MASTER

X-RAY FLUORESCENCE TABLES: MICA-80 CRYSTAL

W. P. Amsbury
W. W. Lee
J. H. Rowan
G. E. Walden

Y-12 PLANT
Oak Ridge, Tennessee

**UNION
CARBIDE**

UNION CARBIDE CORPORATION
NUCLEAR DIVISION

Operating the

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TID-4500 (29th Edition)

UNION CARBIDE CORPORATION
Nuclear Division

Y-12 PLANT

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W. P. Amsbury
W. W. Lee
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Oak Ridge, Tennessee
April 24, 1964

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ABSTRACT

A critical compilation of standard reference tables of X-ray fluorescence lines has been published in convenient form for experimental use. This section of the report contains tables calculated for a mica-80 crystal.

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INTRODUCTION

Standard X-ray fluorescence tables contain rounding errors and a few disjointed entries. Furthermore, their format is not the most convenient one in some experimental situations, leaving to the experimenter the task of hunting and comparing before coming to a definite conclusion about the composition of his sample. For a specific analyzing crystal, the experimenter needs a table that is arranged according to element, order, and line; and an angular tabulation. This section of the report provides these tables for the mica-80 crystal.

Wavelength data from three authors: Müller,⁽¹⁾ Powers,⁽²⁾ and Liebhafsky,⁽³⁾ were punched into cards, compared, sorted, and sifted with a computer, and a "best" value determined from the acceptable values. Goniometer angles were generated for specific analyzing crystals and the resulting angles were printed in two tables. One of the tables is arranged by element, order, and line and the other by angle magnitude. Tables may be generated for any crystal with known spacing.

The tables have been compiled for all emissions having 2θ reflections less than 150 degrees. Reflections above $150^\circ 2\theta$ are not considered as practical since the reflection efficiency becomes increasingly poorer with increasing angles. Few instruments are capable of even operating in this range. The logical approach when the desired emission falls at these high angles would be the selection of an analyzing crystal with more appropriate d-spacing. Orders from 1 through 5 for elements from sodium (11) through californium (98) have been included in the tables. Data where available for the more prominent M spectra have also been included.

Relative intensity data have not been included as a part of this report since such data are readily available to those who desire it; however, in some cases there are large variations in the relative values that are assigned to a given energy level. It is felt that the data of Powers⁽²⁾ are satisfactory for most uses so to include such data in this report would only consume unnecessary space.

This report is being published in several sections. Each section contains both tables for a specific analyzing crystal. The first section⁽⁴⁾ lists and explains the operation of the computer programs which have generated the tables. The reader is invited to refer to this section of the report for further information.

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SUMMARY

Tables arranged by element, order, and line, and also angular tabulations for a specific analyzing crystal, were derived from a critical amalgamation of three standard reference tables of X-ray fluorescence lines. The format of these tables was designed to increase the efficiency of the experimenter by decreasing the time spent in table searches. This section of the report contains both tables for a mica-80 crystal.

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REFERENCES

- (1) Müller, Dr. Phil. E. A. W., Wellenlängen - und Winkeltafeln zur Röntgenspektralanalyse, Siemens and Halske Aktiengesellschaft, Karlsruhe, West Germany (1960).
- (2) Powers, Maurice C., X-Ray Fluorescent Spectrometer Conversion Tables for Topaz, LiF, NaCl, EDDT, and ADP Crystals, Phillips Electronics, Inc, Instruments Division, Mount Vernon, New York (1957).
- (3) Liebhafsky, H. A., Pfeiffer, H. A., Winslow, E. W., Zeman, P. D., X-Ray Absorption and Emission in Analytical Chemistry, John Wiley and Sons, Inc, New York (1960).
- (4) Amsbury, W. P., Lee, W. W., Rowan, J. H., Walden, G. E., X-Ray Fluorescence Tables: Program Description, Y-1470-A, Union Carbide Corporation, Nuclear Division, Y-12 Plant, Oak Ridge, Tennessee (to be issued).

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TABLE 1
GONIOMETER ANGLES ARRANGED BY ELEMENT, LINE, AND ORDER

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11 NA		MICA CRYSTAL, D# 9.980 ANGSTROMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	73.26	73.26	71.18							
2										
3										
4										
5										
1	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
2										
3										
4										
5										
1	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
2										
3										
4										
5										
1	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
2										
3										
4										
5										
12 MG										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	59.40	59.40	57.22 146.56							
2										
3										
4										
5										
1	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
2										
3										
4										
5										
1	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
2										
3										
4										
5										
1	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
2										
3										
4										
5										

13	AL	MICA CRYSTAL, D# 9.980 ANGSTRCMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	49.38	49.40	47.14							
2	113.33	113.37	106.20							
3										
4										
5										
1	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
2										
3										
4										
5										
1	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
2										
3										
4										
5										
1	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
2										
3										
4										
5										
14	SI									
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	41.83	41.85	39.64							
2	91.11	91.16	85.40							
3										
4										
5										
1	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
2										
3										
4										
5										
1	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
2										
3										
4										
5										
1	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
2										
3										
4										
5										

15 P		MICA CRYSTAL, D# 9.980 ANGSTROMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	35.92	35.92	33.81							
2	76.16	76.16	71.12							
3	135.37	135.37	121.46							
4										
5										
1	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
2										
3										
4										
5										
1	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
2										
3										
4										
5										
1	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
2										
3										
4										
5										
16 S										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	31.23	31.24	29.20							
2	65.13	65.17	60.56							
3	107.69	107.78	98.28							
4										
5										
1	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
2										
3										
4										
5										
1	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
2										
3										
4										
5										
1	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
2										
3										
4										
5										

17 CL		MICA CRYSTAL, D# 9.980 ANGSTRCMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	27.40	27.42	25.49							
2	56.56	56.58	52.36							
3	90.57	90.62	82.87							
4	142.70	142.85	123.86							
5										
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1										
2										
3										
4										
5										
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1										
2										
3										
4										
5										
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										
18 A										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	24.25	24.26	22.44							
2	49.67	49.71	45.81							
3	78.11	78.18	71.43							
4	114.30	114.42	102.22							
5										
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1										
2										
3										
4										
5										
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1										
2										
3										
4										
5										
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

19 K MICA CRYSTAL, D# 9.980 ANGSTROMS										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	21.61	21.63	19.93				19.85			
2	44.53	44.58	40.50				40.34			
3	68.43	68.51	62.55				62.29			
4	97.13	97.27	87.61				87.19			
5	139.15	139.48	119.82				119.08			
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1										
2										
3										
4										
5										
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1										
2										
3										
4										
5										
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										
20 CA										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	19.37	19.39	17.81				17.72			
2	39.32	39.37	36.07				35.88			
3	60.62	60.70	55.35				55.04			
4	84.59	84.71	76.52				76.05			
5	114.53	114.74	101.44				100.72			
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1										
2										
3										
4										
5										
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1										
2										
3										
4										
5										
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

23 V MICA CRYSTAL, D# 9.980 ANGSTROMS										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	14.41	14.43	13.14		13.14		13.05			
2	29.05	29.10	26.46		26.46		26.28			
3	44.20	44.27	40.15		40.15		39.88			
4	60.21	60.32	54.48		54.48		54.09			
5	77.66	77.81	69.80		69.80		69.28			
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1										
2										
3										
4										
5										
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1										
2										
3										
4										
5										
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										
24 CR										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	13.18	13.20	11.99		11.99		11.91			
2	26.53	26.58	24.12		24.12		23.95			
3	40.26	40.34	36.53		36.53		36.27			
4	54.63	54.74	49.40		49.40		49.04			
5	70.01	70.15	62.97		62.97		62.50			
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1										
2										
3										
4										
5										
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1										
2										
3										
4										
5										
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

25	MN	MICA CRYSTAL, D# 9.980 ANGSTRCMS									
	ORDER	KAI	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
	1	12.39	12.11	10.98				10.91			
	2	24.32	24.36	22.07				21.91			
	3	36.83	36.91	33.37				33.13			
	4	49.83	49.93	45.01				44.69			
	5	63.55	63.68	57.17				56.74			
		LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
	1										
	2										
	3										
	4										
	5										
		LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
	1										
	2										
	3										
	4										
	5										
		KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
	1										
	2										
	3										
	4										
	5										
26	FE										
	ORDER	KAI	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
	1	11.13	11.16	10.10				10.03			
	2	22.37	22.42	20.28				20.13			
	3	33.83	33.91	30.62				30.39			
	4	45.66	45.76	41.23				40.91			
	5	58.02	58.15	52.22				51.81			
		LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
	1										
	2										
	3										
	4										
	5										
		LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
	1										
	2										
	3										
	4										
	5										
		KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
	1										
	2										
	3										
	4										
	5										

27 CO		MICA CRYSTAL, D# 9.980 ANGSTROMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	10.28	10.31	9.32				9.25			
2	20.65	20.70	18.70				18.56			
3	31.20	31.27	28.20				27.99			
4	42.02	42.12	37.91				37.62			
5	53.25	53.38	47.92				47.54			
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1										
2										
3										
4										
5										
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1										
2										
3										
4										
5										
	KB0	LB15	LB17	LB17	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										
28 NI										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	9.53	9.55	8.62	8.56			8.56			
2	19.13	19.17	17.29	17.16			17.16			
3	28.86	28.93	26.06	25.86			25.86			
4	38.81	38.91	34.99	34.72			34.72			
5	49.08	49.21	44.14	43.80			43.80			
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1										
2										
3										
4										
5										
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1										
2										
3										
4										
5										
	KB0	LB15	LB17	LB17	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

31 GA MICA CRYSTAL, D# 9.980 ANGSTROMS										
ORDER	KAI	KA2	KB1	KB2	KB3	KB4	KB5	LAI	LA2	LB1
1	7.70	7.72	6.94	6.87	6.94		6.88	69.05		67.20
2	15.43	15.48	13.90	13.77	13.90		13.78			
3	23.24	23.31	20.92	20.71	20.92		20.73			
4	31.15	31.25	28.02	27.74	28.02		27.76			
5	39.23	39.25	35.23	34.87	35.23		34.90			
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1										
2										
3										
4										
5										
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1										
2										
3										
4										
5										
	KB7	LB15	LB17	LB17	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										
32 GE										
ORDER	KAI	KA2	KB1	KB2	KB3	KB4	KB5	LAI	LA2	LB1
1	7.20	7.23	6.49	6.42	6.49		6.43	63.18	63.18	61.42
2	14.44	14.48	12.99	12.85	12.99		12.88			
3	21.73	21.80	19.54	19.33	19.54		19.36			
4	29.11	29.20	26.15	25.87	26.15		25.92			
5	36.62	36.74	32.86	32.50	32.86		32.56			
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1										
2										
3										
4										
5										
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1					71.12	73.51				
2										
3										
4										
5										
	KB7	LB15	LB17	LB17	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

33 AS		MICA CRYSTAL, D# 9.980 ANGSTROMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	6.76	6.78	6.07	6.00	6.08		6.03	57.96	57.96	56.28
2	13.53	13.58	12.16	12.02	12.17		12.07			141.22
3	20.36	20.43	18.28	18.07	18.30		18.14			
4	27.26	27.36	24.46	24.18	24.48		24.27			
5	34.27	34.39	30.71	30.35	30.74		30.47			
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1		53.15	53.15							
2		126.96	126.96							
3										
4										
5										
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1					65.06	67.36				
2										
3										
4										
5										
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										
34 SE										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	6.35	6.37	5.70	5.63	5.70		5.65	53.54	53.54	51.91
2	12.71	12.76	11.41	11.27	11.42		11.32	128.53	128.53	122.17
3	19.12	19.19	17.15	16.94	17.17		17.01			
4	25.59	25.68	22.93	22.65	22.96		22.75			
5	32.14	32.26	28.78	28.42	28.81		28.54			
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1										
2										
3										
4										
5										
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1					59.86	62.09				
2										
3										
4										
5										
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

35 BR		MICA CRYSTAL, D# 9.980 ANGSTROMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	5.97	6.00	5.36	5.29	5.36		5.31	49.62	49.62	48.04
2	11.96	12.01	10.73	10.59	10.73		10.64	114.11	114.11	109.00
3	17.99	18.06	16.12	15.91	16.12		15.98			
4	24.06	24.15	21.55	21.27	21.55		21.37			
5	30.20	30.32	27.03	26.68	27.03		26.80			
1	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
2										
3										
4										
5										
1	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
2					55.24	57.39				
3					136.02	147.57				
4										
5										
1	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
2										
3										
4										
5										
36 KR										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	5.63	5.65	5.04	4.97	5.05	4.97	5.00	46.07	46.07	44.56
2	11.27	11.32	10.09	9.96	10.11	9.96	10.01	103.01	103.01	98.63
3	16.94	17.01	15.17	14.96	15.18	14.96	15.04			
4	22.65	22.75	20.27	19.99	20.29	19.99	20.10			
5	28.42	28.54	25.41	25.06	25.44	25.06	25.21			
1	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
2										
3										
4										
5										
1	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
2										
3										
4										
5										
1	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
2										
3										
4										
5										

39 Y		MICA CRYSTAL, D# 9.980 ANGSTROMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	4.76	4.78	4.26	4.19	4.26	4.17	4.21	37.70	37.74	36.27
2	9.53	9.58	8.52	8.38	8.52	8.35	8.44	80.51	80.62	76.99
3	14.32	14.38	12.79	12.58	12.79	12.55	12.67			138.03
4	19.13	19.22	17.08	16.80	17.08	16.75	16.92			
5	23.97	24.09	21.39	21.04	21.39	20.99	21.19			
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1		34.89	35.10		35.55					30.70
2		73.57	74.17		75.27					63.92
3		128.12	129.51		132.68					105.13
4										
5										
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	30.70		34.24		41.31	43.25				
2	63.92		72.13		89.73	94.97				
3	105.13		124.02							
4										
5										
	KB3	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										
40 ZR										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	4.51	4.54	4.03	3.96	4.03		4.00	35.41	35.46	34.00
2	9.03	9.08	8.07	7.93	8.07		8.00	74.92	75.04	71.57
3	13.57	13.64	12.11	11.91	12.11		12.01	131.66	131.99	122.60
4	18.13	18.22	16.17	15.90	16.17		16.04			
5	22.71	22.83	20.26	19.91	20.26		20.08			
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	32.50	32.78	32.99		33.25				31.30	28.74
2	68.07	68.73	69.21		69.80				65.30	59.51
3	114.19	115.70	116.84		118.23				108.04	96.22
4										
5										
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	28.74		31.97		38.66	40.56				
2	59.51		66.84		82.91	87.77				
3	96.22		111.42							
4										
5										
	KB3	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

41 NB		MICA CRYSTAL, D# 9.980 ANGSTRCMS									
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1	
1	4.28	4.31	3.82	3.76	3.82		3.79	33.33	33.38	31.94	
2	8.57	8.62	7.65	7.51	7.65		7.58	70.00	70.11	66.78	
3	12.88	12.94	11.49	11.28	11.49		11.39	118.71	118.98	111.27	
4	17.25	17.29	15.34	15.06	15.34		15.20				
5	21.54	21.66	19.21	18.86	19.21		19.03				
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2	
1	30.43	30.86	31.07		31.16				29.23	26.97	
2	63.32	64.29	64.77		64.98				60.61	55.59	
3	103.86	105.90	106.90		107.37				98.39	88.77	
4										137.71	
5											
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY	
1	26.97		29.91		36.26	38.11					
2	55.59		62.15		76.98	81.54					
3	88.77		101.46		137.98						
4	137.71										
5											
	KB3	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT	
1											
2											
3											
4											
5											
42 MO											
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1	
1	4.17	4.09	3.63	3.57	3.63	3.56	3.60	31.43	31.48	30.07	
2	8.15	8.19	7.26	7.14	7.27	7.12	7.20	65.60	65.71	62.50	
3	12.23	12.30	10.90	10.71	10.92	10.69	10.81	108.69	108.92	102.18	
4	16.34	16.43	14.55	14.30	14.58	14.27	14.44				
5	20.46	20.58	18.22	17.90	18.25	17.87	18.07				
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2	
1	28.56	29.09	29.31		29.31				27.39	25.35	
2	59.11	60.31	60.78		60.78				56.53	52.06	
3	95.45	97.78	98.73		98.73				90.52	82.34	
4									142.56	122.75	
5											
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY	
1	25.35		28.05		34.07	35.89					
2	52.36		57.98		71.73	76.08					
3	82.34		93.27		123.00	135.14					
4	122.75										
5											
	KB3	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT	
1											
2											
3											
4											
5											

43	TC	MICA CRYSTAL, D# 9.980 ANGSTROMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	3.86	3.88	3.46	3.39	3.45	3.39		29.69	29.74	28.33
2	7.73	7.77	6.92	6.78	6.90	6.78		61.65	61.77	58.60
3	11.61	11.66	10.38	10.18	10.37	10.18		100.46	100.71	94.46
4	15.50	15.57	13.86	13.58	13.84	13.58				
5	19.41	19.50	17.35	17.00	17.32	17.00				
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	26.86								25.71	
2	55.36								52.82	
3	88.34								83.72	
4	136.58								125.65	
5										
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1										
2										
3										
4										
5										
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										
44	RU									
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	3.69	3.72	3.28	3.23	3.29		3.26	28.10	28.14	26.77
2	7.39	7.43	6.57	6.46	6.58		6.53	58.10	58.15	55.15
3	11.09	11.16	9.86	9.69	9.88		9.79	93.50	93.67	87.96
4	14.81	14.90	13.16	12.93	13.19		13.07			135.59
5	18.54	18.65	16.48	16.19	16.51		16.36			
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	25.31	25.98	26.19		25.98				24.19	22.52
2	51.96	53.44	53.90		53.44				49.55	45.97
3	82.16	84.81	85.66		84.81				77.85	71.71
4	122.36	128.11	130.03		128.11				113.86	102.70
5										
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	22.52		24.81		30.23	32.01				
2	45.97		50.88		62.87	66.93				
3	71.71		80.23		102.95	111.60				
4	102.70		118.44							
5										
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

47 AG MICA CRYSTAL, D# 9.980 ANGSTROMS										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	3.21	3.24	2.85	2.80	2.86		2.83	24.02	24.08	22.73
2	6.42	6.48	5.71	5.59	5.72		5.66	49.19	49.31	46.43
3	9.64	9.73	8.57	8.40	8.59		8.50	77.27	77.47	72.50
4	12.86	12.98	11.43	11.20	11.46		11.34	112.71	113.08	104.07
5	16.10	16.24	14.30	14.01	14.33		14.19			
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	21.38	22.14	22.36		22.00		20.81	20.85	20.23	19.07
2	43.56	45.17	45.63		44.86		42.35	42.42	41.34	38.69
3	67.64	70.35	71.14		69.83		65.62	65.74	63.94	59.59
4	95.82	100.37	101.71		99.48		92.51	92.71	89.82	82.99
5	136.13	147.55			145.07		129.13	129.53	123.89	111.82
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	19.07		20.87		25.58	27.28				
2	38.69		42.49		52.55	56.28				
3	59.59		65.84		83.22	90.66				
4	82.99		92.88		124.59	141.22				
5	111.82		129.87							
	KBJ	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										
48 CD										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	3.07	3.09	2.73	2.67	2.73			22.86	22.92	21.59
2	6.15	6.19	5.46	5.34	5.47			46.71	46.82	43.99
3	9.22	9.29	8.19	8.02	8.21			72.97	73.16	68.36
4	12.31	12.40	10.92	10.69	10.95			104.89	105.23	97.02
5	15.40	15.52	13.67	13.38	13.70					138.90
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	20.28	21.04	21.26		20.86		19.79	19.83	19.24	18.09
2	41.23	42.84	43.30		42.46		40.20	40.29	39.06	36.65
3	63.76	66.44	67.20		65.80		62.07	62.21	60.19	56.28
4	89.53	93.85	95.10		92.81		86.85	87.07	83.91	77.93
5	123.35	131.87	134.54		129.73		118.46	118.85	113.37	103.64
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	18.08		19.76		24.25	25.94				
2	36.64		40.14		49.69	53.35				
3	56.26		61.97		78.13	84.65				
4	77.90		86.69		114.34	127.74				
5	103.59		118.18							
	KBJ	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

49 IN		MICA CRYSTAL, D# 9.980 ANGSTROMS									
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1	
1	2.94	2.97	2.61	2.55	2.61		2.59	21.79	21.84	20.52	
2	5.88	5.94	5.23	5.11	5.23		5.18	44.41	44.53	41.74	
3	8.83	8.91	7.84	7.67	7.84		7.77	69.07	69.26	64.60	
4	11.78	11.89	10.46	10.23	10.46		10.37	98.21	98.53	90.87	
5	14.74	14.88	13.09	12.80	13.09		12.97	141.78	142.58	125.88	
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2	
1	19.25	20.02	20.24		19.83		18.85	18.88	18.23	17.17	
2	39.08	40.69	41.15		40.28		38.23	38.30	36.94	34.75	
3	60.23	62.87	63.62		62.19		58.84	58.96	56.75	53.22	
4	83.97	88.12	89.31		87.04		81.83	82.01	78.64	73.34	
5	113.48	120.74	122.93		118.80		109.90	110.20	104.76	96.58	
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY	
1	17.17	16.86	18.74		23.02	24.70					
2	34.75	34.10	38.00		47.04	50.65					
3	53.22	52.18	58.46		73.55	79.83					
4	73.34	71.80	81.25		105.92	117.63					
5	96.58	94.27	108.95								
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT	
1											
2											
3											
4											
5											
50 SN											
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1	
1	2.82	2.84	2.50	2.45	2.50		2.48	20.78	20.83	19.53	
2	5.64	5.69	5.00	4.89	5.01		4.96	42.29	42.40	39.65	
3	8.46	8.53	7.50	7.34	7.51		7.45	65.51	65.70	61.16	
4	11.29	11.39	10.00	9.79	10.03		9.93	92.35	92.65	85.43	
5	14.13	14.25	12.51	12.25	12.54		12.43	128.79	129.39	115.98	
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2	
1	18.31	19.07	19.28		18.85	18.19	17.96	17.99	17.29	16.32	
2	37.10	38.69	39.14		38.24	36.86	36.37	36.45	35.00	32.98	
3	57.01	59.59	60.33		58.86	56.61	55.83	55.95	53.62	50.40	
4	79.03	82.99	84.12		81.86	78.43	77.25	77.43	73.94	69.18	
5	105.37	111.82	113.74		109.95	104.43	102.58	102.85	97.49	90.42	
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY	
1		15.99	17.78		21.89	23.54					
2		32.31	36.01		44.63	48.15					
3		49.34	55.25		69.43	75.45					
4		67.63	76.37		98.81	109.34					
5		88.16	101.21		143.30						
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT	
1											
2											
3											
4											
5											

51	SB	MICA CRYSTAL, D# 9.980 ANGSTROMS									
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1	
1	2.70	2.73	2.39	2.34	2.40		2.38	19.84	19.89	18.60	
2	5.40	5.46	4.79	4.69	4.80		4.75	40.31	40.42	37.72	
3	8.10	8.19	7.19	7.03	7.20		7.14	62.25	62.43	58.01	
4	10.81	10.92	9.59	9.38	9.61		9.52	87.13	87.42	80.56	
5	13.52	13.67	1.99	11.73	12.02		11.91	118.96	119.48	107.82	
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2	
1	17.42	18.17	18.39		17.96	17.32	17.13	17.17	15.42	15.52	
2	35.26	36.82	37.28		36.37	35.05	34.65	34.73	33.20	31.33	
3	54.05	56.56	57.30		55.83	53.70	53.06	53.20	50.75	47.79	
4	74.57	78.35	79.48		77.25	74.06	73.11	73.31	69.69	65.38	
5	98.45	104.29	106.09		102.58	97.66	96.23	96.53	91.15	84.92	
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY	
1	15.52	15.20	16.89		20.83	22.46					
2	31.33	30.67	34.17		42.39	45.86					
3	47.79	46.74	52.29		65.68	71.52					
4	65.38	63.86	71.97		92.61	102.37					
5	84.92	82.76	94.52		129.33						
	KB5	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT	
1											
2											
3											
4											
5											
52	TE										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1	
1	2.59	2.62	2.30	2.24	2.30			18.97	19.02	17.74	
2	5.18	5.24	4.59	4.49	4.61			38.48	38.59	35.92	
3	7.77	7.86	6.89	6.74	6.91			59.25	59.43	55.09	
4	10.37	10.49	9.20	8.99	9.22			82.47	82.74	76.14	
5	12.97	13.12	11.50	11.24	11.53			110.95	111.41	100.85	
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2	
1	16.60	17.34	17.56		17.12	16.49	16.35	16.40	15.62	14.78	
2	33.57	35.10	35.54		34.64	33.34	33.05	33.15	31.54	29.81	
3	51.34	53.78	54.49		53.04	50.97	50.52	50.67	48.11	45.39	
4	70.56	74.17	75.24		73.08	70.02	69.35	69.58	65.84	61.92	
5	92.43	97.83	99.46		96.19	91.65	90.66	90.99	85.59	80.04	
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY	
1	14.78	14.45	16.07		19.84	21.46					
2	29.81	29.14	32.47		40.30	43.73					
3	45.39	44.35	49.59		62.23	67.93					
4	61.92	60.42	67.99		87.10	96.30					
5	80.04	77.95	88.68		118.91	137.22					
	KB5	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT	
1											
2											
3											
4											
5											

55 CS		MICA CRYSTAL, D# 9.980 ANGSTROMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	2.30	2.33	2.03	1.99	2.04			16.66	16.72	15.45
2	4.59	4.65	4.07	3.97	4.08			33.69	33.81	31.19
3	6.89	6.98	6.10	5.96	6.12			51.53	51.72	47.56
4	9.25	9.31	8.14	7.95	8.16			70.84	71.12	65.05
5	11.55	11.65	10.18	9.94	10.20			92.85	93.26	84.46
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	14.45	15.13	15.35		14.93	14.30	14.26	14.34	13.51	12.87
2	29.14	30.54	30.99		30.12	28.84	28.75	28.92	27.22	25.91
3	44.35	46.53	47.24		45.88	43.86	43.73	43.99	41.32	39.29
4	60.42	63.56	64.59		62.62	59.74	59.55	59.92	56.14	53.27
5	77.95	82.34	83.80		81.02	77.00	76.74	77.25	72.06	68.16
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	12.85	12.51	13.91		17.25	18.84				
2	25.86	25.16	28.03		34.90	38.22				
3	39.22	38.14	42.60		53.47	58.82				
4	53.17	51.66	57.94		73.71	81.80				
5	68.02	65.99	74.52		97.14	109.85				
	KB1	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										
56 BA										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	2.21	2.24	1.96	1.91	1.96		1.94	15.98	16.04	14.78
2	4.42	4.48	3.92	3.82	3.92		3.88	32.29	32.41	29.81
3	6.63	6.72	5.88	5.74	5.88		5.82	49.30	49.49	45.39
4	8.85	8.97	7.84	7.65	7.84		7.77	67.57	67.85	61.92
5	11.07	11.21	9.80	9.57	9.80		9.71	88.08	88.48	80.04
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	13.84	14.48	14.71		14.29		13.67	13.74	12.89	12.30
2	27.88	29.20	29.67		28.80		27.55	27.68	25.95	24.74
3	42.36	44.44	45.17		43.81		41.85	42.05	39.37	37.49
4	57.60	60.56	61.60		59.66		56.87	57.16	53.37	50.74
5	74.36	78.14	79.59		76.89		73.05	73.45	68.30	64.77
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	12.27	11.93	13.28		16.49	18.07				
2	24.69	24.00	26.74		33.33	36.62				
3	37.42	36.34	40.59		50.96	56.22				
4	50.64	49.14	55.10		70.00	77.84				
5	64.63	62.64	70.64		91.60	103.50				
	KB1	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

57

LA

MICA CRYSTAL, D# 9.980 ANGSTROMS

ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	2.13	2.15	1.88	1.84	1.89		1.87	15.35	15.40	14.15
2	4.26	4.31	3.77	3.67	3.78		3.74	30.98	31.08	28.52
3	6.39	6.46	5.65	5.51	5.67		5.62	47.23	47.39	43.36
4	8.53	8.62	7.54	7.35	7.56		7.49	64.56	64.81	59.02
5	10.67	10.78	9.43	9.20	9.45		9.37	83.76	84.11	76.01
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	13.25	13.87	14.10		13.69	13.09	13.13	13.18	12.32	11.77
2	26.68	27.95	28.41		27.58	26.35	26.44	26.53	24.79	23.66
3	40.50	42.47	43.20		41.90	39.99	40.12	40.26	37.56	35.82
4	54.97	57.76	58.78		56.95	54.25	54.43	54.63	50.84	48.41
5	70.47	74.27	75.68		73.16	69.49	69.73	70.01	64.90	61.66
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	11.74	11.40	12.68		15.78	17.32				
2	23.60	22.92	25.53		31.87	35.06				
3	35.73	34.68	38.71		48.64	53.72				
4	48.29	46.83	52.45		66.61	74.08				
5	61.50	59.57	67.06		86.69	97.70				
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

58

CE

ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	2.05	2.08	1.81	1.77	1.81			14.74	14.80	13.56
2	4.10	4.16	3.63	3.54	3.63			29.74	29.85	27.31
3	6.15	6.24	5.44	5.31	5.44			45.28	45.45	41.48
4	8.21	8.32	7.26	7.08	7.26			61.76	62.00	56.35
5	10.26	10.41	9.08	8.85	9.08			79.81	80.15	72.34
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	12.71	13.30	13.52		13.12	12.54	12.59	12.63	11.78	11.27
2	25.58	26.78	27.23		26.42	25.23	25.33	25.41	23.68	22.65
3	38.78	40.65	41.35		40.10	38.25	38.40	38.53	35.86	34.27
4	52.55	55.18	56.16		54.40	51.81	52.01	52.19	48.46	46.26
5	67.20	71.75	72.09		69.69	66.20	66.47	66.71	61.73	58.81
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	11.24	10.92	12.14		15.09	16.66				
2	22.59	21.94	24.41		30.44	33.69				
3	34.18	33.17	36.98		46.38	51.53				
4	46.13	44.74	50.03		63.34	70.84				
5	58.65	56.81	63.82		82.04	92.85				
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

59	PR	MICA CRYSTAL, D# 9.980 ANGSTROMS									
	ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
	1	1.98	2.00	1.75	1.71	1.75			14.18	14.23	12.99
	2	3.95	4.01	3.49	3.41	3.50			28.58	28.69	26.15
	3	5.93	6.01	5.24	5.12	5.25			43.45	43.64	39.68
	4	7.91	8.02	6.99	6.82	7.01			59.15	59.42	53.81
	5	9.89	10.03	8.73	8.53	8.76			76.19	76.56	68.89
		LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
	1	12.19	12.75	12.97		12.60	12.03	12.68	12.12	11.28	10.80
	2	24.52	25.67	26.12		25.35	24.19	24.29	24.38	22.66	21.70
	3	37.14	38.93	39.62		38.44	36.63	36.80	36.92	34.28	32.81
	4	50.26	52.76	53.73		52.06	49.55	49.78	49.95	46.28	44.24
	5	64.12	67.47	68.79		66.54	63.17	63.48	63.71	58.84	56.16
		LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
	1	10.77	10.46	11.62		14.46	16.04				
	2	21.65	21.00	23.36		29.16	32.40				
	3	32.72	31.73	35.35		44.36	49.47				
	4	44.12	42.76	47.76		60.45	67.82				
	5	56.00	54.22	60.80		77.99	88.44				
		KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
	1										
	2										
	3										
	4										
	5										
60	ND										
	ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
	1	1.91	1.93	1.68	1.64	1.69			13.64	13.70	12.47
	2	3.81	3.86	3.36	3.28	3.38			27.48	27.59	25.08
	3	5.72	5.79	5.05	4.93	5.07			41.74	41.92	38.02
	4	7.63	7.72	6.73	6.57	6.76			56.71	56.97	51.48
	5	9.54	9.66	8.42	8.22	8.45			72.84	73.20	65.75
		LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
	1	11.71	12.23	12.47		12.10	11.55	11.59	11.63	10.80	10.35
	2	23.54	24.60	25.08		24.34	23.23	23.31	23.39	21.69	20.79
	3	35.64	37.27	38.02		36.87	35.15	35.28	35.40	32.79	31.41
	4	48.16	50.43	51.48		49.88	47.48	47.66	47.83	44.22	42.31
	5	61.33	64.36	65.75		63.61	60.43	60.66	60.90	56.13	53.64
		LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
	1	10.32	10.03	11.13	10.67	13.86	15.41				
	2	20.73	20.13	22.36	21.42	27.94	31.11				
	3	31.32	30.39	33.82	32.38	42.46	47.43				
	4	42.19	40.91	45.63	43.65	57.73	64.86				
	5	53.47	51.81	57.99	55.38	74.24	84.19				
		KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
	1										
	2										
	3										
	4										
	5										

61 PM		MICA CRYSTAL, D# 9.980 ANGSTRCMS									
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1	
1	1.84	1.87	1.62	1.58	1.62			13.14	13.19	11.97	
2	3.69	3.73	3.24	3.17	3.25			26.45	26.55	24.07	
3	5.53	5.60	4.86	4.75	4.88			40.14	40.30	36.45	
4	7.38	7.47	6.48	6.34	6.50			54.45	54.69	49.29	
5	9.22	9.34	8.10	7.93	8.13			69.76	70.08	62.84	
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2	
1	11.25								10.44		
2	22.62								20.97		
3	34.21								31.68		
4	46.18								42.68		
5	58.71								54.12		
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY	
1											
2											
3											
4											
5											
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT	
1											
2											
3											
4											
5											
62 SM											
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1	
1	1.77	1.80	1.57	1.53	1.57			12.65	12.71	11.49	
2	3.55	3.61	3.14	3.05	3.15			25.46	25.59	23.10	
3	5.32	5.41	4.70	4.58	4.72			38.60	38.80	34.95	
4	7.10	7.22	6.27	6.11	6.30			52.29	52.58	47.21	
5	8.88	9.02	7.84	7.64	7.87			66.85	67.23	60.07	
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2	
1	10.82	11.28	11.50	10.23	11.19	10.67	10.70	10.75	9.93	9.54	
2	21.74	22.68	23.12	20.54	22.49	21.44	21.49	21.59	19.93	19.14	
3	32.86	34.30	34.99	31.02	34.01	32.40	32.49	32.63	30.09	28.88	
4	44.32	46.31	47.26	41.77	45.91	43.67	43.79	43.99	40.50	38.84	
5	56.26	58.88	60.13	52.93	58.35	55.41	55.57	55.83	51.27	49.11	
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY	
1	9.51	9.23	10.23		12.76	14.29					
2	19.09	18.52	20.54		25.68	28.80					
3	28.81	27.94	31.02		38.95	43.81					
4	38.74	37.55	41.77		52.78	59.66					
5	48.99	47.44	52.93		67.51	76.89					
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT	
1											
2											
3											
4											
5											

63 EU MICA CRYSTAL, D# 9.980 ANGSTRCMS										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	1.72	1.74	1.52	1.48	1.52			12.20	12.26	11.04
2	3.43	3.48	3.03	2.95	3.03			24.54	24.67	22.18
3	5.15	5.22	4.55	4.43	4.55			37.18	37.38	33.55
4	6.87	6.96	6.07	5.90	6.07			50.31	50.59	45.26
5	8.59	8.71	7.58	7.38	7.58			64.19	64.56	57.50
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	10.42	10.85	11.07		10.77	10.28	10.30	10.35	9.53	9.18
2	20.92	21.80	22.25		21.65	20.64	20.69	20.78	19.13	18.42
3	31.61	32.95	33.65		32.72	31.18	31.25	31.39	28.86	27.78
4	42.58	44.44	45.41		44.12	41.99	42.09	42.29	38.81	37.33
5	53.99	56.42	57.69		56.00	53.22	53.35	53.60	49.08	47.16
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	9.14	8.87	9.82		12.26	13.78	66.57			
2	18.35	17.80	19.71		24.66	27.77				
3	27.67	26.84	29.75		37.36	42.20				
4	37.19	36.05	40.03		50.56	57.37				
5	46.97	45.51	50.66		64.53	73.73				
	KB0	LB15	LB17	LB17	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										
64 GD										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	1.65	1.68	1.46	1.42	1.46			11.77	11.83	10.61
2	3.31	3.36	2.92	2.85	2.93			23.66	23.79	21.32
3	4.96	5.05	4.38	4.27	4.39			35.82	36.02	32.22
4	6.62	6.73	5.84	5.70	5.86			48.41	48.69	43.42
5	8.27	8.42	7.30	7.12	7.32			61.66	62.02	55.09
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	10.33	10.43	10.65		10.39	9.90	9.91	9.95	9.15	8.82
2	20.14	20.96	21.40		20.86	19.88	19.89	19.98	18.36	17.68
3	30.41	31.66	32.34		31.52	30.02	30.04	30.16	27.69	26.66
4	40.94	42.66	43.60		42.46	40.40	40.42	40.59	37.21	35.81
5	51.84	54.09	55.31		53.83	51.14	51.17	51.39	47.01	45.20
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	8.79	8.53	9.43		11.78	13.30				
2	17.63	17.11	18.93		23.70	26.79				
3	26.57	25.79	28.56		35.87	40.67				
4	35.69	34.63	38.40		48.49	55.20				
5	45.04	43.68	48.54		61.76	70.78				
	KB0	LB15	LB17	LB17	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

67 HO MICA CRYSTAL, D# 9.980 ANGSTRCMS										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	1.50	1.53	1.32	1.29				10.61	10.67	9.47
2	3.00	3.05	2.64	2.57				21.31	21.44	19.00
3	4.50	4.58	3.96	3.86				32.20	32.40	28.66
4	6.00	6.11	5.28	5.15				43.40	43.67	38.54
5	7.50	7.64	6.61	6.43				55.06	55.41	48.73
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	9.31	9.31	9.54		9.32			8.90	8.14	7.87
2	18.07	18.67	19.14		18.71			17.86	16.33	15.78
3	27.24	28.17	28.88		28.22			26.93	24.59	23.77
4	36.60	37.86	38.84		37.94			36.17	32.99	31.87
5	46.22	47.85	49.11		47.95			45.66	41.58	40.14
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	7.84	7.60	8.40		10.50	12.00				
2	15.71	15.22	16.85		21.09	24.13				
3	23.66	22.92	25.39		31.86	36.54				
4	31.73	30.73	34.07		42.93	49.42				
5	39.96	38.68	42.97		54.44	63.01				
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										
68 ER										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	1.45	1.48	1.28	1.25	1.23			10.26	10.32	9.12
2	2.89	2.95	2.56	2.49	2.55			20.59	20.73	18.30
3	4.34	4.43	3.84	3.74	3.84			31.11	31.32	27.60
4	5.79	5.90	5.12	4.98	5.12			41.90	42.19	37.09
5	7.24	7.38	6.40	6.23	6.40			53.09	53.47	46.85
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	8.70	8.97	9.20		9.01	8.59	8.53	8.59	7.84	7.59
2	17.45	18.00	18.46		18.07	17.22	17.11	17.22	15.71	15.21
3	26.31	27.14	27.85		27.24	25.95	25.79	25.95	23.66	22.90
4	35.32	36.46	37.43		36.60	34.84	34.63	34.84	31.73	30.70
5	44.58	46.04	47.29		46.22	43.96	43.68	43.96	39.96	38.65
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	7.55	7.33	8.08		10.09	11.61				
2	15.14	14.69	16.20		20.27	23.34				
3	22.80	22.11	24.40		30.61	35.33				
4	30.56	29.63	32.73		41.21	47.73				
5	38.47	37.28	41.24		52.19	60.76				
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

71 LU		MICA CRYSTAL, D# 9.980 ANGSTROMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	1.31	1.34	1.16	1.13	1.17			9.31	9.37	8.18
2	2.63	2.69	2.32	2.26	2.33			18.67	18.80	16.41
3	3.94	4.03	3.48	3.39	3.50			28.17	28.36	24.72
4	5.26	5.38	4.64	4.53	4.66			37.86	38.13	33.16
5	6.58	6.72	5.80	5.66	5.83			47.85	48.20	41.80
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	7.87	8.05	8.27	7.71	8.15	7.75	7.68	7.72	7.02	6.81
2	15.78	16.14	16.59	15.46	16.35	15.54	15.39	15.47	14.07	13.64
3	23.77	24.31	25.00	23.27	24.63	23.40	23.17	23.29	21.17	20.52
4	31.87	32.61	33.55	31.23	33.04	31.37	31.06	31.23	28.35	27.48
5	40.14	41.09	42.29	39.29	41.64	39.50	39.10	39.32	35.65	34.54
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	6.77	6.57	7.24	6.88	8.49	10.56	46.26			
2	13.57	13.15	14.51	13.79	17.03	21.20	103.55			
3	20.41	19.78	21.83	20.75	25.67	32.04				
4	27.33	26.48	29.25	27.78	34.46	43.18				
5	34.36	33.28	36.80	34.93	43.46	54.76				
	KB1	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										
72 HF										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	1.27	1.30	1.13	1.10	1.13			9.02	9.08	7.89
2	2.55	2.61	2.25	2.19	2.25			18.09	18.22	15.83
3	3.82	3.91	3.38	3.29	3.38			27.28	27.48	23.84
4	5.10	5.21	4.50	4.39	4.50			36.65	36.92	31.97
5	6.38	6.52	5.63	5.48	5.63			46.29	46.63	40.26
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	7.62	7.77	8.00	7.46	7.89	7.50	7.41	7.46	6.77	6.57
2	15.27	15.58	16.04	14.95	15.83	15.04	14.85	14.95	13.57	13.16
3	22.99	23.47	24.15	22.50	23.84	22.64	22.36	22.50	20.41	19.80
4	30.82	31.46	32.40	30.15	31.97	30.34	29.96	30.15	27.33	26.51
5	38.80	39.62	40.82	37.95	40.26	38.19	37.71	37.95	34.36	33.31
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	6.54	6.34	6.98	6.63	8.75	10.24	44.38	44.43		
2	13.10	12.69	13.99	13.29	17.56	20.56	98.12	98.25		
3	19.70	19.09	21.04	19.99	26.47	31.05				
4	26.37	25.54	28.18	26.77	35.54	41.82				
5	33.13	32.08	35.44	33.64	44.85	52.99				
	KB1	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

75 RE MICA CRYSTAL, D# 9.930 ANGSTROMS										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	1.17	1.19	1.03	1.00	1.03			9.23	8.30	7.12
2	2.33	2.39	2.06	2.00	2.06			15.51	16.64	14.26
3	3.50	3.58	3.08	3.00	3.08			24.88	25.07	21.46
4	4.66	4.78	4.11	4.00	4.11			33.38	33.64	28.75
5	5.83	5.97	5.14	5.00	5.14			42.07	42.41	36.16
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	6.93	7.01	7.23	6.76	7.19	6.81	6.69	6.73	6.09	5.93
2	13.89	14.04	14.49	13.55	14.40	13.65	13.41	13.49	12.21	11.87
3	20.90	21.13	21.82	20.38	21.68	20.54	20.17	20.29	18.35	17.85
4	28.00	28.30	29.23	27.29	29.04	27.50	27.00	27.17	24.55	23.87
5	35.20	35.59	36.77	34.30	36.53	34.57	33.94	34.15	30.83	29.96
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	5.89	5.70	6.28	5.96	7.89	9.37	38.18			
2	11.80	11.41	12.59	11.93	15.82	18.80	81.70			
3	17.74	17.15	18.93	17.93	23.82	28.36				
4	23.73	22.93	25.33	23.99	31.94	38.13				
5	29.79	28.78	31.81	30.11	40.23	48.20				
	KB1	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										
76 OS										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	1.13	1.16	1.00	0.97	1.00			7.99	8.06	6.88
2	2.26	2.32	2.00	1.94	2.00			16.02	16.15	13.78
3	3.39	3.48	3.00	2.91	3.00			24.14	24.33	20.73
4	4.53	4.64	4.00	3.88	4.00			32.37	32.64	27.76
5	5.66	5.80	5.00	4.85	5.00			40.78	41.12	34.90
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	6.72	6.78	7.00	6.55	6.97	6.60	6.47	6.51	5.89	5.73
2	13.47	13.58	14.02	13.12	13.96	13.22	12.96	13.04	11.79	11.48
3	20.26	20.43	21.10	19.73	21.01	19.89	19.49	19.61	17.72	17.25
4	27.12	27.36	28.26	26.41	28.14	26.62	26.08	26.25	23.71	23.07
5	34.09	34.39	35.53	33.19	35.38	33.46	32.77	32.98	29.76	28.96
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	5.70	5.51	6.07	5.75	7.63	9.11	37.95	37.95		
2	11.41	11.03	12.16	11.51	15.29	18.28	81.13	81.13		
3	17.15	16.57	18.28	17.31	23.03	27.56				
4	22.93	22.16	24.46	23.14	30.87	37.04				
5	28.78	27.80	30.71	29.04	38.86	46.79				
	KB1	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

79 AU		MICA CRYSTAL, D# 9.980 ANGSTROMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	1.33	1.06	0.91	0.89	0.92	0.88	0.91	7.33	7.40	6.23
2	2.07	2.12	1.83	1.78	1.84	1.77	1.81	14.69	14.83	12.47
3	3.10	3.19	2.74	2.67	2.76	2.65	2.72	22.11	22.32	18.75
4	4.13	4.25	3.65	3.56	3.67	3.54	3.63	29.63	29.92	25.09
5	5.17	5.31	4.57	4.45	4.59	4.42	4.54	37.28	37.65	31.51
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	6.15	6.13	6.36	5.97	6.38	6.03	5.86	5.90	5.32	5.19
2	12.31	12.29	12.74	11.96	12.78	12.08	11.74	11.82	10.66	10.39
3	18.51	18.47	19.16	17.99	19.23	18.16	17.65	17.78	16.02	15.62
4	24.76	24.72	25.63	24.06	25.73	24.29	23.61	23.78	21.41	20.87
5	31.09	31.04	32.20	30.20	32.32	30.50	29.64	29.85	26.85	26.18
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	5.16		5.49	5.19	6.91	8.39	34.03	34.11		
2	10.32		10.99	10.38	13.85	16.82	71.63	71.83		
3	15.51		16.52	15.60	20.83	25.35	122.75	123.25		
4	20.73		22.09	20.85	27.90	34.63				
5	26.00		27.71	26.15	35.08	42.91				
	KB0	LB15	LB17	LB17	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										
80 HG										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	1.00	1.03	0.88	0.86	0.89			7.13	7.20	6.03
2	2.01	2.07	1.77	1.72	1.78			14.29	14.43	12.07
3	3.01	3.10	2.65	2.58	2.67			21.50	21.71	18.14
4	4.02	4.13	3.54	3.45	3.56			28.80	29.09	24.27
5	5.03	5.17	4.42	4.31	4.45			36.22	36.59	30.47
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	5.97	5.94	6.16	5.80	6.20	5.85	5.66	5.72	5.15	5.03
2	11.96	11.89	12.33	11.62	12.43	11.72	11.34	11.46	10.31	10.06
3	17.99	17.88	18.54	17.46	18.68	17.62	17.04	17.22	15.50	15.11
4	24.06	23.92	24.81	23.36	25.00	23.57	22.79	23.03	20.71	20.20
5	30.20	30.02	31.15	29.31	31.39	29.58	28.66	28.90	25.97	25.32
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	4.99	4.82	5.31	5.01	6.69	8.17	32.98	32.98		
2	9.99	9.64	10.62	10.04	13.40	16.38	69.18	69.18		
3	15.01	14.49	15.97	15.08	20.15	24.68	116.77	116.77		
4	20.06	19.36	21.34	20.15	26.98	33.11				
5	25.15	24.26	26.77	25.26	33.91	41.74				
	KB0	LB15	LB17	LB17	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

83 B1		MICA CRYSTAL, D# 9.980 ANGSTROMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	0.92	0.95	0.82	0.79	0.82			6.57	6.63	5.47
2	1.85	1.91	1.63	1.58	1.64			13.16	13.29	10.95
3	2.77	2.86	2.45	2.38	2.46			19.80	19.99	16.45
4	3.70	3.81	3.26	3.17	3.28			26.51	26.77	22.00
5	4.62	4.77	4.08	3.96	4.11			33.31	33.64	27.59
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	5.48	5.39	5.61	5.32	5.70	5.37	5.16	5.20	4.67	4.57
2	10.98	10.80	11.24	10.65	11.42	10.75	10.32	10.41	9.35	9.15
3	16.51	16.23	16.89	16.00	17.17	16.16	15.51	15.64	14.04	13.74
4	22.07	21.69	22.58	21.39	22.96	21.60	20.73	20.90	18.75	18.36
5	27.68	27.21	28.33	26.83	28.81	27.09	26.00	26.21	23.50	23.00
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	4.53	4.37	4.82	4.54	6.08	7.56	29.71	29.78		
2	9.07	8.75	9.64	9.08	12.18	15.15	61.70	61.85		
3	13.62	13.14	14.49	13.64	18.32	22.82	100.57	100.87		
4	18.20	17.54	19.36	18.22	24.51	30.58				
5	22.80	21.98	24.26	22.83	30.77	38.50				
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										
84 PO										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	0.90	0.92	0.79	0.77				6.40	6.47	5.30
2	1.79	1.85	1.58	1.54				12.82	12.96	10.60
3	2.69	2.77	2.38	2.31				19.28	19.49	15.93
4	3.58	3.70	3.17	3.08				25.80	26.08	21.30
5	4.48	4.62	3.96	3.85				32.41	32.77	26.71
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	5.34	5.22	5.44	5.16	5.55				4.52	
2	10.68	10.45	10.89	10.34	11.12				9.05	
3	16.05	15.70	16.37	15.53	16.71				13.59	
4	21.46	20.99	21.88	20.76	22.35				18.15	
5	26.90	26.32	27.45	26.03	28.04				22.74	
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	4.39			4.39						
2	8.78			8.78						
3	13.19			13.19						
4	17.61			17.61						
5	22.07			22.07						
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

85 AT		MICA CRYSTAL, D# 9.980 ANGSTROMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	0.87	0.90	0.77	0.75				6.23	6.30	5.13
2	1.75	1.80	1.54	1.50				12.48	12.62	10.28
3	2.62	2.70	2.31	2.26				18.77	18.98	15.44
4	3.49	3.61	3.08	3.01				25.12	25.40	20.64
5	4.36	4.51	3.85	3.76				31.54	31.90	25.88
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	5.20								4.38	
2	10.41								8.77	
3	15.64								13.17	
4	20.90								17.59	
5	26.21								22.04	
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1										
2										
3										
4										
5										
	KB3	LB15	LB17	LB17	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										
86 RN										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	0.85	0.88	0.75	0.73				6.07	6.14	4.97
2	1.70	1.76	1.50	1.46				12.16	12.30	9.96
3	2.55	2.64	2.26	2.19				18.28	18.49	14.96
4	3.40	3.51	3.01	2.92				24.46	24.74	19.99
5	4.25	4.39	3.76	3.65				30.71	31.07	25.06
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	5.06								4.24	
2	10.13								8.49	
3	15.22								12.75	
4	20.34								17.03	
5	25.50								21.34	
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1										
2										
3										
4										
5										
	KB3	LB15	LB17	LB17	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

87 FR		MICA CRYSTAL, D# 9.980 ANGSTROMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	3.83	3.86	3.73	0.71				5.92	5.98	4.82
2	1.65	1.71	1.46	1.42				11.85	11.99	9.66
3	2.48	2.57	2.19	2.14				17.81	18.02	14.51
4	3.31	3.42	2.92	2.85				23.82	24.11	19.38
5	4.13	4.28	3.65	3.56				29.90	30.26	24.29
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	4.93								4.11	
2	9.86								9.23	
3	14.82								12.36	
4	19.83								16.50	
5	24.82								20.66	
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1										
2										
3										
4										
5										
	KB1	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										
88 RA										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	3.83	3.83	3.71	0.69				5.77	5.84	4.67
2	1.61	1.66	1.42	1.38				11.56	11.69	9.36
3	2.41	2.53	2.14	2.07				17.38	17.57	14.05
4	3.22	3.33	2.85	2.76				23.24	23.50	18.78
5	4.02	4.16	3.56	3.45				29.16	29.49	23.53
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	4.85	4.61	4.83	4.63	5.00	4.69	4.42	4.45	3.99	3.92
2	9.65	9.23	9.67	9.26	10.01	9.38	8.84	8.91	7.99	7.84
3	14.42	13.86	14.52	13.92	15.04	14.09	13.27	13.38	11.99	11.77
4	19.27	18.52	19.41	18.59	20.10	18.82	17.73	17.87	16.01	15.71
5	24.15	23.21	24.32	23.30	25.21	23.59	22.21	22.39	20.05	19.67
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	3.88	3.73	4.12	3.86	5.21	6.70				
2	7.76	7.46	8.24	7.73	10.43	13.43				
3	11.65	11.20	12.37	11.61	15.67	20.20				
4	15.55	14.95	16.52	15.50	20.95	27.05				
5	19.47	18.71	20.69	19.41	26.27	34.00				
	KB1	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

89 AC		MICA CRYSTAL, D# 9.980 ANGSTROMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	3.78	3.81	3.69	3.67				5.63	5.70	4.53
2	1.56	1.62	1.39	1.34				11.27	11.41	9.07
3	2.34	2.43	2.08	2.02				16.94	17.15	13.62
4	3.12	3.24	2.78	2.69				22.65	22.93	18.20
5	3.90	4.05	3.47	3.36				28.42	28.78	22.80
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	4.67								3.87	
2	9.36								7.74	
3	14.05								11.63	
4	18.78								15.53	
5	23.53								19.44	
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1										
2										
3										
4										
5										
	KB1	LB15	LB17	LB17	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										
90 TH										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	3.76	3.79	3.67	3.65	3.68		3.67	5.49	5.56	4.39
2	1.53	1.58	1.34	1.31	1.35		1.33	10.99	11.13	8.79
3	2.29	2.38	2.02	1.96	2.03		2.00	16.52	16.73	13.20
4	3.05	3.17	2.69	2.62	2.71		2.66	22.09	22.37	17.64
5	3.82	3.96	3.36	3.27	3.39		3.33	27.71	28.07	22.10
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	4.56	4.34	4.55	4.39	4.75	4.44	4.15	4.19	3.75	3.69
2	9.13	8.68	9.11	8.79	9.52	8.90	8.31	8.39	7.50	7.38
3	13.71	13.03	13.69	13.20	14.30	13.36	12.48	12.60	11.26	11.07
4	18.31	17.40	18.29	17.64	19.10	17.85	16.66	16.82	15.04	14.78
5	22.95	21.80	22.92	22.10	23.94	22.36	20.87	21.07	18.83	18.51
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	3.65	3.51	3.88	3.63	4.90	6.40	23.93	24.01		
2	7.31	7.02	7.76	7.26	9.82	12.83	48.99	49.16		
3	10.97	10.54	11.65	10.90	14.75	19.29	76.92	77.20		
4	14.65	14.07	15.55	14.55	19.71	25.82	112.05	112.58		
5	18.33	17.61	19.47	18.22	24.71	32.44				
	KB1	LB15	LB17	LB17	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

91 PA MICA CRYSTAL, D# 9.980 ANGSTROMS										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	0.74	0.77	0.65	0.64				5.36	5.43	4.26
2	1.48	1.54	1.31	1.27				10.73	10.87	8.53
3	2.22	2.31	1.96	1.91				16.12	16.33	12.81
4	2.96	3.08	2.62	2.55				21.55	21.83	17.10
5	3.70	3.85	3.27	3.19				27.03	27.39	21.42
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	4.44	4.20	4.42	4.28	4.64	4.34	4.03	4.07	3.64	3.58
2	8.90	8.41	8.85	8.56	9.29	8.68	8.06	8.14	7.28	7.17
3	13.36	12.63	13.29	12.86	13.95	13.03	12.10	12.22	10.94	10.76
4	17.85	16.87	17.75	17.17	18.64	17.40	16.15	16.31	14.60	14.37
5	22.36	21.13	22.24	21.51	23.36	21.80	20.23	20.43	18.28	17.99
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	3.54	3.41	3.76	3.52	4.76	6.27	23.25	23.33		
2	7.09	6.82	7.53	7.04	9.53	12.55	47.53	47.70		
3	10.64	10.24	11.30	10.57	14.32	18.88	74.39	74.67		
4	14.21	13.67	15.09	14.11	19.13	25.26	107.42	107.92		
5	17.78	17.11	18.89	17.67	23.97	31.72				
	KBJ	LB15	LB17	LB17	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										
92 U										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	0.72	0.75	0.64	0.63	0.64			5.23	5.30	4.13
2	1.45	1.50	1.27	1.25	1.29			10.47	10.60	8.27
3	2.17	2.26	1.91	1.88	1.93			15.74	15.93	12.43
4	2.89	3.01	2.55	2.50	2.57			21.04	21.30	16.59
5	3.62	3.76	3.19	3.13	3.22			26.38	26.71	20.78
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	4.34	4.08	4.30	4.17	4.53	4.23	3.91	3.94	3.52	3.47
2	8.68	8.16	8.60	8.34	9.06	8.46	7.83	7.89	7.07	6.95
3	13.03	12.25	12.91	12.53	13.60	12.70	11.75	11.85	10.61	10.43
4	17.40	16.36	17.24	16.73	18.17	16.96	15.69	15.83	14.16	13.93
5	21.80	20.49	21.60	20.96	22.77	21.25	19.64	19.82	17.72	17.43
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	3.43		3.65	3.42	4.62	6.13	22.59	22.68		
2	6.87		7.30	6.84	9.25	12.27	46.13	46.31		
3	10.31		10.95	10.26	13.90	18.46	71.98	72.28		
4	13.77		14.62	13.70	18.57	24.69	103.18	103.70		
5	17.23		18.31	17.14	23.27	31.01				
	KBJ	LB15	LB17	LB17	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

[illegible]

95 AM		MICA CRYSTAL, D# 9.980 ANGSTROMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	0.67	0.70	0.59	0.57				4.87	4.94	3.78
2	1.34	1.40	1.18	1.15				9.75	9.89	7.56
3	2.02	2.10	1.77	1.72				14.65	14.85	11.35
4	2.69	2.80	2.37	2.30				19.57	19.85	15.15
5	3.36	3.50	2.96	2.87				24.53	24.88	18.97
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	4.03								3.23	
2	8.06								6.46	
3	12.10								9.69	
4	16.15								12.93	
5	20.23								16.19	
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1										
2										
3										
4										
5										
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										
96 CM										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	0.65	0.68	0.58	0.56				4.76	4.83	3.67
2	1.31	1.37	1.16	1.13				9.53	9.67	7.34
3	1.96	2.05	1.74	1.69				14.32	14.52	11.02
4	2.62	2.73	2.32	2.25				19.13	19.41	14.71
5	3.27	3.42	2.90	2.81				23.97	24.32	18.42
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	3.93								3.14	
2	7.87								6.27	
3	11.82								9.41	
4	15.78								12.56	
5	19.76								15.72	
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1										
2										
3										
4										
5										
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

TABLE 2
GONIOMETER ANGLES ARRANGED BY ANGLE MAGNITUDE

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MICA CRYSTAL, D# 9.980 ANGSTROMS							0.53 TO 0.78						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
0.53	98 CF	KB2	1	0.093	1		0.67	95 AM	KA1	1	0.117	1	
0.54	97 BK	KB2	1	0.095	1		0.67	90 TH	KB1	1	0.117	1,2,3	
0.56	98 CF	KB1	1	0.097	1		0.68	90 TH	KB3	1	0.118	1,2	
0.56	97 BK	KB1	1	0.098	1		0.68	96 CM	KA2	1	0.119	1	
0.56	96 CM	KB2	1	0.098	1		0.69	88 RA	KB2	1	0.120	1	
0.57	95 AM	KB2	1	0.100	1		0.69	94 PU	KA1	1	0.120	1	
0.58	96 CM	KB1	1	0.101	1		0.69	89 AC	KB1	1	0.121	1	
0.59	94 PU	KB2	1	0.103	1		0.70	95 AM	KA2	1	0.122	1	
0.59	95 AM	KB1	1	0.103	1		0.71	93 NP	KA1	1	0.123	1	
0.60	93 NP	KB2	1	0.105	1		0.71	88 RA	KB1	1	0.124	1	
0.61	94 PU	KB1	1	0.106	1		0.71	87 FR	KB2	1	0.124	1	
0.62	98 CF	KA1	1	0.108	1		0.72	94 PU	KA2	1	0.125	1	
0.63	93 NP	KB1	1	0.109	1		0.72	92 U	KA1	1	0.126	1,2,3	
0.63	92 U	KB2	1	0.109	1,2,3		0.73	86 RN	KB2	1	0.127	1	
0.64	97 BK	KA1	1	0.111	1		0.73	87 FR	KB1	1	0.127	1	
0.64	91 PA	KB2	1	0.111	1		0.73	93 NP	KA2	1	0.128	1	
0.64	92 U	KB1	1	0.111	1,2,3		0.74	91 PA	KA1	1	0.129	1	
0.64	92 U	KB3	1	0.112	1,2		0.75	86 RN	KB1	1	0.131	1	
0.65	98 CF	KA2	1	0.113	1		0.75	92 U	KA2	1	0.131	1,2,3	
0.65	90 TH	KB2	1	0.114	1,3		0.75	85 AT	KB2	1	0.131	1	
0.65	91 PA	KB1	1	0.114	1		0.76	90 TH	KA1	1	0.133	1,2,3	
0.65	96 CM	KA1	1	0.114	1		0.77	84 PC	KB2	1	0.134	1	
0.67	90 TH	KB5	1	0.116	1,2		0.77	85 AT	KB1	1	0.134	1	
0.67	97 BK	KA2	1	0.116	1		0.77	91 PA	KA2	1	0.134	1	
0.67	89 AC	KB2	1	0.117	1		0.78	89 AC	KA1	1	0.136	1	

MICA CRYSTAL, D# 9.980 ANGSTROMS						0.79 TO 1.00					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
0.79	83 BI	K82	1	0.138	1,3	0.89	80 HG	K83	1	0.155	1
0.79	84 PO	K81	1	0.138	1	0.90	84 PC	KA1	1	0.156	1
0.79	90 TH	KA2	1	0.138	1,2,3	0.90	85 AT	KA2	1	0.157	1
0.80	88 RA	KA1	1	0.140	1	0.91	79 AU	K85	1	0.158	1
0.81	82 PB	K84	1	0.141	1,2	0.91	78 PT	K82	1	0.159	1,3
0.81	89 AC	KA2	1	0.141	1	0.91	79 AU	K81	1	0.159	1,2,3
0.81	82 PB	K82	1	0.142	1,3	0.91	78 PT	K84	1	0.159	1,2
0.81	83 BI	K81	1	0.142	1,2,3	0.92	79 AU	K83	1	0.160	1,2
0.82	83 BI	K83	1	0.143	1,2	0.92	84 PC	KA2	1	0.161	1
0.83	87 FR	KA1	1	0.144	1	0.92	83 BI	KA1	1	0.161	1,2,3
0.83	88 RA	KA2	1	0.145	1	0.94	77 IR	K84	1	0.163	1,2
0.83	82 PB	K85	1	0.145	1	0.94	78 PT	K85	1	0.163	1
0.84	81 TL	K82	1	0.146	1	0.94	78 PT	K81	1	0.164	1,2,3
0.84	82 PB	K81	1	0.146	1,2,3	0.94	78 PT	K83	1	0.164	1,2
0.84	82 PB	K83	1	0.147	1	0.94	77 IR	K82	1	0.164	1,3
0.85	86 RN	KA1	1	0.148	1	0.95	82 PB	KA1	1	0.165	1,2,3
0.85	87 FR	KA2	1	0.149	1	0.95	83 BI	KA2	1	0.166	1,2,3
0.86	81 TL	K81	1	0.150	1,2,3	0.96	77 IR	K85	1	0.167	1
0.86	80 HG	K82	1	0.150	1	0.97	77 IR	K83	1	0.169	1,2
0.87	81 TL	K83	1	0.151	1,2	0.97	77 IR	K81	1	0.169	1,2,3
0.87	85 AT	KA1	1	0.152	1	0.97	76 OS	K82	1	0.169	1,3
0.88	86 RN	KA2	1	0.153	1	0.98	81 TL	KA1	1	0.170	1,2,3
0.88	79 AU	K84	1	0.154	1,2	0.98	82 PB	KA2	1	0.170	1,2,3
0.88	80 HG	K81	1	0.154	1	1.00	76 OS	K83	1	0.174	1,2
0.89	79 AU	K82	1	0.155	1,3	1.00	76 OS	K81	1	0.174	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS							1.00 TO 1.23						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
1.00	75 RE	KB2	1	0.174	1,3		1.13	96 CM	KB2	2	0.098	1	
1.00	81 TL	KA2	1	0.175	1,2,3		1.13	72 HF	KB3	1	0.196	1,2	
1.00	80 HG	KA1	1	0.175	1		1.13	97 BK	KB1	2	0.098	1	
1.03	75 RE	KB3	1	0.179	1,2		1.13	77 IR	KA2	1	0.196	1,2,3	
1.03	74 W	KB2	1	0.179	1,2,3		1.13	72 HF	KB1	1	0.196	1,2,3	
1.03	75 RE	KB1	1	0.179	1,2,3		1.13	71 LU	KB2	1	0.197	1,2,3	
1.03	74 W	KB4	1	0.179	1		1.13	76 OS	KA1	1	0.197	1,2,3	
1.03	80 HG	KA2	1	0.180	1		1.15	95 AM	KB2	2	0.100	1	
1.03	79 AU	KA1	1	0.180	1,2,3		1.16	71 LU	KB1	1	0.202	1,2,3	
1.05	74 W	KB5	1	0.183	1		1.16	76 OS	KA2	1	0.202	1,2,3	
1.06	73 TA	KB4	1	0.184	1		1.16	96 CM	KB1	2	0.101	1	
1.06	74 W	KB1	1	0.184	1,2,3		1.16	75 RE	KA1	1	0.203	1,2,3	
1.06	79 AU	KA2	1	0.185	1,2,3		1.16	71 LU	KB3	1	0.203	1,2	
1.06	74 W	KB3	1	0.185	1,2		1.17	70 YB	KB2	1	0.204	1,2,3	
1.06	73 TA	KB2	1	0.185	1,2,3		1.18	94 PU	KB2	2	0.103	1	
1.07	98 CF	KB2	2	0.093	1		1.18	95 AM	KB1	2	0.103	1	
1.07	78 PT	KA1	1	0.186	1,2,3		1.19	75 RE	KA2	1	0.208	1,2,3	
1.08	73 TA	KB5	1	0.189	1		1.20	74 W	KA1	1	0.209	1,2,3	
1.09	97 BK	KB2	2	0.095	1		1.20	70 YB	KB1	1	0.209	1,2,3	
1.09	78 PT	KA2	1	0.190	1,2,3		1.20	70 YB	KB3	1	0.209	1,2	
1.09	73 TA	KB1	1	0.190	1,2,3		1.21	93 NP	KB2	2	0.105	1	
1.10	77 IR	KA1	1	0.191	1,2,3		1.21	69 TM	KB2	1	0.210	1	
1.10	72 HF	KB2	1	0.191	1,2,3		1.22	94 PU	KB1	2	0.106	1	
1.10	73 TA	KB3	1	0.191	1,2		1.23	74 W	KA2	1	0.214	1,2,3	
1.11	98 CF	KB1	2	0.097	1		1.23	69 TM	KB1	1	0.215	1,2,3	

MICA CRYSTAL, D# 9.98C ANGSTROMS							1.23 TO 1.45						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
1.23	73 TA	KA1	1	0.215	1,2,3		1.34	71 LU	KA2	1	0.234	1,2,3	
1.24	98 CF	KA1	2	0.108	1		1.34	89 AC	KB2	2	0.117	1	
1.24	69 TM	KB3	1	0.216	1,2		1.34	95 AM	KA1	2	0.117	1	
1.25	68 ER	KB2	1	0.217	1,2,3		1.34	90 TH	KB1	2	0.117	1,2,3	
1.25	93 NP	KB1	2	0.109	1		1.35	90 TH	KB3	2	0.118	1,2	
1.25	92 U	KB2	2	0.109	1,2,3		1.36	66 DY	KB1	1	0.237	1,2,3	
1.26	73 TA	KA2	1	0.220	1,2,3		1.36	70 YB	KA1	1	0.237	1,2,3	
1.27	92 U	KB1	2	0.111	1,2,3		1.37	66 DY	KB3	1	0.238	1,2	
1.27	91 PA	KB2	2	0.111	1		1.37	96 CM	KA2	2	0.119	1	
1.27	97 BK	KA1	2	0.111	1		1.38	65 TB	KB2	1	0.240	1,2,3	
1.27	72 HF	KA1	1	0.222	1,2,3		1.38	94 PU	KA1	2	0.120	1	
1.28	68 ER	KB1	1	0.223	1,2,3		1.38	88 RA	KB2	2	0.120	1	
1.28	68 ER	KB3	1	0.223	1,2		1.38	70 YB	KA2	1	0.241	1,2,3	
1.29	67 HO	KB2	1	0.224	1		1.39	89 AC	KB1	2	0.121	1	
1.29	92 U	KB3	2	0.112	1,2		1.40	95 AM	KA2	2	0.122	1	
1.30	98 CF	KA2	2	0.113	1		1.40	69 TM	KA1	1	0.244	1,2,3	
1.30	72 HF	KA2	1	0.227	1,2,3		1.41	93 NP	KA1	2	0.123	1	
1.31	90 TH	KB2	2	0.114	1,3		1.41	65 TB	KB3	1	0.246	1,2	
1.31	91 PA	KB1	2	0.114	1		1.41	65 TB	KB1	1	0.246	1,2,3	
1.31	96 CM	KA1	2	0.114	1		1.42	64 GD	KB2	1	0.248	1,2,3	
1.31	71 LU	KA1	1	0.229	1,2,3		1.42	88 RA	KB1	2	0.124	1	
1.32	67 HO	KB1	1	0.230	1		1.42	87 FR	KB2	2	0.124	1	
1.33	97 BK	KA2	2	0.116	1		1.43	69 TM	KA2	1	0.249	1,2,3	
1.33	66 DY	KB2	1	0.232	1,2,3		1.43	94 PU	KA2	2	0.125	1	
1.33	90 TH	KB3	2	0.116	1,2		1.45	92 U	KA1	2	0.126	1,2,3	

MICA CRYSTAL, D# 9.98E ANGSTROMS						1.45 TO 1.68					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
1.45	68 ER	KA1	1	0.252	1,2,3	1.57	62 SM	KB3	1	0.274	1,2
1.46	87 FR	KB1	2	0.127	1	1.58	84 PO	KB1	2	0.138	1
1.46	64 GD	KB1	1	0.254	1,2,3	1.58	90 TH	KA2	2	0.138	1,2,3
1.46	86 RN	KB2	2	0.127	1	1.58	83 BI	KB2	2	0.138	1,3
1.46	64 GD	KB3	1	0.255	1,2	1.58	61 PM	KB2	1	0.276	1
1.47	93 NP	KA2	2	0.128	1	1.60	65 TB	KA1	1	0.279	1,2,3
1.47	63 EU	KB2	1	0.257	1,2,3	1.60	98 CF	KB2	3	0.093	1
1.47	68 ER	KA2	1	0.257	1,2,3	1.61	88 RA	KA1	2	0.140	1
1.48	91 PA	KA1	2	0.129	1	1.62	61 PM	KB1	1	0.282	1,2,3
1.50	67 HO	KA1	1	0.261	1,2,3	1.62	89 AC	KA2	2	0.141	1
1.50	85 AT	KB2	2	0.131	1	1.62	82 PB	KB4	2	0.141	1,2
1.50	92 U	KA2	2	0.131	1,2,3	1.63	61 PM	KB3	1	0.283	2
1.50	86 RN	KB1	2	0.131	1	1.63	65 TB	KA2	1	0.283	1,2,3
1.52	63 EU	KB3	1	0.264	1,2	1.63	82 PB	KB2	2	0.142	1,3
1.52	63 EU	KB1	1	0.264	1,2,3	1.63	83 BI	KB1	2	0.142	1,2,3
1.53	62 SM	KB2	1	0.266	1,2,3	1.64	97 BK	KB2	3	0.095	1
1.53	90 TH	KA1	2	0.133	1,2,3	1.64	60 ND	KB2	1	0.286	1,2,3
1.53	67 HO	KA2	1	0.266	1,2,3	1.64	83 BI	KB3	2	0.143	1,2
1.54	85 AT	KB1	2	0.134	1	1.65	87 FR	KA1	2	0.144	1
1.54	91 PA	KA2	2	0.134	1	1.65	64 GD	KA1	1	0.288	1,2,3
1.54	84 PO	KB2	2	0.134	1	1.66	88 RA	KA2	2	0.145	1
1.55	66 DY	KA1	1	0.270	1,2,3	1.66	82 PB	KB5	2	0.145	1
1.56	89 AC	KA1	2	0.136	1	1.67	98 CF	KB1	3	0.097	1
1.57	62 SM	KB1	1	0.273	1,2,3	1.68	81 TL	KB2	2	0.146	1
1.57	66 DY	KA2	1	0.274	1,2,3	1.68	82 PB	KB1	2	0.146	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS						1.68 TO 1.88					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
1.68	64 GD	KA2	1	0.293	1,2,3	1.77	94 PU	KB2	3	0.103	1
1.68	60 ND	KB1	1	0.293	1,2,3	1.78	79 AU	KB2	2	0.155	1,3
1.69	97 BK	KB1	3	0.098	1	1.78	80 HG	KB3	2	0.155	1
1.69	82 PB	KB3	2	0.147	1	1.79	84 PO	KA1	2	0.156	1
1.69	96 CM	KB2	3	0.098	1	1.80	85 AT	KA2	2	0.157	1
1.69	60 ND	KB3	1	0.294	1,2	1.80	62 SM	KA2	1	0.314	1,2,3
1.70	86 RN	KA1	2	0.148	1	1.81	93 NP	KB2	3	0.105	1
1.70	59 PR	KB2	1	0.297	1,2,3	1.81	58 CE	KB3	1	0.316	1,2
1.71	87 FR	KA2	2	0.149	1	1.81	58 CE	KB1	1	0.316	1,2,3
1.72	63 EU	KA1	1	0.299	1,2,3	1.81	79 AU	KB5	2	0.158	1
1.72	80 HG	KB2	2	0.150	1	1.83	78 PT	KB2	2	0.159	1,3
1.72	81 TL	KB1	2	0.150	1,2,3	1.83	78 PT	KB4	2	0.159	1,2
1.72	95 AM	KB2	3	0.100	1	1.83	94 PU	KB1	3	0.106	1
1.73	81 TL	KB3	2	0.151	1,2	1.83	79 AU	KB1	2	0.159	1,2,3
1.74	63 EU	KA2	1	0.303	1,2,3	1.84	57 LA	KB2	1	0.320	1,2,3
1.74	96 CM	KB1	3	0.101	1	1.84	79 AU	KB3	2	0.160	1,2
1.74	85 AT	KA1	2	0.152	1	1.84	61 PM	KA1	1	0.321	1,2,3
1.74	59 PR	KB1	1	0.304	1,2,3	1.85	83 BI	KA1	2	0.161	1,2,3
1.75	59 PR	KB3	1	0.305	1,2	1.85	84 PO	KA2	2	0.161	1
1.76	86 RN	KA2	2	0.153	1	1.86	98 CF	KA1	3	0.108	1
1.77	79 AU	KB4	2	0.154	1,2	1.87	61 PM	KA2	1	0.325	1,2,3
1.77	80 HG	KB1	2	0.154	1	1.87	78 PT	KB5	2	0.163	1
1.77	58 CE	KB2	1	0.308	1,2,3	1.87	77 IR	KB4	2	0.163	1,2
1.77	62 SM	KA1	1	0.309	1,2,3	1.87	57 LA	KB5	1	0.326	1
1.77	95 AM	KB1	3	0.103	1	1.88	92 U	KB2	3	0.109	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS							1.88 TO 2.05					
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF
1.88	93 NF	KB1	3	0.109	1		1.96	90 TH	KB2	3	0.114	1,3
1.88	57 LA	KB1	1	0.328	1,2,3		1.96	91 PA	KB1	3	0.114	1
1.88	78 PT	KB1	2	0.164	1,2,3		1.96	96 CM	KA1	3	0.114	1
1.88	78 PT	KB3	2	0.164	1,2		1.97	59 PR	KA1	1	0.344	1,2,3
1.88	77 IR	KB2	2	0.164	1,3		1.99	55 CS	KB2	1	0.346	1,2,3
1.89	57 LA	KB3	1	0.329	1,2		2.00	76 OS	KB3	2	0.174	1,2
1.89	82 PB	KA1	2	0.165	1,2,3		2.00	90 TH	KB5	3	0.116	1,2
1.91	83 BI	KA2	2	0.166	1,2,3		2.00	76 OS	KB1	2	0.174	1,2,3
1.91	60 ND	KA1	1	0.332	1,2,3		2.00	97 BK	KA2	3	0.116	1
1.91	91 PA	KB2	3	0.111	1		2.00	75 RE	KB2	2	0.174	1,3
1.91	97 BK	KA1	3	0.111	1		2.00	59 PR	KA2	1	0.349	1,2,3
1.91	92 U	KB1	3	0.111	1,2,3		2.01	81 TL	KA2	2	0.175	1,2,3
1.91	56 BA	KB2	1	0.333	1,2,3		2.01	80 HG	KA1	2	0.175	1
1.92	77 IR	KB5	2	0.167	1		2.01	95 AP	KA1	3	0.117	1
1.93	92 U	KB3	3	0.112	1,2		2.01	90 TH	KB1	3	0.117	1,2,3
1.93	60 ND	KA2	1	0.336	1,2,3		2.01	89 AC	KB2	3	0.117	1
1.94	76 OS	KB2	2	0.169	1,3		2.03	90 TH	KB3	3	0.118	1,2
1.94	56 BA	KB5	1	0.338	1		2.03	55 CS	KB1	1	0.354	1,2,3
1.94	77 IR	KB1	2	0.169	1,2,3		2.04	55 CS	KB3	1	0.355	1,2
1.94	77 IR	KB3	2	0.169	1,2		2.05	96 CM	KA2	3	0.119	1
1.95	98 CF	KA2	3	0.113	1		2.05	58 CE	KA1	1	0.357	1,2,3
1.95	81 TL	KA1	2	0.170	1,2,3		2.05	75 RE	KB3	2	0.179	1,2
1.95	82 FB	KA2	2	0.170	1,2,3		2.05	74 W	KB4	2	0.179	1
1.96	56 BA	KB1	1	0.341	1,2,3		2.05	74 W	KB2	2	0.179	1,2,3
1.96	56 BA	KB3	1	0.341	1,2		2.05	75 RE	KB1	2	0.179	1,2,3

MICA CRYSTAL, D# 9.986 ANGSTROMS							2.07 TO 2.26						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
2.07	79 AU	KA1	2	0.180	1,2,3		2.17	92 U	KA1	3	0.126	1,2,3	
2.07	54 XE	KB2	1	0.360	1,2,3		2.18	78 PT	KA2	2	0.190	1,2,3	
2.07	80 HG	KA2	2	0.180	1		2.18	73 TA	KB1	2	0.190	1,2,3	
2.07	88 RA	KB2	3	0.120	1		2.18	97 BK	KB2	4	0.095	1	
2.07	94 PU	KA1	3	0.120	1		2.19	87 FR	KB1	3	0.127	1	
2.08	58 CE	KA2	1	0.362	1,2,3		2.19	86 RN	KB2	3	0.127	1	
2.08	89 AC	KB1	3	0.121	1		2.19	73 TA	KB3	2	0.191	1,2	
2.10	74 W	KB5	2	0.183	1		2.19	77 IR	KA1	2	0.191	1,2,3	
2.10	95 AM	KA2	3	0.122	1		2.19	72 HF	KB2	2	0.191	1,2,3	
2.11	73 TA	KB4	2	0.184	1		2.20	93 NP	KA2	3	0.128	1	
2.11	54 XE	KB1	1	0.368	1,2,3		2.20	53 I	KB1	1	0.384	1,2,3	
2.11	74 W	KB1	2	0.184	1,2,3		2.21	56 BA	KA1	1	0.385	1,2,3	
2.12	93 NP	KA1	3	0.123	1		2.21	53 I	KB3	1	0.385	1,2	
2.12	74 W	KB3	2	0.185	1,2		2.22	91 PA	KA1	3	0.129	1	
2.12	79 AU	KA2	2	0.185	1,2,3		2.23	98 CF	KB1	4	0.097	1	
2.12	73 TA	KB2	2	0.185	1,2,3		2.24	56 BA	KA2	1	0.390	1,2,3	
2.13	57 LA	KA1	1	0.371	1,2,3		2.24	52 TE	KB2	1	0.391	1,2,3	
2.14	78 PT	KA1	2	0.186	1,2,3		2.25	77 IR	KA2	2	0.196	1,2,3	
2.14	98 CF	KB2	4	0.093	1		2.25	72 HF	KB3	2	0.196	1,2	
2.14	88 RA	KB1	3	0.124	1		2.25	96 CM	KB2	4	0.098	1	
2.14	87 FR	KB2	3	0.124	1		2.25	97 BK	KB1	4	0.098	1	
2.15	57 LA	KA2	1	0.375	1,2,3		2.25	72 HF	KB1	2	0.196	1,2,3	
2.15	94 PU	KA2	3	0.125	1		2.26	92 U	KA2	3	0.131	1,2,3	
2.15	53 I	KB2	1	0.375	1,2,3		2.26	86 RN	KB1	3	0.131	1	
2.17	73 TA	KB5	2	0.189	1		2.26	85 AT	KB2	3	0.131	1	

MICA CRYSTAL, D# 9.98C ANGSTROMS						2.26 TC 2.48					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
2.26	71 LU	KB2	2	0.197	1,2,3	2.39	75 RE	KA2	2	0.203	1,2,3
2.26	76 OS	KA1	2	0.197	1,2,3	2.39	54 XE	KA1	1	0.415	1,2,3
2.29	90 TH	KA1	3	0.133	1,2,3	2.39	51 SB	KB1	1	0.417	1,2,3
2.30	95 AM	KB2	4	0.100	1	2.40	70 YB	KB3	2	0.209	1,2
2.30	52 TE	KB1	1	0.400	1,2,3	2.40	74 W	KA1	2	0.209	1,2,3
2.30	55 CS	KA1	1	0.400	1,2,3	2.40	70 YB	KB1	2	0.209	1,2,3
2.30	52 TE	KB3	1	0.401	1,2	2.40	51 SB	KB3	1	0.418	1,2
2.31	91 PA	KA2	3	0.134	1	2.41	54 XE	KA2	1	0.420	1,2,3
2.31	84 PO	KB2	3	0.134	1	2.41	93 NP	KB2	4	0.105	1
2.31	85 AT	KB1	3	0.134	1	2.41	88 RA	KA1	3	0.140	1
2.32	76 OS	KA2	2	0.202	1,2,3	2.41	69 TM	KB2	2	0.210	1
2.32	96 CM	KB1	4	0.101	1	2.43	89 AC	KA2	3	0.141	1
2.32	71 LU	KB1	2	0.202	1,2,3	2.43	82 PB	KB4	3	0.141	1,2
2.32	55 CS	KA2	1	0.405	1,2,3	2.43	94 PU	KB1	4	0.106	1
2.33	71 LU	KB3	2	0.203	1,2	2.45	83 BI	KB1	3	0.142	1,2,3
2.33	75 RE	KA1	2	0.203	1,2,3	2.45	50 SN	KB2	1	0.426	1,2,3
2.34	51 SB	KB2	1	0.408	1,2,3	2.45	82 PB	KB2	3	0.142	1,3
2.34	89 AC	KA1	3	0.136	1	2.46	74 W	KA2	2	0.214	1,2,3
2.34	70 YB	KB2	2	0.204	1,2,3	2.46	83 BI	KB3	3	0.143	1,2
2.36	95 AM	KB1	4	0.103	1	2.47	69 TM	KB1	2	0.215	1,2,3
2.36	94 PU	KB2	4	0.103	1	2.47	73 TA	KA1	2	0.215	1,2,3
2.38	83 BI	KB2	3	0.138	1,3	2.48	69 TM	KB3	2	0.216	1,2
2.38	84 PO	KB1	3	0.138	1	2.48	87 FR	KA1	3	0.144	1
2.38	51 SB	KB5	1	0.414	1	2.48	98 CF	KA1	4	0.108	1
2.38	90 TH	KA2	3	0.138	1,2,3	2.48	50 SN	KB5	1	0.432	1

MICA CRYSTAL, D# 9.980 ANGSTROMS							2.49 TO 2.67						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
2.49	53 I	KA1	1	0.433	1,2,3		2.58	80 HG	KB2	3	0.150	1	
2.49	68 ER	KB2	2	0.217	1,2,3		2.59	52 TE	KA1	1	0.451	1,2,3	
2.50	82 PB	KB5	3	0.145	1		2.59	49 IN	KB5	1	0.451	1	
2.50	50 SN	KB1	1	0.435	1,2,3		2.59	98 CF	KA2	4	0.113	1	
2.50	88 RA	KA2	3	0.145	1		2.60	81 TL	KB3	3	0.151	1,2	
2.50	92 U	KB2	4	0.109	1,2,3		2.61	72 HF	KA2	2	0.227	1,2,3	
2.50	93 NP	KB1	4	0.109	1		2.61	49 IN	KB1	1	0.455	1,2,3	
2.50	50 SN	KB3	1	0.436	1,2		2.61	49 IN	KB3	1	0.455	1,2	
2.51	81 TL	KB2	3	0.146	1		2.62	90 TH	KB2	4	0.114	1,3	
2.51	53 I	KA2	1	0.438	1,2,3		2.62	52 TE	KA2	1	0.456	1,2,3	
2.51	82 PB	KB1	3	0.146	1,2,3		2.62	91 PA	KB1	4	0.114	1	
2.53	73 TA	KA2	2	0.220	1,2,3		2.62	85 AT	KA1	3	0.152	1	
2.53	82 PB	KB3	3	0.147	1		2.62	96 CM	KA1	4	0.114	1	
2.55	92 U	KB1	4	0.111	1,2,3		2.63	71 LU	KA1	2	0.229	1,2,3	
2.55	97 BK	KA1	4	0.111	1		2.63	86 RN	KA2	3	0.153	1	
2.55	72 HF	KA1	2	0.222	1,2,3		2.64	67 HC	KB1	2	0.230	1	
2.55	86 RN	KA1	3	0.148	1		2.65	79 AU	KB4	3	0.154	1,2	
2.55	91 PA	KB2	4	0.111	1		2.65	80 HG	KB1	3	0.154	1	
2.55	49 IN	KB2	1	0.445	1,2,3		2.66	66 DY	KB2	2	0.232	1,2,3	
2.56	68 ER	KB3	2	0.223	1,2		2.66	90 TH	KB5	4	0.116	1,2	
2.56	68 ER	KB1	2	0.223	1,2,3		2.66	97 BK	KA2	4	0.116	1	
2.57	87 FR	KA2	3	0.149	1		2.67	79 AU	KB2	3	0.155	1,3	
2.57	67 HO	KB2	2	0.224	1		2.67	98 CF	KB2	5	0.093	1	
2.57	92 U	KB3	4	0.112	1,2		2.67	80 HG	KB3	3	0.155	1	
2.58	81 TL	KB1	3	0.150	1,2,3		2.67	48 CD	KB2	1	0.465	1,2,3	

MICA CRYSTAL, D# 9.980 ANGSTROMS							2.69 TO 2.85						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
2.69	90 TH	KB1	4	0.117	1,2,3		2.77	84 PC	KA2	3	0.161	1	
2.69	84 PO	KA1	3	0.156	1		2.77	83 BI	KA1	3	0.161	1,2,3	
2.69	71 LU	KA2	2	0.234	1,2,3		2.78	89 AC	KB1	4	0.121	1	
2.69	89 AC	KB2	4	0.117	1		2.78	98 CF	KB1	5	0.097	1	
2.69	95 AM	KA1	4	0.117	1		2.80	47 AG	KB2	1	0.487	1,2,3	
2.70	51 SB	KA1	1	0.470	1,2,3		2.80	95 AM	KA2	4	0.122	1	
2.70	85 AT	KA2	3	0.157	1		2.80	69 TM	KA1	2	0.244	1,2,3	
2.71	90 TH	KB3	4	0.118	1,2		2.81	78 PT	KB5	3	0.163	1	
2.72	70 YB	KA1	2	0.237	1,2,3		2.81	77 IR	KB4	3	0.163	1,2	
2.72	79 AU	KB5	3	0.158	1		2.81	97 BK	KB1	5	0.098	1	
2.72	66 DY	KB1	2	0.237	1,2,3		2.81	96 CM	KB2	5	0.098	1	
2.73	97 BK	KB2	5	0.095	1		2.82	50 SN	KA1	1	0.491	1,2,3	
2.73	51 SB	KA2	1	0.475	1,2,3		2.82	65 TB	KB1	2	0.246	1,2,3	
2.73	48 CD	KB1	1	0.475	1,2,3		2.82	78 PT	KB1	3	0.164	1,2,3	
2.73	96 CM	KA2	4	0.119	1		2.82	93 NP	KA1	4	0.123	1	
2.73	66 DY	KB3	2	0.238	1,2		2.82	78 PT	KB3	3	0.164	1,2	
2.73	48 CD	KB3	1	0.476	1,2		2.82	77 IR	KB2	3	0.164	1,3	
2.74	78 PT	KB2	3	0.159	1,3		2.82	65 TB	KB3	2	0.246	1,2	
2.74	79 AU	KB1	3	0.159	1,2,3		2.83	47 AG	KB5	1	0.493	1	
2.74	78 PT	KB4	3	0.159	1,2		2.84	82 PB	KA1	3	0.165	1,2,3	
2.76	88 RA	KB2	4	0.120	1		2.84	50 SN	KA2	1	0.495	1,2,3	
2.76	79 AU	KB3	3	0.160	1,2		2.85	87 FR	KB2	4	0.124	1	
2.76	94 PU	KA1	4	0.120	1		2.85	64 GC	KB2	2	0.248	1,2,3	
2.76	65 TB	KB2	2	0.243	1,2,3		2.85	88 RA	KB1	4	0.124	1	
2.77	70 YB	KA2	2	0.241	1,2,3		2.85	47 AG	KB1	1	0.497	1,2,3	

MICA CRYSTAL, D# 9.98C ANGSTROMS							2.86 TO 3.07						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
2.86	47 AG	KB3	1	0.498	1,2		2.96	98 CF	LY1	1	0.515	1	
2.86	69 TM	KA2	2	0.249	1,2,3		2.96	91 PA	KA1	4	0.129	1	
2.86	83 BI	KA2	3	0.166	1,2,3		2.97	46 PD	KB5	1	0.517	1	
2.87	95 AM	KB2	5	0.100	1		2.97	49 IN	KA2	1	0.517	1,2,3	
2.87	94 PU	KA2	4	0.125	1		2.99	46 PD	KB3	1	0.521	1,2	
2.88	77 IR	KB5	3	0.167	1		2.99	46 PD	KB1	1	0.521	1,2,3	
2.89	68 ER	KA1	2	0.252	1,2,3		3.00	76 OS	KB3	3	0.174	1,2	
2.89	92 U	KA1	4	0.126	1,2,3		3.00	67 HO	KA1	2	0.261	1,2,3	
2.90	96 CM	KB1	5	0.101	1		3.00	75 RE	KB2	3	0.174	1,3	
2.91	76 OS	KB2	3	0.169	1,3		3.00	76 OS	KB1	3	0.174	1,2,3	
2.91	77 IR	KB1	3	0.169	1,2,3		3.01	85 AT	KB2	4	0.131	1	
2.91	77 IR	KB3	3	0.169	1,2		3.01	86 RN	KB1	4	0.131	1	
2.92	64 GD	KB1	2	0.254	1,2,3		3.01	92 U	KA2	4	0.131	1,2,3	
2.92	86 RN	KB2	4	0.127	1		3.01	80 HG	KA1	3	0.175	1	
2.92	87 FR	KB1	4	0.127	1		3.01	93 NP	KB2	5	0.105	1	
2.93	81 TL	KA1	3	0.170	1,2,3		3.01	81 TL	KA2	3	0.175	1,2,3	
2.93	64 GD	KB3	2	0.255	1,2		3.03	63 EU	KB3	2	0.264	1,2	
2.93	46 PD	KB2	1	0.510	1,2,3		3.03	63 EU	KB1	2	0.264	1,2,3	
2.93	82 PB	KA2	3	0.170	1,2,3		3.04	94 PU	KB1	5	0.106	1	
2.94	93 NP	KA2	4	0.128	1		3.04	97 BK	LY1	1	0.530	1	
2.94	49 IN	KA1	1	0.512	1,2,3		3.05	62 SM	KB2	2	0.266	1,2,3	
2.95	68 ER	KA2	2	0.257	1,2,3		3.05	90 TH	KA1	4	0.133	1,2,3	
2.95	63 EU	KB2	2	0.257	1,2,3		3.05	67 HC	KA2	2	0.266	1,2,3	
2.96	95 AM	KB1	5	0.103	1		3.07	45 RH	KB2	1	0.535	1,2,3	
2.96	94 PU	KB2	5	0.103	1		3.07	48 CD	KA1	1	0.535	1,2,3	

MICA CRYSTAL, D# 9.98E ANGSTROMS						3.08 TO 3.26					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
3.08	91 PA	KA2	4	0.134	1	3.17	83 BI	KB2	4	0.138	1,3
3.08	85 AT	KB1	4	0.134	1	3.17	61 PM	KB2	2	0.276	1
3.08	84 PO	KB2	4	0.134	1	3.17	90 TH	KA2	4	0.138	1,2,3
3.08	75 RE	KB3	3	0.179	1,2	3.17	73 TA	KB4	3	0.184	1
3.08	74 W	KB2	3	0.179	1,2,3	3.19	73 TA	KB2	3	0.185	1,2,3
3.08	74 W	KB4	3	0.179	1	3.19	74 W	KB3	3	0.185	1,2
3.08	75 RE	KB1	3	0.179	1,2,3	3.19	79 AU	KA2	3	0.185	1,2,3
3.09	48 CD	KA2	1	0.539	1,2,3	3.19	92 U	KB1	5	0.111	1,2,3
3.10	79 AU	KA1	3	0.180	1,2,3	3.19	97 BK	KA1	5	0.111	1
3.10	66 DY	KA1	2	0.270	1,2,3	3.19	91 PA	KB2	5	0.111	1
3.10	80 HG	KA2	3	0.180	1	3.20	65 TB	KA1	2	0.279	1,2,3
3.10	98 CF	KA1	5	0.108	1	3.20	78 PT	KA1	3	0.186	1,2,3
3.11	45 RH	KB5	1	0.541	1	3.21	47 AG	KA1	1	0.559	1,2,3
3.12	89 AC	KA1	4	0.136	1	3.21	92 U	KB3	5	0.112	1,2
3.13	92 U	KB2	5	0.109	1,2,3	3.21	88 RA	KA1	4	0.140	1
3.13	93 NP	KB1	5	0.109	1	3.23	95 AM	LY1	1	0.562	1,3
3.13	45 RH	KB3	1	0.546	1,2	3.23	44 RU	KB2	1	0.562	1,2,3
3.13	62 SM	KB1	2	0.273	1,2,3	3.24	82 PB	KB4	4	0.141	1,2
3.13	45 RH	KB1	1	0.546	1,2,3	3.24	61 PM	KB1	2	0.282	1,2,3
3.13	96 CM	LY1	1	0.546	1	3.24	89 AC	KA2	4	0.141	1
3.15	62 SM	KB3	2	0.274	1,2	3.24	47 AG	KA2	1	0.564	1,2,3
3.15	66 DY	KA2	2	0.274	1,2,3	3.24	98 CF	KA2	5	0.113	1
3.15	74 W	KB5	3	0.183	1	3.25	65 TB	KA2	2	0.283	1,2,3
3.17	84 PO	KB1	4	0.138	1	3.25	61 PM	KB3	2	0.283	2
3.17	74 W	KB1	3	0.184	1,2,3	3.26	73 TA	KB5	3	0.189	1

MICA CRYSTAL, D# 9.980 ANGSTROMS							3.26 TO 3.43						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
3.26	82 PB	KB2	4	0.142	1,3		3.36	89 AC	KB2	5	0.117	1	
3.26	44 RU	KB5	1	0.568	1		3.36	46 PC	KA1	1	0.585	1,2,3	
3.26	83 BI	KB1	4	0.142	1,2,3		3.36	90 TH	KB1	5	0.117	1,2,3	
3.27	73 TA	KB1	3	0.190	1,2,3		3.36	64 GC	KA2	2	0.293	1,2,3	
3.27	90 TH	KB2	5	0.114	1,3		3.36	60 ND	KB1	2	0.293	1,2,3	
3.27	91 PA	KB1	5	0.114	1		3.38	60 ND	KB3	2	0.294	1,2	
3.27	78 PT	KA2	3	0.190	1,2,3		3.38	82 PB	KB3	4	0.147	1	
3.27	96 CM	KA1	5	0.114	1		3.38	72 HF	KB3	3	0.196	1,2	
3.28	60 ND	KB2	2	0.286	1,2,3		3.38	77 IR	KA2	3	0.196	1,2,3	
3.28	44 RU	KB1	1	0.572	1,2,3		3.38	72 HF	KB1	3	0.196	1,2,3	
3.28	83 BI	KB3	4	0.143	1,2		3.39	43 TC	KB4	1	0.590	1	
3.29	73 TA	KB3	3	0.191	1,2		3.39	90 TH	KB3	5	0.118	1,2	
3.29	44 RU	KB3	1	0.573	1,2		3.39	43 TC	KB2	1	0.590	1	
3.29	77 IR	KA1	3	0.191	1,2,3		3.39	46 PC	KA2	1	0.590	1,2,3	
3.29	72 HF	KB2	3	0.191	1,2,3		3.39	76 OS	KA1	3	0.197	1,2,3	
3.31	64 GC	KA1	2	0.288	1,2,3		3.39	71 LU	KB2	3	0.197	1,2,3	
3.31	87 FR	KA1	4	0.144	1		3.40	86 RN	KA1	4	0.148	1	
3.32	94 PU	LY1	1	0.579	1		3.41	91 PA	LY4	1	0.594	1,2	
3.33	90 TH	KB5	5	0.116	1,2		3.41	59 PR	KB2	2	0.297	1,2,3	
3.33	88 RA	KA2	4	0.145	1		3.42	96 CM	KA2	5	0.119	1	
3.33	97 BK	KA2	5	0.116	1		3.42	92 U	LY6	1	0.595	1,2	
3.33	82 PB	KB5	4	0.145	1		3.42	87 FR	KA2	4	0.149	1	
3.35	82 PB	KB1	4	0.146	1,2,3		3.43	93 NP	LY1	1	0.597	1,2,3	
3.35	81 TL	KB2	4	0.146	1		3.43	92 U	LY3	1	0.598	1,2,3	
3.36	95 AM	KA1	5	0.117	1		3.43	63 EU	KA1	2	0.299	1,2,3	

MICA CRYSTAL, D# 9.980 ANGSTROMS						3.44 TO 3.62					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
3.44	81 TL	KB1	4	0.150	1,2,3	3.53	92 U	LY1	1	0.615	1,2,3
3.44	88 RA	KB2	5	0.120	1	3.54	80 HG	KB1	4	0.154	1
3.44	80 HG	KB2	4	0.150	1	3.54	58 CE	KB2	2	0.308	1,2,3
3.44	94 PU	KA1	5	0.120	1	3.54	79 AU	KB4	4	0.154	1,2
3.45	43 TC	KB3	1	0.601	1,2	3.54	91 PA	LY3	1	0.617	1,2,3
3.46	43 TC	KB1	1	0.602	1,2,3	3.55	62 SM	KA1	2	0.309	1,2,3
3.46	98 CF	LB1	1	0.603	1	3.55	45 RH	KA2	1	0.618	1,2,3
3.47	81 TL	KB3	4	0.151	1,2	3.56	88 RA	KB1	5	0.124	1
3.47	92 U	LY2	1	0.605	1,2,3	3.56	79 AU	KB2	4	0.155	1,3
3.47	89 AC	KB1	5	0.121	1	3.56	42 MC	KB4	1	0.620	2
3.48	63 EU	KA2	2	0.303	1,2,3	3.56	87 FK	KB2	5	0.124	1
3.48	71 LU	KB1	3	0.202	1,2,3	3.56	80 HG	KB3	4	0.155	1
3.48	76 OS	KA2	3	0.202	1,2,3	3.57	42 MC	KB2	1	0.621	1,2,3
3.49	59 PR	KB1	2	0.304	1,2,3	3.57	97 BK	LB1	1	0.621	1
3.49	85 AT	KA1	4	0.152	1	3.58	84 PO	KA1	4	0.156	1
3.50	71 LU	KB3	3	0.203	1,2	3.58	91 PA	LY2	1	0.624	1,2,3
3.50	75 RE	KA1	3	0.203	1,2,3	3.58	75 RE	KA2	3	0.208	1,2,3
3.50	59 PR	KB3	2	0.305	1,2	3.59	94 PU	KA2	5	0.125	1
3.50	95 AM	KA2	5	0.122	1	3.60	70 YB	KB3	3	0.209	1,2
3.51	90 TH	LY4	1	0.511	1,2	3.60	74 W	KA1	3	0.209	1,2,3
3.51	86 RN	KA2	4	0.153	1	3.60	42 MO	KB5	1	0.627	1
3.51	70 YB	KB2	3	0.204	1,2,3	3.60	70 YB	KB1	3	0.209	1,2,3
3.52	45 RH	KA1	1	0.613	1,2,3	3.61	62 SM	KA2	2	0.314	1,2,3
3.52	91 PA	LY6	1	0.613	1,2	3.61	85 AT	KA2	4	0.157	1
3.53	93 NP	KA1	5	0.123	1	3.62	92 U	KA1	5	0.126	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS							3.62 TO 3.79						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
3.62	69 TM	KB2	3	0.210	1		3.70	73 TA	KA1	3	0.215	1,2,3	
3.63	58 CE	KB1	2	0.316	1,2,3		3.70	91 PA	KA1	5	0.129	1	
3.63	90 TH	LY6	1	0.632	1,2		3.70	69 TM	KB1	3	0.215	1,2,3	
3.63	42 MO	KB1	1	0.632	1,2,3		3.71	44 RU	KA2	1	0.647	1,2,3	
3.63	79 AU	KB5	4	0.158	1		3.72	69 TM	KB3	3	0.216	1,2	
3.63	58 CE	KB3	2	0.316	1,2		3.73	88 RA	LY4	1	0.649	1,2	
3.63	42 MO	KB3	1	0.633	1,2		3.73	61 PM	KA2	2	0.325	1,2,3	
3.64	91 PA	LY1	1	0.634	1,2,3		3.74	68 ER	KB2	3	0.217	1,2,3	
3.65	92 U	LY5	1	0.635	1,2		3.74	77 IR	KB4	4	0.163	1,2	
3.65	86 RN	KB2	5	0.127	1		3.74	57 LA	KB5	2	0.326	1	
3.65	87 FR	KB1	5	0.127	1		3.74	78 PT	KB5	4	0.163	1	
3.65	79 AU	KB1	4	0.159	1,2,3		3.75	98 CF	LB2	1	0.653	1	
3.65	78 PT	KB2	4	0.159	1,3		3.75	90 TH	LY1	1	0.653	1,2,3	
3.65	90 TH	LY3	1	0.636	1,2,3		3.75	41 NB	KB2	1	0.654	1,2,3	
3.65	78 PT	KB4	4	0.159	1,2		3.76	85 AT	KB2	5	0.131	1	
3.67	96 CM	LB1	1	0.639	1		3.76	86 RN	KB1	5	0.131	1	
3.67	93 NP	KA2	5	0.128	1		3.76	91 PA	LY5	1	0.655	1,2	
3.67	57 LA	KB2	2	0.320	1,2,3		3.76	92 U	KA2	5	0.131	1,2,3	
3.67	79 AU	KB3	4	0.160	1,2		3.77	57 LA	KB1	2	0.328	1,2,3	
3.69	90 TH	LY2	1	0.642	1,2,3		3.77	78 PT	KB3	4	0.164	1,2	
3.69	74 W	KA2	3	0.214	1,2,3		3.77	78 PT	KB1	4	0.164	1,2,3	
3.69	61 PM	KA1	2	0.321	1,2,3		3.77	77 IR	KB2	4	0.164	1,3	
3.69	44 RU	KA1	1	0.643	1,2,3		3.78	95 AM	LB1	1	0.658	1,3	
3.70	83 BI	KA1	4	0.161	1,2,3		3.78	57 LA	KB3	2	0.329	1,2	
3.70	84 PO	KA2	4	0.161	1		3.79	73 TA	KA2	3	0.220	1,2,3	

MICA CRYSTAL, D# 9.980 ANGSTROMS						3.79 TO 4.00					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
3.79	82 FB	KA1	4	0.165	1,2,3	3.88	43 TC	KA2	1	0.676	2,3
3.79	41 NB	KB5	1	0.660	1	3.88	77 IR	KB1	4	0.169	1,2,3
3.81	60 ND	KA1	2	0.332	1,2,3	3.88	76 OS	KB2	4	0.169	1,3
3.81	83 BI	KA2	4	0.166	1,2,3	3.89	94 PU	LB1	1	0.678	1
3.82	90 TH	KA1	5	0.133	1,2,3	3.90	82 PB	KA2	4	0.170	1,2,3
3.82	41 NB	KB1	1	0.666	1,2,3	3.90	89 AC	KA1	5	0.136	1
3.82	56 BA	KB2	2	0.333	1,2,3	3.90	81 TL	KA1	4	0.170	1,2,3
3.82	72 HF	KA1	3	0.222	1,2,3	3.91	72 HF	KA2	3	0.227	1,2,3
3.82	41 NB	KB3	1	0.666	1,2	3.91	92 U	LB9	1	0.681	1,2
3.84	77 IR	KB5	4	0.167	1	3.92	56 BA	KB3	2	0.341	1,2
3.84	68 ER	KB1	3	0.223	1,2,3	3.92	56 BA	KB1	2	0.341	1,2,3
3.84	97 BK	LB2	1	0.669	1	3.92	88 RA	LY2	1	0.682	1,2,3
3.84	68 ER	KB3	3	0.223	1,2	3.93	96 CM	LB2	1	0.685	1
3.85	85 AT	KB1	5	0.134	1	3.94	71 LU	KA1	3	0.229	1,2,3
3.85	84 PO	KB2	5	0.134	1	3.94	92 U	LB10	1	0.687	1,2
3.85	91 PA	KA2	5	0.134	1	3.95	59 PR	KA1	2	0.344	1,2,3
3.86	67 HO	KB2	3	0.224	1	3.96	40 ZR	KB2	1	0.690	1,2,3
3.86	60 ND	KA2	2	0.336	1,2,3	3.96	83 BI	KB2	5	0.138	1,3
3.86	88 RA	LY6	1	0.673	1,2	3.96	84 PO	KB1	5	0.138	1
3.86	43 TC	KA1	1	0.673	2,3	3.96	67 HO	KB1	3	0.230	1
3.87	89 AC	LY1	1	0.674	1	3.96	90 TH	KA2	5	0.138	1,2,3
3.88	90 TH	LY5	1	0.675	1,2	3.97	55 CS	KB2	2	0.346	1,2,3
3.88	88 RA	LY3	1	0.675	1,2,3	3.99	88 RA	LY1	1	0.695	1,2,3
3.88	56 BA	KB5	2	0.338	1	4.00	66 DY	KB2	3	0.232	1,2,3
3.88	77 IR	KB3	4	0.169	1,2	4.00	75 RE	KB2	4	0.174	1,3

MICA CRYSTAL, D# 9.980 ANGSTROMS							4.00 TO 4.19						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
4.00	40 ZR	KB5	1	0.696	1		4.10	58 CE	KA1	2	0.357	1,2,3	
4.00	76 OS	KB1	4	0.174	1,2,3		4.10	66 DY	KB3	3	0.238	1,2	
4.00	76 OS	KB3	4	0.174	1,2		4.11	83 BI	KB3	5	0.143	1,2	
4.01	93 NP	LB1	1	0.698	1,2,3		4.11	75 RE	KB1	4	0.179	1,2,3	
4.01	59 PR	KA2	2	0.349	1,2,3		4.11	74 W	KB4	4	0.179	1	
4.02	81 TL	KA2	4	0.175	1,2,3		4.11	74 W	KB2	4	0.179	1,2,3	
4.02	80 HG	KA1	4	0.175	1		4.11	75 RE	KB3	4	0.179	1,2	
4.02	88 RA	KA1	5	0.140	1		4.11	87 FR	LY1	1	0.716	1,2,3	
4.02	95 AM	LB2	1	0.701	1,3		4.12	88 RA	LY5	1	0.717	1,2	
4.02	91 PA	LB9	1	0.701	1,2		4.12	94 PU	LB2	1	0.718	1	
4.03	40 ZR	KB3	1	0.702	1,2		4.13	87 FR	KA1	5	0.144	1	
4.03	71 LU	KA2	3	0.234	1,2,3		4.13	80 HG	KA2	4	0.180	1	
4.03	40 ZR	KB1	1	0.702	1,2,3		4.13	92 U	LB1	1	0.720	1,2,3	
4.05	82 PB	KB4	5	0.141	1,2		4.13	65 TB	KB2	3	0.240	1,2,3	
4.05	89 AC	KA2	5	0.141	1		4.13	54 XE	KB2	2	0.360	1,2,3	
4.07	55 CS	KB1	2	0.354	1,2,3		4.13	79 AU	KA1	4	0.180	1,2,3	
4.07	91 PA	LB10	1	0.708	1,2		4.15	70 YB	KA2	3	0.241	1,2,3	
4.07	42 MO	KA1	1	0.709	1,2,3		4.15	90 TH	LB9	1	0.723	1,2	
4.08	92 U	LB3	1	0.710	1,2,3		4.16	58 CE	KA2	2	0.362	1,2,3	
4.08	82 PB	KB2	5	0.142	1,3		4.16	88 RA	KA2	5	0.145	1	
4.08	83 BI	KB1	5	0.142	1,2,3		4.16	82 PB	KB5	5	0.145	1	
4.08	55 CS	KB3	2	0.355	1,2		4.17	92 U	LB5	1	0.726	1,2	
4.08	70 YB	KA1	3	0.237	1,2,3		4.17	39 Y	KB4	1	0.727	2	
4.08	66 DY	KB1	3	0.237	1,2,3		4.19	39 Y	KB2	1	0.729	1,2,3	
4.09	42 MO	KA2	1	0.713	1,2,3		4.19	90 TH	LB10	1	0.730	1,2	

MICA CRYSTAL, D# 9.980 ANGSTROMS							4.19 TO 4.39						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
4.19	82 PB	KB1	5	0.146	1,2,3		4.28	91 PA	LB5	1	0.745	1,2	
4.19	81 TL	KB2	5	0.146	1		4.28	87 FR	KA2	5	0.149	1	
4.20	91 PA	LB3	1	0.732	1,2,3		4.28	41 NB	KA1	1	0.746	1,2,3	
4.20	74 W	KB5	4	0.183	1		4.29	69 TM	KA2	3	0.249	1,2,3	
4.20	69 TM	KA1	3	0.244	1,2,3		4.29	92 U	LB4	1	0.748	1,2,3	
4.21	39 Y	KB5	1	0.734	1		4.31	80 HG	KB2	5	0.150	1	
4.22	82 PB	KB3	5	0.147	1		4.31	57 LA	KA2	2	0.375	1,2,3	
4.23	54 XE	KB1	2	0.368	1,2,3		4.31	81 TL	KB1	5	0.150	1,2,3	
4.23	74 W	KB1	4	0.184	1,2,3		4.31	41 NB	KA2	1	0.750	1,2,3	
4.23	92 U	LB7	1	0.736	1,2		4.31	53 I	KB2	2	0.375	1,2,3	
4.23	93 HP	LB2	1	0.736	1,2,3		4.34	81 TL	KB3	5	0.151	1,2	
4.23	73 TA	KB4	4	0.184	1		4.34	90 TH	LB3	1	0.755	1,2,3	
4.24	65 TB	KB3	3	0.246	1,2		4.34	91 PA	LB7	1	0.755	1,2	
4.24	65 TB	KB1	3	0.246	1,2,3		4.34	92 U	LB2	1	0.755	1,2,3	
4.24	86 RN	LY1	1	0.739	1		4.34	68 ER	KA1	3	0.252	1,2,3	
4.25	86 RN	KA1	5	0.148	1		4.34	73 TA	KB5	4	0.189	1	
4.25	73 TA	KB2	4	0.185	1,2,3		4.36	78 PT	KA2	4	0.190	1,2,3	
4.25	74 W	KB3	4	0.185	1,2		4.36	85 AT	KA1	5	0.152	1	
4.25	79 AU	KA2	4	0.185	1,2,3		4.36	73 TA	KB1	4	0.190	1,2,3	
4.25	39 Y	KB3	1	0.741	1,2		4.37	83 BI	LY4	1	0.761	1,2	
4.25	39 Y	KB1	1	0.741	1,2,3		4.38	64 GD	KB1	3	0.254	1,2,3	
4.26	57 LA	KA1	2	0.371	1,2,3		4.38	85 AT	LY1	1	0.763	1	
4.26	91 PA	LB1	1	0.742	1,2,3		4.39	84 PC	LY3	1	0.764	1,2,3	
4.27	78 PT	KA1	4	0.186	1,2,3		4.39	73 TA	KB3	4	0.191	1,2	
4.27	64 GD	KB2	3	0.248	1,2,3		4.39	84 PC	LY6	1	0.764	1,2	

MICA CRYSTAL, D# 9.98E ANGSTROMS							4.39 TO 4.56						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
4.39	72 HF	KB2	4	0.191	1,2,3		4.50	67 HO	KA1	3	0.261	1,2,3	
4.39	77 IR	KA1	4	0.191	1,2,3		4.50	38 SR	KB1	1	0.783	1,2,3	
4.39	86 RN	KA2	5	0.153	1		4.50	38 SR	KB3	1	0.783	1,2	
4.39	90 TH	LB1	1	0.765	1,2,3		4.50	72 HF	KB1	4	0.196	1,2,3	
4.39	90 TH	LB5	1	0.765	1,2		4.50	77 IR	KA2	4	0.196	1,2,3	
4.39	64 GD	KB3	3	0.255	1,2		4.50	72 HF	KB3	4	0.196	1,2	
4.41	53 I	KB1	2	0.384	1,2,3		4.51	85 AT	KA2	5	0.157	1	
4.42	88 RA	LB9	1	0.769	1,2		4.51	40 ZR	KA1	1	0.786	1,2,3	
4.42	56 BA	KA1	2	0.385	1,2,3		4.51	82 PB	LY4	1	0.786	1	
4.42	80 HG	KB1	5	0.154	1		4.52	84 PO	LY1	1	0.787	1,2,3	
4.42	91 PA	LB4	1	0.770	1,2,3		4.52	71 LU	KB2	4	0.197	1,2,3	
4.42	79 AU	KB4	5	0.154	1,2		4.52	76 OS	KA1	4	0.197	1,2,3	
4.42	53 I	KB3	2	0.385	1,2		4.52	92 U	LB6	1	0.788	1,2,3	
4.43	63 EU	KB2	3	0.257	1,2,3		4.53	83 BI	LY3	1	0.789	1,2,3	
4.43	68 ER	KA2	3	0.257	1,2,3		4.53	89 AC	LB1	1	0.789	1	
4.43	38 SR	KB2	1	0.771	1,2,3		4.54	83 BI	LY6	1	0.790	1,2	
4.44	91 PA	LB2	1	0.774	1,2,3		4.54	40 ZR	KA2	1	0.790	1,2,3	
4.44	90 TH	LB7	1	0.774	1,2		4.54	79 AU	KB5	5	0.158	1	
4.45	38 SR	KB5	1	0.775	1		4.55	63 EU	KB3	3	0.264	1,2	
4.45	80 HG	KB3	5	0.155	1		4.55	98 CF	LA1	1	0.792	1	
4.45	79 AU	KB2	5	0.155	1,3		4.55	63 EU	KB1	3	0.264	1,2,3	
4.45	88 RA	LB10	1	0.775	1,2		4.55	90 TH	LB4	1	0.793	1,2,3	
4.48	84 PO	KA1	5	0.156	1		4.56	90 TH	LB2	1	0.794	1,2,3	
4.48	56 BA	KA2	2	0.390	1,2,3		4.56	78 PT	KB4	5	0.159	1,2	
4.49	52 TE	KB2	2	0.391	1,2,3		4.56	79 AU	KB1	5	0.159	1,2,3	

MICA CRYSTAL, D# 9.980 ANGSTROMS							4.56 TO 4.76						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
4.56	78 PT	KB2	5	0.159	1,3		4.67	89 AC	LB2	1	0.814	1	
4.57	83 BI	LY2	1	0.796	1,2,3		4.68	77 IR	KB4	5	0.163	1,2	
4.58	67 HO	KA2	3	0.266	1,2,3		4.68	82 PB	LY3	1	0.815	1,2,3	
4.58	62 SM	KB2	3	0.266	1,2,3		4.68	78 PT	KB5	5	0.163	1	
4.59	79 AU	KB3	5	0.160	1,2		4.69	70 YB	KB2	4	0.204	1,2,3	
4.59	52 TE	KB1	2	0.400	1,2,3		4.69	88 RA	LB7	1	0.816	1,2	
4.59	55 CS	KA1	2	0.400	1,2,3		4.69	51 SB	KB2	2	0.408	1,2,3	
4.61	52 TE	KB3	2	0.401	1,2		4.69	37 RB	KB2	1	0.816	1,2,3	
4.61	88 RA	LB3	1	0.803	1,2,3		4.69	82 PB	LY6	1	0.817	1,2	
4.62	98 CF	LA2	1	0.804	1		4.70	62 SM	KB1	3	0.273	1,2,3	
4.62	83 BI	KA1	5	0.161	1,2,3		4.71	77 IR	KB2	5	0.164	1,3	
4.62	92 U	LN	1	0.805	1,2,3		4.71	78 PT	KB3	5	0.164	1,2	
4.62	84 PO	KA2	5	0.161	1		4.71	78 PT	KB1	5	0.164	1,2,3	
4.63	88 RA	LB5	1	0.806	1,2		4.71	82 PB	LY2	1	0.821	1,2,3	
4.64	91 PA	LB6	1	0.808	1,2,3		4.72	97 BK	LA2	1	0.822	1	
4.64	76 OS	KA2	4	0.202	1,2,3		4.72	66 DY	KA2	3	0.274	1,2,3	
4.64	71 LU	KB1	4	0.202	1,2,3		4.72	37 RB	KB5	1	0.822	1	
4.65	55 CS	KA2	2	0.405	1,2,3		4.72	62 SM	KB3	3	0.274	1,2	
4.65	66 DY	KA1	3	0.270	1,2,3		4.74	82 PB	KA1	5	0.165	1,2,3	
4.65	97 BK	LA1	1	0.810	1		4.75	61 PM	KB2	3	0.276	1	
4.66	81 TL	LY4	1	0.812	1,2		4.75	90 TH	LB6	1	0.828	1,2,3	
4.66	75 RE	KA1	4	0.203	1,2,3		4.75	51 SB	KB5	2	0.414	1	
4.66	71 LU	KB3	4	0.203	1,2		4.76	37 RB	KB1	1	0.829	1,2,3	
4.67	83 BI	LY1	1	0.813	1,2,3		4.76	96 CM	LA1	1	0.829	1	
4.67	88 RA	LB1	1	0.814	1,2,3		4.76	37 RB	KB3	1	0.829	1,2	

MICA CRYSTAL, D# 9.980 ANGSTROMS						4.76 TO 4.97					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
4.76	91 PA	LN	1	0.829	1,2,3	4.85	77 IR	KB1	5	0.169	1,2,3
4.76	39 Y	KA1	1	0.829	1,2,3	4.85	77 IR	KB3	5	0.169	1,2
4.77	83 BI	KA2	5	0.166	1,2,3	4.86	61 PM	KB1	3	0.282	1,2,3
4.78	54 XE	KA1	2	0.416	1,2,3	4.87	81 TL	LY2	1	0.848	1,2,3
4.78	75 RE	KA2	4	0.208	1,2,3	4.87	95 AM	LA1	1	0.848	1,3
4.78	39 Y	KA2	1	0.833	1,2,3	4.88	65 TB	KA2	3	0.283	1,2,3
4.79	51 SB	KB1	2	0.417	1,2,3	4.88	61 PM	KB3	3	0.283	2
4.79	88 RA	LB2	1	0.835	1,2,3	4.88	81 TL	KA1	5	0.170	1,2,3
4.79	77 IR	KB5	5	0.167	1	4.88	82 PB	KA2	5	0.170	1,2,3
4.80	70 YB	KB3	4	0.209	1,2	4.89	50 SN	KB2	2	0.426	1,2,3
4.80	51 SB	KB3	2	0.418	1,2	4.90	90 TH	LN	1	0.854	1,2,3
4.80	70 YB	KB1	4	0.209	1,2,3	4.92	74 W	KA2	4	0.214	1,2,3
4.80	74 W	KA1	4	0.209	1,2,3	4.93	87 FR	LB2	1	0.858	1,2,3
4.81	65 TB	KA1	3	0.279	1,2,3	4.93	60 ND	KB2	3	0.286	1,2,3
4.82	80 HG	LY4	1	0.839	1,2	4.94	95 AM	LA2	1	0.860	1,3
4.82	83 BI	LY5	1	0.839	1,2	4.94	73 TA	KA1	4	0.215	1,2,3
4.82	54 XE	KA2	2	0.420	1,2,3	4.94	69 TM	KB1	4	0.215	1,2,3
4.82	69 TM	KB2	4	0.210	1	4.96	64 GD	KA1	3	0.288	1,2,3
4.82	82 PB	LY1	1	0.840	1,2,3	4.96	50 SN	KB5	2	0.432	1
4.82	87 FR	LB1	1	0.840	1,2,3	4.96	69 TM	KB3	4	0.216	1,2
4.83	81 TL	LY3	1	0.841	1,2,3	4.97	36 KR	KB4	1	0.866	2
4.83	88 RA	LB4	1	0.841	1,2,3	4.97	82 PB	LY5	1	0.866	1,2
4.83	96 CM	LA2	1	0.841	1	4.97	36 KR	KB2	1	0.866	1,2,3
4.85	81 TL	LY6	1	0.844	1,2	4.97	86 RN	LB1	1	0.866	1
4.85	76 OS	KB2	5	0.169	1,3	4.97	53 I	KA1	2	0.433	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS							4.98 TO 5.18						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
4.98	94 PU	LA1	1	0.868	1		5.06	60 ND	KB3	3	0.294	1,2	
4.98	81 TL	LY1	1	0.868	1,2,3		5.10	72 HF	KA1	4	0.222	1,2,3	
4.98	68 ER	KB2	4	0.217	1,2,3		5.10	93 NP	LA1	1	0.889	1,2,3	
4.99	80 HG	LY3	1	0.869	1,2,3		5.11	49 IN	KB2	2	0.445	1,2,3	
5.00	75 RE	KB2	5	0.174	1,3		5.12	59 PR	KB2	3	0.297	1,2,3	
5.00	76 OS	KB3	5	0.174	1,2		5.12	68 ER	KB1	4	0.223	1,2,3	
5.00	76 OS	KB1	5	0.174	1,2,3		5.12	68 ER	KB3	4	0.223	1,2	
5.00	50 SN	KB1	2	0.435	1,2,3		5.13	85 AT	LB1	1	0.894	1	
5.00	88 RA	LB6	1	0.871	1,2,3		5.14	75 RE	KB3	5	0.179	1,2	
5.00	36 KR	KB5	1	0.871	1,2		5.14	81 TL	LY5	1	0.895	1,2	
5.01	50 SN	KB3	2	0.436	1,2		5.14	75 RE	KB1	5	0.179	1,2,3	
5.01	80 HG	LY6	1	0.873	1,2		5.14	74 W	KB2	5	0.179	1,2,3	
5.02	80 HG	LY2	1	0.875	1,2,3		5.14	74 W	KB4	5	0.179	1	
5.02	81 TL	KA2	5	0.175	1,2,3		5.15	67 HC	KB2	4	0.224	1	
5.02	38 SR	KA1	1	0.875	1,2,3		5.15	63 EU	KA1	3	0.299	1,2,3	
5.02	80 HG	KA1	5	0.175	1		5.15	78 PT	LY4	1	0.897	1,2	
5.03	53 I	KA2	2	0.438	1,2,3		5.15	80 HG	LY1	1	0.897	1,2,3	
5.04	36 KR	KB1	1	0.878	1,2,3		5.16	79 AU	LY3	1	0.898	1,2,3	
5.05	38 SR	KA2	1	0.879	1,2,3		5.16	83 BI	LB9	1	0.898	1,2	
5.05	36 KR	KB3	1	0.879	1,2		5.16	84 PC	LB5	1	0.899	1,2	
5.05	60 ND	KB1	3	0.293	1,2,3		5.17	79 AU	KA1	5	0.180	1,2,3	
5.05	64 GO	KA2	3	0.293	1,2,3		5.17	80 HG	KA2	5	0.180	1	
5.05	73 TA	KA2	4	0.220	1,2,3		5.17	93 NP	LA2	1	0.901	1	
5.05	94 PU	LA2	1	0.880	1		5.18	52 TE	KA1	2	0.451	1,2,3	
5.06	86 RN	LB2	1	0.881	1		5.18	49 IN	KB5	2	0.451	1	

MICA CRYSTAL, D# 9.98E ANGSTROMS							5.19 TO 5.40						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
5.19	79 AU	LY6	1	0.903	1,2		5.31	74 W	KB3	5	0.185	1,2	
5.19	79 AU	LY2	1	0.904	1,2,3		5.31	79 AU	KA2	5	0.185	1,2,3	
5.20	85 AT	LB2	1	0.905	1		5.31	35 BR	KB5	1	0.925	1,2	
5.20	83 BI	LB10	1	0.905	1,2		5.32	83 BI	LB5	1	0.926	1,2	
5.21	88 RA	LN	1	0.907	1,2,3		5.32	37 RB	KA1	1	0.926	1,2,3	
5.21	72 HF	KA2	4	0.227	1,2,3		5.32	82 PB	LB9	1	0.927	1,2	
5.22	84 PO	LB3	1	0.909	1,2,3		5.32	77 IR	LY4	1	0.927	1,2	
5.22	63 EU	KA2	3	0.303	1,2,3		5.32	79 AU	LY1	1	0.927	1,2,3	
5.23	49 IN	KB3	2	0.455	1,2		5.32	62 SM	KA1	3	0.309	1,2,3	
5.23	49 IN	KB1	2	0.455	1,2,3		5.33	66 DY	KB2	4	0.232	1,2,3	
5.23	92 U	LA1	1	0.911	1,2,3		5.33	78 PT	LY3	1	0.928	1,2,3	
5.24	59 PR	KB1	3	0.304	1,2,3		5.33	84 PO	LB2	1	0.929	1,2,3	
5.24	52 TE	KA2	2	0.456	1,2,3		5.34	48 CD	KB2	2	0.465	1,2,3	
5.25	74 W	KB5	5	0.183	1		5.34	78 PT	KA1	5	0.186	1,2,3	
5.25	59 PR	KB3	3	0.305	1,2		5.34	37 RB	KA2	1	0.930	1,2,3	
5.26	71 LU	KA1	4	0.229	1,2,3		5.36	35 BR	KB1	1	0.933	1,2,3	
5.28	67 HO	KB1	4	0.230	1		5.36	35 BR	KB3	1	0.933	1,2	
5.28	74 W	KB1	5	0.184	1,2,3		5.36	91 PA	LA1	1	0.933	1,2,3	
5.28	73 TA	KB4	5	0.184	1		5.36	78 PT	LY2	1	0.934	1,2,3	
5.29	35 BR	KB2	1	0.921	1,2,3		5.36	82 PB	LB10	1	0.934	1,2	
5.29	92 U	LA2	1	0.922	1,2,3		5.36	78 PT	LY6	1	0.934	1,2	
5.29	84 PO	LB1	1	0.922	1,2,3		5.37	83 BI	LB7	1	0.935	1,2	
5.31	58 CE	KB2	3	0.308	1,2,3		5.38	71 LU	KA2	4	0.234	1,2,3	
5.31	80 HG	LY5	1	0.924	1,2		5.39	83 BI	LB3	1	0.939	1,2,3	
5.31	73 TA	KB2	5	0.185	1,2,3		5.40	51 SB	KA1	2	0.470	1,2,3	

MICA CRYSTAL, D# 9.980 ANGSTROMS							5.41 TO 5.64						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
5.41	62 SM	KA2	3	0.314	1,2,3		5.51	76 OS	LY4	1	0.959	1,2	
5.43	91 PA	LA2	1	0.945	1,2,3		5.51	57 LA	KB2	3	0.320	1,2,3	
5.43	73 TA	KB5	5	0.189	1		5.51	65 TB	KB2	4	0.240	1,2,3	
5.44	84 PO	LB4	1	0.947	1,2,3		5.52	82 PB	LB7	1	0.962	1,2	
5.44	58 CE	KB1	3	0.316	1,2,3		5.53	61 PM	KA1	3	0.321	1,2,3	
5.44	58 CE	KB3	3	0.316	1,2		5.54	81 TL	LB10	1	0.964	1,2	
5.44	66 DY	KB1	4	0.237	1,2,3		5.54	70 YB	KA2	4	0.241	1,2,3	
5.44	70 YB	KA1	4	0.237	1,2,3		5.54	77 IR	LY2	1	0.965	1,2,3	
5.46	51 SB	KA2	2	0.475	1,2,3		5.55	84 PC	LB6	1	0.967	1,2,3	
5.46	48 CD	KB1	2	0.475	1,2,3		5.55	77 IR	LY6	1	0.967	1,2	
5.46	78 PT	KA2	5	0.190	1,2,3		5.56	90 TH	LA2	1	0.968	1,2,3	
5.46	73 TA	KB1	5	0.190	1,2,3		5.56	82 PB	LB3	1	0.969	1,2,3	
5.47	83 BI	LB1	1	0.952	1,2,3		5.59	47 AG	KB2	2	0.487	1,2,3	
5.47	66 CY	KB3	4	0.238	1,2		5.60	61 PM	KA2	3	0.325	1,2,3	
5.47	48 CD	KB3	2	0.476	1,2		5.61	69 TM	KA1	4	0.244	1,2,3	
5.47	82 PB	LB5	1	0.953	1,2		5.61	83 BI	LB4	1	0.977	1,2,3	
5.48	77 IR	KA1	5	0.191	1,2,3		5.62	57 LA	KB5	3	0.326	1	
5.48	83 BI	LB2	1	0.955	1,2,3		5.63	89 AC	LA1	1	0.980	1	
5.48	72 HF	KB2	5	0.191	1,2,3		5.63	72 HF	KB3	5	0.196	1,2	
5.48	73 TA	KB3	5	0.191	1,2		5.63	72 HF	KB1	5	0.196	1,2,3	
5.49	79 AU	LY5	1	0.956	1,2		5.63	34 SE	KB2	1	0.980	1,2,3	
5.49	90 TH	LA1	1	0.956	1,2,3		5.63	77 IR	KA2	5	0.196	1,2,3	
5.50	81 TL	LB9	1	0.957	1,2		5.63	36 KR	KA1	1	0.980	1,2,3	
5.50	78 PT	LY1	1	0.958	1,2,3		5.63	81 TL	LB5	1	0.981	1,2	
5.51	77 IR	LY3	1	0.959	1,2,3		5.64	50 SN	KA1	2	0.491	1,2,3	

MICA CRYSTAL, D# 9.980 ANGSTROMS							5.64 TO 5.86						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
5.64	82 PB	LB1	1	0.982	1,2,3		5.72	47 AG	KB3	2	0.498	1,2	
5.65	82 PB	LB2	1	0.983	1,2,3		5.72	80 HG	LB10	1	0.996	1,2	
5.65	65 TB	KB3	4	0.246	1,2		5.72	69 TM	KA2	4	0.249	1,2,3	
5.65	65 TB	KB1	4	0.246	1,2,3		5.73	76 OS	LY2	1	0.998	1,2,3	
5.65	34 SE	KB5	1	0.984	1,2		5.74	56 BA	KB2	3	0.333	1,2,3	
5.65	57 LA	KB1	3	0.328	1,2,3		5.75	76 OS	LY6	1	1.001	1,2	
5.65	36 KR	KA2	1	0.984	1,2,3		5.75	81 TL	LB3	1	1.001	1,2,3	
5.66	71 LU	KB2	5	0.197	1,2,3		5.77	88 RA	LA1	1	1.005	1,2,3	
5.66	76 OS	KA1	5	0.197	1,2,3		5.78	82 PB	LB4	1	1.007	1,2,3	
5.66	47 AG	KB5	2	0.493	1		5.79	68 ER	KA1	4	0.252	1,2,3	
5.66	80 HG	LB9	1	0.986	1,2		5.79	60 ND	KA2	3	0.336	1,2,3	
5.67	57 LA	KB3	3	0.329	1,2		5.80	80 HG	LB5	1	1.010	1,2	
5.67	78 PT	LY5	1	0.988	1,2		5.80	71 LU	KB1	5	0.202	1,2,3	
5.69	50 SN	KA2	2	0.495	1,2,3		5.80	76 OS	KA2	5	0.202	1,2,3	
5.69	81 TL	LB7	1	0.990	1,2		5.80	81 TL	LB2	1	1.010	1,2,3	
5.69	77 IR	LY1	1	0.991	1,2,3		5.82	56 BA	KB5	3	0.338	1	
5.70	64 GD	KB2	4	0.248	1,2,3		5.83	71 LU	KB3	5	0.203	1,2	
5.70	34 SE	KB1	1	0.992	1,2,3		5.83	75 RE	KA1	5	0.203	1,2,3	
5.70	75 RE	LY4	1	0.992	1,2		5.83	81 TL	LB1	1	1.015	1,2,3	
5.70	89 AC	LA2	1	0.992	1		5.83	88 RA	LA2	1	1.016	1,2,3	
5.70	76 OS	LY3	1	0.992	1,2,3		5.83	64 GD	KB1	4	0.254	1,2,3	
5.70	83 BI	LB6	1	0.993	1,2,3		5.85	80 HG	LB7	1	1.019	1,2	
5.70	34 SE	KB3	1	0.993	1,2		5.86	70 YB	KB2	5	0.204	1,2,3	
5.71	47 AG	KB1	2	0.497	1,2,3		5.86	64 GD	KB3	4	0.255	1,2	
5.72	60 ND	KA1	3	0.332	1,2,3		5.86	46 PD	KB2	2	0.510	1,2,3	

MICA CRYSTAL, D# 9.98 Å ANGSTROMS						5.86 TO 6.09					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
5.86	82 PB	LB6	1	1.021	1,2,3	5.97	79 AU	LB5	1	1.040	1,2
5.86	79 AU	LB9	1	1.021	1,2	5.98	46 PD	KB1	2	0.521	1,2,3
5.87	77 IR	LY5	1	1.022	1,2	5.98	46 PD	KB3	2	0.521	1,2
5.88	56 BA	KB3	3	0.341	1,2	5.98	87 FR	LA2	1	1.042	1
5.88	56 BA	KB1	3	0.341	1,2,3	6.00	67 HC	KA1	4	0.261	1,2,3
5.88	49 IN	KA1	2	0.512	1,2,3	6.00	35 BR	KA2	1	1.044	1,2,3
5.89	76 OS	LY1	1	1.025	1,2,3	6.00	33 AS	KB2	1	1.045	1,2,3
5.89	75 RE	LY3	1	1.026	1,2,3	6.00	70 YB	KB1	5	0.209	1,2,3
5.90	74 W	LY4	1	1.028	1,2	6.00	70 YB	KB3	5	0.209	1,2
5.90	63 EU	KB2	4	0.257	1,2,3	6.00	74 W	KA1	5	0.209	1,2,3
5.90	79 AU	LB10	1	1.028	1,2	6.01	59 PR	KA2	3	0.349	1,2,3
5.90	68 ER	KA2	4	0.257	1,2,3	6.02	80 HG	LB1	1	1.049	1,2,3
5.92	87 FR	LA1	1	1.030	1,2,3	6.02	33 AS	KB5	1	1.049	1,2
5.92	98 CF	LY1	2	0.515	1	6.03	69 TM	KB2	5	0.210	1
5.93	59 PR	KA1	3	0.344	1,2,3	6.03	79 AU	LB7	1	1.050	1,2
5.93	75 RE	LY2	1	1.032	1,2,3	6.03	81 TL	LB6	1	1.050	1,2,3
5.94	80 HG	LB3	1	1.034	1,2,3	6.05	78 PT	LB9	1	1.054	1,2
5.94	46 PD	KB5	2	0.517	1	6.06	63 EU	KB1	4	0.264	1,2,3
5.94	49 IN	KA2	2	0.517	1,2,3	6.06	63 EU	KB3	4	0.264	1,2
5.96	75 RE	LY6	1	1.037	1,2	6.07	33 AS	KB1	1	1.057	1,2,3
5.96	55 CS	KB2	3	0.346	1,2,3	6.07	76 OS	LY5	1	1.057	1,2
5.97	81 TL	LB4	1	1.039	1,2,3	6.07	86 RN	LA1	1	1.057	1
5.97	80 HG	LB2	1	1.040	1,2,3	6.08	33 AS	KB3	1	1.058	1,2
5.97	75 RE	KA2	5	0.268	1,2,3	6.08	83 BI	LN	1	1.059	1,2,3
5.97	35 BR	KA1	1	1.040	1,2,3	6.09	97 BK	LY1	2	0.530	1

MICA CRYSTAL, D# 9.98E ANGSTROMS							6.09 TO 6.34						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
6.09	75 RE	LY1	1	1.061	1,2,3		6.20	80 HG	LB6	1	1.080	1,2,3	
6.10	78 PT	LB10	1	1.062	1,2		6.20	69 TM	KB3	5	0.216	1,2	
6.10	55 CS	KB1	3	0.354	1,2,3		6.21	45 RH	KB5	2	0.541	1	
6.10	74 W	LY3	1	1.062	1,2,3		6.21	78 PT	LB7	1	1.082	1,2	
6.11	67 HO	KA2	4	0.266	1,2,3		6.23	79 AU	LB1	1	1.084	1,2,3	
6.11	62 SM	KB2	4	0.266	1,2,3		6.23	68 ER	KB2	5	0.217	1,2,3	
6.12	73 TA	LY4	1	1.065	1,2		6.23	85 AT	LA1	1	1.085	1	
6.12	55 CS	KB3	3	0.355	1,2		6.24	58 CE	KA2	3	0.362	1,2,3	
6.13	92 U	LL	1	1.067	2,3		6.26	77 IR	LB9	1	1.090	1,2	
6.13	74 W	LY2	1	1.068	1,2,3		6.27	91 PA	LL	1	1.091	1,2,3	
6.13	79 AU	LB3	1	1.068	1,2,3		6.27	45 RH	KB3	2	0.546	1,2	
6.14	86 RN	LA2	1	1.069	1		6.27	96 CM	LY1	2	0.546	1	
6.15	79 AU	LB2	1	1.070	1,2,3		6.27	82 PB	LN	1	1.092	1,2,3	
6.15	74 W	KA2	5	0.214	1,2,3		6.27	62 SM	KB1	4	0.273	1,2,3	
6.15	48 CD	KA1	2	0.535	1,2,3		6.27	45 RH	KB1	2	0.546	1,2,3	
6.15	45 RH	KB2	2	0.535	1,2,3		6.28	75 RE	LY5	1	1.094	1,2	
6.15	58 CE	KA1	3	0.357	1,2,3		6.29	62 SM	KB3	4	0.274	1,2	
6.16	78 PT	LB5	1	1.072	1,2		6.29	66 DY	KA2	4	0.274	1,2,3	
6.16	80 HG	LB4	1	1.072	1,2,3		6.30	85 AT	LA2	1	1.097	1	
6.17	74 W	LY6	1	1.074	1,2		6.30	77 IR	LB10	1	1.097	1,2	
6.17	69 TM	KB1	5	0.215	1,2,3		6.31	74 W	LY1	1	1.099	1,2,3	
6.17	73 TA	KA1	5	0.215	1,2,3		6.31	73 TA	LY3	1	1.099	1,2,3	
6.19	48 CD	KA2	2	0.539	1,2,3		6.32	73 TA	KA2	5	0.220	1,2,3	
6.20	66 DY	KA1	4	0.270	1,2,3		6.33	78 PT	LB2	1	1.102	1,2,3	
6.20	54 XE	KB2	3	0.360	1,2,3		6.34	72 HF	LY4	1	1.103	1,2	

MICA CRYSTAL, D# 9.98E ANGSTROMS						6.34 TO 6.57					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
6.34	78 PT	LB3	1	1.104	1,2,3	6.46	53 I	KB2	3	0.375	1,2,3
6.34	54 XE	KB1	3	0.368	1,2,3	6.46	57 LA	KA2	3	0.375	1,2,3
6.34	61 PM	KB2	4	0.276	1	6.47	84 PC	LA2	1	1.125	1,2,3
6.35	34 SE	KA1	1	1.105	1,2,3	6.47	76 OS	LB9	1	1.126	1,2
6.35	73 TA	LY2	1	1.105	1,2,3	6.48	61 PM	KB1	4	0.282	1,2,3
6.35	77 IR	LB5	1	1.106	1,2	6.48	81 TL	LN	1	1.128	1,2,3
6.36	79 AU	LB4	1	1.107	1,2,3	6.48	47 AG	KA2	2	0.564	1,2,3
6.37	34 SE	KA2	1	1.109	1,2,3	6.48	32 GE	KB3	1	1.129	1,2
6.38	72 HF	KA1	5	0.222	1,2,3	6.48	32 GE	KB1	1	1.129	1,2,3
6.38	79 AU	LB6	1	1.111	1,2,3	6.50	61 PM	KB3	4	0.283	2
6.39	57 LA	KA1	3	0.371	1,2,3	6.50	65 TB	KA2	4	0.283	1,2,3
6.40	73 TA	LY6	1	1.114	1,2	6.50	74 W	LY5	1	1.132	1,2
6.40	84 PC	LA1	1	1.114	1,2,3	6.51	76 OS	LB10	1	1.133	1,2
6.40	68 ER	KB3	5	0.223	1,2	6.52	77 IR	LB2	1	1.135	1,2,3
6.40	90 TH	LL	1	1.115	1,2,3	6.52	72 HF	KA2	5	0.227	1,2,3
6.40	68 ER	KB1	5	0.223	1,2,3	6.52	44 RU	KB5	2	0.568	1
6.40	77 IR	LB7	1	1.115	1,2	6.54	72 HF	LY3	1	1.138	1,2,3
6.41	65 TB	KA1	4	0.279	1,2,3	6.54	73 TA	LY1	1	1.138	1,2,3
6.42	32 GE	KB2	1	1.117	1,2,3	6.55	76 OS	LB5	1	1.140	1,2
6.42	47 AG	KA1	2	0.559	1,2,3	6.55	77 IR	LB3	1	1.141	1,2,3
6.43	32 GE	KB5	1	1.119	1,2	6.56	78 PT	LB4	1	1.142	1,2,3
6.43	67 HO	KB2	5	0.224	1	6.57	71 LU	LY4	1	1.143	1
6.43	78 PT	LB1	1	1.120	1,2,3	6.57	78 PT	LB6	1	1.144	1,2,3
6.46	44 RU	KB2	2	0.562	1,2,3	6.57	60 ND	KB2	4	0.286	1,2,3
6.46	95 AM	LY1	2	0.562	1,3	6.57	72 HF	LY2	1	1.144	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS						6.57 TO 6.84					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
6.57	44 RU	KB1	2	0.572	1,2,3	6.74	73 TA	LY5	1	1.173	1,2
6.57	83 BI	LA1	1	1.144	1,2,3	6.74	52 TE	KB2	3	0.391	1,2,3
6.58	71 LU	KA1	5	0.229	1,2,3	6.75	82 PB	LA1	1	1.175	1,2,3
6.58	44 RU	KB3	2	0.573	1,2	6.75	33 AS	KA1	1	1.176	1,2,3
6.60	76 OS	LB7	1	1.149	1,2	6.75	60 NO	KB3	4	0.294	1,2
6.61	67 HO	KB1	5	0.230	1	6.76	75 RE	LB5	1	1.177	1,2
6.62	64 GO	KA1	4	0.288	1,2,3	6.77	77 IR	LB6	1	1.178	1,2,3
6.62	53 I	KB1	3	0.384	1,2,3	6.77	72 HF	LY1	1	1.179	1,2,3
6.63	56 BA	KA1	3	0.385	1,2,3	6.77	71 LU	LY3	1	1.179	1,2,3
6.63	83 BI	LA2	1	1.155	1,2,3	6.78	76 OS	LB3	1	1.180	1,2,3
6.63	53 I	KB3	3	0.385	1,2	6.78	43 TC	KB4	2	0.590	1
6.63	72 HF	LY6	1	1.155	1,2	6.78	46 PD	KA2	2	0.590	1,2,3
6.65	77 IR	LB1	1	1.158	1,2,3	6.78	77 IR	LB4	1	1.180	1,2,3
6.65	94 PU	LY1	2	0.579	1	6.78	43 TC	KB2	2	0.590	1
6.66	66 DY	KB2	5	0.232	1,2,3	6.78	33 AS	KA2	1	1.180	1,2,3
6.69	80 HG	LN	1	1.164	1,2,3	6.81	71 LU	LY2	1	1.185	1,2,3
6.69	75 RE	LB9	1	1.165	1,2	6.81	66 DY	KB1	5	0.237	1,2,3
6.70	88 RA	LL	1	1.167	1,2,3	6.81	70 YB	LY4	1	1.185	1,2
6.72	71 LU	KA2	5	0.234	1,2,3	6.81	70 YB	KA1	5	0.237	1,2,3
6.72	46 PD	KA1	2	0.585	1,2,3	6.81	82 PB	LA2	1	1.186	1,2,3
6.72	76 OS	LB2	1	1.170	1,2,3	6.81	75 RE	LB7	1	1.186	1,2
6.72	56 BA	KA2	3	0.390	1,2,3	6.82	91 PA	LY4	2	0.594	1,2
6.73	64 GO	KA2	4	0.293	1,2,3	6.82	59 PR	KB2	4	0.297	1,2,3
6.73	60 NO	KB1	4	0.293	1,2,3	6.84	92 U	LY6	2	0.595	1,2
6.73	75 RE	LB10	1	1.172	1,2	6.84	66 DY	KB3	5	0.238	1,2

MICA CRYSTAL, D# 9.980 ANGSTROMS							6.86 TO 7.10						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
6.86	93 NP	LY1	2	0.597	1,2,3		6.98	55 CS	KA2	3	0.405	1,2,3	
6.87	63 EU	KA1	4	0.299	1,2,3		6.98	72 HF	LY5	1	1.215	1,2	
6.87	31 GA	KB2	1	1.196	1,2,3		6.98	74 W	LB5	1	1.215	1,2	
6.87	92 U	LY3	2	0.598	1,2,3		6.98	59 PR	KB1	4	0.304	1,2,3	
6.88	31 GA	KB5	1	1.197	1,2		7.00	76 OS	LB4	1	1.218	1,2,3	
6.88	76 OS	LB1	1	1.197	1,2,3		7.00	81 TL	LA2	1	1.219	1,2,3	
6.88	71 LU	LY6	1	1.198	1,2		7.01	69 TM	KA1	5	0.244	1,2,3	
6.89	55 CS	KA1	3	0.400	1,2,3		7.01	75 RE	LB3	1	1.220	1,2,3	
6.89	52 TE	KB1	3	0.400	1,2,3		7.01	59 PR	KB3	4	0.305	1,2	
6.89	65 TB	KB2	5	0.240	1,2,3		7.02	71 LU	LY1	1	1.222	1,2,3	
6.90	43 TC	KB3	2	0.601	1,2		7.02	90 TH	LY4	2	0.611	1,2	
6.91	79 AU	LN	1	1.203	1,2,3		7.02	70 YB	LY3	1	1.222	1,2,3	
6.91	52 TE	KB3	3	0.401	1,2		7.03	51 SB	KB2	3	0.408	1,2,3	
6.92	74 W	LB9	1	1.204	1,2		7.03	74 W	LB7	1	1.224	1,2	
6.92	43 TC	KB1	2	0.602	1,2,3		7.04	91 PA	LY6	2	0.613	1,2	
6.92	70 YB	KA2	5	0.241	1,2,3		7.04	45 RH	KA1	2	0.613	1,2,3	
6.93	98 CF	LB1	2	0.603	1		7.06	70 YB	LY2	1	1.229	1,2,3	
6.93	75 RE	LB2	1	1.207	1,2,3		7.06	69 TM	LY4	1	1.229	1	
6.93	81 TL	LA1	1	1.207	1,2,3		7.07	65 TB	KB3	5	0.246	1,2	
6.94	31 GA	KB1	1	1.208	1,2,3		7.07	92 U	LY1	2	0.615	1,2,3	
6.94	31 GA	KB3	1	1.208	1,2		7.07	65 TB	KB1	5	0.246	1,2,3	
6.95	92 U	LY2	2	0.605	1,2,3		7.08	58 CE	KB2	4	0.308	1,2,3	
6.96	63 EU	KA2	4	0.303	1,2,3		7.09	91 PA	LY3	2	0.617	1,2,3	
6.96	74 W	LB10	1	1.212	1,2		7.10	62 SM	KA1	4	0.309	1,2,3	
6.97	76 OS	LB6	1	1.213	1,2,3		7.10	45 RH	KA2	2	0.618	1,2,3	

MICA CRYSTAL, D# 9.980 ANGSTROMS							7.12 TO 7.38						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
7.12	75 RE	LB1	1	1.239	1,2,3		7.24	68 ER	KA1	5	0.252	1,2,3	
7.12	64 GD	KB2	5	0.248	1,2,3		7.24	71 LU	LY5	1	1.260	1,2	
7.12	42 MO	KB4	2	0.620	2		7.24	54 XE	KA2	3	0.420	1,2,3	
7.13	80 HG	LA1	1	1.241	1,2,3		7.26	74 W	LB3	1	1.263	1,2,3	
7.13	97 BK	LB1	2	0.621	1		7.26	73 TA	LB7	1	1.264	1,2	
7.13	42 MO	KB2	2	0.621	1,2,3		7.26	42 MO	KB1	2	0.632	1,2,3	
7.13	51 SB	KB5	3	0.414	1		7.26	58 CE	KB3	4	0.316	1,2	
7.14	78 PT	LN	1	1.243	1,2,3		7.26	90 TH	LY6	2	0.632	1,2	
7.14	70 YB	LY6	1	1.243	1,2		7.26	58 CE	KB1	4	0.316	1,2,3	
7.15	74 W	LB2	1	1.245	1,2,3		7.27	42 MO	KB3	2	0.633	1,2	
7.15	69 TM	KA2	5	0.249	1,2,3		7.28	91 PA	LY1	2	0.634	1,2,3	
7.16	73 TA	LB9	1	1.246	1,2		7.28	69 TM	LY3	1	1.268	1,2,3	
7.17	91 PA	LY2	2	0.624	1,2,3		7.28	70 YB	LY1	1	1.268	1,2,3	
7.17	54 XE	KA1	3	0.416	1,2,3		7.30	64 GD	KB1	5	0.254	1,2,3	
7.19	75 RE	LB6	1	1.251	1,2,3		7.30	92 U	LY5	2	0.635	1,2	
7.19	51 SB	KB1	3	0.417	1,2,3		7.31	90 TH	LY3	2	0.636	1,2,3	
7.20	80 HG	LA2	1	1.253	1,2,3		7.32	69 TM	LY2	1	1.274	1,2,3	
7.20	73 TA	LB10	1	1.254	1,2		7.32	64 GD	KB3	5	0.255	1,2	
7.20	32 GE	KA1	1	1.254	1,2,3		7.33	79 AU	LA1	1	1.276	1,3	
7.20	42 MO	KB5	2	0.627	1		7.33	68 ER	LY4	1	1.276	1,2	
7.20	51 SB	KB3	3	0.418	1,2		7.34	96 CM	LB1	2	0.639	1	
7.21	73 TA	LB5	1	1.255	1,2		7.34	50 SN	KB2	3	0.426	1,2,3	
7.22	62 SM	KA2	4	0.314	1,2,3		7.35	57 LA	KB2	4	0.320	1,2,3	
7.23	32 GE	KA2	1	1.258	1,2,3		7.36	74 W	LB1	1	1.282	1,2,3	
7.23	75 RE	LB4	1	1.259	1,2,3		7.38	77 IR	LN	1	1.284	1,2,3	

MICA CRYSTAL, D# 9.980 ANGSTROMS											7.38 TO 7.63
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
7.38	90 TH	LY2	2	0.642	1,2,3	7.50	72 HF	LB7	1	1.306	1,2
7.38	61 PM	KA1	4	0.321	1,2,3	7.50	98 CF	LB2	2	0.653	1
7.38	30 ZN	KB2	1	1.284	1,2,3	7.50	70 YB	LY5	1	1.306	1,2
7.38	73 TA	LB2	1	1.284	1,2,3	7.51	73 TA	LB3	1	1.307	1,2,3
7.38	30 ZN	KB5	1	1.285	1,2	7.51	41 NB	KB2	2	0.654	1,2,3
7.38	68 ER	KA2	5	0.257	1,2,3	7.51	50 SN	KB3	3	0.436	1,2
7.38	63 EU	KB2	5	0.257	1,2,3	7.53	91 PA	LY5	2	0.655	1,2
7.39	44 RU	KA1	2	0.643	1,2,3	7.54	57 LA	KB1	4	0.328	1,2,3
7.40	79 AU	LA2	1	1.288	1,2,3	7.54	78 PT	LA1	1	1.313	1,2,3
7.41	69 TM	LY6	1	1.290	1	7.55	53 I	KA2	3	0.438	1,2,3
7.41	72 HF	LB9	1	1.290	1,2	7.55	69 TH	LY1	1	1.315	1,2,3
7.41	74 W	LB6	1	1.290	1,2,3	7.55	68 ER	LY3	1	1.315	1,2,3
7.43	44 RU	KA2	2	0.647	1,2,3	7.56	83 BI	LL	1	1.316	1,2,3
7.44	30 ZN	KB1	1	1.295	1,2,3	7.56	57 LA	KB3	4	0.329	1,2
7.45	50 SN	KB5	3	0.432	1	7.56	95 AM	LB1	2	0.558	1,3
7.46	88 RA	LY4	2	0.645	1,2	7.58	41 NB	KB5	2	0.560	1
7.46	72 HF	LB10	1	1.298	1,2	7.58	63 EU	KB3	5	0.264	1,2
7.46	72 HF	LB5	1	1.298	1,2	7.58	63 EU	KB1	5	0.264	1,2,3
7.46	53 I	KA1	3	0.433	1,2,3	7.59	68 ER	LY2	1	1.321	1,2,3
7.47	61 PM	KA2	4	0.325	1,2,3	7.59	67 HO	LY4	1	1.322	1,2
7.48	74 W	LB4	1	1.302	1,2,3	7.61	78 PT	LA2	1	1.324	1,2,3
7.49	57 LA	KB5	4	0.326	1	7.62	72 HF	LB2	1	1.326	1,2,3
7.50	50 SN	KB1	3	0.435	1,2,3	7.62	73 TA	LB1	1	1.327	1,2,3
7.50	67 HO	KA1	5	0.26	1,2,3	7.63	60 ND	KA1	4	0.332	1,2,3
7.50	90 TH	LY1	2	0.653	1,2,3	7.63	76 OS	LN	1	1.328	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS							7.64 TO 7.89						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
7.64	62 SM	KB2	5	0.266	1,2,3		7.77	56 BA	KB5	4	0.338	1	
7.64	67 HO	KA2	5	0.266	1,2,3		7.77	49 IN	KB5	3	0.451	1	
7.65	73 TA	LB6	1	1.331	1,2,3		7.77	52 TE	KA1	3	0.451	1,2,3	
7.65	56 BA	KB2	4	0.333	1,2,3		7.77	72 HF	LB3	1	1.353	1,2,3	
7.65	41 NB	KB3	2	0.666	1,2		7.78	69 TM	LY5	1	1.355	1,2	
7.65	41 NB	KB1	2	0.666	1,2,3		7.79	94 PU	LB1	2	0.678	1	
7.67	49 IN	KB2	3	0.445	1,2,3		7.82	77 IR	LA2	1	1.362	1,2,3	
7.68	71 LU	LB9	1	1.336	1,2		7.82	92 U	LB9	2	0.681	1,2	
7.69	97 BK	LB2	2	0.669	1		7.84	68 ER	LY1	1	1.364	1,2,3	
7.70	31 GA	KA1	1	1.340	1,2,3		7.84	88 RA	LY2	2	0.682	1,2,3	
7.71	71 LU	LB5	1	1.342	1,2		7.84	67 HC	LY3	1	1.364	1,2,3	
7.72	71 LU	LB10	1	1.343	1,2		7.84	56 BA	KB3	4	0.341	1,2	
7.72	31 GA	KA2	1	1.344	1,2,3		7.84	56 BA	KB1	4	0.341	1,2,3	
7.72	60 ND	KA2	4	0.336	1,2,3		7.84	62 SM	KB1	5	0.273	1,2,3	
7.73	88 RA	LY6	2	0.673	1,2		7.84	49 IN	KB1	3	0.455	1,2,3	
7.73	43 TC	KA1	2	0.673	2,3		7.84	49 IN	KB3	3	0.455	1,2	
7.73	73 TA	LB4	1	1.346	1,2,3		7.86	52 TE	KA2	3	0.456	1,2,3	
7.74	89 AC	LY1	2	0.674	1		7.87	62 SM	KB3	5	0.274	1,2	
7.75	71 LU	LB7	1	1.349	1,2		7.87	96 CM	LB2	2	0.685	1	
7.76	88 RA	LY3	2	0.675	1,2,3		7.87	67 HC	LY2	1	1.370	1,2,3	
7.76	90 TH	LY5	2	0.675	1,2		7.87	71 LU	LB2	1	1.370	1,2,3	
7.76	66 DY	KA1	5	0.270	1,2,3		7.87	66 DY	KA2	5	0.274	1,2,3	
7.76	82 PB	LL	1	1.350	1,2,3		7.89	75 RE	LN	1	1.373	1,2,3	
7.76	77 IR	LA1	1	1.351	1,2,3		7.89	72 HF	LB6	1	1.374	1,2,3	
7.77	43 TC	KA2	2	0.676	2,3		7.89	92 U	LB10	2	0.687	1,2	

MICA CRYSTAL, D# 9.98C ANGSTROMS							7.89 TC 8.19						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
7.89	72 HF	LB1	1	1.374	1,2,3		8.06	95 AM	LB2	2	0.701	1,3	
7.89	66 DY	LY4	1	1.374	1,2		8.06	91 PA	LB9	2	0.701	1,2	
7.91	59 PR	KA1	4	0.344	1,2,3		8.07	40 ZR	KB3	2	0.702	1,2	
7.93	61 PM	KB2	5	0.276	1		8.07	40 ZR	KB1	2	0.702	1,2,3	
7.93	40 ZR	KB2	2	0.690	1,2,3		8.08	68 ER	LY5	1	1.406	1,2	
7.93	29 CU	KB2	1	1.381	2,3		8.10	51 SB	KA1	3	0.470	1,2,3	
7.94	29 CU	KB5	1	1.382	2		8.10	61 PM	KB1	5	0.282	1,2,3	
7.95	55 CS	KB2	4	0.346	1,2,3		8.13	70 YB	LB2	1	1.415	1,2,3	
7.95	70 YB	LB9	1	1.384	1,2		8.13	61 PM	KB3	5	0.283	2	
7.96	81 TL	LL	1	1.385	1,2,3		8.13	65 TB	KA2	5	0.283	1,2,3	
7.97	70 YB	LB5	1	1.387	1,2		8.14	91 PA	LB10	2	0.708	1,2	
7.99	88 RA	LY1	2	0.695	1,2,3		8.14	55 CS	KB1	4	0.354	1,2,3	
7.99	70 YB	LB10	1	1.391	1,2		8.14	67 HC	LY1	1	1.417	1,2,3	
7.99	76 OS	LA1	1	1.391	1,2,3		8.14	66 DY	LY3	1	1.417	1,2,3	
8.00	72 HF	LB4	1	1.392	1,2,3		8.15	42 MC	KA1	2	0.709	1,2,3	
8.00	29 CU	KB1	1	1.392	1,2,3		8.15	71 LU	LB6	1	1.419	1,2,3	
8.00	40 ZR	KB5	2	0.696	1		8.16	55 CS	KB3	4	0.355	1,2	
8.00	29 CU	KB3	1	1.393	1,2		8.16	92 U	LB3	2	0.710	1,2,3	
8.01	48 CD	KB2	3	0.465	1,2,3		8.16	74 W	LN	1	1.421	1,2,3	
8.01	70 YB	LB7	1	1.395	1,2		8.17	80 HG	LL	1	1.422	1,2,3	
8.01	65 TB	KA1	5	0.279	1,2,3		8.18	66 DY	LY2	1	1.423	1,2,3	
8.02	93 NP	LB1	2	0.698	1,2,3		8.18	71 LU	LB1	1	1.424	1,2,3	
8.02	59 PR	KA2	4	0.349	1,2,3		8.19	51 SB	KA2	3	0.475	1,2,3	
8.05	71 LU	LB3	1	1.401	1,2,3		8.19	48 CD	KB1	3	0.475	1,2,3	
8.06	76 OS	LA2	1	1.402	1,2,3		8.19	42 MC	KA2	2	0.713	1,2,3	

MICA CRYSTAL, D# 9.980 ANGSTROMS							8.20 TO 8.53					
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF
8.20	65 TB	LY4	1	1.427	1,2		8.40	67 HC	LY5	1	1.462	1,2
8.20	58 CE	KA1	4	0.357	1,2,3		8.41	69 TM	LB2	1	1.463	1,2,3
8.20	48 CD	KB3	3	0.476	1,2		8.41	91 PA	LB3	2	0.732	1,2,3
8.22	60 ND	KB2	5	0.286	1,2,3		8.42	60 ND	KB1	5	0.293	1,2,3
8.23	87 FR	LY1	2	0.716	1,2,3		8.42	64 GD	KA2	5	0.293	1,2,3
8.23	75 RE	LA1	1	1.433	1,2,3		8.42	70 YB	LB6	1	1.466	1,2,3
8.24	88 RA	LY5	2	0.717	1,2		8.43	39 Y	KB5	2	0.734	1
8.25	30 ZN	KA1	1	1.435	1,2,3		8.45	60 ND	KB3	5	0.294	1,2
8.25	94 PU	LB2	2	0.718	1		8.45	65 TB	LY3	1	1.471	1,2,3
8.27	30 ZN	KA2	1	1.439	1,2,3		8.45	73 TA	LN	1	1.471	1,2,3
8.27	71 LU	LB4	1	1.440	1,2,3		8.46	93 NP	LB2	2	0.736	1,2,3
8.27	54 XE	KB2	4	0.360	1,2,3		8.46	92 U	LB7	2	0.736	1,2
8.27	64 GD	KA1	5	0.288	1,2,3		8.46	54 XE	KB1	4	0.368	1,2,3
8.27	92 U	LB1	2	0.720	1,2,3		8.46	66 DY	LY1	1	1.473	1,2,3
8.28	69 TM	LB10	1	1.441	1		8.46	50 SN	KA1	3	0.491	1,2,3
8.30	75 RE	LA2	1	1.444	1,2,3		8.48	74 W	LA1	1	1.476	1,2,3
8.31	90 TH	LB9	2	0.723	1,2		8.48	70 YB	LB1	1	1.476	1,2,3
8.32	58 CE	KA2	4	0.362	1,2,3		8.49	65 TB	LY2	1	1.477	1,2,3
8.34	70 YB	LB3	1	1.452	1,2,3		8.49	71 LU	LN	1	1.478	1,2
8.34	92 U	LB5	2	0.726	1,2		8.49	86 RN	LY1	2	0.739	1
8.35	39 Y	KB4	2	0.727	2		8.50	47 AG	KB5	3	0.493	1
8.38	39 Y	KB2	2	0.729	1,2,3		8.52	39 Y	KB3	2	0.741	1,2
8.39	90 TH	LB10	2	0.730	1,2		8.52	39 Y	KB1	2	0.741	1,2,3
8.39	79 AU	LL	1	1.460	1,2,3		8.53	91 PA	LB1	2	0.742	1,2,3
8.39	47 AG	KB2	3	0.487	1,2,3		8.53	57 LA	KA1	4	0.371	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS						8.53 TO 8.85					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
8.53	64 GD	LY4	1	1.485	1,2	8.70	68 ER	LB2	1	1.514	1,2,3
8.53	68 ER	LB9	1	1.485	1,2	8.71	69 TM	LB6	1	1.515	1,2,3
8.53	50 SM	KA2	3	0.495	1,2,3	8.71	63 EU	KA2	5	0.303	1,2,3
8.53	59 PR	KB2	5	0.297	1,2,3	8.72	66 DY	LY5	1	1.518	1,2
8.54	74 W	LA2	1	1.487	1,2,3	8.73	59 PR	KB1	5	0.304	1,2,3
8.56	28 NI	KB5	1	1.489	1,2	8.75	83 BI	LY4	2	0.761	1,2
8.56	28 NI	KB2	1	1.489	1,2,3	8.75	73 TA	LA1	1	1.522	1,2,3
8.56	91 PA	LB5	2	0.745	1,2	8.75	72 HF	LN	1	1.523	1,2,3
8.57	70 YB	LB4	1	1.491	1,2,3	8.76	59 PR	KB3	5	0.305	1,2
8.57	47 AG	KB1	3	0.497	1,2,3	8.77	85 AT	LY1	2	0.763	1
8.57	41 NB	KA1	2	0.746	1,2,3	8.78	84 PO	LY6	2	0.764	1,2
8.58	68 ER	LB7	1	1.494	1,2	8.78	84 PC	LY3	2	0.764	1,2,3
8.58	47 AG	KB3	3	0.498	1,2	8.79	64 GD	LY3	1	1.529	1,2,3
8.58	68 ER	LB10	1	1.494	1,2	8.79	69 TM	LB1	1	1.530	1,2,3
8.59	63 EU	KA1	5	0.299	1,2,3	8.79	90 TH	LB5	2	0.765	1,2
8.60	92 U	LB4	2	0.748	1,2,3	8.79	46 PC	KB2	3	0.510	1,2,3
8.61	78 PT	LL	1	1.499	1,2,3	8.79	65 TB	LY1	1	1.530	1,2,3
8.62	53 I	KB2	4	0.375	1,2,3	8.79	90 TH	LB1	2	0.765	1,2,3
8.62	57 LA	KA2	4	0.375	1,2,3	8.81	73 TA	LA2	1	1.533	1,2,3
8.62	41 NB	KA2	2	0.750	1,2,3	8.81	64 GD	LY2	1	1.534	1,2,3
8.62	28 NI	KB1	1	1.500	1,2,3	8.83	53 I	KB1	4	0.384	1,2,3
8.65	69 TM	LB3	1	1.505	1,2,3	8.83	49 IN	KA1	3	0.512	1,2,3
8.68	92 U	LB2	2	0.755	1,2,3	8.84	88 RA	LB9	2	0.769	1,2
8.68	91 PA	LB7	2	0.755	1,2	8.85	53 I	KB3	4	0.385	1,2
8.68	90 TH	LB3	2	0.755	1,2,3	8.85	56 BA	KA1	4	0.385	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS							8.85 TO 9.15					
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF
8.85	58 CE	KB2	5	0.308	1,2,3		9.01	68 ER	LB6	1	1.567	1,2,3
8.85	91 PA	LB4	2	0.770	1,2,3		9.02	72 HF	LA1	1	1.569	1,2,3
8.86	77 IR	LL	1	1.541	1,2,3		9.02	62 SM	KA2	5	0.314	1,2,3
8.86	29 CU	KA1	1	1.541	1,2,3		9.03	82 PB	LY4	2	0.786	1
8.86	38 SR	KB2	2	0.771	1,2,3		9.03	40 ZR	KA1	2	0.786	1,2,3
8.87	29 CU	KA2	1	1.544	1,2,3		9.05	84 PC	LY1	2	0.787	1,2,3
8.87	63 EU	LY4	1	1.544	1,2		9.06	92 U	LB6	2	0.788	1,2,3
8.87	69 TM	LB4	1	1.544	1,2,3		9.06	65 TB	LB5	1	1.577	2
8.88	62 SM	KA1	5	0.309	1,2,3		9.06	65 TB	LY5	1	1.577	1
8.88	98 CF	LY1	3	0.515	1		9.07	83 BI	LY3	2	0.789	1,2,3
8.90	91 PA	LB2	2	0.774	1,2,3		9.07	89 AC	LB1	2	0.789	1
8.90	90 TH	LB7	2	0.774	1,2		9.08	83 BI	LY6	2	0.790	1,2
8.90	67 HO	LB10	1	1.549	1		9.08	72 HF	LA2	1	1.580	1,2,3
8.91	38 SR	KB5	2	0.775	1		9.08	40 ZR	KA2	2	0.790	1,2,3
8.91	88 RA	LB10	2	0.775	1,2		9.08	58 CE	KB1	5	0.316	1,2,3
8.91	46 PD	KB5	3	0.517	1		9.08	58 CE	KB3	5	0.316	1,2
8.91	49 IN	KA2	3	0.517	1,2,3		9.10	98 CF	LA1	2	0.792	1
8.96	56 BA	KA2	4	0.390	1,2,3		9.11	76 OS	LL	1	1.585	1,2,3
8.97	68 ER	LB3	1	1.561	1,2,3		9.11	90 TH	LB4	2	0.793	1,2,3
8.98	46 PD	KB1	3	0.521	1,2,3		9.12	68 ER	LB1	1	1.587	1,2,3
8.98	46 PD	KB3	3	0.521	1,2		9.13	90 TH	LB2	2	0.794	1,2,3
8.99	52 TE	KB2	4	0.391	1,2,3		9.14	97 BK	LY1	3	0.530	1
9.00	38 SR	KB1	2	0.783	1,2,3		9.14	63 EU	LY3	1	1.591	1,2,3
9.00	38 SR	KB3	2	0.783	1,2		9.15	83 BI	LY2	2	0.796	1,2,3
9.01	67 HO	LB2	1	1.567	1,2,3		9.15	64 GC	LY1	1	1.592	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS						9.18 TO 9.45					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
9.18	63 EU	LY2	1	1.597	1,2,3	9.32	67 HC	LB6	1	1.622	1,2,3
9.19	66 DY	LB7	1	1.599	1,2	9.33	45 RH	KB5	3	0.541	1
9.20	66 DY	LB9	1	1.600	1	9.33	66 DY	LB2	1	1.623	1,2,3
9.20	57 LA	KB2	5	0.320	1,2,3	9.33	81 TL	LY4	2	0.812	1,2
9.20	55 CS	KA1	4	0.400	1,2,3	9.34	61 PM	KA2	5	0.325	1,2,3
9.20	52 TE	KB1	4	0.400	1,2,3	9.34	83 BI	LY1	2	0.813	1,2,3
9.20	68 ER	LB4	1	1.601	1,2,3	9.36	88 RA	LB1	2	0.814	1,2,3
9.22	52 TE	KB3	4	0.401	1,2	9.36	89 AC	LB2	2	0.814	1
9.22	61 PM	KA1	5	0.321	1,2,3	9.37	57 LA	KB5	5	0.326	1
9.22	45 RH	KB2	3	0.535	1,2,3	9.37	75 RE	LL	1	1.630	1,2,3
9.22	48 CD	KA1	3	0.535	1,2,3	9.37	82 PB	LY3	2	0.815	1,2,3
9.23	62 SM	LY4	1	1.606	1,2	9.37	71 LU	LA2	1	1.630	1,2,3
9.23	88 RA	LB3	2	0.803	1,2,3	9.38	51 SB	KB2	4	0.408	1,2,3
9.24	66 DY	LB10	1	1.607	1	9.38	37 RB	KB2	2	0.816	1,2,3
9.24	98 CF	LA2	2	0.804	1	9.38	88 RA	LB7	2	0.816	1,2
9.25	27 CO	KB5	1	1.609	1,2	9.39	82 PB	LY6	2	0.817	1,2
9.25	92 U	LN	2	0.805	1,2,3	9.40	70 YB	LN	1	1.636	1,2,3
9.26	88 RA	LB5	2	0.806	1,2	9.41	96 CM	LY1	3	0.546	1
9.29	91 PA	LB6	2	0.808	1,2,3	9.41	45 RH	KB1	3	0.546	1,2,3
9.29	48 CD	KA2	3	0.539	1,2,3	9.41	45 RH	KB3	3	0.546	1,2
9.30	67 HO	LB3	1	1.619	1,2,3	9.43	57 LA	KB1	5	0.328	1,2,3
9.30	71 LU	LA1	1	1.619	1,2,3	9.43	64 GD	LY5	1	1.641	1
9.31	97 BK	LA1	2	0.810	1	9.44	82 PB	LY2	2	0.821	1,2,3
9.31	55 CS	KA2	4	0.405	1,2,3	9.45	97 BK	LA2	2	0.822	1
9.32	27 CO	KB1	1	1.621	1,2,3	9.45	37 RB	KB5	2	0.822	1

MICA CRYSTAL, D# 9.98E ANGSTROMS							9.45 TO 9.79						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
9.45	57 LA	KB3	5	0.329	1,2		9.64	47 AG	KA1	3	0.559	1,2,3	
9.47	67 HO	LB1	1	1.647	1,2,3		9.64	74 W	LL	1	1.678	1,2,3	
9.51	62 SM	LY3	1	1.655	1,2,3		9.64	80 HG	LY4	2	0.839	1,2	
9.52	51 SB	KB5	4	0.414	1		9.64	83 BI	LY5	2	0.839	1,2	
9.52	90 TH	LB6	2	0.828	1,2,3		9.66	82 PB	LY1	2	0.840	1,2,3	
9.53	91 PA	LN	2	0.829	1,2,3		9.66	60 ND	KA2	5	0.336	1,2,3	
9.53	37 RB	KB3	2	0.829	1,2		9.66	87 FR	LB1	2	0.840	1,2,3	
9.53	63 EU	LY1	1	1.658	1,2,3		9.66	54 XE	KA2	4	0.420	1,2,3	
9.53	37 RB	KB1	2	0.829	1,2,3		9.66	66 DY	LB6	1	1.681	1,2,3	
9.53	28 NI	KA1	1	1.658	1,2,3		9.66	66 DY	LB3	1	1.681	1,2,3	
9.53	96 CM	LA1	2	0.829	1		9.67	81 TL	LY3	2	0.841	1,2,3	
9.53	39 Y	KA1	2	0.829	1,2,3		9.67	88 RA	LB4	2	0.841	1,2,3	
9.53	62 SM	LY2	1	1.659	1,2,3		9.67	96 CM	LA2	2	0.841	1	
9.53	67 HO	LB4	1	1.659	1,2,3		9.67	65 TB	LB2	1	1.682	1,2,3	
9.53	65 TB	LB7	1	1.659	1,2		9.67	70 YB	LA2	1	1.683	1,2,3	
9.54	60 ND	KA1	5	0.332	1,2,3		9.69	95 AM	LY1	3	0.562	1,3	
9.55	28 NI	KA2	1	1.662	1,2,3		9.69	44 RU	KB2	3	0.562	1,2,3	
9.56	54 XE	KA1	4	0.416	1,2,3		9.70	81 TL	LY6	2	0.844	1,2	
9.57	56 BA	KB2	5	0.333	1,2,3		9.71	56 BA	KB5	5	0.338	1	
9.58	39 Y	KA2	2	0.833	1,2,3		9.73	47 AG	KA2	3	0.564	1,2,3	
9.58	65 TB	LB10	1	1.667	1,2		9.75	95 AM	LA1	2	0.848	1,3	
9.59	51 SB	KB1	4	0.417	1,2,3		9.75	81 TL	LY2	2	0.848	1,2,3	
9.60	88 RA	LB2	2	0.835	1,2,3		9.75	69 TM	LN	1	1.696	1,2,3	
9.61	70 YB	LA1	1	1.672	1,2,3		9.79	50 SN	KB2	4	0.426	1,2,3	
9.61	51 SB	KB3	4	0.418	1,2		9.79	44 RU	KB5	3	0.568	1	

MICA CRYSTAL, D# 9.98C ANGSTROMS						9.80 TC 10.12					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
9.80	56 BA	KB1	5	0.341	1,2,3	9.98	94 PU	LA1	2	0.868	1
9.80	56 BA	KB3	5	0.341	1,2	9.98	94 PU	LY1	3	0.579	1
9.82	90 TH	LN	2	0.854	1,2,3	9.98	69 TM	LA2	1	1.737	1,2,3
9.82	63 EU	LY5	1	1.708	1,2	9.99	80 HG	LY3	2	0.869	1,2,3
9.83	66 DY	LB1	1	1.710	1,2,3	10.00	50 SN	KB1	4	0.435	1,2,3
9.86	44 RU	KB1	3	0.572	1,2,3	10.01	65 TB	LB6	1	1.741	1,2,3
9.86	87 FR	LB2	2	0.858	1,2,3	10.01	36 KR	KB5	2	0.871	1,2
9.88	44 RU	KB3	3	0.573	1,2	10.01	88 RA	LB6	2	0.871	1,2,3
9.89	59 PR	KA1	5	0.344	1,2,3	10.02	50 SN	KB3	4	0.436	1,2
9.89	66 DY	LB4	1	1.720	1,2,3	10.02	26 FE	KB5	1	1.744	1,2
9.89	95 AM	LA2	2	0.860	1,3	10.02	60 ND	LY4	1	1.744	1,2
9.90	64 GD	LB7	1	1.723	1,2	10.03	59 PR	KA2	5	0.349	1,2,3
9.91	64 GD	LB9	1	1.724	1	10.03	64 GD	LB2	1	1.745	1,2,3
9.92	69 TM	LA1	1	1.726	1,2,3	10.04	65 TB	LB3	1	1.746	1,2,3
9.93	62 SM	LY1	1	1.727	1,2,3	10.04	80 HG	LY6	2	0.873	1,2
9.93	73 TA	LL	1	1.728	1,2,3	10.06	80 HG	LY2	2	0.875	1,2,3
9.93	50 SN	KB5	4	0.432	1	10.06	38 SR	KA1	2	0.875	1,2,3
9.94	55 CS	KB2	5	0.346	1,2,3	10.07	53 I	KA2	4	0.438	1,2,3
9.95	64 GD	LB10	1	1.731	1,2	10.09	46 PD	KA1	3	0.585	1,2,3
9.96	36 KR	KB4	2	0.866	2	10.09	36 KR	KB1	2	0.878	1,2,3
9.96	36 KR	KB2	2	0.866	1,2,3	10.09	68 ER	LN	1	1.756	1,2,3
9.96	86 RN	LB1	2	0.866	1	10.10	26 FE	KB1	1	1.757	1,2,3
9.96	82 PB	LY5	2	0.866	1,2	10.11	38 SR	KA2	2	0.879	1,2,3
9.96	53 I	KA1	4	0.433	1,2,3	10.11	36 KR	KB3	2	0.879	1,2
9.98	81 TL	LY1	2	0.868	1,2,3	10.12	94 PU	LA2	2	0.880	1

MICA CRYSTAL, D# 9.980 ANGSTROMS						10.13 TO 10.43					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
10.13	86 RN	LB2	2	0.881	1	10.31	78 PT	LY4	2	0.897	1,2
10.17	43 TC	KB2	3	0.590	1	10.31	80 HG	LY1	2	0.897	1,2,3
10.17	55 CS	KB1	5	0.354	1,2,3	10.32	68 ER	LA2	1	1.796	1,2,3
10.17	46 PD	KA2	3	0.590	1,2,3	10.32	83 BI	LB9	2	0.898	1,2
10.17	43 TC	KB4	3	0.590	1	10.32	60 ND	LY3	1	1.796	1,2,3
10.20	55 CS	KB3	5	0.355	1,2	10.32	79 AU	LY3	2	0.898	1,2,3
10.21	65 TB	LB1	1	1.776	1,2,3	10.34	84 PC	LB5	2	0.899	1,2
10.22	93 NP	LA1	2	0.889	1,2,3	10.35	63 EU	LB10	1	1.800	1,2
10.23	62 SM	LY5	1	1.779	1	10.35	54 XE	KB2	5	0.360	1,2,3
10.23	62 SM	LB5	1	1.779	2	10.35	60 ND	LY2	1	1.801	1,2,3
10.23	49 IN	KB2	4	0.445	1,2,3	10.36	93 NP	LA2	2	0.901	1
10.24	72 HF	LL	1	1.781	1,2,3	10.36	43 TC	KB3	3	0.601	1,2
10.24	91 PA	LY4	3	0.594	1,2	10.37	49 IN	KB5	4	0.451	1
10.26	68 ER	LA1	1	1.784	1,2,3	10.37	52 TE	KA1	4	0.451	1,2,3
10.26	65 TB	LB4	1	1.785	1,2,3	10.38	79 AU	LY6	2	0.903	1,2
10.26	58 CE	KA1	5	0.357	1,2,3	10.38	43 TC	KB1	3	0.602	1,2,3
10.26	92 U	LY6	3	0.595	1,2	10.39	64 GC	LB6	1	1.807	1,2,3
10.28	63 EU	LB7	1	1.788	1,2	10.39	79 AU	LY2	2	0.904	1,2,3
10.28	85 AT	LB1	2	0.894	1	10.40	98 CF	LB1	3	0.603	1
10.28	27 CO	KA1	1	1.789	1,2,3	10.41	58 CE	KA2	5	0.362	1,2,3
10.29	81 TL	LY5	2	0.895	1,2	10.41	83 BI	LB10	2	0.905	1,2
10.30	93 NP	LY1	3	0.597	1,2,3	10.41	85 AT	LB2	2	0.905	1
10.30	63 EU	LB9	1	1.792	1,2	10.42	63 EU	LB2	1	1.812	1,2,3
10.31	27 CO	KA2	1	1.793	1,2,3	10.43	88 RA	LN	2	0.907	1,2,3
10.31	92 U	LY3	3	0.598	1,2,3	10.43	92 U	LY2	3	0.605	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS							10.43 TO 10.75						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
10.43	64 GD	LB3	1	1.815	1,2,3		10.65	64 GD	LB4	1	1.853	1,2,3	
10.44	61 PM	LY1	1	1.816	1		10.66	77 IR	LY4	2	0.927	1,2	
10.45	84 PO	LB3	2	0.909	1,2,3		10.66	45 RH	KA2	3	0.618	1,2,3	
10.46	59 PR	LY4	1	1.819	1,2		10.66	79 AU	LY1	2	0.927	1,2,3	
10.46	49 IN	KB1	4	0.455	1,2,3		10.66	82 PB	LB9	2	0.927	1,2	
10.46	49 IN	KB3	4	0.455	1,2		10.66	60 NC	LY6	1	1.855	2	
10.47	92 U	LA1	2	0.911	1,2,3		10.66	57 LA	KA1	5	0.371	1,2,3	
10.49	52 TE	KA2	4	0.456	1,2,3		10.67	62 SM	LB7	1	1.856	1,2	
10.50	67 HO	LN	1	1.826	1,2,3		10.67	78 PT	LY3	2	0.928	1,2,3	
10.54	90 TH	LY4	3	0.611	1,2		10.67	67 HC	LA2	1	1.856	1,2,3	
10.56	71 LU	LL	1	1.836	1,2,3		10.68	84 PG	LB2	2	0.929	1,2,3	
10.57	45 RH	KA1	3	0.613	1,2,3		10.69	48 CD	KB2	4	0.465	1,2,3	
10.57	91 PA	LY6	3	0.613	1,2		10.69	42 MC	KB4	3	0.620	2	
10.58	54 KE	KB1	5	0.368	1,2,3		10.69	37 RB	KA2	2	0.930	1,2,3	
10.59	35 BR	KB2	2	0.921	1,2,3		10.70	62 SM	LB9	1	1.861	1,2	
10.60	92 J	LA2	2	0.922	1,2,3		10.71	97 BK	LB1	3	0.621	1	
10.60	84 PO	LB1	2	0.922	1,2,3		10.71	42 MC	KB2	3	0.621	1,2,3	
10.61	92 U	LY1	3	0.615	1,2,3		10.73	35 BR	KB3	2	0.933	1,2	
10.61	67 HO	LA1	1	1.845	1,2,3		10.73	35 BR	KB1	2	0.933	1,2,3	
10.61	64 GD	LB1	1	1.846	1,2,3		10.73	91 PA	LA1	2	0.933	1,2,3	
10.63	80 HG	LY5	2	0.924	1,2		10.74	78 PT	LY2	2	0.934	1,2,3	
10.64	35 BR	KB5	2	0.925	1,2		10.74	82 PB	LB10	2	0.934	1,2	
10.64	91 PA	LY3	3	0.617	1,2,3		10.74	78 PT	LY6	2	0.934	1,2	
10.65	37 RB	KA1	2	0.926	1,2,3		10.75	62 SM	LB10	1	1.869	1,2	
10.65	83 BI	LB5	2	0.926	1,2		10.75	83 BI	LB7	2	0.935	1,2	

MICA CRYSTAL, D# 9.980 ANGSTROMS						10.76 TO 11.10					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
10.76	91 PA	LY2	3	0.624	1,2,3	10.95	83 BI	LB1	2	0.952	1,2,3
10.77	59 PR	LY3	1	1.874	1,2,3	10.95	92 U	LY5	3	0.635	1,2
10.77	63 EU	LB6	1	1.874	1,2,3	10.96	82 PB	LB5	2	0.953	1,2
10.78	57 LA	KA2	5	0.375	1,2,3	10.97	90 TH	LY3	3	0.636	1,2,3
10.78	53 I	KB2	5	0.375	1,2,3	10.98	66 DY	LA1	1	1.909	1,2,3
10.80	6J ND	LY1	1	1.878	1,2,3	10.98	25 MN	KB1	1	1.910	1,2,3
10.80	83 BI	LB3	2	0.939	1,2,3	10.98	83 BI	LB2	2	0.955	1,2,3
10.80	59 PR	LY2	1	1.879	1,2,3	10.99	90 TH	LA1	2	0.956	1,2,3
10.81	51 SB	KA1	4	0.470	1,2,3	10.99	79 AU	LY5	2	0.956	1,2
10.81	42 MO	KB5	3	0.627	1	11.00	81 TL	LB9	2	0.957	1,2
10.82	62 SM	LB2	1	1.882	1,2,3	11.02	78 PT	LY1	2	0.958	1,2,3
10.85	63 EU	LB3	1	1.887	1,2,3	11.02	96 CM	LB1	3	0.639	1
10.87	91 PA	LA2	2	0.945	1,2,3	11.03	77 IR	LY3	2	0.959	1,2,3
10.89	75 YB	LL	1	1.894	1,2,3	11.03	76 OS	LY4	2	0.959	1,2
10.89	84 PO	LB4	2	0.947	1,2,3	11.04	66 DY	LA2	1	1.920	1,2,3
10.90	42 MO	KB1	3	0.632	1,2,3	11.04	53 I	KB1	5	0.384	1,2,3
10.90	90 TH	LY6	3	0.632	1,2	11.04	63 EU	LB1	1	1.920	1,2,3
10.91	66 DY	LN	1	1.897	1,2,3	11.06	82 PB	LB7	2	0.962	1,2
10.91	25 MN	KB5	1	1.897	1,2	11.07	56 BA	KA1	5	0.385	1,2,3
10.92	42 MO	KB3	3	0.633	1,2	11.07	53 I	KB3	5	0.385	1,2
10.92	58 CE	LY4	1	1.899	1,2	11.07	90 TH	LY2	3	0.642	1,2,3
10.92	51 SB	KA2	4	0.475	1,2,3	11.07	63 EU	LB4	1	1.926	1,2,3
10.92	48 CD	KB1	4	0.475	1,2,3	11.09	81 TL	LB10	2	0.964	1,2
10.94	91 PA	LY1	3	0.634	1,2,3	11.09	44 RU	KA1	3	0.643	1,2,3
10.95	48 CD	KB3	4	0.476	1,2	11.10	77 IR	LY2	2	0.965	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS						11.12 TO 11.42					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
11.12	84 PD	LB6	2	0.967	1,2,3	11.28	62 SM	LB3	1	1.962	1,2,3
11.12	77 IR	LY6	2	0.967	1,2	11.28	41 NB	KB2	3	0.654	1,2,3
11.13	60 ND	LY5	1	1.935	1,2	11.29	82 PB	LB1	2	0.982	1,2,3
11.13	26 FE	KA1	1	1.936	1,2,3	11.29	50 SN	KA1	4	0.491	1,2,3
11.13	90 TH	LA2	2	0.968	1,2,3	11.30	91 PA	LY5	3	0.655	1,2
11.14	82 PB	LB3	2	0.969	1,2,3	11.30	82 PB	LB2	2	0.983	1,2,3
11.15	26 FE	KA2	1	1.940	1,2,3	11.32	36 KR	KA2	2	0.984	1,2,3
11.16	44 RU	KA2	3	0.647	1,2,3	11.32	34 SE	KB5	2	0.984	1,2
11.19	62 SM	LB6	1	1.946	1,2,3	11.34	80 HG	LB9	2	0.986	1,2
11.20	88 RA	LY4	3	0.649	1,2	11.34	47 AG	KB5	4	0.493	1
11.20	47 AG	KB2	4	0.487	1,2,3	11.35	65 TB	LN	1	1.973	1
11.21	56 BA	KA2	5	0.390	1,2,3	11.35	95 AM	LB1	3	0.658	1,3
11.24	83 BI	LB4	2	0.977	1,2,3	11.36	65 TB	LA1	1	1.975	1,2,3
11.24	69 TM	LL	1	1.955	1,2,3	11.36	78 PT	LY5	2	0.988	1,2
11.24	52 TE	KB2	5	0.391	1,2,3	11.39	41 NB	KB5	3	0.660	1
11.24	58 CE	LY3	1	1.955	1,2,3	11.39	50 SN	KA2	4	0.495	1,2,3
11.25	61 FM	LB2	1	1.957	1	11.39	81 TL	LB7	2	0.990	1,2
11.26	90 TH	LY1	3	0.653	1,2,3	11.40	77 IR	LY1	2	0.991	1,2,3
11.26	98 CF	LB2	3	0.653	1	11.40	57 LA	LY4	1	1.983	1,2
11.27	89 AC	LA1	2	0.980	1	11.41	34 SE	KB1	2	0.992	1,2,3
11.27	34 SE	KB2	2	0.980	1,2,3	11.41	76 OS	LY3	2	0.992	1,2,3
11.27	58 CE	LY2	1	1.960	1,2,3	11.41	75 RE	LY4	2	0.992	1,2
11.27	36 KR	KA1	2	0.980	1,2,3	11.41	89 AC	LA2	2	0.992	1
11.28	59 PR	LY1	1	1.961	1,2,3	11.42	34 SE	KB3	2	0.993	1,2
11.28	81 TL	LB5	2	0.981	1,2	11.42	83 BI	LB6	2	0.993	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS							11.42 TO 11.79						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
11.42	65 TB	LA2	1	1.986	1,2,3		11.63	89 AC	LY1	3	0.674	1	
11.43	47 AG	KB1	4	0.497	1,2,3		11.63	60 ND	LB10	1	2.023	1,2	
11.45	47 AG	KB3	4	0.498	1,2		11.65	55 CS	KA2	5	0.405	1,2,3	
11.45	80 HG	LB10	2	0.996	1,2		11.65	90 TH	LY5	3	0.675	1,2	
11.48	76 OS	LY2	2	0.998	1,2,3		11.65	88 RA	LY3	3	0.675	1,2,3	
11.49	41 NB	KB3	3	0.666	1,2		11.66	43 TC	KA2	3	0.676	2,3	
11.49	41 NB	KB1	3	0.666	1,2,3		11.67	81 TL	LB1	2	1.015	1,2,3	
11.49	62 SM	LB1	1	1.998	1,2,3		11.69	88 RA	LA2	2	1.016	1,2,3	
11.50	52 TE	KB1	5	0.400	1,2,3		11.70	94 PU	LB1	3	0.678	1	
11.50	55 CS	KA1	5	0.400	1,2,3		11.71	60 ND	LB2	1	2.036	1,2,3	
11.50	62 SM	LB4	1	2.000	1,2,3		11.72	80 HG	LB7	2	1.019	1,2	
11.51	76 OS	LY6	2	1.001	1,2		11.73	46 PC	KB2	4	0.510	1,2,3	
11.51	81 TL	LB3	2	1.001	1,2,3		11.73	51 SB	KB2	5	0.408	1,2,3	
11.53	52 TE	KB3	5	0.401	1,2		11.74	57 LA	LY3	1	2.041	1,2,3	
11.54	97 BK	LB2	3	0.669	1		11.74	79 AU	LB9	2	1.021	1,2	
11.55	60 ND	LB7	1	2.009	1,2		11.74	82 PB	LB6	2	1.021	1,2,3	
11.56	88 RA	LA1	2	1.005	1,2,3		11.75	92 U	LB9	3	0.681	1,2	
11.58	82 PB	LB4	2	1.007	1,2,3		11.75	77 IR	LY5	2	1.022	1,2	
11.59	60 ND	LB9	1	2.016	1,2		11.77	88 RA	LY2	3	0.682	1,2,3	
11.61	88 RA	LY6	3	0.673	1,2		11.77	64 GD	LA1	1	2.046	1,2,3	
11.61	43 TC	KA1	3	0.673	2,3		11.77	57 LA	LY2	1	2.046	1,2,3	
11.61	68 ER	LL	1	2.019	1,2,3		11.78	58 CE	LY1	1	2.048	1,2,3	
11.62	80 HG	LB5	2	1.010	1,2		11.78	49 IN	KA1	4	0.512	1,2,3	
11.62	81 TL	LB2	2	1.010	1,2,3		11.78	64 GD	LN	1	2.049	1,2,3	
11.62	59 PR	LY5	1	2.020	1,2		11.79	76 OS	LY1	2	1.025	1,2,3	

MICA CRYSTAL, D# 9.98C ANGSTROMS						11.80 TO 12.11					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
11.80	75 RE	LY3	2	1.026	1,2,3	11.99	46 PD	KB3	4	0.521	1,2
11.82	96 CM	LB2	3	0.685	1	11.99	24 CR	KB3	1	2.085	1,2
11.82	79 AU	LB10	2	1.028	1,2	11.99	51 SB	KB1	5	0.417	1,2,3
11.82	74 W	LY4	2	1.028	1,2	11.99	88 RA	LY1	3	0.695	1,2,3
11.83	64 GC	LA2	1	2.057	1,2,3	11.99	24 CR	KB1	1	2.085	1,2,3
11.85	98 CF	LY1	4	0.515	1	12.00	67 HO	LL	1	2.086	1,2,3
11.85	87 FR	LA1	2	1.030	1,2,3	12.01	40 ZR	KB5	3	0.696	1
11.85	92 U	LB10	3	0.687	1,2	12.01	35 BR	KA2	2	1.044	1,2,3
11.87	75 RE	LY2	2	1.032	1,2,3	12.02	51 SB	KB3	5	0.418	1,2
11.89	46 PD	KB5	4	0.517	1	12.02	33 AS	KB2	2	1.045	1,2,3
11.89	49 IN	KA2	4	0.517	1,2,3	12.03	59 PR	LB7	1	2.091	1,2
11.89	80 HS	LB3	2	1.034	1,2,3	12.04	93 NP	LB1	3	0.698	1,2,3
11.90	40 ZR	KB2	3	0.690	1,2,3	12.07	80 HG	LB1	2	1.049	1,2,3
11.90	51 SB	KB5	5	0.414	1	12.07	33 AS	KB5	2	1.049	1,2
11.91	24 CR	KB5	1	2.071	1,2	12.08	59 PR	LB9	1	2.100	1,2
11.93	75 RE	LY6	2	1.037	1,2	12.08	79 AU	LB7	2	1.050	1,2
11.93	56 BA	LY4	1	2.075	1,2	12.08	54 XE	KA2	5	0.420	1,2,3
11.95	81 TL	LB4	2	1.039	1,2,3	12.08	81 TL	LB6	2	1.050	1,2,3
11.96	80 HG	LB2	2	1.040	1,2,3	12.09	25 MN	KA1	1	2.102	1,2,3
11.96	54 XE	KA1	5	0.416	1,2,3	12.10	95 AM	LB2	3	0.701	1,3
11.96	79 AU	LB5	2	1.040	1,2	12.10	91 PA	LB9	3	0.701	1,2
11.96	35 BR	KA1	2	1.040	1,2,3	12.10	60 ND	LB6	1	2.104	1,2,3
11.97	61 PM	LB1	1	2.081	1,2,3	12.11	40 ZR	KB1	3	0.702	1,2,3
11.99	87 FR	LA2	2	1.042	1	12.11	25 MN	KA2	1	2.106	1,2,3
11.99	46 PD	KB1	4	0.521	1,2,3	12.11	40 ZR	KB3	3	0.702	1,2

MICA CRYSTAL, D# 9.980 ANGSTROMS						12.12 TO 12.47					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
12.12	59 PR	LB10	1	2.107	1,2	12.29	74 W	LY2	2	1.068	1,2,3
12.13	78 PT	LB9	2	1.054	1,2	12.30	56 BA	LY2	1	2.138	1,2,3
12.14	58 CE	LY5	1	2.110	1,2	12.30	86 RN	LA2	2	1.069	1
12.16	76 OS	LY5	2	1.057	1,2	12.30	42 MC	KA2	3	0.713	1,2,3
12.16	86 RN	LA1	2	1.057	1	12.31	48 CD	KA1	4	0.535	1,2,3
12.16	33 AS	KB1	2	1.057	1,2,3	12.31	79 AU	LB2	2	1.070	1,2,3
12.17	33 AS	KB3	2	1.058	1,2	12.31	45 RH	KB2	4	0.535	1,2,3
12.18	83 BI	LN	2	1.059	1,2,3	12.32	57 LA	LY1	1	2.142	1,2,3
12.19	59 PR	LB2	1	2.119	1,2,3	12.33	78 PT	LB5	2	1.072	1,2
12.19	97 BK	LY1	4	0.530	1	12.33	80 HG	LB4	2	1.072	1,2,3
12.20	63 EU	LA1	1	2.121	1,2,3	12.36	74 W	LY6	2	1.074	1,2
12.21	75 RE	LY1	2	1.061	1,2,3	12.36	87 FR	LY1	3	0.716	1,2,3
12.22	78 PT	LB10	2	1.062	1,2	12.37	88 RA	LY5	3	0.717	1,2
12.22	91 PA	LB10	3	0.708	1,2	12.39	94 PU	LB2	3	0.718	1
12.22	74 W	LY3	2	1.062	1,2,3	12.40	48 CD	KA2	4	0.539	1,2,3
12.23	65 ND	LB3	1	2.126	1,2,3	12.41	66 DY	LL	1	2.158	1,2,3
12.23	42 MO	KA1	3	0.709	1,2,3	12.42	92 U	LB1	3	0.720	1,2,3
12.25	50 SN	KB2	5	0.426	1,2,3	12.42	50 SN	KB5	5	0.432	1
12.25	73 TA	LY4	2	1.065	1,2	12.42	80 HG	LB6	2	1.080	1,2,3
12.25	92 U	LB3	3	0.710	1,2,3	12.45	78 PT	LB7	2	1.082	1,2
12.26	63 EU	LN	1	2.131	1	12.45	45 RH	KB5	4	0.541	1
12.26	63 EU	LA2	1	2.132	1,2,3	12.45	53 I	KA1	5	0.433	1,2,3
12.27	56 BA	LY3	1	2.134	1,2,3	12.46	60 ND	LB4	1	2.167	1,2,3
12.27	92 U	LL	2	1.067	2,3	12.46	60 ND	LB1	1	2.167	1,2,3
12.29	79 AU	LB3	2	1.068	1,2,3	12.47	79 AU	LB1	2	1.084	1,2,3

MICA CRYSTAL, C# 9.980 ANGSTROMS						12.48 TO 12.82					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
12.48	90 TH	LB9	3	0.723	1,2	12.64	73 TA	LY3	2	1.099	1,2,3
12.48	85 AT	LA1	2	1.085	1	12.65	62 SM	LA1	1	2.199	1,2,3
12.51	55 CS	LY4	1	2.174	1,2	12.67	39 Y	KB5	3	0.734	1
12.51	50 SN	KB1	5	0.435	1,2,3	12.68	78 PT	LB2	2	1.102	1,2,3
12.53	92 U	LB5	3	0.726	1,2	12.68	57 LA	LY5	1	2.205	1,2
12.54	50 SN	KB3	5	0.436	1,2	12.69	72 HF	LY4	2	1.103	1,2
12.54	77 IR	LB9	2	1.090	1,2	12.70	78 PT	LB3	2	1.104	1,2,3
12.54	58 CE	LB7	1	2.180	1,2	12.70	93 NP	LB2	3	0.736	1,2,3
12.55	39 Y	KB4	3	0.727	2	12.70	92 U	LB7	3	0.736	1,2
12.55	91 PA	LL	2	1.091	1,2,3	12.71	58 CE	LB2	1	2.209	1,2,3
12.56	45 RH	KB3	4	0.546	1,2	12.71	62 SM	LA2	1	2.210	1,2,3
12.56	96 CM	LY1	4	0.546	1	12.71	73 TA	LY2	2	1.105	1,2,3
12.56	45 RH	KB1	4	0.546	1,2,3	12.71	34 SE	KA1	2	1.105	1,2,3
12.56	82 PB	LN	2	1.092	1,2,3	12.72	77 IR	LB5	2	1.106	1,2
12.58	39 Y	KB2	3	0.729	1,2,3	12.74	79 AU	LB4	2	1.107	1,2,3
12.59	75 RE	LY5	2	1.094	1,2	12.75	59 PR	LB3	1	2.217	1,2,3
12.59	58 CE	LB9	1	2.188	1,2	12.75	86 RN	LY1	3	0.739	1
12.60	90 TH	LB10	3	0.730	1,2	12.76	34 SE	KA2	2	1.109	1,2,3
12.60	59 PR	LB6	1	2.190	1,2,3	12.76	62 SM	LN	1	2.218	1,2,3
12.60	53 I	KA2	5	0.438	1,2,3	12.78	79 AU	LB6	2	1.111	1,2,3
12.62	77 IR	LB10	2	1.097	1,2	12.79	39 Y	KB3	3	0.741	1,2
12.62	85 AT	LA2	2	1.097	1	12.79	39 Y	KB1	3	0.741	1,2,3
12.63	58 CE	LB10	1	2.195	1,2	12.80	49 IN	KB2	5	0.445	1,2,3
12.63	91 PA	LB3	3	0.732	1,2,3	12.81	91 PA	LB1	3	0.742	1,2,3
12.64	74 W	LY1	2	1.099	1,2,3	12.82	73 TA	LY6	2	1.114	1,2

MICA CRYSTAL, D# 9.980 ANGSTROMS						12.82 TO 13.14					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
12.82	84 PO	LA1	2	1.114	1,2,3	12.99	32 GE	KB3	2	1.129	1,2
12.83	90 TH	LL	2	1.115	1,2,3	12.99	32 GE	KB1	2	1.129	1,2,3
12.83	77 IR	LB7	2	1.115	1,2	13.03	74 W	LY5	2	1.132	1,2
12.85	55 CS	LY3	1	2.233	1,2,3	13.03	92 U	LB2	3	0.755	1,2,3
12.85	65 TB	LL	1	2.234	1,2,3	13.03	91 PA	LB7	3	0.755	1,2
12.85	32 GE	KB2	2	1.117	1,2,3	13.03	90 TH	LB3	3	0.755	1,2,3
12.86	91 PA	LB5	3	0.745	1,2	13.04	76 OS	LB10	2	1.133	1,2
12.86	47 AG	KA1	4	0.559	1,2,3	13.05	23 V	KB5	1	2.269	1,2
12.87	55 CS	LY2	1	2.237	1,2,3	13.06	77 IR	LB2	2	1.135	1,2,3
12.88	32 GE	KB5	2	1.119	1,2	13.07	44 RU	KB5	4	0.568	1
12.88	41 NB	KA1	3	0.746	1,2,3	13.09	49 IN	KB1	5	0.455	1,2,3
12.89	78 PT	LB1	2	1.120	1,2,3	13.09	57 LA	LB7	1	2.275	1,2
12.89	56 BA	LY1	1	2.241	1,2,3	13.09	49 IN	KB3	5	0.455	1,2
12.91	92 U	LB4	3	0.748	1,2,3	13.09	72 HF	LY3	2	1.138	1,2,3
12.93	44 RU	KB2	4	0.562	1,2,3	13.09	73 TA	LY1	2	1.138	1,2,3
12.93	95 AM	LY1	4	0.562	1,3	13.12	76 OS	LB5	2	1.140	1,2
12.94	41 NB	KA2	3	0.750	1,2,3	13.12	52 TE	KA2	5	0.456	1,2,3
12.96	84 PO	LA2	2	1.126	1,2,3	13.12	58 CE	LB6	1	2.281	1,2,3
12.96	76 OS	LB9	2	1.126	1,2	13.13	57 LA	LB9	1	2.282	1,2
12.97	59 PR	LB4	1	2.255	1,2,3	13.13	77 IR	LB3	2	1.141	1,2,3
12.97	49 IN	KB5	5	0.451	1	13.14	61 PM	LA1	1	2.283	1,2,3
12.97	52 TE	KA1	5	0.451	1,2,3	13.14	83 BI	LY4	3	0.761	1,2
12.98	81 TL	LN	2	1.128	1,2,3	13.14	23 V	KB1	1	2.284	1,2,3
12.98	47 AG	KA2	4	0.564	1,2,3	13.14	23 V	KB3	1	2.284	1,2
12.99	59 PR	LB1	1	2.258	1,2,3	13.14	78 PT	LB4	2	1.142	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS						13.15 TO 13.57					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
13.15	71 LU	LY4	2	1.143	1	13.33	77 IR	LB1	2	1.158	1,2,3
13.16	78 PT	LB6	2	1.144	1,2,3	13.33	94 PU	LY1	4	0.579	1
13.16	72 HF	LY2	2	1.144	1,2,3	13.36	91 PA	LB2	3	0.774	1,2,3
13.16	83 BI	LA1	2	1.144	1,2,3	13.36	90 TH	LB7	3	0.774	1,2
13.16	44 RU	KB1	4	0.572	1,2,3	13.38	38 SR	KB5	3	0.775	1
13.17	85 AT	LY1	3	0.763	1	13.38	48 CD	KB2	5	0.465	1,2,3
13.18	57 LA	LB13	1	2.290	1,2	13.38	88 RA	LB10	3	0.775	1,2
13.18	24 CR	KA1	1	2.290	1,2,3	13.40	80 HG	LN	2	1.164	1,2,3
13.19	61 PM	LA2	1	2.292	1	13.41	75 RE	LB9	2	1.165	1,2
13.19	44 RU	KB3	4	0.573	1,2	13.43	88 RA	LL	2	1.167	1,2,3
13.19	84 PO	LY6	3	0.764	1,2	13.46	76 OS	LB2	2	1.170	1,2,3
13.19	84 PO	LY3	3	0.764	1,2,3	13.46	46 PD	KA1	4	0.585	1,2,3
13.20	24 CR	KA2	1	2.294	1,2,3	13.49	75 RE	LB10	2	1.172	1,2
13.20	90 TH	LB5	3	0.765	1,2	13.50	73 TA	LY5	2	1.173	1,2
13.20	90 TH	LB1	3	0.765	1,2,3	13.51	55 CS	LY1	1	2.348	1,2,3
13.22	76 OS	LB7	2	1.149	1,2	13.52	38 SR	KB1	3	0.783	1,2,3
13.25	57 LA	LB2	1	2.303	1,2,3	13.52	38 SR	KB3	3	0.783	1,2
13.27	88 RA	LB9	3	0.769	1,2	13.52	58 CE	LB4	1	2.349	1,2,3
13.28	56 BA	LY5	1	2.308	1,2	13.52	82 PB	LA1	2	1.175	1,2,3
13.29	83 BI	LA2	2	1.155	1,2,3	13.52	51 SB	KA1	5	0.470	1,2,3
13.29	91 PA	LB4	3	0.770	1,2,3	13.53	33 AS	KA1	2	1.176	1,2,3
13.29	72 HF	LY6	2	1.155	1,2	13.55	75 RE	LB5	2	1.177	1,2
13.30	58 CE	LB3	1	2.311	1,2,3	13.56	77 IR	LB6	2	1.178	1,2,3
13.30	64 GD	LL	1	2.312	1,2,3	13.56	58 CE	LB1	1	2.356	1,2,3
13.31	38 SR	KB2	3	0.771	1,2,3	13.57	72 HF	LY1	2	1.179	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS						13.57 TO 13.88					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
13.57	82 PB	LY4	3	0.786	1	13.69	90 TH	LB4	3	0.793	1,2,3
13.57	40 ZR	KA1	3	0.786	1,2,3	13.69	57 LA	LB6	1	2.379	1,2,3
13.57	71 LU	LY3	2	1.179	1,2,3	13.70	92 U	LY6	4	0.595	1,2
13.58	43 TC	KB4	4	0.590	1	13.70	48 CD	KB3	5	0.476	1,2
13.58	33 AS	KA2	2	1.180	1,2,3	13.70	60 ND	LA2	1	2.380	1,3
13.58	43 TC	KB2	4	0.590	1	13.71	90 TH	LB2	3	0.794	1,2,3
13.58	77 IR	LB4	2	1.180	1,2,3	13.74	56 BA	LB10	1	2.387	1,2
13.58	76 OS	LB3	2	1.180	1,2,3	13.74	83 BI	LY2	3	0.796	1,2,3
13.58	46 PD	KA2	4	0.590	1,2,3	13.74	93 NP	LY1	4	0.597	1,2,3
13.59	84 PD	LY1	3	0.787	1,2,3	13.76	53 I	LY4	1	2.391	1,2
13.60	92 U	LB6	3	0.788	1,2,3	13.77	31 GA	KB2	2	1.196	1,2,3
13.62	83 BI	LY3	3	0.789	1,2,3	13.77	92 U	LY3	4	0.598	1,2,3
13.62	89 AC	LB1	3	0.789	1	13.78	31 GA	KB5	2	1.197	1,2
13.64	83 BI	LY6	3	0.790	1,2	13.78	76 OS	LB1	2	1.197	1,2,3
13.64	60 ND	LA1	1	2.370	1,2,3	13.78	63 EU	LL	1	2.395	1,2,3
13.64	40 ZR	KA2	3	0.790	1,2,3	13.79	71 LU	LY6	2	1.198	1,2
13.64	71 LU	LY2	2	1.185	1,2,3	13.83	56 BA	LB2	1	2.404	1,2,3
13.64	70 YB	LY4	2	1.185	1,2	13.83	43 TC	KB3	4	0.601	1,2
13.65	75 RE	LB7	2	1.186	1,2	13.85	79 AU	LN	2	1.203	1,2,3
13.65	82 PB	LA2	2	1.186	1,2,3	13.86	74 W	LB9	2	1.204	1,2
13.67	51 SB	KA2	5	0.475	1,2,3	13.86	43 TC	KB1	4	0.602	1,2,3
13.67	48 CD	KB1	5	0.475	1,2,3	13.86	60 ND	LN	1	2.409	1,2,3
13.67	98 CF	LA1	3	0.792	1	13.86	88 RA	LB3	3	0.803	1,2,3
13.67	56 BA	LB9	1	2.376	1,2	13.87	57 LA	LB3	1	2.410	1,2,3
13.67	91 PA	LY4	4	0.594	1,2	13.88	98 CF	LA2	3	0.804	1

MICA CRYSTAL, D# 9.980 ANGSTROMS						13.88 TO 14.23					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
13.88	98 CF	LB1	4	0.603	1	14.07	71 LU	LY1	2	1.222	1,2,3
13.89	81 TL	LA1	2	1.207	1,2,3	14.07	82 PB	LY3	3	0.815	1,2,3
13.89	75 RE	LB2	2	1.207	1,2,3	14.08	53 I	LY2	1	2.447	1,2,3
13.90	92 U	LN	3	0.805	1,2,3	14.08	53 I	LY3	1	2.447	1,2
13.90	31 GA	KB3	2	1.208	1,2	14.09	37 RB	KB2	3	0.816	1,2,3
13.90	31 GA	KB1	2	1.208	1,2,3	14.09	88 RA	LB7	3	0.816	1,2
13.91	55 CS	LY5	1	2.417	1,2	14.09	74 W	LB7	2	1.224	1,2
13.92	88 RA	LB5	3	0.806	1,2	14.09	57 LA	LB4	1	2.449	1,2,3
13.93	92 U	LY2	4	0.605	1,2,3	14.11	82 PB	LY6	3	0.817	1,2
13.95	74 W	LB10	2	1.212	1,2	14.11	91 PA	LY6	4	0.613	1,2
13.95	91 PA	LB6	3	0.808	1,2,3	14.11	45 RH	KA1	4	0.613	1,2,3
13.96	76 OS	LB6	2	1.213	1,2,3	14.13	50 SN	KA1	5	0.491	1,2,3
13.98	97 BK	LA1	3	0.810	1	14.15	70 YB	LY2	2	1.229	1,2,3
13.98	74 W	LB5	2	1.215	1,2	14.15	69 TM	LY4	2	1.229	1
13.98	72 HF	LY5	2	1.215	1,2	14.15	57 LA	LB1	1	2.458	1,2,3
14.01	47 AG	KB2	5	0.487	1,2,3	14.16	92 U	LY1	4	0.615	1,2,3
14.02	81 TL	LY4	3	0.812	1,2	14.17	54 XE	LY1	1	2.462	1
14.02	76 OS	LB4	2	1.218	1,2,3	14.18	82 PB	LY2	3	0.821	1,2,3
14.03	81 TL	LA2	2	1.219	1,2,3	14.18	59 PR	LA1	1	2.463	1,2,3
14.04	83 BI	LY1	3	0.813	1,2,3	14.19	47 AG	KB5	5	0.493	1
14.04	75 RE	LB3	2	1.220	1,2,3	14.19	37 RB	KB5	3	0.822	1
14.05	89 AC	LB2	3	0.814	1	14.19	97 BK	LA2	3	0.822	1
14.05	88 RA	LB1	3	0.814	1,2,3	14.20	91 PA	LY3	4	0.617	1,2,3
14.07	90 TH	LY4	4	0.611	1,2	14.23	45 RH	KA2	4	0.618	1,2,3
14.07	70 YB	LY3	2	1.222	1,2,3	14.23	59 PR	LA2	1	2.473	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS							14.25 TO 14.52						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
14.25	50 SN	KA2	5	0.495	1,2,3		14.38	39 Y	KA2	3	0.833	1,2,3	
14.26	55 CS	LB9	1	2.478	1,2		14.40	75 RE	LB6	2	1.251	1,2,3	
14.26	75 RE	LB1	2	1.239	1,2,3		14.41	23 V	KA1	1	2.503	1,2,3	
14.27	42 MO	KB4	4	0.620	2		14.42	88 RA	LB2	3	0.835	1,2,3	
14.29	62 SM	LL	1	2.482	1,2,3		14.42	80 HG	LA2	2	1.253	1,2,3	
14.29	80 HG	LA1	2	1.241	1,2,3		14.43	23 V	KA2	1	2.507	1,2,3	
14.29	56 BA	LB6	1	2.482	1,2,3		14.44	42 MC	KB5	4	0.627	1	
14.30	90 TH	LB6	3	0.828	1,2,3		14.44	73 TA	LB10	2	1.254	1,2	
14.30	97 BK	LB1	4	0.621	1		14.44	32 GE	KA1	2	1.254	1,2,3	
14.30	42 MO	KB2	4	0.621	1,2,3		14.45	73 TA	LB5	2	1.255	1,2	
14.30	55 CS	LB7	1	2.485	1,2		14.45	52 TE	LY4	1	2.511	1,2	
14.30	47 AG	KB1	5	0.497	1,2,3		14.45	55 CS	LB2	1	2.511	1,2,3	
14.31	78 PT	LN	2	1.243	1,2,3		14.46	59 PR	LN	1	2.512	1,2,3	
14.31	70 YB	LY6	2	1.243	1,2		14.47	22 TI	KB1	1	2.514	1,2,3	
14.31	37 RB	KB3	3	0.829	1,2		14.47	22 TI	KB3	1	2.514	1,2	
14.31	39 Y	KA1	3	0.829	1,2,3		14.48	52 GE	KA2	2	1.258	1,2,3	
14.31	37 RB	KB1	3	0.829	1,2,3		14.48	56 BA	LB3	1	2.516	1,2,3	
14.31	91 PA	LN	3	0.829	1,2,3		14.49	80 HG	LY4	3	0.839	1,2	
14.31	96 CM	LA1	3	0.829	1		14.49	83 BI	LY5	3	0.839	1,2	
14.33	74 W	LB2	2	1.245	1,2,3		14.49	75 RE	LB4	2	1.259	1,2,3	
14.33	47 AG	KB3	5	0.498	1,2		14.51	87 FR	LB1	3	0.840	1,2,3	
14.34	55 CS	LB10	1	2.492	1,2		14.51	71 LU	LY5	2	1.260	1,2	
14.34	73 TA	LB9	2	1.246	1,2		14.51	82 PB	LY1	3	0.840	1,2,3	
14.37	91 PA	LY2	4	0.624	1,2,3		14.52	88 RA	LB4	3	0.841	1,2,3	
14.38	22 TI	KB5	1	2.498	1,2		14.52	96 CM	LA2	3	0.841	1	

MICA CRYSTAL, D# 9.980 ANGSTROMS						14.52 TO 14.95					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
14.52	81 TL	LY3	3	0.841	1,2,3	14.78	56 BA	LB1	1	2.567	1,2,3
14.54	74 W	LB3	2	1.263	1,2,3	14.78	52 TE	LY3	1	2.567	1,2
14.55	90 TH	LY6	4	0.632	1,2	14.78	30 ZN	KB2	2	1.284	1,2,3
14.55	42 MG	KB1	4	0.632	1,2,3	14.78	77 IR	LN	2	1.284	1,2,3
14.55	73 TH	LB7	2	1.264	1,2	14.78	73 TA	LB2	2	1.284	1,2,3
14.58	81 TL	LY6	3	0.844	1,2	14.78	90 TH	LY2	4	0.642	1,2,3
14.58	42 MC	KB3	4	0.633	1,2	14.80	30 ZN	KB5	2	1.285	1,2
14.60	70 YB	LY1	2	1.268	1,2,3	14.80	58 CE	LA2	1	2.570	1,2,3
14.60	69 TM	LY3	2	1.268	1,2,3	14.81	44 RU	KA1	4	0.643	1,2,3
14.60	91 PA	LY1	4	0.634	1,2,3	14.82	87 FR	LB2	3	0.858	1,2,3
14.62	92 U	LY5	4	0.635	1,2	14.82	98 CF	LY1	5	0.515	1
14.64	81 TL	LY2	3	0.848	1,2,3	14.83	79 AU	LA2	2	1.288	1,2,3
14.64	90 TH	LY3	4	0.636	1,2,3	14.85	74 W	LB6	2	1.290	1,2,3
14.64	95 AM	LA1	3	0.848	1,3	14.85	72 HF	LB9	2	1.290	1,2
14.67	69 TM	LY2	2	1.274	1,2,3	14.85	95 AM	LA2	3	0.860	1,3
14.68	46 PJ	KB2	5	0.510	1,2,3	14.85	69 TM	LY6	2	1.290	1
14.69	79 AJ	LA1	2	1.276	1,3	14.86	53 I	LY1	1	2.582	1,2,3
14.69	68 ER	LY4	2	1.276	1,2	14.88	46 PD	KB5	5	0.517	1
14.71	56 BA	LB4	1	2.555	1,2,3	14.88	49 IN	KA2	5	0.517	1,2,3
14.71	96 CM	LB1	4	0.639	1	14.90	44 RU	KA2	4	0.647	1,2,3
14.74	49 IN	KA1	5	0.512	1,2,3	14.91	30 ZN	KB1	2	1.295	1,2,3
14.74	58 CE	LA1	1	2.561	1,2,3	14.93	55 CS	LB6	1	2.593	1,2,3
14.75	90 TH	LN	3	0.854	1,2,3	14.95	72 HF	LB10	2	1.298	1,2
14.76	74 W	LB1	2	1.282	1,2,3	14.95	88 RA	LY4	4	0.649	1,2
14.78	52 TE	LY2	1	2.567	1,3	14.95	72 HF	LB5	2	1.298	1,2

MICA CRYSTAL, D# 9.980 ANGSTROMS							14.96 TO 15.35					
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF
14.96	36 KR	KB2	3	0.866	1,2,3		15.13	55 CS	LB3	1	2.628	1,2,3
14.96	82 PB	LY5	3	0.866	1,2		15.14	68 ER	LY3	2	1.315	1,2,3
14.96	36 KR	KB4	3	0.866	2		15.14	69 TM	LY1	2	1.315	1,2,3
14.96	86 RN	LB1	3	0.866	1		15.15	95 AM	LB1	4	0.658	1,3
14.99	94 PU	LA1	3	0.868	1		15.15	83 BI	LL	2	1.316	1,2,3
14.99	74 W	LB4	2	1.302	1,2,3		15.17	36 KR	KB1	3	0.878	1,2,3
14.99	81 TL	LY1	3	0.868	1,2,3		15.18	38 SR	KA2	3	0.879	1,2,3
15.00	46 PD	KB1	5	0.521	1,2,3		15.18	36 KR	KB3	3	0.879	1,2
15.00	46 PD	KB3	5	0.521	1,2		15.19	51 SB	LY4	1	2.639	1,2
15.01	80 HG	LY3	3	0.869	1,2,3		15.20	94 PU	LA2	3	0.880	1
15.04	70 YB	LY5	2	1.306	1,2		15.20	41 NB	KB5	4	0.660	1
15.04	98 CF	LB2	4	0.653	1		15.21	68 ER	LY2	2	1.321	1,2,3
15.04	90 TH	LY1	4	0.653	1,2,3		15.22	86 RN	LB2	3	0.881	1
15.04	72 HF	LB7	2	1.306	1,2		15.22	67 HC	LY4	2	1.322	1,2
15.04	88 RA	LB6	3	0.871	1,2,3		15.25	78 PT	LA2	2	1.324	1,2,3
15.04	36 KR	KB5	3	0.871	1,2		15.26	97 BK	LY1	5	0.530	1
15.05	73 TA	LB3	2	1.307	1,2,3		15.27	72 HF	LB2	2	1.326	1,2,3
15.06	41 NB	KB2	4	0.654	1,2,3		15.28	73 TA	LB1	2	1.327	1,2,3
15.08	80 HG	LY6	3	0.873	1,2		15.29	76 OS	LN	2	1.328	1,2,3
15.08	58 CE	LN	1	2.620	1,2,3		15.30	53 I	LY5	1	2.657	1,2
15.08	91 PA	LY5	4	0.655	1,2		15.33	73 TA	LB6	2	1.331	1,2,3
15.11	80 HG	LY2	3	0.875	1,2,3		15.34	41 NB	KB3	4	0.666	1,2
15.11	38 SR	KA1	3	0.875	1,2,3		15.34	41 NB	KB1	4	0.666	1,2,3
15.12	78 PT	LA1	2	1.313	1,2,3		15.35	57 LA	LA1	1	2.665	1,2,3
15.12	54 XE	LB2	1	2.626	1		15.35	55 CS	LB4	1	2.666	1,2,3

MICA CRYSTAL, D# 9.98E ANGSTROMS							15.36 TO 15.71						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
15.36	93 NP	LA1	3	0.889	1,2,3		15.53	84 PO	LB5	3	0.899	1,2	
15.39	71 LU	LB9	2	1.336	1,2		15.54	71 LU	LB7	2	1.349	1,2	
15.40	57 LA	LA2	1	2.674	1,2,3		15.55	82 PB	LL	2	1.350	1,2,3	
15.40	45 FH	KB2	5	0.535	1,2,3		15.55	90 TH	LY5	4	0.675	1,2	
15.40	48 CD	KA1	5	0.535	1,2,3		15.55	88 RA	LY3	4	0.675	1,2,3	
15.41	97 BK	LB2	4	0.669	1		15.56	77 IR	LA1	2	1.351	1,2,3	
15.41	60 MD	LL	1	2.676	1,2,3		15.57	93 NP	LA2	3	0.901	1	
15.43	31 GA	KA1	2	1.340	1,2,3		15.57	43 TC	KA2	4	0.676	2,3	
15.44	85 AT	LB1	3	0.894	1		15.58	45 RH	KB5	5	0.541	1	
15.45	55 CS	LB1	1	2.683	1,2,3		15.58	72 HF	LB3	2	1.353	1,2,3	
15.46	71 LU	LB5	2	1.342	1,2		15.60	79 AU	LY6	3	0.903	1,2	
15.46	81 TL	LY5	3	0.895	1,2		15.61	69 TM	LY5	2	1.355	1,2	
15.47	71 LU	LB10	2	1.343	1,2		15.62	79 AU	LY2	3	0.904	1,2,3	
15.48	31 GA	KA2	2	1.344	1,2,3		15.62	52 TE	LY1	1	2.712	1,2,3	
15.50	80 HG	LY1	3	0.897	1,2,3		15.62	94 PU	LB1	4	0.678	1	
15.50	78 PT	LY4	3	0.897	1,2		15.62	53 I	LB9	1	2.713	1,2	
15.50	88 RA	LY6	4	0.673	1,2		15.63	83 BI	LB10	3	0.905	1,2	
15.50	43 TC	KA1	4	0.673	2,3		15.63	85 AT	LB2	3	0.905	1	
15.50	73 TA	LB4	2	1.346	1,2,3		15.66	53 I	LB10	1	2.720	1,2	
15.51	83 BI	LB9	3	0.898	1,2		15.67	88 RA	LN	3	0.907	1,2,3	
15.51	79 AU	LY3	3	0.898	1,2,3		15.69	92 U	LB9	4	0.681	1,2	
15.52	48 CD	KA2	5	0.539	1,2,3		15.69	77 IR	LA2	2	1.362	1,2,3	
15.52	51 SB	LY2	1	2.695	1,2,3		15.70	84 PO	LB3	3	0.909	1,2,3	
15.52	51 SB	LY3	1	2.695	1,2		15.71	88 RA	LY2	4	0.682	1,2,3	
15.52	89 AC	LY1	4	0.674	1		15.71	67 HO	LY3	2	1.364	1,2,3	

MICA CRYSTAL, D# 9.980 ANGSTROMS						15.71 TO 16.07					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
15.71	68 ER	LY1	2	1.364	1,2,3	15.94	70 YB	LB9	2	1.384	1,2
15.72	53 I	LB7	1	2.730	1,2	15.95	81 TL	LL	2	1.385	1,2,3
15.72	96 CM	LY1	5	0.546	1	15.97	80 HG	LY5	3	0.924	1,2
15.72	45 RH	KB1	5	0.546	1,2,3	15.98	70 YB	LB5	2	1.387	1,2
15.72	45 RH	KB3	5	0.546	1,2	15.98	35 BR	KB5	3	0.925	1,2
15.74	92 U	LA1	3	0.911	1,2,3	15.98	56 BA	LA1	1	2.775	1,2,3
15.78	67 HO	LY2	2	1.370	1,2,3	15.99	50 SN	LY4	1	2.777	1,2
15.78	71 LU	LB2	2	1.370	1,2,3	16.00	83 BI	LB5	3	0.926	1,2
15.78	96 CM	LB2	4	0.685	1	16.00	37 RB	KA1	3	0.926	1,2,3
15.78	57 LA	LN	1	2.740	1,2,3	16.01	88 RA	LY1	4	0.695	1,2,3
15.81	75 RE	LN	2	1.373	1,2,3	16.01	21 SC	KB1	1	2.780	1,2,3
15.83	72 HF	LB6	2	1.374	1,2,3	16.02	79 AU	LY1	3	0.927	1,2,3
15.83	92 U	LB10	4	0.687	1,2	16.02	77 IR	LY4	3	0.927	1,2
15.83	66 DY	LY4	2	1.374	1,2	16.02	82 PB	LB9	3	0.927	1,2
15.83	72 HF	LB1	2	1.374	1,2,3	16.02	76 OS	LA1	2	1.391	1,2,3
15.83	22 TI	KA1	1	2.748	1,2,3	16.02	70 YB	LB10	2	1.391	1,2
15.84	53 I	LB2	1	2.750	1,2,3	16.03	29 CU	KB1	2	1.392	1,2,3
15.85	22 TI	KA2	1	2.752	1,2,3	16.03	40 ZR	KB5	4	0.696	1
15.90	40 ZR	KB2	4	0.690	1,2,3	16.03	72 HF	LB4	2	1.392	1,2,3
15.91	29 CU	KB2	2	1.381	2,3	16.03	78 PT	LY3	3	0.928	1,2,3
15.91	35 BR	KB2	3	0.921	1,2,3	16.03	59 PR	LL	1	2.784	1,2,3
15.92	21 SC	KB5	1	2.764	1,2	16.04	56 BA	LA2	1	2.785	1,2,3
15.92	29 CU	KB5	2	1.382	2	16.05	29 CU	KB3	2	1.393	1,2
15.93	84 PO	LB1	3	0.922	1,2,3	16.05	84 PO	LB2	3	0.929	1,2,3
15.93	92 U	LA2	3	0.922	1,2,3	16.07	70 YB	LB7	2	1.395	1,2

MICA CRYSTAL, D# 9.980 ANGSTROMS							16.07 TO 16.50						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
16.07	37 RB	KA2	3	0.930	1,2,3		16.32	50 SN	LY2	1	2.833	1,3	
16.07	52 TE	LY5	1	2.790	1,2		16.32	66 DY	LY3	2	1.417	1,2,3	
16.08	93 NP	LB1	4	0.698	1,2,3		16.32	67 HO	LY1	2	1.417	1,2,3	
16.10	47 AG	KA1	5	0.559	1,2,3		16.33	91 PA	LA2	3	0.945	1,2,3	
16.12	35 BR	KB1	3	0.933	1,2,3		16.34	42 MC	KA1	4	0.709	1,2,3	
16.12	91 PA	LA1	3	0.933	1,2,3		16.34	53 I	LB6	1	2.837	1,2,3	
16.12	35 BR	KB3	3	0.933	1,2		16.35	71 LU	LB6	2	1.419	1,2,3	
16.14	78 PT	LY2	3	0.934	1,2,3		16.35	52 TE	LB9	1	2.839	1,2	
16.14	78 PT	LY6	3	0.934	1,2		16.36	92 U	LB3	4	0.710	1,2,3	
16.14	71 LU	LB3	2	1.401	1,2,3		16.36	44 RU	KB5	5	0.568	1	
16.14	82 PB	LB10	3	0.934	1,2		16.37	84 PO	LB4	3	0.947	1,2,3	
16.15	54 XE	LB1	1	2.803	1		16.37	74 W	LN	2	1.421	1,2,3	
16.15	95 AM	LB2	4	0.701	1,3		16.38	80 HG	LL	2	1.422	1,2,3	
16.15	76 OS	LA2	2	1.402	1,2,3		16.39	66 DY	LY2	2	1.423	1,2,3	
16.15	91 PA	LB9	4	0.701	1,2		16.40	52 TE	LB10	1	2.847	1,2	
16.16	83 BI	LB7	3	0.935	1,2		16.41	71 LU	LB1	2	1.424	1,2,3	
16.17	40 ZR	KB3	4	0.702	1,2		16.42	51 SB	LY1	1	2.851	1,2,3	
16.17	40 ZR	KB1	4	0.702	1,2,3		16.43	42 MC	KA2	4	0.713	1,2,3	
16.19	95 AM	LY1	5	0.562	1,3		16.44	65 TB	LY4	2	1.427	1,2	
16.19	44 RU	KB2	5	0.562	1,2,3		16.45	83 BI	LB1	3	0.952	1,2,3	
16.20	68 ER	LY5	2	1.406	1,2		16.47	82 PB	LB5	3	0.953	1,2	
16.23	83 BI	LB3	3	0.939	1,2,3		16.48	44 RU	KB1	5	0.572	1,2,3	
16.24	47 AG	KA2	5	0.564	1,2,3		16.49	56 BA	LN	1	2.862	1,2,3	
16.30	70 YB	LB2	2	1.415	1,2,3		16.49	52 TE	LB7	1	2.863	1,2	
16.31	91 PA	LB10	4	0.708	1,2		16.50	87 FR	LY1	4	0.716	1,2,3	

MICA CRYSTAL, D# 9.980 ANGSTROMS							16.50 TO 16.94						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
16.50	44 RU	KB3	5	0.573	1,2		16.68	77 IR	LY2	3	0.965	1,2,3	
16.50	83 BI	LB2	3	0.955	1,2,3		16.71	84 PC	LB6	3	0.967	1,2,3	
16.51	75 RE	LA1	2	1.433	1,2,3		16.71	77 IR	LY6	3	0.967	1,2	
16.52	79 AU	LY5	3	0.956	1,2		16.72	55 CS	LA2	1	2.902	1,2,3	
16.52	90 TH	LA1	3	0.956	1,2,3		16.73	70 YB	LB3	2	1.452	1,2,3	
16.52	88 RA	LY5	4	0.717	1,2		16.73	92 U	LB5	4	0.726	1,2	
16.53	30 ZN	KA1	2	1.435	1,2,3		16.73	90 TH	LA2	3	0.968	1,2,3	
16.54	81 TL	LB9	3	0.957	1,2		16.75	82 PB	LB3	3	0.969	1,2,3	
16.55	94 PU	LB2	4	0.718	1		16.75	39 Y	KB4	4	0.727	2	
16.56	53 I	LB3	1	2.874	1,2,3		16.78	53 I	LB4	1	2.912	1,2,3	
16.56	78 PT	LY1	3	0.958	1,2,3		16.80	39 Y	KB2	4	0.729	1,2,3	
16.57	76 OS	LY4	3	0.959	1,2		16.82	79 AU	LL	2	1.460	1,2,3	
16.57	77 IR	LY3	3	0.959	1,2,3		16.82	90 TH	LB10	4	0.730	1,2	
16.58	30 ZN	KA2	2	1.439	1,2,3		16.85	67 HC	LY5	2	1.462	1,2	
16.59	71 LU	LB4	2	1.440	1,2,3		16.85	46 PD	KA1	5	0.585	1,2,3	
16.59	92 U	LB1	4	0.720	1,2,3		16.86	49 IN	LY4	1	2.926	1,2	
16.60	69 TM	LB10	2	1.441	1		16.86	69 TM	LB2	2	1.463	1,2,3	
16.60	52 TE	LB2	1	2.882	1,2,3		16.87	91 PA	LB3	4	0.732	1,2,3	
16.63	82 PB	LB7	3	0.962	1,2		16.89	83 BI	LB4	3	0.977	1,2,3	
16.64	75 RE	LA2	2	1.444	1,2,3		16.89	51 SB	LY5	1	2.932	1,2	
16.66	90 TH	LB9	4	0.723	1,2		16.89	70 YB	LB6	2	1.466	1,2,3	
16.66	55 CS	LA1	1	2.892	1,2,3		16.92	39 Y	KB5	4	0.734	1	
16.66	81 TL	LB10	3	0.964	1,2		16.92	53 I	LB1	1	2.937	1,2,3	
16.66	58 CE	LL	1	2.892	1,2,3		16.94	89 AC	LA1	3	0.980	1	
16.68	94 PU	LY1	5	0.579	1		16.94	34 SE	KB2	3	0.980	1,2,3	

MICA CRYSTAL, D# 9.980 ANGSTROMS						16.94 TO 17.22					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
16.94	36 KR	KA1	3	0.980	1,2,3	17.11	81 TL	LB7	3	0.990	1,2
16.95	65 TB	LY3	2	1.471	1,2,3	17.11	91 PA	LY4	5	0.594	1,2
16.95	73 TA	LN	2	1.471	1,2,3	17.11	64 GD	LY4	2	1.485	1,2
16.96	81 TL	LB5	3	0.981	1,2	17.12	52 TE	LB6	1	2.971	1,2,3
16.96	92 U	LB7	4	0.736	1,2	17.13	51 SB	LB9	1	2.972	1,2
16.96	93 NP	LB2	4	0.736	1,2,3	17.13	77 IR	LY1	3	0.991	1,2,3
16.97	82 FB	LB1	3	0.982	1,2,3	17.14	74 W	LA2	2	1.487	1,2,3
16.97	66 DY	LY1	2	1.473	1,2,3	17.14	92 U	LY6	5	0.595	1,2
16.99	82 PB	LB2	3	0.983	1,2,3	17.15	76 OS	LY3	3	0.992	1,2,3
17.00	43 TC	KB2	5	0.590	1	17.15	34 SE	KB1	3	0.992	1,2,3
17.00	46 PD	KA2	5	0.590	1,2,3	17.15	75 RE	LY4	3	0.992	1,2
17.00	43 TC	KB4	5	0.590	1	17.15	89 AC	LA2	3	0.992	1
17.01	74 W	LA1	2	1.476	1,2,3	17.16	28 NI	KB5	2	1.489	1,2
17.01	73 YB	LB1	2	1.476	1,2,3	17.16	28 NI	KB2	2	1.489	1,2,3
17.01	34 SE	KB5	3	0.984	1,2	17.17	83 BI	LB6	3	0.993	1,2,3
17.01	36 KR	KA2	3	0.984	1,2,3	17.17	51 SB	LB10	1	2.979	1,2
17.02	65 TB	LY2	2	1.477	1,2,3	17.17	34 SE	KB3	3	0.993	1,2
17.03	71 LU	LN	2	1.478	1,2	17.17	49 IN	LY2	1	2.930	1,2,3
17.03	86 RN	LY1	4	0.739	1	17.17	91 PA	LB5	4	0.745	1,2
17.04	80 HG	LB9	3	0.986	1,2	17.17	49 IN	LY3	1	2.930	1,2
17.08	39 Y	KB1	4	0.741	1,2,3	17.18	70 YB	LB4	2	1.491	1,2,3
17.08	78 PT	LY5	3	0.988	1,2	17.20	41 NB	KA1	4	0.746	1,2,3
17.08	39 Y	KB3	4	0.741	1,2	17.20	93 NP	LY1	5	0.597	1,2,3
17.10	91 PA	LB1	4	0.742	1,2,3	17.22	68 ER	LB7	2	1.494	1,2
17.11	68 ER	LB9	2	1.485	1,2	17.22	68 ER	LB10	2	1.494	1,2

MICA CRYSTAL, D# 9.980 ANGSTROMS						17.22 TO 17.64					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
17.22	80 HG	LB10	3	0.996	1,2	17.43	92 U	LY2	5	0.605	1,2,3
17.23	92 U	LY3	5	0.598	1,2,3	17.43	54 XE	LA2	1	3.025	1
17.24	92 U	LB4	4	0.748	1,2,3	17.45	68 ER	LB2	2	1.514	1,2,3
17.25	55 CS	LN	1	2.993	1,2,3	17.46	69 TM	LB6	2	1.515	1,2,3
17.25	76 OS	LY2	3	0.998	1,2,3	17.46	80 HG	LB5	3	1.010	1,2
17.28	78 PT	LL	2	1.499	1,2,3	17.46	81 TL	LB2	3	1.010	1,2,3
17.29	28 NI	KB1	2	1.500	1,2,3	17.47	21 SC	KA1	1	3.031	1,2,3
17.29	41 NB	KA2	4	0.750	1,2,3	17.49	21 SC	KA2	1	3.035	1,2,3
17.29	50 SN	LY1	1	3.001	1,2,3	17.50	66 DY	LY5	2	1.518	1,2
17.31	76 OS	LY6	3	1.001	1,2	17.54	73 TA	LA1	2	1.522	1,2,3
17.31	81 TL	LB3	3	1.001	1,2,3	17.54	83 BI	LY4	4	0.761	1,2
17.32	51 SB	LB7	1	3.005	1	17.55	81 TL	LB1	3	1.015	1,2,3
17.32	43 TC	KB3	5	0.601	1,2	17.56	52 TE	LB4	1	3.046	1,2,3
17.32	57 LA	LL	1	3.006	1,2,3	17.56	72 HF	LN	2	1.523	1,2,3
17.34	52 TE	LB3	1	3.009	1,2,3	17.57	88 RA	LA2	3	1.016	1,2,3
17.35	43 TC	KB1	5	0.602	1,2,3	17.59	85 AT	LY1	4	0.763	1
17.35	69 TM	LB3	2	1.505	1,2,3	17.61	90 TH	LY4	5	0.611	1,2
17.38	88 RA	LA1	3	1.005	1,2,3	17.61	84 PO	LY6	4	0.764	1,2
17.38	54 XE	LA1	1	3.015	1	17.61	84 PC	LY3	4	0.764	1,2,3
17.38	98 CF	LB1	5	0.603	1	17.62	80 HG	LB7	3	1.019	1,2
17.40	90 TH	LB3	4	0.755	1,2,3	17.63	64 GO	LY3	2	1.529	1,2,3
17.40	92 U	LB2	4	0.755	1,2,3	17.64	69 TM	LB1	2	1.530	1,2,3
17.40	91 PA	LB7	4	0.755	1,2	17.64	90 TH	LB1	4	0.765	1,2,3
17.41	82 PB	LB4	3	1.007	1,2,3	17.64	90 TH	LB5	4	0.765	1,2
17.42	51 SB	LB2	1	3.023	1,2,3	17.64	65 TB	LY1	2	1.530	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS						17.65 TO 18.06					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
17.65	79 AU	LB9	3	1.021	1,2	17.81	87 FR	LA1	3	1.030	1,2,3
17.65	82 PB	LB6	3	1.021	1,2,3	17.81	20 CA	KB1	1	3.090	1,2,3
17.67	45 RH	KA1	5	0.613	1,2,3	17.85	91 PA	LB2	4	0.774	1,2,3
17.67	91 PA	LY6	5	0.613	1,2	17.85	90 TH	LB7	4	0.774	1,2
17.67	73 TA	LA2	2	1.533	1,2,3	17.85	75 RE	LY2	3	1.032	1,2,3
17.67	77 IR	LY5	3	1.022	1,2	17.86	67 HO	LB10	2	1.549	1
17.68	64 GD	LY2	2	1.534	1,2,3	17.87	38 SR	KB5	4	0.775	1
17.72	20 CA	KB5	1	3.074	1,2	17.87	88 RA	LB10	4	0.775	1,2
17.72	92 U	LY1	5	0.615	1,2,3	17.87	42 MO	KB4	5	0.620	2
17.72	76 OS	LY1	3	1.025	1,2,3	17.88	80 HG	LB3	3	1.034	1,2,3
17.73	88 RA	LB9	4	0.769	1,2	17.90	42 MC	KB2	5	0.621	1,2,3
17.74	52 TE	LB1	1	3.077	1,2,3	17.90	97 BK	LB1	5	0.621	1
17.74	75 RE	LY3	3	1.026	1,2,3	17.93	75 RE	LY6	3	1.037	1,2
17.75	91 PA	LB4	4	0.770	1,2,3	17.96	51 SB	LB6	1	3.115	1,2,3
17.76	77 IR	LL	2	1.541	1,2,3	17.96	50 SN	LB9	1	3.115	1,2
17.76	29 CU	KA1	2	1.541	1,2,3	17.97	81 TL	LB4	3	1.039	1,2,3
17.78	74 W	LY4	3	1.028	1,2	17.99	91 PA	LY2	5	0.624	1,2,3
17.78	79 AU	LB10	3	1.028	1,2	17.99	79 AU	LB5	3	1.040	1,2
17.78	38 SR	KB2	4	0.771	1,2,3	17.99	80 HG	LB2	3	1.040	1,2,3
17.78	91 PA	LY3	5	0.617	1,2,3	17.99	35 BR	KA1	3	1.040	1,2,3
17.78	50 SN	LY5	1	3.085	1,2	17.99	50 SN	LB10	1	3.121	1,2
17.80	29 CU	KA2	2	1.544	1,2,3	18.00	68 ER	LB3	2	1.561	1,2,3
17.80	63 EU	LY4	2	1.544	1,2	18.02	87 FR	LA2	3	1.042	1
17.80	69 TM	LB4	2	1.544	1,2,3	18.06	38 SR	KB1	4	0.783	1,2,3
17.81	45 RH	KA2	5	0.618	1,2,3	18.06	35 BR	KA2	3	1.044	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS							18.06 TO 18.36						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
18.06	38 SR	KB3	4	0.783	1,2		18.22	83 BI	LY6	4	0.790	1,2	
18.07	67 HO	LB2	2	1.567	1,2,3		18.22	42 MC	KB1	5	0.632	1,2,3	
18.07	68 ER	LB6	2	1.567	1,2,3		18.22	90 TH	LY6	5	0.632	1,2	
18.07	33 AS	KB2	3	1.045	1,2,3		18.22	72 HF	LA2	2	1.580	1,2,3	
18.07	42 MO	KB5	5	0.627	1		18.22	40 ZR	KA2	4	0.790	1,2,3	
18.07	56 BA	LL	1	3.135	1,2,3		18.23	49 IN	LY1	1	3.162	1,2,3	
18.08	48 CD	LY3	1	3.137	1,2		18.23	78 PT	LB9	3	1.054	1,2	
18.09	48 CD	LY2	1	3.138	1,2,3		18.25	42 MO	KB3	5	0.633	1,2	
18.09	72 HF	LA1	2	1.569	1,2,3		18.26	98 CF	LA1	4	0.792	1	
18.13	40 ZR	KA1	4	0.786	1,2,3		18.28	91 PA	LY1	5	0.634	1,2,3	
18.13	82 PB	LY4	4	0.786	1		18.28	76 OS	LL	2	1.585	1,2,3	
18.14	33 AS	KB5	3	1.049	1,2		18.28	33 AS	KB1	3	1.057	1,2,3	
18.14	80 HG	LB1	3	1.049	1,2,3		18.28	76 OS	LY5	3	1.057	1,2	
18.15	84 PO	LY1	4	0.787	1,2,3		18.28	86 RN	LA1	3	1.057	1	
18.15	53 I	LA1	1	3.148	1,2,3		18.29	90 TH	LB4	4	0.793	1,2,3	
18.16	79 AU	LB7	3	1.050	1,2		18.30	33 AS	KB3	3	1.058	1,2	
18.16	81 TL	LB6	3	1.050	1,2,3		18.30	68 ER	LB1	2	1.587	1,2,3	
18.17	92 U	LB6	4	0.788	1,2,3		18.31	50 SN	LB2	1	3.175	1,2,3	
18.17	51 SB	LB3	1	3.152	1,2,3		18.31	92 U	LY5	5	0.635	1,2	
18.18	65 TB	LB5	2	1.577	2		18.31	90 TH	LB2	4	0.794	1,2,3	
18.18	65 TB	LY5	2	1.577	1		18.32	83 BI	LN	3	1.059	1,2,3	
18.19	50 SN	LB7	1	3.155	1,2		18.33	90 TH	LY3	5	0.636	1,2,3	
18.19	83 BI	LY3	4	0.789	1,2,3		18.35	63 EU	LY3	2	1.591	1,2,3	
18.19	89 AC	LB1	4	0.789	1		18.35	75 RE	LY1	3	1.061	1,2,3	
18.21	53 I	LA2	1	3.158	1,2,3		18.36	64 GC	LY1	2	1.592	1,2,3	

MICA CRYSTAL, D# 9.980 ANGSTROMS						18.36 TO 18.82					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
18.36	83 BI	LY2	4	0.796	1,2,3	18.58	74 W	LY6	3	1.074	1,2
18.37	78 PT	LB10	3	1.062	1,2	18.59	88 RA	LB5	4	0.806	1,2
18.37	74 W	LY3	3	1.062	1,2,3	18.60	51 SB	LB1	1	3.226	1,2,3
18.39	51 SB	LB4	1	3.190	1,2,3	18.64	91 PA	LB6	4	0.808	1,2,3
18.42	63 EU	LY2	2	1.597	1,2,3	18.65	44 RU	KA2	5	0.647	1,2,3
18.42	96 CM	LB1	5	0.639	1	18.67	67 HO	LB3	2	1.619	1,2,3
18.42	73 TA	LY4	3	1.065	1,2	18.67	71 LU	LA1	2	1.619	1,2,3
18.44	66 DY	LB7	2	1.599	1,2	18.68	80 HG	LB6	3	1.080	1,2,3
18.45	66 DY	LB9	2	1.600	1	18.68	97 BK	LA1	4	0.810	1
18.46	92 U	LL	3	1.067	2,3	18.69	27 CO	KB1	2	1.621	1,2,3
18.46	68 ER	LB4	2	1.601	1,2,3	18.71	67 HO	LB6	2	1.622	1,2,3
18.47	79 AU	LB3	3	1.068	1,2,3	18.71	88 RA	LY4	5	0.649	1,2
18.47	74 W	LY2	3	1.068	1,2,3	18.72	66 DY	LB2	2	1.623	1,2,3
18.49	86 RN	LA2	3	1.069	1	18.72	78 PT	LB7	3	1.082	1,2
18.51	79 AU	LB2	3	1.070	1,2,3	18.73	81 TL	LY4	4	0.812	1,2
18.51	90 TH	LY2	5	0.642	1,2,3	18.74	49 IN	LY5	1	3.249	1,2
18.52	62 SM	LY4	2	1.606	1,2	18.75	79 AU	LB1	3	1.084	1,2,3
18.52	88 RA	LB3	4	0.803	1,2,3	18.75	83 BI	LY1	4	0.813	1,2,3
18.53	66 DY	LB10	2	1.607	1	18.77	85 AT	LA1	3	1.085	1
18.54	44 RU	KA1	5	0.643	1,2,3	18.78	88 RA	LB1	4	0.814	1,2,3
18.54	78 PT	LB5	3	1.072	1,2	18.78	89 AC	LB2	4	0.814	1
18.54	80 HG	LB4	3	1.072	1,2,3	18.80	71 LU	LA2	2	1.630	1,2,3
18.54	98 CF	LA2	4	0.804	1	18.80	75 RE	LL	2	1.630	1,2,3
18.56	27 CO	KB5	2	1.609	1,2	18.80	82 PB	LY3	4	0.815	1,2,3
18.57	92 U	LN	4	0.805	1,2,3	18.82	37 RB	KB2	4	0.816	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS						18.82 TO 19.14					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
18.82	88 RA	LB7	4	0.816	1,2	19.01	73 TA	LY3	3	1.099	1,2,3
18.83	98 CF	LB2	5	0.653	1	19.01	74 W	LY1	3	1.099	1,2,3
18.83	90 TH	LY1	5	0.653	1,2,3	19.02	52 TE	LA2	1	3.298	1,2,3
18.84	55 CS	LL	1	3.267	1,2,3	19.03	41 NB	KB5	5	0.660	1
18.85	49 IN	LB9	1	3.268	1,2	19.07	47 AG	LY3	1	3.306	1,2
18.85	82 PB	LY6	4	0.817	1,2	19.07	47 AG	LY2	1	3.306	1,3
18.85	50 SN	LB6	1	3.269	1,2,3	19.07	78 PT	LB2	3	1.102	1,2,3
18.86	41 NB	KB2	5	0.654	1,2,3	19.07	50 SN	LB3	1	3.306	1,2,3
18.86	77 IR	LB9	3	1.090	1,2	19.08	72 HF	LY4	3	1.103	1,2
18.87	70 YB	LN	2	1.636	1,2,3	19.09	62 SM	LY3	2	1.655	1,2,3
18.88	91 PA	LL	3	1.091	1,2,3	19.10	90 TH	LB6	4	0.828	1,2,3
18.88	49 IN	LB10	1	3.274	1,2	19.10	78 PT	LB3	3	1.104	1,2,3
18.89	91 PA	LY5	5	0.655	1,2	19.12	34 SE	KA1	3	1.105	1,2,3
18.89	82 PB	LN	3	1.092	1,2,3	19.12	73 TA	LY2	3	1.105	1,2,3
18.92	53 I	LN	1	3.280	1,2,3	19.13	39 Y	KA1	4	0.829	1,2,3
18.93	75 RE	LY5	3	1.094	1,2	19.13	28 NI	KA1	2	1.658	1,2,3
18.93	64 GD	LY5	2	1.641	1	19.13	96 CM	LA1	4	0.829	1
18.94	82 PB	LY2	4	0.821	1,2,3	19.13	63 EU	LY1	2	1.658	1,2,3
18.96	97 BK	LA2	4	0.822	1	19.13	37 RB	KB3	4	0.829	1,2
18.96	37 RB	KB5	4	0.822	1	19.13	37 RB	KB1	4	0.829	1,2,3
18.97	52 TE	LA1	1	3.289	1,2,3	19.13	91 PA	LN	4	0.829	1,2,3
18.97	95 AM	LB1	5	0.658	1,3	19.14	65 TB	LB7	2	1.659	1,2
18.98	77 IR	LB10	3	1.097	1,2	19.14	77 IR	LB5	3	1.106	1,2
18.98	85 AT	LA2	3	1.097	1	19.14	62 SM	LY2	2	1.659	1,2,3
19.00	67 HO	LB1	2	1.647	1,2,3	19.14	67 HC	LB4	2	1.659	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS							19.15 TO 19.57						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
19.15	79 AU	LB4	3	1.107	1,2,3		19.38	78 PT	LB1	3	1.120	1,2,3	
19.17	28 NI	KA2	2	1.662	1,2,3		19.38	82 PB	LY1	4	0.840	1,2,3	
19.19	34 SE	KA2	3	1.109	1,2,3		19.39	66 DY	LB6	2	1.681	1,2,3	
19.21	41 NB	KB3	5	0.666	1,2		19.39	66 DY	LB3	2	1.681	1,2,3	
19.21	41 NB	KB1	5	0.666	1,2,3		19.39	20 CA	KA2	1	3.362	1,2,3	
19.22	39 Y	KA2	4	0.833	1,2,3		19.41	88 RA	LB4	4	0.841	1,2,3	
19.22	79 AU	LB6	3	1.111	1,2,3		19.41	65 TB	LB2	2	1.682	1,2,3	
19.23	65 TB	LB10	2	1.667	1,2		19.41	96 CM	LA2	4	0.841	1	
19.24	48 CD	LY1	1	3.336	1,2,3		19.41	81 TL	LY3	4	0.841	1,2,3	
19.25	49 IN	LB2	1	3.338	1,2,3		19.41	43 TC	KA1	5	0.673	2,3	
19.27	88 RA	LB2	4	0.835	1,2,3		19.41	88 RA	LY6	5	0.673	1,2	
19.28	73 TA	LY6	3	1.114	1,2		19.42	70 YB	LA2	2	1.683	1,2,3	
19.28	84 PO	LA1	3	1.114	1,2,3		19.44	89 AC	LY1	5	0.674	1	
19.28	50 SN	LB4	1	3.343	1,2,3		19.47	90 TH	LY5	5	0.675	1,2	
19.29	70 YB	LA1	2	1.672	1,2,3		19.47	88 RA	LY3	5	0.675	1,2,3	
19.29	77 IR	LB7	3	1.115	1,2		19.47	81 TL	LY6	4	0.844	1,2	
19.29	97 BK	LB2	5	0.669	1		19.49	76 OS	LB9	3	1.126	1,2	
19.29	90 TH	LL	3	1.115	1,2,3		19.49	84 PC	LA2	3	1.126	1,2,3	
19.33	32 SE	KB2	3	1.117	1,2,3		19.50	43 TC	KA2	5	0.676	2,3	
19.36	80 HG	LY4	4	0.839	1,2		19.52	81 TL	LN	3	1.128	1,2,3	
19.36	83 BI	LY5	4	0.839	1,2		19.53	50 SN	LB1	1	3.385	1,2,3	
19.36	74 W	LL	2	1.678	1,2,3		19.54	32 GE	KB3	3	1.129	1,2	
19.36	32 GE	KB5	3	1.119	1,2		19.54	32 GE	KB1	3	1.129	1,2,3	
19.37	20 CA	KA1	1	3.358	1,2,3		19.56	94 PU	LB1	5	0.678	1	
19.38	87 FR	LB1	4	0.840	1,2,3		19.57	69 TM	LN	2	1.696	1,2,3	

MICA CRYSTAL, D# 9.98E ANGSTROMS						19.57 TO 19.99					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
19.57	81 TL	LY2	4	0.848	1,2,3	19.83	48 CD	LB10	1	3.437	1,2
19.57	95 AM	LA1	4	0.848	1,3	19.84	52 TE	LN	1	3.438	1,2,3
19.59	74 W	LY5	3	1.132	1,2	19.84	51 SB	LA1	1	3.439	1,2,3
19.61	76 OS	LB10	3	1.133	1,2	19.85	95 AM	LA2	4	0.860	1,3
19.64	77 IR	LB2	3	1.135	1,2,3	19.85	66 DY	LB4	2	1.720	1,2,3
19.64	92 U	LB9	5	0.681	1,2	19.85	19 K	KB5	1	3.441	1,2
19.67	88 RA	LY2	5	0.682	1,2,3	19.88	64 GD	LB7	2	1.723	1,2
19.70	73 TA	LY1	3	1.138	1,2,3	19.89	76 OS	LB7	3	1.149	1,2
19.73	72 HF	LY3	3	1.138	1,2,3	19.89	51 SB	LA2	1	3.448	1,2,3
19.71	63 EU	LY5	2	1.708	1,2	19.89	64 GD	LB9	2	1.724	1
19.71	90 TH	LN	4	0.854	1,2,3	19.91	40 ZR	KB2	5	0.690	1,2,3
19.73	66 DY	LB1	2	1.710	1,2,3	19.92	69 TM	LA1	2	1.726	1,2,3
19.73	76 OS	LB5	3	1.140	1,2	19.93	19 K	KB1	1	3.454	1,2,3
19.75	77 IR	LB3	3	1.141	1,2,3	19.93	62 SM	LY1	2	1.727	1,2,3
19.76	48 CD	LY5	1	3.425	1,2	19.94	73 TA	LL	2	1.728	1,2,3
19.76	96 CM	LB2	5	0.685	1	19.98	64 GD	LB10	2	1.731	1,2
19.77	78 PT	LB4	3	1.142	1,2,3	19.99	36 KR	KB4	4	0.866	2
19.78	71 LU	LY4	3	1.143	1	19.99	86 RN	LB1	4	0.866	1
19.79	48 CD	LB9	1	3.430	1,2	19.99	36 KR	KB2	4	0.866	1,2,3
19.80	78 PT	LB6	3	1.144	1,2,3	19.99	82 PB	LY5	4	0.866	1,2
19.80	72 HF	LY2	3	1.144	1,2,3	19.99	72 HF	LY6	3	1.155	1,2
19.80	83 BI	LA1	3	1.144	1,2,3	19.99	83 BI	LA2	3	1.155	1,2,3
19.80	87 FR	LB2	4	0.858	1,2,3						
19.82	92 U	LB10	5	0.687	1,2						
19.82	49 IN	LB6	1	3.436	1,2,3						

MICA CRYSTAL, D# 9.980 ANGSTROMS							20.02 TO 20.43					
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF
20.02	49 IN	LB3	1	3.470	1,2,3		20.23	91 PA	LB9	5	0.701	1,2
20.03	94 PU	LA1	4	0.868	1		20.24	49 IN	LB4	1	3.507	1,2,3
20.03	81 TL	LY1	4	0.868	1,2,3		20.26	76 OS	LB2	3	1.170	1,2,3
20.05	77 IR	LB1	3	1.158	1,2,3		20.26	40 ZR	KB3	5	0.702	1,2
20.05	69 TM	LA2	2	1.737	1,2,3		20.26	40 ZR	KB1	5	0.702	1,2,3
20.05	88 RA	LY1	5	0.695	1,2,3		20.27	68 ER	LN	2	1.756	1,2,3
20.06	80 HG	LY3	4	0.869	1,2,3		20.27	36 KR	KB1	4	0.878	1,2,3
20.08	40 ZR	KB5	5	0.696	1		20.28	48 CD	LB2	1	3.514	1,2,3
20.09	65 TB	LB6	2	1.741	1,2,3		20.28	26 FE	KB1	2	1.757	1,2,3
20.10	36 KR	KB5	4	0.871	1,2		20.29	36 KR	KB3	4	0.879	1,2
20.10	88 RA	LB6	4	0.871	1,2,3		20.29	38 SR	KA2	4	0.879	1,2,3
20.13	60 ND	LY4	2	1.744	1,2		20.29	75 RE	LB10	3	1.172	1,2
20.13	26 FE	KB5	2	1.744	1,2		20.31	73 TA	LY5	3	1.173	1,2
20.13	46 PD	LY3	1	3.489	1,2		20.31	94 PU	LA2	4	0.880	1
20.13	46 PD	LY2	1	3.489	1,2,3		20.33	47 AG	LY1	1	3.523	1,2,3
20.14	64 GD	LB2	2	1.745	1,2,3		20.34	86 RN	LB2	4	0.881	1
20.14	93 NP	LB1	5	0.698	1,2,3		20.34	82 PB	LA1	3	1.175	1,2,3
20.15	80 HG	LY6	4	0.873	1,2		20.36	33 AS	KA1	3	1.176	1,2,3
20.15	65 TB	LB3	2	1.746	1,2,3		20.38	75 RE	LB5	3	1.177	1,2
20.15	80 HG	LN	3	1.164	1,2,3		20.40	77 IR	LB6	3	1.178	1,2,3
20.17	75 RE	LB9	3	1.165	1,2		20.41	72 HF	LY1	3	1.179	1,2,3
20.20	80 HG	LY2	4	0.875	1,2,3		20.41	71 LU	LY3	3	1.179	1,2,3
20.20	38 SR	KA1	4	0.875	1,2,3		20.43	77 IR	LB4	3	1.180	1,2,3
20.20	88 RA	LL	3	1.167	1,2,3		20.43	76 OS	LB3	3	1.180	1,2,3
20.23	95 AM	LB2	5	0.701	1,3		20.43	33 AS	KA2	3	1.180	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS							20.43 TO 20.86						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
20.43	91 PA	LB10	5	0.708	1,2		20.71	78 PT	LY4	4	0.897	1,2	
20.46	42 MO	KA1	5	0.709	1,2,3		20.71	31 GA	KB2	3	1.196	1,2,3	
20.49	92 U	LB3	5	0.710	1,2,3		20.71	80 HG	LY1	4	0.897	1,2,3	
20.50	65 TB	LB1	2	1.776	1,2,3		20.72	94 PU	LB2	5	0.718	1	
20.52	70 YB	LY4	3	1.185	1,2		20.73	31 GA	KB5	3	1.197	1,2	
20.52	49 IN	LB1	1	3.555	1,2,3		20.73	76 OS	LB1	3	1.197	1,2,3	
20.52	71 LU	LY2	3	1.185	1,2,3		20.73	68 ER	LA2	2	1.796	1,2,3	
20.52	93 NP	LA1	4	0.889	1,2,3		20.73	79 AU	LY3	4	0.898	1,2,3	
20.53	53 I	LL	1	3.557	1,2,3		20.73	83 BI	LB9	4	0.898	1,2	
20.54	62 SM	LB5	2	1.779	2		20.73	60 ND	LY3	2	1.796	1,2,3	
20.54	62 SM	LY5	2	1.779	1		20.75	71 LU	LY6	3	1.198	1,2	
20.54	75 RE	LB7	3	1.186	1,2		20.76	84 PO	LB5	4	0.899	1,2	
20.54	82 PB	LA2	3	1.186	1,2,3		20.78	63 EU	LB10	2	1.800	1,2	
20.56	72 HF	LL	2	1.781	1,2,3		20.78	92 U	LB1	5	0.720	1,2,3	
20.58	42 MO	KA2	5	0.713	1,2,3		20.78	50 SN	LA1	1	3.600	1,2,3	
20.59	68 ER	LA1	2	1.784	1,2,3		20.79	60 ND	LY2	2	1.801	1,2,3	
20.61	65 TB	LB4	2	1.785	1,2,3		20.80	93 NP	LA2	4	0.901	1	
20.64	63 EU	LB7	2	1.788	1,2		20.81	47 AG	LB9	1	3.605	1,2	
20.64	85 AT	LB1	4	0.894	1		20.83	51 SB	LN	1	3.608	1,2,3	
20.65	27 CO	KA1	2	1.789	1,2,3		20.83	79 AU	LN	3	1.203	1,2,3	
20.66	81 TL	LY5	4	0.895	1,2		20.83	50 SN	LA2	1	3.609	1,2,3	
20.66	87 FR	LY1	5	0.716	1,2,3		20.85	47 AG	LB10	1	3.611	1,2	
20.69	63 EU	LB9	2	1.792	1,2		20.85	79 AU	LY6	4	0.903	1,2	
20.69	88 RA	LY5	5	0.717	1,2		20.85	74 W	LB9	3	1.204	1,2	
20.70	27 CO	KA2	2	1.793	1,2,3		20.86	64 GD	LB6	2	1.807	1,2,3	

MICA CRYSTAL, D# 9.980 ANGSTROMS						20.86 TO 21.34					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
20.86	48 CD	LB6	1	3.614	1,2,3	21.07	90 TH	LB10	5	0.730	1,2
20.87	90 TH	LB9	5	0.723	1,2	21.08	67 HC	LN	2	1.826	1,2,3
20.88	79 AU	LY2	4	0.904	1,2,3	21.10	76 OS	LB4	3	1.218	1,2,3
20.88	47 AG	LY5	1	3.616	1,2	21.11	81 TL	LA2	3	1.219	1,2,3
20.90	83 BI	LB10	4	0.905	1,2	21.13	75 RE	LB3	3	1.220	1,2,3
20.90	85 AT	LB2	4	0.905	1	21.13	91 PA	LB3	5	0.732	1,2,3
20.90	75 RE	LB2	3	1.207	1,2,3	21.17	70 YB	LY3	3	1.222	1,2,3
20.90	81 TL	LA1	3	1.207	1,2,3	21.17	71 LU	LY1	3	1.222	1,2,3
20.92	63 EU	LB2	2	1.812	1,2,3	21.19	39 Y	KB5	5	0.734	1
20.92	31 GA	KB1	3	1.208	1,2,3	21.20	74 W	LB7	3	1.224	1,2
20.92	31 GA	KB3	3	1.208	1,2	21.20	71 LU	LL	2	1.836	1,2,3
20.94	88 RA	LN	4	0.907	1,2,3	21.25	93 NP	LB2	5	0.736	1,2,3
20.96	64 GD	LB3	2	1.815	1,2,3	21.25	92 U	LB7	5	0.736	1,2
20.96	92 U	LB5	5	0.726	1,2	21.26	48 CD	LB4	1	3.682	1,2,3
20.97	61 PM	LY1	2	1.816	1	21.27	35 BR	KB2	4	0.921	1,2,3
20.99	39 Y	KB4	5	0.727	2	21.28	45 RH	LY2	1	3.685	1,2,3
20.99	84 PO	LB3	4	0.909	1,2,3	21.28	45 RH	LY3	1	3.685	1,2
20.99	74 W	LB10	3	1.212	1,2	21.29	70 YB	LY2	3	1.229	1,2,3
21.00	59 PR	LY4	2	1.819	1,2	21.29	69 TM	LY4	3	1.229	1
21.01	76 OS	LB6	3	1.213	1,2,3	21.29	92 U	LA2	4	0.922	1,2,3
21.04	92 U	LA1	4	0.911	1,2,3	21.29	84 PC	LB1	4	0.922	1,2,3
21.04	48 CD	LB3	1	3.645	1,2,3	21.31	67 HC	LA1	2	1.845	1,2,3
21.04	39 Y	KB2	5	0.729	1,2,3	21.32	64 GD	LB1	2	1.846	1,2,3
21.04	74 W	LB5	3	1.215	1,2	21.34	86 RN	LY1	5	0.739	1
21.04	72 HF	LY5	3	1.215	1,2	21.34	80 HG	LY5	4	0.924	1,2

MICA CRYSTAL, D# 9.980 ANGSTROMS						21.37 TO 21.73					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
21.37	35 BR	KB5	4	0.925	1,2	21.54	41 NB	KA1	5	0.746	1,2,3
21.38	47 AG	LB2	1	3.703	1,2,3	21.55	35 BR	KB1	4	0.933	1,2,3
21.39	37 RB	KA1	4	0.926	1,2,3	21.55	91 PA	LA1	4	0.933	1,2,3
21.39	83 BI	LB5	4	0.926	1,2	21.55	35 BR	KB3	4	0.933	1,2
21.39	39 Y	KB1	5	0.741	1,2,3	21.57	74 W	LB2	3	1.245	1,2,3
21.39	39 Y	KB3	5	0.741	1,2	21.58	78 PT	LY6	4	0.934	1,2
21.40	64 GD	LB4	2	1.853	1,2,3	21.58	82 PB	LB10	4	0.934	1,2
21.41	77 IR	LY4	4	0.927	1,2	21.58	78 PT	LY2	4	0.934	1,2,3
21.41	82 PB	LB9	4	0.927	1,2	21.59	62 SM	LB10	2	1.869	1,2
21.41	79 AU	LY1	4	0.927	1,2,3	21.59	48 CD	LB1	1	3.738	1,2,3
21.42	60 ND	LY6	2	1.855	2	21.59	73 TA	LB9	3	1.246	1,2
21.42	91 PA	LB1	5	0.742	1,2,3	21.60	92 U	LB4	5	0.748	1,2,3
21.44	67 HO	LA2	2	1.856	1,2,3	21.60	83 BI	LB7	4	0.935	1,2
21.44	78 PT	LY3	4	0.928	1,2,3	21.60	19 K	KA1	1	3.741	1,2,3
21.44	62 SM	LB7	2	1.856	1,2	21.63	19 K	KA2	1	3.745	1,2,3
21.46	84 PO	LB2	4	0.929	1,2,3	21.65	63 EU	LB6	2	1.874	1,2,3
21.46	52 TE	LL	1	3.717	1,2,3	21.65	59 PR	LY3	2	1.874	1,2,3
21.46	75 RE	LB1	3	1.239	1,2,3	21.66	41 NB	KA2	5	0.750	1,2,3
21.48	37 RB	KA2	4	0.930	1,2,3	21.67	75 RE	LB6	3	1.251	1,2,3
21.49	62 SM	LB9	2	1.861	1,2	21.69	83 BI	LB3	4	0.939	1,2,3
21.50	80 HG	LA1	3	1.241	1,2,3	21.69	60 ND	LY1	2	1.878	1,2,3
21.51	46 PD	LY1	1	3.724	1,2,3	21.70	59 PR	LY2	2	1.879	1,2,3
21.51	91 PA	LB5	5	0.745	1,2	21.71	80 HG	LA2	3	1.253	1,2,3
21.53	70 YB	LY6	3	1.243	1,2	21.73	73 TA	LB10	3	1.254	1,2
21.53	78 PT	LN	3	1.243	1,2,3	21.73	32 GE	KA1	3	1.254	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS							21.74 TO 22.21						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
21.74	62 SM	LB2	2	1.882	1,2,3		22.00	83 BI	LB1	4	0.952	1,2,3	
21.74	73 TA	LB5	3	1.255	1,2		22.00	47 AG	LB6	1	3.808	1,2,3	
21.77	49 IN	LA1	1	3.772	1,3		22.02	82 PB	LB5	4	0.953	1,2	
21.80	63 EU	LB3	2	1.887	1,2,3		22.04	85 AT	LY1	5	0.763	1	
21.80	32 GE	KA2	5	1.258	1,2,3		22.05	66 DY	LA1	2	1.909	1,2,3	
21.80	92 U	LB2	5	0.755	1,2,3		22.07	83 BI	LB2	4	0.955	1,2,3	
21.80	91 PA	LB7	5	0.755	1,2		22.07	84 PO	LY3	5	0.764	1,2,3	
21.80	93 TH	LB3	5	0.755	1,2,3		22.07	25 MN	KB1	2	1.910	1,2,3	
21.82	75 RE	LB4	3	1.259	1,2,3		22.07	84 PO	LY6	5	0.764	1,2	
21.83	71 LU	LY5	3	1.260	1,2		22.08	46 PD	LY5	1	3.822	1,2	
21.83	91 PA	LA2	4	0.945	1,2,3		22.08	69 TM	LY2	3	1.274	1,2,3	
21.84	49 IN	LA2	1	3.781	1,2,3		22.09	90 TH	LA1	4	0.956	1,2,3	
21.88	70 YB	LL	2	1.894	1,2,3		22.09	79 AU	LY5	4	0.956	1,2	
21.88	84 PO	LB4	4	0.947	1,2,3		22.10	90 TH	LB1	5	0.765	1,2,3	
21.89	50 SN	LN	1	3.789	1,2,3		22.10	90 TH	LB5	5	0.765	1,2	
21.89	74 W	LB3	3	1.263	1,2,3		22.11	81 TL	LB9	4	0.957	1,2	
21.90	73 TA	LB7	3	1.264	1,2		22.11	68 ER	LY4	3	1.276	1,2	
21.90	46 PD	LB9	1	3.792	1,2		22.11	79 AU	LA1	3	1.276	1,3	
21.91	66 DY	LN	2	1.897	1,2,3		22.14	78 PT	LY1	4	0.958	1,2,3	
21.91	25 MN	KB5	2	1.897	1,2		22.14	47 AG	LB3	1	3.833	1,2,3	
21.94	58 CE	LY4	2	1.899	1,2		22.16	76 OS	LY4	4	0.959	1,2	
21.94	46 PD	LB10	1	3.799	1,2		22.16	77 IR	LY3	4	0.959	1,2,3	
21.97	70 YB	LY1	3	1.268	1,2,3		22.18	63 EU	LB1	2	1.920	1,2,3	
21.97	69 TM	LY3	3	1.268	1,2,3		22.18	66 DY	LA2	2	1.920	1,2,3	
21.98	83 BI	LY4	5	0.761	1,2		22.21	88 RA	LB9	5	0.769	1,2	

MICA CRYSTAL, D# 9.980 ANGSTROMS						22.22 TO 22.65					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
22.22	74 W	LB1	3	1.282	1,2,3	22.39	82 PB	LB3	4	0.969	1,2,3
22.23	82 PB	LB7	4	0.962	1,2	22.42	26 FE	KA2	2	1.940	1,2,3
22.24	91 PA	LB4	5	0.770	1,2,3	22.44	18 A	KB1	1	3.884	1
22.25	63 EU	LB4	2	1.926	1,2,3	22.45	30 ZN	KB1	3	1.295	1,2,3
22.25	30 ZN	KB2	3	1.284	1,2,3	22.46	51 SB	LL	1	3.888	1,2,3
22.25	73 TA	LB2	3	1.284	1,2,3	22.49	62 SM	LB6	2	1.946	1,2,3
22.25	77 IR	LN	3	1.284	1,2,3	22.50	72 HF	LB10	3	1.298	1,2
22.27	38 SR	KB2	5	0.771	1,2,3	22.50	72 HF	LB5	3	1.298	1,2
22.27	30 ZN	KB5	3	1.285	1,2	22.52	44 RU	LY2	1	3.897	1,2,3
22.28	81 TL	LB10	4	0.964	1,2	22.52	44 RU	LY3	1	3.897	1,2
22.30	77 IR	LY2	4	0.965	1,2,3	22.57	74 W	LB4	3	1.302	1,2,3
22.32	79 AU	LA2	3	1.288	1,2,3	22.58	83 BI	LB4	4	0.977	1,2,3
22.35	77 IR	LY6	4	0.967	1,2	22.59	46 PD	LB2	1	3.909	1,2,3
22.35	84 PO	LB6	4	0.967	1,2,3	22.59	69 TM	LL	2	1.955	1,2,3
22.36	90 TH	LB7	5	0.774	1,2	22.59	92 U	MA1	1	3.910	1,2
22.36	91 PA	LB2	5	0.774	1,2,3	22.59	58 CE	LY3	2	1.955	1,2,3
22.36	72 HF	LB9	3	1.290	1,2	22.62	61 PM	LB2	2	1.957	1
22.36	74 W	LB6	3	1.290	1,2,3	22.62	38 SR	KB3	5	0.783	1,2
22.36	60 ND	LY5	2	1.935	1,2	22.62	38 SR	KB1	5	0.783	1,2,3
22.36	47 AG	LB4	1	3.870	1,2,3	22.64	70 YB	LY5	3	1.306	1,2
22.36	69 TM	LY6	3	1.290	1	22.64	72 HF	LB7	3	1.306	1,2
22.37	90 TH	LA2	4	0.968	1,2,3	22.65	34 SE	KB2	4	0.980	1,2,3
22.37	26 FE	KA1	2	1.936	1,2,3	22.65	89 AC	LA1	4	0.980	1
22.39	38 SR	KB5	5	0.775	1	22.65	36 KR	KA1	4	0.980	1,2,3
22.39	88 RA	LB10	5	0.775	1,2	22.65	58 CE	LY2	2	1.960	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS							22.66 TO 23.03						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
22.66	73 TA	LB3	3	1.327	1,2,3		22.83	65 TB	LA1	2	1.975	1,2,3	
22.66	59 PR	LY1	2	1.961	1,2,3		22.84	78 PT	LY5	4	0.988	1,2	
22.68	62 SM	LB3	2	1.962	1,2,3		22.86	48 CD	LA1	1	3.956	1,2,3	
22.68	81 TL	LB5	4	0.981	1,2		22.89	98 CF	LA1	5	0.792	1	
22.68	92 U	MA2	1	3.924	1,2		22.89	81 TL	LB7	4	0.990	1,2	
22.70	82 PB	LB1	4	0.982	1,2,3		22.90	68 ER	LY2	3	1.321	1,2,3	
22.71	41 ZR	KA1	5	0.786	1,2,3		22.91	77 IR	LY1	4	0.991	1,2,3	
22.71	82 PB	LY4	5	0.786	1		22.92	48 CD	LA2	1	3.965	1,2,3	
22.72	82 PB	LB2	4	0.983	1,2,3		22.92	90 TH	LB4	5	0.793	1,2,3	
22.73	47 AG	LB1	1	3.934	1,2,3		22.92	57 LA	LY4	2	1.933	1,2	
22.74	84 PO	LY1	5	0.787	1,2,3		22.92	67 HO	LY4	3	1.322	1,2	
22.75	34 SE	KB5	4	0.984	1,2		22.93	75 RE	LY4	4	0.992	1,2	
22.75	36 KR	KA2	4	0.984	1,2,3		22.93	89 AC	LA2	4	0.992	1	
22.76	78 PT	LA1	3	1.313	1,2,3		22.93	76 OS	LY3	4	0.992	1,2,3	
22.77	92 U	LB6	5	0.788	1,2,3		22.93	34 SE	KB1	4	0.992	1,2,3	
22.79	45 RH	LY1	1	3.943	1,2,3		22.94	90 TH	LB2	5	0.794	1,2,3	
22.79	80 HG	LB9	4	0.986	1,2		22.96	83 BI	LB6	4	0.993	1,2,3	
22.80	68 ER	LY3	3	1.315	1,2,3		22.96	34 SE	KB3	4	0.993	1,2	
22.80	83 BI	LY3	5	0.789	1,2,3		22.96	78 PT	LA2	3	1.324	1,2,3	
22.80	69 FM	LY1	3	1.315	1,2,3		22.96	65 TB	LA2	2	1.986	1,2,3	
22.80	89 AC	LB1	5	0.789	1		22.99	72 HF	LB2	3	1.326	1,2,3	
22.80	65 TB	LN	2	1.973	1		23.00	83 BI	LY2	5	0.796	1,2,3	
22.82	83 BI	LL	3	1.316	1,2,3		23.01	73 TA	LB1	3	1.327	1,2,3	
22.83	40 ZR	KA2	5	0.790	1,2,3		23.02	49 IN	LN	1	3.983	1,2,3	
22.83	83 BI	LY6	5	0.790	1,2		23.03	76 OS	LN	3	1.328	1,2,3	

MICA CRYSTAL, D# 9.98E ANGSTROMS							23.03 TO 23.59						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
23.03	80 HG	LB10	4	0.996	1,2		23.34	68 ER	LL	2	2.019	1,2,3	
23.07	76 OS	LY2	4	0.998	1,2,3		23.35	59 PR	LY5	2	2.020	1,2	
23.08	73 TA	LB6	3	1.331	1,2,3		23.35	91 PA	LB6	5	0.808	1,2,3	
23.10	62 SM	LB1	2	1.998	1,2,3		23.35	81 TL	LB2	4	1.010	1,2,3	
23.12	62 SM	LB4	2	2.000	1,2,3		23.35	80 HG	LB5	4	1.010	1,2	
23.14	81 TL	LB3	4	1.001	1,2,3		23.38	45 RH	LY5	1	4.045	1,2	
23.14	76 OS	LY6	4	1.001	1,2		23.39	60 ND	LB10	2	2.023	1,2	
23.17	71 LU	LB9	3	1.336	1,2		23.40	71 LU	LB7	3	1.349	1,2	
23.21	88 RA	LB3	5	0.803	1,2,3		23.41	82 PB	LL	3	1.350	1,2,3	
23.21	46 PD	LB6	1	4.016	1,2,3		23.41	97 BK	LA1	5	0.810	1	
23.23	60 ND	LB7	2	2.009	1,2		23.43	77 IR	LA1	3	1.351	1,2,3	
23.24	31 GA	KA1	3	1.340	1,2,3		23.47	72 HF	LB3	3	1.353	1,2,3	
23.24	88 RA	LA1	4	1.005	1,2,3		23.47	81 TL	LB1	4	1.015	1,2,3	
23.24	98 CF	LA2	5	0.804	1		23.47	81 TL	LY4	5	0.812	1,2	
23.25	91 PA	MA1	1	4.022	1,2		23.50	88 RA	LA2	4	1.016	1,2,3	
23.27	92 U	LN	5	0.805	1,2,3		23.50	69 TM	LY5	3	1.355	1,2	
23.27	71 LU	LB5	3	1.342	1,2		23.50	83 BI	LY1	5	0.813	1,2,3	
23.28	82 PB	LB4	4	1.007	1,2,3		23.53	88 RA	LB1	5	0.814	1,2,3	
23.29	71 LU	LB10	3	1.343	1,2		23.53	89 AC	LB2	5	0.814	1	
23.30	88 RA	LB5	5	0.806	1,2		23.54	50 SN	LL	1	4.071	1,2,3	
23.31	31 GA	KA2	3	1.344	1,2,3		23.54	46 PD	LB4	1	4.071	1,2,3	
23.31	60 ND	LB9	2	2.016	1,2		23.54	60 ND	LB2	2	2.036	1,2,3	
23.32	46 PD	LB3	1	4.034	1,2,3		23.56	82 PB	LY3	5	0.815	1,2,3	
23.33	91 PA	MA2	1	4.035	1,2		23.57	80 HG	LB7	4	1.019	1,2	
23.34	73 TA	LB4	3	1.346	1,2,3		23.59	37 RB	KB2	5	0.816	1,2,3	

MICA CRYSTAL, D# 9.98E ANGSTROMS							23.59 TO 24.06						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
23.59	88 RA	LB7	5	0.816	1,2		23.84	72 HF	LB6	3	1.374	1,2,3	
23.60	57 LA	LY3	2	2.041	1,2,3		23.84	72 HF	LB1	3	1.374	1,2,3	
23.61	79 AU	LB9	4	1.021	1,2		23.84	66 DY	LY4	3	1.374	1,2	
23.61	82 PB	LB6	4	1.021	1,2,3		23.87	75 RE	LY2	4	1.032	1,2,3	
23.62	82 PB	LY6	5	0.817	1,2		23.89	45 RH	LB2	1	4.131	1,2,3	
23.63	77 IR	LA2	3	1.362	1,2,3		23.92	80 HG	LB3	4	1.034	1,2,3	
23.64	77 IR	LY5	4	1.022	1,2		23.93	90 TH	MA1	1	4.138	1,2	
23.66	57 LA	LY2	2	2.046	1,2,3		23.94	90 TH	LB6	5	0.828	1,2,3	
23.66	64 GD	LA1	2	2.046	1,2,3		23.95	24 CR	KB5	2	2.071	1,2	
23.66	67 HO	LY3	3	1.364	1,2,3		23.96	29 CU	KB2	3	1.381	2,3	
23.66	68 ER	LY1	3	1.364	1,2,3		23.97	91 PA	LN	5	0.829	1,2,3	
23.68	58 CE	LY1	2	2.048	1,2,3		23.97	37 RB	KB1	5	0.829	1,2,3	
23.69	64 GD	LN	2	2.049	1,2,3		23.97	37 RB	KB3	5	0.829	1,2	
23.71	76 OS	LY1	4	1.025	1,2,3		23.97	39 Y	KA1	5	0.829	1,2,3	
23.73	75 RE	LY3	4	1.026	1,2,3		23.97	96 CM	LA1	5	0.829	1	
23.74	82 PB	LY2	5	0.821	1,2,3		23.98	46 PC	LB1	1	4.146	1,2,3	
23.77	71 LU	LB2	3	1.370	1,2,3		23.98	29 CU	KB5	3	1.382	2	
23.77	67 HO	LY2	3	1.370	1,2,3		23.99	75 RE	LY6	4	1.037	1,2	
23.77	97 BK	LA2	5	0.822	1		24.00	56 BA	LY4	2	2.075	1,2	
23.77	37 RB	KB5	5	0.822	1		24.01	90 TH	MA2	1	4.151	1,2	
23.78	79 AU	LB10	4	1.028	1,2		24.01	70 YB	LB9	3	1.384	1,2	
23.78	74 W	LY4	4	1.028	1,2		24.02	47 AG	LA1	1	4.154	1,2,3	
23.79	64 GD	LA2	2	2.057	1,2,3		24.03	81 TL	LL	3	1.395	1,2,3	
23.82	75 RE	LN	3	1.373	1,2,3		24.04	81 TL	LB4	4	1.039	1,2,3	
23.82	87 FR	LA1	4	1.030	1,2,3		24.06	35 BR	KA1	4	1.040	1,2,3	

MICA CRYSTAL, D# 9.98E, ANGSTROMS							24.06 TO 24.48						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
24.06	80 HG	LB2	4	1.040	1,2,3		24.26	80 HG	LY4	5	0.839	1,2	
24.06	79 AU	LB5	4	1.040	1,2		24.27	33 AS	KB5	4	1.049	1,2	
24.06	70 YB	LB5	3	1.387	1,2		24.27	80 HG	LB1	4	1.049	1,2,3	
24.07	61 PM	LB1	2	2.081	1,2,3		24.29	59 PR	LB9	2	2.100	1,2	
24.08	47 AG	LA2	1	4.163	1,2,3		24.29	87 FR	LB1	5	0.840	1,2,3	
24.09	39 Y	KA2	5	0.833	1,2,3		24.29	79 AU	LB7	4	1.050	1,2	
24.11	87 FR	LA2	4	1.042	1		24.29	81 TL	LB6	4	1.050	1,2,3	
24.12	24 CR	KB1	2	2.085	1,2,3		24.29	82 PB	LY1	5	0.840	1,2,3	
24.12	24 CR	KB3	2	2.085	1,2		24.31	71 LU	LB3	3	1.401	1,2,3	
24.13	67 HO	LL	2	2.086	1,2,3		24.32	25 MN	KA1	2	2.102	1,2,3	
24.14	76 OS	LA1	3	1.391	1,2,3		24.32	88 RA	LB4	5	0.841	1,2,3	
24.14	70 YB	LB10	3	1.391	1,2		24.32	96 CM	LA2	5	0.841	1	
24.15	88 RA	LB2	5	0.835	1,2,3		24.32	81 TL	LY3	5	0.841	1,2,3	
24.15	72 HF	LB4	3	1.392	1,2,3		24.33	76 OS	LA2	3	1.402	1,2,3	
24.15	35 BR	KA2	4	1.044	1,2,3		24.34	60 ND	LB6	2	2.104	1,2,3	
24.15	29 CU	KB1	3	1.392	1,2,3		24.36	25 MN	KA2	2	2.106	1,2,3	
24.17	29 CU	KB3	3	1.393	1,2		24.38	59 PR	LB10	2	2.107	1,2	
24.18	33 AS	KB2	4	1.045	1,2,3		24.39	78 PT	LB9	4	1.054	1,2	
24.19	59 PR	LB7	2	2.091	1,2		24.40	68 ER	LY5	3	1.406	1,2	
24.19	44 RU	LY1	1	4.182	1,2,3		24.41	58 CE	LY5	2	2.110	1,2	
24.21	70 YB	LB7	3	1.395	1,2		24.41	81 TL	LY6	5	0.844	1,2	
24.25	18 A	KA1	1	4.192	1,2,3		24.46	86 RN	LA1	4	1.057	1	
24.25	48 CD	LN	1	4.193	1,3		24.46	33 AS	KB1	4	1.057	1,2,3	
24.26	83 BI	LY5	5	0.839	1,2		24.46	76 OS	LY5	4	1.057	1,2	
24.26	18 A	KA2	1	4.195	1,2,3		24.48	33 AS	KB3	4	1.058	1,2	

MICA CRYSTAL, D# 9.990 ANGSTROMS						24.50 TO 25.06					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
24.50	83 BI	LN	4	1.059	1,2,3	24.72	74 W	LY2	4	1.068	1,2,3
24.52	59 PR	LB2	2	2.119	1,2,3	24.72	71 LU	LB1	3	1.424	1,2,3
24.53	95 AM	LA1	5	0.848	1,3	24.72	79 AU	LB3	4	1.068	1,2,3
24.53	81 TL	LY2	5	0.848	1,2,3	24.74	56 BA	LY2	2	2.138	1,2,3
24.54	63 EU	LA1	2	2.121	1,2,3	24.74	86 RN	LA2	4	1.069	1
24.54	45 RH	LB6	1	4.242	1,2,3	24.76	79 AU	LB2	4	1.070	1,2,3
24.55	75 RE	LY1	4	1.061	1,2,3	24.77	65 TB	LY4	3	1.427	1,2
24.56	75 YB	LB2	3	1.415	1,2,3	24.79	57 LA	LY1	2	2.142	1,2,3
24.58	78 PT	LB10	4	1.062	1,2	24.80	44 RU	LY5	1	4.287	1,2
24.58	74 W	LY3	4	1.062	1,2,3	24.81	80 HG	LB4	4	1.072	1,2,3
24.59	66 DY	LY3	3	1.417	1,2,3	24.81	78 PT	LB5	4	1.072	1,2
24.59	67 HO	LY1	3	1.417	1,2,3	24.82	45 RH	LB4	1	4.289	1,2,3
24.60	45 RH	LB3	1	4.252	1,2,3	24.82	87 FR	LB2	5	0.858	1,2,3
24.60	60 ND	LB3	2	2.126	1,2,3	24.86	74 W	LY6	4	1.074	1,2
24.63	71 LU	LB6	3	1.419	1,2,3	24.88	75 RE	LA1	3	1.433	1,2,3
24.65	73 TA	LY4	4	1.065	1,2	24.88	95 AM	LA2	5	0.860	1,3
24.66	63 EU	LN	2	2.131	1	24.91	30 ZN	KA1	3	1.435	1,2,3
24.66	74 W	LN	3	1.421	1,2,3	24.98	66 DY	LL	2	2.158	1,2,3
24.67	63 EU	LA2	2	2.132	1,2,3	24.98	30 ZN	KA2	3	1.439	1,2,3
24.68	80 HG	LL	3	1.422	1,2,3	25.00	80 HG	LB6	4	1.030	1,2,3
24.69	56 BA	LY3	2	2.134	1,2,3	25.00	71 LU	LB4	3	1.440	1,2,3
24.69	92 U	LL	4	1.067	2,3	25.02	69 TM	LB10	3	1.441	1
24.70	49 IN	LL	1	4.269	1,2,3	25.05	78 PT	LB7	4	1.082	1,2
24.70	66 DY	LY2	3	1.423	1,2,3	25.06	82 PB	LY5	5	0.866	1,2
24.70	90 TH	LN	5	0.854	1,2,3	25.06	36 KR	KB4	5	0.866	2

MICA CRYSTAL, D# 9.980 ANGSTROMS							25.06 TO 25.55						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
25.06	86 RN	LB1	5	0.866	1		25.33	46 PD	LA2	1	4.376	1,2,3	
25.06	36 KR	KB2	5	0.866	1,2,3		25.33	75 RE	LY5	4	1.094	1,2	
25.07	75 RE	LA2	3	1.444	1,2,3		25.35	59 PR	LB6	2	2.190	1,2,3	
25.08	60 ND	LB4	2	2.167	1,2,3		25.35	42 MC	LY3	1	4.380	1,2	
25.08	60 ND	LB1	2	2.167	1,2,3		25.35	42 MC	LY2	1	4.380	1,2,3	
25.09	79 AU	LB1	4	1.084	1,2,3		25.35	79 AU	LL	3	1.460	1,2,3	
25.12	85 AT	LA1	4	1.085	1		25.39	67 HO	LY5	3	1.462	1,2	
25.12	94 PU	LA1	5	0.868	1		25.40	77 IR	LB10	4	1.097	1,2	
25.12	81 TL	LY1	5	0.868	1,2,3		25.40	85 AT	LA2	4	1.097	1	
25.15	80 HG	LY3	5	0.869	1,2,3		25.40	69 TM	LB2	3	1.463	1,2,3	
25.16	55 CS	LY4	2	2.174	1,2		25.41	36 KR	KB1	5	0.878	1,2,3	
25.20	36 KR	KB5	5	0.871	1,2		25.41	58 CE	LB10	2	2.195	1,2	
25.20	88 RA	LB6	5	0.871	1,2,3		25.44	38 SR	KA2	5	0.879	1,2,3	
25.21	70 YB	LB3	3	1.452	1,2,3		25.44	36 KR	KB3	5	0.879	1,2	
25.23	77 IR	LB9	4	1.090	1,2		25.45	73 TA	LY3	4	1.099	1,2,3	
25.23	58 CE	LB7	2	2.180	1,2		25.45	74 W	LY1	4	1.099	1,2,3	
25.26	91 PA	LL	4	1.091	1,2,3		25.46	70 YB	LB6	3	1.466	1,2,3	
25.26	80 HG	LY6	5	0.873	1,2		25.46	62 SM	LA1	2	2.199	1,2,3	
25.28	82 PB	LN	4	1.092	1,2,3		25.47	94 PU	LA2	5	0.880	1	
25.28	46 PD	LA1	1	4.368	1,2,3		25.49	17 CL	KB1	1	4.403	1,2,3	
25.30	44 RU	LB2	1	4.372	1,2,3		25.50	86 RN	LB2	5	0.881	1	
25.32	45 RH	LB1	1	4.374	1,2,3		25.52	78 PT	LB2	4	1.102	1,2,3	
25.32	80 HG	LY2	5	0.875	1,2,3		25.53	57 LA	LY5	2	2.205	1,2	
25.32	38 SR	KA1	5	0.875	1,2,3		25.54	72 HF	LY4	4	1.103	1,2	
25.33	58 CE	LB9	2	2.188	1,2		25.55	65 TB	LY3	3	1.471	1,2,3	

MICA CRYSTAL, D# 9.98C ANGSTROMS						25.55 TO 26.04					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
25.55	73 TA	LN	3	1.471	1,2,3	25.82	90 TH	LL	4	1.115	1,2,3
25.56	78 FT	LB3	4	1.104	1,2,3	25.83	74 W	LA2	3	1.487	1,2,3
25.58	58 CE	LB2	2	2.209	1,2,3	25.86	55 CS	LY3	2	2.233	1,2,3
25.58	47 AG	LN	1	4.418	1,2,3	25.86	28 NI	KB2	3	1.489	1,2,3
25.58	66 DY	LY1	3	1.473	1,2,3	25.86	28 NI	KB5	3	1.489	1,2
25.59	73 TA	LY2	4	1.105	1,2,3	25.87	32 GE	KB2	4	1.117	1,2,3
25.59	62 SM	LA2	2	2.210	1,2,3	25.87	65 TB	LL	2	2.234	1,2,3
25.59	34 SE	KA1	4	1.105	1,2,3	25.88	85 AT	LB1	5	0.894	1
25.61	77 IR	LB5	4	1.106	1,2	25.90	70 YB	LB4	3	1.491	1,2,3
25.63	79 AU	LB4	4	1.107	1,2,3	25.91	55 CS	LY2	2	2.237	1,2,3
25.63	70 YB	LB1	3	1.476	1,2,3	25.91	81 TL	LY5	5	0.895	1,2
25.63	74 V	LA1	3	1.476	1,2,3	25.92	32 GE	KB5	4	1.119	1,2
25.65	65 FB	LY2	3	1.477	1,2,3	25.94	48 CD	LL	1	4.480	1,2,3
25.67	59 PR	LB3	2	2.217	1,2,3	25.94	78 PT	LB1	4	1.120	1,2,3
25.67	71 LU	LN	3	1.478	1,2	25.95	56 BA	LY1	2	2.241	1,2,3
25.68	34 SE	KA2	4	1.109	1,2,3	25.95	68 ER	LB7	3	1.494	1,2
25.68	62 SM	LN	2	2.218	1,2,3	25.95	68 ER	LB10	3	1.494	1,2
25.70	43 TC	LY1	1	4.440	1	25.97	80 HG	LY1	5	0.897	1,2,3
25.73	79 AU	LB6	4	1.111	1,2,3	25.97	78 PT	LY4	5	0.897	1,2
25.73	93 NP	LA1	5	0.889	1,2,3	25.98	44 RU	LB3	1	4.487	1,2,3
25.79	68 ER	LB9	3	1.485	1,2	25.98	44 RU	LB6	1	4.487	1,2,3
25.79	64 GD	LY4	3	1.485	1,2	26.00	83 BI	LB9	5	0.898	1,2
25.80	84 PO	LA1	4	1.114	1,2,3	26.00	79 AU	LY3	5	0.898	1,2,3
25.80	73 TA	LY6	4	1.114	1,2	26.03	84 PO	LB5	5	0.899	1,2
25.82	77 IR	LB7	4	1.115	1,2	26.04	78 PT	LL	3	1.499	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS						26.06 TO 26.63					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
26.06	28 NI	KB1	3	1.500	1,2,3	26.36	73 TA	LY1	4	1.138	1,2,3
26.08	76 OS	LB9	4	1.126	1,2	26.38	66 DY	LY5	3	1.518	1,2
26.08	84 PO	LA2	4	1.126	1,2,3	26.38	92 U	LA1	5	0.911	1,2,3
26.09	93 NP	LA2	5	0.901	1	26.41	76 OS	LB5	4	1.140	1,2
26.12	59 PR	LB4	2	2.255	1,2,3	26.42	58 CE	LB6	2	2.281	1,2,3
26.13	81 TL	LN	4	1.128	1,2,3	26.44	77 IR	LB3	4	1.141	1,2,3
26.15	69 TM	LB3	3	1.535	1,2,3	26.44	57 LA	LB9	2	2.282	1,2
26.15	79 AU	LY6	5	0.903	1,2	26.45	73 TA	LA1	3	1.522	1,2,3
26.15	32 GE	KB3	4	1.129	1,2	26.45	61 PM	LA1	2	2.283	1,2,3
26.15	59 PR	LB1	2	2.258	1,2,3	26.46	23 V	KB3	2	2.284	1,2
26.15	32 GE	KB1	4	1.129	1,2,3	26.46	78 PT	LB4	4	1.142	1,2,3
26.18	79 AU	LY2	5	0.904	1,2,3	26.46	23 V	KB1	2	2.284	1,2,3
26.19	44 RU	LB4	1	4.523	1,2,3	26.47	72 HF	LN	3	1.523	1,2,3
26.21	85 AT	LB2	5	0.905	1	26.48	71 LU	LY4	4	1.143	1
26.21	83 BI	LB10	5	0.905	1,2	26.51	72 HF	LY2	4	1.144	1,2,3
26.22	74 W	LY5	4	1.132	1,2	26.51	83 BI	LA1	4	1.144	1,2,3
26.25	76 OS	LB10	4	1.133	1,2	26.51	78 PT	LB6	4	1.144	1,2,3
26.26	88 RA	LN	5	0.907	1,2,3	26.53	57 LA	LB10	2	2.290	1,2
26.28	23 V	KB5	2	2.269	1,2	26.53	24 CR	KA1	2	2.290	1,2,3
26.29	77 IR	LB2	4	1.135	1,2,3	26.55	61 PM	LA2	2	2.292	1
26.31	68 ER	LB2	3	1.514	1,2,3	26.57	64 GD	LY3	3	1.529	1,2,3
26.32	69 TM	LB6	3	1.515	1,2,3	26.58	24 CR	KA2	2	2.294	1,2,3
26.32	84 PO	LB3	5	0.909	1,2,3	26.59	65 TB	LY1	3	1.530	1,2,3
26.35	57 LA	LB7	2	2.275	1,2	26.59	69 TM	LB1	3	1.530	1,2,3
26.36	72 HF	LY3	4	1.138	1,2,3	26.63	76 OS	LB7	4	1.149	1,2

MICA CRYSTAL, D# 9.980 ANGSTROMS						26.63 TO 27.21					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
26.63	45 RH	LA1	1	4.597	1,2,3	26.85	79 AU	LY1	5	0.927	1,2,3
26.64	73 TA	LA2	3	1.533	1,2,3	26.85	77 IR	LY4	5	0.927	1,2
26.66	64 GD	LY2	3	1.534	1,2,3	26.86	43 TC	LB2	1	4.636	1
26.68	35 BR	KB2	5	0.921	1,2,3	26.88	78 PT	LY3	5	0.928	1,2,3
26.68	45 RH	LA2	1	4.605	1,2,3	26.91	84 PD	LB2	5	0.929	1,2,3
26.68	57 LA	LB2	2	2.303	1,2,3	26.93	67 HC	LB10	3	1.549	1
26.71	84 PD	LB1	5	0.922	1,2,3	26.94	37 RB	KA2	5	0.930	1,2,3
26.71	92 U	LA2	5	0.922	1,2,3	26.97	41 NB	LY2	1	4.654	1,2,3
26.74	56 BA	LY5	2	2.308	1,2	26.97	41 NB	LY3	1	4.654	1,2
26.77	72 HF	LY6	4	1.155	1,2	26.98	80 HG	LN	4	1.164	1,2,3
26.77	82 HG	LY5	5	0.924	1,2	27.00	75 RE	LB9	4	1.165	1,2
26.77	83 BI	LA2	4	1.155	1,2,3	27.00	46 PD	LN	1	4.660	1,2,3
26.77	44 RU	LB1	1	4.620	1,2,3	27.03	35 BR	KB3	5	0.933	1,2
26.78	58 CE	LB3	2	2.311	1,2,3	27.03	91 PA	LA1	5	0.933	1,2,3
26.78	77 IR	LL	3	1.541	1,2,3	27.03	35 BR	KB1	5	0.933	1,2,3
26.78	29 CU	KA1	3	1.541	1,2,3	27.05	88 RA	LL	4	1.167	1,2,3
26.79	64 GD	LL	2	2.312	1,2,3	27.06	78 PT	LY6	5	0.934	1,2
26.80	35 BR	KB5	5	0.925	1,2	27.06	82 PB	LB10	5	0.934	1,2
26.82	83 BI	LB5	5	0.926	1,2	27.06	78 PT	LY2	5	0.934	1,2,3
26.82	37 RB	KA1	5	0.926	1,2,3	27.09	83 BI	LB7	5	0.935	1,2
26.84	29 CU	KA2	3	1.544	1,2,3	27.12	76 OS	LB2	4	1.170	1,2,3
26.84	77 IR	LB1	4	1.156	1,2,3	27.14	68 ER	LB3	3	1.561	1,2,3
26.84	69 TM	LB4	3	1.544	1,2,3	27.17	75 RE	LB10	4	1.172	1,2
26.84	63 EU	LY4	3	1.544	1,2	27.19	73 TA	LY5	4	1.173	1,2
26.85	82 PB	LB9	5	0.927	1,2	27.21	83 BI	LB3	5	0.939	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS							27.21 TO 27.78						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
27.21	55 CS	LY1	2	2.348	1,2,3		27.47	71 LU	LY2	4	1.185	1,2,3	
27.23	58 CE	LB4	2	2.349	1,2,3		27.47	60 ND	LA1	2	2.370	1,2,3	
27.24	82 PB	LA1	4	1.175	1,2,3		27.50	82 PB	LA2	4	1.186	1,2,3	
27.24	68 ER	LB6	3	1.567	1,2,3		27.50	75 RE	LB7	4	1.186	1,2	
27.24	67 HO	LB2	3	1.567	1,2,3		27.55	56 BA	LB9	2	2.376	1,2	
27.26	33 AS	KA1	4	1.176	1,2,3		27.56	76 OS	LL	3	1.585	1,2,3	
27.28	47 AG	LL	1	4.727	1,2,3		27.58	57 LA	LB6	2	2.379	1,2,3	
27.28	72 HF	LA1	3	1.569	1,2,3		27.59	83 BI	LB1	5	0.952	1,2,3	
27.29	75 RE	LB5	4	1.177	1,2		27.59	60 ND	LA2	2	2.380	1,3	
27.31	77 IR	LB6	4	1.178	1,2,3		27.60	68 ER	LB1	3	1.587	1,2,3	
27.31	58 CE	LB1	2	2.356	1,2,3		27.62	82 PB	LB5	5	0.953	1,2	
27.33	71 LU	LY3	4	1.179	1,2,3		27.67	63 EU	LY3	3	1.591	1,2,3	
27.33	72 HF	LY1	4	1.179	1,2,3		27.68	56 BA	LB10	2	2.387	1,2	
27.36	33 AS	KA2	4	1.180	1,2,3		27.68	83 BI	LB2	5	0.955	1,2,3	
27.36	76 OS	LB3	4	1.180	1,2,3		27.69	64 GD	LY1	3	1.592	1,2,3	
27.36	77 IR	LB4	4	1.180	1,2,3		27.71	90 TH	LA1	5	0.956	1,2,3	
27.39	91 PA	LA2	5	0.945	1,2,3		27.71	79 AU	LY5	5	0.956	1,2	
27.39	42 MO	LY1	1	4.726	1,2,3		27.72	53 I	LY4	2	2.391	1,2	
27.40	17 CL	KA1	1	4.728	1,2,3		27.73	31 GA	KB2	4	1.196	1,2,3	
27.42	17 CL	KA2	1	4.730	1,2,3		27.74	81 TL	LB9	5	0.957	1,2	
27.42	65 TB	LB5	3	1.577	2		27.76	31 GA	KB5	4	1.197	1,2	
27.42	65 TB	LY5	3	1.577	1		27.76	76 OS	LB1	4	1.197	1,2,3	
27.45	84 PO	LB4	5	0.947	1,2,3		27.77	63 EU	LL	2	2.395	1,2,3	
27.47	72 HF	LA2	3	1.580	1,2,3		27.77	78 PT	LY1	5	0.958	1,2,3	
27.47	70 YB	LY4	4	1.185	1,2		27.78	63 EU	LY2	3	1.597	1,2,3	

MICA CRYSTAL, D# 9.980 ANGSTROMS							27.78 TO 28.40						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
27.78	71 LU	LY6	4	1.198	1,2		28.07	90 TH	LA2	5	0.968	1,2,3	
27.80	77 IR	LY3	5	0.959	1,2,3		28.10	82 PB	LB3	5	0.969	1,2,3	
27.80	76 OS	LY4	5	0.959	1,2		28.10	44 RU	LA1	1	4.846	1,2,3	
27.81	66 DY	LB7	3	1.599	1,2		28.11	74 W	LB10	4	1.212	1,2	
27.83	66 DY	LB9	3	1.600	1		28.14	76 OS	LB6	4	1.213	1,2,3	
27.85	68 ER	LB4	3	1.601	1,2,3		28.14	44 RU	LA2	1	4.853	1,2,3	
27.88	56 BA	LB2	2	2.404	1,2,3		28.17	67 HO	LB3	3	1.619	1,2,3	
27.89	82 PB	LB7	5	0.962	1,2		28.17	71 LU	LA1	3	1.619	1,2,3	
27.90	79 AU	LN	4	1.203	1,2,3		28.18	74 W	LB5	4	1.215	1,2	
27.92	74 W	LB9	4	1.204	1,2		28.18	72 HF	LY5	4	1.215	1,2	
27.94	60 ND	LN	2	2.409	1,2,3		28.20	27 CG	KB1	3	1.621	1,2,3	
27.94	62 SM	LY4	3	1.606	1,2		28.22	67 HO	LB6	3	1.622	1,2,3	
27.95	57 LA	LB3	2	2.410	1,2,3		28.24	66 DY	LB2	3	1.623	1,2,3	
27.95	81 TL	LB10	5	0.964	1,2		28.26	76 OS	LB4	4	1.218	1,2,3	
27.95	66 DY	LB10	3	1.607	1		28.28	81 TL	LA2	4	1.219	1,2,3	
27.98	77 IR	LY2	5	0.965	1,2,3		28.30	75 RE	LB3	4	1.220	1,2,3	
27.99	27 CO	KB5	3	1.609	1,2		28.33	43 TC	LB1	1	4.884	1	
28.00	81 TL	LA1	4	1.207	1,2,3		28.33	83 BT	LB4	5	0.977	1,2,3	
28.00	75 RE	LB2	4	1.207	1,2,3		28.35	70 YB	LY3	4	1.222	1,2,3	
28.02	31 GA	KB3	4	1.208	1,2		28.35	71 LU	LY1	4	1.222	1,2,3	
28.02	31 GA	KB1	4	1.208	1,2,3		28.36	75 RE	LL	3	1.630	1,2,3	
28.03	55 CS	LY5	2	2.417	1,2		28.36	71 LU	LA2	3	1.630	1,2,3	
28.04	84 PO	LB6	5	0.967	1,2,3		28.39	53 I	LY2	2	2.447	1,2,3	
28.04	77 IR	LY6	5	0.967	1,2		28.39	53 I	LY3	2	2.447	1,2	
28.05	42 MO	LY5	1	4.837	1,2		28.40	74 W	LB7	4	1.224	1,2	

MICA CRYSTAL, D# 9.980 ANGSTROMS						28.41 TO 28.92					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
28.41	57 LA	LB4	2	2.449	1,2,3	28.74	40 ZR	LY2	1	4.953	1,2,3
28.42	36 KR	KA1	5	0.980	1,2,3	28.75	77 IR	LY1	5	0.991	1,2,3
28.42	34 SE	KB2	5	0.980	1,2,3	28.75	75 RE	LB1	4	1.239	1,2,3
28.42	89 AC	LA1	5	0.980	1	28.75	55 CS	LB9	2	2.478	1,2
28.45	81 TL	LB5	5	0.981	1,2	28.78	75 RE	LY4	5	0.992	1,2
28.47	70 YB	LN	3	1.636	1,2,3	28.78	76 OS	LY3	5	0.992	1,2,3
28.48	82 PB	LB1	5	0.982	1,2,3	28.78	89 AC	LA2	5	0.992	1
28.51	82 PB	LB2	5	0.983	1,2,3	28.78	34 SE	KB1	5	0.992	1,2,3
28.52	57 LA	LB1	2	2.458	1,2,3	28.80	62 SM	LL	2	2.482	1,2,3
28.52	70 YB	LY2	4	1.229	1,2,3	28.80	56 BA	LB6	2	2.482	1,2,3
28.52	69 TM	LY4	4	1.229	1	28.80	80 HG	LA1	4	1.241	1,2,3
28.54	34 SE	KB5	5	0.984	1,2	28.81	62 SM	LY3	3	1.655	1,2,3
28.54	36 KR	KA2	5	0.984	1,2,3	28.81	83 BI	LB6	5	0.993	1,2,3
28.55	45 RH	LN	1	4.922	1,2,3	28.81	34 SE	KB3	5	0.993	1,2
28.56	64 GD	LY5	3	1.641	1	28.84	55 CS	LB7	2	2.485	1,2
28.56	42 MO	LB2	1	4.923	1,2,3	28.85	78 PT	LN	4	1.243	1,2,3
28.56	54 XE	LY1	2	2.462	1	28.85	70 YB	LY6	4	1.243	1,2
28.58	59 PR	LA1	2	2.463	1,2,3	28.86	63 EU	LY1	3	1.658	1,2,3
28.60	80 HG	LB9	5	0.986	1,2	28.86	28 NI	KA1	3	1.658	1,2,3
28.66	78 PT	LY5	5	0.988	1,2	28.88	62 SM	LY2	3	1.659	1,2,3
28.66	67 HO	LB1	3	1.647	1,2,3	28.88	67 HO	LB4	3	1.659	1,2,3
28.69	59 PR	LA2	2	2.473	1,2,3	28.88	65 TB	LB7	3	1.659	1,2
28.72	81 TL	LB7	5	0.990	1,2	28.90	80 HG	LB10	5	0.996	1,2
28.73	46 PD	LL	1	4.952	1,2,3	28.90	74 W	LB2	4	1.245	1,2,3
28.74	40 ZR	LY3	1	4.953	1,2	28.92	73 TA	LB9	4	1.246	1,2

MICA CRYSTAL, D# 9.980 ANGSTROMS						28.92 TO 29.64					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
28.92	55 CS	LB10	2	2.492	1,2	29.22	74 W	LL	3	1.678	1,2,3
28.93	28 NI	KA2	3	1.662	1,2,3	29.22	82 PB	LB4	5	1.007	1,2,3
28.95	76 OS	LY2	5	3.998	1,2,3	29.23	75 RE	LB4	4	1.259	1,2,3
28.99	22 TI	KB5	2	2.498	1,2	29.23	41 NB	LY1	1	5.036	1,2,3
29.02	65 TB	LB10	3	1.667	1,2	29.25	71 LU	LY5	4	1.260	1,2
29.04	75 RE	LB6	4	1.251	1,2,3	29.27	66 DY	LB3	3	1.681	1,2,3
29.04	76 OS	LY6	5	1.001	1,2	29.27	66 DY	LB6	3	1.681	1,2,3
29.04	81 TL	LB3	5	1.001	1,2,3	29.29	65 TB	LB2	3	1.682	1,2,3
29.05	23 V	KA1	2	2.503	1,2,3	29.30	42 MC	LB4	1	5.049	1,2,3
29.08	80 HG	LA2	4	1.253	1,2,3	29.30	42 MC	LB6	1	5.049	1,2,3
29.09	42 MC	LB3	1	5.013	1,2,3	29.30	70 YB	LA2	3	1.683	1,2,3
29.10	23 V	KA2	2	2.507	1,2,3	29.31	81 TL	LB2	5	1.010	1,2,3
29.11	32 GE	KA1	4	1.254	1,2,3	29.31	80 HG	LB5	5	1.010	1,2
29.11	70 YB	LA1	3	1.672	1,2,3	29.32	74 W	LB3	4	1.263	1,2,3
29.11	73 TA	LB10	4	1.254	1,2	29.35	73 TA	LB7	4	1.264	1,2
29.13	73 TA	LB5	4	1.255	1,2	29.44	69 TM	LY3	4	1.268	1,2,3
29.14	52 TE	LY4	2	2.511	1,2	29.44	70 YB	LY1	4	1.268	1,2,3
29.14	55 CS	LB2	2	2.511	1,2,3	29.46	81 TL	LB1	5	1.015	1,2,3
29.16	59 PR	LN	2	2.512	1,2,3	29.49	88 RA	LA2	5	1.016	1,2,3
29.16	88 RA	LA1	5	1.005	1,2,3	29.54	69 TM	LN	3	1.696	1,2,3
29.18	22 TI	KB3	2	2.514	1,2	29.58	80 HG	LB7	5	1.019	1,2
29.18	22 TI	KB1	2	2.514	1,2,3	29.58	69 TM	LY2	4	1.274	1,2,3
29.20	16 S	KB1	1	5.032	1,2,3	29.63	79 AU	LA1	4	1.276	1,3
29.20	32 GE	KA2	4	1.258	1,2,3	29.63	68 ER	LY4	4	1.276	1,2
29.20	56 EA	LB3	2	2.516	1,2,3	29.64	79 AU	LB9	5	1.021	1,2

MICA CRYSTAL, D# 9.98E ANGSTROMS							29.64 TO 30.23					
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF
29.64	82 PB	LB6	5	1.021	1,2,3		29.92	79 AU	LA2	4	1.288	1,2,3
29.67	77 IR	LY5	5	1.022	1,2		29.96	69 TM	LY6	4	1.290	1
29.67	56 BA	LB4	2	2.555	1,2,3		29.96	75 RE	LY2	5	1.032	1,2,3
29.69	43 TC	LA1	1	5.114	1		29.96	74 W	LB6	4	1.290	1,2,3
29.71	83 BI	MA1	1	5.118	1,2		29.96	66 DY	LB4	3	1.720	1,2,3
29.74	58 CE	LA1	2	2.561	1,2,3		29.96	72 HF	LB9	4	1.290	1,2
29.74	43 TC	LA2	1	5.123	1		29.99	53 I	LY1	2	2.582	1,2,3
29.75	63 EU	LY5	3	1.708	1,2		30.02	64 GD	LB7	3	1.723	1,2
29.76	76 OS	LY1	5	1.025	1,2,3		30.02	80 HG	LB3	5	1.034	1,2,3
29.77	74 W	LB1	4	1.282	1,2,3		30.04	64 GD	LB9	3	1.724	1
29.78	83 BI	MA2	1	5.129	1,2		30.06	42 MC	LB1	1	5.177	1,2,3
29.79	75 RE	LY3	5	1.026	1,2,3		30.07	69 TM	LA1	3	1.726	1,2,3
29.79	66 DY	LB1	3	1.710	1,2,3		30.08	30 ZN	KB1	4	1.295	1,2,3
29.81	56 BA	LB1	2	2.567	1,2,3		30.09	62 SM	LY1	3	1.727	1,2,3
29.81	52 TE	LY2	2	2.567	1,3		30.11	73 TA	LL	3	1.728	1,2,3
29.81	52 TE	LY3	2	2.567	1,2		30.11	75 RE	LY6	5	1.037	1,2
29.82	77 IR	LN	4	1.284	1,2,3		30.12	55 CS	LB6	2	2.593	1,2,3
29.82	30 ZN	KB2	4	1.284	1,2,3		30.15	72 HF	LB5	4	1.298	1,2
29.82	73 TA	LB2	4	1.284	1,2,3		30.15	72 HF	LB10	4	1.298	1,2
29.84	30 ZN	KB5	4	1.285	1,2		30.16	64 GD	LB10	3	1.731	1,2
29.84	58 CE	LA2	2	2.570	1,2,3		30.17	81 TL	LB4	5	1.039	1,2,3
29.84	79 AU	LB10	5	1.028	1,2		30.20	79 AU	LB5	5	1.040	1,2
29.84	74 W	LY4	5	1.028	1,2		30.20	80 HG	LB2	5	1.040	1,2,3
29.90	87 FR	LA1	5	1.030	1,2,3		30.20	35 BR	KA1	5	1.040	1,2,3
29.91	41 NB	LY5	1	5.151	1,2		30.23	44 RU	LN	1	5.205	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS						30.25 TO 30.88					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
30.25	74 W	LB4	4	1.332	1,2,3	30.58	83 BI	LL	4	1.316	1,2,3
30.26	87 FR	LA2	5	1.042	1	30.61	68 ER	LN	3	1.756	1,2,3
30.27	69 TM	LA2	3	1.737	1,2,3	30.62	78 PT	LB9	5	1.054	1,2
30.30	45 RH	LL	1	5.217	1,2,3	30.62	26 FE	KB1	3	1.757	1,2,3
30.32	35 BR	KA2	5	1.044	1,2,3	30.67	51 SB	LY4	2	2.639	1,2
30.34	65 TB	LB6	3	1.741	1,2,3	30.70	39 Y	LY2	1	5.283	1,2,3
30.34	70 YB	LY5	4	1.336	1,2	30.70	39 Y	LY3	1	5.283	2
30.34	72 HF	LB7	4	1.336	1,2	30.70	68 ER	LY2	4	1.321	1,2,3
30.35	33 AS	KB2	5	1.045	1,2,3	30.71	33 AS	KB1	5	1.057	1,2,3
30.37	73 TA	LB3	4	1.337	1,2,3	30.71	76 OS	LY5	5	1.057	1,2
30.39	26 FE	KB5	3	1.744	1,2	30.71	86 RN	LA1	5	1.057	1
30.39	60 ND	LY4	3	1.744	1,2	30.71	82 PB	MA1	1	5.285	1,2
30.4	64 GD	LB2	3	1.745	1,2,3	30.73	67 HG	LY4	4	1.322	1,2
30.43	41 NB	LB2	1	5.238	1,2,3	30.74	33 AS	KB3	5	1.058	1,2
30.43	65 TB	LB3	3	1.746	1,2,3	30.77	83 BI	LN	5	1.059	1,2,3
30.44	58 CE	LN	2	2.620	1,2,3	30.77	78 PT	LA2	4	1.324	1,2,3
30.47	33 AS	KB5	5	1.049	1,2	30.79	82 PB	MA2	1	5.299	1,2
30.47	80 HG	LB1	5	1.049	1,2,3	30.82	72 HF	LB2	4	1.326	1,2,3
30.50	79 AU	LB7	5	1.050	1,2	30.83	75 RE	LY1	5	1.061	1,2,3
30.50	81 TL	LB6	5	1.050	1,2,3	30.84	73 TA	LB1	4	1.327	1,2,3
30.51	78 PT	LA1	4	1.313	1,2,3	30.86	78 PT	LB10	5	1.062	1,2
30.51	54 XE	LB2	2	2.626	1	30.86	41 NB	LB3	1	5.310	1,2,3
30.52	55 CS	LB3	2	2.628	1,2,3	30.86	74 W	LY3	5	1.062	1,2,3
30.56	68 ER	LY3	4	1.315	1,2,3	30.87	76 OS	LN	4	1.328	1,2,3
30.56	69 TM	LY1	4	1.315	1,2,3	30.88	53 I	LY5	2	2.657	1,2

MICA CRYSTAL, D# 9.980 ANGSTROMS							30.94 TO 31.48						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
30.94	73 TA	LB6	4	1.331	1,2,3		31.20	27 CO	KA1	3	1.789	1,2,3	
30.95	73 TA	LY4	5	1.065	1,2		31.20	71 LU	LB5	4	1.342	1,2	
30.96	65 TB	LB1	3	1.776	1,2,3		31.21	74 W	LY6	5	1.074	1,2	
30.98	57 LA	LA1	2	2.665	1,2,3		31.23	16 S	KA1	1	5.372	1,2,3	
30.99	55 CS	LB4	2	2.666	1,2,3		31.23	71 LU	LB10	4	1.343	1,2	
31.01	92 U	LL	5	1.067	2,3		31.24	16 S	KA2	1	5.375	1,2,3	
31.02	62 SM	LB5	3	1.779	2		31.25	63 EU	LB9	3	1.792	1,2	
31.02	62 SM	LY5	3	1.779	1		31.25	31 GA	KA2	4	1.344	1,2,3	
31.03	74 W	LY2	5	1.068	1,2,3		31.27	27 CO	KA2	3	1.793	1,2,3	
31.03	79 AU	LB3	5	1.068	1,2,3		31.30	73 TA	LB4	4	1.346	1,2,3	
31.05	72 HF	LL	3	1.781	1,2,3		31.30	40 ZR	LY1	1	5.384	1,2,3	
31.06	71 LU	LB9	4	1.336	1,2		31.32	60 ND	LY3	3	1.796	1,2,3	
31.06	41 NB	LB4	1	5.345	1,2,3		31.32	68 ER	LA2	3	1.796	1,2,3	
31.06	86 RN	LA2	5	1.069	1		31.33	51 SB	LY3	2	2.695	1,2	
31.08	57 LA	LA2	2	2.674	1,2,3		31.33	51 SB	LY2	2	2.695	1,2,3	
31.09	79 AU	LB2	5	1.070	1,2,3		31.37	71 LU	LB7	4	1.349	1,2	
31.11	60 ND	LL	2	2.676	1,2,3		31.39	80 HG	LB6	5	1.080	1,2,3	
31.11	68 ER	LA1	3	1.784	1,2,3		31.39	63 EU	LB10	3	1.800	1,2	
31.13	65 TB	LB4	3	1.785	1,2,3		31.39	82 PB	LL	4	1.350	1,2,3	
31.15	80 HG	LB4	5	1.072	1,2,3		31.41	60 ND	LY2	3	1.801	1,2,3	
31.15	31 GA	KA1	4	1.340	1,2,3		31.42	77 IR	LA1	4	1.351	1,2,3	
31.15	78 PT	LB5	5	1.072	1,2		31.43	42 MC	LA1	1	5.406	1,2,3	
31.16	41 NB	LB6	1	5.361	1,2,3		31.45	78 PT	LB7	5	1.082	1,2	
31.18	63 EU	LB7	3	1.788	1,2		31.46	72 HF	LB3	4	1.353	1,2,3	
31.19	55 CS	LB1	2	2.683	1,2,3		31.48	42 MC	LA2	1	5.414	1,2,3	

MICA CRYSTAL, D# 9.980 ANGSTROMS							31.51 TO 32.20						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
31.51	69 TM	LY5	4	1.355	1,2		31.90	77 IR	LB10	5	1.097	1,2	
31.51	79 AU	LB1	5	1.084	1,2,3		31.90	85 AT	LA2	5	1.097	1	
31.52	64 GD	LB6	3	1.827	1,2,3		31.94	75 RE	LN	4	1.373	1,2,3	
31.54	52 TE	LY1	2	2.712	1,2,3		31.94	41 NB	LB1	1	5.492	1,2,3	
31.54	85 AT	LA1	5	1.085	1		31.96	74 W	LY1	5	1.099	1,2,3	
31.55	53 I	LB9	2	2.713	1,2		31.96	73 TA	LY3	5	1.099	1,2,3	
31.61	63 EU	LB2	3	1.812	1,2,3		31.97	72 HF	LB6	4	1.374	1,2,3	
31.63	53 I	LB10	2	2.720	1,2		31.97	66 OY	LY4	4	1.374	1,2	
31.66	64 GD	LB3	3	1.815	1,2,3		31.97	72 HF	LB1	4	1.374	1,2,3	
31.68	61 PM	LY1	3	1.816	1		31.97	22 TI	KA1	2	2.748	1,2,3	
31.68	77 IR	LA2	4	1.362	1,2,3		31.97	40 ZR	LY5	1	5.497	1,2	
31.69	77 IR	LB9	5	1.090	1,2		31.99	53 I	LB2	2	2.750	1,2,3	
31.72	91 PA	LL	5	1.091	1,2,3		32.01	44 RU	LL	1	5.503	1,2,3	
31.73	68 ER	LY1	4	1.364	1,2,3		32.01	22 TI	KA2	2	2.752	1,2,3	
31.73	67 HO	LY3	4	1.364	1,2,3		32.04	71 LU	LL	3	1.836	1,2,3	
31.73	59 PR	LY4	3	1.819	1,2		32.05	78 PT	LB2	5	1.102	1,2,3	
31.75	82 PB	LN	5	1.092	1,2,3		32.08	72 HF	LY4	5	1.103	1,2	
31.75	53 I	LB7	2	2.730	1,2		32.11	78 PT	LB3	5	1.104	1,2,3	
31.76	81 TL	MA1	1	5.461	1,2		32.13	29 CU	KB2	4	1.381	2,3	
31.81	75 RE	LY5	5	1.094	1,2		32.14	34 SE	KA1	5	1.105	1,2,3	
31.82	81 TL	MA2	1	5.472	1,2		32.14	73 TA	LY2	5	1.105	1,2,3	
31.86	67 HO	LN	3	1.826	1,2,3		32.16	29 CU	KB5	4	1.382	2	
31.87	71 LU	LB2	4	1.370	1,2,3		32.16	21 SC	KB5	2	2.764	1,2	
31.87	57 LA	LN	2	2.740	1,2,3		32.17	77 IR	LB5	5	1.106	1,2	
31.87	67 HO	LY2	4	1.370	1,2,3		32.20	67 HC	LA1	3	1.845	1,2,3	

MICA CRYSTAL, D# 9.980 ANGSTROMS						32.20 TO 32.86					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
32.20	79 AU	LB4	5	1.107	1,2,3	32.47	70 YB	LB7	4	1.395	1,2
32.20	70 YB	LB9	4	1.384	1,2	32.47	52 TE	LY5	2	2.790	1,2
32.22	64 GD	LB1	3	1.846	1,2,3	32.49	62 SM	LB9	3	1.861	1,2
32.23	81 TL	LL	4	1.385	1,2,3	32.50	32 GE	KB2	5	1.117	1,2,3
32.26	34 SE	KA2	5	1.109	1,2,3	32.50	40 ZR	LB2	1	5.586	2,3
32.28	70 YB	LB5	4	1.387	1,2	32.56	32 GE	KB5	5	1.119	1,2
32.29	56 BA	LA1	2	2.775	1,2,3	32.59	78 PT	LB1	5	1.120	1,2,3
32.31	50 SN	LY4	2	2.777	1,2	32.61	71 LU	LB3	4	1.401	1,2,3
32.32	79 AU	LB6	5	1.111	1,2,3	32.62	54 XE	LB1	2	2.803	1
32.34	64 GD	LB4	3	1.853	1,2,3	32.63	62 SM	LB10	3	1.869	1,2
32.35	21 SC	KB1	2	2.780	1,2,3	32.63	76 OS	LA2	4	1.402	1,2,3
32.37	70 YB	LB10	4	1.391	1,2	32.72	59 PR	LY3	3	1.874	1,2,3
32.37	76 OS	LA1	4	1.391	1,2,3	32.72	63 EU	LB6	3	1.874	1,2,3
32.38	60 ND	LY6	3	1.855	2	32.73	68 ER	LY5	4	1.406	1,2
32.40	59 PR	LL	2	2.784	1,2,3	32.77	76 OS	LB9	5	1.126	1,2
32.40	72 HF	LB4	4	1.392	1,2,3	32.77	84 PO	LA2	5	1.126	1,2,3
32.40	67 HO	LA2	3	1.856	1,2,3	32.78	40 ZR	LB3	1	5.633	1,2,3
32.40	29 CU	KB1	4	1.392	1,2,3	32.79	60 ND	LY1	3	1.878	1,2,3
32.40	62 SM	LB7	3	1.856	1,2	32.81	59 PR	LY2	3	1.879	1,2,3
32.41	84 PO	LA1	5	1.114	1,2,3	32.83	81 TL	LN	5	1.128	1,2,3
32.41	73 TA	LY6	5	1.114	1,2	32.85	38 SR	LY2	1	5.644	1,2,3
32.41	56 BA	LA2	2	2.785	1,2,3	32.85	38 SR	LY3	1	5.644	1,2
32.42	29 CU	KB3	4	1.393	1,2	32.86	32 GE	KB3	5	1.129	1,2
32.44	77 IR	LB7	5	1.115	1,2	32.86	32 GE	KB1	5	1.129	1,2,3
32.44	90 TH	LL	5	1.115	1,2,3	32.86	62 SM	LB2	3	1.882	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS						32.95 TO 33.57					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
32.95	74 W	LY5	5	1.132	1,2	33.19	76 OS	LB5	5	1.140	1,2
32.95	70 YB	LB2	4	1.415	1,2,3	33.20	51 SB	LY1	2	2.851	1,2,3
32.95	63 EU	LB3	3	1.887	1,2,3	33.22	77 IR	LB3	5	1.141	1,2,3
32.98	76 OS	LB10	5	1.133	1,2	33.23	65 TB	LY4	4	1.427	1,2
32.98	80 HG	MA2	1	5.666	1,2	33.25	78 PT	LB4	5	1.142	1,2,3
32.98	80 HG	MA1	1	5.666	1,2	33.25	40 ZR	LB6	1	5.710	1,2,3
32.98	50 SN	LY2	2	2.833	1,3	33.28	71 LU	LY4	5	1.143	1
32.99	66 DY	LY3	4	1.417	1,2,3	33.31	72 HF	LY2	5	1.144	1,2,3
32.99	40 ZR	LB4	1	5.668	1,2,3	33.31	78 PT	LB6	5	1.144	1,2,3
32.99	67 HO	LY1	4	1.417	1,2,3	33.31	83 BI	LA1	5	1.144	1,2,3
33.03	53 I	LB6	2	2.837	1,2,3	33.33	56 BA	LN	2	2.862	1,2,3
33.04	77 IR	LB2	5	1.135	1,2,3	33.33	41 NB	LA1	1	5.724	1,2,3
33.04	71 LU	LB6	4	1.419	1,2,3	33.34	52 TE	LB7	2	2.863	1,2
33.05	52 TE	LB9	2	2.839	1,2	33.35	66 DY	LA1	3	1.909	1,2,3
33.08	70 YB	LL	3	1.894	1,2,3	33.37	25 MN	KB1	3	1.910	1,2,3
33.09	74 W	LN	4	1.421	1,2,3	33.38	75 RE	LA1	4	1.433	1,2,3
33.11	80 HG	LL	4	1.422	1,2,3	33.38	41 NB	LA2	1	5.732	2,3
33.13	73 TA	LY1	5	1.138	1,2,3	33.43	30 ZN	KA1	4	1.435	1,2,3
33.13	72 HF	LY3	5	1.138	1,2,3	33.46	76 OS	LB7	5	1.149	1,2
33.13	25 MN	KB5	3	1.897	1,2	33.47	53 I	LB3	2	2.874	1,2,3
33.13	66 DY	LN	3	1.897	1,2,3	33.52	30 ZN	KA2	4	1.439	1,2,3
33.14	66 DY	LY2	4	1.423	1,2,3	33.55	63 EU	LB1	3	1.920	1,2,3
33.15	52 TE	LB10	2	2.847	1,2	33.55	66 DY	LA2	3	1.920	1,2,3
33.16	71 LU	LB1	4	1.424	1,2,3	33.55	71 LU	LB4	4	1.440	1,2,3
33.17	58 CE	LY4	3	1.899	1,2	33.57	52 TE	LB2	2	2.882	1,2,3

MICA CRYSTAL, D# 9.98E ANGSTROMS						33.57 TO 34.39					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
33.57	69 TM	LB10	4	1.441	1	34.10	49 IN	LY4	2	2.926	1,2
33.64	83 BI	LA2	5	1.155	1,2,3	34.10	69 TM	LB2	4	1.463	1,2,3
33.64	72 HF	LY6	5	1.155	1,2	34.11	79 AU	MA2	1	5.854	1,2
33.64	75 RE	LA2	4	1.444	1,2,3	34.15	75 RE	LB10	5	1.172	1,2
33.65	63 EU	LB4	3	1.926	1,2,3	34.17	70 YB	LB6	4	1.466	1,2,3
33.69	58 CE	LL	2	2.892	1,2,3	34.17	51 SB	LY5	2	2.932	1,2
33.69	55 CS	LA1	2	2.892	1,2,3	34.18	69 TM	LL	3	1.955	1,2,3
33.73	77 IR	LB1	5	1.158	1,2,3	34.18	58 CE	LY3	3	1.955	1,2,3
33.81	55 CS	LA2	2	2.902	1,2,3	34.18	73 TA	LY5	5	1.173	1,2
33.81	15 P	KB1	1	5.804	1,2,3	34.21	61 PM	LB2	3	1.957	1
33.82	60 ND	LY5	3	1.935	1,2	34.23	53 I	LB1	2	2.937	1,2,3
33.83	70 YB	LB3	4	1.452	1,2,3	34.24	39 Y	LY5	1	5.875	1,2
33.83	26 FE	KA1	3	1.936	1,2,3	34.24	82 PB	LA1	5	1.175	1,2,3
33.91	26 FE	KA2	3	1.940	1,2,3	34.27	58 CE	LY2	3	1.960	1,2,3
33.91	80 HG	LN	5	1.164	1,2,3	34.27	33 AS	KA1	5	1.176	1,2,3
33.93	53 I	LB4	2	2.912	1,2,3	34.28	59 PR	LY1	3	1.961	1,2,3
33.94	75 RE	LB9	5	1.165	1,2	34.29	73 TA	LN	4	1.471	1,2,3
34.00	88 RA	LL	5	1.167	1,2,3	34.29	65 TB	LY3	4	1.471	1,2,3
34.00	40 ZR	LB1	1	5.836	1,2,3	34.30	75 RE	LB5	5	1.177	1,2
34.01	62 SM	LB6	3	1.946	1,2,3	34.30	62 SM	LB3	3	1.962	1,2,3
34.03	79 AU	MA1	1	5.840	1,2	34.33	77 IR	LB6	5	1.178	1,2,3
34.03	79 AU	LL	4	1.460	1,2,3	34.34	66 DY	LY1	4	1.473	1,2,3
34.07	42 HO	LN	1	5.847	1,2,3	34.36	71 LU	LY3	5	1.179	1,2,3
34.07	67 HO	LY5	4	1.462	1,2	34.36	72 HF	LY1	5	1.179	1,2,3
34.09	76 OS	LB2	5	1.170	1,2,3	34.39	76 OS	LB3	5	1.180	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS						34.39 TO 35.23					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
34.39	77 IR	LB4	5	1.180	1,2,3	34.84	68 ER	LB7	4	1.494	1,2
34.39	33 AS	KA2	5	1.180	1,2,3	34.84	68 ER	LB10	4	1.494	1,2
34.41	70 YB	LB1	4	1.476	1,2,3	34.87	31 GA	KB2	5	1.196	1,2,3
34.41	74 W	LA1	4	1.476	1,2,3	34.88	39 Y	LB3	1	5.983	1,2,3
34.43	65 TB	LY2	4	1.477	1,2,3	34.90	76 OS	LB1	5	1.197	1,2,3
34.46	71 LU	LN	4	1.478	1,2	34.90	31 GA	KB5	5	1.197	1,2
34.50	65 TB	LN	3	1.973	1	34.90	55 CS	LN	2	2.993	1,2,3
34.54	65 TB	LA1	3	1.975	1,2,3	34.93	71 LU	LY6	5	1.198	1,2
34.54	71 LU	LY2	5	1.185	1,2,3	34.95	62 SM	LB1	3	1.998	1,2,3
34.54	70 YB	LY4	5	1.185	1,2	34.96	78 PT	LL	4	1.499	1,2,3
34.57	82 PB	LA2	5	1.186	1,2,3	34.99	28 NI	KB1	4	1.500	1,2,3
34.57	75 RE	LB7	5	1.186	1,2	34.99	62 SM	LB4	3	2.000	1,2,3
34.63	68 ER	LB9	4	1.485	1,2	35.00	50 SN	LY1	2	3.001	1,2,3
34.63	64 GD	LY4	4	1.485	1,2	35.05	51 SB	LB7	2	3.005	1
34.64	52 TE	LB6	2	2.971	1,2,3	35.06	57 LA	LL	2	3.006	1,2,3
34.65	51 SB	LB9	2	2.972	1,2	35.08	79 AU	LN	5	1.203	1,2,3
34.67	74 W	LA2	4	1.487	1,2,3	35.10	39 Y	LB4	1	6.018	1,2,3
34.68	57 LA	LY4	3	1.983	1,2	35.10	52 TE	LB3	2	3.009	1,2,3
34.72	28 NI	KB5	4	1.489	1,2	35.11	69 TM	LB3	4	1.505	1,2,3
34.72	28 NI	KB2	4	1.489	1,2,3	35.11	74 W	LB9	5	1.204	1,2
34.73	65 TB	LA2	3	1.986	1,2,3	35.15	60 ND	LB7	3	2.009	1,2
34.73	51 SB	LB10	2	2.979	1,2	35.17	54 XE	LA1	2	3.015	1
34.75	49 IN	LY2	2	2.980	1,2,3	35.20	75 RE	LB2	5	1.207	1,2,3
34.75	49 IN	LY3	2	2.980	1,2	35.20	81 TL	LA1	5	1.207	1,2,3
34.77	70 YB	LB4	4	1.491	1,2,3	35.23	31 GA	KB3	5	1.208	1,2

MICA CRYSTAL, D# 9.980 ANGSTROMS						35.23 TO 35.92					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
35.23	31 GA	KB1	5	1.208	1,2,3	35.54	52 TE	LB4	2	3.046	1,2,3
35.26	37 RB	LY3	1	6.045	1,2	35.55	39 Y	LB6	1	6.094	1,2,3
35.26	78 PT	MA1	1	6.046	1,2	35.56	81 TL	LA2	5	1.219	1,2,3
35.26	37 RB	LY2	1	6.046	1,2,3	35.59	75 RE	LB3	5	1.220	1,2,3
35.26	51 SB	LB2	2	3.023	1,2,3	35.64	60 ND	LB2	3	2.036	1,2,3
35.28	60 ND	LB9	3	2.016	1,2	35.65	70 YB	LY3	5	1.222	1,2,3
35.29	54 XE	LA2	2	3.025	1	35.65	71 LU	LY1	5	1.222	1,2,3
35.32	68 ER	LB2	4	1.514	1,2,3	35.69	64 GD	LY3	4	1.529	1,2,3
35.33	78 PT	MA2	1	6.057	1,2	35.71	69 TM	LB1	4	1.530	1,2,3
35.33	68 ER	LL	3	2.019	1,2,3	35.71	74 W	LB7	5	1.224	1,2
35.35	69 TM	LB6	4	1.515	1,2,3	35.71	65 TB	LY1	4	1.530	1,2,3
35.35	74 W	LB10	5	1.212	1,2	35.73	57 LA	LY3	3	2.041	1,2,3
35.35	59 PR	LY5	3	2.020	1,2	35.78	73 TA	LA2	4	1.533	1,2,3
35.36	21 SC	KA1	2	3.031	1,2,3	35.81	64 GD	LY2	4	1.534	1,2,3
35.38	76 OS	LB6	5	1.213	1,2,3	35.82	57 LA	LY2	3	2.046	1,2,3
35.40	60 ND	LB10	3	2.023	1,2	35.82	64 GD	LA1	3	2.046	1,2,3
35.41	21 SC	KA2	2	3.035	1,2,3	35.85	58 CE	LY1	3	2.048	1,2,3
35.41	40 ZR	LA1	1	6.070	1,2,3	35.86	70 YB	LY2	5	1.229	1,2,3
35.42	66 DY	LY5	4	1.518	1,2	35.86	69 TM	LY4	5	1.229	1
35.44	72 HF	LY5	5	1.215	1,2	35.87	64 GD	LN	3	2.049	1,2,3
35.44	74 W	LB5	5	1.215	1,2	35.88	20 CA	KB5	2	3.074	1,2
35.46	40 ZR	LA2	1	6.078	1,2,3	35.89	42 MC	LL	1	6.150	1,2,3
35.52	73 TA	LA1	4	1.522	1,2,3	35.92	52 TE	LB1	2	3.077	1,2,3
35.53	76 OS	LB4	5	1.218	1,2,3	35.92	15 P	KA1	1	6.155	1,2,3
35.54	72 HF	LN	4	1.523	1,2,3	35.92	15 P	KA2	1	6.155	1,2,3

MICA CRYSTAL, D# 9.98G ANGSTROMS						35.98 TO 36.85					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
35.98	29 CU	KA1	4	1.541	1,2,3	36.53	24 CR	KB1	3	2.085	1,2,3
35.98	77 IR	LL	4	1.541	1,2,3	36.53	75 RE	LB6	5	1.251	1,2,3
36.01	50 SN	LY5	2	3.085	1,2	36.54	67 HO	LL	3	2.086	1,2,3
36.02	64 GO	LA2	3	2.057	1,2,3	36.56	77 IR	MA1	1	6.261	1,2
36.05	29 CU	KA2	4	1.544	1,2,3	36.59	80 HG	LA2	5	1.253	1,2,3
36.05	63 EU	LY4	4	1.544	1,2	36.60	67 HO	LB2	4	1.567	1,2,3
36.05	69 TM	LB4	4	1.544	1,2,3	36.60	68 ER	LB6	4	1.567	1,2,3
36.07	20 CA	KB1	2	3.090	1,2,3	36.62	32 GE	KA1	5	1.254	1,2,3
36.16	75 RE	LB1	5	1.239	1,2,3	36.62	73 TA	LB10	5	1.254	1,2
36.17	67 HO	LB10	4	1.549	1	36.62	56 BA	LL	2	3.135	1,2,3
36.22	80 HG	LA1	5	1.241	1,2,3	36.63	59 PR	LB7	3	2.091	1,2
36.26	41 NB	LN	1	6.211	1,2,3	36.64	48 CD	LY3	2	3.137	1,2
36.27	39 Y	LB1	1	6.212	1,2,3	36.65	77 IR	MA2	1	6.275	1,2
36.27	24 CR	KB5	3	2.071	1,2	36.65	73 TA	LB5	5	1.255	1,2
36.28	78 PT	LN	5	1.243	1,2,3	36.65	48 CD	LY2	2	3.138	1,2,3
36.28	70 YB	LY6	5	1.243	1,2	36.65	72 HF	LA1	4	1.569	1,2,3
36.34	74 W	LB2	5	1.245	1,2,3	36.74	32 GE	KA2	5	1.258	1,2,3
36.34	56 BA	LY4	3	2.075	1,2	36.77	75 RE	LB4	5	1.259	1,2,3
36.38	51 SB	LB6	2	3.115	1,2,3	36.77	53 I	LA1	2	3.148	1,2,3
36.38	73 TA	LB9	5	1.246	1,2	36.77	38 SR	LY5	1	6.296	1,2
36.38	50 SN	LB9	2	3.115	1,2	36.80	71 LU	LY5	5	1.260	1,2
36.45	50 SN	LB10	2	3.121	1,2	36.80	59 PR	LB9	3	2.100	1,2
36.45	61 PM	LB1	3	2.081	1,2,3	36.82	51 SB	LB3	2	3.152	1,2,3
36.46	68 ER	LB3	4	1.561	1,2,3	36.83	25 MN	KA1	3	2.102	1,2,3
36.53	24 CR	KB3	3	2.085	1,2	36.85	65 TB	LB5	4	1.577	2

MICA CRYSTAL, D# 9.980 ANGSTROMS						36.85 TO 37.72					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
36.85	65 TB	LY5	4	1.577	1	37.28	79 AU	LA1	5	1.276	1,3
36.86	50 SN	LB7	2	3.155	1,2	37.33	63 EU	LY2	4	1.597	1,2,3
36.87	60 ND	LB6	3	2.104	1,2,3	37.36	63 EU	LN	3	2.131	1
36.89	74 W	LB3	5	1.263	1,2,3	37.38	66 DY	LB7	4	1.599	1,2
36.89	53 I	LA2	2	3.158	1,2,3	37.38	63 EU	LA2	3	2.132	1,2,3
36.91	25 MN	KA2	3	2.106	1,2,3	37.40	66 DY	LB9	4	1.600	1
36.92	72 HF	LA2	4	1.580	1,2,3	37.42	56 BA	LY3	3	2.134	1,2,3
36.92	73 TA	LB7	5	1.264	1,2	37.42	38 SR	LB4	1	6.403	1,2,3
36.92	59 PR	LB10	3	2.107	1,2	37.43	68 ER	LB4	4	1.601	1,2,3
36.94	49 IN	LY1	2	3.162	1,2,3	37.46	74 W	LB1	5	1.282	1,2,3
36.98	58 CE	LY5	3	2.110	1,2	37.49	56 BA	LY2	3	2.138	1,2,3
37.04	69 TM	LY3	5	1.268	1,2,3	37.52	30 ZN	K82	5	1.284	1,2,3
37.04	76 OS	LL	4	1.585	1,2,3	37.52	77 IR	LN	5	1.284	1,2,3
37.04	70 YB	LY1	5	1.268	1,2,3	37.52	73 TA	LB2	5	1.284	1,2,3
37.09	68 ER	LB1	4	1.587	1,2,3	37.55	62 SM	LY4	4	1.606	1,2
37.10	50 SN	LB2	2	3.175	1,2,3	37.55	30 ZN	K85	5	1.285	1,2
37.14	59 PR	LB2	3	2.119	1,2,3	37.56	57 LA	LY1	3	2.142	1,2,3
37.18	63 EU	LA1	3	2.121	1,2,3	37.57	66 DY	LB10	4	1.607	1
37.18	63 EU	LY3	4	1.591	1,2,3	37.62	27 CO	K85	4	1.609	1,2
37.20	38 SR	LB3	1	6.367	1,2,3	37.65	79 AU	LA2	5	1.288	1,2,3
37.21	64 GO	LY1	4	1.592	1,2,3	37.70	39 Y	LA1	1	6.449	1,2,3
37.22	69 TM	LY2	5	1.274	1,2,3	37.71	69 TM	LY6	5	1.290	1
37.27	60 ND	LB3	3	2.126	1,2,3	37.71	72 HF	LB9	5	1.290	1,2
37.28	51 SB	LB4	2	3.190	1,2,3	37.71	74 W	LB6	5	1.290	1,2,3
37.28	68 ER	LY4	5	1.276	1,2	37.72	51 SB	LB1	2	3.226	1,2,3

MICA CRYSTAL, D# 9.98E ANGSTROMS						37.74 TO 38.69					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
37.74	39 Y	LA2	1	6.456	1,2,3	38.22	73 TA	LB3	5	1.307	1,2,3
37.85	66 DY	LL	3	2.158	1,2,3	38.23	49 IN	LB9	2	3.268	1,2
37.86	30 ZV	KBI	5	1.295	1,2,3	38.24	50 SN	LB6	2	3.269	1,2,3
37.86	71 LU	LA1	4	1.619	1,2,3	38.25	58 CE	LB7	3	2.180	1,2
37.86	67 HO	LB3	4	1.619	1,2,3	38.28	70 YB	LN	4	1.636	1,2,3
37.91	27 CO	KBI	4	1.621	1,2,3	38.30	49 IN	LB10	2	3.274	1,2
37.94	67 HO	LB6	4	1.622	1,2,3	38.38	53 I	LN	2	3.280	1,2,3
37.95	72 HF	LB10	5	1.298	1,2	38.40	58 CE	LB9	3	2.188	1,2
37.95	72 HF	LB5	5	1.298	1,2	38.40	64 GC	LY5	4	1.641	1
37.95	76 OS	MA2	1	6.490	1,2	38.40	78 PT	LA1	5	1.313	1,2,3
37.95	76 OS	MA1	1	6.490	1,2	38.43	59 PR	LB6	3	2.190	1,2,3
37.96	66 DY	LB2	4	1.623	1,2,3	38.47	68 ER	LY3	5	1.315	1,2,3
38.00	49 IN	LY5	2	3.249	1,2	38.47	69 TM	LY1	5	1.315	1,2,3
38.02	60 ND	LB4	3	2.167	1,2,3	38.48	52 TE	LA1	2	3.289	1,2,3
38.02	60 ND	LB1	3	2.167	1,2,3	38.50	83 BI	LL	5	1.316	1,2,3
38.07	74 W	LB4	5	1.302	1,2,3	38.53	58 CE	LB10	3	2.195	1,2
38.11	41 NB	LL	1	6.517	1,2,3	38.54	67 HC	LB1	4	1.647	1,2,3
38.13	38 SR	LB6	1	6.519	1,2,3	38.59	52 TE	LA2	2	3.298	1,2,3
38.13	75 RE	LL	4	1.630	1,2,3	38.60	62 SM	LA1	3	2.199	1,2,3
38.13	71 LU	LA2	4	1.630	1,2,3	38.65	68 ER	LY2	5	1.321	1,2,3
38.14	55 CS	LY4	3	2.174	1,2	38.66	40 ZR	LN	1	6.607	1,2,3
38.18	75 RE	MA1	1	6.528	1,2	38.68	67 HC	LY4	5	1.322	1,2
38.19	72 HF	LB7	5	1.306	1,2	38.69	47 AG	LY2	2	3.306	1,3
38.19	70 YB	LY5	5	1.306	1,2	38.69	50 SN	LB3	2	3.306	1,2,3
38.22	55 CS	LL	2	3.267	1,2,3	38.69	47 AG	LY3	2	3.306	1,2

MICA CRYSTAL, D# 9.980 ANGSTROMS							38.71 TO 39.68						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
38.71	57 LA	LY5	3	2.205	1,2		39.23	31 GA	KA1	5	1.340	1,2,3	
38.74	78 PT	LA2	5	1.324	1,2,3		39.24	65 TB	LL	3	2.234	1,2,3	
38.74	62 SM	LY3	4	1.655	1,2,3		39.29	71 LU	LB5	5	1.342	1,2	
38.76	38 SR	LB1	1	6.624	1,2,3		39.29	55 CS	LY2	3	2.237	1,2,3	
38.78	58 CE	LB2	3	2.209	1,2,3		39.30	74 W	LL	4	1.678	1,2,3	
38.80	72 HF	LB2	5	1.326	1,2,3		39.32	71 LU	LB10	5	1.343	1,2	
38.80	62 SM	LA2	3	2.210	1,2,3		39.32	20 CA	KA1	2	3.358	1,2,3	
38.81	63 EU	LY1	4	1.658	1,2,3		39.35	31 GA	KA2	5	1.344	1,2,3	
38.81	28 NI	KA1	4	1.658	1,2,3		39.37	56 BA	LY1	3	2.241	1,2,3	
38.83	73 TA	LB1	5	1.327	1,2,3		39.37	20 CA	KA2	2	3.362	1,2,3	
38.84	67 HO	LB4	4	1.659	1,2,3		39.37	66 DY	LB6	4	1.681	1,2,3	
38.84	62 SM	LY2	4	1.659	1,2,3		39.37	66 DY	LB3	4	1.681	1,2,3	
38.84	65 TB	LB7	4	1.659	1,2		39.40	65 TB	LB2	4	1.682	1,2,3	
38.86	76 OS	LN	5	1.328	1,2,3		39.41	73 TA	LB4	5	1.346	1,2,3	
38.91	28 NI	KA2	4	1.662	1,2,3		39.42	70 YB	LA2	4	1.683	1,2,3	
38.93	59 PR	LB3	3	2.217	1,2,3		39.50	71 LU	LB7	5	1.349	1,2	
38.95	62 SM	LN	3	2.218	1,2,3		39.53	82 PB	LL	5	1.350	1,2,3	
38.95	73 TA	LB6	5	1.331	1,2,3		39.56	37 RB	LY5	1	6.754	1,2	
39.03	65 TB	LB10	4	1.667	1,2		39.56	77 IR	LA1	5	1.351	1,2,3	
39.06	48 CD	LY1	2	3.336	1,2,3		39.62	72 HF	LB3	5	1.353	1,2,3	
39.08	49 IN	LB2	2	3.338	1,2,3		39.62	59 PR	LB4	3	2.255	1,2,3	
39.10	71 LU	LB9	5	1.336	1,2		39.64	14 SI	KB1	1	6.768	1,2,3	
39.14	50 SN	LB4	2	3.343	1,2,3		39.65	50 SN	LB1	2	3.385	1,2,3	
39.15	70 YB	LA1	4	1.672	1,2,3		39.68	59 PR	LB1	3	2.258	1,2,3	
39.22	55 CS	LY3	3	2.233	1,2,3		39.68	69 TM	LY5	5	1.355	1,2	

MICA CRYSTAL, D# 9.980 ANGSTROMS						39.74 TO 40.60					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
39.74	69 TM	LN	4	1.696	1,2,3	40.26	72 HF	LB1	5	1.374	1,2,3
39.76	37 RB	LB3	1	6.787	1,2,3	40.26	24 CR	KA1	3	2.290	1,2,3
39.88	23 V	KB5	3	2.269	1,2	40.28	49 IN	LB6	2	3.436	1,2,3
39.90	77 IR	LA2	5	1.362	1,2,3	40.29	48 CD	LB10	2	3.437	1,2
39.96	68 ER	LY1	5	1.364	1,2,3	40.30	61 PM	LA2	3	2.292	1
39.96	37 RB	LB4	1	6.820	1,2,3	40.30	52 TE	LN	2	3.438	1,2,3
39.96	67 HO	LY3	5	1.364	1,2,3	40.31	51 SB	LA1	2	3.439	1,2,3
39.99	57 LA	LB7	3	2.275	1,2	40.33	66 DY	LB4	4	1.720	1,2,3
40.03	63 EU	LY5	4	1.708	1,2	40.34	24 CR	KA2	3	2.294	1,2,3
40.08	66 DY	LB1	4	1.710	1,2,3	40.34	19 K	KB5	2	3.441	1,2
40.10	58 CE	LB6	3	2.281	1,2,3	40.40	64 GD	LB7	4	1.723	1,2
40.12	57 LA	LB9	3	2.282	1,2	40.42	64 GD	LB9	4	1.724	1
40.14	61 PM	LA1	3	2.283	1,2,3	40.42	51 SB	LA2	2	3.448	1,2,3
40.14	48 CD	LY5	2	3.425	1,2	40.47	69 TM	LA1	4	1.726	1,2,3
40.14	71 LU	LB2	5	1.370	1,2,3	40.48	29 CU	KB2	5	1.381	2,3
40.14	67 HO	LY2	5	1.370	1,2,3	40.50	19 K	KB1	2	3.454	1,2,3
40.15	23 V	KB1	3	2.284	1,2,3	40.50	62 SM	LY1	4	1.727	1,2,3
40.15	23 V	KB3	3	2.284	1,2	40.50	57 LA	LB2	3	2.303	1,2,3
40.20	48 CD	LB9	2	3.430	1,2	40.51	29 CU	KB5	5	1.382	2
40.22	38 SR	LA1	1	6.863	1,2,3	40.52	73 TA	LL	4	1.728	1,2,3
40.23	75 RE	LN	5	1.373	1,2,3	40.56	40 ZR	LL	1	6.918	1,2,3
40.26	38 SR	LA2	1	6.869	1,2,3	40.57	70 YB	LB9	5	1.384	1,2
40.26	72 HF	LB6	5	1.374	1,2,3	40.59	56 BA	LY5	3	2.308	1,2
40.26	66 DY	LY4	5	1.374	1,2	40.59	64 GD	LB10	4	1.731	1,2
40.26	57 LA	LB10	3	2.290	1,2	40.60	81 TL	LL	5	1.385	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS						40.65 TO 41.83					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
40.65	58 CE	L83	3	2.311	1,2,3	41.23	48 CD	L82	2	3.514	1,2,3
40.66	70 YB	L85	5	1.387	1,2	41.23	26 FE	KB1	4	1.757	1,2,3
40.67	64 GD	LL	3	2.312	1,2,3	41.24	68 ER	LY5	5	1.406	1,2
40.69	49 IN	L83	2	3.470	1,2,3	41.31	39 Y	LN	1	7.040	1,2,3
40.74	69 TM	LA2	4	1.737	1,2,3	41.33	55 CS	LY1	3	2.348	1,2,3
40.78	76 OS	LA1	5	1.391	1,2,3	41.34	47 AG	LY1	2	3.523	1,2,3
40.78	70 YB	L810	5	1.391	1,2	41.35	58 CE	L84	3	2.349	1,2,3
40.81	29 CU	KB1	5	1.392	1,2,3	41.48	58 CE	L81	3	2.356	1,2,3
40.81	72 HF	L84	5	1.392	1,2,3	41.52	70 YB	L82	5	1.415	1,2,3
40.84	65 TB	L86	4	1.741	1,2,3	41.53	37 RB	L81	1	7.076	1,2,3
40.85	29 CU	KB3	5	1.393	1,2	41.58	66 DY	LY3	5	1.417	1,2,3
40.91	70 YB	L87	5	1.395	1,2	41.58	67 HC	LY1	5	1.417	1,2,3
40.91	26 FE	KB5	4	1.744	1,2	41.64	71 LU	L86	5	1.419	1,2,3
40.91	60 ND	LY4	4	1.744	1,2	41.70	65 TB	L81	4	1.776	1,2,3
40.93	46 PD	LY3	2	3.489	1,2	41.70	74 W	LN	5	1.421	1,2,3
40.93	46 PD	LY2	2	3.489	1,2,3	41.74	80 HG	LL	5	1.422	1,2,3
40.94	64 GD	L82	4	1.745	1,2,3	41.74	49 IN	L81	2	3.555	1,2,3
40.96	74 W	MA1	1	6.983	1,2	41.74	60 ND	LA1	3	2.370	1,2,3
40.96	37 RB	L86	1	6.984	1,2,3	41.76	53 I	LL	2	3.557	1,2,3
40.96	65 TB	L83	4	1.746	1,2,3	41.77	66 DY	LY2	5	1.423	1,2,3
41.00	74 W	MA2	1	6.990	1,2	41.77	62 SM	L85	4	1.779	2
41.09	71 LU	L83	5	1.401	1,2,3	41.77	62 SM	LY5	4	1.779	1
41.12	76 OS	LA2	5	1.402	1,2,3	41.80	71 LU	L81	5	1.424	1,2,3
41.15	49 IN	L84	2	3.507	1,2,3	41.82	72 HF	LL	4	1.781	1,2,3
41.21	68 ER	LN	4	1.756	1,2,3	41.83	14 SI	KA1	1	7.125	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS						41.85 TO 43.06					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
41.85	14 SI	KA2	1	7.128	1,2,3	42.36	56 BA	LB2	3	2.404	1,2,3
41.85	56 BA	LB9	3	2.376	1,2	42.39	51 SB	LN	2	3.608	1,2,3
41.89	65 TB	LY4	5	1.427	1,2	42.40	50 SN	LA2	2	3.609	1,2,3
41.89	68 ER	LA1	4	1.784	1,2,3	42.41	75 RE	LA2	5	1.444	1,2,3
41.90	57 LA	LB6	3	2.379	1,2,3	42.42	47 AG	LB10	2	3.611	1,2
41.92	65 TB	LB4	4	1.785	1,2,3	42.45	60 ND	LN	3	2.409	1,2,3
41.92	60 ND	LA2	3	2.380	1,3	42.46	48 CD	LB6	2	3.614	1,2,3
41.99	63 EU	LB7	4	1.788	1,2	42.46	64 GD	LB6	4	1.807	1,2,3
42.02	27 CO	KA1	4	1.789	1,2,3	42.47	57 LA	LB3	3	2.410	1,2,3
42.05	56 BA	LB10	3	2.387	1,2	42.49	47 AG	LY5	2	3.615	1,2
42.07	75 RE	LA1	5	1.433	1,2,3	42.58	63 EU	LB2	4	1.812	1,2,3
42.09	63 EU	LB9	4	1.792	1,2	42.60	73 TA	MA1	1	7.251	1,2
42.12	27 CO	KA2	4	1.793	1,2,3	42.60	55 CS	LY5	3	2.417	1,2
42.12	53 I	LY4	3	2.391	1,2	42.65	73 TA	MA2	1	7.258	1,2
42.13	30 ZN	KA1	5	1.435	1,2,3	42.66	64 GD	LB3	4	1.815	1,2,3
42.19	60 ND	LY3	4	1.796	1,2,3	42.66	70 YB	LB3	5	1.452	1,2,3
42.19	68 ER	LA2	4	1.796	1,2,3	42.68	61 PM	LY1	4	1.816	1
42.20	63 EU	LL	3	2.395	1,2,3	42.76	59 PR	LY4	4	1.819	1,2
42.26	30 ZN	KA2	5	1.439	1,2,3	42.84	48 CD	LB3	2	3.645	1,2,3
42.29	63 EU	LB10	4	1.800	1,2	42.90	79 AU	LL	5	1.460	1,2,3
42.29	50 SN	LA1	2	3.600	1,2,3	42.93	67 HC	LN	4	1.826	1,2,3
42.29	71 LU	LB4	5	1.440	1,2,3	42.97	67 HC	LY5	5	1.462	1,2
42.31	60 ND	LY2	4	1.801	1,2,3	43.00	69 TM	LB2	5	1.463	1,2,3
42.32	69 TM	LB10	5	1.441	1	43.02	37 RB	LA1	1	7.318	1,2,3
42.35	47 AG	LB9	2	3.605	1,2	43.06	37 RB	LA2	1	7.325	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS						43.09 TO 44.12					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
43.09	70 YB	LB6	5	1.466	1,2,3	43.67	67 HC	LA2	4	1.856	1,2,3
43.16	53 I	LY2	3	2.447	1,2,3	43.67	62 SM	LB7	4	1.856	1,2
43.16	53 I	LY3	3	2.447	1,2	43.68	64 GD	LY4	5	1.485	1,2
43.18	71 LU	LL	4	1.836	1,2,3	43.68	68 ER	LB9	5	1.485	1,2
43.19	57 LA	LB4	3	2.449	1,2,3	43.73	55 CS	LB9	3	2.478	1,2
43.24	73 TA	LN	5	1.471	1,2,3	43.73	52 TE	LL	2	3.717	1,2,3
43.24	65 TB	LY3	5	1.471	1,2,3	43.74	74 W	LA2	5	1.487	1,2,3
43.25	39 Y	LL	1	7.356	1,2,3	43.79	62 SM	LB9	4	1.861	1,2
43.30	48 CD	LB4	2	3.682	1,2,3	43.80	28 NI	KB5	5	1.489	1,2
43.31	66 DY	LY1	5	1.473	1,2,3	43.80	28 NI	KB2	5	1.489	1,2,3
43.34	45 RH	LY2	2	3.685	1,2,3	43.81	56 BA	LB6	3	2.482	1,2,3
43.34	45 RH	LY3	2	3.685	1,2	43.81	62 SM	LL	3	2.482	1,2,3
43.36	57 LA	LB1	3	2.458	1,2,3	43.82	46 PD	LY1	2	3.724	1,2,3
43.40	67 HO	LA1	4	1.845	1,2,3	43.86	70 YB	LB4	5	1.491	1,2,3
43.40	74 W	LA1	5	1.476	1,2,3	43.86	55 CS	LB7	3	2.485	1,2
43.40	70 YB	LB1	5	1.476	1,2,3	43.96	68 ER	LB10	5	1.494	1,2
43.42	64 GD	LB1	4	1.846	1,2,3	43.96	68 ER	LB7	5	1.494	1,2
43.43	65 TB	LY2	5	1.477	1,2,3	43.99	62 SM	LB10	4	1.869	1,2
43.44	54 XE	LY1	3	2.462	1	43.99	55 CS	LB10	3	2.492	1,2
43.45	59 PR	LA1	3	2.463	1,2,3	43.99	48 CD	LB1	2	3.738	1,2,3
43.46	71 LU	LN	5	1.478	1,2	44.03	19 K	KA1	2	3.741	1,2,3
43.56	47 AG	LB2	2	3.703	1,2,3	44.08	19 K	KA2	2	3.745	1,2,3
43.60	64 GD	LB4	4	1.853	1,2,3	44.10	22 TI	KB5	3	2.498	1,2
43.64	59 PR	LA2	3	2.473	1,2,3	44.11	78 PT	LL	5	1.499	1,2,3
43.65	60 ND	LY6	4	1.855	2	44.12	59 PR	LY3	4	1.874	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS							44.12 TO 44.98						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
44.12	63 EU	LB6	4	1.974	1,2,3		44.66	46 PD	LB9	2	3.792	1,2	
44.14	28 NI	KB1	5	1.500	1,2,3		44.69	66 DY	LN	4	1.897	1,2,3	
44.20	23 V	KA1	3	2.503	1,2,3		44.69	25 MN	KB5	4	1.897	1,2	
44.22	60 ND	LY1	4	1.878	1,2,3		44.70	66 DY	LY5	5	1.518	1,2	
44.24	59 PR	LY2	4	1.879	1,2,3		44.74	58 CE	LY4	4	1.899	1,2	
44.25	38 SR	LN	1	7.517	1,2,3		44.75	46 PD	LB10	2	3.799	1,2	
44.27	23 V	KA2	3	2.507	1,2,3		44.82	73 TA	LA1	5	1.522	1,2,3	
44.30	69 TM	LB3	5	1.505	1,2,3		44.85	72 HF	LN	5	1.523	1,2,3	
44.31	62 SM	LB2	4	1.882	1,2,3		44.86	47 AG	LB6	2	3.808	1,2,3	
44.35	52 TE	LY4	3	2.511	1,2		44.98	66 DY	LA1	4	1.909	1,2,3	
44.35	55 CS	LB2	3	2.511	1,2,3								
44.36	59 PR	LN	3	2.512	1,2,3								
44.38	72 HF	MA1	1	7.539	1,2								
44.40	22 TI	KB1	3	2.514	1,2,3								
44.40	22 TI	KB3	3	2.514	1,2								
44.41	49 IN	LA1	2	3.772	1,3								
44.43	72 HF	MA2	1	7.546	1,2								
44.44	56 BA	LB3	3	2.516	1,2,3								
44.44	63 EU	LB3	4	1.887	1,2,3								
44.53	49 IN	LA2	2	3.781	1,2,3								
44.56	36 KR	LB1	1	7.568	1								
44.58	68 ER	LB2	5	1.514	1,2,3								
44.61	69 TM	LB6	5	1.515	1,2,3								
44.61	70 YB	LL	4	1.894	1,2,3								
44.63	50 SN	LN	2	3.789	1,2,3								

MICA CRYSTAL, D# 9.980 ANGSTROMS						45.01 TO 46.31					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
45.01	25 MN	KB1	4	1.910	1,2,3	45.66	67 HO	LB10	5	1.549	1
45.03	46 PD	LY5	2	3.822	1,2	45.67	53 I	LY1	3	2.582	1,2,3
45.04	64 GD	LY3	5	1.529	1,2,3	45.76	26 FE	KA2	4	1.940	1,2,3
45.07	69 TM	LB1	5	1.530	1,2,3	45.81	18 A	KB1	2	3.884	1
45.07	65 TB	LY1	5	1.530	1,2,3	45.86	51 SB	LL	2	3.888	1,2,3
45.17	56 BA	LB4	3	2.555	1,2,3	45.88	55 CS	LB6	3	2.593	1,2,3
45.17	73 TA	LA2	5	1.533	1,2,3	45.91	62 SM	LB6	4	1.946	1,2,3
45.17	47 AG	LB3	2	3.833	1,2,3	45.97	44 RU	LY2	2	3.897	1,2,3
45.20	64 GD	LY2	5	1.534	1,2,3	45.97	44 RU	LY3	2	3.897	1,2
45.26	66 DY	LA2	4	1.920	1,2,3	46.04	68 ER	LB3	5	1.561	1,2,3
45.26	63 EU	LB1	4	1.920	1,2,3	46.07	36 KR	LA2	1	7.811	1
45.28	58 CE	LA1	3	2.561	1,2,3	46.07	36 KR	LA1	1	7.811	1
45.39	52 TE	LY2	3	2.567	1,3	46.12	46 PC	LB2	2	3.909	1,2,3
45.39	52 TE	LY3	3	2.567	1,2	46.13	58 CE	LY3	4	1.955	1,2,3
45.39	56 BA	LB1	3	2.567	1,2,3	46.13	92 U	MA1	2	3.910	1,2
45.41	63 EU	LB4	4	1.926	1,2,3	46.13	69 TM	LL	4	1.955	1,2,3
45.41	29 CU	KA1	5	1.541	1,2,3	46.18	61 PM	LB2	4	1.957	1
45.41	77 IR	LL	5	1.541	1,2,3	46.22	67 HO	LB2	5	1.567	1,2,3
45.45	58 CE	LA2	3	2.570	1,2,3	46.22	68 ER	LB6	5	1.567	1,2,3
45.51	69 TM	LB4	5	1.544	1,2,3	46.23	38 SR	LL	1	7.836	1,2,3
45.51	63 EU	LY4	5	1.544	1,2	46.26	71 LU	MA1	1	7.840	1,2
45.51	29 CU	KA2	5	1.544	1,2,3	46.26	58 CE	LY2	4	1.960	1,2,3
45.63	47 AG	LB4	2	3.870	1,2,3	46.28	59 PR	LY1	4	1.961	1,2,3
45.63	60 ND	LY5	4	1.935	1,2	46.29	72 HF	LA1	5	1.569	1,2,3
45.66	26 FE	KA1	4	1.936	1,2,3	46.31	92 U	MA2	2	3.924	1,2

MICA CRYSTAL, D# 9.980 ANGSTROMS							46.31 TO 47.83						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
46.31	62 SM	LB3	4	1.962	1,2,3		47.22	66 DY	LB7	5	1.599	1,2	
46.38	58 CE	LN	3	2.620	1,2,3		47.22	57 LA	LA1	3	2.665	1,2,3	
46.43	47 AG	LB1	2	3.934	1,2,3		47.24	55 CS	LB4	3	2.666	1,2,3	
46.49	54 XE	LB2	3	2.626	1		47.26	62 SM	LB4	4	2.000	1,2,3	
46.53	55 CS	LB3	3	2.628	1,2,3		47.26	66 DY	LB9	5	1.600	1	
46.54	65 TB	LB5	5	1.577	2		47.29	68 ER	LB4	5	1.601	1,2,3	
46.54	65 TB	LY5	5	1.577	1		47.39	57 LA	LA2	3	2.674	1,2,3	
46.54	45 RH	LY1	2	3.943	1,2,3		47.43	60 ND	LL	3	2.676	1,2,3	
46.58	65 TB	LN	4	1.973	1		47.44	62 SM	LY4	5	1.606	1,2	
46.63	72 HF	LA2	5	1.580	1,2,3		47.46	46 PD	LB6	2	4.016	1,2,3	
46.63	65 TB	LA1	4	1.975	1,2,3		47.48	66 DY	LB10	5	1.607	1	
46.71	48 CD	LA1	2	3.956	1,2,3		47.48	60 ND	LB7	4	2.009	1,2	
46.74	51 SB	LY4	3	2.639	1,2		47.51	37 RB	LN	1	8.041	1,2,3	
46.79	76 OS	LL	5	1.585	1,2,3		47.53	91 PA	MA1	2	4.022	1,2	
46.82	48 CD	LA2	2	3.965	1,2,3		47.54	27 CG	KB5	5	1.609	1,2	
46.83	57 LA	LY4	4	1.983	1,2		47.56	55 CS	LB1	3	2.683	1,2,3	
46.85	68 ER	LB1	5	1.587	1,2,3		47.66	60 ND	LB9	4	2.016	1,2	
46.91	65 TB	LA2	4	1.986	1,2,3		47.68	46 PD	LB3	2	4.034	1,2,3	
46.97	63 EU	LY3	5	1.591	1,2,3		47.70	91 PA	MA2	2	4.035	1,2	
47.01	64 GD	LY1	5	1.592	1,2,3		47.73	68 ER	LL	4	2.019	1,2,3	
47.04	49 IN	LN	2	3.983	1,2,3		47.76	59 PR	LY5	4	2.020	1,2	
47.07	53 I	LY5	3	2.657	1,2		47.79	51 SB	LY3	3	2.695	1,2	
47.14	13 AL	KB1	1	7.981	1,2,3		47.79	51 SB	LY2	3	2.695	1,2,3	
47.16	63 EU	LY2	5	1.597	1,2,3		47.82	45 RH	LY5	2	4.045	1,2	
47.21	62 SM	LB1	4	1.998	1,2,3		47.83	60 ND	LB10	4	2.023	1,2	

MICA CRYSTAL, D# 9.980 ANGSTROMS						47.85 TO 49.36					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
47.85	67 HO	LB3	5	1.619	1,2,3	48.69	64 GD	LA2	4	2.057	1,2,3
47.85	71 LU	LA1	5	1.619	1,2,3	48.73	67 HC	LB1	5	1.647	1,2,3
47.91	27 CO	KB1	5	1.621	1,2,3	48.79	22 TI	KA1	3	2.748	1,2,3
47.95	67 HO	LB6	5	1.622	1,2,3	48.83	53 I	LB2	3	2.750	1,2,3
47.98	66 DY	LB2	5	1.623	1,2,3	48.87	22 TI	KA2	3	2.752	1,2,3
48.04	35 BR	LB1	1	8.125	2,3	48.90	45 RH	LB2	2	4.131	1,2,3
48.11	52 TE	LY1	3	2.712	1,2,3	48.99	62 SM	LY3	5	1.655	1,2,3
48.12	70 YB	MA1	1	8.138	1,2	48.99	90 TH	MA1	2	4.138	1,2
48.13	53 I	LB9	3	2.713	1,2	49.04	24 CR	KB5	4	2.071	1,2
48.15	46 PD	LB4	2	4.071	1,2,3	49.08	63 EU	LY1	5	1.658	1,2,3
48.15	50 SN	LL	2	4.071	1,2,3	49.08	28 NI	KA1	5	1.658	1,2,3
48.16	60 ND	LB2	4	2.036	1,2,3	49.09	46 PD	LB1	2	4.146	1,2,3
48.20	75 RE	LL	5	1.630	1,2,3	49.09	21 SC	KB5	3	2.764	1,2
48.20	71 LU	LA2	5	1.630	1,2,3	49.11	62 SM	LY2	5	1.659	1,2,3
48.22	70 YB	MA2	1	8.154	1,2	49.11	67 HO	LB4	5	1.659	1,2,3
48.26	53 I	LB10	3	2.720	1,2	49.11	65 TB	LB7	5	1.659	1,2
48.29	57 LA	LY3	4	2.041	1,2,3	49.14	56 BA	LY4	4	2.075	1,2
48.39	70 YB	LN	5	1.636	1,2,3	49.16	90 TH	MA2	2	4.151	1,2
48.41	57 LA	LY2	4	2.046	1,2,3	49.19	47 AG	LA1	2	4.154	1,2,3
48.41	64 GD	LA1	4	2.046	1,2,3	49.21	28 NI	KA2	5	1.662	1,2,3
48.45	53 I	LB7	3	2.730	1,2	49.29	61 PM	LB1	4	2.081	1,2,3
48.46	58 CE	LY1	4	2.048	1,2,3	49.30	56 BA	LA1	3	2.775	1,2,3
48.49	64 GD	LN	4	2.049	1,2,3	49.31	47 AG	LA2	2	4.163	1,2,3
48.54	64 GD	LY5	5	1.641	1	49.34	50 SN	LY4	3	2.777	1,2
48.64	57 LA	LN	3	2.740	1,2,3	49.36	65 TB	LB10	5	1.667	1,2

MICA CRYSTAL, D# 9.980 ANGSTROMS						49.38 TO 50.75					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
49.38	13 AL	KA1	1	8.338	1,2,3	49.87	70 YB	LA2	5	1.683	1,2,3
49.40	24 CR	KB1	4	2.085	1,2,3	49.88	60 ND	LB6	4	2.104	1,2,3
49.40	21 SC	KB1	3	2.780	1,2,3	49.93	25 MN	KA2	4	2.136	1,2,3
49.40	13 AL	KA2	1	8.340	1,2,3	49.95	59 PR	LB10	4	2.157	1,2
49.40	24 CR	KB3	4	2.085	1,2	50.03	58 CE	LY5	4	2.110	1,2
49.42	67 HO	LL	4	2.086	1,2,3	50.16	69 TM	MA1	1	8.460	1,2
49.47	59 PR	LL	3	2.784	1,2,3	50.16	69 TM	MA2	1	8.460	1,2
49.49	56 BA	LA2	3	2.785	1,2,3	50.26	59 PR	LB2	4	2.119	1,2,3
49.52	70 YB	LA1	5	1.672	1,2,3	50.28	69 TM	LN	5	1.696	1,2,3
49.54	37 RB	LL	1	8.363	1,2,3	50.31	63 EU	LA1	4	2.121	1,2,3
49.55	59 PR	LB7	4	2.091	1,2	50.31	45 RH	LB6	2	4.242	1,2,3
49.55	44 RU	LY1	2	4.182	1,2,3	50.40	50 SN	LY2	3	2.833	1,3
49.59	52 TE	LY5	3	2.790	1,2	50.43	60 ND	LB3	4	2.126	1,2,3
49.62	35 BR	LA2	1	8.375	1,2	50.43	45 RH	LB3	2	4.252	1,2,3
49.62	35 BR	LA1	1	8.375	1,2,3	50.48	53 I	LB6	3	2.837	1,2,3
49.67	18 A	KA1	2	4.192	1,2,3	50.52	52 TE	LB9	3	2.839	1,2
49.69	48 CD	LN	2	4.193	1,3	50.56	63 EU	LN	4	2.131	1
49.71	74 W	LL	5	1.678	1,2,3	50.59	63 EU	LA2	4	2.132	1,2,3
49.71	18 A	KA2	2	4.195	1,2,3	50.64	56 BA	LY3	4	2.134	1,2,3
49.77	59 PR	LB9	4	2.100	1,2	50.65	49 IN	LL	2	4.269	1,2,3
49.81	66 DY	LB6	5	1.681	1,2,3	50.66	63 EU	LY5	5	1.708	1,2
49.81	66 DY	LB3	5	1.681	1,2,3	50.67	52 TE	LB10	3	2.847	1,2
49.83	25 MN	KA1	4	2.102	1,2,3	50.73	66 DY	LB1	5	1.710	1,2,3
49.83	54 XE	LB1	3	2.853	1	50.74	56 BA	LY2	4	2.138	1,2,3
49.84	65 TB	LB2	5	1.682	1,2,3	50.75	51 SB	LY1	3	2.851	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS						50.84 TO 52.58					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
50.84	57 LA	LY1	4	2.142	1,2,3	51.81	58 CE	LB7	4	2.180	1,2
50.88	44 RU	LY5	2	4.287	1,2	51.84	64 GD	LB2	5	1.745	1,2,3
50.90	45 RH	LB4	2	4.289	1,2,3	51.87	65 TB	LB3	5	1.746	1,2,3
50.95	56 BA	LN	3	2.862	1,2,3	51.91	53 I	LB4	3	2.912	1,2,3
50.97	52 TE	LB7	3	2.863	1,2	51.91	34 SE	LB1	1	8.736	1,2,3
51.04	66 DY	LB4	5	1.720	1,2,3	51.91	46 PD	LA1	2	4.368	1,2,3
51.14	64 GD	LB7	5	1.723	1,2	51.96	44 RU	LB2	2	4.372	1,2,3
51.17	64 GD	LB9	5	1.724	1	51.99	45 RH	LB1	2	4.374	1,2,3
51.18	53 I	LB3	3	2.874	1,2,3	52.01	46 PD	LA2	2	4.376	1,2,3
51.23	69 TM	LA1	5	1.726	1,2,3	52.01	58 CE	LB9	4	2.188	1,2
51.25	66 DY	LL	4	2.158	1,2,3	52.06	59 PR	LB6	4	2.190	1,2,3
51.27	62 SM	LY1	5	1.727	1,2,3	52.06	42 MC	LY3	2	4.380	1,2
51.30	73 TA	LL	5	1.728	1,2,3	52.06	42 MC	LY2	2	4.380	1,2,3
51.34	52 TE	LB2	3	2.882	1,2,3	52.18	49 IN	LY4	3	2.926	1,2
51.39	64 GD	LB10	5	1.731	1,2	52.19	58 CE	LB10	4	2.195	1,2
51.48	60 ND	LB1	4	2.167	1,2,3	52.19	68 ER	LN	5	1.756	1,2,3
51.48	60 ND	LB4	4	2.167	1,2,3	52.22	26 FE	KB1	5	1.757	1,2,3
51.53	55 CS	LA1	3	2.892	1,2,3	52.29	62 SM	LA1	4	2.199	1,2,3
51.53	58 CE	LL	3	2.892	1,2,3	52.29	51 SB	LY5	3	2.932	1,2
51.59	69 TM	LA2	5	1.737	1,2,3	52.36	17 CL	KB1	2	4.403	1,2,3
51.66	55 CS	LY4	4	2.174	1,2	52.39	53 I	LB1	3	2.937	1,2,3
51.71	65 TB	LB6	5	1.741	1,2,3	52.45	57 LA	LY5	4	2.205	1,2
51.72	55 CS	LA2	3	2.902	1,2,3	52.55	58 CE	LB2	4	2.209	1,2,3
51.81	60 ND	LY4	5	1.744	1,2	52.55	47 AG	LN	2	4.418	1,2,3
51.81	26 FE	KB5	5	1.744	1,2	52.58	62 SM	LA2	4	2.210	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS							52.76 TO 54.20						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
52.76	59 PR	LB3	4	2.217	1,2,3		53.44	44 RU	LB6	2	4.487	1,2,3	
52.78	62 SM	LN	4	2.218	1,2,3		53.44	44 RU	LB3	2	4.487	1,2,3	
52.83	43 TC	LY1	2	4.440	1		53.47	55 CS	LN	3	2.993	1,2,3	
52.83	65 TB	LB1	5	1.776	1,2,3		53.47	68 ER	LA2	5	1.796	1,2,3	
52.93	62 SM	LY5	5	1.779	1		53.47	60 ND	LY3	5	1.796	1,2,3	
52.93	62 SM	LB5	5	1.779	2		53.54	34 SE	LA1	1	8.990	1,2,3	
52.99	72 HF	LL	5	1.781	1,2,3		53.54	34 SE	LA2	1	8.990	1,2	
53.04	52 TE	LB6	3	2.971	1,2,3		53.60	63 EU	LB10	5	1.800	1,2	
53.06	51 SB	LB9	3	2.972	1,2		53.62	50 SN	LY1	3	3.001	1,2,3	
53.09	68 ER	LA1	5	1.784	1,2,3		53.63	60 ND	LY2	5	1.801	1,2,3	
53.12	65 TB	LB4	5	1.785	1,2,3		53.70	51 SB	LB7	3	3.005	1	
53.15	33 AS	LB4	1	8.930	1,2		53.72	57 LA	LL	3	3.006	1,2,3	
53.15	33 AS	LB3	1	8.930	1,2,3		53.73	59 PR	LB4	4	2.255	1,2,3	
53.17	55 CS	LY3	4	2.233	1,2,3		53.78	52 TE	LB3	3	3.009	1,2,3	
53.19	65 TB	LL	4	2.234	1,2,3		53.81	59 PR	LB1	4	2.258	1,2,3	
53.20	51 SB	LB10	3	2.979	1,2		53.83	64 GD	LB6	5	1.807	1,2,3	
53.22	49 IN	LY2	3	2.980	1,2,3		53.89	54 XE	LA1	3	3.015	1	
53.22	63 EU	LB7	5	1.788	1,2		53.90	44 RU	LB4	2	4.523	1,2,3	
53.22	49 IN	LY3	3	2.980	1,2		53.99	63 EU	LB2	5	1.812	1,2,3	
53.25	27 CO	KA1	5	1.789	1,2,3		54.05	51 SB	LB2	3	3.023	1,2,3	
53.27	55 CS	LY2	4	2.237	1,2,3		54.09	54 XE	LA2	3	3.025	1	
53.35	48 CD	LL	2	4.480	1,2,3		54.09	64 GD	LB3	5	1.815	1,2,3	
53.35	63 EU	LB9	5	1.792	1,2		54.09	23 V	KB5	4	2.269	1,2	
53.37	56 BA	LY1	4	2.241	1,2,3		54.12	61 PM	LY1	5	1.816	1	
53.38	27 CO	KA2	5	1.793	1,2,3		54.20	21 SC	KA1	3	3.031	1,2,3	

MICA CRYSTAL, D# 9.980 ANGSTROMS							54.21 TO 56.26						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
54.21	59 PR	LY4	5	1.819	1,2		55.20	64 GD	LL	4	2.312	1,2,3	
54.25	57 LA	LB7	4	2.275	1,2		55.24	35 BR	LN	1	9.254	1,3	
54.28	21 SC	KA2	3	3.035	1,2,3		55.25	50 SN	LY5	3	3.085	1,2	
54.40	58 CE	LB6	4	2.281	1,2,3		55.31	64 GD	LB4	5	1.853	1,2,3	
54.43	57 LA	LB9	4	2.282	1,2		55.35	20 CA	KB1	3	3.090	1,2,3	
54.44	67 HO	LN	5	1.826	1,2,3		55.36	43 TC	LB2	2	4.636	1	
54.45	61 PM	LA1	4	2.283	1,2,3		55.38	60 ND	LY6	5	1.855	2	
54.48	23 V	KB3	4	2.284	1,2		55.41	67 HO	LA2	5	1.856	1,2,3	
54.48	23 V	KB1	4	2.284	1,2,3		55.41	62 SM	LB7	5	1.856	1,2	
54.49	52 TE	LB4	3	3.046	1,2,3		55.57	62 SM	LB9	5	1.861	1,2	
54.63	24 CR	KA1	4	2.290	1,2,3		55.59	41 NB	LY3	2	4.654	1,2	
54.63	57 LA	LB10	4	2.290	1,2		55.59	41 NB	LY2	2	4.654	1,2,3	
54.69	61 PM	LA2	4	2.292	1		55.67	46 PD	LN	2	4.660	1,2,3	
54.74	24 CR	KA2	4	2.294	1,2,3		55.83	50 SN	LB9	3	3.115	1,2	
54.76	71 LU	LL	5	1.836	1,2,3		55.83	62 SM	LB10	5	1.869	1,2	
54.85	45 RH	LA1	2	4.597	1,2,3		55.83	51 SB	LB6	3	3.115	1,2,3	
54.96	45 RH	LA2	2	4.605	1,2,3		55.95	50 SN	LB10	3	3.121	1,2	
54.97	57 LA	LB2	4	2.303	1,2,3		56.00	63 EU	LB6	5	1.874	1,2,3	
55.04	20 CA	KB5	3	3.074	1,2		56.00	59 PR	LY3	5	1.874	1,2,3	
55.05	67 HO	LA1	5	1.845	1,2,3		56.13	60 ND	LY1	5	1.878	1,2,3	
55.09	64 GD	LB1	5	1.846	1,2,3		56.14	55 CS	LY1	4	2.348	1,2,3	
55.09	52 TE	LB1	3	3.077	1,2,3		56.16	59 PR	LY2	5	1.879	1,2,3	
55.10	56 BA	LY5	4	2.358	1,2		56.16	58 CE	LB4	4	2.349	1,2,3	
55.15	44 RU	LB1	2	4.620	1,2,3		56.22	56 BA	LL	3	3.135	1,2,3	
55.18	58 CE	LB3	4	2.311	1,2,3		56.26	62 SM	LB2	5	1.882	1,2,3	

MICA CRYSTAL, D# 9.980 ANGSTROMS						56.26 TO 58.60					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
56.26	48 CD	LY3	3	3.137	1,2	57.17	25 MN	KBI	5	1.910	1,2,3
56.28	33 AS	LBI	1	9.414	1,3	57.22	12 MG	KBI	1	9.558	1,2,3
56.28	47 AG	LL	2	4.707	1,2,3	57.26	53 I	LY4	4	2.391	1,2
56.28	48 CD	LY2	3	3.138	1,2,3	57.30	51 SB	LB4	3	3.190	1,2,3
56.35	58 CE	LBI	4	2.356	1,2,3	57.37	63 EU	LL	4	2.395	1,2,3
56.42	63 EU	LB3	5	1.887	1,2,3	57.38	35 BR	LL	1	9.583	1,2,3
56.48	53 I	LA1	3	3.148	1,2,3	57.50	63 EU	LBI	5	1.920	1,2,3
56.53	42 MO	LY1	2	4.726	1,2,3	57.50	66 DY	LA2	5	1.920	1,2,3
56.56	51 SB	LB3	3	3.152	1,2,3	57.60	56 BA	LB2	4	2.404	1,2,3
56.56	17 CL	KAI	2	4.728	1,2,3	57.69	63 EU	LB4	5	1.926	1,2,3
56.58	17 CL	KA2	2	4.730	1,2,3	57.73	60 ND	LN	4	2.409	1,2,3
56.61	50 SN	LB7	3	3.155	1,2	57.76	57 LA	LB3	4	2.410	1,2,3
56.65	70 YR	LL	5	1.894	1,2,3	57.94	55 CS	LY5	4	2.417	1,2
56.67	53 I	LA2	3	3.158	1,2,3	57.96	33 AS	LA1	1	9.671	1,2,3
56.71	60 ND	LA1	4	2.370	1,2,3	57.96	33 AS	LA2	1	9.671	1,2
56.74	66 DY	LN	5	1.897	1,2,3	57.98	42 MO	LY5	2	4.837	1,2
56.74	25 MN	KBI	5	1.897	1,2	57.99	60 ND	LY5	5	1.935	1,2
56.75	49 IN	LY1	3	3.162	1,2,3	58.01	51 SB	LBI	3	3.226	1,2,3
56.81	58 CE	LY4	5	1.895	1,2	58.02	26 FE	KAI	5	1.936	1,2,3
56.87	56 BA	LB9	4	2.376	1,2	58.10	44 RU	LA1	2	4.846	1,2,3
56.95	57 LA	LB6	4	2.379	1,2,3	58.15	26 FE	KA2	5	1.940	1,2,3
56.97	60 ND	LA2	4	2.380	1,3	58.19	44 RU	LA2	2	4.853	1,2,3
57.01	50 SN	LB2	3	3.175	1,2,3	58.35	62 SM	LB6	5	1.946	1,2,3
57.14	66 DY	LA1	5	1.909	1,2,3	58.46	49 IN	LY5	3	3.249	1,2
57.16	56 BA	LB10	4	2.387	1,2	58.60	43 TC	LBI	2	4.884	1

MICA CRYSTAL, D# 9.980 ANGSTROMS						58.65 TO 60.32					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
58.65	58 CE	LY3	5	1.955	1,2,3	59.43	52 TE	LA2	3	3.298	1,2,3
58.65	69 TM	LL	5	1.955	1,2,3	59.50	46 PD	LL	2	4.952	1,2,3
58.71	61 PM	LB2	5	1.957	1	59.51	40 ZR	LY3	2	4.953	1,2
58.73	53 I	LY3	4	2.447	1,2	59.51	40 ZR	LY2	2	4.953	1,2,3
58.73	53 I	LY2	4	2.447	1,2,3	59.55	55 CS	LB9	4	2.478	1,2
58.78	57 LA	LB4	4	2.449	1,2,3	59.57	57 LA	LY4	5	1.983	1,2
58.81	58 CE	LY2	5	1.960	1,2,3	59.59	47 AG	LY2	3	3.306	1,3
58.82	55 CS	LL	3	3.267	1,2,3	59.59	50 SN	LB3	3	3.306	1,2,3
58.84	49 IN	LB9	3	3.268	1,2	59.59	47 AG	LY3	3	3.306	1,2
58.84	59 PR	LY1	5	1.961	1,2,3	59.66	62 SM	LL	4	2.482	1,2,3
58.86	50 SN	LB6	3	3.269	1,2,3	59.66	56 BA	LB6	4	2.482	1,2,3
58.88	62 SM	LB3	5	1.962	1,2,3	59.67	65 TB	LA2	5	1.986	1,2,3
58.95	49 IN	LB10	3	3.274	1,2	59.73	55 CS	LB7	4	2.485	1,2
59.02	57 LA	LB1	4	2.458	1,2,3	59.86	34 SE	LN	1	9.959	1,2,3
59.07	53 I	LN	3	3.280	1,2,3	59.92	55 CS	LB10	4	2.492	1,2
59.10	45 RH	LN	2	4.922	1,2,3	60.07	62 SM	LB1	5	1.998	1,2,3
59.11	42 MO	LB2	2	4.923	1,2,3	60.08	22 TI	KB5	4	2.498	1,2
59.13	54 XE	LY1	4	2.462	1	60.13	62 SM	LB4	5	2.000	1,2,3
59.15	59 PR	LA1	4	2.463	1,2,3	60.19	48 CD	LY1	3	3.336	1,2,3
59.24	65 TB	LN	5	1.973	1	60.21	23 V	KA1	4	2.503	1,2,3
59.25	52 TE	LA1	3	3.289	1,2,3	60.23	49 IN	LB2	3	3.338	1,2,3
59.30	65 TB	LA1	5	1.975	1,2,3	60.28	65 TB	MA1	1	10.023	2
59.40	12 MG	KA2	1	9.889	1,2,3	60.28	65 TB	MA2	1	10.023	2
59.40	12 MG	KA1	1	9.889	1,2,3	60.30	42 MO	LB3	2	5.013	1,2,3
59.42	59 PR	LA2	4	2.473	1,2,3	60.32	23 V	KA2	4	2.507	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS							60.32 TO 62.50						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
60.32	50 SN	LB4	3	3.343	1,2,3		61.66	64 GD	LA1	5	2.046	1,2,3	
60.42	55 CS	LB2	4	2.511	1,2,3		61.70	83 BI	MA1	2	5.118	1,2	
60.42	52 TE	LY4	4	2.511	1,2		61.73	58 CE	LY1	5	2.048	1,2,3	
60.43	60 ND	LB7	5	2.009	1,2		61.76	58 CE	LA1	4	2.561	1,2,3	
60.45	59 PR	LN	4	2.512	1,2,3		61.76	64 GD	LN	5	2.049	1,2,3	
60.50	22 TI	KB3	4	2.514	1,2		61.77	43 TC	LA2	2	5.123	1	
60.50	22 TI	KB1	4	2.514	1,2,3		61.85	83 BI	MA2	2	5.129	1,2	
60.56	56 BA	LB3	4	2.516	1,2,3		61.92	52 TE	LY3	4	2.567	1,2	
60.56	16 S	KBI	2	5.032	1,2,3		61.92	56 BA	LB1	4	2.567	1,2,3	
60.61	41 NB	LY1	2	5.036	1,2,3		61.92	52 TE	LY2	4	2.567	1,3	
60.62	20 CA	KA1	3	3.358	1,2,3		61.96	48 CD	LY5	3	3.425	1,2	
60.66	60 ND	LB9	5	2.016	1,2		62.00	58 CE	LA2	4	2.570	1,2,3	
60.70	20 CA	KA2	3	3.362	1,2,3		62.03	64 GD	LA2	5	2.057	1,2,3	
60.76	68 ER	LL	5	2.019	1,2,3		62.07	48 CD	LB9	3	3.430	1,2	
60.78	42 MO	LB4	2	5.049	1,2,3		62.09	34 SE	LL	1	10.293	1,2,3	
60.78	42 MO	LB6	2	5.049	1,2,3		62.15	41 NB	LY5	2	5.151	1,2	
60.80	59 PR	LY5	5	2.020	1,2		62.19	49 IN	LB6	3	3.436	1,2,3	
60.90	60 ND	LB10	5	2.023	1,2		62.21	48 CD	LB10	3	3.437	1,2	
61.16	50 SN	LB1	3	3.385	1,2,3		62.23	52 TE	LN	3	3.438	1,2,3	
61.33	60 ND	LB2	5	2.036	1,2,3		62.25	51 SB	LA1	3	3.439	1,2,3	
61.42	32 GE	LB1	1	10.194	2,3		62.29	19 K	KB5	3	3.441	1,2	
61.50	57 LA	LY3	5	2.041	1,2,3		62.32	53 I	LY1	4	2.582	1,2,3	
61.60	56 BA	LB4	4	2.555	1,2,3		62.43	51 SB	LA2	3	3.448	1,2,3	
61.65	43 TC	LA1	2	5.114	1		62.49	42 MC	LB1	2	5.177	1,2,3	
61.66	57 LA	LY2	5	2.046	1,2,3		62.50	24 CR	KB5	5	2.071	1,2	

MICA CRYSTAL, D# 9.980 ANGSTROMS						62.55 TO 64.90					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
62.55	19 K	KB1	3	3.454	1,2,3	63.76	48 CD	LB2	3	3.514	1,2,3
62.62	55 CS	LB6	4	2.593	1,2,3	63.82	58 CE	LY5	5	2.110	1,2
62.64	56 BA	LY4	5	2.075	1,2	63.86	51 SB	LY4	4	2.639	1,2
62.84	61 PM	LB1	5	2.081	1,2,3	63.92	39 Y	LY2	2	5.283	1,2,3
62.87	44 RU	LN	2	5.205	1,2,3	63.92	39 Y	LY3	2	5.283	2
62.87	49 IN	LB3	3	3.470	1,2,3	63.94	47 AG	LY1	3	3.523	1,2,3
62.97	24 CR	KB3	5	2.085	1,2	63.95	82 PB	MA1	2	5.285	1,2
62.97	24 CR	KB1	5	2.085	1,2,3	64.12	59 PR	LB2	5	2.119	1,2,3
63.01	67 HO	LL	5	2.086	1,2,3	64.14	82 PB	MA2	2	5.299	1,2
63.03	45 RH	LL	2	5.217	1,2,3	64.19	63 EU	LA1	5	2.121	1,2,3
63.17	59 PR	LB7	5	2.091	1,2	64.29	41 NB	LB3	2	5.310	1,2,3
63.18	32 GE	LA1	1	10.456	2,3	64.34	53 I	LY5	4	2.657	1,2
63.18	32 GE	LA2	1	10.456	2	64.36	60 ND	LB3	5	2.126	1,2,3
63.26	46 PD	LY3	3	3.489	1,2	64.53	63 EU	LN	5	2.131	1
63.26	46 PD	LY2	3	3.489	1,2,3	64.56	57 LA	LA1	4	2.665	1,2,3
63.32	41 NB	LB2	2	5.238	1,2,3	64.56	63 EU	LA2	5	2.132	1,2,3
63.34	58 CE	LN	4	2.620	1,2,3	64.59	55 CS	LB4	4	2.666	1,2,3
63.48	59 PR	LB9	5	2.100	1,2	64.59	49 IN	LB1	3	3.555	1,2,3
63.50	54 XE	LB2	4	2.626	1	64.63	56 BA	LY3	5	2.134	1,2,3
63.55	25 MN	KA1	5	2.102	1,2,3	64.64	53 I	LL	3	3.557	1,2,3
63.56	55 CS	LB3	4	2.628	1,2,3	64.76	56 BA	LY2	5	2.138	1,2,3
63.61	60 ND	LB6	5	2.104	1,2,3	64.76	41 NB	LB4	2	5.345	1,2,3
63.62	49 IN	LB4	3	3.507	1,2,3	64.81	57 LA	LA2	4	2.674	1,2,3
63.68	25 MN	KA2	5	2.106	1,2,3	64.86	60 ND	LL	4	2.676	1,2,3
63.71	59 PR	LB10	5	2.107	1,2	64.90	57 LA	LY1	5	2.142	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS						64.98 TO 67.36					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
64.98	41 NB	LB6	2	5.361	1,2,3	66.34	53 I	LB7	4	2.730	1,2
65.05	55 CS	LB1	4	2.583	1,2,3	66.35	81 TL	MA1	2	5.461	1,2
65.06	33 AS	LN	1	10.733	1,3	66.44	48 CD	LB3	3	3.645	1,2,3
65.13	16 S	KA1	2	5.372	1,2,3	66.47	58 CE	LB9	5	2.188	1,2
65.17	16 S	KA2	2	5.375	1,2,3	66.50	81 TL	MA2	2	5.472	1,2
65.30	40 ZR	LY1	2	5.384	1,2,3	66.54	59 PR	LB6	5	2.190	1,2,3
65.38	51 SB	LY2	4	2.695	1,2,3	66.57	63 EU	MA1	1	10.954	1
65.38	51 SB	LY3	4	2.695	1,2	66.61	57 LA	LN	4	2.740	1,2,3
65.45	66 DY	LL	5	2.158	1,2,3	66.71	58 CE	LB10	5	2.195	1,2
65.51	50 SN	LA1	3	3.600	1,2,3	66.77	41 NB	LB1	2	5.492	1,2,3
65.60	42 MO	LA1	2	5.406	1,2,3	66.83	22 TI	KA1	4	2.748	1,2,3
65.62	47 AG	LB9	3	3.605	1,2	66.84	40 ZR	LY5	2	5.497	1,2
65.68	51 SB	LN	3	3.608	1,2,3	66.85	62 SM	LA1	5	2.199	1,2,3
65.70	50 SN	LA2	3	3.609	1,2,3	66.88	53 I	LB2	4	2.750	1,2,3
65.71	42 MO	LA2	2	5.414	1,2,3	66.93	44 RU	LL	2	5.503	1,2,3
65.74	47 AG	LB10	3	3.611	1,2	66.94	22 TI	KA2	4	2.752	1,2,3
65.75	60 ND	LB4	5	2.167	1,2,3	67.06	57 LA	LY5	5	2.205	1,2
65.75	60 ND	LB1	5	2.167	1,2,3	67.19	58 CE	LB2	5	2.209	1,2,3
65.80	48 CD	LB6	3	3.614	1,2,3	67.19	31 GA	LB1	1	11.045	3
65.84	52 TE	LY1	4	2.712	1,2,3	67.20	48 CD	LB4	3	3.682	1,2,3
65.84	47 AG	LY5	3	3.616	1,2	67.23	62 SM	LA2	5	2.210	1,2,3
65.87	53 I	LB9	4	2.713	1,2	67.26	45 RH	LY3	3	3.685	1,2
65.99	55 CS	LY4	5	2.174	1,2	67.26	45 RH	LY2	3	3.685	1,2,3
66.06	53 I	LB10	4	2.720	1,2	67.27	21 SC	KB5	4	2.764	1,2
66.20	58 CE	LB7	5	2.180	1,2	67.36	33 AS	LL	1	11.069	1,3

MICA CRYSTAL, D# 9.980 ANGSTROMS						67.47 TO 67.47					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
67.47	59 PR	LB3	5	2.217	1,2,3						

MICA CRYSTAL, D# 9.980 ANGSTROMS						67.51 TO 70.00					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
67.51	62 SM	LN	5	2.218	1,2,3	69.05	31 GA	LA1	1	11.313	3
67.57	56 BA	LA1	4	2.775	1,2,3	69.07	49 IN	LA1	3	3.772	1,3
67.63	50 SN	LY4	4	2.777	1,2	69.18	80 HG	MA1	2	5.666	1,2
67.64	47 AG	LB2	3	3.703	1,2,3	69.18	50 SN	LY2	4	2.833	1,3
67.71	21 SC	KB1	4	2.780	1,2,3	69.18	80 HG	MA2	2	5.666	1,2
67.82	59 PR	LL	4	2.784	1,2,3	69.21	40 ZR	LB4	2	5.668	1,2,3
67.85	56 BA	LA2	4	2.785	1,2,3	69.26	49 IN	LA2	3	3.781	1,2,3
67.93	52 TE	LL	3	3.717	1,2,3	69.28	23 V	KB5	5	2.269	1,2
67.99	52 TE	LY5	4	2.790	1,2	69.30	53 I	LB6	4	2.837	1,2,3
68.02	55 CS	LY3	5	2.233	1,2,3	69.35	52 TE	LB9	4	2.839	1,2
68.06	65 TB	LL	5	2.234	1,2,3	69.43	50 SN	LN	3	3.789	1,2,3
68.07	40 ZR	LB2	2	5.586	2,3	69.48	57 LA	LB7	5	2.275	1,2
68.07	46 PD	LY1	3	3.724	1,2,3	69.49	46 PC	LB9	3	3.792	1,2
68.16	55 CS	LY2	5	2.237	1,2,3	69.58	52 TE	LB10	4	2.847	1,2
68.30	56 BA	LY1	5	2.241	1,2,3	69.64	46 PC	LB10	3	3.799	1,2
68.35	54 XE	LB1	4	2.803	1	69.69	51 SB	LY1	4	2.851	1,2,3
68.36	48 CD	LB1	3	3.738	1,2,3	69.69	58 CE	LB6	5	2.281	1,2,3
68.43	19 K	KA1	3	3.741	1,2,3	69.73	57 LA	LB9	5	2.282	1,2
68.44	30 ZN	LB3	1	11.225	3	69.76	61 PM	LA1	5	2.283	1,2,3
68.51	19 K	KA2	3	3.745	1,2,3	69.80	23 V	KB3	5	2.284	1,2
68.72	40 ZR	LB3	2	5.633	1,2,3	69.80	40 ZR	LB6	2	5.710	1,2,3
68.79	59 PR	LB4	5	2.255	1,2,3	69.80	23 V	KB1	5	2.284	1,2,3
68.88	38 SR	LY3	2	5.644	1,2	69.83	47 AG	LB6	3	3.808	1,2,3
68.88	38 SR	LY2	2	5.644	1,2,3	70.00	41 NB	LA1	2	5.724	1,2,3
68.89	59 PR	LB1	5	2.258	1,2,3	70.00	56 BA	LN	4	2.862	1,2,3

MICA CRYSTAL, D# 9.98E ANGSTROMS						70.01 TO 73.19					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
70.01	24 CR	KA1	5	2.290	1,2,3	71.63	79 AU	MA1	2	5.840	1,2
70.01	57 LA	LB10	5	2.290	1,2	71.71	44 RU	LY3	3	3.897	1,2
70.02	52 TE	LB7	4	2.863	1,2	71.71	44 RU	LY2	3	3.897	1,2,3
70.08	61 PM	LA2	5	2.292	1	71.73	42 MC	LN	2	5.847	1,2,3
70.11	41 NB	LA2	2	5.732	2,3	71.80	49 IN	LY4	4	2.926	1,2
70.12	46 PD	LY5	3	3.822	1,2	71.83	79 AU	MA2	2	5.854	1,2
70.15	24 CR	KA2	5	2.294	1,2,3	71.96	46 PD	LB2	3	3.909	1,2,3
70.33	53 I	LB3	4	2.874	1,2,3	71.97	51 SB	LY5	4	2.932	1,2
70.35	47 AG	LB3	3	3.833	1,2,3	71.98	92 U	MA1	3	3.910	1,2
70.47	57 LA	LB2	5	2.303	1,2,3	72.05	55 CS	LY1	5	2.348	1,2,3
70.56	52 TE	LB2	4	2.882	1,2,3	72.09	58 CE	LB4	5	2.349	1,2,3
70.64	56 BA	LY5	5	2.308	1,2	72.11	53 I	LB1	4	2.937	1,2,3
70.75	58 CE	LB3	5	2.311	1,2,3	72.13	39 Y	LY5	2	5.875	1,2
70.78	64 GD	LL	5	2.312	1,2,3	72.28	92 U	MA2	3	3.924	1,2
70.84	58 CE	LL	4	2.892	1,2,3	72.34	58 CE	LB1	5	2.356	1,2,3
70.84	55 CS	LA1	4	2.892	1,2,3	72.50	47 AG	LB1	3	3.934	1,2,3
71.12	32 GE	LN	1	11.668	3	72.69	45 RH	LY1	3	3.943	1,2,3
71.12	55 CS	LA2	4	2.902	1,2,3	72.84	60 ND	LA1	5	2.370	1,2,3
71.12	15 P	KB1	2	5.804	1,2,3	72.97	48 CC	LA1	3	3.956	1,2,3
71.13	47 AG	LB4	3	3.870	1,2,3	73.05	56 BA	LB9	5	2.376	1,2
71.18	11 NA	KB1	1	11.617	1,3	73.08	52 TE	LB6	4	2.971	1,2,3
71.40	53 I	LB4	4	2.912	1,2,3	73.11	51 SB	LB9	4	2.972	1,2
71.43	18 A	KB1	3	3.884	1	73.16	57 LA	LB6	5	2.379	1,2,3
71.52	51 SB	LL	3	3.888	1,2,3	73.16	48 CC	LA2	3	3.965	1,2,3
71.57	40 ZR	LB1	2	5.836	1,2,3	73.19	60 ND	LA2	5	2.380	1,3

MICA CRYSTAL, D# 9.980 ANGSTROMS							73.26 TO 76.16						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
73.26	11 NA	KA1	1	11.909	1,3		74.57	78 PT	MA1	2	6.046	1,2	
73.26	11 NA	KA2	1	11.909	1,3		74.57	37 RB	LY2	2	6.046	1,2,3	
73.31	51 SB	LB1	4	2.979	1,2		74.57	51 SB	LB2	4	3.023	1,2,3	
73.34	49 IN	LY2	4	2.980	1,2,3		74.63	54 XE	LA2	4	3.025	1	
73.34	49 IN	LY3	4	2.980	1,2		74.65	46 PD	LB3	3	4.034	1,2,3	
73.45	56 BA	LB1	5	2.387	1,2		74.67	91 PA	KA2	3	4.035	1,2	
73.51	32 GE	LL	1	11.944	3		74.73	78 PT	MA2	2	6.057	1,2	
73.55	49 IN	LN	3	3.983	1,2,3		74.81	21 SC	KA1	4	3.031	1,2,3	
73.59	53 I	LY4	5	2.391	1,2		74.88	45 RH	LY5	3	4.045	1,2	
73.67	39 Y	LB3	2	5.983	1,2,3		74.92	21 SC	KA2	4	3.035	1,2,3	
73.71	55 CS	LN	4	2.993	1,2,3		74.92	40 ZR	LA1	2	6.070	1,2,3	
73.73	63 EU	LL	5	2.395	1,2,3		75.04	40 ZR	LA2	2	6.078	1,2,3	
73.94	50 SN	LY1	4	3.001	1,2,3		75.24	52 TE	LB4	4	3.046	1,2,3	
74.06	51 SB	LB7	4	3.005	1		75.27	39 Y	LB6	2	6.094	1,2,3	
74.06	56 BA	LB2	5	2.404	1,2,3		75.45	50 SN	LL	3	4.071	1,2,3	
74.08	57 LA	LL	4	3.006	1,2,3		75.45	46 PD	LB4	3	4.071	1,2,3	
74.17	52 TE	LB3	4	3.009	1,2,3		75.61	53 I	LY3	5	2.447	1,2	
74.17	39 Y	LB4	2	6.018	1,2,3		75.61	53 I	LY2	5	2.447	1,2,3	
74.24	60 ND	LN	5	2.409	1,2,3		75.68	57 LA	LB4	5	2.449	1,2,3	
74.26	46 PD	LB6	3	4.016	1,2,3		76.01	57 LA	LB1	5	2.458	1,2,3	
74.27	57 LA	LB3	5	2.410	1,2,3		76.05	20 CA	KB5	4	3.074	1,2	
74.34	54 XE	LA1	4	3.015	1		76.08	42 MC	LL	2	6.150	1,2,3	
74.39	91 PA	MA1	3	4.022	1,2		76.14	52 TE	LB1	4	3.077	1,2,3	
74.52	55 CS	LY5	5	2.417	1,2		76.16	15 P	KA2	2	6.155	1,2,3	
74.56	37 RB	LY3	2	6.045	1,2		76.16	15 P	KA1	2	6.155	1,2,3	

MICA CRYSTAL, D# 9.980 ANGSTROMS							76.16 TO 79.48						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
76.16	54 XE	LY1	5	2.462	1		77.84	56 BA	LL	4	3.135	1,2,3	
76.19	59 PR	LA1	5	2.463	1,2,3		77.89	44 RU	LY1	3	4.182	1,2,3	
76.38	50 SN	LY5	4	3.085	1,2		77.90	48 CD	LY3	4	3.137	1,2	
76.52	20 CA	KBI	4	3.090	1,2,3		77.92	77 IR	MA2	2	6.275	1,2	
76.56	59 PR	LA2	5	2.473	1,2,3		77.93	48 CD	LY2	4	3.138	1,2,3	
76.74	55 CS	LB9	5	2.478	1,2		77.95	52 TE	LY4	5	2.511	1,2	
76.76	45 RH	LB2	3	4.131	1,2,3		77.95	55 CS	LB2	5	2.511	1,2,3	
76.89	56 BA	LB6	5	2.482	1,2,3		77.99	59 PR	LN	5	2.512	1,2,3	
76.89	62 SM	LL	5	2.482	1,2,3		78.06	22 TI	KBI	5	2.514	1,2,3	
76.92	90 TH	MA1	3	4.138	1,2		78.06	22 TI	KB3	5	2.514	1,2	
76.97	41 NB	LN	2	6.211	1,2,3		78.11	18 A	KA1	3	4.192	1,2,3	
76.99	39 Y	LB1	2	6.212	1,2,3		78.13	48 CD	LN	3	4.193	1,3	
77.00	55 CS	LB7	5	2.485	1,2		78.14	56 BA	LB3	5	2.516	1,2,3	
77.09	46 PD	LB1	3	4.146	1,2,3		78.18	18 A	KA2	3	4.195	1,2,3	
77.20	90 TH	MA2	3	4.151	1,2		78.23	53 I	LA1	4	3.148	1,2,3	
77.25	55 CS	LB10	5	2.492	1,2		78.23	38 SR	LY5	2	6.296	1,2	
77.25	50 SN	LB9	4	3.115	1,2		78.35	51 SB	LB3	4	3.152	1,2,3	
77.25	51 SB	LB6	4	3.115	1,2,3		78.43	50 SN	LB7	4	3.155	1,2	
77.27	47 AG	LA1	3	4.154	1,2,3		78.52	53 I	LA2	4	3.158	1,2,3	
77.43	50 SN	LB10	4	3.121	1,2		78.64	49 IN	LY1	4	3.162	1,2,3	
77.47	47 AG	LA2	3	4.163	1,2,3		79.03	50 SN	LB2	4	3.175	1,2,3	
77.47	22 TI	KB5	5	2.498	1,2		79.22	45 RH	LB6	3	4.242	1,2,3	
77.66	23 V	KA1	5	2.503	1,2,3		79.28	38 SR	LB3	2	6.367	1,2,3	
77.71	77 IR	MA1	2	6.261	1,2		79.45	45 RH	LB3	3	4.252	1,2,3	
77.81	23 V	KA2	5	2.507	1,2,3		79.48	51 SB	LB4	4	3.190	1,2,3	

MICA CRYSTAL, DW 9.98E ANGSTROMS							79.59 TC 83.91						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
79.59	56 BA	LB4	5	2.555	1,2,3		82.04	58 CE	LN	5	2.620	1,2,3	
79.81	58 CE	LA1	5	2.561	1,2,3		82.07	46 PD	LA1	3	4.368	1,2,3	
79.82	38 SR	LB4	2	6.403	1,2,3		82.16	44 RU	LB2	3	4.372	1,2,3	
79.83	49 IN	LL	3	4.269	1,2,3		82.19	53 I	LN	4	3.280	1,2,3	
80.04	56 BA	LB1	5	2.567	1,2,3		82.21	45 RH	LB1	3	4.374	1,2,3	
80.04	52 TE	LY2	5	2.567	1,3		82.25	46 PD	LA2	3	4.376	1,2,3	
80.04	52 TE	LY3	5	2.567	1,2		82.27	54 XE	LB2	5	2.626	1	
80.15	58 CE	LA2	5	2.570	1,2,3		82.34	55 CS	LB3	5	2.628	1,2,3	
80.23	44 RU	LY5	3	4.287	1,2		82.34	42 MC	LY2	3	4.380	1,2,3	
80.28	45 RH	LB4	3	4.289	1,2,3		82.34	42 MC	LY3	3	4.380	1,2	
80.51	39 Y	LA1	2	6.449	1,2,3		82.46	52 TE	LA1	4	3.289	1,2,3	
80.55	51 SB	LB1	4	3.226	1,2,3		82.74	52 TE	LA2	4	3.298	1,2,3	
80.60	53 I	LY1	5	2.582	1,2,3		82.76	51 SB	LY4	5	2.639	1,2	
80.62	39 Y	LA2	2	6.456	1,2,3		82.87	17 CL	KB1	3	4.403	1,2,3	
81.01	55 CS	LB6	5	2.593	1,2,3		82.91	40 ZR	LN	2	6.607	1,2,3	
81.13	76 OS	MA1	2	6.490	1,2		82.98	50 SN	LB3	4	3.306	1,2,3	
81.13	76 OS	MA2	2	6.490	1,2		82.98	47 AG	LY2	4	3.306	1,3	
81.25	49 IN	LY5	4	3.249	1,2		82.98	47 AG	LY3	4	3.306	1,2	
81.54	41 NB	LL	2	6.517	1,2,3		83.17	38 SR	LB1	2	6.624	1,2,3	
81.57	38 SR	LB6	2	6.519	1,2,3		83.22	47 AG	LN	3	4.418	1,2,3	
81.70	75 RE	MA1	2	6.528	1,2		83.45	53 I	LY5	5	2.657	1,2	
81.79	55 CS	LL	4	3.267	1,2,3		83.72	43 TC	LY1	3	4.440	1	
81.83	49 IN	LB9	4	3.268	1,2		83.76	57 LA	LA1	5	2.665	1,2,3	
81.86	50 SN	LB6	4	3.269	1,2,3		83.80	55 CS	LB4	5	2.666	1,2,3	
82.01	49 IN	LB10	4	3.274	1,2		83.91	48 CD	LY1	4	3.336	1,2,3	

MICA CRYSTAL, D# 9.980 ANGSTROMS						83.97 TO 88.68					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
83.97	49 IN	LB2	4	3.338	1,2,3	86.89	38 SR	LA1	2	6.863	1,2,3
84.11	57 LA	LA2	5	2.674	1,2,3	86.99	38 SR	LA2	2	6.869	1,2,3
84.13	50 SN	LB4	4	3.343	1,2,3	87.00	22 TI	KA1	5	2.748	1,2,3
84.19	60 ND	LL	5	2.676	1,2,3	87.03	49 IN	LB6	4	3.436	1,2,3
84.46	55 CS	LB1	5	2.683	1,2,3	87.07	48 CD	LB10	4	3.437	1,2
84.59	20 CA	KA1	4	3.358	1,2,3	87.08	53 I	LB2	5	2.750	1,2,3
84.65	48 CD	LL	3	4.480	1,2,3	87.10	52 TE	LN	4	3.438	1,2,3
84.71	20 CA	KA2	4	3.362	1,2,3	87.13	51 SB	LA1	4	3.439	1,2,3
84.81	44 RU	LB6	3	4.487	1,2,3	87.16	22 TI	KA2	5	2.752	1,2,3
84.81	44 RU	LB3	3	4.487	1,2,3	87.19	19 K	KB5	4	3.441	1,2
84.92	51 SB	LY3	5	2.695	1,2	87.41	45 RH	LA1	3	4.597	1,2,3
84.92	51 SB	LY2	5	2.695	1,2,3	87.42	51 SB	LA2	4	3.448	1,2,3
85.18	37 RB	LY5	2	6.754	1,2	87.60	45 RH	LA2	3	4.605	1,2,3
85.40	14 SI	KB1	2	6.768	1,2,3	87.61	19 K	KB1	4	3.454	1,2,3
85.43	50 SN	LB1	4	3.385	1,2,3	87.64	21 SC	KB5	5	2.764	1,2
85.59	52 TE	LY1	5	2.712	1,2,3	87.77	40 ZR	LL	2	6.918	1,2,3
85.63	53 I	LB9	5	2.713	1,2	87.96	44 RU	LB1	3	4.620	1,2,3
85.66	44 RU	LB4	3	4.523	1,2,3	88.08	56 BA	LA1	5	2.775	1,2,3
85.70	37 RB	LB3	2	6.787	1,2,3	88.12	49 IN	LB3	4	3.470	1,2,3
85.90	53 I	LB10	5	2.720	1,2	88.16	50 SN	LY4	5	2.777	1,2
86.21	37 RB	LB4	2	6.820	1,2,3	88.28	21 SC	KB1	5	2.780	1,2,3
86.29	53 I	LB7	5	2.730	1,2	88.34	43 TC	LB2	3	4.636	1
86.69	57 LA	LN	5	2.740	1,2,3	88.44	59 PR	LL	5	2.784	1,2,3
86.69	48 CD	LY5	4	3.425	1,2	88.48	56 BA	LA2	5	2.785	1,2,3
86.84	48 CD	LB9	4	3.430	1,2	88.68	52 TE	LY5	5	2.790	1,2

MICA CRYSTAL, D# 9.980 ANGSTROMS							88.72 TO 89.82						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
88.72	46 PD	LY2	4	3.489	1,2,3								
88.72	46 PD	LY3	4	3.489	1,2								
88.77	41 NB	LY2	3	4.654	1,2,3								
88.77	41 NB	LY3	3	4.654	1,2								
88.81	74 W	MA1	2	6.983	1,2								
88.82	37 RB	LB6	2	6.984	1,2,3								
88.92	74 W	MA2	2	6.990	1,2								
88.92	46 PD	LN	3	4.660	1,2,3								
89.20	54 XE	LB1	5	2.803	1								
89.30	49 IN	LB4	4	3.507	1,2,3								
89.53	48 CD	LB2	4	3.514	1,2,3								
89.73	39 Y	LN	2	7.040	1,2,3								
89.82	47 AG	LY1	4	3.523	1,2,3								

MICA CRYSTAL, D# 9.980 ANGSTROMS							90.06 TO 96.20						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
90.06	47 AG	LL	3	4.707	1,2,3		92.85	58 CE	LL	5	2.892	1,2,3	
90.31	37 RB	LB1	2	7.076	1,2,3		92.88	47 AG	LY5	4	3.616	1,2	
90.42	50 SN	LY2	5	2.833	1,3		93.20	73 TA	MA1	2	7.251	1,2	
90.52	42 MC	LY1	3	4.726	1,2,3		93.26	55 CS	LA2	5	2.902	1,2,3	
90.57	17 CL	KA1	3	4.728	1,2,3		93.27	42 MC	LY5	3	4.837	1,2	
90.58	53 I	LB6	5	2.837	1,2,3		93.31	73 TA	MA2	2	7.258	1,2	
90.62	17 CL	KA2	3	4.730	1,2,3		93.50	44 RU	LA1	3	4.846	1,2,3	
90.66	52 TE	LB9	5	2.839	1,2		93.67	44 RU	LA2	3	4.853	1,2,3	
90.86	49 IN	LB1	4	3.555	1,2,3		93.68	53 I	LB4	5	2.912	1,2,3	
90.93	53 I	LL	4	3.557	1,2,3		93.85	48 CD	LB3	4	3.645	1,2,3	
90.99	52 TE	LB10	5	2.847	1,2		94.27	49 IN	LY4	5	2.926	1,2	
91.11	14 SI	KA1	2	7.125	1,2,3		94.32	37 RB	LA1	2	7.318	1,2,3	
91.15	51 SB	LY1	5	2.851	1,2,3		94.44	37 RB	LA2	2	7.325	1,2,3	
91.16	14 SI	KA2	2	7.128	1,2,3		94.46	43 TC	LB1	3	4.884	1	
91.60	56 BA	LN	5	2.862	1,2,3		94.52	51 SB	LY5	5	2.932	1,2	
91.64	52 TE	LB7	5	2.863	1,2		94.74	53 I	LB1	5	2.937	1,2,3	
92.10	53 I	LB3	5	2.874	1,2,3		94.97	39 Y	LL	2	7.356	1,2,3	
92.35	50 SN	LA1	4	3.600	1,2,3		95.10	48 CC	LB4	4	3.682	1,2,3	
92.43	52 TE	LB2	5	2.882	1,2,3		95.20	45 RH	LY2	4	3.685	1,2,3	
92.51	47 AG	LB9	4	3.605	1,2		95.20	45 RH	LY3	4	3.685	1,2	
92.61	51 SB	LN	4	3.608	1,2,3		95.42	45 RH	LN	3	4.922	1,2,3	
92.65	50 SN	LA2	4	3.609	1,2,3		95.45	42 MC	LB2	3	4.923	1,2,3	
92.71	47 AG	LB10	4	3.611	1,2		95.82	47 AG	LB2	4	3.703	1,2,3	
92.81	48 CD	LB6	4	3.614	1,2,3		96.19	52 TE	LB6	5	2.971	1,2,3	
92.85	55 CS	LA1	5	2.892	1,2,3		96.20	46 PD	LL	3	4.952	1,2,3	

MICA CRYSTAL, DH 9.980 ANGSTROMS						96.22 TO 102.17					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
96.22	40 ZR	LY2	3	4.953	1,2,3	98.53	49 IN	LA2	4	3.781	1,2,3
96.22	40 ZR	LY3	3	4.953	1,2	98.53	54 XE	LA2	5	3.025	1
96.23	51 SB	LB9	5	2.972	1,2	98.63	36 KR	LB1	2	7.568	1
96.30	52 TE	LL	4	3.717	1,2,3	98.73	42 MC	LB6	3	5.049	1,2,3
96.53	51 SB	LB10	5	2.979	1,2	98.73	42 MC	LB4	3	5.049	1,2,3
96.54	46 PD	LY1	4	3.724	1,2,3	98.80	21 SC	KA1	5	3.031	1,2,3
96.57	49 IN	LY3	5	2.980	1,2	98.81	50 SN	LN	4	3.789	1,2,3
96.57	49 IN	LY2	5	2.980	1,2,3	98.91	46 PD	LB9	4	3.792	1,2
97.02	48 CD	LB1	4	3.738	1,2,3	98.98	21 SC	KA2	5	3.035	1,2,3
97.13	19 K	KA1	4	3.741	1,2,3	99.16	46 PD	LB10	4	3.799	1,2
97.14	55 CS	LN	5	2.993	1,2,3	99.46	52 TE	LB4	5	3.046	1,2,3
97.27	19 K	KA2	4	3.745	1,2,3	99.48	47 AG	LB6	4	3.803	1,2,3
97.48	50 SN	LY1	5	3.001	1,2,3	99.98	46 PD	LY5	4	3.822	1,2
97.66	51 SB	LB7	5	3.005	1	100.37	47 AG	LB3	4	3.833	1,2,3
97.70	57 LA	LL	5	3.006	1,2,3	100.46	43 TC	LA1	3	5.114	1
97.74	38 SR	LN	2	7.517	1,2,3	100.57	83 BI	MA1	3	5.118	1,2
97.78	42 MC	LB3	3	5.013	1,2,3	100.71	43 TC	LA2	3	5.123	1
97.83	52 TE	LB3	5	3.009	1,2,3	100.71	20 CA	KB5	5	3.074	1,2
98.10	54 XE	LA1	5	3.015	1	100.85	52 TE	LB1	5	3.077	1,2,3
98.12	72 HF	MA1	2	7.539	1,2	100.87	83 BI	MA2	3	5.129	1,2
98.21	49 IN	LA1	4	3.772	1,3	101.21	50 SN	LY5	5	3.085	1,2
98.24	72 HF	MA2	2	7.546	1,2	101.44	20 CA	KB1	5	3.090	1,2,3
98.28	16 S	KB1	3	5.032	1,2,3	101.46	41 NB	LY5	3	5.151	1,2
98.39	41 NB	LY1	3	5.036	1,2,3	101.71	47 AG	LB4	4	3.870	1,2,3
98.45	51 SB	LB2	5	3.023	1,2,3	102.17	42 MC	LB1	3	5.177	1,2,3

MICA CRYSTAL, D# 9.980 ANGSTROMS							102.22 TO 108.31						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
102.22	18 A	KB1	4	3.884	1		104.57	53 I	LA2	5	3.158	1,2,3	
102.37	51 SB	LL	4	3.888	1,2,3		104.76	49 IN	LY1	5	3.162	1,2,3	
102.58	51 SB	LB6	5	3.115	1,2,3		104.89	48 CD	LA1	4	3.956	1,2,3	
102.58	50 SN	LB9	5	3.115	1,2		105.13	39 Y	LY2	3	5.283	1,2,3	
102.70	44 RU	LY3	4	3.897	1,2		105.13	39 Y	LY3	3	5.283	2	
102.70	44 RU	LY2	4	3.897	1,2,3		105.19	82 PB	MA1	3	5.285	1,2	
102.85	50 SN	LB10	5	3.121	1,2		105.23	48 CD	LA2	4	3.965	1,2,3	
102.95	44 RU	LN	3	5.205	1,2,3		105.38	50 SN	LB2	5	3.175	1,2,3	
103.01	36 KR	LA1	2	7.811	1		105.58	82 PB	MA2	3	5.299	1,2	
103.01	36 KR	LA2	2	7.811	1		105.90	41 NB	LB3	3	5.310	1,2,3	
103.14	46 PD	LB2	4	3.909	1,2,3		105.92	49 IN	LN	4	3.983	1,2,3	
103.18	92 U	MA1	4	3.910	1,2		106.09	51 SB	LB4	5	3.190	1,2,3	
103.28	45 RH	LL	3	5.217	1,2,3		106.20	13 AL	KB1	2	7.981	1,2,3	
103.47	38 SR	LL	2	7.836	1,2,3		106.90	41 NB	LB4	3	5.345	1,2,3	
103.50	56 BA	LL	5	3.135	1,2,3		107.18	46 PD	LB6	4	4.016	1,2,3	
103.55	71 LU	MA1	2	7.840	1,2		107.36	37 RB	LN	2	8.041	1,2,3	
103.59	48 CD	LY3	5	3.137	1,2		107.37	41 NB	LB6	3	5.361	1,2,3	
103.64	48 CD	LY2	5	3.138	1,2,3		107.42	91 PA	MA1	4	4.022	1,2	
103.70	92 U	MA2	4	3.924	1,2		107.69	16 S	KA1	3	5.372	1,2,3	
103.86	41 NB	LB2	3	5.238	1,2,3		107.78	16 S	KA2	3	5.375	1,2,3	
104.07	47 AG	LB1	4	3.934	1,2,3		107.82	51 SB	LB1	5	3.226	1,2,3	
104.11	53 I	LA1	5	3.148	1,2,3		107.88	46 PD	LB3	4	4.034	1,2,3	
104.29	51 SB	LB3	5	3.152	1,2,3		107.92	91 PA	MA2	4	4.035	1,2	
104.40	45 RH	LY1	4	3.943	1,2,3		108.04	40 ZR	LY1	3	5.384	1,2,3	
104.43	50 SN	LB7	5	3.155	1,2		108.31	45 RH	LY5	4	4.045	1,2	

MICA CRYSTAL, D# 9.98C ANGSTROMS							108.69 TO 112.38						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
108.69	42 MO	LA1	3	5.466	1,2,3								
108.92	42 MO	LA2	3	5.414	1,2,3								
108.95	49 IN	LY5	5	3.249	1,2								
109.00	35 BR	LB1	2	8.125	2,3								
109.26	70 YB	MA1	2	8.138	1,2								
109.34	46 PD	LB4	4	4.071	1,2,3								
109.34	50 SN	LL	4	4.071	1,2,3								
109.58	70 YB	MA2	2	8.154	1,2								
109.85	55 CS	LL	5	3.267	1,2,3								
109.90	49 IN	LB9	5	3.268	1,2								
109.95	50 SN	LB6	5	3.269	1,2,3								
110.20	49 IN	LB10	5	3.274	1,2								
110.33	81 TL	MA1	3	5.461	1,2								
110.50	53 I	LN	5	3.280	1,2,3								
110.66	81 TL	MA2	3	5.472	1,2								
110.95	52 TE	LA1	5	3.289	1,2,3								
111.27	41 NB	LB1	3	5.492	1,2,3								
111.41	52 TE	LA2	5	3.298	1,2,3								
111.42	40 ZR	LY5	3	5.497	1,2								
111.60	44 RU	LL	3	5.503	1,2,3								
111.76	45 RH	LB2	4	4.131	1,2,3								
111.82	50 SN	LB3	5	3.306	1,2,3								
111.82	47 AG	LY3	5	3.306	1,2								
111.82	47 AG	LY2	5	3.306	1,3								
112.04	90 TH	MA1	4	4.13E	1,2								

MICA CRYSTAL, D# 9.980 ANGSTROMS						112.58 TO 122.17					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
112.58	90 TH	MA2	4	4.151	1,2	116.77	80 HG	MA2	3	5.666	1,2
112.71	47 AG	LA1	4	4.154	1,2,3	116.77	80 HG	MA1	3	5.666	1,2
113.08	47 AG	LA2	4	4.163	1,2,3	116.84	40 ZR	LB4	3	5.668	1,2,3
113.33	13 AL	KA1	2	8.338	1,2,3	116.88	45 RH	LB3	4	4.252	1,2,3
113.37	48 CD	LY1	5	3.336	1,2,3	117.63	49 IN	LL	4	4.269	1,2,3
113.37	13 AL	KA2	2	8.340	1,2,3	118.18	48 CD	LY5	5	3.425	1,2
113.48	49 IN	LB2	5	3.338	1,2,3	118.23	40 ZR	LB6	3	5.710	1,2,3
113.74	50 SN	LB4	5	3.343	1,2,3	118.43	44 RU	LY5	4	4.287	1,2
113.85	37 RB	LL	2	8.363	1,2,3	118.46	48 CD	LB9	5	3.430	1,2
113.88	44 RU	LY1	4	4.182	1,2,3	118.52	45 RH	LB4	4	4.289	1,2,3
114.11	35 BR	LA1	2	8.375	1,2,3	118.70	41 NB	LA1	3	5.724	1,2,3
114.11	35 BR	LA2	2	8.375	1,2	118.79	49 IN	LB6	5	3.436	1,2,3
114.19	40 ZR	LB2	3	5.586	2,3	118.85	48 CD	LB10	5	3.437	1,2
114.30	18 A	KA1	4	4.192	1,2,3	118.91	52 TE	LN	5	3.438	1,2,3
114.34	48 CD	LN	4	4.193	1,3	118.96	51 SB	LA1	5	3.439	1,2,3
114.42	18 A	KA2	4	4.195	1,2,3	118.98	41 NB	LA2	3	5.732	2,3
114.53	20 CA	KA1	5	3.358	1,2,3	119.08	19 K	KB5	5	3.441	1,2
114.74	20 CA	KA2	5	3.362	1,2,3	119.47	51 SB	LA2	5	3.448	1,2,3
115.70	40 ZR	LB3	3	5.633	1,2,3	119.82	19 K	KB1	5	3.454	1,2,3
115.92	69 TM	MA1	2	8.460	1,2	120.74	49 IN	LB3	5	3.470	1,2,3
115.92	69 TM	MA2	2	8.460	1,2	121.46	15 P	KB1	3	5.804	1,2,3
115.98	50 SN	LB1	5	3.385	1,2,3	121.85	46 PD	LY3	5	3.489	1,2
116.05	38 SR	LY3	3	5.644	1,2	121.85	46 PD	LY2	5	3.489	1,2,3
116.05	38 SR	LY2	3	5.644	1,2,3	122.17	34 SE	LB1	2	8.736	1,2,3
116.44	45 RH	LB6	4	4.242	1,2,3	122.17	46 PD	LA1	4	4.368	1,2,3

MICA CRYSTAL, D# 9.98E ANGSTROMS						122.36 TO 134.77					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
122.36	44 RU	LB2	4	4.372	1,2,3	128.53	34 SE	LA1	2	8.990	1,2,3
122.46	45 RH	LB1	4	4.374	1,2,3	128.79	50 SN	LA1	5	3.600	1,2,3
122.55	46 PD	LA2	4	4.376	1,2,3	129.13	47 AG	LB9	5	3.605	1,2
122.60	40 ZR	LB1	3	5.836	1,2,3	129.33	51 SB	LN	5	3.608	1,2,3
122.75	79 AU	MA1	3	5.840	1,2	129.39	50 SN	LA2	5	3.609	1,2,3
122.75	42 MO	LY2	4	4.380	1,2,3	129.51	39 Y	LB4	3	6.018	1,2,3
122.75	42 MO	LY3	4	4.380	1,2	129.53	47 AG	LB10	5	3.611	1,2
122.93	49 IN	LB4	5	3.507	1,2,3	129.73	48 CD	LB6	5	3.614	1,2,3
123.00	42 MO	LN	3	5.847	1,2,3	129.87	47 AG	LY5	5	3.616	1,2
123.25	79 AU	MA2	3	5.854	1,2	130.03	44 RU	LB4	4	4.523	1,2,3
123.35	48 CD	LB2	5	3.514	1,2,3	130.62	37 RB	LY3	3	6.045	1,2
123.86	17 CL	KB1	4	4.443	1,2,3	130.66	37 RB	LY2	3	6.046	1,2,3
123.89	47 AG	LY1	5	3.523	1,2,3	130.66	78 PT	MA1	3	6.046	1,2
124.02	39 Y	LY5	3	5.875	1,2	131.11	78 PT	MA2	3	6.057	1,2
124.59	47 AG	LN	4	4.418	1,2,3	131.66	40 ZR	LA1	3	6.070	1,2,3
125.69	43 TC	LY1	4	4.440	1	131.87	48 CD	LB3	5	3.645	1,2,3
125.88	49 IN	LB1	5	3.555	1,2,3	131.99	40 ZR	LA2	3	6.078	1,2,3
126.01	53 I	LL	5	3.557	1,2,3	132.68	39 Y	LB6	3	6.094	1,2,3
126.96	33 AS	LB3	2	8.930	1,2,3	134.22	45 RH	LA1	4	4.597	1,2,3
126.96	33 AS	LB4	2	8.930	1,2	134.54	48 CD	LB4	5	3.682	1,2,3
127.74	48 CD	LL	4	4.480	1,2,3	134.69	45 RH	LA2	4	4.605	1,2,3
128.11	44 RU	LB6	4	4.487	1,2,3	134.77	45 RH	LY3	5	3.685	1,2
128.11	44 RU	LB3	4	4.487	1,2,3	134.77	45 RH	LY2	5	3.685	1,2,3
128.12	39 Y	LB3	3	5.983	1,2,3						
128.53	34 SE	LA2	2	8.990	1,2						

MICA CRYSTAL, D# 9.980 ANGSTROMS						135.14 TO 148.47					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
135.14	42 MO	LL	3	6.150	1,2,3	142.70	17 CL	KA1	4	4.728	1,2,3
135.37	15 P	KA1	3	6.155	1,2,3	142.85	17 CL	KA2	4	4.730	1,2,3
135.37	15 P	KA2	3	6.155	1,2,3	143.30	50 SN	LN	5	3.789	1,2,3
135.59	44 RU	LBI	4	4.620	1,2,3	143.57	46 PD	LB9	5	3.792	1,2
136.02	35 BR	LN	2	9.254	1,3	144.22	46 PD	LB10	5	3.799	1,2
136.13	47 AG	LB2	5	3.753	1,2,3	145.07	47 AG	LB6	5	3.808	1,2,3
136.58	43 TC	LB2	4	4.636	1	146.26	38 SR	LB3	3	6.367	1,2,3
137.22	52 TE	LL	5	3.717	1,2,3	146.44	46 PD	LY5	5	3.822	1,2
137.71	41 NB	LY3	4	4.654	1,2	146.56	12 MG	KB1	2	9.558	1,2,3
137.71	41 NB	LY2	4	4.654	1,2,3	147.55	47 AG	LB3	5	3.833	1,2,3
137.77	46 PC	LY1	5	3.724	1,2,3	147.57	35 BR	LL	2	9.583	1,2,3
137.98	41 NB	LN	3	6.211	1,2,3	148.47	38 SR	LB4	3	6.403	1,2,3
138.03	39 Y	LBI	3	6.212	1,2,3						
138.09	46 PD	LN	4	4.660	1,2,3						
138.90	48 CD	LBI	5	3.738	1,2,3						
139.15	19 K	KA1	5	3.741	1,2,3						
139.48	19 K	KA2	5	3.745	1,2,3						
140.45	77 IR	MA1	3	6.261	1,2						
141.17	77 IR	MA2	3	6.275	1,2						
141.22	47 AG	LL	4	4.707	1,2,3						
141.22	33 AS	LBI	2	9.414	1,3						
141.78	49 IN	LA1	5	3.772	1,3						
142.27	38 SR	LY5	3	6.296	1,2						
142.56	42 MO	LY1	4	4.726	1,2,3						
142.58	49 IN	LA2	5	3.781	1,2,3						