	7.34	66.6	45.4
[3	-3	2]	(1	1	0)	(4	6	3)	8.452	1.152	7.34	40.9	87.1
[1	-1	-2]	(1	1	0)	(-7	-9	1)	8.452	1.152	7.34	15.0	57.4
[2	-2	5]	(1	1	0)	(5	-5	-4)	8.452	1.150	7.35	79.4	62.2
[1	-1	0]	(1	1	0)	(5	5	-4)	8.452	1.150	7.35	61.2	83.1
[2	-2	3]	(1	1	0)	(-6	0	4)	8.452	1.147	7.37	64.0	75.0
[2	-2	5]	(1	1	0)	(-2	8	4)	8.452	1.140	7.41	77.1	62.2
[2	-2	-3]	(1	1	0)	(-2	-8	4)	8.452	1.140	7.41	75.5	63.0
[1	-1	2]	(1	1	0)	(8	6	-1)	8.452	1.140	7.42	13.4	68.3
[1	-1	-2]	(1	1	0)	(5	-1	3)	8.452	1.136	7.44	49.9	57.4
[3	-3	-4]	(1	1	0)	(5	1	3)	8.452	1.136	7.44	45.3	65.0
[1	-1	2]	(1	1	0)	(5	9	2)	8.452	1.133	7.46	27.5	68.3
[2	-2	-3]	(1	1	0)	(-2	4	-4)	8.452	1.128	7.49	73.3	63.0
[2	-2	1]	(1	1	0)	(2	4	4)	8.452	1.128	7.49	58.6	89.5
[1	-1	-1]	(1	1	0)	(-7	-9	2)	8.452	1.121	7.54	27.0	69.2
[1	-1	0]	(1	1	0)	(7	7	1)	8.452	1.119	7.56	12.3	83.1
[3	-3	8]	(1	1	0)	(8	0	-3)	8.452	1.118	7.56	46.9	60.3
[3	-3	-8]	(1	1	0)	(-5	3	-3)	8.452	1.118	7.56	54.8	50.9
[3	-3	-2]	(1	1	0)	(5	3	3)	8.452	1.118	7.56	41.4	73.6
[1	-1	1]	(1	1	0)	(-8	-6	2)	8.452	1.117	7.57	25.2	82.1
[2	-2	5]	(1	1	0)	(6	-4	-4)	8.452	1.112	7.60	71.9	62.2
[2	-2	1]	(1	1	0)	(-6	-4	4)	8.452	1.112	7.60	57.3	89.5
[3	-3	10]	(1	1	0)	(8	-2	-3)	8.452	1.110	7.62	51.6	53.4
[1	-1	2]	(1	1	0)	(-8	-2	3)	8.452	1.110	7.62	42.6	68.3
[1	-1	-2]	(1	1	0)	(1	-7	4)	8.452	1.109	7.62	84.6	57.4
[2	-2	3]	(1	1	0)	(1	7	4)	8.452	1.109	7.62	60.2	75.0
[1	-1	0]	(1	1	0)	(7	7	-3)	8.452	1.107	7.64	39.2	83.1
[1	-1	-2]	(1	1	0)	(-1	-9	4)	8.452	1.098	7.70	80.4	57.4
[2	-2	5]	(1	1	0)	(-1	9	4)	8.452	1.098	7.70	69.8	62.2
[1	-1	3]	(1	1	0)	(-5	7	4)	8.452	1.097	7.70	83.2	56.7
[2	-2	-1]	(1	1	0)	(5	7	-4)	8.452	1.097	7.70	58.8	75.9
[1	-1	3]	(1	1	0)	(3	-9	-4)	8.452	1.094	7.72	81.9	56.7
[2	-2	-3]	(1	1	0)	(3	9	-4)	8.452	1.094	7.72	68.3	63.0
[1	-1	-1]	(1	1	0)	(-3	1	-4)	8.452	1.094	7.73	62.3	69.2
[2	-2	-1]	(1	1	0)	(3	1	4)	8.452	1.094	7.73	58.5	75.9
[1	-1	-3]	(1	1	0)	(7	1	2)	8.452	1.092	7.74	33.7	48.0
[3	-3	4]	(1	1	0)	(4	8	3)	8.452	1.091	7.74	39.4	77.4
[1	-1	4]	(1	1	0)	(-8	4	3)	8.452	1.085	7.79	56.6	47.5
[3	-3	4]	(1	1	0)	(8	4	-3)	8.452	1.085	7.79	39.1	77.4
[3	-3	-10]	(1	1	0)	(-5	5	-3)	8.452	1.085	7.79	59.8	45.4
[1	-1	0]	(1	1	0)	(5	5	3)	8.452	1.085	7.79	38.3	83.1

Winchite (110) 362 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** ***α*** **90°** ***β*** **104.54°** ***γ*** **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[1	-1	0]	(1	1	0)	(8	8	-1)	8.452	1.081	7.82	11.9	83.1
[2	-2	-3]	(1	1	0)	(3	-3	4)	8.452	1.078	7.84	66.3	63.0
[1	-1	0]	(1	1	0)	(3	3	4)	8.452	1.078	7.84	55.2	83.1
[1	-1	4]	(1	1	0)	(9	1	-2)	8.452	1.078	7.84	33.6	47.5
[1	-1	-2]	(1	1	0)	(7	3	2)	8.452	1.077	7.85	28.9	57.4
[1	-1	2]	(1	1	0)	(7	-1	-4)	8.452	1.076	7.86	61.1	68.3
[2	-2	3]	(1	1	0)	(-7	-1	4)	8.452	1.076	7.86	57.4	75.0
[1	-1	1]	(1	1	0)	(6	8	2)	8.452	1.073	7.88	24.2	82.1
[1	-1	3]	(1	1	0)	(-9	-3	2)	8.452	1.063	7.95	28.7	56.7
[2	-2	5]	(1	1	0)	(-7	3	4)	8.452	1.061	7.97	65.1	62.2
[1	-1	1]	(1	1	0)	(7	3	-4)	8.452	1.061	7.97	54.1	82.1
[5	-5	2]	(1	1	0)	(2	0	-5)	8.452	1.057	8.00	88.1	89.0
[1	-1	2]	(1	1	0)	(7	9	1)	8.452	1.055	8.01	12.4	68.3
[5	-5	4]	(1	1	0)	(-3	1	5)	8.452	1.053	8.03	87.9	85.1
[5	-5	2]	(1	1	0)	(3	1	-5)	8.452	1.053	8.03	84.7	89.0
[1	-1	0]	(1	1	0)	(-2	-2	5)	8.452	1.050	8.05	88.8	83.1
[5	-5	4]	(1	1	0)	(-2	2	5)	8.452	1.050	8.05	85.0	85.1
[1	-1	-2]	(1	1	0)	(-3	5	-4)	8.452	1.048	8.06	70.3	57.4
[2	-2	1]	(1	1	0)	(3	5	4)	8.452	1.048	8.06	52.5	89.5
[3	-3	2]	(1	1	0)	(-8	-6	3)	8.452	1.048	8.07	36.5	87.1
[2	-2	-5]	(1	1	0)	(1	-9	4)	8.452	1.047	8.07	88.0	52.4
[1	-1	2]	(1	1	0)	(1	9	4)	8.452	1.047	8.07	58.5	68.3
[1	-1	-1]	(1	1	0)	(7	5	2)	8.452	1.047	8.07	25.1	69.2
[1	-1	4]	(1	1	0)	(-9	-5	1)	8.452	1.047	8.07	15.6	47.5
[3	-3	-2]	(1	1	0)	(7	9	-3)	8.452	1.045	8.09	38.2	73.6
[1	-1	0]	(1	1	0)	(1	1	-5)	8.452	1.044	8.09	84.1	83.1
[5	-5	2]	(1	1	0)	(-1	1	5)	8.452	1.044	8.09	81.0	89.0
[3	-3	2]	(1	1	0)	(5	7	3)	8.452	1.041	8.12	36.2	87.1
[5	-5	6]	(1	1	0)	(-3	3	5)	8.452	1.039	8.14	89.0	79.3
[1	-1	0]	(1	1	0)	(-3	-3	5)	8.452	1.039	8.14	81.7	83.1
[2	-2	7]	(1	1	0)	(5	-9	-4)	8.452	1.038	8.15	86.6	51.8
[1	-1	-1]	(1	1	0)	(-5	-9	4)	8.452	1.038	8.15	57.1	69.2
[2	-2	-5]	(1	1	0)	(2	-8	4)	8.452	1.035	8.17	81.0	52.4
[2	-2	3]	(1	1	0)	(2	8	4)	8.452	1.035	8.17	54.1	75.0
[1	-1	-2]	(1	1	0)	(8	6	1)	8.452	1.034	8.17	13.4	57.4
[1	-1	2]	(1	1	0)	(9	5	-2)	8.452	1.034	8.17	24.9	68.3
[3	-3	-8]	(1	1	0)	(-6	2	-3)	8.452	1.033	8.18	49.1	50.9
[3	-3	-4]	(1	1	0)	(6	2	3)	8.452	1.033	8.18	40.3	65.0
[5	-5	6]	(1	1	0)	(-4	2	5)	8.452	1.033	8.18	83.9	79.3
[5	-5	2]	(1	1	0)	(4	2	-5)	8.452	1.033	8.18	77.7	89.0
[1	-1	3]	(1	1	0)	(-7	5	4)	8.452	1.032	8.19	69.1	56.7
[2	-2	1]	(1	1	0)	(7	5	-4)	8.452	1.032	8.19	51.4	89.5
[5	-5	-2]	(1	1	0)	(-1	-3	5)	8.452	1.031	8.20	87.3	77.3
[5	-5	4]	(1	1	0)	(1	-3	-5)	8.452	1.031	8.20	78.0	85.1
[5	-5	-2]	(1	1	0)	(2	4	-5)	8.452	1.029	8.21	85.7	77.3
[5	-5	6]	(1	1	0)	(2	-4	-5)	8.452	1.029	8.21	82.0	79.3
[2	-2	-1]	(1	1	0)	(6	8	-4)	8.452	1.023	8.27	52.9	75.9
[3	-3	10]	(1	1	0)	(-9	1	3)	8.452	1.021	8.28	46.2	53.4

Winchite (110) 362 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[3	-3	8]	(1	1	0)	(9	1	-3)	8.452	1.021	8.28	41.8	60.3
[2	-2	-3]	(1	1	0)	(-4	2	-4)	8.452	1.019	8.30	59.9	63.0
[2	-2	-1]	(1	1	0)	(4	2	4)	8.452	1.019	8.30	52.6	75.9
[5	-5	-2]	(1	1	0)	(0	2	-5)	8.452	1.017	8.31	80.3	77.3
[5	-5	2]	(1	1	0)	(0	2	5)	8.452	1.017	8.31	74.1	89.0
[3	-3	-10]	(1	1	0)	(-6	4	-3)	8.452	1.014	8.34	53.8	45.4
[3	-3	-2]	(1	1	0)	(6	4	3)	8.452	1.014	8.34	36.8	73.6
[5	-5	8]	(1	1	0)	(-4	4	5)	8.452	1.013	8.34	87.1	73.6
[1	-1	0]	(1	1	0)	(4	4	-5)	8.452	1.013	8.34	74.9	83.1
[5	-5	6]	(1	1	0)	(-5	1	5)	8.452	1.013	8.35	77.1	79.3
[5	-5	4]	(1	1	0)	(5	1	-5)	8.452	1.013	8.35	74.0	85.1
[5	-5	8]	(1	1	0)	(3	-5	-5)	8.452	1.012	8.35	86.0	73.6
[5	-5	-2]	(1	1	0)	(3	5	-5)	8.452	1.012	8.35	78.9	77.3
[1	-1	4]	(1	1	0)	(-9	3	3)	8.452	1.008	8.38	50.9	47.5
[1	-1	2]	(1	1	0)	(9	3	-3)	8.452	1.008	8.38	38.0	68.3
[2	-2	-5]	(1	1	0)	(-3	7	-4)	8.452	1.008	8.38	74.2	52.4
[1	-1	1]	(1	1	0)	(3	7	4)	8.452	1.008	8.38	50.3	82.1
[1	-1	0]	(1	1	0)	(7	7	2)	8.452	1.007	8.39	22.6	83.1
[1	-1	2]	(1	1	0)	(-9	-7	1)	8.452	1.007	8.39	11.8	68.3
[5	-5	-4]	(1	1	0)	(1	5	-5)	8.452	1.005	8.41	89.7	71.8
[5	-5	6]	(1	1	0)	(1	-5	-5)	8.452	1.005	8.41	75.2	79.3
[1	-1	0]	(1	1	0)	(8	8	-3)	8.452	1.002	8.44	34.9	83.1
[2	-2	5]	(1	1	0)	(-8	2	4)	8.452	1.001	8.44	58.9	62.2
[2	-2	3]	(1	1	0)	(8	2	-4)	8.452	1.001	8.44	51.6	75.0
[5	-5	8]	(1	1	0)	(-5	3	5)	8.452	1.000	8.45	80.3	73.6
[5	-5	2]	(1	1	0)	(5	3	-5)	8.452	1.000	8.45	71.1	89.0

Winchite (130) 295 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[3	-1	0]	(1	3	0)	(0	0	1)	5.090	5.119	0.99	82.3	77.6
[3	-1	4]	(1	3	0)	(1	-1	-1)	5.090	4.882	1.04	85.2	67.9
[3	-1	2]	(1	3	0)	(1	1	-1)	5.090	4.882	1.04	68.0	84.7
[3	-1	-2]	(1	3	0)	(0	2	-1)	5.090	4.451	1.14	72.5	62.0
[3	-1	2]	(1	3	0)	(0	2	1)	5.090	4.451	1.14	57.7	84.7
[3	-1	6]	(1	3	0)	(2	0	-1)	5.090	4.031	1.26	69.8	54.3
[3	-1	-4]	(1	3	0)	(1	-1	1)	5.090	4.000	1.27	81.9	49.8
[3	-1	-2]	(1	3	0)	(1	1	1)	5.090	4.000	1.27	59.0	62.0
[3	-1	4]	(1	3	0)	(2	2	-1)	5.090	3.680	1.38	48.7	67.9
[3	-1	0]	(1	3	0)	(1	3	1)	5.090	3.388	1.50	41.0	77.6
[3	-1	-4]	(1	3	0)	(0	4	-1)	5.090	3.383	1.50	56.9	49.8
[3	-1	4]	(1	3	0)	(0	4	1)	5.090	3.383	1.50	43.7	67.9
[3	-1	2]	(1	3	0)	(2	4	-1)	5.090	3.005	1.69	34.8	84.7
[3	-1	-4]	(1	3	0)	(2	2	1)	5.090	2.949	1.73	46.9	49.8
[3	-1	-2]	(1	3	0)	(1	5	-1)	5.090	2.939	1.73	39.0	62.0
[3	-1	6]	(1	3	0)	(-3	-3	1)	5.090	2.733	1.86	39.5	54.3
[3	-1	2]	(1	3	0)	(1	5	1)	5.090	2.708	1.88	31.0	84.7
[3	-1	2]	(1	3	0)	(1	-1	-2)	5.090	2.616	1.95	83.5	84.7
[3	-1	1]	(1	3	0)	(1	1	-2)	5.090	2.616	1.95	82.4	86.4
[3	-1	6]	(1	3	0)	(0	6	1)	5.090	2.592	1.96	37.1	54.3
[3	-1	-2]	(1	3	0)	(2	4	1)	5.090	2.566	1.98	33.3	62.0
[3	-1	3]	(1	3	0)	(-2	0	2)	5.090	2.536	2.01	81.3	76.0
[3	-1	-1]	(1	3	0)	(0	2	-2)	5.090	2.462	2.07	84.1	69.4
[3	-1	1]	(1	3	0)	(0	2	2)	5.090	2.462	2.07	68.9	86.4
[3	-1	3]	(1	3	0)	(-1	3	2)	5.090	2.420	2.10	70.6	76.0
[3	-1	0]	(1	3	0)	(-1	-3	2)	5.090	2.420	2.10	69.6	77.6
[3	-1	0]	(1	3	0)	(2	6	-1)	5.090	2.409	2.11	27.8	77.6
[3	-1	4]	(1	3	0)	(3	5	-1)	5.090	2.337	2.18	28.5	67.9
[3	-1	-2]	(1	3	0)	(-1	1	-2)	5.090	2.311	2.20	81.9	62.0
[3	-1	-1]	(1	3	0)	(1	1	2)	5.090	2.311	2.20	69.0	69.4
[3	-1	-4]	(1	3	0)	(-1	-7	1)	5.090	2.297	2.22	34.7	49.8
[3	-1	5]	(1	3	0)	(3	-1	-2)	5.090	2.277	2.24	81.0	60.7
[3	-1	4]	(1	3	0)	(-3	-1	2)	5.090	2.277	2.24	68.3	67.9
[3	-1	5]	(1	3	0)	(-2	4	2)	5.090	2.210	2.30	73.5	60.7
[3	-1	1]	(1	3	0)	(-2	-4	2)	5.090	2.210	2.30	56.9	86.4
[3	-1	4]	(1	3	0)	(1	7	1)	5.090	2.181	2.33	26.4	67.9
[3	-1	-3]	(1	3	0)	(1	-3	2)	5.090	2.172	2.34	85.9	55.5
[3	-1	0]	(1	3	0)	(1	3	2)	5.090	2.172	2.34	57.3	77.6
[3	-1	6]	(1	3	0)	(-3	3	2)	5.090	2.144	2.37	86.9	54.3
[3	-1	3]	(1	3	0)	(-3	-3	2)	5.090	2.144	2.37	56.7	76.0
[3	-1	4]	(1	3	0)	(-1	5	2)	5.090	2.132	2.39	60.5	67.9
[3	-1	-1]	(1	3	0)	(1	5	-2)	5.090	2.132	2.39	59.5	69.4
[3	-1	-3]	(1	3	0)	(2	0	2)	5.090	2.051	2.48	70.3	55.5
[3	-1	-4]	(1	3	0)	(3	5	1)	5.090	2.021	2.52	30.0	49.8
[3	-1	-2]	(1	3	0)	(2	8	-1)	5.090	1.967	2.59	24.9	62.0
[3	-1	7]	(1	3	0)	(-4	2	2)	5.090	1.967	2.59	81.2	48.8
[3	-1	5]	(1	3	0)	(4	2	-2)	5.090	1.967	2.59	58.6	60.7
[3	-1	-4]	(1	3	0)	(1	-5	2)	5.090	1.957	2.60	75.7	49.8

Winchite (130) 295 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[3	-1	1]	(1	3	0)	(1	5	2)	5.090	1.957	2.60	47.9	86.4
[3	-1	-3]	(1	3	0)	(0	-6	2)	5.090	1.949	2.61	63.5	55.5
[3	-1	3]	(1	3	0)	(0	6	2)	5.090	1.949	2.61	49.4	76.0
[3	-1	7]	(1	3	0)	(3	-5	-2)	5.090	1.936	2.63	76.7	48.8
[3	-1	2]	(1	3	0)	(3	5	-2)	5.090	1.936	2.63	47.3	84.7
[3	-1	6]	(1	3	0)	(-4	-6	1)	5.090	1.878	2.71	25.9	54.3
[3	-1	-1]	(1	3	0)	(2	4	2)	5.090	1.867	2.73	49.0	69.4
[3	-1	5]	(1	3	0)	(1	-7	-2)	5.090	1.845	2.76	53.2	60.7
[3	-1	-2]	(1	3	0)	(1	7	-2)	5.090	1.845	2.76	52.2	62.0
[3	-1	2]	(1	3	0)	(2	8	1)	5.090	1.827	2.79	20.3	84.7
[3	-1	6]	(1	3	0)	(1	9	1)	5.090	1.800	2.83	24.8	54.3
[3	-1	-4]	(1	3	0)	(3	1	2)	5.090	1.778	2.86	61.7	49.8
[3	-1	-2]	(1	3	0)	(3	7	1)	5.090	1.772	2.87	22.3	62.0
[3	-1	2]	(1	3	0)	(2	0	-3)	5.090	1.752	2.91	86.7	84.7
[9	-3	2]	(1	3	0)	(-1	-1	3)	5.090	1.749	2.91	87.6	83.4
[9	-3	4]	(1	3	0)	(-1	1	3)	5.090	1.749	2.91	83.0	89.4
[3	-1	7]	(1	3	0)	(5	1	-2)	5.090	1.747	2.91	61.4	48.8
[3	-1	2]	(1	3	0)	(1	7	2)	5.090	1.728	2.95	41.0	84.7
[9	-3	8]	(1	3	0)	(-2	2	3)	5.090	1.720	2.96	84.0	78.8
[9	-3	4]	(1	3	0)	(-2	-2	3)	5.090	1.720	2.96	77.4	89.4
[3	-1	1]	(1	3	0)	(3	7	-2)	5.090	1.714	2.97	40.5	86.4
[3	-1	-3]	(1	3	0)	(3	3	2)	5.090	1.713	2.97	51.8	55.5
[3	-1	0]	(1	3	0)	(1	3	-3)	5.090	1.687	3.02	78.5	77.6
[3	-1	2]	(1	3	0)	(1	-3	-3)	5.090	1.687	3.02	74.0	84.7
[3	-1	6]	(1	3	0)	(5	3	-2)	5.090	1.685	3.02	51.7	54.3
[3	-1	7]	(1	3	0)	(2	-8	-2)	5.090	1.685	3.02	57.8	48.8
[3	-1	-1]	(1	3	0)	(2	8	-2)	5.090	1.685	3.02	42.9	69.4
[9	-3	10]	(1	3	0)	(3	-1	-3)	5.090	1.683	3.02	85.9	73.2
[9	-3	8]	(1	3	0)	(-3	-1	3)	5.090	1.683	3.02	76.8	78.8
[3	-1	0]	(1	3	0)	(3	9	-1)	5.090	1.678	3.03	19.0	77.6
[9	-3	-2]	(1	3	0)	(0	-2	3)	5.090	1.676	3.04	88.5	72.1
[9	-3	2]	(1	3	0)	(0	2	3)	5.090	1.676	3.04	73.2	83.4
[3	-1	3]	(1	3	0)	(-4	-6	2)	5.090	1.674	3.04	40.7	76.0
[3	-1	4]	(1	3	0)	(4	8	-1)	5.090	1.645	3.09	19.6	67.9
[9	-3	10]	(1	3	0)	(2	-4	-3)	5.090	1.633	3.12	75.4	73.2
[9	-3	2]	(1	3	0)	(2	4	-3)	5.090	1.633	3.12	68.8	83.4
[9	-3	-4]	(1	3	0)	(1	-1	3)	5.090	1.605	3.17	81.9	66.8
[9	-3	-2]	(1	3	0)	(1	1	3)	5.090	1.605	3.17	73.1	72.1
[3	-1	-2]	(1	3	0)	(3	5	2)	5.090	1.601	3.18	43.3	62.0
[3	-1	6]	(1	3	0)	(1	-9	-2)	5.090	1.597	3.19	48.0	54.3
[3	-1	-3]	(1	3	0)	(1	9	-2)	5.090	1.597	3.19	47.2	55.5
[9	-3	-4]	(1	3	0)	(0	-4	3)	5.090	1.596	3.19	80.0	66.8
[9	-3	4]	(1	3	0)	(0	4	3)	5.090	1.596	3.19	64.9	89.4
[3	-1	4]	(1	3	0)	(-4	0	3)	5.090	1.589	3.20	76.7	67.9
[9	-3	-2]	(1	3	0)	(1	5	-3)	5.090	1.580	3.22	70.4	72.1
[9	-3	8]	(1	3	0)	(1	-5	-3)	5.090	1.580	3.22	66.0	78.8
[3	-1	5]	(1	3	0)	(5	5	-2)	5.090	1.578	3.22	43.2	60.7
[9	-3	14]	(1	3	0)	(-4	2	3)	5.090	1.565	3.25	85.4	63.0

Winchite (130) 295 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** ***α*** **90°** ***β*** **104.54°** ***γ*** **90°**

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[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[9	-3	10]	(1	3	0)	(4	2	-3)	5.090	1.565	3.25	68.0	73.2
[3	-1	-2]	(1	3	0)	(1	-3	3)	5.090	1.556	3.27	89.4	62.0
[3	-1	0]	(1	3	0)	(1	3	3)	5.090	1.556	3.27	64.7	77.6
[3	-1	0]	(1	3	0)	(3	9	1)	5.090	1.549	3.29	17.4	77.6
[9	-3	14]	(1	3	0)	(-3	5	3)	5.090	1.531	3.32	77.1	63.0
[9	-3	4]	(1	3	0)	(3	5	-3)	5.090	1.531	3.32	60.3	89.4
[3	-1	3]	(1	3	0)	(1	9	2)	5.090	1.519	3.35	36.3	76.0
[3	-1	1]	(1	3	0)	(2	8	2)	5.090	1.517	3.36	35.1	86.4
[3	-1	4]	(1	3	0)	(2	-6	-3)	5.090	1.514	3.36	67.9	67.9
[3	-1	0]	(1	3	0)	(2	6	-3)	5.090	1.514	3.36	61.5	77.6
[3	-1	0]	(1	3	0)	(-3	-9	2)	5.090	1.509	3.37	35.8	77.6
[9	-3	16]	(1	3	0)	(4	-4	-3)	5.090	1.499	3.40	86.3	58.4
[9	-3	8]	(1	3	0)	(4	4	-3)	5.090	1.499	3.40	60.1	78.8
[3	-1	-2]	(1	3	0)	(2	0	3)	5.090	1.492	3.41	73.5	62.0
[3	-1	-4]	(1	3	0)	(4	8	1)	5.090	1.487	3.42	21.6	49.8
[9	-3	-8]	(1	3	0)	(-2	2	-3)	5.090	1.472	3.46	81.8	57.5
[9	-3	-4]	(1	3	0)	(2	2	3)	5.090	1.472	3.46	65.3	66.8
[9	-3	-8]	(1	3	0)	(1	-5	3)	5.090	1.471	3.46	81.5	57.5
[9	-3	2]	(1	3	0)	(1	5	3)	5.090	1.471	3.46	57.1	83.4
[3	-1	-1]	(1	3	0)	(3	7	2)	5.090	1.468	3.47	36.4	69.4
[9	-3	16]	(1	3	0)	(5	-1	-3)	5.090	1.463	3.48	77.0	58.4
[9	-3	14]	(1	3	0)	(-5	-1	3)	5.090	1.463	3.48	68.7	63.0
[3	-1	7]	(1	3	0)	(6	4	-2)	5.090	1.452	3.50	46.9	48.8
[9	-3	-4]	(1	3	0)	(-1	-7	3)	5.090	1.452	3.51	63.6	66.8
[9	-3	10]	(1	3	0)	(-1	7	3)	5.090	1.452	3.51	59.4	73.2
[3	-1	4]	(1	3	0)	(-5	-7	2)	5.090	1.451	3.51	36.3	67.9
[3	-1	6]	(1	3	0)	(5	-3	-3)	5.090	1.426	3.57	85.1	54.3
[3	-1	4]	(1	3	0)	(-5	-3	3)	5.090	1.426	3.57	60.8	67.9
[9	-3	-10]	(1	3	0)	(2	-4	3)	5.090	1.417	3.59	89.8	53.5
[9	-3	-2]	(1	3	0)	(2	4	3)	5.090	1.417	3.59	57.6	72.1
[9	-3	16]	(1	3	0)	(-3	7	3)	5.090	1.413	3.60	70.2	58.4
[9	-3	2]	(1	3	0)	(-3	-7	3)	5.090	1.413	3.60	53.8	83.4
[3	-1	6]	(1	3	0)	(-4	6	3)	5.090	1.405	3.62	79.0	54.3
[3	-1	2]	(1	3	0)	(-4	-6	3)	5.090	1.405	3.62	53.2	84.7
[3	-1	6]	(1	3	0)	(5	9	-1)	5.090	1.399	3.64	19.0	54.3
[3	-1	-3]	(1	3	0)	(4	6	2)	5.090	1.385	3.68	39.5	55.5
[9	-3	14]	(1	3	0)	(-2	8	3)	5.090	1.383	3.68	61.8	63.0
[9	-3	-2]	(1	3	0)	(-2	-8	3)	5.090	1.383	3.68	55.6	72.1
[9	-3	4]	(1	3	0)	(1	7	3)	5.090	1.366	3.73	50.8	89.4
[9	-3	-10]	(1	3	0)	(3	-1	3)	5.090	1.363	3.73	74.2	53.5
[9	-3	-8]	(1	3	0)	(3	1	3)	5.090	1.363	3.73	66.5	57.5
[9	-3	-8]	(1	3	0)	(0	-8	3)	5.090	1.360	3.74	66.2	57.5
[9	-3	8]	(1	3	0)	(0	8	3)	5.090	1.360	3.74	51.9	78.8
[9	-3	20]	(1	3	0)	(5	-5	-3)	5.090	1.360	3.74	87.4	50.6
[9	-3	10]	(1	3	0)	(5	5	-3)	5.090	1.360	3.74	53.7	73.2
[3	-1	0]	(1	3	0)	(2	6	3)	5.090	1.336	3.81	50.9	77.6
[3	-1	0]	(1	3	0)	(3	9	2)	5.090	1.333	3.82	31.1	77.6
[9	-3	20]	(1	3	0)	(-6	2	3)	5.090	1.329	3.83	77.5	50.6

Winchite (130) 295 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

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[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[9	-3	16]	(1	3	0)	(6	2	-3)	5.090	1.329	3.83	62.2	58.4
[6	-2	3]	(1	3	0)	(-2	0	4)	5.090	1.322	3.85	89.5	89.1
[3	-1	-2]	(1	3	0)	(1	9	-3)	5.090	1.321	3.85	58.1	62.0
[3	-1	4]	(1	3	0)	(1	-9	-3)	5.090	1.321	3.85	54.0	67.9
[3	-1	3]	(1	3	0)	(5	9	-2)	5.090	1.320	3.86	31.0	76.0
[6	-2	1]	(1	3	0)	(1	1	-4)	5.090	1.309	3.89	89.9	82.0
[3	-1	1]	(1	3	0)	(-1	1	4)	5.090	1.309	3.89	82.8	86.4
[6	-2	5]	(1	3	0)	(-3	1	4)	5.090	1.303	3.91	88.8	80.3
[3	-1	2]	(1	3	0)	(3	1	-4)	5.090	1.303	3.91	81.8	84.7
[9	-3	20]	(1	3	0)	(-4	8	3)	5.090	1.299	3.92	72.6	50.6
[9	-3	4]	(1	3	0)	(-4	-8	3)	5.090	1.299	3.92	47.5	89.4
[9	-3	22]	(1	3	0)	(6	-4	-3)	5.090	1.288	3.95	84.9	47.2
[9	-3	14]	(1	3	0)	(-6	-4	3)	5.090	1.288	3.95	55.1	63.0
[3	-1	0]	(1	3	0)	(1	3	-4)	5.090	1.282	3.97	83.2	77.6
[6	-2	3]	(1	3	0)	(1	-3	-4)	5.090	1.282	3.97	75.9	89.1
[9	-3	-14]	(1	3	0)	(-3	5	-3)	5.090	1.278	3.98	89.2	46.5
[9	-3	-4]	(1	3	0)	(3	5	3)	5.090	1.278	3.98	52.1	66.8
[3	-1	3]	(1	3	0)	(3	-3	-4)	5.090	1.276	3.99	84.3	76.0
[6	-2	3]	(1	3	0)	(3	3	-4)	5.090	1.276	3.99	74.9	89.1
[9	-3	22]	(1	3	0)	(5	-7	-3)	5.090	1.275	3.99	80.6	47.2
[9	-3	8]	(1	3	0)	(5	7	-3)	5.090	1.275	3.99	47.5	78.8
[6	-2	5]	(1	3	0)	(2	-4	-4)	5.090	1.268	4.01	76.8	80.3
[6	-2	1]	(1	3	0)	(2	4	-4)	5.090	1.268	4.01	75.7	82.0
[3	-1	5]	(1	3	0)	(-6	-8	2)	5.090	1.268	4.01	33.4	60.7
[6	-2	1]	(1	3	0)	(0	2	4)	5.090	1.267	4.02	75.4	82.0
[6	-2	7]	(1	3	0)	(-4	2	4)	5.090	1.256	4.05	88.2	71.9
[6	-2	5]	(1	3	0)	(4	2	-4)	5.090	1.256	4.05	74.5	80.3
[3	-1	-4]	(1	3	0)	(-1	9	-3)	5.090	1.255	4.05	68.8	49.8
[3	-1	2]	(1	3	0)	(1	9	3)	5.090	1.255	4.05	45.7	84.7
[3	-1	-4]	(1	3	0)	(4	0	3)	5.090	1.247	4.08	67.9	49.8
[9	-3	-14]	(1	3	0)	(2	-8	3)	5.090	1.244	4.09	76.7	46.5
[9	-3	2]	(1	3	0)	(2	8	3)	5.090	1.244	4.09	45.3	83.4
[9	-3	-14]	(1	3	0)	(-4	2	-3)	5.090	1.236	4.12	75.1	46.5
[9	-3	-10]	(1	3	0)	(4	2	3)	5.090	1.236	4.12	60.7	53.5
[6	-2	-1]	(1	3	0)	(-1	-5	4)	5.090	1.233	4.13	76.7	73.4
[3	-1	2]	(1	3	0)	(-1	5	4)	5.090	1.233	4.13	69.5	84.7
[6	-2	7]	(1	3	0)	(3	-5	-4)	5.090	1.228	4.14	77.8	71.9
[3	-1	1]	(1	3	0)	(3	5	-4)	5.090	1.228	4.14	68.6	86.4
[6	-2	-1]	(1	3	0)	(1	1	4)	5.090	1.225	4.15	75.3	73.4
[9	-3	22]	(1	3	0)	(7	-1	-3)	5.090	1.223	4.16	71.0	47.2
[9	-3	20]	(1	3	0)	(-7	-1	3)	5.090	1.223	4.16	63.9	50.6
[3	-1	-4]	(1	3	0)	(5	7	2)	5.090	1.212	4.20	36.9	49.8
[3	-1	4]	(1	3	0)	(5	-1	-4)	5.090	1.210	4.21	81.1	67.9
[6	-2	7]	(1	3	0)	(-5	-1	4)	5.090	1.210	4.21	74.4	71.9
[9	-3	-2]	(1	3	0)	(3	7	3)	5.090	1.208	4.21	46.1	72.1
[6	-2	-3]	(1	3	0)	(-1	3	-4)	5.090	1.203	4.23	88.6	65.6
[3	-1	0]	(1	3	0)	(1	3	4)	5.090	1.203	4.23	68.7	77.6
[9	-3	-8]	(1	3	0)	(4	4	3)	5.090	1.202	4.23	53.9	57.5

Winchite (130) 295 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** ***α*** **90°** ***β*** **104.54°** ***γ*** **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[3	-1	6]	(1	3	0)	(7	3	-3)	5.090	1.201	4.24	57.0	54.3
[3	-1	7]	(1	3	0)	(-7	-7	2)	5.090	1.197	4.25	37.0	48.8
[6	-2	9]	(1	3	0)	(5	-3	-4)	5.090	1.189	4.28	87.7	64.2
[3	-1	3]	(1	3	0)	(-5	-3	4)	5.090	1.189	4.28	68.0	76.0
[3	-1	2]	(1	3	0)	(5	9	-3)	5.090	1.184	4.30	42.4	84.7
[6	-2	-3]	(1	3	0)	(0	-6	4)	5.090	1.177	4.32	78.0	65.6
[6	-2	3]	(1	3	0)	(0	6	4)	5.090	1.177	4.32	63.0	89.1
[3	-1	-1]	(1	3	0)	(-1	-7	4)	5.090	1.169	4.35	70.9	69.4
[6	-2	5]	(1	3	0)	(-1	7	4)	5.090	1.169	4.35	63.8	80.3
[6	-2	9]	(1	3	0)	(4	-6	-4)	5.090	1.168	4.36	79.1	64.2
[6	-2	3]	(1	3	0)	(4	6	-4)	5.090	1.168	4.36	62.1	89.1
[3	-1	4]	(1	3	0)	(3	-7	-4)	5.090	1.165	4.37	72.0	67.9
[6	-2	1]	(1	3	0)	(3	7	-4)	5.090	1.165	4.37	62.9	82.0
[6	-2	-3]	(1	3	0)	(2	0	4)	5.090	1.165	4.37	75.4	65.6
[3	-1	-2]	(1	3	0)	(-1	5	-4)	5.090	1.163	4.38	85.1	62.0
[6	-2	1]	(1	3	0)	(1	5	4)	5.090	1.163	4.38	62.7	82.0
[9	-3	16]	(1	3	0)	(-7	-5	3)	5.090	1.160	4.39	50.6	58.4
[9	-3	10]	(1	3	0)	(6	8	-3)	5.090	1.154	4.41	43.1	73.2
[3	-1	-2]	(1	3	0)	(4	6	3)	5.090	1.152	4.42	47.8	62.0
[3	-1	5]	(1	3	0)	(-5	5	4)	5.090	1.150	4.43	86.1	60.7
[6	-2	5]	(1	3	0)	(-5	-5	4)	5.090	1.150	4.43	61.9	80.3
[6	-2	9]	(1	3	0)	(6	0	-4)	5.090	1.147	4.44	74.6	64.2
[6	-2	7]	(1	3	0)	(2	-8	-4)	5.090	1.140	4.46	65.2	71.9
[6	-2	-1]	(1	3	0)	(2	8	-4)	5.090	1.140	4.46	64.1	73.4
[9	-3	-14]	(1	3	0)	(5	1	3)	5.090	1.136	4.48	62.6	46.5
[3	-1	-3]	(1	3	0)	(5	9	2)	5.090	1.133	4.49	31.3	55.5
[6	-2	-5]	(1	3	0)	(2	-4	4)	5.090	1.128	4.51	88.1	58.6
[6	-2	-1]	(1	3	0)	(2	4	4)	5.090	1.128	4.51	62.9	73.4
[3	-1	6]	(1	3	0)	(7	9	-2)	5.090	1.121	4.54	31.5	54.3
[3	-1	-4]	(1	3	0)	(5	3	3)	5.090	1.118	4.55	56.1	49.8
[6	-2	11]	(1	3	0)	(6	-4	-4)	5.090	1.112	4.58	87.3	57.4
[6	-2	7]	(1	3	0)	(-6	-4	4)	5.090	1.112	4.58	62.3	71.9
[9	-3	22]	(1	3	0)	(8	2	-3)	5.090	1.110	4.59	59.1	47.2
[6	-2	-5]	(1	3	0)	(1	-7	4)	5.090	1.109	4.59	79.3	58.6
[3	-1	1]	(1	3	0)	(1	7	4)	5.090	1.109	4.59	57.2	86.4
[9	-3	14]	(1	3	0)	(-7	-7	3)	5.090	1.107	4.60	44.8	63.0
[6	-2	-3]	(1	3	0)	(1	9	-4)	5.090	1.098	4.64	65.8	65.6
[3	-1	3]	(1	3	0)	(-1	9	4)	5.090	1.098	4.64	58.9	76.0
[6	-2	11]	(1	3	0)	(5	-7	-4)	5.090	1.097	4.64	80.3	57.4
[3	-1	2]	(1	3	0)	(5	7	-4)	5.090	1.097	4.64	56.5	84.7
[6	-2	9]	(1	3	0)	(3	-9	-4)	5.090	1.094	4.65	66.9	64.2
[3	-1	0]	(1	3	0)	(3	9	-4)	5.090	1.094	4.65	57.9	77.6
[6	-2	-5]	(1	3	0)	(-3	1	-4)	5.090	1.094	4.65	75.7	58.6
[3	-1	-2]	(1	3	0)	(3	1	4)	5.090	1.094	4.65	69.6	62.0
[9	-3	-4]	(1	3	0)	(4	8	3)	5.090	1.091	4.66	42.3	66.8
[9	-3	20]	(1	3	0)	(8	4	-3)	5.090	1.085	4.69	52.9	50.6
[9	-3	-10]	(1	3	0)	(5	5	3)	5.090	1.085	4.69	50.0	53.5
[3	-1	-3]	(1	3	0)	(3	-3	4)	5.090	1.078	4.72	81.9	55.5

Winchite (130) 295 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** ***α*** **90°** ***β*** **104.54°** ***γ*** **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[6	-2	-3]	(1	3	0)	(3	3	4)	5.090	1.078	4.72	63.6	65.6
[6	-2	11]	(1	3	0)	(-7	1	4)	5.090	1.076	4.73	75.1	57.4
[3	-1	5]	(1	3	0)	(7	1	-4)	5.090	1.076	4.73	69.0	60.7
[3	-1	6]	(1	3	0)	(-7	3	4)	5.090	1.061	4.80	81.1	54.3
[6	-2	9]	(1	3	0)	(7	3	-4)	5.090	1.061	4.80	63.0	64.2
[15	-5	6]	(1	3	0)	(2	0	-5)	5.090	1.057	4.82	88.9	88.2
[3	-1	2]	(1	3	0)	(-3	1	5)	5.090	1.053	4.83	89.4	84.7
[15	-5	8]	(1	3	0)	(3	1	-5)	5.090	1.053	4.83	84.9	88.2
[15	-5	4]	(1	3	0)	(2	2	-5)	5.090	1.050	4.85	85.5	84.6
[15	-5	8]	(1	3	0)	(-2	2	5)	5.090	1.050	4.85	83.2	88.2
[6	-2	-7]	(1	3	0)	(-3	5	-4)	5.090	1.048	4.85	87.7	52.5
[3	-1	-1]	(1	3	0)	(3	5	4)	5.090	1.048	4.85	57.9	69.4
[3	-1	6]	(1	3	0)	(-8	-6	3)	5.090	1.048	4.86	47.1	54.3
[3	-1	-3]	(1	3	0)	(-1	9	-4)	5.090	1.047	4.86	74.1	55.5
[6	-2	3]	(1	3	0)	(1	9	4)	5.090	1.047	4.86	52.4	89.1
[3	-1	4]	(1	3	0)	(7	9	-3)	5.090	1.045	4.87	39.8	67.9
[15	-5	2]	(1	3	0)	(1	1	-5)	5.090	1.044	4.87	88.3	81.1
[15	-5	4]	(1	3	0)	(-1	1	5)	5.090	1.044	4.87	82.7	84.6
[9	-3	-8]	(1	3	0)	(5	7	3)	5.090	1.041	4.89	44.4	57.5
[15	-5	12]	(1	3	0)	(4	0	-5)	5.090	1.040	4.89	84.5	81.1
[15	-5	12]	(1	3	0)	(3	-3	-5)	5.090	1.039	4.90	83.8	81.1
[15	-5	6]	(1	3	0)	(3	3	-5)	5.090	1.039	4.90	79.4	88.2
[3	-1	6]	(1	3	0)	(5	-9	-4)	5.090	1.038	4.91	75.1	54.3
[6	-2	3]	(1	3	0)	(5	9	-4)	5.090	1.038	4.91	51.7	89.1
[6	-2	-7]	(1	3	0)	(2	-8	4)	5.090	1.035	4.92	80.5	52.5
[6	-2	1]	(1	3	0)	(2	8	4)	5.090	1.035	4.92	52.2	82.0
[15	-5	14]	(1	3	0)	(4	-2	-5)	5.090	1.033	4.93	89.9	77.7
[3	-1	2]	(1	3	0)	(4	2	-5)	5.090	1.033	4.93	78.9	84.7
[6	-2	13]	(1	3	0)	(-7	5	4)	5.090	1.032	4.93	86.9	51.5
[3	-1	4]	(1	3	0)	(7	5	-4)	5.090	1.032	4.93	57.4	67.9
[3	-1	0]	(1	3	0)	(1	3	-5)	5.090	1.031	4.94	86.1	77.6
[15	-5	6]	(1	3	0)	(1	-3	-5)	5.090	1.031	4.94	77.2	88.2
[15	-5	2]	(1	3	0)	(2	4	-5)	5.090	1.029	4.95	80.0	81.1
[3	-1	2]	(1	3	0)	(2	-4	-5)	5.090	1.029	4.95	77.7	84.7
[6	-2	5]	(1	3	0)	(-6	-8	4)	5.090	1.023	4.98	51.7	80.3
[6	-2	-7]	(1	3	0)	(4	-2	4)	5.090	1.019	5.00	76.2	52.5
[6	-2	-5]	(1	3	0)	(4	2	4)	5.090	1.019	5.00	64.5	58.6
[15	-5	-2]	(1	3	0)	(0	-2	5)	5.090	1.017	5.00	87.8	74.3
[15	-5	2]	(1	3	0)	(0	2	5)	5.090	1.017	5.00	76.8	81.1
[9	-3	-14]	(1	3	0)	(6	4	3)	5.090	1.014	5.02	52.4	46.5
[15	-5	16]	(1	3	0)	(4	-4	-5)	5.090	1.013	5.02	84.5	74.3
[15	-5	8]	(1	3	0)	(4	4	-5)	5.090	1.013	5.02	73.5	88.2
[15	-5	16]	(1	3	0)	(-5	1	5)	5.090	1.013	5.03	84.1	74.3
[15	-5	14]	(1	3	0)	(5	1	-5)	5.090	1.013	5.03	78.6	77.7
[15	-5	14]	(1	3	0)	(3	-5	-5)	5.090	1.012	5.03	78.5	77.7
[15	-5	4]	(1	3	0)	(3	5	-5)	5.090	1.012	5.03	74.0	84.6
[3	-1	-4]	(1	3	0)	(3	-7	4)	5.090	1.008	5.05	86.8	49.8
[6	-2	-1]	(1	3	0)	(3	7	4)	5.090	1.008	5.05	52.7	73.4

Winchite (130) 295 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** ***α*** **90°** ***β*** **104.54°** ***γ*** **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	*θ*°	ZA^C°
[15	-5	-2]	(1	3	0)	(1	5	-5)	5.090	1.005	5.07	80.8	74.3
[15	-5	8]	(1	3	0)	(1	-5	-5)	5.090	1.005	5.07	71.9	88.2
[9	-3	16]	(1	3	0)	(8	8	-3)	5.090	1.002	5.08	41.8	58.4
[6	-2	13]	(1	3	0)	(-8	2	4)	5.090	1.001	5.08	75.6	51.5
[6	-2	11]	(1	3	0)	(8	2	-4)	5.090	1.001	5.08	64.1	57.4
[15	-5	18]	(1	3	0)	(-5	3	5)	5.090	1.000	5.09	89.5	71.0
[15	-5	12]	(1	3	0)	(5	3	-5)	5.090	1.000	5.09	73.2	81.1

Winchite (150) 285 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[5	-1	0]	(1	5	0)	(0	0	1)	3.375	5.119	0.66	84.9	76.4
[5	-1	6]	(1	5	0)	(-1	1	1)	3.375	4.882	0.69	81.0	69.2
[5	-1	4]	(1	5	0)	(-1	-1	1)	3.375	4.882	0.69	69.5	80.2
[5	-1	-2]	(1	5	0)	(0	2	-1)	3.375	4.451	0.76	67.4	65.8
[5	-1	2]	(1	5	0)	(0	2	1)	3.375	4.451	0.76	57.4	88.0
[5	-1	10]	(1	5	0)	(2	0	-1)	3.375	4.031	0.84	76.8	51.5
[5	-1	-6]	(1	5	0)	(1	-1	1)	3.375	4.000	0.84	89.4	49.1
[5	-1	-4]	(1	5	0)	(1	1	1)	3.375	4.000	0.84	64.8	56.7
[5	-1	2]	(1	5	0)	(-1	-3	1)	3.375	3.876	0.87	47.2	88.0
[5	-1	8]	(1	5	0)	(2	2	-1)	3.375	3.680	0.92	53.8	59.6
[5	-1	-2]	(1	5	0)	(1	3	1)	3.375	3.388	1.00	44.6	65.8
[5	-1	-4]	(1	5	0)	(0	4	-1)	3.375	3.383	1.00	50.0	56.7
[5	-1	4]	(1	5	0)	(0	4	1)	3.375	3.383	1.00	40.5	80.2
[5	-1	6]	(1	5	0)	(2	4	-1)	3.375	3.005	1.12	37.4	69.2
[5	-1	10]	(1	5	0)	(-1	5	1)	3.375	2.939	1.15	45.2	51.5
[5	-1	0]	(1	5	0)	(1	5	1)	3.375	2.708	1.25	31.8	76.4
[5	-1	3]	(1	5	0)	(-1	1	2)	3.375	2.616	1.29	82.6	86.1
[5	-1	2]	(1	5	0)	(-1	-1	2)	3.375	2.616	1.29	81.8	88.0
[5	-1	-6]	(1	5	0)	(0	6	-1)	3.375	2.592	1.30	40.4	49.1
[5	-1	6]	(1	5	0)	(0	6	1)	3.375	2.592	1.30	31.6	69.2
[5	-1	-6]	(1	5	0)	(2	4	1)	3.375	2.566	1.32	39.9	49.1
[5	-1	5]	(1	5	0)	(2	0	-2)	3.375	2.536	1.33	84.3	74.6
[5	-1	-1]	(1	5	0)	(0	-2	2)	3.375	2.462	1.37	80.2	70.9
[5	-1	1]	(1	5	0)	(0	2	2)	3.375	2.462	1.37	70.1	82.1
[5	-1	4]	(1	5	0)	(1	-3	-2)	3.375	2.420	1.39	68.2	80.2
[5	-1	1]	(1	5	0)	(1	3	-2)	3.375	2.420	1.39	67.5	82.1
[5	-1	4]	(1	5	0)	(-2	-6	1)	3.375	2.409	1.40	27.5	80.2
[5	-1	10]	(1	5	0)	(3	5	-1)	3.375	2.337	1.44	34.4	51.5
[5	-1	-3]	(1	5	0)	(-1	1	-2)	3.375	2.311	1.46	87.4	61.0
[5	-1	-2]	(1	5	0)	(1	1	2)	3.375	2.311	1.46	73.4	65.8
[5	-1	-2]	(1	5	0)	(-1	-7	1)	3.375	2.297	1.47	28.4	65.8
[5	-1	8]	(1	5	0)	(3	-1	-2)	3.375	2.277	1.48	86.8	59.6
[5	-1	7]	(1	5	0)	(-3	-1	2)	3.375	2.277	1.48	73.0	64.2
[5	-1	7]	(1	5	0)	(-2	4	2)	3.375	2.210	1.53	68.2	64.2
[5	-1	3]	(1	5	0)	(-2	-4	2)	3.375	2.210	1.53	56.9	86.1
[5	-1	2]	(1	5	0)	(1	7	1)	3.375	2.181	1.55	24.4	88.0
[5	-1	-4]	(1	5	0)	(1	-3	2)	3.375	2.172	1.55	79.5	56.7
[5	-1	-1]	(1	5	0)	(1	3	2)	3.375	2.172	1.55	60.4	70.9
[5	-1	-4]	(1	5	0)	(2	6	1)	3.375	2.165	1.56	29.3	56.7
[5	-1	9]	(1	5	0)	(-3	3	2)	3.375	2.144	1.57	80.2	55.4
[5	-1	6]	(1	5	0)	(-3	-3	2)	3.375	2.144	1.57	60.2	69.2
[5	-1	5]	(1	5	0)	(-1	5	2)	3.375	2.132	1.58	56.8	74.6
[5	-1	0]	(1	5	0)	(-1	-5	2)	3.375	2.132	1.58	56.1	76.4
[5	-1	8]	(1	5	0)	(0	8	1)	3.375	2.063	1.64	26.9	59.6
[5	-1	-5]	(1	5	0)	(2	0	2)	3.375	2.051	1.65	77.1	52.7
[5	-1	2]	(1	5	0)	(2	8	-1)	3.375	1.967	1.72	21.9	88.0
[5	-1	11]	(1	5	0)	(-4	2	2)	3.375	1.967	1.72	88.9	48.1
[5	-1	9]	(1	5	0)	(4	2	-2)	3.375	1.967	1.72	64.7	55.4

Winchite (150) 285 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[5	-1	-5]	(1	5	0)	(1	-5	2)	3.375	1.957	1.72	68.5	52.7
[5	-1	0]	(1	5	0)	(1	5	2)	3.375	1.957	1.72	49.6	76.4
[5	-1	-3]	(1	5	0)	(0	-6	2)	3.375	1.949	1.73	57.4	61.0
[5	-1	3]	(1	5	0)	(0	6	2)	3.375	1.949	1.73	47.6	86.1
[5	-1	10]	(1	5	0)	(3	-5	-2)	3.375	1.936	1.74	69.3	51.5
[5	-1	5]	(1	5	0)	(3	5	-2)	3.375	1.936	1.74	49.4	74.6
[5	-1	-7]	(1	5	0)	(2	-4	2)	3.375	1.867	1.81	79.4	45.9
[5	-1	-3]	(1	5	0)	(2	4	2)	3.375	1.867	1.81	53.8	61.0
[5	-1	-4]	(1	5	0)	(-1	-9	1)	3.375	1.863	1.81	24.9	56.7
[5	-1	6]	(1	5	0)	(-1	7	2)	3.375	1.845	1.83	48.3	69.2
[5	-1	-1]	(1	5	0)	(-1	-7	2)	3.375	1.845	1.83	47.6	70.9
[5	-1	-2]	(1	5	0)	(2	8	1)	3.375	1.827	1.85	22.3	65.8
[5	-1	4]	(1	5	0)	(1	9	1)	3.375	1.800	1.87	20.2	80.2
[5	-1	-7]	(1	5	0)	(3	1	2)	3.375	1.778	1.90	69.4	45.9
[15	-3	10]	(1	5	0)	(2	0	-3)	3.375	1.752	1.93	87.8	84.1
[15	-3	4]	(1	5	0)	(-1	-1	3)	3.375	1.749	1.93	86.3	84.0
[5	-1	2]	(1	5	0)	(-1	1	3)	3.375	1.749	1.93	83.3	88.0
[5	-1	-6]	(1	5	0)	(1	-7	2)	3.375	1.728	1.95	59.8	49.1
[5	-1	1]	(1	5	0)	(1	7	2)	3.375	1.728	1.95	41.3	82.1
[5	-1	4]	(1	5	0)	(2	-2	-3)	3.375	1.720	1.96	81.9	80.2
[15	-3	8]	(1	5	0)	(2	2	-3)	3.375	1.720	1.96	77.5	88.1
[5	-1	11]	(1	5	0)	(3	-7	-2)	3.375	1.714	1.97	60.6	48.1
[5	-1	4]	(1	5	0)	(3	7	-2)	3.375	1.714	1.97	41.1	80.2
[5	-1	-6]	(1	5	0)	(3	3	2)	3.375	1.713	1.97	58.9	49.1
[15	-3	2]	(1	5	0)	(1	3	-3)	3.375	1.687	2.00	76.3	80.2
[15	-3	8]	(1	5	0)	(1	-3	-3)	3.375	1.687	2.00	73.3	88.1
[5	-1	11]	(1	5	0)	(5	3	-2)	3.375	1.685	2.00	58.9	48.1
[5	-1	9]	(1	5	0)	(-2	8	2)	3.375	1.685	2.00	50.8	55.4
[5	-1	1]	(1	5	0)	(-2	-8	2)	3.375	1.685	2.00	40.0	82.1
[15	-3	16]	(1	5	0)	(3	-1	-3)	3.375	1.683	2.00	89.3	72.8
[15	-3	14]	(1	5	0)	(-3	-1	3)	3.375	1.683	2.00	79.2	76.4
[5	-1	6]	(1	5	0)	(3	9	-1)	3.375	1.678	2.01	19.8	69.2
[15	-3	-2]	(1	5	0)	(0	-2	3)	3.375	1.676	2.01	85.0	72.7
[15	-3	2]	(1	5	0)	(0	2	3)	3.375	1.676	2.01	74.9	80.2
[5	-1	7]	(1	5	0)	(-4	-6	2)	3.375	1.674	2.02	44.7	64.2
[15	-3	14]	(1	5	0)	(-2	4	3)	3.375	1.633	2.07	72.4	76.4
[5	-1	2]	(1	5	0)	(-2	-4	3)	3.375	1.633	2.07	68.0	88.0
[5	-1	-2]	(1	5	0)	(1	-1	3)	3.375	1.605	2.10	86.6	65.8
[15	-3	-4]	(1	5	0)	(1	1	3)	3.375	1.605	2.10	76.9	69.1
[5	-1	-5]	(1	5	0)	(3	5	2)	3.375	1.601	2.11	49.5	52.7
[5	-1	7]	(1	5	0)	(1	-9	-2)	3.375	1.597	2.11	42.1	64.2
[5	-1	-2]	(1	5	0)	(1	9	-2)	3.375	1.597	2.11	41.5	65.8
[15	-3	-4]	(1	5	0)	(0	-4	3)	3.375	1.596	2.11	75.6	69.1
[15	-3	4]	(1	5	0)	(0	4	3)	3.375	1.596	2.11	65.5	84.0
[15	-3	20]	(1	5	0)	(-4	0	3)	3.375	1.589	2.12	81.2	65.8
[5	-1	0]	(1	5	0)	(1	5	-3)	3.375	1.580	2.14	67.3	76.4
[15	-3	10]	(1	5	0)	(1	-5	-3)	3.375	1.580	2.14	64.3	84.1
[5	-1	10]	(1	5	0)	(5	5	-2)	3.375	1.578	2.14	49.7	51.5

Winchite (150) 285 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** ***α*** **90°** ***β*** **104.54°** ***γ*** **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[15	-3	22]	(1	5	0)	(4	-2	-3)	3.375	1.565	2.16	89.3	62.6
[5	-1	6]	(1	5	0)	(4	2	-3)	3.375	1.565	2.16	71.8	69.2
[15	-3	-8]	(1	5	0)	(1	-3	3)	3.375	1.556	2.17	84.1	62.6
[15	-3	-2]	(1	5	0)	(1	3	3)	3.375	1.556	2.17	67.6	72.7
[5	-1	-6]	(1	5	0)	(3	9	1)	3.375	1.549	2.18	22.8	49.1
[15	-3	20]	(1	5	0)	(-3	5	3)	3.375	1.531	2.20	72.2	65.8
[15	-3	10]	(1	5	0)	(3	5	-3)	3.375	1.531	2.20	60.8	84.1
[5	-1	-7]	(1	5	0)	(1	-9	2)	3.375	1.519	2.22	53.1	45.9
[5	-1	2]	(1	5	0)	(1	9	2)	3.375	1.519	2.22	35.1	88.0
[5	-1	-1]	(1	5	0)	(2	8	2)	3.375	1.517	2.22	37.4	70.9
[15	-3	16]	(1	5	0)	(-2	6	3)	3.375	1.514	2.23	64.0	72.8
[15	-3	4]	(1	5	0)	(2	6	-3)	3.375	1.514	2.23	59.7	84.0
[5	-1	3]	(1	5	0)	(3	9	-2)	3.375	1.509	2.24	34.9	86.1
[5	-1	8]	(1	5	0)	(-4	4	3)	3.375	1.499	2.25	80.4	59.6
[15	-3	16]	(1	5	0)	(-4	-4	3)	3.375	1.499	2.25	62.9	72.8
[15	-3	-10]	(1	5	0)	(2	0	3)	3.375	1.492	2.26	79.1	59.5
[5	-1	-4]	(1	5	0)	(2	-2	3)	3.375	1.472	2.29	88.1	56.7
[15	-3	-8]	(1	5	0)	(2	2	3)	3.375	1.472	2.29	70.2	62.6
[15	-3	-10]	(1	5	0)	(-1	5	-3)	3.375	1.471	2.29	75.5	59.5
[5	-1	0]	(1	5	0)	(1	5	3)	3.375	1.471	2.29	59.2	76.4
[5	-1	-4]	(1	5	0)	(3	7	2)	3.375	1.468	2.30	41.6	56.7
[15	-3	26]	(1	5	0)	(-5	1	3)	3.375	1.463	2.31	83.2	56.7
[5	-1	8]	(1	5	0)	(5	1	-3)	3.375	1.463	2.31	74.3	59.6
[15	-3	-2]	(1	5	0)	(1	7	-3)	3.375	1.452	2.32	59.6	72.7
[5	-1	4]	(1	5	0)	(1	-7	-3)	3.375	1.452	2.32	56.7	80.2
[5	-1	9]	(1	5	0)	(5	7	-2)	3.375	1.451	2.33	41.8	55.4
[15	-3	28]	(1	5	0)	(5	-3	-3)	3.375	1.426	2.37	88.2	54.0
[15	-3	22]	(1	5	0)	(5	3	-3)	3.375	1.426	2.37	65.7	62.6
[15	-3	-14]	(1	5	0)	(2	-4	3)	3.375	1.417	2.38	83.4	54.0
[5	-1	-2]	(1	5	0)	(2	4	3)	3.375	1.417	2.38	61.8	65.8
[15	-3	22]	(1	5	0)	(-3	7	3)	3.375	1.413	2.39	64.6	62.6
[15	-3	8]	(1	5	0)	(-3	-7	3)	3.375	1.413	2.39	53.4	88.1
[15	-3	26]	(1	5	0)	(-4	6	3)	3.375	1.405	2.40	72.4	56.7
[15	-3	14]	(1	5	0)	(4	6	-3)	3.375	1.405	2.40	55.1	76.4
[5	-1	-7]	(1	5	0)	(4	6	2)	3.375	1.385	2.44	46.8	45.9
[5	-1	6]	(1	5	0)	(-2	8	3)	3.375	1.383	2.44	57.1	69.2
[15	-3	2]	(1	5	0)	(-2	-8	3)	3.375	1.383	2.44	52.8	80.2
[5	-1	-4]	(1	5	0)	(-1	7	-3)	3.375	1.366	2.47	68.0	56.7
[15	-3	2]	(1	5	0)	(1	7	3)	3.375	1.366	2.47	51.9	80.2
[15	-3	-16]	(1	5	0)	(3	-1	3)	3.375	1.363	2.48	81.3	51.5
[15	-3	-14]	(1	5	0)	(3	1	3)	3.375	1.363	2.48	72.9	54.0
[15	-3	-8]	(1	5	0)	(0	8	-3)	3.375	1.360	2.48	60.4	62.6
[15	-3	8]	(1	5	0)	(0	8	3)	3.375	1.360	2.48	50.6	88.1
[5	-1	10]	(1	5	0)	(5	-5	-3)	3.375	1.360	2.48	80.1	51.5
[15	-3	20]	(1	5	0)	(5	5	-3)	3.375	1.360	2.48	57.7	65.8
[15	-3	-4]	(1	5	0)	(2	6	3)	3.375	1.336	2.53	54.2	69.1
[5	-1	-3]	(1	5	0)	(3	9	2)	3.375	1.333	2.53	35.2	61.0
[15	-3	32]	(1	5	0)	(-6	2	3)	3.375	1.329	2.54	84.9	49.2

Winchite (150) 285 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

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[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[15	-3	28]	(1	5	0)	(6	2	-3)	3.375	1.329	2.54	68.6	54.0
[10	-2	5]	(1	5	0)	(-2	0	4)	3.375	1.322	2.55	89.6	89.0
[15	-3	-4]	(1	5	0)	(1	9	-3)	3.375	1.321	2.55	53.3	69.1
[15	-3	14]	(1	5	0)	(-1	9	3)	3.375	1.321	2.55	50.5	76.4
[5	-1	8]	(1	5	0)	(-5	-9	2)	3.375	1.320	2.56	35.4	59.6
[5	-1	1]	(1	5	0)	(1	1	-4)	3.375	1.309	2.58	88.5	82.1
[10	-2	3]	(1	5	0)	(1	-1	-4)	3.375	1.309	2.58	83.7	85.0
[5	-1	4]	(1	5	0)	(-3	1	4)	3.375	1.303	2.59	89.3	80.2
[10	-2	7]	(1	5	0)	(3	1	-4)	3.375	1.303	2.59	83.0	83.1
[15	-3	28]	(1	5	0)	(4	-8	-3)	3.375	1.299	2.60	65.5	54.0
[5	-1	4]	(1	5	0)	(4	8	-3)	3.375	1.299	2.60	48.4	80.2
[15	-3	34]	(1	5	0)	(6	-4	-3)	3.375	1.288	2.62	87.3	47.0
[15	-3	26]	(1	5	0)	(6	4	-3)	3.375	1.288	2.62	60.9	56.7
[10	-2	1]	(1	5	0)	(1	3	-4)	3.375	1.282	2.63	80.9	79.2
[5	-1	2]	(1	5	0)	(1	-3	-4)	3.375	1.282	2.63	76.1	88.0
[15	-3	-20]	(1	5	0)	(-3	5	-3)	3.375	1.278	2.64	82.9	47.0
[15	-3	-10]	(1	5	0)	(3	5	3)	3.375	1.278	2.64	57.3	59.5
[10	-2	9]	(1	5	0)	(-3	3	4)	3.375	1.276	2.64	81.6	77.4
[5	-1	3]	(1	5	0)	(-3	-3	4)	3.375	1.276	2.64	75.4	86.1
[15	-3	32]	(1	5	0)	(-5	7	3)	3.375	1.275	2.65	73.0	49.2
[5	-1	6]	(1	5	0)	(-5	-7	3)	3.375	1.275	2.65	50.7	69.2
[10	-2	7]	(1	5	0)	(-2	4	4)	3.375	1.268	2.66	75.1	83.1
[10	-2	3]	(1	5	0)	(-2	-4	4)	3.375	1.268	2.66	74.4	85.0
[5	-1	11]	(1	5	0)	(6	8	-2)	3.375	1.268	2.66	40.1	48.1
[10	-2	1]	(1	5	0)	(0	2	4)	3.375	1.267	2.66	77.3	79.2
[10	-2	11]	(1	5	0)	(-4	2	4)	3.375	1.256	2.69	88.2	71.9
[10	-2	9]	(1	5	0)	(-4	-2	4)	3.375	1.256	2.69	76.7	77.4
[15	-3	-14]	(1	5	0)	(-1	9	-3)	3.375	1.255	2.69	61.7	54.0
[15	-3	4]	(1	5	0)	(1	9	3)	3.375	1.255	2.69	45.7	84.0
[15	-3	-20]	(1	5	0)	(4	0	3)	3.375	1.247	2.71	75.5	47.0
[5	-1	-6]	(1	5	0)	(2	-8	3)	3.375	1.244	2.71	68.9	49.1
[15	-3	-2]	(1	5	0)	(2	8	3)	3.375	1.244	2.71	47.7	72.7
[5	-1	-6]	(1	5	0)	(4	2	3)	3.375	1.236	2.73	67.9	49.1
[5	-1	0]	(1	5	0)	(1	5	-4)	3.375	1.233	2.74	73.7	76.4
[10	-2	5]	(1	5	0)	(1	-5	-4)	3.375	1.233	2.74	68.9	89.0
[5	-1	5]	(1	5	0)	(-3	5	4)	3.375	1.228	2.75	74.5	74.6
[10	-2	5]	(1	5	0)	(-3	-5	4)	3.375	1.228	2.75	68.3	89.0
[5	-1	-1]	(1	5	0)	(1	1	4)	3.375	1.225	2.75	78.8	70.9
[15	-3	34]	(1	5	0)	(7	1	-3)	3.375	1.223	2.76	71.5	47.0
[10	-2	13]	(1	5	0)	(-5	1	4)	3.375	1.210	2.79	85.6	66.7
[5	-1	6]	(1	5	0)	(5	1	-4)	3.375	1.210	2.79	78.3	69.2
[15	-3	-8]	(1	5	0)	(3	7	3)	3.375	1.208	2.79	50.5	62.6
[5	-1	-2]	(1	5	0)	(-1	3	-4)	3.375	1.203	2.80	86.6	65.8
[10	-2	-1]	(1	5	0)	(1	3	4)	3.375	1.203	2.80	71.6	73.6
[15	-3	-16]	(1	5	0)	(4	4	3)	3.375	1.202	2.81	60.6	51.5
[15	-3	32]	(1	5	0)	(7	3	-3)	3.375	1.201	2.81	64.2	49.2
[5	-1	7]	(1	5	0)	(5	-3	-4)	3.375	1.189	2.84	87.3	64.2
[10	-2	11]	(1	5	0)	(5	3	-4)	3.375	1.189	2.84	71.2	71.9

Winchite (150) 285 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[15	-3	34]	(1	5	0)	(5	-9	-3)	3.375	1.184	2.85	66.7	47.0
[15	-3	16]	(1	5	0)	(5	9	-3)	3.375	1.184	2.85	44.7	72.8
[10	-2	-3]	(1	5	0)	(0	-6	4)	3.375	1.177	2.87	73.5	68.3
[10	-2	3]	(1	5	0)	(0	6	4)	3.375	1.177	2.87	63.4	85.0
[10	-2	-1]	(1	5	0)	(-1	-7	4)	3.375	1.169	2.89	67.2	73.6
[5	-1	3]	(1	5	0)	(-1	7	4)	3.375	1.169	2.89	62.5	86.1
[10	-2	13]	(1	5	0)	(4	-6	-4)	3.375	1.168	2.89	74.3	66.7
[10	-2	7]	(1	5	0)	(4	6	-4)	3.375	1.168	2.89	62.9	83.1
[10	-2	11]	(1	5	0)	(3	-7	-4)	3.375	1.165	2.90	68.0	71.9
[5	-1	2]	(1	5	0)	(3	7	-4)	3.375	1.165	2.90	61.9	88.0
[10	-2	-5]	(1	5	0)	(2	0	4)	3.375	1.165	2.90	80.4	63.3
[10	-2	-5]	(1	5	0)	(-1	5	-4)	3.375	1.163	2.90	79.8	63.3
[5	-1	0]	(1	5	0)	(1	5	4)	3.375	1.163	2.90	64.8	76.4
[5	-1	10]	(1	5	0)	(7	5	-3)	3.375	1.160	2.91	57.2	51.5
[15	-3	22]	(1	5	0)	(-6	-8	3)	3.375	1.154	2.92	47.5	62.6
[15	-3	-14]	(1	5	0)	(4	6	3)	3.375	1.152	2.93	53.9	54.0
[10	-2	15]	(1	5	0)	(5	-5	-4)	3.375	1.150	2.94	80.5	61.8
[5	-1	5]	(1	5	0)	(5	5	-4)	3.375	1.150	2.94	64.4	74.6
[10	-2	15]	(1	5	0)	(-6	0	4)	3.375	1.147	2.94	79.9	61.8
[10	-2	9]	(1	5	0)	(-2	8	4)	3.375	1.140	2.96	62.1	77.4
[10	-2	1]	(1	5	0)	(-2	-8	4)	3.375	1.140	2.96	61.4	79.2
[10	-2	-7]	(1	5	0)	(-2	4	-4)	3.375	1.128	2.99	85.9	58.8
[10	-2	-3]	(1	5	0)	(2	4	4)	3.375	1.128	2.99	66.7	68.3
[10	-2	17]	(1	5	0)	(-6	4	4)	3.375	1.112	3.03	86.5	57.4
[10	-2	13]	(1	5	0)	(-6	-4	4)	3.375	1.112	3.03	66.4	66.7
[5	-1	-3]	(1	5	0)	(-1	7	-4)	3.375	1.109	3.04	73.5	61.0
[10	-2	1]	(1	5	0)	(1	7	4)	3.375	1.109	3.04	58.6	79.2
[15	-3	28]	(1	5	0)	(7	7	-3)	3.375	1.107	3.05	50.8	54.0
[5	-1	-1]	(1	5	0)	(-1	-9	4)	3.375	1.098	3.07	61.5	70.9
[10	-2	7]	(1	5	0)	(-1	9	4)	3.375	1.098	3.07	56.8	83.1
[5	-1	8]	(1	5	0)	(5	-7	-4)	3.375	1.097	3.08	74.3	59.6
[10	-2	9]	(1	5	0)	(5	7	-4)	3.375	1.097	3.08	58.3	77.4
[5	-1	6]	(1	5	0)	(-3	9	4)	3.375	1.094	3.08	62.3	69.2
[10	-2	3]	(1	5	0)	(3	9	-4)	3.375	1.094	3.08	56.2	85.0
[5	-1	-4]	(1	5	0)	(-3	1	-4)	3.375	1.094	3.09	81.9	56.7
[10	-2	-7]	(1	5	0)	(3	1	4)	3.375	1.094	3.09	75.3	58.8
[5	-1	-4]	(1	5	0)	(4	8	3)	3.375	1.091	3.09	47.8	56.7
[15	-3	-20]	(1	5	0)	(5	5	3)	3.375	1.085	3.11	57.4	47.0
[10	-2	-9]	(1	5	0)	(-3	3	-4)	3.375	1.078	3.13	88.5	54.7
[5	-1	-3]	(1	5	0)	(3	3	4)	3.375	1.078	3.13	68.8	61.0
[5	-1	9]	(1	5	0)	(-7	1	4)	3.375	1.076	3.14	81.4	55.4
[10	-2	17]	(1	5	0)	(7	1	-4)	3.375	1.076	3.14	74.9	57.4
[10	-2	19]	(1	5	0)	(7	-3	-4)	3.375	1.061	3.18	87.9	53.4
[5	-1	8]	(1	5	0)	(-7	-3	4)	3.375	1.061	3.18	68.5	59.6
[5	-1	2]	(1	5	0)	(-2	0	5)	3.375	1.057	3.19	89.2	88.0
[25	-5	16]	(1	5	0)	(3	-1	-5)	3.375	1.053	3.20	88.3	84.9
[25	-5	14]	(1	5	0)	(3	1	-5)	3.375	1.053	3.20	85.4	87.3
[25	-5	8]	(1	5	0)	(-2	-2	5)	3.375	1.050	3.21	84.5	85.6

Winchite (150) 285 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** ***α*** **90°** ***β*** **104.54°** ***γ*** **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[25	-5	12]	(1	5	0)	(-2	2	5)	3.375	1.050	3.21	83.0	89.6
[5	-1	-5]	(1	5	0)	(3	-5	4)	3.375	1.048	3.22	85.3	52.7
[10	-2	-5]	(1	5	0)	(3	5	4)	3.375	1.048	3.22	62.5	63.3
[15	-3	34]	(1	5	0)	(-8	-6	3)	3.375	1.048	3.22	54.4	47.0
[10	-2	-7]	(1	5	0)	(-1	9	-4)	3.375	1.047	3.22	67.8	58.8
[5	-1	1]	(1	5	0)	(1	9	4)	3.375	1.047	3.22	53.1	82.1
[15	-3	26]	(1	5	0)	(7	9	-3)	3.375	1.045	3.23	45.2	56.7
[25	-5	4]	(1	5	0)	(-1	-1	5)	3.375	1.044	3.23	89.9	80.9
[25	-5	6]	(1	5	0)	(-1	1	5)	3.375	1.044	3.23	83.9	83.3
[5	-1	-6]	(1	5	0)	(5	7	3)	3.375	1.041	3.24	51.3	49.1
[5	-1	4]	(1	5	0)	(-4	0	5)	3.375	1.040	3.24	86.3	80.2
[25	-5	18]	(1	5	0)	(-3	3	5)	3.375	1.039	3.25	82.2	82.6
[25	-5	12]	(1	5	0)	(-3	-3	5)	3.375	1.039	3.25	79.2	89.6
[10	-2	17]	(1	5	0)	(-5	9	4)	3.375	1.038	3.25	68.6	57.4
[5	-1	4]	(1	5	0)	(-5	-9	4)	3.375	1.038	3.25	52.8	80.2
[10	-2	-9]	(1	5	0)	(-2	8	-4)	3.375	1.035	3.26	73.7	54.7
[10	-2	-1]	(1	5	0)	(2	8	4)	3.375	1.035	3.26	54.7	73.6
[25	-5	22]	(1	5	0)	(-4	2	5)	3.375	1.033	3.27	87.5	77.9
[25	-5	18]	(1	5	0)	(4	2	-5)	3.375	1.033	3.27	80.2	82.6
[5	-1	10]	(1	5	0)	(7	-5	-4)	3.375	1.032	3.27	85.9	51.5
[10	-2	15]	(1	5	0)	(7	5	-4)	3.375	1.032	3.27	62.3	61.8
[25	-5	2]	(1	5	0)	(-1	-3	5)	3.375	1.031	3.27	83.7	78.6
[25	-5	8]	(1	5	0)	(-1	3	5)	3.375	1.031	3.27	77.8	85.6
[25	-5	6]	(1	5	0)	(-2	-4	5)	3.375	1.029	3.28	78.4	83.3
[25	-5	14]	(1	5	0)	(-2	4	5)	3.375	1.029	3.28	76.9	87.3
[10	-2	11]	(1	5	0)	(-6	-8	4)	3.375	1.023	3.30	54.5	71.9
[10	-2	-11]	(1	5	0)	(4	-2	4)	3.375	1.019	3.31	83.3	50.9
[10	-2	-9]	(1	5	0)	(4	2	4)	3.375	1.019	3.31	70.9	54.7
[25	-5	-2]	(1	5	0)	(0	2	-5)	3.375	1.017	3.32	89.0	74.1
[25	-5	2]	(1	5	0)	(0	2	5)	3.375	1.017	3.32	78.8	78.6
[25	-5	24]	(1	5	0)	(-4	4	5)	3.375	1.013	3.33	81.5	75.7
[25	-5	16]	(1	5	0)	(4	4	-5)	3.375	1.013	3.33	74.2	84.9
[25	-5	26]	(1	5	0)	(-5	1	5)	3.375	1.013	3.33	87.3	73.5
[25	-5	24]	(1	5	0)	(5	1	-5)	3.375	1.013	3.33	81.2	75.7
[5	-1	4]	(1	5	0)	(3	-5	-5)	3.375	1.012	3.33	76.2	80.2
[5	-1	2]	(1	5	0)	(3	5	-5)	3.375	1.012	3.33	73.3	88.0
[10	-2	-11]	(1	5	0)	(3	-7	4)	3.375	1.008	3.35	79.4	50.9
[5	-1	-2]	(1	5	0)	(3	7	4)	3.375	1.008	3.35	56.8	65.8
[5	-1	0]	(1	5	0)	(-1	-5	5)	3.375	1.005	3.36	77.8	76.4
[5	-1	2]	(1	5	0)	(-1	5	5)	3.375	1.005	3.36	71.9	88.0
[15	-3	32]	(1	5	0)	(-8	-8	3)	3.375	1.002	3.37	48.7	49.2
[10	-2	21]	(1	5	0)	(8	-2	-4)	3.375	1.001	3.37	82.9	49.8
[10	-2	19]	(1	5	0)	(8	2	-4)	3.375	1.001	3.37	70.6	53.4
[25	-5	28]	(1	5	0)	(5	-3	-5)	3.375	1.000	3.37	86.7	71.3
[25	-5	22]	(1	5	0)	(5	3	-5)	3.375	1.000	3.37	75.3	77.9

Winchite (170) 283 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[7	-1	0]	(1	7	0)	(0	0	1)	2.487	5.119	0.49	86.2	75.9
[7	-1	8]	(1	7	0)	(1	-1	-1)	2.487	4.882	0.51	79.0	70.1
[7	-1	6]	(1	7	0)	(1	1	-1)	2.487	4.882	0.51	70.6	78.2
[7	-1	2]	(1	7	0)	(0	2	1)	2.487	4.451	0.56	57.8	84.4
[7	-1	14]	(1	7	0)	(2	0	-1)	2.487	4.031	0.62	80.3	50.7
[7	-1	-8]	(1	7	0)	(-1	1	-1)	2.487	4.000	0.62	86.9	49.2
[7	-1	-6]	(1	7	0)	(1	1	1)	2.487	4.000	0.62	68.0	54.7
[7	-1	4]	(1	7	0)	(-1	-3	1)	2.487	3.876	0.64	47.2	86.8
[7	-1	16]	(1	7	0)	(-2	2	1)	2.487	3.680	0.68	76.1	45.8
[7	-1	12]	(1	7	0)	(-2	-2	1)	2.487	3.680	0.68	56.8	56.3
[7	-1	-4]	(1	7	0)	(1	3	1)	2.487	3.388	0.73	47.1	60.9
[7	-1	-4]	(1	7	0)	(0	-4	1)	2.487	3.383	0.74	47.1	60.9
[7	-1	4]	(1	7	0)	(0	4	1)	2.487	3.383	0.74	39.8	86.8
[7	-1	10]	(1	7	0)	(-2	-4	1)	2.487	3.005	0.83	39.7	62.8
[7	-1	12]	(1	7	0)	(-1	5	1)	2.487	2.939	0.85	41.9	56.3
[7	-1	2]	(1	7	0)	(-1	-5	1)	2.487	2.939	0.85	33.9	84.4
[7	-1	-2]	(1	7	0)	(1	5	1)	2.487	2.708	0.92	33.5	68.0
[7	-1	4]	(1	7	0)	(1	-1	-2)	2.487	2.616	0.95	82.2	86.8
[7	-1	3]	(1	7	0)	(1	1	-2)	2.487	2.616	0.95	81.7	88.8
[7	-1	-6]	(1	7	0)	(0	-6	1)	2.487	2.592	0.96	36.9	54.7
[7	-1	6]	(1	7	0)	(0	6	1)	2.487	2.592	0.96	30.0	78.2
[7	-1	7]	(1	7	0)	(2	0	-2)	2.487	2.536	0.98	85.8	74.1
[7	-1	-1]	(1	7	0)	(0	-2	2)	2.487	2.462	1.01	78.4	71.9
[7	-1	1]	(1	7	0)	(0	2	2)	2.487	2.462	1.01	70.9	80.1
[7	-1	5]	(1	7	0)	(1	-3	-2)	2.487	2.420	1.03	67.4	82.5
[7	-1	2]	(1	7	0)	(1	3	-2)	2.487	2.420	1.03	66.9	84.4
[7	-1	8]	(1	7	0)	(2	6	-1)	2.487	2.409	1.03	29.0	70.1
[7	-1	16]	(1	7	0)	(-3	-5	1)	2.487	2.337	1.06	38.1	45.8
[7	-1	-4]	(1	7	0)	(-1	1	-2)	2.487	2.311	1.08	89.9	60.9
[7	-1	-3]	(1	7	0)	(1	1	2)	2.487	2.311	1.08	75.8	64.4
[7	-1	14]	(1	7	0)	(-1	7	1)	2.487	2.297	1.08	34.2	50.7
[7	-1	11]	(1	7	0)	(3	-1	-2)	2.487	2.277	1.09	89.6	59.4
[7	-1	10]	(1	7	0)	(-3	-1	2)	2.487	2.277	1.09	75.5	62.8
[7	-1	9]	(1	7	0)	(-2	4	2)	2.487	2.210	1.13	65.9	66.4
[7	-1	5]	(1	7	0)	(2	4	-2)	2.487	2.210	1.13	57.5	82.5
[7	-1	-5]	(1	7	0)	(-1	3	-2)	2.487	2.172	1.15	76.5	57.7
[7	-1	-2]	(1	7	0)	(1	3	2)	2.487	2.172	1.15	62.4	68.0
[7	-1	-8]	(1	7	0)	(2	6	1)	2.487	2.165	1.15	32.7	49.2
[7	-1	12]	(1	7	0)	(-3	3	2)	2.487	2.144	1.16	77.1	56.3
[7	-1	9]	(1	7	0)	(3	3	-2)	2.487	2.144	1.16	62.3	66.4
[7	-1	6]	(1	7	0)	(1	-5	-2)	2.487	2.132	1.17	55.5	78.2
[7	-1	1]	(1	7	0)	(1	5	-2)	2.487	2.132	1.17	54.9	80.1
[7	-1	-8]	(1	7	0)	(0	-8	1)	2.487	2.063	1.21	31.0	49.2
[7	-1	8]	(1	7	0)	(0	8	1)	2.487	2.063	1.21	24.5	70.1
[7	-1	-7]	(1	7	0)	(2	0	2)	2.487	2.051	1.21	80.5	51.8
[7	-1	6]	(1	7	0)	(2	8	-1)	2.487	1.967	1.26	22.3	78.2
[7	-1	15]	(1	7	0)	(4	-2	-2)	2.487	1.967	1.26	87.4	48.1
[7	-1	13]	(1	7	0)	(4	2	-2)	2.487	1.967	1.26	68.0	53.4

Winchite (170) 283 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

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[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[7	-1	-6]	(1	7	0)	(1	-5	2)	2.487	1.957	1.27	65.1	54.7
[7	-1	-1]	(1	7	0)	(1	5	2)	2.487	1.957	1.27	51.1	71.9
[7	-1	-3]	(1	7	0)	(0	-6	2)	2.487	1.949	1.28	54.8	64.4
[7	-1	3]	(1	7	0)	(0	6	2)	2.487	1.949	1.28	47.5	88.8
[7	-1	13]	(1	7	0)	(-3	5	2)	2.487	1.936	1.28	65.9	53.4
[7	-1	8]	(1	7	0)	(-3	-5	2)	2.487	1.936	1.28	51.1	70.1
[7	-1	-9]	(1	7	0)	(-2	4	-2)	2.487	1.867	1.33	75.5	46.8
[7	-1	-5]	(1	7	0)	(2	4	2)	2.487	1.867	1.33	56.7	57.7
[7	-1	16]	(1	7	0)	(-1	9	1)	2.487	1.863	1.33	29.4	45.8
[7	-1	-2]	(1	7	0)	(-1	-9	1)	2.487	1.863	1.33	22.3	68.0
[7	-1	7]	(1	7	0)	(-1	7	2)	2.487	1.845	1.35	46.5	74.1
[7	-1	0]	(1	7	0)	(1	7	-2)	2.487	1.845	1.35	46.0	75.9
[7	-1	-6]	(1	7	0)	(2	8	1)	2.487	1.827	1.36	25.1	54.7
[7	-1	2]	(1	7	0)	(1	9	1)	2.487	1.800	1.38	20.0	84.4
[21	-3	14]	(1	7	0)	(-2	0	3)	2.487	1.752	1.42	88.4	83.9
[7	-1	2]	(1	7	0)	(1	1	-3)	2.487	1.749	1.42	85.7	84.4
[21	-3	8]	(1	7	0)	(1	-1	-3)	2.487	1.749	1.42	83.5	87.3
[7	-1	-7]	(1	7	0)	(-1	7	-2)	2.487	1.728	1.44	56.2	51.8
[7	-1	0]	(1	7	0)	(1	7	2)	2.487	1.728	1.44	42.4	75.9
[21	-3	16]	(1	7	0)	(-2	2	3)	2.487	1.720	1.45	81.0	81.1
[7	-1	4]	(1	7	0)	(2	2	-3)	2.487	1.720	1.45	77.7	86.8
[7	-1	14]	(1	7	0)	(3	-7	-2)	2.487	1.714	1.45	56.9	50.7
[7	-1	7]	(1	7	0)	(3	7	-2)	2.487	1.714	1.45	42.4	74.1
[7	-1	-9]	(1	7	0)	(3	3	2)	2.487	1.713	1.45	62.7	46.8
[21	-3	4]	(1	7	0)	(1	3	-3)	2.487	1.687	1.47	75.4	81.6
[21	-3	10]	(1	7	0)	(1	-3	-3)	2.487	1.687	1.47	73.2	89.7
[7	-1	16]	(1	7	0)	(5	3	-2)	2.487	1.685	1.48	62.8	45.8
[7	-1	11]	(1	7	0)	(-2	8	2)	2.487	1.685	1.48	47.7	59.4
[7	-1	3]	(1	7	0)	(2	8	-2)	2.487	1.685	1.48	39.6	88.8
[21	-3	22]	(1	7	0)	(3	-1	-3)	2.487	1.683	1.48	89.0	72.8
[21	-3	20]	(1	7	0)	(3	1	-3)	2.487	1.683	1.48	80.6	75.5
[7	-1	12]	(1	7	0)	(-3	-9	1)	2.487	1.678	1.48	22.4	56.3
[21	-3	-2]	(1	7	0)	(0	2	-3)	2.487	1.676	1.48	83.4	73.2
[21	-3	2]	(1	7	0)	(0	2	3)	2.487	1.676	1.48	75.9	78.7
[7	-1	11]	(1	7	0)	(4	6	-2)	2.487	1.674	1.49	47.3	59.4
[7	-1	6]	(1	7	0)	(-2	4	3)	2.487	1.633	1.52	71.1	78.2
[21	-3	10]	(1	7	0)	(2	4	-3)	2.487	1.633	1.52	67.9	89.7
[21	-3	-8]	(1	7	0)	(1	-1	3)	2.487	1.605	1.55	88.9	65.6
[7	-1	-2]	(1	7	0)	(1	1	3)	2.487	1.605	1.55	79.0	68.0
[7	-1	-8]	(1	7	0)	(3	5	2)	2.487	1.601	1.55	53.1	49.2
[7	-1	8]	(1	7	0)	(1	-9	-2)	2.487	1.597	1.56	39.9	70.1
[7	-1	-1]	(1	7	0)	(1	9	-2)	2.487	1.597	1.56	39.4	71.9
[21	-3	-4]	(1	7	0)	(0	-4	3)	2.487	1.596	1.56	73.7	70.6
[21	-3	4]	(1	7	0)	(0	4	3)	2.487	1.596	1.56	66.2	81.6
[21	-3	28]	(1	7	0)	(-4	0	3)	2.487	1.589	1.57	83.5	65.1
[21	-3	2]	(1	7	0)	(1	5	-3)	2.487	1.580	1.57	66.1	78.7
[7	-1	4]	(1	7	0)	(1	-5	-3)	2.487	1.580	1.57	63.9	86.8
[7	-1	15]	(1	7	0)	(5	5	-2)	2.487	1.578	1.58	53.3	48.1

Winchite (170) 283 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[7	-1	10]	(1	7	0)	(4	-2	-3)	2.487	1.565	1.59	86.8	62.8
[21	-3	26]	(1	7	0)	(4	2	-3)	2.487	1.565	1.59	73.8	67.6
[21	-3	-10]	(1	7	0)	(1	-3	3)	2.487	1.556	1.60	81.5	63.2
[21	-3	-4]	(1	7	0)	(1	3	3)	2.487	1.556	1.60	69.4	70.6
[21	-3	26]	(1	7	0)	(3	-5	-3)	2.487	1.531	1.62	69.9	67.6
[21	-3	16]	(1	7	0)	(3	5	-3)	2.487	1.531	1.62	61.5	81.1
[7	-1	-8]	(1	7	0)	(1	-9	2)	2.487	1.519	1.64	49.3	49.2
[7	-1	1]	(1	7	0)	(1	9	2)	2.487	1.519	1.64	35.7	80.1
[7	-1	-3]	(1	7	0)	(2	8	2)	2.487	1.517	1.64	39.5	64.4
[21	-3	20]	(1	7	0)	(-2	6	3)	2.487	1.514	1.64	62.5	75.5
[21	-3	8]	(1	7	0)	(-2	-6	3)	2.487	1.514	1.64	59.3	87.3
[7	-1	15]	(1	7	0)	(-3	9	2)	2.487	1.509	1.65	50.1	48.1
[7	-1	6]	(1	7	0)	(-3	-9	2)	2.487	1.509	1.65	35.7	78.2
[21	-3	32]	(1	7	0)	(4	-4	-3)	2.487	1.499	1.66	77.6	60.5
[7	-1	8]	(1	7	0)	(4	4	-3)	2.487	1.499	1.66	64.7	70.1
[21	-3	-14]	(1	7	0)	(2	0	3)	2.487	1.492	1.67	82.0	58.7
[21	-3	-16]	(1	7	0)	(2	-2	3)	2.487	1.472	1.69	88.8	56.6
[7	-1	-4]	(1	7	0)	(2	2	3)	2.487	1.472	1.69	72.9	60.9
[7	-1	-4]	(1	7	0)	(1	-5	3)	2.487	1.471	1.69	72.7	60.9
[21	-3	-2]	(1	7	0)	(1	5	3)	2.487	1.471	1.69	60.6	73.2
[7	-1	-7]	(1	7	0)	(3	7	2)	2.487	1.468	1.69	44.9	51.8
[7	-1	12]	(1	7	0)	(5	-1	-3)	2.487	1.463	1.70	86.2	56.3
[21	-3	34]	(1	7	0)	(-5	-1	3)	2.487	1.463	1.70	77.2	58.4
[7	-1	0]	(1	7	0)	(1	7	-3)	2.487	1.452	1.71	58.1	75.9
[21	-3	14]	(1	7	0)	(1	-7	-3)	2.487	1.452	1.71	55.9	83.9
[7	-1	14]	(1	7	0)	(5	7	-2)	2.487	1.451	1.71	45.2	50.7
[21	-3	38]	(1	7	0)	(5	-3	-3)	2.487	1.426	1.74	84.9	54.3
[21	-3	32]	(1	7	0)	(5	3	-3)	2.487	1.426	1.74	68.3	60.5
[7	-1	-6]	(1	7	0)	(2	-4	3)	2.487	1.417	1.76	80.1	54.7
[21	-3	-10]	(1	7	0)	(2	4	3)	2.487	1.417	1.76	64.2	63.2
[21	-3	28]	(1	7	0)	(3	-7	-3)	2.487	1.413	1.76	62.1	65.1
[21	-3	14]	(1	7	0)	(3	7	-3)	2.487	1.413	1.76	53.7	83.9
[21	-3	34]	(1	7	0)	(4	-6	-3)	2.487	1.405	1.77	69.4	58.4
[21	-3	22]	(1	7	0)	(4	6	-3)	2.487	1.405	1.77	56.6	72.8
[21	-3	22]	(1	7	0)	(2	-8	-3)	2.487	1.383	1.80	55.3	72.8
[7	-1	2]	(1	7	0)	(2	8	-3)	2.487	1.383	1.80	52.0	84.4
[21	-3	-14]	(1	7	0)	(-1	7	-3)	2.487	1.366	1.82	65.0	58.7
[7	-1	0]	(1	7	0)	(1	7	3)	2.487	1.366	1.82	53.0	75.9
[21	-3	-22]	(1	7	0)	(3	-1	3)	2.487	1.363	1.82	84.8	51.0
[21	-3	-20]	(1	7	0)	(3	1	3)	2.487	1.363	1.82	76.3	52.8
[21	-3	-8]	(1	7	0)	(0	8	-3)	2.487	1.360	1.83	58.0	65.6
[21	-3	8]	(1	7	0)	(0	8	3)	2.487	1.360	1.83	50.6	87.3
[21	-3	40]	(1	7	0)	(-5	5	3)	2.487	1.360	1.83	76.7	52.4
[7	-1	10]	(1	7	0)	(-5	-5	3)	2.487	1.360	1.83	60.2	62.8
[21	-3	-8]	(1	7	0)	(2	6	3)	2.487	1.336	1.86	56.4	65.6
[7	-1	-6]	(1	7	0)	(3	9	2)	2.487	1.333	1.87	38.2	54.7
[21	-3	44]	(1	7	0)	(-6	2	3)	2.487	1.329	1.87	88.6	48.9
[21	-3	40]	(1	7	0)	(6	2	-3)	2.487	1.329	1.87	72.0	52.4

Winchite (170) 283 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

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[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[14	-2	7]	(1	7	0)	(2	0	-4)	2.487	1.322	1.88	89.7	89.0
[21	-3	-2]	(1	7	0)	(-1	-9	3)	2.487	1.321	1.88	51.5	73.2
[21	-3	16]	(1	7	0)	(-1	9	3)	2.487	1.321	1.88	49.4	81.1
[7	-1	13]	(1	7	0)	(-5	-9	2)	2.487	1.320	1.88	38.5	53.4
[14	-2	3]	(1	7	0)	(1	1	-4)	2.487	1.309	1.90	87.8	82.3
[7	-1	2]	(1	7	0)	(1	-1	-4)	2.487	1.309	1.90	84.2	84.4
[14	-2	11]	(1	7	0)	(3	-1	-4)	2.487	1.303	1.91	88.3	80.3
[7	-1	5]	(1	7	0)	(3	1	-4)	2.487	1.303	1.91	83.7	82.5
[7	-1	12]	(1	7	0)	(4	-8	-3)	2.487	1.299	1.92	62.3	56.3
[21	-3	20]	(1	7	0)	(4	8	-3)	2.487	1.299	1.92	49.6	75.5
[21	-3	46]	(1	7	0)	(-6	4	3)	2.487	1.288	1.93	83.5	47.3
[21	-3	38]	(1	7	0)	(-6	-4	3)	2.487	1.288	1.93	64.1	54.3
[7	-1	1]	(1	7	0)	(1	3	-4)	2.487	1.282	1.94	79.9	80.1
[14	-2	5]	(1	7	0)	(1	-3	-4)	2.487	1.282	1.94	76.3	86.6
[21	-3	-26]	(1	7	0)	(3	-5	3)	2.487	1.278	1.95	79.1	47.6
[21	-3	-16]	(1	7	0)	(3	5	3)	2.487	1.278	1.95	60.3	56.6
[7	-1	6]	(1	7	0)	(3	-3	-4)	2.487	1.276	1.95	80.5	78.2
[14	-2	9]	(1	7	0)	(3	3	-4)	2.487	1.276	1.95	75.9	84.7
[7	-1	14]	(1	7	0)	(5	-7	-3)	2.487	1.275	1.95	69.3	50.7
[21	-3	28]	(1	7	0)	(5	7	-3)	2.487	1.275	1.95	52.9	65.1
[14	-2	9]	(1	7	0)	(2	-4	-4)	2.487	1.268	1.96	74.5	84.7
[14	-2	5]	(1	7	0)	(2	4	-4)	2.487	1.268	1.96	74.0	86.6
[14	-2	1]	(1	7	0)	(0	2	4)	2.487	1.267	1.96	78.4	78.0
[14	-2	15]	(1	7	0)	(4	-2	-4)	2.487	1.256	1.98	86.5	72.1
[14	-2	13]	(1	7	0)	(4	2	-4)	2.487	1.256	1.98	78.0	76.2
[21	-3	-16]	(1	7	0)	(1	-9	3)	2.487	1.255	1.98	58.5	56.6
[21	-3	2]	(1	7	0)	(1	9	3)	2.487	1.255	1.98	46.6	78.7
[21	-3	-28]	(1	7	0)	(4	0	3)	2.487	1.247	1.99	79.4	46.1
[21	-3	-22]	(1	7	0)	(2	-8	3)	2.487	1.244	2.00	65.3	51.0
[7	-1	-2]	(1	7	0)	(2	8	3)	2.487	1.244	2.00	49.6	68.0
[21	-3	-26]	(1	7	0)	(4	2	3)	2.487	1.236	2.01	71.7	47.6
[14	-2	1]	(1	7	0)	(1	5	-4)	2.487	1.233	2.02	72.5	78.0
[7	-1	3]	(1	7	0)	(1	-5	-4)	2.487	1.233	2.02	68.9	88.8
[14	-2	13]	(1	7	0)	(-3	5	4)	2.487	1.228	2.03	73.1	76.2
[7	-1	4]	(1	7	0)	(-3	-5	4)	2.487	1.228	2.03	68.5	86.8
[7	-1	-2]	(1	7	0)	(1	-1	4)	2.487	1.225	2.03	88.2	68.0
[14	-2	-3]	(1	7	0)	(1	1	4)	2.487	1.225	2.03	80.7	69.9
[7	-1	16]	(1	7	0)	(7	1	-3)	2.487	1.223	2.03	75.4	45.8
[7	-1	9]	(1	7	0)	(-5	1	4)	2.487	1.210	2.06	87.8	66.4
[14	-2	17]	(1	7	0)	(5	1	-4)	2.487	1.210	2.06	80.3	68.2
[21	-3	-28]	(1	7	0)	(-3	7	-3)	2.487	1.208	2.06	72.1	46.1
[21	-3	-14]	(1	7	0)	(3	7	3)	2.487	1.208	2.06	53.3	58.7
[14	-2	-5]	(1	7	0)	(1	-3	4)	2.487	1.203	2.07	84.3	66.2
[7	-1	-1]	(1	7	0)	(1	3	4)	2.487	1.203	2.07	73.3	71.9
[7	-1	-8]	(1	7	0)	(4	4	3)	2.487	1.202	2.07	64.2	49.2
[21	-3	46]	(1	7	0)	(-7	-3	3)	2.487	1.201	2.07	67.9	47.3
[14	-2	19]	(1	7	0)	(-5	3	4)	2.487	1.189	2.09	84.9	64.6
[7	-1	8]	(1	7	0)	(-5	-3	4)	2.487	1.189	2.09	73.0	70.1

Winchite (170) 283 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

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[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[21	-3	44]	(1	7	0)	(-5	9	3)	2.487	1.184	2.10	63.0	48.9
[21	-3	26]	(1	7	0)	(-5	-9	3)	2.487	1.184	2.10	46.6	67.6
[14	-2	-3]	(1	7	0)	(0	6	-4)	2.487	1.177	2.11	71.5	69.9
[14	-2	3]	(1	7	0)	(0	6	4)	2.487	1.177	2.11	64.0	82.3
[7	-1	0]	(1	7	0)	(1	7	-4)	2.487	1.169	2.13	65.8	75.9
[14	-2	7]	(1	7	0)	(1	-7	-4)	2.487	1.169	2.13	62.2	89.0
[14	-2	17]	(1	7	0)	(-4	6	4)	2.487	1.168	2.13	72.1	68.2
[14	-2	11]	(1	7	0)	(4	6	-4)	2.487	1.168	2.13	63.7	80.3
[7	-1	7]	(1	7	0)	(3	-7	-4)	2.487	1.165	2.14	66.4	74.1
[14	-2	7]	(1	7	0)	(3	7	-4)	2.487	1.165	2.14	61.8	89.0
[14	-2	-7]	(1	7	0)	(2	0	4)	2.487	1.165	2.14	82.9	62.6
[7	-1	-3]	(1	7	0)	(-1	5	-4)	2.487	1.163	2.14	77.3	64.4
[14	-2	-1]	(1	7	0)	(1	5	4)	2.487	1.163	2.14	66.3	73.9
[21	-3	44]	(1	7	0)	(7	5	-3)	2.487	1.160	2.14	60.8	48.9
[21	-3	34]	(1	7	0)	(-6	-8	3)	2.487	1.154	2.16	50.3	58.4
[21	-3	-22]	(1	7	0)	(4	6	3)	2.487	1.152	2.16	57.3	51.0
[7	-1	10]	(1	7	0)	(5	-5	-4)	2.487	1.150	2.16	77.9	62.8
[14	-2	15]	(1	7	0)	(5	5	-4)	2.487	1.150	2.16	66.0	72.1
[14	-2	21]	(1	7	0)	(6	0	-4)	2.487	1.147	2.17	82.6	61.1
[14	-2	11]	(1	7	0)	(2	-8	-4)	2.487	1.140	2.18	61.0	80.3
[14	-2	3]	(1	7	0)	(2	8	-4)	2.487	1.140	2.18	60.5	82.3
[14	-2	-9]	(1	7	0)	(-2	4	-4)	2.487	1.128	2.21	83.0	59.3
[14	-2	-5]	(1	7	0)	(2	4	4)	2.487	1.128	2.21	68.8	66.2
[14	-2	23]	(1	7	0)	(6	-4	-4)	2.487	1.112	2.24	83.5	57.8
[14	-2	19]	(1	7	0)	(6	4	-4)	2.487	1.112	2.24	68.7	64.6
[14	-2	-7]	(1	7	0)	(1	-7	4)	2.487	1.109	2.24	70.8	62.6
[7	-1	0]	(1	7	0)	(1	7	4)	2.487	1.109	2.24	59.8	75.9
[7	-1	14]	(1	7	0)	(7	7	-3)	2.487	1.107	2.25	54.3	50.7
[14	-2	-1]	(1	7	0)	(-1	-9	4)	2.487	1.098	2.27	59.8	73.9
[7	-1	4]	(1	7	0)	(-1	9	4)	2.487	1.098	2.27	56.3	86.8
[14	-2	21]	(1	7	0)	(5	-7	-4)	2.487	1.097	2.27	71.5	61.1
[7	-1	7]	(1	7	0)	(5	7	-4)	2.487	1.097	2.27	59.7	74.1
[14	-2	15]	(1	7	0)	(3	-9	-4)	2.487	1.094	2.27	60.4	72.1
[7	-1	3]	(1	7	0)	(3	9	-4)	2.487	1.094	2.27	55.9	88.8
[14	-2	-11]	(1	7	0)	(-3	1	-4)	2.487	1.094	2.27	85.0	56.1
[7	-1	-5]	(1	7	0)	(3	1	4)	2.487	1.094	2.27	78.2	57.7
[21	-3	-20]	(1	7	0)	(4	8	3)	2.487	1.091	2.28	51.1	52.8
[7	-1	-6]	(1	7	0)	(3	-3	4)	2.487	1.078	2.31	88.3	54.7
[14	-2	-9]	(1	7	0)	(3	3	4)	2.487	1.078	2.31	71.5	59.3
[14	-2	25]	(1	7	0)	(-7	1	4)	2.487	1.076	2.31	84.7	54.8
[7	-1	12]	(1	7	0)	(7	1	-4)	2.487	1.076	2.31	78.0	56.3
[7	-1	13]	(1	7	0)	(7	-3	-4)	2.487	1.061	2.35	88.8	53.4
[14	-2	23]	(1	7	0)	(7	3	-4)	2.487	1.061	2.35	71.4	57.8
[35	-5	14]	(1	7	0)	(-2	0	5)	2.487	1.057	2.35	89.4	87.9
[35	-5	22]	(1	7	0)	(3	-1	-5)	2.487	1.053	2.36	87.9	85.1
[7	-1	4]	(1	7	0)	(3	1	-5)	2.487	1.053	2.36	85.7	86.8
[35	-5	12]	(1	7	0)	(-2	-2	5)	2.487	1.050	2.37	84.1	86.2
[35	-5	16]	(1	7	0)	(-2	2	5)	2.487	1.050	2.37	83.0	89.7

Winchite (170) 283 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** ***α*** **90°** ***β*** **104.54°** ***γ*** **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[14	-2	-13]	(1	7	0)	(3	-5	4)	2.487	1.048	2.37	81.9	53.2
[7	-1	-4]	(1	7	0)	(3	5	4)	2.487	1.048	2.37	65.2	60.9
[7	-1	-4]	(1	7	0)	(1	-9	4)	2.487	1.047	2.38	65.0	60.9
[14	-2	1]	(1	7	0)	(1	9	4)	2.487	1.047	2.38	54.1	78.0
[21	-3	40]	(1	7	0)	(-7	-9	3)	2.487	1.045	2.38	48.4	52.4
[35	-5	6]	(1	7	0)	(1	1	-5)	2.487	1.044	2.38	89.0	81.0
[35	-5	8]	(1	7	0)	(1	-1	-5)	2.487	1.044	2.38	84.6	82.7
[21	-3	-28]	(1	7	0)	(5	7	3)	2.487	1.041	2.39	55.1	46.1
[35	-5	28]	(1	7	0)	(-4	0	5)	2.487	1.040	2.39	87.3	79.9
[35	-5	24]	(1	7	0)	(-3	3	5)	2.487	1.039	2.39	81.5	83.4
[35	-5	18]	(1	7	0)	(3	3	-5)	2.487	1.039	2.39	79.3	88.6
[7	-1	11]	(1	7	0)	(5	-9	-4)	2.487	1.038	2.40	65.7	59.4
[14	-2	13]	(1	7	0)	(5	9	-4)	2.487	1.038	2.40	53.9	76.2
[14	-2	-11]	(1	7	0)	(2	-8	4)	2.487	1.035	2.40	70.5	56.1
[14	-2	-3]	(1	7	0)	(2	8	4)	2.487	1.035	2.40	56.4	69.9
[7	-1	6]	(1	7	0)	(4	-2	-5)	2.487	1.033	2.41	86.3	78.2
[35	-5	26]	(1	7	0)	(4	2	-5)	2.487	1.033	2.41	80.9	81.6
[14	-2	27]	(1	7	0)	(7	-5	-4)	2.487	1.032	2.41	82.4	52.0
[7	-1	11]	(1	7	0)	(7	5	-4)	2.487	1.032	2.41	65.1	59.4
[35	-5	4]	(1	7	0)	(-1	-3	5)	2.487	1.031	2.41	82.7	79.3
[7	-1	2]	(1	7	0)	(-1	3	5)	2.487	1.031	2.41	78.3	84.4
[7	-1	2]	(1	7	0)	(-2	-4	5)	2.487	1.029	2.42	77.8	84.4
[35	-5	18]	(1	7	0)	(-2	4	5)	2.487	1.029	2.42	76.7	88.6
[14	-2	17]	(1	7	0)	(-6	-8	4)	2.487	1.023	2.43	56.4	68.2
[14	-2	-15]	(1	7	0)	(4	-2	4)	2.487	1.019	2.44	86.9	50.5
[14	-2	-13]	(1	7	0)	(4	2	4)	2.487	1.019	2.44	74.2	53.2
[35	-5	-2]	(1	7	0)	(0	2	-5)	2.487	1.017	2.45	87.5	74.3
[35	-5	2]	(1	7	0)	(0	2	5)	2.487	1.017	2.45	80.0	77.6
[35	-5	32]	(1	7	0)	(-4	4	5)	2.487	1.013	2.45	80.2	76.6
[35	-5	24]	(1	7	0)	(-4	-4	5)	2.487	1.013	2.45	74.7	83.4
[35	-5	36]	(1	7	0)	(5	-1	-5)	2.487	1.013	2.46	88.9	73.3
[35	-5	34]	(1	7	0)	(-5	-1	5)	2.487	1.013	2.46	82.7	74.9
[35	-5	26]	(1	7	0)	(-3	5	5)	2.487	1.012	2.46	75.4	81.6
[35	-5	16]	(1	7	0)	(-3	-5	5)	2.487	1.012	2.46	73.2	89.7
[7	-1	-7]	(1	7	0)	(-3	7	-4)	2.487	1.008	2.47	75.9	51.8
[14	-2	-7]	(1	7	0)	(3	7	4)	2.487	1.008	2.47	59.2	62.6
[35	-5	2]	(1	7	0)	(-1	-5	5)	2.487	1.005	2.48	76.6	77.6
[35	-5	12]	(1	7	0)	(-1	5	5)	2.487	1.005	2.48	72.2	86.2
[7	-1	16]	(1	7	0)	(-8	-8	3)	2.487	1.002	2.48	52.4	45.8
[14	-2	29]	(1	7	0)	(8	-2	-4)	2.487	1.001	2.48	86.5	49.4
[14	-2	27]	(1	7	0)	(-8	-2	4)	2.487	1.001	2.48	74.0	52.0
[35	-5	38]	(1	7	0)	(-5	3	5)	2.487	1.000	2.49	85.0	71.7
[35	-5	32]	(1	7	0)	(5	3	-5)	2.487	1.000	2.49	76.5	76.6

Winchite (200) 188 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** ***α*** **90°** ***β*** **104.54°** ***γ*** **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[0	1	0]	(2	0	0)	(0	0	1)	4.784	5.119	0.93	75.5	90.0
[0	1	1]	(2	0	0)	(1	1	-1)	4.784	4.882	0.98	74.2	73.7
[0	-1	-2]	(2	0	0)	(0	-2	1)	4.784	4.451	1.07	77.4	59.6
[0	1	0]	(2	0	0)	(2	0	-1)	4.784	4.031	1.19	49.7	90.0
[0	-1	1]	(2	0	0)	(1	1	1)	4.784	4.000	1.20	52.0	73.7
[0	1	3]	(2	0	0)	(1	3	-1)	4.784	3.876	1.23	77.5	48.7
[0	1	2]	(2	0	0)	(2	2	-1)	4.784	3.680	1.30	53.8	59.6
[0	1	-3]	(2	0	0)	(1	3	1)	4.784	3.388	1.41	58.6	48.7
[0	1	0]	(2	0	0)	(2	0	1)	4.784	3.121	1.53	36.2	90.0
[0	-1	1]	(2	0	0)	(-3	1	1)	4.784	3.025	1.58	36.6	73.7
[0	-1	-2]	(2	0	0)	(2	-2	1)	4.784	2.949	1.62	40.3	59.6
[0	1	3]	(2	0	0)	(3	3	-1)	4.784	2.733	1.75	43.5	48.7
[0	-2	-1]	(2	0	0)	(-1	-1	2)	4.784	2.616	1.83	89.0	81.7
[0	-1	1]	(2	0	0)	(0	2	2)	4.784	2.462	1.94	76.0	73.7
[0	1	-1]	(2	0	0)	(3	1	1)	4.784	2.418	1.98	28.5	73.7
[0	1	0]	(2	0	0)	(4	0	-1)	4.784	2.405	1.99	27.1	90.0
[0	-1	2]	(2	0	0)	(-4	2	1)	4.784	2.324	2.06	30.6	59.6
[0	-2	-1]	(2	0	0)	(1	-1	2)	4.784	2.311	2.07	62.0	81.7
[0	2	-1]	(2	0	0)	(3	-1	-2)	4.784	2.277	2.10	60.5	81.7
[0	1	-3]	(2	0	0)	(3	3	1)	4.784	2.261	2.12	34.7	48.7
[0	-1	-2]	(2	0	0)	(-2	-4	2)	4.784	2.210	2.16	75.7	59.6
[0	-2	3]	(2	0	0)	(1	3	2)	4.784	2.172	2.20	63.8	66.3
[0	-2	-3]	(2	0	0)	(-3	-3	2)	4.784	2.144	2.23	62.4	66.3
[0	2	5]	(2	0	0)	(1	5	-2)	4.784	2.132	2.24	89.2	53.8
[0	-1	1]	(2	0	0)	(-4	2	2)	4.784	1.967	2.43	50.8	73.7
[0	-2	-5]	(2	0	0)	(1	-5	2)	4.784	1.957	2.44	66.6	53.8
[0	-1	3]	(2	0	0)	(0	6	2)	4.784	1.949	2.46	79.0	48.7
[0	-1	-1]	(2	0	0)	(-5	-1	1)	4.784	1.944	2.46	22.5	73.7
[0	2	5]	(2	0	0)	(3	5	-2)	4.784	1.936	2.47	65.2	53.8
[0	-1	2]	(2	0	0)	(4	2	1)	4.784	1.934	2.47	25.1	59.6
[0	-1	2]	(2	0	0)	(2	4	2)	4.784	1.867	2.56	54.9	59.6
[0	-1	-3]	(2	0	0)	(-5	-3	1)	4.784	1.860	2.57	27.9	48.7
[0	2	-1]	(2	0	0)	(3	1	2)	4.784	1.778	2.69	42.8	81.7
[0	1	0]	(2	0	0)	(2	0	-3)	4.784	1.752	2.73	83.7	90.0
[0	3	1]	(2	0	0)	(1	1	-3)	4.784	1.749	2.73	85.8	84.4
[0	2	-1]	(2	0	0)	(5	-1	-2)	4.784	1.747	2.74	41.9	81.7
[0	3	2]	(2	0	0)	(2	2	-3)	4.784	1.720	2.78	83.8	78.9
[0	2	-3]	(2	0	0)	(3	3	2)	4.784	1.713	2.79	45.0	66.3
[0	-1	-1]	(2	0	0)	(-1	-3	3)	4.784	1.687	2.84	85.9	73.7
[0	2	3]	(2	0	0)	(5	3	-2)	4.784	1.685	2.84	44.1	66.3
[0	-3	-1]	(2	0	0)	(-3	-1	3)	4.784	1.683	2.84	73.6	84.4
[0	-3	2]	(2	0	0)	(0	2	3)	4.784	1.676	2.85	75.7	78.9
[0	-1	-3]	(2	0	0)	(-4	-6	2)	4.784	1.674	2.86	57.5	48.7
[0	-1	1]	(2	0	0)	(5	1	1)	4.784	1.650	2.90	19.0	73.7
[0	3	-4]	(2	0	0)	(2	-4	-3)	4.784	1.633	2.93	84.1	68.6
[0	-1	-2]	(2	0	0)	(-6	-2	1)	4.784	1.613	2.97	20.7	59.6
[0	-3	1]	(2	0	0)	(1	1	3)	4.784	1.605	2.98	66.2	84.4
[0	2	-5]	(2	0	0)	(3	5	2)	4.784	1.601	2.99	48.7	53.8

Winchite (200) 188 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[0	-1	3]	(2	0	0)	(5	3	1)	4.784	1.597	3.00	23.7	48.7
[0	3	-4]	(2	0	0)	(0	4	3)	4.784	1.596	3.00	76.4	68.6
[0	1	0]	(2	0	0)	(4	0	-3)	4.784	1.589	3.01	64.4	90.0
[0	3	5]	(2	0	0)	(1	5	-3)	4.784	1.580	3.03	86.2	64.0
[0	2	-5]	(2	0	0)	(5	-5	-2)	4.784	1.578	3.03	47.7	53.8
[0	3	2]	(2	0	0)	(4	2	-3)	4.784	1.565	3.06	64.8	78.9
[0	1	1]	(2	0	0)	(-1	3	-3)	4.784	1.556	3.07	66.9	73.7
[0	-1	-1]	(2	0	0)	(4	-2	2)	4.784	1.537	3.11	37.3	73.7
[0	1	0]	(2	0	0)	(6	0	-2)	4.784	1.534	3.12	35.5	90.0
[0	-3	5]	(2	0	0)	(-3	5	3)	4.784	1.531	3.13	75.2	64.0
[0	1	-2]	(2	0	0)	(2	-6	-3)	4.784	1.514	3.16	84.6	59.6
[0	3	4]	(2	0	0)	(4	4	-3)	4.784	1.499	3.19	65.9	68.6
[0	1	0]	(2	0	0)	(2	0	3)	4.784	1.492	3.21	57.8	90.0
[0	-3	2]	(2	0	0)	(2	2	3)	4.784	1.472	3.25	58.3	78.9
[0	3	-5]	(2	0	0)	(1	5	3)	4.784	1.471	3.25	68.2	64.0
[0	3	-1]	(2	0	0)	(5	-1	-3)	4.784	1.463	3.27	56.5	84.4
[0	-1	-2]	(2	0	0)	(-6	-4	2)	4.784	1.452	3.29	39.6	59.6
[0	-3	7]	(2	0	0)	(-1	7	3)	4.784	1.452	3.30	86.5	55.6
[0	-1	-1]	(2	0	0)	(-5	-3	3)	4.784	1.426	3.35	57.5	73.7
[0	1	0]	(2	0	0)	(6	0	1)	4.784	1.421	3.37	15.6	90.0
[0	3	4]	(2	0	0)	(-2	4	-3)	4.784	1.417	3.38	59.6	68.6
[0	3	-7]	(2	0	0)	(3	-7	-3)	4.784	1.413	3.38	76.3	55.6
[0	-1	-2]	(2	0	0)	(-4	-6	3)	4.784	1.405	3.41	67.5	59.6
[0	1	1]	(2	0	0)	(7	1	-1)	4.784	1.403	3.41	16.1	73.7
[0	1	-2]	(2	0	0)	(6	2	1)	4.784	1.403	3.41	17.9	59.6
[0	-1	3]	(2	0	0)	(4	6	2)	4.784	1.385	3.45	44.2	48.7
[0	3	8]	(2	0	0)	(2	8	-3)	4.784	1.383	3.46	85.0	52.0
[0	-1	-3]	(2	0	0)	(-7	-3	1)	4.784	1.371	3.49	20.2	48.7
[0	-2	1]	(2	0	0)	(5	1	2)	4.784	1.369	3.49	31.6	81.7
[0	-3	1]	(2	0	0)	(3	1	3)	4.784	1.363	3.51	51.0	84.4
[0	3	-8]	(2	0	0)	(0	8	3)	4.784	1.360	3.52	78.5	52.0
[0	3	-5]	(2	0	0)	(5	-5	-3)	4.784	1.360	3.52	59.2	64.0
[0	2	1]	(2	0	0)	(7	1	-2)	4.784	1.348	3.55	31.0	81.7
[0	-2	-3]	(2	0	0)	(5	-3	2)	4.784	1.339	3.57	33.6	66.3
[0	-1	2]	(2	0	0)	(2	6	3)	4.784	1.336	3.58	61.5	59.6
[0	3	-2]	(2	0	0)	(6	-2	-3)	4.784	1.329	3.60	50.2	78.9
[0	1	0]	(2	0	0)	(2	0	-4)	4.784	1.322	3.62	89.0	90.0
[0	1	3]	(2	0	0)	(1	9	-3)	4.784	1.321	3.62	86.8	48.7
[0	2	-3]	(2	0	0)	(7	-3	-2)	4.784	1.319	3.63	33.0	66.3
[0	-4	1]	(2	0	0)	(-1	1	4)	4.784	1.309	3.65	83.1	85.8
[0	-4	-1]	(2	0	0)	(-3	-1	4)	4.784	1.303	3.67	81.1	85.8
[0	3	8]	(2	0	0)	(4	8	-3)	4.784	1.299	3.68	69.3	52.0
[0	3	4]	(2	0	0)	(6	4	-3)	4.784	1.288	3.72	51.7	68.6
[0	2	-5]	(2	0	0)	(5	5	2)	4.784	1.283	3.73	37.0	53.8
[0	-4	3]	(2	0	0)	(-1	3	4)	4.784	1.282	3.73	83.3	77.6
[0	3	5]	(2	0	0)	(-3	5	-3)	4.784	1.278	3.74	53.8	64.0
[0	4	-3]	(2	0	0)	(3	-3	-4)	4.784	1.276	3.75	81.3	77.6
[0	3	7]	(2	0	0)	(5	7	-3)	4.784	1.275	3.75	61.3	55.6

Winchite (200) 188 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[0	1	1]	(2	0	0)	(2	4	-4)	4.784	1.268	3.77	89.0	73.7
[0	2	1]	(2	0	0)	(0	2	-4)	4.784	1.267	3.78	75.6	81.7
[0	2	-5]	(2	0	0)	(7	-5	-2)	4.784	1.266	3.78	36.4	53.8
[0	2	1]	(2	0	0)	(4	2	-4)	4.784	1.256	3.81	73.7	81.7
[0	1	-3]	(2	0	0)	(1	9	3)	4.784	1.255	3.81	71.6	48.7
[0	1	0]	(2	0	0)	(4	0	3)	4.784	1.247	3.84	45.0	90.0
[0	3	8]	(2	0	0)	(-2	8	-3)	4.784	1.244	3.85	63.6	52.0
[0	-1	-1]	(2	0	0)	(7	-1	1)	4.784	1.239	3.86	14.1	73.7
[0	-3	-2]	(2	0	0)	(4	-2	3)	4.784	1.236	3.87	45.6	78.9
[0	4	5]	(2	0	0)	(1	5	-4)	4.784	1.233	3.88	83.5	69.9
[0	1	0]	(2	0	0)	(8	0	-1)	4.784	1.232	3.88	13.5	90.0
[0	-3	-1]	(2	0	0)	(-7	-1	3)	4.784	1.223	3.91	44.2	84.4
[0	-1	-2]	(2	0	0)	(-8	-2	1)	4.784	1.220	3.92	15.5	59.6
[0	1	0]	(2	0	0)	(6	0	2)	4.784	1.220	3.92	27.5	90.0
[0	1	3]	(2	0	0)	(-7	3	-1)	4.784	1.216	3.93	17.8	48.7
[0	4	-1]	(2	0	0)	(5	-1	-4)	4.784	1.210	3.95	66.6	85.8
[0	-3	-7]	(2	0	0)	(3	-7	3)	4.784	1.208	3.96	56.1	55.6
[0	-4	3]	(2	0	0)	(1	3	4)	4.784	1.203	3.98	68.8	77.6
[0	3	4]	(2	0	0)	(-4	4	-3)	4.784	1.202	3.98	47.1	68.6
[0	1	-1]	(2	0	0)	(7	-3	-3)	4.784	1.201	3.98	45.2	73.7
[0	1	1]	(2	0	0)	(8	2	-2)	4.784	1.192	4.01	28.0	73.7
[0	-4	-3]	(2	0	0)	(-5	-3	4)	4.784	1.189	4.02	67.1	77.6
[0	1	-3]	(2	0	0)	(5	-9	-3)	4.784	1.184	4.04	63.5	48.7
[0	1	-2]	(2	0	0)	(6	4	2)	4.784	1.178	4.06	31.1	59.6
[0	-2	3]	(2	0	0)	(0	6	4)	4.784	1.177	4.06	76.6	66.3
[0	4	-7]	(2	0	0)	(1	-7	-4)	4.784	1.169	4.09	83.9	62.8
[0	2	3]	(2	0	0)	(4	6	-4)	4.784	1.168	4.10	74.9	66.3
[0	-4	-7]	(2	0	0)	(-3	-7	4)	4.784	1.165	4.11	82.1	62.8
[0	1	0]	(2	0	0)	(2	0	4)	4.784	1.165	4.11	61.8	90.0
[0	4	5]	(2	0	0)	(-1	5	-4)	4.784	1.163	4.11	69.5	69.9
[0	1	2]	(2	0	0)	(8	4	-2)	4.784	1.162	4.12	30.6	59.6
[0	3	-5]	(2	0	0)	(7	-5	-3)	4.784	1.160	4.12	47.1	64.0
[0	3	8]	(2	0	0)	(6	8	-3)	4.784	1.154	4.15	56.2	52.0
[0	-1	-2]	(2	0	0)	(4	-6	3)	4.784	1.152	4.15	49.3	59.6
[0	-4	5]	(2	0	0)	(-5	5	4)	4.784	1.150	4.16	67.9	69.9
[0	1	0]	(2	0	0)	(6	0	-4)	4.784	1.147	4.17	60.2	90.0
[0	1	-2]	(2	0	0)	(2	-8	-4)	4.784	1.140	4.20	89.1	59.6
[0	3	-1]	(2	0	0)	(5	1	3)	4.784	1.136	4.21	40.3	84.4
[0	-1	1]	(2	0	0)	(2	4	4)	4.784	1.128	4.24	62.8	73.7
[0	1	1]	(2	0	0)	(-5	3	-3)	4.784	1.118	4.28	41.4	73.7
[0	1	-3]	(2	0	0)	(8	-6	-2)	4.784	1.117	4.28	34.2	48.7
[0	3	2]	(2	0	0)	(8	2	-3)	4.784	1.110	4.31	39.9	78.9
[0	-4	7]	(2	0	0)	(1	7	4)	4.784	1.109	4.32	70.5	62.8
[0	-3	7]	(2	0	0)	(-7	7	3)	4.784	1.107	4.32	49.5	55.6
[0	4	9]	(2	0	0)	(1	9	-4)	4.784	1.098	4.36	84.2	56.6
[0	4	-7]	(2	0	0)	(5	-7	-4)	4.784	1.097	4.36	68.9	62.8
[0	4	9]	(2	0	0)	(3	9	-4)	4.784	1.094	4.37	82.6	56.6
[0	1	-2]	(2	0	0)	(8	2	1)	4.784	1.094	4.37	13.9	59.6

Winchite (200) 188 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[0	-4	1]	(2	0	0)	(3	1	4)	4.784	1.094	4.37	56.0	85.8
[0	2	-1]	(2	0	0)	(7	1	2)	4.784	1.092	4.38	24.7	81.7
[0	1	1]	(2	0	0)	(9	1	-1)	4.784	1.092	4.38	12.4	73.7
[0	3	-8]	(2	0	0)	(4	8	3)	4.784	1.091	4.38	51.8	52.0
[0	-3	5]	(2	0	0)	(5	5	3)	4.784	1.085	4.41	43.2	64.0
[0	4	-3]	(2	0	0)	(3	3	4)	4.784	1.078	4.44	56.6	77.6
[0	2	1]	(2	0	0)	(9	1	-2)	4.784	1.078	4.44	24.3	81.7
[0	2	-3]	(2	0	0)	(7	3	2)	4.784	1.077	4.44	26.4	66.3
[0	1	3]	(2	0	0)	(9	3	-1)	4.784	1.076	4.45	15.7	48.7
[0	-4	-1]	(2	0	0)	(-7	-1	4)	4.784	1.076	4.45	54.7	85.8
[0	2	3]	(2	0	0)	(9	3	-2)	4.784	1.063	4.50	26.0	66.3
[0	-4	-3]	(2	0	0)	(-7	-3	4)	4.784	1.061	4.51	55.2	77.6
[0	1	0]	(2	0	0)	(-2	0	5)	4.784	1.057	4.53	87.8	90.0
[0	-5	1]	(2	0	0)	(-3	1	5)	4.784	1.053	4.54	85.8	86.6
[0	-5	-2]	(2	0	0)	(-2	-2	5)	4.784	1.050	4.56	87.9	83.3
[0	-4	5]	(2	0	0)	(3	5	4)	4.784	1.048	4.56	57.6	69.9
[0	-1	-2]	(2	0	0)	(-8	-6	3)	4.784	1.048	4.57	43.6	59.6
[0	-4	9]	(2	0	0)	(1	9	4)	4.784	1.047	4.57	71.6	56.6
[0	2	-5]	(2	0	0)	(7	5	2)	4.784	1.047	4.57	29.4	53.8
[0	1	3]	(2	0	0)	(7	9	-3)	4.784	1.045	4.58	52.2	48.7
[0	-5	1]	(2	0	0)	(-1	1	5)	4.784	1.044	4.58	81.6	86.6
[0	3	7]	(2	0	0)	(-5	7	-3)	4.784	1.041	4.60	45.7	55.6
[0	-4	-9]	(2	0	0)	(-5	-9	4)	4.784	1.038	4.61	70.1	56.6
[0	-1	2]	(2	0	0)	(2	8	4)	4.784	1.035	4.62	65.2	59.6
[0	-2	-5]	(2	0	0)	(-9	-5	2)	4.784	1.034	4.63	29.0	53.8
[0	-3	2]	(2	0	0)	(6	2	3)	4.784	1.033	4.63	36.7	78.9
[0	-5	-2]	(2	0	0)	(-4	-2	5)	4.784	1.033	4.63	79.6	83.3
[0	4	5]	(2	0	0)	(7	5	-4)	4.784	1.032	4.63	56.3	69.9
[0	5	-3]	(2	0	0)	(1	-3	-5)	4.784	1.031	4.64	81.7	80.0
[0	-5	4]	(2	0	0)	(-2	4	5)	4.784	1.029	4.65	87.9	76.8
[0	-1	2]	(2	0	0)	(-6	8	4)	4.784	1.023	4.68	63.7	59.6
[0	3	-1]	(2	0	0)	(9	-1	-3)	4.784	1.021	4.69	35.6	84.4
[0	-2	1]	(2	0	0)	(4	2	4)	4.784	1.019	4.70	51.2	81.7
[0	5	-2]	(2	0	0)	(0	2	5)	4.784	1.017	4.70	75.6	83.3
[0	-3	4]	(2	0	0)	(6	4	3)	4.784	1.014	4.72	38.1	68.6
[0	-5	-4]	(2	0	0)	(-4	-4	5)	4.784	1.013	4.72	79.8	76.8
[0	5	1]	(2	0	0)	(5	1	-5)	4.784	1.013	4.72	73.6	86.6
[0	-1	-1]	(2	0	0)	(-3	-5	5)	4.784	1.012	4.73	86.0	73.7
[0	1	1]	(2	0	0)	(9	3	-3)	4.784	1.008	4.74	36.6	73.7
[0	-4	-7]	(2	0	0)	(3	-7	4)	4.784	1.008	4.74	59.0	62.8
[0	-1	-1]	(2	0	0)	(-1	-5	5)	4.784	1.005	4.76	81.9	73.7
[0	3	8]	(2	0	0)	(8	8	-3)	4.784	1.002	4.78	46.2	52.0
[0	-2	-1]	(2	0	0)	(-8	-2	4)	4.784	1.001	4.78	50.0	81.7
[0	5	3]	(2	0	0)	(5	3	-5)	4.784	1.000	4.78	73.8	80.0

Winchite (240) 323 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

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[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[2	-1	0]	(2	4	0)	(0	0	1)	3.281	5.119	0.64	80.1	79.3
[2	-1	3]	(2	4	0)	(1	-1	-1)	3.281	4.882	0.67	89.4	67.4
[2	-1	1]	(2	4	0)	(1	1	-1)	3.281	4.882	0.67	67.4	89.3
[2	-1	2]	(2	4	0)	(0	2	1)	3.281	4.451	0.74	59.4	77.9
[2	-1	4]	(2	4	0)	(2	0	-1)	3.281	4.031	0.81	63.6	58.3
[2	-1	-3]	(2	4	0)	(1	-1	1)	3.281	4.000	0.82	74.8	51.6
[2	-1	-1]	(2	4	0)	(1	1	1)	3.281	4.000	0.82	54.3	68.7
[2	-1	5]	(2	4	0)	(-1	3	1)	3.281	3.876	0.85	71.3	50.7
[2	-1	-1]	(2	4	0)	(-1	-3	1)	3.281	3.876	0.85	51.9	68.7
[2	-1	2]	(2	4	0)	(2	2	-1)	3.281	3.680	0.89	45.4	77.9
[2	-1	1]	(2	4	0)	(1	3	1)	3.281	3.388	0.97	39.8	89.3
[2	-1	-4]	(2	4	0)	(0	4	-1)	3.281	3.383	0.97	64.4	45.2
[2	-1	4]	(2	4	0)	(0	4	1)	3.281	3.383	0.97	48.7	58.3
[2	-1	-4]	(2	4	0)	(2	0	1)	3.281	3.121	1.05	56.3	45.2
[2	-1	5]	(2	4	0)	(-3	-1	1)	3.281	3.025	1.08	47.7	50.7
[2	-1	0]	(2	4	0)	(2	4	-1)	3.281	3.005	1.09	35.3	79.3
[2	-1	-2]	(2	4	0)	(2	2	1)	3.281	2.949	1.11	40.4	59.4
[2	-1	-3]	(2	4	0)	(1	5	-1)	3.281	2.939	1.12	45.2	51.6
[2	-1	3]	(2	4	0)	(-3	-3	1)	3.281	2.733	1.20	34.0	67.4
[2	-1	3]	(2	4	0)	(1	5	1)	3.281	2.708	1.21	33.7	67.4
[4	-2	3]	(2	4	0)	(1	-1	-2)	3.281	2.616	1.25	84.6	83.5
[4	-2	1]	(2	4	0)	(1	1	-2)	3.281	2.616	1.25	83.3	85.0
[2	-1	0]	(2	4	0)	(2	4	1)	3.281	2.566	1.28	29.6	79.3
[2	-1	2]	(2	4	0)	(-2	0	2)	3.281	2.536	1.29	78.8	77.9
[2	-1	-1]	(2	4	0)	(0	2	-2)	3.281	2.462	1.33	88.1	68.7
[2	-1	1]	(2	4	0)	(0	2	2)	3.281	2.462	1.33	68.6	89.3
[4	-2	5]	(2	4	0)	(-1	3	2)	3.281	2.420	1.36	73.7	72.5
[4	-2	-1]	(2	4	0)	(-1	-3	2)	3.281	2.420	1.36	72.3	73.9
[2	-1	-2]	(2	4	0)	(2	6	-1)	3.281	2.409	1.36	32.0	59.4
[2	-1	1]	(2	4	0)	(3	5	-1)	3.281	2.337	1.40	26.2	89.3
[4	-2	-3]	(2	4	0)	(-1	1	-2)	3.281	2.311	1.42	76.8	63.9
[4	-2	-1]	(2	4	0)	(1	1	2)	3.281	2.311	1.42	65.5	73.9
[4	-2	7]	(2	4	0)	(-3	1	2)	3.281	2.277	1.44	75.7	62.7
[4	-2	5]	(2	4	0)	(3	1	-2)	3.281	2.277	1.44	64.5	72.5
[2	-1	-3]	(2	4	0)	(3	3	1)	3.281	2.261	1.45	33.1	51.6
[2	-1	4]	(2	4	0)	(-2	4	2)	3.281	2.210	1.48	79.2	58.3
[2	-1	0]	(2	4	0)	(-2	-4	2)	3.281	2.210	1.48	58.3	79.3
[2	-1	5]	(2	4	0)	(1	7	1)	3.281	2.181	1.50	32.2	50.7
[4	-2	-5]	(2	4	0)	(-1	3	-2)	3.281	2.172	1.51	87.7	55.3
[4	-2	1]	(2	4	0)	(1	3	2)	3.281	2.172	1.51	55.6	85.0
[2	-1	2]	(2	4	0)	(2	6	1)	3.281	2.165	1.52	24.7	77.9
[4	-2	9]	(2	4	0)	(3	-3	-2)	3.281	2.144	1.53	86.6	54.3
[4	-2	3]	(2	4	0)	(-3	-3	2)	3.281	2.144	1.53	54.7	83.5
[4	-2	7]	(2	4	0)	(-1	5	2)	3.281	2.132	1.54	65.2	62.7
[4	-2	-3]	(2	4	0)	(-1	-5	2)	3.281	2.132	1.54	63.9	63.9
[2	-1	4]	(2	4	0)	(4	4	-1)	3.281	2.122	1.55	28.1	58.3
[2	-1	-2]	(2	4	0)	(2	0	2)	3.281	2.051	1.60	64.3	59.4
[2	-1	-1]	(2	4	0)	(3	5	1)	3.281	2.021	1.62	24.2	68.7

Winchite (240) 323 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** ***α*** **90°** ***β*** **104.54°** ***γ*** **90°**

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[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[2	-1	-4]	(2	4	0)	(-2	-8	1)	3.281	1.967	1.67	31.6	45.2
[2	-1	5]	(2	4	0)	(4	-2	-2)	3.281	1.967	1.67	74.0	50.7
[2	-1	3]	(2	4	0)	(4	2	-2)	3.281	1.967	1.67	53.7	67.4
[4	-2	-7]	(2	4	0)	(1	-5	2)	3.281	1.957	1.68	83.0	48.2
[4	-2	3]	(2	4	0)	(1	5	2)	3.281	1.957	1.68	48.2	83.5
[2	-1	-3]	(2	4	0)	(0	-6	2)	3.281	1.949	1.68	70.1	51.6
[2	-1	3]	(2	4	0)	(0	6	2)	3.281	1.949	1.68	53.0	67.4
[4	-2	11]	(2	4	0)	(3	-5	-2)	3.281	1.936	1.69	84.1	47.4
[4	-2	1]	(2	4	0)	(3	5	-2)	3.281	1.936	1.69	47.3	85.0
[2	-1	2]	(2	4	0)	(4	6	-1)	3.281	1.878	1.75	21.3	77.9
[2	-1	-4]	(2	4	0)	(-2	4	-2)	3.281	1.867	1.76	84.6	45.2
[2	-1	0]	(2	4	0)	(2	4	2)	3.281	1.867	1.76	45.9	79.3
[4	-2	9]	(2	4	0)	(1	-7	-2)	3.281	1.845	1.78	59.2	54.3
[4	-2	-5]	(2	4	0)	(1	7	-2)	3.281	1.845	1.78	58.1	55.3
[2	-1	4]	(2	4	0)	(2	8	1)	3.281	1.827	1.80	24.0	58.3
[2	-1	-4]	(2	4	0)	(4	4	1)	3.281	1.813	1.81	28.9	45.2
[4	-2	-7]	(2	4	0)	(-3	1	-2)	3.281	1.778	1.85	64.4	48.2
[4	-2	-5]	(2	4	0)	(3	1	2)	3.281	1.778	1.85	54.9	55.3
[2	-1	1]	(2	4	0)	(3	7	1)	3.281	1.772	1.85	19.6	89.3
[6	-3	4]	(2	4	0)	(-2	0	3)	3.281	1.752	1.87	85.7	85.4
[6	-3	1]	(2	4	0)	(1	1	-3)	3.281	1.749	1.88	88.9	83.1
[2	-1	1]	(2	4	0)	(1	-1	-3)	3.281	1.749	1.88	83.0	89.3
[4	-2	11]	(2	4	0)	(5	-1	-2)	3.281	1.747	1.88	63.8	47.4
[4	-2	9]	(2	4	0)	(5	1	-2)	3.281	1.747	1.88	54.4	54.3
[4	-2	5]	(2	4	0)	(1	7	2)	3.281	1.728	1.90	43.3	72.5
[2	-1	2]	(2	4	0)	(-2	2	3)	3.281	1.720	1.91	86.3	77.9
[6	-3	2]	(2	4	0)	(-2	-2	3)	3.281	1.720	1.91	77.7	86.9
[2	-1	5]	(2	4	0)	(5	5	-1)	3.281	1.719	1.91	24.8	50.7
[4	-2	-1]	(2	4	0)	(-3	-7	2)	3.281	1.714	1.91	42.4	73.9
[4	-2	-3]	(2	4	0)	(3	3	2)	3.281	1.713	1.92	46.2	63.9
[6	-3	-1]	(2	4	0)	(-1	-3	3)	3.281	1.687	1.94	81.1	75.7
[6	-3	5]	(2	4	0)	(-1	3	3)	3.281	1.687	1.94	75.3	81.6
[4	-2	7]	(2	4	0)	(-5	-3	2)	3.281	1.685	1.95	45.8	62.7
[2	-1	-2]	(2	4	0)	(2	8	-2)	3.281	1.685	1.95	47.8	59.4
[6	-3	7]	(2	4	0)	(-3	1	3)	3.281	1.683	1.95	82.8	74.3
[6	-3	5]	(2	4	0)	(3	1	-3)	3.281	1.683	1.95	74.9	81.6
[2	-1	-3]	(2	4	0)	(-3	-9	1)	3.281	1.678	1.96	23.9	51.6
[6	-3	-2]	(2	4	0)	(0	-2	3)	3.281	1.676	1.96	88.0	72.1
[6	-3	2]	(2	4	0)	(0	2	3)	3.281	1.676	1.96	72.3	86.9
[2	-1	1]	(2	4	0)	(4	6	-2)	3.281	1.674	1.96	39.3	89.3
[2	-1	-2]	(2	4	0)	(4	6	1)	3.281	1.653	1.98	21.3	59.4
[2	-1	0]	(2	4	0)	(4	8	-1)	3.281	1.645	1.99	18.5	79.3
[6	-3	8]	(2	4	0)	(2	-4	-3)	3.281	1.633	2.01	78.9	70.8
[2	-1	0]	(2	4	0)	(2	4	-3)	3.281	1.633	2.01	70.5	79.3
[2	-1	-1]	(2	4	0)	(-1	1	-3)	3.281	1.605	2.04	77.7	68.7
[6	-3	-1]	(2	4	0)	(1	1	3)	3.281	1.605	2.04	70.0	75.7
[4	-2	-1]	(2	4	0)	(3	5	2)	3.281	1.601	2.05	39.1	73.9
[4	-2	11]	(2	4	0)	(-1	9	2)	3.281	1.597	2.05	55.1	47.4

Winchite (240) 323 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** ***α*** **90°** ***β*** **104.54°** ***γ*** **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[4	-2	-7]	(2	4	0)	(-1	-9	2)	3.281	1.597	2.05	54.1	48.2
[6	-3	-4]	(2	4	0)	(0	4	-3)	3.281	1.596	2.06	84.5	65.4
[6	-3	4]	(2	4	0)	(0	4	3)	3.281	1.596	2.06	65.3	85.4
[6	-3	8]	(2	4	0)	(4	0	-3)	3.281	1.589	2.06	72.7	70.8
[2	-1	-1]	(2	4	0)	(-1	-5	3)	3.281	1.580	2.08	74.2	68.7
[6	-3	7]	(2	4	0)	(-1	5	3)	3.281	1.580	2.08	68.6	74.3
[4	-2	5]	(2	4	0)	(-5	-5	2)	3.281	1.578	2.08	38.7	72.5
[6	-3	10]	(2	4	0)	(4	-2	-3)	3.281	1.565	2.10	80.4	64.2
[2	-1	2]	(2	4	0)	(-4	-2	3)	3.281	1.565	2.10	65.2	77.9
[6	-3	-5]	(2	4	0)	(1	-3	3)	3.281	1.556	2.11	85.3	62.3
[6	-3	1]	(2	4	0)	(1	3	3)	3.281	1.556	2.11	62.8	83.1
[2	-1	3]	(2	4	0)	(3	9	1)	3.281	1.549	2.12	18.5	67.4
[2	-1	-3]	(2	4	0)	(4	2	2)	3.281	1.537	2.13	47.9	51.6
[6	-3	11]	(2	4	0)	(-3	5	3)	3.281	1.531	2.14	82.4	61.2
[6	-3	1]	(2	4	0)	(3	5	-3)	3.281	1.531	2.14	61.0	83.1
[4	-2	7]	(2	4	0)	(1	9	2)	3.281	1.519	2.16	40.3	62.7
[2	-1	2]	(2	4	0)	(2	8	2)	3.281	1.517	2.16	35.9	77.9
[6	-3	10]	(2	4	0)	(2	-6	-3)	3.281	1.514	2.17	72.5	64.2
[6	-3	-2]	(2	4	0)	(2	6	-3)	3.281	1.514	2.17	64.5	72.1
[4	-2	-3]	(2	4	0)	(3	9	-2)	3.281	1.509	2.17	39.5	63.9
[2	-1	4]	(2	4	0)	(4	-4	-3)	3.281	1.499	2.19	87.8	58.3
[6	-3	4]	(2	4	0)	(-4	-4	3)	3.281	1.499	2.19	58.5	85.4
[6	-3	-4]	(2	4	0)	(2	0	3)	3.281	1.492	2.20	68.6	65.4
[2	-1	0]	(2	4	0)	(4	8	1)	3.281	1.487	2.21	16.6	79.3
[2	-1	-2]	(2	4	0)	(-2	2	-3)	3.281	1.472	2.23	76.0	59.4
[6	-3	-2]	(2	4	0)	(2	2	3)	3.281	1.472	2.23	61.4	72.1
[6	-3	-7]	(2	4	0)	(1	-5	3)	3.281	1.471	2.23	87.6	56.6
[2	-1	1]	(2	4	0)	(1	5	3)	3.281	1.471	2.23	56.6	89.3
[4	-2	1]	(2	4	0)	(3	7	2)	3.281	1.468	2.23	33.9	85.0
[6	-3	11]	(2	4	0)	(5	-1	-3)	3.281	1.463	2.24	71.3	61.2
[2	-1	3]	(2	4	0)	(5	1	-3)	3.281	1.463	2.24	64.0	67.4
[2	-1	4]	(2	4	0)	(-6	-4	2)	3.281	1.452	2.26	40.2	58.3
[6	-3	-5]	(2	4	0)	(1	7	-3)	3.281	1.452	2.26	68.4	62.3
[2	-1	3]	(2	4	0)	(1	-7	-3)	3.281	1.452	2.26	63.1	67.4
[4	-2	3]	(2	4	0)	(5	7	-2)	3.281	1.451	2.26	33.5	83.5
[6	-3	13]	(2	4	0)	(-5	3	3)	3.281	1.426	2.30	78.6	55.6
[6	-3	7]	(2	4	0)	(5	3	-3)	3.281	1.426	2.30	57.2	74.3
[6	-3	-8]	(2	4	0)	(-2	4	-3)	3.281	1.417	2.32	83.2	54.0
[2	-1	0]	(2	4	0)	(2	4	3)	3.281	1.417	2.32	54.9	79.3
[6	-3	13]	(2	4	0)	(3	-7	-3)	3.281	1.413	2.32	76.3	55.6
[6	-3	-1]	(2	4	0)	(3	7	-3)	3.281	1.413	2.32	55.9	75.7
[6	-3	14]	(2	4	0)	(4	-6	-3)	3.281	1.405	2.34	85.6	53.1
[6	-3	2]	(2	4	0)	(4	6	-3)	3.281	1.405	2.34	53.0	86.9
[2	-1	1]	(2	4	0)	(-5	-9	1)	3.281	1.399	2.34	15.3	89.3
[2	-1	-3]	(2	4	0)	(5	7	1)	3.281	1.393	2.35	19.7	51.6
[2	-1	-1]	(2	4	0)	(4	6	2)	3.281	1.385	2.37	34.2	68.7
[2	-1	4]	(2	4	0)	(-2	8	3)	3.281	1.383	2.37	67.3	58.3
[6	-3	-4]	(2	4	0)	(2	8	-3)	3.281	1.383	2.37	59.6	65.4

Winchite (240) 323 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** ***α*** **90°** ***β*** **104.54°** ***γ*** **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[6	-3	5]	(2	4	0)	(1	7	3)	3.281	1.366	2.40	51.6	81.6
[6	-3	-7]	(2	4	0)	(-3	1	-3)	3.281	1.363	2.41	67.8	56.6
[6	-3	-5]	(2	4	0)	(3	1	3)	3.281	1.363	2.41	60.8	62.3
[6	-3	-8]	(2	4	0)	(0	-8	3)	3.281	1.360	2.41	72.5	54.0
[6	-3	8]	(2	4	0)	(0	8	3)	3.281	1.360	2.41	54.8	70.8
[2	-1	5]	(2	4	0)	(-5	5	3)	3.281	1.360	2.41	85.5	50.7
[6	-3	5]	(2	4	0)	(5	5	-3)	3.281	1.360	2.41	51.2	81.6
[6	-3	-10]	(2	4	0)	(-2	6	-3)	3.281	1.336	2.45	89.8	49.3
[6	-3	2]	(2	4	0)	(2	6	3)	3.281	1.336	2.45	49.4	86.9
[4	-2	3]	(2	4	0)	(3	9	2)	3.281	1.333	2.46	30.5	83.5
[6	-3	14]	(2	4	0)	(6	-2	-3)	3.281	1.329	2.47	70.6	53.1
[6	-3	10]	(2	4	0)	(-6	-2	3)	3.281	1.329	2.47	56.8	64.2
[2	-1	4]	(2	4	0)	(6	8	-1)	3.281	1.326	2.47	17.1	58.3
[2	-1	1]	(2	4	0)	(2	0	-4)	3.281	1.322	2.48	89.3	89.3
[6	-3	-7]	(2	4	0)	(-1	-9	3)	3.281	1.321	2.48	63.8	56.6
[6	-3	11]	(2	4	0)	(-1	9	3)	3.281	1.321	2.48	58.8	61.2
[4	-2	1]	(2	4	0)	(-5	-9	2)	3.281	1.320	2.49	30.1	85.0
[4	-2	11]	(2	4	0)	(7	3	-2)	3.281	1.319	2.49	42.7	47.4
[8	-4	1]	(2	4	0)	(1	1	-4)	3.281	1.309	2.51	88.3	82.1
[8	-4	3]	(2	4	0)	(-1	1	4)	3.281	1.309	2.51	82.2	87.9
[8	-4	7]	(2	4	0)	(-3	1	4)	3.281	1.303	2.52	86.9	80.7
[8	-4	5]	(2	4	0)	(3	1	-4)	3.281	1.303	2.52	80.9	86.4
[6	-3	16]	(2	4	0)	(4	-8	-3)	3.281	1.299	2.53	79.9	48.5
[2	-1	0]	(2	4	0)	(4	8	-3)	3.281	1.299	2.53	48.6	79.3
[6	-3	16]	(2	4	0)	(-6	4	3)	3.281	1.288	2.55	77.4	48.5
[6	-3	8]	(2	4	0)	(6	4	-3)	3.281	1.288	2.55	50.7	70.8
[4	-2	-5]	(2	4	0)	(5	5	2)	3.281	1.283	2.56	36.2	55.3
[8	-4	-1]	(2	4	0)	(-1	-3	4)	3.281	1.282	2.56	85.7	76.6
[8	-4	5]	(2	4	0)	(-1	3	4)	3.281	1.282	2.56	76.4	86.4
[6	-3	-11]	(2	4	0)	(-3	5	-3)	3.281	1.278	2.57	81.5	47.2
[6	-3	-1]	(2	4	0)	(3	5	3)	3.281	1.278	2.57	48.5	75.7
[2	-1	-1]	(2	4	0)	(5	9	1)	3.281	1.277	2.57	15.0	68.7
[8	-4	9]	(2	4	0)	(-3	3	4)	3.281	1.276	2.57	87.1	75.2
[8	-4	3]	(2	4	0)	(-3	-3	4)	3.281	1.276	2.57	75.0	87.9
[6	-3	17]	(2	4	0)	(-5	7	3)	3.281	1.275	2.57	88.3	46.4
[2	-1	1]	(2	4	0)	(5	7	-3)	3.281	1.275	2.57	46.4	89.3
[2	-1	2]	(2	4	0)	(2	-4	-4)	3.281	1.268	2.59	78.9	77.9
[2	-1	0]	(2	4	0)	(2	4	-4)	3.281	1.268	2.59	77.5	79.3
[2	-1	2]	(2	4	0)	(-6	-8	2)	3.281	1.268	2.59	29.4	77.9
[4	-2	1]	(2	4	0)	(0	2	4)	3.281	1.267	2.59	74.2	85.0
[4	-2	9]	(2	4	0)	(-7	-5	2)	3.281	1.266	2.59	36.1	54.3
[4	-2	5]	(2	4	0)	(4	-2	-4)	3.281	1.256	2.61	84.8	72.5
[4	-2	3]	(2	4	0)	(-4	-2	4)	3.281	1.256	2.61	72.9	83.5
[6	-3	-11]	(2	4	0)	(-1	9	-3)	3.281	1.255	2.61	76.2	47.2
[6	-3	7]	(2	4	0)	(1	9	3)	3.281	1.255	2.61	47.7	74.3
[6	-3	-8]	(2	4	0)	(4	0	3)	3.281	1.247	2.63	61.0	54.0
[2	-1	-4]	(2	4	0)	(2	-8	3)	3.281	1.244	2.64	84.5	45.2
[6	-3	4]	(2	4	0)	(2	8	3)	3.281	1.244	2.64	45.1	85.4

Winchite (240) 323 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** ***α*** **90°** ***β*** **104.54°** ***γ*** **90°**

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[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[6	-3	-10]	(2	4	0)	(-4	2	-3)	3.281	1.236	2.66	67.6	49.3
[2	-1	-2]	(2	4	0)	(4	2	3)	3.281	1.236	2.66	54.5	59.4
[8	-4	-3]	(2	4	0)	(-1	-5	4)	3.281	1.233	2.66	80.1	71.2
[8	-4	7]	(2	4	0)	(-1	5	4)	3.281	1.233	2.66	71.0	80.7
[8	-4	11]	(2	4	0)	(3	-5	-4)	3.281	1.228	2.67	81.5	69.9
[8	-4	1]	(2	4	0)	(3	5	-4)	3.281	1.228	2.67	69.7	82.1
[8	-4	-1]	(2	4	0)	(1	1	4)	3.281	1.225	2.68	72.4	76.6
[2	-1	5]	(2	4	0)	(7	-1	-3)	3.281	1.223	2.68	63.7	50.7
[6	-3	13]	(2	4	0)	(-7	-1	3)	3.281	1.223	2.68	57.2	55.6
[4	-2	-3]	(2	4	0)	(5	7	2)	3.281	1.212	2.71	30.7	63.9
[8	-4	11]	(2	4	0)	(-5	1	4)	3.281	1.210	2.71	77.1	69.9
[8	-4	9]	(2	4	0)	(5	1	-4)	3.281	1.210	2.71	71.3	75.2
[6	-3	1]	(2	4	0)	(3	7	3)	3.281	1.208	2.72	43.6	83.1
[8	-4	-5]	(2	4	0)	(1	-3	4)	3.281	1.203	2.73	84.1	66.2
[8	-4	1]	(2	4	0)	(1	3	4)	3.281	1.203	2.73	66.8	82.1
[2	-1	-4]	(2	4	0)	(4	-4	3)	3.281	1.202	2.73	74.1	45.2
[6	-3	-4]	(2	4	0)	(4	4	3)	3.281	1.202	2.73	48.6	65.4
[2	-1	-4]	(2	4	0)	(6	8	1)	3.281	1.202	2.73	18.7	45.2
[6	-3	17]	(2	4	0)	(-7	3	3)	3.281	1.201	2.73	70.2	46.4
[6	-3	11]	(2	4	0)	(7	3	-3)	3.281	1.201	2.73	51.0	61.2
[4	-2	7]	(2	4	0)	(-7	-7	2)	3.281	1.197	2.74	30.6	62.7
[8	-4	13]	(2	4	0)	(5	-3	-4)	3.281	1.189	2.76	82.9	65.0
[8	-4	7]	(2	4	0)	(-5	-3	4)	3.281	1.189	2.76	65.7	80.7
[6	-3	1]	(2	4	0)	(5	9	-3)	3.281	1.184	2.77	42.6	83.1
[2	-1	-4]	(2	4	0)	(6	4	2)	3.281	1.178	2.79	38.9	45.2
[4	-2	-3]	(2	4	0)	(0	6	-4)	3.281	1.177	2.79	82.8	63.9
[4	-2	3]	(2	4	0)	(0	6	4)	3.281	1.177	2.79	63.7	83.5
[8	-4	-5]	(2	4	0)	(1	7	-4)	3.281	1.169	2.81	75.1	66.2
[8	-4	9]	(2	4	0)	(1	-7	-4)	3.281	1.169	2.81	66.2	75.2
[4	-2	7]	(2	4	0)	(-4	6	4)	3.281	1.168	2.81	84.1	62.7
[4	-2	1]	(2	4	0)	(-4	-6	4)	3.281	1.168	2.81	62.5	85.0
[8	-4	13]	(2	4	0)	(-3	7	4)	3.281	1.165	2.82	76.5	65.0
[8	-4	-1]	(2	4	0)	(-3	-7	4)	3.281	1.165	2.82	65.0	76.6
[2	-1	-1]	(2	4	0)	(2	0	4)	3.281	1.165	2.82	71.0	68.7
[8	-4	-7]	(2	4	0)	(-1	5	-4)	3.281	1.163	2.82	89.7	61.6
[8	-4	3]	(2	4	0)	(1	5	4)	3.281	1.163	2.82	61.7	87.9
[2	-1	3]	(2	4	0)	(7	5	-3)	3.281	1.160	2.83	45.5	67.4
[6	-3	4]	(2	4	0)	(-6	-8	3)	3.281	1.154	2.84	41.1	85.4
[6	-3	-2]	(2	4	0)	(4	6	3)	3.281	1.152	2.85	43.4	72.1
[2	-1	5]	(2	4	0)	(-7	-9	1)	3.281	1.152	2.85	16.3	50.7
[8	-4	15]	(2	4	0)	(5	-5	-4)	3.281	1.150	2.85	88.4	60.5
[8	-4	5]	(2	4	0)	(5	5	-4)	3.281	1.150	2.85	60.6	86.4
[2	-1	3]	(2	4	0)	(-6	0	4)	3.281	1.147	2.86	70.1	67.4
[2	-1	3]	(2	4	0)	(-2	8	4)	3.281	1.140	2.88	69.1	67.4
[2	-1	-1]	(2	4	0)	(2	8	-4)	3.281	1.140	2.88	67.8	68.7
[6	-3	-11]	(2	4	0)	(-5	1	-3)	3.281	1.136	2.89	61.5	47.2
[2	-1	-3]	(2	4	0)	(5	1	3)	3.281	1.136	2.89	55.3	51.6
[4	-2	-1]	(2	4	0)	(5	9	2)	3.281	1.133	2.90	26.5	73.9

Winchite (240) 323 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** ***α*** **90°** ***β*** **104.54°** ***γ*** **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	*θ*°	ZA^C°
[2	-1	-2]	(2	4	0)	(2	-4	4)	3.281	1.128	2.91	82.4	59.4
[2	-1	0]	(2	4	0)	(2	4	4)	3.281	1.128	2.91	60.2	79.3
[4	-2	5]	(2	4	0)	(7	9	-2)	3.281	1.121	2.93	26.4	72.5
[6	-3	16]	(2	4	0)	(-8	0	3)	3.281	1.118	2.93	57.9	48.5
[6	-3	-7]	(2	4	0)	(5	3	3)	3.281	1.118	2.93	49.4	56.6
[2	-1	5]	(2	4	0)	(-8	-6	2)	3.281	1.117	2.94	33.1	50.7
[2	-1	4]	(2	4	0)	(6	-4	-4)	3.281	1.112	2.95	81.3	58.3
[2	-1	2]	(2	4	0)	(-6	-4	4)	3.281	1.112	2.95	59.3	77.9
[6	-3	14]	(2	4	0)	(8	2	-3)	3.281	1.110	2.96	51.9	53.1
[8	-4	-9]	(2	4	0)	(1	-7	4)	3.281	1.109	2.96	85.2	57.3
[8	-4	5]	(2	4	0)	(1	7	4)	3.281	1.109	2.96	57.2	86.4
[6	-3	7]	(2	4	0)	(-7	-7	3)	3.281	1.107	2.97	40.7	74.3
[8	-4	-7]	(2	4	0)	(1	9	-4)	3.281	1.098	2.99	70.8	61.6
[8	-4	11]	(2	4	0)	(1	-9	-4)	3.281	1.098	2.99	62.2	69.9
[8	-4	17]	(2	4	0)	(-5	7	4)	3.281	1.097	2.99	86.4	56.3
[8	-4	3]	(2	4	0)	(-5	-7	4)	3.281	1.097	2.99	56.2	87.9
[8	-4	15]	(2	4	0)	(-3	9	4)	3.281	1.094	3.00	72.1	60.5
[8	-4	-3]	(2	4	0)	(-3	-9	4)	3.281	1.094	3.00	60.9	71.2
[8	-4	-7]	(2	4	0)	(3	-1	4)	3.281	1.094	3.00	70.2	61.6
[8	-4	-5]	(2	4	0)	(3	1	4)	3.281	1.094	3.00	64.7	66.2
[2	-1	0]	(2	4	0)	(4	8	3)	3.281	1.091	3.01	39.1	79.3
[2	-1	4]	(2	4	0)	(-8	-4	3)	3.281	1.085	3.02	46.3	58.3
[6	-3	-5]	(2	4	0)	(5	5	3)	3.281	1.085	3.02	44.0	62.3
[8	-4	-9]	(2	4	0)	(-3	3	-4)	3.281	1.078	3.04	75.7	57.3
[8	-4	-3]	(2	4	0)	(3	3	4)	3.281	1.078	3.04	59.4	71.2
[8	-4	15]	(2	4	0)	(-7	1	4)	3.281	1.076	3.05	69.3	60.5
[8	-4	13]	(2	4	0)	(7	1	-4)	3.281	1.076	3.05	63.9	65.0
[2	-1	-2]	(2	4	0)	(6	8	2)	3.281	1.073	3.06	28.1	59.4
[8	-4	17]	(2	4	0)	(-7	3	4)	3.281	1.061	3.09	74.7	56.3
[8	-4	11]	(2	4	0)	(7	3	-4)	3.281	1.061	3.09	58.7	69.9
[10	-5	4]	(2	4	0)	(2	0	-5)	3.281	1.057	3.10	88.5	88.4
[10	-5	7]	(2	4	0)	(3	-1	-5)	3.281	1.053	3.12	89.6	84.7
[2	-1	1]	(2	4	0)	(-3	-1	5)	3.281	1.053	3.12	84.7	89.3
[10	-5	2]	(2	4	0)	(2	2	-5)	3.281	1.050	3.13	86.6	83.8
[10	-5	6]	(2	4	0)	(2	-2	-5)	3.281	1.050	3.13	83.7	87.0
[8	-4	-11]	(2	4	0)	(3	-5	4)	3.281	1.048	3.13	81.0	53.4
[8	-4	-1]	(2	4	0)	(3	5	4)	3.281	1.048	3.13	54.6	76.6
[6	-3	10]	(2	4	0)	(-8	-6	3)	3.281	1.048	3.13	41.3	64.2
[8	-4	-11]	(2	4	0)	(-1	9	-4)	3.281	1.047	3.13	80.6	53.4
[8	-4	7]	(2	4	0)	(1	9	4)	3.281	1.047	3.13	53.4	80.7
[6	-3	5]	(2	4	0)	(7	9	-3)	3.281	1.045	3.14	36.8	81.6
[10	-5	1]	(2	4	0)	(-1	-1	5)	3.281	1.044	3.14	86.6	81.6
[10	-5	3]	(2	4	0)	(1	-1	-5)	3.281	1.044	3.14	81.8	86.1
[2	-1	-1]	(2	4	0)	(5	7	3)	3.281	1.041	3.15	39.3	68.7
[10	-5	9]	(2	4	0)	(3	-3	-5)	3.281	1.039	3.16	85.6	80.1
[10	-5	3]	(2	4	0)	(3	3	-5)	3.281	1.039	3.16	79.9	86.1
[8	-4	19]	(2	4	0)	(-5	9	4)	3.281	1.038	3.16	81.8	52.5
[8	-4	1]	(2	4	0)	(-5	-9	4)	3.281	1.038	3.16	52.4	82.1

Winchite (240) 323 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

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[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[2	-1	-3]	(2	4	0)	(-2	8	-4)	3.281	1.035	3.17	87.4	51.6
[2	-1	1]	(2	4	0)	(2	8	4)	3.281	1.035	3.17	51.5	89.3
[6	-3	-10]	(2	4	0)	(6	2	3)	3.281	1.033	3.18	50.6	49.3
[2	-1	2]	(2	4	0)	(-4	2	5)	3.281	1.033	3.18	87.7	77.9
[10	-5	6]	(2	4	0)	(4	2	-5)	3.281	1.033	3.18	78.1	87.0
[8	-4	19]	(2	4	0)	(-7	5	4)	3.281	1.032	3.18	80.0	52.5
[8	-4	9]	(2	4	0)	(7	5	-4)	3.281	1.032	3.18	53.9	75.2
[10	-5	-1]	(2	4	0)	(-1	-3	5)	3.281	1.031	3.18	88.6	77.1
[2	-1	1]	(2	4	0)	(-1	3	5)	3.281	1.031	3.18	77.1	89.3
[2	-1	0]	(2	4	0)	(-2	-4	5)	3.281	1.029	3.19	81.9	79.3
[10	-5	8]	(2	4	0)	(-2	4	5)	3.281	1.029	3.19	79.0	82.4
[2	-1	1]	(2	4	0)	(-6	-8	4)	3.281	1.023	3.21	50.7	89.3
[6	-3	17]	(2	4	0)	(9	1	-3)	3.281	1.021	3.21	53.2	46.4
[4	-2	-5]	(2	4	0)	(-4	2	-4)	3.281	1.019	3.22	69.6	55.3
[4	-2	-3]	(2	4	0)	(4	2	4)	3.281	1.019	3.22	59.1	63.9
[10	-5	-2]	(2	4	0)	(0	2	-5)	3.281	1.017	3.23	84.9	74.9
[10	-5	2]	(2	4	0)	(0	2	5)	3.281	1.017	3.23	75.3	83.8
[6	-3	-8]	(2	4	0)	(6	4	3)	3.281	1.014	3.24	45.3	54.0
[10	-5	12]	(2	4	0)	(-4	4	5)	3.281	1.013	3.24	87.6	73.6
[10	-5	4]	(2	4	0)	(-4	-4	5)	3.281	1.013	3.24	73.5	88.4
[10	-5	11]	(2	4	0)	(5	-1	-5)	3.281	1.013	3.24	81.2	75.7
[10	-5	9]	(2	4	0)	(-5	-1	5)	3.281	1.013	3.24	76.4	80.1
[10	-5	11]	(2	4	0)	(-3	5	5)	3.281	1.012	3.24	81.0	75.7
[10	-5	1]	(2	4	0)	(3	5	-5)	3.281	1.012	3.24	75.4	81.6
[2	-1	5]	(2	4	0)	(-9	-3	3)	3.281	1.008	3.25	47.7	50.7
[8	-4	-13]	(2	4	0)	(3	-7	4)	3.281	1.008	3.25	86.0	49.9
[8	-4	1]	(2	4	0)	(3	7	4)	3.281	1.008	3.25	50.3	82.1
[4	-2	-7]	(2	4	0)	(7	7	2)	3.281	1.007	3.26	30.7	48.2
[10	-5	-3]	(2	4	0)	(1	5	-5)	3.281	1.005	3.27	83.9	72.8
[10	-5	7]	(2	4	0)	(1	-5	-5)	3.281	1.005	3.27	72.6	84.7
[6	-3	8]	(2	4	0)	(8	8	-3)	3.281	1.002	3.28	37.0	70.8
[4	-2	9]	(2	4	0)	(-8	2	4)	3.281	1.001	3.28	68.8	54.3
[4	-2	7]	(2	4	0)	(8	2	-4)	3.281	1.001	3.28	58.5	62.7
[10	-5	13]	(2	4	0)	(-5	3	5)	3.281	1.000	3.28	85.9	71.5
[10	-5	7]	(2	4	0)	(5	3	-5)	3.281	1.000	3.28	71.8	84.7

Winchite (280) 293 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[4	-1	0]	(2	8	0)	(0	0	1)	2.039	5.119	0.40	83.8	76.8
[4	-1	5]	(2	8	0)	(1	-1	-1)	2.039	4.882	0.42	82.6	68.6
[4	-1	3]	(2	8	0)	(1	1	-1)	2.039	4.882	0.42	68.8	82.0
[4	-1	2]	(2	8	0)	(0	2	1)	2.039	4.451	0.46	57.3	89.1
[4	-1	8]	(2	8	0)	(2	0	-1)	2.039	4.031	0.51	73.9	52.5
[4	-1	-5]	(2	8	0)	(1	-1	1)	2.039	4.000	0.51	86.4	49.3
[4	-1	-3]	(2	8	0)	(1	1	1)	2.039	4.000	0.51	62.4	58.6
[4	-1	7]	(2	8	0)	(-1	3	1)	2.039	3.876	0.53	60.6	57.3
[4	-1	1]	(2	8	0)	(-1	-3	1)	2.039	3.876	0.53	47.5	83.8
[4	-1	6]	(2	8	0)	(2	2	-1)	2.039	3.680	0.55	51.6	62.6
[4	-1	-1]	(2	8	0)	(1	3	1)	2.039	3.388	0.60	42.9	70.2
[4	-1	-4]	(2	8	0)	(0	4	-1)	2.039	3.383	0.60	52.6	53.7
[4	-1	4]	(2	8	0)	(0	4	1)	2.039	3.383	0.60	41.5	75.1
[4	-1	4]	(2	8	0)	(2	4	-1)	2.039	3.005	0.68	36.0	75.1
[4	-1	-6]	(2	8	0)	(2	2	1)	2.039	2.949	0.69	51.6	45.4
[4	-1	9]	(2	8	0)	(-1	5	1)	2.039	2.939	0.69	48.2	48.2
[4	-1	-1]	(2	8	0)	(-1	-5	1)	2.039	2.939	0.69	36.2	70.2
[4	-1	9]	(2	8	0)	(3	3	-1)	2.039	2.733	0.75	43.9	48.2
[4	-1	1]	(2	8	0)	(1	5	1)	2.039	2.708	0.75	31.0	83.8
[8	-2	5]	(2	8	0)	(-1	1	2)	2.039	2.616	0.78	82.9	85.5
[8	-2	3]	(2	8	0)	(-1	-1	2)	2.039	2.616	0.78	82.0	87.3
[4	-1	-6]	(2	8	0)	(0	6	-1)	2.039	2.592	0.79	43.5	45.4
[4	-1	6]	(2	8	0)	(0	6	1)	2.039	2.592	0.79	33.5	62.6
[4	-1	-4]	(2	8	0)	(2	4	1)	2.039	2.566	0.79	37.0	53.7
[4	-1	4]	(2	8	0)	(2	0	-2)	2.039	2.536	0.80	83.1	75.1
[4	-1	-1]	(2	8	0)	(0	-2	2)	2.039	2.462	0.83	81.7	70.2
[4	-1	1]	(2	8	0)	(0	2	2)	2.039	2.462	0.83	69.5	83.8
[8	-2	7]	(2	8	0)	(-1	3	2)	2.039	2.420	0.84	69.1	78.5
[8	-2	1]	(2	8	0)	(-1	-3	2)	2.039	2.420	0.84	68.2	80.2
[4	-1	2]	(2	8	0)	(2	6	-1)	2.039	2.409	0.85	27.1	89.1
[4	-1	7]	(2	8	0)	(-3	-5	1)	2.039	2.337	0.87	31.7	57.3
[8	-2	-5]	(2	8	0)	(1	-1	2)	2.039	2.311	0.88	85.2	61.3
[8	-2	-3]	(2	8	0)	(1	1	2)	2.039	2.311	0.88	71.6	67.1
[4	-1	-3]	(2	8	0)	(1	7	-1)	2.039	2.297	0.89	30.6	58.6
[8	-2	13]	(2	8	0)	(-3	1	2)	2.039	2.277	0.90	84.5	59.9
[8	-2	11]	(2	8	0)	(3	1	-2)	2.039	2.277	0.90	71.1	65.6
[4	-1	6]	(2	8	0)	(-2	4	2)	2.039	2.210	0.92	70.2	62.6
[4	-1	2]	(2	8	0)	(-2	-4	2)	2.039	2.210	0.92	56.7	89.1
[4	-1	3]	(2	8	0)	(1	7	1)	2.039	2.181	0.93	24.6	82.0
[8	-2	-7]	(2	8	0)	(1	-3	2)	2.039	2.172	0.94	82.0	56.1
[8	-2	-1]	(2	8	0)	(1	3	2)	2.039	2.172	0.94	59.0	73.5
[4	-1	-2]	(2	8	0)	(2	6	1)	2.039	2.165	0.94	27.1	64.1
[8	-2	15]	(2	8	0)	(-3	3	2)	2.039	2.144	0.95	82.9	54.8
[8	-2	9]	(2	8	0)	(-3	-3	2)	2.039	2.144	0.95	58.6	71.8
[8	-2	9]	(2	8	0)	(-1	5	2)	2.039	2.132	0.96	58.1	71.8
[8	-2	-1]	(2	8	0)	(-1	-5	2)	2.039	2.132	0.96	57.3	73.5
[4	-1	8]	(2	8	0)	(0	8	1)	2.039	2.063	0.99	29.5	52.5
[4	-1	-4]	(2	8	0)	(2	0	2)	2.039	2.051	0.99	74.4	53.7

Winchite (280) 293 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** ***α*** **90°** ***β*** **104.54°** ***γ*** **90°**

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[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[4	-1	9]	(2	8	0)	(4	-2	-2)	2.039	1.967	1.04	85.8	48.2
[4	-1	7]	(2	8	0)	(-4	-2	2)	2.039	1.967	1.04	62.2	57.3
[8	-2	-9]	(2	8	0)	(-1	5	-2)	2.039	1.957	1.04	71.3	51.4
[8	-2	1]	(2	8	0)	(1	5	2)	2.039	1.957	1.04	48.7	80.2
[4	-1	-3]	(2	8	0)	(0	6	-2)	2.039	1.949	1.05	59.7	58.6
[4	-1	3]	(2	8	0)	(0	6	2)	2.039	1.949	1.05	48.1	82.0
[8	-2	17]	(2	8	0)	(-3	5	2)	2.039	1.936	1.05	72.2	50.3
[8	-2	7]	(2	8	0)	(-3	-5	2)	2.039	1.936	1.05	48.4	78.5
[4	-1	-6]	(2	8	0)	(-2	4	-2)	2.039	1.867	1.09	82.6	45.4
[4	-1	-2]	(2	8	0)	(2	4	2)	2.039	1.867	1.09	51.7	64.1
[4	-1	-5]	(2	8	0)	(1	9	-1)	2.039	1.863	1.09	27.7	49.3
[8	-2	11]	(2	8	0)	(-1	7	2)	2.039	1.845	1.11	50.0	65.6
[8	-2	-3]	(2	8	0)	(-1	-7	2)	2.039	1.845	1.11	49.2	67.1
[4	-1	5]	(2	8	0)	(1	9	1)	2.039	1.800	1.13	21.4	68.6
[8	-2	-11]	(2	8	0)	(3	1	2)	2.039	1.778	1.15	66.3	47.3
[4	-1	-5]	(2	8	0)	(3	7	1)	2.039	1.772	1.15	26.2	49.3
[12	-3	8]	(2	8	0)	(-2	0	3)	2.039	1.752	1.16	87.3	84.3
[4	-1	1]	(2	8	0)	(1	1	-3)	2.039	1.749	1.17	86.8	83.8
[12	-3	5]	(2	8	0)	(-1	1	3)	2.039	1.749	1.17	83.1	88.5
[8	-2	19]	(2	8	0)	(5	1	-2)	2.039	1.747	1.17	66.1	46.3
[8	-2	-11]	(2	8	0)	(1	-7	2)	2.039	1.728	1.18	62.8	47.3
[8	-2	3]	(2	8	0)	(1	7	2)	2.039	1.728	1.18	40.9	87.3
[12	-3	10]	(2	8	0)	(2	-2	-3)	2.039	1.720	1.19	82.7	79.6
[4	-1	2]	(2	8	0)	(2	2	-3)	2.039	1.720	1.19	77.4	89.1
[8	-2	19]	(2	8	0)	(3	-7	-2)	2.039	1.714	1.19	63.7	46.3
[8	-2	5]	(2	8	0)	(3	7	-2)	2.039	1.714	1.19	40.5	85.5
[8	-2	-9]	(2	8	0)	(3	3	2)	2.039	1.713	1.19	56.0	51.4
[12	-3	1]	(2	8	0)	(1	3	-3)	2.039	1.687	1.21	77.1	79.1
[12	-3	7]	(2	8	0)	(-1	3	3)	2.039	1.687	1.21	73.5	86.7
[8	-2	17]	(2	8	0)	(-5	-3	2)	2.039	1.685	1.21	55.9	50.3
[4	-1	8]	(2	8	0)	(-2	8	2)	2.039	1.685	1.21	53.5	52.5
[4	-1	0]	(2	8	0)	(2	8	-2)	2.039	1.685	1.21	40.9	76.8
[12	-3	13]	(2	8	0)	(-3	1	3)	2.039	1.683	1.21	87.9	72.9
[12	-3	11]	(2	8	0)	(3	1	-3)	2.039	1.683	1.21	78.2	77.3
[4	-1	3]	(2	8	0)	(-3	-9	1)	2.039	1.678	1.22	18.7	82.0
[12	-3	-2]	(2	8	0)	(0	2	-3)	2.039	1.676	1.22	86.4	72.4
[12	-3	2]	(2	8	0)	(0	2	3)	2.039	1.676	1.22	74.1	81.4
[4	-1	5]	(2	8	0)	(4	6	-2)	2.039	1.674	1.22	42.8	68.6
[4	-1	8]	(2	8	0)	(4	8	-1)	2.039	1.645	1.24	23.1	52.5
[4	-1	4]	(2	8	0)	(-2	4	3)	2.039	1.633	1.25	73.5	75.1
[12	-3	4]	(2	8	0)	(2	4	-3)	2.039	1.633	1.25	68.2	86.1
[12	-3	-5]	(2	8	0)	(-1	1	-3)	2.039	1.605	1.27	84.7	66.1
[4	-1	-1]	(2	8	0)	(1	1	3)	2.039	1.605	1.27	75.3	70.2
[8	-2	-7]	(2	8	0)	(3	5	2)	2.039	1.601	1.27	46.9	56.1
[8	-2	13]	(2	8	0)	(1	-9	-2)	2.039	1.597	1.28	44.3	59.9
[8	-2	-5]	(2	8	0)	(1	9	-2)	2.039	1.597	1.28	43.5	61.3
[12	-3	-4]	(2	8	0)	(0	-4	3)	2.039	1.596	1.28	77.3	68.1
[12	-3	4]	(2	8	0)	(0	4	3)	2.039	1.596	1.28	65.1	86.1

Winchite (280) 293 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[12	-3	16]	(2	8	0)	(-4	0	3)	2.039	1.589	1.28	79.3	66.6
[12	-3	-1]	(2	8	0)	(1	5	-3)	2.039	1.580	1.29	68.4	74.6
[4	-1	3]	(2	8	0)	(-1	5	3)	2.039	1.580	1.29	64.9	82.0
[8	-2	15]	(2	8	0)	(5	5	-2)	2.039	1.578	1.29	46.9	54.8
[4	-1	6]	(2	8	0)	(-4	2	3)	2.039	1.565	1.30	88.6	62.6
[12	-3	14]	(2	8	0)	(4	2	-3)	2.039	1.565	1.30	70.2	70.7
[12	-3	-7]	(2	8	0)	(1	-3	3)	2.039	1.556	1.31	86.2	62.2
[12	-3	-1]	(2	8	0)	(1	3	3)	2.039	1.556	1.31	66.3	74.6
[4	-1	-3]	(2	8	0)	(3	9	1)	2.039	1.549	1.32	20.1	58.6
[12	-3	17]	(2	8	0)	(-3	5	3)	2.039	1.531	1.33	74.1	64.6
[12	-3	7]	(2	8	0)	(3	5	-3)	2.039	1.531	1.33	60.4	86.7
[8	-2	5]	(2	8	0)	(1	9	2)	2.039	1.519	1.34	35.2	85.5
[4	-1	0]	(2	8	0)	(2	8	2)	2.039	1.517	1.34	36.1	76.8
[12	-3	14]	(2	8	0)	(2	-6	-3)	2.039	1.514	1.35	65.5	70.7
[12	-3	2]	(2	8	0)	(2	6	-3)	2.039	1.514	1.35	60.3	81.4
[8	-2	3]	(2	8	0)	(-3	-9	2)	2.039	1.509	1.35	34.9	87.3
[12	-3	20]	(2	8	0)	(4	-4	-3)	2.039	1.499	1.36	82.7	59.0
[4	-1	4]	(2	8	0)	(4	4	-3)	2.039	1.499	1.36	61.6	75.1
[12	-3	-8]	(2	8	0)	(2	0	3)	2.039	1.492	1.37	76.9	60.4
[12	-3	-10]	(2	8	0)	(-2	2	-3)	2.039	1.472	1.39	85.6	56.9
[4	-1	-2]	(2	8	0)	(2	2	3)	2.039	1.472	1.39	68.2	64.1
[4	-1	-3]	(2	8	0)	(1	-5	3)	2.039	1.471	1.39	77.9	58.6
[12	-3	1]	(2	8	0)	(1	5	3)	2.039	1.471	1.39	58.2	79.1
[8	-2	-5]	(2	8	0)	(3	7	2)	2.039	1.468	1.39	39.3	61.3
[4	-1	7]	(2	8	0)	(5	-1	-3)	2.039	1.463	1.39	80.7	57.3
[12	-3	19]	(2	8	0)	(-5	-1	3)	2.039	1.463	1.39	72.0	60.8
[4	-1	-1]	(2	8	0)	(1	7	-3)	2.039	1.452	1.40	61.1	70.2
[12	-3	11]	(2	8	0)	(1	-7	-3)	2.039	1.452	1.40	57.6	77.3
[8	-2	13]	(2	8	0)	(5	7	-2)	2.039	1.451	1.41	39.4	59.9
[12	-3	23]	(2	8	0)	(-5	3	3)	2.039	1.426	1.43	89.1	54.0
[12	-3	17]	(2	8	0)	(5	3	-3)	2.039	1.426	1.43	63.6	64.6
[4	-1	-4]	(2	8	0)	(2	-4	3)	2.039	1.417	1.44	86.1	53.7
[12	-3	-4]	(2	8	0)	(2	4	3)	2.039	1.417	1.44	60.0	68.1
[12	-3	19]	(2	8	0)	(3	-7	-3)	2.039	1.413	1.44	66.7	60.8
[12	-3	5]	(2	8	0)	(3	7	-3)	2.039	1.413	1.44	53.3	88.5
[12	-3	22]	(2	8	0)	(4	-6	-3)	2.039	1.405	1.45	75.0	55.6
[12	-3	10]	(2	8	0)	(4	6	-3)	2.039	1.405	1.45	54.1	79.6
[4	-1	-5]	(2	8	0)	(4	6	2)	2.039	1.385	1.47	43.7	49.3
[12	-3	16]	(2	8	0)	(-2	8	3)	2.039	1.383	1.47	58.8	66.6
[4	-1	0]	(2	8	0)	(-2	-8	3)	2.039	1.383	1.47	53.7	76.8
[4	-1	1]	(2	8	0)	(1	7	3)	2.039	1.366	1.49	51.2	83.8
[12	-3	-13]	(2	8	0)	(-3	1	-3)	2.039	1.363	1.50	78.4	52.1
[12	-3	-11]	(2	8	0)	(3	1	3)	2.039	1.363	1.50	70.3	55.2
[12	-3	-8]	(2	8	0)	(0	8	-3)	2.039	1.360	1.50	62.6	60.4
[12	-3	8]	(2	8	0)	(0	8	3)	2.039	1.360	1.50	50.9	84.3
[12	-3	25]	(2	8	0)	(5	-5	-3)	2.039	1.360	1.50	83.0	51.0
[4	-1	5]	(2	8	0)	(5	5	-3)	2.039	1.360	1.50	56.0	68.6
[12	-3	-2]	(2	8	0)	(2	6	3)	2.039	1.336	1.53	52.7	72.4

Winchite (280) 293 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[8	-2	-3]	(2	8	0)	(3	9	2)	2.039	1.333	1.53	33.2	67.1
[12	-3	26]	(2	8	0)	(-6	2	3)	2.039	1.329	1.53	81.9	49.6
[12	-3	22]	(2	8	0)	(6	2	-3)	2.039	1.329	1.53	66.0	55.6
[4	-1	2]	(2	8	0)	(-2	0	4)	2.039	1.322	1.54	89.6	89.1
[12	-3	-5]	(2	8	0)	(1	9	-3)	2.039	1.321	1.54	55.1	66.1
[12	-3	13]	(2	8	0)	(-1	9	3)	2.039	1.321	1.54	51.7	72.9
[8	-2	11]	(2	8	0)	(-5	-9	2)	2.039	1.320	1.54	33.3	65.6
[16	-4	3]	(2	8	0)	(1	1	-4)	2.039	1.309	1.56	89.2	82.0
[16	-4	5]	(2	8	0)	(1	-1	-4)	2.039	1.309	1.56	83.3	85.5
[16	-4	13]	(2	8	0)	(3	-1	-4)	2.039	1.303	1.57	90.0	80.2
[16	-4	11]	(2	8	0)	(-3	-1	4)	2.039	1.303	1.57	82.5	83.7
[4	-1	8]	(2	8	0)	(-4	8	3)	2.039	1.299	1.57	68.3	52.5
[12	-3	8]	(2	8	0)	(-4	-8	3)	2.039	1.299	1.57	47.8	84.3
[12	-3	28]	(2	8	0)	(6	-4	-3)	2.039	1.288	1.58	89.6	46.9
[12	-3	20]	(2	8	0)	(6	4	-3)	2.039	1.288	1.58	58.4	59.0
[16	-4	1]	(2	8	0)	(-1	-3	4)	2.039	1.282	1.59	81.8	78.5
[16	-4	7]	(2	8	0)	(-1	3	4)	2.039	1.282	1.59	75.9	89.1
[12	-3	-17]	(2	8	0)	(3	-5	3)	2.039	1.278	1.59	86.1	46.6
[12	-3	-7]	(2	8	0)	(3	5	3)	2.039	1.278	1.59	55.1	62.2
[16	-4	15]	(2	8	0)	(3	-3	-4)	2.039	1.276	1.60	82.7	76.8
[16	-4	9]	(2	8	0)	(3	3	-4)	2.039	1.276	1.60	75.1	87.3
[4	-1	9]	(2	8	0)	(5	-7	-3)	2.039	1.275	1.60	76.0	48.2
[12	-3	13]	(2	8	0)	(5	7	-3)	2.039	1.275	1.60	49.2	72.9
[4	-1	3]	(2	8	0)	(-2	4	4)	2.039	1.268	1.61	75.7	82.0
[4	-1	1]	(2	8	0)	(2	4	-4)	2.039	1.268	1.61	74.8	83.8
[4	-1	8]	(2	8	0)	(-6	-8	2)	2.039	1.268	1.61	37.2	52.5
[8	-2	1]	(2	8	0)	(0	2	4)	2.039	1.267	1.61	76.5	80.2
[8	-2	9]	(2	8	0)	(4	-2	-4)	2.039	1.256	1.62	89.6	71.8
[8	-2	7]	(2	8	0)	(4	2	-4)	2.039	1.256	1.62	75.8	78.5
[12	-3	-13]	(2	8	0)	(1	-9	3)	2.039	1.255	1.62	64.4	52.1
[12	-3	5]	(2	8	0)	(1	9	3)	2.039	1.255	1.62	45.4	88.5
[12	-3	-16]	(2	8	0)	(4	0	3)	2.039	1.247	1.63	72.4	47.9
[12	-3	-16]	(2	8	0)	(-2	8	-3)	2.039	1.244	1.64	72.0	47.9
[4	-1	0]	(2	8	0)	(2	8	3)	2.039	1.244	1.64	46.5	76.8
[4	-1	-6]	(2	8	0)	(4	-2	3)	2.039	1.236	1.65	79.9	45.4
[12	-3	-14]	(2	8	0)	(4	2	3)	2.039	1.236	1.65	65.0	50.7
[16	-4	-1]	(2	8	0)	(1	5	-4)	2.039	1.233	1.65	74.9	75.1
[16	-4	9]	(2	8	0)	(1	-5	-4)	2.039	1.233	1.65	69.1	87.3
[16	-4	17]	(2	8	0)	(-3	5	4)	2.039	1.228	1.66	75.8	73.4
[16	-4	7]	(2	8	0)	(3	5	-4)	2.039	1.228	1.66	68.3	89.1
[16	-4	-3]	(2	8	0)	(1	1	4)	2.039	1.225	1.66	77.3	71.8
[12	-3	29]	(2	8	0)	(-7	1	3)	2.039	1.223	1.67	75.8	45.7
[4	-1	9]	(2	8	0)	(7	1	-3)	2.039	1.223	1.67	68.4	48.2
[16	-4	21]	(2	8	0)	(-5	1	4)	2.039	1.210	1.68	83.7	67.1
[16	-4	19]	(2	8	0)	(5	1	-4)	2.039	1.210	1.68	76.7	70.2
[12	-3	-5]	(2	8	0)	(3	7	3)	2.039	1.208	1.69	48.5	66.1
[16	-4	-7]	(2	8	0)	(-1	3	-4)	2.039	1.203	1.69	88.5	65.6
[16	-4	-1]	(2	8	0)	(1	3	4)	2.039	1.203	1.69	70.4	75.1

Winchite (280) 293 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** ***α*** **90°** ***β*** **104.54°** ***γ*** **90°**

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[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[4	-1	-4]	(2	8	0)	(4	4	3)	2.039	1.202	1.70	57.9	53.7
[12	-3	25]	(2	8	0)	(-7	-3	3)	2.039	1.201	1.70	61.2	51.0
[16	-4	23]	(2	8	0)	(-5	3	4)	2.039	1.189	1.71	89.3	64.1
[16	-4	17]	(2	8	0)	(5	3	-4)	2.039	1.189	1.71	69.8	73.4
[12	-3	29]	(2	8	0)	(5	-9	-3)	2.039	1.184	1.72	69.9	45.7
[12	-3	11]	(2	8	0)	(5	9	-3)	2.039	1.184	1.72	43.5	77.3
[8	-2	-3]	(2	8	0)	(0	-6	4)	2.039	1.177	1.73	75.2	67.1
[8	-2	3]	(2	8	0)	(0	6	4)	2.039	1.177	1.73	63.1	87.3
[16	-4	-3]	(2	8	0)	(1	7	-4)	2.039	1.169	1.74	68.6	71.8
[16	-4	11]	(2	8	0)	(1	-7	-4)	2.039	1.169	1.74	62.9	83.7
[8	-2	11]	(2	8	0)	(-4	6	4)	2.039	1.168	1.75	76.1	65.6
[8	-2	5]	(2	8	0)	(-4	-6	4)	2.039	1.168	1.75	62.4	85.5
[16	-4	19]	(2	8	0)	(-3	7	4)	2.039	1.165	1.75	69.5	70.2
[16	-4	5]	(2	8	0)	(-3	-7	4)	2.039	1.165	1.75	62.1	85.5
[4	-1	-2]	(2	8	0)	(2	0	4)	2.039	1.165	1.75	78.3	64.1
[16	-4	-9]	(2	8	0)	(1	-5	4)	2.039	1.163	1.75	81.8	62.7
[16	-4	1]	(2	8	0)	(1	5	4)	2.039	1.163	1.75	63.8	78.5
[12	-3	23]	(2	8	0)	(-7	-5	3)	2.039	1.160	1.76	54.4	54.0
[12	-3	16]	(2	8	0)	(6	8	-3)	2.039	1.154	1.77	45.5	66.6
[12	-3	-10]	(2	8	0)	(4	6	3)	2.039	1.152	1.77	51.3	56.9
[16	-4	25]	(2	8	0)	(-5	5	4)	2.039	1.150	1.77	82.7	61.3
[16	-4	15]	(2	8	0)	(5	5	-4)	2.039	1.150	1.77	63.3	76.8
[4	-1	6]	(2	8	0)	(-6	0	4)	2.039	1.147	1.78	77.7	62.6
[4	-1	4]	(2	8	0)	(-2	8	4)	2.039	1.140	1.79	63.2	75.1
[4	-1	0]	(2	8	0)	(-2	-8	4)	2.039	1.140	1.79	62.4	76.8
[8	-2	-11]	(2	8	0)	(5	9	2)	2.039	1.133	1.80	35.7	47.3
[4	-1	-3]	(2	8	0)	(2	-4	4)	2.039	1.128	1.81	88.2	58.6
[4	-1	-1]	(2	8	0)	(2	4	4)	2.039	1.128	1.81	65.1	70.2
[8	-2	19]	(2	8	0)	(-7	-9	2)	2.039	1.121	1.82	35.9	46.3
[12	-3	-17]	(2	8	0)	(5	3	3)	2.039	1.118	1.82	60.7	46.6
[4	-1	7]	(2	8	0)	(-6	4	4)	2.039	1.112	1.83	89.0	57.3
[4	-1	5]	(2	8	0)	(-6	-4	4)	2.039	1.112	1.83	64.6	68.6
[16	-4	-11]	(2	8	0)	(-1	7	-4)	2.039	1.109	1.84	75.7	59.9
[16	-4	3]	(2	8	0)	(1	7	4)	2.039	1.109	1.84	57.9	82.0
[4	-1	7]	(2	8	0)	(7	7	-3)	2.039	1.107	1.84	48.3	57.3
[16	-4	-5]	(2	8	0)	(1	9	-4)	2.039	1.098	1.86	63.1	68.6
[16	-4	13]	(2	8	0)	(1	-9	-4)	2.039	1.098	1.86	57.4	80.2
[16	-4	27]	(2	8	0)	(-5	7	4)	2.039	1.097	1.86	76.6	58.6
[16	-4	13]	(2	8	0)	(-5	-7	4)	2.039	1.097	1.86	57.4	80.2
[16	-4	21]	(2	8	0)	(-3	9	4)	2.039	1.094	1.86	64.0	67.1
[16	-4	3]	(2	8	0)	(-3	-9	4)	2.039	1.094	1.86	56.7	82.0
[16	-4	-13]	(2	8	0)	(3	-1	4)	2.039	1.094	1.86	79.4	57.3
[16	-4	-11]	(2	8	0)	(3	1	4)	2.039	1.094	1.86	72.9	59.9
[12	-3	-8]	(2	8	0)	(4	8	3)	2.039	1.091	1.87	45.4	60.4
[12	-3	28]	(2	8	0)	(-8	-4	3)	2.039	1.085	1.88	57.4	46.9
[4	-1	-5]	(2	8	0)	(5	5	3)	2.039	1.085	1.88	54.3	49.3
[16	-4	-15]	(2	8	0)	(3	-3	4)	2.039	1.078	1.89	85.8	54.8
[16	-4	-9]	(2	8	0)	(3	3	4)	2.039	1.078	1.89	66.6	62.7

Winchite (280) 293 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[16	-4	29]	(2	8	0)	(7	-1	-4)	2.039	1.076	1.90	78.9	56.0
[16	-4	27]	(2	8	0)	(-7	-1	4)	2.039	1.076	1.90	72.5	58.6
[16	-4	31]	(2	8	0)	(7	-3	-4)	2.039	1.061	1.92	85.2	53.6
[16	-4	25]	(2	8	0)	(-7	-3	4)	2.039	1.061	1.92	66.2	61.3
[20	-5	8]	(2	8	0)	(-2	0	5)	2.039	1.057	1.93	89.1	88.1
[20	-5	13]	(2	8	0)	(-3	1	5)	2.039	1.053	1.94	88.8	84.8
[20	-5	11]	(2	8	0)	(-3	-1	5)	2.039	1.053	1.94	85.2	87.6
[20	-5	6]	(2	8	0)	(2	2	-5)	2.039	1.050	1.94	84.9	85.2
[4	-1	2]	(2	8	0)	(-2	2	5)	2.039	1.050	1.94	83.0	89.1
[16	-4	-17]	(2	8	0)	(3	-5	4)	2.039	1.048	1.94	88.0	52.5
[16	-4	-7]	(2	8	0)	(3	5	4)	2.039	1.048	1.94	60.6	65.6
[12	-3	26]	(2	8	0)	(-8	-6	3)	2.039	1.048	1.95	51.3	49.6
[16	-4	-13]	(2	8	0)	(-1	9	-4)	2.039	1.047	1.95	70.3	57.3
[16	-4	5]	(2	8	0)	(1	9	4)	2.039	1.047	1.95	52.6	85.5
[12	-3	19]	(2	8	0)	(7	9	-3)	2.039	1.045	1.95	42.8	60.8
[20	-5	3]	(2	8	0)	(1	1	-5)	2.039	1.044	1.95	89.4	80.9
[4	-1	1]	(2	8	0)	(-1	1	5)	2.039	1.044	1.95	83.4	83.8
[12	-3	-13]	(2	8	0)	(5	7	3)	2.039	1.041	1.96	48.4	52.1
[20	-5	16]	(2	8	0)	(4	0	-5)	2.039	1.040	1.96	85.6	80.5
[4	-1	3]	(2	8	0)	(3	-3	-5)	2.039	1.039	1.96	82.8	82.0
[20	-5	9]	(2	8	0)	(3	3	-5)	2.039	1.039	1.96	79.2	89.5
[16	-4	29]	(2	8	0)	(5	-9	-4)	2.039	1.038	1.97	71.2	56.0
[16	-4	11]	(2	8	0)	(5	9	-4)	2.039	1.038	1.97	52.1	83.7
[4	-1	-4]	(2	8	0)	(2	-8	4)	2.039	1.035	1.97	76.4	53.7
[4	-1	0]	(2	8	0)	(2	8	4)	2.039	1.035	1.97	53.5	76.8
[20	-5	18]	(2	8	0)	(-4	2	5)	2.039	1.033	1.97	88.5	77.8
[20	-5	14]	(2	8	0)	(-4	-2	5)	2.039	1.033	1.97	79.6	83.4
[16	-4	33]	(2	8	0)	(-7	5	4)	2.039	1.032	1.97	88.8	51.4
[16	-4	23]	(2	8	0)	(-7	-5	4)	2.039	1.032	1.97	60.3	64.1
[20	-5	1]	(2	8	0)	(1	3	-5)	2.039	1.031	1.98	84.7	78.2
[20	-5	7]	(2	8	0)	(1	-3	-5)	2.039	1.031	1.98	77.5	86.6
[20	-5	4]	(2	8	0)	(2	4	-5)	2.039	1.029	1.98	79.0	82.4
[20	-5	12]	(2	8	0)	(2	-4	-5)	2.039	1.029	1.98	77.2	86.2
[4	-1	4]	(2	8	0)	(-6	-8	4)	2.039	1.023	1.99	53.2	75.1
[8	-2	-9]	(2	8	0)	(4	-2	4)	2.039	1.019	2.00	80.5	51.4
[8	-2	-7]	(2	8	0)	(4	2	4)	2.039	1.019	2.00	68.3	56.1
[20	-5	-2]	(2	8	0)	(0	-2	5)	2.039	1.017	2.00	89.7	74.1
[20	-5	2]	(2	8	0)	(0	2	5)	2.039	1.017	2.00	78.0	79.6
[4	-1	4]	(2	8	0)	(-4	4	5)	2.039	1.013	2.01	82.7	75.1
[20	-5	12]	(2	8	0)	(4	4	-5)	2.039	1.013	2.01	73.8	86.2
[20	-5	21]	(2	8	0)	(5	-1	-5)	2.039	1.013	2.01	86.0	73.7
[20	-5	19]	(2	8	0)	(-5	-1	5)	2.039	1.013	2.01	80.1	76.4
[20	-5	17]	(2	8	0)	(-3	5	5)	2.039	1.012	2.01	77.1	79.2
[20	-5	7]	(2	8	0)	(-3	-5	5)	2.039	1.012	2.01	73.5	86.6
[16	-4	-19]	(2	8	0)	(-3	7	-4)	2.039	1.008	2.02	82.3	50.3
[16	-4	-5]	(2	8	0)	(3	7	4)	2.039	1.008	2.02	55.0	68.6
[20	-5	-1]	(2	8	0)	(1	5	-5)	2.039	1.005	2.03	79.0	75.4
[20	-5	9]	(2	8	0)	(1	-5	-5)	2.039	1.005	2.03	71.8	89.5

Winchite (280) 293 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** ***α*** **90°** ***β*** **104.54°** ***γ*** **90°**

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[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	*θ*°	ZA^C°
[4	-1	8]	(2	8	0)	(8	8	-3)	2.039	1.002	2.04	45.8	52.5
[8	-2	17]	(2	8	0)	(8	-2	-4)	2.039	1.001	2.04	80.0	50.3
[8	-2	15]	(2	8	0)	(-8	-2	4)	2.039	1.001	2.04	68.0	54.8
[20	-5	23]	(2	8	0)	(-5	3	5)	2.039	1.000	2.04	88.2	71.1
[20	-5	17]	(2	8	0)	(5	3	-5)	2.039	1.000	2.04	74.4	79.2

Winchite (310) 367 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[1	-3	0]	(3	1	0)	(0	0	1)	3.141	5.119	0.61	75.7	87.4
[1	-3	4]	(3	1	0)	(-1	1	1)	3.141	4.882	0.64	77.2	71.2
[1	-3	-2]	(3	1	0)	(1	1	-1)	3.141	4.882	0.64	71.6	76.6
[1	-3	6]	(3	1	0)	(0	2	1)	3.141	4.451	0.71	72.5	62.0
[1	-3	2]	(3	1	0)	(2	0	-1)	3.141	4.031	0.78	50.4	81.6
[1	-3	-4]	(3	1	0)	(1	-1	1)	3.141	4.000	0.79	55.4	66.7
[1	-3	2]	(3	1	0)	(1	1	1)	3.141	4.000	0.79	49.9	81.6
[1	-3	-8]	(3	1	0)	(1	3	-1)	3.141	3.876	0.81	71.0	50.8
[1	-3	8]	(3	1	0)	(-2	2	1)	3.141	3.680	0.85	59.3	54.1
[1	-3	-4]	(3	1	0)	(2	2	-1)	3.141	3.680	0.85	49.2	66.7
[1	-3	8]	(3	1	0)	(1	3	1)	3.141	3.388	0.93	52.3	54.1
[1	-3	-2]	(3	1	0)	(2	0	1)	3.141	3.121	1.01	37.3	76.6
[1	-3	6]	(3	1	0)	(3	-1	-1)	3.141	3.025	1.04	40.4	62.0
[1	-3	-8]	(3	1	0)	(2	-2	1)	3.141	2.949	1.07	46.0	50.8
[1	-3	4]	(3	1	0)	(2	2	1)	3.141	2.949	1.07	36.1	71.2
[1	-3	-6]	(3	1	0)	(-3	-3	1)	3.141	2.733	1.15	37.5	58.1
[1	-3	2]	(3	1	0)	(-1	1	2)	3.141	2.616	1.20	89.6	81.6
[1	-3	-1]	(3	1	0)	(1	1	-2)	3.141	2.616	1.20	87.6	82.0
[1	-3	10]	(3	1	0)	(2	4	1)	3.141	2.566	1.22	41.2	47.5
[1	-3	1]	(3	1	0)	(-2	0	2)	3.141	2.536	1.24	73.8	87.1
[1	-3	-3]	(3	1	0)	(0	-2	2)	3.141	2.462	1.28	79.0	71.5
[1	-3	3]	(3	1	0)	(0	2	2)	3.141	2.462	1.28	73.4	76.3
[1	-3	5]	(3	1	0)	(-1	3	2)	3.141	2.420	1.30	86.9	66.4
[1	-3	-4]	(3	1	0)	(-1	-3	2)	3.141	2.420	1.30	85.1	66.7
[1	-3	-6]	(3	1	0)	(3	-1	1)	3.141	2.418	1.30	32.6	58.1
[1	-3	0]	(3	1	0)	(3	1	1)	3.141	2.418	1.30	27.2	87.4
[1	-3	4]	(3	1	0)	(4	0	-1)	3.141	2.405	1.31	28.7	71.2
[1	-3	10]	(3	1	0)	(-4	2	1)	3.141	2.324	1.35	36.6	47.5
[1	-3	-2]	(3	1	0)	(4	2	-1)	3.141	2.324	1.35	26.9	76.6
[1	-3	-2]	(3	1	0)	(-1	1	-2)	3.141	2.311	1.36	63.9	76.6
[1	-3	1]	(3	1	0)	(1	1	2)	3.141	2.311	1.36	61.1	87.1
[1	-3	3]	(3	1	0)	(-3	1	2)	3.141	2.277	1.38	62.4	76.3
[1	-3	0]	(3	1	0)	(3	1	-2)	3.141	2.277	1.38	59.5	87.4
[1	-3	6]	(3	1	0)	(3	3	1)	3.141	2.261	1.39	29.0	62.0
[1	-3	7]	(3	1	0)	(2	-4	-2)	3.141	2.210	1.42	80.9	57.8
[1	-3	-5]	(3	1	0)	(-2	-4	2)	3.141	2.210	1.42	70.9	62.2
[1	-3	-5]	(3	1	0)	(1	-3	2)	3.141	2.172	1.45	68.2	62.2
[1	-3	4]	(3	1	0)	(1	3	2)	3.141	2.172	1.45	60.2	71.2
[1	-3	6]	(3	1	0)	(-3	3	2)	3.141	2.144	1.46	66.7	62.0
[1	-3	-3]	(3	1	0)	(3	3	-2)	3.141	2.144	1.46	58.7	71.5
[1	-3	8]	(3	1	0)	(1	-5	-2)	3.141	2.132	1.47	84.9	54.1
[1	-3	-7]	(3	1	0)	(1	5	-2)	3.141	2.132	1.47	83.3	54.3
[1	-3	-8]	(3	1	0)	(-4	-4	1)	3.141	2.122	1.48	31.2	50.8
[1	-3	-1]	(3	1	0)	(2	0	2)	3.141	2.051	1.53	51.6	82.0
[1	-3	5]	(3	1	0)	(4	-2	-2)	3.141	1.967	1.60	54.2	66.4
[1	-3	-1]	(3	1	0)	(4	2	-2)	3.141	1.967	1.60	48.7	82.0
[1	-3	-8]	(3	1	0)	(-1	5	-2)	3.141	1.957	1.60	72.7	50.8
[1	-3	7]	(3	1	0)	(1	5	2)	3.141	1.957	1.60	61.0	57.8

Winchite (310) 367 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[1	-3	-9]	(3	1	0)	(0	-6	2)	3.141	1.949	1.61	85.7	47.7
[1	-3	9]	(3	1	0)	(0	6	2)	3.141	1.949	1.61	72.5	50.6
[1	-3	8]	(3	1	0)	(5	-1	-1)	3.141	1.944	1.62	27.0	54.1
[1	-3	2]	(3	1	0)	(-5	-1	1)	3.141	1.944	1.62	21.8	81.6
[1	-3	9]	(3	1	0)	(-3	5	2)	3.141	1.936	1.62	71.4	50.6
[1	-3	-6]	(3	1	0)	(3	5	-2)	3.141	1.936	1.62	59.6	58.1
[1	-3	2]	(3	1	0)	(4	2	1)	3.141	1.934	1.62	21.7	81.6
[1	-3	-7]	(3	1	0)	(2	-4	2)	3.141	1.867	1.68	60.4	54.3
[1	-3	5]	(3	1	0)	(2	4	2)	3.141	1.867	1.68	50.4	66.4
[1	-3	-4]	(3	1	0)	(5	3	-1)	3.141	1.860	1.69	22.5	66.7
[1	-3	8]	(3	1	0)	(4	4	1)	3.141	1.813	1.73	25.1	54.1
[1	-3	-3]	(3	1	0)	(-3	1	-2)	3.141	1.778	1.77	45.1	71.5
[1	-3	0]	(3	1	0)	(3	1	2)	3.141	1.778	1.77	42.3	87.4
[3	-9	2]	(3	1	0)	(-2	0	3)	3.141	1.752	1.79	83.8	88.9
[3	-9	-2]	(3	1	0)	(-1	-1	3)	3.141	1.749	1.80	86.8	83.8
[3	-9	4]	(3	1	0)	(1	-1	-3)	3.141	1.749	1.80	84.9	85.2
[1	-3	4]	(3	1	0)	(5	-1	-2)	3.141	1.747	1.80	44.3	71.2
[1	-3	1]	(3	1	0)	(-5	-1	2)	3.141	1.747	1.80	41.4	87.1
[1	-3	10]	(3	1	0)	(1	7	2)	3.141	1.728	1.82	62.5	47.5
[3	-9	8]	(3	1	0)	(-2	2	3)	3.141	1.720	1.83	85.8	78.0
[3	-9	-4]	(3	1	0)	(2	2	-3)	3.141	1.720	1.83	82.0	80.2
[1	-3	-9]	(3	1	0)	(-3	-7	2)	3.141	1.714	1.83	61.3	47.7
[1	-3	-6]	(3	1	0)	(3	-3	2)	3.141	1.713	1.83	49.7	58.1
[1	-3	3]	(3	1	0)	(3	3	2)	3.141	1.713	1.83	41.8	76.3
[3	-9	-8]	(3	1	0)	(-1	-3	3)	3.141	1.687	1.86	88.8	73.2
[3	-9	10]	(3	1	0)	(1	-3	-3)	3.141	1.687	1.86	83.2	74.6
[1	-3	7]	(3	1	0)	(5	-3	-2)	3.141	1.685	1.86	48.8	57.8
[1	-3	-2]	(3	1	0)	(-5	-3	2)	3.141	1.685	1.86	40.9	76.6
[1	-3	2]	(3	1	0)	(3	-1	-3)	3.141	1.683	1.87	74.9	81.6
[1	-3	0]	(3	1	0)	(-3	-1	3)	3.141	1.683	1.87	72.9	87.4
[1	-3	-2]	(3	1	0)	(0	-2	3)	3.141	1.676	1.87	77.8	76.6
[1	-3	2]	(3	1	0)	(0	2	3)	3.141	1.676	1.87	74.0	81.6
[1	-3	-7]	(3	1	0)	(4	6	-2)	3.141	1.674	1.88	51.2	54.3
[1	-3	-8]	(3	1	0)	(5	-1	1)	3.141	1.650	1.90	23.7	50.8
[1	-3	-2]	(3	1	0)	(5	1	1)	3.141	1.650	1.90	18.7	76.6
[1	-3	6]	(3	1	0)	(6	0	-1)	3.141	1.639	1.92	20.6	62.0
[3	-9	14]	(3	1	0)	(2	-4	-3)	3.141	1.633	1.92	87.8	68.0
[3	-9	-10]	(3	1	0)	(2	4	-3)	3.141	1.633	1.92	80.6	69.9
[3	-9	-4]	(3	1	0)	(1	-1	3)	3.141	1.605	1.96	67.5	80.2
[3	-9	2]	(3	1	0)	(1	1	3)	3.141	1.605	1.96	65.6	88.9
[1	-3	-9]	(3	1	0)	(3	-5	2)	3.141	1.601	1.96	55.0	47.7
[1	-3	6]	(3	1	0)	(3	5	2)	3.141	1.601	1.96	43.3	62.0
[1	-3	4]	(3	1	0)	(5	3	1)	3.141	1.597	1.97	18.6	71.2
[1	-3	-4]	(3	1	0)	(0	-4	3)	3.141	1.596	1.97	80.2	66.7
[1	-3	4]	(3	1	0)	(0	4	3)	3.141	1.596	1.97	73.0	71.2
[3	-9	4]	(3	1	0)	(4	0	-3)	3.141	1.589	1.98	64.8	85.2
[3	-9	-14]	(3	1	0)	(1	5	-3)	3.141	1.580	1.99	89.4	63.7
[3	-9	16]	(3	1	0)	(1	-5	-3)	3.141	1.580	1.99	81.8	64.9

Winchite (310) 367 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[1	-3	10]	(3	1	0)	(5	-5	-2)	3.141	1.578	1.99	54.1	47.5
[1	-3	-5]	(3	1	0)	(-5	-5	2)	3.141	1.578	1.99	42.4	62.2
[3	-9	10]	(3	1	0)	(4	-2	-3)	3.141	1.565	2.01	67.1	74.6
[3	-9	-2]	(3	1	0)	(-4	-2	3)	3.141	1.565	2.01	63.3	83.8
[3	-9	8]	(3	1	0)	(1	3	3)	3.141	1.556	2.02	64.5	78.0
[1	-3	-6]	(3	1	0)	(6	4	-1)	3.141	1.541	2.04	20.1	58.1
[1	-3	-5]	(3	1	0)	(-4	2	-2)	3.141	1.537	2.04	41.1	62.2
[1	-3	1]	(3	1	0)	(4	2	2)	3.141	1.537	2.04	35.6	87.1
[1	-3	3]	(3	1	0)	(6	0	-2)	3.141	1.534	2.05	36.7	76.3
[1	-3	6]	(3	1	0)	(-3	5	3)	3.141	1.531	2.05	79.7	62.0
[1	-3	-4]	(3	1	0)	(3	5	-3)	3.141	1.531	2.05	71.0	66.7
[3	-9	20]	(3	1	0)	(2	-6	-3)	3.141	1.514	2.07	89.7	59.2
[3	-9	-16]	(3	1	0)	(-2	-6	3)	3.141	1.514	2.07	79.6	60.8
[1	-3	10]	(3	1	0)	(5	5	1)	3.141	1.506	2.09	22.7	47.5
[3	-9	16]	(3	1	0)	(-4	4	3)	3.141	1.499	2.10	69.9	64.9
[3	-9	-8]	(3	1	0)	(4	4	-3)	3.141	1.499	2.10	62.6	73.2
[3	-9	-2]	(3	1	0)	(2	0	3)	3.141	1.492	2.10	58.4	83.8
[3	-9	-8]	(3	1	0)	(-2	2	-3)	3.141	1.472	2.13	60.7	73.2
[3	-9	4]	(3	1	0)	(2	2	3)	3.141	1.472	2.13	56.9	85.2
[3	-9	-16]	(3	1	0)	(1	-5	3)	3.141	1.471	2.14	72.9	60.8
[3	-9	14]	(3	1	0)	(1	5	3)	3.141	1.471	2.14	64.2	68.0
[1	-3	9]	(3	1	0)	(3	7	2)	3.141	1.468	2.14	45.9	50.6
[3	-9	8]	(3	1	0)	(5	-1	-3)	3.141	1.463	2.15	58.1	78.0
[3	-9	2]	(3	1	0)	(-5	-1	3)	3.141	1.463	2.15	56.1	88.9
[1	-3	9]	(3	1	0)	(6	-4	-2)	3.141	1.452	2.16	45.3	50.6
[1	-3	-3]	(3	1	0)	(-6	-4	2)	3.141	1.452	2.16	35.4	71.5
[3	-9	-20]	(3	1	0)	(1	7	-3)	3.141	1.452	2.16	87.9	55.5
[3	-9	22]	(3	1	0)	(1	-7	-3)	3.141	1.452	2.16	80.9	56.5
[1	-3	-8]	(3	1	0)	(5	7	-2)	3.141	1.451	2.17	45.1	50.8
[3	-9	14]	(3	1	0)	(-5	3	3)	3.141	1.426	2.20	60.8	68.0
[3	-9	-4]	(3	1	0)	(5	3	-3)	3.141	1.426	2.20	55.2	80.2
[1	-3	-6]	(3	1	0)	(6	0	1)	3.141	1.421	2.21	18.4	58.1
[3	-9	-14]	(3	1	0)	(2	-4	3)	3.141	1.417	2.22	63.7	63.7
[3	-9	10]	(3	1	0)	(2	4	3)	3.141	1.417	2.22	56.5	74.6
[1	-3	8]	(3	1	0)	(3	-7	-3)	3.141	1.413	2.22	82.1	54.1
[1	-3	-6]	(3	1	0)	(-3	-7	3)	3.141	1.413	2.22	70.8	58.1
[3	-9	22]	(3	1	0)	(4	-6	-3)	3.141	1.405	2.24	72.8	56.5
[3	-9	-14]	(3	1	0)	(-4	-6	3)	3.141	1.405	2.24	62.8	63.7
[1	-3	10]	(3	1	0)	(7	-1	-1)	3.141	1.403	2.24	21.1	47.5
[1	-3	4]	(3	1	0)	(-7	-1	1)	3.141	1.403	2.24	16.3	71.2
[1	-3	0]	(3	1	0)	(6	2	1)	3.141	1.403	2.24	15.4	87.4
[1	-3	7]	(3	1	0)	(4	6	2)	3.141	1.385	2.27	38.2	57.8
[3	-9	26]	(3	1	0)	(2	-8	-3)	3.141	1.383	2.27	88.8	51.7
[3	-9	-22]	(3	1	0)	(2	8	-3)	3.141	1.383	2.27	78.9	53.1
[1	-3	-2]	(3	1	0)	(7	3	-1)	3.141	1.371	2.29	15.5	76.6
[1	-3	-4]	(3	1	0)	(-5	1	-2)	3.141	1.369	2.29	34.3	66.7
[1	-3	-1]	(3	1	0)	(5	1	2)	3.141	1.369	2.29	31.5	82.0
[3	-9	20]	(3	1	0)	(1	7	3)	3.141	1.366	2.30	64.5	59.2

Winchite (310) 367 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[1	-3	-2]	(3	1	0)	(3	-1	3)	3.141	1.363	2.30	52.7	76.6
[1	-3	0]	(3	1	0)	(3	1	3)	3.141	1.363	2.30	50.7	87.4
[1	-3	-8]	(3	1	0)	(0	-8	3)	3.141	1.360	2.31	84.7	50.8
[1	-3	8]	(3	1	0)	(0	8	3)	3.141	1.360	2.31	72.4	54.1
[3	-9	20]	(3	1	0)	(5	-5	-3)	3.141	1.360	2.31	63.9	59.2
[3	-9	-10]	(3	1	0)	(-5	-5	3)	3.141	1.360	2.31	55.2	69.9
[1	-3	6]	(3	1	0)	(6	4	1)	3.141	1.355	2.32	16.9	62.0
[1	-3	5]	(3	1	0)	(-7	1	2)	3.141	1.348	2.33	33.8	66.4
[1	-3	2]	(3	1	0)	(7	1	-2)	3.141	1.348	2.33	31.0	81.6
[1	-3	2]	(3	1	0)	(5	3	2)	3.141	1.339	2.35	30.8	81.6
[3	-9	-20]	(3	1	0)	(2	-6	3)	3.141	1.336	2.35	66.9	55.5
[3	-9	16]	(3	1	0)	(2	6	3)	3.141	1.336	2.35	56.9	64.9
[1	-3	4]	(3	1	0)	(6	-2	-3)	3.141	1.329	2.36	52.8	71.2
[1	-3	0]	(3	1	0)	(-6	-2	3)	3.141	1.329	2.36	49.0	87.4
[2	-6	1]	(3	1	0)	(2	0	-4)	3.141	1.322	2.38	89.0	89.8
[3	-9	-26]	(3	1	0)	(1	9	-3)	3.141	1.321	2.38	86.6	48.7
[3	-9	28]	(3	1	0)	(1	-9	-3)	3.141	1.321	2.38	80.2	49.5
[1	-3	8]	(3	1	0)	(7	-3	-2)	3.141	1.319	2.38	38.0	54.1
[1	-3	-1]	(3	1	0)	(-7	-3	2)	3.141	1.319	2.38	30.3	82.0
[1	-3	-8]	(3	1	0)	(7	5	-1)	3.141	1.311	2.40	18.7	50.8
[2	-6	-1]	(3	1	0)	(1	1	-4)	3.141	1.309	2.40	84.0	84.7
[1	-3	1]	(3	1	0)	(-1	1	4)	3.141	1.309	2.40	82.5	87.1
[2	-6	3]	(3	1	0)	(-3	1	4)	3.141	1.303	2.41	82.0	84.3
[1	-3	0]	(3	1	0)	(3	1	-4)	3.141	1.303	2.41	80.5	87.4
[3	-9	28]	(3	1	0)	(-4	8	3)	3.141	1.299	2.42	75.6	49.5
[3	-9	-20]	(3	1	0)	(4	8	-3)	3.141	1.299	2.42	63.4	55.5
[1	-3	6]	(3	1	0)	(-6	4	3)	3.141	1.288	2.44	55.9	62.0
[1	-3	-2]	(3	1	0)	(6	4	-3)	3.141	1.288	2.44	48.7	76.6
[1	-3	5]	(3	1	0)	(5	5	2)	3.141	1.283	2.45	32.0	66.4
[1	-3	-2]	(3	1	0)	(1	3	-4)	3.141	1.282	2.45	85.5	76.6
[2	-6	5]	(3	1	0)	(-1	3	4)	3.141	1.282	2.45	81.2	78.9
[1	-3	-6]	(3	1	0)	(3	-5	3)	3.141	1.278	2.46	58.7	58.1
[1	-3	4]	(3	1	0)	(3	5	3)	3.141	1.278	2.46	50.0	71.2
[1	-3	3]	(3	1	0)	(3	-3	-4)	3.141	1.276	2.46	83.6	76.3
[2	-6	-3]	(3	1	0)	(-3	-3	4)	3.141	1.276	2.46	79.3	79.3
[3	-9	26]	(3	1	0)	(5	-7	-3)	3.141	1.275	2.46	67.2	51.7
[3	-9	-16]	(3	1	0)	(-5	-7	3)	3.141	1.275	2.46	56.0	60.8
[2	-6	7]	(3	1	0)	(-2	4	4)	3.141	1.268	2.48	88.2	73.7
[2	-6	-5]	(3	1	0)	(-2	-4	4)	3.141	1.268	2.48	86.2	74.1
[1	-3	-9]	(3	1	0)	(6	8	-2)	3.141	1.268	2.48	40.5	47.7
[2	-6	3]	(3	1	0)	(0	2	4)	3.141	1.267	2.48	74.4	84.3
[1	-3	-4]	(3	1	0)	(7	5	-2)	3.141	1.266	2.48	31.4	66.7
[2	-6	5]	(3	1	0)	(-4	2	4)	3.141	1.256	2.50	75.4	78.9
[2	-6	-1]	(3	1	0)	(4	2	-4)	3.141	1.256	2.50	72.5	84.7
[3	-9	-28]	(3	1	0)	(-1	9	-3)	3.141	1.255	2.50	78.3	46.7
[3	-9	26]	(3	1	0)	(1	9	3)	3.141	1.255	2.50	65.1	51.7
[3	-9	-4]	(3	1	0)	(4	0	3)	3.141	1.247	2.52	45.9	80.2
[3	-9	-26]	(3	1	0)	(2	-8	3)	3.141	1.244	2.52	70.0	48.7

Winchite (310) 367 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

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[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[3	-9	22]	(3	1	0)	(2	8	3)	3.141	1.244	2.52	57.8	56.5
[1	-3	-4]	(3	1	0)	(7	1	1)	3.141	1.239	2.54	14.8	66.7
[3	-9	-10]	(3	1	0)	(-4	2	-3)	3.141	1.236	2.54	48.3	69.9
[3	-9	2]	(3	1	0)	(4	2	3)	3.141	1.236	2.54	44.5	88.9
[2	-6	-7]	(3	1	0)	(1	5	-4)	3.141	1.233	2.55	87.0	69.1
[1	-3	4]	(3	1	0)	(-1	5	4)	3.141	1.233	2.55	80.2	71.2
[1	-3	8]	(3	1	0)	(8	0	-1)	3.141	1.232	2.55	16.7	54.1
[2	-6	9]	(3	1	0)	(-3	5	4)	3.141	1.228	2.56	85.2	68.8
[1	-3	-3]	(3	1	0)	(3	5	-4)	3.141	1.228	2.56	78.3	71.5
[1	-3	-1]	(3	1	0)	(1	-1	4)	3.141	1.225	2.56	69.4	82.0
[2	-6	1]	(3	1	0)	(1	1	4)	3.141	1.225	2.56	68.0	89.8
[3	-9	10]	(3	1	0)	(7	-1	-3)	3.141	1.223	2.57	46.0	74.6
[3	-9	4]	(3	1	0)	(-7	-1	3)	3.141	1.223	2.57	44.1	85.2
[1	-3	2]	(3	1	0)	(8	2	-1)	3.141	1.220	2.57	13.5	81.6
[1	-3	-3]	(3	1	0)	(6	0	2)	3.141	1.220	2.57	29.1	71.5
[1	-3	2]	(3	1	0)	(7	3	1)	3.141	1.216	2.58	13.4	81.6
[1	-3	8]	(3	1	0)	(5	7	2)	3.141	1.212	2.59	34.5	54.1
[1	-3	2]	(3	1	0)	(-5	1	4)	3.141	1.210	2.60	67.7	81.6
[2	-6	1]	(3	1	0)	(5	1	-4)	3.141	1.210	2.60	66.3	89.8
[1	-3	-8]	(3	1	0)	(-3	7	-3)	3.141	1.208	2.60	62.1	50.8
[1	-3	6]	(3	1	0)	(3	7	3)	3.141	1.208	2.60	50.9	62.0
[2	-6	-5]	(3	1	0)	(1	-3	4)	3.141	1.203	2.61	71.2	74.1
[1	-3	2]	(3	1	0)	(1	3	4)	3.141	1.203	2.61	67.0	81.6
[3	-9	-16]	(3	1	0)	(-4	4	-3)	3.141	1.202	2.61	51.4	60.8
[3	-9	8]	(3	1	0)	(4	4	3)	3.141	1.202	2.61	44.2	78.0
[3	-9	16]	(3	1	0)	(-7	3	3)	3.141	1.201	2.62	48.8	64.9
[3	-9	-2]	(3	1	0)	(7	3	-3)	3.141	1.201	2.62	43.3	83.8
[1	-3	-7]	(3	1	0)	(-7	-7	2)	3.141	1.197	2.62	33.9	54.3
[1	-3	7]	(3	1	0)	(8	-2	-2)	3.141	1.192	2.63	32.2	57.8
[1	-3	1]	(3	1	0)	(-8	-2	2)	3.141	1.192	2.63	26.8	87.1
[2	-6	7]	(3	1	0)	(5	-3	-4)	3.141	1.189	2.64	69.5	73.7
[1	-3	-1]	(3	1	0)	(5	3	-4)	3.141	1.189	2.64	65.3	82.0
[1	-3	-4]	(3	1	0)	(-8	-4	1)	3.141	1.188	2.64	14.2	66.7
[3	-9	32]	(3	1	0)	(5	-9	-3)	3.141	1.184	2.65	70.3	45.5
[3	-9	-22]	(3	1	0)	(-5	-9	3)	3.141	1.184	2.65	57.2	53.1
[1	-3	-9]	(3	1	0)	(6	-4	2)	3.141	1.178	2.67	37.1	47.7
[1	-3	3]	(3	1	0)	(6	4	2)	3.141	1.178	2.67	27.3	76.3
[2	-6	-9]	(3	1	0)	(0	-6	4)	3.141	1.177	2.67	80.8	64.4
[2	-6	9]	(3	1	0)	(0	6	4)	3.141	1.177	2.67	72.8	68.8
[1	-3	8]	(3	1	0)	(7	5	1)	3.141	1.174	2.68	15.9	54.1
[1	-3	-5]	(3	1	0)	(1	7	-4)	3.141	1.169	2.69	88.5	62.2
[2	-6	11]	(3	1	0)	(-1	7	4)	3.141	1.169	2.69	79.4	64.2
[2	-6	11]	(3	1	0)	(-4	6	4)	3.141	1.168	2.69	79.1	64.2
[2	-6	-7]	(3	1	0)	(4	6	-4)	3.141	1.168	2.69	71.1	69.1
[1	-3	6]	(3	1	0)	(-3	7	4)	3.141	1.165	2.70	86.7	62.0
[2	-6	-9]	(3	1	0)	(3	7	-4)	3.141	1.165	2.70	77.6	64.4
[2	-6	-1]	(3	1	0)	(2	0	4)	3.141	1.165	2.70	62.3	84.7
[1	-3	-4]	(3	1	0)	(-1	5	-4)	3.141	1.163	2.70	73.2	66.7

Winchite (310) 367 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

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[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[2	-6	7]	(3	1	0)	(1	5	4)	3.141	1.163	2.70	66.4	73.7
[1	-3	10]	(3	1	0)	(-8	4	2)	3.141	1.162	2.70	36.6	47.5
[1	-3	-2]	(3	1	0)	(8	4	-2)	3.141	1.162	2.70	26.9	76.6
[3	-9	22]	(3	1	0)	(-7	5	3)	3.141	1.160	2.71	52.1	56.5
[3	-9	-8]	(3	1	0)	(7	5	-3)	3.141	1.160	2.71	43.4	73.2
[1	-3	10]	(3	1	0)	(-6	8	3)	3.141	1.154	2.72	62.7	47.5
[1	-3	-6]	(3	1	0)	(6	8	-3)	3.141	1.154	2.72	50.5	58.1
[3	-9	-22]	(3	1	0)	(-4	6	-3)	3.141	1.152	2.73	54.8	53.1
[3	-9	14]	(3	1	0)	(4	6	3)	3.141	1.152	2.73	44.8	68.0
[1	-3	5]	(3	1	0)	(-5	5	4)	3.141	1.150	2.73	71.6	66.4
[2	-6	-5]	(3	1	0)	(5	5	-4)	3.141	1.150	2.73	64.7	74.1
[2	-6	3]	(3	1	0)	(-6	0	4)	3.141	1.147	2.74	60.7	84.3
[2	-6	13]	(3	1	0)	(-2	8	4)	3.141	1.140	2.75	85.8	59.9
[2	-6	-11]	(3	1	0)	(2	8	-4)	3.141	1.140	2.75	84.1	60.1
[3	-9	-8]	(3	1	0)	(-5	1	-3)	3.141	1.136	2.77	42.3	73.2
[3	-9	-2]	(3	1	0)	(5	1	3)	3.141	1.136	2.77	40.4	83.8
[2	-6	-7]	(3	1	0)	(2	-4	4)	3.141	1.128	2.78	66.0	69.1
[2	-6	5]	(3	1	0)	(2	4	4)	3.141	1.128	2.78	60.4	78.9
[3	-9	8]	(3	1	0)	(8	0	-3)	3.141	1.118	2.81	40.4	78.0
[3	-9	-14]	(3	1	0)	(-5	3	-3)	3.141	1.118	2.81	45.0	63.7
[3	-9	4]	(3	1	0)	(5	3	3)	3.141	1.118	2.81	39.5	85.2
[1	-3	-5]	(3	1	0)	(-8	-6	2)	3.141	1.117	2.81	28.5	62.2
[2	-6	9]	(3	1	0)	(6	-4	-4)	3.141	1.112	2.82	64.5	68.8
[2	-6	-3]	(3	1	0)	(-6	-4	4)	3.141	1.112	2.82	58.9	79.3
[3	-9	14]	(3	1	0)	(8	-2	-3)	3.141	1.110	2.83	42.8	68.0
[3	-9	2]	(3	1	0)	(8	2	-3)	3.141	1.110	2.83	39.0	88.9
[2	-6	-11]	(3	1	0)	(-1	7	-4)	3.141	1.109	2.83	75.3	60.1
[1	-3	5]	(3	1	0)	(1	7	4)	3.141	1.109	2.83	66.2	66.4
[3	-9	28]	(3	1	0)	(-7	7	3)	3.141	1.107	2.84	55.6	49.5
[3	-9	-14]	(3	1	0)	(7	7	-3)	3.141	1.107	2.84	44.4	63.7
[1	-3	-8]	(3	1	0)	(8	0	1)	3.141	1.102	2.85	15.6	50.8
[2	-6	-13]	(3	1	0)	(-1	-9	4)	3.141	1.098	2.86	89.8	56.1
[1	-3	7]	(3	1	0)	(1	-9	-4)	3.141	1.098	2.86	78.8	57.8
[2	-6	13]	(3	1	0)	(5	-7	-4)	3.141	1.097	2.86	73.7	59.9
[1	-3	-4]	(3	1	0)	(-5	-7	4)	3.141	1.097	2.86	64.6	66.7
[2	-6	15]	(3	1	0)	(3	-9	-4)	3.141	1.094	2.87	88.1	55.9
[1	-3	-6]	(3	1	0)	(-3	-9	4)	3.141	1.094	2.87	77.2	58.1
[1	-3	-2]	(3	1	0)	(8	2	1)	3.141	1.094	2.87	12.3	76.6
[2	-6	-3]	(3	1	0)	(3	-1	4)	3.141	1.094	2.87	57.4	79.3
[1	-3	0]	(3	1	0)	(3	1	4)	3.141	1.094	2.87	55.9	87.4
[1	-3	-5]	(3	1	0)	(7	-1	2)	3.141	1.092	2.88	27.8	62.2
[1	-3	-2]	(3	1	0)	(7	1	2)	3.141	1.092	2.88	25.1	76.6
[1	-3	6]	(3	1	0)	(9	1	-1)	3.141	1.092	2.88	13.5	62.0
[3	-9	-28]	(3	1	0)	(-4	8	-3)	3.141	1.091	2.88	58.3	46.7
[3	-9	20]	(3	1	0)	(4	8	3)	3.141	1.091	2.88	46.1	59.2
[3	-9	20]	(3	1	0)	(-8	4	3)	3.141	1.085	2.89	45.8	59.2
[3	-9	-4]	(3	1	0)	(8	4	-3)	3.141	1.085	2.89	38.7	80.2
[3	-9	-20]	(3	1	0)	(-5	5	-3)	3.141	1.085	2.89	48.3	55.5

Winchite (310) 367 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** ***α*** **90°** ***β*** **104.54°** ***γ*** **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[3	-9	10]	(3	1	0)	(5	5	3)	3.141	1.085	2.89	39.7	74.6
[1	-3	-3]	(3	1	0)	(-3	3	-4)	3.141	1.078	2.91	59.3	71.5
[2	-6	3]	(3	1	0)	(3	3	4)	3.141	1.078	2.91	55.0	84.3
[1	-3	6]	(3	1	0)	(-9	1	2)	3.141	1.078	2.91	27.5	62.0
[1	-3	3]	(3	1	0)	(9	1	-2)	3.141	1.078	2.91	24.8	76.3
[1	-3	-8]	(3	1	0)	(-7	3	-2)	3.141	1.077	2.92	31.7	50.8
[1	-3	1]	(3	1	0)	(7	3	2)	3.141	1.077	2.92	24.1	87.1
[2	-6	5]	(3	1	0)	(7	-1	-4)	3.141	1.076	2.92	56.0	78.9
[1	-3	1]	(3	1	0)	(-7	-1	4)	3.141	1.076	2.92	54.6	87.1
[1	-3	9]	(3	1	0)	(6	8	2)	3.141	1.073	2.93	31.7	50.6
[1	-3	4]	(3	1	0)	(8	4	1)	3.141	1.070	2.93	12.3	71.2
[1	-3	9]	(3	1	0)	(9	-3	-2)	3.141	1.063	2.96	31.3	50.6
[1	-3	0]	(3	1	0)	(-9	-3	2)	3.141	1.063	2.96	23.7	87.4
[1	-3	4]	(3	1	0)	(7	-3	-4)	3.141	1.061	2.96	57.9	71.2
[2	-6	-1]	(3	1	0)	(-7	-3	4)	3.141	1.061	2.96	53.7	84.7
[5	-15	2]	(3	1	0)	(-2	0	5)	3.141	1.057	2.97	87.9	89.6
[5	-15	6]	(3	1	0)	(-3	1	5)	3.141	1.053	2.98	86.5	86.0
[1	-3	0]	(3	1	0)	(3	1	-5)	3.141	1.053	2.98	85.3	87.4
[5	-15	-4]	(3	1	0)	(2	2	-5)	3.141	1.050	2.99	89.1	83.0
[5	-15	8]	(3	1	0)	(-2	2	5)	3.141	1.050	2.99	86.7	83.8
[2	-6	-9]	(3	1	0)	(3	-5	4)	3.141	1.048	3.00	61.5	64.4
[1	-3	3]	(3	1	0)	(3	5	4)	3.141	1.048	3.00	54.7	76.3
[3	-9	26]	(3	1	0)	(8	-6	-3)	3.141	1.048	3.00	49.2	51.7
[3	-9	-10]	(3	1	0)	(-8	-6	3)	3.141	1.048	3.00	39.3	69.9
[1	-3	-7]	(3	1	0)	(1	-9	4)	3.141	1.047	3.00	77.3	54.3
[2	-6	13]	(3	1	0)	(1	9	4)	3.141	1.047	3.00	66.3	59.9
[1	-3	4]	(3	1	0)	(7	5	2)	3.141	1.047	3.00	24.7	71.2
[1	-3	-6]	(3	1	0)	(-9	-5	1)	3.141	1.047	3.00	13.5	58.1
[3	-9	-20]	(3	1	0)	(7	9	-3)	3.141	1.045	3.00	46.0	55.5
[5	-15	-2]	(3	1	0)	(1	1	-5)	3.141	1.044	3.01	82.3	85.2
[5	-15	4]	(3	1	0)	(-1	1	5)	3.141	1.044	3.01	81.1	88.2
[3	-9	-26]	(3	1	0)	(-5	7	-3)	3.141	1.041	3.02	51.8	48.7
[3	-9	16]	(3	1	0)	(5	7	3)	3.141	1.041	3.02	40.7	64.9
[5	-15	12]	(3	1	0)	(-3	3	5)	3.141	1.039	3.02	87.7	79.5
[5	-15	-6]	(3	1	0)	(3	3	-5)	3.141	1.039	3.02	84.2	80.9
[1	-3	8]	(3	1	0)	(-5	9	4)	3.141	1.038	3.03	75.8	54.1
[2	-6	-11]	(3	1	0)	(5	9	-4)	3.141	1.038	3.03	64.8	60.1
[2	-6	-13]	(3	1	0)	(-2	8	-4)	3.141	1.035	3.03	70.5	56.1
[2	-6	11]	(3	1	0)	(2	8	4)	3.141	1.035	3.03	60.4	64.2
[1	-3	10]	(3	1	0)	(8	6	1)	3.141	1.034	3.04	15.4	47.5
[1	-3	-3]	(3	1	0)	(9	5	-2)	3.141	1.034	3.04	24.4	71.5
[1	-3	-4]	(3	1	0)	(-6	2	-3)	3.141	1.033	3.04	39.7	66.7
[1	-3	0]	(3	1	0)	(6	2	3)	3.141	1.033	3.04	35.9	87.4
[1	-3	2]	(3	1	0)	(4	-2	-5)	3.141	1.033	3.04	81.0	81.6
[5	-15	-2]	(3	1	0)	(-4	-2	5)	3.141	1.033	3.04	78.6	85.2
[2	-6	11]	(3	1	0)	(7	-5	-4)	3.141	1.032	3.04	60.2	64.2
[1	-3	-2]	(3	1	0)	(-7	-5	4)	3.141	1.032	3.04	53.4	76.6
[5	-15	-8]	(3	1	0)	(-1	-3	5)	3.141	1.031	3.05	83.5	78.7

Winchite (310) 367 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** ***α*** **90°** ***β*** **104.54°** ***γ*** **90°**

Space Group C2/m permits only *(h+k)=2n*

[U V W]	(h k 0)	(h k l)	*d* (hk0)	*d* (hkl)	*d* Ratio	*θ*°	ZA^C°
[1 -3 2]	(3 1 0)	(1 -3 -5)	3.141	1.031	3.05	80.1	81.6
[1 -3 -2]	(3 1 0)	(2 4 -5)	3.141	1.029	3.05	89.8	76.6
[5 -15 14]	(3 1 0)	(2 -4 -5)	3.141	1.029	3.05	85.7	77.3
[2 -6 -9]	(3 1 0)	(6 8 -4)	3.141	1.023	3.07	59.0	64.4
[1 -3 4]	(3 1 0)	(-9 1 3)	3.141	1.021	3.08	37.7	71.2
[1 -3 2]	(3 1 0)	(9 1 -3)	3.141	1.021	3.08	35.8	81.6
[2 -6 -5]	(3 1 0)	(4 -2 4)	3.141	1.019	3.08	53.3	74.1
[2 -6 1]	(3 1 0)	(4 2 4)	3.141	1.019	3.08	50.4	89.8
[5 -15 -6]	(3 1 0)	(0 -2 5)	3.141	1.017	3.09	76.9	80.9
[5 -15 6]	(3 1 0)	(0 2 5)	3.141	1.017	3.09	74.6	86.0
[1 -3 -6]	(3 1 0)	(6 -4 3)	3.141	1.014	3.10	42.6	58.1
[1 -3 2]	(3 1 0)	(6 4 3)	3.141	1.014	3.10	35.5	81.6
[5 -15 16]	(3 1 0)	(4 -4 -5)	3.141	1.013	3.10	82.3	75.3
[5 -15 -8]	(3 1 0)	(4 4 -5)	3.141	1.013	3.10	77.7	78.7
[5 -15 8]	(3 1 0)	(-5 1 5)	3.141	1.013	3.10	74.4	83.8
[5 -15 2]	(3 1 0)	(5 1 -5)	3.141	1.013	3.10	73.3	89.6
[5 -15 18]	(3 1 0)	(-3 5 5)	3.141	1.012	3.10	88.8	73.2
[5 -15 -12]	(3 1 0)	(3 5 -5)	3.141	1.012	3.10	83.2	74.6
[1 -3 6]	(3 1 0)	(9 -3 -3)	3.141	1.008	3.11	40.4	62.0
[1 -3 0]	(3 1 0)	(-9 -3 3)	3.141	1.008	3.11	34.9	87.4
[1 -3 -6]	(3 1 0)	(3 -7 4)	3.141	1.008	3.11	64.0	58.1
[2 -6 9]	(3 1 0)	(3 7 4)	3.141	1.008	3.11	54.9	68.8
[1 -3 7]	(3 1 0)	(7 7 2)	3.141	1.007	3.12	26.7	57.8
[5 -15 -14]	(3 1 0)	(1 5 -5)	3.141	1.005	3.13	84.8	72.5
[5 -15 16]	(3 1 0)	(-1 5 5)	3.141	1.005	3.13	79.2	75.3
[3 -9 32]	(3 1 0)	(-8 8 3)	3.141	1.002	3.14	52.8	45.5
[3 -9 -16]	(3 1 0)	(8 8 -3)	3.141	1.002	3.14	40.6	60.8
[2 -6 7]	(3 1 0)	(-8 2 4)	3.141	1.001	3.14	52.1	73.7
[2 -6 1]	(3 1 0)	(8 2 -4)	3.141	1.001	3.14	49.2	89.8
[5 -15 14]	(3 1 0)	(-5 3 5)	3.141	1.000	3.14	75.8	77.3
[5 -15 -4]	(3 1 0)	(5 3 -5)	3.141	1.000	3.14	72.3	83.0

Winchite (350) 326 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[5	-3	0]	(3	5	0)	(0	0	1)	2.389	5.119	0.47	79.1	80.3
[5	-3	8]	(3	5	0)	(-1	1	1)	2.389	4.882	0.49	88.6	67.5
[5	-3	2]	(3	5	0)	(1	1	-1)	2.389	4.882	0.49	67.5	88.6
[5	-3	6]	(3	5	0)	(0	2	1)	2.389	4.451	0.54	60.6	75.0
[5	-3	10]	(3	5	0)	(2	0	-1)	2.389	4.031	0.59	61.0	60.7
[5	-3	-8]	(3	5	0)	(1	-1	1)	2.389	4.000	0.60	71.6	52.8
[5	-3	-2]	(3	5	0)	(1	1	1)	2.389	4.000	0.60	52.5	72.4
[5	-3	-4]	(3	5	0)	(-1	-3	1)	2.389	3.876	0.62	53.9	65.1
[5	-3	4]	(3	5	0)	(2	2	-1)	2.389	3.680	0.65	44.5	83.1
[5	-3	4]	(3	5	0)	(1	3	1)	2.389	3.388	0.71	40.2	83.1
[5	-3	12]	(3	5	0)	(0	4	1)	2.389	3.383	0.71	51.6	54.7
[5	-3	-10]	(3	5	0)	(2	0	1)	2.389	3.121	0.77	52.7	47.9
[5	-3	12]	(3	5	0)	(-3	-1	1)	2.389	3.025	0.79	44.5	54.7
[5	-3	-2]	(3	5	0)	(2	4	-1)	2.389	3.005	0.80	36.6	72.4
[5	-3	-4]	(3	5	0)	(2	2	1)	2.389	2.949	0.81	37.9	65.1
[5	-3	-10]	(3	5	0)	(1	5	-1)	2.389	2.939	0.81	48.6	47.9
[5	-3	6]	(3	5	0)	(-3	-3	1)	2.389	2.733	0.87	32.3	75.0
[5	-3	10]	(3	5	0)	(1	5	1)	2.389	2.708	0.88	36.0	60.7
[5	-3	4]	(3	5	0)	(-1	1	2)	2.389	2.616	0.91	85.3	83.1
[5	-3	1]	(3	5	0)	(-1	-1	2)	2.389	2.616	0.91	83.7	84.4
[5	-3	2]	(3	5	0)	(2	4	1)	2.389	2.566	0.93	29.0	88.6
[5	-3	5]	(3	5	0)	(2	0	-2)	2.389	2.536	0.94	77.7	79.0
[5	-3	-3]	(3	5	0)	(0	2	-2)	2.389	2.462	0.97	90.0	68.6
[5	-3	3]	(3	5	0)	(0	2	2)	2.389	2.462	0.97	68.8	87.2
[5	-3	7]	(3	5	0)	(1	-3	-2)	2.389	2.420	0.99	75.3	71.1
[5	-3	-2]	(3	5	0)	(1	3	-2)	2.389	2.420	0.99	73.8	72.4
[5	-3	-8]	(3	5	0)	(2	6	-1)	2.389	2.409	0.99	34.9	52.8
[5	-3	0]	(3	5	0)	(-3	-5	1)	2.389	2.337	1.02	26.6	80.3
[5	-3	14]	(3	5	0)	(4	2	-1)	2.389	2.324	1.03	35.3	49.5
[5	-3	-4]	(3	5	0)	(-1	1	-2)	2.389	2.311	1.03	74.5	65.1
[5	-3	-1]	(3	5	0)	(1	1	2)	2.389	2.311	1.03	64.1	76.2
[5	-3	9]	(3	5	0)	(-3	1	2)	2.389	2.277	1.05	73.4	64.0
[5	-3	6]	(3	5	0)	(3	1	-2)	2.389	2.277	1.05	63.1	75.0
[5	-3	-6]	(3	5	0)	(3	3	1)	2.389	2.261	1.06	30.1	58.6
[5	-3	11]	(3	5	0)	(-2	4	2)	2.389	2.210	1.08	82.0	57.6
[5	-3	-1]	(3	5	0)	(-2	-4	2)	2.389	2.210	1.08	59.4	76.2
[5	-3	-7]	(3	5	0)	(1	-3	2)	2.389	2.172	1.10	84.7	55.6
[5	-3	2]	(3	5	0)	(1	3	2)	2.389	2.172	1.10	55.3	88.6
[5	-3	8]	(3	5	0)	(2	6	1)	2.389	2.165	1.10	26.3	67.5
[5	-3	12]	(3	5	0)	(-3	3	2)	2.389	2.144	1.11	83.6	54.7
[5	-3	3]	(3	5	0)	(3	3	-2)	2.389	2.144	1.11	54.3	87.2
[5	-3	10]	(3	5	0)	(1	-5	-2)	2.389	2.132	1.12	67.7	60.7
[5	-3	-5]	(3	5	0)	(1	5	-2)	2.389	2.132	1.12	66.3	61.7
[5	-3	8]	(3	5	0)	(-4	-4	1)	2.389	2.122	1.13	25.8	67.5
[5	-3	-5]	(3	5	0)	(2	0	2)	2.389	2.051	1.16	61.7	61.7
[5	-3	0]	(3	5	0)	(3	5	1)	2.389	2.021	1.18	22.8	80.3
[5	-3	13]	(3	5	0)	(4	-2	-2)	2.389	1.967	1.21	70.8	52.0
[5	-3	7]	(3	5	0)	(-4	-2	2)	2.389	1.967	1.21	51.8	71.1

Winchite (350) 326 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[5	-3	-10]	(3	5	0)	(-1	5	-2)	2.389	1.957	1.22	86.5	47.9
[5	-3	5]	(3	5	0)	(1	5	2)	2.389	1.957	1.22	48.9	79.0
[5	-3	-9]	(3	5	0)	(0	6	-2)	2.389	1.949	1.23	73.4	50.3
[5	-3	9]	(3	5	0)	(0	6	2)	2.389	1.949	1.23	55.1	64.0
[5	-3	15]	(3	5	0)	(-3	5	2)	2.389	1.936	1.23	87.7	47.1
[5	-3	0]	(3	5	0)	(-3	-5	2)	2.389	1.936	1.23	48.0	80.3
[5	-3	2]	(3	5	0)	(4	6	-1)	2.389	1.878	1.27	20.8	88.6
[5	-3	-11]	(3	5	0)	(-2	4	-2)	2.389	1.867	1.28	81.0	45.6
[5	-3	1]	(3	5	0)	(2	4	2)	2.389	1.867	1.28	45.2	84.4
[5	-3	13]	(3	5	0)	(1	-7	-2)	2.389	1.845	1.29	62.3	52.0
[5	-3	-8]	(3	5	0)	(1	7	-2)	2.389	1.845	1.29	61.1	52.8
[5	-3	14]	(3	5	0)	(2	8	1)	2.389	1.827	1.31	27.0	49.5
[5	-3	-8]	(3	5	0)	(4	4	1)	2.389	1.813	1.32	25.5	52.8
[5	-3	-9]	(3	5	0)	(3	-1	2)	2.389	1.778	1.34	61.0	50.3
[5	-3	-6]	(3	5	0)	(3	1	2)	2.389	1.778	1.34	52.0	58.6
[5	-3	6]	(3	5	0)	(3	7	1)	2.389	1.772	1.35	20.3	75.0
[15	-9	10]	(3	5	0)	(2	0	-3)	2.389	1.752	1.36	85.3	85.8
[15	-9	2]	(3	5	0)	(1	1	-3)	2.389	1.749	1.37	89.5	83.0
[15	-9	8]	(3	5	0)	(1	-1	-3)	2.389	1.749	1.37	83.1	88.6
[5	-3	14]	(3	5	0)	(5	-1	-2)	2.389	1.747	1.37	60.4	49.5
[5	-3	11]	(3	5	0)	(-5	-1	2)	2.389	1.747	1.37	51.5	57.6
[5	-3	8]	(3	5	0)	(1	7	2)	2.389	1.728	1.38	45.0	67.5
[15	-9	16]	(3	5	0)	(2	-2	-3)	2.389	1.720	1.39	87.4	77.6
[15	-9	4]	(3	5	0)	(2	2	-3)	2.389	1.720	1.39	78.1	85.8
[5	-3	10]	(3	5	0)	(-5	-5	1)	2.389	1.719	1.39	21.9	60.7
[5	-3	-3]	(3	5	0)	(3	7	-2)	2.389	1.714	1.39	44.1	68.6
[5	-3	-3]	(3	5	0)	(3	3	2)	2.389	1.713	1.40	44.1	68.6
[15	-9	14]	(3	5	0)	(1	-3	-3)	2.389	1.687	1.42	76.2	80.3
[5	-3	8]	(3	5	0)	(5	3	-2)	2.389	1.685	1.42	43.6	67.5
[5	-3	-7]	(3	5	0)	(-2	-8	2)	2.389	1.685	1.42	50.6	55.6
[5	-3	6]	(3	5	0)	(3	-1	-3)	2.389	1.683	1.42	81.4	75.0
[5	-3	4]	(3	5	0)	(-3	-1	3)	2.389	1.683	1.42	74.2	83.1
[5	-3	-2]	(3	5	0)	(0	-2	3)	2.389	1.676	1.43	86.4	72.4
[5	-3	2]	(3	5	0)	(0	2	3)	2.389	1.676	1.43	72.1	88.6
[5	-3	1]	(3	5	0)	(4	6	-2)	2.389	1.674	1.43	39.5	84.4
[5	-3	-2]	(3	5	0)	(4	6	1)	2.389	1.653	1.45	19.2	72.4
[5	-3	-4]	(3	5	0)	(4	8	-1)	2.389	1.645	1.45	20.1	65.1
[15	-9	22]	(3	5	0)	(2	-4	-3)	2.389	1.633	1.46	80.6	69.9
[15	-9	-2]	(3	5	0)	(2	4	-3)	2.389	1.633	1.46	71.6	77.6
[15	-9	-8]	(3	5	0)	(-1	1	-3)	2.389	1.605	1.49	75.9	69.8
[15	-9	-2]	(3	5	0)	(1	1	3)	2.389	1.605	1.49	68.8	77.6
[5	-3	0]	(3	5	0)	(3	5	2)	2.389	1.601	1.49	37.9	80.3
[5	-3	-11]	(3	5	0)	(1	9	-2)	2.389	1.597	1.50	57.6	45.6
[5	-3	-4]	(3	5	0)	(0	4	-3)	2.389	1.596	1.50	86.7	65.1
[5	-3	4]	(3	5	0)	(0	4	3)	2.389	1.596	1.50	65.8	83.1
[15	-9	20]	(3	5	0)	(4	0	-3)	2.389	1.589	1.50	71.1	72.4
[15	-9	-10]	(3	5	0)	(-1	-5	3)	2.389	1.580	1.51	76.1	67.4
[15	-9	20]	(3	5	0)	(-1	5	3)	2.389	1.580	1.51	70.1	72.4

Winchite (350) 326 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** ***α*** **90°** ***β*** **104.54°** ***γ*** **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[5	-3	5]	(3	5	0)	(-5	-5	2)	2.389	1.578	1.51	37.5	79.0
[15	-9	26]	(3	5	0)	(4	-2	-3)	2.389	1.565	1.53	78.2	65.1
[15	-9	14]	(3	5	0)	(-4	-2	3)	2.389	1.565	1.53	64.3	80.3
[15	-9	-14]	(3	5	0)	(1	-3	3)	2.389	1.556	1.54	82.9	62.8
[15	-9	4]	(3	5	0)	(1	3	3)	2.389	1.556	1.54	62.3	85.8
[5	-3	12]	(3	5	0)	(3	9	1)	2.389	1.549	1.54	21.0	54.7
[5	-3	-7]	(3	5	0)	(4	2	2)	2.389	1.537	1.55	44.8	55.6
[5	-3	15]	(3	5	0)	(6	0	-2)	2.389	1.534	1.56	52.3	47.1
[5	-3	10]	(3	5	0)	(-3	5	3)	2.389	1.531	1.56	84.9	60.7
[5	-3	0]	(3	5	0)	(3	5	-3)	2.389	1.531	1.56	61.8	80.3
[5	-3	11]	(3	5	0)	(1	9	2)	2.389	1.519	1.57	42.9	57.6
[5	-3	7]	(3	5	0)	(2	8	2)	2.389	1.517	1.58	37.3	71.1
[15	-9	28]	(3	5	0)	(-2	6	3)	2.389	1.514	1.58	74.8	62.9
[15	-9	-8]	(3	5	0)	(-2	-6	3)	2.389	1.514	1.58	66.2	69.8
[5	-3	-6]	(3	5	0)	(-3	-9	2)	2.389	1.509	1.58	42.0	58.6
[5	-3	-10]	(3	5	0)	(5	5	1)	2.389	1.506	1.59	22.6	47.9
[15	-9	32]	(3	5	0)	(-4	4	3)	2.389	1.499	1.59	85.1	58.6
[15	-9	8]	(3	5	0)	(4	4	-3)	2.389	1.499	1.59	58.3	88.6
[15	-9	-10]	(3	5	0)	(2	0	3)	2.389	1.492	1.60	66.5	67.4
[5	-3	4]	(3	5	0)	(4	8	1)	2.389	1.487	1.61	16.5	83.1
[15	-9	-16]	(3	5	0)	(2	-2	3)	2.389	1.472	1.62	73.4	60.6
[15	-9	-4]	(3	5	0)	(2	2	3)	2.389	1.472	1.62	59.9	74.9
[15	-9	-20]	(3	5	0)	(1	-5	3)	2.389	1.471	1.62	89.5	56.6
[15	-9	10]	(3	5	0)	(1	5	3)	2.389	1.471	1.62	56.8	85.8
[5	-3	3]	(3	5	0)	(3	7	2)	2.389	1.468	1.63	33.8	87.2
[15	-9	28]	(3	5	0)	(-5	1	3)	2.389	1.463	1.63	68.9	62.9
[15	-9	22]	(3	5	0)	(5	1	-3)	2.389	1.463	1.63	62.1	69.9
[5	-3	9]	(3	5	0)	(-6	-4	2)	2.389	1.452	1.65	37.7	64.0
[15	-9	-16]	(3	5	0)	(1	7	-3)	2.389	1.452	1.65	70.9	60.6
[15	-9	26]	(3	5	0)	(1	-7	-3)	2.389	1.452	1.65	65.2	65.1
[5	-3	2]	(3	5	0)	(5	7	-2)	2.389	1.451	1.65	33.3	88.6
[5	-3	12]	(3	5	0)	(-6	-6	1)	2.389	1.439	1.66	19.5	54.7
[15	-9	34]	(3	5	0)	(5	-3	-3)	2.389	1.426	1.68	75.7	56.6
[15	-9	16]	(3	5	0)	(-5	-3	3)	2.389	1.426	1.68	55.9	77.6
[15	-9	-22]	(3	5	0)	(2	-4	3)	2.389	1.417	1.69	80.1	54.7
[15	-9	2]	(3	5	0)	(2	4	3)	2.389	1.417	1.69	54.1	83.0
[5	-3	12]	(3	5	0)	(-3	7	3)	2.389	1.413	1.69	79.3	54.7
[5	-3	-2]	(3	5	0)	(-3	-7	3)	2.389	1.413	1.69	57.3	72.4
[15	-9	38]	(3	5	0)	(-4	6	3)	2.389	1.405	1.70	88.7	52.9
[15	-9	2]	(3	5	0)	(-4	-6	3)	2.389	1.405	1.70	53.4	83.0
[5	-3	-2]	(3	5	0)	(5	9	-1)	2.389	1.399	1.71	16.1	72.4
[5	-3	-4]	(3	5	0)	(5	7	1)	2.389	1.393	1.71	16.9	65.1
[5	-3	-1]	(3	5	0)	(4	6	2)	2.389	1.385	1.73	32.6	76.2
[15	-9	34]	(3	5	0)	(2	-8	-3)	2.389	1.383	1.73	70.1	56.6
[15	-9	-14]	(3	5	0)	(2	8	-3)	2.389	1.383	1.73	61.9	62.8
[5	-3	-11]	(3	5	0)	(5	1	2)	2.389	1.369	1.74	46.4	45.6
[15	-9	16]	(3	5	0)	(1	7	3)	2.389	1.366	1.75	52.5	77.6
[5	-3	-6]	(3	5	0)	(-3	1	-3)	2.389	1.363	1.75	65.0	58.6

Winchite (350) 326 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[5	-3	-4]	(3	5	0)	(3	1	3)	2.389	1.363	1.75	58.5	65.1
[5	-3	-8]	(3	5	0)	(0	8	-3)	2.389	1.360	1.76	75.6	52.8
[5	-3	8]	(3	5	0)	(0	8	3)	2.389	1.360	1.76	56.7	67.5
[15	-9	40]	(3	5	0)	(5	-5	-3)	2.389	1.360	1.76	82.2	51.1
[15	-9	10]	(3	5	0)	(-5	-5	3)	2.389	1.360	1.76	50.7	85.8
[15	-9	-28]	(3	5	0)	(2	-6	3)	2.389	1.336	1.79	86.4	49.4
[15	-9	8]	(3	5	0)	(2	6	3)	2.389	1.336	1.79	49.3	88.6
[5	-3	6]	(3	5	0)	(3	9	2)	2.389	1.333	1.79	31.5	75.0
[5	-3	12]	(3	5	0)	(-6	2	3)	2.389	1.329	1.80	67.5	54.7
[5	-3	8]	(3	5	0)	(6	2	-3)	2.389	1.329	1.80	54.7	67.5
[5	-3	6]	(3	5	0)	(-6	-8	1)	2.389	1.326	1.80	15.0	75.0
[10	-6	5]	(3	5	0)	(2	0	-4)	2.389	1.322	1.81	89.2	89.3
[15	-9	-22]	(3	5	0)	(-1	-9	3)	2.389	1.321	1.81	66.8	54.7
[15	-9	32]	(3	5	0)	(-1	9	3)	2.389	1.321	1.81	61.4	58.6
[5	-3	-1]	(3	5	0)	(-5	-9	2)	2.389	1.320	1.81	30.9	76.2
[5	-3	13]	(3	5	0)	(7	3	-2)	2.389	1.319	1.81	39.3	52.0
[10	-6	1]	(3	5	0)	(1	1	-4)	2.389	1.309	1.83	87.6	82.3
[5	-3	2]	(3	5	0)	(-1	1	4)	2.389	1.309	1.83	82.1	88.6
[10	-6	9]	(3	5	0)	(3	-1	-4)	2.389	1.303	1.83	86.1	81.0
[5	-3	3]	(3	5	0)	(-3	-1	4)	2.389	1.303	1.83	80.6	87.2
[15	-9	44]	(3	5	0)	(-4	8	3)	2.389	1.299	1.84	83.3	47.9
[15	-9	-4]	(3	5	0)	(-4	-8	3)	2.389	1.299	1.84	49.7	74.9
[5	-3	14]	(3	5	0)	(6	-4	-3)	2.389	1.288	1.86	74.0	49.5
[5	-3	6]	(3	5	0)	(-6	-4	3)	2.389	1.288	1.86	49.1	75.0
[5	-3	-5]	(3	5	0)	(5	5	2)	2.389	1.283	1.86	33.5	61.7
[5	-3	-1]	(3	5	0)	(1	3	-4)	2.389	1.282	1.86	86.9	76.2
[10	-6	7]	(3	5	0)	(-1	3	4)	2.389	1.282	1.86	76.8	85.1
[5	-3	-10]	(3	5	0)	(-3	5	-3)	2.389	1.278	1.87	78.0	47.9
[5	-3	0]	(3	5	0)	(3	5	3)	2.389	1.278	1.87	47.4	80.3
[5	-3	2]	(3	5	0)	(5	9	1)	2.389	1.277	1.87	14.0	88.6
[5	-3	6]	(3	5	0)	(-3	3	4)	2.389	1.276	1.87	88.4	75.0
[10	-6	3]	(3	5	0)	(-3	-3	4)	2.389	1.276	1.87	75.3	86.5
[15	-9	46]	(3	5	0)	(5	-7	-3)	2.389	1.275	1.87	88.1	46.4
[15	-9	4]	(3	5	0)	(-5	-7	3)	2.389	1.275	1.87	46.5	85.8
[10	-6	11]	(3	5	0)	(-2	4	4)	2.389	1.268	1.88	80.0	77.0
[10	-6	-1]	(3	5	0)	(-2	-4	4)	2.389	1.268	1.88	78.5	78.2
[5	-3	3]	(3	5	0)	(6	8	-2)	2.389	1.268	1.88	28.7	87.2
[10	-6	3]	(3	5	0)	(0	2	4)	2.389	1.267	1.89	73.8	86.5
[5	-3	10]	(3	5	0)	(-7	-5	2)	2.389	1.266	1.89	33.3	60.7
[10	-6	13]	(3	5	0)	(4	-2	-4)	2.389	1.256	1.90	83.2	73.0
[10	-6	7]	(3	5	0)	(-4	-2	4)	2.389	1.256	1.90	72.4	85.1
[15	-9	-32]	(3	5	0)	(-1	9	-3)	2.389	1.255	1.90	79.8	46.4
[15	-9	22]	(3	5	0)	(1	9	3)	2.389	1.255	1.90	49.3	69.9
[15	-9	-20]	(3	5	0)	(4	0	3)	2.389	1.247	1.92	58.0	56.6
[15	-9	14]	(3	5	0)	(2	8	3)	2.389	1.244	1.92	45.7	80.3
[15	-9	-26]	(3	5	0)	(4	-2	3)	2.389	1.236	1.93	64.3	51.1
[15	-9	-14]	(3	5	0)	(4	2	3)	2.389	1.236	1.93	52.0	62.8
[5	-3	14]	(3	5	0)	(7	7	-1)	2.389	1.235	1.93	17.9	49.5

Winchite (350) 326 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** ***α*** **90°** ***β*** **104.54°** ***γ*** **90°**

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[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[10	-6	-5]	(3	5	0)	(-1	-5	4)	2.389	1.233	1.94	81.9	70.5
[5	-3	5]	(3	5	0)	(-1	5	4)	2.389	1.233	1.94	71.9	79.0
[10	-6	15]	(3	5	0)	(3	-5	-4)	2.389	1.228	1.95	83.3	69.3
[5	-3	0]	(3	5	0)	(3	5	-4)	2.389	1.228	1.95	70.5	80.3
[10	-6	-1]	(3	5	0)	(1	1	4)	2.389	1.225	1.95	71.2	78.2
[15	-9	38]	(3	5	0)	(7	-1	-3)	2.389	1.223	1.95	60.5	52.9
[15	-9	32]	(3	5	0)	(-7	-1	3)	2.389	1.223	1.95	54.4	58.6
[5	-3	-2]	(3	5	0)	(5	7	2)	2.389	1.212	1.97	28.7	72.4
[5	-3	7]	(3	5	0)	(5	-1	-4)	2.389	1.210	1.97	75.3	71.1
[10	-6	11]	(3	5	0)	(-5	-1	4)	2.389	1.210	1.97	70.0	77.0
[5	-3	2]	(3	5	0)	(3	7	3)	2.389	1.208	1.98	43.3	88.6
[10	-6	-7]	(3	5	0)	(-1	3	-4)	2.389	1.203	1.99	82.0	66.8
[5	-3	1]	(3	5	0)	(1	3	4)	2.389	1.203	1.99	66.2	84.4
[15	-9	-32]	(3	5	0)	(-4	4	-3)	2.389	1.202	1.99	70.5	46.4
[15	-9	-8]	(3	5	0)	(4	4	3)	2.389	1.202	1.99	46.6	69.8
[5	-3	-6]	(3	5	0)	(6	8	1)	2.389	1.202	1.99	15.5	58.6
[15	-9	44]	(3	5	0)	(7	-3	-3)	2.389	1.201	1.99	66.7	47.9
[15	-9	26]	(3	5	0)	(-7	-3	3)	2.389	1.201	1.99	48.7	65.1
[5	-3	7]	(3	5	0)	(7	7	-2)	2.389	1.197	2.00	28.6	71.1
[10	-6	17]	(3	5	0)	(-5	3	4)	2.389	1.189	2.01	80.7	65.7
[5	-3	4]	(3	5	0)	(5	3	-4)	2.389	1.189	2.01	65.0	83.1
[15	-9	-2]	(3	5	0)	(-5	-9	3)	2.389	1.184	2.02	43.5	77.6
[5	-3	-9]	(3	5	0)	(6	4	2)	2.389	1.178	2.03	35.4	50.3
[10	-6	-9]	(3	5	0)	(0	-6	4)	2.389	1.177	2.03	85.1	63.4
[10	-6	9]	(3	5	0)	(0	6	4)	2.389	1.177	2.03	64.4	81.0
[5	-3	-4]	(3	5	0)	(-1	-7	4)	2.389	1.169	2.04	77.3	65.1
[10	-6	13]	(3	5	0)	(-1	7	4)	2.389	1.169	2.04	67.6	73.0
[10	-6	19]	(3	5	0)	(4	-6	-4)	2.389	1.168	2.05	86.5	62.3
[10	-6	1]	(3	5	0)	(4	6	-4)	2.389	1.168	2.05	63.1	82.3
[5	-3	9]	(3	5	0)	(3	-7	-4)	2.389	1.165	2.05	78.7	64.0
[10	-6	-3]	(3	5	0)	(3	7	-4)	2.389	1.165	2.05	66.3	74.3
[10	-6	-5]	(3	5	0)	(2	0	4)	2.389	1.165	2.05	69.2	70.5
[5	-3	-5]	(3	5	0)	(1	-5	4)	2.389	1.163	2.05	87.2	61.7
[10	-6	5]	(3	5	0)	(1	5	4)	2.389	1.163	2.05	61.6	89.3
[5	-3	14]	(3	5	0)	(8	4	-2)	2.389	1.162	2.06	35.3	49.5
[15	-9	20]	(3	5	0)	(-7	-5	3)	2.389	1.160	2.06	43.7	72.4
[5	-3	2]	(3	5	0)	(6	8	-3)	2.389	1.154	2.07	40.9	88.6
[15	-9	-2]	(3	5	0)	(4	6	3)	2.389	1.152	2.07	42.0	77.6
[5	-3	8]	(3	5	0)	(7	9	-1)	2.389	1.152	2.07	13.6	67.5
[5	-3	10]	(3	5	0)	(-5	5	4)	2.389	1.150	2.08	85.9	60.7
[10	-6	5]	(3	5	0)	(5	5	-4)	2.389	1.150	2.08	60.4	89.3
[10	-6	15]	(3	5	0)	(-6	0	4)	2.389	1.147	2.08	68.1	69.3
[10	-6	17]	(3	5	0)	(-2	8	4)	2.389	1.140	2.10	71.2	65.7
[10	-6	-7]	(3	5	0)	(-2	-8	4)	2.389	1.140	2.10	69.8	66.8
[15	-9	-28]	(3	5	0)	(-5	1	-3)	2.389	1.136	2.10	58.0	49.4
[15	-9	-22]	(3	5	0)	(5	1	3)	2.389	1.136	2.10	52.2	54.7
[5	-3	1]	(3	5	0)	(5	9	2)	2.389	1.133	2.11	25.5	84.4
[10	-6	-11]	(3	5	0)	(2	-4	4)	2.389	1.128	2.12	79.8	60.1

Winchite (350) 326 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[10	-6	1]	(3	5	0)	(2	4	4)	2.389	1.128	2.12	59.4	82.3
[5	-3	4]	(3	5	0)	(7	9	-2)	2.389	1.121	2.13	25.3	83.1
[15	-9	40]	(3	5	0)	(8	0	-3)	2.389	1.118	2.14	54.6	51.1
[15	-9	-16]	(3	5	0)	(5	3	3)	2.389	1.118	2.14	46.7	60.6
[5	-3	11]	(3	5	0)	(8	6	-2)	2.389	1.117	2.14	30.0	57.6
[10	-6	21]	(3	5	0)	(6	-4	-4)	2.389	1.112	2.15	78.6	59.1
[10	-6	9]	(3	5	0)	(-6	-4	4)	2.389	1.112	2.15	58.4	81.0
[15	-9	46]	(3	5	0)	(8	-2	-3)	2.389	1.110	2.15	60.4	46.4
[15	-9	34]	(3	5	0)	(-8	-2	3)	2.389	1.110	2.15	48.9	56.6
[10	-6	-13]	(3	5	0)	(-1	7	-4)	2.389	1.109	2.15	88.0	57.1
[5	-3	4]	(3	5	0)	(1	7	4)	2.389	1.109	2.15	57.7	83.1
[15	-9	14]	(3	5	0)	(7	7	-3)	2.389	1.107	2.16	39.6	80.3
[10	-6	-11]	(3	5	0)	(-1	-9	4)	2.389	1.098	2.18	73.3	60.1
[5	-3	8]	(3	5	0)	(-1	9	4)	2.389	1.098	2.18	64.0	67.5
[10	-6	23]	(3	5	0)	(5	-7	-4)	2.389	1.097	2.18	89.3	56.1
[5	-3	1]	(3	5	0)	(5	7	-4)	2.389	1.097	2.18	56.5	84.4
[10	-6	21]	(3	5	0)	(-3	9	4)	2.389	1.094	2.18	74.7	59.1
[5	-3	-3]	(3	5	0)	(3	9	-4)	2.389	1.094	2.18	62.7	68.6
[10	-6	-9]	(3	5	0)	(-3	1	-4)	2.389	1.094	2.18	67.7	63.4
[5	-3	-3]	(3	5	0)	(3	1	4)	2.389	1.094	2.18	62.7	68.6
[15	-9	4]	(3	5	0)	(4	8	3)	2.389	1.091	2.19	38.4	85.8
[15	-9	28]	(3	5	0)	(8	4	-3)	2.389	1.085	2.20	43.8	62.9
[15	-9	-10]	(3	5	0)	(5	5	3)	2.389	1.085	2.20	41.8	67.4
[5	-3	-6]	(3	5	0)	(3	-3	4)	2.389	1.078	2.22	72.9	58.6
[10	-6	-3]	(3	5	0)	(3	3	4)	2.389	1.078	2.22	57.9	74.3
[10	-6	19]	(3	5	0)	(7	-1	-4)	2.389	1.076	2.22	66.8	62.3
[5	-3	8]	(3	5	0)	(-7	-1	4)	2.389	1.076	2.22	61.8	67.5
[5	-3	-3]	(3	5	0)	(6	8	2)	2.389	1.073	2.23	25.8	68.6
[5	-3	11]	(3	5	0)	(7	-3	-4)	2.389	1.061	2.25	71.9	57.6
[10	-6	13]	(3	5	0)	(-7	-3	4)	2.389	1.061	2.25	57.0	73.0
[5	-3	2]	(3	5	0)	(-2	0	5)	2.389	1.057	2.26	88.4	88.6
[5	-3	-8]	(3	5	0)	(7	9	1)	2.389	1.055	2.26	14.5	52.8
[25	-15	18]	(3	5	0)	(3	-1	-5)	2.389	1.053	2.27	89.1	84.7
[25	-15	12]	(3	5	0)	(-3	-1	5)	2.389	1.053	2.27	84.6	89.7
[25	-15	4]	(3	5	0)	(2	2	-5)	2.389	1.050	2.28	87.2	83.6
[25	-15	16]	(3	5	0)	(2	-2	-5)	2.389	1.050	2.28	84.0	86.4
[10	-6	-15]	(3	5	0)	(3	-5	4)	2.389	1.048	2.28	77.9	54.2
[5	-3	0]	(3	5	0)	(3	5	4)	2.389	1.048	2.28	53.6	80.3
[15	-9	22]	(3	5	0)	(-8	-6	3)	2.389	1.048	2.28	39.3	69.9
[5	-3	-8]	(3	5	0)	(-1	9	-4)	2.389	1.047	2.28	83.7	52.8
[10	-6	11]	(3	5	0)	(1	9	4)	2.389	1.047	2.28	54.4	77.0
[5	-3	-10]	(3	5	0)	(7	5	2)	2.389	1.047	2.28	32.3	47.9
[15	-9	8]	(3	5	0)	(7	9	-3)	2.389	1.045	2.29	36.4	88.6
[25	-15	2]	(3	5	0)	(1	1	-5)	2.389	1.044	2.29	85.9	81.9
[25	-15	8]	(3	5	0)	(-1	1	5)	2.389	1.044	2.29	81.5	86.9
[15	-9	-4]	(3	5	0)	(5	7	3)	2.389	1.041	2.30	37.7	74.9
[25	-15	24]	(3	5	0)	(-3	3	5)	2.389	1.039	2.30	86.5	79.8
[25	-15	6]	(3	5	0)	(-3	-3	5)	2.389	1.039	2.30	80.3	85.2

Winchite (350) 326 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** ***α*** **90°** ***β*** **104.54°** ***γ*** **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[5	-3	13]	(3	5	0)	(-5	9	4)	2.389	1.038	2.30	85.0	52.0
[10	-6	-1]	(3	5	0)	(-5	-9	4)	2.389	1.038	2.30	53.3	78.2
[10	-6	-17]	(3	5	0)	(2	-8	4)	2.389	1.035	2.31	89.3	51.5
[10	-6	7]	(3	5	0)	(2	8	4)	2.389	1.035	2.31	51.8	85.1
[5	-3	15]	(3	5	0)	(-9	-5	2)	2.389	1.034	2.31	32.3	47.1
[5	-3	-8]	(3	5	0)	(6	2	3)	2.389	1.033	2.31	47.4	52.8
[25	-15	26]	(3	5	0)	(-4	2	5)	2.389	1.033	2.31	86.6	78.2
[25	-15	14]	(3	5	0)	(4	2	-5)	2.389	1.033	2.31	77.8	88.1
[10	-6	25]	(3	5	0)	(-7	5	4)	2.389	1.032	2.31	76.9	53.3
[5	-3	5]	(3	5	0)	(7	5	-4)	2.389	1.032	2.31	52.7	79.0
[25	-15	-4]	(3	5	0)	(-1	-3	5)	2.389	1.031	2.32	89.7	77.0
[25	-15	14]	(3	5	0)	(-1	3	5)	2.389	1.031	2.32	77.2	88.1
[25	-15	-2]	(3	5	0)	(-2	-4	5)	2.389	1.029	2.32	82.9	78.6
[25	-15	22]	(3	5	0)	(-2	4	5)	2.389	1.029	2.32	79.7	81.4
[10	-6	3]	(3	5	0)	(-6	-8	4)	2.389	1.023	2.34	50.8	86.5
[5	-3	14]	(3	5	0)	(9	1	-3)	2.389	1.021	2.34	49.7	49.5
[10	-6	-13]	(3	5	0)	(-4	2	-4)	2.389	1.019	2.34	66.7	57.1
[10	-6	-7]	(3	5	0)	(4	2	4)	2.389	1.019	2.34	57.0	66.8
[25	-15	-6]	(3	5	0)	(0	2	-5)	2.389	1.017	2.35	83.5	75.5
[25	-15	6]	(3	5	0)	(0	2	5)	2.389	1.017	2.35	74.8	85.2
[5	-3	-6]	(3	5	0)	(6	4	3)	2.389	1.014	2.36	42.4	58.6
[25	-15	32]	(3	5	0)	(-4	4	5)	2.389	1.013	2.36	89.1	73.4
[25	-15	8]	(3	5	0)	(-4	-4	5)	2.389	1.013	2.36	73.7	86.9
[25	-15	28]	(3	5	0)	(5	-1	-5)	2.389	1.013	2.36	79.9	76.6
[25	-15	22]	(3	5	0)	(-5	-1	5)	2.389	1.013	2.36	75.6	81.4
[5	-3	6]	(3	5	0)	(-3	5	5)	2.389	1.012	2.36	82.4	75.0
[5	-3	0]	(3	5	0)	(-3	-5	5)	2.389	1.012	2.36	76.2	80.3
[5	-3	12]	(3	5	0)	(9	3	-3)	2.389	1.008	2.37	44.5	54.7
[5	-3	-9]	(3	5	0)	(-3	7	-4)	2.389	1.008	2.37	82.7	50.3
[10	-6	3]	(3	5	0)	(3	7	4)	2.389	1.008	2.37	49.8	86.5
[5	-3	-7]	(3	5	0)	(7	7	2)	2.389	1.007	2.37	27.5	55.6
[5	-3	-2]	(3	5	0)	(-1	-5	5)	2.389	1.005	2.38	85.5	72.4
[5	-3	4]	(3	5	0)	(-1	5	5)	2.389	1.005	2.38	73.1	83.1
[15	-9	16]	(3	5	0)	(8	8	-3)	2.389	1.002	2.39	35.6	77.6
[10	-6	23]	(3	5	0)	(-8	2	4)	2.389	1.001	2.39	65.9	56.1
[10	-6	17]	(3	5	0)	(8	2	-4)	2.389	1.001	2.39	56.2	65.7
[25	-15	34]	(3	5	0)	(-5	3	5)	2.389	1.000	2.39	84.3	71.9
[25	-15	16]	(3	5	0)	(5	3	-5)	2.389	1.000	2.39	71.4	86.4

Winchite (370) 312 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[7	-3	0]	(3	7	0)	(0	0	1)	2.004	5.119	0.39	80.9	78.6
[7	-3	10]	(3	7	0)	(1	-1	-1)	2.004	4.882	0.41	87.8	67.5
[7	-3	4]	(3	7	0)	(1	1	-1)	2.004	4.882	0.41	67.6	87.4
[7	-3	6]	(3	7	0)	(0	2	1)	2.004	4.451	0.45	58.6	80.5
[7	-3	14]	(3	7	0)	(2	0	-1)	2.004	4.031	0.50	66.0	56.6
[7	-3	-10]	(3	7	0)	(1	-1	1)	2.004	4.000	0.50	77.6	50.8
[7	-3	-4]	(3	7	0)	(1	1	1)	2.004	4.000	0.50	56.0	65.9
[7	-3	-2]	(3	7	0)	(-1	-3	1)	2.004	3.876	0.52	50.4	72.0
[7	-3	8]	(3	7	0)	(2	2	-1)	2.004	3.680	0.54	46.4	73.8
[7	-3	2]	(3	7	0)	(1	3	1)	2.004	3.388	0.59	40.0	85.5
[7	-3	-12]	(3	7	0)	(0	4	-1)	2.004	3.383	0.59	61.4	46.8
[7	-3	12]	(3	7	0)	(0	4	1)	2.004	3.383	0.59	46.6	61.8
[7	-3	18]	(3	7	0)	(-3	-1	1)	2.004	3.025	0.66	50.5	47.8
[7	-3	2]	(3	7	0)	(2	4	-1)	2.004	3.005	0.67	34.7	85.5
[7	-3	-8]	(3	7	0)	(2	2	1)	2.004	2.949	0.68	42.7	55.2
[7	-3	-8]	(3	7	0)	(1	5	-1)	2.004	2.939	0.68	42.6	55.2
[7	-3	12]	(3	7	0)	(3	3	-1)	2.004	2.733	0.73	35.9	61.8
[7	-3	8]	(3	7	0)	(1	5	1)	2.004	2.708	0.74	32.2	73.8
[7	-3	5]	(3	7	0)	(1	-1	-2)	2.004	2.616	0.77	84.2	83.9
[7	-3	2]	(3	7	0)	(1	1	-2)	2.004	2.616	0.77	82.9	85.5
[7	-3	18]	(3	7	0)	(0	6	1)	2.004	2.592	0.77	41.4	47.8
[7	-3	-2]	(3	7	0)	(2	4	1)	2.004	2.566	0.78	30.7	72.0
[7	-3	7]	(3	7	0)	(2	0	-2)	2.004	2.536	0.79	79.7	77.1
[7	-3	-3]	(3	7	0)	(0	-2	2)	2.004	2.462	0.81	86.6	68.9
[7	-3	3]	(3	7	0)	(0	2	2)	2.004	2.462	0.81	68.6	89.0
[7	-3	8]	(3	7	0)	(1	-3	-2)	2.004	2.420	0.83	72.4	73.8
[7	-3	-1]	(3	7	0)	(1	3	-2)	2.004	2.420	0.83	71.2	75.3
[7	-3	-4]	(3	7	0)	(2	6	-1)	2.004	2.409	0.83	29.9	65.9
[7	-3	6]	(3	7	0)	(-3	-5	1)	2.004	2.337	0.86	26.6	80.5
[7	-3	-5]	(3	7	0)	(1	-1	2)	2.004	2.311	0.87	78.7	63.0
[7	-3	-2]	(3	7	0)	(1	1	2)	2.004	2.311	0.87	66.8	72.0
[7	-3	12]	(3	7	0)	(3	-1	-2)	2.004	2.277	0.88	77.8	61.8
[7	-3	9]	(3	7	0)	(3	1	-2)	2.004	2.277	0.88	65.9	70.6
[7	-3	-12]	(3	7	0)	(3	3	1)	2.004	2.261	0.89	35.9	46.8
[7	-3	13]	(3	7	0)	(-2	4	2)	2.004	2.210	0.91	77.0	59.1
[7	-3	1]	(3	7	0)	(-2	-4	2)	2.004	2.210	0.91	57.6	82.0
[7	-3	14]	(3	7	0)	(1	7	1)	2.004	2.181	0.92	29.6	56.6
[7	-3	-8]	(3	7	0)	(1	-3	2)	2.004	2.172	0.92	89.8	55.2
[7	-3	1]	(3	7	0)	(1	3	2)	2.004	2.172	0.92	56.1	82.0
[7	-3	4]	(3	7	0)	(2	6	1)	2.004	2.165	0.93	24.2	87.4
[7	-3	15]	(3	7	0)	(3	-3	-2)	2.004	2.144	0.93	89.1	54.2
[7	-3	6]	(3	7	0)	(3	3	-2)	2.004	2.144	0.93	55.3	80.5
[7	-3	11]	(3	7	0)	(1	-5	-2)	2.004	2.132	0.94	63.2	64.6
[7	-3	-4]	(3	7	0)	(1	5	-2)	2.004	2.132	0.94	62.1	65.9
[7	-3	16]	(3	7	0)	(-4	-4	1)	2.004	2.122	0.94	30.6	51.9
[7	-3	-7]	(3	7	0)	(2	0	2)	2.004	2.051	0.98	66.6	57.7
[7	-3	-6]	(3	7	0)	(3	5	1)	2.004	2.021	0.99	26.1	60.3
[7	-3	17]	(3	7	0)	(-4	2	2)	2.004	1.967	1.02	76.8	49.8

Winchite (370) 312 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

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[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[7	-3	11]	(3	7	0)	(4	2	-2)	2.004	1.967	1.02	55.4	64.6
[7	-3	-11]	(3	7	0)	(1	-5	2)	2.004	1.957	1.02	80.1	48.7
[7	-3	4]	(3	7	0)	(1	5	2)	2.004	1.957	1.02	47.8	87.4
[7	-3	-9]	(3	7	0)	(0	-6	2)	2.004	1.949	1.03	67.5	52.9
[7	-3	9]	(3	7	0)	(0	6	2)	2.004	1.949	1.03	51.4	70.6
[7	-3	18]	(3	7	0)	(3	-5	-2)	2.004	1.936	1.04	81.2	47.8
[7	-3	3]	(3	7	0)	(3	5	-2)	2.004	1.936	1.04	47.1	89.0
[7	-3	10]	(3	7	0)	(-4	-6	1)	2.004	1.878	1.07	22.6	67.5
[7	-3	-1]	(3	7	0)	(2	4	2)	2.004	1.867	1.07	46.9	75.3
[7	-3	14]	(3	7	0)	(1	-7	-2)	2.004	1.845	1.09	56.7	56.6
[7	-3	-7]	(3	7	0)	(1	7	-2)	2.004	1.845	1.09	55.6	57.7
[7	-3	10]	(3	7	0)	(2	8	1)	2.004	1.827	1.10	22.0	67.5
[7	-3	-12]	(3	7	0)	(3	-1	2)	2.004	1.778	1.13	67.3	46.8
[7	-3	-9]	(3	7	0)	(3	1	2)	2.004	1.778	1.13	57.4	52.9
[7	-3	0]	(3	7	0)	(3	7	1)	2.004	1.772	1.13	20.0	78.6
[21	-9	14]	(3	7	0)	(2	0	-3)	2.004	1.752	1.14	86.0	85.1
[21	-9	4]	(3	7	0)	(1	1	-3)	2.004	1.749	1.15	88.4	83.2
[21	-9	10]	(3	7	0)	(1	-1	-3)	2.004	1.749	1.15	83.0	89.8
[7	-3	19]	(3	7	0)	(5	-1	-2)	2.004	1.747	1.15	66.8	45.9
[7	-3	16]	(3	7	0)	(-5	-1	2)	2.004	1.747	1.15	57.1	51.9
[7	-3	7]	(3	7	0)	(1	7	2)	2.004	1.728	1.16	42.1	77.1
[21	-9	20]	(3	7	0)	(2	-2	-3)	2.004	1.720	1.17	85.4	78.2
[21	-9	8]	(3	7	0)	(2	2	-3)	2.004	1.720	1.17	77.5	87.9
[7	-3	0]	(3	7	0)	(-3	-7	2)	2.004	1.714	1.17	41.4	78.6
[7	-3	-6]	(3	7	0)	(3	3	2)	2.004	1.713	1.17	48.2	60.3
[21	-9	-2]	(3	7	0)	(-1	-3	3)	2.004	1.687	1.19	80.0	76.4
[21	-9	16]	(3	7	0)	(-1	3	3)	2.004	1.687	1.19	74.7	82.8
[7	-3	13]	(3	7	0)	(-5	-3	2)	2.004	1.685	1.19	48.0	59.1
[7	-3	19]	(3	7	0)	(-2	8	2)	2.004	1.685	1.19	62.5	45.9
[7	-3	-5]	(3	7	0)	(-2	-8	2)	2.004	1.685	1.19	45.6	63.0
[7	-3	8]	(3	7	0)	(3	-1	-3)	2.004	1.683	1.19	84.0	73.8
[7	-3	6]	(3	7	0)	(3	1	-3)	2.004	1.683	1.19	75.5	80.5
[7	-3	-6]	(3	7	0)	(3	9	-1)	2.004	1.678	1.19	21.4	60.3
[7	-3	-2]	(3	7	0)	(0	2	-3)	2.004	1.676	1.20	89.4	72.0
[7	-3	2]	(3	7	0)	(0	2	3)	2.004	1.676	1.20	72.6	85.5
[7	-3	5]	(3	7	0)	(-4	-6	2)	2.004	1.674	1.20	39.5	83.9
[7	-3	-10]	(3	7	0)	(4	6	1)	2.004	1.653	1.21	23.8	50.8
[7	-3	4]	(3	7	0)	(-4	-8	1)	2.004	1.645	1.22	18.1	87.4
[21	-9	26]	(3	7	0)	(-2	4	3)	2.004	1.633	1.23	77.5	71.6
[21	-9	2]	(3	7	0)	(-2	-4	3)	2.004	1.633	1.23	69.8	80.9
[21	-9	-10]	(3	7	0)	(1	-1	3)	2.004	1.605	1.25	79.3	67.9
[21	-9	-4]	(3	7	0)	(1	1	3)	2.004	1.605	1.25	71.1	74.2
[7	-3	-3]	(3	7	0)	(3	5	2)	2.004	1.601	1.25	40.5	68.9
[7	-3	17]	(3	7	0)	(1	-9	-2)	2.004	1.597	1.26	52.2	49.8
[7	-3	-10]	(3	7	0)	(1	9	-2)	2.004	1.597	1.26	51.2	50.8
[7	-3	-4]	(3	7	0)	(0	-4	3)	2.004	1.596	1.26	82.7	65.9
[7	-3	4]	(3	7	0)	(0	4	3)	2.004	1.596	1.26	65.0	87.4
[21	-9	28]	(3	7	0)	(-4	0	3)	2.004	1.589	1.26	74.2	69.6

Winchite (370) 312 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[21	-9	-8]	(3	7	0)	(1	5	-3)	2.004	1.580	1.27	72.6	69.9
[21	-9	22]	(3	7	0)	(1	-5	-3)	2.004	1.580	1.27	67.5	76.0
[7	-3	10]	(3	7	0)	(5	5	-2)	2.004	1.578	1.27	40.2	67.5
[21	-9	34]	(3	7	0)	(-4	2	3)	2.004	1.565	1.28	82.3	63.6
[21	-9	22]	(3	7	0)	(4	2	-3)	2.004	1.565	1.28	66.2	76.0
[7	-3	14]	(3	7	0)	(-5	-7	1)	2.004	1.558	1.29	20.7	56.6
[21	-9	-16]	(3	7	0)	(1	-3	3)	2.004	1.556	1.29	87.4	62.1
[21	-9	2]	(3	7	0)	(1	3	3)	2.004	1.556	1.29	63.4	80.9
[7	-3	6]	(3	7	0)	(3	9	1)	2.004	1.549	1.29	17.3	80.5
[7	-3	-11]	(3	7	0)	(4	2	2)	2.004	1.537	1.30	50.7	48.7
[7	-3	12]	(3	7	0)	(-3	5	3)	2.004	1.531	1.31	80.3	61.8
[7	-3	2]	(3	7	0)	(3	5	-3)	2.004	1.531	1.31	60.6	85.5
[7	-3	10]	(3	7	0)	(1	9	2)	2.004	1.519	1.32	38.4	67.5
[7	-3	5]	(3	7	0)	(2	8	2)	2.004	1.517	1.32	35.2	83.9
[21	-9	32]	(3	7	0)	(2	-6	-3)	2.004	1.514	1.32	70.6	65.5
[21	-9	-4]	(3	7	0)	(2	6	-3)	2.004	1.514	1.32	63.2	74.2
[7	-3	-3]	(3	7	0)	(3	9	-2)	2.004	1.509	1.33	37.7	68.9
[21	-9	40]	(3	7	0)	(-4	4	3)	2.004	1.499	1.34	89.9	58.2
[21	-9	16]	(3	7	0)	(-4	-4	3)	2.004	1.499	1.34	59.0	82.8
[21	-9	-14]	(3	7	0)	(2	0	3)	2.004	1.492	1.34	70.4	64.0
[7	-3	-4]	(3	7	0)	(4	8	1)	2.004	1.487	1.35	18.0	65.9
[21	-9	-20]	(3	7	0)	(-2	2	-3)	2.004	1.472	1.36	78.2	58.5
[21	-9	-8]	(3	7	0)	(2	2	3)	2.004	1.472	1.36	62.8	69.9
[21	-9	-22]	(3	7	0)	(-1	5	-3)	2.004	1.471	1.36	85.2	56.9
[21	-9	8]	(3	7	0)	(1	5	3)	2.004	1.471	1.36	56.6	87.9
[7	-3	0]	(3	7	0)	(3	7	2)	2.004	1.468	1.37	34.5	78.6
[21	-9	38]	(3	7	0)	(-5	1	3)	2.004	1.463	1.37	73.5	60.0
[21	-9	32]	(3	7	0)	(5	1	-3)	2.004	1.463	1.37	65.8	65.5
[7	-3	15]	(3	7	0)	(6	4	-2)	2.004	1.452	1.38	42.6	54.2
[21	-9	-14]	(3	7	0)	(-1	-7	3)	2.004	1.452	1.38	66.5	64.0
[21	-9	28]	(3	7	0)	(-1	7	3)	2.004	1.452	1.38	61.5	69.6
[7	-3	7]	(3	7	0)	(-5	-7	2)	2.004	1.451	1.38	34.3	77.1
[21	-9	44]	(3	7	0)	(5	-3	-3)	2.004	1.426	1.41	81.1	55.0
[21	-9	26]	(3	7	0)	(5	3	-3)	2.004	1.426	1.41	58.5	71.6
[21	-9	-26]	(3	7	0)	(-2	4	-3)	2.004	1.417	1.41	85.8	53.7
[21	-9	-2]	(3	7	0)	(2	4	3)	2.004	1.417	1.41	55.8	76.4
[7	-3	14]	(3	7	0)	(-3	7	3)	2.004	1.413	1.42	73.9	56.6
[7	-3	0]	(3	7	0)	(-3	-7	3)	2.004	1.413	1.42	54.9	78.6
[21	-9	46]	(3	7	0)	(-4	6	3)	2.004	1.405	1.43	83.0	53.4
[21	-9	10]	(3	7	0)	(4	6	-3)	2.004	1.405	1.43	52.8	89.8
[7	-3	8]	(3	7	0)	(-5	-9	1)	2.004	1.399	1.43	16.0	73.8
[7	-3	-5]	(3	7	0)	(4	6	2)	2.004	1.385	1.45	36.0	63.0
[21	-9	38]	(3	7	0)	(-2	8	3)	2.004	1.383	1.45	65.0	60.0
[21	-9	-10]	(3	7	0)	(-2	-8	3)	2.004	1.383	1.45	57.9	67.9
[21	-9	14]	(3	7	0)	(1	7	3)	2.004	1.366	1.47	51.1	85.1
[7	-3	-8]	(3	7	0)	(-3	1	-3)	2.004	1.363	1.47	70.3	55.2
[7	-3	-6]	(3	7	0)	(3	1	3)	2.004	1.363	1.47	62.9	60.3
[7	-3	-8]	(3	7	0)	(0	-8	3)	2.004	1.360	1.47	69.9	55.2

Winchite (370) 312 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** ***α*** **90°** ***β*** **104.54°** ***γ*** **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[7	-3	8]	(3	7	0)	(0	8	3)	2.004	1.360	1.47	53.5	73.8
[21	-9	50]	(3	7	0)	(-5	5	3)	2.004	1.360	1.47	88.3	50.5
[21	-9	20]	(3	7	0)	(5	5	-3)	2.004	1.360	1.47	52.0	78.2
[21	-9	4]	(3	7	0)	(2	6	3)	2.004	1.336	1.50	49.8	83.2
[7	-3	3]	(3	7	0)	(3	9	2)	2.004	1.333	1.50	30.3	89.0
[7	-3	16]	(3	7	0)	(6	-2	-3)	2.004	1.329	1.51	73.2	51.9
[7	-3	12]	(3	7	0)	(-6	-2	3)	2.004	1.329	1.51	58.8	61.8
[7	-3	18]	(3	7	0)	(6	8	-1)	2.004	1.326	1.51	19.8	47.8
[14	-6	7]	(3	7	0)	(-2	0	4)	2.004	1.322	1.52	89.4	89.2
[21	-9	-20]	(3	7	0)	(1	9	-3)	2.004	1.321	1.52	61.5	58.5
[21	-9	34]	(3	7	0)	(1	-9	-3)	2.004	1.321	1.52	56.8	63.6
[7	-3	4]	(3	7	0)	(5	9	-2)	2.004	1.320	1.52	30.0	87.4
[7	-3	1]	(3	7	0)	(1	1	-4)	2.004	1.309	1.53	88.9	82.0
[14	-6	5]	(3	7	0)	(-1	1	4)	2.004	1.309	1.53	82.4	87.3
[7	-3	6]	(3	7	0)	(-3	1	4)	2.004	1.303	1.54	87.7	80.5
[14	-6	9]	(3	7	0)	(3	1	-4)	2.004	1.303	1.54	81.2	85.7
[21	-9	52]	(3	7	0)	(4	-8	-3)	2.004	1.299	1.54	77.0	49.1
[21	-9	4]	(3	7	0)	(4	8	-3)	2.004	1.299	1.54	47.9	83.2
[7	-3	18]	(3	7	0)	(-6	4	3)	2.004	1.288	1.56	80.3	47.8
[7	-3	10]	(3	7	0)	(6	4	-3)	2.004	1.288	1.56	52.2	67.5
[7	-3	-10]	(3	7	0)	(5	5	2)	2.004	1.283	1.56	38.8	50.8
[14	-6	-1]	(3	7	0)	(-1	-3	4)	2.004	1.282	1.56	84.7	76.9
[7	-3	4]	(3	7	0)	(-1	3	4)	2.004	1.282	1.56	76.1	87.4
[7	-3	-12]	(3	7	0)	(3	-5	3)	2.004	1.278	1.57	84.5	46.8
[7	-3	-2]	(3	7	0)	(3	5	3)	2.004	1.278	1.57	49.7	72.0
[7	-3	-8]	(3	7	0)	(5	9	1)	2.004	1.277	1.57	17.1	55.2
[14	-6	15]	(3	7	0)	(3	-3	-4)	2.004	1.276	1.57	86.0	75.4
[7	-3	3]	(3	7	0)	(3	3	-4)	2.004	1.276	1.57	74.9	89.0
[21	-9	56]	(3	7	0)	(5	-7	-3)	2.004	1.275	1.57	85.3	46.6
[21	-9	14]	(3	7	0)	(5	7	-3)	2.004	1.275	1.57	46.6	85.1
[14	-6	13]	(3	7	0)	(-2	4	4)	2.004	1.268	1.58	78.0	78.8
[14	-6	1]	(3	7	0)	(-2	-4	4)	2.004	1.268	1.58	76.7	80.3
[7	-3	9]	(3	7	0)	(6	8	-2)	2.004	1.268	1.58	30.6	70.6
[14	-6	3]	(3	7	0)	(0	2	4)	2.004	1.267	1.58	74.6	83.8
[7	-3	17]	(3	7	0)	(7	5	-2)	2.004	1.266	1.58	38.8	49.8
[14	-6	17]	(3	7	0)	(-4	2	4)	2.004	1.256	1.60	86.1	72.2
[14	-6	11]	(3	7	0)	(4	2	-4)	2.004	1.256	1.60	73.5	82.2
[21	-9	-34]	(3	7	0)	(1	-9	3)	2.004	1.255	1.60	73.3	48.0
[21	-9	20]	(3	7	0)	(1	9	3)	2.004	1.255	1.60	46.7	78.2
[21	-9	-28]	(3	7	0)	(4	0	3)	2.004	1.247	1.61	63.6	52.2
[21	-9	-38]	(3	7	0)	(-2	8	-3)	2.004	1.244	1.61	81.4	45.6
[21	-9	10]	(3	7	0)	(2	8	3)	2.004	1.244	1.61	44.9	89.8
[21	-9	-34]	(3	7	0)	(4	-2	3)	2.004	1.236	1.62	70.5	48.0
[21	-9	-22]	(3	7	0)	(4	2	3)	2.004	1.236	1.62	56.8	56.9
[7	-3	-2]	(3	7	0)	(1	5	-4)	2.004	1.233	1.62	78.8	72.0
[14	-6	11]	(3	7	0)	(1	-5	-4)	2.004	1.233	1.62	70.3	82.2
[7	-3	9]	(3	7	0)	(-3	5	4)	2.004	1.228	1.63	80.0	70.6
[14	-6	3]	(3	7	0)	(-3	-5	4)	2.004	1.228	1.63	69.1	83.8

Winchite (370) 312 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[7	-3	-1]	(3	7	0)	(1	1	4)	2.004	1.225	1.64	73.4	75.3
[21	-9	52]	(3	7	0)	(-7	1	3)	2.004	1.223	1.64	66.5	49.1
[21	-9	46]	(3	7	0)	(7	1	-3)	2.004	1.223	1.64	59.7	53.4
[7	-3	-7]	(3	7	0)	(5	7	2)	2.004	1.212	1.65	32.8	57.7
[14	-6	19]	(3	7	0)	(5	-1	-4)	2.004	1.210	1.66	78.6	69.0
[7	-3	8]	(3	7	0)	(-5	-1	4)	2.004	1.210	1.66	72.4	73.8
[7	-3	0]	(3	7	0)	(3	7	3)	2.004	1.208	1.66	44.3	78.6
[7	-3	-4]	(3	7	0)	(-1	3	-4)	2.004	1.203	1.67	85.8	65.9
[14	-6	1]	(3	7	0)	(1	3	4)	2.004	1.203	1.67	67.4	80.3
[21	-9	-16]	(3	7	0)	(4	4	3)	2.004	1.202	1.67	50.5	62.1
[21	-9	58]	(3	7	0)	(7	-3	-3)	2.004	1.201	1.67	73.3	45.3
[21	-9	40]	(3	7	0)	(7	3	-3)	2.004	1.201	1.67	53.2	58.2
[7	-3	14]	(3	7	0)	(-7	-7	2)	2.004	1.197	1.67	32.8	56.6
[7	-3	11]	(3	7	0)	(5	-3	-4)	2.004	1.189	1.69	84.7	64.6
[14	-6	13]	(3	7	0)	(-5	-3	4)	2.004	1.189	1.69	66.5	78.8
[21	-9	8]	(3	7	0)	(5	9	-3)	2.004	1.184	1.69	42.2	87.9
[14	-6	-9]	(3	7	0)	(0	-6	4)	2.004	1.177	1.70	80.9	64.4
[14	-6	9]	(3	7	0)	(0	6	4)	2.004	1.177	1.70	63.3	85.7
[14	-6	-7]	(3	7	0)	(-1	-7	4)	2.004	1.169	1.71	73.4	67.4
[7	-3	7]	(3	7	0)	(-1	7	4)	2.004	1.169	1.71	65.2	77.1
[14	-6	23]	(3	7	0)	(4	-6	-4)	2.004	1.168	1.72	82.1	63.2
[14	-6	5]	(3	7	0)	(4	6	-4)	2.004	1.168	1.72	62.2	87.3
[14	-6	21]	(3	7	0)	(3	-7	-4)	2.004	1.165	1.72	74.7	66.0
[7	-3	0]	(3	7	0)	(3	7	-4)	2.004	1.165	1.72	64.0	78.6
[14	-6	-7]	(3	7	0)	(2	0	4)	2.004	1.165	1.72	72.7	67.4
[14	-6	-11]	(3	7	0)	(-1	5	-4)	2.004	1.163	1.72	88.3	61.6
[7	-3	2]	(3	7	0)	(1	5	4)	2.004	1.163	1.72	61.9	85.5
[21	-9	34]	(3	7	0)	(-7	-5	3)	2.004	1.160	1.73	47.3	63.6
[7	-3	6]	(3	7	0)	(6	8	-3)	2.004	1.154	1.74	41.6	80.5
[21	-9	-10]	(3	7	0)	(4	6	3)	2.004	1.152	1.74	44.9	67.9
[14	-6	25]	(3	7	0)	(-5	5	4)	2.004	1.150	1.74	89.4	60.4
[7	-3	5]	(3	7	0)	(-5	-5	4)	2.004	1.150	1.74	61.0	83.9
[14	-6	21]	(3	7	0)	(6	0	-4)	2.004	1.147	1.75	71.8	66.0
[14	-6	19]	(3	7	0)	(2	-8	-4)	2.004	1.140	1.76	67.5	69.0
[14	-6	-5]	(3	7	0)	(2	8	-4)	2.004	1.140	1.76	66.3	70.4
[21	-9	-38]	(3	7	0)	(-5	1	-3)	2.004	1.136	1.76	64.5	45.6
[21	-9	-32]	(3	7	0)	(5	1	3)	2.004	1.136	1.76	58.1	49.4
[7	-3	-4]	(3	7	0)	(5	9	2)	2.004	1.133	1.77	28.0	65.9
[14	-6	-13]	(3	7	0)	(-2	4	-4)	2.004	1.128	1.78	84.6	59.0
[14	-6	-1]	(3	7	0)	(2	4	4)	2.004	1.128	1.78	61.1	76.9
[7	-3	11]	(3	7	0)	(-7	-9	2)	2.004	1.121	1.79	28.0	64.6
[21	-9	56]	(3	7	0)	(8	0	-3)	2.004	1.118	1.79	60.9	46.6
[21	-9	-26]	(3	7	0)	(5	3	3)	2.004	1.118	1.79	51.9	53.7
[7	-3	19]	(3	7	0)	(8	6	-2)	2.004	1.117	1.79	36.0	45.9
[14	-6	27]	(3	7	0)	(-6	4	4)	2.004	1.112	1.80	83.6	57.8
[14	-6	15]	(3	7	0)	(6	4	-4)	2.004	1.112	1.80	60.4	75.4
[21	-9	50]	(3	7	0)	(-8	-2	3)	2.004	1.110	1.81	54.6	50.5
[7	-3	-7]	(3	7	0)	(-1	7	-4)	2.004	1.109	1.81	82.9	57.7

Winchite (370) 312 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** ***α*** **90°** ***β*** **104.54°** ***γ*** **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	*θ*°	ZA^C°
[14	-6	7]	(3	7	0)	(1	7	4)	2.004	1.109	1.81	57.0	89.2
[21	-9	28]	(3	7	0)	(7	7	-3)	2.004	1.107	1.81	42.1	69.6
[7	-3	-5]	(3	7	0)	(-1	-9	4)	2.004	1.098	1.83	68.7	63.0
[14	-6	17]	(3	7	0)	(-1	9	4)	2.004	1.098	1.83	60.7	72.2
[7	-3	14]	(3	7	0)	(-5	7	4)	2.004	1.097	1.83	84.0	56.6
[14	-6	7]	(3	7	0)	(5	7	-4)	2.004	1.097	1.83	56.1	89.2
[7	-3	12]	(3	7	0)	(3	-9	-4)	2.004	1.094	1.83	69.9	61.8
[14	-6	-3]	(3	7	0)	(3	9	-4)	2.004	1.094	1.83	59.6	73.6
[7	-3	-6]	(3	7	0)	(-3	1	-4)	2.004	1.094	1.83	72.3	60.3
[14	-6	-9]	(3	7	0)	(3	1	4)	2.004	1.094	1.83	66.5	64.4
[21	-9	-4]	(3	7	0)	(4	8	3)	2.004	1.091	1.84	40.1	74.2
[21	-9	44]	(3	7	0)	(8	4	-3)	2.004	1.085	1.85	48.7	55.0
[21	-9	-20]	(3	7	0)	(5	5	3)	2.004	1.085	1.85	46.2	58.5
[14	-6	-15]	(3	7	0)	(3	-3	4)	2.004	1.078	1.86	78.0	56.5
[7	-3	-3]	(3	7	0)	(3	3	4)	2.004	1.078	1.86	60.9	68.9
[7	-3	13]	(3	7	0)	(7	-1	-4)	2.004	1.076	1.86	71.5	59.1
[14	-6	23]	(3	7	0)	(-7	-1	4)	2.004	1.076	1.86	65.8	63.2
[7	-3	-9]	(3	7	0)	(6	8	2)	2.004	1.073	1.87	30.6	52.9
[14	-6	29]	(3	7	0)	(7	-3	-4)	2.004	1.061	1.89	77.2	55.4
[7	-3	10]	(3	7	0)	(-7	-3	4)	2.004	1.061	1.89	60.3	67.5
[35	-15	14]	(3	7	0)	(-2	0	5)	2.004	1.057	1.90	88.6	88.3
[35	-15	24]	(3	7	0)	(-3	1	5)	2.004	1.053	1.90	90.0	84.6
[35	-15	18]	(3	7	0)	(3	1	-5)	2.004	1.053	1.90	84.8	88.9
[35	-15	8]	(3	7	0)	(-2	-2	5)	2.004	1.050	1.91	86.2	84.1
[7	-3	4]	(3	7	0)	(-2	2	5)	2.004	1.050	1.91	83.5	87.4
[7	-3	-9]	(3	7	0)	(-3	5	-4)	2.004	1.048	1.91	83.6	52.9
[14	-6	-3]	(3	7	0)	(3	5	4)	2.004	1.048	1.91	55.7	73.6
[21	-9	38]	(3	7	0)	(-8	-6	3)	2.004	1.048	1.91	43.4	60.0
[14	-6	-17]	(3	7	0)	(-1	9	-4)	2.004	1.047	1.91	78.0	54.1
[7	-3	5]	(3	7	0)	(1	9	4)	2.004	1.047	1.91	52.8	83.9
[21	-9	22]	(3	7	0)	(7	9	-3)	2.004	1.045	1.92	37.7	76.0
[35	-15	4]	(3	7	0)	(1	1	-5)	2.004	1.044	1.92	87.3	81.3
[7	-3	2]	(3	7	0)	(-1	1	5)	2.004	1.044	1.92	82.1	85.5
[21	-9	-14]	(3	7	0)	(5	7	3)	2.004	1.041	1.93	41.1	64.0
[35	-15	28]	(3	7	0)	(4	0	-5)	2.004	1.040	1.93	83.5	81.9
[7	-3	6]	(3	7	0)	(-3	3	5)	2.004	1.039	1.93	84.9	80.5
[35	-15	12]	(3	7	0)	(-3	-3	5)	2.004	1.039	1.93	79.7	86.9
[14	-6	31]	(3	7	0)	(-5	9	4)	2.004	1.038	1.93	79.2	53.0
[7	-3	2]	(3	7	0)	(-5	-9	4)	2.004	1.038	1.93	51.9	85.5
[14	-6	-19]	(3	7	0)	(-2	8	-4)	2.004	1.035	1.94	84.7	51.8
[14	-6	5]	(3	7	0)	(2	8	4)	2.004	1.035	1.94	51.6	87.3
[7	-3	-12]	(3	7	0)	(6	2	3)	2.004	1.033	1.94	53.6	46.8
[35	-15	34]	(3	7	0)	(-4	2	5)	2.004	1.033	1.94	88.6	77.8
[35	-15	22]	(3	7	0)	(4	2	-5)	2.004	1.033	1.94	78.3	86.0
[7	-3	16]	(3	7	0)	(-7	5	4)	2.004	1.032	1.94	82.7	51.9
[14	-6	17]	(3	7	0)	(7	5	-4)	2.004	1.032	1.94	55.1	72.2
[35	-15	-2]	(3	7	0)	(1	3	-5)	2.004	1.031	1.94	87.6	77.3
[35	-15	16]	(3	7	0)	(1	-3	-5)	2.004	1.031	1.94	77.0	89.7

Winchite (370) 312 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** ***α*** **90°** ***β*** **104.54°** ***γ*** **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	*θ*°	ZA^C°
[35	-15	2]	(3	7	0)	(2	4	-5)	2.004	1.029	1.95	81.1	80.0
[35	-15	26]	(3	7	0)	(2	-4	-5)	2.004	1.029	1.95	78.4	83.2
[14	-6	9]	(3	7	0)	(6	8	-4)	2.004	1.023	1.96	50.9	85.7
[14	-6	-17]	(3	7	0)	(-4	2	-4)	2.004	1.019	1.97	72.1	54.1
[14	-6	-11]	(3	7	0)	(4	2	4)	2.004	1.019	1.97	61.1	61.6
[35	-15	-6]	(3	7	0)	(0	-2	5)	2.004	1.017	1.97	86.0	74.6
[35	-15	6]	(3	7	0)	(0	2	5)	2.004	1.017	1.97	75.8	82.7
[7	-3	-10]	(3	7	0)	(6	4	3)	2.004	1.014	1.98	47.9	50.8
[7	-3	8]	(3	7	0)	(4	-4	-5)	2.004	1.013	1.98	86.4	73.8
[35	-15	16]	(3	7	0)	(4	4	-5)	2.004	1.013	1.98	73.4	89.7
[35	-15	38]	(3	7	0)	(5	-1	-5)	2.004	1.013	1.98	82.3	75.1
[35	-15	32]	(3	7	0)	(5	1	-5)	2.004	1.013	1.98	77.2	79.1
[35	-15	36]	(3	7	0)	(3	-5	-5)	2.004	1.012	1.98	80.0	76.4
[35	-15	6]	(3	7	0)	(3	5	-5)	2.004	1.012	1.98	74.8	82.7
[7	-3	18]	(3	7	0)	(-9	-3	3)	2.004	1.008	1.99	50.5	47.8
[14	-6	-21]	(3	7	0)	(3	-7	4)	2.004	1.008	1.99	88.9	49.7
[7	-3	0]	(3	7	0)	(3	7	4)	2.004	1.008	1.99	51.1	78.6
[35	-15	-8]	(3	7	0)	(-1	-5	5)	2.004	1.005	1.99	82.7	73.3
[35	-15	22]	(3	7	0)	(-1	5	5)	2.004	1.005	1.99	72.2	86.0
[21	-9	32]	(3	7	0)	(8	8	-3)	2.004	1.002	2.00	38.6	65.5
[14	-6	31]	(3	7	0)	(-8	2	4)	2.004	1.001	2.00	71.4	53.0
[14	-6	25]	(3	7	0)	(8	2	-4)	2.004	1.001	2.00	60.6	60.4
[35	-15	44]	(3	7	0)	(-5	3	5)	2.004	1.000	2.00	87.3	71.2
[35	-15	26]	(3	7	0)	(5	3	-5)	2.004	1.000	2.00	72.2	83.2

Winchite (420) 372 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[1	-2	0]	(4	2	0)	(0	0	1)	2.312	5.119	0.45	76.0	86.2
[1	-2	3]	(4	2	0)	(1	-1	-1)	2.312	4.882	0.47	78.8	70.3
[1	-2	-1]	(4	2	0)	(-1	-1	1)	2.312	4.882	0.47	70.6	78.2
[1	-2	-4]	(4	2	0)	(0	-2	1)	2.312	4.451	0.52	85.1	57.7
[1	-2	4]	(4	2	0)	(0	2	1)	2.312	4.451	0.52	70.3	63.4
[1	-2	2]	(4	2	0)	(2	0	-1)	2.312	4.031	0.57	51.3	77.7
[1	-2	-3]	(4	2	0)	(1	-1	1)	2.312	4.000	0.58	57.4	63.8
[1	-2	1]	(4	2	0)	(1	1	1)	2.312	4.000	0.58	49.3	85.7
[1	-2	-5]	(4	2	0)	(-1	-3	1)	2.312	3.876	0.60	68.0	52.2
[1	-2	6]	(4	2	0)	(2	-2	-1)	2.312	3.680	0.63	62.2	51.9
[1	-2	-2]	(4	2	0)	(2	2	-1)	2.312	3.680	0.63	47.5	70.7
[1	-2	5]	(4	2	0)	(1	3	1)	2.312	3.388	0.68	49.6	57.3
[1	-2	-2]	(4	2	0)	(2	0	1)	2.312	3.121	0.74	38.7	70.7
[1	-2	5]	(4	2	0)	(-3	1	1)	2.312	3.025	0.76	42.8	57.3
[1	-2	1]	(4	2	0)	(3	1	-1)	2.312	3.025	0.76	35.0	85.7
[1	-2	-6]	(4	2	0)	(2	4	-1)	2.312	3.005	0.77	50.4	47.5
[1	-2	-6]	(4	2	0)	(-2	2	-1)	2.312	2.949	0.78	49.2	47.5
[1	-2	2]	(4	2	0)	(2	2	1)	2.312	2.949	0.78	34.8	77.7
[1	-2	-3]	(4	2	0)	(-3	-3	1)	2.312	2.733	0.85	35.2	63.8
[2	-4	3]	(4	2	0)	(-1	1	2)	2.312	2.616	0.88	88.9	81.7
[2	-4	-1]	(4	2	0)	(-1	-1	2)	2.312	2.616	0.88	86.9	82.2
[1	-2	6]	(4	2	0)	(2	4	1)	2.312	2.566	0.90	38.1	51.9
[1	-2	1]	(4	2	0)	(2	0	-2)	2.312	2.536	0.91	74.1	85.7
[1	-2	-2]	(4	2	0)	(0	-2	2)	2.312	2.462	0.94	80.6	70.7
[1	-2	2]	(4	2	0)	(0	2	2)	2.312	2.462	0.94	72.3	77.7
[2	-4	7]	(4	2	0)	(-1	3	2)	2.312	2.420	0.96	85.0	66.7
[2	-4	-5]	(4	2	0)	(-1	-3	2)	2.312	2.420	0.96	83.2	67.2
[1	-2	-5]	(4	2	0)	(3	-1	1)	2.312	2.418	0.96	35.4	52.2
[1	-2	-1]	(4	2	0)	(3	1	1)	2.312	2.418	0.96	27.8	78.2
[1	-2	4]	(4	2	0)	(4	0	-1)	2.312	2.405	0.96	30.6	63.4
[2	-4	-3]	(4	2	0)	(1	-1	2)	2.312	2.311	1.00	65.1	74.4
[2	-4	1]	(4	2	0)	(1	1	2)	2.312	2.311	1.00	60.9	89.7
[2	-4	5]	(4	2	0)	(3	-1	-2)	2.312	2.277	1.02	63.6	73.9
[2	-4	1]	(4	2	0)	(-3	-1	2)	2.312	2.277	1.02	59.4	89.7
[1	-2	3]	(4	2	0)	(3	3	1)	2.312	2.261	1.02	27.0	70.3
[1	-2	5]	(4	2	0)	(2	-4	-2)	2.312	2.210	1.05	83.5	57.3
[1	-2	-3]	(4	2	0)	(-2	-4	2)	2.312	2.210	1.05	68.7	63.8
[2	-4	-7]	(4	2	0)	(1	-3	2)	2.312	2.172	1.06	70.5	60.6
[2	-4	5]	(4	2	0)	(1	3	2)	2.312	2.172	1.06	58.8	73.9
[2	-4	9]	(4	2	0)	(3	-3	-2)	2.312	2.144	1.08	69.1	60.2
[2	-4	-3]	(4	2	0)	(3	3	-2)	2.312	2.144	1.08	57.3	74.4
[2	-4	11]	(4	2	0)	(1	-5	-2)	2.312	2.132	1.08	82.1	54.5
[2	-4	-9]	(4	2	0)	(1	5	-2)	2.312	2.132	1.08	80.5	54.8
[1	-2	-4]	(4	2	0)	(-4	-4	1)	2.312	2.122	1.09	28.4	57.7
[1	-2	-1]	(4	2	0)	(2	0	2)	2.312	2.051	1.13	52.4	78.2
[1	-2	7]	(4	2	0)	(3	5	1)	2.312	2.021	1.14	31.4	47.2
[1	-2	4]	(4	2	0)	(4	-2	-2)	2.312	1.967	1.18	56.3	63.4
[1	-2	0]	(4	2	0)	(-4	-2	2)	2.312	1.967	1.18	48.2	86.2

Winchite (420) 372 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

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[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[2	-4	-11]	(4	2	0)	(1	-5	2)	2.312	1.957	1.18	75.8	49.8
[2	-4	9]	(4	2	0)	(1	5	2)	2.312	1.957	1.18	58.5	60.2
[1	-2	-6]	(4	2	0)	(0	-6	2)	2.312	1.949	1.19	88.9	47.5
[1	-2	6]	(4	2	0)	(0	6	2)	2.312	1.949	1.19	69.5	51.9
[1	-2	7]	(4	2	0)	(5	-1	-1)	2.312	1.944	1.19	30.1	47.2
[1	-2	3]	(4	2	0)	(-5	-1	1)	2.312	1.944	1.19	23.0	70.3
[2	-4	13]	(4	2	0)	(3	-5	-2)	2.312	1.936	1.19	74.5	49.5
[2	-4	-7]	(4	2	0)	(3	5	-2)	2.312	1.936	1.19	57.2	60.6
[1	-2	-5]	(4	2	0)	(2	-4	2)	2.312	1.867	1.24	63.3	52.2
[1	-2	3]	(4	2	0)	(2	4	2)	2.312	1.867	1.24	48.6	70.3
[1	-2	-1]	(4	2	0)	(5	3	-1)	2.312	1.860	1.24	21.1	78.2
[2	-4	15]	(4	2	0)	(-1	7	2)	2.312	1.845	1.25	80.1	45.1
[2	-4	-13]	(4	2	0)	(-1	-7	2)	2.312	1.845	1.25	78.7	45.4
[1	-2	4]	(4	2	0)	(4	4	1)	2.312	1.813	1.28	22.5	63.4
[2	-4	-5]	(4	2	0)	(3	-1	2)	2.312	1.778	1.30	46.8	67.2
[2	-4	-1]	(4	2	0)	(3	1	2)	2.312	1.778	1.30	42.7	82.2
[3	-6	2]	(4	2	0)	(2	0	-3)	2.312	1.752	1.32	83.9	88.4
[3	-6	-1]	(4	2	0)	(1	1	-3)	2.312	1.749	1.32	87.3	83.5
[1	-2	1]	(4	2	0)	(-1	1	3)	2.312	1.749	1.32	84.5	85.7
[2	-4	7]	(4	2	0)	(5	-1	-2)	2.312	1.747	1.32	46.0	66.7
[2	-4	3]	(4	2	0)	(-5	-1	2)	2.312	1.747	1.32	41.9	81.7
[2	-4	13]	(4	2	0)	(1	7	2)	2.312	1.728	1.34	59.3	49.5
[1	-2	2]	(4	2	0)	(-2	2	3)	2.312	1.720	1.34	86.8	77.7
[3	-6	-2]	(4	2	0)	(2	2	-3)	2.312	1.720	1.34	81.2	80.9
[1	-2	-5]	(4	2	0)	(-5	-5	1)	2.312	1.719	1.34	24.3	52.2
[2	-4	-11]	(4	2	0)	(3	7	-2)	2.312	1.714	1.35	58.1	49.8
[2	-4	-9]	(4	2	0)	(-3	3	-2)	2.312	1.713	1.35	52.4	54.8
[2	-4	3]	(4	2	0)	(3	3	2)	2.312	1.713	1.35	40.9	81.7
[3	-6	-5]	(4	2	0)	(1	3	-3)	2.312	1.687	1.37	89.8	73.2
[3	-6	7]	(4	2	0)	(1	-3	-3)	2.312	1.687	1.37	81.9	75.2
[2	-4	11]	(4	2	0)	(5	-3	-2)	2.312	1.685	1.37	51.5	54.5
[2	-4	-1]	(4	2	0)	(-5	-3	2)	2.312	1.685	1.37	40.0	82.2
[3	-6	5]	(4	2	0)	(3	-1	-3)	2.312	1.683	1.37	75.6	80.4
[3	-6	1]	(4	2	0)	(-3	-1	3)	2.312	1.683	1.37	72.8	88.9
[3	-6	-4]	(4	2	0)	(0	-2	3)	2.312	1.676	1.38	79.0	75.7
[3	-6	4]	(4	2	0)	(0	2	3)	2.312	1.676	1.38	73.4	83.0
[1	-2	-4]	(4	2	0)	(4	6	-2)	2.312	1.674	1.38	48.5	57.7
[1	-2	-3]	(4	2	0)	(5	1	1)	2.312	1.650	1.40	20.3	63.8
[1	-2	6]	(4	2	0)	(-6	0	1)	2.312	1.639	1.41	23.2	51.9
[3	-6	10]	(4	2	0)	(2	-4	-3)	2.312	1.633	1.42	89.7	67.9
[1	-2	-2]	(4	2	0)	(-2	-4	3)	2.312	1.633	1.42	79.0	70.7
[1	-2	2]	(4	2	0)	(6	2	-1)	2.312	1.613	1.43	18.2	77.7
[1	-2	-1]	(4	2	0)	(-1	1	-3)	2.312	1.605	1.44	68.4	78.2
[3	-6	1]	(4	2	0)	(1	1	3)	2.312	1.605	1.44	65.6	88.9
[2	-4	-13]	(4	2	0)	(-3	5	-2)	2.312	1.601	1.44	58.3	45.4
[2	-4	7]	(4	2	0)	(3	5	2)	2.312	1.601	1.44	41.2	66.7
[1	-2	1]	(4	2	0)	(5	3	1)	2.312	1.597	1.45	17.6	85.7
[3	-6	-8]	(4	2	0)	(0	-4	3)	2.312	1.596	1.45	82.2	66.0

Winchite (420) 372 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** ***α*** **90°** ***β*** **104.54°** ***γ*** **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[3	-6	8]	(4	2	0)	(0	4	3)	2.312	1.596	1.45	71.5	72.7
[3	-6	4]	(4	2	0)	(4	0	-3)	2.312	1.589	1.45	65.3	83.0
[1	-2	-3]	(4	2	0)	(-1	-5	3)	2.312	1.580	1.46	87.3	63.8
[3	-6	11]	(4	2	0)	(-1	5	3)	2.312	1.580	1.46	79.8	65.6
[2	-4	15]	(4	2	0)	(-5	5	2)	2.312	1.578	1.46	57.4	45.1
[2	-4	-5]	(4	2	0)	(5	5	-2)	2.312	1.578	1.46	40.4	67.2
[3	-6	8]	(4	2	0)	(-4	2	3)	2.312	1.565	1.48	68.4	72.7
[1	-2	0]	(4	2	0)	(4	2	-3)	2.312	1.565	1.48	62.9	86.2
[3	-6	5]	(4	2	0)	(1	3	3)	2.312	1.556	1.49	63.6	80.4
[1	-2	-2]	(4	2	0)	(6	4	-1)	2.312	1.541	1.50	18.0	70.7
[1	-2	-4]	(4	2	0)	(-4	2	-2)	2.312	1.537	1.50	43.5	57.7
[1	-2	0]	(4	2	0)	(4	2	2)	2.312	1.537	1.50	35.6	86.2
[1	-2	3]	(4	2	0)	(-6	0	2)	2.312	1.534	1.51	38.1	70.3
[3	-6	13]	(4	2	0)	(3	-5	-3)	2.312	1.531	1.51	82.0	61.3
[3	-6	-7]	(4	2	0)	(-3	-5	3)	2.312	1.531	1.51	69.1	68.3
[1	-2	7]	(4	2	0)	(2	8	2)	2.312	1.517	1.52	51.4	47.2
[3	-6	14]	(4	2	0)	(2	-6	-3)	2.312	1.514	1.53	87.9	59.2
[3	-6	-10]	(4	2	0)	(2	6	-3)	2.312	1.514	1.53	77.3	61.7
[1	-2	5]	(4	2	0)	(5	5	1)	2.312	1.506	1.54	19.8	57.3
[1	-2	4]	(4	2	0)	(4	-4	-3)	2.312	1.499	1.54	72.0	63.4
[3	-6	-4]	(4	2	0)	(-4	-4	3)	2.312	1.499	1.54	61.4	75.7
[3	-6	-2]	(4	2	0)	(2	0	3)	2.312	1.492	1.55	59.0	80.9
[1	-2	-2]	(4	2	0)	(2	-2	3)	2.312	1.472	1.57	62.2	70.7
[3	-6	2]	(4	2	0)	(2	2	3)	2.312	1.472	1.57	56.7	88.4
[3	-6	-11]	(4	2	0)	(-1	5	-3)	2.312	1.471	1.57	75.3	59.6
[1	-2	3]	(4	2	0)	(1	5	3)	2.312	1.471	1.57	62.4	70.3
[2	-4	11]	(4	2	0)	(3	7	2)	2.312	1.468	1.57	43.0	54.5
[3	-6	7]	(4	2	0)	(5	-1	-3)	2.312	1.463	1.58	59.2	75.2
[1	-2	1]	(4	2	0)	(-5	-1	3)	2.312	1.463	1.58	56.4	85.7
[1	-2	7]	(4	2	0)	(6	-4	-2)	2.312	1.452	1.59	48.5	47.2
[1	-2	-1]	(4	2	0)	(-6	-4	2)	2.312	1.452	1.59	34.1	78.2
[3	-6	-13]	(4	2	0)	(1	7	-3)	2.312	1.452	1.59	85.1	55.8
[1	-2	5]	(4	2	0)	(1	-7	-3)	2.312	1.452	1.59	78.3	57.3
[2	-4	-9]	(4	2	0)	(5	7	-2)	2.312	1.451	1.59	42.1	54.8
[1	-2	-6]	(4	2	0)	(-6	-6	1)	2.312	1.439	1.61	21.7	47.5
[3	-6	11]	(4	2	0)	(5	-3	-3)	2.312	1.426	1.62	62.7	65.6
[3	-6	-1]	(4	2	0)	(-5	-3	3)	2.312	1.426	1.62	54.5	83.5
[1	-2	-6]	(4	2	0)	(6	0	1)	2.312	1.421	1.63	21.4	47.5
[3	-6	-10]	(4	2	0)	(-2	4	-3)	2.312	1.417	1.63	65.9	61.7
[1	-2	2]	(4	2	0)	(2	4	3)	2.312	1.417	1.63	55.3	77.7
[3	-6	17]	(4	2	0)	(-3	7	3)	2.312	1.413	1.64	84.9	53.6
[3	-6	-11]	(4	2	0)	(3	7	-3)	2.312	1.413	1.64	68.3	59.6
[3	-6	16]	(4	2	0)	(-4	6	3)	2.312	1.405	1.65	75.5	55.4
[3	-6	-8]	(4	2	0)	(4	6	-3)	2.312	1.405	1.65	60.7	66.0
[1	-2	5]	(4	2	0)	(-7	-1	1)	2.312	1.403	1.65	18.4	57.3
[1	-2	-2]	(4	2	0)	(6	2	1)	2.312	1.403	1.65	16.3	70.7
[1	-2	4]	(4	2	0)	(4	6	2)	2.312	1.385	1.67	35.9	63.4
[1	-2	6]	(4	2	0)	(-2	8	3)	2.312	1.383	1.67	85.8	51.9

Winchite (420) 372 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[3	-6	-14]	(4	2	0)	(2	8	-3)	2.312	1.383	1.67	76.1	54.0
[1	-2	1]	(4	2	0)	(-7	-3	1)	2.312	1.371	1.69	15.1	85.7
[2	-4	-7]	(4	2	0)	(5	-1	2)	2.312	1.369	1.69	36.5	60.6
[2	-4	-3]	(4	2	0)	(5	1	2)	2.312	1.369	1.69	32.5	74.4
[3	-6	13]	(4	2	0)	(1	7	3)	2.312	1.366	1.69	62.1	61.3
[3	-6	-5]	(4	2	0)	(-3	1	-3)	2.312	1.363	1.70	53.9	73.2
[3	-6	-1]	(4	2	0)	(3	1	3)	2.312	1.363	1.70	51.1	83.5
[3	-6	-16]	(4	2	0)	(0	8	-3)	2.312	1.360	1.70	87.8	50.6
[3	-6	16]	(4	2	0)	(0	8	3)	2.312	1.360	1.70	69.6	55.4
[1	-2	5]	(4	2	0)	(-5	5	3)	2.312	1.360	1.70	66.5	57.3
[3	-6	-5]	(4	2	0)	(5	5	-3)	2.312	1.360	1.70	53.7	73.2
[1	-2	2]	(4	2	0)	(6	4	1)	2.312	1.355	1.71	15.2	77.7
[2	-4	9]	(4	2	0)	(-7	1	2)	2.312	1.348	1.72	36.0	60.2
[2	-4	5]	(4	2	0)	(7	1	-2)	2.312	1.348	1.72	32.0	73.9
[2	-4	1]	(4	2	0)	(5	3	2)	2.312	1.339	1.73	30.4	89.7
[3	-6	-14]	(4	2	0)	(2	-6	3)	2.312	1.336	1.73	69.7	54.0
[3	-6	10]	(4	2	0)	(2	6	3)	2.312	1.336	1.73	54.9	67.9
[2	-4	15]	(4	2	0)	(3	9	2)	2.312	1.333	1.73	45.4	45.1
[3	-6	10]	(4	2	0)	(-6	2	3)	2.312	1.329	1.74	54.5	67.9
[3	-6	2]	(4	2	0)	(6	2	-3)	2.312	1.329	1.74	49.0	88.4
[2	-4	1]	(4	2	0)	(-2	0	4)	2.312	1.322	1.75	89.0	89.7
[3	-6	-17]	(4	2	0)	(1	9	-3)	2.312	1.321	1.75	83.4	49.0
[3	-6	19]	(4	2	0)	(1	-9	-3)	2.312	1.321	1.75	77.1	50.3
[2	-4	-13]	(4	2	0)	(5	9	-2)	2.312	1.320	1.75	44.6	45.4
[2	-4	13]	(4	2	0)	(-7	3	2)	2.312	1.319	1.75	41.0	49.5
[2	-4	1]	(4	2	0)	(7	3	-2)	2.312	1.319	1.75	29.9	89.7
[1	-2	-3]	(4	2	0)	(-7	-5	1)	2.312	1.311	1.76	16.0	63.8
[4	-8	-1]	(4	2	0)	(-1	-1	4)	2.312	1.309	1.77	84.4	84.2
[4	-8	3]	(4	2	0)	(1	-1	-4)	2.312	1.309	1.77	82.3	87.7
[4	-8	5]	(4	2	0)	(3	-1	-4)	2.312	1.303	1.77	82.5	83.7
[4	-8	1]	(4	2	0)	(-3	-1	4)	2.312	1.303	1.77	80.4	88.2
[3	-6	20]	(4	2	0)	(4	-8	-3)	2.312	1.299	1.78	78.8	48.7
[1	-2	-4]	(4	2	0)	(-4	-8	3)	2.312	1.299	1.78	60.7	57.7
[3	-6	14]	(4	2	0)	(6	-4	-3)	2.312	1.288	1.80	58.2	59.2
[3	-6	-2]	(4	2	0)	(-6	-4	3)	2.312	1.288	1.80	47.7	80.9
[1	-2	6]	(4	2	0)	(6	6	1)	2.312	1.284	1.80	18.0	51.9
[2	-4	5]	(4	2	0)	(5	5	2)	2.312	1.283	1.80	30.3	73.9
[4	-8	-5]	(4	2	0)	(1	3	-4)	2.312	1.282	1.80	86.6	76.3
[4	-8	7]	(4	2	0)	(-1	3	4)	2.312	1.282	1.80	80.3	79.7
[3	-6	-13]	(4	2	0)	(3	-5	3)	2.312	1.278	1.81	61.3	55.8
[3	-6	7]	(4	2	0)	(3	5	3)	2.312	1.278	1.81	48.6	75.2
[4	-8	9]	(4	2	0)	(3	-3	-4)	2.312	1.276	1.81	84.7	75.8
[4	-8	-3]	(4	2	0)	(3	3	-4)	2.312	1.276	1.81	78.4	80.2
[3	-6	19]	(4	2	0)	(5	-7	-3)	2.312	1.275	1.81	70.2	50.3
[1	-2	-3]	(4	2	0)	(-5	-7	3)	2.312	1.275	1.81	53.7	63.8
[2	-4	5]	(4	2	0)	(-2	4	4)	2.312	1.268	1.82	86.8	73.9
[2	-4	-3]	(4	2	0)	(-2	-4	4)	2.312	1.268	1.82	84.9	74.4
[1	-2	-5]	(4	2	0)	(6	8	-2)	2.312	1.268	1.82	37.4	52.2

Winchite (420) 372 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** α **90°** β **104.54°** γ **90°**

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[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[1	-2	1]	(4	2	0)	(0	2	4)	2.312	1.267	1.82	74.0	85.7
[2	-4	-3]	(4	2	0)	(7	5	-2)	2.312	1.266	1.83	29.8	74.4
[1	-2	2]	(4	2	0)	(-4	2	4)	2.312	1.256	1.84	76.4	77.7
[1	-2	0]	(4	2	0)	(4	2	-4)	2.312	1.256	1.84	72.2	86.2
[3	-6	-19]	(4	2	0)	(-1	9	-3)	2.312	1.255	1.84	81.6	46.0
[3	-6	17]	(4	2	0)	(1	9	3)	2.312	1.255	1.84	62.2	53.6
[3	-6	-4]	(4	2	0)	(4	0	3)	2.312	1.247	1.85	46.9	75.7
[1	-2	-6]	(4	2	0)	(2	-8	3)	2.312	1.244	1.86	73.3	47.5
[3	-6	14]	(4	2	0)	(2	8	3)	2.312	1.244	1.86	55.2	59.2
[1	-2	-5]	(4	2	0)	(7	1	1)	2.312	1.239	1.87	17.2	52.2
[3	-6	-8]	(4	2	0)	(-4	2	-3)	2.312	1.236	1.87	50.1	66.0
[1	-2	0]	(4	2	0)	(4	2	3)	2.312	1.236	1.87	44.6	86.2
[4	-8	-9]	(4	2	0)	(1	5	-4)	2.312	1.233	1.87	88.8	68.9
[4	-8	11]	(4	2	0)	(-1	5	4)	2.312	1.233	1.87	78.7	72.1
[4	-8	13]	(4	2	0)	(3	-5	-4)	2.312	1.228	1.88	86.9	68.5
[4	-8	-7]	(4	2	0)	(-3	-5	4)	2.312	1.228	1.88	76.8	72.5
[4	-8	-3]	(4	2	0)	(-1	1	-4)	2.312	1.225	1.89	70.2	80.2
[4	-8	1]	(4	2	0)	(1	1	4)	2.312	1.225	1.89	68.0	88.2
[1	-2	3]	(4	2	0)	(-7	1	3)	2.312	1.223	1.89	47.5	70.3
[3	-6	5]	(4	2	0)	(7	1	-3)	2.312	1.223	1.89	44.7	80.4
[1	-2	4]	(4	2	0)	(-8	-2	1)	2.312	1.220	1.89	15.0	63.4
[1	-2	-3]	(4	2	0)	(6	0	2)	2.312	1.220	1.89	30.9	63.8
[1	-2	-1]	(4	2	0)	(7	3	1)	2.312	1.216	1.90	13.6	78.2
[2	-4	9]	(4	2	0)	(5	7	2)	2.312	1.212	1.91	31.9	60.2
[4	-8	7]	(4	2	0)	(-5	1	4)	2.312	1.210	1.91	68.5	79.7
[4	-8	3]	(4	2	0)	(5	1	-4)	2.312	1.210	1.91	66.4	87.7
[3	-6	-17]	(4	2	0)	(-3	7	-3)	2.312	1.208	1.91	65.2	49.0
[3	-6	11]	(4	2	0)	(3	7	3)	2.312	1.208	1.91	48.8	65.6
[4	-8	-7]	(4	2	0)	(-1	3	-4)	2.312	1.203	1.92	72.6	72.5
[4	-8	5]	(4	2	0)	(1	3	4)	2.312	1.203	1.92	66.3	83.7
[1	-2	-4]	(4	2	0)	(-4	4	-3)	2.312	1.202	1.92	53.8	57.7
[3	-6	4]	(4	2	0)	(4	4	3)	2.312	1.202	1.92	43.4	83.0
[3	-6	13]	(4	2	0)	(7	-3	-3)	2.312	1.201	1.93	51.0	61.3
[3	-6	1]	(4	2	0)	(-7	-3	3)	2.312	1.201	1.93	42.9	88.9
[2	-4	-7]	(4	2	0)	(7	7	-2)	2.312	1.197	1.93	31.3	60.6
[1	-2	6]	(4	2	0)	(-8	2	2)	2.312	1.192	1.94	35.0	51.9
[1	-2	2]	(4	2	0)	(8	2	-2)	2.312	1.192	1.94	27.5	77.7
[4	-8	11]	(4	2	0)	(-5	3	4)	2.312	1.189	1.94	71.0	72.1
[4	-8	-1]	(4	2	0)	(5	3	-4)	2.312	1.189	1.94	64.7	84.2
[3	-6	-13]	(4	2	0)	(5	9	-3)	2.312	1.184	1.95	54.4	55.8
[1	-2	1]	(4	2	0)	(6	4	2)	2.312	1.178	1.96	26.5	85.7
[1	-2	-3]	(4	2	0)	(0	-6	4)	2.312	1.177	1.96	82.9	63.8
[1	-2	3]	(4	2	0)	(0	6	4)	2.312	1.177	1.96	71.1	70.3
[1	-2	3]	(4	2	0)	(7	5	1)	2.312	1.174	1.97	13.6	70.3
[4	-8	-13]	(4	2	0)	(-1	-7	4)	2.312	1.169	1.98	89.3	62.2
[4	-8	15]	(4	2	0)	(-1	7	4)	2.312	1.169	1.98	77.3	65.0
[1	-2	4]	(4	2	0)	(-4	6	4)	2.312	1.168	1.98	81.2	63.4
[1	-2	-2]	(4	2	0)	(4	6	-4)	2.312	1.168	1.98	69.4	70.7

Winchite (420) 372 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** ***α*** **90°** ***β*** **104.54°** ***γ*** **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	θ°	ZA^C°
[4	-8	17]	(4	2	0)	(3	-7	-4)	2.312	1.165	1.98	89.0	61.8
[4	-8	-11]	(4	2	0)	(3	7	-4)	2.312	1.165	1.98	75.6	65.5
[2	-4	-1]	(4	2	0)	(2	0	4)	2.312	1.165	1.98	62.8	82.2
[4	-8	-11]	(4	2	0)	(-1	5	-4)	2.312	1.163	1.99	75.2	65.5
[4	-8	9]	(4	2	0)	(1	5	4)	2.312	1.163	1.99	65.1	75.8
[1	-2	0]	(4	2	0)	(-8	-4	2)	2.312	1.162	1.99	26.1	86.2
[3	-6	17]	(4	2	0)	(7	-5	-3)	2.312	1.160	1.99	54.8	53.6
[1	-2	-1]	(4	2	0)	(-7	-5	3)	2.312	1.160	1.99	42.2	78.2
[3	-6	22]	(4	2	0)	(6	-8	-3)	2.312	1.154	2.00	66.0	45.8
[3	-6	-10]	(4	2	0)	(-6	-8	3)	2.312	1.154	2.00	48.0	61.7
[3	-6	-16]	(4	2	0)	(4	-6	3)	2.312	1.152	2.01	57.8	50.6
[3	-6	8]	(4	2	0)	(4	6	3)	2.312	1.152	2.01	43.2	72.7
[4	-8	15]	(4	2	0)	(5	-5	-4)	2.312	1.150	2.01	73.6	65.0
[4	-8	-5]	(4	2	0)	(-5	-5	4)	2.312	1.150	2.01	63.5	76.3
[2	-4	3]	(4	2	0)	(6	0	-4)	2.312	1.147	2.01	61.3	81.7
[2	-4	9]	(4	2	0)	(-2	8	4)	2.312	1.140	2.03	83.4	60.2
[2	-4	-7]	(4	2	0)	(-2	-8	4)	2.312	1.140	2.03	81.7	60.6
[1	-2	-4]	(4	2	0)	(8	6	-1)	2.312	1.140	2.03	14.8	57.7
[3	-6	-7]	(4	2	0)	(-5	1	-3)	2.312	1.136	2.04	43.9	68.3
[1	-2	-1]	(4	2	0)	(5	1	3)	2.312	1.136	2.04	41.1	78.2
[2	-4	13]	(4	2	0)	(5	9	2)	2.312	1.133	2.04	34.3	49.5
[2	-4	-5]	(4	2	0)	(2	-4	4)	2.312	1.128	2.05	67.8	67.2
[2	-4	3]	(4	2	0)	(2	4	4)	2.312	1.128	2.05	59.6	81.7
[2	-4	-11]	(4	2	0)	(7	9	-2)	2.312	1.121	2.06	33.7	49.8
[1	-2	7]	(4	2	0)	(7	7	1)	2.312	1.119	2.07	16.8	47.2
[3	-6	8]	(4	2	0)	(8	0	-3)	2.312	1.118	2.07	41.6	72.7
[3	-6	-11]	(4	2	0)	(5	-3	3)	2.312	1.118	2.07	47.3	59.6
[3	-6	1]	(4	2	0)	(5	3	3)	2.312	1.118	2.07	39.4	88.9
[1	-2	-2]	(4	2	0)	(-8	-6	2)	2.312	1.117	2.07	26.6	70.7
[2	-4	7]	(4	2	0)	(6	-4	-4)	2.312	1.112	2.08	66.3	66.7
[2	-4	-1]	(4	2	0)	(-6	-4	4)	2.312	1.112	2.08	58.1	82.2
[1	-2	4]	(4	2	0)	(8	-2	-3)	2.312	1.110	2.08	44.7	63.4
[3	-6	4]	(4	2	0)	(-8	-2	3)	2.312	1.110	2.08	39.4	83.0
[4	-8	-15]	(4	2	0)	(1	-7	4)	2.312	1.109	2.09	77.7	59.1
[4	-8	13]	(4	2	0)	(1	7	4)	2.312	1.109	2.09	64.4	68.5
[1	-2	7]	(4	2	0)	(7	-7	-3)	2.312	1.107	2.09	58.8	47.2
[3	-6	-7]	(4	2	0)	(-7	-7	3)	2.312	1.107	2.09	42.5	68.3
[4	-8	-17]	(4	2	0)	(1	9	-4)	2.312	1.098	2.11	87.5	56.2
[4	-8	19]	(4	2	0)	(-1	9	4)	2.312	1.098	2.11	76.3	58.7
[4	-8	19]	(4	2	0)	(-5	7	4)	2.312	1.097	2.11	76.2	58.7
[4	-8	-9]	(4	2	0)	(5	7	-4)	2.312	1.097	2.11	62.8	68.9
[4	-8	21]	(4	2	0)	(3	-9	-4)	2.312	1.094	2.11	89.2	55.9
[4	-8	-15]	(4	2	0)	(3	9	-4)	2.312	1.094	2.11	74.6	59.1
[1	-2	-4]	(4	2	0)	(8	2	1)	2.312	1.094	2.11	14.2	57.7
[4	-8	-5]	(4	2	0)	(3	-1	4)	2.312	1.094	2.11	58.4	76.3
[4	-8	-1]	(4	2	0)	(3	1	4)	2.312	1.094	2.11	56.3	84.2
[2	-4	-9]	(4	2	0)	(7	-1	2)	2.312	1.092	2.12	30.3	54.8
[2	-4	-5]	(4	2	0)	(7	1	2)	2.312	1.092	2.12	26.6	67.2

Winchite (420) 372 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** ***α*** **90°** ***β*** **104.54°** ***γ*** **90°**

Space Group C2/m permits only *(h+k)=2n*

[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	*θ*°	ZA^C°
[1	-2	7]	(4	2	0)	(9	1	-1)	2.312	1.092	2.12	16.3	47.2
[1	-2	4]	(4	2	0)	(4	8	3)	2.312	1.091	2.12	43.8	63.4
[3	-6	16]	(4	2	0)	(8	-4	-3)	2.312	1.085	2.13	48.4	55.4
[1	-2	0]	(4	2	0)	(-8	-4	3)	2.312	1.085	2.13	38.1	86.2
[1	-2	-5]	(4	2	0)	(5	-5	3)	2.312	1.085	2.13	51.2	52.2
[3	-6	5]	(4	2	0)	(5	5	3)	2.312	1.085	2.13	38.6	80.4
[4	-8	-9]	(4	2	0)	(3	-3	4)	2.312	1.078	2.14	60.9	68.9
[4	-8	3]	(4	2	0)	(3	3	4)	2.312	1.078	2.14	54.7	87.7
[2	-4	11]	(4	2	0)	(9	-1	-2)	2.312	1.078	2.15	30.0	54.5
[2	-4	7]	(4	2	0)	(-9	-1	2)	2.312	1.078	2.15	26.3	66.7
[2	-4	-13]	(4	2	0)	(7	-3	2)	2.312	1.077	2.15	34.9	45.4
[2	-4	-1]	(4	2	0)	(7	3	2)	2.312	1.077	2.15	24.3	82.2
[1	-2	3]	(4	2	0)	(9	3	-1)	2.312	1.076	2.15	12.5	70.3
[4	-8	9]	(4	2	0)	(-7	1	4)	2.312	1.076	2.15	57.1	75.8
[4	-8	5]	(4	2	0)	(7	1	-4)	2.312	1.076	2.15	54.9	83.7
[1	-2	5]	(4	2	0)	(6	8	2)	2.312	1.073	2.15	28.8	57.3
[2	-4	15]	(4	2	0)	(9	-3	-2)	2.312	1.063	2.18	34.6	45.1
[2	-4	3]	(4	2	0)	(-9	-3	2)	2.312	1.063	2.18	24.0	81.7
[4	-8	13]	(4	2	0)	(-7	3	4)	2.312	1.061	2.18	59.6	68.5
[4	-8	1]	(4	2	0)	(7	3	-4)	2.312	1.061	2.18	53.4	88.2
[5	-10	2]	(4	2	0)	(2	0	-5)	2.312	1.057	2.19	87.9	89.4
[1	-2	1]	(4	2	0)	(3	-1	-5)	2.312	1.053	2.20	86.8	85.7
[5	-10	1]	(4	2	0)	(-3	-1	5)	2.312	1.053	2.20	85.1	87.8
[5	-10	-2]	(4	2	0)	(-2	-2	5)	2.312	1.050	2.20	89.6	83.0
[5	-10	6]	(4	2	0)	(2	-2	-5)	2.312	1.050	2.20	86.2	84.1
[4	-8	-13]	(4	2	0)	(3	-5	4)	2.312	1.048	2.21	63.7	62.2
[4	-8	7]	(4	2	0)	(3	5	4)	2.312	1.048	2.21	53.7	79.7
[3	-6	20]	(4	2	0)	(8	-6	-3)	2.312	1.048	2.21	52.3	48.7
[3	-6	-4]	(4	2	0)	(-8	-6	3)	2.312	1.048	2.21	37.8	75.7
[4	-8	-19]	(4	2	0)	(1	-9	4)	2.312	1.047	2.21	80.1	53.5
[4	-8	17]	(4	2	0)	(1	9	4)	2.312	1.047	2.21	64.0	61.8
[2	-4	3]	(4	2	0)	(7	5	2)	2.312	1.047	2.21	23.6	81.7
[1	-2	-1]	(4	2	0)	(9	5	-1)	2.312	1.047	2.21	11.7	78.2
[3	-6	-11]	(4	2	0)	(-7	-9	3)	2.312	1.045	2.21	43.4	59.6
[5	-10	-1]	(4	2	0)	(-1	-1	5)	2.312	1.044	2.21	82.7	84.6
[5	-10	3]	(4	2	0)	(-1	1	5)	2.312	1.044	2.21	81.0	88.9
[3	-6	-19]	(4	2	0)	(-5	7	-3)	2.312	1.041	2.22	55.1	46.0
[1	-2	3]	(4	2	0)	(5	7	3)	2.312	1.041	2.22	38.9	70.3
[5	-10	9]	(4	2	0)	(-3	3	5)	2.312	1.039	2.23	88.5	79.3
[5	-10	-3]	(4	2	0)	(3	3	-5)	2.312	1.039	2.23	83.5	81.4
[4	-8	23]	(4	2	0)	(5	-9	-4)	2.312	1.038	2.23	78.7	53.2
[4	-8	-13]	(4	2	0)	(-5	-9	4)	2.312	1.038	2.23	62.5	62.2
[2	-4	-9]	(4	2	0)	(2	-8	4)	2.312	1.035	2.23	73.2	54.8
[2	-4	7]	(4	2	0)	(2	8	4)	2.312	1.035	2.23	58.4	66.7
[1	-2	4]	(4	2	0)	(8	6	1)	2.312	1.034	2.24	12.6	63.4
[2	-4	-1]	(4	2	0)	(-9	-5	2)	2.312	1.034	2.24	23.3	82.2
[3	-6	-10]	(4	2	0)	(6	-2	3)	2.312	1.033	2.24	41.8	61.7
[3	-6	-2]	(4	2	0)	(6	2	3)	2.312	1.033	2.24	36.4	80.9

Winchite (420) 372 Zone Axes

a **9.885Å** ***b*** **18.032Å** ***c*** **5.288Å** ***α*** **90°** ***β*** **104.54°** ***γ*** **90°**

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[U	V	W]	(h	k	0)	(h	k	l)	*d* (hk0)	*d* (hkl)	*d* Ratio	*θ*°	ZA^C°
[5	-10	8]	(4	2	0)	(4	-2	-5)	2.312	1.033	2.24	81.7	80.9
[1	-2	0]	(4	2	0)	(-4	-2	5)	2.312	1.033	2.24	78.3	86.2
[4	-8	17]	(4	2	0)	(7	-5	-4)	2.312	1.032	2.24	62.4	61.8
[4	-8	-3]	(4	2	0)	(-7	-5	4)	2.312	1.032	2.24	52.4	80.2
[1	-2	-1]	(4	2	0)	(-1	-3	5)	2.312	1.031	2.24	84.5	78.2
[5	-10	7]	(4	2	0)	(1	-3	-5)	2.312	1.031	2.24	79.4	82.5
[5	-10	-6]	(4	2	0)	(2	4	-5)	2.312	1.029	2.25	88.7	76.7
[1	-2	2]	(4	2	0)	(-2	4	5)	2.312	1.029	2.25	84.6	77.7
[2	-4	-5]	(4	2	0)	(6	8	-4)	2.312	1.023	2.26	57.1	67.2
[3	-6	11]	(4	2	0)	(9	-1	-3)	2.312	1.021	2.26	39.5	65.6
[3	-6	7]	(4	2	0)	(-9	-1	3)	2.312	1.021	2.26	36.8	75.2
[1	-2	-2]	(4	2	0)	(4	-2	4)	2.312	1.019	2.27	54.7	70.7
[1	-2	0]	(4	2	0)	(4	2	4)	2.312	1.019	2.27	50.6	86.2
[5	-10	-4]	(4	2	0)	(0	-2	5)	2.312	1.017	2.27	77.7	79.8
[5	-10	4]	(4	2	0)	(0	2	5)	2.312	1.017	2.27	74.3	87.3
[3	-6	-14]	(4	2	0)	(6	-4	3)	2.312	1.014	2.28	45.3	54.0
[3	-6	2]	(4	2	0)	(6	4	3)	2.312	1.014	2.28	35.1	88.4
[5	-10	12]	(4	2	0)	(-4	4	5)	2.312	1.013	2.28	83.5	74.7
[5	-10	-4]	(4	2	0)	(4	4	-5)	2.312	1.013	2.28	76.8	79.8
[5	-10	7]	(4	2	0)	(-5	1	5)	2.312	1.013	2.28	75.0	82.5
[5	-10	3]	(4	2	0)	(5	1	-5)	2.312	1.013	2.28	73.3	88.9
[5	-10	13]	(4	2	0)	(3	-5	-5)	2.312	1.012	2.28	89.8	73.2
[5	-10	-7]	(4	2	0)	(3	5	-5)	2.312	1.012	2.28	82.0	75.2
[1	-2	5]	(4	2	0)	(-9	3	3)	2.312	1.008	2.29	42.8	57.3
[1	-2	1]	(4	2	0)	(9	3	-3)	2.312	1.008	2.29	35.0	85.7
[4	-8	-17]	(4	2	0)	(3	-7	4)	2.312	1.008	2.29	66.6	56.2
[4	-8	11]	(4	2	0)	(3	7	4)	2.312	1.008	2.29	53.3	72.1
[2	-4	7]	(4	2	0)	(7	7	2)	2.312	1.007	2.30	24.5	66.7
[1	-2	-5]	(4	2	0)	(9	7	-1)	2.312	1.007	2.30	13.9	52.2
[5	-10	-9]	(4	2	0)	(1	5	-5)	2.312	1.005	2.30	86.3	72.2
[5	-10	11]	(4	2	0)	(-1	5	5)	2.312	1.005	2.30	78.0	76.2
[3	-6	-8]	(4	2	0)	(-8	-8	3)	2.312	1.002	2.31	38.4	66.0
[1	-2	3]	(4	2	0)	(8	-2	-4)	2.312	1.001	2.31	53.6	70.3
[1	-2	1]	(4	2	0)	(-8	-2	4)	2.312	1.001	2.31	49.4	85.7
[5	-10	11]	(4	2	0)	(5	-3	-5)	2.312	1.000	2.31	76.9	76.2
[5	-10	-1]	(4	2	0)	(-5	-3	5)	2.312	1.000	2.31	71.8	84.6