MASTER

X-RAY FLUORESCENCE TABLES: MICA-48 CRYSTAL

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Y-12 PLANT
Oak Ridge, Tennessee

UNION
CARBIDE

UNION CARBIDE CORPORATION
NUCLEAR DIVISION

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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-48 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-48 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-48 crystal.

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- (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# 9.948 ANGSTRCMS									
ORDER	KAI	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1	
1	73.53	73.53	71.45								
2											
3											
4											
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											
12 MG											
ORDER	KAI	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1	
1	59.61	59.61	57.42								
2			47.81								
3											
4											
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											

15 P		MICA CRYSTAL, D# 9.948 ANGSTRMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	36.04	36.04	33.92							
2	76.45	76.45	71.38							
3	136.27	136.27	122.13							
4										
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										
16 S										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	31.33	31.35	29.30							
2	65.37	55.41	60.77							
3	108.19	108.28	98.71							
4										
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										
	KB3	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

17 CL		MICA CRYSTAL, D# 9.948 ANGSTRCMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	27.49	27.51	25.57							
2	56.75	56.78	52.54							
3	90.94	90.99	83.20							
4	143.81	143.96	124.55							
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	KB5	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
2										
3										
4										
5										
18 A										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	24.33	24.34	22.51							
2	49.84	49.88	45.96							
3	78.41	78.48	71.70							
4	114.87	115.90	102.68							
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	KB5	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
2										
3										
4										
5										

19 K MICA CRYSTAL, D# 9.948 ANGSTRMS										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	21.63	21.70	19.99				19.92			
2	44.13	44.23	40.63				40.47			
3	68.63	68.76	62.77				62.51			
4	97.55	97.69	87.96				87.55			
5	140.15	140.49	120.46				119.71			
	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	LYE	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										
20 CA										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	19.43	19.46	17.87				17.78			
2	39.46	39.53	36.19				36.00			
3	61.84	60.92	55.54				55.23			
4	84.93	85.35	76.81				76.34			
5	115.11	115.22	101.89				101.16			
	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	LYE	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

23 V MICA CRYSTAL, D# 9.948 ANGSTRCMS										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	14.45	14.48	13.18		13.18		13.10			
2	29.15	29.19	26.55		26.55		26.37			
3	44.35	44.42	40.29		40.29		40.01			
4	60.43	60.53	54.67		54.67		54.28			
5	77.96	78.10	70.66		70.66		69.53			
	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										
	KBD	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	13.22	13.24	12.03		12.03		11.95			
2	26.62	26.66	24.20		24.20		24.03			
3	40.40	40.47	36.65		36.65		36.39			
4	54.83	54.93	49.57		49.57		49.21			
5	70.27	70.41	63.20		63.20		62.73			
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1										
2										
3										
4										
5										
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	ME	MY
1										
2										
3										
4										
5										
	KBD	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

27 CO		MICA CRYSTAL, D# 9.948 ANGSTRCMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	10.32	10.34	9.35				9.28			
2	20.72	20.77	18.76				18.62			
3	31.30	31.37	28.30				28.08			
4	42.16	42.26	38.04				37.75			
5	53.43	53.56	48.08				47.70			
	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										
28 NI										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	9.56	9.58	8.65	8.58			8.58			
2	19.19	19.23	17.34	17.22			17.22			
3	28.96	29.03	26.14	25.95			25.95			
4	38.94	39.04	35.10	34.84			34.84			
5	49.25	49.38	44.29	43.95			43.95			
	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										

[illegible]

31 GA		MICA CRYSTAL, D# 9.948 ANGSTROMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	7.72	7.75	6.96	6.89	6.96		6.96	69.31		67.44
2	15.48	15.53	13.95	13.81	13.95		13.82			
3	23.31	23.38	20.99	20.78	20.99		20.80			
4	31.26	31.35	28.11	27.83	28.11		27.85			
5	39.36	39.48	35.35	34.98	35.35		35.01			
	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										
32 GE										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	7.23	7.25	6.51	6.44	6.51		6.45	63.41	63.41	61.64
2	14.48	14.53	13.03	12.89	13.03		12.92			
3	21.80	21.87	19.60	19.39	19.60		19.42			
4	29.20	29.30	26.24	25.95	26.24		26.00			
5	36.74	36.86	32.97	32.61	32.97		32.67			
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1										
2										
3										
4										
5										
	LY3	LY4	LY5	LY6	LN 71.38	LL 73.79	MA1	MA2	MB	MY
1										
2										
3										
4										
5										
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

35 HR		MICA CRYSTAL, D# 9.948 ANGSTROMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	5.99	6.02	5.38	5.31	5.38		5.33	49.79	49.79	48.21
2	12.00	12.05	10.76	10.62	10.76		10.67	114.68	114.68	109.52
3	18.04	18.11	16.17	15.97	16.17		16.03			
4	24.14	24.23	21.62	21.34	21.62		21.44			
5	30.30	30.42	27.12	26.77	27.12		26.88			
	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					55.44	57.59				
2					136.94	148.86				
3										
4										
5										
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										
36 KR										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	5.65	5.67	5.06	4.99	5.06	4.99	5.02	46.23	46.23	44.71
2	11.31	11.35	10.13	9.99	10.14	9.99	10.05	103.48	103.48	99.06
3	17.00	17.07	15.22	15.01	15.23	15.01	15.09			
4	22.73	22.82	20.33	20.05	20.36	20.05	20.17			
5	28.52	28.63	25.49	25.14	25.52	25.14	25.29			
	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										

39 Y MICA CRYSTAL, D# 9.948 ANGSTROMS										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	4.73	4.80	4.27	4.20	4.27	4.19	4.23	37.83	37.87	36.39
2	9.55	9.61	8.54	8.40	8.54	8.38	8.46	80.82	80.93	77.28
3	14.36	14.43	12.83	12.62	12.83	12.59	12.71			139.00
4	19.17	19.28	17.14	16.86	17.14	16.81	16.97			
5	24.06	24.17	21.46	21.11	21.45	21.05	21.26			
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1		35.00	35.21		35.67					30.80
2		73.94	74.45		75.55					64.15
3		128.88	130.30		133.53					105.61
4										
5										
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	30.80		34.35		41.44	43.40				
2	64.15		72.40		90.09	95.37				
3	105.61		124.71							
4										
5										
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										
40 ZR										
ORDER	KA	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	4.53	4.55	4.04	3.97	4.04		4.01	35.53	35.58	34.11
2	9.06	9.11	8.09	7.95	8.09		8.02	75.20	75.32	71.84
3	13.01	13.08	12.15	11.94	12.15		12.05	132.49	132.83	123.28
4	18.8	18.28	16.23	15.95	16.23		16.09			
5	22.88	22.90	20.32	19.97	20.32		20.15			
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	32.31	32.89	33.10		33.36				31.40	28.83
2	68.32	68.98	69.47		70.06				65.53	59.72
3	114.76	116.29	117.44		118.85				108.55	96.63
4										
5										
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	28.33		32.08		38.79	40.69				
2	59.72		67.09		83.23	88.12				
3	96.53		111.96							
4										
5										
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

41	NO	MICA CRYSTAL, D# 9.948 ANGSTROMS									
	ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
	1	4.30	4.32	3.84	3.77	3.84		3.80	33.44	33.49	32.05
	2	8.60	8.65	7.68	7.54	7.68		7.61	70.25	70.37	67.02
	3	12.92	12.99	11.53	11.32	11.53		11.42	119.33	119.60	111.81
	4	17.25	17.34	15.39	15.11	15.39		15.25			
	5	21.61	21.73	19.27	18.92	19.27		19.09			
		LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
	1	33.53	30.96	31.17		31.26				29.32	27.06
	2	63.54	64.52	65.00		65.22				60.83	55.79
	3	104.33	106.39	107.40		107.87				98.81	89.14
	4										138.67
	5										
		LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
	1	27.06		30.01		36.38	38.24				
	2	55.79		62.37		77.27	81.86				
	3	89.14		101.92		138.95					
	4	138.67									
	5										
		KB6	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	4.08	4.11	3.64	3.58	3.65	3.57	3.61	31.53	31.58	30.16
	2	8.17	8.22	7.28	7.16	7.30	7.15	7.23	65.83	65.94	62.72
	3	12.27	12.34	10.94	10.75	10.95	10.73	10.85	109.20	109.44	102.63
	4	16.39	16.48	14.60	14.34	14.62	14.32	14.48			
	5	20.53	20.64	18.28	17.96	18.31	17.93	18.13			
		LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
	1	28.65	29.19	29.40		29.40				27.48	25.44
	2	59.32	60.52	61.00		61.00				56.73	52.24
	3	95.86	98.20	99.16		99.16				90.89	82.67
	4									143.66	123.42
	5										
		LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
	1	25.44		28.14		34.18	36.01				
	2	52.24		58.19		72.00	76.37				
	3	82.67		93.66		123.68	136.04				
	4	123.42									
	5										
		KB6	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
	1										
	2										
	3										
	4										
	5										

43 TC MICA CRYSTAL, D# 9.948 ANGSTROMS										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	3.83	3.89	3.47	3.40	3.45	3.40		29.79	29.64	28.42
2	7.75	7.79	6.94	6.80	6.93	6.80		61.87	61.59	58.81
3	11.65	11.70	10.42	10.21	10.40	10.21		100.91	101.15	94.86
4	15.55	15.62	13.90	13.62	13.83	13.62				
5	19.47	19.56	17.40	17.05	17.37	17.05				
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	26.95								25.79	
2	55.55								53.02	
3	88.72								84.05	
4	137.51								126.41	
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										
44 RU										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	3.70	3.73	3.29	3.24	3.30		3.27	28.19	28.24	26.85
2	7.41	7.46	6.59	6.48	6.60		6.55	58.30	58.40	55.34
3	11.13	11.20	9.90	9.72	9.91		9.83	93.89	94.07	88.31
4	14.86	14.95	13.21	12.98	13.23		13.11			136.51
5	18.60	18.72	16.53	16.24	16.56		16.41			
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	25.39	26.57	26.28		26.07				24.27	22.59
2	52.84	53.62	54.09		53.62				49.72	46.13
3	82.48	85.15	86.00		85.15				78.19	71.97
4	123.04	128.27	130.83		128.87				114.44	103.16
5										
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	22.59		24.89		30.33	32.11				
2	46.43		51.05		63.10	67.17				
3	71.57		80.54		103.41	112.15				
4	103.16		119.06							
5										
	KB0	LB15	LB17	LB17	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

45 RH		MICA CRYSTAL, D# 9.948 ANGSTRCMS									
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1	
1	3.53	3.56	3.15	3.08	3.15		3.12	26.72	26.77	25.40	
2	7.57	7.12	6.29	6.17	6.29		6.23	55.05	55.15	52.17	
3	10.61	10.69	9.44	9.25	9.44		9.36	87.76	87.95	82.53	
4	14.16	14.27	12.60	12.35	12.60		12.49	135.10	135.58	123.13	
5	17.72	17.87	15.77	15.45	15.77		15.63				
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2	
1	23.97	24.68	24.90		24.62				22.86	21.35	
2	49.37	50.61	51.08		50.48				46.70	43.48	
3	77.05	79.75	80.59		79.53				72.96	67.51	
4	112.30	117.49	119.15		117.04				104.88	95.61	
5										135.66	
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY	
1	21.35		23.46		28.65	30.40					
2	43.48		47.98		59.31	63.26					
3	67.51		75.17		95.83	103.75					
4	95.61		108.83								
5	135.66										
	KB7	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT	
1											
2											
3											
4											
5											
46 PD											
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1	
1	3.37	3.40	3.00	2.94	3.00		2.98	25.36	25.41	24.06	
2	6.74	6.80	6.00	5.88	6.00		5.96	52.09	52.19	49.26	
3	10.12	10.21	9.01	8.82	9.01		8.94	82.39	82.57	77.39	
4	13.51	13.62	12.02	11.77	12.02		11.93	122.84	123.23	112.93	
5	16.91	17.05	15.05	14.73	15.05		14.93				
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2	
1	22.66	23.40	23.61		23.29		21.97	22.02	21.58	20.20	
2	46.28	47.85	48.31		47.62		44.81	44.90	43.97	41.06	
3	72.23	74.93	75.74		74.54		69.75	69.90	68.32	63.48	
4	103.61	108.39	109.86		107.69		99.35	99.60	96.95	89.09	
5							144.71	145.38	138.74	122.52	
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY	
1	20.20		22.15		27.09	28.82					
2	41.06		45.19		55.87	59.71					
3	63.48		70.38		89.28	96.61					
4	89.39		100.42		139.07						
5	122.52		147.68								
	KB7	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT	
1											
2											
3											
4											
5											

47 AG		MICA CRYSTAL, D# 9.948 ANGSTRMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LBI
1	3.22	3.25	2.86	2.81	2.87		2.84	24.10	24.16	22.81
2	6.44	6.50	5.73	5.61	5.74		5.68	49.36	49.48	46.59
3	9.67	9.76	8.60	8.42	8.61		8.53	77.56	77.76	72.77
4	12.91	13.02	11.47	11.24	11.49		11.38	113.26	113.64	104.54
5	16.15	16.30	14.35	14.26	14.38		14.23			
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	21.45	22.22	22.43		22.07		20.88	20.91	20.40	19.13
2	43.71	45.33	45.79		45.01		42.49	42.57	41.48	38.82
3	67.88	70.61	71.40		70.09		65.85	65.98	64.17	59.80
4	96.23	100.82	102.16		99.92		92.90	93.10	90.19	83.31
5	137.05	148.84			146.26		129.91	130.32	124.59	112.37
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	19.13		20.94		25.66	27.37				
2	38.82		42.63		52.73	56.48				
3	59.80		66.08		83.54	90.43				
4	83.31		93.27		125.30	142.28				
5	112.37		130.66							
	KB0	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	LBI
1	3.08	3.10	2.74	2.68	2.74			22.94	22.99	21.66
2	6.17	6.21	5.47	5.36	5.49			46.86	46.98	44.14
3	9.25	9.32	8.21	8.04	8.23			73.24	73.43	68.61
4	12.35	12.44	10.96	10.73	10.98			105.37	105.72	97.44
5	15.45	15.57	13.71	13.42	13.74					139.90
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	20.35	21.11	21.33		20.93		19.85	19.90	19.30	18.15
2	41.37	42.99	43.45		42.60		40.34	40.42	39.19	36.77
3	63.99	66.68	67.45		66.04		62.29	62.43	60.40	56.48
4	89.90	94.25	95.51		93.20		87.19	87.42	84.24	78.23
5	124.04	132.70	135.43		130.52		119.08	119.48	113.93	104.11
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	18.14		19.83		24.33	26.03				
2	36.76		40.28		49.86	53.53				
3	56.46		62.19		78.43	84.99				
4	78.20		87.04		114.91	128.50				
5	104.06		118.80							
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

49 IN		MICA CRYSTAL, D# 9.948 ANGSTRCMS									
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LBI	
1	2.95	2.98	2.62	2.56	2.62		2.60	21.86	21.91	20.59	
2	5.90	5.96	5.24	5.13	5.24		5.20	44.56	44.68	41.88	
3	8.86	8.94	7.87	7.69	7.87		7.80	69.33	69.52	64.83	
4	11.82	11.93	10.50	10.27	10.50		10.40	98.64	98.96	91.24	
5	14.79	14.93	13.13	12.84	13.13		13.02	142.86	143.68	126.61	
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2	
1	19.32	20.09	20.30		19.89		18.91	18.94	18.29	17.23	
2	39.21	40.83	41.28		40.41		38.36	38.43	37.07	34.86	
3	60.44	63.10	63.85		62.41		59.04	59.16	56.95	53.40	
4	84.30	88.47	89.67		87.39		82.15	82.33	78.94	73.61	
5	114.04	121.39	123.61		119.42		110.42	110.73	105.24	96.99	
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY	
1	17.23	16.91	18.80		23.10	24.78					
2	34.86	34.21	38.12		47.20	50.82					
3	53.40	52.36	58.67		73.82	80.14					
4	73.61	72.57	81.57		106.41	118.24					
5	96.99	94.67	109.47								
	KB1	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	LBI	
1	2.83	2.85	2.51	2.45	2.51		2.49	20.85	20.90	19.59	
2	5.66	5.70	5.01	4.91	5.02		4.98	42.43	42.54	39.79	
3	8.49	8.56	7.52	7.37	7.54		7.47	65.75	65.94	61.38	
4	11.33	11.42	10.03	9.83	10.06		9.97	92.73	93.03	85.77	
5	14.18	14.29	12.55	12.29	12.58		12.47	129.57	130.18	116.57	
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2	
1	18.37	19.13	19.35		18.91	18.25	18.02	18.05	17.35	16.37	
2	37.22	38.82	39.27		38.37	36.98	36.50	36.57	35.12	33.09	
3	57.21	59.80	60.54		59.06	56.81	56.03	56.15	53.81	50.58	
4	79.33	83.31	84.46		82.18	78.74	77.55	77.73	74.22	69.44	
5	105.86	112.37	114.31		110.47	104.91	103.04	103.32	97.91	90.79	
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY	
1		16.05	17.84		21.96	23.61					
2		32.42	36.13		44.78	48.31					
3		49.51	55.44		69.68	75.74					
4		67.88	76.67		99.24	109.86					
5		88.51	101.66		144.43						
	KB1	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT	
1											
2											
3											
4											
5											

51 SB MICA CRYSTAL, D# 9.948 ANGSTRCMS										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	2.71	2.74	2.40	2.35	2.41		2.38	19.91	19.96	18.66
2	5.42	5.47	4.80	4.70	4.82		4.77	40.45	40.56	37.84
3	8.13	8.21	7.21	7.05	7.23		7.16	62.47	62.65	58.21
4	10.84	10.96	9.62	9.41	9.64		9.55	87.48	87.77	80.87
5	13.57	13.71	12.03	11.77	12.06		11.94	119.59	120.11	108.33
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	17.48	18.23	18.45		18.02	17.37	17.18	17.22	16.48	15.57
2	35.38	36.94	37.41		36.50	35.16	34.77	34.85	33.31	31.44
3	54.24	56.75	57.50		56.03	53.89	53.25	53.38	50.92	47.95
4	74.86	78.65	79.78		77.55	74.33	73.38	73.58	69.94	65.61
5	98.88	104.77	106.58		103.04	98.08	96.64	96.95	91.53	85.26
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	15.57	15.24	16.95		20.90	22.54				
2	31.44	30.77	34.28		42.53	46.01				
3	47.95	46.90	52.48		65.92	71.78				
4	65.61	64.09	72.24		93.00	102.83				
5	85.26	83.09	94.92		130.11					
	KB0	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	2.60	2.63	2.30	2.25	2.31			19.03	19.08	17.79
2	5.20	5.25	4.61	4.51	4.62			38.61	38.72	36.04
3	7.80	7.89	6.92	6.76	6.93			59.46	59.64	55.29
4	10.40	10.52	9.23	9.02	9.25			82.79	83.07	76.43
5	13.02	13.16	11.54	11.28	11.57			111.49	111.95	101.30
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	16.66	17.40	17.61		17.18	16.55	16.41	16.45	15.67	14.83
2	33.68	35.21	35.66		34.75	33.45	33.16	33.26	31.64	29.91
3	51.51	53.96	54.68		53.23	51.15	50.69	50.84	48.27	45.54
4	70.82	74.45	75.52		73.35	70.28	69.61	69.83	66.08	62.14
5	92.82	98.26	99.90		96.60	92.03	91.03	91.36	85.93	80.35
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	14.83	14.50	16.12		19.90	21.53				
2	29.91	29.24	32.58		40.44	43.88				
3	45.54	44.50	49.76		62.45	68.18				
4	62.14	60.64	68.24		87.45	96.71				
5	80.35	78.25	89.04		119.54	138.17				
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

[illegible]

55 CS		MICA CRYSTAL, D# 9.948 ANGSTRCMS								
ORDER	KAI	KA2	KBI	KB2	KB3	KB4	KB5	LA1	LA2	LBI
1	2.30	2.33	2.04	1.99	2.04			16.72	16.77	15.50
2	4.61	4.67	4.08	3.99	4.09			33.80	33.92	31.29
3	6.92	7.03	6.12	5.98	6.14			51.71	51.90	47.73
4	9.23	9.34	8.16	7.98	8.19			71.10	71.38	65.29
5	11.54	11.68	10.21	9.98	10.24			93.23	93.65	84.79
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	14.50	15.18	15.40		14.98	14.35	14.31	14.39	13.55	12.91
2	29.24	31.64	31.09		30.22	28.93	28.85	29.01	27.30	25.99
3	44.50	46.69	47.41		46.03	44.01	43.88	44.14	41.47	39.43
4	60.64	63.79	64.82		62.84	59.95	59.76	60.13	56.34	53.45
5	78.25	82.67	84.13		81.33	77.29	77.03	77.55	72.32	68.41
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	12.89	12.55	13.96		17.30	18.90				
2	25.94	25.25	28.12		35.02	38.34				
3	39.35	38.27	42.75		53.65	59.02				
4	53.35	51.83	58.15		73.99	82.11				
5	68.27	66.23	74.80		97.56	110.37				
	KBD	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										
56 BA										
ORDER	KAI	KA2	KBI	KB2	KB3	KB4	KB5	LA1	LA2	LBI
1	2.22	2.25	1.96	1.92	1.96		1.95	16.03	16.09	14.83
2	4.44	4.49	3.93	3.84	3.93		3.89	32.40	32.52	29.91
3	6.66	6.74	5.89	5.76	5.89		5.84	49.47	49.66	45.54
4	8.88	8.99	7.86	7.68	7.86		7.79	67.82	68.10	62.14
5	11.10	11.25	9.83	9.60	9.83		9.75	88.43	88.84	80.35
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	13.88	14.53	14.76		14.33		13.72	13.78	12.93	12.34
2	27.97	29.30	29.76		28.90		27.64	27.77	26.04	24.82
3	42.51	44.59	45.32		43.96		41.99	42.19	39.50	37.61
4	57.80	60.77	61.82		59.87		57.07	57.36	53.56	50.91
5	74.33	78.44	79.90		77.18		73.33	73.72	68.55	65.00
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	12.31	11.97	13.32		16.54	18.13				
2	24.77	24.08	26.83		33.44	36.74				
3	37.54	36.47	40.73		51.13	56.42				
4	50.81	49.31	55.29		70.25	78.14				
5	64.86	62.66	70.90		91.98	103.97				
	KBD	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

57 LA		MICA CRYSTAL, D# 9.948 ANGSTROMS									
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1	
1	2.14	2.16	1.89	1.84	1.89		1.88	15.40	15.45	14.19	
2	4.27	4.32	3.78	3.69	3.79		3.76	31.08	31.19	28.61	
3	6.41	6.48	5.67	5.53	5.69		5.64	47.39	47.56	43.51	
4	8.56	8.65	7.56	7.38	7.59		7.52	64.79	65.04	59.23	
5	10.70	10.82	9.46	9.23	9.49		9.40	84.09	84.44	76.30	
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2	
1	13.29	13.91	14.14		13.73	13.13	13.17	13.22	12.36	11.80	
2	26.77	28.04	28.50		27.67	26.44	26.52	26.62	24.87	23.74	
3	40.64	42.62	43.34		42.04	40.12	40.25	40.40	37.69	35.94	
4	55.16	57.96	58.99		57.15	54.44	54.62	54.83	51.02	48.58	
5	70.73	74.55	75.97		73.43	69.74	69.99	70.27	65.14	61.88	
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY	
1	11.78	11.44	12.73		15.83	17.38					
2	23.68	23.00	25.61		31.98	35.18					
3	35.85	34.80	38.84		48.81	53.91					
4	48.45	46.99	52.63		66.85	74.36					
5	61.72	59.78	67.30		87.04	98.13					
	KB7	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	2.06	2.09	1.82	1.77	1.82			14.79	14.84	13.60	
2	4.11	4.17	3.64	3.55	3.64			29.84	29.94	27.40	
3	6.17	6.26	5.46	5.32	5.46			45.43	45.60	41.62	
4	8.23	8.35	7.28	7.10	7.28			61.98	62.22	56.54	
5	10.29	10.44	9.11	8.88	9.11			80.12	80.46	72.61	
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2	
1	12.75	13.34	13.56		13.17	12.58	12.63	12.67	11.82	11.31	
2	25.66	26.87	27.32		26.51	25.32	25.41	25.49	23.76	22.73	
3	38.91	40.79	41.49		40.23	38.38	38.53	38.66	35.97	34.38	
4	52.73	55.37	56.36		54.59	51.99	52.19	52.37	48.63	46.41	
5	67.44	71.01	72.36		69.95	66.44	66.71	66.96	61.95	59.02	
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY	
1	11.28	10.95	12.18		15.13	16.72					
2	22.67	22.01	24.49		30.54	33.80					
3	34.29	33.28	37.10		46.54	51.71					
4	46.29	44.89	50.20		63.57	71.10					
5	58.85	57.01	64.05		82.36	93.23					
	KB7	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT	
1											
2											
3											
4											
5											

59 PR		MICA CRYSTAL, D# 9.948 ANGSTRMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	1.98	2.01	1.75	1.71	1.76			14.22	14.28	13.03
2	3.96	4.02	3.50	3.42	3.51			28.67	28.79	26.24
3	5.95	6.03	5.25	5.13	5.27			43.60	43.79	39.81
4	7.93	8.05	7.91	6.85	7.03			59.36	59.63	54.00
5	9.92	10.06	8.76	8.56	8.79			76.48	76.85	69.15
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	12.23	12.80	13.02		12.64	12.07	12.12	12.16	11.31	10.84
2	24.60	25.75	26.20		25.44	24.27	24.37	24.46	22.74	21.78
3	37.27	39.06	39.76		38.56	36.76	36.92	37.05	34.40	32.92
4	50.43	52.94	53.92		52.24	49.72	49.95	50.12	46.44	44.39
5	64.35	67.72	69.04		66.78	63.40	63.71	63.94	59.05	56.36
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	10.81	10.49	11.65		14.51	16.09				
2	21.72	21.07	23.43		29.25	32.50				
3	32.83	31.84	35.47		44.51	49.64				
4	44.27	42.90	47.92		60.67	68.07				
5	56.19	54.40	61.01		78.29	88.80				
	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	1.94	1.69	1.65	1.69			13.68	13.74	12.51
2	3.83	3.87	3.38	3.29	3.39			27.57	27.68	25.16
3	5.74	5.81	5.06	4.94	5.08			41.88	42.06	38.14
4	7.65	7.75	6.75	6.59	6.78			56.91	57.17	51.66
5	9.57	9.69	8.45	8.24	8.47			73.11	73.47	65.99
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	11.75	12.27	12.51		12.14	11.59	11.63	11.67	10.33	10.39
2	23.62	24.68	25.16		24.42	23.30	23.38	23.47	21.76	20.86
3	35.76	37.39	38.14		36.99	35.27	35.39	35.52	32.90	31.51
4	48.33	50.61	51.66		50.05	47.64	47.82	48.00	44.37	42.46
5	61.55	64.59	65.99		63.84	60.65	60.88	61.11	56.32	53.82
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	10.36	10.06	11.16	10.70	13.91	15.46				
2	20.80	20.19	22.43	21.49	28.03	31.21				
3	31.42	30.49	33.93	32.49	42.00	47.59				
4	42.33	41.05	45.79	43.79	57.94	65.09				
5	53.66	51.99	58.19	55.57	74.52	84.52				
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

[illegible]

63 EU MICA CRYSTAL, D# 9.948 ANGSTRCMS										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	1.72	1.75	1.52	1.48	1.52			12.24	12.30	11.08
2	3.44	3.49	3.04	2.96	3.04			24.62	24.75	22.26
3	5.17	5.24	4.56	4.44	4.56			37.30	37.50	33.66
4	6.89	6.98	6.08	5.92	6.08			50.48	50.75	45.41
5	8.62	8.73	7.61	7.41	7.61			64.42	64.79	57.70
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	10.45	10.88	11.11		10.81	10.31	10.34	10.38	9.56	9.21
2	20.97	21.87	22.33		21.72	20.71	20.76	20.85	19.19	18.48
3	31.71	33.06	33.77		32.83	31.28	31.35	31.50	28.96	27.87
4	42.73	44.59	45.56		44.27	42.14	42.23	42.43	38.94	37.46
5	54.13	56.62	57.90		56.19	53.40	53.53	53.79	49.25	47.32
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	9.17	8.90	9.85		12.30	13.83	66.81			
2	18.41	17.86	19.77		24.74	27.86				
3	27.76	26.93	29.85		37.49	42.34				
4	37.31	36.17	40.17		50.74	57.57				
5	47.14	45.66	50.84		64.75	74.61				
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										
64 GD										
ORDER	KA	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	1.56	1.69	1.46	1.43	1.47			11.80	11.37	10.65
2	3.32	3.38	2.93	2.86	2.94			23.74	23.37	21.39
3	4.78	5.06	4.39	4.29	4.41			35.94	36.14	32.32
4	6.54	6.75	5.85	5.72	5.88			48.58	48.86	43.57
5	8.30	8.45	7.32	7.15	7.35			61.88	62.25	55.28
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	10.06	10.47	10.69		10.42	9.94	9.94	9.98	9.18	8.84
2	20.21	21.02	21.47		20.93	19.95	19.96	20.04	18.42	17.74
3	30.51	31.77	32.45		31.62	30.12	30.13	30.26	27.78	26.75
4	41.08	42.80	43.74		42.60	40.53	40.56	40.73	37.33	35.93
5	52.02	54.27	55.51		54.02	51.32	51.35	51.57	47.17	45.35
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	8.82	8.56	9.46		11.32	13.35				
2	17.68	17.17	18.99		23.77	26.88				
3	26.66	25.88	28.65		35.99	40.80				
4	35.81	34.74	38.53		48.65	55.40				
5	45.19	43.83	48.71		61.99	71.04				
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

67 HO MICA CRYSTAL, DW 9.948 ANGSTRCMS										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	1.50	1.53	1.32	1.29				10.64	10.71	9.50
2	3.01	3.06	2.65	2.58				21.38	21.51	19.06
3	4.51	4.60	3.97	3.87				32.31	32.50	28.76
4	6.02	6.13	5.30	5.16				43.55	43.82	38.67
5	7.52	7.67	6.63	6.45				55.25	55.61	48.90
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	9.03	9.33	9.57		9.35			8.93	8.17	7.90
2	18.13	18.73	19.20		18.77			17.92	16.38	15.83
3	27.33	28.26	28.97		28.31			27.01	24.57	23.84
4	36.73	37.99	38.97		38.06			36.29	33.10	31.98
5	46.38	48.02	49.28		48.11			45.82	41.72	40.28
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	7.86	7.62	8.43		10.53	12.04				
2	15.76	15.27	16.90		21.15	24.21				
3	23.74	23.00	25.47		31.96	36.67				
4	31.83	30.83	34.19		43.07	49.59				
5	40.09	38.81	43.11		54.63	63.23				
	KBD	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										
68 EK										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	1.45	1.48	1.28	1.25	1.28			10.29	10.36	9.15
2	2.90	2.96	2.57	2.50	2.57			20.66	20.80	18.36
3	4.36	4.44	3.85	3.75	3.85			31.21	31.42	27.69
4	5.81	5.92	5.14	5.00	5.14			42.04	42.33	37.21
5	7.26	7.41	6.43	6.25	6.43			53.27	53.66	47.01
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	8.73	9.00	9.23		9.03	8.61	8.56	8.61	7.86	7.61
2	17.51	18.06	18.52		18.13	17.27	17.17	17.27	15.76	15.26
3	26.39	27.23	27.94		27.33	26.04	25.88	26.04	23.74	22.98
4	35.44	36.58	37.55		36.73	34.96	34.74	34.96	31.83	30.80
5	44.73	46.19	47.45		46.38	44.10	43.83	44.10	40.69	38.78
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	7.58	7.35	8.10		10.13	11.65				
2	15.19	14.74	16.25		20.33	23.42				
3	22.87	22.19	24.48		30.71	35.45				
4	30.66	29.73	32.84		41.35	47.90				
5	38.59	37.41	41.38		52.37	60.98				
	KBD	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

69 TM		MICA CRYSTAL, D# 9.948 ÅNGSTRÖMS									
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1	
1	1.41	1.43	1.24	1.21	1.24			9.95	10.02	8.82	
2	2.81	2.87	2.48	2.42	2.49			19.98	20.11	17.69	
3	4.22	4.30	3.72	3.63	3.73			30.17	30.37	26.68	
4	5.62	5.74	4.95	4.84	4.98			40.61	40.88	35.83	
5	7.03	7.18	6.19	6.05	6.22			51.41	51.76	45.23	
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2	
1	8.43	8.68	8.90		8.73			8.31	7.58	7.34	
2	16.91	17.40	17.86		17.52			16.66	15.19	14.72	
3	25.49	26.23	26.93		26.41			25.10	22.87	22.15	
4	34.21	35.22	36.17		35.47			33.68	30.66	29.68	
5	43.14	44.45	45.66		44.76			42.46	38.59	37.35	
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY	
1	7.31	7.08	7.81	7.44	9.78	11.28	50.33	50.33			
2	14.65	14.19	15.66	14.90	19.63	22.67	116.52	116.52			
3	22.04	21.36	23.58	22.43	29.63	34.29					
4	29.54	28.61	31.62	30.06	39.87	46.29					
5	37.16	35.98	39.82	37.83	50.46	58.85					
	KB1	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT	
1											
2											
3											
4											
5											
70 YB											
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1	
1	1.37	1.39	1.20	1.17	1.20			9.64	9.70	8.51	
2	2.73	2.78	2.41	2.35	2.41			19.35	19.48	17.07	
3	4.10	4.17	3.61	3.53	3.61			29.20	29.40	25.72	
4	5.46	5.55	4.82	4.70	4.82			39.28	39.55	34.52	
5	6.83	6.94	6.02	5.88	6.02			49.69	50.04	43.55	
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2	
1	8.16	8.37	8.60	7.99	8.45	8.04	7.98	8.02	7.31	7.08	
2	16.35	16.79	17.24	16.03	16.95	16.12	15.99	16.08	14.65	14.19	
3	24.64	25.29	25.98	24.14	25.54	24.29	24.09	24.21	22.04	21.36	
4	33.06	33.95	34.89	32.38	34.28	32.58	32.31	32.48	29.54	28.61	
5	41.66	42.80	44.01	40.80	43.24	41.04	40.71	40.92	37.16	35.98	
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY	
1	7.04	6.83	7.53	7.16	9.43	10.93	48.29	48.39			
2	14.11	13.68	15.09	14.36	18.93	21.95	109.78	110.10			
3	21.24	20.59	22.71	21.61	28.56	33.19					
4	28.44	27.57	30.44	28.94	38.41	44.76					
5	35.77	34.65	38.32	36.40	48.55	56.85					
	KB1	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT	
1											
2											
3											
4											
5											

71 LU MICA CRYSTAL, D# 9.948 ANGSTRCMS										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	1.32	1.35	1.16	1.13	1.17			9.33	9.40	8.21
2	2.64	2.70	2.33	2.27	2.34			18.73	18.86	16.46
3	3.96	4.04	3.49	3.40	3.51			28.26	28.46	24.80
4	5.28	5.39	4.65	4.54	4.68			37.99	38.26	33.27
5	6.60	6.74	5.82	5.68	5.85			48.02	48.36	41.94
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	7.90	8.08	8.30	7.74	8.18	7.78	7.70	7.74	7.04	6.83
2	15.83	16.19	16.65	15.51	16.40	15.59	15.44	15.52	14.11	13.68
3	23.84	24.39	25.08	23.35	24.71	23.47	23.24	23.37	21.24	20.59
4	31.98	32.72	33.66	31.31	33.15	31.47	31.16	31.33	28.44	27.57
5	40.28	41.23	42.43	39.42	41.78	39.63	39.24	39.45	35.77	34.65
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	6.79	6.59	7.26	6.90	8.52	10.59	46.41			
2	13.61	13.20	14.55	13.83	17.59	21.27	104.02			
3	20.48	19.85	21.90	20.81	25.75	32.14				
4	27.42	26.57	29.35	27.87	34.57	43.32				
5	34.47	33.39	36.92	35.04	43.61	54.95				
	KB0	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	1.28	1.31	1.13	1.10	1.13			9.05	9.11	7.92
2	2.56	2.62	2.26	2.20	2.26			18.15	18.28	15.88
3	3.84	3.92	3.39	3.30	3.39			27.37	27.57	23.91
4	5.12	5.23	4.52	4.40	4.52			36.77	37.04	32.07
5	6.40	6.54	5.65	5.50	5.65			46.44	46.79	40.40
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	7.64	7.80	8.02	7.48	7.92	7.53	7.44	7.48	6.79	6.59
2	15.32	15.63	16.09	14.99	15.88	15.69	14.90	14.99	13.61	13.21
3	23.07	23.54	24.23	22.57	23.91	22.71	22.43	22.57	20.48	19.87
4	30.92	31.57	32.50	30.25	32.07	30.44	30.06	30.25	27.42	26.59
5	38.93	39.76	40.95	38.08	40.40	38.32	37.83	38.08	34.47	33.42
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	6.56	6.36	7.00	6.66	8.78	10.27	44.53	44.56		
2	13.14	12.73	14.03	13.33	17.61	20.63	98.55	98.67		
3	19.76	19.15	21.11	20.06	26.55	31.16				
4	26.45	25.62	28.28	26.85	35.66	41.96				
5	33.24	32.19	35.56	33.75	45.01	53.18				
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

75	RE	MICA CRYSTAL, D# 9.948 ANGSTRMS									
	ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
	1	1.17	1.20	1.03	1.00	1.03			8.26	8.32	7.14
	2	2.34	2.40	2.06	2.00	2.06			16.56	16.69	14.31
	3	3.51	3.59	3.09	3.01	3.09			24.96	25.15	21.53
	4	4.68	4.79	4.12	4.01	4.12			33.49	33.75	28.85
	5	5.85	5.99	5.16	5.01	5.16			42.22	42.56	36.28
		LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
	1	6.96	7.03	7.26	6.78	7.21	6.83	6.71	6.75	6.11	5.95
	2	13.94	14.09	14.54	13.59	14.45	13.69	13.45	13.53	12.25	11.91
	3	20.97	21.20	21.89	20.45	21.75	20.60	20.23	20.36	18.41	17.90
	4	28.09	28.40	29.32	27.38	29.13	27.59	27.09	27.26	24.63	23.95
	5	35.32	35.71	36.89	34.41	36.65	34.68	34.05	34.26	30.93	30.06
		LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
	1	5.91	5.72	6.30	5.98	7.91	9.40	38.31			
	2	11.84	11.45	12.63	11.97	15.87	18.86	82.02			
	3	17.80	17.20	18.99	17.99	23.90	28.46				
	4	23.81	23.01	25.41	24.07	32.05	38.26				
	5	29.88	28.87	31.92	30.21	40.37	48.36				
		KB0	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			8.02	8.08	6.90
	2	2.27	2.33	2.00	1.95	2.00			16.08	16.20	13.82
	3	3.40	3.49	3.01	2.92	3.01			24.21	24.41	20.80
	4	4.54	4.65	4.01	3.89	4.01			32.48	32.74	27.85
	5	5.68	5.82	5.01	4.87	5.01			40.92	41.26	35.01
		LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
	1	6.74	6.80	7.02	6.57	6.99	6.62	6.49	6.53	5.91	5.75
	2	13.51	13.62	14.07	13.16	14.01	13.27	13.00	13.08	11.83	11.52
	3	20.32	20.50	21.17	19.80	21.08	19.95	19.55	19.67	17.78	17.31
	4	27.21	27.45	28.35	26.50	28.23	26.71	26.17	26.33	23.78	23.15
	5	34.20	34.50	35.65	33.30	35.50	33.57	32.88	33.09	29.85	29.05
		LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
	1	5.72	5.53	6.09	5.77	7.65	9.14	38.08	38.08		
	2	11.45	11.06	12.20	11.55	15.34	18.34	81.44	81.44		
	3	17.20	16.63	18.34	17.36	23.10	27.65				
	4	23.01	22.23	24.54	23.22	30.97	37.16				
	5	28.87	27.89	30.81	29.14	38.99	46.95				
		KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
	1										
	2										
	3										
	4										
	5										

79	AU	MICA CRYSTAL, DH 9.948 ANGSTROMS									
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1	
1	1.04	1.07	0.92	0.89	0.92	0.89	0.91	7.35	7.42	6.25	
2	2.07	2.13	1.83	1.79	1.84	1.77	1.82	14.74	14.83	12.51	
3	3.1	3.20	2.75	2.68	2.76	2.66	2.73	22.19	22.40	18.81	
4	4.15	4.26	3.66	3.57	3.69	3.55	3.64	29.73	30.02	25.18	
5	5.19	5.33	4.58	4.46	4.61	4.44	4.55	37.41	37.77	31.62	
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2	
1	6.17	6.15	6.38	5.99	6.40	6.05	5.88	5.92	5.34	5.21	
2	12.35	12.33	12.78	12.00	12.82	12.12	11.78	11.86	10.69	10.43	
3	18.57	18.53	19.22	18.04	19.29	18.22	17.71	17.83	16.07	15.67	
4	24.84	24.80	25.72	24.14	25.81	24.37	23.69	23.86	21.48	20.94	
5	31.23	31.14	32.31	30.30	32.43	30.60	29.73	29.94	26.94	26.26	
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY	
1	5.17		5.51	5.20	6.93	8.42	34.14	34.22			
2	10.36		11.03	10.42	13.89	16.88	71.90	72.10			
3	15.56		16.58	15.65	20.90	25.44	123.42	123.94			
4	20.80		22.16	20.92	27.99	34.14					
5	26.08		27.80	26.23	35.19	43.05					
	KBC	LB15	LB17	LBP7	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	1.01	1.04	0.89	0.86	0.89			7.15	7.22	6.04	
2	2.02	2.07	1.77	1.73	1.79			14.33	14.47	12.11	
3	3.02	3.11	2.66	2.59	2.68			21.57	21.78	18.20	
4	4.03	4.15	3.55	3.46	3.57			28.90	29.18	24.35	
5	5.04	5.19	4.44	4.32	4.46			36.34	36.71	30.57	
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2	
1	5.99	5.96	6.18	5.82	6.22	5.87	5.68	5.74	5.17	5.04	
2	12.00	11.93	12.37	11.65	12.47	11.76	11.38	11.49	10.35	10.09	
3	18.04	17.94	18.60	17.52	18.74	17.68	17.10	17.27	15.55	15.16	
4	24.14	24.00	24.89	23.43	25.08	23.64	22.87	23.10	20.78	20.26	
5	30.30	30.12	31.26	29.41	31.50	29.68	28.69	28.99	26.06	25.41	
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	ME	MY	
1	5.01	4.83	5.32	5.03	6.71	8.20	33.09	33.09			
2	10.02	9.68	10.66	10.07	13.44	16.44	69.44	69.44			
3	15.06	14.54	16.02	15.13	20.22	24.76	117.37	117.37			
4	20.12	19.42	21.41	20.22	27.07	33.22					
5	25.23	24.34	26.85	25.35	34.02	41.88					
	KBJ	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT	
1											
2											
3											
4											
5											

81 TL

MICA CRYSTAL. D# 9.948 ANGSTROMS

ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	0.98	1.01	0.86	0.84	0.87			6.96	7.03	5.85
2	1.96	2.02	1.73	1.68	1.74			13.94	14.08	11.71
3	2.94	3.02	2.59	2.52	2.61			20.97	21.18	17.61
4	3.92	4.03	3.46	3.36	3.48			28.09	28.37	23.55
5	4.90	5.04	4.32	4.21	4.35			35.32	35.68	29.56
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	5.82	5.77	5.99	5.65	6.05	5.70	5.51	5.55	5.00	4.89
2	11.65	11.55	11.99	11.32	12.12	11.42	11.04	11.12	10.01	9.78
3	17.52	17.36	18.03	17.01	18.22	17.17	16.59	16.72	15.04	14.69
4	23.43	23.22	24.11	22.75	24.37	22.96	22.19	22.35	20.10	19.63
5	29.41	29.14	30.27	28.54	30.60	28.81	27.83	28.04	25.20	24.61
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	4.85	4.68	5.16	4.86	6.50	7.98	31.86	31.93		
2	9.70	9.36	10.32	9.73	13.02	16.01	66.59	66.74		
3	14.57	14.07	15.51	14.62	19.59	24.11	110.86	111.20		
4	19.47	18.79	20.73	19.54	26.22	32.34				
5	24.40	23.55	26.00	24.49	32.94	40.74				
	KB1	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

82 PB

ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	0.95	0.98	0.84	0.82	0.85	0.81	0.84	6.77	6.83	5.66
2	1.90	1.96	1.68	1.64	1.69	1.62	1.67	13.57	13.69	11.33
3	2.85	2.94	2.52	2.45	2.54	2.44	2.51	20.41	20.60	17.03
4	3.80	3.92	3.36	3.27	3.39	3.25	3.34	27.32	27.59	22.77
5	4.75	4.90	4.21	4.09	4.23	4.06	4.18	34.35	34.68	28.57
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	5.66	5.58	5.80	5.49	5.88	5.54	5.34	5.38	4.84	4.73
2	11.34	11.18	11.62	10.99	11.78	11.10	10.69	10.77	9.69	9.47
3	17.35	16.80	17.47	16.52	17.71	16.68	16.07	16.19	14.55	14.22
4	22.80	22.47	23.36	22.09	23.69	22.30	21.48	21.65	19.45	19.00
5	28.60	28.19	29.32	27.71	29.73	27.98	26.94	27.15	24.37	23.81
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	4.70	4.53	4.99	4.71	6.29	7.78	30.81	30.89		
2	9.40	9.06	9.99	9.42	12.60	15.60	64.18	64.37		
3	14.12	13.61	15.01	14.15	18.95	23.49	105.67	106.07		
4	18.86	18.18	20.05	18.91	25.36	31.50				
5	23.64	22.78	25.14	23.70	31.86	39.66				
	KB1	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

83 B1		MICA CRYSTAL, D# 9.948 ANGSTRCMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	0.93	0.96	0.82	0.79	0.82			6.59	6.66	5.49
2	1.85	1.91	1.64	1.59	1.65			13.21	13.33	10.98
3	2.78	2.87	2.45	2.38	2.47			19.87	20.06	16.51
4	3.71	3.83	3.27	3.18	3.29			26.59	26.85	22.07
5	4.64	4.78	4.09	3.97	4.12			33.42	33.75	27.68
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	5.50	5.41	5.63	5.34	5.72	5.39	5.17	5.21	4.68	4.59
2	11.02	10.83	11.27	10.68	11.46	10.79	10.36	10.44	9.38	9.18
3	16.56	16.28	16.94	16.05	17.22	16.21	15.56	15.69	14.08	13.79
4	22.14	21.76	22.66	21.46	23.03	21.67	20.80	20.97	18.81	18.42
5	27.77	27.30	28.43	26.91	28.90	27.18	26.08	26.29	23.58	23.08
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	4.55	4.38	4.83	4.55	6.10	7.59	29.81	29.88		
2	9.10	8.77	9.68	9.11	12.22	15.20	61.92	62.07		
3	13.67	13.18	14.54	13.68	18.38	22.89	101.02	101.32		
4	18.25	17.60	19.42	18.28	24.59	30.68				
5	22.37	22.05	24.34	22.90	30.87	38.62				
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										
84 PD										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	0.90	0.93	0.79	0.77				6.42	6.49	5.31
2	1.80	1.85	1.59	1.54				12.86	13.00	10.64
3	2.70	2.78	2.38	2.32				19.34	19.55	15.98
4	3.59	3.71	3.18	3.09				25.88	26.17	21.36
5	4.49	4.64	3.97	3.86				32.52	32.88	26.79
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	5.35	5.24	5.46	5.18	5.57				4.53	
2	10.72	10.49	10.93	10.37	11.16				9.07	
3	16.10	15.76	16.42	15.58	16.77				13.63	
4	21.53	21.06	21.95	20.83	22.42				18.21	
5	27.00	26.41	27.54	26.11	28.13				22.81	
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	4.40			4.40						
2	8.81			8.81						
3	13.23			13.23						
4	17.67			17.67						
5	22.14			22.14						
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

87 FR MICA CRYSTAL, D# 9.948 ANGSTRCMS										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	0.83	0.86	0.73	0.71				5.93	6.00	4.84
2	1.66	1.72	1.46	1.43				11.89	12.02	9.69
3	2.49	2.57	2.19	2.14				17.87	18.08	14.55
4	3.32	3.43	2.93	2.86				23.90	24.18	19.45
5	4.15	4.29	3.66	3.57				30.00	30.36	24.37
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	4.94								4.42	
2	9.00								8.25	
3	14.57								12.40	
4	19.47								16.55	
5	24.90								20.73	
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1										
2										
3										
4										
5										
	KB7	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	0.81	0.84	0.71	0.69				5.79	5.85	4.69
2	1.61	1.67	1.43	1.38				11.60	11.72	9.39
3	2.42	2.51	2.14	2.07				17.42	17.62	14.10
4	3.23	3.34	2.86	2.76				23.31	23.57	18.84
5	4.03	4.18	3.57	3.46				29.26	29.59	23.61
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	4.81	4.63	4.85	4.64	5.02	4.70	4.43	4.46	4.00	3.93
2	9.63	9.26	9.70	9.29	10.05	9.41	8.87	8.94	8.01	7.86
3	14.47	13.91	14.57	13.96	15.09	14.14	13.32	13.42	12.03	11.80
4	19.33	18.58	19.47	18.65	20.17	18.88	17.79	17.93	16.06	15.76
5	24.23	23.28	24.40	23.37	25.29	23.67	22.29	22.46	20.12	19.74
	LY3	LY4	LY5	LY6	LY	LL	MA1	MA2	MB	MY
1	3.89	3.74	4.13	3.88	5.23	6.73				
2	7.78	7.48	8.27	7.76	10.46	13.47				
3	11.68	11.23	12.41	11.65	15.72	20.27				
4	15.60	14.99	16.58	15.55	21.01	27.14				
5	19.53	18.77	20.76	19.47	26.35	34.11				
	LB7	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

[illegible]

91	PA	MICA CRYSTAL, D# 9.948 ANGSTROMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	0.74	0.77	0.66	0.64				5.38	5.44	4.27
2	1.49	1.54	1.31	1.28				10.76	10.90	8.56
3	2.23	2.32	1.97	1.92				16.17	16.38	12.85
4	2.97	3.09	2.63	2.56				21.62	21.90	17.16
5	3.72	3.86	3.28	3.20				27.12	27.48	21.49
1	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
2	4.46	4.22	4.44	4.29	4.65	4.35	4.04	4.08	3.65	3.59
3	8.92	8.44	8.88	8.59	9.32	8.71	8.08	8.16	7.31	7.19
4	13.40	12.67	13.33	12.90	14.00	13.07	12.13	12.26	10.97	10.80
5	17.90	16.93	17.81	17.23	18.70	17.46	16.20	16.37	14.65	14.41
5	22.43	21.20	22.31	21.58	23.43	21.87	20.29	20.50	18.34	18.04
1	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
2	3.55	3.42	3.77	3.53	4.78	6.29	23.33	23.40		
3	7.11	6.85	7.55	7.07	9.56	12.59	47.69	47.86		
4	10.68	10.28	11.34	10.61	14.36	18.94	74.67	74.95		
5	14.25	13.72	15.13	14.16	19.19	25.34	107.92	108.43		
5	17.84	17.17	18.95	17.72	24.05	31.83				
1	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
2										
3										
4										
5										
92	U									
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	0.73	0.75	0.64	0.63	0.65			5.25	5.31	4.15
2	1.45	1.51	1.28	1.26	1.29			10.51	10.64	8.30
3	2.18	2.26	1.92	1.88	1.94			15.79	15.98	12.47
4	2.90	3.02	2.56	2.51	2.58			21.11	21.36	16.65
5	3.63	3.77	3.20	3.14	3.23			26.47	26.79	20.85
1	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
2	4.35	4.09	4.31	4.18	4.54	4.24	3.92	3.96	3.54	3.49
3	8.71	8.19	8.62	8.37	9.09	8.49	7.85	7.92	7.09	6.97
4	13.07	12.29	12.95	12.57	13.65	12.74	11.79	11.89	10.64	10.47
5	17.46	16.41	17.30	16.79	18.23	17.02	15.74	15.88	14.20	13.97
5	21.87	20.56	21.67	21.02	22.64	21.32	19.71	19.88	17.78	17.49
1	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
2	3.44		3.66	3.43	4.64	6.15	22.67	22.75		
3	6.89		7.32	6.86	9.28	12.31	46.29	46.46		
4	10.35		10.99	10.29	13.94	18.52	72.25	72.55		
5	13.81		14.67	13.74	18.63	24.77	103.64	104.17		
5	17.29		18.37	17.20	23.34	31.11				
1	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
2										
3										
4										
5										

95 AM MICA CRYSTAL, D# 9.948 ANGSTRCMS										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	0.67	0.70	0.59	0.58				4.89	4.95	3.79
2	1.35	1.41	1.19	1.15				9.78	9.92	7.59
3	2.02	2.11	1.78	1.73				14.69	14.90	11.39
4	2.70	2.81	2.37	2.30				19.63	19.91	15.20
5	3.37	3.51	2.97	2.88				24.61	24.96	19.04
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	4.04								3.24	
2	8.08								6.48	
3	12.13								9.72	
4	16.20								12.96	
5	20.29								16.24	
	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	0.66	0.69	0.58	0.56				4.78	4.85	3.68
2	1.31	1.37	1.16	1.13				9.56	9.70	7.37
3	1.97	2.06	1.75	1.69				14.36	14.57	11.06
4	2.63	2.74	2.33	2.26				19.19	19.47	14.76
5	3.28	3.43	2.91	2.82				24.05	24.40	18.48
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	3.95								3.15	
2	7.90								6.29	
3	11.86								9.44	
4	15.83								12.60	
5	19.83								15.77	
	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										

[illegible]

TABLE 2
GONIOMETER ANGLES ARRANGED BY ANGLE MAGNITUDE

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WAS INTENTIONALLY
LEFT BLANK**

MICA CRYSTAL, D# 9.94E ANGSTROMS						0.54 TO 0.78					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
0.54	98 CF	KB2	I	0.093	I	0.67	95 AM	KA1	I	0.117	I
0.55	97 BK	KB2	I	0.095	I	0.67	90 TH	KB1	I	0.117	1,2,3
0.56	98 CF	KB1	I	0.097	I	0.68	90 TH	KB3	I	0.118	1,2
0.56	97 BK	KB1	I	0.098	I	0.68	96 CM	KA2	I	0.119	I
0.56	96 CM	KB2	I	0.098	I	0.69	88 RA	KB2	I	0.120	I
0.58	95 AM	KB2	I	0.100	I	0.69	94 PU	KA1	I	0.120	I
0.58	96 CM	KB1	I	0.101	I	0.70	89 AC	KB1	I	0.121	I
0.59	95 AM	KB1	I	0.103	I	0.70	95 AM	KA2	I	0.122	I
0.59	94 PU	KB2	I	0.103	I	0.71	93 NP	KA1	I	0.123	I
0.60	93 NP	KB2	I	0.105	I	0.71	87 FR	KB2	I	0.124	I
0.61	94 PU	KB1	I	0.106	I	0.71	88 RA	KB1	I	0.124	I
0.62	98 CF	KA1	I	0.108	I	0.72	94 PU	KA2	I	0.125	I
0.63	93 NP	KB1	I	0.109	I	0.73	92 U	KA1	I	0.126	1,2,3
0.63	92 U	KB2	I	0.109	1,2,3	0.73	87 FR	KB1	I	0.127	I
0.64	92 U	KB1	I	0.111	1,2,3	0.73	86 RN	KB2	I	0.127	I
0.64	97 BK	KA1	I	0.11	I	0.74	93 NP	KA2	I	0.128	I
0.64	91 PA	KB2	I	0.111	I	0.74	91 PA	KA1	I	0.129	I
0.64	92 U	KB3	I	0.112	1,2	0.75	92 U	KA2	I	0.131	1,2,3
0.65	98 CF	KA2	I	0.113	I	0.75	85 AT	KB2	I	0.131	I
0.66	96 CM	KA1	I	0.114	I	0.75	86 RN	KB1	I	0.131	I
0.66	90 TH	KB2	I	0.114	1,3	0.77	90 TH	KA1	I	0.133	1,2,3
0.66	91 PA	KB1	I	0.114	I	0.77	84 PC	KB2	I	0.134	I
0.67	97 BK	KA2	I	0.116	I	0.77	91 PA	KA2	I	0.134	I
0.67	90 TH	KB5	I	0.116	1,2	0.77	85 AT	KB1	I	0.134	I
0.67	89 AC	KB2	I	0.117	I	0.78	89 AC	KA1	I	0.136	I

MICA CRYSTAL, D# 9.94E ANGSTROMS							0.79 TO 1.00						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
0.79	83 BI	KB2	I	0.138	1,3		0.89	80 HG	KB3	I	0.155	I	
0.79	84 PO	KB1	I	0.138	I		0.90	84 PC	KA1	I	0.156	I	
0.79	90 TH	KA2	I	0.138	1,2,3		0.90	85 AT	KA2	I	0.157	I	
0.81	88 RA	KA1	I	0.140	I		0.91	79 AU	KB5	I	0.158	I	
0.81	89 AC	KA2	I	0.141	I		0.92	78 PT	KB2	I	0.159	1,3	
0.81	82 PB	KB4	I	0.141	1,2		0.92	79 AU	KB1	I	0.159	1,2,3	
0.82	83 BI	KB1	I	0.142	1,2,3		0.92	78 PT	KB4	I	0.159	1,2	
0.82	82 PB	KB2	I	0.142	1,3		0.92	79 AU	KB3	I	0.160	1,2	
0.82	83 BI	KB3	I	0.143	1,2		0.93	83 BI	KA1	I	0.161	1,2,3	
0.83	87 FR	KA1	I	0.144	I		0.93	84 PC	KA2	I	0.161	I	
0.83	88 RA	KA2	I	0.145	I		0.94	77 IR	KB4	I	0.163	1,2	
0.83	82 PB	KB5	I	0.145	I		0.94	78 PT	KB5	I	0.163	I	
0.84	82 PB	KB1	I	0.146	1,2,3		0.94	77 IR	KB2	I	0.164	1,3	
0.84	81 TL	KB2	I	0.146	I		0.94	78 PT	KB3	I	0.164	1,2	
0.85	82 PB	KB3	I	0.147	I		0.94	78 PT	KB1	I	0.164	1,2,3	
0.85	86 RN	KA1	I	0.148	I		0.95	82 PB	KA1	I	0.165	1,2,3	
0.86	87 FR	KA2	I	0.149	I		0.96	83 BI	KA2	I	0.166	1,2,3	
0.86	80 HG	KB2	I	0.150	I		0.96	77 IR	KB5	I	0.167	I	
0.86	81 TL	KB1	I	0.150	1,2,3		0.97	76 OS	KB2	I	0.169	1,3	
0.87	81 TL	KB3	I	0.151	1,2		0.97	77 IR	KB3	I	0.169	1,2	
0.88	85 AT	KA1	I	0.152	I		0.97	77 IR	KB1	I	0.169	1,2,3	
0.88	86 RN	KA2	I	0.153	I		0.98	81 TL	KA1	I	0.170	1,2,3	
0.89	80 HG	KB1	I	0.154	I		0.98	82 PB	KA2	I	0.170	1,2,3	
0.89	79 AU	KB4	I	0.154	1,2		1.00	76 OS	KB3	I	0.174	1,2	
0.89	79 AU	KB2	I	0.155	1,3		1.00	76 OS	KB1	I	0.174	1,2,3	

MICA CRYSTAL, D# 9.94E ANGSTROMS						1.00 TC 1.24					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
1.00	75 RE	KB2	1	0.174	1,3	1.13	97 BK	KB1	2	0.098	1
1.01	81 TL	KA2	1	0.175	1,2,3	1.13	72 HF	KB3	1	0.196	1,2
1.01	80 HG	KA1	1	0.175	1	1.13	72 HF	KB1	1	0.196	1,2,3
1.03	74 W	KB2	1	0.179	1,2,3	1.13	96 CM	KB2	2	0.098	1
1.03	75 RE	KB1	1	0.179	1,2,3	1.13	77 IR	KA2	1	0.196	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	75 RE	KB3	1	0.179	1,2	1.13	71 LU	KB2	1	0.197	1,2,3
1.04	79 AU	KA1	1	0.182	1,2,3	1.15	95 AM	KB2	2	0.100	1
1.04	80 HG	KA2	1	0.182	1	1.16	71 LU	KB1	1	0.202	1,2,3
1.05	74 W	KB5	1	0.185	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	1.17	71 LU	KB3	1	0.203	1,2
1.07	75 AU	KA2	1	0.185	1,2,3	1.17	75 RE	KA1	1	0.203	1,2,3
1.07	73 TA	KB2	1	0.185	1,2,3	1.17	70 YB	KB2	1	0.204	1,2,3
1.07	74 W	KB3	1	0.185	1,2	1.19	94 PU	KB2	2	0.103	1
1.07	98 CF	KB2	2	0.093	1	1.19	95 AM	KB1	2	0.103	1
1.07	74 PT	KA1	1	0.186	1,2,3	1.20	75 RE	KA2	1	0.208	1,2,3
1.09	73 TA	KB5	1	0.189	1	1.20	74 W	KA1	1	0.209	1,2,3
1.09	73 TA	KB1	1	0.190	1,2,3	1.20	70 YB	KB1	1	0.209	1,2,3
1.09	73 PT	KA2	1	0.190	1,2,3	1.20	70 YB	KB3	1	0.209	1,2
1.09	97 BK	KB2	2	0.095	1	1.21	93 NP	KB2	2	0.105	1
1.10	72 HF	KB2	1	0.191	1,2,3	1.21	69 TM	KB2	1	0.210	1
1.10	73 TA	KB3	1	0.191	1,2	1.22	94 PU	KB1	2	0.106	1
1.10	77 IR	KA1	1	0.191	1,2,3	1.23	74 W	KA2	1	0.214	1,2,3
1.12	98 CF	KB1	2	0.097	1	1.24	69 TM	KB1	1	0.215	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS							1.24 TO 1.45						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
1.24	73 TA	KA1	1	0.215	1,2,3		1.35	90 TH	KB1	2	0.117	1,2,3	
1.24	69 TM	KB3	1	0.216	1,2		1.35	95 AM	KA1	2	0.117	1	
1.24	98 CF	KA1	2	0.108	1		1.35	89 AC	KB2	2	0.117	1	
1.25	68 ER	KB2	1	0.217	1,2,3		1.35	71 LU	KA2	1	0.234	1,2,3	
1.26	93 NP	KB1	2	0.109	1		1.36	90 TH	KB3	2	0.118	1,2	
1.26	92 U	KB2	2	0.109	1,2,3		1.36	70 YE	KA1	1	0.237	1,2,3	
1.27	73 TA	KA2	1	0.220	1,2,3		1.36	66 DY	KB1	1	0.237	1,2,3	
1.28	91 PA	KB2	2	0.111	1		1.37	96 CM	KA2	2	0.119	1	
1.28	97 BK	KA1	2	0.111	1		1.37	66 DY	KB3	1	0.238	1,2	
1.28	72 HF	KA1	1	0.222	1,2,3		1.38	88 RA	KB2	2	0.120	1	
1.28	92 U	KB1	2	0.111	1,2,3		1.38	65 TB	KB2	1	0.240	1,2,3	
1.28	68 ER	KB3	1	0.223	1,2		1.38	94 PU	KA1	2	0.120	1	
1.28	68 ER	KB1	1	0.223	1,2,3		1.39	70 YE	KA2	1	0.241	1,2,3	
1.29	92 U	KB3	2	0.112	1,2		1.39	89 AC	KB1	2	0.121	1	
1.29	67 HO	KB2	1	0.224	1		1.40	69 TM	KA1	1	0.244	1,2,3	
1.30	98 CF	KA2	2	0.113	1		1.40	95 AM	KA2	2	0.122	1	
1.31	72 HF	KA2	1	0.227	1,2,3		1.42	65 TB	KB1	1	0.246	1,2,3	
1.31	96 CM	KA1	2	0.114	1		1.42	93 NP	KA1	2	0.123	1	
1.31	91 PA	KB1	2	0.114	1		1.42	65 TB	KB3	1	0.246	1,2	
1.31	90 TH	KB2	2	0.114	1,3		1.43	87 FR	KB2	2	0.124	1	
1.32	71 LU	KA1	1	0.229	1,2,3		1.43	88 RA	KB1	2	0.124	1	
1.32	67 HO	KB1	1	0.230	1		1.43	64 GD	KB2	1	0.248	1,2,3	
1.34	97 BK	KA2	2	0.116	1		1.43	69 TM	KA2	1	0.249	1,2,3	
1.34	66 DY	KB2	1	0.232	1,2,3		1.44	94 PU	KA2	2	0.125	1	
1.34	90 TH	KB3	2	0.116	1,2		1.45	92 U	KA1	2	0.126	1,2,3	

MICA CRYSTAL, D# 9.94E 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		1.58	62 SM	KB3	1	0.274	1,2	
1.46	86 RN	KB2	2	0.127	1		1.59	90 TH	KA2	2	0.138	1,2,3	
1.46	64 GD	KB1	1	0.254	1,2,3		1.59	83 BI	KB2	2	0.138	1,3	
1.46	87 FR	KB1	2	0.127	1		1.59	84 PC	KB1	2	0.138	1	
1.47	64 GD	KB3	1	0.255	1,2		1.59	61 PM	KB2	1	0.276	1	
1.47	93 NP	KA2	2	0.128	1		1.61	65 TB	KA1	1	0.279	1,2,3	
1.48	68 ER	KA2	1	0.257	1,2,3		1.61	98 CF	KB2	3	0.093	1	
1.48	63 EU	KB2	1	0.257	1,2,3		1.61	88 RA	KA1	2	0.140	1	
1.49	91 PA	KA1	2	0.129	1		1.62	82 PB	KB4	2	0.141	1,2	
1.50	67 HO	KA1	1	0.261	1,2,3		1.62	61 PM	KB1	1	0.282	1,2,3	
1.51	86 RN	KB1	2	0.131	1		1.62	89 AC	KA2	2	0.141	1	
1.51	92 U	KA2	2	0.131	1,2,3		1.63	61 PM	KB3	1	0.283	2	
1.51	85 AT	KB2	2	0.131	1		1.63	65 TB	KA2	1	0.283	1,2,2	
1.52	63 EU	KB1	1	0.264	1,2,3		1.64	82 PB	KB2	2	0.142	1,3	
1.52	63 EU	KB3	1	0.264	1,2		1.64	83 BI	KB1	2	0.142	1,2,3	
1.53	90 TH	KA1	2	0.133	1,2,3		1.64	97 BK	KB2	3	0.095	1	
1.53	62 SM	KB2	1	0.265	1,2,3		1.65	83 BI	KB3	2	0.143	1,2	
1.53	67 HO	KA2	1	0.265	1,2,3		1.65	60 NC	KB2	1	0.285	1,2,3	
1.54	91 PA	KA2	2	0.134	1		1.66	64 GD	KA1	1	0.288	1,2,3	
1.54	84 PO	KB2	2	0.134	1		1.66	87 FR	KA1	2	0.144	1	
1.54	85 AT	KB1	2	0.134	1		1.67	82 PB	KB5	2	0.145	1	
1.55	66 DY	KA1	1	0.270	1,2,3		1.67	88 RA	KA2	2	0.145	1	
1.57	89 AC	KA1	2	0.136	1		1.68	98 CF	KB1	3	0.097	1	
1.57	62 SM	KB1	1	0.273	1,2,3		1.68	82 PB	KB1	2	0.146	1,2,3	
1.58	66 DY	KA2	1	0.274	1,2,3		1.68	81 TL	KB2	2	0.146	1	

MICA CRYSTAL, D# 9.94E ANGSTROMS						1.69 TO 1.88					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
1.69	64 GC	KA2	1	0.293	1,2,3	1.78	95 AM	KB1	3	0.103	1
1.69	60 ND	KB1	1	0.293	1,2,3	1.79	79 AU	KB2	2	0.155	1,3
1.69	60 ND	KB3	1	0.294	1,2	1.79	80 HG	KB3	2	0.155	1
1.69	96 CM	KB2	3	0.098	1	1.80	84 PC	KA1	2	0.156	1
1.69	97 BK	KB1	3	0.098	1	1.81	62 SM	KA2	1	0.314	1,2,3
1.69	82 PB	KB3	2	0.147	1	1.81	85 AT	KA2	2	0.157	1
1.70	86 RN	KA1	2	0.148	1	1.81	93 NP	KB2	3	0.105	1
1.71	59 PR	KB2	1	0.297	1,2,3	1.82	79 AU	KB5	2	0.158	1
1.72	87 FR	KA2	2	0.149	1	1.82	58 CE	KB1	1	0.316	1,2,3
1.72	63 EU	KA1	1	0.299	1,2,3	1.82	58 CE	KB3	1	0.316	1,2
1.73	95 AM	KB2	3	0.100	1	1.83	79 AU	KB1	2	0.159	1,2,3
1.73	80 HG	KB2	2	0.150	1	1.83	94 PU	KB1	3	0.106	1
1.73	81 TL	KB1	2	0.150	1,2,3	1.83	78 PT	KB4	2	0.159	1,2
1.74	81 TL	KB3	2	0.151	1,2	1.83	78 PT	KB2	2	0.159	1,3
1.74	96 CM	KB1	3	0.101	1	1.84	57 LA	KB2	1	0.320	1,2,3
1.74	63 EU	KA2	1	0.303	1,2,3	1.84	79 AU	KB3	2	0.160	1,2
1.75	59 PR	KB1	1	0.304	1,2,3	1.85	61 PM	KA1	1	0.321	1,2,3
1.75	85 AT	KA1	2	0.152	1	1.85	83 BI	KA1	2	0.161	1,2,3
1.76	59 PR	KB3	1	0.305	1,2	1.85	84 PC	KA2	2	0.161	1
1.76	86 RN	KA2	2	0.153	1	1.87	98 CF	KA1	3	0.108	1
1.77	58 CE	KB2	1	0.308	1,2,3	1.87	61 PM	KA2	1	0.325	1,2,3
1.77	79 AU	KB4	2	0.154	1,2	1.88	78 PT	KB5	2	0.163	1
1.77	80 HG	KB1	2	0.154	1	1.88	57 LA	KB5	1	0.326	1
1.78	94 PU	KB2	3	0.103	1	1.88	77 IR	KB4	2	0.163	1,2
1.78	62 SM	KA1	1	0.309	1,2,3	1.88	93 NP	KB1	3	0.109	1

MICA CRYSTAL, D# 9.94E ANGSTROMS							1.88 TC 2.06						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
1.88	92 U	KB2	3	0.109	1,2,3		1.97	96 CM	KA1	3	0.114	1	
1.89	77 IR	KB2	2	0.164	1,3		1.97	91 PA	KB1	3	0.114	1	
1.89	57 LA	KB1	1	0.328	1,2,3		1.97	90 TH	KB2	3	0.114	1,3	
1.89	78 PT	KB3	2	0.164	1,2		1.98	59 PR	KA1	1	0.344	1,2,3	
1.89	78 PT	KB1	2	0.164	1,2,3		1.99	55 CS	KB2	1	0.346	1,2,3	
1.89	57 LA	KB3	1	0.329	1,2		2.00	76 CS	KB3	2	0.174	1,2	
1.90	82 PB	KA1	2	0.165	1,2,3		2.00	75 RE	KB2	2	0.174	1,3	
1.91	60 ND	KA1	1	0.332	1,2,3		2.00	97 BK	KA2	3	0.116	1	
1.91	83 BI	KA2	2	0.166	1,2,3		2.00	76 OS	KB1	2	0.174	1,2,3	
1.92	97 BK	KA1	3	0.111	1		2.00	90 TH	KB5	3	0.116	1,2	
1.92	92 U	KB1	3	0.111	1,2,3		2.01	59 PR	KA2	1	0.349	1,2,3	
1.92	91 PA	KB2	3	0.111	1		2.02	81 TL	KA2	2	0.175	1,2,3	
1.92	56 BA	KB2	1	0.333	1,2,3		2.02	80 HG	KA1	2	0.175	1	
1.92	77 IR	KB5	2	0.167	1		2.02	95 AM	KA1	3	0.117	1	
1.93	92 U	KB3	3	0.112	1,2		2.02	89 AC	KB2	3	0.117	1	
1.93	60 ND	KA2	1	0.336	1,2,3		2.02	90 TH	KB1	3	0.117	1,2,3	
1.95	76 OS	KB2	2	0.169	1,3		2.04	90 TH	KB3	3	0.118	1,2	
1.95	56 BA	KB5	1	0.336	1		2.04	55 CS	KB1	1	0.354	1,2,3	
1.95	77 IR	KB3	2	0.169	1,2		2.04	55 CS	KB3	1	0.355	1,2	
1.95	77 IR	KB1	2	0.169	1,2,3		2.06	96 CM	KA2	3	0.119	1	
1.95	98 CF	KA2	3	0.113	1		2.06	58 CE	KA1	1	0.357	1,2,3	
1.96	82 PB	KA2	2	0.170	1,2,3		2.06	75 RE	KB1	2	0.179	1,2,3	
1.96	81 TL	KA1	2	0.173	1,2,3		2.06	75 RE	KB3	2	0.179	1,2	
1.96	56 BA	KB3	1	0.341	1,2		2.06	74 W	KB2	2	0.179	1,2,3	
1.96	56 BA	KB1	1	0.341	1,2,3		2.06	74 W	KB4	2	0.179	1	

MICA CRYSTAL, D# 9.948 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		2.18	92 U	KA1	3	0.126	1,2,3
2.07	88 RA	KB2	3	0.120	1		2.19	78 PT	KA2	2	0.190	1,2,3
2.07	54 XE	KB2	1	0.360	1,2,3		2.19	97 BK	KB2	4	0.095	1
2.07	80 HG	KA2	2	0.180	1		2.19	73 TA	KB1	2	0.190	1,2,3
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
2.09	89 AC	KB1	3	0.121	1		2.20	72 HF	KB2	2	0.191	1,2,3
2.11	95 AM	KA2	3	0.122	1		2.20	73 TA	KB3	2	0.191	1,2
2.11	74 W	KB5	2	0.183	1		2.20	77 IR	KA1	2	0.191	1,2,3
2.12	73 TA	KB4	2	0.184	1		2.21	93 NP	KA2	3	0.128	1
2.12	74 W	KB1	2	0.184	1,2,3		2.21	53 I	KB1	1	0.384	1,2,3
2.12	54 XE	KB1	1	0.368	1,2,3		2.22	56 BA	KA1	1	0.385	1,2,3
2.13	93 NP	KA1	3	0.123	1		2.22	53 I	KB3	1	0.385	1,2
2.13	73 TA	KB2	2	0.185	1,2,3		2.23	91 PA	KA1	3	0.129	1
2.13	74 W	KB3	2	0.185	1,2		2.23	98 CF	KB1	4	0.097	1
2.13	79 AU	KA2	2	0.185	1,2,3		2.25	56 BA	KA2	1	0.390	1,2,3
2.14	57 LA	KA1	1	0.371	1,2,3		2.25	52 TE	KB2	1	0.391	1,2,3
2.14	98 CF	KB2	4	0.093	1		2.26	72 HF	KB1	2	0.196	1,2,3
2.14	78 PT	KA1	2	0.186	1,2,3		2.26	96 CM	KB2	4	0.098	1
2.14	88 RA	KB1	3	0.124	1		2.26	77 IR	KA2	2	0.196	1,2,3
2.14	87 FR	KB2	3	0.124	1		2.26	72 HF	KB3	2	0.196	1,2
2.16	53 I	KB2	1	0.375	1,2,3		2.26	97 BK	KB1	4	0.098	1
2.16	94 PU	KA2	3	0.125	1		2.26	86 RN	KB1	3	0.131	1
2.16	57 LA	KA2	1	0.375	1,2,3		2.26	85 AT	KB2	3	0.131	1
2.18	73 TA	KB5	2	0.189	1		2.26	92 U	KA2	3	0.131	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS							2.27 TC 2.49						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
2.27	76 OS	KA1	2	0.197	1,2,3		2.40	75 RE	KA2	2	0.208	1,2,3	
2.27	71 LU	KB2	2	0.197	1,2,3		2.40	54 XE	KA1	1	0.416	1,2,3	
2.30	90 TH	KA1	3	0.133	1,2,3		2.40	51 SE	KB1	1	0.417	1,2,3	
2.30	55 CS	KA1	1	0.400	1,2,3		2.41	51 SE	KB3	1	0.418	1,2	
2.30	95 AM	KB2	4	0.100	1		2.41	74 W	KA1	2	0.209	1,2,3	
2.30	52 TE	KB1	1	0.400	1,2,3		2.41	70 YE	KB1	2	0.209	1,2,3	
2.31	52 TE	KB3	1	0.401	1,2		2.41	70 YE	KB3	2	0.209	1,2	
2.31	84 PO	KB2	3	0.134	1		2.42	93 NP	KB2	4	0.105	1	
2.31	85 AT	KB1	3	0.134	1		2.42	54 XE	KA2	1	0.420	1,2,3	
2.31	91 PA	KA2	3	0.134	1		2.42	69 TM	KB2	2	0.210	1	
2.33	96 CM	KB1	4	0.101	1		2.42	88 RA	KA1	3	0.140	1	
2.33	71 LU	KB1	2	0.202	1,2,3		2.44	89 AC	KA2	3	0.141	1	
2.33	76 OS	KA2	2	0.202	1,2,3		2.44	82 PB	KB4	3	0.141	1,2	
2.33	55 CS	KA2	1	0.405	1,2,3		2.44	94 PU	KB1	4	0.106	1	
2.34	71 LU	KB3	2	0.203	1,2		2.45	82 PB	KB2	3	0.142	1,3	
2.34	75 RE	KA1	2	0.203	1,2,3		2.45	50 SN	KB2	1	0.426	1,2,3	
2.35	70 YB	KB2	2	0.204	1,2,3		2.45	83 BI	KB1	3	0.142	1,2,3	
2.35	89 AC	KA1	3	0.136	1		2.46	74 W	KA2	2	0.214	1,2,3	
2.35	51 SB	KB2	1	0.408	1,2,3		2.47	83 BI	KB3	3	0.143	1,2	
2.37	95 AM	KB1	4	0.103	1		2.48	73 TA	KA1	2	0.215	1,2,3	
2.37	94 PU	KB2	4	0.103	1		2.48	69 TM	KB1	2	0.215	1,2,3	
2.38	51 SB	KB5	1	0.414	1		2.49	69 TM	KB3	2	0.216	1,2	
2.38	90 TH	KA2	3	0.138	1,2,3		2.49	50 SN	KB5	1	0.432	1	
2.33	83 BI	KB2	3	0.138	1,3		2.49	87 FR	KA1	3	0.144	1	
2.33	84 PO	KB1	3	0.138	1		2.49	98 CF	KA1	4	0.108	1	

MICA CRYSTAL, D# 9.94E ANGSTROMS						2.49 TO 2.68					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
2.49	53 I	KA1	1	0.433	1,2,3	2.59	81 TL	KB1	3	0.150	1,2,3
2.50	68 ER	KB2	2	0.217	1,2,3	2.60	49 IN	KB5	1	0.451	1
2.51	88 RA	KA2	3	0.145	1	2.60	52 TE	KA1	1	0.451	1,2,3
2.51	50 SN	KB1	1	0.435	1,2,3	2.60	98 CF	KA2	4	0.113	1
2.51	82 PB	KB5	3	0.145	1	2.61	81 TL	KB3	3	0.151	1,2
2.51	92 U	KB2	4	0.109	1,2,3	2.61	72 HF	KA2	2	0.227	1,2,3
2.51	93 NP	KB1	4	0.109	1	2.62	49 IN	KB1	1	0.455	1,2,3
2.51	50 SN	KB3	1	0.436	1,2	2.62	49 IN	KB3	1	0.455	1,2
2.52	82 PB	KB1	3	0.146	1,2,3	2.63	52 TE	KA2	1	0.456	1,2,3
2.52	53 I	KA2	1	0.438	1,2,3	2.63	90 TH	KB2	4	0.114	1,3
2.52	81 TL	KB2	3	0.146	1	2.63	91 PA	KB1	4	0.114	1
2.53	73 TA	KA2	2	0.220	1,2,3	2.63	85 AT	KA1	3	0.152	1
2.54	82 PB	KB3	3	0.147	1	2.63	96 CM	KA1	4	0.114	1
2.56	72 HF	KA1	2	0.222	1,2,3	2.64	71 LU	KA1	2	0.229	1,2,3
2.56	91 PA	KB2	4	0.111	1	2.64	86 RN	KA2	3	0.153	1
2.56	92 U	KB1	4	0.111	1,2,3	2.65	67 HC	KB1	2	0.230	1
2.56	86 RN	KA1	3	0.148	1	2.66	79 AU	KB4	3	0.154	1,2
2.56	97 BK	KA1	4	0.111	1	2.66	80 HG	KB1	3	0.154	1
2.56	49 IN	KB2	1	0.445	1,2,3	2.67	66 DY	KB2	2	0.232	1,2,3
2.57	68 ER	KB1	2	0.223	1,2,3	2.67	97 BK	KA2	4	0.116	1
2.57	68 ER	KB3	2	0.223	1,2	2.67	90 TH	KB5	4	0.116	1,2
2.57	87 FR	KA2	3	0.149	1	2.68	79 AU	KB2	3	0.155	1,3
2.58	67 HC	KB2	2	0.224	1	2.68	48 CD	KB2	1	0.465	1,2,3
2.58	92 U	KB3	4	0.112	1,2	2.68	98 CF	KB2	5	0.093	1
2.59	80 HG	KB2	3	0.150	1	2.68	80 HG	KB3	3	0.155	1

MICA CRYSTAL, D# 9.94E ANGSTROMS							2.70 TO 2.86						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
2.70	95 AM	KA1	4	0.117	1		2.78	83 BI	KA1	3	0.161	1,2,3	
2.70	90 TH	KB1	4	0.117	1,2,3		2.78	84 PC	KA2	3	0.161	1	
2.70	71 LU	KA2	2	0.234	1,2,3		2.79	89 AC	KB1	4	0.121	1	
2.70	84 PG	KA1	3	0.155	1		2.79	98 CF	KB1	5	0.097	1	
2.70	85 AC	KB2	4	0.117	1		2.80	47 AG	KB2	1	0.487	1,2,3	
2.71	51 SB	KA1	1	0.470	1,2,3		2.81	95 AM	KA2	4	0.122	1	
2.71	85 AT	KA2	3	0.157	1		2.81	69 TM	KA1	2	0.244	1,2,3	
2.72	90 TH	KB3	4	0.118	1,2		2.82	78 PT	KB5	3	0.163	1	
2.73	70 YB	KA1	2	0.237	1,2,3		2.82	77 IR	KB4	3	0.163	1,2	
2.73	66 DY	KB1	2	0.247	1,2,3		2.82	96 CM	KB2	5	0.098	1	
2.73	75 AU	KB5	3	0.158	1		2.82	97 BK	KB1	5	0.098	1	
2.74	51 SB	KA2	1	0.475	1,2,3		2.83	50 SN	KA1	1	0.491	1,2,3	
2.74	97 BK	KB2	5	0.095	1		2.83	65 TB	KB1	2	0.246	1,2,3	
2.74	43 CD	KB1	1	0.475	1,2,3		2.83	65 TB	KB3	2	0.246	1,2	
2.74	65 DY	KB3	2	0.238	1,2		2.83	78 PT	KB3	3	0.164	1,2	
2.74	48 CD	KB3	1	0.476	1,2		2.83	93 NP	KA1	4	0.123	1	
2.74	96 CM	KA2	4	0.119	1		2.83	78 PT	KB1	3	0.164	1,2,3	
2.75	73 PT	KB2	3	0.159	1,3		2.83	77 IR	KB2	3	0.164	1,3	
2.75	78 PT	KB4	3	0.159	1,2		2.84	47 AG	KB5	1	0.493	1	
2.75	79 AU	KB1	3	0.159	1,2,3		2.85	50 SN	KA2	1	0.495	1,2,3	
2.76	54 PU	KA1	4	0.120	1		2.85	82 PB	KA1	3	0.165	1,2,3	
2.76	79 AU	KB3	3	0.160	1,2		2.86	88 RA	KB1	4	0.124	1	
2.76	65 TB	KB2	2	0.240	1,2,3		2.86	64 GD	KB2	2	0.248	1,2,3	
2.76	88 RA	KB2	4	0.120	1		2.86	87 FR	KB2	4	0.124	1	
2.78	70 YB	KA2	2	0.241	1,2,3		2.86	47 AG	KB1	1	0.497	1,2,3	

MICA CRYSTAL, D# 9.94E ANGSTROMS						2.87	TC	3.08			
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
2.87	69 TM	KA2	2	0.249	1,2,3	2.97	94 PU	KB2	5	0.103	1
2.87	83 BI	KA2	3	0.166	1,2,3	2.97	91 PA	KA1	4	0.129	1
2.87	47 AG	KB3	1	0.498	1,2	2.98	46 PC	KB5	1	0.517	1
2.88	94 PU	KA2	4	0.125	1	2.98	49 IN	KA2	1	0.517	1,2,3
2.88	95 AM	KB2	5	0.100	1	3.00	46 PC	KB1	1	0.521	1,2,3
2.89	77 IR	KB5	3	0.167	1	3.00	46 PC	KB3	1	0.521	1,2
2.90	68 ER	KA1	2	0.252	1,2,3	3.01	75 RE	KB2	3	0.174	1,3
2.90	92 U	KA1	4	0.126	1,2,3	3.01	76 OS	KB1	3	0.174	1,2,3
2.91	96 CM	KB1	5	0.101	1	3.01	67 HC	KA1	2	0.261	1,2,3
2.92	77 IR	KB1	3	0.169	1,2,3	3.01	76 OS	KB3	3	0.174	1,2
2.92	76 OS	KB2	3	0.169	1,3	3.02	85 AT	KB2	4	0.131	1
2.92	77 IR	KB3	3	0.169	1,2	3.02	92 U	KA2	4	0.131	1,2,3
2.93	87 FR	KB1	4	0.127	1	3.02	86 RN	KB1	4	0.131	1
2.93	64 GD	KB1	2	0.254	1,2,3	3.02	81 TL	KA2	3	0.175	1,2,3
2.93	86 RN	KB2	4	0.127	1	3.02	80 HG	KA1	3	0.175	1
2.94	46 PD	KB2	1	0.510	1,2,3	3.02	93 NP	KB2	5	0.105	1
2.94	82 PB	KA2	3	0.170	1,2,3	3.04	63 EU	KB1	2	0.264	1,2,3
2.94	64 GD	KB3	2	0.255	1,2	3.04	63 EU	KB3	2	0.264	1,2
2.94	81 TL	KA1	3	0.170	1,2,3	3.05	94 PU	KB1	5	0.106	1
2.95	49 IN	KA1	1	0.512	1,2,3	3.05	97 BK	LY1	1	0.530	1
2.95	93 NP	KA2	4	0.128	1	3.06	62 SM	KB2	2	0.266	1,2,3
2.96	63 EU	KB2	2	0.257	1,2,3	3.06	90 TH	KA1	4	0.133	1,2,3
2.96	68 ER	KA2	2	0.257	1,2,3	3.06	67 HC	KA2	2	0.266	1,2,3
2.97	98 CF	LY1	1	0.515	1	3.08	45 RH	KB2	1	0.535	1,2,3
2.97	95 AM	KB1	5	0.103	1	3.08	48 CC	KA1	1	0.535	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS							3.09 TO 3.27						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
3.09	84 PO	KB2	4	0.134	1		3.18	84 PC	KB1	4	0.138	1	
3.09	91 PA	KA2	4	0.134	1		3.18	61 PM	KB2	2	0.276	1	
3.09	85 AT	KB1	4	0.134	1		3.18	74 W	KB1	3	0.184	1,2,3	
3.09	75 RE	KB3	3	0.179	1,2		3.18	90 TH	KA2	4	0.138	1,2,3	
3.09	74 W	KB2	3	0.179	1,2,3		3.20	92 U	KB1	5	0.111	1,2,3	
3.09	75 RE	KB1	3	0.179	1,2,3		3.20	79 AU	KA2	3	0.185	1,2,3	
3.09	74 W	KB4	3	0.179	1		3.20	91 PA	KB2	5	0.111	1	
3.10	48 CD	KA2	1	0.537	1,2,3		3.20	97 BK	KA1	5	0.111	1	
3.11	80 HG	KA2	3	0.180	1		3.20	74 W	KB3	3	0.185	1,2	
3.11	98 CF	KA1	5	0.103	1		3.20	73 TA	KB2	3	0.185	1,2,3	
3.11	79 AU	KA1	3	0.187	1,2,3		3.21	65 TB	KA1	2	0.279	1,2,3	
3.11	66 DY	KA1	2	0.270	1,2,3		3.21	78 PT	KA1	3	0.186	1,2,3	
3.12	45 RH	KB5	1	0.541	1		3.22	47 AG	KA1	1	0.559	1,2,3	
3.13	89 AC	KA1	4	0.136	1		3.23	88 RA	KA1	4	0.140	1	
3.14	92 U	KB2	5	0.109	1,2,3		3.23	92 U	KB3	5	0.112	1,2	
3.14	93 NP	KB1	5	0.109	1		3.24	44 RU	KB2	1	0.562	1,2,3	
3.14	62 SM	KB1	2	0.273	1,2,3		3.24	95 AM	LY1	1	0.562	1,3	
3.14	45 RH	KB3	1	0.546	1,2		3.25	47 AG	KA2	1	0.564	1,2,3	
3.14	45 RH	KB1	1	0.546	1,2,3		3.25	82 PE	KB4	4	0.141	1,2	
3.14	96 CM	LY1	1	0.546	1		3.25	89 AC	KA2	4	0.141	1	
3.16	62 SM	KB3	2	0.274	1,2		3.25	61 PM	KB1	2	0.282	1,2,3	
3.16	66 DY	KA2	2	0.274	1,2,3		3.25	98 CF	KA2	5	0.113	1	
3.16	74 W	KB5	3	0.183	1		3.26	65 TB	KA2	2	0.283	1,2,3	
3.18	83 BI	KB2	4	0.138	1,3		3.26	61 PM	KB3	2	0.283	2	
3.18	73 TA	KB4	3	0.134	1		3.27	73 TA	KB5	3	0.189	1	

MICA CRYSTAL, D# 9.94E ANGSTROMS						3.27 TC 3.44					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
3.27	82 PB	KB2	4	0.142	1,3	3.37	89 AC	KB2	5	0.117	1
3.27	44 RU	KB5	1	0.568	1	3.37	95 AM	KA1	5	0.117	1
3.27	83 BI	KB1	4	0.142	1,2,3	3.37	46 PC	KA1	1	0.585	1,2,3
3.28	91 PA	KB1	5	0.114	1	3.38	60 ND	KB1	2	0.293	1,2,3
3.28	96 CM	KA1	5	0.114	1	3.38	64 GD	KA2	2	0.293	1,2,3
3.28	78 PT	KA2	3	0.190	1,2,3	3.39	77 IR	KA2	3	0.196	1,2,3
3.28	73 TA	KB1	3	0.190	1,2,3	3.39	82 PB	KB3	4	0.147	1
3.28	90 TH	KB2	5	0.114	1,3	3.39	60 ND	KB3	2	0.294	1,2
3.29	60 ND	KB2	2	0.286	1,2,3	3.39	72 HF	KB1	3	0.196	1,2,3
3.29	83 BI	KB3	4	0.143	1,2	3.39	72 HF	KB3	3	0.196	1,2
3.29	44 RU	KB1	1	0.572	1,2,3	3.40	90 TH	KB3	5	0.118	1,2
3.30	77 IR	KA1	3	0.191	1,2,3	3.40	43 TC	KB2	1	0.590	1
3.30	72 HF	KB2	3	0.191	1,2,3	3.40	46 PC	KA2	1	0.590	1,2,3
3.30	73 TA	KB3	3	0.191	1,2	3.40	43 TC	KB4	1	0.590	1
3.30	44 RU	KB3	1	0.573	1,2	3.40	71 LU	KB2	3	0.197	1,2,3
3.32	64 GD	KA1	2	0.288	1,2,3	3.40	76 OS	KA1	3	0.197	1,2,3
3.32	87 FR	KA1	4	0.144	1	3.41	86 RN	KA1	4	0.148	1
3.33	94 PU	LY1	1	0.579	1	3.42	59 PR	KB2	2	0.297	1,2,3
3.34	88 RA	KA2	4	0.145	1	3.42	91 PA	LY4	1	0.594	1,2
3.34	82 PB	KB5	4	0.145	1	3.43	96 CM	KA2	5	0.119	1
3.34	90 TH	KB5	5	0.116	1,2	3.43	92 U	LY6	1	0.595	1,2
3.34	97 BK	KA2	5	0.116	1	3.43	87 FR	KA2	4	0.149	1
3.36	82 PB	KB1	4	0.146	1,2,3	3.44	93 NP	LY1	1	0.597	1,2,3
3.36	81 TL	KB2	4	0.146	1	3.44	92 U	LY3	1	0.598	1,2,3
3.37	90 TH	KB1	5	0.117	1,2,3	3.44	63 EU	KA1	2	0.299	1,2,3

MICA CRYSTAL, DH 9.94E ANGSTROMS						3.46 TO 3.63					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
3.46	81 TL	KB1	4	0.150	1,2,3	3.54	92 U	LY1	1	0.615	1,2,3
3.46	94 PU	KA1	5	0.120	1	3.55	58 CE	KB2	2	0.308	1,2,3
3.46	88 RA	KB2	5	0.120	1	3.55	79 AU	KB4	4	0.154	1,2
3.46	80 HG	KB2	4	0.150	1	3.55	80 HG	KB1	4	0.154	1
3.46	43 TC	KB3	1	0.601	1,2	3.55	91 PA	LY3	1	0.617	1,2,3
3.47	43 TC	KB1	1	0.602	1,2,3	3.56	62 SM	KA1	2	0.309	1,2,3
3.47	98 CF	LB1	1	0.603	1	3.56	45 RH	KA2	1	0.618	1,2,3
3.48	81 TL	KB3	4	0.151	1,2	3.57	80 HG	KB3	4	0.155	1
3.48	92 U	LY2	1	0.605	1,2,3	3.57	88 RA	KB1	5	0.124	1
3.48	89 AC	KB1	5	0.121	1	3.57	87 FR	KB2	5	0.124	1
3.49	63 EU	KA2	2	0.303	1,2,3	3.57	79 AU	KB2	4	0.155	1,3
3.49	71 LU	KB1	3	0.202	1,2,3	3.57	42 MO	KB4	1	0.620	2
3.49	76 OS	KA2	3	0.202	1,2,3	3.58	97 BK	LB1	1	0.621	1
3.50	85 AT	KA1	4	0.152	1	3.58	42 MO	KB2	1	0.621	1,2,3
3.50	59 PR	KB1	2	0.304	1,2,3	3.59	75 RE	KA2	3	0.208	1,2,3
3.51	71 LU	KB3	3	0.203	1,2	3.59	91 PA	LY2	1	0.624	1,2,3
3.51	75 RE	KA1	3	0.203	1,2,3	3.59	84 PO	KA1	4	0.156	1
3.51	59 PR	KB3	2	0.305	1,2	3.60	94 PU	KA2	5	0.125	1
3.51	95 AM	KA2	5	0.122	1	3.61	70 YB	KB1	3	0.209	1,2,3
3.52	90 TH	LY4	1	0.611	1,2	3.61	42 MO	KB5	1	0.627	1
3.52	70 YB	KB2	3	0.204	1,2,3	3.61	70 YB	KB3	3	0.209	1,2
3.52	85 RN	KA2	4	0.153	1	3.61	74 W	KA1	3	0.209	1,2,3
3.53	45 RH	KA1	1	0.613	1,2,3	3.62	62 SM	KA2	2	0.314	1,2,3
3.53	91 PA	LY6	1	0.613	1,2	3.62	85 AT	KA2	4	0.157	1
3.54	93 NP	KA1	5	0.123	1	3.63	92 U	KA1	5	0.126	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS						3.63 TO 3.80					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
3.63	69 TM	KB2	3	0.210	1	3.72	69 TM	KB1	3	0.215	1,2,3
3.64	58 CE	KB3	2	0.316	1,2	3.72	73 TA	KA1	3	0.215	1,2,3
3.64	90 TH	LY6	1	0.632	1,2	3.72	91 PA	KA1	5	0.129	1
3.64	79 AU	KB5	4	0.158	1	3.73	44 RU	KA2	1	0.647	1,2,3
3.64	58 CE	KB1	2	0.316	1,2,3	3.73	69 TM	KB3	3	0.216	1,2
3.64	42 MO	KB1	1	0.632	1,2,3	3.74	88 RA	LY4	1	0.649	1,2
3.65	42 MO	KB3	1	0.633	1,2	3.74	61 PM	KA2	2	0.325	1,2,3
3.65	91 PA	LY1	1	0.634	1,2,3	3.75	68 ER	KB2	3	0.217	1,2,3
3.66	92 U	LY5	1	0.635	1,2	3.76	78 PT	KB5	4	0.163	1
3.66	87 FR	KB1	5	0.127	1	3.76	77 IR	KB4	4	0.163	1,2
3.66	86 RN	KB2	5	0.127	1	3.76	57 LA	KB5	2	0.326	1
3.66	78 PT	KB4	4	0.159	1,2	3.76	90 TH	LY1	1	0.653	1,2,3
3.66	78 PT	KB2	4	0.159	1,3	3.76	98 CF	LB2	1	0.653	1
3.66	79 AU	KB1	4	0.159	1,2,3	3.77	41 NB	KB2	1	0.654	1,2,3
3.66	90 TH	LY3	1	0.636	1,2,3	3.77	86 RN	KB1	5	0.131	1
3.68	96 CM	LB1	1	0.639	1	3.77	85 AT	KB2	5	0.131	1
3.69	57 LA	KB2	2	0.320	1,2,3	3.77	91 PA	LY5	1	0.655	1,2
3.69	93 NP	KA2	5	0.128	1	3.77	92 U	KA2	5	0.131	1,2,3
3.69	79 AU	KB3	4	0.160	1,2	3.78	78 PT	KB1	4	0.164	1,2,3
3.70	90 TH	LY2	1	0.642	1,2,3	3.78	78 PT	KB3	4	0.164	1,2
3.70	74 W	KA2	3	0.214	1,2,3	3.78	57 LA	KB1	2	0.328	1,2,3
3.70	61 PM	KA1	2	0.321	1,2,3	3.78	77 IR	KB2	4	0.164	1,3
3.70	44 RU	KA1	1	0.643	1,2,3	3.79	57 LA	KB3	2	0.329	1,2
3.71	83 BI	KA1	4	0.161	1,2,3	3.79	95 AM	LB1	1	0.658	1,3
3.71	84 PO	KA2	4	0.161	1	3.80	82 PB	KA1	4	0.165	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS							3.80 TO 4.01					
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF
3.80	73 TA	KA2	3	0.220	1,2,3		3.89	56 BA	KB5	2	0.338	1
3.80	41 AB	KB5	1	0.660	1		3.89	77 IR	KB1	4	0.169	1,2,3
3.82	83 BI	KA2	4	0.166	1,2,3		3.89	43 TC	KA2	1	0.676	2,3
3.82	60 ND	KA1	2	0.332	1,2,3		3.91	94 PU	LB1	1	0.678	1
3.83	90 TH	KA1	5	0.133	1,2,3		3.92	81 TL	KA1	4	0.170	1,2,3
3.84	41 NB	KB3	1	0.666	1,2		3.92	82 PB	KA2	4	0.170	1,2,3
3.84	56 BA	KB2	2	0.333	1,2,3		3.92	89 AC	KA1	5	0.136	1
3.84	72 HF	KA1	3	0.222	1,2,3		3.92	92 U	LB9	1	0.681	1,2
3.84	41 NB	KB1	1	0.666	1,2,3		3.92	72 HF	KA2	3	0.227	1,2,3
3.85	77 IR	KB5	4	0.167	1		3.93	56 BA	KB3	2	0.341	1,2
3.85	68 ER	KB3	3	0.223	1,2		3.93	88 RA	LY2	1	0.682	1,2,3
3.85	97 BK	LB2	1	0.669	1		3.93	56 BA	KB1	2	0.341	1,2,3
3.85	68 ER	KB1	3	0.223	1,2,3		3.95	96 CM	LB2	1	0.685	1
3.86	85 AT	KB1	5	0.134	1		3.96	71 LU	KA1	3	0.229	1,2,3
3.86	84 PC	KB2	5	0.134	1		3.96	92 U	LB10	1	0.687	1,2
3.86	91 PA	KA2	5	0.134	1		3.96	59 PR	KA1	2	0.344	1,2,3
3.87	67 HC	KB2	3	0.224	1		3.97	90 TH	KA2	5	0.138	1,2,3
3.87	66 ND	KA2	2	0.336	1,2,3		3.97	40 ZR	KB2	1	0.690	1,2,3
3.88	83 RA	LY6	1	0.673	1,2		3.97	67 HC	KB1	3	0.230	1
3.88	43 TC	KA1	1	0.673	2,3		3.97	84 PC	KB1	5	0.138	1
3.88	89 AC	LY1	1	0.674	1		3.97	83 BI	KB2	5	0.138	1,3
3.89	83 RA	LY3	1	0.675	1,2,3		3.99	55 CS	KB2	2	0.346	1,2,3
3.89	90 TH	LY5	1	0.675	1,2		4.00	88 RA	LY1	1	0.695	1,2,3
3.89	77 IR	KB3	4	0.169	1,2		4.01	40 ZR	KB5	1	0.696	1
3.89	76 OS	KB2	4	0.169	1,3		4.01	76 OS	KB1	4	0.174	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS						4.01 TO 4.20					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
4.01	66 DY	KB2	3	0.232	1,2,3	4.11	58 CE	KA1	2	0.357	1,2,3
4.01	75 RE	KB2	4	0.174	1,3	4.11	66 DY	KB3	3	0.238	1,2
4.01	76 OS	KB3	4	0.174	1,2	4.12	83 BI	KB3	5	0.143	1,2
4.02	59 PR	KA2	2	0.349	1,2,3	4.13	74 W	KB2	4	0.179	1,2,3
4.02	93 NP	LB1	1	0.698	1,2,3	4.13	75 RE	KB3	4	0.179	1,2
4.03	88 RA	KA1	5	0.140	1	4.13	74 W	KB4	4	0.179	1
4.03	80 HG	KA1	4	0.175	1	4.13	75 RE	KB1	4	0.179	1,2,3
4.03	81 TL	KA2	4	0.175	1,2,3	4.13	87 FR	LY1	1	0.716	1,2,3
4.04	91 PA	LB9	1	0.701	1,2	4.13	88 RA	LY5	1	0.717	1,2
4.04	95 AM	LB2	1	0.701	1,3	4.14	94 PU	LB2	1	0.718	1
4.04	71 LU	KA2	3	0.234	1,2,3	4.15	65 TB	KB2	3	0.240	1,2,3
4.04	40 ZR	KB3	1	0.702	1,2	4.15	79 AU	KA1	4	0.180	1,2,3
4.04	40 ZR	KB1	1	0.702	1,2,3	4.15	87 FR	KA1	5	0.144	1
4.06	82 PB	KB4	5	0.141	1,2	4.15	54 XE	KB2	2	0.360	1,2,3
4.06	89 AC	KA2	5	0.141	1	4.15	92 U	LB1	1	0.720	1,2,3
4.08	55 CS	KB1	2	0.354	1,2,3	4.15	80 HG	KA2	4	0.180	1
4.08	91 PA	LB10	1	0.708	1,2	4.16	70 YB	KA2	3	0.241	1,2,3
4.08	42 MO	KA1	1	0.709	1,2,3	4.16	90 TH	LB9	1	0.723	1,2
4.09	83 BI	KB1	5	0.142	1,2,3	4.17	58 CE	KA2	2	0.362	1,2,3
4.09	92 U	LB3	1	0.710	1,2,3	4.18	82 PB	KB5	5	0.145	1
4.09	55 CS	KB3	2	0.355	1,2	4.18	88 RA	KA2	5	0.145	1
4.09	82 PB	KB2	5	0.142	1,3	4.18	92 U	LB5	1	0.726	1,2
4.10	66 DY	KB1	3	0.237	1,2,3	4.19	39 Y	KB4	1	0.727	2
4.10	70 YB	KA1	3	0.237	1,2,3	4.20	39 Y	KB2	1	0.729	1,2,3
4.11	42 MO	KA2	1	0.713	1,2,3	4.20	82 PB	KB1	5	0.146	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS							4.20 TO 4.40						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
4.20	81 TL	KB2	5	0.146	1		4.29	87 FR	KA2	5	0.149	1	
4.20	90 TH	LB10	1	0.730	1,2		4.29	91 PA	LB5	1	0.745	1,2	
4.22	74 W	KB5	4	0.183	1		4.30	41 NB	KA1	1	0.746	1,2,3	
4.22	69 TM	KA1	3	0.244	1,2,3		4.30	69 TM	KA2	3	0.249	1,2,3	
4.22	91 PA	LB3	1	0.732	1,2,3		4.31	92 U	LB4	1	0.748	1,2,3	
4.23	39 Y	KB5	1	0.734	1		4.32	41 NB	KA2	1	0.750	1,2,3	
4.23	82 PB	KB3	5	0.147	1		4.32	57 LA	KA2	2	0.375	1,2,3	
4.24	74 W	KB1	4	0.184	1,2,3		4.32	80 HG	KB2	5	0.150	1	
4.24	92 U	LB7	1	0.735	1,2		4.32	53 I	KB2	2	0.375	1,2,3	
4.24	73 TA	KB4	4	0.184	1		4.32	81 TL	KB1	5	0.150	1,2,3	
4.24	93 NP	LB2	1	0.736	1,2,3		4.35	92 U	LB2	1	0.755	1,2,3	
4.24	54 XE	KB1	2	0.368	1,2,3		4.35	91 PA	LB7	1	0.755	1,2	
4.25	65 TB	KB3	3	0.246	1,2		4.35	81 TL	KB3	5	0.151	1,2	
4.25	65 TB	KB1	3	0.246	1,2,3		4.35	90 TH	LB3	1	0.755	1,2,3	
4.26	86 RN	LY1	1	0.739	1		4.35	68 ER	KA1	3	0.252	1,2,3	
4.26	73 TA	KB2	4	0.185	1,2,3		4.35	73 TA	KB5	4	0.189	1	
4.26	79 AU	KA2	4	0.135	1,2,3		4.38	78 PT	KA2	4	0.190	1,2,3	
4.25	74 W	KB3	4	0.185	1,2		4.38	73 TA	KB1	4	0.190	1,2,3	
4.26	86 RN	KA1	5	0.148	1		4.38	85 AT	KA1	5	0.152	1	
4.27	39 Y	KB3	1	0.741	1,2		4.38	83 BI	LY4	1	0.761	1,2	
4.27	39 Y	KB1	1	0.741	1,2,3		4.39	64 GD	KB1	3	0.254	1,2,3	
4.27	91 PA	LB1	1	0.742	1,2,3		4.40	85 AT	LY1	1	0.763	1	
4.27	57 LA	KA1	2	0.371	1,2,3		4.40	77 IR	KA1	4	0.191	1,2,3	
4.29	78 PT	KA1	4	0.86	1,2,3		4.40	84 PC	LY6	1	0.764	1,2	
4.29	64 GD	KB2	3	0.248	1,2,3		4.40	84 PC	LY3	1	0.764	1,2,3	

MICA CRYSTAL. D# 9.94E ANGSTROMS						4.40 TO 4.58					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
4.40	72 HF	KB2	4	0.191	1,2,3	4.51	67 HC	KA1	3	0.261	1,2,3
4.40	73 TA	KB3	4	0.191	1,2	4.51	38 SR	KB3	1	0.783	1,2
4.41	86 RN	KA2	5	0.153	1	4.51	38 SR	KB1	1	0.783	1,2,3
4.41	90 TH	LB1	1	0.765	1,2,3	4.52	77 IR	KA2	4	0.196	1,2,3
4.41	64 GC	KB3	3	0.255	1,2	4.52	72 HF	KB3	4	0.196	1,2
4.41	90 TH	LB5	1	0.765	1,2	4.52	72 HF	KB1	4	0.196	1,2,3
4.42	53 I	KB1	2	0.384	1,2,3	4.52	85 AT	KA2	5	0.157	1
4.43	88 RA	LB9	1	0.769	1,2	4.53	82 PE	LY4	1	0.786	1
4.44	80 HG	KB1	5	0.154	1	4.53	40 ZR	KA1	1	0.786	1,2,3
4.44	91 PA	LB4	1	0.770	1,2,3	4.53	84 PC	LY1	1	0.787	1,2,3
4.44	56 BA	KA1	2	0.385	1,2,3	4.54	71 LU	KB2	4	0.197	1,2,3
4.44	79 AU	KB4	5	0.154	1,2	4.54	76 CS	KA1	4	0.197	1,2,3
4.44	53 I	KB3	2	0.385	1,2	4.54	92 U	LB6	1	0.788	1,2,3
4.44	68 ER	KA2	3	0.257	1,2,3	4.54	89 AC	LB1	1	0.789	1
4.44	38 SR	KB2	1	0.771	1,2,3	4.54	83 BI	LY3	1	0.789	1,2,3
4.44	63 EU	KB2	3	0.257	1,2,3	4.55	40 ZR	KA2	1	0.790	1,2,3
4.46	91 PA	LB2	1	0.774	1,2,3	4.55	79 AU	KB5	5	0.158	1
4.46	90 TH	LB7	1	0.774	1,2	4.55	83 BI	LY6	1	0.790	1,2
4.46	80 HG	KB3	5	0.155	1	4.56	63 EU	KB3	3	0.264	1,2
4.46	88 RA	LB10	1	0.775	1,2	4.56	63 EU	KB1	3	0.264	1,2,3
4.46	79 AU	KB2	5	0.155	1,3	4.56	98 CF	LA1	1	0.792	1
4.46	38 SR	KB5	1	0.775	1	4.57	90 TH	LB4	1	0.793	1,2,3
4.49	84 PO	KA1	5	0.156	1	4.57	90 TH	LB2	1	0.794	1,2,3
4.49	56 BA	KA2	2	0.390	1,2,3	4.58	78 PT	KB4	5	0.159	1,2
4.50	52 TE	KB2	2	0.391	1,2,3	4.58	78 PT	KB2	5	0.159	1,3

MICA CRYSTAL, D# 9.948 ANGSTROMS							4.58 TO 4.78						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
4.58	79 AU	KB1	5	0.159	1,2,3		4.69	89 AC	LB2	1	0.814	1	
4.59	83 BI	LY2	1	0.796	1,2,3		4.69	78 PT	KB5	5	0.163	1	
4.60	67 HO	KA2	3	0.266	1,2,3		4.69	82 PB	LY3	1	0.815	1,2,3	
4.60	62 SM	KB2	3	0.266	1,2,3		4.69	77 IR	KB4	5	0.163	1,2	
4.61	79 AU	KB3	5	0.160	1,2		4.70	51 SB	KB2	2	0.408	1,2,3	
4.61	52 TE	KB1	2	0.400	1,2,3		4.70	88 RA	LB7	1	0.816	1,2	
4.61	55 CS	KA1	2	0.400	1,2,3		4.70	70 YE	KB2	4	0.204	1,2,3	
4.62	52 TE	KB3	2	0.401	1,2		4.70	37 RE	KB2	1	0.816	1,2,3	
4.63	88 RA	LB3	1	0.803	1,2,3		4.71	82 PB	LY6	1	0.817	1,2	
4.63	98 CF	LA2	1	0.804	1		4.72	62 SM	KB1	3	0.273	1,2,3	
4.64	92 J	LN	1	0.805	1,2,3		4.72	78 PT	KB3	5	0.164	1,2	
4.64	83 BI	KA1	5	0.161	1,2,3		4.72	77 IR	KB2	5	0.164	1,3	
4.64	84 PO	KA2	5	0.161	1		4.72	78 PT	KB1	5	0.164	1,2,3	
4.64	88 RA	LB5	1	0.806	1,2		4.73	82 PB	LY2	1	0.821	1,2,3	
4.65	76 OS	KA2	4	0.202	1,2,3		4.74	66 DY	KA2	3	0.274	1,2,3	
4.65	71 LU	KB1	4	0.202	1,2,3		4.74	97 BK	LA2	1	0.822	1	
4.65	91 PA	LB6	1	0.806	1,2,3		4.74	62 SM	KB3	3	0.274	1,2	
4.67	55 CS	KA2	2	0.405	1,2,3		4.74	37 RE	KB5	1	0.322	1	
4.67	97 BK	LA1	1	0.810	1		4.75	82 PB	KA1	5	0.165	1,2,3	
4.67	66 DY	KA1	3	0.270	1,2,3		4.77	90 TH	LB6	1	0.828	1,2,3	
4.68	71 LU	KB3	4	0.203	1,2		4.77	51 SB	KB5	2	0.414	1	
4.68	81 TL	LY4	1	0.812	1,2		4.77	61 PM	KB2	3	0.276	1	
4.68	75 RE	KA1	4	0.203	1,2,3		4.78	39 Y	KA1	1	0.829	1,2,3	
4.68	83 BI	LY1	1	0.813	1,2,3		4.78	91 PA	LN	1	0.829	1,2,3	
4.69	88 RA	LB1	1	0.814	1,2,3		4.78	37 RE	KB1	1	0.829	1,2,3	

MICA CRYSTAL, D# 9.94E ANGSTROMS							4.78 TO 4.99						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
4.78	37 RE	KB3	1	0.829	1,2		4.87	76 OS	KB2	5	0.169	1,3	
4.78	96 CM	LA1	1	0.829	1		4.87	77 IR	KB1	5	0.169	1,2,3	
4.78	83 BI	KA2	5	0.166	1,2,3		4.87	61 PM	KB1	3	0.282	1,2,3	
4.79	75 RE	KA2	4	0.208	1,2,3		4.89	81 TL	LY2	1	0.848	1,2,3	
4.79	54 XE	KA1	2	0.416	1,2,3		4.89	95 AM	LA1	1	0.848	1,3	
4.80	39 Y	KA2	1	0.833	1,2,3		4.89	65 TE	KA2	3	0.283	1,2,3	
4.80	51 SB	KB1	2	0.417	1,2,3		4.89	61 PM	KB3	3	0.283	2	
4.81	77 IR	KB5	5	0.167	1		4.90	81 TL	KA1	5	0.170	1,2,3	
4.81	88 RA	LB2	1	0.835	1,2,3		4.90	82 PE	KA2	5	0.170	1,2,3	
4.82	70 YB	KB3	4	0.209	1,2		4.91	50 SN	KB2	2	0.426	1,2,3	
4.82	51 SB	KB3	2	0.418	1,2		4.92	90 TH	LN	1	0.854	1,2,3	
4.82	70 YB	KB1	4	0.209	1,2,3		4.93	74 W	KA2	4	0.214	1,2,3	
4.82	74 W	KA1	4	0.209	1,2,3		4.94	60 ND	KB2	3	0.286	1,2,3	
4.82	65 TB	KA1	3	0.279	1,2,3		4.94	87 FR	LB2	1	0.858	1,2,3	
4.83	80 HG	LY4	1	0.839	1,2		4.95	69 TM	KB1	4	0.215	1,2,3	
4.83	83 BI	LY5	1	0.839	1,2		4.95	95 AM	LA2	1	0.860	1,3	
4.84	82 PB	LY1	1	0.840	1,2,3		4.95	73 TA	KA1	4	0.215	1,2,3	
4.84	54 XE	KA2	2	0.420	1,2,3		4.98	64 GD	KA1	3	0.288	1,2,3	
4.84	69 TM	KB2	4	0.210	1		4.98	69 TM	KB3	4	0.216	1,2	
4.84	87 FR	LB1	1	0.840	1,2,3		4.98	50 SN	KB5	2	0.432	1	
4.84	96 CM	LA2	1	0.841	1		4.99	36 KR	KB2	1	0.866	1,2,3	
4.84	88 RA	LB4	1	0.841	1,2,3		4.99	53 I	KA1	2	0.433	1,2,3	
4.84	81 TL	LY3	1	0.841	1,2,3		4.99	82 PE	LY5	1	0.866	1,2	
4.86	81 TL	LY6	1	0.844	1,2		4.99	36 KR	KB4	1	0.866	2	
4.87	77 IR	KB3	5	0.169	1,2		4.99	86 RN	LB1	1	0.866	1	

MICA CRYSTAL, D# 9.94E ANGSTROMS							5.00 TO 5.20					
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF
5.00	68 ER	K82	4	0.217	1,2,3		5.08	60 ND	K83	3	0.294	1,2
5.00	94 PU	LA1	1	0.268	1		5.12	72 HF	KA1	4	0.222	1,2,3
5.00	81 TL	LY1	1	0.868	1,2,3		5.12	93 NP	LA1	1	0.889	1,2,3
5.01	80 HG	LY3	1	0.869	1,2,3		5.13	49 IN	K82	2	0.445	1,2,3
5.01	76 OS	K81	5	0.174	1,2,3		5.13	59 PR	K82	3	0.297	1,2,3
5.01	76 OS	K83	5	0.174	1,2		5.14	68 ER	K83	4	0.223	1,2
5.01	50 SN	K81	2	0.435	1,2,3		5.14	68 ER	K81	4	0.223	1,2,3
5.01	75 RE	K82	5	0.174	1,3		5.15	85 AT	LB1	1	0.894	1
5.02	36 KR	K85	1	0.871	1,2		5.16	75 RE	K81	5	0.179	1,2,3
5.02	88 RA	LB6	1	0.871	1,2,3		5.16	81 TL	LY5	1	0.895	1,2
5.02	50 SN	K83	2	0.436	1,2		5.16	75 RE	K83	5	0.179	1,2
5.03	80 HG	LY6	1	0.873	1,2		5.16	74 W	K82	5	0.179	1,2,3
5.04	38 SR	KA1	1	0.875	1,2,3		5.16	74 W	K84	5	0.179	1
5.04	81 TL	KA2	5	0.175	1,2,3		5.16	67 HO	K82	4	0.224	1
5.04	80 HG	LY2	1	0.875	1,2,3		5.17	78 PT	LY4	1	0.897	1,2
5.04	80 HG	KA1	5	0.175	1		5.17	63 EU	KA1	3	0.299	1,2,3
5.05	53 I	KA2	2	0.436	1,2,3		5.17	80 HG	LY1	1	0.897	1,2,3
5.06	36 KR	K81	1	0.876	1,2,3		5.17	79 AU	LY3	1	0.898	1,2,3
5.06	36 KR	K83	1	0.876	1,2		5.17	83 BI	LB9	1	0.898	1,2
5.06	38 SR	KA2	1	0.876	1,2,3		5.18	84 PC	LB5	1	0.899	1,2
5.06	64 GD	KA2	3	0.293	1,2,3		5.18	79 AU	KA1	5	0.180	1,2,3
5.06	60 ND	K81	3	0.293	1,2,3		5.18	80 HG	KA2	5	0.180	1
5.07	73 TA	KA2	4	0.223	1,2,3		5.19	93 NP	LA2	1	0.901	1
5.07	94 PU	LA2	1	0.880	1		5.20	49 IN	K85	2	0.451	1
5.08	86 RN	LB2	1	0.881	1		5.20	52 TE	KA1	2	0.451	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS											
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
5.20	79 AU	LY6	1	0.903	1,2	5.33	79 AU	KA2	5	0.185	1,2,3
5.21	79 AU	LY2	1	0.904	1,2,3	5.33	74 W	KB3	5	0.185	1,2
5.21	83 BI	LB10	1	0.905	1,2	5.33	35 BR	KB5	1	0.925	1,2
5.21	85 AT	LB2	1	0.905	1	5.33	83 BI	LB5	1	0.926	1,2
5.23	88 RA	LN	1	0.907	1,2,3	5.33	37 RB	KA1	1	0.926	1,2,3
5.23	72 HF	KA2	4	0.227	1,2,3	5.34	62 SM	KA1	3	0.309	1,2,3
5.24	63 EU	KA2	3	0.303	1,2,3	5.34	79 AU	LY1	1	0.927	1,2,3
5.24	84 PO	LB3	1	0.909	1,2,3	5.34	77 IR	LY4	1	0.927	1,2
5.24	49 IN	KB1	2	0.455	1,2,3	5.34	82 PB	LB9	1	0.927	1,2
5.24	49 IN	KB3	2	0.455	1,2	5.35	78 PT	LY3	1	0.928	1,2,3
5.25	92 U	LA1	1	0.911	1,2,3	5.35	66 DY	KB2	4	0.232	1,2,3
5.25	52 TE	KA2	2	0.456	1,2,3	5.35	84 PC	LB2	1	0.929	1,2,3
5.25	59 PR	KB1	3	0.304	1,2,3	5.36	37 RB	KA2	1	0.930	1,2,3
5.27	74 W	KB5	5	0.183	1	5.36	48 CD	KB2	2	0.465	1,2,3
5.27	59 PR	KB3	3	0.305	1,2	5.36	78 PT	KA1	5	0.186	1,2,3
5.28	71 LU	KA1	4	0.229	1,2,3	5.38	35 BR	KB1	1	0.933	1,2,3
5.30	67 HO	KB1	4	0.230	1	5.38	91 PA	LA1	1	0.933	1,2,3
5.30	74 W	KB1	5	0.184	1,2,3	5.38	35 BR	KB3	1	0.933	1,2
5.30	73 TA	KB4	5	0.184	1	5.38	82 PB	LB10	1	0.934	1,2
5.31	35 BR	KB2	1	0.921	1,2,3	5.38	78 PT	LY2	1	0.934	1,2,3
5.31	92 U	LA2	1	0.922	1,2,3	5.38	78 PT	LY6	1	0.934	1,2
5.31	84 PO	LB1	1	0.922	1,2,3	5.39	83 BI	LB7	1	0.935	1,2
5.32	80 HG	LY5	1	0.924	1,2	5.39	71 LU	KA2	4	0.234	1,2,3
5.32	58 CE	KB2	3	0.308	1,2,3	5.41	83 BI	LB3	1	0.939	1,2,3
5.33	73 TA	KB2	5	0.185	1,2,3	5.42	51 SE	KA1	2	0.470	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS						5.43 TO 5.66					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
5.43	62 SM	KA2	3	0.314	1,2,3	5.53	77 IR	LY3	1	0.959	1,2,3
5.44	91 PA	LA2	1	0.945	1,2,3	5.53	57 LA	KB2	3	0.320	1,2,3
5.44	73 TA	KB5	5	0.189	1	5.53	65 TE	KB2	4	0.240	1,2,3
5.46	84 PO	LB4	1	0.947	1,2,3	5.54	82 PB	LB7	1	0.962	1,2
5.46	70 YB	KA1	4	0.237	1,2,3	5.55	61 PM	KA1	3	0.321	1,2,3
5.46	66 DY	KB1	4	0.237	1,2,3	5.55	70 YB	KA2	4	0.241	1,2,3
5.46	58 CE	KB1	3	0.316	1,2,3	5.55	81 TL	LB10	1	0.964	1,2
5.46	58 CE	KB3	3	0.316	1,2	5.56	77 IR	LY2	1	0.955	1,2,3
5.47	73 TA	KB1	5	0.190	1,2,3	5.57	77 IR	LY6	1	0.967	1,2
5.47	78 PT	KA2	5	0.190	1,2,3	5.57	84 PO	LB6	1	0.967	1,2,3
5.47	51 SB	KA2	2	0.475	1,2,3	5.58	90 TH	LA2	1	0.968	1,2,3
5.47	48 CD	KB1	2	0.475	1,2,3	5.58	82 PB	LB3	1	0.969	1,2,3
5.48	83 BI	LB1	1	0.952	1,2,3	5.61	47 AG	KB2	2	0.487	1,2,3
5.48	66 DY	KB3	4	0.238	1,2	5.62	61 PM	KA2	3	0.325	1,2,3
5.48	48 CD	KB3	2	0.476	1,2	5.62	69 TM	KA1	4	0.244	1,2,3
5.49	82 PB	LB5	1	0.953	1,2	5.63	83 BI	LB4	1	0.977	1,2,3
5.50	72 HF	KB2	5	0.191	1,2,3	5.63	57 LA	KB5	3	0.326	1
5.50	73 TA	KB3	5	0.191	1,2	5.65	36 KR	KA1	1	0.980	1,2,3
5.50	83 BI	LB2	1	0.955	1,2,3	5.65	72 HF	KB3	5	0.196	1,2
5.50	77 IR	KA1	5	0.191	1,2,3	5.65	72 HF	KB1	5	0.196	1,2,3
5.51	79 AU	LY5	1	0.956	1,2	5.65	77 IR	KA2	5	0.196	1,2,3
5.51	90 TH	LA1	1	0.956	1,2,3	5.65	89 AC	LA1	1	0.980	1
5.51	81 TL	LB9	1	0.957	1,2	5.65	34 SE	KB2	1	0.980	1,2,3
5.52	78 PT	LY1	1	0.958	1,2,3	5.65	81 TL	LB5	1	0.981	1,2
5.53	76 OS	LY4	1	0.959	1,2	5.66	82 PB	LB1	1	0.982	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS						5.66 TO 5.88					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
5.66	50 SN	KA1	2	0.491	1,2,3	5.74	47 AG	KB3	2	0.498	1,2
5.66	82 PB	LB2	1	0.983	1,2,3	5.74	60 ND	KA1	3	0.332	1,2,3
5.67	65 TB	KB3	4	0.246	1,2	5.74	80 HG	LB10	1	0.996	1,2
5.67	65 TB	KB1	4	0.246	1,2,3	5.75	76 OS	LY2	1	0.998	1,2,3
5.67	34 SE	KB5	1	0.984	1,2	5.76	56 BA	KB2	3	0.333	1,2,3
5.67	36 KR	KA2	1	0.984	1,2,3	5.77	76 OS	LY6	1	1.001	1,2
5.67	57 LA	KB1	3	0.328	1,2,3	5.77	81 TL	LB3	1	1.001	1,2,3
5.67	71 LU	KB2	5	0.197	1,2,3	5.79	88 RA	LA1	1	1.005	1,2,3
5.67	76 OS	KA1	5	0.197	1,2,3	5.80	82 PB	LB4	1	1.007	1,2,3
5.68	47 AG	KB5	2	0.493	1	5.81	68 ER	KA1	4	0.252	1,2,3
5.68	80 HG	LB9	1	0.986	1,2	5.81	60 ND	KA2	3	0.336	1,2,3
5.69	57 LA	KB3	3	0.329	1,2	5.82	71 LU	KB1	5	0.202	1,2,3
5.69	78 PT	LY5	1	0.988	1,2	5.82	80 HG	LB5	1	1.010	1,2
5.70	81 TL	LB7	1	0.990	1,2	5.82	76 OS	KA2	5	0.202	1,2,3
5.70	50 SN	KA2	2	0.495	1,2,3	5.82	81 TL	LB2	1	1.010	1,2,3
5.71	77 IR	LY1	1	0.991	1,2,3	5.84	56 BA	KB5	3	0.338	1
5.72	75 RE	LY4	1	0.992	1,2	5.85	75 RE	KA1	5	0.203	1,2,3
5.72	64 GD	KB2	4	0.248	1,2,3	5.85	71 LU	KB3	5	0.203	1,2
5.72	34 SE	KB1	1	0.992	1,2,3	5.85	81 TL	LB1	1	1.015	1,2,3
5.72	76 OS	LY3	1	0.992	1,2,3	5.85	64 GD	KB1	4	0.254	1,2,3
5.72	89 AC	LA2	1	0.992	1	5.85	88 RA	LA2	1	1.016	1,2,3
5.72	34 SE	KB3	1	0.993	1,2	5.87	80 HG	LB7	1	1.019	1,2
5.72	83 BI	LB6	1	0.993	1,2,3	5.88	70 YB	KB2	5	0.204	1,2,3
5.73	47 AG	KB1	2	0.497	1,2,3	5.88	64 GD	KB3	4	0.255	1,2
5.74	69 TM	KA2	4	0.249	1,2,3	5.88	46 PC	KB2	2	0.510	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS						5.88 TO 6.11					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
5.88	82 PB	LB6	1	1.021	1,2,3	5.99	35 BR	KA1	1	1.040	1,2,3
5.88	79 AU	LB9	1	1.021	1,2	6.00	46 PC	KB3	2	0.521	1,2
5.89	77 IR	LY5	1	1.022	1,2	6.00	87 FR	LA2	1	1.042	1
5.89	56 BA	KB1	3	0.341	1,2,3	6.00	46 PC	KB1	2	0.521	1,2,3
5.89	56 BA	KB3	3	0.341	1,2	6.02	35 BR	KA2	1	1.044	1,2,3
5.90	49 IN	KA1	2	0.512	1,2,3	6.02	67 HC	KA1	4	0.261	1,2,3
5.91	76 OS	LY1	1	1.025	1,2,3	6.02	74 W	KA1	5	0.209	1,2,3
5.91	75 RE	LY3	1	1.026	1,2,3	6.02	33 AS	KB2	1	1.045	1,2,3
5.92	74 W	LY4	1	1.028	1,2	6.02	70 YE	KB3	5	0.209	1,2
5.92	68 ER	KA2	4	0.257	1,2,3	6.02	70 YE	KB1	5	0.209	1,2,3
5.92	79 AU	LB10	1	1.028	1,2	6.03	59 PR	KA2	3	0.349	1,2,3
5.92	63 EU	KB2	4	0.257	1,2,3	6.04	80 HG	LB1	1	1.049	1,2,3
5.93	87 FR	LA1	1	1.033	1,2,3	6.04	33 AS	KB5	1	1.049	1,2
5.93	98 CF	LY1	2	0.515	1	6.05	81 TL	LB6	1	1.050	1,2,3
5.95	75 RE	LY2	1	1.032	1,2,3	6.05	69 TP	KB2	5	0.210	1
5.95	59 PR	KA1	3	0.344	1,2,3	6.05	79 AU	LB7	1	1.050	1,2
5.96	47 IN	KA2	2	0.517	1,2,3	6.07	78 PT	LB9	1	1.054	1,2
5.96	45 PD	KB5	2	0.517	1	6.08	63 EU	KB3	4	0.264	1,2
5.96	87 HG	LB3	1	1.034	1,2,3	6.08	63 EU	KB1	4	0.264	1,2,3
5.97	75 RE	LY6	1	1.037	1,2	6.09	33 AS	KB1	1	1.057	1,2,3
5.98	55 CS	KB2	3	0.346	1,2,3	6.09	86 RN	LA1	1	1.057	1
5.99	81 TL	LB4	1	1.039	1,2,3	6.09	76 OS	LY5	1	1.057	1,2
5.99	80 HG	LB2	1	1.040	1,2,3	6.10	33 AS	KB3	1	1.058	1,2
5.99	75 RE	KA2	5	0.208	1,2,3	6.10	83 BI	LN	1	1.059	1,2,3
5.99	79 AU	LB5	1	1.040	1,2	6.11	97 BK	LY1	2	0.530	1

MICA CRYSTAL, D# 9.94E ANGSTROMS							6.11 TO 6.36						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
6.11	75 RE	LY1	1	1.061	1,2,3		6.22	66 DY	KA1	4	0.270	1,2,3	
6.12	55 CS	KB1	3	0.354	1,2,3		6.22	54 XE	KB2	3	0.360	1,2,3	
6.12	78 PT	LB10	1	1.062	1,2		6.23	78 PT	LB7	1	1.082	1,2	
6.12	74 W	LY3	1	1.062	1,2,3		6.23	45 RH	KB5	2	0.541	1	
6.13	62 SM	KB2	4	0.266	1,2,3		6.25	79 AU	LB1	1	1.084	1,2,3	
6.13	67 HO	KA2	4	0.266	1,2,3		6.25	85 AT	LA1	1	1.085	1	
6.14	73 TA	LY4	1	1.065	1,2		6.25	68 ER	KB2	5	0.217	1,2,3	
6.14	55 CS	KB3	3	0.355	1,2		6.26	58 CE	KA2	3	0.362	1,2,3	
6.15	92 U	LL	1	1.067	2,3		6.28	77 IR	LB9	1	1.090	1,2	
6.15	74 W	LY2	1	1.068	1,2,3		6.29	91 PA	LL	1	1.091	1,2,3	
6.15	79 AU	LB3	1	1.068	1,2,3		6.29	82 PB	LN	1	1.092	1,2,3	
6.16	86 RN	LA2	1	1.069	1		6.29	45 RH	KB3	2	0.546	1,2	
6.17	45 RH	KB2	2	0.535	1,2,3		6.29	62 SM	KB1	4	0.273	1,2,3	
6.17	79 AU	LB2	1	1.070	1,2,3		6.29	45 RH	KB1	2	0.546	1,2,3	
6.17	74 W	KA2	5	0.214	1,2,3		6.29	96 CP	LY1	2	0.546	1	
6.17	48 CD	KA1	2	0.535	1,2,3		6.30	75 RE	LY5	1	1.094	1,2	
6.17	58 CE	KA1	3	0.357	1,2,3		6.32	66 DY	KA2	4	0.274	1,2,3	
6.18	78 PT	LB5	1	1.072	1,2		6.32	62 SP	KB3	4	0.274	1,2	
6.18	80 HG	LB4	1	1.072	1,2,3		6.32	85 AT	LA2	1	1.097	1	
6.19	74 W	LY6	1	1.074	1,2		6.32	77 IR	LB10	1	1.097	1,2	
6.19	73 TA	KA1	5	0.215	1,2,3		6.33	73 TA	LY3	1	1.099	1,2,3	
6.19	69 TM	KB1	5	0.215	1,2,3		6.33	74 W	LY1	1	1.099	1,2,3	
6.21	48 CD	KA2	2	0.539	1,2,3		6.34	73 TA	KA2	5	0.220	1,2,3	
6.22	80 HG	LB6	1	1.080	1,2,3		6.35	78 PT	LB2	1	1.102	1,2,3	
6.22	69 TM	KB3	5	0.216	1,2		6.36	72 HF	LY4	1	1.103	1,2	

MICA CRYSTAL, D# 9.948 ANGSTROMS						6.36 TC 6.59					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
6.36	54 XE	KB1	3	0.368	1,2,3	6.48	57 LA	KA2	3	0.375	1,2,3
6.36	78 PT	LB3	1	1.104	1,2,3	6.48	53 I	KB2	3	0.375	1,2,3
6.36	61 PM	KB2	4	0.276	1	6.49	76 OS	LB9	1	1.126	1,2
6.37	34 SE	KA1	1	1.105	1,2,3	6.49	84 PC	LA2	1	1.126	1,2,3
6.37	73 TA	LY2	1	1.105	1,2,3	6.50	81 TL	LN	1	1.128	1,2,3
6.37	77 IR	LB5	1	1.106	1,2	6.50	47 AG	KA2	2	0.564	1,2,3
6.38	79 AU	LB4	1	1.107	1,2,3	6.50	61 PM	KB1	4	0.282	1,2,3
6.39	34 SE	KA2	1	1.109	1,2,3	6.51	32 GE	KB1	1	1.129	1,2,3
6.40	72 HF	KA1	5	0.222	1,2,3	6.51	32 GE	KB3	1	1.129	1,2
6.40	79 AU	LB6	1	1.111	1,2,3	6.52	74 W	LY5	1	1.132	1,2
6.41	57 LA	KA1	3	0.371	1,2,3	6.52	61 PM	KB3	4	0.283	2
6.42	73 TA	LY6	1	1.114	1,2	6.52	65 TE	KA2	4	0.283	1,2,3
6.42	84 PC	LA1	1	1.114	1,2,3	6.53	76 OS	LB10	1	1.133	1,2
6.42	68 ER	KB3	5	0.223	1,2	6.54	72 HF	KA2	5	0.227	1,2,3
6.42	90 TH	LL	1	1.115	1,2,3	6.54	77 IR	LB2	1	1.135	1,2,3
6.42	77 IR	LB7	1	1.115	1,2	6.55	44 RU	KB5	2	0.568	1
6.42	68 ER	KB1	5	0.223	1,2,3	6.56	73 TA	LY1	1	1.138	1,2,3
6.43	65 TB	KA1	4	0.279	1,2,3	6.56	72 HF	LY3	1	1.138	1,2,3
6.44	32 GE	KB2	1	1.117	1,2,3	6.57	76 OS	LB5	1	1.140	1,2
6.44	47 AG	KA1	2	0.559	1,2,3	6.57	77 IR	LB3	1	1.141	1,2,3
6.45	32 GE	KB5	1	1.119	1,2	6.58	78 PT	LB4	1	1.142	1,2,3
6.45	78 PT	LB1	1	1.120	1,2,3	6.59	71 LU	LY4	1	1.143	1
6.45	67 HO	KB2	5	0.224	1	6.59	72 HF	LY2	1	1.144	1,2,3
6.48	95 AM	LY1	2	0.562	1,3	6.59	83 BI	LA1	1	1.144	1,2,3
6.48	44 RU	KB2	2	0.562	1,2,3	6.59	78 PT	LB6	1	1.144	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS							6.59 TC 6.86						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
6.59	44 RU	KB1	2	0.572	1,2,3		6.76	52 TE	KB2	3	0.391	1,2,3	
6.59	60 ND	KB2	4	0.286	1,2,3		6.76	73 TA	LY5	1	1.173	1,2	
6.60	71 LU	KA1	5	0.229	1,2,3		6.77	82 PB	LA1	1	1.175	1,2,3	
6.60	44 RU	KB3	2	0.573	1,2		6.78	60 ND	KB3	4	0.294	1,2	
6.62	76 OS	LB7	1	1.149	1,2		6.78	33 AS	KA1	1	1.176	1,2,3	
6.63	67 HO	KB1	5	0.230	1		6.78	75 RE	LB5	1	1.177	1,2	
6.64	53 I	KB1	3	0.384	1,2,3		6.79	77 IR	LB6	1	1.178	1,2,3	
6.64	64 GD	KA1	4	0.288	1,2,3		6.79	71 LU	LY3	1	1.179	1,2,3	
6.66	53 I	KB3	3	0.385	1,2		6.79	72 HF	LY1	1	1.179	1,2,3	
6.66	56 BA	KA1	3	0.385	1,2,3		6.80	77 IR	LB4	1	1.180	1,2,3	
6.66	72 HF	LY6	1	1.155	1,2		6.80	43 TC	KB2	2	0.590	1	
6.66	83 BI	LA2	1	1.155	1,2,3		6.80	76 CS	LB3	1	1.180	1,2,3	
6.67	77 IR	LB1	1	1.158	1,2,3		6.80	33 AS	KA2	1	1.180	1,2,3	
6.67	94 PU	LY1	2	0.579	1		6.80	46 PC	KA2	2	0.590	1,2,3	
6.68	66 DY	KB2	5	0.232	1,2,3		6.80	43 TC	KB4	2	0.590	1	
6.71	80 HG	LN	1	1.164	1,2,3		6.83	70 YB	KA1	5	0.237	1,2,3	
6.71	75 RE	LB9	1	1.165	1,2		6.83	71 LU	LY2	1	1.185	1,2,3	
6.72	88 RA	LL	1	1.167	1,2,3		6.83	66 DY	KB1	5	0.237	1,2,3	
6.74	76 OS	LB2	1	1.170	1,2,3		6.83	70 YB	LY4	1	1.185	1,2	
6.74	71 LU	KA2	5	0.234	1,2,3		6.83	82 PB	LA2	1	1.186	1,2,3	
6.74	46 PD	KA1	2	0.585	1,2,3		6.83	75 RE	LB7	1	1.186	1,2	
6.74	56 BA	KA2	3	0.390	1,2,3		6.85	91 PA	LY4	2	0.594	1,2	
6.75	64 GC	KA2	4	0.293	1,2,3		6.85	59 PR	KB2	4	0.297	1,2,3	
6.75	60 ND	KB1	4	0.293	1,2,3		6.86	92 U	LY6	2	0.595	1,2	
6.75	75 RE	LB10	1	1.172	1,2		6.86	66 DY	KB3	5	0.238	1,2	

MICA CRYSTAL, D# 9.94E ANGSTROMS							6.88 TC 7.12					
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF
6.88	93 4P	LY1	2	0.597	1,2,3		7.00	72 HF	LY5	1	1.215	1,2
6.89	92 J	LY3	2	0.598	1,2,3		7.00	74 W	LB5	1	1.215	1,2
6.89	63 EU	KA1	4	0.299	1,2,3		7.00	55 CS	KA2	3	0.425	1,2,3
6.89	31 GA	KB2	1	1.196	1,2,3		7.01	59 PR	KB1	4	0.334	1,2,3
6.90	31 GA	KB5	1	1.197	1,2		7.02	76 OS	LB4	1	1.218	1,2,3
6.90	76 OS	LB1	1	1.197	1,2,3		7.02	81 TL	LA2	1	1.219	1,2,3
6.90	71 LU	LY6	1	1.198	1,2		7.03	69 TM	KA1	5	0.244	1,2,3
6.92	52 TE	KB1	3	0.400	1,2,3		7.03	59 PR	KB3	4	0.305	1,2
6.92	55 CS	KA1	3	0.400	1,2,3		7.03	75 RE	LB3	1	1.220	1,2,3
6.92	65 TB	KB2	5	0.240	1,2,3		7.04	71 LU	LY1	1	1.222	1,2,3
6.93	43 TC	KB5	2	0.60	1,2		7.04	75 YB	LY3	1	1.222	1,2,3
6.93	52 TE	KB3	3	0.401	1,2		7.04	90 TH	LY4	2	0.611	1,2
6.93	75 AU	LN	1	1.203	1,2,3		7.05	74 W	LB7	1	1.224	1,2
6.94	74 W	LB9	1	1.204	1,2		7.05	51 SB	KB2	3	0.408	1,2,3
6.94	45 TC	KB1	2	0.602	1,2,3		7.07	91 PA	LY6	2	0.613	1,2
6.94	75 YB	KA2	5	0.241	1,2,3		7.07	45 RH	KA1	2	0.613	1,2,3
6.95	93 CF	LB1	2	0.603	1		7.08	70 YB	LY2	1	1.229	1,2,3
6.96	75 RE	LB2	1	1.207	1,2,3		7.08	69 TM	LY4	1	1.229	1
6.96	81 TL	LA1	1	1.207	1,2,3		7.09	65 TB	KB3	5	0.246	1,2
6.96	31 GA	KB1	1	1.208	1,2,3		7.09	92 U	LY1	2	0.615	1,2,3
6.96	31 GA	KB3	1	1.208	1,2		7.09	65 TB	KB1	5	0.246	1,2,3
6.97	52 U	LY2	2	0.605	1,2,3		7.10	58 CE	KB2	4	0.308	1,2,3
6.98	74 W	LB10	1	1.212	1,2		7.11	91 PA	LY3	2	0.617	1,2,3
6.98	63 EU	KA2	4	0.303	1,2,3		7.12	45 RH	KA2	2	0.618	1,2,3
6.99	76 OS	LB6	1	1.213	1,2,3		7.12	62 SM	KA1	4	0.309	1,2,3

MICA CRYSTAL, DH 9.94E ANGSTROMS						7.14 TC 7.40					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
7.14	75 RE	LB1	1	1.239	1,2,3	7.26	71 LU	LY5	1	1.260	1,2
7.15	64 GD	KB2	5	0.248	1,2,3	7.26	54 XE	KA2	3	0.420	1,2,3
7.15	42 MC	KB4	2	0.620	2	7.26	68 ER	KA1	5	0.252	1,2,3
7.15	80 HG	LA1	1	1.241	1,2,3	7.28	74 W	LB3	1	1.263	1,2,3
7.16	51 SB	KB5	3	0.414	1	7.28	58 CE	KB3	4	0.316	1,2
7.16	42 MO	KB2	2	0.621	1,2,3	7.28	58 CE	KB1	4	0.316	1,2,3
7.16	97 BK	LB1	2	0.621	1	7.28	90 TH	LY6	2	0.632	1,2
7.16	78 PT	LN	1	1.243	1,2,3	7.28	42 MC	KB1	2	0.632	1,2,3
7.16	70 YB	LY6	1	1.243	1,2	7.28	73 TA	LB7	1	1.264	1,2
7.17	69 TM	KA2	5	0.249	1,2,3	7.30	42 MC	KB3	2	0.633	1,2
7.17	74 W	LB2	1	1.245	1,2,3	7.31	70 YE	LY1	1	1.268	1,2,3
7.18	73 TA	LB9	1	1.246	1,2	7.31	91 PA	LY1	2	0.634	1,2,3
7.19	54 XE	KA1	3	0.416	1,2,3	7.31	69 TM	LY3	1	1.268	1,2,3
7.19	91 PA	LY2	2	0.624	1,2,3	7.32	64 GD	KB1	5	0.254	1,2,3
7.21	51 SB	KB1	3	0.417	1,2,3	7.32	92 U	LY5	2	0.635	1,2
7.21	75 RE	LB6	1	1.251	1,2,3	7.33	90 TH	LY3	2	0.636	1,2,3
7.22	80 HG	LA2	1	1.253	1,2,3	7.34	69 TM	LY2	1	1.274	1,2,3
7.23	42 MO	KB5	2	0.627	1	7.35	64 GD	KB3	5	0.255	1,2
7.23	73 TA	LB10	1	1.254	1,2	7.35	68 ER	LY4	1	1.276	1,2
7.23	51 SB	KB3	3	0.418	1,2	7.35	79 AU	LA1	1	1.276	1,3
7.23	32 GE	KA1	1	1.254	1,2,3	7.37	50 SN	KB2	3	0.426	1,2,3
7.23	73 TA	LR5	1	1.255	1,2	7.37	96 CM	LB1	2	0.639	1
7.24	62 SM	KA2	4	0.314	1,2,3	7.38	57 LA	KB2	4	0.320	1,2,3
7.25	32 GE	KA2	1	1.258	1,2,3	7.39	74 W	LB1	1	1.282	1,2,3
7.26	75 RE	LB4	1	1.259	1,2,3	7.40	30 ZN	KB2	1	1.284	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS							7.40 TO 7.65						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
7.40	90 TH	LY2	2	0.642	1,2,3		7.53	90 TH	LY1	2	0.653	1,2,3	
7.40	61 PM	KA1	4	0.321	1,2,3		7.53	98 CF	LB2	2	0.653	1	
7.40	73 TA	LB2	1	1.284	1,2,3		7.53	72 HF	LB7	1	1.306	1,2	
7.40	77 IR	LN	1	1.284	1,2,3		7.53	73 TA	LB3	1	1.307	1,2,3	
7.41	63 EU	KB2	5	0.257	1,2,3		7.54	41 NE	KB2	2	0.654	1,2,3	
7.41	30 ZN	KB5	1	1.285	1,2		7.54	50 SN	KB3	3	0.436	1,2	
7.41	6E ER	KA2	5	0.257	1,2,3		7.55	91 PA	LY5	2	0.655	1,2	
7.41	44 RU	KA1	2	0.643	1,2,3		7.56	57 LA	KB1	4	0.328	1,2,3	
7.42	75 AU	LA2	1	1.288	1,2,3		7.57	78 PT	LA1	1	1.313	1,2,3	
7.43	6 TH	LY6	1	1.290	1		7.57	53 I	KA2	3	0.438	1,2,3	
7.43	7 W	LB6	1	1.290	1,2,3		7.58	68 ER	LY3	1	1.315	1,2,3	
7.43	72 HF	LB9	1	1.290	1,2		7.58	69 TM	LY1	1	1.315	1,2,3	
7.46	44 RU	KA2	2	0.647	1,2,3		7.58	57 LA	KB3	4	0.329	1,2	
7.46	30 ZN	KB1	1	1.295	1,2,3		7.58	83 BI	LL	1	1.316	1,2,3	
7.47	50 SN	KB5	3	0.432	1		7.58	95 AM	LB1	2	0.658	1,3	
7.43	72 HF	LB5	1	1.298	1,2		7.61	63 EU	KB1	5	0.264	1,2,3	
7.48	72 HF	LB10	1	1.298	1,2		7.61	41 NE	KB5	2	0.660	1	
7.48	38 RA	LY4	2	0.649	1,2		7.61	63 EU	KB3	5	0.264	1,2	
7.49	53 I	KA1	3	0.433	1,2,3		7.61	68 ER	LY2	1	1.321	1,2,3	
7.49	51 PM	KA2	4	0.325	1,2,3		7.62	67 HC	LY4	1	1.322	1,2	
7.50	74 W	LB4	1	1.302	1,2,3		7.63	78 PT	LA2	1	1.324	1,2,3	
7.52	57 LA	KB5	4	0.326	1		7.64	72 HF	LB2	1	1.326	1,2,3	
7.52	50 SN	KB1	3	0.435	1,2,3		7.65	73 TA	LB1	1	1.327	1,2,3	
7.52	67 HO	KA1	5	0.261	1,2,3		7.65	60 ND	KA1	4	0.332	1,2,3	
7.53	70 YB	LY5	1	1.306	1,2		7.65	76 OS	LN	1	1.328	1,2,3	

MICA CRYSTAL, D# 9.94E ANGSTROMS						7.67 TO 7.92					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
7.67	67 HC	KA2	5	0.266	1,2,3	7.79	56 BA	KB5	4	0.338	1
7.67	62 SM	KB2	5	0.266	1,2,3	7.80	49 IN	KB5	3	0.451	1
7.67	73 TA	LB6	1	1.331	1,2,3	7.80	72 HF	LB3	1	1.353	1,2,3
7.68	56 BA	KB2	4	0.333	1,2,3	7.80	52 TE	KA1	3	0.451	1,2,3
7.68	41 NB	KB1	2	0.666	1,2,3	7.81	69 TM	LY5	1	1.355	1,2
7.68	41 NB	KB3	2	0.666	1,2	7.82	94 PU	LB1	2	0.678	1
7.69	49 IN	KB2	3	0.445	1,2,3	7.85	77 IR	LA2	1	1.362	1,2,3
7.70	71 LU	LB9	1	1.336	1,2	7.85	92 U	LB9	2	0.681	1,2
7.71	97 BK	LB2	2	0.669	1	7.86	56 BA	KB1	4	0.341	1,2,3
7.72	31 GA	KA1	1	1.340	1,2,3	7.86	56 BA	KB3	4	0.341	1,2
7.73	71 LU	LB5	1	1.342	1,2	7.86	67 HC	LY3	1	1.364	1,2,3
7.74	71 LU	LB10	1	1.343	1,2	7.86	68 ER	LY1	1	1.364	1,2,3
7.75	31 GA	KA2	1	1.344	1,2,3	7.86	88 RA	LY2	2	0.682	1,2,3
7.75	65 NC	KA2	4	0.336	1,2,3	7.87	49 IN	KB3	3	0.455	1,2
7.76	43 TC	KA1	2	0.673	2,3	7.87	49 IN	KB1	3	0.455	1,2,3
7.76	88 RA	LY6	2	0.673	1,2	7.87	62 SM	KB1	5	0.273	1,2,3
7.76	73 TA	LB4	1	1.346	1,2,3	7.88	52 TE	KA2	3	0.456	1,2,3
7.77	89 AC	LY1	2	0.674	1	7.90	67 HC	LY2	1	1.370	1,2,3
7.78	71 LU	LB7	1	1.349	1,2	7.90	62 SM	KB3	5	0.274	1,2
7.78	66 DY	KA1	5	0.270	1,2,3	7.90	96 CM	LB2	2	0.685	1
7.78	88 RA	LY3	2	0.675	1,2,3	7.90	66 DY	KA2	5	0.274	1,2,3
7.78	82 PB	LL	1	1.350	1,2,3	7.90	71 LU	LB2	1	1.370	1,2,3
7.78	90 TH	LY5	2	0.675	1,2	7.91	75 RE	LN	1	1.373	1,2,3
7.79	77 IR	LA1	1	1.351	1,2,3	7.92	66 DY	LY4	1	1.374	1,2
7.79	43 TC	KA2	2	0.676	2,3	7.92	72 HF	LB1	1	1.374	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS						7.92 TO 8.22					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
7.92	92 U	LB10	2	0.687	1,2	8.08	76 CS	LA2	1	1.402	1,2,3
7.92	72 HF	LB6	1	1.374	1,2,3	8.08	91 PA	LB9	2	0.701	1,2
7.93	59 PR	KA1	4	0.344	1,2,3	8.09	40 ZR	KB3	2	0.702	1,2
7.95	43 ZR	KB2	2	0.690	1,2,3	8.09	40 ZR	KB1	2	0.702	1,2,3
7.95	61 PM	KB2	5	0.276	1	8.10	68 ER	LY5	1	1.406	1,2
7.96	29 CU	KB2	1	1.381	2,3	8.13	61 PM	KB1	5	0.282	1,2,3
7.97	25 CU	KB5	1	1.382	2	8.13	51 SB	KA1	3	0.470	1,2,3
7.98	55 CS	KB2	4	0.346	1,2,3	8.16	61 PM	KB3	5	0.283	2
7.98	70 YB	LB9	1	1.384	1,2	8.16	65 TB	KA2	5	0.283	1,2,3
7.98	81 TL	LL	1	1.385	1,2,3	8.16	70 YB	LB2	1	1.415	1,2,3
7.99	70 YB	LB5	1	1.337	1,2	8.16	91 PA	LB10	2	0.708	1,2
8.01	88 RA	LY1	2	0.695	1,2,3	8.16	55 CS	KB1	4	0.354	1,2,3
8.02	76 OS	LA1	1	1.391	1,2,3	8.17	67 HC	LY1	1	1.417	1,2,3
8.02	70 YB	LB10	1	1.391	1,2	8.17	66 DY	LY3	1	1.417	1,2,3
8.02	72 HF	LB4	1	1.392	1,2,3	8.17	42 MC	KA1	2	0.709	1,2,3
8.02	29 CU	KB1	1	1.392	1,2,3	8.18	71 LU	LB6	1	1.419	1,2,3
8.02	40 ZR	KB5	2	0.696	1	8.18	55 CS	KB3	4	0.355	1,2
8.03	29 CU	KB3	1	1.393	1,2	8.18	92 U	LB3	2	0.710	1,2,3
8.04	55 TB	KA1	5	0.279	1,2,3	8.19	74 W	LN	1	1.421	1,2,3
8.04	48 CD	KB2	3	0.465	1,2,3	8.20	80 HG	LL	1	1.422	1,2,3
8.04	70 YB	LB7	1	1.395	1,2	8.20	66 DY	LY2	1	1.423	1,2,3
8.05	59 PR	KA2	4	0.349	1,2,3	8.21	71 LU	LB1	1	1.424	1,2,3
8.05	93 NP	LB1	2	0.698	1,2,3	8.21	51 SB	KA2	3	0.475	1,2,3
8.08	71 LU	LB3	1	1.401	1,2,3	8.21	48 CD	KB1	3	0.475	1,2,3
8.08	95 AM	LB2	2	0.701	1,3	8.22	42 MC	KA2	2	0.713	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS						8.23 TC 8.55					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
8.23	65 TB	LY4	1	1.427	1,2	8.43	67 HC	LY5	1	1.462	1,2
8.23	48 CD	KB3	3	0.476	1,2	8.43	69 TM	LB2	1	1.463	1,2,3
8.23	58 CE	KA1	4	0.357	1,2,3	8.44	91 PA	LB3	2	0.732	1,2,3
8.24	60 NC	KB2	5	0.286	1,2,3	8.44	64 GC	KA2	5	0.293	1,2,3
8.25	87 FR	LY1	2	0.716	1,2,3	8.44	60 NC	KB1	5	0.293	1,2,3
8.26	75 RE	LA1	1	1.433	1,2,3	8.45	70 YB	LB6	1	1.466	1,2,3
8.27	88 RA	LY5	2	0.717	1,2	8.46	39 Y	KB5	2	0.734	1
8.27	30 ZN	KA1	1	1.435	1,2,3	8.47	60 ND	KB3	5	0.294	1,2
8.28	94 PU	LB2	2	0.718	1	8.48	73 TA	LN	1	1.471	1,2,3
8.29	30 ZN	KA2	1	1.439	1,2,3	8.48	65 TB	LY3	1	1.471	1,2,3
8.30	92 U	LB1	2	0.720	1,2,3	8.49	92 U	LB7	2	0.736	1,2
8.30	71 LU	LB4	1	1.440	1,2,3	8.49	93 NP	LB2	2	0.736	1,2,3
8.30	54 XE	KB2	4	0.360	1,2,3	8.49	54 XE	KB1	4	0.368	1,2,3
8.30	64 GC	KA1	5	0.288	1,2,3	8.49	50 SN	KA1	3	0.491	1,2,3
8.31	69 TM	LB10	1	1.441	1	8.49	66 DY	LY1	1	1.473	1,2,3
8.32	75 RE	LA2	1	1.444	1,2,3	8.51	70 YB	LB1	1	1.476	1,2,3
8.34	90 TH	LB9	2	0.723	1,2	8.51	74 W	LA1	1	1.476	1,2,3
8.35	58 CE	KA2	4	0.362	1,2,3	8.51	65 TB	LY2	1	1.477	1,2,3
8.37	92 U	LB5	2	0.726	1,2	8.52	86 RN	LY1	2	0.739	1
8.37	70 YB	LB3	1	1.452	1,2,3	8.52	71 LU	LN	1	1.478	1,2
8.38	39 Y	KB4	2	0.727	2	8.53	47 AG	KB5	3	0.493	1
8.40	39 Y	KB2	2	0.729	1,2,3	8.54	39 Y	KB1	2	0.741	1,2,3
8.42	79 AU	LL	1	1.460	1,2,3	8.54	39 Y	KB3	2	0.741	1,2
8.42	90 TH	LB10	2	0.730	1,2	8.55	57 LA	KA1	4	0.371	1,2,3
8.42	47 AG	KB2	3	0.487	1,2,3	8.55	91 PA	LB1	2	0.742	1,2,3

MICA CRYSTAL, DH 9.948 ANGSTROMS						8.56 TO 8.88					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
8.56	68 ER	LB9	1	1.485	1,2	8.73	68 ER	LB2	1	1.514	1,2,3
8.56	64 GD	LY4	1	1.485	1,2	8.73	63 EU	KA2	5	0.303	1,2,3
8.56	50 SN	KA2	3	0.495	1,2,3	8.73	69 TM	LB6	1	1.515	1,2,3
8.56	59 PR	KB2	5	0.297	1,2,3	8.75	66 DY	LY5	1	1.518	1,2
8.57	74 W	LA2	1	1.487	1,2,3	8.76	59 PR	KB1	5	0.304	1,2,3
8.58	28 NI	KB5	1	1.489	1,2	8.77	73 TA	LA1	1	1.522	1,2,3
8.58	28 NI	KB2	1	1.489	1,2,3	8.77	83 BI	LY4	2	0.761	1,2
8.59	91 PA	LB5	2	0.745	1,2	8.78	72 HF	LN	1	1.523	1,2,3
8.60	47 AG	KB1	3	0.497	1,2,3	8.79	59 PR	KB3	5	0.305	1,2
8.60	70 YB	LB4	1	1.491	1,2,3	8.80	85 AT	LY1	2	0.763	1
8.60	41 NB	KA1	2	0.745	1,2,3	8.81	84 PC	LY3	2	0.764	1,2,3
8.61	47 AG	KB3	3	0.498	1,2	8.81	84 PC	LY6	2	0.764	1,2
8.61	68 ER	LB7	1	1.494	1,2	8.81	64 GD	LY3	1	1.529	1,2,3
8.61	63 ER	LB10	1	1.494	1,2	8.82	69 TM	LB1	1	1.530	1,2,3
8.62	63 EU	KA1	5	0.299	1,2,3	8.82	46 PD	KB2	3	0.510	1,2,3
8.62	92 U	LB4	2	0.748	1,2,3	8.82	65 TB	LY1	1	1.530	1,2,3
8.64	78 PT	LL	1	1.499	1,2,3	8.82	90 TH	LB1	2	0.765	1,2,3
8.65	53 I	KB2	4	0.375	1,2,3	8.82	90 TH	LB5	2	0.765	1,2
8.65	41 NB	KA2	2	0.750	1,2,3	8.84	73 TA	LA2	1	1.533	1,2,3
8.65	57 LA	KA2	4	0.375	1,2,3	8.84	64 GD	LY2	1	1.534	1,2,3
8.65	28 NI	KB1	1	1.530	1,2,3	8.85	49 IN	KA1	3	0.512	1,2,3
8.68	69 TM	LB3	1	1.525	1,2,3	8.85	53 I	KB1	4	0.384	1,2,3
8.70	91 PA	LB7	2	0.755	1,2	8.87	88 RA	LB9	2	0.769	1,2
8.70	90 TH	LB3	2	0.755	1,2,3	8.88	91 PA	LB4	2	0.770	1,2,3
8.70	92 U	LB2	2	0.755	1,2,3	8.88	56 BA	KA1	4	0.385	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS							8.88 TO 9.18					
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF
8.88	53 I	KB3	4	0.385	1,2		9.03	67 HC	LB2	1	1.567	1,2,3
8.88	58 CE	KB2	5	0.308	1,2,3		9.05	72 HF	LA1	1	1.569	1,2,3
8.88	77 IR	LL	1	1.541	1,2,3		9.05	62 SM	KA2	5	0.314	1,2,3
8.88	29 CU	KA1	1	1.541	1,2,3		9.06	82 PB	LY4	2	0.786	1
8.89	38 SR	KB2	2	0.771	1,2,3		9.06	40 ZR	KA1	2	0.786	1,2,3
8.90	69 TM	LB4	1	1.544	1,2,3		9.07	84 PC	LY1	2	0.787	1,2,3
8.90	29 CU	KA2	1	1.544	1,2,3		9.09	92 U	LB6	2	0.788	1,2,3
8.90	63 EU	LY4	1	1.544	1,2		9.09	65 TB	LB5	1	1.577	2
8.91	98 CF	LY1	3	0.515	1		9.09	65 TB	LY5	1	1.577	1
8.91	62 SM	KA1	5	0.309	1,2,3		9.10	89 AC	LB1	2	0.789	1
8.92	91 PA	LB2	2	0.774	1,2,3		9.10	83 BI	LY3	2	0.789	1,2,3
8.92	90 TH	LB7	2	0.774	1,2		9.11	58 CE	KB1	5	0.316	1,2,3
8.93	67 HO	LB10	1	1.549	1		9.11	83 BI	LY6	2	0.790	1,2
8.94	88 RA	LB10	2	0.775	1,2		9.11	58 CE	KB3	5	0.316	1,2
8.94	38 SR	KB5	2	0.775	1		9.11	40 ZR	KA2	2	0.790	1,2,3
8.94	46 PD	KB5	3	0.517	1		9.11	72 HF	LA2	1	1.580	1,2,3
8.94	49 IN	KA2	3	0.517	1,2,3		9.13	98 CF	LA1	2	0.792	1
8.99	56 BA	KA2	4	0.390	1,2,3		9.14	76 OS	LL	1	1.585	1,2,3
9.00	68 ER	LB3	1	1.561	1,2,3		9.14	90 TH	LB4	2	0.793	1,2,3
9.01	46 PD	KB1	3	0.521	1,2,3		9.15	68 ER	LB1	1	1.587	1,2,3
9.01	46 PD	KB3	3	0.521	1,2		9.16	90 TH	LB2	2	0.794	1,2,3
9.02	52 TE	KB2	4	0.391	1,2,3		9.17	97 BK	LY1	3	0.530	1
9.03	38 SR	KB1	2	0.783	1,2,3		9.17	63 EU	LY3	1	1.591	1,2,3
9.03	38 SR	KB3	2	0.783	1,2		9.18	83 BI	LY2	2	0.796	1,2,3
9.03	68 ER	LB6	1	1.567	1,2,3		9.18	64 GD	LY1	1	1.592	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS						9.21 TO 9.48					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
9.21	63 EU	LY2	1	1.597	1,2,3	9.35	67 HC	LB6	1	1.622	1,2,3
9.22	66 DY	LB7	1	1.599	1,2	9.36	45 RH	KB5	3	0.541	1
9.22	57 LA	KB2	5	0.320	1,2,3	9.36	66 DY	LB2	1	1.623	1,2,3
9.22	66 DY	LB9	1	1.600	1	9.36	81 TL	LY4	2	0.812	1,2
9.22	55 CS	KA1	4	0.400	1,2,3	9.37	61 PM	KA2	5	0.325	1,2,3
9.22	52 TE	KB1	4	0.400	1,2,3	9.38	83 BI	LY1	2	0.813	1,2,3
9.23	68 ER	LB4	1	1.601	1,2,3	9.39	88 RA	LB1	2	0.814	1,2,3
9.25	52 TE	KB3	4	0.401	1,2	9.39	89 AC	LB2	2	0.814	1
9.25	45 RH	KB2	3	0.535	1,2,3	9.40	57 LA	KB5	5	0.326	1
9.25	48 CD	KA1	3	0.535	1,2,3	9.40	71 LU	LA2	1	1.630	1,2,3
9.25	61 PM	KA1	5	0.321	1,2,3	9.40	82 PB	LY3	2	0.815	1,2,3
9.26	8E RA	LB3	2	0.803	1,2,3	9.40	75 RE	LL	1	1.630	1,2,3
9.26	62 SM	LY4	1	1.606	1,2	9.41	88 RA	LB7	2	0.816	1,2
9.27	66 DY	LB10	1	1.607	1	9.41	37 RB	KB2	2	0.816	1,2,3
9.27	93 CF	LA2	2	0.804	1	9.41	51 SE	KB2	4	0.408	1,2,3
9.28	27 CO	KB5	1	1.609	1,2	9.42	82 PB	LY6	2	0.817	1,2
9.28	92 U	LN	2	0.805	1,2,3	9.43	70 YB	LN	1	1.636	1,2,3
9.29	88 RA	LB5	2	0.806	1,2	9.44	96 CM	LY1	3	0.546	1
9.32	91 PA	LB6	2	0.808	1,2,3	9.44	45 RH	KB1	3	0.546	1,2,3
9.32	48 CD	KA2	3	0.539	1,2,3	9.44	45 RH	KB3	3	0.546	1,2
9.33	67 HO	LB3	1	1.619	1,2,3	9.46	57 LA	KB1	5	0.328	1,2,3
9.33	71 LU	LA1	1	1.619	1,2,3	9.46	64 GC	LY5	1	1.641	1
9.34	55 CS	KA2	4	0.405	1,2,3	9.47	82 PB	LY2	2	0.821	1,2,3
9.34	97 BK	LA1	2	0.810	1	9.48	97 BK	LA2	2	0.822	1
9.35	27 CO	KB1	1	1.621	1,2,3	9.48	37 RB	KB5	2	0.822	1

MICA CRYSTAL, D# 9.94E ANGSTROMS						9.48 TC 9.83					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
9.48	57 LA	KB3	5	0.329	1,2	9.67	47 AG	KA1	3	0.559	1,2,3
9.50	67 HO	LB1	1	1.647	1,2,3	9.68	74 W	LL	1	1.678	1,2,3
9.54	62 SM	LY3	1	1.655	1,2,3	9.68	83 BI	LY5	2	0.839	1,2
9.55	51 SB	KB5	4	0.414	1	9.68	80 HG	LY4	2	0.839	1,2
9.55	90 TH	LB6	2	0.828	1,2,3	9.69	60 NC	KA2	5	0.336	1,2,3
9.56	39 Y	KA1	2	0.829	1,2,3	9.69	82 PE	LY1	2	0.840	1,2,3
9.56	37 RB	KB1	2	0.829	1,2,3	9.69	87 FR	LB1	2	0.840	1,2,3
9.56	91 PA	LN	2	0.829	1,2,3	9.69	54 XE	KA2	4	0.420	1,2,3
9.56	63 EU	LY1	1	1.658	1,2,3	9.69	66 DY	LB3	1	1.681	1,2,3
9.56	28 NI	KA1	1	1.658	1,2,3	9.69	66 DY	LB6	1	1.681	1,2,3
9.56	96 CM	LA1	2	0.829	1	9.70	96 CM	LA2	2	0.841	1
9.56	37 RB	KB3	2	0.829	1,2	9.70	65 TB	LB2	1	1.682	1,2,3
9.57	67 HO	LB4	1	1.659	1,2,3	9.70	81 TL	LY3	2	0.841	1,2,3
9.57	62 SM	LY2	1	1.659	1,2,3	9.70	88 RA	LB4	2	0.841	1,2,3
9.57	65 TB	LB7	1	1.659	1,2	9.70	70 YB	LA2	1	1.683	1,2,3
9.57	60 ND	KA1	5	0.332	1,2,3	9.72	95 AP	LY1	3	0.562	1,3
9.58	28 NI	KA2	1	1.662	1,2,3	9.72	44 RU	KB2	3	0.562	1,2,3
9.59	54 XE	KA1	4	0.416	1,2,3	9.73	81 TL	LY6	2	0.844	1,2
9.60	56 BA	KB2	5	0.333	1,2,3	9.74	56 BA	KB5	5	0.338	1
9.61	39 Y	KA2	2	0.833	1,2,3	9.76	47 AG	KA2	3	0.564	1,2,3
9.61	65 TB	LB10	1	1.667	1,2	9.78	81 TL	LY2	2	0.848	1,2,3
9.62	51 SB	KB1	4	0.417	1,2,3	9.78	69 TM	LN	1	1.696	1,2,3
9.63	88 RA	LB2	2	0.835	1,2,3	9.78	95 AP	LA1	2	0.848	1,3
9.64	51 SB	KB3	4	0.418	1,2	9.83	44 RU	KB5	3	0.568	1
9.64	70 YB	LA1	1	1.672	1,2,3	9.83	50 SN	KB2	4	0.426	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS						9.83 TO 10.15					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
9.83	56 BA	KB1	5	0.341	1,2,3	10.01	81 TL	LY1	2	0.868	1,2,3
9.83	56 BA	KB3	5	0.341	1,2	10.02	94 PU	LY1	3	0.579	1
9.85	63 EU	LY5	1	1.708	1,2	10.02	69 TM	LA2	1	1.737	1,2,3
9.85	90 TH	LN	2	0.854	1,2,3	10.02	80 HG	LY3	2	0.869	1,2,3
9.86	66 DY	LB1	1	1.710	1,2,3	10.03	50 SN	KB1	4	0.435	1,2,3
9.90	87 FR	LB2	2	0.858	1,2,3	10.04	65 TB	LB6	1	1.741	1,2,3
9.90	44 RU	KB1	3	0.572	1,2,3	10.05	36 KR	KB5	2	0.871	1,2
9.91	44 RU	KB3	3	0.573	1,2	10.05	88 RA	LB6	2	0.871	1,2,3
9.92	95 AM	LA2	2	0.863	1,3	10.06	60 ND	LY4	1	1.744	1,2
9.92	66 DY	LB4	1	1.723	1,2,3	10.06	50 SN	KB3	4	0.436	1,2
9.92	59 PR	KA1	5	0.344	1,2,3	10.06	26 FE	KB5	1	1.744	1,2
9.94	64 GD	LB7	1	1.723	1,2	10.06	59 PR	KA2	5	0.349	1,2,3
9.94	64 GD	LB9	1	1.724	1	10.06	64 GD	LB2	1	1.745	1,2,3
9.95	69 TM	LA1	1	1.726	1,2,3	10.07	80 HG	LY6	2	0.873	1,2
9.96	62 SM	LY1	1	1.727	1,2,3	10.07	65 TB	LB3	1	1.746	1,2,3
9.96	50 SN	KB5	4	0.432	1	10.09	80 HG	LY2	2	0.875	1,2,3
9.96	73 TA	LL	1	1.728	1,2,3	10.09	38 SR	KA1	2	0.875	1,2,3
9.98	55 CS	KB2	5	0.346	1,2,3	10.10	53 I	KA2	4	0.438	1,2,3
9.98	64 GD	LB10	1	1.731	1,2	10.12	46 PD	KA1	3	0.535	1,2,3
9.99	86 RN	LB1	2	0.856	1	10.13	36 KR	KB1	2	0.878	1,2,3
9.99	82 PB	LY5	2	0.856	1,2	10.13	68 ER	LN	1	1.756	1,2,3
9.99	36 KR	KB4	2	0.866	2	10.13	26 FE	KB1	1	1.757	1,2,3
9.99	53 I	KA1	4	0.433	1,2,3	10.14	38 SR	KA2	2	0.879	1,2,3
9.99	36 KR	KB2	2	0.866	1,2,3	10.14	36 KR	KB3	2	0.879	1,2
10.01	94 PU	LA1	2	0.868	1	10.15	94 PU	LA2	2	0.880	1

MICA CRYSTAL, D# 9.94E ANGSTROMS						10.16 TO 10.47					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
10.16	86 RN	LB2	2	0.881	1	10.35	80 HG	LY1	2	0.897	1,2,3
10.21	46 PD	KA2	3	0.590	1,2,3	10.35	78 PT	LY4	2	0.897	1,2
10.21	43 TC	KB2	3	0.590	1	10.36	83 BI	LB9	2	0.898	1,2
10.21	55 CS	KB1	5	0.354	1,2,3	10.36	79 AU	LY3	2	0.898	1,2,3
10.21	43 TC	KB4	3	0.590	1	10.36	68 ER	LA2	1	1.796	1,2,3
10.24	55 CS	KB3	5	0.355	1,2	10.36	60 NC	LY3	1	1.796	1,2,3
10.24	65 TB	LB1	1	1.776	1,2,3	10.37	84 PC	LB5	2	0.899	1,2
10.25	93 NP	LA1	2	0.889	1,2,3	10.38	54 XE	KB2	5	0.360	1,2,3
10.26	62 SM	LB5	1	1.779	2	10.38	63 EU	LB10	1	1.800	1,2
10.26	62 SM	LY5	1	1.779	1	10.39	60 ND	LY2	1	1.801	1,2,3
10.27	49 IN	KB2	4	0.445	1,2,3	10.39	93 NP	LA2	2	0.901	1
10.27	72 HF	LL	1	1.781	1,2,3	10.40	43 TC	KB3	3	0.601	1,2
10.28	91 PA	LY4	3	0.594	1,2	10.40	52 TE	KA1	4	0.451	1,2,3
10.29	68 ER	LA1	1	1.784	1,2,3	10.40	49 IN	KB5	4	0.451	1
10.29	58 CE	KA1	5	0.357	1,2,3	10.42	43 TC	KB1	3	0.602	1,2,3
10.29	65 TB	LB4	1	1.785	1,2,3	10.42	79 AU	LY6	2	0.903	1,2
10.29	92 U	LY6	3	0.595	1,2	10.42	64 GC	LB6	1	1.807	1,2,3
10.31	85 AT	LB1	2	0.894	1	10.43	79 AU	LY2	2	0.904	1,2,3
10.31	63 EU	LB7	1	1.788	1,2	10.43	98 CF	LB1	3	0.603	1
10.32	27 CO	KA1	1	1.789	1,2,3	10.44	85 AT	LB2	2	0.905	1
10.32	81 TL	LY5	2	0.895	1,2	10.44	58 CE	KA2	5	0.362	1,2,3
10.33	93 NP	LY1	3	0.597	1,2,3	10.44	83 BI	LB10	2	0.905	1,2
10.33	63 EU	LB9	1	1.792	1,2	10.45	63 EU	LB2	1	1.812	1,2,3
10.34	27 CO	KA2	1	1.793	1,2,3	10.46	88 RA	LN	2	0.907	1,2,3
10.35	92 U	LY3	3	0.598	1,2,3	10.47	92 U	LY2	3	0.605	1,2,3

MICA CRYSTAL, d_h 9.94E ANGSTROMS							10.47 TO 10.79						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
10.47	64 GD	LB3	1	1.815	1,2,3		10.69	64 GD	LB4	1	1.853	1,2,3	
10.47	61 PM	LY1	1	1.816	1		10.69	79 AU	LY1	2	0.927	1,2,3	
10.48	81 PG	LB3	2	0.909	1,2,3		10.69	82 PB	LB9	2	0.927	1,2	
10.49	52 PR	LY4	1	1.819	1,2		10.69	77 IR	LY4	2	0.927	1,2	
10.50	42 IN	KB1	4	0.455	1,2,3		10.69	45 RH	KA2	3	0.618	1,2,3	
10.50	42 IN	KB3	4	0.455	1,2		10.70	60 NC	LY6	1	1.855	2	
10.51	92 U	LA1	2	0.9	1,2,3		10.70	57 LA	KA1	5	0.371	1,2,3	
10.52	52 TE	KA2	4	0.456	1,2,3		10.70	67 HC	LA2	1	1.856	1,2,3	
10.53	67 HO	LN	1	1.826	1,2,3		10.70	78 PT	LY3	2	0.928	1,2,3	
10.57	90 TH	LY4	3	0.611	1,2		10.70	62 SM	LB7	1	1.856	1,2	
10.59	71 LU	LL	1	1.836	1,2,3		10.72	84 PC	LB2	2	0.929	1,2,3	
10.61	45 RH	KA1	3	0.613	1,2,3		10.73	37 RB	KA2	2	0.930	1,2,3	
10.61	91 PA	LY6	3	0.613	1,2		10.73	48 CC	KB2	4	0.465	1,2,3	
10.61	54 XE	KB1	5	0.358	1,2,3		10.73	42 MC	KB4	3	0.620	2	
10.62	35 BR	KB2	2	0.921	1,2,3		10.73	62 SM	LB9	1	1.861	1,2	
10.64	52 U	LA2	2	0.922	1,2,3		10.75	42 MC	KB2	3	0.621	1,2,3	
10.64	64 PO	LB1	2	0.922	1,2,3		10.75	97 BK	LB1	3	0.621	1	
10.64	67 HO	LA1	1	1.845	1,2,3		10.76	35 BR	KB3	2	0.933	1,2	
10.64	52 U	LY1	3	0.615	1,2,3		10.76	35 BR	KB1	2	0.933	1,2,3	
10.65	64 GD	LB1	1	1.846	1,2,3		10.76	91 PA	LA1	2	0.933	1,2,3	
10.66	80 HG	LY5	2	0.924	1,2		10.77	82 PB	LB10	2	0.934	1,2	
10.67	35 BR	KB5	2	0.925	1,2		10.77	78 PT	LY6	2	0.934	1,2	
10.68	91 PA	LY3	3	0.617	1,2,3		10.77	78 PT	LY2	2	0.934	1,2,3	
10.68	37 RB	KA1	2	0.526	1,2,3		10.78	62 SM	LB10	1	1.869	1,2	
10.68	83 BI	LB5	2	0.526	1,2		10.79	83 BI	LB7	2	0.935	1,2	

MICA CRYSTAL, D# 9.94E ANGSTROMS							10.80 TO 11.13						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
10.80	91 PA	LY2	3	0.624	1,2,3		10.98	48 CC	KB3	4	0.476	1,2	
10.81	63 EU	LB6	1	1.874	1,2,3		10.99	92 U	LY5	3	0.635	1,2	
10.81	59 PR	LY3	1	1.874	1,2,3		10.99	82 PB	LB5	2	0.953	1,2	
10.81	57 LA	KA2	5	0.375	1,2,3		11.01	90 TH	LY3	3	0.636	1,2,3	
10.81	53 I	KB2	5	0.375	1,2,3		11.01	66 DY	LA1	1	1.909	1,2,3	
10.83	60 NC	LY1	1	1.878	1,2,3		11.02	83 BI	LB2	2	0.955	1,2,3	
10.83	83 BI	LB3	2	0.939	1,2,3		11.02	25 MN	KB1	1	1.910	1,2,3	
10.84	59 PR	LY2	1	1.879	1,2,3		11.03	79 AU	LY5	2	0.956	1,2	
10.84	51 SB	KA1	4	0.470	1,2,3		11.03	90 TH	LA1	2	0.956	1,2,3	
10.85	42 MO	KB5	3	0.627	1		11.04	81 TL	LB9	2	0.957	1,2	
10.86	62 SM	LB2	1	1.882	1,2,3		11.05	78 PT	LY1	2	0.958	1,2,3	
10.88	63 EU	LB3	1	1.887	1,2,3		11.06	96 CM	LB1	3	0.639	1	
10.90	91 PA	LA2	2	0.945	1,2,3		11.06	77 IR	LY3	2	0.959	1,2,3	
10.92	70 YB	LL	1	1.894	1,2,3		11.06	76 OS	LY4	2	0.959	1,2	
10.92	84 PC	LB4	2	0.947	1,2,3		11.08	66 DY	LA2	1	1.920	1,2,3	
10.94	42 MO	KB1	3	0.632	1,2,3		11.08	53 I	KB1	5	0.384	1,2,3	
10.94	90 TH	LY6	3	0.632	1,2		11.08	63 EU	LB1	1	1.920	1,2,3	
10.94	66 DY	LN	1	1.897	1,2,3		11.10	82 PB	LB7	2	0.962	1,2	
10.94	25 MN	KB5	1	1.897	1,2		11.10	53 I	KB3	5	0.385	1,2	
10.95	42 MO	KB3	3	0.633	1,2		11.10	56 BA	KA1	5	0.385	1,2,3	
10.95	58 CE	LY4	1	1.899	1,2		11.11	63 EU	LB4	1	1.926	1,2,3	
10.96	51 SB	KA2	4	0.475	1,2,3		11.11	90 TH	LY2	3	0.642	1,2,3	
10.96	48 CC	KB1	4	0.475	1,2,3		11.12	81 TL	LB10	2	0.964	1,2	
10.97	91 PA	LY1	3	0.634	1,2,3		11.13	44 RU	KA1	3	0.643	1,2,3	
10.98	83 BI	LB1	2	0.952	1,2,3		11.13	77 IR	LY2	2	0.965	1,2,3	

MICA CRYSTAL, D# 9.948 ANGSTROMS							11.16 TO 11.46						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
11.16	77 IR	LY6	2	0.957	1,2		11.32	62 SM	LB3	1	1.952	1,2,3	
11.16	84 PO	LB6	2	0.957	1,2,3		11.32	81 TL	LB5	2	0.931	1,2	
11.16	60 ND	LY5	1	1.935	1,2		11.33	82 PB	LB1	2	0.982	1,2,3	
11.17	80 TH	LA2	2	0.958	1,2,3		11.33	50 SN	KA1	4	0.491	1,2,3	
11.17	26 FE	KA1	1	1.936	1,2,3		11.34	91 PA	LY5	3	0.655	1,2	
11.18	82 PB	LB3	2	0.959	1,2,3		11.34	82 PB	LB2	2	0.983	1,2,3	
11.19	26 FE	KA2	1	1.940	1,2,3		11.35	36 KR	KA2	2	0.984	1,2,3	
11.20	84 RU	KA2	3	0.647	1,2,3		11.35	34 SE	KB5	2	0.984	1,2	
11.23	62 SM	LB6	1	1.946	1,2,3		11.38	80 HG	LB9	2	0.986	1,2	
11.23	88 RA	LY4	3	0.649	1,2		11.38	47 AG	KB5	4	0.493	1	
11.24	47 AG	KB2	4	0.487	1,2,3		11.38	65 TE	LN	1	1.973	1	
11.25	56 BA	KA2	5	0.390	1,2,3		11.39	95 AP	LB1	3	0.658	1,3	
11.27	83 BI	LB4	2	0.977	1,2,3		11.39	65 TB	LA1	1	1.975	1,2,3	
11.28	52 TE	KB2	5	0.391	1,2,3		11.40	78 PT	LY5	2	0.988	1,2	
11.28	67 TM	LL	1	1.955	1,2,3		11.42	41 NB	KB5	3	0.660	1	
11.28	53 CE	LY3	1	1.955	1,2,3		11.42	50 SA	KA2	4	0.495	1,2,3	
11.29	61 PM	LB2	1	1.957	1		11.42	81 TL	LB7	2	0.990	1,2	
11.30	93 TH	LY1	3	0.653	1,2,3		11.43	77 IR	LY1	2	0.991	1,2,3	
11.30	93 CF	LB2	3	0.653	1		11.44	57 LA	LY4	1	1.983	1,2	
11.31	87 AC	LA1	2	0.980	1		11.45	34 SE	KB1	2	0.992	1,2,3	
11.31	34 SE	KB2	2	0.980	1,2,3		11.45	76 OS	LY3	2	0.992	1,2,3	
11.31	35 KR	KA1	2	0.980	1,2,3		11.45	89 AC	LA2	2	0.992	1	
11.31	53 CE	LY2	1	1.980	1,2,3		11.45	75 RE	LY4	2	0.992	1,2	
11.31	57 PR	LY1	1	1.961	1,2,3		11.46	83 BI	LB6	2	0.993	1,2,3	
11.32	41 NB	KB2	3	0.654	1,2,3		11.46	34 SE	KB3	2	0.993	1,2	

MICA CRYSTAL, D# 9.94E ANGSTROMS						11.46 TO 11.83					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
11.46	65 TB	LA2	1	1.986	1,2,3	11.67	89 AC	LY1	3	0.674	1
11.47	47 AG	KB1	4	0.497	1,2,3	11.67	60 NC	LB10	1	2.023	1,2
11.49	80 HG	LB10	2	0.996	1,2	11.68	55 CS	KA2	5	0.405	1,2,3
11.49	47 AG	KB3	4	0.498	1,2	11.68	90 TH	LY5	3	0.675	1,2
11.51	76 OS	LY2	2	0.998	1,2,3	11.68	88 RA	LY3	3	0.675	1,2,3
11.53	41 NB	KB3	3	0.666	1,2	11.70	43 TC	KA2	3	0.676	2,3
11.53	41 NB	KB1	3	0.666	1,2,3	11.71	81 TL	LB1	2	1.015	1,2,3
11.53	62 SM	LB1	1	1.998	1,2,3	11.72	88 RA	LA2	2	1.016	1,2,3
11.54	62 SM	LB4	1	2.000	1,2,3	11.73	94 PU	LB1	3	0.678	1
11.54	52 TE	KB1	5	0.400	1,2,3	11.75	60 NC	LB2	1	2.036	1,2,3
11.54	55 CS	KA1	5	0.400	1,2,3	11.76	80 HG	LB7	2	1.019	1,2
11.55	81 TL	LB3	2	1.001	1,2,3	11.77	46 PC	KB2	4	0.510	1,2,3
11.55	76 OS	LY6	2	1.001	1,2	11.77	51 SB	KB2	5	0.408	1,2,3
11.57	52 TE	KB3	5	0.401	1,2	11.78	57 LA	LY3	1	2.041	1,2,3
11.58	97 BK	LB2	3	0.669	1	11.78	82 PB	LB6	2	1.021	1,2,3
11.59	60 ND	LB7	1	2.009	1,2	11.78	79 AU	LB9	2	1.021	1,2
11.60	88 RA	LA1	2	1.005	1,2,3	11.79	92 U	LB9	3	0.681	1,2
11.62	82 PB	LB4	2	1.007	1,2,3	11.79	77 IR	LY5	2	1.022	1,2
11.63	60 ND	LB9	1	2.016	1,2	11.80	64 GC	LA1	1	2.046	1,2,3
11.65	43 TC	KA1	3	0.673	2,3	11.80	57 LA	LY2	1	2.046	1,2,3
11.65	68 ER	LL	1	2.019	1,2,3	11.80	88 RA	LY2	3	0.682	1,2,3
11.65	88 RA	LY6	3	0.673	1,2	11.82	49 IN	KA1	4	0.512	1,2,3
11.65	59 PR	LY5	1	2.020	1,2	11.82	58 CE	LY1	1	2.048	1,2,3
11.65	80 HG	LB5	2	1.010	1,2	11.82	64 GC	LN	1	2.049	1,2,3
11.65	81 TL	LB2	2	1.010	1,2,3	11.83	76 OS	LY1	2	1.025	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS						11.84 TO 12.15					
ANGLE	ELEM	LINE	N	LAMECA	REF	ANGLE	ELEM	LINE	N	LAMECA	REF
11.84	75 RE	LY3	2	1.026	1,2,3	12.02	46 PC	KB1	4	0.521	1,2,3
11.86	96 CM	LB2	3	0.685	1	12.03	24 CR	KB1	1	2.085	1,2,3
11.86	79 AU	LB10	2	1.028	1,2	12.03	88 RA	LY1	3	0.695	1,2,3
11.86	74 W	LY4	2	1.028	1,2	12.03	24 CR	KB3	1	2.085	1,2
11.87	64 GD	LA2	1	2.057	1,2,3	12.03	51 SB	KB1	5	0.417	1,2,3
11.89	98 CF	LY1	4	0.515	1	12.04	67 HC	LL	1	2.086	1,2,3
11.89	87 FR	LA1	2	1.030	1,2,3	12.05	40 ZR	KB5	3	0.696	1
11.89	92 U	LB10	3	0.687	1,2	12.05	35 BR	KA2	2	1.044	1,2,3
11.91	75 RE	LY2	2	1.032	1,2,3	12.06	33 AS	KB2	2	1.045	1,2,3
11.93	46 PD	KB5	4	0.517	1	12.06	51 SB	KB3	5	0.418	1,2
11.93	49 IN	KA2	4	0.517	1,2,3	12.06	59 PR	LB7	1	2.091	1,2
11.93	80 HG	LB3	2	1.034	1,2,3	12.08	93 NP	LB1	3	0.698	1,2,3
11.94	51 SB	KB5	5	0.414	1	12.11	33 AS	KB5	2	1.049	1,2
11.94	40 ZR	KB2	3	0.690	1,2,3	12.11	80 HG	LB1	2	1.049	1,2,3
11.95	24 CR	KB5	1	2.071	1,2	12.12	54 XE	KA2	5	0.420	1,2,3
11.97	75 RE	LY6	2	1.037	1,2	12.12	79 AU	LB7	2	1.050	1,2
11.97	56 BA	LY4	1	2.075	1,2	12.12	81 TL	LB6	2	1.050	1,2,3
11.99	81 TL	LB4	2	1.039	1,2,3	12.12	59 PR	LB9	1	2.100	1,2
12.00	35 BR	KA1	2	1.040	1,2,3	12.13	25 MN	KA1	1	2.102	1,2,3
12.00	80 HG	LB2	2	1.040	1,2,3	12.13	91 PA	LB9	3	0.701	1,2
12.00	79 AU	LB5	2	1.040	1,2	12.13	95 AM	LB2	3	0.701	1,3
12.00	54 XE	KA1	5	0.416	1,2,3	12.14	60 ND	LB6	1	2.104	1,2,3
12.01	68 PM	LB1	1	2.081	1,2,3	12.15	25 MN	KA2	1	2.106	1,2,3
12.02	87 FR	LA2	2	1.042	1	12.15	40 ZR	KB3	3	0.702	1,2
12.02	45 PD	KB3	4	0.521	1,2	12.15	40 ZR	KB1	3	0.702	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS							12.16 TO 12.51					
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF
12.16	59 PR	LB10	1	2.107	1,2		12.33	74 W	LY2	2	1.068	1,2,3
12.16	78 PT	LB9	2	1.054	1,2		12.34	56 BA	LY2	1	2.138	1,2,3
12.18	58 CE	LY5	1	2.110	1,2		12.34	86 RN	LA2	2	1.069	1
12.20	33 AS	KB1	2	1.057	1,2,3		12.34	42 MC	KA2	3	0.713	1,2,3
12.20	86 RN	LA1	2	1.057	1		12.35	45 RH	KB2	4	0.535	1,2,3
12.20	76 OS	LY5	2	1.057	1,2		12.35	48 CD	KA1	4	0.535	1,2,3
12.21	33 AS	KB3	2	1.058	1,2		12.35	79 AU	LB2	2	1.070	1,2,3
12.22	83 BI	LN	2	1.059	1,2,3		12.36	57 LA	LY1	1	2.142	1,2,3
12.23	59 PR	LB2	1	2.119	1,2,3		12.37	80 HG	LB4	2	1.072	1,2,3
12.23	97 BK	LY1	4	0.530	1		12.37	78 PT	LB5	2	1.072	1,2
12.24	63 EU	LA1	1	2.121	1,2,3		12.40	74 W	LY6	2	1.074	1,2
12.24	75 RE	LY1	2	1.061	1,2,3		12.40	87 FR	LY1	3	0.716	1,2,3
12.26	91 PA	LB10	3	0.708	1,2		12.41	88 RA	LY5	3	0.717	1,2
12.26	74 W	LY3	2	1.062	1,2,3		12.43	94 PU	LB2	3	0.718	1
12.26	78 PT	LB10	2	1.062	1,2		12.44	48 CC	KA2	4	0.539	1,2,3
12.27	60 ND	LB3	1	2.126	1,2,3		12.45	66 DY	LL	1	2.158	1,2,3
12.27	42 MC	KA1	3	0.709	1,2,3		12.46	92 U	LB1	3	0.720	1,2,3
12.29	50 SN	KB2	5	0.426	1,2,3		12.46	50 SN	KB5	5	0.432	1
12.29	92 U	LB3	3	0.710	1,2,3		12.46	80 HG	LB6	2	1.080	1,2,3
12.29	73 TA	LY4	2	1.065	1,2		12.49	78 PT	LB7	2	1.082	1,2
12.30	63 EU	LN	1	2.131	1		12.49	45 RH	KB5	4	0.541	1
12.30	63 EU	LA2	1	2.132	1,2,3		12.49	53 I	KA1	5	0.433	1,2,3
12.31	92 U	LL	2	1.067	2,3		12.51	60 NC	LB1	1	2.167	1,2,3
12.31	56 BA	LY3	1	2.134	1,2,3		12.51	60 NC	LB4	1	2.167	1,2,3
12.33	79 AU	LB3	2	1.068	1,2,3		12.51	79 AU	LB1	2	1.084	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS						12.52 TO 12.85					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
12.52	90 TH	LB9	3	0.723	1,2	12.68	74 W	LY1	2	1.099	1,2,3
12.52	85 AT	LA1	2	1.035	1	12.69	62 SM	LA1	1	2.199	1,2,3
12.55	55 CS	LY4	1	2.174	1,2	12.71	39 Y	KB5	3	0.734	1
12.55	50 SN	KB1	5	0.435	1,2,3	12.72	78 PT	LB2	2	1.102	1,2,3
12.57	92 U	LB5	3	0.726	1,2	12.73	57 LA	LY5	1	2.205	1,2
12.58	77 IR	LB9	2	1.090	1,2	12.73	72 HF	LY4	2	1.103	1,2
12.58	50 SN	KB3	5	0.436	1,2	12.74	78 PT	LB3	2	1.104	1,2,3
12.58	58 CE	LB7	1	2.130	1,2	12.74	92 U	LB7	3	0.736	1,2
12.59	39 Y	KB4	3	0.727	2	12.74	93 NP	LB2	3	0.736	1,2,3
12.59	91 PA	LL	2	1.091	1,2,3	12.75	58 CE	LB2	1	2.209	1,2,3
12.60	96 CM	LY1	4	0.546	1	12.75	73 TA	LY2	2	1.105	1,2,3
12.60	45 RH	KB3	4	0.546	1,2	12.75	62 SM	LA2	1	2.210	1,2,3
12.60	92 PB	LN	2	1.092	1,2,3	12.75	34 SE	KA1	2	1.105	1,2,3
12.60	45 RH	KB1	4	0.546	1,2,3	12.77	77 IR	LB5	2	1.106	1,2
12.62	39 Y	KB2	3	0.729	1,2,3	12.78	79 AU	LB4	2	1.107	1,2,3
12.63	58 CE	LB9	1	2.138	1,2	12.79	59 PR	LB3	1	2.217	1,2,3
12.63	75 RE	LY5	2	1.094	1,2	12.79	86 RN	LY1	3	0.739	1
12.64	53 I	KA2	5	0.438	1,2,3	12.80	62 SM	LN	1	2.218	1,2,3
12.64	90 TH	LB10	3	0.730	1,2	12.80	34 SE	KA2	2	1.109	1,2,3
12.64	59 PR	LB6	1	2.190	1,2,3	12.82	79 AU	LB6	2	1.111	1,2,3
12.66	85 AT	LA2	2	1.097	1	12.83	39 Y	KB1	3	0.741	1,2,3
12.66	77 IR	LB10	2	1.097	1,2	12.83	39 Y	KB3	3	0.741	1,2
12.67	58 CE	LB10	1	2.195	1,2	12.84	49 IN	KB2	5	0.445	1,2,3
12.67	91 PA	LB3	3	0.732	1,2,3	12.85	91 PA	LB1	3	0.742	1,2,3
12.68	73 TA	LY3	2	1.099	1,2,3	12.86	84 PC	LA1	2	1.114	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS						12.86 TO 13.18					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
12.86	73 TA	LY6	2	1.114	1,2	13.03	59 PR	LB1	1	2.258	1,2,3
12.87	77 IR	LB7	2	1.115	1,2	13.03	32 GE	KB1	2	1.129	1,2,3
12.87	95 TH	LL	2	1.115	1,2,3	13.07	74 W	LY5	2	1.132	1,2
12.89	55 CS	LY3	1	2.233	1,2,3	13.07	92 U	LB2	3	0.755	1,2,3
12.89	65 TB	LL	1	2.234	1,2,3	13.07	91 PA	LB7	3	0.755	1,2
12.89	32 GE	KB2	2	1.117	1,2,3	13.07	90 TH	LB3	3	0.755	1,2,3
12.90	91 PA	LB5	3	0.745	1,2	13.08	76 OS	LB10	2	1.133	1,2
12.91	47 AG	KA1	4	0.559	1,2,3	13.10	23 V	KB5	1	2.269	1,2
12.91	55 CS	LY2	1	2.237	1,2,3	13.10	77 IR	LB2	2	1.135	1,2,3
12.92	32 GE	KB5	2	1.119	1,2	13.11	44 RU	KB5	4	0.568	1
12.92	41 NB	KA1	3	0.746	1,2,3	13.13	57 LA	LB7	1	2.275	1,2
12.93	78 PT	LB1	2	1.120	1,2,3	13.13	49 IN	KB3	5	0.455	1,2
12.93	56 BA	LY1	1	2.241	1,2,3	13.13	49 IN	KB1	5	0.455	1,2,3
12.95	92 U	LB4	3	0.748	1,2,3	13.14	72 HF	LY3	2	1.138	1,2,3
12.97	95 AM	LY1	4	0.562	1,3	13.14	73 TA	LY1	2	1.138	1,2,3
12.97	44 RU	KB2	4	0.562	1,2,3	13.16	76 OS	LB5	2	1.140	1,2
12.99	41 NB	KA2	3	0.750	1,2,3	13.16	52 TE	KA2	5	0.456	1,2,3
13.00	84 PC	LA2	2	1.126	1,2,3	13.17	58 CE	LB6	1	2.281	1,2,3
13.00	76 OS	LB9	2	1.126	1,2	13.17	77 IR	LB3	2	1.141	1,2,3
13.02	52 TE	KA1	5	0.451	1,2,3	13.17	57 LA	LB9	1	2.282	1,2
13.02	59 PR	LB4	1	2.255	1,2,3	13.18	61 PM	LA1	1	2.283	1,2,3
13.02	49 IN	KB5	5	0.451	1	13.18	83 BI	LY4	3	0.761	1,2
13.02	81 TL	LN	2	1.128	1,2,3	13.18	23 V	KB1	1	2.284	1,2,3
13.02	47 AG	KA2	4	0.564	1,2,3	13.18	78 PT	LB4	2	1.142	1,2,3
13.03	32 GE	KB3	2	1.129	1,2	13.18	23 V	KB3	1	2.284	1,2

MICA CRYSTAL, D# 9.94E ANGSTROMS						13.19 TO 13.61					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
13.19	71 LU	LY4	2	1.143	1	13.37	77 IR	LB1	2	1.158	1,2,3
13.21	44 RU	KB1	4	0.572	1,2,3	13.37	94 PU	LY1	4	0.579	1
13.21	72 HF	LY2	2	1.144	1,2,3	13.40	91 PA	LB2	3	0.774	1,2,3
13.21	78 PT	LB6	2	1.144	1,2,3	13.40	90 TH	LB7	3	0.774	1,2
13.21	83 BI	LA1	2	1.144	1,2,3	13.42	48 CD	KB2	5	0.465	1,2,3
13.21	85 AT	LY1	3	0.763	1	13.42	38 SR	KB5	3	0.775	1
13.22	24 CR	KA1	1	2.290	1,2,3	13.42	88 RA	LB10	3	0.775	1,2
13.22	57 LA	LB10	1	2.290	1,2	13.44	80 HG	LN	2	1.164	1,2,3
13.23	84 PC	LY6	3	0.764	1,2	13.45	75 RE	LB9	2	1.165	1,2
13.23	84 PO	LY3	3	0.764	1,2,3	13.47	88 RA	LL	2	1.167	1,2,3
13.23	44 RU	KB3	4	0.573	1,2	13.51	76 OS	LB2	2	1.170	1,2,3
13.23	61 PM	LA2	1	2.292	1	13.51	46 PC	KA1	4	0.585	1,2,3
13.24	24 CR	KA2	1	2.294	1,2,3	13.53	75 RE	LB10	2	1.172	1,2
13.25	90 TH	LB5	3	0.765	1,2	13.54	73 TA	LY5	2	1.173	1,2
13.25	90 TH	LB1	3	0.765	1,2,3	13.55	55 CS	LY1	1	2.348	1,2,3
13.26	76 OS	LB7	2	1.149	1,2	13.56	38 SR	KB1	3	0.783	1,2,3
13.29	57 LA	LB2	1	2.303	1,2,3	13.56	38 SR	KB3	3	0.783	1,2
13.32	88 RA	LB9	3	0.769	1,2	13.56	58 CE	LB4	1	2.349	1,2,3
13.32	56 BA	LY5	1	2.308	1,2	13.57	82 PB	LA1	2	1.175	1,2,3
13.33	72 HF	LY6	2	1.155	1,2	13.57	51 SB	KA1	5	0.470	1,2,3
13.33	83 BI	LA2	2	1.155	1,2,3	13.58	33 AS	KA1	2	1.176	1,2,3
13.33	91 PA	LB4	3	0.770	1,2,3	13.59	75 RE	LB5	2	1.177	1,2
13.34	58 CE	LB3	1	2.311	1,2,3	13.60	58 CE	LB1	1	2.356	1,2,3
13.35	64 GD	LL	1	2.312	1,2,3	13.60	77 IR	LB6	2	1.178	1,2,3
13.35	38 SR	KB2	3	0.771	1,2,3	13.61	72 HF	LY1	2	1.179	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS							13.61 TO 13.93						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
13.61	40 ZR	KA1	3	0.786	1,2,3		13.73	57 LA	LB6	1	2.379	1,2,3	
13.61	82 PB	LY4	3	0.786	1		13.73	90 TH	LB4	3	0.793	1,2,3	
13.61	71 LU	LY3	2	1.179	1,2,3		13.74	92 U	LY6	4	0.595	1,2	
13.63	46 PD	KA2	4	0.590	1,2,3		13.74	48 CD	KB3	5	0.476	1,2	
13.63	77 IR	LB4	2	1.180	1,2,3		13.74	60 ND	LA2	1	2.380	1,3	
13.63	43 TC	KB4	4	0.590	1		13.75	90 TH	LB2	3	0.794	1,2,3	
13.63	33 AS	KA2	2	1.180	1,2,3		13.78	56 BA	LB10	1	2.387	1,2	
13.63	43 TC	KB2	4	0.590	1		13.79	93 NP	LY1	4	0.597	1,2,3	
13.63	76 OS	LB3	2	1.180	1,2,3		13.79	83 BI	LY2	3	0.796	1,2,3	
13.63	84 PO	LY1	3	0.787	1,2,3		13.80	53 I	LY4	1	2.391	1,2	
13.65	92 U	LB6	3	0.788	1,2,3		13.81	92 U	LY3	4	0.598	1,2,3	
13.66	83 BI	LY3	3	0.789	1,2,3		13.81	31 GA	KB2	2	1.196	1,2,3	
13.66	89 AC	LB1	3	0.789	1		13.82	31 GA	KB5	2	1.197	1,2	
13.68	40 ZR	KA2	3	0.790	1,2,3		13.82	76 OS	LB1	2	1.197	1,2,3	
13.68	83 BI	LY6	3	0.790	1,2		13.83	63 EU	LL	1	2.395	1,2,3	
13.68	70 YB	LY4	2	1.185	1,2		13.83	71 LU	LY6	2	1.198	1,2	
13.68	71 LU	LY2	2	1.185	1,2,3		13.88	56 BA	LB2	1	2.404	1,2,3	
13.68	60 ND	LA1	1	2.370	1,2,3		13.88	43 TC	KB3	4	0.601	1,2	
13.69	75 RE	LB7	2	1.186	1,2		13.89	79 AU	LN	2	1.203	1,2,3	
13.69	82 PB	LA2	2	1.186	1,2,3		13.90	43 TC	KB1	4	0.602	1,2,3	
13.71	51 SB	KA2	5	0.475	1,2,3		13.90	74 W	LB9	2	1.204	1,2	
13.71	48 CD	KB1	5	0.475	1,2,3		13.91	60 ND	LN	1	2.409	1,2,3	
13.72	91 PA	LY4	4	0.594	1,2		13.91	88 RA	LB3	3	0.803	1,2,3	
13.72	56 BA	LB9	1	2.376	1,2		13.91	57 LA	LB3	1	2.410	1,2,3	
13.72	98 CF	LA1	3	0.792	1		13.93	98 CF	LB1	4	0.603	1	

41CA CRYSTAL, D# 9.94E ANGSTROMS						13.93 TC 14.28					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
13.93	98 CF	LA2	3	0.804	1	14.11	90 TH	LY4	4	0.611	1,2
13.94	81 TL	LA1	2	1.207	1,2,3	14.12	82 PB	LY3	3	0.815	1,2,3
13.94	75 RE	LB2	2	1.207	1,2,3	14.13	53 I	LY2	1	2.447	1,2,3
13.94	92 U	LN	3	0.805	1,2,3	14.13	53 I	LY3	1	2.447	1,2
13.95	31 GA	KB1	2	1.208	1,2,3	14.13	88 RA	LB7	3	0.816	1,2
13.95	31 GA	KB3	2	1.208	1,2	14.13	74 W	LB7	2	1.224	1,2
13.95	55 CS	LY5	1	2.47	1,2	14.13	37 RE	KB2	3	0.816	1,2,3
13.96	88 RA	LB5	3	0.806	1,2	14.14	57 LA	LB4	1	2.449	1,2,3
13.97	92 U	LY2	4	0.605	1,2,3	14.15	82 PB	LY6	3	0.817	1,2
14.00	91 PA	LB6	3	0.808	1,2,3	14.16	91 PA	LY6	4	0.613	1,2
14.00	74 W	LB10	2	1.212	1,2	14.16	45 RH	KA1	4	0.613	1,2,3
14.01	76 OS	LB6	2	1.213	1,2,3	14.18	50 SA	KA1	5	0.491	1,2,3
14.03	97 BK	LA1	3	0.810	1	14.19	69 TM	LY4	2	1.229	1
14.03	74 W	LB5	2	1.215	1,2	14.19	70 YB	LY2	2	1.229	1,2,3
14.03	72 HF	LY5	2	1.215	1,2	14.19	57 LA	LB1	1	2.458	1,2,3
14.06	47 AG	KB2	5	0.487	1,2,3	14.20	92 U	LY1	4	0.515	1,2,3
14.07	81 TL	LY4	3	0.812	1,2	14.22	54 XE	LY1	1	2.462	1
14.07	75 OS	LB4	2	1.218	1,2,3	14.22	82 PB	LY2	3	0.821	1,2,3
14.08	81 TL	LA2	2	1.219	1,2,3	14.22	59 PR	LA1	1	2.463	1,2,3
14.08	83 BI	LY1	3	0.813	1,2,3	14.23	47 AG	KB5	5	0.493	1
14.09	75 RE	LB3	2	1.220	1,2,3	14.24	97 BK	LA2	3	0.822	1
14.10	88 RA	LB1	3	0.814	1,2,3	14.24	37 RE	KB5	3	0.822	1
14.10	89 AC	LB2	3	0.814	1	14.25	91 PA	LY3	4	0.617	1,2,3
14.11	70 YB	LY3	2	1.222	1,2,3	14.27	45 RH	KA2	4	0.618	1,2,3
14.11	71 LU	LY1	2	1.222	1,2,3	14.28	59 PR	LA2	1	2.473	1,2,3

MICA CRYSTAL, D# 9.948 ANGSTROMS							14.29 TO 14.57						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
14.29	50 SN	KA2	5	0.495	1,2,3		14.43	39 Y	KA2	3	0.833	1,2,3	
14.31	75 RE	LB1	2	1.239	1,2,3		14.45	75 RE	LB6	2	1.251	1,2,3	
14.31	55 CS	LB9	1	2.478	1,2		14.45	23 V	KA1	1	2.503	1,2,3	
14.32	42 MO	KB4	4	0.620	2		14.47	88 RA	LB2	3	0.835	1,2,3	
14.33	80 HG	LA1	2	1.241	1,2,3		14.47	80 HG	LA2	2	1.253	1,2,3	
14.33	62 SM	LL	1	2.482	1,2,3		14.48	23 V	KA2	1	2.507	1,2,3	
14.33	56 BA	LB6	1	2.482	1,2,3		14.48	42 MC	KB5	4	0.627	1	
14.34	42 MC	KB2	4	0.621	1,2,3		14.48	32 GE	KA1	2	1.254	1,2,3	
14.34	90 TH	LB6	3	0.828	1,2,3		14.48	73 TA	LB10	2	1.254	1,2	
14.34	97 BK	LB1	4	0.621	1		14.49	73 TA	LB5	2	1.255	1,2	
14.35	55 CS	LB7	1	2.485	1,2		14.50	52 TE	LY4	1	2.511	1,2	
14.35	47 AG	KB1	5	0.497	1,2,3		14.50	55 CS	LB2	1	2.511	1,2,3	
14.36	78 PT	LN	2	1.243	1,2,3		14.51	59 PR	LN	1	2.512	1,2,3	
14.36	70 YB	LY6	2	1.243	1,2		14.52	22 TI	KB1	1	2.514	1,2,3	
14.36	37 RB	KB3	3	0.829	1,2		14.52	22 TI	KB3	1	2.514	1,2	
14.36	91 PA	LN	3	0.829	1,2,3		14.53	56 BA	LB3	1	2.516	1,2,3	
14.36	96 CM	LA1	3	0.829	1		14.53	32 GE	KA2	2	1.258	1,2,3	
14.36	39 Y	KA1	3	0.829	1,2,3		14.54	80 HG	LY4	3	0.839	1,2	
14.36	37 RB	KB1	3	0.829	1,2,3		14.54	83 B1	LY5	3	0.839	1,2	
14.38	47 AG	KB3	5	0.498	1,2		14.54	75 RE	LB4	2	1.259	1,2,3	
14.38	74 W	LB2	2	1.245	1,2,3		14.55	82 PB	LY1	3	0.840	1,2,3	
14.39	73 TA	LB9	2	1.246	1,2		14.55	87 FR	LB1	3	0.840	1,2,3	
14.39	55 CS	LB10	1	2.492	1,2		14.55	71 LU	LY5	2	1.260	1,2	
14.41	91 PA	LY2	4	0.624	1,2,3		14.57	96 CM	LA2	3	0.841	1	
14.42	22 TI	KB5	1	2.498	1,2		14.57	81 TL	LY3	3	0.841	1,2,3	

MICA CRYSTAL, D# 9.94E ANGSTROMS							14.57 TO 14.99						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
14.57	88 RA	LB4	3	0.841	1,2,3		14.83	52 TE	LY3	1	2.567	1,2	
14.59	74 W	LB3	2	1.263	1,2,3		14.83	52 TE	LY2	1	2.567	1,3	
14.60	90 TH	LY6	4	0.632	1,2		14.83	30 ZN	KB2	2	1.284	1,2,3	
14.60	73 TA	LB7	2	1.264	1,2		14.83	90 TH	LY2	4	0.642	1,2,3	
14.60	42 MO	KB1	4	0.632	1,2,3		14.83	77 IR	LN	2	1.284	1,2,3	
14.62	81 TL	LY6	3	0.844	1,2		14.83	73 TA	LB2	2	1.284	1,2,3	
14.62	42 MO	KB3	4	0.633	1,2		14.84	58 CE	LA2	1	2.570	1,2,3	
14.65	69 TM	LY3	2	1.268	1,2,3		14.84	30 ZN	KB5	2	1.285	1,2	
14.65	91 PA	LY1	4	0.634	1,2,3		14.85	44 RU	KA1	4	0.643	1,2,3	
14.65	70 YB	LY1	2	1.268	1,2,3		14.87	87 FR	LB2	3	0.858	1,2,3	
14.67	92 U	LY5	4	0.635	1,2		14.87	98 CF	LY1	5	0.515	1	
14.69	90 TH	LY3	4	0.636	1,2,3		14.88	79 AU	LA2	2	1.288	1,2,3	
14.69	81 TL	LY2	3	0.848	1,2,3		14.90	95 AM	LA2	3	0.860	1,3	
14.69	95 AM	LA1	3	0.848	1,3		14.90	74 W	LB6	2	1.290	1,2,3	
14.72	69 TM	LY2	2	1.274	1,2,3		14.90	69 TM	LY6	2	1.290	1	
14.73	46 PD	KB2	5	0.510	1,2,3		14.90	72 HF	LB9	2	1.290	1,2	
14.74	68 ER	LY4	2	1.276	1,2		14.91	53 I	LY1	1	2.5E2	1,2,3	
14.74	79 AU	LA1	2	1.276	1,3		14.93	49 IN	KA2	5	0.517	1,2,3	
14.76	56 BA	LB4	1	2.555	1,2,3		14.93	46 PD	KB5	5	0.517	1	
14.76	96 CH	LB1	4	0.639	1		14.95	44 RU	KA2	4	0.647	1,2,3	
14.78	49 IN	KA1	5	0.512	1,2,3		14.96	30 ZN	KB1	2	1.295	1,2,3	
14.79	58 CE	LA1	1	2.561	1,2,3		14.98	55 CS	LB6	1	2.593	1,2,3	
14.80	90 TH	LN	3	0.854	1,2,3		14.99	72 HF	LB5	2	1.298	1,2	
14.81	74 W	LB1	2	1.282	1,2,3		14.99	88 RA	LY4	4	0.649	1,2	
14.83	56 BA	LB1	1	2.567	1,2,3		14.99	72 HF	LB10	2	1.298	1,2	

MICA CRYSTAL, D# 9.94E ANGSTROMS						15.01 TO 15.40					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
15.01	36 KR	KB4	3	0.866	2	15.18	55 CS	LB3	1	2.628	1,2,3
15.01	36 KR	KB2	3	0.866	1,2,3	15.19	69 TM	LY1	2	1.315	1,2,3
15.01	82 PB	LY5	3	0.866	1,2	15.19	68 ER	LY3	2	1.315	1,2,3
15.01	86 RN	LB1	3	0.866	1	15.20	95 AM	LB1	4	0.658	1,3
15.04	81 TL	LY1	3	0.868	1,2,3	15.20	83 BI	LL	2	1.316	1,2,3
15.04	74 W	LB4	2	1.302	1,2,3	15.21	36 KR	KB1	3	0.878	1,2,3
15.04	94 PU	LA1	3	0.868	1	15.23	36 KR	KB3	3	0.879	1,2
15.05	46 PD	KB1	5	0.521	1,2,3	15.23	38 SR	KA2	3	0.879	1,2,3
15.05	46 PD	KB3	5	0.521	1,2	15.24	51 SE	LY4	1	2.639	1,2
15.06	80 HG	LY3	3	0.869	1,2,3	15.25	41 NE	KB5	4	0.660	1
15.09	90 TH	LY1	4	0.653	1,2,3	15.25	94 PU	LA2	3	0.880	1
15.09	70 YB	LY5	2	1.306	1,2	15.26	68 ER	LY2	2	1.321	1,2,3
15.09	72 HF	LB7	2	1.306	1,2	15.27	86 RN	LB2	3	0.881	1
15.09	98 CF	LB2	4	0.653	1	15.27	67 HC	LY4	2	1.322	1,2
15.09	36 KR	KB5	3	0.871	1,2	15.30	78 PT	LA2	2	1.324	1,2,3
15.09	88 RA	LB6	3	0.871	1,2,3	15.31	97 BK	LY1	5	0.530	1
15.10	73 TA	LB3	2	1.307	1,2,3	15.32	72 HF	LB2	2	1.326	1,2,3
15.11	41 NB	KB2	4	0.654	1,2,3	15.33	73 TA	LB1	2	1.327	1,2,3
15.13	80 HG	LY6	3	0.873	1,2	15.34	76 CS	LN	2	1.328	1,2,3
15.13	58 CE	LN	1	2.620	1,2,3	15.35	53 I	LY5	1	2.657	1,2
15.13	91 PA	LY5	4	0.655	1,2	15.38	73 TA	LB6	2	1.331	1,2,3
15.16	38 SR	KA1	3	0.875	1,2,3	15.39	41 NE	KB1	4	0.666	1,2,3
15.16	80 HG	LY2	3	0.875	1,2,3	15.39	41 NE	KB3	4	0.666	1,2
15.17	78 PT	LA1	2	1.313	1,2,3	15.39	57 LA	LA1	1	2.665	1,2,3
15.17	54 XE	LB2	1	2.626	1	15.40	55 CS	LB4	1	2.666	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS							15.41 TO 15.76						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
15.41	93 NP	LA1	3	0.889	1,2,3		15.58	84 PC	LB5	3	0.899	1,2	
15.44	71 LU	LB9	2	1.336	1,2		15.59	71 LU	LB7	2	1.349	1,2	
15.45	57 LA	LA2	1	2.674	1,2,3		15.60	90 TH	LY5	4	0.675	1,2	
15.45	48 CD	KA1	5	0.535	1,2,3		15.60	88 RA	LY3	4	0.675	1,2,3	
15.45	45 RH	KR2	5	0.535	1,2,3		15.60	82 PB	LL	2	1.350	1,2,3	
15.46	60 ND	LL	1	2.676	1,2,3		15.61	77 IR	LA1	2	1.351	1,2,3	
15.46	97 BK	LB2	4	0.669	1		15.62	93 NP	LA2	3	0.501	1	
15.48	31 GA	KA1	2	1.340	1,2,3		15.62	43 TC	KA2	4	0.676	2,3	
15.49	85 AT	LB1	3	0.894	1		15.63	45 RH	KR5	5	0.541	1	
15.50	55 CS	LB1	1	2.683	1,2,3		15.63	72 HF	LB3	2	1.353	1,2,3	
15.51	71 LU	LB5	2	1.342	1,2		15.65	79 AU	LY6	3	0.953	1,2	
15.51	81 TL	LY5	3	0.895	1,2		15.66	69 TP	LY5	2	1.355	1,2	
15.52	71 LU	LB10	2	1.343	1,2		15.67	79 AU	LY2	3	0.904	1,2,3	
15.53	31 GA	KA2	2	1.344	1,2,3		15.67	52 TE	LY1	1	2.712	1,2,3	
15.55	80 HG	LY1	3	0.897	1,2,3		15.67	94 PU	LB1	4	0.678	1	
15.55	78 PT	LY4	3	0.897	1,2		15.67	53 I	LB9	1	2.713	1,2	
15.55	43 TC	KA1	4	0.673	2,3		15.69	83 BI	LB10	3	0.905	1,2	
15.55	88 RA	LY6	4	0.673	1,2		15.69	85 AT	LB2	3	0.905	1	
15.55	73 TA	LB4	2	1.346	1,2,3		15.71	53 I	LB10	1	2.720	1,2	
15.56	83 BI	LB9	3	0.898	1,2		15.72	88 RA	LN	3	0.907	1,2,3	
15.56	79 AU	LY3	3	0.898	1,2,3		15.74	92 U	LB9	4	0.681	1,2	
15.57	51 SB	LY3	1	2.695	1,2		15.74	77 IR	LA2	2	1.362	1,2,3	
15.57	48 CD	KA2	5	0.539	1,2,3		15.76	84 PC	LB3	3	0.909	1,2,3	
15.57	51 SB	LY2	1	2.695	1,2,3		15.76	88 RA	LY2	4	0.682	1,2,3	
15.58	89 AC	LY1	4	0.674	1		15.76	67 HC	LY3	2	1.364	1,2,3	

MICA CRYSTAL, D# 9.94E ANGSTROMS							15.76 TO 16.12						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
15.76	68 ER	LY1	2	1.364	1,2,3		15.99	70 YB	LB9	2	1.384	1,2	
15.77	45 RH	KB1	5	0.546	1,2,3		16.01	81 TL	LL	2	1.385	1,2,3	
15.77	96 CM	LY1	5	0.546	1		16.02	80 HG	LY5	3	0.924	1,2	
15.77	45 RH	KB3	5	0.546	1,2		16.03	70 YB	LB5	2	1.387	1,2	
15.77	53 I	LB7	1	2.730	1,2		16.03	35 BR	KB5	3	0.925	1,2	
15.79	92 U	LA1	3	0.911	1,2,3		16.03	56 BA	LA1	1	2.775	1,2,3	
15.83	57 LA	LN	1	2.740	1,2,3		16.05	50 SN	LY4	1	2.777	1,2	
15.83	71 LU	LB2	2	1.370	1,2,3		16.05	37 RB	KA1	3	0.926	1,2,3	
15.83	67 HO	LY2	2	1.370	1,2,3		16.05	83 BI	LB5	3	0.926	1,2	
15.83	96 CM	LB2	4	0.685	1		16.06	88 RA	LY1	4	0.695	1,2,3	
15.87	75 RE	LN	2	1.373	1,2,3		16.06	21 SC	KB1	1	2.780	1,2,3	
15.88	72 HF	LB1	2	1.374	1,2,3		16.07	77 IR	LY4	3	0.927	1,2	
15.88	22 TI	KA1	1	2.748	1,2,3		16.07	82 PB	LB9	3	0.927	1,2	
15.88	92 U	LB10	4	0.687	1,2		16.07	79 AU	LY1	3	0.927	1,2,3	
15.88	72 HF	LB6	2	1.374	1,2,3		16.08	76 OS	LA1	2	1.391	1,2,3	
15.88	66 DY	LY4	2	1.374	1,2		16.08	70 YB	LB10	2	1.391	1,2	
15.89	53 I	LB2	1	2.750	1,2,3		16.09	72 HF	LB4	2	1.392	1,2,3	
15.90	22 TI	KA2	1	2.752	1,2,3		16.09	40 ZR	KB5	4	0.696	1	
15.95	40 ZR	KB2	4	0.690	1,2,3		16.09	78 PT	LY3	3	0.928	1,2,3	
15.96	29 CU	KB2	2	1.381	2,3		16.09	59 PR	LL	1	2.784	1,2,3	
15.96	35 BR	KB2	3	0.921	1,2,3		16.09	29 CU	KB1	2	1.392	1,2,3	
15.97	29 CU	KB5	2	1.382	2		16.09	56 BA	LA2	1	2.785	1,2,3	
15.97	21 SC	KB5	1	2.764	1,2		16.10	29 CU	KB3	2	1.393	1,2	
15.98	92 U	LA2	3	0.922	1,2,3		16.10	84 PC	LB2	3	0.929	1,2,3	
15.98	84 PO	LB1	3	0.922	1,2,3		16.12	37 RE	KA2	3	0.930	1,2,3	

MICA CRYSTAL, D# 9.94E ANGSTROMS						16.12 TC 16.55					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
16.12	52 TE	LY5	1	2.790	1,2	16.37	50 SA	LY2	1	2.833	1,3
16.12	70 YB	LB7	2	1.395	1,2	16.38	66 DY	LY3	2	1.417	1,2,3
16.13	93 NP	LB1	4	0.698	1,2,3	16.38	67 HC	LY1	2	1.417	1,2,3
16.15	47 AG	KA1	5	0.559	1,2,3	16.38	91 PA	LA2	3	0.945	1,2,3
16.17	35 BR	KB1	3	0.933	1,2,3	16.39	42 MC	KA1	4	0.709	1,2,3
16.17	91 PA	LA1	3	0.933	1,2,3	16.40	53 I	LB6	1	2.837	1,2,3
16.17	35 BR	KB3	3	0.933	1,2	16.40	71 LU	LB6	2	1.419	1,2,3
16.17	82 PB	LB10	3	0.934	1,2	16.41	52 TE	LB9	1	2.839	1,2
16.19	78 PT	LY2	3	0.934	1,2,3	16.41	92 U	LB3	4	0.710	1,2,3
16.19	71 LU	LB3	2	1.421	1,2,3	16.41	44 RU	KB5	5	0.568	1
16.19	78 PT	LY6	3	0.934	1,2	16.42	84 PC	LB4	3	0.947	1,2,3
16.20	54 XE	LB1	1	2.803	1	16.42	74 W	LN	2	1.421	1,2,3
16.20	91 PA	LB9	4	0.721	1,2	16.44	80 HG	LL	2	1.422	1,2,3
16.20	76 OS	LA2	2	1.402	1,2,3	16.45	66 DY	LY2	2	1.423	1,2,3
16.20	95 AM	LB2	4	0.701	1,3	16.45	52 TE	LB10	1	2.847	1,2
16.2	83 BI	LB7	3	0.935	1,2	16.46	71 LU	LB1	2	1.424	1,2,3
16.23	40 ZR	KB1	4	0.702	1,2,3	16.48	51 SB	LY1	1	2.851	1,2,3
16.23	40 ZR	KB3	4	0.702	1,2	16.48	42 MC	KA2	4	0.713	1,2,3
16.24	95 AM	LY1	5	0.552	1,3	16.49	65 TB	LY4	2	1.427	1,2
16.24	44 RU	KB2	5	0.552	1,2,3	16.51	83 BI	LB1	3	0.952	1,2,3
16.25	68 ER	LY5	2	1.406	1,2	16.52	82 PB	LB5	3	0.953	1,2
16.28	83 BI	LB3	3	0.939	1,2,3	16.53	44 RU	KB1	5	0.572	1,2,3
16.30	47 AG	KA2	5	0.554	1,2,3	16.54	56 BA	LN	1	2.852	1,2,3
16.35	70 YB	LB2	2	1.415	1,2,3	16.55	52 TE	LB7	1	2.853	1,2
16.37	91 PA	LB10	4	0.708	1,2	16.55	87 FR	LY1	4	0.716	1,2,3

MICA CRYSTAL, DH 9.94E ANGSTROMS							16.56 TO 16.99						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
16.56	44 RU	KB3	5	0.573	1,2		16.73	94 PU	LY1	5	0.579	1	
16.56	83 BI	LB2	3	0.955	1,2,3		16.77	77 IR	LY6	3	0.967	1,2	
16.56	75 RE	LA1	2	1.433	1,2,3		16.77	84 PC	LB6	3	0.967	1,2,3	
16.58	79 AU	LY5	3	0.956	1,2		16.77	55 CS	LA2	1	2.902	1,2,3	
16.58	90 TH	LA1	3	0.956	1,2,3		16.79	92 U	LB5	4	0.726	1,2	
16.58	88 RA	LY5	4	0.717	1,2		16.79	70 YB	LB3	2	1.452	1,2,3	
16.59	30 ZN	KA1	2	1.435	1,2,3		16.79	90 TH	LA2	3	0.968	1,2,3	
16.59	81 TL	LB9	3	0.957	1,2		16.80	82 PB	LB3	3	0.969	1,2,3	
16.60	94 PU	LB2	4	0.718	1		16.81	39 Y	KB4	4	0.727	2	
16.61	78 PT	LY1	3	0.958	1,2,3		16.83	53 I	LB4	1	2.912	1,2,3	
16.61	53 I	LB3	1	2.874	1,2,3		16.86	39 Y	KB2	4	0.729	1,2,3	
16.63	76 OS	LY4	3	0.959	1,2		16.88	79 AU	LL	2	1.460	1,2,3	
16.63	77 IR	LY3	3	0.959	1,2,3		16.88	90 TH	LB10	4	0.730	1,2	
16.63	30 ZN	KA2	2	1.439	1,2,3		16.90	67 HC	LY5	2	1.462	1,2	
16.65	71 LU	LB4	2	1.440	1,2,3		16.91	46 PC	KA1	5	0.585	1,2,3	
16.65	92 U	LB1	4	0.720	1,2,3		16.91	49 IN	LY4	1	2.926	1,2	
16.66	69 TM	LB10	2	1.441	1		16.91	69 TM	LB2	2	1.463	1,2,3	
16.66	52 TE	LB2	1	2.882	1,2,3		16.92	91 PA	LB3	4	0.732	1,2,3	
16.68	82 PB	LB7	3	0.962	1,2		16.94	83 BI	LB4	3	0.977	1,2,3	
16.69	75 RE	LA2	2	1.444	1,2,3		16.95	70 YB	LB6	2	1.466	1,2,3	
16.72	58 CE	LL	1	2.892	1,2,3		16.95	51 SB	LY5	1	2.932	1,2	
16.72	81 TL	LB10	3	0.964	1,2		16.97	39 Y	KB5	4	0.734	1	
16.72	90 TH	LB9	4	0.723	1,2		16.98	53 I	LB1	1	2.937	1,2,3	
16.72	55 CS	LA1	1	2.892	1,2,3		16.99	36 KR	KA1	3	0.980	1,2,3	
16.73	77 IR	LY2	3	0.965	1,2,3		16.99	34 SE	KB2	3	0.980	1,2,3	

MICA CRYSTAL, D# 9.94E ANGSTROMS						16.99 TC 17.27					
ANGLE	ELEM	LINE	N	LAMBCA	REF	ANGLE	ELEM	LINE	N	LAMBCA	REF
16.99	89 AC	LA1	3	0.9E0	1	17.17	68 ER	LB9	2	1.4E5	1,2
17.01	75 TA	LN	2	1.471	1,2,3	17.17	91 PA	LY4	5	0.594	1,2
17.01	65 TB	LY3	2	1.471	1,2,3	17.17	64 GC	LY4	2	1.4E5	1,2
17.01	81 TL	LB5	3	0.9E1	1,2	17.18	52 TE	LB6	1	2.971	1,2,3
17.02	95 NP	LB2	4	0.736	1,2,3	17.18	51 SB	LB9	1	2.972	1,2
17.02	92 U	LB7	4	0.736	1,2	17.19	77 IR	LY1	3	0.991	1,2,3
17.03	82 PB	LB1	3	0.9E2	1,2,3	17.19	74 W	LA2	2	1.4E7	1,2,3
17.03	65 DY	LY1	2	1.473	1,2,3	17.20	92 U	LY6	5	0.595	1,2
17.05	82 PB	LB2	3	0.9E3	1,2,3	17.20	34 SE	KB1	3	0.992	1,2,3
17.05	43 TC	KB2	5	0.590	1	17.20	76 OS	LY3	3	0.992	1,2,3
17.05	43 TC	KB4	5	0.590	1	17.20	89 AC	LA2	3	0.992	1
17.05	45 PD	KA2	5	0.590	1,2,3	17.20	75 RE	LY4	3	0.992	1,2
17.06	74 W	LA1	2	1.476	1,2,3	17.22	28 NI	KB5	2	1.4E9	1,2
17.06	72 YB	LB1	2	1.476	1,2,3	17.22	28 NI	KB2	2	1.4E9	1,2,3
17.06	34 SE	KB5	3	0.9E4	1,2	17.22	83 BI	LB6	3	0.993	1,2,3
17.06	35 KR	KA2	3	0.9E4	1,2,3	17.22	34 SE	KB3	3	0.993	1,2
17.06	65 TB	LY2	2	1.477	1,2,3	17.22	51 SB	LB10	1	2.979	1,2
17.09	85 RN	LY1	4	0.739	1	17.23	91 PA	LB5	4	0.745	1,2
17.09	71 LU	LN	2	1.478	1,2	17.23	49 IN	LY2	1	2.9E0	1,2,3
17.10	80 HG	LB9	3	0.9E6	1,2	17.23	49 IN	LY3	1	2.9E0	1,2
17.12	37 Y	KB3	4	0.741	1,2	17.24	70 YB	LB4	2	1.491	1,2,3
17.12	73 PT	LY5	3	0.9E8	1,2	17.25	41 NB	KA1	4	0.746	1,2,3
17.12	37 Y	KB1	4	0.741	1,2,3	17.26	93 NP	LY1	5	0.597	1,2,3
17.16	91 PA	LB1	4	0.742	1,2,3	17.27	80 HG	LB10	3	0.996	1,2
17.17	81 TL	LB7	3	0.990	1,2	17.27	68 ER	LB10	2	1.494	1,2

MICA CRYSTAL, D# 9.94E ANGSTROMS							17.27 TO 17.69					
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF
17.27	68 ER	LB7	2	1.494	1,2		17.49	54 XE	LA2	1	3.025	1
17.29	92 U	LY3	5	0.598	1,2,3		17.49	92 U	LY2	5	0.605	1,2,3
17.30	92 U	LB4	4	0.748	1,2,3		17.51	68 ER	LB2	2	1.514	1,2,3
17.30	55 CS	LN	1	2.993	1,2,3		17.52	80 HG	LB5	3	1.010	1,2
17.31	76 OS	LY2	3	0.998	1,2,3		17.52	69 TM	LB6	2	1.515	1,2,3
17.33	78 PT	LL	2	1.499	1,2,3		17.52	81 TL	LB2	3	1.010	1,2,3
17.34	41 NB	KA2	4	0.750	1,2,3		17.52	21 SC	KA1	1	3.031	1,2,3
17.34	28 NI	KB1	2	1.500	1,2,3		17.55	21 SC	KA2	1	3.035	1,2,3
17.35	50 SN	LY1	1	3.001	1,2,3		17.55	66 DY	LY5	2	1.518	1,2
17.36	76 OS	LY6	3	1.001	1,2		17.60	73 TA	LA1	2	1.522	1,2,3
17.36	81 TL	LB3	3	1.001	1,2,3		17.60	83 BI	LY4	4	0.761	1,2
17.37	51 SB	LB7	1	3.005	1		17.61	81 TL	LB1	3	1.015	1,2,3
17.37	43 TC	KB3	5	0.601	1,2		17.61	52 TE	LB4	1	3.046	1,2,3
17.38	57 LA	LL	1	3.006	1,2,3		17.61	72 HF	LN	2	1.523	1,2,3
17.40	52 TE	LB3	1	3.009	1,2,3		17.62	88 RA	LA2	3	1.016	1,2,3
17.40	69 TM	LB3	2	1.505	1,2,3		17.65	85 AT	LY1	4	0.763	1
17.40	43 TC	KB1	5	0.602	1,2,3		17.66	90 TH	LY4	5	0.611	1,2
17.43	98 CF	LB1	5	0.603	1		17.67	84 PC	LY6	4	0.764	1,2
17.43	88 RA	LA1	3	1.005	1,2,3		17.67	84 PC	LY3	4	0.764	1,2,3
17.43	54 XE	LA1	1	3.015	1		17.68	80 HG	LB7	3	1.019	1,2
17.46	91 PA	LB7	4	0.755	1,2		17.68	64 GC	LY3	2	1.529	1,2,3
17.46	90 TH	LB3	4	0.755	1,2,3		17.69	69 TM	LB1	2	1.530	1,2,3
17.46	92 U	LB2	4	0.755	1,2,3		17.69	90 TH	LB1	4	0.765	1,2,3
17.47	82 PB	LB4	3	1.007	1,2,3		17.69	65 TE	LY1	2	1.530	1,2,3
17.48	51 SB	LB2	1	3.023	1,2,3		17.69	90 TH	LB5	4	0.765	1,2

MICA CRYSTAL, D# 9.94E ANGSTROMS						17.71 TO 18.11					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
17.71	82 PB	LB6	3	1.021	1,2,3	17.87	87 FR	LA1	3	1.030	1,2,3
17.71	79 AU	LB9	3	1.021	1,2	17.87	20 CA	KB1	1	3.090	1,2,3
17.72	91 PA	LY6	5	0.613	1,2	17.90	75 RE	LY2	3	1.032	1,2,3
17.72	45 RH	KA1	5	0.613	1,2,3	17.90	90 TH	LB7	4	0.774	1,2
17.73	77 IR	LY5	3	1.022	1,2	17.90	91 PA	LB2	4	0.774	1,2,3
17.73	73 TA	LA2	2	1.533	1,2,3	17.92	67 HC	LB10	2	1.549	1
17.74	64 GD	LY2	2	1.534	1,2,3	17.93	42 MC	KB4	5	0.620	2
17.78	20 CA	KB5	1	3.074	1,2	17.93	38 SR	KB5	4	0.775	1
17.78	76 OS	LY1	3	1.025	1,2,3	17.93	88 RA	LB10	4	0.775	1,2
17.78	92 U	LY1	5	0.615	1,2,3	17.94	80 HG	LB3	3	1.034	1,2,3
17.79	88 RA	LB9	4	0.769	1,2	17.96	42 MC	KB2	5	0.621	1,2,3
17.79	52 TE	LB1	1	3.077	1,2,3	17.96	97 BK	LB1	5	0.621	1
17.80	75 RE	LY3	3	1.026	1,2,3	17.99	75 RE	LY6	3	1.037	1,2
17.81	91 PA	LB4	4	0.770	1,2,3	18.01	50 SN	LB9	1	3.115	1,2
17.82	29 CU	KA1	2	1.541	1,2,3	18.01	51 SB	LB6	1	3.115	1,2,3
17.82	77 IR	LL	2	1.541	1,2,3	18.03	81 TL	LB4	3	1.039	1,2,3
17.83	79 AU	LB10	3	1.028	1,2	18.04	91 PA	LY2	5	0.624	1,2,3
17.83	74 W	LY4	3	1.028	1,2	18.04	35 BR	KA1	3	1.040	1,2,3
17.83	38 SR	KB2	4	0.771	1,2,3	18.04	79 AU	LB5	3	1.040	1,2
17.84	50 SN	LY5	1	3.065	1,2	18.04	80 HG	LB2	3	1.040	1,2,3
17.84	91 PA	LY3	5	0.617	1,2,3	18.05	50 SN	LB10	1	3.121	1,2
17.86	63 EU	LY4	2	1.544	1,2	18.06	68 ER	LB3	2	1.561	1,2,3
17.86	69 TM	LB4	2	1.544	1,2,3	18.08	87 FR	LA2	3	1.042	1
17.86	29 CU	KA2	2	1.544	1,2,3	18.11	38 SR	KB3	4	0.783	1,2
17.87	45 RH	KA2	5	0.618	1,2,3	18.11	35 BR	KA2	3	1.044	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS							18.11 TO 18.42					
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF
18.11	38 SR	KB1	4	0.783	1,2,3		18.28	90 TH	LY6	5	0.632	1,2
18.13	68 ER	LB6	2	1.567	1,2,3		18.28	42 MC	KB1	5	0.632	1,2,3
18.13	67 HO	LB2	2	1.567	1,2,3		18.28	83 BI	LY6	4	0.790	1,2
18.13	56 BA	LL	1	3.135	1,2,3		18.28	40 ZR	KA2	4	0.790	1,2,3
18.13	42 MO	KB5	5	0.627	1		18.28	72 HF	LA2	2	1.580	1,2,3
18.13	33 AS	KB2	3	1.045	1,2,3		18.29	78 PT	LB9	3	1.054	1,2
18.14	48 CD	LY3	1	3.137	1,2		18.29	49 IN	LY1	1	3.162	1,2,3
18.15	48 CD	LY2	1	3.138	1,2,3		18.31	42 MC	KB3	5	0.633	1,2
18.15	72 HF	LA1	2	1.569	1,2,3		18.32	98 CF	LA1	4	0.792	1
18.18	40 ZR	KA1	4	0.786	1,2,3		18.34	76 OS	LL	2	1.585	1,2,3
18.18	82 PB	LY4	4	0.786	1		18.34	91 PA	LY1	5	0.634	1,2,3
18.20	80 HG	LB1	3	1.049	1,2,3		18.34	86 RN	LA1	3	1.057	1
18.20	33 AS	KB5	3	1.049	1,2		18.34	76 OS	LY5	3	1.057	1,2
18.21	84 PO	LY1	4	0.787	1,2,3		18.34	33 AS	KB1	3	1.057	1,2,3
18.21	53 I	LA1	1	3.148	1,2,3		18.35	90 TH	LB4	4	0.793	1,2,3
18.22	81 TL	LB6	3	1.050	1,2,3		18.36	68 ER	LB1	2	1.587	1,2,3
18.22	79 AU	LB7	3	1.050	1,2		18.36	33 AS	KB3	3	1.058	1,2
18.23	92 U	LB6	4	0.788	1,2,3		18.36	50 SN	LB2	1	3.175	1,2,3
18.23	51 SB	LB3	1	3.152	1,2,3		18.36	92 U	LY5	5	0.635	1,2
18.24	65 TB	LB5	2	1.577	2		18.37	90 TH	LB2	4	0.794	1,2,3
18.24	65 TB	LY5	2	1.577	1		18.38	83 BI	LN	3	1.059	1,2,3
18.25	50 SN	LB7	1	3.155	1,2		18.39	90 TH	LY3	5	0.636	1,2,3
18.25	83 BI	LY3	4	0.789	1,2,3		18.41	63 EU	LY3	2	1.591	1,2,3
18.25	89 AC	LB1	4	0.789	1		18.41	75 RE	LY1	3	1.061	1,2,3
18.27	53 I	LA2	1	3.158	1,2,3		18.42	83 BI	LY2	4	0.796	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS						18.42 TC 18.88					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
18.42	64 GD	LY1	2	1.592	1,2,3	18.64	74 W	LY6	3	1.074	1,2
18.43	74 W	LY3	3	1.052	1,2,3	18.65	88 RA	LB5	4	0.806	1,2
18.43	73 PT	LB10	3	1.052	1,2	18.66	51 SB	LB1	1	3.226	1,2,3
18.45	51 SB	LB4	1	3.190	1,2,3	18.70	91 PA	LB6	4	0.808	1,2,3
18.43	63 EU	LY2	2	1.597	1,2,3	18.71	44 RU	KA2	5	0.647	1,2,3
18.43	95 CM	LB1	5	0.639	1	18.73	71 LU	LA1	2	1.619	1,2,3
18.43	73 TA	LY4	3	1.055	1,2	18.73	67 HC	LB3	2	1.619	1,2,3
18.50	66 DY	LB7	2	1.599	1,2	18.74	97 BK	LA1	4	0.810	1
18.51	66 DY	LB9	2	1.630	1	18.74	80 HG	LB6	3	1.080	1,2,3
18.52	92 U	LL	3	1.067	2,3	18.76	27 CC	KB1	2	1.621	1,2,3
18.52	68 ER	LB4	2	1.631	1,2,3	18.77	67 HC	LB6	2	1.622	1,2,3
18.53	74 W	LY2	3	1.068	1,2,3	18.77	88 RA	LY4	5	0.649	1,2
18.53	79 AU	LB3	3	1.068	1,2,3	18.78	78 PT	LB7	3	1.082	1,2
18.55	86 RN	LA2	3	1.069	1	18.78	66 DY	LB2	2	1.623	1,2,3
18.57	79 AU	LB2	3	1.070	1,2,3	18.79	81 TL	LY4	4	0.812	1,2
18.57	90 TH	LY2	5	0.642	1,2,3	18.80	49 IN	LY5	1	3.249	1,2
18.58	88 RA	LB3	4	0.803	1,2,3	18.81	79 AU	LB1	3	1.084	1,2,3
18.58	62 SM	LY4	2	1.606	1,2	18.81	83 BI	LY1	4	0.813	1,2,3
18.59	66 DY	LB10	2	1.607	1	18.83	85 AT	LA1	3	1.085	1
18.60	44 RU	KA1	5	0.643	1,2,3	18.84	88 RA	LB1	4	0.814	1,2,3
18.60	80 HG	LB4	3	1.072	1,2,3	18.84	89 AC	LB2	4	0.814	1
18.60	78 PT	LB5	3	1.072	1,2	18.86	71 LU	LA2	2	1.630	1,2,3
18.60	58 CF	LA2	4	0.804	1	18.86	75 RE	LL	2	1.630	1,2,3
18.62	27 CO	KB5	2	1.609	1,2	18.86	82 PB	LY3	4	0.815	1,2,3
18.63	92 U	LN	4	0.805	1,2,3	18.88	37 RE	KB2	4	0.816	1,2,3

MICA CRYSTAL, D# 9.948 ANGSTROMS							18.88 TO 19.20					
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF
18.88	88 RA	LB7	4	0.816	1,2		19.08	73 TA	LY3	3	1.099	1,2,3
18.89	98 CF	LB2	5	0.653	1		19.08	74 W	LY1	3	1.099	1,2,3
18.89	90 TH	LY1	5	0.653	1,2,3		19.08	52 TE	LA2	1	3.298	1,2,3
18.90	55 CS	LL	1	3.267	1,2,3		19.09	41 NE	KB5	5	0.660	1
18.91	82 PB	LY6	4	0.817	1,2		19.13	47 AG	LY3	1	3.306	1,2
18.91	49 IN	LB9	1	3.268	1,2		19.13	78 PT	LB2	3	1.102	1,2,3
18.91	50 SN	LB6	1	3.269	1,2,3		19.13	50 SN	LB3	1	3.306	1,2,3
18.92	77 IR	LB9	3	1.090	1,2		19.13	47 AG	LY2	1	3.306	1,3
18.92	41 NE	KB2	5	0.654	1,2,3		19.15	72 HF	LY4	3	1.103	1,2
18.93	70 YB	LN	2	1.636	1,2,3		19.15	62 SM	LY3	2	1.655	1,2,3
18.94	91 PA	LL	3	1.091	1,2,3		19.16	90 TH	LB6	4	0.828	1,2,3
18.94	49 IN	LB10	1	3.274	1,2		19.16	78 PT	LB3	3	1.104	1,2,3
18.95	91 PA	LY5	5	0.655	1,2		19.18	73 TA	LY2	3	1.105	1,2,3
18.95	82 PB	LN	3	1.092	1,2,3		19.18	34 SE	KA1	3	1.105	1,2,3
18.98	53 I	LN	1	3.280	1,2,3		19.19	91 PA	LN	4	0.829	1,2,3
18.99	75 RE	LY5	3	1.094	1,2		19.19	37 RB	KB1	4	0.829	1,2,3
18.99	64 GD	LY5	2	1.641	1		19.19	28 NI	KA1	2	1.658	1,2,3
19.00	82 PB	LY2	4	0.821	1,2,3		19.19	63 EU	LY1	2	1.658	1,2,3
19.02	37 RB	KB5	4	0.822	1		19.19	39 Y	KA1	4	0.829	1,2,3
19.02	77 BK	LA2	4	0.822	1		19.19	37 RB	KB3	4	0.829	1,2
19.03	52 TE	LA1	1	3.289	1,2,3		19.19	96 CM	LA1	4	0.829	1
19.04	95 AM	LB1	5	0.658	1,3		19.20	65 TB	LB7	2	1.659	1,2
19.04	77 IR	LB10	3	1.097	1,2		19.20	67 HC	LB4	2	1.659	1,2,3
19.04	85 AT	LA2	3	1.097	1		19.20	77 IR	LB5	3	1.106	1,2
19.06	67 HO	LB1	2	1.647	1,2,3		19.20	62 SM	LY2	2	1.659	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS						19.22 TO 19.63					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
19.22	79 AU	LB4	3	1.107	1,2,3	19.44	78 PT	LB1	3	1.120	1,2,3
19.23	28 NI	KA2	2	1.662	1,2,3	19.44	87 FR	LB1	4	0.840	1,2,3
19.25	34 SE	KA2	3	1.109	1,2,3	19.46	20 CA	KA2	1	3.362	1,2,3
19.27	41 NB	KB3	5	0.566	1,2	19.46	66 DY	LB3	2	1.681	1,2,3
19.27	41 NB	KB1	5	0.566	1,2,3	19.46	66 DY	LB6	2	1.681	1,2,3
19.28	39 Y	KA2	4	0.333	1,2,3	19.47	65 TB	LB2	2	1.682	1,2,3
19.29	79 AU	LB6	3	1.111	1,2,3	19.47	81 TL	LY3	4	0.841	1,2,3
19.29	65 TR	LB10	2	1.567	1,2	19.47	88 RA	LB4	4	0.841	1,2,3
19.30	48 CD	LY1	1	3.336	1,2,3	19.47	96 CM	LA2	4	0.841	1
19.32	49 IN	LB2	1	3.338	1,2,3	19.47	88 RA	LY6	5	0.673	1,2
19.33	88 RA	LB2	4	0.835	1,2,3	19.47	43 TC	KA1	5	0.673	2,3
19.34	84 PO	LA1	3	1.114	1,2,3	19.48	70 YB	LA2	2	1.583	1,2,3
19.34	73 TA	LY6	3	1.114	1,2	19.50	89 AC	LY1	5	0.674	1
19.35	50 SN	LB4	1	3.343	1,2,3	19.53	88 RA	LY3	5	0.675	1,2,3
19.35	70 YB	LA1	2	1.672	1,2,3	19.53	90 TH	LY5	5	0.675	1,2
19.36	90 TH	LL	3	1.115	1,2,3	19.54	81 TL	LY6	4	0.844	1,2
19.36	77 IR	LB7	3	1.115	1,2	19.55	76 OS	LB9	3	1.126	1,2
19.36	97 BK	LB2	5	0.669	1	19.55	84 PC	LA2	3	1.126	1,2,3
19.39	32 GE	KB2	3	1.117	1,2,3	19.56	43 TC	KA2	5	0.676	2,3
19.42	80 HG	LY4	4	0.839	1,2	19.58	81 TL	LN	3	1.128	1,2,3
19.42	83 BI	LY5	4	0.839	1,2	19.59	50 SN	LB1	1	3.385	1,2,3
19.42	74 W	LL	2	1.678	1,2,3	19.60	32 GE	KB3	3	1.129	1,2
19.43	32 GE	KB5	3	1.119	1,2	19.60	32 GE	KB1	3	1.129	1,2,3
19.43	20 CA	KA1	1	3.358	1,2,3	19.62	94 PU	LB1	5	0.678	1
19.44	32 PB	LY1	4	0.840	1,2,3	19.63	69 TM	LN	2	1.696	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS							19.63 TO 19.99						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
19.63	81 TL	LY2	4	0.848	1,2,3		19.89	48 CC	LB10	1	3.437	1,2	
19.63	95 AM	LA1	4	0.848	1,3		19.90	52 TE	LN	1	3.438	1,2,3	
19.66	74 W	LY5	3	1.132	1,2		19.91	51 SB	LA1	1	3.439	1,2,3	
19.67	76 OS	LB10	3	1.133	1,2		19.91	66 DY	LB4	2	1.720	1,2,3	
19.71	92 U	LB9	5	0.681	1,2		19.91	95 AM	LA2	4	0.860	1,3	
19.71	77 IR	LB2	3	1.135	1,2,3		19.92	19 K	KB5	1	3.441	1,2	
19.74	88 RA	LY2	5	0.682	1,2,3		19.95	64 GC	LB7	2	1.723	1,2	
19.76	73 TA	LY1	3	1.138	1,2,3		19.95	76 OS	LB7	3	1.149	1,2	
19.76	72 HF	LY3	3	1.138	1,2,3		19.96	64 GC	LB9	2	1.724	1	
19.77	90 TH	LN	4	0.854	1,2,3		19.96	51 SB	LA2	1	3.448	1,2,3	
19.77	63 EU	LY5	2	1.708	1,2		19.97	40 ZR	KB2	5	0.690	1,2,3	
19.80	76 OS	LB5	3	1.140	1,2		19.98	69 TM	LA1	2	1.726	1,2,3	
19.80	66 DY	LB1	2	1.710	1,2,3		19.99	62 SM	LY1	2	1.727	1,2,3	
19.81	77 IR	LB3	3	1.141	1,2,3		19.99	19 K	KB1	1	3.454	1,2,3	
19.82	96 CM	LB2	5	0.685	1								
19.82	48 CC	LY5	1	3.425	1,2								
19.83	78 PT	LB4	3	1.142	1,2,3								
19.85	71 LU	LY4	3	1.143	1								
19.85	48 CC	LB9	1	3.430	1,2								
19.87	78 PT	LB6	3	1.144	1,2,3								
19.87	83 BI	LA1	3	1.144	1,2,3								
19.87	87 FR	LB2	4	0.858	1,2,3								
19.87	72 HF	LY2	3	1.144	1,2,3								
19.88	92 U	LB10	5	0.687	1,2								
19.89	49 IN	LB6	1	3.436	1,2,3								

MICA CRYSTAL, D# 9.948 ANGSTROMS						20.01 TO 20.41					
ANGLE	ELEM	LINE	N	LAMBCA	REF	ANGLE	ELEM	LINE	N	LAMBCA	REF
20.01	73 TA	LL	2	1.728	1,2,3	20.22	80 HG	LY6	4	0.873	1,2
20.04	64 GD	LB10	2	1.721	1,2	20.22	80 HG	LN	3	1.164	1,2,3
20.05	36 KR	KB4	4	0.866	2	20.22	65 TB	LB3	2	1.746	1,2,3
20.05	36 KR	KB2	4	0.866	1,2,3	20.23	75 RE	LB9	3	1.165	1,2
20.05	82 PB	LY5	4	0.866	1,2	20.26	38 SR	KA1	4	0.875	1,2,3
20.05	86 RN	LB1	4	0.866	1	20.26	80 HG	LY2	4	0.875	1,2,3
20.06	72 HF	LY6	3	1.155	1,2	20.27	88 RA	LL	3	1.167	1,2,3
20.06	83 BI	LA2	3	1.155	1,2,3	20.29	91 PA	LB9	5	0.701	1,2
20.09	49 IN	LB3	1	3.470	1,2,3	20.29	95 AM	LB2	5	0.701	1,3
20.10	81 TL	LY1	4	0.868	1,2,3	20.30	49 IN	LB4	1	3.507	1,2,3
20.10	94 PU	LA1	4	0.868	1	20.32	76 CS	LB2	3	1.170	1,2,3
20.11	77 IR	LB1	3	1.158	1,2,3	20.32	40 ZR	KB1	5	0.702	1,2,3
20.11	69 TM	LA2	2	1.737	1,2,3	20.32	40 ZR	KB3	5	0.702	1,2
20.12	88 RA	LY1	5	0.655	1,2,3	20.33	68 ER	LN	2	1.756	1,2,3
20.12	80 HG	LY3	4	0.869	1,2,3	20.33	36 KR	KB1	4	0.878	1,2,3
20.15	40 ZR	KB5	5	0.656	1	20.35	48 CC	LB2	1	3.514	1,2,3
20.16	65 TB	LB6	2	1.741	1,2,3	20.35	26 FE	KB1	2	1.757	1,2,3
20.17	36 KR	KB5	4	0.871	1,2	20.36	36 KR	KB3	4	0.879	1,2
20.17	88 RA	LB6	4	0.871	1,2,3	20.36	75 RE	LB10	3	1.172	1,2
20.19	60 ND	LY4	2	1.744	1,2	20.36	38 SR	KA2	4	0.879	1,2,3
20.19	26 FE	KB5	2	1.744	1,2	20.38	73 TA	LY5	3	1.173	1,2
20.20	46 PD	LY3	1	3.469	1,2	20.38	94 PU	LA2	4	0.860	1
20.20	46 PD	LY2	1	3.469	1,2,3	20.40	47 AG	LY1	1	3.523	1,2,3
20.20	64 GD	LB2	2	1.745	1,2,3	20.40	86 RN	LB2	4	0.861	1
20.20	93 NP	LB1	5	0.658	1,2,3	20.41	82 PB	LA1	3	1.175	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS							20.43 TO 20.87					
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF
20.43	33 AS	KA1	3	1.176	1,2,3		20.71	85 AT	LB1	4	0.894	1
20.44	75 RE	LB5	3	1.177	1,2		20.71	63 EU	LB7	2	1.788	1,2
20.46	77 IR	LB6	3	1.178	1,2,3		20.72	27 CC	KA1	2	1.789	1,2,3
20.48	71 LU	LY3	3	1.179	1,2,3		20.73	81 TL	LY5	4	0.895	1,2
20.48	72 HF	LY1	3	1.179	1,2,3		20.73	87 FR	LY1	5	0.716	1,2,3
20.50	91 PA	LB10	5	0.708	1,2		20.75	63 EU	LB9	2	1.792	1,2
20.50	76 OS	LB3	3	1.180	1,2,3		20.76	88 RA	LY5	5	0.717	1,2
20.50	33 AS	KA2	3	1.180	1,2,3		20.77	27 CC	KA2	2	1.793	1,2,3
20.50	77 IR	LB4	3	1.180	1,2,3		20.78	31 GA	KB2	3	1.196	1,2,3
20.53	42 MO	KA1	5	0.709	1,2,3		20.78	80 HG	LY1	4	0.897	1,2,3
20.56	92 U	LB3	5	0.710	1,2,3		20.78	78 PT	LY4	4	0.897	1,2
20.57	65 TB	LB1	2	1.776	1,2,3		20.79	94 PU	LB2	5	0.718	1
20.59	71 LU	LY2	3	1.185	1,2,3		20.80	76 GS	LB1	3	1.197	1,2,3
20.59	49 IN	LB1	1	3.555	1,2,3		20.80	31 GA	KB5	3	1.197	1,2
20.59	70 YB	LY4	3	1.185	1,2		20.80	79 AU	LY3	4	0.898	1,2,3
20.59	93 NP	LA1	4	0.889	1,2,3		20.80	68 ER	LA2	2	1.796	1,2,3
20.60	53 I	LL	1	3.557	1,2,3		20.80	60 NC	LY3	2	1.796	1,2,3
20.60	62 SM	LB5	2	1.779	2		20.80	83 BI	LB9	4	0.898	1,2
20.60	62 SM	LY5	2	1.779	1		20.81	71 LU	LY6	3	1.198	1,2
20.60	82 PB	LA2	3	1.186	1,2,3		20.83	84 PC	LB5	4	0.899	1,2
20.60	75 RE	LB7	3	1.186	1,2		20.85	63 EU	LB10	2	1.800	1,2
20.63	72 HF	LL	2	1.781	1,2,3		20.85	50 SN	LA1	1	3.600	1,2,3
20.64	42 MO	KA2	5	0.713	1,2,3		20.85	92 U	LB1	5	0.720	1,2,3
20.66	68 ER	LA1	2	1.784	1,2,3		20.86	60 NC	LY2	2	1.801	1,2,3
20.67	65 TB	LB4	2	1.785	1,2,3		20.87	93 NP	LA2	4	0.901	1

MICA CRYSTAL, D# 9.94E ANGSTROMS						20.88 TO 21.35					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
20.88	47 AG	LB9	1	3.605	1,2	21.06	74 W	LB10	3	1.212	1,2
20.90	51 SB	LN	1	3.608	1,2,3	21.07	59 PR	LY4	2	1.819	1,2
20.90	79 AU	LN	3	1.203	1,2,3	21.08	76 OS	LB6	3	1.213	1,2,3
20.90	50 SN	LA2	1	3.609	1,2,3	21.11	92 U	LA1	4	0.911	1,2,3
20.91	47 AG	LB10	1	3.611	1,2	21.11	72 HF	LY5	3	1.215	1,2
20.92	79 AU	LY6	4	0.903	1,2	21.11	48 CD	LB3	1	3.645	1,2,3
20.92	74 W	LB9	3	1.204	1,2	21.11	39 Y	KB2	5	0.729	1,2,3
20.93	48 CD	LB6	1	3.614	1,2,3	21.11	74 W	LB5	3	1.215	1,2
20.93	64 GD	LB6	2	1.807	1,2,3	21.14	90 TH	LB10	5	0.730	1,2
20.94	90 TH	LB9	5	0.723	1,2	21.15	67 HC	LN	2	1.826	1,2,3
20.94	79 AU	LY2	4	0.904	1,2,3	21.16	76 CS	LB4	3	1.218	1,2,2
20.94	47 AG	LY5	1	3.616	1,2	21.18	81 TL	LA2	3	1.219	1,2,3
20.97	83 BI	LB10	4	0.905	1,2	21.20	91 PA	LB3	5	0.732	1,2,3
20.97	85 AT	LB2	4	0.905	1	21.20	75 RE	LB3	3	1.220	1,2,3
20.97	75 RE	LB2	3	1.207	1,2,3	21.24	71 LU	LY1	3	1.222	1,2,3
20.97	81 TL	LA1	3	1.207	1,2,3	21.24	70 YB	LY3	3	1.222	1,2,3
20.99	63 EU	LB2	2	1.812	1,2,3	21.26	39 Y	KB5	5	0.734	1
20.99	31 GA	KB3	3	1.208	1,2	21.27	71 LU	LL	2	1.836	1,2,3
20.99	31 GA	KB1	3	1.208	1,2,3	21.27	74 W	LB7	3	1.224	1,2
21.01	88 RA	LN	4	0.907	1,2,3	21.32	92 U	LB7	5	0.736	1,2
21.02	64 GD	LB3	2	1.815	1,2,3	21.32	93 NP	LB2	5	0.736	1,2,3
21.02	92 U	LB5	5	0.726	1,2	21.33	48 CD	LB4	1	3.682	1,2,3
21.04	61 PM	LY1	2	1.816	1	21.34	35 BR	KB2	4	0.921	1,2,3
21.05	39 Y	KB4	5	0.727	2	21.35	45 RH	LY3	1	3.685	1,2
21.06	84 PO	LB3	4	0.909	1,2,3	21.35	45 RH	LY2	1	3.685	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS						21.36 TO 21.72					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
21.36	70 YB	LY2	3	1.229	1,2,3	21.53	75 RE	LB1	3	1.239	1,2,3
21.36	69 TH	LY4	3	1.229	1	21.55	37 RE	KA2	4	0.930	1,2,3
21.36	84 PO	LB1	4	0.922	1,2,3	21.56	62 SM	LB9	2	1.861	1,2
21.36	92 U	LA2	4	0.922	1,2,3	21.57	80 HG	LA1	3	1.241	1,2,3
21.38	67 HO	LA1	2	1.845	1,2,3	21.58	46 PD	LY1	1	3.724	1,2,3
21.39	64 GD	LB1	2	1.846	1,2,3	21.58	91 PA	LB5	5	0.745	1,2
21.41	86 RN	LY1	5	0.739	1	21.60	78 PT	LN	3	1.243	1,2,3
21.41	80 HG	LY5	4	0.924	1,2	21.60	70 YB	LY6	3	1.243	1,2
21.43	55 BR	KD5	4	0.925	1,2	21.61	41 NR	KA1	5	0.746	1,2,3
21.45	47 AG	LB2	1	3.703	1,2,3	21.62	35 BR	KB1	4	0.933	1,2,3
21.46	83 BI	LB5	4	0.926	1,2	21.62	35 BR	KB3	4	0.933	1,2
21.46	37 RB	KA1	4	0.926	1,2,3	21.62	91 PA	LA1	4	0.933	1,2,3
21.46	39 Y	KB1	5	0.741	1,2,3	21.64	74 W	LB2	3	1.245	1,2,3
21.46	39 Y	KB3	5	0.741	1,2	21.65	78 PT	LY2	4	0.934	1,2,3
21.47	64 GD	LB4	2	1.853	1,2,3	21.65	78 PT	LY6	4	0.934	1,2
21.48	82 PB	LB9	4	0.927	1,2	21.65	82 PB	LB10	4	0.934	1,2
21.48	77 IR	LY4	4	0.927	1,2	21.66	62 SM	LB10	2	1.869	1,2
21.48	79 AU	LY1	4	0.927	1,2,3	21.66	73 TA	LB9	3	1.246	1,2
21.49	60 ND	LY6	2	1.855	2	21.66	48 CC	LB1	1	3.738	1,2,3
21.49	91 PA	LB1	5	0.742	1,2,3	21.67	92 U	LB4	5	0.748	1,2,3
21.50	62 SM	LB7	2	1.856	1,2	21.67	83 BI	LB7	4	0.935	1,2
21.50	78 PT	LY3	4	0.928	1,2,3	21.67	19 K	KA1	1	3.741	1,2,3
21.50	67 HO	LA2	2	1.856	1,2,3	21.70	19 K	KA2	1	3.745	1,2,3
21.53	84 PO	LB2	4	0.929	1,2,3	21.72	59 PR	LY3	2	1.874	1,2,3
21.53	52 TE	LL	1	3.717	1,2,3	21.72	63 EU	LB6	2	1.874	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS						21.73 TO 22.19					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
21.73	41 NB	KA2	5	0.750	1,2,3	21.97	73 TA	LB7	3	1.264	1,2
21.75	75 RE	LB6	3	1.251	1,2,3	21.99	66 DY	LN	2	1.897	1,2,3
21.76	83 BI	LB3	4	0.939	1,2,3	21.99	25 MN	KB5	2	1.897	1,2
21.76	60 ND	LY1	2	1.878	1,2,3	22.01	58 CE	LY4	2	1.899	1,2
21.77	59 PR	LY2	2	1.879	1,2,3	22.02	46 PD	LB10	1	3.799	1,2
21.78	80 HG	LA2	3	1.253	1,2,3	22.04	69 TM	LY3	3	1.268	1,2,3
21.80	73 TA	LB10	3	1.254	1,2	22.04	70 YB	LY1	3	1.268	1,2,3
21.80	32 GE	KA1	3	1.254	1,2,3	22.05	83 BI	LY4	5	0.761	1,2
21.81	62 SM	LB2	2	1.882	1,2,3	22.07	83 BI	LB1	4	0.952	1,2,3
21.82	73 TA	LB5	3	1.255	1,2	22.07	47 AG	LB6	1	3.808	1,2,3
21.86	49 IN	LA1	1	3.772	1,3	22.09	82 PB	LB5	4	0.953	1,2
21.87	32 GE	KA2	3	1.258	1,2,3	22.11	85 AT	LY1	5	0.763	1
21.87	63 EU	LB3	2	1.887	1,2,3	22.13	66 DY	LA1	2	1.909	1,2,3
21.88	92 U	LB2	5	0.755	1,2,3	22.14	84 PO	LY6	5	0.764	1,2
21.88	91 PA	LB7	5	0.755	1,2	22.14	25 MN	KB1	2	1.910	1,2,3
21.88	90 TH	LB3	5	0.755	1,2,3	22.14	83 BI	LB2	4	0.955	1,2,3
21.89	75 RE	LB4	3	1.259	1,2,3	22.14	84 PC	LY3	5	0.764	1,2,3
21.90	71 LJ	LY5	3	1.260	1,2	22.15	46 PD	LY5	1	3.822	1,2
21.90	91 PA	LA2	4	0.945	1,2,3	22.15	69 TM	LY2	3	1.274	1,2,3
21.91	49 IN	LA2	1	3.761	1,2,3	22.16	79 AU	LY5	4	0.956	1,2
21.95	84 PO	LB4	4	0.947	1,2,3	22.16	90 TH	LA1	4	0.956	1,2,3
21.95	70 YB	LL	2	1.894	1,2,3	22.17	90 TH	LB5	5	0.765	1,2
21.96	50 SN	LN	1	3.789	1,2,3	22.17	90 TH	LB1	5	0.765	1,2,3
21.96	74 W	LB3	3	1.263	1,2,3	22.19	68 ER	LY4	3	1.276	1,2
21.97	46 PD	LB9	1	3.792	1,2	22.19	79 AU	LA1	3	1.276	1,3

MICA CRYSTAL, D# 9.94E ANGSTROMS						22.19 TO 22.69					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
22.19	81 TL	LB9	4	0.957	1,2	22.43	74 W	LB6	3	1.290	1,2,3
22.21	78 PT	LY1	4	0.958	1,2,3	22.43	47 AG	LB4	1	3.870	1,2,3
22.21	47 AG	LB3	1	3.833	1,2,3	22.43	69 TM	LY6	3	1.290	1
22.23	76 OS	LY4	4	0.959	1,2	22.43	91 PA	LB2	5	0.774	1,2,3
22.23	77 IR	LY3	4	0.959	1,2,3	22.44	90 TH	LA2	4	0.968	1,2,3
22.26	63 EU	LB1	2	1.920	1,2,3	22.44	26 FE	KA1	2	1.936	1,2,3
22.26	66 DY	LA2	2	1.920	1,2,3	22.46	88 RA	LB10	5	0.775	1,2
22.29	88 RA	LB9	5	0.769	1,2	22.46	38 SR	KB5	5	0.775	1
22.29	74 W	LB1	3	1.282	1,2,3	22.47	82 PB	LB3	4	0.969	1,2,3
22.30	82 PB	LB7	4	0.962	1,2	22.49	26 FE	KA2	2	1.940	1,2,3
22.31	91 PA	LB4	5	0.770	1,2,3	22.51	18 A	KB1	1	3.884	1
22.33	30 ZN	KB2	3	1.284	1,2,3	22.52	30 ZN	KB1	3	1.295	1,2,3
22.33	63 EU	LB4	2	1.926	1,2,3	22.54	51 SB	LL	1	3.888	1,2,3
22.33	73 TA	LB2	3	1.284	1,2,3	22.56	62 SM	LB6	2	1.946	1,2,3
22.33	77 IR	LN	3	1.284	1,2,3	22.57	72 HF	LB5	3	1.298	1,2
22.34	30 ZN	KB5	3	1.285	1,2	22.57	72 HF	LB10	3	1.298	1,2
22.34	38 SR	KB2	5	0.771	1,2,3	22.59	44 RU	LY3	1	3.897	1,2
22.35	81 TL	LB10	4	0.964	1,2	22.59	44 RU	LY2	1	3.897	1,2,3
22.37	77 IR	LY2	4	0.965	1,2,3	22.64	74 W	LB4	3	1.302	1,2,3
22.40	79 AU	LA2	3	1.288	1,2,3	22.66	83 BI	LB4	4	0.977	1,2,3
22.42	84 PC	LB6	4	0.967	1,2,3	22.66	46 PC	LB2	1	3.909	1,2,3
22.42	77 IR	LY6	4	0.967	1,2	22.67	69 TM	LL	2	1.955	1,2,3
22.43	90 TH	LB7	5	0.774	1,2	22.67	92 U	MA1	1	3.910	1,2
22.43	72 HF	LB9	3	1.290	1,2	22.67	58 CE	LY3	2	1.955	1,2,3
22.43	60 NC	LY5	2	1.935	1,2	22.69	61 PM	LB2	2	1.957	1

MICA CRYSTAL, D# 9.94E ANGSTROMS						22.70 TO 23.03					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
22.70	33 SR	KB1	5	0.763	1,2,3	22.87	83 BI	LY3	5	0.789	1,2,3
22.70	33 SR	KB3	5	0.763	1,2	22.87	69 TM	LY1	3	1.315	1,2,3
22.71	70 YB	LY5	3	1.306	1,2	22.87	68 ER	LY3	3	1.315	1,2,3
22.71	72 HF	LB7	3	1.306	1,2	22.87	89 AC	LB1	5	0.789	1
22.73	35 KR	KA1	4	0.960	1,2,3	22.88	65 TB	LN	2	1.973	1
22.73	80 AC	LA1	4	0.960	1	22.89	83 BI	LL	3	1.316	1,2,3
22.73	34 SE	KB2	4	0.960	1,2,3	22.90	40 ZR	KA2	5	0.790	1,2,3
22.73	53 CE	LY2	2	1.960	1,2,3	22.90	83 BI	LY6	5	0.790	1,2
22.73	73 TA	LB3	3	1.307	1,2,3	22.90	65 TB	LA1	2	1.975	1,2,3
22.74	50 PR	LY1	2	1.961	1,2,3	22.91	78 PT	LY5	4	0.988	1,2
22.75	81 TL	LB5	4	0.981	1,2	22.94	48 CD	LA1	1	3.956	1,2,3
22.75	62 SM	LB3	2	1.962	1,2,3	22.96	81 TL	LB7	4	0.990	1,2
22.75	92 U	MA2	1	3.924	1,2	22.96	98 CF	LA1	5	0.792	1
22.77	82 PB	LB1	4	0.982	1,2,3	22.98	68 ER	LY2	3	1.321	1,2,3
22.78	82 PB	LY4	5	0.786	1	22.98	77 IR	LY1	4	0.991	1,2,3
22.78	40 ZR	KA1	5	0.786	1,2,3	22.99	90 TH	LB4	5	0.793	1,2,3
22.80	82 PB	LB2	4	0.983	1,2,3	22.99	48 CD	LA2	1	3.965	1,2,3
22.81	47 AG	LB1	1	3.934	1,2,3	23.00	67 HO	LY4	3	1.322	1,2
22.81	84 PO	LY1	5	0.787	1,2,3	23.00	57 LA	LY4	2	1.983	1,2
22.82	34 SE	KB5	4	0.984	1,2	23.01	76 OS	LY3	4	0.992	1,2,3
22.82	36 KR	KA2	4	0.984	1,2,3	23.01	75 RE	LY4	4	0.992	1,2
22.84	78 PT	LA1	3	1.3	3 1,2,3	23.01	34 SE	KB1	4	0.992	1,2,3
22.84	92 U	LB6	5	0.788	1,2,3	23.01	89 AC	LA2	4	0.992	1
22.86	45 RH	LY1	1	3.943	1,2,3	23.02	90 TH	LB2	5	0.794	1,2,3
22.87	80 HG	LB9	4	0.986	1,2	23.03	78 PT	LA2	3	1.324	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS						23.03 TO 23.58					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
23.03	65 TR	LA2	2	1.986	1,2,3	23.36	82 PB	LB4	4	1.007	1,2,3
23.03	83 BI	LB6	4	0.993	1,2,3	23.37	71 LU	LB10	3	1.343	1,2
23.03	34 SE	KB3	4	0.993	1,2	23.37	88 RA	LB5	5	0.806	1,2
23.07	72 HF	LB2	3	1.326	1,2,3	23.38	31 GA	KA2	3	1.344	1,2,3
23.08	83 BI	LY2	5	0.796	1,2,3	23.38	60 NC	LB9	2	2.016	1,2
23.08	73 TA	LB1	3	1.327	1,2,3	23.40	46 PC	LB3	1	4.034	1,2,3
23.10	49 IN	LN	1	3.983	1,2,3	23.40	91 PA	MA2	1	4.035	1,2
23.10	80 HG	LB10	4	0.996	1,2	23.42	68 ER	LL	2	2.019	1,2,3
23.10	76 OS	LN	3	1.328	1,2,3	23.42	73 TA	LB4	3	1.346	1,2,3
23.15	76 OS	LY2	4	0.998	1,2,3	23.43	81 TL	LB2	4	1.010	1,2,3
23.15	73 TA	LB6	3	1.331	1,2,3	23.43	91 PA	LB6	5	0.808	1,2,3
23.17	62 SM	LB1	2	1.998	1,2,3	23.43	59 PR	LY5	2	2.020	1,2
23.20	62 SM	LB4	2	2.000	1,2,3	23.43	80 HG	LB5	4	1.010	1,2
23.22	76 OS	LY6	4	1.001	1,2	23.46	45 RH	LY5	1	4.045	1,2
23.22	81 TL	LB3	4	1.001	1,2,3	23.47	60 ND	LB10	2	2.023	1,2
23.24	71 LU	LB9	3	1.336	1,2	23.47	71 LU	LB7	3	1.349	1,2
23.28	88 RA	LB3	5	0.803	1,2,3	23.49	82 PB	LL	3	1.350	1,2,3
23.29	46 PC	LB6	1	4.016	1,2,3	23.49	97 BK	LA1	5	0.810	1
23.30	60 ND	LB7	2	2.009	1,2	23.51	77 IR	LA1	3	1.351	1,2,3
23.31	31 GA	KA1	3	1.340	1,2,3	23.54	72 HF	LB3	3	1.353	1,2,3
23.31	88 RA	LA1	4	1.005	1,2,3	23.55	81 TL	LB1	4	1.015	1,2,3
23.31	98 CF	LA2	5	0.804	1	23.55	81 TL	LY4	5	0.812	1,2
23.33	91 PA	MA1	1	4.022	1,2	23.57	88 RA	LA2	4	1.016	1,2,3
23.34	92 U	LN	5	0.805	1,2,3	23.58	83 BI	LY1	5	0.813	1,2,3
23.35	71 LU	LB5	3	1.342	1,2	23.58	69 TM	LY5	3	1.355	1,2

MICA CRYSTAL, D# 9.94E ANGSTROMS							23.61 TC 24.05						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
23.61	89 AC	LB2	5	0.814	1		23.84	37 RE	KB5	5	0.822	1	
23.61	88 RA	LB1	5	0.814	1,2,3		23.84	67 HC	LY2	3	1.370	1,2,3	
23.61	50 SN	LL	1	4.071	1,2,3		23.84	97 BK	LA2	5	0.822	1	
23.61	46 PD	LB4	1	4.071	1,2,3		23.85	79 AL	LB10	4	1.028	1,2	
23.62	60 ND	LB2	2	2.036	1,2,3		23.85	74 W	LY4	4	1.028	1,2	
23.64	82 PB	LY3	5	0.815	1,2,3		23.87	64 GC	LA2	2	2.057	1,2,3	
23.64	80 HG	LB7	4	1.019	1,2		23.90	75 RE	LN	3	1.373	1,2,3	
23.67	37 RB	KB2	5	0.816	1,2,3		23.90	87 FR	LA1	4	1.030	1,2,3	
23.67	88 RA	LB7	5	0.816	1,2		23.91	72 HF	LB1	3	1.374	1,2,3	
23.68	57 LA	LY3	2	2.041	1,2,3		23.91	72 HF	LB6	3	1.374	1,2,3	
23.69	79 AU	LB9	4	1.021	1,2		23.91	66 DY	LY4	3	1.374	1,2	
23.69	82 PB	LB6	4	1.021	1,2,3		23.95	75 RE	LY2	4	1.032	1,2,3	
23.70	82 PB	LY6	5	0.817	1,2		23.97	45 RH	LB2	1	4.131	1,2,3	
23.70	77 IR	LA2	3	1.362	1,2,3		24.00	80 HG	LB3	4	1.034	1,2,3	
23.71	77 IR	LY5	4	1.022	1,2		24.01	90 TH	KA1	1	4.138	1,2	
23.74	64 GD	LA1	2	2.046	1,2,3		24.02	90 TH	LB6	5	0.828	1,2,3	
23.74	68 ER	LY1	3	1.364	1,2,3		24.03	24 CR	KB5	2	2.071	1,2	
23.74	67 HO	LY3	3	1.364	1,2,3		24.04	29 CU	KB2	3	1.381	2,3	
23.74	57 LA	LY2	2	2.046	1,2,3		24.05	91 PA	LN	5	0.829	1,2,3	
23.76	58 CE	LY1	2	2.048	1,2,3		24.05	37 RE	KB3	5	0.829	1,2	
23.77	64 GD	LN	2	2.049	1,2,3		24.05	39 Y	KA1	5	0.829	1,2,3	
23.78	76 OS	LY1	4	1.025	1,2,3		24.05	37 RB	KB1	5	0.829	1,2,3	
23.81	75 RE	LY3	4	1.026	1,2,3		24.05	96 CM	LA1	5	0.829	1	
23.81	82 PE	LY2	5	0.821	1,2,3		24.05	29 CU	KB5	3	1.382	2	
23.84	71 LU	LB2	3	1.370	1,2,3		24.05	46 PD	LB1	1	4.146	1,2,3	

MICA CRYSTAL, D# 9.942 ANGSTROMS							24.07 TO 24.46						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
24.07	75 RE	LY6	4	1.037	1,2		24.26	33 AS	KB2	4	1.045	1,2,3	
24.08	56 BA	LY4	2	2.075	1,2		24.27	59 PR	LB7	2	2.091	1,2	
24.08	90 TH	MA2	1	4.151	1,2		24.27	44 RU	LY1	1	4.182	1,2,3	
24.09	70 YB	LB9	3	1.384	1,2		24.28	70 YB	LB7	3	1.395	1,2	
24.10	47 AG	LA1	1	4.154	1,2,3		24.33	18 A	KA1	1	4.192	1,2,3	
24.11	81 TL	LL	3	1.385	1,2,3		24.33	48 CC	LN	1	4.193	1,3	
24.11	81 TL	LB4	4	1.039	1,2,3		24.34	83 BI	LY5	5	0.839	1,2	
24.14	79 AU	LB5	4	1.040	1,2		24.34	80 HG	LY4	5	0.839	1,2	
24.14	80 HG	LB2	4	1.040	1,2,3		24.34	18 A	KA2	1	4.195	1,2,3	
24.14	35 BR	KA1	4	1.040	1,2,3		24.35	33 AS	KB5	4	1.049	1,2	
24.14	70 YB	LB5	3	1.387	1,2		24.35	80 HG	LB1	4	1.049	1,2,3	
24.15	61 PM	LB1	2	2.081	1,2,3		24.37	81 TL	LB6	4	1.050	1,2,3	
24.15	47 AG	LA2	1	4.163	1,2,3		24.37	87 FR	LB1	5	0.840	1,2,3	
24.17	39 Y	KA2	5	0.833	1,2,3		24.37	82 PE	LY1	5	0.840	1,2,3	
24.18	87 FR	LA2	4	1.042	1		24.37	59 PR	LB9	2	2.100	1,2	
24.20	24 CR	KB1	2	2.085	1,2,3		24.37	79 AU	LB7	4	1.050	1,2	
24.20	24 CR	KB3	2	2.085	1,2		24.39	71 LU	LB3	3	1.401	1,2,3	
24.21	67 HO	LL	2	2.086	1,2,3		24.40	25 MN	KA1	2	2.102	1,2,3	
24.21	76 OS	LA1	3	1.391	1,2,3		24.40	81 TL	LY3	5	0.841	1,2,3	
24.21	70 YB	LB10	3	1.391	1,2		24.40	88 RA	LB4	5	0.841	1,2,3	
24.23	88 RA	LB2	5	0.835	1,2,3		24.40	96 CM	LA2	5	0.841	1	
24.23	72 HF	LB4	3	1.392	1,2,3		24.41	76 OS	LA2	3	1.402	1,2,3	
24.23	29 CU	KB1	3	1.392	1,2,3		24.42	60 NC	LB6	2	2.104	1,2,3	
24.23	35 BR	KA2	4	1.044	1,2,3		24.44	25 MN	KA2	2	2.106	1,2,3	
24.25	29 CU	KB3	3	1.393	1,2		24.46	59 PR	LB10	2	2.107	1,2	

MICA CRYSTAL, D# 9.94E ANGSTROMS						24.47 TO 24.99					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
24.47	78 PT	LB9	4	1.054	1,2	24.74	74 W	LN	3	1.421	1,2,3
24.48	68 ER	LY5	3	1.406	1,2	24.75	63 EU	LA2	2	2.132	1,2,3
24.49	81 TL	LY6	5	0.844	1,2	24.76	80 HG	LL	3	1.422	1,2,3
24.49	58 CE	LY5	2	2.110	1,2	24.77	56 BA	LY3	2	2.134	1,2,3
24.54	86 RN	LA1	4	1.057	1	24.77	92 U	LL	4	1.067	2,3
24.54	33 AS	KB1	4	1.057	1,2,3	24.78	66 OY	LY2	3	1.423	1,2,3
24.54	76 OS	LY5	4	1.057	1,2	24.78	49 IA	LL	1	4.269	1,2,3
24.56	33 AS	KB3	4	1.058	1,2	24.79	90 TH	LN	5	0.854	1,2,3
24.59	83 BI	LN	4	1.059	1,2,3	24.80	74 W	LY2	4	1.068	1,2,3
24.60	59 PR	LB2	2	2.119	1,2,3	24.80	79 AU	LB3	4	1.068	1,2,3
24.61	81 TL	LY2	5	0.848	1,2,3	24.80	71 LU	LB1	3	1.424	1,2,3
24.61	95 AM	LA1	5	0.848	1,3	24.82	86 RN	LA2	4	1.069	1
24.62	63 EU	LA1	2	2.12	1,2,3	24.82	56 BA	LY2	2	2.138	1,2,3
24.62	45 RH	LB6	1	4.242	1,2,3	24.84	79 AU	LB2	4	1.070	1,2,3
24.63	75 RE	LY1	4	1.061	1,2,3	24.85	65 TB	LY4	3	1.427	1,2
24.64	70 YB	LB2	3	1.415	1,2,3	24.87	57 LA	LY1	2	2.142	1,2,3
24.66	78 PT	LB10	4	1.062	1,2	24.89	44 RU	LY5	1	4.287	1,2
24.66	74 W	LY3	4	1.062	1,2,3	24.89	78 PT	LB5	4	1.072	1,2
24.67	66 OY	LY3	3	1.417	1,2,3	24.89	80 HG	LB4	4	1.072	1,2,3
24.67	67 HO	LY1	3	1.417	1,2,3	24.90	45 RH	LB4	1	4.289	1,2,3
24.68	45 RH	LB3	1	4.252	1,2,3	24.90	87 FR	LB2	5	0.858	1,2,3
24.68	60 NC	LB3	2	2.126	1,2,3	24.94	74 W	LY6	4	1.074	1,2
24.71	71 LU	LB6	3	1.419	1,2,3	24.96	75 RE	LA1	3	1.433	1,2,3
24.73	73 TA	LY4	4	1.065	1,2	24.96	95 AM	LA2	5	0.860	1,3
24.74	63 EU	LN	2	2.131	1	24.99	30 ZN	KA1	3	1.435	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS						25.06 TO 25.54					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
25.06	66 DY	LL	2	2.158	1,2,3	25.35	80 HG	LY6	5	0.873	1,2
25.06	30 ZN	KA2	3	1.439	1,2,3	25.36	46 PC	LA1	1	4.368	1,2,3
25.08	71 LU	LB4	3	1.440	1,2,3	25.36	82 PB	LN	4	1.092	1,2,3
25.08	80 HG	LB6	4	1.080	1,2,3	25.39	44 RU	LB2	1	4.372	1,2,3
25.10	69 TM	LB10	3	1.441	1	25.40	45 RF	LB1	1	4.374	1,2,3
25.13	78 PT	LB7	4	1.082	1,2	25.41	80 HG	LY2	5	0.875	1,2,3
25.14	36 KR	KB4	5	0.866	2	25.41	38 SR	KA1	5	0.875	1,2,3
25.14	86 RN	LB1	5	0.866	1	25.41	58 CE	LB9	2	2.188	1,2
25.14	36 KR	KB2	5	0.866	1,2,3	25.41	46 PC	LA2	1	4.376	1,2,3
25.14	82 PB	LY5	5	0.866	1,2	25.41	75 RE	LY5	4	1.094	1,2
25.15	75 RE	LA2	3	1.444	1,2,3	25.43	42 MC	LY3	1	4.380	1,2
25.16	60 ND	LB4	2	2.167	1,2,3	25.43	42 MC	LY2	1	4.380	1,2,3
25.16	60 ND	LB1	2	2.167	1,2,3	25.43	59 PR	LB6	2	2.190	1,2,3
25.17	79 AU	LB1	4	1.084	1,2,3	25.43	79 AU	LL	3	1.460	1,2,3
25.20	81 TL	LY1	5	0.868	1,2,3	25.47	67 HC	LY5	3	1.462	1,2
25.20	94 PU	LA1	5	0.868	1	25.48	77 IR	LB10	4	1.097	1,2
25.20	85 AT	LA1	4	1.085	1	25.48	85 AT	LA2	4	1.097	1
25.23	80 HG	LY3	5	0.869	1,2,3	25.49	69 TM	LB2	3	1.463	1,2,3
25.25	55 CS	LY4	2	2.174	1,2	25.49	58 CE	LB10	2	2.195	1,2
25.29	36 KR	KB5	5	0.871	1,2	25.49	36 KR	KB1	5	0.878	1,2,3
25.29	88 RA	LB6	5	0.871	1,2,3	25.52	38 SR	KA2	5	0.879	1,2,3
25.29	70 YB	LB3	3	1.452	1,2,3	25.52	36 KR	KB3	5	0.879	1,2
25.32	77 IR	LB9	4	1.090	1,2	25.53	73 TA	LY3	4	1.099	1,2,3
25.32	58 CE	LB7	2	2.180	1,2	25.53	74 W	LY1	4	1.099	1,2,3
25.34	91 PA	LL	4	1.091	1,2,3	25.54	70 YB	LB6	3	1.466	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS						25.54 TO 26.04					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
25.54	62 SM	LA1	2	2.199	1,2,3	25.79	43 TC	LY1	1	4.440	1
25.55	94 PU	LA2	5	0.880	1	25.81	79 AU	LB6	4	1.111	1,2,3
25.57	17 CL	KH1	1	4.403	1,2,3	25.82	93 NP	LA1	5	0.889	1,2,3
25.58	85 RN	LB2	5	0.881	1	25.88	68 ER	LB9	3	1.485	1,2
25.60	73 PT	LB2	4	1.102	1,2,3	25.88	64 GC	LY4	3	1.485	1,2
25.61	57 LA	LY5	2	2.205	1,2	25.88	84 PC	LA1	4	1.114	1,2,3
25.62	72 HF	LY4	4	1.103	1,2	25.88	73 TA	LY6	4	1.114	1,2
25.63	65 TR	LY3	3	1.471	1,2,3	25.91	90 TH	LL	4	1.115	1,2,3
25.63	73 TA	LN	3	1.471	1,2,3	25.91	77 IR	LB7	4	1.115	1,2
25.65	73 PT	LB3	4	1.104	1,2,3	25.91	74 W	LA2	3	1.487	1,2,3
25.66	47 AG	LN	1	4.418	1,2,3	25.94	55 CS	LY3	2	2.233	1,2,3
25.66	58 CE	LB2	2	2.209	1,2,3	25.95	28 NI	KB5	3	1.489	1,2
25.66	66 DY	LY1	3	1.473	1,2,3	25.95	28 NI	KB2	3	1.489	1,2,3
25.67	34 SE	KA1	4	1.105	1,2,3	25.95	32 GE	KB2	4	1.117	1,2,3
25.67	62 SM	LA2	2	2.210	1,2,3	25.95	65 TB	LL	2	2.234	1,2,3
25.67	73 TA	LY2	4	1.105	1,2,3	25.97	85 AT	LB1	5	0.894	1
25.69	77 IR	LB5	4	1.106	1,2	25.98	70 YB	LB4	3	1.491	1,2,3
25.72	74 W	LA1	3	1.476	1,2,3	25.99	55 CS	LY2	2	2.237	1,2,3
25.72	70 YB	LB1	3	1.476	1,2,3	26.00	81 TL	LY5	5	0.895	1,2
25.72	79 AU	LB4	4	1.107	1,2,3	26.00	32 GE	KB5	4	1.119	1,2
25.74	65 TR	LY2	3	1.477	1,2,3	26.03	78 PT	LB1	4	1.120	1,2,3
25.75	59 PR	LB3	2	2.217	1,2,3	26.03	48 CC	LL	1	4.480	1,2,3
25.75	71 LU	LN	3	1.478	1,2	26.04	68 ER	LB10	3	1.494	1,2
25.77	34 SE	KA2	4	1.109	1,2,3	26.04	56 BA	LY1	2	2.241	1,2,3
25.77	62 SM	LN	2	2.218	1,2,3	26.04	68 ER	LB7	3	1.494	1,2

MICA CRYSTAL, D# 9.94E ANGSTROMS						26.05 TO 26.59					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
26.05	80 HG	LY1	5	0.897	1,2,3	26.35	88 RA	LN	5	0.907	1,2,3
26.05	78 PT	LY4	5	0.897	1,2	26.37	23 V	KB5	2	2.269	1,2
26.07	44 RU	LB3	1	4.487	1,2,3	26.38	77 IR	LB2	4	1.135	1,2,3
26.07	44 RU	LB6	1	4.487	1,2,3	26.39	68 ER	LB2	3	1.514	1,2,3
26.08	79 AU	LY3	5	0.898	1,2,3	26.41	84 PC	LB3	5	0.909	1,2,3
26.08	83 BI	LB9	5	0.898	1,2	26.41	69 TM	LB6	3	1.515	1,2,3
26.11	84 PO	LB5	5	0.899	1,2	26.44	57 LA	LB7	2	2.275	1,2
26.13	78 PT	LL	3	1.499	1,2,3	26.45	73 TA	LY1	4	1.138	1,2,3
26.14	28 NI	KB1	3	1.500	1,2,3	26.45	72 HF	LY3	4	1.138	1,2,3
26.17	76 OS	LB9	4	1.126	1,2	26.46	66 DY	LY5	3	1.518	1,2
26.17	84 PO	LA2	4	1.126	1,2,3	26.47	92 U	LA1	5	0.911	1,2,3
26.17	93 NP	LA2	5	0.901	1	26.50	76 OS	LB5	4	1.140	1,2
26.20	59 PR	LB4	2	2.255	1,2,3	26.51	58 CE	LB6	2	2.281	1,2,3
26.21	81 TL	LN	4	1.128	1,2,3	26.52	77 IR	LB3	4	1.141	1,2,3
26.23	69 TM	LB3	3	1.505	1,2,3	26.52	57 LA	LB9	2	2.282	1,2
26.23	79 AU	LY6	5	0.903	1,2	26.53	61 PM	LA1	2	2.283	1,2,3
26.24	59 PR	LB1	2	2.258	1,2,3	26.53	73 TA	LA1	3	1.522	1,2,3
26.24	32 GE	KB3	4	1.129	1,2	26.55	78 PT	LB4	4	1.142	1,2,3
26.24	32 GE	KB1	4	1.129	1,2,3	26.55	23 V	KB1	2	2.284	1,2,3
26.26	79 AU	LY2	5	0.904	1,2,3	26.55	23 V	KB3	2	2.284	1,2
26.28	44 RU	LB4	1	4.523	1,2,3	26.55	72 HF	LN	3	1.523	1,2,3
26.29	85 AT	LB2	5	0.905	1	26.57	71 LU	LY4	4	1.143	1
26.29	83 BI	LB10	5	0.905	1,2	26.59	72 HF	LY2	4	1.144	1,2,3
26.31	74 W	LY5	4	1.132	1,2	26.59	83 BI	LA1	4	1.144	1,2,3
26.33	76 OS	LB10	4	1.133	1,2	26.59	78 PT	LB6	4	1.144	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS							26.62 TO 27.15						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
26.62	57 LA	LB12	2	2.290	1,2		26.68	35 BR	KB5	5	0.925	1,2	
26.62	24 CR	KA1	2	2.290	1,2,3		26.91	83 BI	LB5	5	0.926	1,2	
26.64	61 PM	LA2	2	2.292	1		26.91	37 RE	KA1	5	0.926	1,2,3	
26.66	64 GD	LY3	3	1.529	1,2,3		26.92	63 EU	LY4	3	1.544	1,2	
26.66	24 CR	KA2	2	2.294	1,2,3		26.92	69 TM	LB4	3	1.544	1,2,3	
26.68	69 TM	LB1	3	1.530	1,2,3		26.92	29 CU	KA2	3	1.544	1,2,3	
26.68	65 TB	LY1	3	1.530	1,2,3		26.92	77 IR	LB1	4	1.158	1,2,3	
26.71	76 OS	LB7	4	1.149	1,2		26.94	77 IR	LY4	5	0.927	1,2	
26.72	45 RH	LA1	1	4.597	1,2,3		26.94	79 AU	LY1	5	0.927	1,2,3	
26.73	73 TA	LA2	3	1.533	1,2,3		26.94	82 PE	LB9	5	0.927	1,2	
26.75	64 GD	LY2	3	1.534	1,2,3		26.95	43 TC	LB2	1	4.636	1	
26.76	45 RH	LA2	1	4.645	1,2,3		26.97	78 PT	LY3	5	0.928	1,2,3	
26.76	35 BR	KB2	5	0.921	1,2,3		27.00	84 PC	LB2	5	0.929	1,2,3	
26.77	57 LA	LB2	2	2.303	1,2,3		27.01	67 HC	LB10	3	1.549	1	
26.79	92 U	LA2	5	0.922	1,2,3		27.03	37 RE	KA2	5	0.930	1,2,3	
26.79	84 FO	LB1	5	0.922	1,2,3		27.06	41 NE	LY2	1	4.654	1,2,3	
26.83	56 BA	LY5	2	2.308	1,2		27.06	41 NE	LY3	1	4.654	1,2	
26.85	72 HF	LY6	4	1.155	1,2		27.07	80 HG	LN	4	1.164	1,2,3	
26.85	83 BI	LA2	4	1.155	1,2,3		27.09	46 PC	LN	1	4.660	1,2,3	
26.85	44 RU	LB1	1	4.620	1,2,3		27.09	75 RE	LB9	4	1.165	1,2	
26.85	83 HG	LY5	5	0.924	1,2		27.12	35 BR	KB3	5	0.933	1,2	
26.87	58 CE	LB3	2	2.311	1,2,3		27.12	91 PA	LA1	5	0.933	1,2,3	
26.87	77 IR	LL	3	1.541	1,2,3		27.12	35 BR	KB1	5	0.933	1,2,3	
26.87	29 CU	KA1	3	1.541	1,2,3		27.14	88 RA	LL	4	1.167	1,2,3	
26.88	64 GD	LL	2	2.312	1,2,3		27.15	78 PT	LY2	5	0.934	1,2,3	

MICA CRYSTAL, D# 9.94E ANGSTROMS						27.15 TO 27.80					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
27.15	82 PB	LB10	5	0.934	1,2	27.48	42 MC	LY1	1	4.726	1,2,3
27.15	78 PT	LY6	5	0.934	1,2	27.49	17 CL	KA1	1	4.728	1,2,3
27.18	83 BI	LB7	5	0.935	1,2	27.51	17 CL	KA2	1	4.730	1,2,3
27.21	76 OS	LB2	4	1.170	1,2,3	27.51	65 TB	LY5	3	1.577	1
27.23	68 ER	LB3	3	1.561	1,2,3	27.51	65 TB	LB5	3	1.577	2
27.26	75 RE	LB10	4	1.172	1,2	27.54	84 PC	LB4	5	0.947	1,2,3
27.28	73 TA	LY5	4	1.173	1,2	27.56	72 HF	LA2	3	1.580	1,2,3
27.30	83 BI	LB3	5	0.939	1,2,3	27.56	70 YB	LY4	4	1.185	1,2
27.30	55 CS	LY1	2	2.348	1,2,3	27.56	71 LU	LY2	4	1.185	1,2,3
27.32	58 CE	LB4	2	2.349	1,2,3	27.56	60 ND	LA1	2	2.370	1,2,3
27.33	82 PB	LA1	4	1.175	1,2,3	27.59	75 RE	LB7	4	1.186	1,2
27.33	67 HO	LB2	3	1.567	1,2,3	27.59	82 PB	LA2	4	1.186	1,2,3
27.33	68 ER	LB6	3	1.567	1,2,3	27.64	56 BA	LB9	2	2.376	1,2
27.35	33 AS	KA1	4	1.176	1,2,3	27.65	76 OS	LL	3	1.585	1,2,3
27.37	72 HF	LA1	3	1.569	1,2,3	27.67	57 LA	LB6	2	2.379	1,2,3
27.37	47 AG	LL	1	4.707	1,2,3	27.68	60 ND	LA2	2	2.380	1,3
27.38	75 RE	LB5	4	1.177	1,2	27.68	83 BI	LB1	5	0.952	1,2,3
27.40	58 CE	LB1	2	2.356	1,2,3	27.69	68 ER	LB1	3	1.587	1,2,3
27.40	77 IR	LB6	4	1.178	1,2,3	27.71	82 PB	LB5	5	0.953	1,2
27.42	72 HF	LY1	4	1.179	1,2,3	27.76	63 EU	LY3	3	1.591	1,2,3
27.42	71 LU	LY3	4	1.179	1,2,3	27.77	56 BA	LB10	2	2.387	1,2
27.45	77 IR	LB4	4	1.180	1,2,3	27.77	83 BI	LB2	5	0.955	1,2,3
27.45	33 AS	KA2	4	1.180	1,2,3	27.78	64 GD	LY1	3	1.592	1,2,3
27.45	76 OS	LB3	4	1.180	1,2,3	27.80	79 AU	LY5	5	0.956	1,2
27.48	91 PA	LA2	5	0.945	1,2,3	27.80	90 TH	LA1	5	0.956	1,2,3

MICA CRYSTAL, D# 9.948 ANGSTROMS						27.81 TO 28.42					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
27.81	53 I	LY4	2	2.391	1,2	28.09	81 TL	LA1	4	1.207	1,2,3
27.83	31 GA	KB2	4	1.196	1,2,3	28.09	75 RE	LB2	4	1.207	1,2,3
27.83	81 TL	LB9	5	0.957	1,2	28.11	31 GA	KB1	4	1.208	1,2,3
27.85	76 OS	LB1	4	1.197	1,2,3	28.11	31 GA	KB3	4	1.208	1,2
27.85	31 GA	KB5	4	1.197	1,2	28.12	55 CS	LY5	2	2.417	1,2
27.86	78 PT	LY1	5	0.958	1,2,3	28.13	77 IR	LY6	5	0.967	1,2
27.86	63 EU	LL	2	2.355	1,2,3	28.13	84 PC	LB6	5	0.967	1,2,3
27.87	63 EU	LY2	3	1.597	1,2,3	28.14	42 MC	LY5	1	4.837	1,2
27.87	71 LU	LY6	4	1.198	1,2	28.16	90 TH	LA2	5	0.968	1,2,3
27.89	77 IR	LY3	5	0.959	1,2,3	28.19	82 PE	LB3	5	0.969	1,2,3
27.89	76 OS	LY4	5	0.959	1,2	28.19	44 RU	LA1	1	4.846	1,2,3
27.90	66 DY	LB7	3	1.599	1,2	28.21	74 W	LB10	4	1.212	1,2
27.92	66 DY	LB9	3	1.600	1	28.23	76 OS	LB6	4	1.213	1,2,3
27.94	68 ER	LB4	3	1.601	1,2,3	28.24	44 RU	LA2	1	4.853	1,2,3
27.97	56 BA	LB2	2	2.404	1,2,3	28.26	71 LU	LA1	3	1.619	1,2,3
27.98	82 PR	LB7	5	0.962	1,2	28.26	67 HC	LB3	3	1.619	1,2,3
27.99	79 AU	LN	4	1.203	1,2,3	28.28	74 W	LB5	4	1.215	1,2
28.02	74 W	LB9	4	1.204	1,2	28.28	72 HF	LY5	4	1.215	1,2
28.03	62 SM	LY4	3	1.606	1,2	28.29	27 CC	KB1	3	1.621	1,2,3
28.03	60 ND	LN	2	2.409	1,2,3	28.31	67 HC	LB6	3	1.622	1,2,3
28.04	57 LA	LB3	2	2.410	1,2,3	28.33	66 DY	LB2	3	1.623	1,2,3
28.04	81 TL	LB10	5	0.964	1,2	28.35	76 OS	LB4	4	1.218	1,2,3
28.05	66 DY	LB10	3	1.607	1	28.37	81 TL	LA2	4	1.219	1,2,3
28.07	77 IR	LY2	5	0.965	1,2,3	28.40	75 RE	LB3	4	1.220	1,2,3
28.08	27 CO	KB5	3	1.609	1,2	28.42	43 TC	LB1	1	4.864	1

MICA CRYSTAL, D# 9.94E ANGSTROMS						28.43 TO 28.94					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
28.43	83 BI	LB4	5	0.977	1,2,3	28.67	59 PR	LA1	2	2.463	1,2,3
28.44	70 YB	LY3	4	1.222	1,2,3	28.69	80 HG	LB9	5	0.986	1,2
28.44	71 LU	LY1	4	1.222	1,2,3	28.75	78 PT	LY5	5	0.988	1,2
28.46	71 LU	LA2	3	1.630	1,2,3	28.76	67 HC	LB1	3	1.647	1,2,3
28.46	75 RE	LL	3	1.630	1,2,3	28.79	59 PR	LA2	2	2.473	1,2,3
28.48	53 I	LY3	2	2.447	1,2	28.81	81 TL	LB7	5	0.990	1,2
28.48	53 I	LY2	2	2.447	1,2,3	28.82	46 PC	LL	1	4.952	1,2,3
28.49	74 W	LB7	4	1.224	1,2	28.83	40 ZR	LY3	1	4.953	1,2
28.50	57 LA	LB4	2	2.449	1,2,3	28.83	40 ZR	LY2	1	4.953	1,2,3
28.51	34 SE	KB2	5	0.980	1,2,3	28.84	77 IR	LY1	5	0.991	1,2,3
28.51	89 AC	LA1	5	0.980	1	28.85	55 CS	LB9	2	2.478	1,2
28.51	36 KR	KA1	5	0.980	1,2,3	28.85	75 RE	LB1	4	1.239	1,2,3
28.54	81 TL	LB5	5	0.981	1,2	28.87	76 CS	LY3	5	0.992	1,2,3
28.56	70 YB	LN	3	1.636	1,2,3	28.87	34 SE	KB1	5	0.992	1,2,3
28.57	82 PB	LB1	5	0.982	1,2,3	28.87	89 AC	LA2	5	0.992	1
28.60	82 PB	LB2	5	0.983	1,2,3	28.87	75 RE	LY4	5	0.992	1,2
28.61	69 TM	LY4	4	1.229	1	28.90	56 BA	LB6	2	2.482	1,2,3
28.61	70 YB	LY2	4	1.229	1,2,3	28.90	80 HG	LA1	4	1.241	1,2,3
28.61	57 LA	LB1	2	2.458	1,2,3	28.90	62 SM	LL	2	2.482	1,2,3
28.63	36 KR	KA2	5	0.984	1,2,3	28.90	34 SE	KB3	5	0.993	1,2
28.63	34 SE	KB5	5	0.984	1,2	28.90	62 SM	LY3	3	1.655	1,2,3
28.65	45 RH	LN	1	4.922	1,2,3	28.90	83 BI	LB6	5	0.993	1,2,3
28.65	64 GD	LY5	3	1.641	1	28.93	55 CS	LB7	2	2.485	1,2
28.65	42 MC	LB2	1	4.923	1,2,3	28.94	78 PT	LN	4	1.243	1,2,3
28.66	54 XE	LY1	2	2.462	1	28.94	70 YB	LY6	4	1.243	1,2

MICA CRYSTAL. D# 9.94E ANGSTROMS						28.95 TO 29.54					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
28.95	63 EU	LY1	3	1.658	1,2,3	29.24	55 CS	LB2	2	2.511	1,2,3
28.95	28 NI	KA1	3	1.658	1,2,3	29.25	59 PR	LN	2	2.512	1,2,3
28.97	67 HO	LB4	3	1.659	1,2,3	29.26	88 RA	LA1	5	1.005	1,2,3
28.97	62 SM	LY2	3	1.659	1,2,3	29.28	22 TI	KB1	2	2.514	1,2,3
28.97	65 TB	LB7	3	1.659	1,2	29.28	22 TI	KB3	2	2.514	1,2
28.99	80 HG	LB10	5	0.996	1,2	29.30	56 BA	LB3	2	2.515	1,2,3
28.99	74 W	LB2	4	1.245	1,2,3	29.30	16 S	KB1	1	5.032	1,2,3
29.01	55 CS	LB10	2	2.493	1,2	29.30	32 GE	KA2	4	1.258	1,2,3
29.01	73 TA	LB9	4	1.245	1,2	29.31	74 W	LL	3	1.678	1,2,3
29.03	28 NI	KA2	3	1.662	1,2,3	29.32	82 PE	LB4	5	1.007	1,2,3
29.05	76 OS	LY2	5	0.993	1,2,3	29.32	41 NE	LY1	1	5.036	1,2,3
29.09	22 TI	KB5	2	2.493	1,2	29.32	75 RE	LB4	4	1.259	1,2,3
29.12	65 TB	LB10	3	1.667	1,2	29.35	71 LU	LY5	4	1.260	1,2
29.13	75 RE	LB6	4	1.251	1,2,3	29.37	66 CY	LB6	3	1.681	1,2,3
29.14	76 OS	LY6	5	1.001	1,2	29.37	66 CY	LB3	3	1.681	1,2,3
29.14	81 TL	LB3	5	1.001	1,2,3	29.38	65 TE	LB2	3	1.682	1,2,3
29.14	23 V	KA1	2	2.503	1,2,3	29.40	42 MC	LB6	1	5.049	1,2,3
29.18	80 HG	LA2	4	1.253	1,2,3	29.40	42 MC	LB4	1	5.049	1,2,3
29.19	42 MO	LB3	1	5.013	1,2,3	29.40	70 YE	LA2	3	1.683	1,2,3
29.19	23 V	KA2	2	2.507	1,2,3	29.41	80 HG	LB5	5	1.010	1,2
29.20	70 YB	LA1	3	1.672	1,2,3	29.41	81 TL	LB2	5	1.010	1,2,3
29.20	32 GE	KA1	4	1.254	1,2,3	29.42	74 W	LB3	4	1.263	1,2,3
29.20	73 TA	LB10	4	1.254	1,2	29.44	73 TA	LB7	4	1.264	1,2
29.23	73 TA	LB5	4	1.255	1,2	29.54	69 TM	LY3	4	1.268	1,2,3
29.24	52 TE	LY4	2	2.511	1,2	29.54	70 YE	LY1	4	1.268	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS						29.56 TO 30.22					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
29.56	81 TL	LB1	5	1.015	1,2,3	29.92	30 ZN	KB2	4	1.284	1,2,3
29.59	88 RA	LA2	5	1.016	1,2,3	29.92	77 IR	LN	4	1.284	1,2,3
29.63	69 TM	LN	3	1.696	1,2,3	29.94	30 ZN	KB5	4	1.285	1,2
29.67	80 HG	LB7	5	1.019	1,2	29.94	58 CE	LA2	2	2.570	1,2,3
29.68	69 TM	LY2	4	1.274	1,2,3	29.94	79 AU	LB10	5	1.028	1,2
29.73	79 AU	LA1	4	1.276	1,3	29.94	74 W	LY4	5	1.028	1,2
29.73	68 ER	LY4	4	1.276	1,2	30.00	87 FR	LA1	5	1.030	1,2,3
29.73	82 PB	LB6	5	1.021	1,2,3	30.01	41 NE	LY5	1	5.151	1,2
29.73	79 AU	LB9	5	1.021	1,2	30.01	79 AU	LA2	4	1.288	1,2,3
29.76	56 BA	LB4	2	2.555	1,2,3	30.06	66 DY	LB4	3	1.720	1,2,3
29.76	77 IR	LY5	5	1.022	1,2	30.06	75 RE	LY2	5	1.032	1,2,3
29.79	43 TC	LA1	1	5.114	1	30.06	72 HF	LB9	4	1.290	1,2
29.81	83 BI	MA1	1	5.118	1,2	30.06	69 TM	LY6	4	1.290	1
29.84	58 CE	LA1	2	2.561	1,2,3	30.06	74 W	LB6	4	1.290	1,2,3
29.84	43 TC	LA2	1	5.123	1	30.09	53 I	LY1	2	2.582	1,2,3
29.85	63 EU	LY5	3	1.708	1,2	30.12	64 GC	LB7	3	1.723	1,2
29.85	76 OS	LY1	5	1.025	1,2,3	30.12	80 HG	LB3	5	1.034	1,2,3
29.87	74 W	LB1	4	1.282	1,2,3	30.13	64 GC	LB9	3	1.724	1
29.88	83 BI	MA2	1	5.129	1,2	30.16	42 MC	LB1	1	5.177	1,2,3
29.88	75 RE	LY3	5	1.026	1,2,3	30.17	69 TM	LA1	3	1.726	1,2,3
29.88	66 DY	LB1	3	1.710	1,2,3	30.18	30 ZN	KB1	4	1.295	1,2,3
29.91	52 TE	LY2	2	2.567	1,3	30.19	62 SM	LY1	3	1.727	1,2,3
29.91	52 TE	LY3	2	2.567	1,2	30.21	73 TA	LL	3	1.728	1,2,3
29.91	56 BA	LB1	2	2.567	1,2,3	30.21	75 RE	LY6	5	1.037	1,2
29.92	73 TA	LB2	4	1.284	1,2,3	30.22	55 CS	LB6	2	2.593	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS							30.25 TO 30.89					
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF
30.25	72 HF	LB5	4	1.298	1,2		30.57	80 HG	LB1	5	1.049	1,2,3
30.25	72 HF	LB10	4	1.298	1,2		30.60	79 AU	LB7	5	1.050	1,2
30.26	64 GD	LB10	3	1.731	1,2		30.60	81 TL	LB6	5	1.050	1,2,3
30.27	8 TL	LB4	5	1.029	1,2,3		30.61	78 PT	LA1	4	1.313	1,2,3
30.30	80 HG	LB2	5	1.040	1,2,3		30.61	54 XE	LB2	2	2.626	1
30.30	33 BR	KA1	5	1.040	1,2,3		30.64	55 CS	LB3	2	2.628	1,2,3
30.30	72 AU	LB5	5	1.040	1,2		30.66	69 TM	LY1	4	1.315	1,2,3
30.33	44 RU	LN	1	5.205	1,2,3		30.66	68 ER	LY3	4	1.315	1,2,3
30.35	74 W	LB4	4	1.302	1,2,3		30.68	83 BI	LL	4	1.316	1,2,3
30.36	87 FR	LA2	5	1.042	1		30.71	68 ER	LN	3	1.756	1,2,3
30.37	69 TM	LA2	3	1.737	1,2,3		30.72	78 PT	LB9	5	1.054	1,2
30.40	45 RH	LL	1	5.27	1,2,3		30.72	26 FE	KB1	3	1.757	1,2,3
30.42	35 BR	KA2	5	1.044	1,2,3		30.77	51 SB	LY4	2	2.639	1,2
30.44	65 TB	LB6	3	1.741	1,2,3		30.80	39 Y	LY3	1	5.283	2
30.44	72 HF	LB7	4	1.306	1,2		30.80	39 Y	LY2	1	5.283	1,2,3
30.44	70 YB	LY5	4	1.316	1,2		30.80	68 ER	LY2	4	1.321	1,2,3
30.45	33 AS	KB2	5	1.045	1,2,3		30.81	82 PB	MA1	1	5.285	1,2
30.47	73 TA	LB3	4	1.307	1,2,3		30.81	86 RA	LA1	5	1.057	1
30.49	60 ND	LY4	3	1.744	1,2		30.81	76 OS	LY5	5	1.057	1,2
30.49	26 FE	KB5	3	1.744	1,2		30.81	33 AS	KB1	5	1.057	1,2,3
30.51	64 GD	LB2	3	1.745	1,2,3		30.83	67 HC	LY4	4	1.322	1,2
30.53	41 NB	LB2	1	5.238	1,2,3		30.84	33 AS	KB3	5	1.058	1,2
30.53	65 TB	LB3	3	1.746	1,2,3		30.87	83 BI	LN	5	1.059	1,2,3
30.54	58 CE	LN	2	2.620	1,2,3		30.88	78 PT	LA2	4	1.324	1,2,3
30.57	33 AS	KB5	5	1.049	1,2		30.89	82 PB	MA2	1	5.299	1,2

MICA CRYSTAL, D# 9.94E ANGSTROMS							30.92 TO 31.50						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
30.92	72 HF	LB2	4	1.326	1,2,3		31.21	60 ND	LL	2	2.676	1,2,3	
30.93	75 RE	LY1	5	1.061	1,2,3		31.23	65 TB	LB4	3	1.785	1,2,3	
30.95	73 TA	LB1	4	1.327	1,2,3		31.26	80 HG	LB4	5	1.072	1,2,3	
30.96	74 W	LY3	5	1.062	1,2,3		31.26	78 PT	LB5	5	1.072	1,2	
30.96	41 NB	LB3	1	5.310	1,2,3		31.26	31 GA	KA1	4	1.340	1,2,3	
30.96	78 PT	LB10	5	1.062	1,2		31.26	41 NB	LB6	1	5.361	1,2,3	
30.97	76 OS	LN	4	1.328	1,2,3		31.28	63 EU	LB7	3	1.788	1,2	
30.98	53 I	LY5	2	2.657	1,2		31.29	55 CS	LB1	2	2.683	1,2,3	
31.04	73 TA	LB6	4	1.331	1,2,3		31.30	27 CC	KA1	3	1.789	1,2,3	
31.05	73 TA	LY4	5	1.065	1,2		31.30	71 LU	LB5	4	1.342	1,2	
31.07	65 TB	LB1	3	1.776	1,2,3		31.32	74 W	LY6	5	1.074	1,2	
31.08	57 LA	LA1	2	2.665	1,2,3		31.33	71 LU	LB10	4	1.343	1,2	
31.09	55 CS	LB4	2	2.666	1,2,3		31.33	16 S	KA1	1	5.372	1,2,3	
31.11	92 U	LL	5	1.067	2,3		31.35	16 S	KA2	1	5.375	1,2,3	
31.12	62 SM	LY5	3	1.779	1		31.35	63 EU	LB9	3	1.792	1,2	
31.12	62 SM	LB5	3	1.779	2		31.35	31 GA	KA2	4	1.344	1,2,3	
31.14	79 AU	LB3	5	1.068	1,2,3		31.37	27 CC	KA2	3	1.793	1,2,3	
31.14	74 W	LY2	5	1.068	1,2,3		31.40	73 TA	LB4	4	1.346	1,2,3	
31.16	72 HF	LL	3	1.781	1,2,3		31.40	40 ZR	LY1	1	5.384	1,2,3	
31.16	71 LU	LB9	4	1.336	1,2		31.42	60 ND	LY3	3	1.796	1,2,3	
31.17	41 NB	LB4	1	5.345	1,2,3		31.42	68 ER	LA2	3	1.796	1,2,3	
31.17	86 RN	LA2	5	1.069	1		31.44	51 SB	LY2	2	2.695	1,2,3	
31.18	57 LA	LA2	2	2.674	1,2,3		31.44	51 SB	LY3	2	2.695	1,2	
31.20	79 AU	LB2	5	1.070	1,2,3		31.47	71 LU	LB7	4	1.349	1,2	
31.21	68 ER	LA1	3	1.784	1,2,3		31.50	80 HG	LB6	5	1.080	1,2,3	

MICA CRYSTAL, D# 9.94E ANGSTROMS							31.50 TO 32.18						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
31.50	63 EU	LB10	3	1.820	1,2		31.86	82 PB	LN	5	1.052	1,2,3	
31.50	82 PB	LL	4	1.350	1,2,3		31.86	81 TL	MA1	1	5.461	1,2	
31.51	60 ND	LY2	3	1.821	1,2,3		31.92	75 RE	LY5	5	1.094	1,2	
31.52	77 IR	LA1	4	1.351	1,2,3		31.93	81 TL	MA2	1	5.472	1,2	
31.53	42 MD	LA1	1	5.406	1,2,3		31.96	67 HC	LN	3	1.826	1,2,3	
31.56	76 PT	LB7	5	1.082	1,2		31.98	57 LA	LN	2	2.740	1,2,3	
31.57	72 HF	LB3	4	1.353	1,2,3		31.98	71 LU	LB2	4	1.370	1,2,3	
31.58	42 MD	LA2	1	5.414	1,2,3		31.98	67 HC	LY2	4	1.370	1,2,3	
31.62	70 AU	LB1	5	1.084	1,2,3		32.01	77 IR	LB10	5	1.097	1,2	
31.62	60 TM	LY5	4	1.355	1,2		32.01	85 AT	LA2	5	1.097	1	
31.62	64 GD	LB6	3	1.807	1,2,3		32.05	75 RE	LN	4	1.373	1,2,3	
31.64	52 TE	LY1	2	2.72	1,2,3		32.05	41 NB	LB1	1	5.492	1,2,3	
31.65	85 AT	LA1	5	1.085	1		32.06	73 TA	LY3	5	1.099	1,2,3	
31.65	53 I	LB9	2	2.73	1,2		32.06	74 W	LY1	5	1.099	1,2,3	
31.71	63 EU	LB2	3	1.82	1,2,3		32.07	66 DY	LY4	4	1.374	1,2	
31.74	53 I	LB10	2	2.720	1,2		32.07	72 HF	LB1	4	1.374	1,2,3	
31.77	64 GD	LB3	3	1.815	1,2,3		32.07	72 HF	LB6	4	1.374	1,2,3	
31.78	61 PM	LY1	3	1.816	1		32.07	22 TI	KA1	2	2.748	1,2,3	
31.78	77 IR	LA2	4	1.352	1,2,3		32.08	40 ZR	LY5	1	5.497	1,2	
31.80	77 IR	LB9	5	1.090	1,2		32.09	53 I	LB2	2	2.750	1,2,3	
31.83	91 PA	LL	5	1.091	1,2,3		32.11	44 RU	LL	1	5.553	1,2,3	
31.83	68 ER	LY1	4	1.354	1,2,3		32.12	22 TI	KA2	2	2.752	1,2,3	
31.83	67 HO	LY3	4	1.354	1,2,3		32.14	71 LU	LL	3	1.836	1,2,3	
31.84	59 PR	LY4	3	1.819	1,2		32.15	78 PT	LB2	5	1.102	1,2,3	
31.85	53 I	LB7	2	2.730	1,2		32.18	72 HF	LY4	5	1.103	1,2	

MICA CRYSTAL, D# 9.94E ANGSTROMS						32.21 TO 32.89					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
32.21	78 PT	LB3	5	1.104	1,2,3	32.50	29 CU	KB1	4	1.392	1,2,3
32.24	29 CU	KB2	4	1.381	2,3	32.50	67 HC	LA2	3	1.856	1,2,3
32.24	34 SE	KA1	5	1.105	1,2,3	32.51	84 PC	LA1	5	1.114	1,2,3
32.24	73 TA	LY2	5	1.105	1,2,3	32.51	56 BA	LA2	2	2.785	1,2,3
32.26	29 CU	KB5	4	1.382	2	32.51	73 TA	LY6	5	1.114	1,2
32.26	21 SC	KB5	2	2.764	1,2	32.53	29 CU	KB3	4	1.393	1,2
32.27	77 IR	LB5	5	1.106	1,2	32.54	90 TH	LL	5	1.115	1,2,3
32.30	79 AU	LB4	5	1.107	1,2,3	32.54	77 IR	LB7	5	1.115	1,2
32.30	67 HC	LA1	3	1.845	1,2,3	32.57	52 TE	LY5	2	2.790	1,2
32.31	70 YB	LB9	4	1.384	1,2	32.57	70 YB	LB7	4	1.395	1,2
32.32	64 GD	LB1	3	1.846	1,2,3	32.59	62 SM	LB9	3	1.861	1,2
32.33	81 TL	LL	4	1.385	1,2,3	32.60	32 GE	KB2	5	1.117	1,2,3
32.36	34 SE	KA2	5	1.109	1,2,3	32.61	40 ZR	LB2	1	5.586	2,3
32.38	70 YB	LB5	4	1.387	1,2	32.66	32 GE	KB5	5	1.119	1,2
32.39	56 BA	LA1	2	2.775	1,2,3	32.69	78 PT	LB1	5	1.120	1,2,3
32.42	50 SN	LY4	2	2.777	1,2	32.72	71 LU	LB3	4	1.401	1,2,3
32.42	79 AU	LB6	5	1.111	1,2,3	32.73	54 XE	LB1	2	2.803	1
32.45	64 GD	LB4	3	1.853	1,2,3	32.74	62 SM	LB10	3	1.869	1,2
32.45	21 SC	KB1	2	2.780	1,2,3	32.74	76 OS	LA2	4	1.402	1,2,3
32.48	76 OS	LA1	4	1.391	1,2,3	32.83	63 EU	LB6	3	1.874	1,2,3
32.48	70 YB	LB10	4	1.391	1,2	32.83	59 PR	LY3	3	1.874	1,2,3
32.48	60 ND	LY6	3	1.855	2	32.84	68 ER	LY5	4	1.406	1,2
32.50	72 HF	LB4	4	1.392	1,2,3	32.88	84 PC	LA2	5	1.126	1,2,3
32.50	59 PR	LL	2	2.784	1,2,3	32.88	76 OS	LB9	5	1.126	1,2
32.50	62 SM	LB7	3	1.856	1,2	32.89	40 ZR	LB3	1	5.633	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS						32.90 TC 33.49					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
32.90	60 ND	LY1	3	1.873	1,2,3	33.24	73 TA	LY1	5	1.138	1,2,3
32.92	59 PR	LY2	3	1.877	1,2,3	33.24	72 HF	LY3	5	1.138	1,2,3
32.93	81 TL	LN	5	1.123	1,2,3	33.24	66 DY	LN	3	1.897	1,2,3
32.96	38 SR	LY2	1	5.644	1,2,3	33.24	25 MN	KB5	3	1.897	1,2
32.96	38 SR	LY3	1	5.644	1,2	33.25	66 DY	LY2	4	1.423	1,2,3
32.96	32 GE	KB1	5	1.129	1,2,3	33.26	52 TE	LB10	2	2.847	1,2
32.96	32 GE	KB3	5	1.129	1,2	33.27	71 LU	LB1	4	1.424	1,2,3
32.97	62 SM	LB2	3	1.882	1,2,3	33.28	58 CE	LY4	3	1.899	1,2
33.05	70 YB	LB2	4	1.415	1,2,3	33.30	76 OS	LB5	5	1.140	1,2
33.05	74 W	LY5	5	1.132	1,2	33.31	51 SB	LY1	2	2.851	1,2,3
33.06	63 EU	LB3	3	1.887	1,2,3	33.33	77 IR	LB3	5	1.141	1,2,3
33.09	76 OS	LB10	5	1.133	1,2	33.34	65 TB	LY4	4	1.427	1,2
33.09	80 HG	MA1	1	5.666	1,2	33.36	40 ZR	LB6	1	5.710	1,2,3
33.09	50 SW	LY2	2	2.833	1,3	33.36	78 PT	LB4	5	1.142	1,2,3
33.09	80 HG	MA2	1	5.666	1,2	33.39	71 LU	LY4	5	1.143	1
33.10	67 HO	LY1	4	1.417	1,2,3	33.42	72 HF	LY2	5	1.144	1,2,3
33.10	66 DY	LY3	4	1.417	1,2,3	33.42	83 BI	LA1	5	1.144	1,2,3
33.10	40 ZR	LB4	1	5.668	1,2,3	33.42	78 PT	LB6	5	1.144	1,2,3
33.14	53 I	LB6	2	2.837	1,2,3	33.44	41 NB	LA1	1	5.724	1,2,3
33.15	77 IR	LB2	5	1.135	1,2,3	33.44	56 BA	LN	2	2.862	1,2,3
33.15	71 LU	LB6	4	1.419	1,2,3	33.45	52 TE	LB7	2	2.863	1,2
33.16	52 TE	LB9	2	2.839	1,2	33.46	66 CY	LA1	3	1.909	1,2,3
33.19	70 YB	LL	3	1.894	1,2,3	33.48	25 MN	KB1	3	1.910	1,2,3
33.20	74 W	LN	4	1.421	1,2,3	33.49	41 NB	LA2	1	5.732	2,3
33.22	80 HG	LL	4	1.422	1,2,3	33.49	75 RE	LA1	4	1.433	1,2,3

MICA CRYSTAL, DH 9.94E ANGSTROMS						33.54 TO 34.40					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
33.54	30 ZN	KA1	4	1.435	1,2,3	34.11	88 RA	LL	5	1.167	1,2,3
33.57	76 OS	LB7	5	1.149	1,2	34.11	40 ZR	LB1	1	5.836	1,2,3
33.58	53 I	LB3	2	2.874	1,2,3	34.13	62 SM	LB6	3	1.946	1,2,3
33.63	30 ZN	KA2	4	1.439	1,2,3	34.14	79 AU	MA1	1	5.840	1,2
33.66	71 LU	LB4	4	1.440	1,2,3	34.14	79 AU	LL	4	1.460	1,2,3
33.66	63 EU	LB1	3	1.920	1,2,3	34.18	42 MC	LN	1	5.847	1,2,3
33.66	66 DY	LA2	3	1.920	1,2,3	34.19	67 HC	LY5	4	1.462	1,2
33.68	52 TE	LB2	2	2.882	1,2,3	34.20	76 OS	LB2	5	1.170	1,2,3
33.68	69 TM	LB10	4	1.441	1	34.21	49 IN	LY4	2	2.926	1,2
33.75	72 HF	LY6	5	1.155	1,2	34.21	69 TM	LB2	4	1.463	1,2,3
33.75	83 BI	LA2	5	1.155	1,2,3	34.22	79 AU	MA2	1	5.854	1,2
33.75	75 RE	LA2	4	1.444	1,2,3	34.26	75 RE	LB10	5	1.172	1,2
33.76	63 EU	LB4	3	1.926	1,2,3	34.28	51 SB	LY5	2	2.932	1,2
33.80	55 CS	LA1	2	2.892	1,2,3	34.28	70 YB	LB6	4	1.466	1,2,3
33.80	58 CE	LL	2	2.892	1,2,3	34.29	69 TM	LL	3	1.955	1,2,3
33.84	77 IR	LB1	5	1.158	1,2,3	34.29	58 CE	LY3	3	1.955	1,2,3
33.92	55 CS	LA2	2	2.902	1,2,3	34.29	73 TA	LY5	5	1.173	1,2
33.92	15 P	KB1	1	5.804	1,2,3	34.32	61 PM	LB2	3	1.957	1
33.93	60 ND	LY5	3	1.935	1,2	34.34	53 I	LB1	2	2.937	1,2,3
33.95	26 FE	KA1	3	1.936	1,2,3	34.35	39 Y	LY5	1	5.875	1,2
33.95	70 YB	LB3	4	1.452	1,2,3	34.35	82 PB	LA1	5	1.175	1,2,3
34.02	26 FE	KA2	3	1.940	1,2,3	34.38	33 AS	KA1	5	1.176	1,2,3
34.02	80 HG	LN	5	1.164	1,2,3	34.38	58 CE	LY2	3	1.960	1,2,3
34.04	53 I	LB4	2	2.912	1,2,3	34.40	59 PR	LY1	3	1.961	1,2,3
34.05	75 RE	LB9	5	1.165	1,2	34.40	73 TA	LN	4	1.471	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS						34.40 TC 35.21					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
34.40	65 TB	LY3	4	1.471	1,2,3	34.80	57 LA	LY4	3	1.983	1,2
34.41	75 RE	LB5	5	1.177	1,2	34.84	28 NI	KB2	4	1.489	1,2,3
34.42	62 SM	LB3	3	1.962	1,2,3	34.84	28 NI	KB5	4	1.489	1,2
34.44	77 IR	LB6	5	1.178	1,2,3	34.85	51 SB	LB10	2	2.979	1,2
34.45	66 DY	LY1	4	1.473	1,2,3	34.85	65 TB	LA2	3	1.986	1,2,3
34.47	71 LU	LY3	5	1.179	1,2,3	34.86	49 IN	LY2	2	2.980	1,2,3
34.47	72 HF	LY1	5	1.179	1,2,3	34.86	49 IN	LY3	2	2.980	1,2
34.50	76 OS	LB3	5	1.180	1,2,3	34.89	70 YB	LB4	4	1.491	1,2,3
34.50	77 IR	LB4	5	1.180	1,2,3	34.96	68 ER	LB7	4	1.494	1,2
34.50	33 AS	KA2	5	1.180	1,2,3	34.96	68 ER	LB10	4	1.494	1,2
34.52	74 W	LA1	4	1.476	1,2,3	34.98	31 GA	KB2	5	1.196	1,2,3
34.52	70 YB	LB1	4	1.476	1,2,3	35.00	39 Y	LB3	1	5.983	1,2,3
34.55	65 TB	LY2	4	1.477	1,2,3	35.01	76 OS	LB1	5	1.197	1,2,3
34.57	71 LU	LN	4	1.478	1,2	35.01	31 GA	KB5	5	1.197	1,2
34.61	65 TB	LN	3	1.973	1	35.02	55 CS	LN	2	2.993	1,2,3
34.65	71 LU	LY2	5	1.185	1,2,3	35.04	71 LU	LY6	5	1.198	1,2
34.65	65 TB	LA1	3	1.975	1,2,3	35.07	62 SM	LB1	3	1.998	1,2,3
34.65	70 YB	LY4	5	1.185	1,2	35.08	78 PT	LL	4	1.499	1,2,3
34.68	75 RE	LB7	5	1.186	1,2	35.10	62 SM	LB4	3	2.000	1,2,3
34.68	82 PB	LA2	5	1.186	1,2,3	35.10	28 NI	KB1	4	1.500	1,2,3
34.74	64 GD	LY4	4	1.485	1,2	35.12	50 SN	LY1	2	3.001	1,2,3
34.74	68 ER	LB9	4	1.485	1,2	35.16	51 SB	LB7	2	3.005	1
34.75	52 TE	LB6	2	2.971	1,2,3	35.18	57 LA	LL	2	3.006	1,2,3
34.77	51 SB	LB9	2	2.972	1,2	35.19	79 AU	LN	5	1.203	1,2,3
34.79	74 W	LA2	4	1.487	1,2,3	35.21	39 Y	LB4	1	6.018	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS						35.21 TO 35.97					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
35.21	52 TE	LB3	2	3.009	1,2,3	35.53	40 ZR	LA1	1	6.070	1,2,3
35.22	74 W	LB9	5	1.204	1,2	35.54	66 DY	LY5	4	1.518	1,2
35.22	69 TM	LB3	4	1.505	1,2,3	35.56	74 W	LB5	5	1.215	1,2
35.27	60 ND	LB7	3	2.009	1,2	35.56	72 HF	LY5	5	1.215	1,2
35.28	54 XE	LA1	2	3.015	1	35.57	40 ZR	LA2	1	6.078	1,2,3
35.31	75 RE	LB2	5	1.207	1,2,3	35.64	73 TA	LA1	4	1.522	1,2,3
35.31	81 TL	LA1	5	1.207	1,2,3	35.65	76 OS	LB4	5	1.218	1,2,3
35.34	31 GA	KB1	5	1.208	1,2,3	35.66	52 TE	LB4	2	3.046	1,2,3
35.34	31 GA	KB3	5	1.208	1,2	35.66	72 HF	LN	4	1.523	1,2,3
35.38	37 RB	LY3	1	6.045	1,2	35.67	39 Y	LB6	1	6.094	1,2,3
35.38	37 RB	LY2	1	6.046	1,2,3	35.68	81 TL	LA2	5	1.219	1,2,3
35.38	51 SB	LB2	2	3.023	1,2,3	35.71	75 RE	LB3	5	1.220	1,2,3
35.38	78 PT	MA1	1	6.046	1,2	35.76	60 ND	LB2	3	2.036	1,2,3
35.39	60 ND	LB9	3	2.016	1,2	35.77	70 YB	LY3	5	1.222	1,2,3
35.41	54 XE	LA2	2	3.025	1	35.77	71 LU	LY1	5	1.222	1,2,3
35.44	68 ER	LB2	4	1.514	1,2,3	35.80	64 GC	LY3	4	1.529	1,2,3
35.45	68 ER	LL	3	2.019	1,2,3	35.83	65 TB	LY1	4	1.530	1,2,3
35.45	78 PT	MA2	1	6.057	1,2	35.83	74 W	LB7	5	1.224	1,2
35.47	69 TM	LB6	4	1.515	1,2,3	35.83	69 TM	LB1	4	1.530	1,2,3
35.47	59 PR	LY5	3	2.020	1,2	35.85	57 LA	LY3	3	2.041	1,2,3
35.47	74 W	LB10	5	1.212	1,2	35.90	73 TA	LA2	4	1.533	1,2,3
35.48	21 SC	KA1	2	3.031	1,2,3	35.93	64 GC	LY2	4	1.534	1,2,3
35.50	76 OS	LB6	5	1.213	1,2,3	35.94	57 LA	LY2	3	2.046	1,2,3
35.52	60 ND	LB10	3	2.023	1,2	35.94	64 GC	LA1	3	2.046	1,2,3
35.53	21 SC	KA2	2	3.035	1,2,3	35.97	58 CE	LY1	3	2.048	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS						35.98 TO 36.86					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
35.98	69 TM	LY4	5	1.229	1	36.46	74 W	LB2	5	1.245	1,2,3
35.98	70 YB	LY2	5	1.229	1,2,3	36.50	51 SB	LB6	2	3.115	1,2,3
35.99	64 GC	LN	3	2.049	1,2,3	36.50	73 TA	LB9	5	1.246	1,2
36.00	20 CA	KB5	2	3.074	1,2	36.50	50 SN	LB9	2	3.115	1,2
36.01	42 MC	LL	1	6.150	1,2,3	36.57	50 SN	LB10	2	3.121	1,2
36.03	52 TE	LB1	2	3.077	1,2,3	36.57	61 PM	LB1	3	2.081	1,2,3
36.04	15 P	KA2	1	6.155	1,2,3	36.58	68 ER	LB3	4	1.561	1,2,3
36.04	15 P	KA1	1	6.155	1,2,3	36.65	75 RE	LB6	5	1.251	1,2,3
36.10	77 IR	LL	4	1.541	1,2,3	36.65	24 CR	KB1	3	2.085	1,2,3
36.10	29 CU	KA1	4	1.541	1,2,3	36.65	24 CR	KB3	3	2.085	1,2
36.13	50 SN	LY5	2	3.085	1,2	36.67	67 HC	LL	3	2.086	1,2,3
36.14	64 GC	LA2	3	2.057	1,2,3	36.68	77 IR	PA1	1	6.261	1,2
36.17	63 EU	LY4	4	1.544	1,2	36.71	80 HG	LA2	5	1.253	1,2,3
36.17	69 TM	LB4	4	1.544	1,2,3	36.73	67 HC	LB2	4	1.567	1,2,3
36.17	29 CU	KA2	4	1.544	1,2,3	36.73	68 ER	LB6	4	1.567	1,2,3
36.19	20 CA	KB1	2	3.090	1,2,3	36.74	56 BA	LL	2	3.135	1,2,3
36.28	75 RE	LB1	5	1.239	1,2,3	36.74	32 GE	KA1	5	1.254	1,2,3
36.29	67 HO	LB10	4	1.549	1	36.74	73 TA	LB10	5	1.254	1,2
36.34	80 HG	LA1	5	1.241	1,2,3	36.76	59 PR	LB7	3	2.091	1,2
36.38	41 NB	LN	1	6.211	1,2,3	36.76	48 CD	LY3	2	3.137	1,2
36.39	59 Y	LB1	1	6.212	1,2,3	36.77	73 TA	LB5	5	1.255	1,2
36.39	24 CR	KB5	3	2.071	1,2	36.77	77 IR	PA2	1	6.275	1,2
36.40	78 PT	LN	5	1.243	1,2,3	36.77	72 HF	LA1	4	1.569	1,2,3
36.40	70 YB	LY6	5	1.243	1,2	36.77	48 CD	LY2	2	3.138	1,2,3
36.46	56 BA	LY4	3	2.075	1,2	36.86	32 GE	KA2	5	1.258	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS							36.89 TO 37.69						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
36.89	75 RE	LB4	5	1.259	1,2,3		37.30	63 EU	LA1	3	2.121	1,2,3	
36.90	53 I	LA1	2	3.148	1,2,3		37.31	63 EU	LY3	4	1.591	1,2,3	
36.90	38 SR	LY5	1	6.296	1,2		37.33	38 SR	LB3	1	6.367	1,2,3	
36.92	59 PR	LB9	3	2.160	1,2		37.33	64 GC	LY1	4	1.592	1,2,3	
36.92	71 LU	LY5	5	1.260	1,2		37.35	69 TM	LY2	5	1.274	1,2,3	
36.94	51 SB	LB3	2	3.152	1,2,3		37.39	60 ND	LB3	3	2.126	1,2,3	
36.96	25 MN	KA1	3	2.102	1,2,3		37.41	68 ER	LY4	5	1.276	1,2	
36.97	65 TB	LB5	4	1.577	2		37.41	79 AU	LA1	5	1.276	1,3	
36.97	65 TB	LY5	4	1.577	1		37.41	51 SB	LB4	2	3.190	1,2,3	
36.98	50 SN	LB7	2	3.155	1,2		37.45	63 EU	LY2	4	1.597	1,2,3	
36.99	60 ND	LB6	3	2.104	1,2,3		37.49	63 EU	LN	3	2.131	1	
37.01	74 W	LB3	5	1.263	1,2,3		37.50	66 DY	LB7	4	1.599	1,2	
37.02	53 I	LA2	2	3.158	1,2,3		37.50	63 EU	LA2	3	2.132	1,2,3	
37.03	25 MN	KA2	3	2.106	1,2,3		37.53	66 DY	LB9	4	1.600	1	
37.04	72 HF	LA2	4	1.580	1,2,3		37.54	56 BA	LY3	3	2.134	1,2,3	
37.04	73 TA	LB7	5	1.264	1,2		37.55	38 SR	LB4	1	6.403	1,2,3	
37.05	59 PR	LB10	3	2.107	1,2		37.55	68 ER	LB4	4	1.601	1,2,3	
37.07	49 IN	LY1	2	3.162	1,2,3		37.59	74 W	LB1	5	1.282	1,2,3	
37.10	58 CE	LY5	3	2.110	1,2		37.61	56 BA	LY2	3	2.138	1,2,3	
37.16	76 OS	LL	4	1.585	1,2,3		37.65	77 IR	LN	5	1.284	1,2,3	
37.16	70 YB	LY1	5	1.268	1,2,3		37.65	73 TA	LB2	5	1.284	1,2,3	
37.16	69 TM	LY3	5	1.268	1,2,3		37.65	30 ZN	KB2	5	1.284	1,2,3	
37.21	68 ER	LB1	4	1.587	1,2,3		37.67	62 SM	LY4	4	1.606	1,2	
37.22	50 SN	LB2	2	3.175	1,2,3		37.68	30 ZN	KB5	5	1.285	1,2	
37.27	59 PR	LB2	3	2.119	1,2,3		37.69	57 LA	LY1	3	2.142	1,2,3	

MICA CRYSTAL, D# 9.94E ANGSTROMS						37.70 TO 38.67					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
37.70	66 DY	LB10	4	1.637	1	38.25	38 SR	LB6	1	6.519	1,2,3
37.75	27 CO	KB5	4	1.609	1,2	38.26	71 LU	LA2	4	1.630	1,2,3
37.77	79 AU	LA2	5	1.288	1,2,3	38.26	75 RE	LL	4	1.630	1,2,3
37.83	39 Y	LA1	1	6.449	1,2,3	38.27	55 CS	LY4	3	2.174	1,2
37.83	72 HF	LB9	5	1.290	1,2	38.31	75 RE	MA1	1	6.528	1,2
37.83	74 W	LB6	5	1.290	1,2,3	38.32	70 YB	LY5	5	1.306	1,2
37.83	69 TM	LY6	5	1.293	1	38.32	72 HF	LB7	5	1.306	1,2
37.84	51 SB	LB1	2	3.225	1,2,3	38.34	55 CS	LL	2	3.267	1,2,3
37.87	39 Y	LA2	1	6.455	1,2,3	38.35	73 TA	LB3	5	1.307	1,2,3
37.98	66 DY	LL	3	2.159	1,2,3	38.36	49 IN	LB9	2	3.268	1,2
37.98	30 ZN	KB1	5	1.295	1,2,3	38.37	50 SN	LB6	2	3.269	1,2,3
37.99	71 LU	LA1	4	1.617	1,2,3	38.38	58 CE	LB7	3	2.180	1,2
37.99	67 HO	LB3	4	1.617	1,2,3	38.40	70 YB	LN	4	1.636	1,2,3
38.04	27 CO	KB1	4	1.621	1,2,3	38.43	49 IN	LB10	2	3.274	1,2
38.06	67 HO	LB6	4	1.622	1,2,3	38.50	53 I	LN	2	3.280	1,2,3
38.08	76 OS	MA2	1	6.490	1,2	38.53	58 CE	LB9	3	2.188	1,2
38.08	72 HF	LB5	5	1.293	1,2	38.53	64 GC	LY5	4	1.641	1
38.08	76 OS	MA1	1	6.490	1,2	38.53	78 PT	LA1	5	1.313	1,2,3
38.08	72 HF	LB10	5	1.293	1,2	38.56	59 PR	LB6	3	2.190	1,2,3
38.09	66 DY	LB2	4	1.623	1,2,3	38.59	68 ER	LY3	5	1.315	1,2,3
38.13	49 IN	LY5	2	3.247	1,2	38.59	69 TM	LY1	5	1.315	1,2,3
38.14	60 ND	LB4	3	2.167	1,2,3	38.61	52 TE	LA1	2	3.289	1,2,3
38.14	60 ND	LB1	3	2.167	1,2,3	38.63	83 BI	LL	5	1.316	1,2,3
38.20	74 W	LB4	5	1.302	1,2,3	38.65	58 CE	LB10	3	2.195	1,2
38.24	41 NE	LL	1	6.517	1,2,3	38.67	67 HC	LB1	4	1.647	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS							38.72 TO 39.66						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
38.72	52 TE	LA2	2	3.298	1,2,3		39.08	73 TA	LB6	5	1.331	1,2,3	
38.73	62 SM	LA1	3	2.199	1,2,3		39.16	65 TE	LB10	4	1.667	1,2	
38.78	68 ER	LY2	5	1.321	1,2,3		39.19	48 CD	LY1	2	3.336	1,2,3	
38.79	40 ZR	LN	1	6.607	1,2,3		39.21	49 IN	LB2	2	3.338	1,2,3	
38.81	67 HO	LY4	5	1.322	1,2		39.24	71 LU	LB9	5	1.336	1,2	
38.82	50 SN	LB3	2	3.306	1,2,3		39.27	50 SN	LB4	2	3.343	1,2,3	
38.82	47 AG	LY3	2	3.306	1,2		39.28	70 YB	LA1	4	1.672	1,2,3	
38.82	47 AG	LY2	2	3.306	1,3		39.35	55 CS	LY3	3	2.233	1,2,3	
38.84	57 LA	LY5	3	2.205	1,2		39.36	31 GA	KA1	5	1.340	1,2,3	
38.87	78 PT	LA2	5	1.324	1,2,3		39.37	65 TB	LL	3	2.234	1,2,3	
38.87	62 SM	LY3	4	1.655	1,2,3		39.42	71 LU	LB5	5	1.342	1,2	
38.89	38 SR	LB1	1	6.624	1,2,3		39.42	55 CS	LY2	3	2.237	1,2,3	
38.91	58 CE	LB2	3	2.209	1,2,3		39.43	74 W	LL	4	1.678	1,2,3	
38.93	62 SM	LA2	3	2.210	1,2,3		39.45	71 LU	LB10	5	1.343	1,2	
38.93	72 HF	LB2	5	1.326	1,2,3		39.46	20 CA	KA1	2	3.358	1,2,3	
38.94	63 EU	LY1	4	1.658	1,2,3		39.48	31 GA	KA2	5	1.344	1,2,3	
38.94	28 NI	KA1	4	1.658	1,2,3		39.50	56 BA	LY1	3	2.241	1,2,3	
38.96	73 TA	LB1	5	1.327	1,2,3		39.50	66 DY	LB3	4	1.681	1,2,3	
38.97	62 SM	LY2	4	1.659	1,2,3		39.50	66 DY	LB6	4	1.681	1,2,3	
38.97	67 HO	LB4	4	1.659	1,2,3		39.50	20 CA	KA2	2	3.362	1,2,3	
38.97	65 TB	LB7	4	1.659	1,2		39.53	65 TE	LB2	4	1.682	1,2,3	
38.99	76 OS	LN	5	1.328	1,2,3		39.54	73 TA	LB4	5	1.346	1,2,3	
39.04	28 NI	KA2	4	1.662	1,2,3		39.55	70 YB	LA2	4	1.683	1,2,3	
39.06	59 PR	LB3	3	2.217	1,2,3		39.63	71 LU	LB7	5	1.349	1,2	
39.08	62 SM	LN	3	2.218	1,2,3		39.66	82 PE	LL	5	1.350	1,2,3	

MICA CRYSTAL, D# 9.94E ANGSTROMS							39.69 TC 40.63						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
39.69	37 RB	LY5	1	6.754	1,2		40.29	23 V	KB1	3	2.284	1,2,3	
39.69	77 IR	LA1	5	1.351	1,2,3		40.34	48 CD	LB9	2	3.430	1,2	
39.76	72 HF	LB3	5	1.353	1,2,3		40.36	38 SR	LA1	1	6.863	1,2,3	
39.76	59 PR	LB4	3	2.255	1,2,3		40.37	75 RE	LN	5	1.373	1,2,3	
39.77	14 ST	KB1	1	6.763	1,2,3		40.39	38 SR	LA2	1	6.869	1,2,3	
39.79	50 SN	LB1	2	3.385	1,2,3		40.40	24 CR	KA1	3	2.290	1,2,3	
39.81	59 PR	LB1	3	2.253	1,2,3		40.40	72 HF	LB6	5	1.374	1,2,3	
39.82	69 TM	LY5	5	1.355	1,2		40.40	66 DY	LY4	5	1.374	1,2	
39.87	69 TM	LN	4	1.696	1,2,3		40.40	72 HF	LB1	5	1.374	1,2,3	
39.89	37 RB	LB3	1	6.787	1,2,3		40.40	57 LA	LB10	3	2.290	1,2	
40.01	23 V	KB5	3	2.269	1,2		40.41	49 IN	LB6	2	3.436	1,2,3	
40.03	77 IR	LA2	5	1.362	1,2,3		40.42	48 CD	LB10	2	3.437	1,2	
40.09	67 HO	LY3	5	1.364	1,2,3		40.44	61 PM	LA2	3	2.292	1	
40.09	37 RB	LB4	1	6.820	1,2,3		40.44	52 TE	LN	2	3.438	1,2,3	
40.09	68 ER	LY1	5	1.364	1,2,3		40.45	51 SB	LA1	2	3.439	1,2,3	
40.12	57 LA	LB7	3	2.275	1,2		40.46	66 DY	LB4	4	1.720	1,2,3	
40.17	63 EU	LY5	4	1.708	1,2		40.47	19 K	KB5	2	3.441	1,2	
40.22	66 DY	LB1	4	1.710	1,2,3		40.47	24 CR	KA2	3	2.294	1,2,3	
40.23	58 CE	LB6	3	2.281	1,2,3		40.53	64 GD	LB7	4	1.723	1,2	
40.25	57 LA	LB9	3	2.282	1,2		40.56	51 SB	LA2	2	3.448	1,2,3	
40.27	61 PM	LA1	3	2.283	1,2,3		40.56	64 GD	LB9	4	1.724	1	
40.28	67 HO	LY2	5	1.370	1,2,3		40.61	69 TM	LA1	4	1.726	1,2,3	
40.28	48 CD	LY5	2	3.425	1,2		40.61	29 CU	KB2	5	1.381	2,3	
40.28	71 LU	LB2	5	1.370	1,2,3		40.63	62 SM	LY1	4	1.727	1,2,3	
40.29	23 V	KB3	3	2.284	1,2		40.63	19 K	KB1	2	3.454	1,2,3	

MICA CRYSTAL, D# 9.94E ANGSTROMS							40.64 TC 41.88					
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF
40.64	57 LA	LB2	3	2.303	1,2,3		41.09	74 W	PA1	1	6.983	1,2
40.64	29 CU	KB5	5	1.382	2		41.10	65 TB	LB3	4	1.746	1,2,3
40.66	73 TA	LL	4	1.728	1,2,3		41.10	37 RB	LB6	1	6.984	1,2,3
40.69	40 ZR	LL	1	6.918	1,2,3		41.14	74 W	PA2	1	6.990	1,2
40.71	70 YB	LB9	5	1.384	1,2		41.23	71 LU	LB3	5	1.401	1,2,3
40.73	56 BA	LY5	3	2.308	1,2		41.26	76 OS	LA2	5	1.402	1,2,3
40.73	64 GD	LB10	4	1.731	1,2		41.28	49 IN	LB4	2	3.507	1,2,3
40.74	81 TL	LL	5	1.385	1,2,3		41.35	68 ER	LN	4	1.756	1,2,3
40.79	58 CE	LB3	3	2.311	1,2,3		41.37	26 FE	KB1	4	1.757	1,2,3
40.80	70 YB	LB5	5	1.387	1,2		41.37	48 CC	LB2	2	3.514	1,2,3
40.80	64 GD	LL	3	2.312	1,2,3		41.38	68 ER	LY5	5	1.406	1,2
40.83	49 IN	LB3	2	3.470	1,2,3		41.44	39 Y	LN	1	7.040	1,2,3
40.88	69 TM	LA2	4	1.737	1,2,3		41.47	55 CS	LY1	3	2.348	1,2,3
40.92	70 YB	LB10	5	1.391	1,2		41.48	47 AG	LY1	2	3.523	1,2,3
40.92	76 OS	LA1	5	1.391	1,2,3		41.49	58 CE	LB4	3	2.349	1,2,3
40.95	72 HF	LB4	5	1.392	1,2,3		41.62	58 CE	LB1	3	2.356	1,2,3
40.95	29 CU	KB1	5	1.392	1,2,3		41.66	70 YB	LB2	5	1.415	1,2,3
40.98	65 TB	LB6	4	1.741	1,2,3		41.67	37 RB	LB1	1	7.076	1,2,3
40.98	29 CU	KB3	5	1.393	1,2		41.72	67 HC	LY1	5	1.417	1,2,3
41.04	70 YB	LB7	5	1.395	1,2		41.72	66 DY	LY3	5	1.417	1,2,3
41.05	60 ND	LY4	4	1.744	1,2		41.78	71 LU	LB6	5	1.419	1,2,3
41.05	26 FE	KB5	4	1.744	1,2		41.84	65 TB	LB1	4	1.776	1,2,3
41.06	46 PD	LY3	2	3.489	1,2		41.84	74 W	LN	5	1.421	1,2,3
41.06	46 PD	LY2	2	3.489	1,2,3		41.88	60 ND	LA1	3	2.370	1,2,3
41.07	64 GD	LB2	4	1.745	1,2,3		41.88	80 HG	LL	5	1.422	1,2,3

MICA CRYSTAL, DH 9.94E ANGSTROMS						41.88 TO 42.83					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
41.88	49 IN	LB1	2	3.555	1,2,3	42.34	63 EU	LL	3	2.395	1,2,3
41.90	53 I	LL	2	3.557	1,2,3	42.40	30 ZN	KA2	5	1.439	1,2,3
41.91	66 DY	LY2	5	1.423	1,2,3	42.43	71 LU	LB4	5	1.440	1,2,3
41.91	62 SM	LY5	4	1.779	1	42.43	63 EU	LB10	4	1.800	1,2
41.91	62 SM	LB5	4	1.779	2	42.43	50 SN	LA1	2	3.600	1,2,3
41.94	71 LU	LB1	5	1.424	1,2,3	42.46	60 ND	LY2	4	1.801	1,2,3
41.96	72 HF	LL	4	1.781	1,2,3	42.46	69 TM	LB10	5	1.441	1
41.97	14 SI	KA1	1	7.125	1,2,3	42.49	47 AG	LB9	2	3.605	1,2
41.99	14 SI	KA2	1	7.128	1,2,3	42.51	56 BA	LB2	3	2.404	1,2,3
41.99	56 BA	LB9	3	2.376	1,2	42.53	51 SE	LN	2	3.608	1,2,3
42.03	65 TB	LY4	5	1.427	1,2	42.54	50 SN	LA2	2	3.609	1,2,3
42.04	68 ER	LA1	4	1.784	1,2,3	42.55	75 RE	LA2	5	1.444	1,2,3
42.04	57 LA	LB6	3	2.379	1,2,3	42.57	47 AG	LB10	2	3.611	1,2
42.06	65 TB	LB4	4	1.785	1,2,3	42.60	60 ND	LN	3	2.409	1,2,3
42.06	60 ND	LA2	3	2.380	1,3	42.60	48 CD	LB6	2	3.614	1,2,3
42.13	63 EU	LB7	4	1.788	1,2	42.60	64 GD	LB6	4	1.807	1,2,3
42.16	27 CO	KA1	4	1.789	1,2,3	42.62	57 LA	LB3	3	2.410	1,2,3
42.19	56 BA	LB10	3	2.387	1,2	42.63	47 AG	LY5	2	3.616	1,2
42.21	75 RE	LA1	5	1.433	1,2,3	42.73	63 EU	LB2	4	1.812	1,2,3
42.23	63 EU	LB9	4	1.792	1,2	42.75	73 TA	MA1	1	7.251	1,2
42.26	27 CO	KA2	4	1.793	1,2,3	42.75	55 CS	LY5	3	2.417	1,2
42.26	53 I	LY4	3	2.391	1,2	42.79	73 TA	MA2	1	7.258	1,2
42.28	30 ZN	KA1	5	1.435	1,2,3	42.80	70 YB	LB3	5	1.452	1,2,3
42.33	68 ER	LA2	4	1.796	1,2,3	42.80	64 GD	LB3	4	1.815	1,2,3
42.33	60 ND	LY3	4	1.796	1,2,3	42.83	61 PM	LY1	4	1.816	1

MICA CRYSTAL, D# 9.94E ANGSTROMS						42.90 TO 44.10					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
42.90	59 PR	LY4	4	1.819	1,2	43.58	65 TB	LY2	5	1.477	1,2,3
42.99	48 CD	LB3	2	3.645	1,2,3	43.58	54 XE	LY1	3	2.462	1
43.05	79 AU	LL	5	1.460	1,2,3	43.60	59 PR	LA1	3	2.463	1,2,3
43.07	67 HO	LN	4	1.826	1,2,3	43.61	71 LU	LN	5	1.478	1,2
43.11	67 HO	LY5	5	1.462	1,2	43.71	47 AG	LB2	2	3.703	1,2,3
43.14	69 TM	LB2	5	1.463	1,2,3	43.74	64 GC	LB4	4	1.853	1,2,3
43.16	37 RB	LA1	1	7.318	1,2,3	43.79	59 PR	LA2	3	2.473	1,2,3
43.20	37 RB	LA2	1	7.325	1,2,3	43.79	60 NC	LY6	4	1.855	2
43.24	70 YB	LB6	5	1.466	1,2,3	43.82	62 SM	LB7	4	1.856	1,2
43.30	53 I	LY2	3	2.447	1,2,3	43.82	67 HC	LA2	4	1.856	1,2,3
43.30	53 I	LY3	3	2.447	1,2	43.82	64 GC	LY4	5	1.485	1,2
43.32	71 LU	LL	4	1.836	1,2,3	43.82	68 ER	LB9	5	1.485	1,2
43.34	57 LA	LB4	3	2.449	1,2,3	43.88	55 CS	LB9	3	2.478	1,2
43.39	73 TA	LN	5	1.471	1,2,3	43.88	52 TE	LL	2	3.717	1,2,3
43.39	65 TB	LY3	5	1.471	1,2,3	43.89	74 W	LA2	5	1.487	1,2,3
43.40	39 Y	LL	1	7.356	1,2,3	43.94	62 SM	LB9	4	1.861	1,2
43.45	48 CD	LB4	2	3.682	1,2,3	43.95	28 NI	KB2	5	1.489	1,2,3
43.45	66 DY	LY1	5	1.473	1,2,3	43.95	28 NI	KB5	5	1.489	1,2
43.48	45 RH	LY3	2	3.685	1,2	43.95	62 SM	LL	3	2.482	1,2,3
43.48	45 RH	LY2	2	3.685	1,2,3	43.95	56 BA	LB6	3	2.482	1,2,3
43.51	57 LA	LB1	3	2.458	1,2,3	43.97	46 PC	LY1	2	3.724	1,2,3
43.55	70 YB	LB1	5	1.476	1,2,3	44.01	55 CS	LB7	3	2.485	1,2
43.55	67 HO	LA1	4	1.845	1,2,3	44.01	70 YB	LB4	5	1.491	1,2,3
43.55	74 W	LA1	5	1.476	1,2,3	44.10	68 ER	LB7	5	1.494	1,2
43.57	64 GD	LB1	4	1.846	1,2,3	44.10	68 ER	LB10	5	1.494	1,2

MICA CRYSTAL, D# 9.94E ANGSTROMS						44.14 TO 44.98					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
44.14	55 CS	LB10	3	2.492	1,2	44.59	56 BA	LB3	3	2.516	1,2,3
44.14	48 CD	LB1	2	3.738	1,2,3	44.59	63 EU	LB3	4	1.887	1,2,3
44.14	62 SM	LB10	4	1.869	1,2	44.68	49 IN	LA2	2	3.781	1,2,3
44.18	19 K	KA1	2	3.741	1,2,3	44.71	36 KR	LB1	1	7.568	1
44.23	19 K	KA2	2	3.745	1,2,3	44.73	68 ER	LB2	5	1.514	1,2,3
44.25	22 TI	KB5	3	2.498	1,2	44.76	69 TM	LB6	5	1.515	1,2,3
44.26	78 PT	LL	5	1.499	1,2,3	44.76	70 YB	LL	4	1.894	1,2,3
44.27	63 EU	LB6	4	1.874	1,2,3	44.78	50 SN	LN	2	3.789	1,2,3
44.27	59 PR	LY3	4	1.874	1,2,3	44.81	46 PC	LB9	2	3.792	1,2
44.29	28 NI	KB1	5	1.500	1,2,3	44.84	66 DY	LN	4	1.397	1,2,3
44.35	23 V	KA1	3	2.503	1,2,3	44.84	25 MN	KB5	4	1.397	1,2
44.37	60 ND	LY1	4	1.878	1,2,3	44.85	66 DY	LY5	5	1.518	1,2
44.39	59 PR	LY2	4	1.879	1,2,3	44.89	58 CE	LY4	4	1.899	1,2
44.40	38 SR	LN	1	7.517	1,2,3	44.90	46 PC	LB10	2	3.799	1,2
44.42	23 V	KA2	3	2.507	1,2,3	44.98	73 TA	LA1	5	1.522	1,2,3
44.45	69 TM	LB3	5	1.505	1,2,3						
44.46	62 SM	LB2	4	1.882	1,2,3						
44.50	55 CS	LB2	3	2.511	1,2,3						
44.50	52 TE	LY4	3	2.51	1,2						
44.51	59 PR	LN	3	2.512	1,2,3						
44.53	72 HF	MA1	1	7.539	1,2						
44.55	22 TI	KB3	3	2.514	1,2						
44.55	22 TI	KB1	3	2.514	1,2,3						
44.56	49 IN	LA1	2	3.772	1,3						
44.58	72 HF	MA2	1	7.545	1,2						

MICA CRYSTAL, D# 9.94E ANGSTROMS							45.01 TO 46.41						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
45.01	72 HF	LN	5	1.523	1,2,3		45.79	60 ND	LY5	4	1.935	1,2	
45.01	47 AG	LB6	2	3.808	1,2,3		45.79	47 AG	LB4	2	3.870	1,2,3	
45.14	66 DY	LA1	4	1.909	1,2,3		45.81	26 FE	KA1	4	1.936	1,2,3	
45.16	25 MN	KB1	4	1.910	1,2,3		45.82	67 HC	LB10	5	1.549	1	
45.19	46 PD	LY5	2	3.822	1,2		45.82	53 I	LY1	3	2.582	1,2,3	
45.19	64 GD	LY3	5	1.529	1,2,3		45.91	26 FE	KA2	4	1.940	1,2,3	
45.22	69 TM	LB1	5	1.530	1,2,3		45.96	18 A	KB1	2	3.884	1	
45.22	65 TB	LY1	5	1.530	1,2,3		46.01	51 SB	LL	2	3.888	1,2,3	
45.32	56 BA	LB4	3	2.555	1,2,3		46.03	55 CS	LB6	3	2.593	1,2,3	
45.32	73 TA	LA2	5	1.533	1,2,3		46.06	62 SM	LB6	4	1.946	1,2,3	
45.32	47 AG	LB3	2	3.833	1,2,3		46.13	44 RU	LY3	2	3.897	1,2	
45.35	64 GD	LY2	5	1.534	1,2,3		46.13	44 RU	LY2	2	3.897	1,2,3	
45.41	66 DY	LA2	4	1.920	1,2,3		46.19	68 ER	LB3	5	1.561	1,2,3	
45.41	63 EU	LB1	4	1.920	1,2,3		46.23	36 KR	LA2	1	7.811	1	
45.43	58 CE	LA1	3	2.561	1,2,3		46.23	36 KR	LA1	1	7.811	1	
45.54	52 TE	LY2	3	2.567	1,3		46.28	46 PD	LB2	2	3.909	1,2,3	
45.54	56 BA	LB1	3	2.567	1,2,3		46.29	92 U	MA1	2	3.910	1,2	
45.54	52 TE	LY3	3	2.567	1,2		46.29	58 CE	LY3	4	1.955	1,2,3	
45.56	63 EU	LB4	4	1.926	1,2,3		46.29	69 TM	LL	4	1.955	1,2,3	
45.57	29 CU	KA1	5	1.541	1,2,3		46.34	61 PM	LB2	4	1.957	1	
45.57	77 IR	LL	5	1.541	1,2,3		46.38	68 ER	LB6	5	1.567	1,2,3	
45.60	58 CE	LA2	3	2.570	1,2,3		46.38	67 HC	LB2	5	1.567	1,2,3	
45.66	29 CU	KA2	5	1.544	1,2,3		46.39	38 SR	LL	1	7.836	1,2,3	
45.66	69 TM	LB4	5	1.544	1,2,3		46.41	58 CE	LY2	4	1.960	1,2,3	
45.66	63 EU	LY4	5	1.544	1,2		46.41	71 LU	MA1	1	7.840	1,2	

MECA CRYSTAL, D# 9.94E ANGSTROMS						46.44 TO 47.95					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
46.44	59 PR	LY1	4	1.96	1,2,3	47.30	13 AL	KB1	1	7.981	1,2,3
46.44	72 HF	LA1	5	1.569	1,2,3	47.32	63 EU	LY2	5	1.597	1,2,3
46.46	62 SM	LB3	4	1.962	1,2,3	47.37	62 SM	LB1	4	1.998	1,2,3
46.46	92 U	MA2	2	3.924	1,2	47.39	57 LA	LA1	3	2.665	1,2,3
46.54	58 CE	LN	3	2.620	1,2,3	47.39	66 DY	LB7	5	1.599	1,2
46.59	47 AG	LB1	2	3.934	1,2,3	47.40	55 CS	LB4	3	2.666	1,2,3
46.65	54 XE	LB2	3	2.626	1	47.42	62 SM	LB4	4	2.000	1,2,3
46.69	55 CS	LB3	3	2.623	1,2,3	47.42	66 DY	LB9	5	1.600	1
46.70	65 TE	LB5	5	1.577	2	47.45	68 ER	LB4	5	1.601	1,2,3
46.70	65 TB	LY5	5	1.577	1	47.56	57 LA	LA2	3	2.674	1,2,3
46.70	45 RH	LY1	2	3.943	1,2,3	47.59	60 NC	LL	3	2.676	1,2,3
46.74	65 TB	LN	4	1.973	1	47.61	62 SM	LY4	5	1.606	1,2
46.79	65 TB	LA1	4	1.975	1,2,3	47.62	46 PC	LB6	2	4.016	1,2,3
46.79	72 HF	LA2	5	1.580	1,2,3	47.64	66 DY	LB10	5	1.607	1
46.86	48 CD	LA1	2	3.955	1,2,3	47.64	60 NC	LB7	4	2.609	1,2
46.90	51 SB	LY4	3	2.639	1,2	47.68	37 RB	LN	1	8.041	1,2,3
46.95	76 OS	LL	5	1.585	1,2,3	47.69	91 PA	MA1	2	4.022	1,2
46.98	48 CD	LA2	2	3.965	1,2,3	47.70	27 CC	KB5	5	1.609	1,2
46.99	57 LA	LY4	4	1.983	1,2	47.73	55 CS	LB1	3	2.683	1,2,3
47.01	68 ER	LB1	5	1.587	1,2,3	47.82	60 NC	LB9	4	2.016	1,2
47.07	65 TB	LA2	4	1.986	1,2,3	47.85	46 PC	LB3	2	4.034	1,2,3
47.13	63 EU	LY3	5	1.591	1,2,3	47.86	91 PA	MA2	2	4.035	1,2
47.17	64 GC	LY1	5	1.592	1,2,3	47.90	68 ER	LL	4	2.019	1,2,3
47.20	49 IN	LN	2	3.983	1,2,3	47.92	59 PR	LY5	4	2.020	1,2
47.24	53 I	LY5	3	2.657	1,2	47.95	51 SB	LY3	3	2.695	1,2

MICA CRYSTAL, D# 9.94E ANGSTROMS						47.95 TO 49.47					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
47.95	51 SB	LY2	3	2.695	1,2,3	48.65	64 GC	LN	4	2.049	1,2,3
47.98	45 RH	LY5	2	4.045	1,2	48.71	64 GC	LY5	5	1.641	1
48.00	63 ND	LB10	4	2.023	1,2	48.81	57 LA	LN	3	2.740	1,2,3
48.02	67 HO	LB3	5	1.619	1,2,3	48.86	64 GC	LA2	4	2.057	1,2,3
48.02	71 LU	LA1	5	1.619	1,2,3	48.90	67 HC	LB1	5	1.647	1,2,3
48.08	27 CO	KB1	5	1.621	1,2,3	48.96	22 TI	KA1	3	2.748	1,2,3
48.11	67 HO	LB6	5	1.622	1,2,3	48.99	53 I	LB2	3	2.750	1,2,3
48.14	66 DY	LB2	5	1.623	1,2,3	49.03	22 TI	KA2	3	2.752	1,2,3
48.20	35 BR	LB1	1	8.125	2,3	49.07	45 RH	LB2	2	4.131	1,2,3
48.27	52 TE	LY1	3	2.712	1,2,3	49.15	62 SM	LY3	5	1.655	1,2,3
48.29	73 YB	MA1	1	8.138	1,2	49.16	90 TH	MA1	2	4.138	1,2
48.29	53 I	LB9	3	2.713	1,2	49.21	24 CR	KB5	4	2.071	1,2
48.31	46 PD	LB4	2	4.071	1,2,3	49.25	28 NI	KA1	5	1.658	1,2,3
48.31	50 SN	LL	2	4.071	1,2,3	49.25	63 EU	LY1	5	1.658	1,2,3
48.32	60 ND	LB2	4	2.036	1,2,3	49.26	46 PD	LB1	2	4.146	1,2,3
48.36	75 RE	LL	5	1.630	1,2,3	49.26	21 SC	KB5	3	2.764	1,2
48.36	71 LU	LA2	5	1.630	1,2,3	49.28	67 HC	LB4	5	1.659	1,2,3
48.39	70 YB	MA2	1	8.154	1,2	49.28	62 SM	LY2	5	1.659	1,2,3
48.43	53 I	LB10	3	2.720	1,2	49.28	65 TB	LB7	5	1.659	1,2
48.45	57 LA	LY3	4	2.041	1,2,3	49.31	56 BA	LY4	4	2.075	1,2
48.55	70 YB	LN	5	1.636	1,2,3	49.32	90 TH	MA2	2	4.151	1,2
48.58	57 LA	LY2	4	2.046	1,2,3	49.36	47 AG	LA1	2	4.154	1,2,3
48.58	64 GD	LA1	4	2.046	1,2,3	49.38	28 NI	KA2	5	1.662	1,2,3
48.62	53 I	LB7	3	2.730	1,2	49.46	61 PM	LB1	4	2.081	1,2,3
48.63	58 CE	LY1	4	2.048	1,2,3	49.47	56 BA	LA1	3	2.775	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS						49.48 TO 50.84					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
49.46	47 AG	LA2	2	4.143	1,2,3	50.00	25 MN	KA1	4	2.102	1,2,3
49.51	50 SN	LY4	3	2.777	1,2	50.00	54 XE	LB1	3	2.803	1
49.53	65 TB	LB10	5	1.667	1,2	50.01	65 TB	LB2	5	1.682	1,2,3
49.55	13 AL	KA1	1	8.338	1,2,3	50.04	70 YB	LA2	5	1.683	1,2,3
49.57	24 CR	KB3	4	2.065	1,2	50.05	60 ND	LB6	4	2.104	1,2,3
49.57	13 AL	KA2	1	8.340	1,2,3	50.10	25 MN	KA2	4	2.106	1,2,3
49.57	24 CR	KB1	4	2.085	1,2,3	50.13	59 PR	LB10	4	2.107	1,2
49.57	21 SC	KB1	3	2.780	1,2,3	50.20	58 CE	LY5	4	2.110	1,2
49.59	67 HC	LL	4	2.086	1,2,3	50.33	69 TM	MA1	1	8.460	1,2
49.64	59 PR	LL	3	2.784	1,2,3	50.33	69 TM	MA2	1	8.460	1,2
49.66	56 BA	LA2	3	2.785	1,2,3	50.43	59 PR	LB2	4	2.119	1,2,3
49.69	70 YB	LA1	5	1.672	1,2,3	50.45	69 TM	LN	5	1.696	1,2,3
49.71	37 RB	LL	1	8.363	1,2,3	50.48	63 EU	LA1	4	2.121	1,2,3
49.72	59 PR	LB7	4	2.091	1,2	50.48	45 RH	LB6	2	4.242	1,2,3
49.72	44 RU	LY1	2	4.182	1,2,3	50.58	50 SN	LY2	3	2.833	1,3
49.76	52 TE	LY5	3	2.793	1,2	50.61	45 RH	LB3	2	4.252	1,2,3
49.79	35 BR	LA2	1	8.375	1,2	50.61	60 ND	LB3	4	2.126	1,2,3
49.79	35 BR	LA1	1	8.375	1,2,3	50.65	53 I	LB6	3	2.837	1,2,3
49.84	18 A	KA1	2	4.192	1,2,3	50.69	52 TE	LB9	3	2.839	1,2
49.86	48 CD	LN	2	4.193	1,3	50.74	63 EU	LN	4	2.131	1
49.88	74 W	LL	5	1.678	1,2,3	50.76	63 EU	LA2	4	2.132	1,2,3
49.88	18 A	KA2	2	4.195	1,2,3	50.81	56 BA	LY3	4	2.134	1,2,3
49.95	59 PR	LB9	4	2.100	1,2	50.82	49 IN	LL	2	4.269	1,2,3
49.98	66 DY	LB3	5	1.681	1,2,3	50.84	63 EU	LY5	5	1.708	1,2
49.98	66 DY	LB6	5	1.681	1,2,3	50.84	52 TE	LB10	3	2.847	1,2

MICA CRYSTAL, D# 9.94E ANGSTROMS						50.90 TO 52.63					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
50.90	66 DY	LB1	5	1.710	1,2,3	51.90	55 CS	LA2	3	2.902	1,2,3
50.91	56 BA	LY2	4	2.138	1,2,3	51.99	26 FE	KB5	5	1.744	1,2
50.92	51 SB	LY1	3	2.851	1,2,3	51.99	58 CE	LB7	4	2.180	1,2
51.02	57 LA	LY1	4	2.142	1,2,3	51.99	60 NC	LY4	5	1.744	1,2
51.05	44 RU	LY5	2	4.287	1,2	52.02	64 GC	LB2	5	1.745	1,2,3
51.08	45 RH	LB4	2	4.289	1,2,3	52.05	65 TB	LB3	5	1.746	1,2,3
51.13	56 BA	LN	3	2.862	1,2,3	52.09	34 SE	LB1	1	8.736	1,2,3
51.15	52 TE	LB7	3	2.863	1,2	52.09	46 PC	LA1	2	4.368	1,2,3
51.22	66 DY	LB4	5	1.720	1,2,3	52.09	53 I	LB4	3	2.912	1,2,3
51.32	64 GD	LB7	5	1.723	1,2	52.14	44 RU	LB2	2	4.372	1,2,3
51.35	64 GD	LB9	5	1.724	1	52.17	45 RH	LB1	2	4.374	1,2,3
51.36	53 I	LB3	3	2.874	1,2,3	52.19	58 CE	LB9	4	2.188	1,2
51.41	69 TM	LA1	5	1.726	1,2,3	52.19	46 PC	LA2	2	4.376	1,2,3
51.42	66 DY	LL	4	2.158	1,2,3	52.24	42 MC	LY3	2	4.380	1,2
51.44	62 SM	LY1	5	1.727	1,2,3	52.24	42 MC	LY2	2	4.380	1,2,3
51.48	73 TA	LL	5	1.728	1,2,3	52.24	59 PR	LB6	4	2.190	1,2,3
51.51	52 TE	LB2	3	2.882	1,2,3	52.36	49 IN	LY4	3	2.926	1,2
51.57	64 GD	LB10	5	1.731	1,2	52.37	68 ER	LN	5	1.756	1,2,3
51.65	60 ND	LB4	4	2.167	1,2,3	52.37	58 CE	LB10	4	2.195	1,2
51.65	60 ND	LB1	4	2.167	1,2,3	52.40	26 FE	KB1	5	1.757	1,2,3
51.71	55 CS	LA1	3	2.892	1,2,3	52.48	62 SM	LA1	4	2.199	1,2,3
51.71	58 CE	LL	3	2.892	1,2,3	52.48	51 SB	LY5	3	2.932	1,2
51.76	69 TM	LA2	5	1.737	1,2,3	52.54	17 CL	KB1	2	4.403	1,2,3
51.83	55 CS	LY4	4	2.174	1,2	52.57	53 I	LB1	3	2.937	1,2,3
51.89	65 TB	LB6	5	1.741	1,2,3	52.63	57 LA	LY5	4	2.205	1,2

MICA CRYSTAL, D# 9.94E ANGSTROMS							52.73 TC 54.27						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
52.73	58 CE	LB2	4	2.209	1,2,3		53.53	48 CC	LL	2	4.480	1,2,3	
52.73	47 AG	LN	2	4.418	1,2,3		53.56	56 BA	LY1	4	2.241	1,2,3	
52.76	62 SM	LA2	4	2.210	1,2,3		53.56	27 CC	KA2	5	1.793	1,2,3	
52.94	59 PR	LB3	4	2.217	1,2,3		53.62	44 RU	LB6	2	4.487	1,2,3	
52.96	62 SM	LN	4	2.218	1,2,3		53.62	44 RU	LB3	2	4.487	1,2,3	
53.02	65 TB	LB1	5	1.776	1,2,3		53.65	55 CS	LN	3	2.993	1,2,3	
53.02	43 TC	LY1	2	4.440	1		53.66	60 NC	LY3	5	1.796	1,2,3	
53.11	62 SM	LB5	5	1.775	2		53.66	68 ER	LA2	5	1.796	1,2,3	
53.11	62 SM	LY5	5	1.775	1		53.72	34 SE	LA1	1	8.990	1,2,3	
53.18	72 HF	LL	5	1.781	1,2,3		53.72	34 SE	LA2	1	8.990	1,2	
53.23	52 TE	LB6	3	2.971	1,2,3		53.79	63 EU	LB10	5	1.800	1,2	
53.25	51 SB	LB9	3	2.972	1,2		53.81	50 SN	LY1	3	3.001	1,2,3	
53.27	68 ER	LA1	5	1.784	1,2,3		53.82	60 NC	LY2	5	1.801	1,2,3	
53.31	65 TB	LB4	5	1.785	1,2,3		53.89	51 SB	LB7	3	3.005	1	
53.34	33 AS	LB3	1	8.930	1,2,3		53.91	57 LA	LL	3	3.006	1,2,3	
53.34	33 AS	LB4	1	8.930	1,2		53.92	59 PR	LB4	4	2.255	1,2,3	
53.35	55 CS	LY3	4	2.233	1,2,3		53.96	52 TE	LB3	3	3.009	1,2,3	
53.38	65 TB	LL	4	2.234	1,2,3		54.00	59 PR	LB1	4	2.258	1,2,3	
53.38	51 SB	LB10	3	2.979	1,2		54.02	64 GC	LB6	5	1.807	1,2,3	
53.40	49 IN	LY2	3	2.980	1,2,3		54.08	54 XE	LA1	3	3.015	1	
53.40	49 IN	LY3	3	2.980	1,2		54.09	44 RU	LB4	2	4.523	1,2,3	
53.40	63 EU	LB7	5	1.788	1,2		54.18	63 EU	LB2	5	1.812	1,2,3	
53.43	27 CC	KA1	5	1.789	1,2,3		54.23	51 SB	LB2	3	3.023	1,2,3	
53.45	55 CS	LY2	4	2.237	1,2,3		54.27	64 GC	LB3	5	1.815	1,2,3	
53.53	63 EU	LB9	5	1.792	1,2		54.27	54 XE	LA2	3	3.025	1	

MICA CRYSTAL, D# 9.94E ANGSTROMS						54.28 TO 56.35					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
54.28	23 V	KB5	4	2.269	1,2	55.29	56 BA	LY5	4	2.308	1,2
54.31	61 PM	LY1	5	1.816	1	55.34	44 RU	LB1	2	4.620	1,2,3
54.39	21 SC	KA1	3	3.031	1,2,3	55.37	58 CE	LB3	4	2.311	1,2,3
54.40	59 PR	LY4	5	1.819	1,2	55.40	64 GC	LL	4	2.312	1,2,3
54.44	57 LA	LB7	4	2.275	1,2	55.44	35 BR	LN	1	9.254	1,3
54.47	21 SC	KA2	3	3.035	1,2,3	55.44	50 SN	LY5	3	3.085	1,2
54.59	58 CE	LB6	4	2.281	1,2,3	55.51	64 GC	LB4	5	1.853	1,2,3
54.62	57 LA	LB9	4	2.282	1,2	55.54	20 CA	KB1	3	3.090	1,2,3
54.63	67 HO	LN	5	1.826	1,2,3	55.55	43 TC	LB2	2	4.636	1
54.64	61 PM	LA1	4	2.283	1,2,3	55.57	60 NC	LY6	5	1.855	2
54.67	23 V	KB3	4	2.284	1,2	55.60	67 HC	LA2	5	1.856	1,2,3
54.67	23 V	KB1	4	2.284	1,2,3	55.60	62 SM	LB7	5	1.856	1,2
54.68	52 TE	LB4	3	3.046	1,2,3	55.77	62 SM	LB9	5	1.861	1,2
54.82	57 LA	LB10	4	2.290	1,2	55.79	41 NB	LY3	2	4.654	1,2
54.82	24 CR	KA1	4	2.290	1,2,3	55.79	41 NB	LY2	2	4.654	1,2,3
54.88	61 PM	LA2	4	2.292	1	55.87	46 PD	LN	2	4.660	1,2,3
54.93	24 CR	KA2	4	2.294	1,2,3	56.03	51 SB	LB6	3	3.115	1,2,3
54.95	71 LU	LL	5	1.836	1,2,3	56.03	62 SM	LB10	5	1.869	1,2
55.05	45 RH	LA1	2	4.597	1,2,3	56.03	50 SN	LB9	3	3.115	1,2
55.15	45 RH	LA2	2	4.605	1,2,3	56.15	50 SN	LB10	3	3.121	1,2
55.16	57 LA	LB2	4	2.303	1,2,3	56.19	63 EU	LB6	5	1.874	1,2,3
55.23	20 CA	KB5	3	3.074	1,2	56.19	59 PR	LY3	5	1.874	1,2,3
55.25	67 HO	LA1	5	1.845	1,2,3	56.32	60 NC	LY1	5	1.878	1,2,3
55.28	64 GC	LB1	5	1.846	1,2,3	56.34	55 CS	LY1	4	2.348	1,2,3
55.29	52 TE	LB1	3	3.077	1,2,3	56.35	59 PR	LY2	5	1.879	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS							56.36 TO 58.40						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
56.36	5E	CE	LB4	4	2.349	1,2,3	57.21	50	SN	LB2	3	3.175	1,2,3
56.42	5E	BA	LL	3	3.135	1,2,3	57.34	66	DY	LA1	5	1.909	1,2,3
56.45	6E	SM	LB2	5	1.882	1,2,3	57.36	56	BA	LB10	4	2.387	1,2
56.46	4E	CD	LY3	3	3.137	1,2	57.37	25	MA	KB1	5	1.910	1,2,3
56.48	4E	AG	LL	2	4.707	1,2,3	57.42	12	MG	KB1	1	9.558	1,2,3
56.48	3E	AS	LB1	1	9.414	1,3	57.46	53	I	LY4	4	2.391	1,2
56.48	4E	CD	LY2	3	3.138	1,2,3	57.50	51	SE	LB4	3	3.190	1,2,3
56.54	5E	CE	LB1	4	2.356	1,2,3	57.57	63	EU	LL	4	2.395	1,2,3
56.62	6E	EU	LB3	5	1.887	1,2,3	57.59	35	BR	LL	1	9.583	1,2,3
56.68	5E	I	LA1	3	3.148	1,2,3	57.70	63	EU	LB1	5	1.920	1,2,3
56.73	4E	MG	LY1	2	4.726	1,2,3	57.70	66	DY	LA2	5	1.920	1,2,3
56.75	5	SB	LB3	3	3.152	1,2,3	57.80	56	BA	LB2	4	2.404	1,2,3
56.75	1E	CL	KA1	2	4.728	1,2,3	57.90	63	EU	LB4	5	1.926	1,2,3
56.78	1E	CL	KA2	2	4.730	1,2,3	57.94	60	NC	LN	4	2.409	1,2,3
56.81	50	SN	LB7	3	3.155	1,2	57.96	57	LA	LB3	4	2.410	1,2,3
56.85	7E	YB	LL	5	1.894	1,2,3	58.15	55	CS	LY5	4	2.417	1,2
56.87	5E	I	LA2	3	3.158	1,2,3	58.17	33	AS	LA1	1	9.671	1,2,3
56.91	6E	ND	LA1	4	2.370	1,2,3	58.17	33	AS	LA2	1	9.671	1,2
56.94	66	DY	LN	5	1.897	1,2,3	58.19	42	MC	LY5	2	4.837	1,2
56.94	2E	MN	KB5	5	1.897	1,2	58.19	60	ND	LY5	5	1.935	1,2
56.95	4E	IN	LY1	3	3.162	1,2,3	58.21	51	SE	LB1	3	3.226	1,2,3
57.01	5E	CE	LY4	5	1.899	1,2	58.23	26	FE	KA1	5	1.936	1,2,3
57.07	5E	BA	LB9	4	2.376	1,2	58.30	44	RU	LA1	2	4.846	1,2,3
57.15	5E	LA	LB6	4	2.379	1,2,3	58.36	26	FE	KA2	5	1.940	1,2,3
57.17	6E	ND	LA2	4	2.380	1,3	58.40	44	RU	LA2	2	4.853	1,2,3

MICA CRYSTAL, D# 9.94E ANGSTROMS						58.55 TO 60.50					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
58.55	62 SM	L86	5	1.946	1,2,3	59.61	12 MG	KA1	1	9.889	1,2,3
58.67	49 IN	LY5	3	3.249	1,2	59.61	12 MG	KA2	1	9.889	1,2,3
58.81	43 TC	L81	2	4.884	1	59.63	59 PR	LA2	4	2.473	1,2,3
58.85	69 TM	LL	5	1.955	1,2,3	59.64	52 TE	LA2	3	3.298	1,2,3
58.85	58 CE	LY3	5	1.955	1,2,3	59.71	46 PC	LL	2	4.952	1,2,3
58.92	61 PM	L82	5	1.957	1	59.72	40 ZR	LY2	2	4.953	1,2,3
58.94	53 I	LY3	4	2.447	1,2	59.72	40 ZR	LY3	2	4.953	1,2
58.94	53 I	LY2	4	2.447	1,2,3	59.76	55 CS	LB9	4	2.478	1,2
58.99	57 LA	L84	4	2.449	1,2,3	59.78	57 LA	LY4	5	1.983	1,2
59.02	58 CE	LY2	5	1.960	1,2,3	59.80	47 AG	LY2	3	3.306	1,3
59.02	55 CS	LL	3	3.267	1,2,3	59.80	47 AG	LY3	3	3.306	1,2
59.04	49 IN	LB9	3	3.268	1,2	59.80	50 SN	L83	3	3.306	1,2,3
59.05	59 PR	LY1	5	1.961	1,2,3	59.87	62 SM	LL	4	2.482	1,2,3
59.06	53 SN	L86	3	3.269	1,2,3	59.87	56 BA	LB6	4	2.482	1,2,3
59.08	62 SM	L83	5	1.962	1,2,3	59.88	65 TB	LA2	5	1.986	1,2,3
59.16	49 IN	L810	3	3.274	1,2	59.95	55 CS	LB7	4	2.485	1,2
59.23	57 LA	L81	4	2.458	1,2,3	60.07	34 SE	LN	1	9.959	1,2,3
59.28	53 I	LN	3	3.280	1,2,3	60.13	55 CS	LB10	4	2.492	1,2
59.31	45 RH	LN	2	4.922	1,2,3	60.28	62 SM	L81	5	1.998	1,2,3
59.32	42 MO	L82	2	4.923	1,2,3	60.29	22 TI	K85	4	2.498	1,2
59.34	54 XE	LY1	4	2.462	1	60.35	62 SM	LB4	5	2.000	1,2,3
59.36	59 PR	LAI	4	2.463	1,2,3	60.40	48 CC	LY1	3	3.336	1,2,3
59.45	65 TB	LN	5	1.973	1	60.43	23 V	KA1	4	2.503	1,2,3
59.46	52 TE	LAI	3	3.289	1,2,3	60.44	49 IN	LB2	3	3.338	1,2,3
59.51	65 TB	LAI	5	1.975	1,2,3	60.50	65 TB	MA1	1	10.023	2

MICA CRYSTAL, DH 9.94E ANGSTROMS							60.50 TO 62.54						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
60.50	65 TB	MA2	1	10.023	2		61.82	56 BA	LB4	4	2.555	1,2,3	
60.52	42 MC	LB3	2	5.013	1,2,3		61.87	43 TC	LA1	2	5.114	1	
60.53	23 V	KA2	4	2.507	1,2,3		61.88	57 LA	LY2	5	2.046	1,2,3	
60.54	53 SN	LB4	3	3.343	1,2,3		61.88	64 GC	LA1	5	2.046	1,2,3	
60.64	55 CS	LB2	4	2.511	1,2,3		61.92	83 BI	MA1	2	5.118	1,2	
60.64	52 TE	LY4	4	2.511	1,2		61.95	58 CE	LY1	5	2.048	1,2,3	
60.65	60 ND	LB7	5	2.009	1,2		61.98	58 CE	LA1	4	2.561	1,2,3	
60.67	59 PR	LN	4	2.512	1,2,3		61.98	64 GC	LN	5	2.049	1,2,3	
60.72	22 TI	KB1	4	2.514	1,2,3		61.99	43 TC	LA2	2	5.123	1	
60.72	22 TI	KB3	4	2.514	1,2		62.07	83 BI	MA2	2	5.129	1,2	
60.77	16 S	KB1	2	5.032	1,2,3		62.14	56 BA	LB1	4	2.567	1,2,3	
60.77	56 BA	LB3	4	2.516	1,2,3		62.14	52 TE	LY2	4	2.567	1,3	
60.83	41 NB	LY1	2	5.036	1,2,3		62.14	52 TE	LY3	4	2.567	1,2	
60.84	20 CA	KA1	3	3.358	1,2,3		62.19	48 CC	LY5	3	3.425	1,2	
60.88	60 ND	LB9	5	2.016	1,2		62.22	58 CE	LA2	4	2.570	1,2,3	
60.92	20 CA	KA2	3	3.362	1,2,3		62.25	64 GC	LA2	5	2.057	1,2,3	
60.98	68 ER	LL	5	2.019	1,2,3		62.29	48 CC	LB9	3	3.430	1,2	
61.00	42 MC	LB4	2	5.049	1,2,3		62.31	34 SE	LL	1	10.293	1,2,3	
61.00	42 MC	LB6	2	5.049	1,2,3		62.37	41 NB	LY5	2	5.151	1,2	
61.01	59 PR	LY5	5	2.020	1,2		62.41	49 IN	LB6	3	3.436	1,2,3	
61.11	60 ND	LB10	5	2.023	1,2		62.43	48 CC	LB10	3	3.437	1,2	
61.38	50 SN	LB1	3	3.385	1,2,3		62.45	52 TE	LN	3	3.438	1,2,3	
61.55	60 ND	LB2	5	2.036	1,2,3		62.47	51 SE	LA1	3	3.439	1,2,3	
61.64	32 GE	LB1	1	10.194	2,3		62.51	19 K	KB5	3	3.441	1,2	
61.72	57 LA	LY3	5	2.041	1,2,3		62.54	53 I	LY1	4	2.582	1,2,3	

MICA CRYSTAL, D# 9.94E ANGSTROMS							62.65 TO 65.00						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
62.65	51 SB	LA2	3	3.448	1,2,3		63.85	49 IN	LB4	3	3.507	1,2,3	
62.72	42 MC	LB1	2	5.177	1,2,3		63.91	25 MN	KA2	5	2.106	1,2,3	
62.73	24 CR	K85	5	2.071	1,2		63.94	59 PR	LB10	5	2.107	1,2	
62.77	19 K	KB1	3	3.454	1,2,3		63.99	48 CC	LB2	3	3.514	1,2,3	
62.84	55 CS	LB6	4	2.593	1,2,3		64.05	58 CE	LY5	5	2.110	1,2	
62.86	56 BA	LY4	5	2.075	1,2		64.09	51 SB	LY4	4	2.639	1,2	
63.06	61 PM	LB1	5	2.081	1,2,3		64.15	39 Y	LY3	2	5.283	2	
63.10	49 IN	LB3	3	3.470	1,2,3		64.15	39 Y	LY2	2	5.283	1,2,3	
63.10	44 RU	LN	2	5.205	1,2,3		64.17	47 AG	LY1	3	3.523	1,2,3	
63.20	24 CR	KB3	5	2.085	1,2		64.18	82 PB	PA1	2	5.285	1,2	
63.20	24 CR	KB1	5	2.085	1,2,3		64.35	59 PR	LB2	5	2.119	1,2,3	
63.23	67 HC	LL	5	2.086	1,2,3		64.37	82 PB	PA2	2	5.299	1,2	
63.26	45 RH	LL	2	5.217	1,2,3		64.42	63 EU	LA1	5	2.121	1,2,3	
63.40	59 PR	LB7	5	2.091	1,2		64.52	41 NB	LB3	2	5.310	1,2,3	
63.41	32 GE	LA1	1	10.456	2,3		64.58	53 I	LY5	4	2.657	1,2	
63.41	32 GE	LA2	1	10.456	2		64.59	60 ND	LB3	5	2.126	1,2,3	
63.48	46 PD	LY3	3	3.489	1,2		64.76	63 EU	LN	5	2.131	1	
63.48	46 PD	LY2	3	3.489	1,2,3		64.79	57 LA	LA1	4	2.665	1,2,3	
63.54	41 NB	LB2	2	5.238	1,2,3		64.79	63 EU	LA2	5	2.132	1,2,3	
63.57	58 CE	LN	4	2.620	1,2,3		64.82	55 CS	LB4	4	2.666	1,2,3	
63.71	59 PR	LB9	5	2.100	1,2		64.83	49 IN	LB1	3	3.555	1,2,3	
63.73	54 XE	LB2	4	2.626	1		64.86	56 BA	LY3	5	2.134	1,2,3	
63.77	25 MN	KA1	5	2.102	1,2,3		64.87	53 I	LL	3	3.557	1,2,3	
63.79	55 CS	LB3	4	2.628	1,2,3		65.00	41 NB	LB4	2	5.345	1,2,3	
63.84	60 ND	LB6	5	2.104	1,2,3		65.00	56 BA	LY2	5	2.138	1,2,3	

MICA CRYSTAL, DH 9.94E ANGSTROMS						65.04 TO 67.47					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
65.04	57 LA	LA2	4	2.674	1,2,3	66.23	55 CS	LY4	5	2.174	1,2
65.09	60 ND	LL	4	2.675	1,2,3	66.30	53 I	LB10	4	2.720	1,2
65.14	57 LA	LY1	5	2.142	1,2,3	66.44	58 CE	LB7	5	2.180	1,2
65.22	41 NB	LB6	2	5.361	1,2,3	66.58	53 I	LB7	4	2.730	1,2
65.29	55 CS	LB1	4	2.683	1,2,3	66.59	81 TL	MA1	2	5.461	1,2
65.29	33 AS	LN	1	10.733	1,3	66.68	48 CD	LB3	3	3.645	1,2,3
65.37	16 S	KA1	2	5.372	1,2,3	66.71	58 CE	LB9	5	2.183	1,2
65.41	16 S	KA2	2	5.375	1,2,3	66.74	81 TL	MA2	2	5.472	1,2
65.53	40 ZR	LY1	2	5.384	1,2,3	66.78	59 PR	LB6	5	2.190	1,2,3
65.61	51 SE	LY2	4	2.695	1,2,3	66.81	63 EU	MA1	1	10.954	1
65.61	51 SE	LY3	4	2.695	1,2	66.85	57 LA	LN	4	2.740	1,2,3
65.68	66 DY	LL	5	2.153	1,2,3	66.96	58 CE	LB10	5	2.195	1,2
65.75	50 SN	LA1	3	3.600	1,2,3	67.02	41 NB	LB1	2	5.492	1,2,3
65.83	42 MC	LA1	2	5.400	1,2,3	67.07	22 TI	KA1	4	2.748	1,2,3
65.85	47 AG	LB9	3	3.605	1,2	67.09	40 ZR	LY5	2	5.497	1,2
65.92	51 SB	LN	3	3.608	1,2,3	67.09	62 SM	LA1	5	2.199	1,2,3
65.94	50 SN	LA2	3	3.600	1,2,3	67.13	53 I	LB2	4	2.750	1,2,3
65.94	42 MC	LA2	2	5.414	1,2,3	67.17	44 RU	LL	2	5.503	1,2,3
65.98	47 AG	LB10	3	3.61	1,2	67.18	22 TI	KA2	4	2.752	1,2,3
65.99	60 ND	LB1	5	2.167	1,2,3	67.30	57 LA	LY5	5	2.205	1,2
65.99	60 ND	LB4	5	2.167	1,2,3	67.44	31 GA	LB1	1	11.045	3
66.04	48 CD	LB6	3	3.614	1,2,3	67.44	58 CE	LB2	5	2.209	1,2,3
66.08	47 AG	LY5	3	3.616	1,2	67.45	48 CD	LB4	3	3.682	1,2,3
66.08	52 TE	LY1	4	2.712	1,2,3	67.47	62 SM	LA2	5	2.210	1,2,3
66.11	53 I	LB9	4	2.713	1,2						

MICA CRYSTAL, D# 9.94E ANGSTROMS							67.51 TO 70.06						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
67.51	45 RH	LY3	3	3.685	1,2		68.98	40 ZR	LB3	2	5.633	1,2,3	
67.51	45 RH	LY2	3	3.685	1,2,3		69.04	59 PR	LB4	5	2.255	1,2,3	
67.52	21 SC	KB5	4	2.764	1,2		69.13	38 SR	LY3	2	5.644	1,2	
67.61	33 AS	LL	1	11.069	1,3		69.13	38 SR	LY2	2	5.644	1,2,3	
67.72	59 PR	LB3	5	2.217	1,2,3		69.14	59 PR	LB1	5	2.258	1,2,3	
67.75	62 SM	LN	5	2.218	1,2,3		69.31	31 GA	LA1	1	11.313	3	
67.82	56 BA	LA1	4	2.775	1,2,3		69.33	49 IN	LA1	3	3.772	1,3	
67.88	50 SN	LY4	4	2.777	1,2		69.44	50 SN	LY2	4	2.833	1,3	
67.88	47 AG	LB2	3	3.703	1,2,3		69.44	80 HG	MA1	2	5.666	1,2	
67.96	21 SC	KB1	4	2.780	1,2,3		69.44	80 HG	MA2	2	5.666	1,2	
68.07	59 PR	LL	4	2.784	1,2,3		69.47	40 ZR	LB4	2	5.668	1,2,3	
68.10	56 BA	LA2	4	2.785	1,2,3		69.52	49 IN	LA2	3	3.781	1,2,3	
68.18	52 TE	LL	3	3.717	1,2,3		69.53	23 V	KB5	5	2.269	1,2	
68.24	52 TE	LY5	4	2.790	1,2		69.55	53 I	LB6	4	2.837	1,2,3	
68.27	55 CS	LY3	5	2.233	1,2,3		69.61	52 TE	LB9	4	2.839	1,2	
68.31	65 TB	LL	5	2.234	1,2,3		69.68	50 SN	LN	3	3.789	1,2,3	
68.32	40 ZR	LB2	2	5.586	2,3		69.74	57 LA	LB7	5	2.275	1,2	
68.32	46 PD	LY1	3	3.724	1,2,3		69.75	46 PC	LB9	3	3.792	1,2	
68.41	55 CS	LY2	5	2.237	1,2,3		69.83	52 TE	LB10	4	2.847	1,2	
68.55	56 BA	LY1	5	2.241	1,2,3		69.89	46 PC	LB10	3	3.799	1,2	
68.60	54 XE	LB1	4	2.803	1		69.94	51 SE	LY1	4	2.851	1,2,3	
68.61	48 CD	LB1	3	3.738	1,2,3		69.95	58 CE	LB6	5	2.281	1,2,3	
68.68	19 K	KA1	3	3.741	1,2,3		69.99	57 LA	LB9	5	2.282	1,2	
68.69	30 ZN	LB3	1	11.225	3		70.02	61 PM	LA1	5	2.283	1,2,3	
68.76	19 K	KA2	3	3.745	1,2,3		70.06	40 ZR	LB6	2	5.710	1,2,3	

MICA CRYSTAL, D# 9.94E ANGSTROMS							70.06 TO 73.33						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
70.06	23 V	KB1	5	2.284	1,2,3		71.45	11 NA	KB1	1	11.617	1,3	
70.06	23 V	KB3	5	2.284	1,2		71.67	53 I	LB4	4	2.912	1,2,3	
70.08	47 AG	LB6	3	3.828	1,2,3		71.70	18 A	KB1	3	3.884	1	
70.25	56 BA	LN	4	2.862	1,2,3		71.78	51 SB	LL	3	3.888	1,2,3	
70.25	41 NB	LA1	2	5.724	1,2,3		71.84	40 ZR	LB1	2	5.836	1,2,3	
70.27	57 LA	LB10	5	2.290	1,2		71.90	79 AL	MA1	2	5.840	1,2	
70.27	24 CR	KA1	5	2.290	1,2,3		71.97	44 RU	LY2	3	3.897	1,2,3	
70.28	52 TE	LB7	4	2.863	1,2		71.97	44 RU	LY3	3	3.897	1,2	
70.34	61 PM	LA2	5	2.292	1		72.00	42 MC	LN	2	5.847	1,2,3	
70.37	41 NB	LA2	2	5.732	2,3		72.07	49 IN	LY4	4	2.926	1,2	
70.38	46 PD	LY5	3	3.822	1,2		72.10	79 AU	MA2	2	5.854	1,2	
70.41	24 CR	KA2	5	2.294	1,2,3		72.23	46 PD	LB2	3	3.909	1,2,3	
70.59	53 I	LB3	4	2.874	1,2,3		72.24	51 SB	LY5	4	2.932	1,2	
70.61	47 AG	LB3	3	3.835	1,2,3		72.25	92 U	MA1	3	3.910	1,2	
70.73	57 LA	LB2	5	2.303	1,2,3		72.32	55 CS	LY1	5	2.348	1,2,3	
70.82	52 TE	LB2	4	2.882	1,2,3		72.36	58 CE	LB4	5	2.349	1,2,3	
70.90	56 BA	LY5	5	2.308	1,2		72.38	53 I	LB1	4	2.937	1,2,3	
71.01	58 CE	LB3	5	2.311	1,2,3		72.39	39 Y	LY5	2	5.875	1,2	
71.04	64 GD	LL	5	2.312	1,2,3		72.55	92 U	MA2	3	3.924	1,2	
71.10	58 CE	LL	4	2.892	1,2,3		72.61	58 CE	LB1	5	2.356	1,2,3	
71.10	55 CS	LA1	4	2.892	1,2,3		72.77	47 AG	LB1	3	3.934	1,2,3	
71.38	32 GE	LN	1	11.608	3		72.96	45 RH	LY1	3	3.943	1,2,3	
71.38	55 CS	LA2	4	2.902	1,2,3		73.11	60 ND	LA1	5	2.370	1,2,3	
71.38	15 P	KB1	2	5.804	1,2,3		73.24	48 CD	LA1	3	3.956	1,2,3	
71.40	47 AG	LB4	3	3.870	1,2,3		73.33	56 BA	LB9	5	2.376	1,2	

MICA CRYSTAL, D# 9.94E ANGSTROMS							73.35 TO 76.30						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
73.35	52 TE	LB6	4	2.971	1,2,3		74.55	57 LA	LB3	5	2.410	1,2,3	
73.38	51 SB	LB9	4	2.972	1,2		74.62	54 XE	LA1	4	3.015	1	
73.43	48 CD	LA2	3	3.965	1,2,3		74.67	91 PA	MA1	3	4.022	1,2	
73.43	57 LA	LB6	5	2.379	1,2,3		74.80	55 CS	LY5	5	2.417	1,2	
73.47	60 ND	LA2	5	2.380	1,3		74.84	37 RB	LY3	2	6.045	1,2	
73.53	11 NA	KA2	1	11.909	1,3		74.85	37 RB	LY2	2	6.046	1,2,3	
73.53	11 NA	KA1	1	11.909	1,3		74.85	78 PT	MA1	2	6.046	1,2	
73.58	51 SB	LB10	4	2.979	1,2		74.85	51 SB	LB2	4	3.023	1,2,3	
73.61	49 IN	LY2	4	2.980	1,2,3		74.91	54 XE	LA2	4	3.025	1	
73.61	49 IN	LY3	4	2.980	1,2		74.93	46 PD	LB3	3	4.034	1,2,3	
73.72	56 BA	LB10	5	2.387	1,2		74.95	91 PA	MA2	3	4.035	1,2	
73.79	32 GE	LL	1	11.944	3		75.01	78 PT	MA2	2	6.057	1,2	
73.82	49 IN	LN	3	3.983	1,2,3		75.09	21 SC	KA1	4	3.031	1,2,3	
73.86	53 I	LY4	5	2.391	1,2		75.17	45 RH	LY5	3	4.045	1,2	
73.94	39 Y	LB3	2	5.983	1,2,3		75.20	21 SC	KA2	4	3.035	1,2,3	
73.99	55 CS	LN	4	2.993	1,2,3		75.20	40 ZR	LA1	2	6.070	1,2,3	
74.01	63 EU	LL	5	2.395	1,2,3		75.32	40 ZR	LA2	2	6.078	1,2,3	
74.22	50 SN	LY1	4	3.001	1,2,3		75.52	52 TE	LB4	4	3.046	1,2,3	
74.33	51 SB	LB7	4	3.005	1		75.55	39 Y	LB6	2	6.094	1,2,3	
74.33	56 BA	LB2	5	2.404	1,2,3		75.74	50 SN	LL	3	4.071	1,2,3	
74.36	57 LA	LL	4	3.006	1,2,3		75.74	46 PD	LB4	3	4.071	1,2,3	
74.45	39 Y	LB4	2	6.018	1,2,3		75.90	53 I	LY2	5	2.447	1,2,3	
74.45	52 TE	LB3	4	3.009	1,2,3		75.90	53 I	LY3	5	2.447	1,2	
74.51	60 ND	LN	5	2.409	1,2,3		75.97	57 LA	LB4	5	2.449	1,2,3	
74.54	46 PD	LB6	3	4.016	1,2,3		76.30	57 LA	LB1	5	2.458	1,2,3	

MICA CRYSTAL, DH 9.94E ANGSTROMS							76.34 TO 78.94						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
76.34	20 CA	KB5	4	3.074	1,2		77.76	47 AG	LA2	3	4.163	1,2,3	
76.37	42 MC	LL	2	6.50	1,2,3		77.77	22 TI	KB5	5	2.498	1,2	
76.43	52 TE	LBI	4	3.077	1,2,3		77.96	23 V	KA1	5	2.503	1,2,3	
76.44	54 XE	LY1	5	2.462	1		78.01	77 IR	MA1	2	6.261	1,2	
76.44	15 P	KA1	2	6.155	1,2,3		78.10	23 V	KA2	5	2.507	1,2,3	
76.44	15 P	KA2	2	6.155	1,2,3		78.14	56 BA	LL	4	3.135	1,2,3	
76.48	59 PR	LA1	5	2.463	1,2,3		78.19	44 RU	LY1	3	4.182	1,2,3	
76.66	50 SN	LY5	4	3.085	1,2		78.20	48 CC	LY3	4	3.137	1,2	
76.81	20 CA	KB1	4	3.090	1,2,3		78.21	77 IR	MA2	2	6.275	1,2	
76.85	59 PR	LA2	5	2.473	1,2,3		78.23	48 CC	LY2	4	3.138	1,2,3	
77.03	55 CS	LB9	5	2.478	1,2		78.25	55 CS	LB2	5	2.511	1,2,3	
77.05	45 RH	LB2	3	4.131	1,2,3		78.25	52 TE	LY4	5	2.511	1,2	
77.18	56 BA	LB6	5	2.482	1,2,3		78.29	59 PR	LN	5	2.512	1,2,3	
77.18	62 SM	LL	5	2.482	1,2,3		78.36	22 TI	KB1	5	2.514	1,2,3	
77.21	90 TH	MA1	3	4.138	1,2		78.36	22 TI	KB3	5	2.514	1,2	
77.27	41 NB	LN	2	6.211	1,2,3		78.41	18 A	KA1	3	4.192	1,2,3	
77.28	39 Y	LBI	2	6.212	1,2,3		78.43	48 CC	LN	3	4.193	1,3	
77.29	55 CS	LB7	5	2.485	1,2		78.44	56 BA	LB3	5	2.516	1,2,3	
77.39	46 PD	LBI	3	4.146	1,2,3		78.47	18 A	KA2	3	4.195	1,2,3	
77.50	90 TH	MA2	3	4.151	1,2		78.53	38 SR	LY5	2	6.296	1,2	
77.55	55 CS	LB10	5	2.492	1,2		78.53	53 I	LA1	4	3.148	1,2,3	
77.55	51 SB	LB6	4	3.115	1,2,3		78.65	51 SB	LB3	4	3.152	1,2,3	
77.55	50 SN	LB9	4	3.115	1,2		78.74	50 SN	LB7	4	3.155	1,2	
77.56	47 AG	LA1	3	4.154	1,2,3		78.82	53 I	LA2	4	3.158	1,2,3	
77.73	50 SN	LB10	4	3.121	1,2		78.94	49 IN	LY1	4	3.162	1,2,3	

MICA CRYSTAL, D# 9.94E ANGSTROMS						79.33 TO 83.54					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
79.33	5J SN	LB2	4	3.175	1,2,3	82.02	75 RE	MA1	2	6.528	1,2
79.53	45 RH	LB6	3	4.242	1,2,3	82.11	55 CS	LL	4	3.267	1,2,3
79.59	38 SR	LB3	2	6.367	1,2,3	82.14	49 IN	LB9	4	3.268	1,2
79.75	45 RH	LB3	3	4.252	1,2,3	82.18	50 SN	LB6	4	3.269	1,2,3
79.78	51 SB	LB4	4	3.190	1,2,3	82.33	49 IN	LB10	4	3.274	1,2
79.90	56 BA	LB4	5	2.555	1,2,3	82.36	58 CE	LN	5	2.620	1,2,3
80.12	58 CE	LA1	5	2.561	1,2,3	82.39	46 PC	LA1	3	4.368	1,2,3
80.13	38 SR	LB4	2	6.423	1,2,3	82.48	44 RU	LB2	3	4.372	1,2,3
80.14	49 IN	LL	3	4.269	1,2,3	82.51	53 I	LN	4	3.280	1,2,3
80.35	52 TE	LY3	5	2.567	1,2	82.53	45 RH	LB1	3	4.374	1,2,3
80.35	52 TE	LY2	5	2.567	1,3	82.57	46 PC	LA2	3	4.376	1,2,3
80.35	56 BA	LB1	5	2.567	1,2,3	82.59	54 XE	LB2	5	2.626	1
80.46	58 CE	LA2	5	2.570	1,2,3	82.67	55 CS	LB3	5	2.628	1,2,3
80.54	44 RU	LY5	3	4.287	1,2	82.67	42 MC	LY3	3	4.380	1,2
80.59	45 RH	LB4	3	4.289	1,2,3	82.67	42 MC	LY2	3	4.380	1,2,3
80.82	39 Y	LA1	2	6.449	1,2,3	82.79	52 TE	LA1	4	3.289	1,2,3
80.87	51 SB	LB1	4	3.226	1,2,3	83.06	52 TE	LA2	4	3.298	1,2,3
80.91	53 I	LY1	5	2.582	1,2,3	83.09	51 SB	LY4	5	2.639	1,2
80.93	39 Y	LA2	2	6.456	1,2,3	83.20	17 CL	KB1	3	4.403	1,2,3
81.33	55 CS	LB6	5	2.593	1,2,3	83.23	40 ZR	LN	2	6.607	1,2,3
81.44	76 OS	MA2	2	6.490	1,2	83.31	47 AG	LY3	4	3.306	1,2
81.44	76 OS	MA1	2	6.490	1,2	83.31	50 SN	LB3	4	3.306	1,2,3
81.57	49 IN	LY5	4	3.249	1,2	83.31	47 AG	LY2	4	3.306	1,3
81.85	41 NB	LL	2	6.517	1,2,3	83.50	38 SR	LB1	2	6.624	1,2,3
81.89	38 SR	LB6	2	6.519	1,2,3	83.54	47 AG	LN	3	4.418	1,2,3

MICA CRYSTAL, D# 9.948 ANGSTROMS						83.78 TO 88.51					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
83.78	53 I	LY5	5	2.657	1,2	86.56	37 RB	LB4	2	6.820	1,2,3
84.05	43 TC	LY1	3	4.440	1	86.64	53 I	LB7	5	2.730	1,2
84.09	57 LA	LA1	5	2.665	1,2,3	87.04	57 LA	LN	5	2.740	1,2,3
84.13	55 CS	LB4	5	2.666	1,2,3	87.04	48 CC	LY5	4	3.425	1,2
84.24	43 CC	LY1	4	3.336	1,2,3	87.19	48 CC	LB9	4	3.430	1,2
84.30	49 IN	LB2	4	3.338	1,2,3	87.24	38 SR	LA1	2	6.863	1,2,3
84.44	57 LA	LA2	5	2.674	1,2,3	87.34	38 SR	LA2	2	6.869	1,2,3
84.46	50 SN	LB4	4	3.343	1,2,3	87.35	22 TI	KA1	5	2.748	1,2,3
84.52	61 ND	LL	5	2.676	1,2,3	87.39	49 IN	LB6	4	3.436	1,2,3
84.79	55 CS	LB1	5	2.683	1,2,3	87.42	48 CC	LB10	4	3.437	1,2
84.93	21 CA	KA1	4	3.358	1,2,3	87.43	53 I	LB2	5	2.750	1,2,3
84.99	43 CC	LL	3	4.460	1,2,3	87.45	52 TE	LN	4	3.438	1,2,3
85.05	21 CA	KA2	4	3.362	1,2,3	87.48	51 SB	LA1	4	3.439	1,2,3
85.15	44 RU	LB6	3	4.487	1,2,3	87.51	22 TI	KA2	5	2.752	1,2,3
85.15	44 RU	LB3	3	4.487	1,2,3	87.54	19 K	KB5	4	3.441	1,2
85.26	51 SB	LY3	5	2.695	1,2	87.76	45 RH	LA1	3	4.597	1,2,3
85.26	51 SB	LY2	5	2.695	1,2,3	87.77	51 SB	LA2	4	3.448	1,2,3
85.52	37 RB	LY5	2	6.754	1,2	87.95	45 RH	LA2	3	4.605	1,2,3
85.74	14 SI	KB1	2	6.768	1,2,3	87.96	19 K	KB1	4	3.454	1,2,3
85.77	50 SN	LB1	4	3.385	1,2,3	87.99	21 SC	KB5	5	2.764	1,2
85.93	52 TE	LY1	5	2.72	1,2,3	88.12	40 ZR	LL	2	6.918	1,2,3
85.97	53 I	LB9	5	2.73	1,2	88.31	44 RU	LB1	3	4.620	1,2,3
86.00	44 RU	LB4	3	4.523	1,2,3	88.43	56 BA	LA1	5	2.775	1,2,3
86.04	37 RB	LB3	2	6.787	1,2,3	88.47	49 IN	LB3	4	3.470	1,2,3
86.24	53 I	LB10	5	2.720	1,2	88.51	50 SA	LY4	5	2.777	1,2

MICA CRYSTAL, D# 9.94E ANGSTROMS						88.63 TO 89.90					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
88.63	21 SC	KB1	5	2.78E	1,2,3						
88.70	43 TC	LB2	3	4.636	1						
88.80	59 PR	LL	5	2.784	1,2,3						
88.84	56 BA	LA2	5	2.785	1,2,3						
89.04	52 TE	LY5	5	2.790	1,2						
89.09	46 PD	LY3	4	3.489	1,2						
89.09	46 PD	LY2	4	3.489	1,2,3						
89.13	41 NB	LY2	3	4.654	1,2,3						
89.13	41 NB	LY3	3	4.654	1,2						
89.17	74 W	MA1	2	6.983	1,2						
89.18	37 RB	LB6	2	6.984	1,2,3						
89.28	74 W	MA2	2	6.990	1,2						
89.28	46 PD	LN	3	4.660	1,2,3						
89.56	54 XE	LB1	5	2.803	1						
89.67	49 IN	LB4	4	3.507	1,2,3						
89.90	48 CC	LB2	4	3.514	1,2,3						

MICA CRYSTAL, D# 9.94E ANGSTROMS							90.09 TO 96.23						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
90.09	39 Y	LN	2	7.040	1,2,3		93.20	48 CC	LB6	4	3.614	1,2,3	
90.19	47 AG	LY1	4	3.523	1,2,3		93.23	58 CE	LL	5	2.892	1,2,3	
90.42	47 AG	LL	3	4.707	1,2,3		93.23	55 CS	LA1	5	2.892	1,2,3	
90.68	37 RB	LB1	2	7.016	1,2,3		93.27	47 AG	LY5	4	3.616	1,2	
90.79	50 SN	LY2	5	2.833	1,3		93.59	73 TA	MA1	2	7.251	1,2	
90.89	42 MC	LY1	3	4.726	1,2,3		93.65	55 CS	LA2	5	2.902	1,2,3	
90.94	17 CL	KA1	3	4.728	1,2,3		93.66	42 MC	LY5	3	4.837	1,2	
90.95	53 I	LB6	5	2.827	1,2,3		93.70	73 TA	MA2	2	7.258	1,2	
90.99	17 CL	KA2	3	4.730	1,2,3		93.89	44 RU	LA1	3	4.846	1,2,3	
91.03	52 TE	LB9	5	2.829	1,2		94.07	44 RU	LA2	3	4.853	1,2,3	
91.24	49 IN	LB1	4	3.555	1,2,3		94.08	53 I	LB4	5	2.912	1,2,3	
91.31	53 I	LL	4	3.557	1,2,3		94.24	48 CC	LB3	4	3.645	1,2,3	
91.36	52 TE	LB10	5	2.847	1,2		94.67	49 IN	LY4	5	2.926	1,2	
91.49	14 SI	KA1	2	7.125	1,2,3		94.72	37 RB	LA1	2	7.318	1,2,3	
91.52	51 SB	LY1	5	2.851	1,2,3		94.84	37 RB	LA2	2	7.325	1,2,3	
91.54	14 SI	KA2	2	7.128	1,2,3		94.86	43 TC	LB1	3	4.884	1	
91.98	56 BA	LN	5	2.862	1,2,3		94.92	51 SB	LY5	5	2.932	1,2	
92.02	52 TE	LB7	5	2.863	1,2		95.14	53 I	LB1	5	2.937	1,2,3	
92.48	53 I	LB3	5	2.874	1,2,3		95.37	39 Y	LL	2	7.356	1,2,3	
92.73	50 SN	LA1	4	3.600	1,2,3		95.50	48 CC	LB4	4	3.682	1,2,3	
92.82	52 TE	LB2	5	2.862	1,2,3		95.61	45 RH	LY3	4	3.685	1,2	
92.90	47 AG	LB9	4	3.605	1,2		95.61	45 RH	LY2	4	3.685	1,2,3	
93.00	51 SB	LN	4	3.608	1,2,3		95.83	45 RH	LN	3	4.922	1,2,3	
93.03	50 SN	LA2	4	3.609	1,2,3		95.86	42 MC	LB2	3	4.923	1,2,3	
93.10	47 AG	LB10	4	3.611	1,2		96.23	47 AG	LB2	4	3.703	1,2,3	

MICA CRYSTAL, D# 9.94E ANGSTROMS							96.60 TO 101.92						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
96.60	52 TE	LB6	5	2.971	1,2,3		98.81	41 NB	LY1	3	5.036	1,2,3	
96.61	46 PD	LL	3	4.952	1,2,3		98.88	51 SB	LB2	5	3.023	1,2,3	
96.63	4J ZR	LY3	3	4.953	1,2		98.95	49 IN	LA2	4	3.781	1,2,3	
96.63	4J ZR	LY2	3	4.953	1,2,3		98.96	54 XE	LA2	5	3.025	1	
96.64	51 SB	LB9	5	2.972	1,2		99.06	36 KR	LB1	2	7.568	1	
96.71	52 TE	LL	4	3.717	1,2,3		99.16	42 MC	LB4	3	5.049	1,2,3	
96.95	51 SB	LB10	5	2.979	1,2		99.16	42 MC	LB6	3	5.049	1,2,3	
96.95	46 PD	LY1	4	3.724	1,2,3		99.23	21 SC	KA1	5	3.031	1,2,3	
96.99	49 IN	LY2	5	2.980	1,2,3		99.24	50 SN	LN	4	3.789	1,2,3	
96.99	49 IN	LY3	5	2.980	1,2		99.35	46 PD	LB9	4	3.792	1,2	
97.44	48 CD	LB1	4	3.738	1,2,3		99.41	21 SC	KA2	5	3.035	1,2,3	
97.55	19 K	KA1	4	3.741	1,2,3		99.60	46 PD	LB10	4	3.799	1,2	
97.56	55 CS	LN	5	2.993	1,2,3		99.90	52 TE	LB4	5	3.046	1,2,3	
97.69	19 K	KA2	4	3.745	1,2,3		99.92	47 AG	LB6	4	3.808	1,2,3	
97.91	50 SN	LY1	5	3.001	1,2,3		100.42	46 PD	LY5	4	3.822	1,2	
98.08	51 SB	LB7	5	3.005	1		100.82	47 AG	LB3	4	3.833	1,2,3	
98.13	57 LA	LL	5	3.006	1,2,3		100.91	43 TC	LA1	3	5.114	1	
98.16	38 SR	LN	2	7.517	1,2,3		101.02	83 BI	MA1	3	5.118	1,2	
98.20	42 MO	LB3	3	5.013	1,2,3		101.15	43 TC	LA2	3	5.123	1	
98.26	52 TE	LB3	5	3.009	1,2,3		101.16	20 CA	KB5	5	3.074	1,2	
98.52	54 XE	LA1	5	3.015	1		101.30	52 TE	LB1	5	3.077	1,2,3	
98.55	72 HF	MA1	2	7.539	1,2		101.31	83 BI	MA2	3	5.129	1,2	
98.64	49 IN	LA1	4	3.772	1,3		101.66	50 SN	LY5	5	3.085	1,2	
98.67	72 HF	MA2	2	7.546	1,2		101.89	20 CA	KB1	5	3.090	1,2,3	
98.71	16 S	KB1	3	5.032	1,2,3		101.92	41 NB	LY5	3	5.151	1,2	

MICA CRYSTAL, D# 9.94E ANGSTROMS						102.16 TO 108.43					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
102.16	47 AG	LB4	4	3.870	1,2,3	104.88	45 RH	LY1	4	3.943	1,2,3
102.63	42 MO	LB1	3	5.177	1,2,3	104.91	50 SN	LB7	5	3.155	1,2
102.66	13 A	KB1	4	3.884	1	105.05	53 I	LA2	5	3.158	1,2,3
102.83	51 SB	LL	4	3.868	1,2,3	105.24	49 IN	LY1	5	3.162	1,2,3
103.04	50 SN	LB9	5	3.115	1,2	105.37	48 CC	LA1	4	3.956	1,2,3
103.04	51 SB	LB6	5	3.115	1,2,3	105.61	39 Y	LY2	3	5.283	1,2,3
103.16	44 RU	LY2	4	3.897	1,2,3	105.61	39 Y	LY3	3	5.283	2
103.16	44 RU	LY3	4	3.897	1,2	105.67	82 PE	MA1	3	5.265	1,2
103.32	50 SN	LB10	5	3.121	1,2	105.72	48 CC	LA2	4	3.965	1,2,3
103.41	44 RU	LN	3	5.255	1,2,3	105.86	50 SN	LB2	5	3.175	1,2,3
103.47	35 KR	LA2	2	7.811	1	106.07	82 PE	MA2	3	5.299	1,2
103.47	35 KR	LA1	2	7.811	1	106.39	41 NE	LB3	3	5.310	1,2,3
103.61	45 PD	LB2	4	3.909	1,2,3	106.41	49 IN	LN	4	3.983	1,2,3
103.64	92 U	MA1	4	3.910	1,2	106.58	51 SB	LB4	5	3.190	1,2,3
103.74	45 RH	LL	3	5.217	1,2,3	106.69	13 AL	KB1	2	7.981	1,2,3
103.94	33 SR	LL	2	7.856	1,2,3	107.40	41 NE	LB4	3	5.345	1,2,3
103.97	55 BA	LL	5	3.135	1,2,3	107.68	46 PC	LB6	4	4.016	1,2,3
104.02	71 LU	MA1	2	7.840	1,2	107.86	37 RE	LN	2	8.041	1,2,3
104.06	43 CD	LY3	5	3.137	1,2	107.87	41 NE	LB6	3	5.361	1,2,3
104.11	43 CD	LY2	5	3.138	1,2,3	107.92	91 PA	MA1	4	4.022	1,2
104.17	92 U	MA2	4	3.924	1,2	108.19	16 S	KA1	3	5.372	1,2,3
104.33	41 NB	LB2	3	5.238	1,2,3	108.28	16 S	KA2	3	5.375	1,2,3
104.54	47 AG	LB1	4	3.934	1,2,3	108.33	51 SB	LB1	5	3.226	1,2,3
104.56	55 I	LA1	5	3.148	1,2,3	108.39	46 PC	LB3	4	4.034	1,2,3
104.77	51 SB	LB3	5	3.152	1,2,3	108.43	91 PA	MA2	4	4.035	1,2

MICA CRYSTAL, D# 9.94E ANGSTROMS						108.55 TO 112.37					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
108.55	40 ZR	LY1	3	5.384	1,2,3						
108.82	45 RH	LY5	4	4.045	1,2						
109.20	42 MO	LA1	3	5.406	1,2,3						
109.44	42 MO	LA2	3	5.414	1,2,3						
109.47	49 IN	LY5	5	3.249	1,2						
109.52	35 BR	LB1	2	8.125	2,3						
109.78	70 YB	MA1	2	8.138	1,2						
109.86	50 SN	LL	4	4.071	1,2,3						
109.86	46 PD	LB4	4	4.071	1,2,3						
110.10	70 YB	MA2	2	8.154	1,2						
110.37	55 CS	LL	5	3.267	1,2,3						
110.42	49 IN	LB9	5	3.268	1,2						
110.47	50 SN	LB6	5	3.269	1,2,3						
110.73	49 IN	LB10	5	3.274	1,2						
110.86	81 TL	MA1	3	5.461	1,2						
111.03	53 I	LN	5	3.280	1,2,3						
111.19	81 TL	MA2	3	5.472	1,2						
111.49	52 TE	LA1	5	3.289	1,2,3						
111.81	41 NB	LB1	3	5.492	1,2,3						
111.95	52 TE	LA2	5	3.298	1,2,3						
111.96	40 ZR	LY5	3	5.497	1,2						
112.15	44 RU	LL	3	5.503	1,2,3						
112.30	45 RH	LB2	4	4.131	1,2,3						
112.37	47 AG	LY2	5	3.306	1,3						
112.37	47 AG	LY3	5	3.306	1,2						

MICA CRYSTAL, D# 9.94E ANGSTROMS						112.59 TO 122.52					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
112.59	9J TH	MA1	4	4.138	1,2	116.65	38 SR	LY3	3	5.644	1,2
112.93	46 PD	LB1	4	4.146	1,2,3	117.04	45 RH	LB6	4	4.242	1,2,3
113.14	9J TH	MA2	4	4.151	1,2	117.37	80 HG	MA1	3	5.666	1,2
113.26	47 AG	LA1	4	4.154	1,2,3	117.37	80 HG	MA2	3	5.666	1,2
113.64	47 AG	LA2	4	4.163	1,2,3	117.44	40 ZR	LB4	3	5.668	1,2,3
113.89	13 AL	KA1	2	8.338	1,2,3	117.48	45 RH	LB3	4	4.252	1,2,3
113.93	48 CC	LY1	5	3.336	1,2,3	118.24	49 IN	LL	4	4.269	1,2,3
113.93	13 AL	KA2	2	8.340	1,2,3	118.80	48 CC	LY5	5	3.425	1,2
114.24	49 IN	LB2	5	3.338	1,2,3	118.85	40 ZR	LB6	3	5.710	1,2,3
114.20	50 SN	LB4	5	3.343	1,2,3	119.06	44 RU	LY5	4	4.287	1,2
114.42	37 RB	LL	2	8.363	1,2,3	119.08	48 CC	LB9	5	3.430	1,2
114.44	44 RU	LY1	4	4.182	1,2,3	119.15	45 RH	LB4	4	4.289	1,2,3
114.68	35 BR	LA2	2	8.375	1,2	119.33	41 NE	LA1	3	5.724	1,2,3
114.68	35 BR	LA1	2	8.375	1,2,3	119.42	49 IN	LB6	5	3.436	1,2,3
114.76	40 ZR	LB2	3	5.586	2,3	119.48	48 CC	LB10	5	3.437	1,2
114.87	18 A	KA1	4	4.192	1,2,3	119.54	52 TE	LN	5	3.438	1,2,3
114.91	48 CC	LN	4	4.193	1,3	119.59	51 SB	LA1	5	3.439	1,2,3
115.00	18 A	KA2	4	4.195	1,2,3	119.60	41 NE	LA2	3	5.732	2,3
115.11	2J CA	KA1	5	3.358	1,2,3	119.71	19 K	KB5	5	3.441	1,2
115.32	2J CA	KA2	5	3.362	1,2,3	120.11	51 SB	LA2	5	3.448	1,2,3
116.29	40 ZR	LB3	3	5.633	1,2,3	120.46	19 K	KB1	5	3.454	1,2,3
116.51	69 TM	MA1	2	8.460	1,2	121.39	49 IN	LB3	5	3.470	1,2,3
116.51	69 TM	MA2	2	8.460	1,2	122.13	15 P	KB1	3	5.804	1,2,3
116.57	50 SN	LB1	5	3.385	1,2,3	122.52	46 PC	LY2	5	3.489	1,2,3
116.65	38 SR	LY2	3	5.644	1,2,3	122.52	46 PC	LY3	5	3.489	1,2

MICA CRYSTAL, D# 9.94E ANGSTROMS							122.84 TO 133.52						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
122.84	46 PD	LA1	4	4.368	1,2,3		128.88	39 Y	LB3	3	5.983	1,2,3	
122.84	34 SE	LB1	2	8.736	1,2,3		129.30	34 SE	LA1	2	8.990	1,2,3	
123.04	44 RU	LB2	4	4.372	1,2,3		129.30	34 SE	LA2	2	8.990	1,2	
123.13	45 RH	LB1	4	4.374	1,2,3		129.57	50 SN	LA1	5	3.600	1,2,3	
123.23	46 PD	LA2	4	4.376	1,2,3		129.91	47 AG	LB9	5	3.605	1,2	
123.28	40 ZR	LB1	3	5.836	1,2,3		130.11	51 SB	LN	5	3.608	1,2,3	
123.42	42 MO	LY2	4	4.380	1,2,3		130.18	50 SN	LA2	5	3.609	1,2,3	
123.42	42 MO	LY3	4	4.380	1,2		130.30	39 Y	LB4	3	6.018	1,2,3	
123.42	79 AU	MA1	3	5.840	1,2		130.32	47 AG	LB10	5	3.611	1,2	
123.61	49 IN	LB4	5	3.507	1,2,3		130.52	48 CD	LB6	5	3.614	1,2,3	
123.68	42 MO	LN	3	5.847	1,2,3		130.66	47 AG	LY5	5	3.616	1,2	
123.94	79 AU	MA2	3	5.854	1,2		130.82	44 RU	LB4	4	4.523	1,2,3	
124.03	48 CD	LB2	5	3.514	1,2,3		131.42	37 RB	LY3	3	6.045	1,2	
124.55	17 CL	KB1	4	4.403	1,2,3		131.47	37 RB	LY2	3	6.046	1,2,3	
124.59	47 AG	LY1	5	3.523	1,2,3		131.47	78 PT	MA1	3	6.046	1,2	
124.71	39 Y	LY5	3	5.875	1,2		131.93	78 PT	MA2	3	6.057	1,2	
125.30	47 AG	LN	4	4.418	1,2,3		132.48	40 ZR	LA1	3	6.070	1,2,3	
126.41	43 TC	LY1	4	4.440	1		132.70	48 CD	LB3	5	3.645	1,2,3	
126.61	49 IN	LB1	5	3.555	1,2,3		132.83	40 ZR	LA2	3	6.078	1,2,3	
126.73	53 I	LL	5	3.557	1,2,3		133.52	39 Y	LB6	3	6.094	1,2,3	
127.71	33 AS	LB4	2	8.930	1,2								
127.71	33 AS	LB3	2	8.930	1,2,3								
128.50	48 CD	LL	4	4.480	1,2,3								
128.87	44 RU	LB3	4	4.487	1,2,3								
128.87	44 RU	LB6	4	4.487	1,2,3								

MICA CRYSTAL, D# 9.948 ANGSTROMS						135.10 TO 149.80					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
135.10	45 RH	LA1	4	4.597	1,2,3	142.28	47 AG	LL	4	4.707	1,2,3
135.43	48 CD	LB4	5	3.682	1,2,3	142.86	49 IN	LA1	5	3.772	1,3
135.58	45 RH	LA2	4	4.605	1,2,3	143.37	38 SR	LY5	3	6.296	1,2
135.66	45 RH	LY2	5	3.685	1,2,3	143.66	42 MC	LY1	4	4.726	1,2,3
135.66	45 RH	LY3	5	3.685	1,2	143.68	49 IN	LA2	5	3.781	1,2,3
136.04	42 MO	LL	3	6.150	1,2,3	143.81	17 CL	KA1	4	4.728	1,2,3
136.27	15 P	KA2	3	6.155	1,2,3	143.96	17 CL	KA2	4	4.730	1,2,3
136.27	15 P	KA1	3	6.155	1,2,3	144.43	50 SN	LN	5	3.789	1,2,3
136.51	44 RU	LB1	4	4.520	1,2,3	144.71	46 PC	LB9	5	3.792	1,2
136.94	35 BR	LN	2	9.254	1,3	145.38	46 PC	LB10	5	3.799	1,2
137.05	47 AG	LB2	5	3.753	1,2,3	146.26	47 AG	LB6	5	3.808	1,2,3
137.51	43 TC	LB2	4	4.636	1	147.50	38 SR	LB3	3	6.367	1,2,3
138.17	52 TE	LL	5	3.717	1,2,3	147.68	46 PC	LY5	5	3.822	1,2
138.67	41 NB	LY3	4	4.654	1,2	147.81	12 MG	KB1	2	9.558	1,2,3
138.67	41 NB	LY2	4	4.654	1,2,3	148.84	47 AG	LB3	5	3.833	1,2,3
138.74	46 PD	LY1	5	3.724	1,2,3	149.86	35 BR	LL	2	9.583	1,2,3
138.95	41 NB	LN	3	6.211	1,2,3	149.80	38 SR	LB4	3	5.403	1,2,3
139.00	39 Y	LB1	3	6.212	1,2,3						
139.06	46 PD	LN	4	4.660	1,2,3						
139.90	48 CD	LB1	5	3.738	1,2,3						
140.15	19 K	KA1	5	3.741	1,2,3						
140.49	19 K	KA2	5	3.745	1,2,3						
141.49	77 IR	MA1	3	6.251	1,2						
142.23	77 IR	MA2	3	6.275	1,2						
142.28	35 AS	LB1	2	9.414	1,3						