MASTER

Y-1470-D

Chemistry

X-RAY FLUORESCENCE TABLES:
ETHYLENEDIAMINE DEXTROTARTRATE (EDDT) CRYSTAL

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Y-12 PLANT
Oak Ridge, Tennessee

**UNION
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Oak Ridge, Tennessee
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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 an ethylenediamine dextrotartrate (EDDT) 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 ethylenediamine dextrotartrate (EDDT) 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 an ethylenediamine dextrotartrate (EDDT) 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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13 AL		EDDT CRYSTAL, D# 4.404 ANGSTROMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	142.40	142.48	129.95							
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										
14 SI										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	107.98	108.05	100.42							
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										

17 CL		EDDT CRYSTAL, D# 4.404 ANGSTROMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	64.93	64.96	59.98							
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										
18 A										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	56.84	56.88	52.33							
2	144.30	144.56	123.75							
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										

EDDT CRYSTAL, D# 4.404 ANGSTROMS											
19 K	ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
	1	50.27	50.32	46.18				45.99			
	2	116.30	116.50	103.31				102.77			
	3										
	4										
	5										
	1	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
	2										
	3										
	4										
	5										
	1	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
	2										
	3										
	4										
	5										
	1	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
	2										
	3										
	4										
	5										
20 CA	ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
	1	44.82	44.88	41.07				40.85			
	2	99.37	99.53	89.12				88.53			
	3										
	4										
	5										
	1	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
	2										
	3										
	4										
	5										
	1	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
	2										
	3										
	4										
	5										
	1	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
	2										
	3										
	4										
	5										

21	SC	EDDT CRYSTAL, D# 4.404 ANGSTROMS									
	ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
	1	40.25	40.31	36.80				36.58			
	2	86.93	87.13	78.28				77.75			
	3			142.48				140.58			
	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										
22	TI										
	ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
	1	36.36	36.41	33.17		33.17		32.95			
	2	77.21	77.35	69.62		69.62		69.11			
	3	138.77	139.22	117.80		117.80		116.60			
	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										

25	MN	EDDT CRYSTAL, D# 4.404 ANGSTROMS									
	ORDER	KAI	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
	1	27.61	27.67	25.05				24.87			
	2	57.02	57.14	51.40				51.03			
	3	91.44	91.66	81.17				80.50			
	4	145.33	146.04	120.31				118.97			
	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										
26	FE										
	ORDER	KAI	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
	1	25.39	25.45	23.01				22.84			
	2	52.16	52.27	47.03				46.66			
	3	82.51	82.72	73.52				72.88			
	4	123.69	123.53	105.86				104.75			
	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										

29 CU		EDDT CRYSTAL, D# 4.404 ANGSTROMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	20.15	20.19	18.19	18.04	18.20		18.05			
2	40.96	41.05	36.85	36.55	36.88		36.58			
3	63.32	63.46	56.60	56.12	56.65		56.16			
4	88.82	89.04	78.42	77.68	78.49		77.75			
5	122.04	122.44	104.41	103.25	104.51		103.35			
	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										
30 ZN										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	18.75	18.81	16.91	16.76			16.78			
2	38.03	38.14	34.20	33.90			33.93			
3	58.52	58.70	52.35	51.87			51.91			
4	81.34	81.61	72.04	71.34			71.40			
5	109.10	109.55	94.64	93.59			93.68			
	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										

33 AS		EDDT CRYSTAL, D# 4.404 ANGSTROMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	15.35	15.40	13.78	13.63	13.80		13.68			
2	30.98	31.08	27.77	27.45	27.80		27.56			
3	47.22	47.39	42.20	41.70	42.24		41.87			
4	64.56	64.81	57.37	56.66	57.43		56.90			
5	83.76	84.11	73.74	72.77	73.82		73.09			
	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										
34 SE										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	14.41	14.47	12.93	12.78	12.95		12.83			
2	29.06	29.17	26.04	25.71	26.06		25.82			
3	44.22	44.39	39.49	39.00	39.54		39.16			
4	60.24	60.48	53.55	52.85	53.61		53.09			
5	77.70	78.03	68.54	67.60	68.62		67.92			
	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]

37 RB		EDOT CRYSTAL, D# 4.404 ANGSTROMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	12.07	12.12	10.80	10.63	10.80		10.71	112.37	112.53	106.90
2	24.28	24.38	21.70	21.36	21.70		21.51			
3	36.77	36.93	32.80	32.27	32.80		32.52			
4	49.74	49.97	44.23	43.50	44.23		43.84			
5	63.43	63.73	56.15	55.19	56.15		55.63			
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1		100.81	101.48		104.92					86.70
2										
3										
4										
5										
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	86.68		100.14		131.82	143.42				
2										
3										
4										
5										
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										
38 SR										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	11.40	11.45	10.20	10.04	10.20		10.10	102.37	102.50	97.54
2	22.92	23.03	20.48	20.17	20.48		20.27			
3	34.68	34.84	30.93	30.45	30.93		30.61			
4	46.83	47.05	41.66	40.99	41.66		41.21			
5	59.56	59.86	52.78	51.91	52.78		52.20			
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1		92.58	93.26		95.48					79.70
2										
3										
4										
5										
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	79.70		91.25		117.17	125.66				
2										
3										
4										
5										
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

[illegible]

41	NB	EDDT CRYSTAL, D# 4.404 ANGSTROMS									
	ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
	1	9.72	9.77	8.67	8.52	8.67		8.59	61.06	81.20	77.15
	2	19.50	19.61	17.40	17.08	17.40		17.24			
	3	29.44	29.60	26.22	25.74	26.22		25.98			
	4	39.61	39.83	35.21	34.56	35.21		34.88			
	5	50.11	50.40	44.43	43.59	44.43		44.01			
		LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
	1	72.98	74.15	74.72		74.98				69.75	63.79
	2										
	3										
	4										
	5										
		LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
	1	63.79		71.58		89.68	95.45				
	2										
	3										
	4										
	5										
		KB3	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
	1										
	2										
	3										
	4										
	5										
42	MO										
	ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
	1	9.23	9.29	8.23	8.09	8.24	8.07	8.16	75.72	75.86	72.00
	2	18.53	18.63	16.50	16.21	16.53	16.19	16.37			
	3	27.95	28.11	24.86	24.42	24.90	24.38	24.66			
	4	37.57	37.79	33.36	32.76	33.41	32.71	33.09			
	5	47.47	47.75	42.05	41.28	42.12	41.21	41.70			
		LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
	1	67.96	69.38	69.95		69.95				64.90	59.64
	2										
	3										
	4										
	5										
		LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
	1	59.64		66.62		83.19	88.57				
	2										
	3										
	4										
	5										
		KB3	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
	1										
	2										
	3										
	4										
	5										

43 TC		EDDT CRYSTAL, D# 4.404 ANGSTROMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	8.76	8.80	7.84	7.68	7.83	7.68		70.99	71.13	67.35
2	17.58	17.66	15.71	15.40	15.69	15.40				
3	26.50	26.62	23.66	23.19	23.62	23.19				
4	35.59	35.76	31.73	31.08	31.68	31.08				
5	44.92	45.13	39.97	39.14	39.90	39.14				
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	63.52								60.54	
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										
44 RU										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	8.37	8.43	7.45	7.32	7.46		7.39	66.76	66.87	63.27
2	16.79	16.90	14.93	14.66	14.95		14.82			
3	25.30	25.46	22.47	22.07	22.51		22.31			
4	33.96	34.17	30.11	29.57	30.17		29.90			
5	42.82	43.10	37.90	37.21	37.96		37.62			
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	59.52	61.25	61.80		61.25				56.69	52.52
2									143.46	124.47
3										
4										
5										
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	52.52		58.25		72.45	77.33				
2	124.47									
3										
4										
5										
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

45 RH		EDDT CRYSTAL, D# 4.404 ANGSTROMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	7.98	8.05	7.11	6.96	7.11		7.04	62.92	63.04	59.55
2	16.00	16.13	14.24	13.96	14.24		14.11			
3	24.10	24.30	21.44	21.00	21.44		21.24			
4	32.33	32.60	28.71	28.12	28.71		28.44			
5	40.73	41.07	36.11	35.36	36.11		35.77			
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	55.94	57.73	58.28		57.58				53.19	49.46
2	139.44	149.81			148.82				127.10	113.59
3										
4										
5										
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	49.46		54.68		67.95	72.64				
2	113.59		133.41							
3										
4										
5										
	KB0	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	7.62	7.68	6.78	6.64	6.78		6.73	59.45	59.58	56.16
2	15.27	15.40	13.59	13.30	13.59		13.48			140.58
3	22.99	23.19	20.44	20.01	20.44		20.28			
4	30.81	31.08	27.37	26.78	27.37		27.16			
5	38.79	39.14	34.41	33.66	34.41		34.13			
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	52.69	54.52	55.06		54.25		51.00	51.10	50.02	46.67
2	125.15	132.69	135.15		131.54		118.87	119.23	115.47	104.79
3										
4										
5										
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	46.67		51.43		63.88	68.42				
2	104.79		120.42							
3										
4										
5										
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

[illegible]

49 IN		EDDT CRYSTAL, D# 4.404 ANGSTROMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	6.66	6.73	5.92	5.79	5.92		5.87	50.71	50.34	47.61
2	13.35	13.48	11.86	11.60	11.86		11.76	117.85	118.31	107.65
3	20.09	20.28	17.83	17.44	17.83		17.67			
4	26.89	27.16	23.85	23.32	23.85		23.64			
5	33.79	34.13	29.94	29.26	29.94		29.67			
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	44.54	46.40	46.93		45.92		43.56	43.64	42.08	39.55
2	98.57	103.98	105.56		102.56		95.81	96.05	91.78	85.17
3										
4										
5										
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	39.55	38.80	43.29		53.77	57.98				
2	85.17	83.27	95.08		129.49					
3										
4										
5										
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										
50 SN										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	6.39	6.44	5.66	5.54	5.67		5.62	48.25	48.38	45.20
2	12.80	12.91	11.34	11.10	11.36		11.26	109.66	110.07	100.46
3	19.25	19.41	17.04	16.69	17.08		16.92			
4	25.77	25.98	22.79	22.31	22.84		22.63			
5	32.37	32.64	28.59	27.99	28.66		28.39			
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	42.26	44.09	44.61		43.57	41.98	41.42	41.51	39.84	37.52
2	92.26	97.30	98.77		95.85	91.52	90.03	90.25	85.91	80.07
3										149.56
4										
5										
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1		36.76	41.01		50.96	55.06				
2		78.18	88.93		118.71	135.15				
3		142.11								
4										
5										
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

53 I		EDDT CRYSTAL, D# 4.404 ANGSTROMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	5.64	5.70	5.00	4.88	5.01			41.88	42.02	38.96
2	11.28	11.42	10.00	9.77	10.03			91.25	91.63	83.66
3	16.96	17.16	15.03	14.68	15.07					
4	22.68	22.95	20.09	19.61	20.14					
5	28.46	28.79	25.18	24.58	25.25					
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	36.39	38.09	38.61		37.58	36.11	35.88	35.98	34.09	32.26
2	77.28	81.47	82.79		80.21	76.62	76.05	76.29	71.79	67.51
3	138.99					136.82	135.05	135.77	123.15	112.91
4										
5										
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	32.26	31.50	35.11		43.73	47.64				
2	67.51	65.76	74.22		96.28	107.74				
3	112.91	109.65	129.64							
4										
5										
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										
54 XE										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	5.41	5.47	4.79	4.68				40.03	40.17	37.11
2	10.84	10.94	9.59	9.38				86.41	86.77	79.06
3	16.29	16.45	14.40	14.09						145.38
4	21.78	21.99	19.24	18.82						
5	27.32	27.59	24.12	23.58						
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	34.69								32.46	
2	73.21								67.98	
3	126.87								113.98	
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										

57 LA EDDY CRYSTAL, D# 4.404 ANGSTROMS										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	4.83	4.88	4.27	4.16	4.28		4.24	35.22	35.35	32.41
2	9.56	9.77	8.54	8.33	8.57		8.49	74.48	74.77	67.85
3	14.52	14.68	12.83	12.51	12.87		12.75	130.38	131.22	113.69
4	19.40	19.61	17.13	16.71	17.19		17.03			
5	24.52	24.58	21.46	20.93	21.53		21.33			
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	30.51	31.76	32.29		31.34	29.94	30.03	30.14	28.15	26.86
2	63.06	66.35	67.57		65.39	62.21	62.42	62.66	58.21	55.37
3	103.33	110.34	113.05		108.25	101.59	102.02	102.52	93.70	88.35
4										136.61
5										
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	26.80	26.02	29.00		36.25	39.91				
2	55.22	53.52	60.09		76.95	86.09				
3	88.08	84.97	97.36		137.89					
4	135.91	128.46								
5										
	KB3	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	4.65	4.71	4.11	4.01	4.11			33.81	33.93	31.03
2	9.30	9.43	8.23	8.02	8.23			71.11	71.40	64.68
3	13.97	14.16	12.36	12.04	12.36			121.45	122.17	106.73
4	18.66	18.92	16.50	16.08	16.50					
5	23.38	23.72	20.67	20.14	20.67					
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	29.05	30.42	30.93		30.02	28.66	28.77	28.86	26.89	25.71
2	60.21	63.30	64.47		62.39	59.34	59.58	59.79	55.42	52.85
3	97.59	103.64	106.27		101.96	95.89	96.36	96.77	88.46	83.76
4									136.89	125.77
5										
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	25.55	24.90	27.72		34.61	38.34				
2	52.71	51.09	57.25		73.01	82.09				
3	83.50	80.60	91.89		126.35					
4	125.20	119.17	146.76							
5										
	KB3	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

59	PR	EDDT CRYSTAL, D# 4.404 ANGSTROMS									
	ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
	1	4.48	4.54	3.96	3.86	3.97			32.48	32.61	29.71
	2	8.96	9.09	7.92	7.73	7.94			68.01	68.32	61.69
	3	13.46	13.65	11.89	11.61	11.93			114.05	114.77	100.54
	4	17.98	18.24	15.87	15.50	15.92					
	5	22.52	22.85	19.87	19.41	19.94					
		LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
	1	27.84	29.16	29.67		28.79	27.47	27.59	27.68	25.73	24.64
	2	57.52	60.45	61.60		59.64	56.69	56.96	57.17	52.88	50.51
	3	92.40	98.07	100.36		96.48	90.83	91.33	91.72	83.81	79.58
	4	148.44					143.46	144.99	146.22	125.89	117.15
	5										
		LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
	1	24.57	23.84	26.52		33.14	36.85				
	2	50.37	48.79	54.60		69.55	78.42				
	3	79.33	76.57	86.95		117.65	142.97				
	4	116.65	111.39	133.08							
	5										
		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	4.32	4.37	3.81	3.72	3.83			31.22	31.35	28.48
	2	8.65	8.75	7.63	7.45	7.66			65.12	65.42	58.95
	3	12.99	13.14	11.45	11.18	11.49			107.65	108.31	95.14
	4	17.34	17.55	15.29	14.93	15.35					
	5	21.73	21.99	19.15	18.69	19.21					
		LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
	1	26.73	27.94	28.48		27.64	26.37	26.46	26.56	24.62	23.60
	2	55.07	57.73	58.95		57.08	54.28	54.49	54.69	50.48	48.28
	3	87.81	92.79	95.14		91.55	86.36	86.73	87.11	79.53	75.67
	4	135.22	149.81			145.68	131.67	132.56	133.48	117.05	109.75
	5										
		LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
	1	23.53	22.84	25.38		31.75	35.37				
	2	48.13	46.66	52.13		66.32	74.84				
	3	75.43	72.88	82.46		110.27	131.41				
	4	109.30	104.75	122.98							
	5										
		KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
	1										
	2										
	3										
	4										
	5										

61 PM EDDT CRYSTAL, D# 4.404 ANGSTROMS										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	4.18	4.23	3.67	3.59	3.68			30.04	30.17	27.33
2	8.36	8.46	7.34	7.19	7.37			62.45	62.72	56.40
3	12.55	12.71	11.02	10.79	11.06			102.08	102.64	90.27
4	16.76	16.97	14.72	14.40	14.77					141.84
5	21.00	21.26	18.42	18.03	18.49					
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	25.67								23.80	
2	52.77								48.71	
3	83.60								76.42	
4	125.43								111.12	
5										
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1										
2										
3										
4										
5										
	KB0	LB15	LB17	LB19	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										
62 SM										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	4.02	4.09	3.55	3.46	3.57			28.91	29.06	26.22
2	8.05	8.18	7.11	6.93	7.13			59.91	60.24	53.96
3	12.08	12.28	10.67	10.40	10.71			97.00	97.65	85.77
4	16.13	16.40	14.24	13.88	14.30					130.29
5	20.20	20.54	17.83	17.37	17.90					
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	24.67	25.74	26.25	23.31	25.53	24.33	24.40	24.50	22.61	21.71
2	50.60	52.91	54.02	47.65	52.45	49.85	49.99	50.22	46.18	44.26
3	79.73	83.87	85.87	74.59	83.03	78.42	78.67	79.07	72.06	68.81
4	117.45	126.00	130.53	107.78	124.19	114.89	115.37	116.16	103.31	97.77
5										140.70
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	21.66	21.01	23.31		29.17	32.73				
2	44.15	42.77	47.65		60.48	68.61				
3	68.62	66.32	74.59		98.13	115.42				
4	97.46	93.66	107.78							
5	139.93	131.47								
	KB0	LB15	LB17	LB19	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

65 TB		EDDT CRYSTAL, D# 4.404 ANGSTROMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	3.63	3.68	3.20	3.12	3.20			25.91	26.06	23.27
2	7.26	7.37	6.40	6.25	6.40			53.29	53.61	47.57
3	10.91	11.06	9.61	9.38	9.61			84.55	85.13	74.44
4	14.56	14.77	12.83	12.51	12.83			127.51	128.82	107.52
5	18.23	18.49	16.05	15.66	16.05					
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	22.02	22.87	23.38	20.63	22.80	21.71		21.82	20.01	19.31
2	44.91	46.71	47.82	41.97	46.57	44.26		44.48	40.66	39.19
3	69.90	72.93	74.89	64.98	72.74	68.81		69.19	62.81	60.41
4	99.61	104.92	108.31	91.48	104.49	97.77		98.41	88.03	84.25
5	145.42			127.07		140.70		142.28	120.58	113.95
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	19.23	18.65	20.63		25.89	29.39				
2	39.03	37.81	41.97		53.23	60.96				
3	60.84	58.16	64.98		84.44	99.09				
4	83.83	80.79	91.48		127.28					
5	113.24	108.23	127.07							
	KB0	LB15	LB17	LB17	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										
66 DY										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	3.51	3.57	3.08	3.02	3.10			25.03	25.18	22.39
2	7.03	7.13	6.17	6.04	6.20			51.38	51.69	45.70
3	10.55	10.71	9.26	9.06	9.30			81.11	81.68	71.24
4	14.09	14.30	12.36	12.10	12.41			120.21	121.37	101.89
5	17.63	17.90	15.46	15.14	15.53					
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	21.24	22.00	22.52		22.00	20.92	20.93	21.02	19.25	18.59
2	43.25	44.88	45.98		44.88	42.58	42.61	42.80	39.08	37.70
3	67.12	69.86	71.72		69.86	66.00	66.04	66.37	60.23	57.98
4	94.76	99.53	102.72		99.53	93.13	93.21	93.74	83.97	80.52
5	134.24	145.20			145.20	130.38	130.53	131.63	113.48	107.76
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	18.52	17.95	19.85		24.87	28.36				
2	37.54	36.36	40.33		51.03	58.68				
3	57.71	55.81	62.27		80.50	94.62				
4	80.11	77.21	87.16		118.97					
5	107.10	102.52	119.02							
	KB0	LB15	LB17	LB17	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

67 HO		EDDT CRYSTAL, D# 4.404 ANGSTROMS									
ORDER	KAI	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1	
1	3.40	3.46	2.99	2.91				24.18	24.33	21.55	
2	6.80	6.93	5.99	5.83				49.54	49.85	43.92	
3	10.20	10.40	8.99	8.75				77.87	78.42	68.25	
4	13.61	13.88	11.99	11.68				113.83	114.89	96.83	
5	17.04	17.37	15.00	14.61						138.44	
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2	
1	20.50	21.18	21.71		21.22			20.26	18.52	17.90	
2	41.69	43.14	44.26		43.22			41.19	37.54	36.25	
3	64.51	66.93	68.81		67.07			63.69	57.71	55.63	
4	90.73	94.66	97.77		94.89			89.41	80.11	76.95	
5	125.63	133.58	140.70		134.37			123.12	107.10	102.10	
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY	
1	17.82	17.26	19.11		23.93	27.40					
2	36.08	34.94	38.78		48.99	56.54					
3	55.37	53.52	59.73		76.92	90.55					
4	76.55	73.79	83.20		112.04	142.64					
5	101.48	97.26	112.18								
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT	
1											
2											
3											
4											
5											
68 ER											
ORDER	KAI	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1	
1	3.28	3.34	2.90	2.82	2.90			23.37	23.53	20.76	
2	6.56	6.69	5.80	5.65	5.80			47.79	48.13	42.24	
3	9.85	10.04	8.71	8.48	8.71			74.84	75.43	65.44	
4	13.14	13.40	11.62	11.31	11.62			108.23	109.30	92.23	
5	16.45	16.78	14.55	14.15	14.55					128.55	
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2	
1	19.80	20.42	20.95		20.50	19.53	19.41	19.53	17.82	17.25	
2	40.21	41.52	42.63		41.69	39.66	39.41	39.66	36.08	34.91	
3	62.08	64.24	66.09		64.51	61.18	60.77	61.18	55.37	53.48	
4	86.87	90.29	93.28		90.73	85.45	84.81	85.45	76.55	73.73	
5	118.51	124.78	130.69		125.63	116.01	114.91	116.01	101.48	97.16	
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY	
1	17.17	16.66	18.37		23.00	26.50					
2	34.75	33.68	37.24		47.00	54.57					
3	53.22	51.52	57.22		73.47	86.89					
4	73.34	70.83	79.36		105.78	132.95					
5	96.57	92.83	105.91								
	KB0	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT	
1											
2											
3											
4											
5											

69 TM		EDDT CRYSTAL, D# 4.404 ANGSTROMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	3.17	3.24	2.80	2.73	2.81			22.60	22.75	20.01
2	6.35	6.48	5.60	5.47	5.62			46.15	46.46	40.66
3	9.53	9.73	8.40	8.20	8.44			72.01	72.54	62.81
4	12.72	12.99	11.21	10.94	11.26			103.23	104.15	88.03
5	15.92	16.25	14.02	13.69	14.09					120.58
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	19.12	19.68	20.19		19.81			18.33	17.17	16.63
2	38.80	39.97	41.05		40.24			38.20	34.75	33.63
3	59.77	61.67	63.46		62.13			58.79	53.22	51.43
4	83.27	86.23	89.04		86.95			81.75	73.34	70.70
5	112.30	117.37	122.44		118.64			109.77	96.57	92.64
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	16.55	16.04	17.70	16.84	22.20	25.65	147.68	147.68		
2	33.47	32.41	35.84	34.07	45.30	52.71				
3	51.17	49.49	54.97	52.13	70.57	83.50				
4	70.32	67.85	75.95	71.72	100.75	125.20				
5	92.08	88.48	100.56	94.16	148.63					
	KBJ	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	3.38	3.14	2.72	2.65	2.72			21.89	22.03	19.29
2	6.17	6.27	5.44	5.31	5.44			44.62	44.93	39.16
3	9.26	9.42	8.16	7.97	8.16			69.43	69.95	60.36
4	12.36	12.57	10.89	10.63	10.89			98.81	99.69	84.18
5	15.46	15.73	13.63	13.30	13.63			143.29	145.64	113.83
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	18.49	18.98	19.49	18.12	19.16	18.23	18.08	18.17	16.55	16.04
2	37.48	38.50	39.58	36.71	38.89	36.93	36.63	36.82	33.47	32.41
3	57.63	59.28	61.04	56.38	59.91	56.74	56.25	56.56	51.17	49.49
4	79.97	82.51	85.24	78.08	83.48	78.62	77.88	78.35	70.32	67.85
5	106.88	111.03	115.64	103.88	112.65	104.73	103.56	104.30	92.08	88.48
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	15.95	15.46	17.05	16.23	21.41	24.83	135.02	135.56		
2	32.22	31.22	34.50	32.79	43.61	50.94				
3	49.19	47.61	52.82	50.09	67.73	80.35				
4	67.41	65.12	72.75	68.73	95.97	118.66				
5	87.85	84.55	95.70	89.76	136.47					
	KBJ	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

73 TA		EDDT CRYSTAL, D# 4.404 ANGSTROMS									
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1	
1	2.80	2.86	2.47	2.41	2.49	2.39	2.46	19.90	20.05	17.33	
2	5.63	5.73	4.95	4.82	4.97	4.79	4.92	40.44	40.74	35.07	
3	8.40	8.59	7.42	7.23	7.46	7.19	7.38	62.45	62.95	53.74	
4	11.21	11.47	9.90	9.64	9.95	9.59	9.85	87.45	88.24	74.12	
5	14.02	14.35	12.38	12.06	12.45	11.99	12.32	119.53	120.97	97.75	
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2	
1	16.76	17.07	17.58	16.38	17.38	16.50	16.26	16.37	14.85	14.41	
2	33.90	34.53	35.59	33.11	35.18	33.36	32.87	33.09	29.95	29.06	
3	51.87	52.87	54.57	50.61	53.92	51.00	50.22	50.57	45.61	44.22	
4	71.34	72.82	75.36	69.49	74.38	70.06	68.92	69.43	62.24	60.24	
5	93.59	95.79	99.65	90.86	98.15	91.70	90.03	90.77	80.48	77.70	
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY	
1	14.34	13.89	15.31	14.53	19.23	22.63	110.82	110.98			
2	28.90	27.99	30.89	29.30	39.03	46.20					
3	43.96	42.54	47.10	44.60	60.14	72.11					
4	59.88	57.85	64.38	60.78	83.83	103.39					
5	77.20	74.39	83.50	78.45	113.24						
	KBJ	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT	
1											
2											
3											
4											
5											
74 W											
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1	
1	2.72	2.78	2.39	2.33	2.41	2.33	2.38	19.29	19.44	16.74	
2	5.44	5.57	4.79	4.66	4.82	4.66	4.76	39.16	39.47	33.85	
3	8.16	8.36	7.19	6.99	7.23	6.99	7.15	60.36	60.86	51.78	
4	10.39	11.15	9.59	9.33	9.64	9.33	9.53	84.18	84.95	71.21	
5	13.53	13.96	11.99	11.66	12.06	11.66	11.93	113.83	115.16	93.40	
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2	
1	16.25	16.49	17.00	15.86	16.84	15.98	15.71	15.82	14.34	13.93	
2	32.94	33.33	34.39	32.03	34.07	32.27	31.73	31.95	28.90	28.07	
3	50.18	50.96	52.65	48.89	52.13	49.28	48.42	48.76	43.96	42.66	
4	68.86	70.00	72.50	66.98	71.72	67.54	66.29	66.79	59.88	58.03	
5	89.94	91.61	95.31	87.21	94.16	88.03	86.23	86.95	77.20	74.64	
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY	
1	13.85	13.40	14.77	14.01	18.57	21.96	104.90	105.05			
2	27.91	27.00	29.79	28.23	37.65	44.79					
3	42.41	40.99	45.36	42.91	57.89	69.71					
4	57.67	55.66	61.87	58.38	80.38	99.29					
5	74.15	71.40	79.97	75.13	107.54	144.56					
	KBJ	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT	
1											
2											
3											
4											
5											

75 RE

EDDT CRYSTAL, D# 4.404 ANGSTROMS

ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	2.64	2.71	2.33	2.26	2.33			18.73	18.87	16.17
2	5.28	5.41	4.66	4.53	4.66			37.98	38.28	32.68
3	7.93	8.13	6.99	6.80	6.99			58.43	58.92	49.92
4	10.58	10.84	9.33	9.06	9.33			81.20	81.96	68.48
5	13.23	13.56	11.66	11.34	11.66			108.87	110.11	89.39
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	15.75	15.92	16.44	15.36	16.33	15.48	15.20	15.29	13.84	13.46
2	31.81	32.16	33.22	31.00	33.01	31.25	30.68	30.87	27.88	27.10
3	48.55	49.11	50.78	47.27	50.44	47.65	46.76	47.05	42.37	41.16
4	66.48	67.29	69.75	64.62	69.24	65.18	63.88	64.31	57.61	55.90
5	86.50	87.66	91.24	83.85	90.49	84.64	82.80	83.41	74.07	71.72
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	13.38	12.93	14.27	13.52	17.94	21.33	95.66			
2	26.94	26.04	28.77	27.24	36.33	43.45				
3	43.91	39.49	43.75	41.37	55.76	67.45				
4	55.54	53.55	59.58	56.19	77.15	95.50				
5	71.24	68.54	76.78	72.13	102.41	135.43				
	KB3	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	2.56	2.63	2.26	2.20	2.26			18.17	18.32	15.62
2	5.13	5.26	4.53	4.40	4.53			36.82	37.13	31.54
3	7.69	7.89	6.80	6.60	6.80			56.56	57.05	48.12
4	10.27	10.53	9.06	8.80	9.06			78.35	79.09	65.86
5	12.84	13.17	11.34	11.01	11.34			104.30	105.47	85.61
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	15.27	15.40	15.90	14.87	15.83	14.99	14.69	14.78	13.37	13.01
2	30.81	31.08	32.11	30.00	31.98	30.25	29.63	29.82	26.92	26.20
3	46.97	47.39	49.02	45.70	48.81	46.08	45.10	45.40	40.87	39.74
4	64.19	64.81	67.16	62.36	66.85	62.91	61.51	61.93	55.48	53.90
5	83.24	84.11	87.48	80.65	87.04	81.42	79.46	80.06	71.16	69.02
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	12.93	12.50	13.78	13.05	17.34	20.73	94.92	94.92		
2	26.04	25.15	27.77	26.28	35.10	42.19				
3	39.49	38.13	42.20	39.87	53.78	65.35				
4	53.55	51.64	57.37	54.08	74.18	92.08				
5	68.54	65.97	73.74	69.25	97.85	128.25				
	KB3	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

77 IR EDDT CRYSTAL, D# 4.404 ANGSTROMS										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	2.49	2.55	2.20	2.13	2.20	2.12	2.17	17.65	17.79	15.11
2	4.97	5.10	4.40	4.27	4.40	4.24	4.35	35.73	36.03	30.49
3	7.46	7.66	6.60	6.40	6.60	6.37	6.52	54.79	55.28	46.46
4	9.95	10.21	8.80	8.54	8.80	8.49	8.70	75.69	76.42	63.46
5	12.45	12.78	11.01	10.68	11.01	10.62	10.88	100.16	101.28	82.20
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	14.81	14.89	15.40	14.43	15.37	14.55	14.22	14.31	12.92	12.58
2	29.87	30.03	31.08	29.09	31.03	29.33	28.66	28.85	26.01	25.31
3	45.43	45.74	47.39	44.26	47.31	44.64	43.59	43.88	39.45	38.38
4	62.05	62.42	64.81	60.30	64.68	60.84	59.34	59.76	53.49	51.98
5	80.23	80.74	84.11	77.78	83.94	78.54	76.45	77.03	68.47	66.43
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	12.53	12.08	13.33	12.61	16.76	20.15	90.61	90.86		
2	25.15	24.30	26.84	25.37	33.90	40.96				
3	38.13	36.81	40.74	38.46	51.87	63.32				
4	51.64	49.79	55.31	52.10	71.34	88.82				
5	65.97	63.50	70.92	66.59	93.59	122.04				
	KB0	LB15	LB17	LBPT	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										
78 PT										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	2.42	2.47	2.13	2.07	2.13	2.07	2.12	17.15	17.29	14.61
2	4.84	4.95	4.27	4.14	4.27	4.14	4.24	34.69	34.99	29.47
3	7.26	7.42	6.40	6.21	6.40	6.21	6.37	53.13	53.61	44.85
4	9.69	9.90	8.54	8.28	8.54	8.28	8.49	73.21	73.92	61.15
5	12.12	12.38	10.68	10.36	10.68	10.36	10.62	96.38	97.46	78.96
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	14.37	14.40	14.90	13.98	14.93	14.11	13.75	13.85	12.49	12.17
2	28.98	29.04	30.06	28.18	30.11	28.44	27.69	27.91	25.13	24.49
3	44.09	44.17	45.78	42.83	45.86	43.25	42.08	42.41	38.09	37.10
4	60.06	60.18	62.48	58.26	62.60	58.86	57.20	57.67	51.58	50.20
5	77.45	77.61	80.82	74.97	80.99	75.79	73.50	74.15	65.89	64.04
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	12.10	11.69	12.88	12.17	16.23	19.60	86.70	86.89		
2	24.33	23.50	25.93	24.49	32.79	39.80				
3	36.85	35.53	39.33	37.10	50.09	61.40				
4	49.85	48.03	53.32	50.20	68.73	85.80				
5	63.58	61.22	68.23	64.04	89.76	116.63				
	KB0	LB15	LB17	LBPT	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

81 TL		EDOT CRYSTAL, D# 4.404 ANGSTROMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	2.21	2.23	1.95	1.90	1.96			15.75	15.91	13.23
2	4.42	4.55	3.90	3.80	3.93			31.81	32.14	26.65
3	6.64	6.83	5.86	5.70	5.90			48.55	49.06	40.45
4	8.86	9.12	7.81	7.60	7.86			66.48	67.23	54.90
5	11.08	11.40	9.77	9.51	9.83			86.50	87.57	70.36
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	13.17	13.05	13.55	12.79	13.69	12.91	12.48	12.57	11.31	11.05
2	26.52	26.28	27.29	25.74	27.59	25.98	25.10	25.29	22.73	22.20
3	40.24	39.87	41.45	39.04	41.91	39.41	38.05	38.34	34.39	33.58
4	54.60	54.08	56.31	52.91	56.96	53.43	51.52	51.93	46.43	45.30
5	69.97	69.25	72.29	67.68	73.17	68.39	65.81	66.35	59.04	57.55
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	10.96	10.58	11.66	11.00	14.72	18.09	76.63	76.82		
2	22.02	21.25	23.45	22.10	29.68	36.66				
3	33.29	32.11	35.50	33.41	45.19	56.29				
4	44.91	43.28	47.96	45.08	61.63	77.95				
5	57.33	54.90	61.07	57.25	79.63	103.67				
	KB8	LB15	LB17	LB17	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	2.15	2.21	1.90	1.85	1.91	1.83	1.89	15.33	15.48	12.80
2	4.29	4.42	3.80	3.70	3.83	3.67	3.77	30.95	31.25	25.77
3	6.44	6.64	5.70	5.54	5.74	5.51	5.66	47.18	47.65	39.08
4	8.59	8.86	7.60	7.39	7.66	7.34	7.55	64.50	65.18	52.97
5	10.75	11.08	9.51	9.25	9.57	9.18	9.44	83.67	84.64	67.76
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	12.32	12.63	13.13	12.42	13.31	12.54	12.08	12.17	10.94	10.70
2	25.79	25.42	26.44	24.99	26.81	25.23	24.30	24.49	21.99	21.49
3	39.12	38.54	40.12	37.88	40.70	38.25	36.81	37.10	33.25	32.48
4	53.33	52.21	54.43	51.29	55.25	51.81	49.79	50.20	44.85	43.78
5	67.84	66.74	69.73	65.50	70.84	66.20	63.50	64.04	56.96	55.56
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	10.52	10.24	11.28	10.64	14.24	17.63	73.74	73.97		
2	21.33	20.56	22.68	21.38	28.71	35.70				
3	32.23	31.06	34.31	32.31	43.67	54.75				
4	43.45	41.83	46.32	43.56	59.46	75.62				
5	55.12	53.00	58.89	55.26	76.62	100.05				
	KB8	LB15	LB17	LB17	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

85 AT		EDDT CRYSTAL, D# 4.404 ANGSTROMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	1.98	2.04	1.74	1.70				14.15	14.31	11.65
2	3.96	4.09	3.49	3.41				28.53	28.85	23.42
3	5.94	6.13	5.23	5.11				43.38	43.88	35.46
4	7.92	8.18	6.98	6.82				59.04	59.76	47.91
5	9.90	10.23	8.73	8.53				76.04	77.03	60.99
	LE2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	11.79								9.94	
2	23.72								19.95	
3	35.71								30.13	
4	48.53								40.55	
5	61.33								51.33	
	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										
86 RN										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	1.93	1.99	1.70	1.65				13.78	13.94	11.28
2	3.85	3.98	3.41	3.30				27.77	28.10	22.68
3	5.78	5.97	5.11	4.96				42.20	42.70	34.31
4	7.71	7.97	6.82	6.61				57.37	58.09	46.32
5	9.64	9.97	8.53	8.27				73.74	74.72	58.89
	LE2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	11.48								9.63	
2	23.08								19.32	
3	34.92								29.16	
4	47.17								39.22	
5	60.02								49.61	
	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										

1
2
3
4
5

89 AC		EDDT CRYSTAL, D# 4.404 ANGSTROMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	1.77	1.83	1.57	1.52				12.78	12.93	10.28
2	3.54	3.67	3.15	3.04				25.71	26.04	20.64
3	5.31	5.51	4.72	4.57				39.00	39.49	31.18
4	7.38	7.34	6.30	6.09				52.85	53.55	41.99
5	8.36	9.18	7.88	7.62				67.60	68.54	53.22
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	10.51								8.78	
2	21.30								17.61	
3	32.19								26.54	
4	43.39								35.65	
5	55.34								44.99	
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1										
2										
3										
4										
5										
	KB1	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										
90 TH										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	1.73	1.80	1.52	1.48	1.54		1.51	12.46	12.62	9.97
2	3.46	3.59	3.04	2.97	3.07		3.02	25.07	25.39	20.01
3	5.19	5.39	4.57	4.45	4.61		4.53	38.01	38.50	30.21
4	6.93	7.19	6.09	5.94	6.14		6.04	51.46	52.16	40.66
5	8.66	8.99	7.62	7.42	7.68		7.55	65.73	66.67	51.48
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	10.34	9.83	10.33	9.97	10.79	10.08	9.42	9.51	8.50	8.36
2	20.77	19.74	20.75	20.01	21.67	20.24	18.90	19.08	17.05	16.76
3	31.38	29.80	31.34	30.21	32.76	30.57	28.51	28.79	25.70	25.26
4	42.27	40.10	42.22	40.66	44.17	41.16	38.34	38.72	34.50	33.90
5	53.58	50.76	53.51	51.48	56.07	52.13	48.46	48.96	43.52	42.75
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
1	8.28	7.96	8.79	8.23	11.13	14.55	56.04	56.23		
2	16.61	15.95	17.63	16.50	22.36	29.33	139.97	140.97		
3	25.02	24.02	26.58	24.86	33.82	44.64				
4	33.58	32.22	35.70	33.36	45.64	60.84				
5	42.33	40.59	45.06	42.05	58.00	78.54				
	KB1	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

91	PA	EDOT CRYSTAL, D# 4.404 ANGSTROMS									
	ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
	1	1.68	1.74	1.48	1.44				12.16	12.32	9.66
	2	3.36	3.49	2.97	2.89				24.46	24.78	19.40
	3	5.04	5.23	4.45	4.33				37.06	37.55	29.28
	4	6.72	6.98	5.94	5.78				50.14	50.83	39.38
	5	8.40	8.73	7.42	7.23				63.96	64.88	49.82
		LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
	1	10.08	9.53	10.03	9.70	10.53	9.83	9.13	9.22	8.26	8.13
	2	23.24	19.14	20.14	19.48	21.14	19.74	18.32	18.50	16.55	16.29
	3	30.57	28.87	30.41	29.40	31.95	29.80	27.63	27.91	24.94	24.54
	4	41.16	38.83	40.94	39.55	43.05	40.10	37.13	37.51	33.47	32.92
	5	52.13	49.11	51.84	50.04	54.60	50.76	46.90	47.39	42.19	41.49
		LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
	1	8.03	7.73	8.53	7.98	10.80	14.23	54.34	54.53		
	2	16.11	15.50	17.11	16.00	21.70	28.69	131.92	132.76		
	3	24.26	23.34	25.78	24.10	32.80	43.63				
	4	32.54	31.30	34.61	32.33	44.23	59.40				
	5	41.01	39.41	43.66	40.73	56.15	76.53				
		KB3	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
	1										
	2										
	3										
	4										
	5										
92	U										
	ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
	1	1.64	1.70	1.44	1.42	1.46			11.87	12.02	9.38
	2	3.28	3.41	2.89	2.84	2.91			23.88	24.17	18.82
	3	4.92	5.11	4.33	4.26	4.37			36.15	36.60	28.39
	4	6.56	6.82	5.78	5.67	5.83			48.88	49.51	38.17
	5	8.20	8.53	7.23	7.09	7.29			62.28	63.12	48.25
		LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
	1	9.83	9.25	9.74	9.46	10.27	9.59	8.87	8.95	8.01	7.88
	2	19.74	18.56	19.56	18.98	20.61	19.24	17.79	17.95	16.05	15.79
	3	29.80	27.99	29.52	28.63	31.14	29.04	26.82	27.06	24.18	23.78
	4	40.10	37.62	39.72	38.50	41.94	39.05	36.03	36.36	32.44	31.89
	5	50.76	47.54	50.25	48.68	53.14	49.39	45.48	45.91	40.87	40.17
		LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	MB	MY
	1	7.79		8.27	7.75	10.49	13.92	52.71	52.91		
	2	15.61		16.58	15.53	21.06	28.04	125.20	126.00		
	3	23.50		24.98	23.38	31.83	42.62				
	4	31.52		33.52	31.35	42.89	57.97				
	5	39.69		42.26	39.48	54.38	74.56				
		KB3	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
	1										
	2										
	3										
	4										
	5										

93	NP	EDDT CRYSTAL, D# 4.404 ANGSTROMS								
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	1.60	1.67	1.42	1.37				11.59	11.74	9.09
2	3.20	3.33	2.84	2.73				23.29	23.61	18.24
3	4.80	5.00	4.26	4.10				35.25	35.74	27.51
4	6.40	6.66	5.67	5.47				47.62	48.31	36.96
5	8.01	8.33	7.09	6.83				60.62	61.52	46.69
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	9.59								7.77	
2	19.24								15.58	
3	29.04								23.46	
4	39.05								31.46	
5	49.39								39.62	
	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										
94	PU									
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	1.56	1.63	1.38	1.34				11.31	11.47	8.83
2	3.12	3.25	2.76	2.68				22.73	23.05	17.71
3	4.68	4.88	4.14	4.02				34.39	34.88	26.70
4	6.25	6.51	5.52	5.36				46.43	47.11	35.87
5	7.81	8.14	6.90	6.70				59.04	59.94	45.27
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	9.35								7.54	
2	18.77								15.11	
3	28.31								22.75	
4	38.06								30.49	
5	48.11								38.38	
	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										

[illegible]

97 BK		EDDT CRYSTAL, D# 4.404 ANGSTROMS								
ORDER	KA	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	1.44	1.51	1.28	1.24				10.55	10.71	8.09
2	2.89	3.02	2.55	2.47				21.20	21.51	16.21
3	4.33	4.53	3.83	3.71				32.03	32.52	24.42
4	5.78	6.04	5.10	4.95				43.17	43.84	32.76
5	7.23	7.55	6.38	6.18				54.75	55.63	41.28
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	8.71								6.90	
2	17.47								13.82	
3	26.34								20.80	
4	35.37								27.85	
5	44.54								35.02	
	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										
98 CF										
ORDER	KA1	KA2	KB1	KB2	KB3	KB4	KB5	LA1	LA2	LB1
1	1.41	1.47	1.26	1.21				10.32	10.47	7.85
2	2.81	2.94	2.52	2.42				20.72	21.04	15.74
3	4.22	4.41	3.79	3.63				31.30	31.79	23.70
4	5.62	5.88	5.05	4.84				42.16	42.83	31.79
5	7.03	7.36	6.31	6.05				53.43	54.31	40.03
	LB2	LB3	LB4	LB5	LB6	LB7	LB9	LB10	LY1	LY2
1	8.50								6.70	
2	17.05								13.43	
3	25.70								20.20	
4	34.50								27.05	
5	43.52								34.00	
	LY3	LY4	LY5	LY6	LN	LL	MA1	MA2	M3	MY
1										
2										
3										
4										
5										
	KB7	LB15	LB17	LBP7	LY8	LY13	LYP4	LYP8	LS	LT
1										
2										
3										
4										
5										

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TABLE 2
GONIOMETER ANGLES ARRANGED BY ANGLE MAGNITUDE

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EDDT CRYSTAL, D# 4.404 ANGSTROMS						1.21 TO 1.77					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
1.21	98 CF	K82	1	0.093	1	1.52	95 AM	KA1	1	0.117	1
1.24	97 BK	K82	1	0.095	1	1.52	90 TH	K81	1	0.117	1,2,3
1.26	98 CF	K81	1	0.097	1	1.53	90 TH	K83	1	0.118	1,2
1.27	96 CM	K82	1	0.098	1	1.55	96 CM	KA2	1	0.119	1
1.27	97 BK	K81	1	0.098	1	1.56	88 RA	K82	1	0.120	1
1.30	95 AM	K82	1	0.100	1	1.56	94 PU	KA1	1	0.120	1
1.31	95 CM	K81	1	0.101	1	1.57	89 AC	K81	1	0.121	1
1.34	95 AM	K81	1	0.103	1	1.59	95 AM	KA2	1	0.122	1
1.34	94 PU	K82	1	0.103	1	1.60	93 NP	KA1	1	0.123	1
1.37	93 NP	K82	1	0.105	1	1.61	87 FR	K82	1	0.124	1
1.38	94 PU	K81	1	0.106	1	1.61	88 RA	K81	1	0.124	1
1.40	98 CF	KA1	1	0.108	1	1.63	94 PU	KA2	1	0.125	1
1.42	92 U	K82	1	0.109	1,2,3	1.64	92 U	KA1	1	0.126	1,2,3
1.42	93 NP	K81	1	0.109	1	1.65	86 RN	K82	1	0.127	1
1.44	92 U	K81	1	0.111	1,2,3	1.65	87 FR	K81	1	0.127	1
1.44	91 PA	K82	1	0.111	1	1.66	93 NP	KA2	1	0.128	1
1.44	97 BK	KA1	1	0.111	1	1.68	91 PA	KA1	1	0.129	1
1.46	92 U	K83	1	0.112	1,2	1.70	92 U	KA2	1	0.131	1,2,3
1.47	98 CF	KA2	1	0.113	1	1.70	86 RN	K81	1	0.131	1
1.48	96 CM	KA1	1	0.114	1	1.70	85 AT	K82	1	0.131	1
1.48	90 TH	K82	1	0.114	1,3	1.73	90 TH	KA1	1	0.133	1,2,3
1.48	91 PA	K81	1	0.114	1	1.74	91 PA	KA2	1	0.134	1
1.51	97 BK	KA2	1	0.116	1	1.74	85 AT	K81	1	0.134	1
1.51	90 TH	K85	1	0.116	1,2	1.74	84 PO	K82	1	0.134	1
1.52	39 AC	K82	1	0.117	1	1.77	89 AC	KA1	1	0.136	1

EDDT CRYSTAL, D# 4.404 ANGSTROMS						1.79 TO 2.26					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
1.79	84 PO	K81	1	0.138	1	2.02	79 AU	K82	1	0.155	1,3
1.79	83 BI	K82	1	0.138	1,3	2.03	84 PO	KA1	1	0.156	1
1.79	90 TH	KA2	1	0.138	1,2,3	2.04	85 AT	KA2	1	0.157	1
1.82	88 RA	KA1	1	0.140	1	2.06	79 AU	K85	1	0.158	1
1.83	89 AC	KA2	1	0.141	1	2.07	78 PT	K82	1	0.159	1,3
1.83	82 PB	K84	1	0.141	1,2	2.07	78 PT	K84	1	0.159	1,2
1.85	82 PB	K82	1	0.142	1,3	2.07	79 AU	K81	1	0.159	1,2,3
1.85	83 BI	K81	1	0.142	1,2,3	2.08	79 AU	K83	1	0.160	1,2
1.86	83 BI	K83	1	0.143	1,2	2.09	84 PO	KA2	1	0.161	1
1.87	87 FR	KA1	1	0.144	1	2.09	83 BI	KA1	1	0.161	1,2,3
1.89	88 RA	KA2	1	0.145	1	2.12	78 PT	K85	1	0.163	1
1.89	82 PB	K85	1	0.145	1	2.12	77 IR	K84	1	0.163	1,2
1.90	81 TL	K82	1	0.146	1	2.13	78 PT	K81	1	0.164	1,2,3
1.90	82 PB	K81	1	0.146	1,2,3	2.13	77 IR	K82	1	0.164	1,3
1.91	82 PB	K83	1	0.147	1	2.13	78 PT	K83	1	0.164	1,2
1.93	86 RN	KA1	1	0.148	1	2.15	82 PB	KA1	1	0.165	1,2,3
1.94	87 FR	KA2	1	0.149	1	2.16	83 BI	KA2	1	0.166	1,2,3
1.95	81 TL	K81	1	0.150	1,2,3	2.17	77 IR	K85	1	0.167	1
1.95	80 HG	K82	1	0.150	1	2.20	76 OS	K82	1	0.169	1,3
1.96	81 TL	K83	1	0.151	1,2	2.20	77 IR	K83	1	0.169	1,2
1.98	85 AT	KA1	1	0.152	1	2.20	77 IR	K81	1	0.169	1,2,3
1.99	86 RN	KA2	1	0.153	1	2.21	82 PB	KA2	1	0.170	1,2,3
2.00	79 AU	K84	1	0.154	1,2	2.21	81 TL	KA1	1	0.170	1,2,3
2.00	80 HG	K81	1	0.154	1	2.26	76 OS	K83	1	0.174	1,2
2.02	80 HG	K83	1	0.155	1	2.26	75 RE	K82	1	0.174	1,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS						2.26 TC 2.80					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
2.26	76 OS	KB1	1	0.174	1,2,3	2.55	72 HF	KB3	1	0.196	1,2
2.28	80 HG	KA1	1	0.175	1	2.55	97 BK	KB1	2	0.098	1
2.28	81 TL	KA2	1	0.175	1,2,3	2.55	77 IR	KA2	1	0.196	1,2,3
2.33	75 RE	KB1	1	0.179	1,2,3	2.55	72 HF	KB1	1	0.196	1,2,3
2.33	74 W	KB4	1	0.179	1	2.55	96 CM	KB2	2	0.098	1
2.33	75 RE	KB3	1	0.179	1,2	2.56	71 LU	KB2	1	0.197	1,2,3
2.33	74 W	KB2	1	0.179	1,2,3	2.56	76 OS	KA1	1	0.197	1,2,3
2.34	79 AU	KA1	1	0.180	1,2,3	2.60	95 AM	KB2	2	0.100	1
2.34	80 HG	KA2	1	0.180	1	2.63	96 CM	KB1	2	0.101	1
2.38	74 W	KB5	1	0.183	1	2.63	76 OS	KA2	1	0.202	1,2,3
2.39	73 TA	KB4	1	0.184	1	2.63	71 LU	KB1	1	0.202	1,2,3
2.39	74 W	KB1	1	0.184	1,2,3	2.64	71 LU	KB3	1	0.203	1,2
2.41	74 W	KB3	1	0.185	1,2	2.64	75 RE	KA1	1	0.203	1,2,3
2.41	73 TA	KB2	1	0.185	1,2,3	2.65	70 YB	KB2	1	0.204	1,2,3
2.41	79 AU	KA2	1	0.185	1,2,3	2.68	95 AM	KB1	2	0.103	1
2.42	98 CF	KB2	2	0.093	1	2.68	94 PU	KB2	2	0.103	1
2.42	78 PT	KA1	1	0.186	1,2,3	2.71	75 RE	KA2	1	0.208	1,2,3
2.46	73 TA	KB5	1	0.189	1	2.72	74 W	KA1	1	0.209	1,2,3
2.47	97 BK	KB2	2	0.095	1	2.72	70 YB	KB3	1	0.209	1,2
2.47	73 TA	KB1	1	0.190	1,2,3	2.72	70 YB	KB1	1	0.209	1,2,3
2.47	78 PT	KA2	1	0.190	1,2,3	2.73	93 NP	KB2	2	0.105	1
2.48	72 HF	KB2	1	0.191	1,2,3	2.73	69 TM	KB2	1	0.210	1
2.48	73 TA	KB3	1	0.191	1,2	2.76	94 PU	KB1	2	0.106	1
2.48	77 IR	KA1	1	0.191	1,2,3	2.78	74 W	KA2	1	0.214	1,2,3
2.52	98 CF	KB1	2	0.097	1	2.80	73 TA	KA1	1	0.215	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS							2.80 TO 3.28						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
2.80	69 TM	KB1	1	0.215	1,2,3		3.04	89 AC	KB2	2	0.117	1	
2.81	98 CF	KA1	2	0.108	1		3.04	95 AM	KA1	2	0.117	1	
2.81	69 TM	KB3	1	0.216	1,2		3.04	71 LU	KA2	1	0.234	1,2,3	
2.82	68 ER	KB2	1	0.217	1,2,3		3.04	90 TH	KB1	2	0.117	1,2,3	
2.84	93 NP	KB1	2	0.109	1		3.07	90 TH	KB3	2	0.118	1,2	
2.84	92 U	KB2	2	0.109	1,2,3		3.08	66 DY	KB1	1	0.237	1,2,3	
2.86	73 TA	KA2	1	0.220	1,2,3		3.08	70 YB	KA1	1	0.237	1,2,3	
2.89	92 U	KB1	2	0.111	1,2,3		3.10	66 DY	KB3	1	0.238	1,2	
2.89	72 HF	KA1	1	0.222	1,2,3		3.10	96 CM	KA2	2	0.119	1	
2.89	91 PA	KB2	2	0.111	1		3.12	88 RA	KB2	2	0.120	1	
2.89	97 BK	KA1	2	0.111	1		3.12	94 PU	KA1	2	0.120	1	
2.90	68 ER	KB3	1	0.223	1,2		3.12	65 TB	KB2	1	0.240	1,2,3	
2.90	68 ER	KB1	1	0.223	1,2,3		3.14	70 YB	KA2	1	0.241	1,2,3	
2.91	92 U	KB3	2	0.112	1,2		3.15	89 AC	KB1	2	0.121	1	
2.91	67 HO	KB2	1	0.224	1		3.17	95 AM	KA2	2	0.122	1	
2.94	98 CF	KA2	2	0.113	1		3.17	69 TM	KA1	1	0.244	1,2,3	
2.95	72 HF	KA2	1	0.227	1,2,3		3.20	65 TB	KB1	1	0.246	1,2,3	
2.97	90 TH	KB2	2	0.114	1,3		3.20	93 NP	KA1	2	0.123	1	
2.97	91 PA	KB1	2	0.114	1		3.20	65 TB	KB3	1	0.246	1,2	
2.97	96 CM	KA1	2	0.114	1		3.23	88 RA	KB1	2	0.124	1	
2.98	71 LU	KA1	1	0.229	1,2,3		3.23	87 FR	KB2	2	0.124	1	
2.99	67 HO	KB1	1	0.230	1		3.23	64 GD	KB2	1	0.248	1,2,3	
3.02	97 BK	KA2	2	0.116	1		3.24	69 TM	KA2	1	0.249	1,2,3	
3.02	66 DY	KB2	1	0.232	1,2,3		3.25	94 PU	KA2	2	0.125	1	
3.02	90 TH	KB5	2	0.116	1,2		3.28	92 U	KA1	2	0.126	1,2,3	

EDCT CRYSTAL, D# 4.404 ANGSTROMS						3.28 TO 3.80					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
3.28	68 ER	KA1	1	0.252	1,2,3	3.56	66 DY	KA2	1	0.274	1,2,3
3.30	64 GD	KB1	1	0.254	1,2,3	3.59	84 PO	KB1	2	0.138	1
3.30	87 FR	KB1	2	0.127	1	3.59	61 PM	KB2	1	0.276	1
3.30	86 RN	KB2	2	0.127	1	3.59	90 TH	KA2	2	0.138	1,2,3
3.32	64 GD	KB3	1	0.255	1,2	3.59	83 BI	KB2	2	0.138	1,3
3.33	93 NP	KA2	2	0.128	1	3.63	65 TB	KA1	1	0.279	1,2,3
3.34	63 EU	KB2	1	0.257	1,2,3	3.63	98 CF	KB2	3	0.093	1
3.34	68 ER	KA2	1	0.257	1,2,3	3.64	88 RA	KA1	2	0.140	1
3.36	91 PA	KA1	2	0.129	1	3.67	61 PM	KB1	1	0.282	1,2,3
3.40	67 HO	KA1	1	0.261	1,2,3	3.67	82 PB	KB4	2	0.141	1,2
3.41	86 RN	KB1	2	0.131	1	3.67	89 AC	KA2	2	0.141	1
3.41	85 AT	KB2	2	0.131	1	3.68	65 TB	KA2	1	0.293	1,2,3
3.41	92 U	KA2	2	0.131	1,2,3	3.68	61 PM	KB3	1	0.283	2
3.43	63 EU	KB1	1	0.264	1,2,3	3.69	83 BI	KB1	2	0.142	1,2,3
3.43	63 EU	KB3	1	0.264	1,2	3.69	82 PB	KB2	2	0.142	1,3
3.46	67 HO	KA2	1	0.266	1,2,3	3.71	97 BK	KB2	3	0.095	1
3.46	62 SM	KB2	1	0.265	1,2,3	3.72	83 BI	KB3	2	0.143	1,2
3.46	90 TH	KA1	2	0.133	1,2,3	3.72	60 ND	KB2	1	0.286	1,2,3
3.49	85 AT	KB1	2	0.134	1	3.75	64 GD	KA1	1	0.288	1,2,3
3.49	84 PO	KB2	2	0.134	1	3.75	87 FR	KA1	2	0.144	1
3.49	91 PA	KA2	2	0.134	1	3.77	82 PB	KB5	2	0.145	1
3.51	66 DY	KA1	1	0.270	1,2,3	3.77	88 RA	KA2	2	0.145	1
3.54	89 AC	KA1	2	0.136	1	3.79	98 CF	KB1	3	0.097	1
3.55	62 SM	KB1	1	0.213	1,2,3	3.80	82 PB	KB1	2	0.146	1,2,3
3.56	62 SM	KB3	1	0.214	1,2	3.80	81 TL	KB2	2	0.146	1

EDDT CRYSTAL, D# 4.404 ANGSTROMS							3.81 TO 4.25						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
3.81	64 GD	KA2	1	0.293	1,2,3		4.02	94 PU	KB2	3	0.103	1	
3.81	60 ND	KB1	1	0.293	1,2,3		4.03	79 AU	KB2	2	0.155	1,3	
3.83	82 PB	KB3	2	0.147	1		4.03	80 HG	KB3	2	0.155	1	
3.83	60 ND	KB3	1	0.294	1,2		4.06	84 PO	KA1	2	0.156	1	
3.83	96 CM	KB2	3	0.098	1		4.09	85 AT	KA2	2	0.157	1	
3.83	97 BK	KB1	3	0.098	1		4.09	62 SM	KA2	1	0.314	1,2,3	
3.85	86 RN	KA1	2	0.148	1		4.10	93 NP	KB2	3	0.105	1	
3.86	59 PR	KB2	1	0.297	1,2,3		4.11	79 AU	KB5	2	0.158	1	
3.88	87 FR	KA2	2	0.149	1		4.11	58 CE	KB3	1	0.316	1,2	
3.89	63 EU	KA1	1	0.299	1,2,3		4.11	58 CE	KB1	1	0.316	1,2,3	
3.90	81 TL	KB1	2	0.150	1,2,3		4.14	78 PT	KB2	2	0.159	1,3	
3.90	80 HG	KB2	2	0.150	1		4.14	79 AU	KB1	2	0.159	1,2,3	
3.90	95 AM	KB2	3	0.100	1		4.14	94 PU	KB1	3	0.106	1	
3.93	81 TL	KB3	2	0.151	1,2		4.14	78 PT	KB4	2	0.159	1,2	
3.94	63 EU	KA2	1	0.303	1,2,3		4.16	79 AU	KB3	2	0.160	1,2	
3.94	96 CM	KB1	3	0.101	1		4.16	57 LA	KB2	1	0.320	1,2,3	
3.96	59 PR	KB1	1	0.304	1,2,3		4.18	61 PM	KA1	1	0.321	1,2,3	
3.96	85 AT	KA1	2	0.152	1		4.19	84 PO	KA2	2	0.161	1	
3.97	59 PR	KB3	1	0.305	1,2		4.19	83 BI	KA1	2	0.161	1,2,3	
3.98	86 RN	KA2	2	0.153	1		4.22	98 CF	KA1	3	0.108	1	
4.01	58 CE	KB2	1	0.308	1,2,3		4.23	61 PM	KA2	1	0.325	1,2,3	
4.01	80 HG	KB1	2	0.154	1		4.24	57 LA	KB5	1	0.326	1	
4.01	79 AU	KB4	2	0.154	1,2		4.24	77 IR	KB4	2	0.163	1,2	
4.02	95 AM	KB1	3	0.103	1		4.24	78 PT	KB5	2	0.163	1	
4.02	62 SM	KA1	1	0.309	1,2,3		4.25	93 NP	KB1	3	0.109	1	

ECDT CRYSTAL, D# 4.404 ANGSTROMS						4.25 TO 4.66					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
4.25	92 U	KB2	3	0.109	1,2,3	4.45	90 TH	KB2	3	0.114	1,3
4.27	57 LA	KB1	1	0.328	1,2,3	4.45	96 CM	KA1	3	0.114	1
4.27	78 PT	KB1	2	0.164	1,2,3	4.45	91 PA	KB1	3	0.114	1
4.27	77 IR	KB2	2	0.164	1,3	4.48	59 PR	KA1	1	0.344	1,2,3
4.27	78 PT	KB3	2	0.164	1,2	4.50	55 CS	KB2	1	0.346	1,2,3
4.28	57 LA	KB3	1	0.329	1,2	4.53	90 TH	KB5	3	0.116	1,2
4.29	82 PB	KA1	2	0.165	1,2,3	4.53	97 BK	KA2	3	0.116	1
4.32	83 BI	KA2	2	0.165	1,2,3	4.53	76 OS	KB1	2	0.174	1,2,3
4.32	60 ND	KA1	1	0.332	1,2,3	4.53	76 OS	KB3	2	0.174	1,2
4.33	91 PA	KB2	3	0.111	1	4.53	75 RE	KB2	2	0.174	1,3
4.33	97 BK	KA1	3	0.111	1	4.54	59 PR	KA2	1	0.349	1,2,3
4.33	56 BA	KB2	1	0.333	1,2,3	4.55	81 TL	KA2	2	0.175	1,2,3
4.33	92 U	KB1	3	0.111	1,2,3	4.55	80 HG	KA1	2	0.175	1
4.35	77 IR	KB5	2	0.167	1	4.57	89 AC	KB2	3	0.117	1
4.37	92 U	KB3	3	0.112	1,2	4.57	90 TH	KB1	3	0.117	1,2,3
4.37	60 ND	KA2	1	0.336	1,2,3	4.57	95 AM	KA1	3	0.117	1
4.40	77 IR	KB1	2	0.169	1,2,3	4.61	90 TH	KB3	3	0.118	1,2
4.40	77 IR	KB3	2	0.169	1,2	4.61	55 CS	KB1	1	0.354	1,2,3
4.40	76 OS	KB2	2	0.169	1,3	4.62	55 CS	KB3	1	0.355	1,2
4.40	56 BA	KB5	1	0.338	1	4.65	58 CE	KA1	1	0.357	1,2,3
4.41	98 CF	KA2	3	0.113	1	4.65	96 CM	KA2	3	0.119	1
4.42	81 TL	KA1	2	0.170	1,2,3	4.66	74 W	KB4	2	0.179	1
4.42	82 PB	KA2	2	0.170	1,2,3	4.66	74 W	KB2	2	0.179	1,2,3
4.44	56 BA	KB1	1	0.341	1,2,3	4.66	75 RE	KB3	2	0.179	1,2
4.44	56 BA	KB3	1	0.341	1,2	4.66	75 RE	KB1	2	0.179	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS						4.68 TO 5.11					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
4.68	88 RA	K82	3	0.120	I	4.92	92 U	KA1	3	0.126	1,2,3
4.68	79 AU	KA1	2	0.180	1,2,3	4.94	78 PT	KA2	2	0.190	1,2,3
4.68	80 HG	KA2	2	0.180	I	4.94	73 TA	K81	2	0.190	1,2,3
4.68	54 XE	K82	1	0.360	1,2,3	4.94	97 BK	K82	4	0.095	I
4.68	94 PU	KA1	3	0.120	I	4.96	87 FR	K81	3	0.127	I
4.71	58 CE	KA2	1	0.362	1,2,3	4.96	86 RN	K82	3	0.127	I
4.72	89 AC	K81	3	0.121	I	4.97	72 HF	K82	2	0.191	1,2,3
4.76	95 AM	KA2	3	0.122	I	4.97	73 TA	K83	2	0.191	1,2
4.76	74 W	K85	2	0.183	I	4.97	77 IR	KA1	2	0.191	1,2,3
4.79	54 XE	K81	1	0.368	1,2,3	5.00	53 I	K81	1	0.384	1,2,3
4.79	73 TA	K84	2	0.184	I	5.00	93 NP	KA2	3	0.128	I
4.79	74 W	K81	2	0.184	1,2,3	5.01	53 I	K83	1	0.385	1,2
4.80	93 NP	KA1	3	0.123	I	5.01	56 BA	KA1	1	0.385	1,2,3
4.81	79 AU	KA2	2	0.185	1,2,3	5.04	91 PA	KA1	3	0.129	I
4.81	74 W	K83	2	0.185	1,2	5.05	98 CF	K81	4	0.097	I
4.81	73 TA	K82	2	0.185	1,2,3	5.08	56 BA	KA2	1	0.390	1,2,3
4.83	57 LA	KA1	1	0.371	1,2,3	5.09	52 TE	K82	1	0.391	1,2,3
4.84	88 RA	K81	3	0.124	I	5.10	72 HF	K81	2	0.196	1,2,3
4.84	87 FR	K82	3	0.124	I	5.10	97 BK	K81	4	0.098	I
4.84	98 CF	K82	4	0.093	I	5.10	72 HF	K83	2	0.196	1,2
4.84	78 PT	KA1	2	0.186	1,2,3	5.10	96 CM	K82	4	0.098	I
4.88	53 I	K82	1	0.375	1,2,3	5.10	77 IR	KA2	2	0.196	1,2,3
4.88	57 LA	KA2	1	0.375	1,2,3	5.11	85 AT	K82	3	0.131	I
4.88	94 PU	KA2	3	0.125	I	5.11	92 U	KA2	3	0.131	1,2,3
4.92	73 TA	K85	2	0.189	I	5.11	86 RN	K81	3	0.131	I

EDDT CRYSTAL, D# 4.404 ANGSTROMS						5.13 TO 5.62					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
5.13	71 LU	KB2	2	0.197	1,2,3	5.41	54 XE	KA1	1	0.416	1,2,3
5.13	76 OS	KA1	2	0.197	1,2,3	5.41	75 RE	KA2	2	0.208	1,2,3
5.19	90 TH	KA1	3	0.133	1,2,3	5.43	51 SB	KB1	1	0.417	1,2,3
5.21	95 AM	KB2	4	0.130	1	5.44	70 YB	KB1	2	0.209	1,2,3
5.21	55 CS	KA1	1	0.430	1,2,3	5.44	74 W	KA1	2	0.209	1,2,3
5.21	52 TE	KB1	1	0.430	1,2,3	5.44	70 YB	KB3	2	0.209	1,2
5.22	52 TE	KB3	1	0.401	1,2	5.44	51 SB	KB3	1	0.418	1,2
5.23	84 PO	KB2	3	0.134	1	5.47	93 NP	KB2	4	0.105	1
5.23	91 PA	KA2	3	0.134	1	5.47	54 XE	KA2	1	0.420	1,2,3
5.23	85 AT	KB1	3	0.134	1	5.47	69 TM	KB2	2	0.210	1
5.26	76 OS	KA2	2	0.202	1,2,3	5.47	88 RA	KA1	3	0.140	1
5.26	96 CM	KB1	4	0.101	1	5.50	82 PB	KB4	3	0.141	1,2
5.26	71 LU	KB1	2	0.202	1,2,3	5.50	89 AC	KA2	3	0.141	1
5.27	55 CS	KA2	1	0.405	1,2,3	5.52	94 PU	KB1	4	0.106	1
5.28	71 LU	KB3	2	0.203	1,2	5.54	83 BI	KB1	3	0.142	1,2,3
5.28	75 RE	KA1	2	0.203	1,2,3	5.54	82 PB	KB2	3	0.142	1,3
5.31	51 SB	KB2	1	0.408	1,2,3	5.54	50 SN	KB2	1	0.426	1,2,3
5.31	89 AC	KA1	3	0.136	1	5.57	74 W	KA2	2	0.214	1,2,3
5.31	70 YB	KB2	2	0.204	1,2,3	5.58	83 BI	KB3	3	0.143	1,2
5.36	94 PU	KB2	4	0.103	1	5.60	69 TM	KB1	2	0.215	1,2,3
5.36	95 AM	KB1	4	0.103	1	5.60	73 TA	KA1	2	0.215	1,2,3
5.39	84 PO	KB1	3	0.138	1	5.62	50 SN	KB5	1	0.432	1
5.39	51 SB	KB5	1	0.414	1	5.62	69 TM	KB3	2	0.216	1,2
5.39	90 TH	KA2	3	0.138	1,2,3	5.62	87 FR	KA1	3	0.144	1
5.39	83 BI	KB2	3	0.138	1,3	5.62	98 CF	KA1	4	0.108	1

EDDT CRYSTAL, D# 4.404 ANGSTROMS						5.64 TO 6.05					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
5.64	53 I	KA1	1	0.433	1,2,3	5.86	81 TL	KB1	3	0.150	1,2,3
5.65	68 ER	KB2	2	0.217	1,2,3	5.87	49 IN	KB5	1	0.451	1
5.66	82 PB	KB5	3	0.145	1	5.87	52 TE	KA1	1	0.451	1,2,3
5.66	88 RA	KA2	3	0.145	1	5.88	98 CF	KA2	4	0.113	1
5.66	50 SN	KB1	1	0.435	1,2,3	5.90	81 TL	KB3	3	0.151	1,2
5.67	92 U	KB2	4	0.109	1,2,3	5.91	72 HF	KA2	2	0.227	1,2,3
5.67	50 SN	KB3	1	0.436	1,2	5.92	49 IN	KB1	1	0.455	1,2,3
5.67	93 NP	KB1	4	0.109	1	5.92	49 IN	KB3	1	0.455	1,2
5.70	81 TL	KB2	3	0.146	1	5.93	90 TH	KB2	4	0.114	1,3
5.70	82 PB	KB1	3	0.146	1,2,3	5.93	52 TE	KA2	1	0.456	1,2,3
5.70	53 I	KA2	1	0.438	1,2,3	5.93	96 CM	KA1	4	0.114	1
5.73	73 TA	KA2	2	0.220	1,2,3	5.93	85 AT	KA1	3	0.152	1
5.74	82 PB	KB3	3	0.147	1	5.93	91 PA	KB1	4	0.114	1
5.78	92 U	KB1	4	0.111	1,2,3	5.96	71 LU	KA1	2	0.229	1,2,3
5.78	72 HF	KA1	2	0.222	1,2,3	5.97	86 RN	KA2	3	0.153	1
5.78	91 PA	KB2	4	0.111	1	5.99	67 HO	KB1	2	0.230	1
5.78	86 RN	KA1	3	0.148	1	6.01	80 HG	KB1	3	0.154	1
5.78	97 BK	KA1	4	0.111	1	6.01	79 AU	KB4	3	0.154	1,2
5.79	49 IN	KB2	1	0.445	1,2,3	6.04	90 TH	KB5	4	0.116	1,2
5.80	68 ER	KB1	2	0.223	1,2,3	6.04	97 BK	KA2	4	0.116	1
5.80	68 ER	KB3	2	0.223	1,2	6.04	66 OY	KB2	2	0.232	1,2,3
5.82	87 FR	KA2	3	0.149	1	6.05	79 AU	KB2	3	0.155	1,3
5.83	67 HO	KB2	2	0.224	1	6.05	80 HG	KB3	3	0.155	1
5.83	92 U	KB3	4	0.112	1,2	6.05	98 CF	KB2	5	0.093	1
5.86	80 HG	KB2	3	0.150	1	6.05	48 CD	KB2	1	0.465	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS							6.09 TO 6.47						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
6.09	90 TH	KB1	4	0.117	1,2,3		6.29	83 BI	KA1	3	0.161	1,2,3	
6.09	84 PO	KA1	3	0.156	1		6.29	84 PO	KA2	3	0.161	1	
6.09	89 AC	KB2	4	0.117	1		6.30	89 AC	KB1	4	0.121	1	
6.09	71 LU	KA2	2	0.234	1,2,3		6.31	98 CF	KB1	5	0.097	1	
6.09	95 AM	KA1	4	0.117	1		6.34	47 AG	KB2	1	0.487	1,2,3	
6.12	51 SB	KA1	1	0.470	1,2,3		6.35	95 AM	KA2	4	0.122	1	
6.13	85 AT	KA2	3	0.157	1		6.35	69 TM	KA1	2	0.244	1,2,3	
6.14	90 TH	KB3	4	0.118	1,2		6.36	78 PT	KB5	3	0.163	1	
6.17	70 YB	KA1	2	0.237	1,2,3		6.36	77 IR	KB4	3	0.163	1,2	
6.17	79 AU	KB5	3	0.158	1		6.38	96 CM	KB2	5	0.098	1	
6.17	66 DY	KB1	2	0.237	1,2,3		6.38	97 BK	KB1	5	0.098	1	
6.18	51 SB	KA2	1	0.475	1,2,3		6.39	50 SN	KA1	1	0.491	1,2,3	
6.18	97 BK	KB2	5	0.095	1		6.40	78 PT	KB3	3	0.164	1,2	
6.18	48 CD	KB1	1	0.475	1,2,3		6.40	77 IR	KB2	3	0.164	1,3	
6.20	48 CD	KB3	1	0.476	1,2		6.40	93 NP	KA1	4	0.123	1	
6.20	66 DY	KB3	2	0.238	1,2		6.40	65 TB	KB1	2	0.246	1,2,3	
6.20	96 CM	KA2	4	0.119	1		6.40	65 TB	KB3	2	0.246	1,2	
6.21	78 PT	KB2	3	0.159	1,3		6.40	78 PT	KB1	3	0.164	1,2,3	
6.21	79 AU	KB1	3	0.159	1,2,3		6.42	47 AG	KB5	1	0.493	1	
6.21	78 PT	KB4	3	0.159	1,2		6.44	82 PB	KA1	3	0.165	1,2,3	
6.25	79 AU	KB3	3	0.160	1,2		6.44	50 SN	KA2	1	0.495	1,2,3	
6.25	94 PU	KA1	4	0.120	1		6.46	88 RA	KB1	4	0.124	1	
6.25	65 TB	KB2	2	0.240	1,2,3		6.46	64 GD	KB2	2	0.248	1,2,3	
6.25	88 RA	KB2	4	0.120	1		6.46	87 FR	KB2	4	0.124	1	
6.27	70 YB	KA2	2	0.241	1,2,3		6.47	47 AG	KB1	1	0.497	1,2,3	

EDDT CRYSTAL, D# 4.404 ANGSTROMS						6.48 TO 6.96					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
6.48	47 AG	KB3	1	0.498	1,2	6.70	94 PU	KB2	5	0.103	1
6.48	69 TM	KA2	2	0.249	1,2,3	6.72	91 PA	KA1	4	0.129	1
6.48	83 BI	KA2	3	0.166	1,2,3	6.73	49 IN	KA2	1	0.517	1,2,3
6.51	95 AM	KB2	5	0.100	1	6.73	46 PD	KB5	1	0.517	1
6.51	94 PU	KA2	4	0.125	1	6.78	46 PD	KB3	1	0.521	1,2
6.52	77 IR	KB5	3	0.167	1	6.78	46 PD	KB1	1	0.521	1,2,3
6.56	92 U	KA1	4	0.126	1,2,3	6.79	67 HO	KA1	2	0.261	1,2,3
6.56	68 ER	KA1	2	0.252	1,2,3	6.79	76 OS	KB1	3	0.174	1,2,3
6.57	96 CM	KB1	5	0.101	1	6.79	76 OS	KB3	3	0.174	1,2
6.60	77 IR	KB3	3	0.169	1,2	6.79	75 RE	KB2	3	0.174	1,3
6.60	76 OS	KB2	3	0.169	1,3	6.82	86 RN	KB1	4	0.131	1
6.60	77 IR	KB1	3	0.169	1,2,3	6.82	85 AT	KB2	4	0.131	1
6.61	87 FR	KB1	4	0.127	1	6.82	92 U	KA2	4	0.131	1,2,3
6.61	86 RN	KB2	4	0.127	1	6.83	81 TL	KA2	3	0.175	1,2,3
6.61	64 GD	KB1	2	0.254	1,2,3	6.83	80 HG	KA1	3	0.175	1
6.64	64 GD	KB3	2	0.255	1,2	6.83	93 NP	KB2	5	0.105	1
6.64	82 PB	KA2	3	0.170	1,2,3	6.87	63 EU	KB1	2	0.264	1,2,3
6.64	81 TL	KA1	3	0.170	1,2,3	6.87	63 EU	KB3	2	0.264	1,2
6.64	46 PD	KB2	1	0.510	1,2,3	6.90	97 BK	LY1	1	0.530	1
6.66	49 IN	KA1	1	0.512	1,2,3	6.90	94 PU	KB1	5	0.106	1
6.66	93 NP	KA2	4	0.128	1	6.93	62 SM	KB2	2	0.266	1,2,3
6.69	68 ER	KA2	2	0.257	1,2,3	6.93	67 HO	KA2	2	0.266	1,2,3
6.69	63 EU	KB2	2	0.257	1,2,3	6.93	90 TH	KA1	4	0.133	1,2,3
6.70	95 AM	KB1	5	0.103	1	6.96	48 CD	KA1	1	0.535	1,2,3
6.70	98 CF	LY1	1	0.515	1	6.96	45 RH	KB2	1	0.535	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS							6.98 TO 7.38						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
6.98	85 AT	KB1	4	0.134	1		7.19	84 PO	KB1	4	0.138	1	
6.98	84 PO	KB2	4	0.134	1		7.19	73 TA	KB4	3	0.184	1	
6.98	91 PA	KA2	4	0.134	1		7.19	83 BI	KB2	4	0.138	1,3	
6.99	75 RE	KB1	3	0.179	1,2,3		7.19	90 TH	KA2	4	0.138	1,2,3	
6.99	75 RE	KB3	3	0.179	1,2		7.22	91 PA	KB2	5	0.111	1	
6.99	74 W	KB2	3	0.179	1,2,3		7.22	97 BK	KA1	5	0.111	1	
6.99	74 W	KB4	3	0.179	1		7.22	73 TA	KB2	3	0.185	1,2,3	
7.02	48 CD	KA2	1	0.539	1,2,3		7.22	92 U	KB1	5	0.111	1,2,3	
7.03	79 AU	KA1	3	0.180	1,2,3		7.22	74 W	KB3	3	0.185	1,2	
7.03	66 DY	KA1	2	0.270	1,2,3		7.22	79 AU	KA2	3	0.185	1,2,3	
7.03	80 HG	KA2	3	0.180	1		7.26	65 TB	KA1	2	0.279	1,2,3	
7.03	98 CF	KA1	5	0.106	1		7.26	78 PT	KA1	3	0.186	1,2,3	
7.04	45 RH	KB5	1	0.541	1		7.28	47 AG	KA1	1	0.559	1,2,3	
7.08	89 AC	KA1	4	0.136	1		7.29	92 U	KB3	5	0.112	1,2	
7.09	92 U	KB2	5	0.109	1,2,3		7.29	88 RA	KA1	4	0.140	1	
7.09	93 NP	KB1	5	0.109	1		7.32	95 AM	LY1	1	0.562	1,3	
7.11	96 CM	LY1	1	0.546	1		7.32	44 RU	KB2	1	0.562	1,2,3	
7.11	45 RH	KB1	1	0.546	1,2,3		7.34	82 PB	KB4	4	0.141	1,2	
7.11	45 RH	KB3	1	0.545	1,2		7.34	89 AC	KA2	4	0.141	1	
7.11	62 SM	KB1	2	0.273	1,2,3		7.34	61 PM	KB1	2	0.282	1,2,3	
7.13	66 DY	KA2	2	0.274	1,2,3		7.34	47 AG	KA2	1	0.564	1,2,3	
7.13	62 SM	KB3	2	0.274	1,2		7.36	98 CF	KA2	5	0.113	1	
7.15	74 W	KB5	3	0.183	1		7.37	65 TB	KA2	2	0.283	1,2,3	
7.19	61 PM	KB2	2	0.276	1		7.37	61 PM	KB3	2	0.283	2	
7.19	74 W	KB1	3	0.184	1,2,3		7.38	73 TA	KB5	3	0.189	1	

EODT CRYSTAL, D# 4.404 ANGSTROMS						7.39 TO 7.79					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
7.39	82 PB	KB2	4	0.142	1,3	7.62	89 AC	KB2	5	0.117	1
7.39	44 RU	KB5	1	0.568	1	7.62	95 AM	KA1	5	0.117	1
7.39	83 BI	KB1	4	0.142	1,2,3	7.62	90 TH	KB1	5	0.117	1,2,3
7.42	73 TA	KB1	3	0.190	1,2,3	7.63	60 ND	KB1	2	0.293	1,2,3
7.42	96 CM	KA1	5	0.114	1	7.63	64 GD	KA2	2	0.293	1,2,3
7.42	78 PT	KA2	3	0.190	1,2,3	7.66	77 IR	KA2	3	0.196	1,2,3
7.42	91 PA	KB1	5	0.114	1	7.66	82 PB	KB3	4	0.147	1
7.42	90 TH	KB2	5	0.114	1,3	7.66	60 ND	KB3	2	0.294	1,2
7.45	83 BI	KB3	4	0.143	1,2	7.66	72 HF	KB1	3	0.196	1,2,3
7.45	44 RU	KB1	1	0.572	1,2,3	7.66	72 HF	KB3	3	0.196	1,2
7.45	60 ND	KB2	2	0.286	1,2,3	7.68	90 TH	KB3	5	0.118	1,2
7.46	77 IR	KA1	3	0.191	1,2,3	7.68	43 TC	KB4	1	0.590	1
7.46	73 TA	KB3	3	0.191	1,2	7.68	46 PD	KA2	1	0.590	1,2,3
7.46	44 RU	KB3	1	0.573	1,2	7.68	43 TC	KB2	1	0.590	1
7.46	72 HF	KB2	3	0.191	1,2,3	7.69	71 LU	KB2	3	0.197	1,2,3
7.50	87 FR	KA1	4	0.144	1	7.69	76 OS	KA1	3	0.197	1,2,3
7.50	64 GD	KA1	2	0.288	1,2,3	7.71	86 RN	KA1	4	0.148	1
7.54	94 PU	LY1	1	0.579	1	7.73	59 PR	KB2	2	0.297	1,2,3
7.55	97 BK	KA2	5	0.116	1	7.73	91 PA	LY4	1	0.594	1,2
7.55	82 PB	KB5	4	0.145	1	7.75	92 U	LY6	1	0.595	1,2
7.55	90 TH	KB5	5	0.116	1,2	7.75	96 CM	KA2	5	0.119	1
7.55	88 RA	KA2	4	0.145	1	7.76	87 FR	KA2	4	0.149	1
7.60	81 TL	KB2	4	0.146	1	7.77	93 NP	LY1	1	0.597	1,2,3
7.60	82 PB	KB1	4	0.146	1,2,3	7.79	92 U	LY3	1	0.598	1,2,3
7.62	46 PD	KA1	1	0.585	1,2,3	7.79	63 EU	KA1	2	0.299	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS						7.81 TO 8.20					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
7.81	81 TL	KB1	4	0.150	1,2,3	8.01	92 U	LY1	1	0.615	1,2,3
7.81	80 HG	KB2	4	0.150	1	8.02	79 AU	KB4	4	0.154	1,2
7.81	94 PU	KA1	5	0.120	1	8.02	58 CE	KB2	2	0.308	1,2,3
7.81	88 RA	KB2	5	0.120	1	8.02	80 HG	KB1	4	0.154	1
7.82	43 TC	KB3	1	0.601	1,2	8.03	91 PA	LY3	1	0.617	1,2,3
7.84	43 TC	KB1	1	0.602	1,2,3	8.05	62 SM	KA1	2	0.309	1,2,3
7.85	98 CF	LB1	1	0.603	1	8.05	45 RH	KA2	1	0.618	1,2,3
7.86	81 TL	KB3	4	0.151	1,2	8.07	88 RA	KB1	5	0.124	1
7.88	92 U	LY2	1	0.605	1,2,3	8.07	80 HG	KB3	4	0.155	1
7.88	89 AC	KB1	5	0.121	1	8.07	79 AU	KB2	4	0.155	1,3
7.89	76 OS	KA2	3	0.202	1,2,3	8.07	87 FR	KB2	5	0.124	1
7.89	63 EU	KA2	2	0.303	1,2,3	8.07	42 MO	KB4	1	0.620	2
7.89	71 LU	KB1	3	0.202	1,2,3	8.09	97 BK	LB1	1	0.621	1
7.92	85 AT	KA1	4	0.152	1	8.09	42 MO	KB2	1	0.621	1,2,3
7.92	59 PR	KB1	2	0.304	1,2,3	8.13	75 RE	KA2	3	0.208	1,2,3
7.93	71 LU	KB3	3	0.203	1,2	8.13	84 PO	KA1	4	0.156	1
7.93	75 RE	KA1	3	0.203	1,2,3	8.13	91 PA	LY2	1	0.624	1,2,3
7.94	95 AM	KA2	5	0.122	1	8.14	94 PU	KA2	5	0.125	1
7.94	59 PR	KB3	2	0.305	1,2	8.16	70 YB	KB3	3	0.209	1,2
7.95	90 TH	LY4	1	0.611	1,2	8.16	74 W	KA1	3	0.209	1,2,3
7.97	70 YB	KB2	3	0.204	1,2,3	8.16	70 YB	KB1	3	0.209	1,2,3
7.97	86 RN	KA2	4	0.153	1	8.16	42 MO	KB5	1	0.627	1
7.98	91 PA	LY6	1	0.613	1,2	8.18	85 AT	KA2	4	0.157	1
7.98	45 RH	KA1	1	0.613	1,2,3	8.18	62 SM	KA2	2	0.314	1,2,3
8.01	93 NP	KA1	5	0.123	1	8.20	92 U	KA1	5	0.126	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS						8.20 TO 8.59					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
8.20	69 TM	K82	3	0.210	1	8.40	91 PA	KA1	5	0.129	1
8.23	58 CE	K81	2	0.316	1,2,3	8.40	73 TA	KA1	3	0.215	1,2,3
8.23	58 CE	K83	2	0.316	1,2	8.40	69 TM	K81	3	0.215	1,2,3
8.23	90 TH	LY6	1	0.632	1,2	8.42	44 RU	KA2	1	0.647	1,2,3
8.23	42 MO	K81	1	0.632	1,2,3	8.44	69 TM	K83	3	0.216	1,2
8.23	79 AU	K85	4	0.158	1	8.45	88 RA	LY4	1	0.649	1,2
8.24	42 MO	K83	1	0.633	1,2	8.46	61 PM	KA2	2	0.325	1,2,3
8.25	91 PA	LY1	1	0.634	1,2,3	8.48	68 ER	K82	3	0.217	1,2,3
8.27	86 RN	K82	5	0.127	1	8.49	78 PT	K85	4	0.163	1
8.27	92 U	LY5	1	0.635	1,2	8.49	57 LA	K85	2	0.326	1
8.27	87 FR	K81	5	0.127	1	8.49	77 IR	K84	4	0.163	1,2
8.28	90 TH	LY3	1	0.636	1,2,3	8.50	90 TH	LY1	1	0.653	1,2,3
8.28	79 AU	K81	4	0.159	1,2,3	8.50	98 CF	LB2	1	0.653	1
8.28	78 PT	K82	4	0.159	1,3	8.52	41 NB	K82	1	0.654	1,2,3
8.28	78 PT	K84	4	0.159	1,2	8.53	92 U	KA2	5	0.131	1,2,3
8.32	96 CM	LB1	1	0.639	1	8.53	86 RN	K81	5	0.131	1
8.33	79 AU	K83	4	0.160	1,2	8.53	85 AT	K82	5	0.131	1
8.33	57 LA	K82	2	0.320	1,2,3	8.53	91 PA	LY5	1	0.655	1,2
8.33	93 NP	KA2	5	0.128	1	8.54	78 PT	K83	4	0.164	1,2
8.36	90 TH	LY2	1	0.642	1,2,3	8.54	77 IR	K82	4	0.164	1,3
8.36	74 W	KA2	3	0.214	1,2,3	8.54	57 LA	K81	2	0.328	1,2,3
8.36	61 PM	KA1	2	0.321	1,2,3	8.54	78 PT	K81	4	0.164	1,2,3
8.37	44 RU	KA1	1	0.643	1,2,3	8.57	95 AM	LB1	1	0.658	1,3
8.39	83 B1	KA1	4	0.161	1,2,3	8.57	57 LA	K83	2	0.329	1,2
8.39	84 PO	KA2	4	0.161	1	8.59	73 TA	KA2	3	0.220	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS							8.59 TO 9.06					
ANGLE	ELEM	LIVE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF
8.59	41 NB	KB5	1	0.660	1		8.80	77 IR	KB3	4	0.169	1,2
8.59	82 PB	KA1	4	0.165	1,2,3		8.80	56 BA	KB5	2	0.338	1
8.65	60 ND	KA1	2	0.332	1,2,3		8.80	76 OS	KB2	4	0.169	1,3
8.65	83 BI	KA2	4	0.166	1,2,3		8.83	94 PU	LB1	1	0.678	1
8.66	90 TH	KA1	5	0.133	1,2,3		8.86	81 TL	KA1	4	0.170	1,2,3
8.67	56 BA	KB2	2	0.333	1,2,3		8.86	89 AC	KA1	5	0.136	1
8.67	41 NB	KB3	1	0.666	1,2		8.86	82 PB	KA2	4	0.170	1,2,3
8.67	72 HF	KA1	3	0.222	1,2,3		8.87	72 HF	KA2	3	0.227	1,2,3
8.67	41 NB	KB1	1	0.666	1,2,3		8.87	92 U	LB9	1	0.681	1,2
8.70	77 IR	KB5	4	0.167	1		8.88	88 RA	LY2	1	0.682	1,2,3
8.71	68 ER	KB1	3	0.223	1,2,3		8.88	56 BA	KB3	2	0.341	1,2
8.71	68 ER	KB3	3	0.223	1,2		8.88	56 BA	KB1	2	0.341	1,2,3
8.71	97 BK	LB2	1	0.669	1		8.92	96 CM	LB2	1	0.685	1
8.72	91 PA	KA2	5	0.134	1		8.95	71 LU	KA1	3	0.229	1,2,3
8.72	85 AT	KB1	5	0.134	1		8.95	92 U	LB10	1	0.687	1,2
8.72	84 PO	KB2	5	0.134	1		8.96	59 PR	KA1	2	0.344	1,2,3
8.75	60 ND	KA2	2	0.336	1,2,3		8.99	90 TH	KA2	5	0.138	1,2,3
8.75	67 HO	KB2	3	0.224	1		8.99	83 BI	KB2	5	0.138	1,3
8.76	88 RA	LY6	1	0.673	1,2		8.99	67 HO	KB1	3	0.230	1
8.76	43 TC	KA1	1	0.673	2,3		8.99	40 ZR	KB2	1	0.690	1,2,3
8.78	89 AC	LY1	1	0.674	1		8.99	84 PO	KB1	5	0.138	1
8.79	90 TH	LY5	1	0.675	1,2		9.01	55 CS	KB2	2	0.346	1,2,3
8.79	88 RA	LY3	1	0.675	1,2,3		9.05	88 RA	LY1	1	0.695	1,2,3
8.80	77 IR	KB1	4	0.169	1,2,3		9.06	75 RE	KB2	4	0.174	1,3
8.80	43 TC	KA2	1	0.576	2,3		9.06	40 ZR	KB5	1	0.696	1

EDDT CRYSTAL, D# 4.404 ANGSTROMS						9.06 TO 9.51					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
9.06	76 OS	KB1	4	0.174	1,2,3	9.30	66 DY	KB3	3	0.238	1,2
9.06	66 DY	KB2	3	0.232	1,2,3	9.30	58 CE	KA1	2	0.357	1,2,3
9.06	76 OS	KB3	4	0.174	1,2	9.31	83 BI	KB3	5	0.143	1,2
9.09	59 PR	KA2	2	0.349	1,2,3	9.32	87 FR	LY1	1	0.716	1,2,3
9.09	93 NP	LB1	1	0.698	1,2,3	9.32	74 W	KB4	4	0.179	1
9.12	88 RA	KA1	5	0.140	1	9.32	75 RE	KB3	4	0.179	1,2
9.12	80 HG	KA1	4	0.175	1	9.32	74 W	KB2	4	0.179	1,2,3
9.12	81 TL	KA2	4	0.175	1,2,3	9.32	75 RE	KB1	4	0.179	1,2,3
9.13	95 AM	LB2	1	0.701	1,3	9.34	88 RA	LY5	1	0.717	1,2
9.13	91 PA	LB9	1	0.701	1,2	9.35	94 PU	LB2	1	0.718	1
9.14	71 LU	KA2	3	0.234	1,2,3	9.38	65 TB	KB2	3	0.240	1,2,3
9.14	40 ZR	KB3	1	0.702	1,2	9.38	80 HG	KA2	4	0.180	1
9.14	40 ZR	KB1	1	0.702	1,2,3	9.38	87 FR	KA1	5	0.144	1
9.18	82 PB	KB4	5	0.141	1,2	9.38	54 XE	KB2	2	0.360	1,2,3
9.18	89 AC	KA2	5	0.141	1	9.38	92 U	LB1	1	0.720	1,2,3
9.22	91 PA	LB10	1	0.708	1,2	9.38	79 AU	KA1	4	0.180	1,2,3
9.22	55 CS	KB1	2	0.354	1,2,3	9.42	70 YB	KA2	3	0.241	1,2,3
9.23	42 MO	KA1	1	0.709	1,2,3	9.42	90 TH	LB9	1	0.723	1,2
9.25	55 CS	KB3	2	0.355	1,2	9.43	58 CE	KA2	2	0.362	1,2,3
9.25	82 PB	KB2	5	0.142	1,3	9.44	88 RA	KA2	5	0.145	1
9.25	92 U	LB3	1	0.710	1,2,3	9.44	82 PB	KB5	5	0.145	1
9.25	83 BI	KB1	5	0.142	1,2,3	9.46	92 U	LB5	1	0.726	1,2
9.26	66 DY	KB1	3	0.237	1,2,3	9.47	39 Y	KB4	1	0.727	2
9.26	70 YB	KA1	3	0.237	1,2,3	9.49	39 Y	KB2	1	0.729	1,2,3
9.29	42 MO	KA2	1	0.713	1,2,3	9.51	82 PB	KB1	5	0.146	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS						9.51 TO 9.95					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
9.51	81 TL	KB2	5	0.146	1	9.70	87 FR	KA2	5	0.149	1
9.51	90 TH	LB10	1	0.730	1,2	9.70	91 PA	LB5	1	0.745	1,2
9.53	69 TM	KA1	3	0.244	1,2,3	9.72	41 NB	KA1	1	0.746	1,2,3
9.53	91 PA	LB3	1	0.732	1,2,3	9.73	69 TM	KA2	3	0.249	1,2,3
9.53	74 W	KB5	4	0.183	1	9.74	92 U	LB4	1	0.748	1,2,3
9.55	39 Y	KB5	1	0.734	1	9.77	81 TL	KB1	5	0.150	1,2,3
9.57	82 PB	KB3	5	0.147	1	9.77	53 I	KB2	2	0.375	1,2,3
9.59	92 U	LB7	1	0.736	1,2	9.77	41 NB	KA2	1	0.750	1,2,3
9.59	74 W	KB1	4	0.184	1,2,3	9.77	80 HG	KB2	5	0.150	1
9.59	73 TA	KB4	4	0.184	1	9.77	57 LA	KA2	2	0.375	1,2,3
9.59	93 NP	LB2	1	0.736	1,2,3	9.83	91 PA	LB7	1	0.755	1,2
9.59	54 XE	KB1	2	0.368	1,2,3	9.83	90 TH	LB3	1	0.755	1,2,3
9.61	65 TB	KB1	3	0.246	1,2,3	9.83	92 U	LB2	1	0.755	1,2,3
9.61	65 TB	KB3	3	0.246	1,2	9.83	81 TL	KB3	5	0.151	1,2
9.63	86 RN	LY1	1	0.739	1	9.85	73 TA	KB5	4	0.189	1
9.64	86 RN	KA1	5	0.148	1	9.85	68 ER	KA1	3	0.252	1,2,3
9.64	74 W	KB3	4	0.185	1,2	9.90	73 TA	KB1	4	0.190	1,2,3
9.64	79 AU	KA2	4	0.185	1,2,3	9.90	85 AT	KA1	5	0.152	1
9.64	73 TA	KB2	4	0.185	1,2,3	9.90	78 PT	KA2	4	0.190	1,2,3
9.65	39 Y	KB3	1	0.741	1,2	9.91	83 BI	LY4	1	0.761	1,2
9.65	39 Y	KB1	1	0.741	1,2,3	9.93	64 GD	KB1	3	0.254	1,2,3
9.66	91 PA	LB1	1	0.742	1,2,3	9.94	85 AT	LY1	1	0.763	1
9.66	57 LA	KA1	2	0.371	1,2,3	9.95	72 HF	KB2	4	0.191	1,2,3
9.69	64 GD	KB2	3	0.248	1,2,3	9.95	77 IR	KA1	4	0.191	1,2,3
9.69	78 PT	KA1	4	0.186	1,2,3	9.95	84 PO	LY6	1	0.764	1,2

EDDT CRYSTAL, D# 4.404 ANGSTROMS							9.95 TO 10.36						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
9.95	73 TA	KB3	4	0.191	1,2		10.20	38 SR	KB3	1	0.783	1,2	
9.95	84 PO	LY3	1	0.764	1,2,3		10.20	38 SR	KB1	1	0.783	1,2,3	
9.96	64 GD	KB3	3	0.255	1,2		10.20	67 HO	KA1	3	0.261	1,2,3	
9.96	90 TH	LB5	1	0.765	1,2		10.21	72 HF	KB1	4	0.196	1,2,3	
9.96	86 RN	KA2	5	0.153	1		10.21	77 IR	KA2	4	0.196	1,2,3	
9.96	90 TH	LB1	1	0.765	1,2,3		10.21	72 HF	KB3	4	0.196	1,2	
10.00	53 I	KB1	2	0.384	1,2,3		10.23	85 AT	KA2	5	0.157	1	
10.02	88 RA	LB9	1	0.769	1,2		10.24	82 PB	LY4	1	0.786	1	
10.03	79 AU	KB4	5	0.154	1,2		10.24	40 ZR	KA1	1	0.786	1,2,3	
10.03	56 BA	KA1	2	0.385	1,2,3		10.25	84 PO	LY1	1	0.787	1,2,3	
10.03	80 HG	KB1	5	0.154	1		10.27	71 LU	KB2	4	0.197	1,2,3	
10.03	91 PA	LB4	1	0.770	1,2,3		10.27	92 U	LB6	1	0.788	1,2,3	
10.03	53 I	KB3	2	0.385	1,2		10.27	76 OS	KA1	4	0.197	1,2,3	
10.04	68 ER	KA2	3	0.257	1,2,3		10.28	83 BI	LY3	1	0.789	1,2,3	
10.04	38 SR	KB2	1	0.771	1,2,3		10.28	89 AC	LB1	1	0.789	1	
10.04	63 EU	KB2	3	0.257	1,2,3		10.29	79 AU	KB5	5	0.158	1	
10.08	90 TH	LB7	1	0.774	1,2		10.29	40 ZR	KA2	1	0.790	1,2,3	
10.08	91 PA	LB2	1	0.774	1,2,3		10.29	83 BI	LY6	1	0.790	1,2	
10.10	88 RA	LB10	1	0.775	1,2		10.32	63 EU	KB3	3	0.264	1,2	
10.10	80 HG	KB3	5	0.155	1		10.32	98 CF	LA1	1	0.792	1	
10.10	38 SR	KB5	1	0.775	1		10.32	63 EU	KB1	3	0.264	1,2,3	
10.10	79 AU	KB2	5	0.155	1,3		10.33	90 TH	LB4	1	0.793	1,2,3	
10.16	56 BA	KA2	2	0.390	1,2,3		10.34	90 TH	LB2	1	0.794	1,2,3	
10.16	84 PO	KA1	5	0.156	1		10.36	78 PT	KB4	5	0.159	1,2	
10.19	52 TE	KB2	2	0.391	1,2,3		10.36	78 PT	KB2	5	0.159	1,3	

EDDT CRYSTAL, D# 4.404 ANGSTROMS						10.36 TO 10.80					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
10.36	79 AU	KB1	5	0.159	1,2,3	10.60	89 AC	LB2	1	0.814	1
10.37	83 BI	LY2	1	0.796	1,2,3	10.62	82 PB	LY3	1	0.815	1,2,3
10.40	67 HO	KA2	3	0.266	1,2,3	10.62	78 PT	KB5	5	0.163	1
10.40	62 SM	KB2	3	0.266	1,2,3	10.62	77 IR	KB4	5	0.163	1,2
10.42	79 AU	KB3	5	0.160	1,2	10.63	51 SB	KB2	2	0.408	1,2,3
10.42	55 CS	KA1	2	0.400	1,2,3	10.63	70 YB	KB2	4	0.204	1,2,3
10.42	52 TE	KB1	2	0.400	1,2,3	10.63	88 RA	LB7	1	0.816	1,2
10.45	52 TE	KB3	2	0.401	1,2	10.63	37 RB	KB2	1	0.816	1,2,3
10.46	88 RA	LB3	1	0.803	1,2,3	10.64	82 PB	LY6	1	0.817	1,2
10.47	98 CF	LA2	1	0.804	1	10.67	62 SM	KB1	3	0.273	1,2,3
10.49	83 BI	KA1	5	0.161	1,2,3	10.68	77 IR	KB2	5	0.164	1,3
10.49	84 PO	KA2	5	0.161	1	10.68	78 PT	KB1	5	0.164	1,2,3
10.49	92 U	LN	1	0.805	1,2,3	10.68	78 PT	KB3	5	0.164	1,2
10.50	88 RA	LB5	1	0.806	1,2	10.70	82 PB	LY2	1	0.821	1,2,3
10.55	76 OS	KA2	4	0.202	1,2,3	10.71	37 RB	KB5	1	0.822	1
10.55	7 LU	KB1	4	0.202	1,2,3	10.71	66 DY	KA2	3	0.274	1,2,3
10.55	9 PA	LB6	1	0.808	1,2,3	10.71	62 SM	KB3	3	0.274	1,2
10.55	66 DY	KA1	3	0.270	1,2,3	10.71	97 BK	LA2	1	0.822	1
10.55	97 BK	LA1	1	0.810	1	10.75	82 PB	KA1	5	0.165	1,2,3
10.55	55 CS	KA2	2	0.405	1,2,3	10.79	61 PM	KB2	3	0.276	1
10.56	75 RE	KA1	4	0.203	1,2,3	10.79	90 TH	LB6	1	0.828	1,2,3
10.56	71 LU	KB3	4	0.203	1,2	10.79	51 SB	KB5	2	0.414	1
10.56	81 TL	LY4	1	0.812	1,2	10.80	37 RB	KB3	1	0.829	1,2
10.59	83 BI	LY1	1	0.813	1,2,3	10.80	39 Y	KA1	1	0.829	1,2,3
10.60	88 RA	LB1	1	0.814	1,2,3	10.80	37 RB	KB1	1	0.829	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS						10.80 TO 11.28					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
10.80	96 CM	LA1	1	0.829	1	11.01	76 OS	KB2	5	0.169	1,3
10.80	91 PA	LN	1	0.829	1,2,3	11.01	77 IR	KB3	5	0.169	1,2
10.81	83 BI	KA2	5	0.166	1,2,3	11.02	61 PM	KB1	3	0.282	1,2,3
10.84	75 RE	KA2	4	0.208	1,2,3	11.05	95 AM	LA1	1	0.848	1,3
10.84	54 XE	KA1	2	0.416	1,2,3	11.05	81 TL	LY2	1	0.848	1,2,3
10.85	39 Y	KA2	1	0.833	1,2,3	11.06	61 PM	KB3	3	0.283	2
10.87	51 SB	KB1	2	0.417	1,2,3	11.06	65 TB	KA2	3	0.283	1,2,3
10.88	77 IR	KB5	5	0.167	1	11.08	82 PB	KA2	5	0.170	1,2,3
10.88	88 RA	LB2	1	0.835	1,2,3	11.08	81 TL	KA1	5	0.170	1,2,3
10.89	51 SB	KB3	2	0.418	1,2	11.10	50 SN	KB2	2	0.426	1,2,3
10.89	70 YB	KB1	4	0.209	1,2,3	11.13	90 TH	LN	1	0.854	1,2,3
10.89	74 W	KA1	4	0.209	1,2,3	11.15	74 W	KA2	4	0.214	1,2,3
10.89	70 YB	KB3	4	0.209	1,2	11.18	87 FR	LB2	1	0.858	1,2,3
10.91	65 TB	KA1	3	0.279	1,2,3	11.18	60 ND	KB2	3	0.286	1,2,3
10.93	83 BI	LY5	1	0.839	1,2	11.21	95 AM	LA2	1	0.860	1,3
10.93	80 HG	LY4	1	0.839	1,2	11.21	73 TA	KA1	4	0.215	1,2,3
10.94	69 TM	KB2	4	0.210	1	11.21	69 TM	KB1	4	0.215	1,2,3
10.94	87 FR	LB1	1	0.840	1,2,3	11.26	50 SN	KB5	2	0.432	1
10.94	82 PB	LY1	1	0.840	1,2,3	11.26	64 GD	KA1	3	0.288	1,2,3
10.94	54 XE	KA2	2	0.420	1,2,3	11.26	69 TM	KB3	4	0.216	1,2
10.96	88 RA	LB4	1	0.841	1,2,3	11.28	82 PB	LY5	1	0.866	1,2
10.96	81 TL	LY3	1	0.841	1,2,3	11.28	36 KR	KB4	1	0.866	2
10.96	96 CM	LA2	1	0.841	1	11.28	36 KR	KB2	1	0.866	1,2,3
11.00	81 TL	LY6	1	0.844	1,2	11.28	86 RN	LB1	1	0.866	1
11.01	77 IR	KB1	5	0.169	1,2,3	11.28	53 I	KA1	2	0.433	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS						11.31 TO 11.76					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
11.31	94 PU	LA1	1	0.868	1	11.49	60 ND	KB3	3	0.294	1,2
11.31	6E ER	KB2	4	0.217	1,2,3	11.57	72 HF	KA1	4	0.222	1,2,3
11.31	81 TL	LY1	1	0.868	1,2,3	11.59	93 NP	LA1	1	0.889	1,2,3
11.32	8E HG	LY3	1	0.869	1,2,3	11.60	49 IN	KB2	2	0.445	1,2,3
11.34	7E RE	KB2	5	0.174	1,3	11.61	59 PR	KB2	3	0.297	1,2,3
11.34	7E OS	KB1	5	0.174	1,2,3	11.63	68 ER	KB1	4	0.223	1,2,3
11.34	5C SN	KB1	2	0.435	1,2,3	11.63	68 ER	KB3	4	0.223	1,2
11.34	7E OS	KB3	5	0.174	1,2	11.65	85 AT	LB1	1	0.894	1
11.35	8E RA	LB6	1	0.871	1,2,3	11.66	75 RE	KB1	5	0.179	1,2,3
11.35	3E KR	KB5	1	0.871	1,2	11.66	81 TL	LY5	1	0.895	1,2
11.36	5C SN	KB3	2	0.436	1,2	11.66	74 W	KB2	5	0.179	1,2,3
11.38	8C HG	LY6	1	0.873	1,2	11.66	74 W	KB4	5	0.179	1
11.40	3E SR	KA1	1	0.875	1,2,3	11.66	75 RE	KB3	5	0.179	1,2
11.40	8C HG	LY2	1	0.875	1,2,3	11.68	67 HO	KB2	4	0.224	1
11.40	81 TL	KA2	5	0.175	1,2,3	11.69	78 PT	LY4	1	0.397	1,2
11.40	8C HG	KA1	5	0.175	1	11.69	63 EU	KA1	3	0.299	1,2,3
11.42	5S I	KA2	2	0.438	1,2,3	11.69	80 HG	LY1	1	0.897	1,2,3
11.44	3E KR	KB1	1	0.878	1,2,3	11.70	79 AU	LY3	1	0.398	1,2,3
11.45	3E SR	KA2	1	0.879	1,2,3	11.70	83 BI	LB9	1	0.398	1,2
11.45	64 GD	KA2	3	0.253	1,2,3	11.72	84 PO	LB5	1	0.399	1,2
11.45	3E KR	KB3	1	0.879	1,2	11.73	80 HG	KA2	5	0.180	1
11.45	60 ND	KB1	3	0.253	1,2,3	11.73	79 AU	KA1	5	0.180	1,2,3
11.47	73 TA	KA2	4	0.220	1,2,3	11.74	93 NP	LA2	1	0.901	1
11.47	94 PU	LA2	1	0.880	1	11.76	49 IN	KB5	2	0.451	1
11.48	8E RN	LB2	1	0.881	1	11.76	52 TE	KA1	2	0.451	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS						11.77 TO 12.25					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
11.77	79 AU	LY6	1	0.903	1,2	12.06	79 AU	KA2	5	0.185	1,2,3
11.78	79 AU	LY2	1	0.904	1,2,3	12.06	73 TA	KB2	5	0.185	1,2,3
11.79	83 BI	LB10	1	0.905	1,2	12.06	35 BR	KB5	1	0.925	1,2
11.79	85 AT	LB2	1	0.905	1	12.07	83 BI	LB5	1	0.926	1,2
11.82	88 RA	LN	1	0.907	1,2,3	12.07	37 RB	KA1	1	0.926	1,2,3
11.83	72 HF	KA2	4	0.227	1,2,3	12.08	82 PB	LB9	1	0.927	1,2
11.85	63 EU	KA2	3	0.303	1,2,3	12.08	77 IR	LY4	1	0.927	1,2
11.85	84 PO	LB3	1	0.909	1,2,3	12.08	62 SM	KA1	3	0.309	1,2,3
11.86	49 IN	KB1	2	0.455	1,2,3	12.08	79 AU	LY1	1	0.927	1,2,3
11.86	49 IN	KB3	2	0.455	1,2	12.10	78 PT	LY3	1	0.928	1,2,3
11.87	92 U	LA1	1	0.911	1,2,3	12.10	66 DY	KB2	4	0.232	1,2,3
11.89	52 TE	KA2	2	0.456	1,2,3	12.11	84 PO	LB2	1	0.929	1,2,3
11.89	59 PR	KB1	3	0.304	1,2,3	12.12	48 CD	KB2	2	0.465	1,2,3
11.93	74 W	KB5	5	0.183	1	12.12	78 PT	KA1	5	0.186	1,2,3
11.93	59 PR	KB3	3	0.305	1,2	12.12	37 RB	KA2	1	0.930	1,2,3
11.94	71 LU	KA1	4	0.229	1,2,3	12.16	91 PA	LA1	1	0.933	1,2,3
11.99	67 HO	KB1	4	0.230	1	12.16	35 BR	KB1	1	0.933	1,2,3
11.99	73 TA	KB4	5	0.184	1	12.16	35 BR	KB3	1	0.933	1,2
11.99	74 W	KB1	5	0.184	1,2,3	12.17	78 PT	LY2	1	0.934	1,2,3
12.00	35 BR	KB2	1	0.921	1,2,3	12.17	78 PT	LY6	1	0.934	1,2
12.02	84 PO	LB1	1	0.922	1,2,3	12.17	82 PB	LB10	1	0.934	1,2
12.02	92 U	LA2	1	0.922	1,2,3	12.19	83 BI	LB7	1	0.935	1,2
12.04	58 CE	KB2	3	0.308	1,2,3	12.20	71 LU	KA2	4	0.234	1,2,3
12.04	80 HG	LY5	1	0.924	1,2	12.24	83 BI	LB3	1	0.939	1,2,3
12.06	74 W	KB3	5	0.185	1,2	12.25	51 SB	KA1	2	0.470	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS						12.28 TO 12.80					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
12.28	62 SM	KA2	3	0.314	1,2,3	12.50	76 OS	LY4	1	0.959	1,2
12.32	91 PA	LA2	1	0.945	1,2,3	12.51	57 LA	KB2	3	0.320	1,2,3
12.32	73 TA	KB5	5	0.189	1	12.51	65 TB	KB2	4	0.240	1,2,3
12.34	84 PO	LB4	1	0.947	1,2,3	12.54	82 PB	LB7	1	0.962	1,2
12.36	70 YB	KA1	4	0.237	1,2,3	12.55	61 PM	KA1	3	0.321	1,2,3
12.36	65 DY	KB1	4	0.237	1,2,3	12.57	81 TL	LB10	1	0.964	1,2
12.36	53 CE	KB1	3	0.316	1,2,3	12.57	70 YB	KA2	4	0.241	1,2,3
12.36	53 CE	KB3	3	0.316	1,2	12.58	77 IR	LY2	1	0.965	1,2,3
12.38	73 PT	KA2	5	0.190	1,2,3	12.61	84 PO	LB6	1	0.967	1,2,3
12.38	54 SB	KA2	2	0.475	1,2,3	12.61	77 IR	LY6	1	0.967	1,2
12.38	73 TA	KB1	5	0.190	1,2,3	12.62	90 TH	LA2	1	0.968	1,2,3
12.38	48 CD	KB1	2	0.475	1,2,3	12.63	82 PB	LB3	1	0.969	1,2,3
12.41	83 BI	LB1	1	0.952	1,2,3	12.70	47 AG	KB2	2	0.487	1,2,3
12.41	66 DY	KB3	4	0.238	1,2	12.71	61 PM	KA2	3	0.325	1,2,3
12.41	48 CD	KB3	2	0.476	1,2	12.72	69 TM	KA1	4	0.244	1,2,3
12.42	82 PB	LB5	1	0.953	1,2	12.74	83 BI	LB4	1	0.977	1,2,3
12.45	83 BI	LB2	1	0.955	1,2,3	12.75	57 LA	KB5	3	0.326	1
12.45	72 HF	KB2	5	0.191	1,2,3	12.78	34 SE	KB2	1	0.980	1,2,3
12.45	73 TA	KB3	5	0.191	1,2	12.78	72 HF	KB1	5	0.196	1,2,3
12.45	77 IR	KA1	5	0.191	1,2,3	12.78	36 KR	KA1	1	0.980	1,2,3
12.46	79 AU	LY5	1	0.956	1,2	12.78	89 AC	LA1	1	0.980	1
12.46	90 TH	LA1	1	0.956	1,2,3	12.78	77 IR	KA2	5	0.196	1,2,3
12.47	81 TL	LB9	1	0.957	1,2	12.78	72 HF	KB3	5	0.196	1,2
12.49	78 PT	LY1	1	0.958	1,2,3	12.79	81 TL	LB5	1	0.981	1,2
12.50	77 IR	LY3	1	0.959	1,2,3	12.80	50 SN	KA1	2	0.491	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS						12.80 TO 13.30					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
12.80	82 PB	LB1	1	0.982	1,2,3	12.99	69 TM	KA2	4	0.249	1,2,3
12.81	82 PB	LB2	1	0.983	1,2,3	12.99	47 AG	KB3	2	0.498	1,2
12.83	36 KR	KA2	1	0.984	1,2,3	12.99	60 ND	KA1	3	0.332	1,2,3
12.83	57 LA	KB1	3	0.328	1,2,3	13.01	76 OS	LY2	1	0.998	1,2,3
12.83	65 TB	KB1	4	0.246	1,2,3	13.02	56 BA	KB2	3	0.333	1,2,3
12.83	65 TB	KB3	4	0.246	1,2	13.05	76 OS	LY6	1	1.001	1,2
12.83	34 SE	KB5	1	0.984	1,2	13.05	81 TL	LB3	1	1.001	1,2,3
12.84	71 LU	KB2	5	0.197	1,2,3	13.10	88 RA	LA1	1	1.005	1,2,3
12.84	76 OS	KA1	5	0.197	1,2,3	13.13	82 PB	LB4	1	1.007	1,2,3
12.85	47 AG	KB5	2	0.493	1	13.14	60 ND	KA2	3	0.336	1,2,3
12.85	80 HG	LB9	1	0.986	1,2	13.14	68 ER	KA1	4	0.252	1,2,3
12.87	57 LA	KB3	3	0.329	1,2	13.17	81 TL	LB2	1	1.010	1,2,3
12.88	78 PT	LY5	1	0.988	1,2	13.17	76 OS	KA2	5	0.202	1,2,3
12.91	81 TL	LB7	1	0.990	1,2	13.17	71 LU	KB1	5	0.202	1,2,3
12.91	50 SN	KA2	2	0.495	1,2,3	13.17	80 HG	LB5	1	1.010	1,2
12.92	77 IR	LY1	1	0.991	1,2,3	13.22	56 BA	KB5	3	0.338	1
12.93	76 OS	LY3	1	0.992	1,2,3	13.23	71 LU	KB3	5	0.203	1,2
12.93	89 AC	LA2	1	0.992	1	13.23	75 RE	KA1	5	0.203	1,2,3
12.93	34 SE	KB1	1	0.992	1,2,3	13.23	81 TL	LB1	1	1.015	1,2,3
12.93	64 GD	KB2	4	0.248	1,2,3	13.25	88 RA	LA2	1	1.016	1,2,3
12.93	75 RE	LY4	1	0.992	1,2	13.25	64 GD	KB1	4	0.254	1,2,3
12.95	83 BI	LB6	1	0.993	1,2,3	13.29	80 HG	LB7	1	1.019	1,2
12.95	34 SE	KB3	1	0.993	1,2	13.30	70 YB	KB2	5	0.204	1,2,3
12.96	47 AG	KB1	2	0.497	1,2,3	13.30	46 PD	KB2	2	0.510	1,2,3
12.99	80 HG	LB10	1	0.996	1,2	13.30	64 GD	KB3	4	0.255	1,2

EDDT CRYSTAL, D# 4.404 ANGSTROMS						13.31 TO 13.82					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
13.31	82 PB	LB6	1	1.021	1,2,3	13.56	35 BR	KA1	1	1.040	1,2,3
13.31	79 AU	LB9	1	1.021	1,2	13.59	87 FR	LA2	1	1.042	1
13.33	77 IR	LY5	1	1.022	1,2	13.59	46 PD	KB3	2	0.521	1,2
13.34	56 BA	KB1	3	0.341	1,2,3	13.59	46 PD	KB1	2	0.521	1,2,3
13.34	56 BA	KB3	3	0.341	1,2	13.61	67 HO	KA1	4	0.261	1,2,3
13.35	49 IN	KA1	2	0.512	1,2,3	13.61	35 BR	KA2	1	1.044	1,2,3
13.36	75 OS	LY1	1	1.025	1,2,3	13.63	70 YB	KB3	5	0.209	1,2
13.38	75 RE	LY3	1	1.026	1,2,3	13.63	33 AS	KB2	1	1.045	1,2,3
13.40	77 AU	LB10	1	1.028	1,2	13.63	74 W	KA1	5	0.209	1,2,3
13.40	69 ER	KA2	4	0.257	1,2,3	13.63	70 YB	KB1	5	0.209	1,2,3
13.40	63 EU	KB2	4	0.257	1,2,3	13.65	59 PR	KA2	3	0.349	1,2,3
13.40	74 W	LY4	1	1.028	1,2	13.68	80 HG	LB1	1	1.049	1,2,3
13.43	98 CF	LY1	2	0.515	1	13.68	33 AS	KB5	1	1.049	1,2
13.43	87 FR	LA1	1	1.030	1,2,3	13.69	69 TM	KB2	5	0.210	1
13.45	59 PR	KA1	3	0.344	1,2,3	13.69	81 TL	LB6	1	1.050	1,2,3
13.45	75 RE	LY2	1	1.032	1,2,3	13.69	79 AU	LB7	1	1.050	1,2
13.43	46 PD	KB5	2	0.517	1	13.74	78 PT	LB9	1	1.054	1,2
13.43	49 IN	KA2	2	0.517	1,2,3	13.77	63 EU	KB1	4	0.264	1,2,3
13.43	80 HG	LB3	1	1.034	1,2,3	13.77	63 EU	KB3	4	0.264	1,2
13.52	75 RE	LY6	1	1.037	1,2	13.78	86 RN	LA1	1	1.057	1
13.54	55 CS	KB2	3	0.346	1,2,3	13.78	76 OS	LY5	1	1.057	1,2
13.55	81 TL	LB4	1	1.039	1,2,3	13.78	33 AS	KB1	1	1.057	1,2,3
13.56	79 AU	LB5	1	1.040	1,2	13.80	33 AS	KB3	1	1.058	1,2
13.56	60 HG	LB2	1	1.040	1,2,3	13.81	83 BI	LN	1	1.059	1,2,3
13.56	75 RE	KA2	5	0.208	1,2,3	13.82	97 BK	LY1	2	0.530	1

EDDT CRYSTAL, D# 4.404 ANGSTROMS							13.84 TO 14.39						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
13.84	75 RE	LY1	1	1.061	1,2,3		14.09	66 DY	KA1	4	0.270	1,2,3	
13.85	74 W	LY3	1	1.062	1,2,3		14.09	80 HG	LB6	1	1.080	1,2,3	
13.85	55 CS	KB1	3	0.354	1,2,3		14.11	45 RH	KB5	2	0.541	1	
13.85	78 PT	LB10	1	1.062	1,2		14.11	78 PT	LB7	1	1.082	1,2	
13.88	62 SM	KB2	4	0.266	1,2,3		14.14	79 AU	LB1	1	1.084	1,2,3	
13.88	67 HO	KA2	4	0.266	1,2,3		14.15	85 AT	LA1	1	1.085	1	
13.89	55 CS	KB3	3	0.355	1,2		14.15	68 ER	KB2	5	0.217	1,2,3	
13.89	73 TA	LY4	1	1.065	1,2		14.16	58 CE	KA2	3	0.362	1,2,3	
13.92	92 U	LL	1	1.067	2,3		14.22	77 IR	LB9	1	1.090	1,2	
13.93	79 AU	LB3	1	1.068	1,2,3		14.23	91 PA	LL	1	1.091	1,2,3	
13.93	74 W	LY2	1	1.068	1,2,3		14.24	82 PB	LN	1	1.092	1,2,3	
13.94	86 RN	LA2	1	1.069	1		14.24	62 SM	KB1	4	0.273	1,2,3	
13.95	48 CD	KA1	2	0.535	1,2,3		14.24	45 RH	KB1	2	0.546	1,2,3	
13.95	79 AU	LB2	1	1.070	1,2,3		14.24	96 CM	LY1	2	0.546	1	
13.95	45 RH	KB2	2	0.535	1,2,3		14.24	45 RH	KB3	2	0.546	1,2	
13.95	74 W	KA2	5	0.214	1,2,3		14.27	75 RE	LY5	1	1.094	1,2	
13.97	58 CE	KA1	3	0.357	1,2,3		14.30	62 SM	KB3	4	0.274	1,2	
13.98	78 PT	LB5	1	1.072	1,2		14.30	66 DY	KA2	4	0.274	1,2,3	
13.98	80 HG	LB4	1	1.072	1,2,3		14.31	85 AT	LA2	1	1.097	1	
14.01	74 W	LY6	1	1.074	1,2		14.31	77 IR	LB10	1	1.097	1,2	
14.02	69 TM	KB1	5	0.215	1,2,3		14.33	74 W	LY1	1	1.099	1,2,3	
14.02	73 TA	KA1	5	0.215	1,2,3		14.33	73 TA	LY3	1	1.099	1,2,3	
14.06	48 CD	KA2	2	0.539	1,2,3		14.35	73 TA	KA2	5	0.220	1,2,3	
14.09	69 TM	KB3	5	0.216	1,2		14.38	78 PT	LB2	1	1.102	1,2,3	
14.09	54 XE	KB2	3	0.360	1,2,3		14.39	72 HF	LY4	1	1.103	1,2	

EDDT CRYSTAL, D# 4.404 ANGSTROMS						14.40 TO 14.93					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
14.40	54 XE	KB1	3	0.368	1,2,3	14.68	57 LA	KA2	3	0.375	1,2,3
14.40	78 PT	LB3	1	1.104	1,2,3	14.68	53 I	KB2	3	0.375	1,2,3
14.40	61 PM	KB2	4	0.276	1	14.69	76 OS	LB9	1	1.126	1,2
14.41	73 TA	LY2	1	1.105	1,2,3	14.69	84 PO	LA2	1	1.126	1,2,3
14.41	34 SE	KA1	1	1.105	1,2,3	14.72	47 AG	KA2	2	0.564	1,2,3
14.43	77 IR	LB5	1	1.106	1,2	14.72	81 TL	LN	1	1.128	1,2,3
14.44	79 AU	LB4	1	1.107	1,2,3	14.72	61 PM	KB1	4	0.282	1,2,3
14.47	34 SE	KA2	1	1.109	1,2,3	14.73	32 GE	KB1	1	1.129	1,2,3
14.48	72 HF	KA1	5	0.222	1,2,3	14.73	32 GE	KB3	1	1.129	1,2
14.49	79 AU	LB6	1	1.111	1,2,3	14.77	61 PM	KB3	4	0.283	2
14.52	57 LA	KA1	3	0.371	1,2,3	14.77	74 W	LY5	1	1.132	1,2
14.53	84 PO	LA1	1	1.114	1,2,3	14.77	65 TB	KA2	4	0.283	1,2,3
14.53	73 TA	LY6	1	1.114	1,2	14.78	76 OS	LB10	1	1.133	1,2
14.54	68 ER	KB1	5	0.223	1,2,3	14.81	72 HF	KA2	5	0.227	1,2,3
14.54	90 TH	LL	1	1.115	1,2,3	14.81	77 IR	LB2	1	1.135	1,2,3
14.54	77 IR	LB7	1	1.115	1,2	14.82	44 RU	KB5	2	0.568	1
14.54	68 ER	KB3	5	0.223	1,2	14.85	72 HF	LY3	1	1.138	1,2,3
14.56	65 TB	KA1	4	0.279	1,2,3	14.85	73 TA	LY1	1	1.138	1,2,3
14.57	32 GE	KB2	1	1.117	1,2,3	14.87	76 OS	LB5	1	1.140	1,2
14.58	47 AG	KA1	2	0.559	1,2,3	14.89	77 IR	LB3	1	1.141	1,2,3
14.60	32 GE	KB5	1	1.119	1,2	14.90	78 PT	LB4	1	1.142	1,2,3
14.61	67 HO	KB2	5	0.224	1	14.91	71 LU	LY4	1	1.143	1
14.61	78 PT	LB1	1	1.120	1,2,3	14.93	60 ND	KB2	4	0.286	1,2,3
14.66	95 AM	LY1	2	0.562	1,3	14.93	44 RU	KB1	2	0.572	1,2,3
14.66	44 RU	KB2	2	0.562	1,2,3	14.93	83 BI	LA1	1	1.144	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS						14.93 TO 15.53					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
14.93	72 HF	LY2	1	1.144	1,2,3	15.31	73 TA	LY5	1	1.173	1,2
14.93	78 PT	LB6	1	1.144	1,2,3	15.31	52 TE	KB2	3	0.391	1,2,3
14.94	71 LU	KA1	5	0.229	1,2,3	15.33	82 PB	LA1	1	1.175	1,2,3
14.95	44 RU	KB3	2	0.573	1,2	15.35	60 ND	KB3	4	0.294	1,2
14.99	76 OS	LB7	1	1.149	1,2	15.35	33 AS	KA1	1	1.176	1,2,3
15.00	67 HO	KB1	5	0.230	1	15.36	75 RE	LB5	1	1.177	1,2
15.03	53 I	KB1	3	0.384	1,2,3	15.37	77 IR	LB6	1	1.178	1,2,3
15.03	64 GD	KA1	4	0.288	1,2,3	15.38	71 LU	LY3	1	1.179	1,2,3
15.07	83 BI	LA2	1	1.155	1,2,3	15.38	72 HF	LY1	1	1.179	1,2,3
15.07	53 I	KB3	3	0.385	1,2	15.40	43 TC	KB2	2	0.590	1
15.07	56 BA	KA1	3	0.385	1,2,3	15.40	43 TC	KB4	2	0.590	1
15.07	72 HF	LY6	1	1.155	1,2	15.40	76 OS	LB3	1	1.180	1,2,3
15.11	94 PU	LY1	2	0.579	1	15.40	46 PD	KA2	2	0.590	1,2,3
15.11	77 IR	LB1	1	1.158	1,2,3	15.40	33 AS	KA2	1	1.180	1,2,3
15.14	66 DY	KB2	5	0.232	1,2,3	15.40	77 IR	LB4	1	1.180	1,2,3
15.19	80 HG	LN	1	1.164	1,2,3	15.46	70 YB	KA1	5	0.237	1,2,3
15.20	75 RE	LB9	1	1.165	1,2	15.46	71 LU	LY2	1	1.185	1,2,3
15.23	88 RA	LL	1	1.167	1,2,3	15.46	66 DY	KB1	5	0.237	1,2,3
15.27	71 LU	KA2	5	0.234	1,2,3	15.46	70 YB	LY4	1	1.185	1,2
15.27	46 PD	KA1	2	0.585	1,2,3	15.48	75 RE	LB7	1	1.186	1,2
15.27	76 OS	LB2	1	1.170	1,2,3	15.48	82 PB	LA2	1	1.186	1,2,3
15.27	56 BA	KA2	3	0.390	1,2,3	15.50	91 PA	LY4	2	0.594	1,2
15.29	64 GD	KA2	4	0.293	1,2,3	15.50	59 PR	KB2	4	0.297	1,2,3
15.29	75 RE	LB10	1	1.172	1,2	15.53	92 U	LY6	2	0.595	1,2
15.29	60 ND	KB1	4	0.293	1,2,3	15.53	66 DY	KB3	5	0.238	1,2

EDDT CRYSTAL, D# 4.404 ANGSTROMS						15.58 TO 16.13					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
15.58	93 NP	LY1	2	0.597	1,2,3	15.86	72 HF	LY5	1	1.215	1,2
15.61	31 GA	KB2	1	1.176	1,2,3	15.86	55 CS	KA2	3	0.405	1,2,3
15.61	92 U	LY3	2	0.598	1,2,3	15.86	74 W	LB5	1	1.215	1,2
15.61	63 EU	KA1	4	0.299	1,2,3	15.87	59 PR	KB1	4	0.304	1,2,3
15.62	31 GA	KB5	1	1.197	1,2	15.90	76 OS	LB4	1	1.218	1,2,3
15.62	76 OS	LB1	1	1.197	1,2,3	15.91	81 TL	LA2	1	1.219	1,2,3
15.63	71 LU	LY6	1	1.198	1,2	15.92	69 TM	KA1	5	0.244	1,2,3
15.66	65 TB	KB2	5	0.240	1,2,3	15.92	75 RE	LB3	1	1.220	1,2,3
15.66	52 TE	KB1	3	0.400	1,2,3	15.92	59 PR	KB3	4	0.305	1,2
15.66	55 CS	KA1	3	0.400	1,2,3	15.95	71 LU	LY1	1	1.222	1,2,3
15.69	43 TC	KB3	2	0.601	1,2	15.95	90 TH	LY4	2	0.611	1,2
15.70	52 TE	KB3	3	0.401	1,2	15.95	70 YB	LY3	1	1.222	1,2,3
15.70	79 AU	LN	1	1.203	1,2,3	15.98	74 W	LB7	1	1.224	1,2
15.71	43 TC	KB1	2	0.602	1,2,3	15.98	51 SB	KB2	3	0.408	1,2,3
15.71	74 W	LB9	1	1.204	1,2	16.00	91 PA	LY6	2	0.613	1,2
15.73	70 YB	KA2	5	0.241	1,2,3	16.00	45 RH	KA1	2	0.613	1,2,3
15.74	93 CF	LB1	2	0.603	1	16.04	70 YB	LY2	1	1.229	1,2,3
15.75	81 TL	LA1	1	1.207	1,2,3	16.04	69 TM	LY4	1	1.229	1
15.75	75 RE	LB2	1	1.207	1,2,3	16.05	65 TB	KB3	5	0.246	1,2
15.77	31 GA	KB3	1	1.208	1,2	16.05	65 TB	KB1	5	0.246	1,2,3
15.77	31 GA	KB1	1	1.208	1,2,3	16.05	92 U	LY1	2	0.615	1,2,3
15.79	92 U	LY2	2	0.605	1,2,3	16.08	58 CE	KB2	4	0.308	1,2,3
15.82	63 EU	KA2	4	0.303	1,2,3	16.11	91 PA	LY3	2	0.617	1,2,3
15.82	74 W	LB10	1	1.212	1,2	16.13	62 SM	KA1	4	0.309	1,2,3
15.83	76 OS	LB6	1	1.213	1,2,3	16.13	45 RH	KA2	2	0.618	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS						16.17 TO 16.76					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
16.17	75 RE	LB1	1	1.239	1,2,3	16.45	54 XE	KA2	3	0.420	1,2,3
16.19	64 GD	KB2	5	0.248	1,2,3	16.45	71 LU	LY5	1	1.260	1,2
16.19	42 MO	KB4	2	0.620	2	16.45	68 ER	KA1	5	0.252	1,2,3
16.20	80 HG	LA1	1	1.241	1,2,3	16.49	74 W	LB3	1	1.263	1,2,3
16.21	97 BK	LB1	2	0.621	1	16.50	90 TH	LY6	2	0.632	1,2
16.21	42 MO	KB2	2	0.621	1,2,3	16.50	58 CE	KB3	4	0.316	1,2
16.21	51 SB	KB5	3	0.414	1	16.50	73 TA	LB7	1	1.264	1,2
16.23	78 PT	LN	1	1.243	1,2,3	16.50	42 MO	KB1	2	0.632	1,2,3
16.23	70 YB	LY6	1	1.243	1,2	16.50	58 CE	KB1	4	0.316	1,2,3
16.25	69 TM	KA2	5	0.249	1,2,3	16.53	42 MO	KB3	2	0.633	1,2
16.25	74 W	LB2	1	1.245	1,2,3	16.55	91 PA	LY1	2	0.634	1,2,3
16.26	73 TA	LB9	1	1.246	1,2	16.55	70 YB	LY1	1	1.268	1,2,3
16.29	54 XE	KA1	3	0.416	1,2,3	16.55	69 TM	LY3	1	1.268	1,2,3
16.29	91 PA	LY2	2	0.624	1,2,3	16.58	64 GD	KB1	5	0.254	1,2,3
16.33	75 RE	LB6	1	1.251	1,2,3	16.58	92 U	LY5	2	0.635	1,2
16.33	51 SB	KB1	3	0.417	1,2,3	16.61	90 TH	LY3	2	0.636	1,2,3
16.36	80 HG	LA2	1	1.253	1,2,3	16.63	69 TM	LY2	1	1.274	1,2,3
16.37	32 GE	KA1	1	1.254	1,2,3	16.65	64 GD	KB3	5	0.255	1,2
16.37	42 MO	KB5	2	0.627	1	16.66	68 ER	LY4	1	1.276	1,2
16.37	73 TA	LB10	1	1.254	1,2	16.66	79 AU	LA1	1	1.276	1,3
16.37	51 SB	KB3	3	0.418	1,2	16.69	96 CM	LB1	2	0.639	1
16.38	73 TA	LB5	1	1.255	1,2	16.69	50 SN	KB2	3	0.426	1,2,3
16.40	62 SM	KA2	4	0.314	1,2,3	16.71	57 LA	KB2	4	0.320	1,2,3
16.42	32 GE	KA2	1	1.258	1,2,3	16.74	74 W	LB1	1	1.282	1,2,3
16.44	75 RE	LB4	1	1.259	1,2,3	16.76	73 TA	LB2	1	1.284	1,2,3

EDOT CRYSTAL, D# 4.404 ANGSTROMS						16.76 TO 17.34					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
16.76	30 ZN	KB2	1	1.284	1,2,3	17.05	98 CF	LB2	2	0.653	1
16.76	61 PM	KA1	4	0.321	1,2,3	17.05	70 YB	LY5	1	1.306	1,2
16.76	77 IR	LN	1	1.284	1,2,3	17.05	90 TH	LY1	2	0.653	1,2,3
16.76	90 TH	LY2	2	0.642	1,2,3	17.07	73 TA	LB3	1	1.307	1,2,3
16.78	68 ER	KA2	5	0.257	1,2,3	17.08	41 NB	KB2	2	0.654	1,2,3
16.78	30 ZN	KB5	1	1.285	1,2	17.08	50 SN	KB3	3	0.436	1,2
16.78	63 EU	KB2	5	0.257	1,2,3	17.11	91 PA	LY5	2	0.655	1,2
16.79	44 RU	KA1	2	0.643	1,2,3	17.13	57 LA	KB1	4	0.328	1,2,3
16.82	79 AU	LA2	1	1.288	1,2,3	17.15	78 PT	LA1	1	1.313	1,2,3
16.84	72 HF	LB9	1	1.290	1,2	17.16	53 I	KA2	3	0.438	1,2,3
16.84	69 TM	LY6	1	1.290	1	17.17	69 TM	LY1	1	1.315	1,2,3
16.84	74 W	LB6	1	1.290	1,2,3	17.17	68 ER	LY3	1	1.315	1,2,3
16.90	44 RU	KA2	2	0.647	1,2,3	17.18	83 BI	LL	1	1.316	1,2,3
16.91	30 ZN	KB1	1	1.295	1,2,3	17.18	57 LA	KB3	4	0.329	1,2
16.92	50 SN	KB5	3	0.432	1	17.18	95 AM	LB1	2	0.658	1,3
16.95	72 HF	LB5	1	1.298	1,2	17.24	63 EU	KB1	5	0.264	1,2,3
16.95	88 RA	LY4	2	0.649	1,2	17.24	41 NB	KB5	2	0.660	1
16.95	72 HF	LB10	1	1.298	1,2	17.24	63 EU	KB3	5	0.264	1,2
16.96	53 I	KA1	3	0.433	1,2,3	17.25	68 ER	LY2	1	1.321	1,2,3
16.97	61 PM	KA2	4	0.325	1,2,3	17.26	67 HO	LY4	1	1.322	1,2
17.00	74 W	LB4	1	1.302	1,2,3	17.29	78 PT	LA2	1	1.324	1,2,3
17.03	57 LA	KB5	4	0.326	1	17.32	72 HF	LB2	1	1.325	1,2,3
17.04	50 SN	KB1	3	0.435	1,2,3	17.33	73 TA	LB1	1	1.327	1,2,3
17.04	67 HO	KA1	5	0.261	1,2,3	17.34	76 OS	LN	1	1.328	1,2,3
17.05	72 HF	LB7	1	1.305	1,2	17.34	60 ND	KA1	4	0.332	1,2,3

EDOT CRYSTAL, D# 4.404 ANGSTROMS							17.37 TO 17.95						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
17.37	62 SM	KB2	5	0.266	1,2,3		17.66	56 BA	KB5	4	0.338	1	
17.37	67 HO	KA2	5	0.266	1,2,3		17.67	49 IN	KB5	3	0.451	1	
17.38	73 TA	LB6	1	1.331	1,2,3		17.67	72 HF	LB3	1	1.353	1,2,3	
17.40	56 BA	KB2	4	0.333	1,2,3		17.67	52 TE	KA1	3	0.451	1,2,3	
17.40	41 NB	KB3	2	0.666	1,2		17.70	69 TM	LY5	1	1.355	1,2	
17.40	41 NB	KB1	2	0.666	1,2,3		17.71	94 PU	LB1	2	0.678	1	
17.43	49 IN	KB2	3	0.445	1,2,3		17.79	92 U	LB9	2	0.681	1,2	
17.45	71 LU	LB9	1	1.336	1,2		17.79	77 IR	LA2	1	1.362	1,2,3	
17.47	97 BK	LB2	2	0.669	1		17.82	68 ER	LY1	1	1.364	1,2,3	
17.50	31 GA	KA1	1	1.340	1,2,3		17.82	88 RA	LY2	2	0.682	1,2,3	
17.53	71 LU	LB5	1	1.342	1,2		17.82	56 BA	KB3	4	0.341	1,2	
17.54	71 LU	LB10	1	1.343	1,2		17.82	67 HO	LY3	1	1.364	1,2,3	
17.55	31 GA	KA2	1	1.344	1,2,3		17.82	56 BA	KB1	4	0.341	1,2,3	
17.55	60 ND	KA2	4	0.336	1,2,3		17.83	62 SM	KB1	5	0.273	1,2,3	
17.58	73 TA	LB4	1	1.346	1,2,3		17.83	49 IN	KB1	3	0.455	1,2,3	
17.58	43 TC	KA1	2	0.673	2,3		17.83	49 IN	KB3	3	0.455	1,2	
17.58	88 RA	LY6	2	0.673	1,2		17.87	52 TE	KA2	3	0.456	1,2,3	
17.61	89 AC	LY1	2	0.674	1		17.90	96 CM	LB2	2	0.685	1	
17.62	71 LU	LB7	1	1.349	1,2		17.90	66 DY	KA2	5	0.274	1,2,3	
17.63	90 TH	LY5	2	0.675	1,2		17.90	71 LU	LB2	1	1.370	1,2,3	
17.63	66 DY	KA1	5	0.270	1,2,3		17.90	67 HO	LY2	1	1.370	1,2,3	
17.63	82 PB	LL	1	1.350	1,2,3		17.90	62 SM	KB3	5	0.274	1,2	
17.63	88 RA	LY3	2	0.675	1,2,3		17.94	75 RE	LN	1	1.373	1,2,3	
17.65	77 IR	LA1	1	1.351	1,2,3		17.95	66 DY	LY4	1	1.374	1,2	
17.66	43 TC	KA2	2	0.676	2,3		17.95	92 U	LB10	2	0.687	1,2	

EDDT CRYSTAL, D# 4.404 ANGSTROMS						17.95 TO 18.63					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
17.95	72 HF	LB1	1	1.374	1,2,3	18.32	95 AM	LB2	2	0.701	1,3
17.95	72 HF	LB6	1	1.374	1,2,3	18.32	91 PA	LB9	2	0.701	1,2
17.97	59 PR	KA1	4	0.344	1,2,3	18.34	40 ZR	KB1	2	0.702	1,2,3
18.03	40 ZR	KB2	2	0.690	1,2,3	18.34	40 ZR	KB3	2	0.702	1,2
18.03	61 PM	KB2	5	0.276	1	18.37	68 ER	LY5	1	1.406	1,2
18.04	29 CU	KB2	1	1.381	2,3	18.42	51 SB	KA1	3	0.470	1,2,3
18.05	29 CU	KB5	1	1.382	2	18.42	61 PM	KB1	5	0.282	1,2,3
18.08	55 CS	KB2	4	0.346	1,2,3	18.49	61 PM	KB3	5	0.283	2
18.08	70 YB	LB9	1	1.384	1,2	18.49	70 YB	LB2	1	1.415	1,2,3
18.09	81 TL	LL	1	1.385	1,2,3	18.49	65 TB	KA2	5	0.283	1,2,3
18.12	70 YB	LB5	1	1.387	1,2	18.50	55 CS	KB1	4	0.354	1,2,3
18.16	88 RA	LY1	2	0.695	1,2,3	18.50	91 PA	LB10	2	0.708	1,2
18.17	76 OS	LA1	1	1.391	1,2,3	18.52	66 DY	LY3	1	1.417	1,2,3
18.17	70 YB	LB10	1	1.391	1,2	18.52	67 HO	LY1	1	1.417	1,2,3
18.19	40 ZR	KB5	2	0.696	1	18.53	42 MO	KA1	2	0.709	1,2,3
18.19	29 CU	KB1	1	1.392	1,2,3	18.54	71 LU	LB6	1	1.419	1,2,3
18.19	72 HF	LB4	1	1.392	1,2,3	18.55	92 U	LB3	2	0.710	1,2,3
18.20	29 CU	KB3	1	1.393	1,2	18.55	55 CS	KB3	4	0.355	1,2
18.23	70 YB	LB7	1	1.395	1,2	18.57	74 W	LN	1	1.421	1,2,3
18.23	65 TB	KA1	5	0.279	1,2,3	18.58	80 HG	LL	1	1.422	1,2,3
18.23	48 CD	KB2	3	0.465	1,2,3	18.59	66 DY	LY2	1	1.423	1,2,3
18.24	93 NP	LB1	2	0.698	1,2,3	18.61	71 LU	LB1	1	1.424	1,2,3
18.24	59 PR	KA2	4	0.349	1,2,3	18.62	48 CD	KB1	3	0.475	1,2,3
18.30	71 LU	LB3	1	1.401	1,2,3	18.62	51 SB	KA2	3	0.475	1,2,3
18.32	76 OS	LA2	1	1.402	1,2,3	18.63	42 MO	KA2	2	0.713	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS						18.65 TO 19.40					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
18.65	65 TB	LY4	1	1.427	1,2	19.11	67 HO	LY5	1	1.462	1,2
18.66	58 CE	KA1	4	0.357	1,2,3	19.12	69 TM	LB2	1	1.463	1,2,3
18.66	48 CD	KB3	3	0.476	1,2	19.13	91 PA	LB3	2	0.732	1,2,3
18.69	60 ND	KB2	5	0.286	1,2,3	19.15	60 ND	KB1	5	0.293	1,2,3
18.71	87 FR	LY1	2	0.716	1,2,3	19.15	64 GD	KA2	5	0.293	1,2,3
18.73	75 RE	LA1	1	1.433	1,2,3	19.16	70 YB	LB6	1	1.466	1,2,3
18.74	88 RA	LY5	2	0.717	1,2	19.19	39 Y	KB5	2	0.734	1
18.75	30 ZN	KA1	1	1.435	1,2,3	19.21	60 ND	KB3	5	0.294	1,2
18.77	94 PU	LB2	2	0.718	1	19.23	65 TB	LY3	1	1.471	1,2,3
18.81	30 ZN	KA2	1	1.439	1,2,3	19.23	73 TA	LN	1	1.471	1,2,3
18.82	92 U	LB1	2	0.720	1,2,3	19.24	54 XE	KB1	4	0.368	1,2,3
18.82	71 LU	LB4	1	1.440	1,2,3	19.24	93 NP	LB2	2	0.736	1,2,3
18.82	64 GD	KA1	5	0.288	1,2,3	19.24	92 U	LB7	2	0.736	1,2
18.82	54 XE	KB2	4	0.360	1,2,3	19.25	66 DY	LY1	1	1.473	1,2,3
18.83	69 TM	LB10	1	1.441	1	19.25	50 SN	KA1	3	0.491	1,2,3
18.87	75 RE	LA2	1	1.444	1,2,3	19.29	70 YB	LB1	1	1.476	1,2,3
18.90	90 TH	LB9	2	0.723	1,2	19.29	74 W	LA1	1	1.476	1,2,3
18.92	58 CE	KA2	4	0.362	1,2,3	19.31	65 TB	LY2	1	1.477	1,2,3
18.98	92 U	LB5	2	0.726	1,2	19.32	71 LU	LN	1	1.478	1,2
18.98	70 YB	LB3	1	1.452	1,2,3	19.32	86 RN	LY1	2	0.739	1
19.00	39 Y	KB4	2	0.727	2	19.33	47 AG	KB5	3	0.493	1
19.06	39 Y	KB2	2	0.729	1,2,3	19.37	39 Y	KB1	2	0.741	1,2,3
19.08	90 TH	LB10	2	0.730	1,2	19.37	39 Y	KB3	2	0.741	1,2
19.08	79 AU	LL	1	1.460	1,2,3	19.40	57 LA	KA1	4	0.371	1,2,3
19.10	47 AG	KB2	3	0.487	1,2,3	19.40	91 PA	LB1	2	0.742	1,2,3

EDCT CRYSTAL, D# 4.404 ANGSTROMS						19.41 TO 19.99					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
19.41	68 ER	LB9	1	1.485	1,2	19.79	68 ER	LB2	1	1.514	1,2,3
19.41	64 GD	LY4	1	1.485	1,2	19.81	69 TM	LB6	1	1.515	1,2,3
19.41	59 PR	KB2	5	0.297	1,2,3	19.81	63 EU	KA2	5	0.303	1,2,3
19.41	50 SN	KA2	3	0.495	1,2,3	19.85	66 DY	LY5	1	1.513	1,2
19.44	74 W	LA2	1	1.487	1,2,3	19.88	59 PR	KB1	5	0.304	1,2,3
19.46	28 MI	KB5	1	1.489	1,2	19.90	83 BI	LY4	2	0.761	1,2
19.46	28 MI	KB2	1	1.489	1,2,3	19.90	73 TA	LA1	1	1.522	1,2,3
19.48	91 PA	LB5	2	0.745	1,2	19.91	72 HF	LN	1	1.523	1,2,3
19.49	70 YB	LB4	1	1.491	1,2,3	19.94	59 PR	KB3	5	0.305	1,2
19.49	47 AG	KB1	3	0.497	1,2,3	19.95	85 AT	LY1	2	0.763	1
19.50	41 MB	KA1	2	0.746	1,2,3	19.98	84 PO	LY6	2	0.764	1,2
19.53	47 AG	KB3	3	0.498	1,2	19.98	84 PO	LY3	2	0.764	1,2,3
19.53	68 ER	LB7	1	1.494	1,2	19.99	64 GD	LY3	1	1.529	1,2,3
19.53	68 ER	LB10	1	1.494	1,2						
19.54	63 EU	KA1	5	0.299	1,2,3						
19.56	92 W	LB4	2	0.748	1,2,3						
19.60	78 PT	LL	1	1.499	1,2,3						
19.61	57 LA	KA2	4	0.375	1,2,3						
19.61	28 MI	KB1	1	1.500	1,2,3						
19.61	41 MB	KA2	2	0.750	1,2,3						
19.61	53 I	KB2	4	0.375	1,2,3						
19.68	69 TM	LB3	1	1.505	1,2,3						
19.74	90 TH	LB3	2	0.755	1,2,3						
19.74	92 U	LB2	2	0.755	1,2,3						
19.74	91 PA	LB7	2	0.755	1,2						

EDDT CRYSTAL, D# 4.404 ANGSTROMS						20.01 TO 20.67					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
20.01	90 TH	LB5	2	0.765	1,2	20.27	88 RA	LB10	2	0.775	1,2
20.01	90 TH	LB1	2	0.765	1,2,3	20.27	38 SR	KB5	2	0.775	1
20.01	69 TM	LB1	1	1.530	1,2,3	20.28	49 IN	KA2	3	0.517	1,2,3
20.01	46 PD	KB2	3	0.510	1,2,3	20.28	46 PD	KB5	3	0.517	1
20.01	65 TB	LY1	1	1.530	1,2,3	20.40	56 BA	KA2	4	0.390	1,2,3
20.05	73 TA	LA2	1	1.533	1,2,3	20.42	68 ER	LB3	1	1.561	1,2,3
20.06	64 GD	LY2	1	1.534	1,2,3	20.44	46 PD	KB3	3	0.521	1,2
20.09	49 IN	KA1	3	0.512	1,2,3	20.44	46 PD	KB1	3	0.521	1,2,3
20.09	53 I	KB1	4	0.384	1,2,3	20.46	52 TE	KB2	4	0.391	1,2,3
20.11	88 RA	LB9	2	0.769	1,2	20.48	38 SR	KB3	2	0.783	1,2
20.14	58 CE	KB2	5	0.308	1,2,3	20.48	38 SR	KB1	2	0.783	1,2,3
20.14	56 BA	KA1	4	0.385	1,2,3	20.50	67 HO	LB2	1	1.567	1,2,3
20.14	53 I	KB3	4	0.385	1,2	20.50	68 ER	LB6	1	1.567	1,2,3
20.14	91 PA	LB4	2	0.770	1,2,3	20.52	72 HF	LA1	1	1.569	1,2,3
20.15	29 CU	KA1	1	1.541	1,2,3	20.53	62 SM	KA2	5	0.314	1,2,3
20.15	77 IR	LL	1	1.541	1,2,3	20.56	82 PB	LY4	2	0.786	1
20.16	38 SR	KB2	2	0.771	1,2,3	20.56	40 ZR	KA1	2	0.786	1,2,3
20.19	69 TM	LB4	1	1.544	1,2,3	20.59	84 PO	LY1	2	0.787	1,2,3
20.19	63 EU	LY4	1	1.544	1,2	20.61	92 U	LB6	2	0.788	1,2,3
20.19	29 CU	KA2	1	1.544	1,2,3	20.63	65 TB	LY5	1	1.577	1
20.20	62 SM	KA1	5	0.309	1,2,3	20.63	65 TB	LB5	1	1.577	2
20.20	98 CF	LY1	3	0.515	1	20.64	83 BI	LY3	2	0.789	1,2,3
20.24	90 TH	LB7	2	0.774	1,2	20.64	89 AC	LB1	2	0.789	1
20.24	91 PA	LB2	2	0.774	1,2,3	20.67	58 CE	KB3	5	0.316	1,2
20.26	67 HO	LB10	1	1.549	1	20.67	72 HF	LA2	1	1.580	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS							20.67 TO 21.36						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
20.67	58 CE	KB1	5	0.316	1,2,3		21.02	66 DY	LB10	1	1.607	1	
20.67	83 BI	LY6	2	0.790	1,2		21.04	98 CF	LA2	2	0.804	1	
20.67	40 ER	KA2	2	0.790	1,2,3		21.05	27 CO	KB5	1	1.609	1,2	
20.72	98 CF	LA1	2	0.792	1		21.06	92 U	LN	2	0.805	1,2,3	
20.73	76 DS	LL	1	1.585	1,2,3		21.09	88 RA	LB5	2	0.806	1,2	
20.75	90 FH	LB4	2	0.793	1,2,3		21.14	91 PA	LB6	2	0.808	1,2,3	
20.76	68 ER	LB1	1	1.587	1,2,3		21.16	48 CD	KA2	3	0.539	1,2,3	
20.77	90 FH	LB2	2	0.794	1,2,3		21.18	67 HO	LB3	1	1.619	1,2,3	
20.80	97 BK	LY1	3	0.530	1		21.18	71 LU	LA1	1	1.619	1,2,3	
20.81	63 EU	LY3	1	1.591	1,2,3		21.20	55 CS	KA2	4	0.405	1,2,3	
20.83	83 BI	LY2	2	0.796	1,2,3		21.20	97 BK	LA1	2	0.810	1	
20.83	64 GD	LY1	1	1.592	1,2,3		21.21	27 CO	KB1	1	1.621	1,2,3	
20.89	63 EU	LY2	1	1.597	1,2,3		21.22	67 HO	LB6	1	1.622	1,2,3	
20.92	66 DY	LB7	1	1.599	1,2		21.24	66 DY	LB2	1	1.623	1,2,3	
20.93	55 CS	KA1	4	0.400	1,2,3		21.24	45 RH	KB5	3	0.541	1	
20.93	66 DY	LB9	1	1.600	1		21.25	81 TL	LY4	2	0.812	1,2	
20.93	52 TE	KB1	4	0.400	1,2,3		21.26	61 PM	KA2	5	0.325	1,2,3	
20.93	57 LA	KB2	5	0.320	1,2,3		21.28	83 BI	LY1	2	0.813	1,2,3	
20.94	68 ER	LB4	1	1.601	1,2,3		21.30	89 AC	LB2	2	0.814	1	
20.98	52 TE	KB3	4	0.401	1,2		21.30	88 RA	LB1	2	0.814	1,2,3	
21.00	61 PM	KA1	5	0.321	1,2,3		21.33	71 LU	LA2	1	1.630	1,2,3	
21.00	48 CD	KA1	3	0.535	1,2,3		21.33	57 LA	KB5	5	0.326	1	
21.00	45 RH	KB2	3	0.535	1,2,3		21.33	75 RE	LL	1	1.630	1,2,3	
21.01	88 RA	LB3	2	0.803	1,2,3		21.33	82 PB	LY3	2	0.815	1,2,3	
21.01	62 SM	LY4	1	1.606	1,2		21.36	37 RB	KB2	2	0.816	1,2,3	

EDDT CRYSTAL, D# 4.404 ANGSTROMS							21.36 TO 22.02					
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF
21.36	88 RA	LB7	2	0.816	1,2		21.71	65 TB	LB7	1	1.659	1,2
21.36	51 SB	KB2	4	0.408	1,2,3		21.71	62 SM	LY2	1	1.659	1,2,3
21.38	82 PB	LY6	2	0.817	1,2		21.73	60 ND	KA1	5	0.332	1,2,3
21.41	70 YB	LN	1	1.636	1,2,3		21.75	28 NI	KA2	1	1.662	1,2,3
21.43	45 RH	KB3	3	0.546	1,2		21.78	54 XE	KA1	4	0.416	1,2,3
21.43	96 CM	LY1	3	0.546	1		21.79	56 BA	KB2	5	0.333	1,2,3
21.43	45 RH	KB1	3	0.546	1,2,3		21.81	39 Y	KA2	2	0.833	1,2,3
21.46	57 LA	KB1	5	0.328	1,2,3		21.82	65 TB	LB10	1	1.667	1,2
21.47	64 GD	LY5	1	1.641	1		21.83	51 SB	KB1	4	0.417	1,2,3
21.49	82 PB	LY2	2	0.821	1,2,3		21.86	88 RA	LB2	2	0.835	1,2,3
21.51	37 RB	KB5	2	0.822	1		21.88	51 SB	KB3	4	0.418	1,2
21.51	97 BK	LA2	2	0.822	1		21.88	70 YB	LA1	1	1.672	1,2,3
21.53	57 LA	KB3	5	0.329	1,2		21.95	47 AG	KA1	3	0.559	1,2,3
21.55	67 HO	LB1	1	1.647	1,2,3		21.96	80 HG	LY4	2	0.839	1,2
21.66	62 SM	LY3	1	1.655	1,2,3		21.96	83 BI	LY5	2	0.839	1,2
21.67	51 SB	KB5	4	0.414	1		21.96	74 W	LL	1	1.678	1,2,3
21.67	90 TH	LB6	2	0.828	1,2,3		21.99	60 ND	KA2	5	0.336	1,2,3
21.70	28 NI	KA1	1	1.658	1,2,3		21.99	82 PB	LY1	2	0.840	1,2,3
21.70	96 CM	LA1	2	0.829	1		21.99	87 FR	LB1	2	0.840	1,2,3
21.70	37 RB	KB3	2	0.829	1,2		21.99	54 XE	KA2	4	0.420	1,2,3
21.70	39 Y	KA1	2	0.829	1,2,3		22.00	66 DY	LB3	1	1.681	1,2,3
21.70	63 EU	LY1	1	1.658	1,2,3		22.00	66 DY	LB6	1	1.681	1,2,3
21.70	91 PA	LN	2	0.829	1,2,3		22.02	88 RA	LB4	2	0.841	1,2,3
21.70	37 RB	KB1	2	0.829	1,2,3		22.02	81 TL	LY3	2	0.841	1,2,3
21.71	67 HO	LB4	1	1.659	1,2,3		22.02	96 CM	LA2	2	0.841	1

ECDT CRYSTAL, D# 4.404 ANGSTROMS						22.02 TO 22.85					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
22.02	65 TB	LB2	1	1.682	1,2,3	22.60	69 TM	LA1	1	1.726	1,2,3
22.03	70 YB	LA2	1	1.682	1,2,3	22.61	62 SM	LY1	1	1.727	1,2,3
22.07	44 RU	KB2	3	0.562	1,2,3	22.63	73 TA	LL	1	1.728	1,2,3
22.07	95 AM	LY1	3	0.562	1,3	22.63	50 SN	KB5	4	0.432	1
22.10	81 TL	LY6	2	0.844	1,2	22.65	55 CS	KB2	5	0.346	1,2,3
22.12	56 BA	KB5	5	0.336	1	22.67	64 GD	LB10	1	1.731	1,2
22.15	47 AG	KA2	3	0.564	1,2,3	22.68	82 PB	LY5	2	0.866	1,2
22.20	69 TM	LN	1	1.696	1,2,3	22.68	86 RN	LB1	2	0.866	1
22.20	81 TL	LY2	2	0.848	1,2,3	22.68	36 KR	KB4	2	0.866	2
22.20	95 AM	LA1	2	0.848	1,3	22.68	53 I	KA1	4	0.433	1,2,3
22.31	44 RU	KB5	3	0.568	1	22.68	36 KR	KB2	2	0.866	1,2,3
22.31	50 SN	KB2	4	0.426	1,2,3	22.73	94 PU	LA1	2	0.868	1
22.32	56 BA	KB3	5	0.34	1,2	22.73	81 TL	LY1	2	0.868	1,2,3
22.32	56 BA	KB1	5	0.34	1,2,3	22.75	94 PU	LY1	3	0.579	1
22.36	90 TH	LN	2	0.854	1,2,3	22.75	69 TM	LA2	1	1.737	1,2,3
22.36	63 EU	LY5	1	1.708	1,2	22.76	80 HG	LY3	2	0.869	1,2,3
22.39	66 DY	LB1	1	1.710	1,2,3	22.79	50 SN	KB1	4	0.435	1,2,3
22.47	44 RU	KB1	3	0.572	1,2,3	22.80	65 TB	LB6	1	1.741	1,2,3
22.47	87 FR	LB2	2	0.853	1,2,3	22.81	88 RA	LB6	2	0.871	1,2,3
22.51	44 RU	KB3	3	0.573	1,2	22.81	36 KR	KB5	2	0.871	1,2
22.52	95 AM	LA2	2	0.860	1,3	22.84	50 SN	KB3	4	0.436	1,2
22.52	66 DY	LB4	1	1.720	1,2,3	22.84	60 ND	LY4	1	1.744	1,2
22.52	59 PR	KA1	5	0.344	1,2,3	22.84	26 FE	KB5	1	1.744	1,2
22.56	64 GD	LB7	1	1.723	1,2	22.85	64 GD	LB2	1	1.745	1,2,3
22.57	64 GD	LB9	1	1.724	1	22.85	59 PR	KA2	5	0.349	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS						22.87 TO 23.64					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
22.87	65 TB	LB3	1	1.746	1,2,3	23.37	68 ER	LA1	1	1.784	1,2,3
22.87	80 HG	LY6	2	0.873	1,2	23.38	65 TB	LB4	1	1.785	1,2,3
22.92	38 SR	KA1	2	0.875	1,2,3	23.38	58 CE	KA1	5	0.357	1,2,3
22.92	80 HG	LY2	2	0.875	1,2,3	23.38	92 U	LY6	3	0.595	1,2
22.95	53 I	KA2	4	0.438	1,2,3	23.42	63 EU	LB7	1	1.788	1,2
22.99	46 PD	KA1	3	0.585	1,2,3	23.42	85 AT	LB1	2	0.894	1
23.00	68 ER	LN	1	1.756	1,2,3	23.44	27 CO	KA1	1	1.789	1,2,3
23.00	36 KR	KB1	2	0.878	1,2,3	23.45	81 TL	LY5	2	0.895	1,2
23.01	26 FE	KB1	1	1.757	1,2,3	23.46	93 NP	LY1	3	0.597	1,2,3
23.03	38 SR	KA2	2	0.879	1,2,3	23.48	63 EU	LB9	1	1.792	1,2
23.03	36 KR	KB3	2	0.879	1,2	23.49	27 CO	KA2	1	1.793	1,2,3
23.05	94 PU	LA2	2	0.880	1	23.50	80 HG	LY1	2	0.897	1,2,3
23.08	86 RN	LB2	2	0.881	1	23.50	78 PT	LY4	2	0.897	1,2
23.18	43 TC	KB2	3	0.590	1	23.50	92 U	LY3	3	0.598	1,2,3
23.18	55 CS	KB1	5	0.354	1,2,3	23.53	79 AU	LY3	2	0.898	1,2,3
23.18	43 TC	KB4	3	0.590	1	23.53	60 ND	LY3	1	1.796	1,2,3
23.18	46 PD	KA2	3	0.590	1,2,3	23.53	83 BI	LB9	2	0.898	1,2
23.25	55 CS	KB3	5	0.355	1,2	23.53	68 ER	LA2	1	1.796	1,2,3
23.26	65 TB	LB1	1	1.776	1,2,3	23.56	84 PO	LB5	2	0.899	1,2
23.29	93 NP	LA1	2	0.889	1,2,3	23.58	54 XE	KB2	5	0.360	1,2,3
23.30	62 SM	LY5	1	1.779	1	23.58	63 EU	LB10	1	1.800	1,2
23.30	62 SM	LB5	1	1.779	2	23.60	60 ND	LY2	1	1.801	1,2,3
23.32	49 IN	KB2	4	0.445	1,2,3	23.61	93 NP	LA2	2	0.901	1
23.33	72 HF	LL	1	1.781	1,2,3	23.62	43 TC	KB3	3	0.601	1,2
23.34	91 PA	LY4	3	0.594	1,2	23.64	49 IN	KB5	4	0.451	1

EDDT CRYSTAL, D# 4.404 ANGSTROMS						23.64 TO 24.38					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
23.64	52 TE	KA1	4	0.451	1,2,3	24.12	54 XE	KB1	5	0.368	1,2,3
23.66	43 TC	KB1	3	0.602	1,2,3	24.14	35 BR	KB2	2	0.921	1,2,3
23.66	79 AU	LY6	2	0.903	1,2	24.17	84 PO	LB1	2	0.922	1,2,3
23.68	64 GD	LB6	1	1.807	1,2,3	24.17	92 U	LA2	2	0.922	1,2,3
23.69	79 AU	LY2	2	0.904	1,2,3	24.18	67 HO	LA1	1	1.845	1,2,3
23.70	98 CF	LB1	3	0.603	1	24.18	92 U	LY1	3	0.615	1,2,3
23.72	83 BI	LB10	2	0.905	1,2	24.20	64 GD	LB1	1	1.846	1,2,3
23.72	58 CE	KA2	5	0.362	1,2,3	24.22	80 HG	LY5	2	0.924	1,2
23.72	85 AT	LB2	2	0.905	1	24.25	35 BR	KB5	2	0.925	1,2
23.74	63 EU	LB2	1	1.812	1,2,3	24.26	91 PA	LY3	3	0.617	1,2,3
23.77	88 RA	LN	2	0.907	1,2,3	24.28	37 RB	KA1	2	0.926	1,2,3
23.78	64 GD	LB3	1	1.815	1,2,3	24.28	83 BI	LB5	2	0.926	1,2
23.78	92 U	LY2	3	0.605	1,2,3	24.29	64 GD	LB4	1	1.853	1,2,3
23.80	61 PM	LY1	1	1.816	1	24.30	79 AU	LY1	2	0.927	1,2,3
23.82	84 PO	LB3	2	0.909	1,2,3	24.30	45 RH	KA2	3	0.618	1,2,3
23.84	59 PR	LY4	1	1.819	1,2	24.30	82 PB	LB9	2	0.927	1,2
23.85	49 IN	KB1	4	0.455	1,2,3	24.30	77 IR	LY4	2	0.927	1,2
23.85	49 IN	KB3	4	0.455	1,2	24.32	60 ND	LY6	1	1.855	2
23.88	92 U	LA1	2	0.911	1,2,3	24.32	57 LA	KA1	5	0.371	1,2,3
23.90	52 TE	KA2	4	0.456	1,2,3	24.33	62 SM	LB7	1	1.856	1,2
23.93	67 HO	LN	1	1.826	1,2,3	24.33	67 HO	LA2	1	1.856	1,2,3
24.02	90 TH	LY4	3	0.611	1,2	24.33	78 PT	LY3	2	0.928	1,2,3
24.06	71 LU	LL	1	1.836	1,2,3	24.35	84 PO	LB2	2	0.929	1,2,3
24.10	45 RH	KA1	3	0.612	1,2,3	24.38	37 RB	KA2	2	0.930	1,2,3
24.10	91 PA	LY6	3	0.613	1,2	24.38	48 CD	KB2	4	0.465	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS							24.38 TO 25.15						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
24.38	42 MO	K84	3	0.620	2		24.83	70 YB	LL	1	1.894	1,2,3	
24.39	62 SM	L89	1	1.861	1,2		24.83	84 PO	L84	2	0.947	1,2,3	
24.42	42 MO	K82	3	0.621	1,2,3		24.86	42 MO	K81	3	0.632	1,2,3	
24.42	97 BK	L81	3	0.621	1		24.86	90 TH	LY6	3	0.632	1,2	
24.46	35 BR	K81	2	0.933	1,2,3		24.88	25 MN	K85	1	1.897	1,2	
24.46	91 PA	LA1	2	0.933	1,2,3		24.88	66 DY	LN	1	1.897	1,2,3	
24.46	35 BR	K83	2	0.933	1,2		24.90	42 MO	K83	3	0.633	1,2	
24.49	78 PT	LY6	2	0.934	1,2		24.90	58 CE	LY4	1	1.899	1,2	
24.49	82 PB	L810	2	0.934	1,2		24.91	51 SB	KA2	4	0.475	1,2,3	
24.49	78 PT	LY2	2	0.934	1,2,3		24.91	48 CD	K81	4	0.475	1,2,3	
24.50	62 SM	L810	1	1.869	1,2		24.94	91 PA	LY1	3	0.634	1,2,3	
24.51	83 BI	L87	2	0.935	1,2		24.97	83 BI	L81	2	0.952	1,2,3	
24.54	91 PA	LY2	3	0.624	1,2,3		24.97	48 CD	K83	4	0.476	1,2	
24.57	63 EU	L86	1	1.874	1,2,3		24.98	92 U	LY5	3	0.635	1,2	
24.57	59 PR	LY3	1	1.874	1,2,3		24.99	82 PB	L85	2	0.953	1,2	
24.58	57 LA	KA2	5	0.375	1,2,3		25.02	90 TH	LY3	3	0.636	1,2,3	
24.58	53 I	K82	5	0.375	1,2,3		25.03	66 DY	LA1	1	1.909	1,2,3	
24.62	60 ND	LY1	1	1.878	1,2,3		25.05	25 MN	K81	1	1.910	1,2,3	
24.62	83 BI	L83	2	0.939	1,2,3		25.05	83 BI	L82	2	0.955	1,2,3	
24.63	59 PR	LY2	1	1.879	1,2,3		25.07	90 TH	LA1	2	0.956	1,2,3	
24.65	51 SB	KA1	4	0.470	1,2,3		25.07	79 AU	LY5	2	0.956	1,2	
24.66	42 MO	K85	3	0.627	1		25.10	81 TL	L89	2	0.957	1,2	
24.67	62 SM	L82	1	1.882	1,2,3		25.13	78 PT	LY1	2	0.958	1,2,3	
24.74	63 EU	L83	1	1.887	1,2,3		25.14	96 CM	L81	3	0.639	1	
24.78	91 PA	LA2	2	0.945	1,2,3		25.15	77 IR	LY3	2	0.959	1,2,3	

EDDT CRYSTAL, D# 4.404 ANGSTROMS						25.15 TO 25.91					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
25.15	76 BS	LY4	2	0.959	1,2	25.65	69 TM	LL	1	1.955	1,2,3
25.18	66 BY	LA2	1	1.920	1,2,3	25.65	58 CE	LY3	1	1.955	1,2,3
25.18	63 EU	LB1	1	1.920	1,2,3	25.65	52 TE	KB2	5	0.391	1,2,3
25.18	53 :	KB1	5	0.384	1,2,3	25.67	61 PM	LB2	1	1.957	1
25.23	82 PB	LB7	2	0.962	1,2	25.70	90 TH	LY1	3	0.653	1,2,3
25.25	53 :	KB3	5	0.385	1,2	25.70	98 CF	LB2	3	0.653	1
25.25	56 BA	KA1	5	0.385	1,2,3	25.71	89 AC	LA1	2	0.980	1
25.26	90 TH	LY2	3	0.642	1,2,3	25.71	58 CE	LY2	1	1.960	1,2,3
25.26	63 EU	LB4	1	1.926	1,2,3	25.71	36 KR	KA1	2	0.980	1,2,3
25.29	81 TL	LB10	2	0.964	1,2	25.71	34 SE	KB2	2	0.980	1,2,3
25.30	44 RU	KA1	3	0.643	1,2,3	25.73	59 PR	LY1	1	1.961	1,2,3
25.31	77 IR	LY2	2	0.965	1,2,3	25.74	41 NB	KB2	3	0.654	1,2,3
25.37	84 PO	LB6	2	0.967	1,2,3	25.74	62 SM	LB3	1	1.962	1,2,3
25.37	77 IR	LY6	2	0.967	1,2	25.74	81 TL	LB5	2	0.981	1,2
25.38	60 VO	LY5	1	1.935	1,2	25.77	82 PB	LB1	2	0.982	1,2,3
25.39	90 TH	LA2	2	0.968	1,2,3	25.77	50 SN	KA1	4	0.491	1,2,3
25.39	26 FE	KA1	1	1.936	1,2,3	25.78	91 PA	LY5	3	0.655	1,2
25.42	82 PB	LB3	2	0.969	1,2,3	25.79	82 PB	LB2	2	0.983	1,2,3
25.45	26 FE	KA2	1	1.940	1,2,3	25.82	34 SE	KB5	2	0.984	1,2
25.46	44 RU	KA2	3	0.647	1,2,3	25.82	36 KR	KA2	2	0.984	1,2,3
25.53	62 SM	LB6	1	1.946	1,2,3	25.88	80 HG	LB9	2	0.986	1,2
25.54	88 RA	LY4	3	0.649	1,2	25.88	47 AG	KB5	4	0.493	1
25.55	47 AG	KB2	4	0.487	1,2,3	25.89	65 TB	LN	1	1.973	1
25.58	56 BA	KA2	5	0.390	1,2,3	25.90	95 AM	LB1	3	0.658	1,3
25.63	83 BI	LB4	2	0.977	1,2,3	25.91	65 TB	LA1	1	1.975	1,2,3

EDDT CRYSTAL, DW 4.404 ANGSTROMS						25.93 TO 26.78					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
25.93	78 PT	LY5	2	0.988	1,2	26.32	52 TE	KB3	5	0.401	1,2
25.98	81 TL	LB7	2	0.990	1,2	26.34	97 BK	LB2	3	0.669	1
25.98	50 SN	KA2	4	0.495	1,2,3	26.37	60 ND	LB7	1	2.009	1,2
25.98	41 NB	KB5	3	0.660	1	26.38	88 RA	LA1	2	1.005	1,2,3
26.01	77 IR	LY1	2	0.991	1,2,3	26.44	82 PB	LB4	2	1.007	1,2,3
26.02	57 LA	LY4	1	1.983	1,2	26.46	60 ND	LB9	1	2.016	1,2
26.03	76 OS	LY3	2	0.992	1,2,3	26.50	68 ER	LL	1	2.019	1,2,3
26.03	34 SE	KB1	2	0.992	1,2,3	26.50	88 RA	LY6	3	0.673	1,2
26.03	75 RE	LY4	2	0.992	1,2	26.50	43 TC	KA1	3	0.673	2,3
26.03	89 AC	LA2	2	0.992	1	26.52	80 HG	LB5	2	1.010	1,2
26.06	34 SE	KB3	2	0.993	1,2	26.52	81 TL	LB2	2	1.010	1,2,3
26.06	83 BI	LB6	2	0.993	1,2,3	26.52	59 PR	LY5	1	2.020	1,2
26.06	65 TB	LA2	1	1.986	1,2,3	26.54	89 AC	LY1	3	0.674	1
26.09	47 AG	KB1	4	0.497	1,2,3	26.56	60 ND	LB10	1	2.023	1,2
26.14	80 HG	LB10	2	0.996	1,2	26.58	55 CS	KA2	5	0.405	1,2,3
26.14	47 AG	KB3	4	0.498	1,2	26.58	88 RA	LY3	3	0.675	1,2,3
26.19	76 OS	LY2	2	0.998	1,2,3	26.58	90 TH	LY5	3	0.675	1,2
26.22	41 NB	KB1	3	0.666	1,2,3	26.62	43 TC	KA2	3	0.676	2,3
26.22	62 SM	LB1	1	1.998	1,2,3	26.65	81 TL	LB1	2	1.015	1,2,3
26.22	41 NB	KB3	3	0.666	1,2	26.68	88 RA	LA2	2	1.016	1,2,3
26.25	52 TE	KB1	5	0.400	1,2,3	26.70	94 PU	LB1	3	0.678	1
26.25	62 SM	LB4	1	2.000	1,2,3	26.73	60 ND	LB2	1	2.036	1,2,3
26.25	55 CS	KA1	5	0.400	1,2,3	26.76	80 HG	LB7	2	1.019	1,2
26.28	76 OS	LY6	2	1.001	1,2	26.78	46 PD	KB2	4	0.510	1,2,3
26.28	81 TL	LB3	2	1.001	1,2,3	26.78	51 SB	KB2	5	0.408	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS						26.80 TO 27.56					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
26.80	57 LA	LY3	1	2.041	1,2,3	27.18	40 ZR	KB2	3	0.690	1,2,3
26.81	79 AU	LB9	2	1.021	1,2	27.20	24 CR	KB5	1	2.071	1,2
26.81	82 FB	LB6	2	1.021	1,2,3	27.24	75 RE	LY6	2	1.037	1,2
26.82	92 U	LB9	3	0.681	1,2	27.25	56 BA	LY4	1	2.075	1,2
26.84	77 IR	LY5	2	1.022	1,2	27.29	81 TL	LB4	2	1.039	1,2,3
26.86	57 LA	LY2	1	2.046	1,2,3	27.32	54 XE	KA1	5	0.416	1,2,3
26.86	88 RA	LY2	3	0.682	1,2,3	27.32	80 HG	LB2	2	1.040	1,2,3
26.86	64 GD	LA1	1	2.046	1,2,3	27.32	79 AU	LB5	2	1.040	1,2
26.89	58 EE	LY1	1	2.048	1,2,3	27.32	35 BR	KA1	2	1.040	1,2,3
26.89	49 IN	KA1	4	0.512	1,2,3	27.33	61 PM	LB1	1	2.081	1,2,3
26.90	64 GD	LN	1	2.049	1,2,3	27.37	46 PD	KB3	4	0.521	1,2
26.92	76 DS	LY1	2	1.025	1,2,3	27.37	87 FR	LA2	2	1.042	1
26.94	75 RE	LY3	2	1.026	1,2,3	27.37	46 PD	KB1	4	0.521	1,2,3
26.98	96 DM	LB2	3	0.685	1	27.39	88 RA	LY1	3	0.695	1,2,3
27.00	79 AU	LB10	2	1.028	1,2	27.39	24 CR	KB1	1	2.085	1,2,3
27.00	74 V	LY4	2	1.028	1,2	27.39	24 CR	KB3	1	2.085	1,2
27.01	64 GD	LA2	1	2.057	1,2,3	27.39	51 SB	KB1	5	0.417	1,2,3
27.05	98 DF	LY1	4	0.515	1	27.40	67 HO	LL	1	2.086	1,2,3
27.05	87 FR	LA1	2	1.030	1,2,3	27.43	40 ZR	KB5	3	0.696	1
27.06	92 U	LB10	3	0.687	1,2	27.43	35 BR	KA2	2	1.044	1,2,3
27.10	75 RE	LY2	2	1.032	1,2,3	27.45	51 SB	KB3	5	0.418	1,2
27.16	49 IN	KA2	4	0.517	1,2,3	27.45	33 AS	KB2	2	1.045	1,2,3
27.16	80 HG	LB3	2	1.034	1,2,3	27.47	59 PR	LB7	1	2.091	1,2
27.16	46 PD	KB5	4	0.517	1	27.51	93 NP	LB1	3	0.698	1,2,3
27.18	51 SB	KB5	5	0.414	1	27.56	80 HG	LB1	2	1.049	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS						27.56 TO 28.27					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
27.56	33 AS	KB5	2	1.049	1,2	27.91	78 PT	LB10	2	1.062	1,2
27.59	59 PR	LB9	1	2.100	1,2	27.91	91 PA	LB10	3	0.708	1,2
27.59	79 AU	LB7	2	1.050	1,2	27.93	60 ND	LB3	1	2.126	1,2,3
27.59	81 TL	LB6	2	1.050	1,2,3	27.95	42 MO	KA1	3	0.709	1,2,3
27.59	54 XE	KA2	5	0.420	1,2,3	27.99	92 U	LB3	3	0.710	1,2,3
27.61	25 MN	KA1	1	2.102	1,2,3	27.99	73 TA	LY4	2	1.065	1,2
27.63	95 AM	LB2	3	0.701	1,3	27.99	50 SN	KB2	5	0.426	1,2,3
27.63	91 PA	LB9	3	0.701	1,2	28.00	63 EU	LN	1	2.131	1
27.64	60 ND	LB6	1	2.104	1,2,3	28.01	63 EU	LA2	1	2.132	1,2,3
27.67	40 ZR	KB1	3	0.702	1,2,3	28.04	92 U	LL	2	1.067	2,3
27.67	40 ZR	KB3	3	0.702	1,2	28.04	56 BA	LY3	1	2.134	1,2,3
27.67	25 MN	KA2	1	2.106	1,2,3	28.07	74 W	LY2	2	1.068	1,2,3
27.68	59 PR	LB10	1	2.107	1,2	28.07	79 AU	LB3	2	1.068	1,2,3
27.69	78 PT	LB9	2	1.054	1,2	28.10	86 RN	LA2	2	1.069	1
27.72	58 CE	LY5	1	2.110	1,2	28.10	56 BA	LY2	1	2.138	1,2,3
27.77	76 OS	LY5	2	1.057	1,2	28.11	42 MO	KA2	3	0.713	1,2,3
27.77	86 RN	LA1	2	1.057	1	28.12	48 CD	KA1	4	0.535	1,2,3
27.77	33 AS	KB1	2	1.057	1,2,3	28.12	79 AU	LB2	2	1.070	1,2,3
27.80	33 AS	KB3	2	1.058	1,2	28.12	45 RH	KB2	4	0.535	1,2,3
27.83	83 BI	LN	2	1.059	1,2,3	28.15	57 LA	LY1	1	2.142	1,2,3
27.84	59 PR	LB2	1	2.119	1,2,3	28.18	80 HG	LB4	2	1.072	1,2,3
27.85	97 BK	LY1	4	0.530	1	28.18	78 PT	LB5	2	1.072	1,2
27.87	63 EU	LA1	1	2.121	1,2,3	28.23	87 FR	LY1	3	0.716	1,2,3
27.88	75 RE	LY1	2	1.061	1,2,3	28.23	74 W	LY6	2	1.074	1,2
27.91	74 W	LY3	2	1.062	1,2,3	28.27	88 RA	LY5	3	0.717	1,2

EDDT CRYSTAL, D# 4.404 ANGSTROMS						28.31 TO 29.06					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
28.31	94 PU	LB2	3	0.718	1	28.71	45 RH	KB1	4	0.546	1,2,3
28.34	48 CD	KA2	4	0.539	1,2,3	28.75	39 Y	KB2	3	0.729	1,2,3
28.36	66 DY	LL	1	2.158	1,2,3	28.77	75 RE	LY5	2	1.094	1,2
28.39	50 SN	KB5	5	0.432	1	28.77	58 CE	LB9	1	2.198	1,2
28.39	92 U	LB1	3	0.720	1,2,3	28.79	53 I	KA2	5	0.438	1,2,3
28.39	80 HG	LB6	2	1.080	1,2,3	28.79	59 PR	LB6	1	2.190	1,2,3
28.44	78 PT	LB7	2	1.082	1,2	28.79	90 TH	LB10	3	0.730	1,2
28.44	45 RH	KB5	4	0.541	1	28.85	77 IR	LB10	2	1.097	1,2
28.46	53 I	KA1	5	0.433	1,2,3	28.85	85 AT	LA2	2	1.097	1
28.48	60 ND	LB4	1	2.167	1,2,3	28.86	58 CE	LB10	1	2.195	1,2
28.48	60 ND	LB1	1	2.167	1,2,3	28.87	91 PA	LB3	3	0.732	1,2,3
28.50	79 AU	LB1	2	1.084	1,2,3	28.90	73 TA	LY3	2	1.099	1,2,3
28.51	90 TH	LB9	3	0.723	1,2	28.90	74 W	LY1	2	1.099	1,2,3
28.52	85 AT	LA1	2	1.085	1	28.91	62 SM	LA1	1	2.199	1,2,3
28.58	55 CS	LY4	1	2.174	1,2	28.95	39 Y	KB5	3	0.734	1
28.59	50 SN	KB1	5	0.435	1,2,3	28.98	78 PT	LB2	2	1.102	1,2,3
28.63	92 U	LB5	3	0.726	1,2	28.99	57 LA	LY5	1	2.205	1,2
28.66	58 CE	LB7	1	2.180	1,2	29.01	72 HF	LY4	2	1.103	1,2
28.66	50 SN	KB3	5	0.436	1,2	29.04	78 PT	LB3	2	1.104	1,2,3
28.66	77 IR	LB9	2	1.090	1,2	29.04	92 U	LB7	3	0.736	1,2
28.67	39 Y	KB4	3	0.727	2	29.04	93 NP	LB2	3	0.736	1,2,3
28.69	91 PA	LL	2	1.091	1,2,3	29.05	58 CE	LB2	1	2.209	1,2,3
28.71	45 RH	KB3	4	0.546	1,2	29.06	62 SM	LA2	1	2.210	1,2,3
28.71	82 PB	LN	2	1.092	1,2,3	29.06	73 TA	LY2	2	1.105	1,2,3
28.71	96 CM	LY1	4	0.546	1	29.06	34 SE	KA1	2	1.105	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS						29.09 TO 29.94					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
29.09	77 IR	L85	2	1.106	1,2	29.52	92 U	L84	3	0.748	1,2,3
29.12	79 AU	L84	2	1.107	1,2,3	29.57	95 AM	LY1	4	0.562	1,3
29.16	59 PR	L83	1	2.217	1,2,3	29.57	44 RU	K82	4	0.562	1,2,3
29.16	86 RN	LY1	3	0.739	1	29.60	41 NB	KA2	3	0.750	1,2,3
29.17	62 SM	LN	1	2.218	1,2,3	29.63	76 OS	L89	2	1.126	1,2
29.17	34 SE	KA2	2	1.109	1,2,3	29.63	84 PO	LA2	2	1.126	1,2,3
29.22	79 AU	L86	2	1.111	1,2,3	29.67	52 TE	KA1	5	0.451	1,2,3
29.24	39 Y	K83	3	0.741	1,2	29.67	59 PR	L84	1	2.255	1,2,3
29.24	39 Y	K81	3	0.741	1,2,3	29.67	49 IN	K85	5	0.451	1
29.26	49 IN	K82	5	0.445	1,2,3	29.68	47 AG	KA2	4	0.564	1,2,3
29.28	91 PA	L81	3	0.742	1,2,3	29.68	81 TL	LN	2	1.128	1,2,3
29.30	84 PO	LA1	2	1.114	1,2,3	29.71	59 PR	L81	1	2.258	1,2,3
29.30	73 TA	LY6	2	1.114	1,2	29.71	32 GE	K81	2	1.129	1,2,3
29.33	77 IR	L87	2	1.115	1,2	29.71	32 GE	K83	2	1.129	1,2
29.33	90 TH	LL	2	1.115	1,2,3	29.79	74 W	LY5	2	1.132	1,2
29.37	55 CS	LY3	1	2.233	1,2,3	29.80	90 TH	L83	3	0.755	1,2,3
29.38	65 TB	LL	1	2.234	1,2,3	29.80	91 PA	L87	3	0.755	1,2
29.38	32 GE	K82	2	1.117	1,2,3	29.80	92 U	L82	3	0.755	1,2,3
29.40	91 PA	L85	3	0.745	1,2	29.82	76 OS	L810	2	1.133	1,2
29.41	47 AG	KA1	4	0.559	1,2,3	29.86	23 V	K85	1	2.269	1,2
29.43	55 CS	LY2	1	2.237	1,2,3	29.87	77 IR	L82	2	1.135	1,2,3
29.44	32 GE	K85	2	1.119	1,2	29.90	44 RU	K85	4	0.568	1
29.44	41 NB	KA1	3	0.746	1,2,3	29.94	49 IN	K81	5	0.455	1,2,3
29.47	78 PT	L81	2	1.120	1,2,3	29.94	49 IN	K83	5	0.455	1,2
29.48	56 BA	LY1	1	2.241	1,2,3	29.94	57 LA	L87	1	2.275	1,2

EDDF CRYSTAL, D# 4.404 ANGSTROMS						29.95 TO 30.87					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
29.95	73 TA	LY1	2	1.138	1,2,3	30.21	90 TH	LB5	3	0.765	1,2
29.95	72 HF	LY3	2	1.138	1,2,3	30.21	90 TH	LB1	3	0.765	1,2,3
30.00	52 TE	KA2	5	0.456	1,2,3	30.25	76 OS	LB7	2	1.149	1,2
30.00	76 CS	LB5	2	1.140	1,2	30.31	57 LA	LB2	1	2.303	1,2,3
30.02	58 CE	LB6	1	2.281	1,2,3	30.37	88 RA	LB9	3	0.769	1,2
30.03	77 IR	LB3	2	1.141	1,2,3	30.38	56 BA	LY5	1	2.308	1,2
30.03	57 LA	LB9	1	2.282	1,2	30.41	83 BI	LA2	2	1.155	1,2,3
30.04	61 FM	LA1	1	2.283	1,2,3	30.41	72 HF	LY6	2	1.155	1,2
30.04	83 EI	LY4	3	0.761	1,2	30.41	91 PA	LB4	3	0.770	1,2,3
30.06	23 V	KB3	1	2.284	1,2	30.42	58 CE	LB3	1	2.311	1,2,3
30.06	23 V	KB1	1	2.284	1,2,3	30.44	64 GD	LL	1	2.312	1,2,3
30.06	78 FT	LB4	2	1.142	1,2,3	30.45	38 SR	KB2	3	0.771	1,2,3
30.08	71 LU	LY4	2	1.143	1	30.49	94 PU	LY1	4	0.579	1
30.11	44 FU	KB1	4	0.572	1,2,3	30.49	77 IR	LB1	2	1.158	1,2,3
30.11	72 HF	LY2	2	1.144	1,2,3	30.57	90 TH	LB7	3	0.774	1,2
30.11	78 FT	LB6	2	1.144	1,2,3	30.57	91 PA	LB2	3	0.774	1,2,3
30.11	83 BI	LA1	2	1.144	1,2,3	30.61	48 CD	KB2	5	0.465	1,2,3
30.13	85 AT	LY1	3	0.763	1	30.61	38 SR	KB5	3	0.775	1
30.14	57 LA	LB10	1	2.290	1,2	30.61	88 RA	LB10	3	0.775	1,2
30.14	24 CR	KA1	1	2.290	1,2,3	30.65	80 HG	LN	2	1.164	1,2,3
30.17	61 FM	LA2	1	2.292	1	30.68	75 RE	LB9	2	1.165	1,2
30.17	84 PO	LY3	3	0.764	1,2,3	30.73	88 RA	LL	2	1.167	1,2,3
30.17	84 PO	LY6	3	0.764	1,2	30.81	46 PD	KA1	4	0.585	1,2,3
30.17	44 RU	KB3	4	0.573	1,2	30.81	76 OS	LB2	2	1.170	1,2,3
30.19	24 CR	KA2	1	2.294	1,2,3	30.87	75 RE	LB10	2	1.172	1,2

EDDT CRYSTAL, D# 4.404 ANGSTROMS						30.89 TO 31.54					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
30.89	73 TA	LY5	2	1.173	1,2	31.22	40 ZR	KA2	3	0.790	1,2,3
30.92	55 CS	LY1	1	2.348	1,2,3	31.22	71 LU	LY2	2	1.185	1,2,3
30.93	38 SR	KB3	3	0.783	1,2	31.22	60 ND	LA1	1	2.370	1,2,3
30.93	38 SR	KB1	3	0.783	1,2,3	31.22	70 YB	LY4	2	1.185	1,2
30.93	58 CE	LB4	1	2.349	1,2,3	31.22	83 BI	LY6	3	0.790	1,2
30.95	51 SB	KA1	5	0.470	1,2,3	31.24	82 PB	LA2	2	1.186	1,2,3
30.95	82 PB	LA1	2	1.175	1,2,3	31.24	75 RE	LB7	2	1.186	1,2
30.97	33 AS	KA1	2	1.176	1,2,3	31.29	51 SB	KA2	5	0.475	1,2,3
31.00	75 RE	LB5	2	1.177	1,2	31.29	48 CD	KB1	5	0.475	1,2,3
31.03	77 IR	LB6	2	1.178	1,2,3	31.30	56 BA	LB9	1	2.376	1,2
31.03	58 CE	LB1	1	2.356	1,2,3	31.30	98 CF	LA1	3	0.792	1
31.06	40 ZR	KA1	3	0.786	1,2,3	31.30	91 PA	LY4	4	0.594	1,2
31.06	82 PB	LY4	3	0.786	1	31.34	57 LA	LB6	1	2.379	1,2,3
31.06	72 HF	LY1	2	1.179	1,2,3	31.34	90 TH	LB4	3	0.793	1,2,3
31.06	71 LU	LY3	2	1.179	1,2,3	31.35	60 ND	LA2	1	2.380	1,3
31.08	76 OS	LB3	2	1.180	1,2,3	31.35	48 CD	KB3	5	0.476	1,2
31.08	43 TC	KB4	4	0.590	1	31.35	92 U	LY6	4	0.595	1,2
31.08	43 TC	KB2	4	0.590	1	31.38	90 TH	LB2	3	0.794	1,2,3
31.08	33 AS	KA2	2	1.180	1,2,3	31.45	56 BA	LB10	1	2.387	1,2
31.08	46 PD	KA2	4	0.590	1,2,3	31.46	93 NP	LY1	4	0.597	1,2,3
31.08	77 IR	LB4	2	1.180	1,2,3	31.46	83 BI	LY2	3	0.796	1,2,3
31.10	84 PO	LY1	3	0.787	1,2,3	31.50	53 I	LY4	1	2.391	1,2
31.14	92 U	LB6	3	0.788	1,2,3	31.52	31 GA	KB2	2	1.196	1,2,3
31.18	89 AC	LB1	3	0.789	1	31.52	92 U	LY3	4	0.598	1,2,3
31.18	83 BI	LY3	3	0.789	1,2,3	31.54	31 GA	KB5	2	1.197	1,2

EDCT CRYSTAL, D# 4.404 ANGSTROMS						31.54 TO 32.41					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
31.54	76 OS	LB1	2	1.197	1,2,3	32.03	97 BK	LA1	3	0.810	1
31.56	63 EU	LL	1	2.395	1,2,3	32.03	72 HF	LY5	2	1.215	1,2
31.57	71 LU	LY6	2	1.198	1,2	32.10	47 AG	KB2	5	0.487	1,2,3
31.68	56 BA	LB2	1	2.404	1,2,3	32.11	76 OS	LB4	2	1.218	1,2,3
31.68	43 TC	KB3	4	0.601	1,2	32.11	81 TL	LY4	3	0.812	1,2
31.70	79 AU	LN	2	1.203	1,2,3	32.14	81 TL	LA2	2	1.219	1,2,3
31.73	74 W	LB9	2	1.204	1,2	32.15	83 BI	LY1	3	0.813	1,2,3
31.73	43 TC	KB1	4	0.602	1,2,3	32.16	75 RE	LB3	2	1.220	1,2,3
31.74	60 ND	LN	1	2.409	1,2,3	32.19	88 RA	LB1	3	0.814	1,2,3
31.74	88 RA	LB3	3	0.803	1,2,3	32.19	89 AC	LB2	3	0.814	1
31.76	57 LA	LB3	1	2.410	1,2,3	32.22	70 YB	LY3	2	1.222	1,2,3
31.79	98 CF	LB1	4	0.603	1	32.22	71 LU	LY1	2	1.222	1,2,3
31.79	98 CF	LA2	3	0.804	1	32.22	90 TH	LY4	4	0.611	1,2
31.81	81 TL	LA1	2	1.207	1,2,3	32.23	82 PB	LY3	3	0.815	1,2,3
31.81	75 RE	LB2	2	1.207	1,2,3	32.26	53 I	LY2	1	2.447	1,2,3
31.83	92 U	LN	3	0.805	1,2,3	32.26	53 I	LY3	1	2.447	1,2
31.84	31 GA	KB1	2	1.208	1,2,3	32.27	88 RA	LB7	3	0.816	1,2
31.84	31 GA	KB3	2	1.208	1,2	32.27	37 RB	KB2	3	0.816	1,2,3
31.85	55 CS	LY5	1	2.417	1,2	32.27	74 W	LB7	2	1.224	1,2
31.87	88 RA	LB5	3	0.806	1,2	32.29	57 LA	LB4	1	2.449	1,2,3
31.89	92 U	LY2	4	0.605	1,2,3	32.31	82 PB	LY6	3	0.817	1,2
31.95	91 PA	LB6	3	0.808	1,2,3	32.33	45 RH	KA1	4	0.613	1,2,3
31.95	74 W	LB10	2	1.212	1,2	32.33	91 PA	LY6	4	0.613	1,2
31.97	76 OS	LB6	2	1.213	1,2,3	32.37	50 SN	KA1	5	0.491	1,2,3
32.03	74 W	LB5	2	1.215	1,2	32.41	57 LA	LB1	1	2.458	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS						32.41 TO 33.14					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
32.41	70 YB	LY2	2	1.229	1,2,3	32.79	78 PT	LN	2	1.243	1,2,3
32.41	69 TM	LY4	2	1.229	1	32.80	37 RB	KB1	3	0.829	1,2,3
32.44	92 U	LY1	4	0.615	1,2,3	32.80	37 RB	KB3	3	0.829	1,2
32.46	54 XE	LY1	1	2.462	1	32.80	91 PA	LN	3	0.829	1,2,3
32.48	82 PB	LY2	3	0.821	1,2,3	32.80	39 Y	KA1	3	0.829	1,2,3
32.48	59 PR	LA1	1	2.463	1,2,3	32.80	96 CM	LA1	3	0.829	1
32.50	47 AG	KB5	5	0.493	1	32.84	47 AG	KB3	5	0.498	1,2
32.52	97 BK	LA2	3	0.822	1	32.84	74 W	LB2	2	1.245	1,2,3
32.52	37 RB	KB5	3	0.822	1	32.87	73 TA	LB9	2	1.246	1,2
32.54	91 PA	LY3	4	0.617	1,2,3	32.87	55 CS	LB10	1	2.492	1,2
32.60	45 RH	KA2	4	0.618	1,2,3	32.92	91 PA	LY2	4	0.624	1,2,3
32.61	59 PR	LA2	1	2.473	1,2,3	32.95	22 TI	KB5	1	2.498	1,2
32.64	50 SN	KA2	5	0.495	1,2,3	32.96	39 Y	KA2	3	0.833	1,2,3
32.68	75 RE	LB1	2	1.239	1,2,3	33.00	75 RE	LB6	2	1.251	1,2,3
32.68	55 CS	LB9	1	2.478	1,2	33.02	23 V	KA1	1	2.503	1,2,3
32.71	42 MO	KB4	4	0.620	2	33.05	88 RA	LB2	3	0.835	1,2,3
32.73	80 HG	LA1	2	1.241	1,2,3	33.06	80 HG	LA2	2	1.253	1,2,3
32.73	62 SM	LL	1	2.482	1,2,3	33.07	23 V	KA2	1	2.507	1,2,3
32.73	56 BA	LB6	1	2.482	1,2,3	33.09	42 MC	KB5	4	0.627	1
32.76	90 TH	LB6	3	0.828	1,2,3	33.09	32 GE	KA1	2	1.254	1,2,3
32.76	97 BK	LB1	4	0.621	1	33.09	73 TA	LB10	2	1.254	1,2
32.76	42 MO	KB2	4	0.621	1,2,3	33.11	73 TA	LB5	2	1.255	1,2
32.77	55 CS	LB7	1	2.485	1,2	33.13	55 CS	LB2	1	2.511	1,2,3
32.77	47 AG	KB1	5	0.497	1,2,3	33.13	52 TE	LY4	1	2.511	1,2
32.79	70 YB	LY6	2	1.243	1,2	33.14	59 PR	LN	1	2.512	1,2,3

EDCT CRYSTAL, D# 4.404 ANGSTROMS						33.17 TO 34.06					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
33.17	22 TI	KB1	1	2.514	1,2,3	33.58	95 AM	LA1	3	0.848	1,3
33.17	22 TI	KB3	1	2.514	1,2	33.63	69 TM	LY2	2	1.274	1,2,3
33.19	56 BA	LB3	1	2.516	1,2,3	33.66	46 PD	KB2	5	0.510	1,2,3
33.19	32 GE	KA2	2	1.258	1,2,3	33.68	68 ER	LY4	2	1.276	1,2
33.21	83 BI	LY5	3	0.839	1,2	33.68	79 AU	LA1	2	1.276	1,3
33.21	80 HG	LY4	3	0.839	1,2	33.72	56 BA	LB4	1	2.555	1,2,3
33.22	75 RE	LB4	2	1.259	1,2,3	33.74	96 CM	LB1	4	0.639	1
33.25	87 FR	LB1	3	0.840	1,2,3	33.79	49 IN	KA1	5	0.512	1,2,3
33.25	82 PB	LY1	3	0.840	1,2,3	33.81	58 CE	LA1	1	2.561	1,2,3
33.25	71 LU	LY5	2	1.260	1,2	33.82	90 TH	LN	3	0.854	1,2,3
33.29	81 TL	LY3	3	0.841	1,2,3	33.85	74 W	LB1	2	1.282	1,2,3
33.29	96 CM	LA2	3	0.841	1	33.89	56 BA	LB1	1	2.567	1,2,3
33.29	88 RA	LB4	3	0.841	1,2,3	33.89	52 TE	LY3	1	2.567	1,2
33.33	74 W	LB3	2	1.263	1,2,3	33.89	52 TE	LY2	1	2.567	1,3
33.36	90 TH	LY6	4	0.632	1,2	33.90	90 TH	LY2	4	0.642	1,2,3
33.36	73 TA	LB7	2	1.264	1,2	33.90	73 TA	LB2	2	1.284	1,2,3
33.36	42 MO	KB1	4	0.632	1,2,3	33.90	77 IR	LN	2	1.284	1,2,3
33.41	81 TL	LY6	3	0.844	1,2	33.90	30 ZN	KB2	2	1.284	1,2,3
33.41	42 MO	KB3	4	0.633	1,2	33.93	30 ZN	KB5	2	1.285	1,2
33.47	91 PA	LY1	4	0.634	1,2,3	33.93	58 CE	LA2	1	2.570	1,2,3
33.47	70 YB	LY1	2	1.268	1,2,3	33.96	44 RU	KA1	4	0.643	1,2,3
33.47	69 TM	LY3	2	1.268	1,2,3	33.98	87 FR	LB2	3	0.858	1,2,3
33.52	92 U	LY5	4	0.635	1,2	34.00	98 CF	LY1	5	0.515	1
33.58	81 TL	LY2	3	0.848	1,2,3	34.01	79 AU	LA2	2	1.288	1,2,3
33.58	90 TH	LY3	4	0.636	1,2,3	34.06	74 W	LB6	2	1.290	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS						34.06 TO 34.92					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
34.06	72 HF	LB9	2	1.290	1,2	34.50	90 TH	LY1	4	0.653	1,2,3
34.06	95 AM	LA2	3	0.860	1,3	34.51	88 RA	LB6	3	0.871	1,2,3
34.06	69 TM	LY6	2	1.290	1	34.51	36 KR	KB5	3	0.871	1,2
34.09	53 I	LY1	1	2.582	1,2,3	34.53	73 TA	LB3	2	1.307	1,2,3
34.13	46 PD	KB5	5	0.517	1	34.55	41 NB	KB2	4	0.654	1,2,3
34.13	49 IN	KA2	5	0.517	1,2,3	34.60	80 HG	LY6	3	0.873	1,2
34.17	44 RU	KA2	4	0.647	1,2,3	34.61	58 CE	LN	1	2.620	1,2,3
34.20	30 ZN	KB1	2	1.295	1,2,3	34.61	91 PA	LY5	4	0.655	1,2
34.24	55 CS	LB6	1	2.593	1,2,3	34.68	80 HG	LY2	3	0.875	1,2,3
34.28	72 HF	LB10	2	1.298	1,2	34.68	38 SR	KA1	3	0.875	1,2,3
34.28	72 HF	LB5	2	1.298	1,2	34.69	78 PT	LA1	2	1.313	1,2,3
34.28	88 RA	LY4	4	0.649	1,2	34.69	54 XE	LB2	1	2.626	1
34.31	36 KR	KB2	3	0.866	1,2,3	34.72	55 CS	LB3	1	2.628	1,2,3
34.31	86 RN	LB1	3	0.866	1	34.75	68 ER	LY3	2	1.315	1,2,3
34.31	36 KR	KB4	3	0.866	2	34.75	69 TM	LY1	2	1.315	1,2,3
34.31	82 PB	LY5	3	0.866	1,2	34.77	83 BI	LL	2	1.316	1,2,3
34.39	74 W	LB4	2	1.302	1,2,3	34.77	95 AM	LB1	4	0.658	1,3
34.39	94 PU	LA1	3	0.868	1	34.80	36 KR	KB1	3	0.878	1,2,3
34.39	81 TL	LY1	3	0.868	1,2,3	34.84	36 KR	KB3	3	0.879	1,2
34.41	46 PD	KB1	5	0.521	1,2,3	34.84	38 SR	KA2	3	0.879	1,2,3
34.41	46 PD	KB3	5	0.521	1,2	34.87	51 SB	LY4	1	2.639	1,2
34.43	80 HG	LY3	3	0.869	1,2,3	34.88	41 NB	KB5	4	0.660	1
34.50	98 CF	LB2	4	0.653	1	34.88	94 PU	LA2	3	0.880	1
34.50	72 HF	LB7	2	1.306	1,2	34.91	68 ER	LY2	2	1.321	1,2,3
34.50	70 YB	LY5	2	1.306	1,2	34.92	86 RN	LB2	3	0.881	1

EDDT CRYSTAL, D# 4.404 ANGSTROMS						34.94 TO 35.87					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
34.94	67 HO	LY4	2	1.322	1,2	35.54	31 GA	KA2	2	1.344	1,2,3
34.99	78 PT	LA2	2	1.324	1,2,3	35.58	78 PT	LY4	3	0.897	1,2
35.02	97 BK	LY1	5	0.530	1	35.58	80 HG	LY1	3	0.897	1,2,3
35.05	72 HF	LB2	2	1.326	1,2,3	35.59	43 TC	KA1	4	0.673	2,3
35.07	73 TA	LB1	2	1.327	1,2,3	35.59	73 TA	LB4	2	1.346	1,2,3
35.10	76 OS	LN	2	1.328	1,2,3	35.59	88 RA	LY6	4	0.673	1,2
35.11	53 I	LY5	1	2.657	1,2	35.62	79 AU	LY3	3	0.898	1,2,3
35.18	73 TA	LB6	2	1.331	1,2,3	35.62	83 BI	LB9	3	0.698	1,2
35.21	41 NB	KB1	4	0.666	1,2,3	35.63	51 SB	LY2	1	2.695	1,2,3
35.21	41 NB	KB3	4	0.666	1,2	35.63	48 CD	KA2	5	0.539	1,2,3
35.22	57 LA	LA1	1	2.665	1,2,3	35.63	51 SB	LY3	1	2.695	1,2
35.24	55 CS	LB4	1	2.666	1,2,3	35.65	89 AC	LY1	4	0.674	1
35.25	93 NP	LA1	3	0.889	1,2,3	35.66	84 PO	LB5	3	0.899	1,2
35.32	71 LU	LB9	2	1.336	1,2	35.67	71 LU	LB7	2	1.349	1,2
35.35	57 LA	LA2	1	2.674	1,2,3	35.70	90 TH	LY5	4	0.675	1,2
35.36	45 RH	KB2	5	0.535	1,2,3	35.70	88 RA	LY3	4	0.675	1,2,3
35.36	48 CD	KA1	5	0.535	1,2,3	35.70	82 PB	LL	2	1.350	1,2,3
35.37	97 BK	LB2	4	0.669	1	35.73	77 IR	LA1	2	1.351	1,2,3
35.37	60 ND	LL	1	2.676	1,2,3	35.74	93 NP	LA2	3	0.901	1
35.43	31 GA	KA1	2	1.340	1,2,3	35.76	43 TC	KA2	4	0.676	2,3
35.46	85 AT	LB1	3	0.894	1	35.77	45 RH	KB5	5	0.541	1
35.47	55 CS	LB1	1	2.683	1,2,3	35.78	72 HF	LB3	2	1.353	1,2,3
35.48	71 LU	LB5	2	1.342	1,2	35.82	79 AU	LY6	3	0.903	1,2
35.50	81 TL	LY5	3	0.895	1,2	35.84	69 TM	LY5	2	1.355	1,2
35.51	71 LU	LB10	2	1.343	1,2	35.87	79 AU	LY2	3	0.904	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS						35.87 TO 36.81					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
35.87	94 PU	LB1	4	0.678	1	36.36	92 U	LB10	4	0.687	1,2
35.87	52 TE	LY1	1	2.712	1,2,3	36.36	22 TI	KA1	1	2.748	1,2,3
35.88	53 I	LB9	1	2.713	1,2	36.36	66 DY	LY4	2	1.374	1,2
35.91	83 BI	LB10	3	0.905	1,2	36.39	53 I	LB2	1	2.750	1,2,3
35.91	85 AT	LB2	3	0.905	1	36.41	22 TI	KA2	1	2.752	1,2,3
35.97	53 I	LB10	1	2.720	1,2	36.52	40 ZR	KB2	4	0.690	1,2,3
35.99	88 RA	LN	3	0.907	1,2,3	36.55	29 CU	KB2	2	1.381	2,3
36.03	77 IR	LA2	2	1.362	1,2,3	36.56	35 BR	KB2	3	0.921	1,2,3
36.03	92 U	LB9	4	0.681	1,2	36.58	21 SC	KB5	1	2.764	1,2
36.07	84 PO	LB3	3	0.909	1,2,3	36.58	29 CU	KB5	2	1.382	2
36.08	68 ER	LY1	2	1.364	1,2,3	36.60	92 U	LA2	3	0.922	1,2,3
36.08	88 RA	LY2	4	0.682	1,2,3	36.60	84 PO	LB1	3	0.922	1,2,3
36.08	67 HO	LY3	2	1.364	1,2,3	36.63	70 YB	LB9	2	1.384	1,2
36.11	45 RH	KB1	5	0.546	1,2,3	36.66	81 TL	LL	2	1.385	1,2,3
36.11	45 RH	KB3	5	0.546	1,2	36.69	80 HG	LY5	3	0.924	1,2
36.11	96 CM	LY1	5	0.546	1	36.71	70 YB	LB5	2	1.387	1,2
36.11	53 I	LB7	1	2.730	1,2	36.73	56 BA	LA1	1	2.775	1,2,3
36.15	92 U	LA1	3	0.911	1,2,3	36.73	35 BR	KB5	3	0.925	1,2
36.25	57 LA	LN	1	2.740	1,2,3	36.76	50 SN	LY4	1	2.777	1,2
36.25	67 HO	LY2	2	1.370	1,2,3	36.77	37 RB	KA1	3	0.926	1,2,3
36.25	71 LU	LB2	2	1.370	1,2,3	36.77	83 BI	LB5	3	0.926	1,2
36.25	96 CM	LB2	4	0.685	1	36.80	88 RA	LY1	4	0.695	1,2,3
36.33	75 RE	LN	2	1.373	1,2,3	36.80	21 SC	KB1	1	2.780	1,2,3
36.36	72 HF	LB1	2	1.374	1,2,3	36.81	79 AU	LY1	3	0.927	1,2,3
36.36	72 HF	LB6	2	1.374	1,2,3	36.81	77 IR	LY4	3	0.927	1,2

EDDT CRYSTAL, D# 4.404 ANGSTROMS						36.81 TO 37.67					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
36.81	82 PB	LB9	3	0.927	1,2	37.13	91 PA	LB9	4	0.701	1,2
36.82	70 YB	LB10	2	1.391	1,2	37.13	95 AM	LB2	4	0.701	1,3
36.82	76 OS	LA1	2	1.391	1,2,3	37.14	83 BI	LB7	3	0.935	1,2
36.85	59 PR	LL	1	2.784	1,2,3	37.18	40 ZR	KB3	4	0.702	1,2
36.85	72 HF	LB4	2	1.392	1,2,3	37.18	40 ZR	KB1	4	0.702	1,2,3
36.85	40 ZR	KB5	4	0.696	1	37.21	95 AM	LY1	5	0.562	1,3
36.85	78 PT	LY3	3	0.928	1,2,3	37.21	44 RU	KB2	5	0.562	1,2,3
36.85	29 CU	KB1	2	1.392	1,2,3	37.24	68 ER	LY5	2	1.406	1,2
36.86	56 BA	LA2	1	2.785	1,2,3	37.30	83 BI	LB3	3	0.939	1,2,3
36.88	29 CU	KB3	2	1.393	1,2	37.35	47 AG	KA2	5	0.564	1,2,3
36.89	84 PO	LB2	3	0.929	1,2,3	37.48	70 YB	LB2	2	1.415	1,2,3
36.93	37 RB	KA2	3	0.930	1,2,3	37.51	91 PA	LB10	4	0.708	1,2
36.93	52 TE	LY5	1	2.790	1,2	37.52	50 SN	LY2	1	2.333	1,3
36.93	70 YB	LB7	2	1.395	1,2	37.54	66 DY	LY3	2	1.417	1,2,3
36.96	93 NP	LB1	4	0.698	1,2,3	37.54	67 HO	LY1	2	1.417	1,2,3
37.00	47 AG	KA1	5	0.559	1,2,3	37.55	91 PA	LA2	3	0.945	1,2,3
37.06	91 PA	LA1	3	0.933	1,2,3	37.56	42 MO	KA1	4	0.709	1,2,3
37.06	35 BR	KB3	3	0.933	1,2	37.58	53 I	LB6	1	2.837	1,2,3
37.06	35 BR	KB1	3	0.933	1,2,3	37.59	71 LU	LB6	2	1.419	1,2,3
37.10	71 LU	LB3	2	1.401	1,2,3	37.61	52 TE	LB9	1	2.839	1,2
37.10	78 PT	LY2	3	0.934	1,2,3	37.62	92 U	LB3	4	0.710	1,2,3
37.10	82 PB	LB10	3	0.934	1,2	37.62	44 RU	KB5	5	0.568	1
37.10	78 PT	LY6	3	0.934	1,2	37.63	84 PO	LB4	3	0.947	1,2,3
37.11	54 XE	LB1	1	2.803	1	37.65	74 W	LN	2	1.421	1,2,3
37.13	76 OS	LA2	2	1.402	1,2,3	37.67	80 HG	LL	2	1.422	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS						37.70 TO 38.72					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
37.70	66 DY	LY2	2	1.423	1,2,3	38.14	30 ZN	KA2	2	1.439	1,2,3
37.72	52 TE	LB10	1	2.847	1,2	38.17	92 U	LB1	4	0.720	1,2,3
37.73	71 LU	LB1	2	1.424	1,2,3	38.17	71 LU	LB4	2	1.440	1,2,3
37.77	51 SB	LY1	1	2.851	1,2,3	38.20	52 TE	LB2	1	2.882	1,2,3
37.78	42 MO	KA2	4	0.713	1,2,3	38.20	69 TM	LB10	2	1.441	1
37.81	65 TB	LY4	2	1.427	1,2	38.25	82 PB	LB7	3	0.962	1,2
37.84	83 BI	LB1	3	0.952	1,2,3	38.28	75 RE	LA2	2	1.444	1,2,3
37.88	82 PB	LB5	3	0.953	1,2	38.34	55 CS	LA1	1	2.892	1,2,3
37.89	44 RU	KB1	5	0.572	1,2,3	38.34	90 TH	LB9	4	0.723	1,2
37.92	56 BA	LN	1	2.862	1,2,3	38.34	81 TL	LB10	3	0.964	1,2
37.94	52 TE	LB7	1	2.863	1,2	38.34	58 CE	LL	1	2.892	1,2,3
37.95	87 FR	LY1	4	0.716	1,2,3	38.38	77 IR	LY2	3	0.965	1,2,3
37.96	44 RU	KB3	5	0.573	1,2	38.38	94 PU	LY1	5	0.579	1
37.96	83 BI	LB2	3	0.955	1,2,3	38.46	84 PO	LB6	3	0.967	1,2,3
37.98	75 RE	LA1	2	1.433	1,2,3	38.46	77 IR	LY6	3	0.967	1,2
38.00	79 AU	LY5	3	0.956	1,2	38.47	55 CS	LA2	1	2.902	1,2,3
38.00	88 RA	LY5	4	0.717	1,2	38.50	70 YB	LB3	2	1.452	1,2,3
38.00	90 TH	LA1	3	0.956	1,2,3	38.50	92 U	LB5	4	0.726	1,2
38.03	30 ZN	KA1	2	1.435	1,2,3	38.50	90 TH	LA2	3	0.968	1,2,3
38.05	81 TL	LB9	3	0.957	1,2	38.54	82 PB	LB3	3	0.969	1,2,3
38.06	94 PU	LB2	4	0.718	1	38.56	39 Y	KB4	4	0.727	2
38.09	78 PT	LY1	3	0.958	1,2,3	38.61	53 I	LB4	1	2.912	1,2,3
38.09	53 I	LB3	1	2.874	1,2,3	38.67	39 Y	KB2	4	0.729	1,2,3
38.13	77 IR	LY3	3	0.959	1,2,3	38.72	90 TH	LB10	4	0.730	1,2
38.13	76 OS	LY4	3	0.959	1,2	38.72	79 AU	LL	2	1.460	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS							38.78 TO 39.52						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
38.78	67 HJ	LY5	2	1.462	1,2		39.16	36 KR	KA2	3	0.984	1,2,3	
38.79	46 PJ	KA1	5	0.585	1,2,3		39.16	34 SE	KB5	3	0.984	1,2	
38.80	49 IV	LY4	1	2.926	1,2		39.16	74 W	LA1	2	1.476	1,2,3	
38.80	69 TM	LB2	2	1.463	1,2,3		39.19	65 TB	LY2	2	1.477	1,2,3	
38.83	91 PA	LB3	4	0.732	1,2,3		39.22	86 RN	LY1	4	0.739	1	
38.87	83 BI	LB4	3	0.977	1,2,3		39.22	71 LU	LN	2	1.478	1,2	
38.89	70 YB	LB6	2	1.466	1,2,3		39.25	80 HG	LB9	3	0.986	1,2	
38.89	51 SB	LY5	1	2.932	1,2		39.33	39 Y	KB1	4	0.741	1,2,3	
38.94	39 Y	KB5	4	0.734	1		39.33	78 PT	LY5	3	0.988	1,2	
38.96	53 I	LB1	1	2.937	1,2,3		39.33	39 Y	KB3	4	0.741	1,2	
39.00	89 AC	LA1	3	0.980	1		39.38	91 PA	LB1	4	0.742	1,2,3	
39.00	36 KR	KA1	3	0.980	1,2,3		39.41	68 ER	LB9	2	1.485	1,2	
39.00	34 SE	KB2	3	0.980	1,2,3		39.41	64 GD	LY4	2	1.485	1,2	
39.02	65 TB	LY3	2	1.471	1,2,3		39.41	81 TL	LB7	3	0.990	1,2	
39.02	73 BA	LN	2	1.471	1,2,3		39.41	91 PA	LY4	5	0.594	1,2	
39.04	81 BL	LB5	3	0.981	1,2		39.43	52 TE	LB6	1	2.971	1,2,3	
39.05	93 NP	LB2	4	0.736	1,2,3		39.44	51 SB	LB9	1	2.972	1,2	
39.05	92 U	LB7	4	0.736	1,2		39.45	77 IR	LY1	3	0.991	1,2,3	
39.08	66 DY	LY1	2	1.473	1,2,3		39.47	74 W	LA2	2	1.487	1,2,3	
39.08	82 PB	LB1	3	0.982	1,2,3		39.48	92 U	LY6	5	0.595	1,2	
39.12	82 PB	LB2	3	0.983	1,2,3		39.49	89 AC	LA2	3	0.992	1	
39.14	46 PD	KA2	5	0.590	1,2,3		39.49	34 SE	KB1	3	0.992	1,2,3	
39.14	43 FC	KB4	5	0.590	1		39.49	75 RE	LY4	3	0.992	1,2	
39.14	43 FC	KB2	5	0.590	1		39.49	76 OS	LY3	3	0.992	1,2,3	
39.16	70 YB	LB1	2	1.476	1,2,3		39.52	28 NI	KB2	2	1.489	1,2,3	

EDDT CRYSTAL, D# 4.404 ANGSTROMS						39.52 TO 40.46					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
39.52	28 NI	K85	2	1.489	1,2	39.91	57 LA	LL	1	3.006	1,2,3
39.54	83 BI	L86	3	0.993	1,2,3	39.95	52 TE	L83	1	3.009	1,2,3
39.54	34 SE	K83	3	0.993	1,2	39.96	69 TM	L83	2	1.505	1,2,3
39.54	51 SB	L810	1	2.979	1,2	39.96	43 TC	K81	5	0.602	1,2,3
39.55	49 IN	LY3	1	2.980	1,2	40.03	54 XE	LA1	1	3.015	1
39.55	49 IN	LY2	1	2.980	1,2,3	40.03	98 CF	L81	5	0.603	1
39.55	91 PA	L85	4	0.745	1,2	40.03	88 RA	LA1	3	1.005	1,2,3
39.58	70 YB	L84	2	1.491	1,2,3	40.10	91 PA	L87	4	0.755	1,2
39.60	41 NB	KA1	4	0.746	1,2,3	40.10	92 U	L82	4	0.755	1,2,3
39.62	93 NP	LY1	5	0.597	1,2,3	40.10	90 TH	L83	4	0.755	1,2,3
39.66	68 ER	L810	2	1.494	1,2	40.12	82 PB	L84	3	1.007	1,2,3
39.66	68 ER	L87	2	1.494	1,2	40.14	51 SB	L82	1	3.023	1,2,3
39.66	80 HG	L810	3	0.996	1,2	40.17	54 XE	LA2	1	3.025	1
39.69	92 U	LY3	5	0.598	1,2,3	40.17	92 U	LY2	5	0.605	1,2,3
39.72	92 U	L84	4	0.748	1,2,3	40.21	68 ER	L82	2	1.514	1,2,3
39.73	55 CS	LN	1	2.993	1,2,3	40.24	81 TL	L82	3	1.010	1,2,3
39.74	76 OS	LY2	3	0.998	1,2,3	40.24	80 HG	L85	3	1.010	1,2
39.80	78 PT	LL	2	1.499	1,2,3	40.24	69 TM	L86	2	1.515	1,2,3
39.83	28 NI	K81	2	1.500	1,2,3	40.26	21 SC	KA1	1	3.031	1,2,3
39.83	41 NB	KA2	4	0.750	1,2,3	40.31	21 SC	KA2	1	3.035	1,2,3
39.84	50 SN	LY1	1	3.001	1,2,3	40.32	66 DY	LY5	2	1.518	1,2
39.87	81 TL	L83	3	1.001	1,2,3	40.44	73 TA	LA1	2	1.522	1,2,3
39.87	76 OS	LY6	3	1.001	1,2	40.44	83 BI	LY4	4	0.761	1,2
39.90	51 SB	L87	1	3.005	1	40.45	81 TL	L81	3	1.015	1,2,3
39.90	43 TC	K83	5	0.601	1,2	40.46	52 TE	L84	1	3.046	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS						40.46 TC 41.37					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
40.46	72 HF	LN	2	1.523	1,2,3	40.94	91 PA	LB4	4	0.770	1,2,3
40.49	88 RA	LA2	3	1.016	1,2,3	40.96	77 IR	LL	2	1.541	1,2,3
40.55	85 AT	LY1	4	0.763	1	40.96	29 CU	KA1	2	1.541	1,2,3
40.59	90 TH	LY4	5	0.611	1,2	40.99	74 W	LY4	3	1.028	1,2
40.60	84 FO	LY3	4	0.764	1,2,3	40.99	79 AU	LB10	3	1.028	1,2
40.60	84 FO	LY6	4	0.764	1,2	40.99	38 SR	KB2	4	0.771	1,2,3
40.62	80 HG	LB7	3	1.019	1,2	41.00	91 PA	LY3	5	0.617	1,2,3
40.63	64 GD	LY3	2	1.529	1,2,3	41.00	50 SN	LY5	1	3.085	1,2
40.66	90 TH	LB1	4	0.765	1,2,3	41.05	29 CU	KA2	2	1.544	1,2,3
40.66	90 TH	LB5	4	0.765	1,2	41.05	63 EU	LY4	2	1.544	1,2
40.66	69 TM	LB1	2	1.530	1,2,3	41.05	69 TM	LB4	2	1.544	1,2,3
40.66	65 TB	LY1	2	1.530	1,2,3	41.07	45 RH	KA2	5	0.618	1,2,3
40.70	82 PB	LB6	3	1.021	1,2,3	41.07	20 CA	KB1	1	3.090	1,2,3
40.70	79 AU	LB9	3	1.021	1,2	41.07	87 FR	LA1	3	1.030	1,2,3
40.73	91 PA	LY6	5	0.613	1,2	41.16	75 RE	LY2	3	1.032	1,2,3
40.73	45 RH	KA1	5	0.613	1,2,3	41.16	90 TH	LB7	4	0.774	1,2
40.74	73 TA	LA2	2	1.533	1,2,3	41.16	91 PA	LB2	4	0.774	1,2,3
40.74	77 IR	LY5	3	1.022	1,2	41.19	67 HO	LB10	2	1.549	1
40.77	64 GD	LY2	2	1.534	1,2,3	41.21	88 RA	LB10	4	0.775	1,2
40.85	20 CA	KB5	1	3.074	1,2	41.21	42 MO	KB4	5	0.620	2
40.87	76 OS	LY1	3	1.025	1,2,3	41.21	38 SR	KB5	4	0.775	1
40.87	92 U	LY1	5	0.615	1,2,3	41.24	80 HG	LB3	3	1.034	1,2,3
40.88	88 RA	LB9	4	0.769	1,2	41.28	97 BK	LB1	5	0.621	1
40.89	52 TE	LB1	1	3.077	1,2,3	41.28	42 MO	KB2	5	0.621	1,2,3
40.91	75 RE	LY3	3	1.026	1,2,3	41.37	75 RE	LY6	3	1.037	1,2

EDDY CRYSTAL, D# 4.404 ANGSTROMS							41.42 TO 42.20						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
41.42	51 SB	LB6	1	3.115	1,2,3		41.88	84 PO	LY1	4	0.787	1,2,3	
41.42	50 SN	LB9	1	3.115	1,2		41.88	53 I	LA1	1	3.148	1,2,3	
41.45	81 TL	LB4	3	1.039	1,2,3		41.91	81 TL	LB6	3	1.050	1,2,3	
41.49	80 HG	LB2	3	1.040	1,2,3		41.91	79 AU	LB7	3	1.050	1,2	
41.49	91 PA	LY2	5	0.624	1,2,3		41.94	92 U	LB6	4	0.788	1,2,3	
41.49	79 AU	LB5	3	1.040	1,2		41.94	51 SB	LB3	1	3.152	1,2,3	
41.49	35 BR	KA1	3	1.040	1,2,3		41.96	65 TB	LY5	2	1.577	1	
41.51	50 SN	LB10	1	3.121	1,2		41.96	65 TB	LB5	2	1.577	2	
41.52	68 ER	LB3	2	1.561	1,2,3		41.98	50 SN	LB7	1	3.155	1,2	
41.57	87 FR	LA2	3	1.042	1		41.99	83 BI	LY3	4	0.789	1,2,3	
41.66	38 SR	KB3	4	0.783	1,2		41.99	89 AC	LB1	4	0.789	1	
41.66	38 SR	KB1	4	0.783	1,2,3		42.02	53 I	LA2	1	3.158	1,2,3	
41.66	35 BR	KA2	3	1.044	1,2,3		42.05	72 HF	LA2	2	1.580	1,2,3	
41.69	68 ER	LB6	2	1.567	1,2,3		42.05	40 ZR	KA2	4	0.790	1,2,3	
41.69	67 HO	LB2	2	1.567	1,2,3		42.05	42 MC	KB1	5	0.632	1,2,3	
41.70	42 MO	KB5	5	0.627	1		42.05	83 BI	LY6	4	0.790	1,2	
41.70	33 AS	KB2	3	1.045	1,2,3		42.05	90 TH	LY6	5	0.632	1,2	
41.70	56 BA	LL	1	3.135	1,2,3		42.08	78 PT	LB9	3	1.054	1,2	
41.73	48 CD	LY3	1	3.137	1,2		42.08	49 IN	LY1	1	3.162	1,2,3	
41.74	48 CD	LY2	1	3.138	1,2,3		42.12	42 MO	KB3	5	0.633	1,2	
41.74	72 HF	LA1	2	1.569	1,2,3		42.16	98 CF	LA1	4	0.792	1	
41.83	40 ZR	KA1	4	0.786	1,2,3		42.19	91 PA	LY1	5	0.634	1,2,3	
41.83	82 PB	LY4	4	0.786	1		42.19	76 OS	LL	2	1.585	1,2,3	
41.87	80 HG	LB1	3	1.049	1,2,3		42.20	86 RN	LA1	3	1.057	1	
41.87	33 AS	KB5	3	1.049	1,2		42.20	33 AS	KB1	3	1.057	1,2,3	

EDDT CRYSTAL, D# 4.404 ANGSTROMS						42.20 TO 43.25					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
42.20	76 OS	LY5	3	1.057	1,2	42.70	86 RN	LA2	3	1.069	1
42.22	90 TH	LB4	4	0.793	1,2,3	42.75	90 TH	LY2	5	0.642	1,2,3
42.24	33 AS	KB3	3	1.058	1,2	42.75	79 AU	LB2	3	1.070	1,2,3
42.24	68 ER	LB1	2	1.587	1,2,3	42.77	62 SM	LY4	2	1.606	1,2
42.26	92 U	LY5	5	0.635	1,2	42.77	88 RA	LB3	4	0.803	1,2,3
42.26	50 SN	LB2	1	3.175	1,2,3	42.80	66 DY	LB10	2	1.607	1
42.27	90 TH	LB2	4	0.794	1,2,3	42.82	44 RU	KA1	5	0.643	1,2,3
42.29	83 BI	LN	3	1.059	1,2,3	42.83	80 HG	LB4	3	1.072	1,2,3
42.33	90 TH	LY3	5	0.636	1,2,3	42.83	78 PT	LB5	3	1.072	1,2
42.36	63 EU	LY3	2	1.591	1,2,3	42.83	98 CF	LA2	4	0.804	1
42.37	75 RE	LY1	3	1.061	1,2,3	42.86	27 CO	KB5	2	1.609	1,2
42.38	83 BI	LY2	4	0.796	1,2,3	42.89	92 U	LN	4	0.805	1,2,3
42.38	64 GD	LY1	2	1.592	1,2,3	42.91	74 W	LY6	3	1.074	1,2
42.41	74 W	LY3	3	1.062	1,2,3	42.94	88 RA	LB5	4	0.806	1,2
42.41	78 PT	LB10	3	1.062	1,2	42.97	51 SB	LB1	1	3.226	1,2,3
42.47	51 SB	LB4	1	3.190	1,2,3	43.05	91 PA	LB6	4	0.808	1,2,3
42.52	63 EU	LY2	2	1.597	1,2,3	43.10	44 RU	KA2	5	0.647	1,2,3
42.54	73 TA	LY4	3	1.065	1,2	43.14	67 HO	LB3	2	1.619	1,2,3
42.54	96 CM	LB1	5	0.639	1	43.14	71 LU	LA1	2	1.619	1,2,3
42.58	66 DY	LB7	2	1.599	1,2	43.17	80 HG	LB6	3	1.080	1,2,3
42.61	66 DY	LB9	2	1.600	1	43.17	97 BK	LA1	4	0.810	1
42.62	92 U	LL	3	1.067	2,3	43.19	27 CO	KB1	2	1.621	1,2,3
42.63	68 ER	LB4	2	1.601	1,2,3	43.22	67 HO	LB6	2	1.622	1,2,3
42.66	74 W	LY2	3	1.063	1,2,3	43.24	88 RA	LY4	5	0.649	1,2
42.66	79 AU	LB3	3	1.063	1,2,3	43.25	66 DY	LB2	2	1.623	1,2,3

EDDY CRYSTAL, D# 4.404 ANGSTROMS						43.25 TO 44.22					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
43.25	78 PT	LB7	3	1.082	1,2	43.67	82 PB	LN	3	1.092	1,2,3
43.28	81 TL	LY4	4	0.812	1,2	43.73	53 I	LN	1	3.280	1,2,3
43.29	49 IN	LY5	1	3.249	1,2	43.75	64 GD	LY5	2	1.641	1
43.33	83 BI	LY1	4	0.813	1,2,3	43.75	75 RE	LY5	3	1.094	1,2
43.33	79 AU	LB1	3	1.084	1,2,3	43.78	82 PB	LY2	4	0.821	1,2,3
43.38	85 AT	LA1	3	1.085	1	43.84	37 RB	KB5	4	0.822	1
43.39	89 AC	LB2	4	0.814	1	43.84	97 BK	LA2	4	0.822	1
43.39	88 RA	LB1	4	0.814	1,2,3	43.85	52 TE	LA1	1	3.289	1,2,3
43.45	82 PB	LY3	4	0.815	1,2,3	43.87	95 AM	LB1	5	0.658	1,3
43.45	71 LU	LA2	2	1.630	1,2,3	43.88	85 AT	LA2	3	1.097	1
43.45	75 RE	LL	2	1.630	1,2,3	43.88	77 IR	LB10	3	1.097	1,2
43.50	37 RB	KB2	4	0.816	1,2,3	43.92	67 HO	LB1	2	1.647	1,2,3
43.50	88 RA	LB7	4	0.816	1,2	43.96	74 W	LY1	3	1.099	1,2,3
43.52	98 CF	LB2	5	0.653	1	43.96	73 TA	LY3	3	1.099	1,2,3
43.52	90 TH	LY1	5	0.653	1,2,3	43.98	52 TE	LA2	1	3.298	1,2,3
43.54	55 CS	LL	1	3.267	1,2,3	44.01	41 NB	KB5	5	0.660	1
43.56	82 PB	LY6	4	0.817	1,2	44.09	47 AG	LY2	1	3.306	1,3
43.56	49 IN	LB9	1	3.268	1,2	44.09	47 AG	LY3	1	3.306	1,2
43.57	50 SN	LB6	1	3.269	1,2,3	44.09	50 SN	LB3	1	3.306	1,2,3
43.59	41 NB	KB2	5	0.654	1,2,3	44.09	78 PT	LB2	3	1.102	1,2,3
43.59	77 IR	LB9	3	1.090	1,2	44.13	72 HF	LY4	3	1.103	1,2
43.61	70 YB	LN	2	1.636	1,2,3	44.15	62 SM	LY3	2	1.655	1,2,3
43.63	91 PA	LL	3	1.091	1,2,3	44.17	90 TH	LB6	4	0.828	1,2,3
43.64	49 IN	LB10	1	3.274	1,2	44.17	78 PT	LB3	3	1.104	1,2,3
43.66	91 PA	LY5	5	0.655	1,2	44.22	34 SE	KA1	3	1.105	1,2,3

EDCT CRYSTAL, D# 4.404 ANGSTROMS						44.22 TO 44.99					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
44.22	73 TA	LY2	3	1.105	1,2,3	44.61	50 SN	LB4	1	3.343	1,2,3
44.23	96 CM	LA1	4	0.829	1	44.63	70 YB	LA1	2	1.672	1,2,3
44.23	63 EU	LY1	2	1.658	1,2,3	44.64	90 TH	LL	3	1.115	1,2,3
44.23	28 NI	KA1	2	1.658	1,2,3	44.64	97 BK	LB2	5	0.669	1
44.23	37 RB	KB1	4	0.829	1,2,3	44.64	77 IR	LB7	3	1.115	1,2
44.23	39 Y	KA1	4	0.829	1,2,3	44.72	32 GE	KB2	3	1.117	1,2,3
44.23	37 RB	KB3	4	0.829	1,2	44.79	80 HG	LY4	4	0.839	1,2
44.23	91 PA	LN	4	0.829	1,2,3	44.79	74 W	LL	2	1.678	1,2,3
44.26	67 HO	LB4	2	1.659	1,2,3	44.79	83 BI	LY5	4	0.839	1,2
44.26	62 SM	LY2	2	1.659	1,2,3	44.81	32 GE	KB5	3	1.119	1,2
44.26	65 TB	LB7	2	1.659	1,2	44.82	20 CA	KA1	1	3.358	1,2,3
44.26	77 IR	LB5	3	1.106	1,2	44.85	87 FR	LB1	4	0.840	1,2,3
44.30	79 AU	LB4	3	1.107	1,2,3	44.85	78 PT	LB1	3	1.120	1,2,3
44.34	28 NI	KA2	2	1.662	1,2,3	44.85	82 PB	LY1	4	0.840	1,2,3
44.39	34 SE	KA2	3	1.109	1,2,3	44.88	66 DY	LB6	2	1.681	1,2,3
44.43	41 NB	KB1	5	0.666	1,2,3	44.88	66 DY	LB3	2	1.681	1,2,3
44.43	41 NB	KB3	5	0.666	1,2	44.88	20 CA	KA2	1	3.362	1,2,3
44.46	39 Y	KA2	4	0.833	1,2,3	44.91	81 TL	LY3	4	0.841	1,2,3
44.47	79 AU	LB6	3	1.111	1,2,3	44.91	96 CM	LA2	4	0.841	1
44.48	65 TB	LB10	2	1.667	1,2	44.91	65 TB	LB2	2	1.682	1,2,3
44.51	48 CD	LY1	1	3.336	1,2,3	44.91	88 RA	LB4	4	0.841	1,2,3
44.54	49 IN	LB2	1	3.33E	1,2,3	44.92	88 RA	LY6	5	0.673	1,2
44.57	88 RA	LB2	4	0.83E	1,2,3	44.92	43 TC	KA1	5	0.673	2,3
44.60	84 PO	LA1	3	1.114	1,2,3	44.93	70 YB	LA2	2	1.583	1,2,3
44.60	73 TA	LY6	3	1.114	1,2	44.99	89 AC	LY1	5	0.674	1

EDDT CRYSTAL, D# 4.404 ANGSTROMS						45.06 TO 46.18					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
45.06	90 TH	LY5	5	0.675	1,2	45.74	77 IR	LB3	3	1.141	1,2,3
45.06	88 RA	LY3	5	0.675	1,2,3	45.77	96 CM	LB2	5	0.685	1
45.07	81 TL	LY6	4	0.844	1,2	45.77	48 CD	LY5	1	3.425	1,2
45.10	84 PO	LA2	3	1.126	1,2,3	45.78	78 PT	LB4	3	1.142	1,2,3
45.10	76 OS	LB9	3	1.126	1,2	45.82	71 LU	LY4	3	1.143	1
45.13	43 TC	KA2	5	0.676	2,3	45.84	48 CD	LB9	1	3.430	1,2
45.19	81 TL	LN	3	1.128	1,2,3	45.86	87 FR	LB2	4	0.858	1,2,3
45.20	50 SN	LB1	1	3.385	1,2,3	45.86	78 PT	LB6	3	1.144	1,2,3
45.23	32 GE	KB3	3	1.129	1,2	45.86	83 BI	LA1	3	1.144	1,2,3
45.23	32 GE	KB1	3	1.129	1,2,3	45.86	72 HF	LY2	3	1.144	1,2,3
45.27	94 PU	LB1	5	0.678	1	45.91	92 U	LB10	5	0.687	1,2
45.30	69 TM	LN	2	1.696	1,2,3	45.92	49 IN	LB6	1	3.436	1,2,3
45.30	95 AM	LA1	4	0.848	1,3	45.94	48 CD	LB10	1	3.437	1,2
45.30	81 TL	LY2	4	0.848	1,2,3	45.95	52 TE	LN	1	3.438	1,2,3
45.36	74 W	LY5	3	1.132	1,2	45.96	51 SB	LA1	1	3.439	1,2,3
45.40	76 OS	LB10	3	1.133	1,2	45.98	66 DY	LB4	2	1.720	1,2,3
45.48	77 IR	LB2	3	1.135	1,2,3	45.98	95 AM	LA2	4	0.860	1,3
45.48	92 U	LB9	5	0.681	1,2	45.99	19 K	KB5	1	3.441	1,2
45.55	88 RA	LY2	5	0.682	1,2,3	46.06	64 GD	LB7	2	1.723	1,2
45.61	72 HF	LY3	3	1.138	1,2,3	46.08	76 OS	LB7	3	1.149	1,2
45.61	73 TA	LY1	3	1.138	1,2,3	46.09	51 SB	LA2	1	3.448	1,2,3
45.64	90 TH	LN	4	0.854	1,2,3	46.09	64 GD	LB9	2	1.724	1
45.64	63 EU	LY5	2	1.708	1,2	46.12	40 ZR	KB2	5	0.690	1,2,3
45.69	66 DY	LB1	2	1.710	1,2,3	46.15	69 TM	LA1	2	1.726	1,2,3
45.69	76 OS	LB5	3	1.140	1,2	46.18	19 K	KB1	1	3.454	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS						46.18 TO 47.17					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
46.18	62 SM	LY1	2	1.727	1,2,3	46.69	64 GD	LB2	2	1.745	1,2,3
46.20	73 TA	LL	2	1.728	1,2,3	46.71	65 TB	LB3	2	1.746	1,2,3
46.29	64 GD	LB10	2	1.731	1,2	46.71	80 HG	LY6	4	0.873	1,2
46.32	86 RN	LB1	4	0.866	1	46.71	80 HG	LN	3	1.164	1,2,3
46.32	82 PB	LY5	4	0.866	1,2	46.76	75 RE	LB9	3	1.165	1,2
46.32	36 KR	KB2	4	0.866	1,2,3	46.83	38 SR	KA1	4	0.875	1,2,3
46.32	36 KR	KB4	4	0.866	2	46.83	80 HG	LY2	4	0.875	1,2,3
46.33	72 HF	LY6	3	1.155	1,2	46.84	88 RA	LL	3	1.167	1,2,3
46.33	83 BI	LA2	3	1.155	1,2,3	46.90	91 PA	LB9	5	0.701	1,2
46.40	49 IN	LB3	1	3.470	1,2,3	46.90	95 AM	LB2	5	0.701	1,3
46.43	94 PU	LA1	4	0.868	1	46.93	49 IN	LB4	1	3.507	1,2,3
46.43	81 TL	LY1	4	0.868	1,2,3	46.97	76 OS	LB2	3	1.170	1,2,3
46.46	69 TM	LA2	2	1.737	1,2,3	46.97	40 ZR	KB1	5	0.702	1,2,3
46.46	77 IR	LB1	3	1.158	1,2,3	46.97	40 ZR	KB3	5	0.702	1,2
46.47	88 RA	LY1	5	0.695	1,2,3	47.00	36 KR	KB1	4	0.878	1,2,3
46.49	80 HG	LY3	4	0.869	1,2,3	47.00	68 ER	LN	2	1.756	1,2,3
46.54	40 ZR	KB5	5	0.696	1	47.03	26 FE	KB1	2	1.757	1,2,3
46.57	65 TB	LB6	2	1.741	1,2,3	47.03	48 CD	LB2	1	3.514	1,2,3
46.60	36 KR	KB5	4	0.871	1,2	47.05	38 SR	KA2	4	0.879	1,2,3
46.60	88 RA	LB6	4	0.871	1,2,3	47.05	75 RE	LB10	3	1.172	1,2
46.66	26 FE	KB5	2	1.744	1,2	47.05	36 KR	KB3	4	0.879	1,2
46.66	60 MD	LY4	2	1.744	1,2	47.10	73 TA	LY5	3	1.173	1,2
46.67	46 PD	LY2	1	3.489	1,2,3	47.11	94 PU	LA2	4	0.880	1
46.67	46 PD	LY3	1	3.489	1,2	47.15	47 AG	LY1	1	3.523	1,2,3
46.69	93 MP	LB1	5	0.698	1,2,3	47.17	86 RN	LB2	4	0.881	1

EDDT CRYSTAL, D# 4.404 ANGSTROMS						47.18 TO 48.28					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
47.18	82 PB	LA1	3	1.175	1,2,3	47.82	65 TB	LB4	2	1.785	1,2,3
47.22	33 AS	KA1	3	1.176	1,2,3	47.91	85 AT	LB1	4	0.894	1
47.27	75 RE	LB5	3	1.177	1,2	47.91	63 EU	LB7	2	1.788	1,2
47.31	77 IR	LB6	3	1.178	1,2,3	47.93	27 CO	KA1	2	1.789	1,2,3
47.35	72 HF	LY1	3	1.179	1,2,3	47.96	87 FR	LY1	5	0.716	1,2,3
47.35	71 LU	LY3	3	1.179	1,2,3	47.96	81 TL	LY5	4	0.895	1,2
47.39	33 AS	KA2	3	1.180	1,2,3	48.02	63 EU	LB9	2	1.792	1,2
47.39	77 IR	LB4	3	1.180	1,2,3	48.03	88 RA	LY5	5	0.717	1,2
47.39	76 OS	LB3	3	1.180	1,2,3	48.05	27 CO	KA2	2	1.793	1,2,3
47.39	91 PA	LB10	5	0.708	1,2	48.08	78 PT	LY4	4	0.897	1,2
47.47	42 MO	KA1	5	0.709	1,2,3	48.08	31 GA	KB2	3	1.196	1,2,3
47.54	92 U	LB3	5	0.710	1,2,3	48.08	80 HG	LY1	4	0.897	1,2,3
47.57	65 TB	LB1	2	1.776	1,2,3	48.11	94 PU	LB2	5	0.718	1
47.61	49 IN	LB1	1	3.555	1,2,3	48.12	76 OS	LB1	3	1.197	1,2,3
47.61	71 LU	LY2	3	1.185	1,2,3	48.12	31 GA	KB5	3	1.197	1,2
47.61	70 YB	LY4	3	1.185	1,2	48.13	83 BI	LB9	4	0.898	1,2
47.62	93 NP	LA1	4	0.889	1,2,3	48.13	79 AU	LY3	4	0.898	1,2,3
47.64	53 I	LL	1	3.557	1,2,3	48.13	60 ND	LY3	2	1.796	1,2,3
47.65	75 RE	LB7	3	1.186	1,2	48.13	68 ER	LA2	2	1.796	1,2,3
47.65	62 SM	LY5	2	1.779	1	48.16	71 LU	LY6	3	1.198	1,2
47.65	62 SM	LB5	2	1.779	2	48.19	84 PO	LB5	4	0.899	1,2
47.65	82 PB	LA2	3	1.186	1,2,3	48.25	63 EU	LB10	2	1.800	1,2
47.71	72 HF	LL	2	1.781	1,2,3	48.25	92 U	LB1	5	0.720	1,2,3
47.75	42 MO	KA2	5	0.713	1,2,3	48.25	50 SN	LA1	1	3.600	1,2,3
47.79	68 ER	LA1	2	1.784	1,2,3	48.28	60 ND	LY2	2	1.801	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS							48.31 TO 49.46						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
48.31	93 NP	LA2	4	0.901	1		48.76	84 PO	LB3	4	0.909	1,2,3	
48.32	47 AG	LB9	1	3.605	1,2		48.76	74 W	LB10	3	1.212	1,2	
48.36	51 SB	LN	1	3.608	1,2,3		48.79	59 PR	LY4	2	1.819	1,2	
48.38	50 SN	LA2	1	3.609	1,2,3		48.80	76 OS	LB6	3	1.213	1,2,3	
48.38	79 AU	LN	3	1.203	1,2,3		48.88	92 U	LA1	4	0.911	1,2,3	
48.41	47 AG	LB10	1	3.611	1,2		48.89	48 CD	LB3	1	3.645	1,2,3	
48.42	74 W	LB9	3	1.204	1,2		48.89	74 W	LB5	3	1.215	1,2	
48.42	79 AU	LY6	4	0.903	1,2		48.89	39 Y	KB2	5	0.729	1,2,3	
48.45	64 CD	LB6	2	1.807	1,2,3		48.89	72 HF	LY5	3	1.215	1,2	
48.45	48 CD	LB6	1	3.614	1,2,3		48.96	90 TH	LB10	5	0.730	1,2	
48.46	90 TH	LB9	5	0.723	1,2		48.99	67 HO	LN	2	1.826	1,2,3	
48.48	79 AU	LY2	4	0.904	1,2,3		49.02	76 OS	LB4	3	1.218	1,2,3	
48.48	47 AG	LY5	1	3.616	1,2		49.06	81 TL	LA2	3	1.219	1,2,3	
48.53	83 BI	LB10	4	0.905	1,2		49.11	75 RE	LB3	3	1.220	1,2,3	
48.53	85 MT	LB2	4	0.905	1		49.11	91 PA	LB3	5	0.732	1,2,3	
48.55	81 TL	LA1	3	1.207	1,2,3		49.19	70 YB	LY3	3	1.222	1,2,3	
48.55	75 BE	LB2	3	1.207	1,2,3		49.19	71 LU	LY1	3	1.222	1,2,3	
48.59	31 SA	KB3	3	1.208	1,2		49.25	39 Y	KB5	5	0.734	1	
48.59	31 SA	KB1	3	1.208	1,2,3		49.28	71 LU	LL	2	1.836	1,2,3	
48.59	63 EU	LB2	2	1.812	1,2,3		49.28	74 W	LB7	3	1.224	1,2	
48.65	88 RA	LN	4	0.907	1,2,3		49.39	92 U	LB7	5	0.736	1,2	
48.68	64 SD	LB3	2	1.815	1,2,3		49.39	93 NP	LB2	5	0.736	1,2,3	
48.68	92 J	LB5	5	0.726	1,2		49.42	48 CD	LB4	1	3.682	1,2,3	
48.70	61 PM	LY1	2	1.816	1		49.45	35 BR	KB2	4	0.921	1,2,3	
48.75	39 Y	KB4	5	0.727	2		49.46	45 RH	LY2	1	3.685	1,2,3	

EDDT CRYSTAL, D# 4.404 ANGSTROMS							49.46 TO 50.37						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
49.46	45 RH	LY3	1	3.685	1,2		49.92	52 TE	LL	1	3.717	1,2,3	
49.49	70 YB	LY2	3	1.229	1,2,3		49.92	75 RE	LB1	3	1.239	1,2,3	
49.49	69 TM	LY4	3	1.229	1		49.96	37 RB	KA2	4	0.930	1,2,3	
49.51	92 U	LA2	4	0.922	1,2,3		49.99	62 SM	LB9	2	1.861	1,2	
49.51	84 PO	LB1	4	0.922	1,2,3		50.01	80 HG	LA1	3	1.241	1,2,3	
49.53	67 HO	LA1	2	1.845	1,2,3		50.02	46 PD	LY1	1	3.724	1,2,3	
49.56	64 GD	LB1	2	1.846	1,2,3		50.04	91 PA	LB5	5	0.745	1,2	
49.61	86 RN	LY1	5	0.739	1		50.09	70 YB	LY6	3	1.243	1,2	
49.62	80 HG	LY5	4	0.924	1,2		50.09	78 PT	LN	3	1.243	1,2,3	
49.68	35 BR	KB5	4	0.925	1,2		50.11	41 NB	KA1	5	0.746	1,2,3	
49.72	47 AG	LB2	1	3.703	1,2,3		50.14	91 PA	LA1	4	0.933	1,2,3	
49.74	83 BI	LB5	4	0.926	1,2		50.14	35 BR	KB3	4	0.933	1,2	
49.74	37 RB	KA1	4	0.926	1,2,3		50.14	35 BR	KB1	4	0.933	1,2,3	
49.75	39 Y	KB3	5	0.741	1,2		50.18	74 W	LB2	3	1.245	1,2,3	
49.75	39 Y	KB1	5	0.741	1,2,3		50.19	78 PT	LY2	4	0.934	1,2,3	
49.76	64 GD	LB4	2	1.853	1,2,3		50.19	82 PB	LB10	4	0.934	1,2	
49.79	79 AU	LY1	4	0.927	1,2,3		50.19	78 PT	LY6	4	0.934	1,2	
49.79	77 IR	LY4	4	0.927	1,2		50.22	73 TA	LB9	3	1.246	1,2	
49.79	82 PB	LB9	4	0.927	1,2		50.22	48 CO	LB1	1	3.738	1,2,3	
49.82	91 PA	LB1	5	0.742	1,2,3		50.22	62 SM	LB10	2	1.869	1,2	
49.82	60 ND	LY6	2	1.855	2		50.25	83 BI	LB7	4	0.935	1,2	
49.85	78 PT	LY3	4	0.928	1,2,3		50.25	92 U	LB4	5	0.748	1,2,3	
49.85	62 SM	LB7	2	1.856	1,2		50.27	19 K	KA1	1	3.741	1,2,3	
49.85	67 HO	LA2	2	1.856	1,2,3		50.32	19 K	KA2	1	3.745	1,2,3	
49.91	84 PO	LB2	4	0.929	1,2,3		50.37	63 EU	LB6	2	1.874	1,2,3	

EDCT CRYSTAL, D# 4.404 ANGSTROMS						50.37 TO 51.52					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
50.37	59 PR	LY3	2	1.874	1,2,3	51.00	73 TA	LB7	3	1.264	1,2
50.40	41 NB	KA2	5	0.750	1,2,3	51.00	46 PD	LB9	1	3.792	1,2
50.44	75 RE	LB6	3	1.251	1,2,3	51.03	25 MN	KB5	2	1.897	1,2
50.48	83 BI	LB3	4	0.939	1,2,3	51.03	66 DY	LN	2	1.897	1,2,3
50.48	60 ND	LY1	2	1.878	1,2,3	51.09	58 CE	LY4	2	1.899	1,2
50.51	59 PR	LY2	2	1.879	1,2,3	51.10	46 PD	LB10	1	3.799	1,2
50.53	80 HG	LA2	3	1.253	1,2,3	51.17	69 TH	LY3	3	1.268	1,2,3
50.57	73 TA	LB10	3	1.254	1,2	51.17	70 YB	LY1	3	1.268	1,2,3
50.57	32 GE	KA1	3	1.254	1,2,3	51.19	83 BI	LY4	5	0.761	1,2
50.60	62 SM	LB2	2	1.882	1,2,3	51.23	47 AG	LB6	1	3.808	1,2,3
50.61	73 TA	LB5	3	1.255	1,2	51.23	83 BI	LB1	4	0.952	1,2,3
50.71	49 IN	LA1	1	3.772	1,3	51.29	82 PB	LB5	4	0.953	1,2
50.74	63 EU	LB3	2	1.887	1,2,3	51.33	85 AT	LY1	5	0.763	1
50.74	32 GE	KA2	3	1.258	1,2,3	51.38	66 DY	LA1	2	1.909	1,2,3
50.76	92 U	LB2	5	0.755	1,2,3	51.40	25 MN	KB1	2	1.910	1,2,3
50.76	91 PA	LB7	5	0.755	1,2	51.40	83 BI	LB2	4	0.955	1,2,3
50.76	90 TH	LB3	5	0.755	1,2,3	51.40	84 PO	LY6	5	0.764	1,2
50.78	75 RE	LB4	3	1.259	1,2,3	51.40	84 PO	LY3	5	0.764	1,2,3
50.83	71 LU	LY5	3	1.260	1,2	51.43	46 PD	LY5	1	3.822	1,2
50.83	91 PA	LA2	4	0.945	1,2,3	51.43	69 TH	LY2	3	1.274	1,2,3
50.84	49 IN	LA2	1	3.781	1,2,3	51.46	79 AU	LY5	4	0.956	1,2
50.94	70 YB	LL	2	1.894	1,2,3	51.46	90 TH	LA1	4	0.956	1,2,3
50.94	84 PO	LB4	4	0.947	1,2,3	51.48	90 TH	LB5	5	0.765	1,2
50.96	50 SN	LN	1	3.789	1,2,3	51.48	90 TH	LB1	5	0.765	1,2,3
50.96	74 W	LB3	3	1.263	1,2,3	51.52	81 TL	LB9	4	0.957	1,2

EDDT CRYSTAL, D# 4.404 ANGSTROMS						51.52 TO 52.71					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
51.52	79 AU	LA1	3	1.276	1,3	52.13	60 ND	LY5	2	1.935	1,2
51.52	68 ER	LY4	3	1.276	1,2	52.13	72 HF	LB9	3	1.290	1,2
51.58	78 PT	LY1	4	0.958	1,2,3	52.13	47 AG	LB4	1	3.870	1,2,3
51.59	47 AG	LB3	1	3.833	1,2,3	52.13	74 W	LB6	3	1.290	1,2,3
51.64	76 OS	LY4	4	0.959	1,2	52.13	91 PA	LB2	5	0.774	1,2,3
51.64	77 IR	LY3	4	0.959	1,2,3	52.16	90 TH	LA2	4	0.968	1,2,3
51.69	66 DY	LA2	2	1.920	1,2,3	52.16	26 FE	KA1	2	1.936	1,2,3
51.69	63 EU	LB1	2	1.920	1,2,3	52.20	88 RA	LB10	5	0.775	1,2
51.77	88 RA	LB9	5	0.769	1,2	52.20	38 SR	KB5	5	0.775	1
51.78	74 W	LB1	3	1.282	1,2,3	52.21	82 PB	LB3	4	0.969	1,2,3
51.81	82 PB	LB7	4	0.962	1,2	52.27	26 FE	KA2	2	1.940	1,2,3
51.84	91 PA	LB4	5	0.770	1,2,3	52.33	18 A	KB1	1	3.884	1
51.87	77 IR	LN	3	1.284	1,2,3	52.34	30 ZN	KB1	3	1.295	1,2,3
51.87	30 ZN	KB2	3	1.284	1,2,3	52.39	51 SB	LL	1	3.888	1,2,3
51.87	73 TA	LB2	3	1.284	1,2,3	52.45	62 SM	LB6	2	1.946	1,2,3
51.87	63 EU	LB4	2	1.926	1,2,3	52.48	72 HF	LB10	3	1.298	1,2
51.91	30 ZN	KB5	3	1.285	1,2	52.48	72 HF	LB5	3	1.298	1,2
51.91	38 SR	KB2	5	0.771	1,2,3	52.52	44 RU	LY2	1	3.897	1,2,3
51.92	81 TL	LB10	4	0.964	1,2	52.52	44 RU	LY3	1	3.897	1,2
51.98	77 IR	LY2	4	0.965	1,2,3	52.65	74 W	LB4	3	1.302	1,2,3
52.04	79 AU	LA2	3	1.288	1,2,3	52.68	83 BI	LB4	4	0.977	1,2,3
52.10	77 IR	LY6	4	0.967	1,2	52.69	46 PD	LB2	1	3.909	1,2,3
52.10	84 PO	LB6	4	0.967	1,2,3	52.71	69 TM	LL	2	1.955	1,2,3
52.13	69 TM	LY6	3	1.290	1	52.71	92 U	MA1	1	3.910	1,2
52.13	90 TH	LB7	5	0.774	1,2	52.71	58 CE	LY3	2	1.955	1,2,3

EDOT CRYSTAL, D# 4.404 ANGSTROMS						52.77 TO 53.58					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
52.77	61 PM	LB2	2	1.957	1	53.20	80 HG	LB9	4	0.986	1,2
52.78	38 SR	KB3	5	0.783	1,2	53.22	89 AC	LB1	5	0.789	1
52.78	38 SR	KB1	5	0.783	1,2,3	53.22	83 BI	LY3	5	0.789	1,2,3
52.82	72 HF	LB7	3	1.306	1,2	53.22	69 TM	LY1	3	1.315	1,2,3
52.82	70 WB	LY5	3	1.306	1,2	53.22	68 ER	LY3	3	1.315	1,2,3
52.85	36 KR	KA1	4	0.980	1,2,3	53.23	65 TB	LN	2	1.973	1
52.85	34 SE	KB2	4	0.980	1,2,3	53.26	83 BI	LL	3	1.316	1,2,3
52.85	89 AC	LA1	4	0.980	1	53.29	83 BI	LY6	5	0.790	1,2
52.85	58 CE	LY2	2	1.960	1,2,3	53.29	65 TB	LA1	2	1.975	1,2,3
52.87	73 TA	LB3	3	1.307	1,2,3	53.29	40 ZR	KA2	5	0.790	1,2,3
52.88	59 PR	LY1	2	1.961	1,2,3	53.32	78 PT	LY5	4	0.988	1,2
52.91	81 FL	LB5	4	0.981	1,2	53.38	48 CD	LA1	1	3.956	1,2,3
52.91	92 J	MA2	1	3.924	1,2	53.43	98 CF	LA1	5	0.792	1
52.91	62 SM	LB3	2	1.962	1,2,3	53.43	81 TL	LB7	4	0.990	1,2
52.97	82 PB	LB1	4	0.982	1,2,3	53.48	68 ER	LY2	3	1.321	1,2,3
53.00	40 ZR	KA1	5	0.786	1,2,3	53.49	77 IR	LY1	4	0.991	1,2,3
53.00	82 PB	LY4	5	0.786	1	53.51	90 TH	LB4	5	0.793	1,2,3
53.03	82 PB	LB2	4	0.983	1,2,3	53.51	48 CD	LA2	1	3.965	1,2,3
53.06	47 AG	LB1	1	3.934	1,2,3	53.52	67 HO	LY4	3	1.322	1,2
53.07	84 PO	LY1	5	0.787	1,2,3	53.52	57 LA	LY4	2	1.983	1,2
53.09	34 SE	KB5	4	0.984	1,2	53.55	76 OS	LY3	4	0.992	1,2,3
53.09	36 KR	KA2	4	0.984	1,2,3	53.55	34 SE	KB1	4	0.992	1,2,3
53.13	78 PT	LA1	3	1.313	1,2,3	53.55	75 RE	LY4	4	0.992	1,2
53.14	92 U	LB6	5	0.788	1,2,3	53.55	89 AC	LA2	4	0.992	1
53.19	45 RH	LY1	1	3.943	1,2,3	53.58	90 TH	LB2	5	0.794	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS							53.61 TO 54.97					
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF
53.61	34 SE	KB3	4	0.993	1,2		54.40	71 LU	LB5	3	1.342	1,2
53.61	65 TB	LA2	2	1.986	1,2,3		54.43	82 PB	LB4	4	1.007	1,2,3
53.61	83 BI	LB6	4	0.993	1,2,3		54.44	71 LU	LB10	3	1.343	1,2
53.61	78 PT	LA2	3	1.324	1,2,3		54.46	88 RA	LB5	5	0.806	1,2
53.70	72 HF	LB2	3	1.326	1,2,3		54.49	31 GA	KA2	3	1.344	1,2,3
53.73	83 BI	LY2	5	0.796	1,2,3		54.49	60 ND	LB9	2	2.016	1,2
53.74	73 TA	LB1	3	1.327	1,2,3		54.51	46 PD	LB3	1	4.034	1,2,3
53.77	49 IN	LN	1	3.983	1,2,3		54.53	91 PA	MA2	1	4.035	1,2
53.78	80 HG	LB10	4	0.996	1,2		54.57	73 TA	LB4	3	1.346	1,2,3
53.78	76 OS	LN	3	1.328	1,2,3		54.57	68 ER	LL	2	2.019	1,2,3
53.90	76 OS	LY2	4	0.998	1,2,3		54.60	81 TL	LB2	4	1.010	1,2,3
53.92	73 TA	LB6	3	1.331	1,2,3		54.60	59 PR	LY5	2	2.020	1,2
53.96	62 SM	LB1	2	1.998	1,2,3		54.60	80 HG	LB5	4	1.010	1,2
54.02	62 SM	LB4	2	2.060	1,2,3		54.60	91 PA	LB6	5	0.808	1,2,3
54.08	76 OS	LY6	4	1.001	1,2		54.68	45 RH	LY5	1	4.045	1,2
54.08	81 TL	LB3	4	1.001	1,2,3		54.69	60 ND	LB10	2	2.023	1,2
54.13	71 LU	LB9	3	1.336	1,2		54.71	71 LU	LB7	3	1.349	1,2
54.24	88 RA	LB3	5	0.803	1,2,3		54.75	82 PB	LL	3	1.350	1,2,3
54.25	46 PD	LB6	1	4.016	1,2,3		54.75	97 BK	LA1	5	0.810	1
54.28	60 ND	LB7	2	2.069	1,2		54.79	77 IR	LA1	3	1.351	1,2,3
54.31	88 RA	LA1	4	1.005	1,2,3		54.88	72 HF	LB3	3	1.353	1,2,3
54.31	31 GA	KA1	3	1.340	1,2,3		54.90	81 TL	LY4	5	0.812	1,2
54.31	98 CF	LA2	5	0.804	1		54.90	81 TL	LB1	4	1.015	1,2,3
54.34	91 PA	MA1	1	4.022	1,2		54.95	88 RA	LA2	4	1.016	1,2,3
54.38	92 U	LN	5	0.805	1,2,3		54.97	69 TH	LY5	3	1.355	1,2

EDDT CRYSTAL, D# 4.404 ANGSTROMS						54.97 TO 56.16					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
54.97	83 BI	LY1	5	0.813	1,2,3	55.63	97 BK	LA2	5	0.822	1
55.04	89 AC	LB2	5	0.814	1	55.63	67 HO	LY2	3	1.370	1,2,3
55.04	88 FA	LB1	5	0.814	1,2,3	55.63	71 LU	LB2	3	1.370	1,2,3
55.06	46 PD	LB4	1	4.071	1,2,3	55.63	37 RB	KB5	5	0.822	1
55.06	50 SN	LL	1	4.071	1,2,3	55.66	79 AU	LB10	4	1.028	1,2
55.07	60 MD	LB2	2	2.036	1,2,3	55.66	74 W	LY4	4	1.028	1,2
55.12	82 PB	LY3	5	0.815	1,2,3	55.69	64 GD	LA2	2	2.057	1,2,3
55.13	80 HG	LB7	4	1.019	1,2	55.76	75 RE	LN	3	1.373	1,2,3
55.19	88 RA	LB7	5	0.816	1,2	55.78	87 FR	LA1	4	1.030	1,2,3
55.19	37 RB	KB2	5	0.816	1,2,3	55.81	66 DY	LY4	3	1.374	1,2
55.22	57 LA	LY3	2	2.041	1,2,3	55.81	72 HF	LB1	3	1.374	1,2,3
55.25	79 AU	LB9	4	1.021	1,2	55.81	72 HF	LB6	3	1.374	1,2,3
55.25	82 PB	LB6	4	1.021	1,2,3	55.89	75 RE	LY2	4	1.032	1,2,3
55.26	82 PB	LY6	5	0.817	1,2	55.94	45 RH	LB2	1	4.131	1,2,3
55.28	77 IR	LA2	3	1.362	1,2,3	56.01	80 HG	LB3	4	1.034	1,2,3
55.31	77 IR	LY5	4	1.022	1,2	56.04	90 TH	MA1	1	4.138	1,2
55.37	68 ER	LY1	3	1.364	1,2,3	56.07	90 TH	LB6	5	0.828	1,2,3
55.37	67 HO	LY3	3	1.364	1,2,3	56.10	24 CR	KB5	2	2.071	1,2
55.37	57 LA	LY2	2	2.046	1,2,3	56.12	29 CU	KB2	3	1.381	2,3
55.37	64 GD	LA1	2	2.046	1,2,3	56.15	37 RB	KB3	5	0.829	1,2
55.42	58 CE	LY1	2	2.048	1,2,3	56.15	96 CM	LA1	5	0.829	1
55.45	64 GD	LN	2	2.049	1,2,3	56.15	39 Y	KA1	5	0.829	1,2,3
55.48	76 OS	LY1	4	1.025	1,2,3	56.15	37 RB	KB1	5	0.829	1,2,3
55.54	75 RE	LY3	4	1.026	1,2,3	56.15	91 PA	LN	5	0.829	1,2,3
55.56	82 PB	LY2	5	0.821	1,2,3	56.16	46 PD	LB1	1	4.146	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS						56.16 TO 57.14					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
56.16	29 CU	K85	3	1.382	2	56.65	29 CU	K83	3	1.393	1,2
56.19	75 RE	LY6	4	1.037	1,2	56.66	33 AS	K82	4	1.045	1,2,3
56.22	56 BA	LY4	2	2.075	1,2	56.69	44 RU	LY1	1	4.182	1,2,3
56.23	90 TH	MA2	1	4.151	1,2	56.69	59 PR	LB7	2	2.091	1,2
56.25	70 YB	LB9	3	1.384	1,2	56.74	70 YB	LB7	3	1.395	1,2
56.28	47 AG	LA1	1	4.154	1,2,3	56.84	18 A	KA1	1	4.192	1,2,3
56.29	81 TL	LL	3	1.385	1,2,3	56.85	48 CD	LN	1	4.193	1,3
56.31	81 TL	LB4	4	1.039	1,2,3	56.88	18 A	KA2	1	4.195	1,2,3
56.37	79 AU	LB5	4	1.040	1,2	56.88	83 BI	LY5	5	0.839	1,2
56.37	35 BR	KA1	4	1.040	1,2,3	56.88	80 HG	LY4	5	0.839	1,2
56.37	80 HG	LB2	4	1.040	1,2,3	56.90	33 AS	K85	4	1.049	1,2
56.38	70 YB	LB5	3	1.387	1,2	56.90	80 HG	LB1	4	1.049	1,2,3
56.40	61 PM	LB1	2	2.081	1,2,3	56.96	59 PR	LB9	2	2.100	1,2
56.41	47 AG	LA2	1	4.163	1,2,3	56.96	82 PB	LY1	5	0.840	1,2,3
56.44	39 Y	KA2	5	0.833	1,2,3	56.96	79 AU	LB7	4	1.050	1,2
56.48	87 FR	LA2	4	1.042	1	56.96	81 TL	LB6	4	1.050	1,2,3
56.51	24 CR	K83	2	2.085	1,2	56.96	87 FR	LB1	5	0.840	1,2,3
56.51	24 CR	K81	2	2.085	1,2,3	57.00	71 LU	LB3	3	1.401	1,2,3
56.54	67 HO	LL	2	2.086	1,2,3	57.02	25 MN	KA1	2	2.102	1,2,3
56.56	76 OS	LA1	3	1.391	1,2,3	57.03	88 RA	LB4	5	0.841	1,2,3
56.56	70 YB	LB10	3	1.391	1,2	57.03	96 CM	LA2	5	0.841	1
56.59	88 RA	LB2	5	0.835	1,2,3	57.03	81 TL	LY3	5	0.841	1,2,3
56.60	35 BR	KA2	4	1.044	1,2,3	57.05	76 OS	LA2	3	1.402	1,2,3
56.60	72 HF	LB4	3	1.392	1,2,3	57.08	60 ND	LB6	2	2.104	1,2,3
56.60	29 CU	K81	3	1.392	1,2,3	57.14	25 MN	KA2	2	2.106	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS						57.17 TO 58.44					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
57.17	59 PR	LB10	2	2.107	1,2	57.88	63 EU	LN	2	2.131	1
57.19	78 PT	LB9	4	1.054	1,2	57.89	74 W	LN	3	1.421	1,2,3
57.22	68 ER	LY5	3	1.406	1,2	57.91	63 EU	LA2	2	2.132	1,2,3
57.25	81 TL	LY6	5	0.844	1,2	57.94	80 HG	LL	3	1.422	1,2,3
57.25	58 CE	LY5	2	2.110	1,2	57.97	56 BA	LY3	2	2.134	1,2,3
57.37	76 OS	LY5	4	1.057	1,2	57.97	92 U	LL	4	1.067	2,3
57.37	33 AS	KB1	4	1.057	1,2,3	57.98	49 IN	LL	1	4.269	1,2,3
57.37	86 RN	LA1	4	1.057	1	57.98	66 DY	LY2	3	1.423	1,2,3
57.43	33 AS	KB3	4	1.058	1,2	58.00	90 TH	LN	5	0.854	1,2,3
57.49	83 BI	LN	4	1.059	1,2,3	58.03	71 LU	LB1	3	1.424	1,2,3
57.52	59 PR	LB2	2	2.119	1,2,3	58.03	79 AU	LB3	4	1.068	1,2,3
57.55	81 TL	LY2	5	0.848	1,2,3	58.03	74 W	LY2	4	1.068	1,2,3
57.55	95 AM	LA1	5	0.848	1,3	58.09	86 RN	LA2	4	1.069	1
57.58	63 EU	LA1	2	2.121	1,2,3	58.09	56 BA	LY2	2	2.138	1,2,3
57.58	45 RH	LB6	1	4.242	1,2,3	58.15	79 AU	LB2	4	1.070	1,2,3
57.61	75 RE	LY1	4	1.061	1,2,3	58.16	65 TB	LY4	3	1.427	1,2
57.63	70 YB	LB2	3	1.415	1,2,3	58.20	57 LA	LY1	2	2.142	1,2,3
57.67	78 PT	LB10	4	1.062	1,2	58.25	44 RU	LY5	1	4.287	1,2
57.67	74 W	LY3	4	1.062	1,2,3	58.26	80 HG	LB4	4	1.072	1,2,3
57.71	66 DY	LY3	3	1.417	1,2,3	58.26	78 PT	LB5	4	1.072	1,2
57.71	67 HO	LY1	3	1.417	1,2,3	58.28	45 RH	LB4	1	4.289	1,2,3
57.73	60 ND	LB3	2	2.126	1,2,3	58.29	87 FR	LB2	5	0.858	1,2,3
57.73	45 RH	LB3	1	4.252	1,2,3	58.38	74 W	LY6	4	1.074	1,2
57.80	71 LU	LB6	3	1.419	1,2,3	58.43	75 RE	LA1	3	1.433	1,2,3
57.85	73 TA	LY4	4	1.065	1,2	58.44	95 AM	LA2	5	0.860	1,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS							58.52 TO 59.88						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
58.52	3D ZN	KA1	3	1.435	1,2,3		59.40	91 PA	LL	4	1.091	1,2,3	
58.68	66 DY	LL	2	2.158	1,2,3		59.41	80 HG	LY6	5	0.873	1,2	
58.70	3D ZN	KA2	3	1.439	1,2,3		59.46	46 PD	LA1	1	4.368	1,2,3	
58.74	80 HG	LB6	4	1.080	1,2,3		59.46	82 PB	LN	4	1.092	1,2,3	
58.74	71 LU	LB4	3	1.440	1,2,3		59.52	44 RU	LB2	1	4.372	1,2,3	
58.79	69 TM	LB10	3	1.441	1		59.55	45 RH	LB1	1	4.374	1,2,3	
58.86	78 PT	LB7	4	1.082	1,2		59.56	38 SR	KA1	5	0.875	1,2,3	
58.89	82 PB	LY5	5	0.866	1,2		59.56	80 HG	LY2	5	0.875	1,2,3	
58.89	36 KR	KB4	5	0.866	2		59.58	75 RE	LY5	4	1.094	1,2	
58.89	36 KR	KB2	5	0.866	1,2,3		59.58	58 CE	LB9	2	2.188	1,2	
58.89	86 RN	LB1	5	0.866	1		59.58	46 PD	LA2	1	4.376	1,2,3	
58.92	75 RE	LA2	3	1.444	1,2,3		59.64	42 MC	LY3	1	4.380	1,2	
58.95	60 ND	LB4	2	2.167	1,2,3		59.64	42 MO	LY2	1	4.380	1,2,3	
58.95	60 ND	LB1	2	2.167	1,2,3		59.64	59 PR	LB6	2	2.190	1,2,3	
58.98	79 AU	LB1	4	1.084	1,2,3		59.64	79 AU	LL	3	1.460	1,2,3	
59.04	94 PU	LA1	5	0.868	1		59.73	67 HO	LY5	3	1.462	1,2	
59.04	81 TL	LY1	5	0.868	1,2,3		59.76	77 IR	LB10	4	1.097	1,2	
59.04	85 AT	LA1	4	1.085	1		59.76	85 AT	LA2	4	1.097	1	
59.12	80 HG	LY3	5	0.869	1,2,3		59.77	69 TM	LB2	3	1.463	1,2,3	
59.16	55 CS	LY4	2	2.174	1,2		59.79	58 CE	LB10	2	2.195	1,2	
59.26	88 RA	LB6	5	0.871	1,2,3		59.79	36 KR	KB1	5	0.878	1,2,3	
59.26	36 KR	KB5	5	0.871	1,2		59.86	38 SR	KA2	5	0.879	1,2,3	
59.28	70 YB	LB3	3	1.452	1,2,3		59.86	36 KR	KB3	5	0.879	1,2	
59.34	58 CE	LB7	2	2.180	1,2		59.88	74 W	LY1	4	1.099	1,2,3	
59.34	77 IR	LB9	4	1.090	1,2		59.88	73 TA	LY3	4	1.099	1,2,3	

EDDT CRYSTAL, D# 4.404 ANGSTROMS						59.91 TO 61.17					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
59.91	70 YB	LB6	3	1.466	1,2,3	60.48	62 SM	LN	2	2.218	1,2,3
59.91	62 SM	LA1	2	2.199	1,2,3	60.54	43 TC	LY1	1	4.440	1
59.94	94 PU	LA2	5	0.880	1	60.60	79 AU	LB6	4	1.111	1,2,3
59.98	17 CL	KB1	1	4.403	1,2,3	60.62	93 NP	LA1	5	0.889	1,2,3
60.01	86 RN	LB2	5	0.881	1	60.77	64 GD	LY4	3	1.435	1,2
60.06	78 PT	LB2	4	1.102	1,2,3	60.77	68 ER	LB9	3	1.435	1,2
60.09	57 LA	LY5	2	2.205	1,2	60.78	84 PO	LA1	4	1.114	1,2,3
60.12	72 HF	LY4	4	1.103	1,2	60.78	73 TA	LY6	4	1.114	1,2
60.13	73 TA	LN	3	1.471	1,2,3	60.84	77 IR	LB7	4	1.115	1,2
60.13	65 TB	LY3	3	1.471	1,2,3	60.84	90 TH	LL	4	1.115	1,2,3
60.18	78 PT	LB3	4	1.104	1,2,3	60.86	74 W	LA2	3	1.487	1,2,3
60.21	47 AG	LN	1	4.418	1,2,3	60.93	55 CS	LY3	2	2.233	1,2,3
60.21	58 CE	LB2	2	2.209	1,2,3	60.95	28 NI	KB2	3	1.489	1,2,3
60.22	66 DY	LY1	3	1.473	1,2,3	60.95	28 NI	KB5	3	1.489	1,2
60.24	62 SM	LA2	2	2.210	1,2,3	60.96	32 GE	KB2	4	1.117	1,2,3
60.24	34 SE	KA1	4	1.105	1,2,3	60.96	65 TB	LL	2	2.234	1,2,3
60.24	73 TA	LY2	4	1.105	1,2,3	60.99	85 AT	LB1	5	0.894	1
60.30	77 IR	LB5	4	1.106	1,2	61.04	70 YB	LB4	3	1.491	1,2,3
60.36	79 AU	LB4	4	1.107	1,2,3	61.05	55 CS	LY2	2	2.237	1,2,3
60.36	70 YB	LB1	3	1.476	1,2,3	61.07	81 TL	LY5	5	0.895	1,2
60.36	74 W	LA1	3	1.476	1,2,3	61.08	32 GE	KB5	4	1.119	1,2
60.41	65 TB	LY2	3	1.477	1,2,3	61.14	48 CD	LL	1	4.480	1,2,3
60.45	59 PR	LB3	2	2.217	1,2,3	61.14	78 PT	LB1	4	1.120	1,2,3
60.45	71 LU	LN	3	1.478	1,2	61.17	56 BA	LY1	2	2.241	1,2,3
60.48	34 SE	KA2	4	1.109	1,2,3	61.17	68 ER	LB7	3	1.494	1,2

EDDT CRYSTAL, D# 4.404 ANGSTROMS						61.17 TO 62.60					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
61.17	68 ER	LB10	3	1.494	1,2	61.93	76 OS	LB10	4	1.133	1,2
61.22	78 PT	LY4	5	0.897	1,2	61.98	88 RA	LN	5	0.907	1,2,3
61.22	80 HG	LY1	5	0.897	1,2,3	62.02	23 V	KB5	2	2.269	1,2
61.25	44 RU	LB6	1	4.487	1,2,3	62.05	77 IR	LB2	4	1.135	1,2,3
61.25	44 RU	LB3	1	4.487	1,2,3	62.08	68 ER	LB2	3	1.514	1,2,3
61.30	83 BI	LB9	5	0.898	1,2	62.13	69 TM	LB6	3	1.515	1,2,3
61.30	79 AU	LY3	5	0.898	1,2,3	62.13	84 PO	LB3	5	0.909	1,2,3
61.37	84 PO	LB5	5	0.899	1,2	62.21	57 LA	LB7	2	2.275	1,2
61.40	78 PT	LL	3	1.499	1,2,3	62.24	72 HF	LY3	4	1.138	1,2,3
61.45	28 NI	KB1	3	1.500	1,2,3	62.24	73 TA	LY1	4	1.138	1,2,3
61.51	76 OS	LB9	4	1.126	1,2	62.27	66 DY	LY5	3	1.518	1,2
61.51	84 PO	LA2	4	1.126	1,2,3	62.28	92 U	LA1	5	0.911	1,2,3
61.52	93 NP	LA2	5	0.901	1	62.36	76 OS	LB5	4	1.140	1,2
61.60	59 PR	LB4	2	2.255	1,2,3	62.39	58 CE	LB6	2	2.281	1,2,3
61.63	81 TL	LN	4	1.128	1,2,3	62.42	57 LA	LB9	2	2.282	1,2
61.67	79 AU	LY6	5	0.903	1,2	62.42	77 IR	LB3	4	1.141	1,2,3
61.67	69 TM	LB3	3	1.505	1,2,3	62.45	73 TA	LA1	3	1.522	1,2,3
61.69	32 GE	KB3	4	1.129	1,2	62.45	61 PM	LA1	2	2.283	1,2,3
61.69	59 PR	LB1	2	2.258	1,2,3	62.48	78 PT	LB4	4	1.142	1,2,3
61.69	32 GE	KB1	4	1.129	1,2,3	62.48	23 V	KB1	2	2.284	1,2,3
61.75	79 AU	LY2	5	0.904	1,2,3	62.48	23 V	KB3	2	2.284	1,2
61.80	44 RU	LB4	1	4.523	1,2,3	62.49	72 HF	LN	3	1.523	1,2,3
61.83	83 BI	LB10	5	0.905	1,2	62.54	71 LU	LY4	4	1.143	1
61.83	85 AT	LB2	5	0.905	1	62.60	78 PT	LB6	4	1.144	1,2,3
61.87	74 W	LY5	4	1.132	1,2	62.60	72 HF	LY2	4	1.144	1,2,3

EDCT CRYSTAL, D# 4.404 ANGSTROMS							62.60 TO 64.01						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
62.60	83 BI	LA1	4	1.144	1,2,3		63.33	64 GD	LL	2	2.312	1,2,3	
62.66	57 LA	LB10	2	2.290	1,2		63.35	35 BR	KB5	5	0.925	1,2	
62.66	24 CR	KA1	2	2.290	1,2,3		63.42	37 RB	KA1	5	0.926	1,2,3	
62.72	61 PM	LA2	2	2.292	1		63.42	83 BI	LB5	5	0.926	1,2	
62.77	64 GD	LY3	3	1.529	1,2,3		63.46	63 EU	LY4	3	1.544	1,2	
62.78	24 CR	KA2	2	2.294	1,2,3		63.46	69 TM	LB4	3	1.544	1,2,3	
62.81	69 TM	LB1	3	1.530	1,2,3		63.46	29 CU	KA2	3	1.544	1,2,3	
62.81	65 TB	LY1	3	1.530	1,2,3		63.46	77 IR	LB1	4	1.158	1,2,3	
62.91	76 OS	LB7	4	1.149	1,2		63.50	82 PB	LB9	5	0.927	1,2	
62.92	45 RH	LA1	1	4.597	1,2,3		63.50	77 IR	LY4	5	0.927	1,2	
62.95	73 TA	LA2	3	1.533	1,2,3		63.50	79 AU	LY1	5	0.927	1,2,3	
63.00	64 GD	LY2	3	1.534	1,2,3		63.52	43 TC	LB2	1	4.636	1	
63.04	35 BR	KB2	5	0.921	1,2,3		63.58	78 PT	LY3	5	0.928	1,2,3	
63.04	45 RH	LA2	1	4.605	1,2,3		63.65	84 PO	LB2	5	0.929	1,2,3	
63.06	57 LA	LB2	2	2.303	1,2,3		63.68	67 HO	LB10	3	1.549	1	
63.12	92 U	LA2	5	0.922	1,2,3		63.73	37 RB	KA2	5	0.930	1,2,3	
63.12	84 PO	LB1	5	0.922	1,2,3		63.79	41 NB	LY3	1	4.654	1,2	
63.21	56 BA	LY5	2	2.308	1,2		63.79	41 NB	LY2	1	4.654	1,2,3	
63.27	83 BI	LA2	4	1.155	1,2,3		63.82	80 HG	LN	4	1.164	1,2,3	
63.27	44 RU	LB1	1	4.620	1,2,3		63.88	46 PD	LN	1	4.660	1,2,3	
63.27	80 HG	LY5	5	0.924	1,2		63.88	75 RE	LB9	4	1.165	1,2	
63.27	72 HF	LY6	4	1.155	1,2		63.96	35 BR	KB1	5	0.933	1,2,3	
63.30	58 CE	LB3	2	2.311	1,2,3		63.96	91 PA	LA1	5	0.933	1,2,3	
63.32	77 IR	LL	3	1.541	1,2,3		63.96	35 BR	KB3	5	0.933	1,2	
63.32	29 CU	KA1	3	1.541	1,2,3		64.01	88 RA	LL	4	1.167	1,2,3	

EDDT CRYSTAL, D# 4.404 ANGSTROMS							64.04 TO 65.73						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
64.04	82 PB	LB10	5	0.934	1,2		64.88	91 PA	LA2	5	0.945	1,2,3	
64.04	78 PT	LY2	5	0.934	1,2,3		64.90	42 MO	LY1	1	4.726	1,2,3	
64.04	78 PT	LY6	5	0.934	1,2		64.93	17 CL	KA1	1	4.728	1,2,3	
64.11	83 BI	LB7	5	0.935	1,2		64.96	17 CL	KA2	1	4.730	1,2,3	
64.19	76 OS	LB2	4	1.170	1,2,3		64.98	65 TB	LB5	3	1.577	2	
64.24	68 ER	LB3	3	1.561	1,2,3		64.98	65 TB	LY5	3	1.577	1	
64.31	75 RE	LB10	4	1.172	1,2		65.04	84 PO	LB4	5	0.947	1,2,3	
64.38	73 TA	LY5	4	1.173	1,2		65.11	60 ND	LA1	2	2.370	1,2,3	
64.42	83 BI	LB3	5	0.939	1,2,3		65.11	72 HF	LA2	3	1.580	1,2,3	
64.44	55 CS	LY1	2	2.348	1,2,3		65.11	70 YB	LY4	4	1.185	1,2	
64.47	58 CE	LB4	2	2.349	1,2,3		65.11	71 LU	LY2	4	1.185	1,2,3	
64.50	82 PB	LA1	4	1.175	1,2,3		65.18	82 PB	LA2	4	1.186	1,2,3	
64.51	68 ER	LB6	3	1.567	1,2,3		65.18	75 RE	LB7	4	1.186	1,2	
64.51	67 MO	LB2	3	1.567	1,2,3		65.30	56 BA	LB9	2	2.376	1,2	
64.56	33 AS	KA1	4	1.176	1,2,3		65.35	76 OS	LL	3	1.585	1,2,3	
64.61	72 HF	LA1	3	1.569	1,2,3		65.39	57 LA	LB6	2	2.379	1,2,3	
64.61	47 AG	LL	1	4.707	1,2,3		65.42	83 BI	LB1	5	0.952	1,2,3	
64.62	75 RE	LB5	4	1.177	1,2		65.42	60 ND	LA2	2	2.380	1,3	
64.68	58 CE	LB1	2	2.356	1,2,3		65.44	68 ER	LB1	3	1.587	1,2,3	
64.68	77 IR	LB6	4	1.178	1,2,3		65.50	82 PB	LB5	5	0.953	1,2	
64.74	71 LU	LY3	4	1.179	1,2,3		65.63	63 EU	LY3	3	1.591	1,2,3	
64.74	72 HF	LY1	4	1.179	1,2,3		65.64	56 BA	LB10	2	2.387	1,2	
64.81	76 OS	LB3	4	1.180	1,2,3		65.66	83 BI	LB2	5	0.955	1,2,3	
64.81	33 AS	KA2	4	1.180	1,2,3		65.67	64 GO	LY1	3	1.592	1,2,3	
64.81	77 IR	LB4	4	1.180	1,2,3		65.73	79 AU	LY5	5	0.956	1,2	

EDDT CRYSTAL, D# 4.404 ANGSTROMS						65.73 TO 67.29					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
65.73	90 TH	LA1	5	0.956	1,2,3	66.46	27 CO	KB5	3	1.609	1,2
65.76	53 I	LY4	2	2.391	1,2	66.48	81 TL	LA1	4	1.207	1,2,3
65.80	31 GA	KB2	4	1.196	1,2,3	66.48	75 RE	LB2	4	1.207	1,2,3
65.81	81 TL	LB9	5	0.957	1,2	66.54	31 GA	KB3	4	1.208	1,2
65.86	76 OS	LB1	4	1.197	1,2,3	66.54	31 GA	KB1	4	1.208	1,2,3
65.86	31 GA	KB5	4	1.197	1,2	66.57	55 CS	LY5	2	2.417	1,2
65.89	63 EU	LL	2	2.395	1,2,3	66.59	77 IR	LY6	5	0.967	1,2
65.89	78 PT	LY1	5	0.958	1,2,3	66.59	84 PO	LB6	5	0.967	1,2,3
65.90	63 EU	LY2	3	1.597	1,2,3	66.62	42 MO	LY5	1	4.837	1,2
65.92	71 LU	LY6	4	1.198	1,2	66.67	90 TH	LA2	5	0.968	1,2,3
65.97	77 IR	LY3	5	0.959	1,2,3	66.74	82 PB	LB3	5	0.969	1,2,3
65.97	76 OS	LY4	5	0.959	1,2	66.76	44 RU	LA1	1	4.846	1,2,3
66.00	66 DY	LB7	3	1.599	1,2	66.79	74 W	LB10	4	1.212	1,2
66.04	66 DY	LB9	3	1.600	1	66.85	76 OS	LB6	4	1.213	1,2,3
66.09	68 ER	LB4	3	1.601	1,2,3	66.87	44 RU	LA2	1	4.853	1,2,3
66.17	56 BA	LB2	2	2.404	1,2,3	66.93	71 LU	LA1	3	1.619	1,2,3
66.20	82 PB	LB7	5	0.962	1,2	66.93	67 HO	LB3	3	1.619	1,2,3
66.23	79 AU	LN	4	1.203	1,2,3	66.98	72 HF	LY5	4	1.215	1,2
66.29	74 W	LB9	4	1.204	1,2	66.98	74 W	LB5	4	1.215	1,2
66.32	60 ND	LN	2	2.409	1,2,3	67.02	27 CO	KB1	3	1.621	1,2,3
66.32	62 SM	LY4	3	1.606	1,2	67.07	67 HO	LB6	3	1.622	1,2,3
66.35	81 TL	LB10	5	0.964	1,2	67.12	66 DY	LB2	3	1.623	1,2,3
66.35	57 LA	LB3	2	2.410	1,2,3	67.16	76 OS	LB4	4	1.218	1,2,3
66.37	66 DY	LB10	3	1.607	1	67.23	81 TL	LA2	4	1.219	1,2,3
66.43	77 IR	LY2	5	0.965	1,2,3	67.29	75 RE	LB3	4	1.220	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS						67.35 TO 67.45					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
67.35	43 TC	LB1	1	4.884	1						
67.37	83 BI	LB4	5	0.977	1,2,3						
67.41	70 YB	LY3	4	1.222	1,2,3						
67.41	71 LU	LY1	4	1.222	1,2,3						
67.45	71 LU	LA2	3	1.630	1,2,3						
67.45	75 RE	LL	3	1.630	1,2,3						

EDDT CRYSTAL, D# 4.404 ANGSTROMS						67.51 TO 58.81					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
67.51	53 I	LY3	2	2.447	1,2	68.39	81 TL	LB7	5	0.990	1,2
67.51	53 I	LY2	2	2.447	1,2,3	68.42	46 PD	LL	1	4.952	1,2,3
67.54	74 W	LB7	4	1.224	1,2	68.43	40 ZR	LY2	1	4.953	1,2,3
67.57	57 LA	LB4	2	2.449	1,2,3	68.43	40 ZR	LY3	1	4.953	1,2
67.60	34 SE	KB2	5	0.980	1,2,3	68.47	77 IR	LY1	5	0.991	1,2,3
67.60	36 KR	KA1	5	0.980	1,2,3	68.48	75 RE	LB1	4	1.239	1,2,3
67.60	89 AC	LA1	5	0.980	1	68.48	55 CS	LB9	2	2.478	1,2
67.68	81 TL	LB5	5	0.981	1,2	68.54	75 RE	LY4	5	0.992	1,2
67.73	70 YB	LN	3	1.636	1,2,3	68.54	89 AC	LA2	5	0.992	1
67.76	82 PB	LB1	5	0.982	1,2,3	68.54	76 OS	LY3	5	0.992	1,2,3
67.84	82 PB	LB2	5	0.983	1,2,3	68.54	34 SE	KB1	5	0.992	1,2,3
67.85	57 LA	LB1	2	2.458	1,2,3	68.61	80 HG	LA1	4	1.241	1,2,3
67.85	69 TM	LY4	4	1.229	1	68.61	62 SM	LL	2	2.482	1,2,3
67.85	70 YB	LY2	4	1.229	1,2,3	68.61	56 BA	LB6	2	2.482	1,2,3
67.92	36 KR	KA2	5	0.984	1,2,3	68.62	34 SE	KB3	5	0.993	1,2
67.92	34 SE	KB5	5	0.984	1,2	68.62	62 SM	LY3	3	1.655	1,2,3
67.95	45 RH	LN	1	4.922	1,2,3	68.62	83 BI	LB6	5	0.993	1,2,3
67.96	64 GD	LY5	3	1.641	1	68.70	55 CS	LB7	2	2.485	1,2
67.96	42 MO	LB2	1	4.923	1,2,3	68.73	70 YB	LY6	4	1.243	1,2
67.98	54 XE	LY1	2	2.462	1	68.73	78 PT	LN	4	1.243	1,2,3
68.01	59 PR	LA1	2	2.463	1,2,3	68.76	28 NI	KA1	3	1.658	1,2,3
68.07	80 HG	LB9	5	0.986	1,2	68.76	63 EU	LY1	3	1.658	1,2,3
68.23	78 PT	LY5	5	0.988	1,2	68.81	62 SM	LY2	3	1.659	1,2,3
68.24	67 HO	LB1	3	1.647	1,2,3	68.81	67 HO	LB4	3	1.659	1,2,3
68.32	59 PR	LA2	2	2.473	1,2,3	68.81	65 TB	LB7	3	1.659	1,2

EDDT CRYSTAL, D# 4.404 ANGSTROMS						68.86 TO 70.70					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
68.86	80 HG	LB10	5	0.996	1,2	69.68	16 S	KB1	1	5.032	1,2,3
68.86	74 W	LB2	4	1.245	1,2,3	69.68	32 GE	KA2	4	1.258	1,2,3
68.92	55 CS	LB10	2	2.492	1,2	69.68	56 BA	LB3	2	2.516	1,2,3
68.92	73 TA	LB9	4	1.246	1,2	69.71	74 W	LL	3	1.678	1,2,3
68.95	28 NI	KA2	3	1.662	1,2,3	69.73	82 PB	LB4	5	1.007	1,2,3
69.02	76 OS	LY2	5	0.998	1,2,3	69.74	75 RE	LB4	4	1.259	1,2,3
69.11	22 TI	KB5	2	2.498	1,2	69.74	41 NB	LY1	1	5.036	1,2,3
69.19	65 TB	LB10	3	1.667	1,2	69.81	71 LU	LY5	4	1.260	1,2
69.24	75 RE	LB6	4	1.251	1,2,3	69.86	66 DY	LB3	3	1.681	1,2,3
69.25	76 OS	LY6	5	1.001	1,2	69.86	66 DY	LB6	3	1.681	1,2,3
69.25	81 TL	LB3	5	1.001	1,2,3	69.90	65 TB	LB2	3	1.682	1,2,3
69.27	23 V	KA1	2	2.503	1,2,3	69.95	42 MO	LB4	1	5.049	1,2,3
69.36	80 HG	LA2	4	1.253	1,2,3	69.95	70 YB	LA2	3	1.683	1,2,3
69.38	42 MO	LB3	1	5.013	1,2,3	69.95	42 MO	LB6	1	5.049	1,2,3
69.40	23 V	KA2	2	2.507	1,2,3	69.97	81 TL	LB2	5	1.010	1,2,3
69.43	73 TA	LB10	4	1.254	1,2	69.97	80 HG	LB5	5	1.010	1,2
69.43	32 GE	KA1	4	1.254	1,2,3	70.00	74 W	LB3	4	1.263	1,2,3
69.43	70 YB	LA1	3	1.672	1,2,3	70.06	73 TA	LB7	4	1.264	1,2
69.49	73 TA	LB5	4	1.255	1,2	70.32	69 TM	LY3	4	1.268	1,2,3
69.52	55 CS	LB2	2	2.511	1,2,3	70.32	70 YB	LY1	4	1.268	1,2,3
69.52	52 TE	LY4	2	2.511	1,2	70.36	81 TL	LB1	5	1.015	1,2,3
69.55	59 PR	LN	2	2.512	1,2,3	70.44	88 RA	LA2	5	1.016	1,2,3
69.57	88 RA	LA1	5	1.005	1,2,3	70.57	69 TM	LN	3	1.696	1,2,3
69.62	22 TI	KB3	2	2.514	1,2	70.68	80 HG	LB7	5	1.019	1,2
69.62	22 TI	KB1	2	2.514	1,2,3	70.70	69 TM	LY2	4	1.274	1,2,3

ECDT CRYSTAL, D# 4.404 ANGSTRCMS						70.83 TO 72.37					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
70.83	68 ER	LY4	4	1.276	1,2	71.40	30 ZN	KB5	4	1.285	1,2
70.83	79 AU	LA1	4	1.276	1,3	71.56	87 FR	LA1	5	1.030	1,2,3
70.84	79 AU	LB9	5	1.021	1,2	71.58	41 NB	LY5	1	5.151	1,2
70.84	82 PB	LB6	5	1.021	1,2,3	71.59	79 AU	LA2	4	1.288	1,2,3
70.92	56 BA	LB4	2	2.555	1,2,3	71.72	72 HF	LB9	4	1.290	1,2
70.92	77 IR	LY5	5	1.022	1,2	71.72	66 DY	LB4	3	1.720	1,2,3
70.99	43 TC	LA1	1	5.114	1	71.72	69 TM	LY6	4	1.290	1
71.05	83 BI	MA1	1	5.118	1,2	71.72	75 RE	LY2	5	1.032	1,2,3
71.11	58 CE	LA1	2	2.561	1,2,3	71.72	74 W	LB6	4	1.290	1,2,3
71.13	43 TC	LA2	1	5.123	1	71.79	53 I	LY1	2	2.582	1,2,3
71.15	63 EU	LY5	3	1.706	1,2	71.87	64 GD	LB7	3	1.723	1,2
71.16	76 OS	LY1	5	1.025	1,2,3	71.88	80 HG	LB3	5	1.034	1,2,3
71.21	74 W	LB1	4	1.282	1,2,3	71.92	64 GD	LB9	3	1.724	1
71.23	83 BI	MA2	1	5.120	1,2	72.00	42 MO	LB1	1	5.177	1,2,3
71.24	75 RE	LY3	5	1.026	1,2,3	72.01	69 TM	LA1	3	1.726	1,2,3
71.24	66 DY	LB1	3	1.710	1,2,3	72.04	30 ZN	KB1	4	1.295	1,2,3
71.31	52 TE	LY2	2	2.567	1,3	72.06	62 SM	LY1	3	1.727	1,2,3
71.31	52 TE	LY3	2	2.567	1,2	72.11	73 TA	LL	3	1.728	1,2,3
71.31	56 BA	LB1	2	2.567	1,2,3	72.13	75 RE	LY6	5	1.037	1,2
71.34	77 IR	LN	4	1.284	1,2,3	72.14	55 CS	LB6	2	2.593	1,2,3
71.34	73 TA	LB2	4	1.284	1,2,3	72.24	72 HF	LB5	4	1.293	1,2
71.34	30 ZN	KB2	4	1.284	1,2,3	72.24	72 HF	LB10	4	1.293	1,2
71.40	74 W	LY4	5	1.023	1,2	72.25	64 GD	LB10	3	1.731	1,2
71.40	79 AU	LB10	5	1.023	1,2	72.29	81 TL	LB4	5	1.039	1,2,3
71.40	58 CE	LA2	2	2.570	1,2,3	72.37	79 AU	LB5	5	1.040	1,2

EDDT CRYSTAL, D# 4.404 ANGSTROMS						72.37 TO 74.15					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
72.37	80 HG	LB2	5	1.040	1,2,3	73.27	55 CS	LB3	2	2.628	1,2,3
72.37	35 BR	KA1	5	1.040	1,2,3	73.34	68 ER	LY3	4	1.315	1,2,3
72.45	44 RU	LN	1	5.205	1,2,3	73.34	69 TM	LY1	4	1.315	1,2,3
72.50	74 W	LB4	4	1.302	1,2,3	73.40	83 BI	LL	4	1.316	1,2,3
72.53	87 FR	LA2	5	1.042	1	73.47	68 ER	LN	3	1.756	1,2,3
72.54	69 TM	LA2	3	1.737	1,2,3	73.50	78 PT	LB9	5	1.054	1,2
72.64	45 RH	LL	1	5.217	1,2,3	73.52	26 FE	KB1	3	1.757	1,2,3
72.69	35 BR	KA2	5	1.044	1,2,3	73.63	51 SB	LY4	2	2.639	1,2
72.74	65 TB	LB6	3	1.741	1,2,3	73.71	39 Y	LY2	1	5.283	1,2,3
72.75	72 HF	LB7	4	1.306	1,2	73.71	39 Y	LY3	1	5.283	2
72.75	70 YB	LY5	4	1.306	1,2	73.73	68 ER	LY2	4	1.321	1,2,3
72.77	33 AS	KB2	5	1.045	1,2,3	73.74	86 RN	LA1	5	1.057	1
72.82	73 TA	LB3	4	1.307	1,2,3	73.74	33 AS	KB1	5	1.057	1,2,3
72.88	26 FE	KB5	3	1.744	1,2	73.74	82 PB	MA1	1	5.285	1,2
72.88	60 ND	LY4	3	1.744	1,2	73.74	76 OS	LY5	5	1.057	1,2
72.93	64 GD	LB2	3	1.745	1,2,3	73.79	67 HO	LY4	4	1.322	1,2
72.98	65 TB	LB3	3	1.746	1,2,3	73.82	33 AS	KB3	5	1.058	1,2
72.98	41 NB	LB2	1	5.238	1,2,3	73.91	83 BI	LN	5	1.059	1,2,3
73.01	58 CE	LN	2	2.620	1,2,3	73.92	78 PT	LA2	4	1.324	1,2,3
73.09	33 AS	KB5	5	1.049	1,2	73.97	82 PB	MA2	1	5.299	1,2
73.09	80 HG	LB1	5	1.049	1,2,3	74.05	72 HF	LB2	4	1.326	1,2,3
73.17	81 TL	LB6	5	1.050	1,2,3	74.07	75 RE	LY1	5	1.061	1,2,3
73.17	79 AU	LB7	5	1.050	1,2	74.12	73 TA	LB1	4	1.327	1,2,3
73.21	78 PT	LA1	4	1.313	1,2,3	74.15	41 NB	LB3	1	5.310	1,2,3
73.21	54 XE	LB2	2	2.626	1	74.15	74 W	LY3	5	1.062	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS							74.15 TO 75.72						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
74.15	78 PT	LB10	5	1.062	1,2		74.98	41 NB	LB6	1	5.361	1,2,3	
74.18	76 OS	LN	4	1.328	1,2,3		75.03	63 EU	LB7	3	1.788	1,2	
74.21	53 I	LY5	2	2.657	1,2		75.07	55 CS	LB1	2	2.683	1,2,3	
74.38	73 TA	LB6	4	1.331	1,2,3		75.08	27 CO	KA1	3	1.789	1,2,3	
74.39	73 TA	LY4	5	1.065	1,2		75.10	71 LU	LB5	4	1.342	1,2	
74.44	65 TB	LB1	3	1.776	1,2,3		75.13	74 W	LY6	5	1.074	1,2	
74.48	57 LA	LA1	2	2.665	1,2,3		75.16	16 S	KA1	1	5.372	1,2,3	
74.51	55 CS	LB4	2	2.666	1,2,3		75.16	71 LU	LB10	4	1.343	1,2	
74.56	92 U	LL	5	1.067	2,3		75.21	16 S	KA2	1	5.375	1,2,3	
74.59	62 SM	LY5	3	1.779	1		75.23	31 GA	KA2	4	1.344	1,2,3	
74.59	62 SM	LB5	3	1.779	2		75.23	63 EU	LB9	3	1.792	1,2	
74.64	74 W	LY2	5	1.068	1,2,3		75.28	27 CO	KA2	3	1.793	1,2,3	
74.64	79 AU	LB3	5	1.068	1,2,3		75.36	73 TA	LB4	4	1.346	1,2,3	
74.69	72 HF	LL	3	1.781	1,2,3		75.36	40 ZR	LY1	1	5.384	1,2,3	
74.71	71 LU	LB9	4	1.336	1,2		75.43	68 ER	LA2	3	1.796	1,2,3	
74.72	86 RN	LA2	5	1.069	1		75.43	60 ND	LY3	3	1.796	1,2,3	
74.72	41 NB	LB4	1	5.345	1,2,3		75.46	51 SB	LY3	2	2.695	1,2	
74.77	57 LA	LA2	2	2.674	1,2,3		75.46	51 SB	LY2	2	2.695	1,2,3	
74.80	79 AU	LB2	5	1.070	1,2,3		75.56	71 LU	LB7	4	1.349	1,2	
74.84	68 ER	LA1	3	1.784	1,2,3		75.63	82 PB	LL	4	1.350	1,2,3	
74.84	60 ND	LL	2	2.676	1,2,3		75.63	63 EU	LB10	3	1.800	1,2	
74.89	65 TB	LB4	3	1.785	1,2,3		75.63	80 HG	LB6	5	1.080	1,2,3	
74.97	31 GA	KA1	4	1.340	1,2,3		75.67	60 ND	LY2	3	1.801	1,2,3	
74.97	80 HG	LB4	5	1.072	1,2,3		75.69	77 IR	LA1	4	1.351	1,2,3	
74.97	78 PT	LB5	5	1.072	1,2		75.72	42 MO	LA1	1	5.406	1,2,3	

EDDT CRYSTAL, D# 4.404 ANGSTROMS							75.79 TO 77.75					
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF
75.79	78 PT	LB7	5	1.082	1,2		76.95	71 LU	LB2	4	1.370	1,2,3
75.82	72 HF	LB3	4	1.353	1,2,3		76.95	57 LA	LN	2	2.740	1,2,3
75.86	42 MO	LA2	1	5.414	1,2,3		76.95	67 HO	LY2	4	1.370	1,2,3
75.95	79 AU	LB1	5	1.084	1,2,3		77.03	85 AT	LA2	5	1.097	1
75.95	69 TM	LY5	4	1.355	1,2		77.03	77 IR	LB10	5	1.097	1,2
75.97	64 GD	LB6	3	1.807	1,2,3		77.15	75 RE	LN	4	1.373	1,2,3
76.02	52 TE	LY1	2	2.712	1,2,3		77.15	41 NB	LB1	1	5.492	1,2,3
76.04	85 AT	LA1	5	1.085	1		77.20	73 TA	LY3	5	1.099	1,2,3
76.05	53 I	LB9	2	2.713	1,2		77.20	74 W	LY1	5	1.099	1,2,3
76.22	63 EU	LB2	3	1.812	1,2,3		77.21	72 HF	LB1	4	1.374	1,2,3
76.28	53 I	LB10	2	2.720	1,2		77.21	72 HF	LB6	4	1.374	1,2,3
76.37	64 GD	LB3	3	1.815	1,2,3		77.21	22 TI	KA1	2	2.748	1,2,3
76.42	77 IR	LA2	4	1.362	1,2,3		77.21	66 DY	LY4	4	1.374	1,2
76.42	61 PM	LY1	3	1.816	1		77.23	40 ZR	LY5	1	5.497	1,2
76.45	77 IR	LB9	5	1.090	1,2		77.28	53 I	LB2	2	2.750	1,2,3
76.53	91 PA	LL	5	1.091	1,2,3		77.33	44 RU	LL	1	5.503	1,2,3
76.55	67 HO	LY3	4	1.364	1,2,3		77.35	22 TI	KA2	2	2.752	1,2,3
76.55	68 ER	LY1	4	1.364	1,2,3		77.41	71 LU	LL	3	1.836	1,2,3
76.57	59 PR	LY4	3	1.819	1,2		77.45	78 PT	LB2	5	1.102	1,2,3
76.62	82 PB	LN	5	1.092	1,2,3		77.53	72 HF	LY4	5	1.103	1,2
76.62	53 I	LB7	2	2.730	1,2		77.61	78 PT	LB3	5	1.104	1,2,3
76.63	81 TL	MA1	1	5.461	1,2		77.68	29 CU	KB2	4	1.381	2,3
76.78	75 RE	LY5	5	1.094	1,2		77.70	73 TA	LY2	5	1.105	1,2,3
76.81	81 TL	MA2	1	5.472	1,2		77.70	34 SE	KA1	5	1.105	1,2,3
76.91	67 HO	LN	3	1.826	1,2,3		77.75	21 SC	KB5	2	2.764	1,2

EDDT CRYSTAL, D# 4.404 ANGSTROMS						77.75 TO 79.70					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
77.75	29 CU	KB5	4	1.382	2	78.48	29 CU	KB3	4	1.393	1,2
77.78	77 IR	LB5	5	1.106	1,2	78.54	77 IR	LB7	5	1.115	1,2
77.86	79 AU	LB4	5	1.107	1,2,3	78.54	90 TH	LL	5	1.115	1,2,3
77.86	67 HO	LA1	3	1.845	1,2,3	78.62	70 YB	LB7	4	1.395	1,2
77.88	70 YB	LB9	4	1.384	1,2	78.62	52 TE	LY5	2	2.790	1,2
77.91	64 GD	LB1	3	1.846	1,2,3	78.67	62 SM	LB9	3	1.861	1,2
77.95	81 TL	LL	4	1.385	1,2,3	78.70	32 GE	KB2	5	1.117	1,2,3
78.03	34 SE	KA2	5	1.109	1,2,3	78.72	40 ZR	LB2	1	5.586	2,3
78.08	70 YB	LB5	4	1.387	1,2	78.87	32 GE	KB5	5	1.119	1,2
78.12	56 BA	LA1	2	2.775	1,2,3	78.96	78 PT	LB1	5	1.120	1,2,3
78.18	50 SN	LY4	2	2.777	1,2	79.02	71 LU	LB3	4	1.401	1,2,3
78.20	79 AU	LB6	5	1.111	1,2,3	79.06	54 XE	LB1	2	2.803	1
78.27	64 GD	LB4	3	1.853	1,2,3	79.07	62 SM	LB10	3	1.869	1,2
78.28	21 SC	KB1	2	2.780	1,2,3	79.09	76 OS	LA2	4	1.402	1,2,3
78.35	70 YB	LB10	4	1.391	1,2	79.33	63 EU	LB6	3	1.874	1,2,3
78.35	76 OS	LA1	4	1.391	1,2,3	79.33	59 PR	LY3	3	1.874	1,2,3
78.37	60 ND	LY6	3	1.855	2	79.36	68 ER	LY5	4	1.406	1,2
78.42	62 SM	LB7	3	1.856	1,2	79.46	76 OS	LB9	5	1.126	1,2
78.42	72 HF	LB4	4	1.392	1,2,3	79.46	84 PC	LA2	5	1.126	1,2,3
78.42	59 PR	LL	2	2.784	1,2,3	79.51	40 ZR	LB3	1	5.633	1,2,3
78.42	29 CU	KB1	4	1.392	1,2,3	79.53	60 ND	LY1	3	1.878	1,2,3
78.42	67 HO	LA2	3	1.856	1,2,3	79.58	59 PR	LY2	3	1.879	1,2,3
78.45	84 PO	LA1	5	1.114	1,2,3	79.63	81 TL	LN	5	1.128	1,2,3
78.45	56 BA	LA2	2	2.785	1,2,3	79.70	38 SR	LY2	1	5.644	1,2,3
78.45	73 TA	LY6	5	1.114	1,2	79.70	38 SR	LY3	1	5.644	1,2

EDDT CRYSTAL, D# 4.404 ANGSTROMS						79.72 TO 81.68					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
79.72	32 GE	KB3	5	1.129	1,2	80.55	52 TE	LB10	2	2.847	1,2
79.72	32 GE	KB1	5	1.129	1,2,3	80.58	71 LU	LB1	4	1.424	1,2,3
79.73	62 SM	LB2	3	1.882	1,2,3	80.60	58 CE	LY4	3	1.899	1,2
79.97	74 W	LY5	5	1.132	1,2	80.65	76 OS	LB5	5	1.140	1,2
79.97	70 YB	LB2	4	1.415	1,2,3	80.69	51 SB	LY1	2	2.851	1,2,3
79.99	63 EU	LB3	3	1.887	1,2,3	80.74	77 IR	LB3	5	1.141	1,2,3
80.06	76 OS	LB10	5	1.133	1,2	80.79	65 TB	LY4	4	1.427	1,2
80.07	50 SN	LY2	2	2.833	1,3	80.82	78 PT	LB4	5	1.142	1,2,3
80.07	80 HG	MA1	1	5.666	1,2	80.82	40 ZR	LB6	1	5.710	1,2,3
80.07	80 HG	MA2	1	5.666	1,2	80.91	71 LU	LY4	5	1.143	1
80.11	67 HO	LY1	4	1.417	1,2,3	80.99	72 HF	LY2	5	1.144	1,2,3
80.11	40 ZR	LB4	1	5.668	1,2,3	80.99	83 BI	LA1	5	1.144	1,2,3
80.11	66 DY	LY3	4	1.417	1,2,3	80.99	78 PT	LB6	5	1.144	1,2,3
80.21	53 I	LB6	2	2.837	1,2,3	81.06	41 NB	LA1	1	5.724	1,2,3
80.23	77 IR	LB2	5	1.135	1,2,3	81.06	56 BA	LN	2	2.862	1,2,3
80.24	71 LU	LB6	4	1.419	1,2,3	81.10	52 TE	LB7	2	2.863	1,2
80.28	52 TE	LB9	2	2.839	1,2	81.11	66 DY	LA1	3	1.909	1,2,3
80.35	70 YB	LL	3	1.894	1,2,3	81.16	25 MN	KB1	3	1.910	1,2,3
80.38	74 W	LN	4	1.421	1,2,3	81.20	75 RE	LA1	4	1.433	1,2,3
80.45	80 HG	LL	4	1.422	1,2,3	81.20	41 NB	LA2	1	5.732	2,3
80.48	72 HF	LY3	5	1.138	1,2,3	81.34	30 ZN	KA1	4	1.435	1,2,3
80.48	73 TA	LY1	5	1.138	1,2,3	81.42	76 OS	LB7	5	1.149	1,2
80.50	25 MN	KB5	3	1.897	1,2	81.47	53 I	LB3	2	2.874	1,2,3
80.50	66 DY	LN	3	1.897	1,2,3	81.61	30 ZN	KA2	4	1.439	1,2,3
80.52	66 DY	LY2	4	1.423	1,2,3	81.68	71 LU	LB4	4	1.440	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS						81.68 TO 83.97					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
81.68	63 EU	LB1	3	1.920	1,2,3	83.18	42 MO	LN	1	5.847	1,2,3
81.68	66 DY	LA2	3	1.920	1,2,3	83.20	67 HO	LY5	4	1.462	1,2
81.75	69 EM	LB10	4	1.441	1	83.24	76 OS	LB2	5	1.170	1,2,3
81.75	52 TE	LB2	2	2.882	1,2,3	83.27	49 IN	LY4	2	2.926	1,2
81.94	72 HF	LY6	5	1.155	1,2	83.27	69 TM	LB2	4	1.463	1,2,3
81.94	83 BI	LA2	5	1.155	1,2,3	83.31	79 AU	MA2	1	5.854	1,2
81.96	75 EE	LA2	4	1.444	1,2,3	83.41	75 RE	LB10	5	1.172	1,2
81.99	63 EU	LB4	3	1.926	1,2,3	83.48	51 SB	LY5	2	2.932	1,2
82.09	55 CS	LA1	2	2.892	1,2,3	83.48	70 YB	LB6	4	1.466	1,2,3
82.09	58 CE	LL	2	2.892	1,2,3	83.50	69 TM	LL	3	1.955	1,2,3
82.20	77 IR	LB1	5	1.158	1,2,3	83.50	58 CE	LY3	3	1.955	1,2,3
82.44	15 P	KB1	1	5.804	1,2,3	83.50	73 TA	LY5	5	1.173	1,2
82.44	55 CS	LA2	2	2.902	1,2,3	83.60	61 PM	LB2	3	1.957	1
82.46	60 WD	LY5	3	1.935	1,2	83.66	53 I	LB1	2	2.937	1,2,3
82.51	70 YB	LB3	4	1.452	1,2,3	83.67	39 Y	LY5	1	5.875	1,2
82.51	26 FE	KA1	3	1.936	1,2,3	83.67	82 PB	LA1	5	1.175	1,2,3
82.72	26 FE	KA2	3	1.940	1,2,3	83.76	58 CE	LY2	3	1.960	1,2,3
82.72	80 HG	LN	5	1.164	1,2,3	83.76	33 AS	KA1	5	1.176	1,2,3
82.79	53 I	LB4	2	2.912	1,2,3	83.81	59 PR	LY1	3	1.961	1,2,3
82.80	75 RE	LB9	5	1.165	1,2	83.83	73 TA	LN	4	1.471	1,2,3
82.98	88 RA	LL	5	1.167	1,2,3	83.83	65 TB	LY3	4	1.471	1,2,3
82.99	40 ZR	LB1	1	5.836	1,2,3	83.85	75 RE	LB5	5	1.177	1,2
83.03	62 SM	LB6	3	1.946	1,2,3	83.86	62 SM	LB3	3	1.962	1,2,3
83.06	79 AU	MA1	1	5.840	1,2	83.93	77 IR	LB6	5	1.178	1,2,3
83.06	79 AU	LL	4	1.460	1,2,3	83.97	66 DY	LY1	4	1.473	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS						84.02 TO 86.41					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
84.02	72 HF	LY1	5	1.179	1,2,3	85.17	49 IN	LY3	2	2.980	1,2
84.02	71 LU	LY3	5	1.179	1,2,3	85.17	49 IN	LY2	2	2.980	1,2,3
84.11	76 OS	LB3	5	1.180	1,2,3	85.24	70 YB	LB4	4	1.491	1,2,3
84.11	33 AS	KA2	5	1.180	1,2,3	85.45	68 ER	LB10	4	1.494	1,2
84.11	77 IR	LB4	5	1.180	1,2,3	85.45	68 ER	LB7	4	1.494	1,2
84.18	74 W	LA1	4	1.476	1,2,3	85.52	31 GA	KB2	5	1.196	1,2,3
84.18	70 YB	LB1	4	1.476	1,2,3	85.57	39 Y	LB3	1	5.983	1,2,3
84.25	65 TB	LY2	4	1.477	1,2,3	85.61	31 GA	KB5	5	1.197	1,2
84.32	71 LU	LN	4	1.478	1,2	85.61	76 OS	LB1	5	1.197	1,2,3
84.44	65 TB	LN	3	1.973	1	85.63	55 CS	LN	2	2.993	1,2,3
84.55	65 TB	LA1	3	1.975	1,2,3	85.70	71 LU	LY6	5	1.198	1,2
84.55	70 YB	LY4	5	1.185	1,2	85.77	62 SM	LB1	3	1.998	1,2,3
84.55	71 LU	LY2	5	1.185	1,2,3	85.80	78 PT	LL	4	1.499	1,2,3
84.64	82 PB	LA2	5	1.186	1,2,3	85.88	62 SM	LB4	3	2.000	1,2,3
84.64	75 RE	LB7	5	1.186	1,2	85.88	28 NI	KB1	4	1.500	1,2,3
84.81	68 ER	LB9	4	1.485	1,2	85.91	50 SN	LY1	2	3.001	1,2,3
84.81	64 GD	LY4	4	1.485	1,2	86.05	51 SB	LB7	2	3.005	1
84.85	52 TE	LB6	2	2.971	1,2,3	86.09	57 LA	LL	2	3.006	1,2,3
84.88	51 SB	LB9	2	2.972	1,2	86.14	79 AU	LN	5	1.203	1,2,3
84.95	74 W	LA2	4	1.487	1,2,3	86.19	52 TE	LB3	2	3.009	1,2,3
84.97	57 LA	LY4	3	1.983	1,2	86.19	39 Y	LB4	1	6.018	1,2,3
85.09	28 NI	KB2	4	1.489	1,2,3	86.23	69 TM	LB3	4	1.505	1,2,3
85.09	28 NI	KB5	4	1.489	1,2	86.23	74 W	LB9	5	1.204	1,2
85.13	65 TB	LA2	3	1.986	1,2,3	86.36	60 ND	LB7	3	2.009	1,2
85.13	51 SB	LB10	2	2.979	1,2	86.41	54 XE	LA1	2	3.015	1

EDOT CRYSTAL, D# 4.404 ANGSTROMS						86.50 TO 88.57					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
86.50	81 TL	LA1	5	1.207	1,2,3	87.45	73 TA	LA1	4	1.522	1,2,3
86.50	75 RE	LB2	5	1.207	1,2,3	87.48	76 OS	LB4	5	1.218	1,2,3
86.59	31 GA	KB3	5	1.208	1,2	87.52	72 HF	LN	4	1.523	1,2,3
86.59	31 GA	KB1	5	1.208	1,2,3	87.52	52 TE	LB4	2	3.046	1,2,3
86.68	37 RE	LY3	1	6.045	1,2	87.56	39 Y	LB6	1	6.094	1,2,3
86.69	78 PT	MA1	1	6.045	1,2	87.57	81 TL	LA2	5	1.219	1,2,3
86.69	51 S6	LB2	2	3.023	1,2,3	87.66	75 RE	LB3	5	1.220	1,2,3
86.69	37 RB	LY2	1	6.045	1,2,3	87.81	60 ND	LB2	3	2.036	1,2,3
86.73	60 ND	LB9	3	2.015	1,2	87.84	70 YB	LY3	5	1.222	1,2,3
86.77	54 XE	LA2	2	3.025	1	87.84	71 LU	LY1	5	1.222	1,2,3
86.87	68 ER	LB2	4	1.514	1,2,3	87.95	64 GD	LY3	4	1.529	1,2,3
86.89	68 ER	LL	3	2.019	1,2,3	88.03	65 TB	LY1	4	1.530	1,2,3
86.89	78 PT	MA2	1	6.057	1,2	88.03	74 W	LB7	5	1.224	1,2
86.95	69 TM	LB6	4	1.515	1,2,3	88.03	69 TM	LB1	4	1.530	1,2,3
86.95	74 W	LB10	5	1.212	1,2	88.08	57 LA	LY3	3	2.041	1,2,3
86.95	59 PR	LY5	3	2.020	1,2	88.24	73 TA	LA2	4	1.533	1,2,3
86.98	21 SC	KA1	2	3.031	1,2,3	88.32	64 GD	LY2	4	1.534	1,2,3
87.03	76 OS	LB6	5	1.213	1,2,3	88.35	64 GD	LA1	3	2.046	1,2,3
87.11	60 ND	LB10	3	2.023	1,2	88.35	57 LA	LY2	3	2.046	1,2,3
87.13	21 SC	KA2	2	3.035	1,2,3	88.46	58 CE	LY1	3	2.048	1,2,3
87.13	40 ZR	LA1	1	6.070	1,2,3	88.48	69 TM	LY4	5	1.229	1
87.16	66 DY	LY5	4	1.518	1,2	88.48	70 YB	LY2	5	1.229	1,2,3
87.21	74 W	LB5	5	1.215	1,2	88.52	64 GD	LN	3	2.049	1,2,3
87.21	72 HF	LY5	5	1.215	1,2	88.53	20 CA	KB5	2	3.074	1,2
87.21	40 ZR	LA2	1	6.078	1,2,3	88.57	42 MO	LL	1	6.150	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS						88.64 TO 89.94					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
88.64	52 TE	LB1	2	3.077	1,2,3						
88.66	15 P	KA2	1	6.155	1,2,3						
88.66	15 P	KA1	1	6.155	1,2,3						
88.82	77 IR	LL	4	1.541	1,2,3						
88.82	29 CU	KA1	4	1.541	1,2,3						
88.93	50 SN	LY5	2	3.085	1,2						
88.95	64 GD	LA2	3	2.057	1,2,3						
89.04	29 CU	KA2	4	1.544	1,2,3						
89.04	63 EU	LY4	4	1.544	1,2						
89.04	69 TM	LB4	4	1.544	1,2,3						
89.12	20 CA	KB1	2	3.090	1,2,3						
89.39	75 RE	LB1	5	1.239	1,2,3						
89.41	67 HO	LB10	4	1.549	1						
89.57	80 HG	LA1	5	1.241	1,2,3						
89.68	41 NB	LN	1	6.211	1,2,3						
89.70	39 Y	LB1	1	6.212	1,2,3						
89.72	24 CR	KB5	3	2.071	1,2						
89.76	78 PT	LN	5	1.243	1,2,3						
89.76	70 YB	LY6	5	1.243	1,2						
89.94	74 W	LB2	5	1.245	1,2,3						
89.94	56 BA	LY4	3	2.075	1,2						

EDDT CRYSTAL, D# 4.404 ANGSTROMS						90.03 TO 92.51					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
90.03	73 TA	LB9	5	1.246	1,2	91.25	53 I	LA1	2	3.148	1,2,3
90.03	50 SN	LB9	2	3.115	1,2	91.25	38 SR	LY5	1	6.296	1,2
90.03	51 SB	LB6	2	3.115	1,2,3	91.33	71 LU	LY5	5	1.260	1,2
90.25	50 SN	LB10	2	3.121	1,2	91.33	59 PR	LB9	3	2.100	1,2
90.27	61 PM	LB1	3	2.081	1,2,3	91.40	51 SB	LB3	2	3.152	1,2,3
90.29	68 ER	LB3	4	1.561	1,2,3	91.44	25 MN	KA1	3	2.102	1,2,3
90.49	24 CR	KB1	3	2.085	1,2,3	91.48	65 TB	LB5	4	1.577	2
90.49	75 RE	LB6	5	1.251	1,2,3	91.48	65 TB	LY5	4	1.577	1
90.49	24 CR	KB3	3	2.085	1,2	91.51	50 SN	LB7	2	3.155	1,2
90.55	67 HO	LL	3	2.086	1,2,3	91.55	60 NO	LB6	3	2.104	1,2,3
90.60	77 IR	MA1	1	5.26	1,2	91.61	74 W	LB3	5	1.263	1,2,3
90.68	80 HG	LA2	5	1.253	1,2,3	91.63	53 I	LA2	2	3.153	1,2,3
90.73	67 HO	LB2	4	1.567	1,2,3	91.66	25 MN	KA2	3	2.106	1,2,3
90.73	68 ER	LB6	4	1.567	1,2,3	91.70	72 HF	LA2	4	1.583	1,2,3
90.77	73 TA	LB10	5	1.254	1,2	91.70	73 TA	LB7	5	1.264	1,2
90.77	32 GE	KA1	5	1.254	1,2,3	91.72	59 PR	LB10	3	2.107	1,2
90.77	56 BA	LL	2	3.135	1,2,3	91.78	49 IN	LY1	2	3.162	1,2,3
90.83	59 PR	LB7	3	2.091	1,2	91.89	58 CE	LY5	3	2.110	1,2
90.85	48 CD	LY3	2	3.137	1,2	92.08	76 OS	LL	4	1.585	1,2,3
90.86	73 TA	LB5	5	1.255	1,2	92.08	69 TM	LY3	5	1.268	1,2,3
90.86	77 IR	MA2	1	6.275	1,2	92.08	70 YB	LY1	5	1.268	1,2,3
90.88	48 CD	LY2	2	3.138	1,2,3	92.23	68 ER	LB1	4	1.587	1,2,3
90.88	72 HF	LA1	4	1.569	1,2,3	92.26	50 SN	LB2	2	3.175	1,2,3
91.14	32 GE	KA2	5	1.258	1,2,3	92.39	59 PR	LB2	3	2.119	1,2,3
91.24	75 RE	LB4	5	1.259	1,2,3	92.51	63 EU	LA1	3	2.121	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS							92.53 TO 95.48						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
92.53	63 EU	LY3	4	1.591	1,2,3		93.89	27 CO	KB5	4	1.609	1,2	
92.58	38 SR	LB3	1	6.367	1,2,3		93.97	79 AU	LA2	5	1.288	1,2,3	
92.60	64 GD	LY1	4	1.592	1,2,3		94.14	39 Y	LA1	1	6.449	1,2,3	
92.64	69 TM	LY2	5	1.274	1,2,3		94.16	74 W	LB6	5	1.290	1,2,3	
92.79	60 ND	LB3	3	2.126	1,2,3		94.16	69 TM	LY6	5	1.290	1	
92.83	79 AU	LA1	5	1.276	1,3		94.16	72 HF	LB9	5	1.290	1,2	
92.83	68 ER	LY4	5	1.276	1,2		94.19	51 SB	LB1	2	3.226	1,2,3	
92.83	51 SB	LB4	2	3.190	1,2,3		94.27	39 Y	LA2	1	6.456	1,2,3	
92.98	63 EU	LY2	4	1.597	1,2,3		94.62	66 DY	LL	3	2.158	1,2,3	
93.07	63 EU	LN	3	2.131	1		94.64	30 ZN	KB1	5	1.295	1,2,3	
93.13	66 DY	LB7	4	1.599	1,2		94.65	67 HO	LB3	4	1.619	1,2,3	
93.13	63 EU	LA2	3	2.132	1,2,3		94.65	71 LU	LA1	4	1.619	1,2,3	
93.21	66 DY	LB9	4	1.600	1		94.81	27 CO	KB1	4	1.621	1,2,3	
93.24	56 BA	LY3	3	2.134	1,2,3		94.89	67 HO	LB6	4	1.622	1,2,3	
93.26	38 SR	LB4	1	6.403	1,2,3		94.92	76 OS	MA1	1	6.490	1,2	
93.28	68 ER	LB4	4	1.601	1,2,3		94.92	76 OS	MA2	1	6.490	1,2	
93.40	74 W	LB1	5	1.282	1,2,3		94.92	72 HF	LB10	5	1.298	1,2	
93.47	56 BA	LY2	3	2.138	1,2,3		94.92	72 HF	LB5	5	1.298	1,2	
93.59	77 IR	LN	5	1.284	1,2,3		94.96	66 DY	LB2	4	1.623	1,2,3	
93.59	73 TA	LB2	5	1.284	1,2,3		95.08	49 IN	LY5	2	3.249	1,2	
93.59	30 ZN	KB2	5	1.284	1,2,3		95.14	60 ND	LB4	3	2.167	1,2,3	
93.66	62 SM	LY4	4	1.606	1,2		95.14	60 ND	LB1	3	2.167	1,2,3	
93.68	30 ZN	KB5	5	1.285	1,2		95.31	74 W	LB4	5	1.302	1,2,3	
93.70	57 LA	LY1	3	2.142	1,2,3		95.44	41 NB	LL	1	6.517	1,2,3	
93.74	66 DY	LB10	4	1.607	1		95.48	38 SR	LB6	1	6.519	1,2,3	

EDDT CRYSTAL, D# 4.404 ANGSTROMS						95.50 TO 98.15					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
95.50	71 LU	LA2	4	1.630	1,2,3	97.00	62 SM	LA1	3	2.199	1,2,3
95.50	75 RE	LL	4	1.630	1,2,3	97.16	68 ER	LY2	5	1.321	1,2,3
95.54	55 CS	LY4	3	2.174	1,2	97.20	40 ZR	LN	1	6.607	1,2,3
95.66	75 RE	MA1	1	6.528	1,2	97.26	67 HO	LY4	5	1.322	1,2
95.70	70 VB	LY5	5	1.306	1,2	97.30	50 SN	LB3	2	3.306	1,2,3
95.70	72 HF	LB7	5	1.306	1,2	97.30	47 AG	LY2	2	3.306	1,3
95.77	55 CS	LL	2	3.267	1,2,3	97.30	47 AG	LY3	2	3.306	1,2
95.79	73 TA	LB3	5	1.307	1,2,3	97.36	57 LA	LY5	3	2.205	1,2
95.81	49 IN	LB9	2	3.268	1,2	97.46	78 PT	LA2	5	1.324	1,2,3
95.85	50 SN	LB6	2	3.269	1,2,3	97.46	62 SM	LY3	4	1.655	1,2,3
95.89	58 CE	LB7	3	2.180	1,2	97.53	38 SR	LB1	1	6.624	1,2,3
95.97	70 VB	LN	4	1.636	1,2,3	97.59	58 CE	LB2	3	2.209	1,2,3
96.05	49 IN	LB10	2	3.274	1,2	97.65	72 HF	LB2	5	1.325	1,2,3
96.28	53 LA	LN	2	3.280	1,2,3	97.65	62 SM	LA2	3	2.210	1,2,3
96.36	58 CE	LB9	3	2.188	1,2	97.69	28 NI	KA1	4	1.658	1,2,3
96.36	64 SD	LY5	4	1.641	1	97.69	63 EU	LY1	4	1.658	1,2,3
96.38	78 PT	LA1	5	1.313	1,2,3	97.75	73 TA	LB1	5	1.327	1,2,3
96.47	59 PR	LB6	3	2.190	1,2,3	97.77	65 TB	LB7	4	1.659	1,2
96.57	68 ER	LY3	5	1.315	1,2,3	97.77	67 HO	LB4	4	1.659	1,2,3
96.57	69 IM	LY1	5	1.315	1,2,3	97.77	62 SM	LY2	4	1.659	1,2,3
96.63	52 FE	LA1	2	3.289	1,2,3	97.85	76 OS	LN	5	1.328	1,2,3
96.67	83 BI	LL	5	1.316	1,2,3	98.01	28 NI	KA2	4	1.662	1,2,3
96.77	58 CE	LB10	3	2.195	1,2	98.07	59 PR	LB3	3	2.217	1,2,3
96.83	67 HO	LB1	4	1.647	1,2,3	98.13	62 SM	LN	3	2.218	1,2,3
96.98	52 TE	LA2	2	3.298	1,2,3	98.15	73 TA	LB6	5	1.331	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS						98.41 TO 102.14					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
98.41	65 TB	LB10	4	1.667	1,2	100.16	77 IR	LA1	5	1.351	1,2,3
98.49	48 CD	LY1	2	3.336	1,2,3	100.36	59 PR	LB4	3	2.255	1,2,3
98.57	49 IN	LB2	2	3.338	1,2,3	100.36	72 HF	LB3	5	1.353	1,2,3
98.65	71 LU	LB9	5	1.336	1,2	100.42	14 SI	KB1	1	6.768	1,2,3
98.77	50 SN	LB4	2	3.343	1,2,3	100.46	50 SN	LB1	2	3.385	1,2,3
98.81	70 YB	LA1	4	1.672	1,2,3	100.54	59 PR	LB1	3	2.258	1,2,3
99.03	55 CS	LY3	3	2.233	1,2,3	100.56	69 TM	LY5	5	1.355	1,2
99.05	31 GA	KA1	5	1.340	1,2,3	100.74	69 TM	LN	4	1.696	1,2,3
99.09	65 TB	LL	3	2.234	1,2,3	100.81	37 RB	LB3	1	6.787	1,2,3
99.25	71 LU	LB5	5	1.342	1,2	101.22	23 V	KB5	3	2.269	1,2
99.27	55 CS	LY2	3	2.237	1,2,3	101.28	77 IR	LA2	5	1.362	1,2,3
99.29	74 W	LL	4	1.678	1,2,3	101.48	37 RB	LB4	1	6.820	1,2,3
99.35	71 LU	LB10	5	1.343	1,2	101.48	68 ER	LY1	5	1.364	1,2,3
99.37	20 CA	KA1	2	3.358	1,2,3	101.48	67 HO	LY3	5	1.364	1,2,3
99.45	31 GA	KA2	5	1.344	1,2,3	101.58	57 LA	LB7	3	2.275	1,2
99.51	56 BA	LY1	3	2.241	1,2,3	101.73	63 EU	LY5	4	1.708	1,2
99.53	20 CA	KA2	2	3.362	1,2,3	101.89	66 DY	LB1	4	1.710	1,2,3
99.53	66 DY	LB3	4	1.681	1,2,3	101.96	58 CE	LB6	3	2.281	1,2,3
99.53	66 DY	LB6	4	1.681	1,2,3	102.02	57 LA	LB9	3	2.282	1,2
99.61	65 TB	LB2	4	1.682	1,2,3	102.08	61 PM	LA1	3	2.283	1,2,3
99.65	73 TA	LB4	5	1.346	1,2,3	102.10	48 CD	LY5	2	3.425	1,2
99.69	70 YB	LA2	4	1.683	1,2,3	102.10	71 LU	LB2	5	1.370	1,2,3
99.95	71 LU	LB7	5	1.349	1,2	102.10	67 HO	LY2	5	1.370	1,2,3
100.05	82 PB	LL	5	1.350	1,2,3	102.14	23 V	KB1	3	2.284	1,2,3
100.13	37 RB	LY5	1	6.754	1,2	102.14	23 V	KB3	3	2.284	1,2

EDOT CRYSTAL, D# 4.404 ANGSTROMS						102.31 TO 104.90					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
102.31	48 CD	LB9	2	3.430	1,2	103.35	29 CU	KB5	5	1.382	2
102.37	38 SR	LA1	1	5.863	1,2,3	103.39	73 TA	LL	4	1.728	1,2,3
102.41	75 RE	LN	5	1.373	1,2,3	103.52	40 ZR	LL	1	6.918	1,2,3
102.49	38 SR	LA2	1	5.869	1,2,3	103.56	70 YB	LB9	5	1.384	1,2
102.52	24 CR	KA1	3	2.290	1,2,3	103.65	64 GD	LB10	4	1.731	1,2
102.52	66 DY	LY4	5	1.374	1,2	103.65	56 BA	LY5	3	2.308	1,2
102.52	72 HF	LB1	5	1.374	1,2,3	103.67	81 TL	LL	5	1.385	1,2,3
102.52	57 LA	LB10	3	2.290	1,2	103.83	58 CE	LB3	3	2.311	1,2,3
102.52	72 HF	LB6	5	1.374	1,2,3	103.88	70 YB	LB5	5	1.387	1,2
102.56	49 IN	LB6	2	3.436	1,2,3	103.90	64 GD	LL	3	2.312	1,2,3
102.60	48 CD	LB10	2	3.437	1,2	103.98	49 IN	LB3	2	3.470	1,2,3
102.64	52 TE	LN	2	3.438	1,2,3	104.15	69 TM	LA2	4	1.737	1,2,3
102.64	61 PM	LA2	3	2.292	1	104.30	70 YB	LB10	5	1.391	1,2
102.68	51 SB	LA1	2	3.439	1,2,3	104.30	76 OS	LA1	5	1.391	1,2,3
102.72	66 DY	LB4	4	1.720	1,2,3	104.41	29 CU	KB1	5	1.392	1,2,3
102.77	19 K	KB5	2	3.441	1,2	104.41	72 HF	LB4	5	1.392	1,2,3
102.77	24 CR	KA2	3	2.294	1,2,3	104.49	65 TB	LB6	4	1.741	1,2,3
102.97	64 GD	LB7	4	1.723	1,2	104.51	29 CU	KB3	5	1.393	1,2
103.06	64 GD	LB9	4	1.724	1	104.73	70 YB	LB7	5	1.395	1,2
103.06	51 SB	LA2	2	3.448	1,2,3	104.75	26 FE	KB5	4	1.744	1,2
103.23	69 TM	LA1	4	1.726	1,2,3	104.75	60 ND	LY4	4	1.744	1,2
103.25	29 CU	KB2	5	1.381	2,3	104.79	46 PD	LY3	2	3.489	1,2
103.31	62 SM	LY1	4	1.727	1,2,3	104.79	46 PD	LY2	2	3.489	1,2,3
103.31	19 K	KB1	2	3.454	1,2,3	104.83	64 GD	LB2	4	1.745	1,2,3
103.33	57 LA	LB2	3	2.303	1,2,3	104.90	74 W	MA1	1	6.993	1,2

EDDT CRYSTAL, DH 4.404 ANGSTROMS						104.92 TO 109.32					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
104.92	65 TB	LB3	4	1.746	1,2,3	107.74	53 I	LL	2	3.557	1,2,3
104.92	37 RB	LB6	1	6.984	1,2,3	107.76	66 DY	LY2	5	1.423	1,2,3
105.05	74 W	MA2	1	6.990	1,2	107.78	62 SM	LY5	4	1.779	1
105.37	71 LU	LB3	5	1.401	1,2,3	107.78	62 SM	LB5	4	1.779	2
105.47	76 OS	LA2	5	1.402	1,2,3	107.87	71 LU	LB1	5	1.424	1,2,3
105.56	49 IN	LB4	2	3.507	1,2,3	107.96	72 HF	LL	4	1.781	1,2,3
105.78	68 ER	LN	4	1.756	1,2,3	107.98	14 SI	KA1	1	7.125	1,2,3
105.86	48 CD	LB2	2	3.514	1,2,3	108.05	14 SI	KA2	1	7.128	1,2,3
105.86	26 FE	KB1	4	1.757	1,2,3	108.05	56 BA	LB9	3	2.376	1,2
105.90	68 ER	LY5	5	1.406	1,2	108.20	65 TB	LY4	5	1.427	1,2
106.12	39 Y	LN	1	7.040	1,2,3	108.23	68 ER	LA1	4	1.784	1,2,3
106.21	55 CS	LY1	3	2.348	1,2,3	108.25	57 LA	LB6	3	2.379	1,2,3
106.25	47 AG	LY1	2	3.523	1,2,3	108.31	65 TB	LB4	4	1.785	1,2,3
106.27	58 CE	LB4	3	2.349	1,2,3	108.31	60 ND	LA2	3	2.380	1,3
106.73	58 CE	LB1	3	2.356	1,2,3	108.58	63 EU	LB7	4	1.788	1,2
106.88	70 YB	LB2	5	1.415	1,2,3	108.67	27 CO	KA1	4	1.789	1,2,3
106.90	37 RB	LB1	1	7.076	1,2,3	108.78	56 BA	LB10	3	2.387	1,2
107.10	66 DY	LY3	5	1.417	1,2,3	108.87	75 RE	LA1	5	1.433	1,2,3
107.10	67 HO	LY1	5	1.417	1,2,3	108.94	63 EU	LB9	4	1.792	1,2
107.32	71 LU	LB6	5	1.419	1,2,3	109.03	27 CO	KA2	4	1.793	1,2,3
107.52	65 TB	LB1	4	1.776	1,2,3	109.05	53 I	LY4	3	2.391	1,2
107.54	74 W	LN	5	1.421	1,2,3	109.10	30 ZN	KA1	5	1.435	1,2,3
107.65	60 ND	LA1	3	2.370	1,2,3	109.30	60 ND	LY3	4	1.796	1,2,3
107.65	49 IN	LB1	2	3.555	1,2,3	109.30	68 ER	LA2	4	1.796	1,2,3
107.65	80 HG	LL	5	1.422	1,2,3	109.32	63 EU	LL	3	2.395	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS						109.55 TO 112.37					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
109.55	3D ZN	KA2	5	1.439	1,2,3	111.72	48 CD	LB3	2	3.645	1,2,3
109.66	71 LU	LB4	5	1.440	1,2,3	111.95	79 AU	LL	5	1.460	1,2,3
109.66	50 SN	LA1	2	3.600	1,2,3	112.04	67 HO	LN	4	1.826	1,2,3
109.66	63 EU	LB10	4	1.800	1,2	112.18	67 HO	LY5	5	1.462	1,2
109.75	60 ND	LY2	4	1.801	1,2,3	112.30	69 TM	LB2	5	1.463	1,2,3
109.77	69 TM	LB10	5	1.441	1	112.37	37 RB	LA1	1	7.318	1,2,3
109.88	47 AG	LB9	2	3.605	1,2						
109.93	56 BA	LB2	3	2.404	1,2,3						
110.02	51 SB	LN	2	3.608	1,2,3						
110.07	50 SN	LA2	2	3.609	1,2,3						
110.11	75 RE	LA2	5	1.444	1,2,3						
110.16	47 AG	LB10	2	3.611	1,2						
110.27	60 ND	LN	3	2.409	1,2,3						
110.29	48 CD	LB6	2	3.614	1,2,3						
110.29	64 GD	LB6	4	1.807	1,2,3						
110.34	57 LA	LB3	3	2.410	1,2,3						
110.38	47 AG	LY5	2	3.616	1,2						
110.75	63 EU	LB2	4	1.812	1,2,3						
110.82	55 CS	LY5	3	2.417	1,2						
110.82	73 TA	MA1	1	7.251	1,2						
110.98	73 TA	MA2	1	7.256	1,2						
111.02	64 GD	LB3	4	1.815	1,2,3						
111.02	70 YB	LB3	5	1.452	1,2,3						
111.12	61 PM	LY1	4	1.816	1						
111.39	59 PR	LY4	4	1.819	1,2						

EDDT CRYSTAL, D# 4.404 ANGSTROMS							112.53 TO 116.63						
ANGLE	ELEM	LINE	N	LAMBDA	REF		ANGLE	ELEM	LINE	N	LAMBDA	REF	
112.53	37 RB	LA2	1	7.325	1,2,3		114.79	60 ND	LY6	4	1.855	2	
112.65	70 YB	LB6	5	1.466	1,2,3		114.89	62 SM	LB7	4	1.856	1,2	
112.91	53 I	LY2	3	2.447	1,2,3		114.89	67 HO	LA2	4	1.856	1,2,3	
112.91	53 I	LY3	3	2.447	1,2		114.91	64 GD	LY4	5	1.485	1,2	
112.98	71 LU	LL	4	1.836	1,2,3		114.91	68 ER	LB9	5	1.485	1,2	
113.05	57 LA	LB4	3	2.449	1,2,3		115.13	52 TE	LL	2	3.717	1,2,3	
113.24	73 TA	LN	5	1.471	1,2,3		115.13	55 CS	LB9	3	2.478	1,2	
113.24	65 TB	LY3	5	1.471	1,2,3		115.15	74 W	LA2	5	1.487	1,2,3	
113.26	39 Y	LL	1	7.356	1,2,3		115.37	62 SM	LB9	4	1.861	1,2	
113.45	48 CD	LB4	2	3.682	1,2,3		115.40	28 NI	KB5	5	1.489	1,2	
113.48	66 DY	LY1	5	1.473	1,2,3		115.40	28 NI	KB2	5	1.489	1,2,3	
113.59	45 RH	LY2	2	3.685	1,2,3		115.42	56 BA	LB6	3	2.482	1,2,3	
113.59	45 RH	LY3	2	3.685	1,2		115.42	62 SM	LL	3	2.482	1,2,3	
113.69	57 LA	LB1	3	2.458	1,2,3		115.47	46 PD	LY1	2	3.724	1,2,3	
113.83	67 HO	LA1	4	1.845	1,2,3		115.64	70 YB	LB4	5	1.491	1,2,3	
113.83	74 W	LA1	5	1.476	1,2,3		115.64	55 CS	LB7	3	2.485	1,2	
113.83	70 YB	LB1	5	1.476	1,2,3		116.01	68 ER	LB7	5	1.494	1,2	
113.93	64 GD	LB1	4	1.846	1,2,3		116.01	68 ER	LB10	5	1.494	1,2	
113.95	65 TB	LY2	5	1.477	1,2,3		116.16	62 SM	LB10	4	1.869	1,2	
113.98	54 XE	LY1	3	2.462	1		116.16	55 CS	LB10	3	2.492	1,2	
114.05	59 PR	LA1	3	2.463	1,2,3		116.16	48 CD	LB1	2	3.738	1,2,3	
114.07	71 LU	LN	5	1.478	1,2		116.30	19 K	KA1	2	3.741	1,2,3	
114.45	47 AG	LB2	2	3.703	1,2,3		116.50	19 K	KA2	2	3.745	1,2,3	
114.60	64 GD	LB4	4	1.853	1,2,3		116.60	22 TI	KB5	3	2.498	1,2	
114.77	59 PR	LA2	3	2.473	1,2,3		116.63	78 PT	LL	5	1.499	1,2,3	

EDDT CRYSTAL, D# 4.404 ANGSTROMS						116.65 TO 121.93					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
116.65	59 PR	LY3	4	1.874	1,2,3	118.71	50 SN	LN	2	3.789	1,2,3
116.65	63 EU	LB6	4	1.874	1,2,3	118.87	46 PD	LB9	2	3.792	1,2
116.75	28 NI	KB1	5	1.500	1,2,3	118.97	25 MN	KB5	4	1.897	1,2
116.97	23 V	KA1	3	2.503	1,2,3	118.97	66 DY	LN	4	1.897	1,2,3
117.05	60 ND	LY1	4	1.878	1,2,3	119.02	66 DY	LY5	5	1.518	1,2
117.15	59 PR	LY2	4	1.879	1,2,3	119.17	58 CE	LY4	4	1.899	1,2
117.17	38 SR	LN	1	7.517	1,2,3	119.22	46 PD	LB10	2	3.799	1,2
117.27	23 V	KA2	3	2.507	1,2,3	119.53	73 TA	LA1	5	1.522	1,2,3
117.37	69 TM	LB3	5	1.505	1,2,3	119.66	72 HF	LN	5	1.523	1,2,3
117.45	62 SM	LB2	4	1.882	1,2,3	119.69	47 AG	LB6	2	3.808	1,2,3
117.57	55 CS	LB2	3	2.511	1,2,3	120.21	66 DY	LA1	4	1.909	1,2,3
117.57	52 TE	LY4	3	2.511	1,2	120.31	25 MN	KB1	4	1.910	1,2,3
117.65	59 PR	LN	3	2.512	1,2,3	120.42	46 PD	LY5	2	3.822	1,2
117.72	72 HF	MA1	1	7.539	1,2	120.44	64 GD	LY3	5	1.529	1,2,3
117.80	22 TI	KB1	3	2.514	1,2,3	120.58	69 TM	LB1	5	1.530	1,2,3
117.80	22 TI	KB3	3	2.514	1,2	120.58	65 TB	LY1	5	1.530	1,2,3
117.85	49 IN	LA1	2	3.772	1,3	120.97	56 BA	LB4	3	2.555	1,2,3
117.90	72 HF	MA2	1	7.546	1,2	120.97	73 TA	LA2	5	1.533	1,2,3
117.95	56 BA	LB3	3	2.516	1,2,3	121.00	47 AG	LB3	2	3.833	1,2,3
117.95	63 EU	LB3	4	1.887	1,2,3	121.10	64 GD	LY2	5	1.534	1,2,3
118.31	49 IN	LA2	2	3.78	1,2,3	121.37	63 EU	LB1	4	1.920	1,2,3
118.46	36 KR	LB1	1	7.568	1	121.37	66 DY	LA2	4	1.920	1,2,3
118.51	68 ER	LB2	5	1.514	1,2,3	121.45	58 CE	LA1	3	2.561	1,2,3
118.64	69 TM	LB6	5	1.515	1,2,3	121.93	52 TE	LY3	3	2.567	1,2
118.66	70 YB	LL	4	1.894	1,2,3	121.93	52 TE	LY2	3	2.567	1,3

EDOT CRYSTAL, D# 4.404 ANGSTROMS						121.93 TO 128.25					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
121.93	56 BA	LB1	3	2.567	1,2,3	125.20	58 CE	LY3	4	1.955	1,2,3
122.01	63 EU	LB4	4	1.926	1,2,3	125.20	69 TM	LL	4	1.955	1,2,3
122.04	29 CU	KA1	5	1.541	1,2,3	125.43	61 PM	LB2	4	1.957	1
122.04	77 IR	LL	5	1.541	1,2,3	125.63	68 ER	LB6	5	1.567	1,2,3
122.17	58 CE	LA2	3	2.570	1,2,3	125.63	67 HO	LB2	5	1.567	1,2,3
122.44	63 EU	LY4	5	1.544	1,2	125.66	38 SR	LL	1	7.836	1,2,3
122.44	69 TM	LB4	5	1.544	1,2,3	125.77	58 CE	LY2	4	1.960	1,2,3
122.44	29 CU	KA2	5	1.544	1,2,3	125.77	71 LU	MA1	1	7.840	1,2
122.98	60 ND	LY5	4	1.935	1,2	125.89	59 PR	LY1	4	1.961	1,2,3
122.98	47 AG	LB4	2	3.870	1,2,3	125.91	72 HF	LA1	5	1.569	1,2,3
123.09	26 FE	KA1	4	1.936	1,2,3	126.00	92 U	MA2	2	3.924	1,2
123.12	67 HO	LB10	5	1.549	1	126.00	62 SM	LB3	4	1.962	1,2,3
123.15	53 I	LY1	3	2.582	1,2,3	126.34	58 CE	LN	3	2.620	1,2,3
123.53	26 FE	KA2	4	1.940	1,2,3	126.58	47 AG	LB1	2	3.934	1,2,3
123.75	18 A	KB1	2	3.884	1	126.87	54 XE	LB2	3	2.626	1
123.97	51 SB	LL	2	3.888	1,2,3	127.04	55 CS	LB3	3	2.628	1,2,3
124.05	55 CS	LB6	3	2.593	1,2,3	127.07	65 TB	LB5	5	1.577	2
124.19	62 SM	LB6	4	1.946	1,2,3	127.07	65 TB	LY5	5	1.577	1
124.47	44 RU	LY2	2	3.897	1,2,3	127.10	45 RH	LY1	2	3.943	1,2,3
124.47	44 RU	LY3	2	3.897	1,2	127.27	65 TB	LN	4	1.973	1
124.78	68 ER	LB3	5	1.561	1,2,3	127.51	65 TB	LA1	4	1.975	1,2,3
124.95	36 KR	LA1	1	7.811	1	127.51	72 HF	LA2	5	1.580	1,2,3
124.95	36 KR	LA2	1	7.811	1	127.86	48 CD	LA1	2	3.956	1,2,3
125.15	46 PD	LB2	2	3.909	1,2,3	128.01	51 SB	LY4	3	2.639	1,2
125.20	92 U	MA1	2	3.910	1,2	128.25	76 OS	LL	5	1.585	1,2,3

EDOT CRYSTAL, D# 4.404 ANGSTROMS						128.40 TO 134.95					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
128.40	48 CD	LA2	2	3.965	1,2,3	131.95	27 CO	KB5	5	1.609	1,2
128.46	57 LA	LY4	4	1.983	1,2	132.08	55 CS	LB1	3	2.683	1,2,3
128.55	68 ER	LB1	5	1.587	1,2,3	132.56	60 NO	LB9	4	2.016	1,2
128.82	65 TB	LA2	4	1.986	1,2,3	132.69	46 PD	LB3	2	4.034	1,2,3
129.15	63 EU	LY3	5	1.591	1,2,3	132.76	91 PA	MA2	2	4.035	1,2
129.30	64 GD	LY1	5	1.592	1,2,3	132.95	68 ER	LL	4	2.019	1,2,3
129.49	49 IN	LN	2	3.983	1,2,3	133.08	59 PR	LY5	4	2.020	1,2
129.64	53 I	LY5	3	2.657	1,2	133.25	51 SB	LY3	3	2.695	1,2
129.95	13 AL	KB1	1	7.981	1,2,3	133.25	51 SB	LY2	3	2.695	1,2,3
130.07	63 EU	LY2	5	1.597	1,2,3	133.41	45 RH	LY5	2	4.045	1,2
130.28	62 SM	LB1	4	1.998	1,2,3	133.48	60 NO	LB10	4	2.023	1,2
130.38	66 DY	LB7	5	1.599	1,2	133.57	71 LU	LA1	5	1.619	1,2,3
130.38	57 LA	LA1	3	2.665	1,2,3	133.57	67 HO	LB3	5	1.619	1,2,3
130.47	55 CS	LB4	3	2.666	1,2,3	133.91	27 CO	KB1	5	1.621	1,2,3
130.53	66 DY	LB9	5	1.600	1	134.07	67 HO	LB6	5	1.622	1,2,3
130.53	62 SM	LB4	4	2.000	1,2,3	134.24	66 DY	LB2	5	1.623	1,2,3
130.69	68 ER	LB4	5	1.601	1,2,3	134.58	35 BR	LB1	1	8.125	2,3
131.22	57 LA	LA2	3	2.674	1,2,3	134.95	52 TE	LY1	3	2.712	1,2,3
131.41	60 NO	LL	3	2.676	1,2,3						
131.47	62 SM	LY4	5	1.606	1,2						
131.54	46 PD	LB6	2	4.016	1,2,3						
131.63	66 DY	LB10	5	1.607	1						
131.66	60 NO	LB7	4	2.006	1,2						
131.82	37 RB	LN	1	8.041	1,2,3						
131.92	91 PA	MA1	2	4.022	1,2						

EDDT CRYSTAL, D# 4.404 ANGSTROMS						135.02 TO 142.97					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
135.02	70 YB	MA1	1	8.138	1,2	139.97	90 TH	MA1	2	4.138	1,2
135.05	53 I	LB9	3	2.713	1,2	140.27	24 CR	KB5	4	2.071	1,2
135.15	46 PD	LB4	2	4.071	1,2,3	140.50	28 NI	KA1	5	1.658	1,2,3
135.15	50 SN	LL	2	4.071	1,2,3	140.50	63 EU	LY1	5	1.658	1,2,3
135.22	60 ND	LB2	4	2.036	1,2,3	140.58	21 SC	KB5	3	2.764	1,2
135.43	71 LU	LA2	5	1.630	1,2,3	140.58	46 PD	LB1	2	4.146	1,2,3
135.43	75 RE	LL	5	1.630	1,2,3	140.70	65 TB	LB7	5	1.659	1,2
135.56	70 YB	MA2	1	8.154	1,2	140.70	62 SM	LY2	5	1.659	1,2,3
135.77	53 I	LB10	3	2.720	1,2	140.70	67 HO	LB4	5	1.659	1,2,3
135.91	57 LA	LY3	4	2.041	1,2,3	140.89	56 BA	LY4	4	2.075	1,2
136.47	70 YB	LN	5	1.636	1,2,3	140.97	90 TH	MA2	2	4.151	1,2
136.61	64 GD	LA1	4	2.046	1,2,3	141.20	47 AG	LA1	2	4.154	1,2,3
136.61	57 LA	LY2	4	2.046	1,2,3	141.28	28 NI	KA2	5	1.662	1,2,3
136.82	53 I	LB7	3	2.730	1,2	141.83	61 PM	LB1	4	2.081	1,2,3
136.89	58 CE	LY1	4	2.048	1,2,3	141.88	56 BA	LA1	3	2.775	1,2,3
137.03	64 GD	LN	4	2.049	1,2,3	141.91	47 AG	LA2	2	4.163	1,2,3
137.35	64 GD	LY5	5	1.641	1	142.11	50 SN	LY4	3	2.777	1,2
137.89	57 LA	LN	3	2.740	1,2,3	142.28	65 TB	LB10	5	1.667	1,2
138.18	64 GD	LA2	4	2.057	1,2,3	142.40	13 AL	KA1	1	8.338	1,2,3
138.44	67 HO	LB1	5	1.647	1,2,3	142.48	24 CR	KB1	4	2.085	1,2,3
138.77	22 TI	KA1	3	2.748	1,2,3	142.48	21 SC	KB1	3	2.780	1,2,3
138.99	53 I	LB2	3	2.750	1,2,3	142.48	24 CR	KB3	4	2.085	1,2
139.22	22 TI	KA2	3	2.752	1,2,3	142.48	13 AL	KA2	1	8.340	1,2,3
139.44	45 RH	LB2	2	4.131	1,2,3	142.64	67 HO	LL	4	2.086	1,2,3
139.93	62 SM	LY3	5	1.655	1,2,3	142.97	59 PR	LL	3	2.784	1,2,3

EDDT CRYSTAL, D# 4.404 ANGSTROMS						143.09 TO 149.81					
ANGLE	ELEM	LINE	N	LAMBDA	REF	ANGLE	ELEM	LINE	N	LAMBDA	REF
143.09	56 BA	LA2	3	2.785	1,2,3	148.44	59 PR	LB2	4	2.119	1,2,3
143.29	70 YB	LA1	5	1.672	1,2,3	148.63	69 TM	LN	5	1.696	1,2,3
143.42	37 RB	LL	1	3.363	1,2,3	148.82	45 RH	LB6	2	4.242	1,2,3
143.46	59 PR	LB7	4	2.091	1,2	148.82	63 EU	LA1	4	2.121	1,2,3
143.46	44 RU	LY1	2	4.182	1,2,3	149.56	50 SN	LY2	3	2.833	1,3
143.71	52 TE	LY5	3	2.790	1,2	149.81	60 ND	LB3	4	2.126	1,2,3
143.92	35 BR	LA1	1	8.375	1,2,3	149.81	45 RH	LB3	2	4.252	1,2,3
143.92	35 BR	LA2	1	8.375	1,2						
144.30	18 A	KA1	2	4.192	1,2,3						
144.38	48 CD	LN	2	4.193	1,3						
144.55	18 A	KA2	2	4.195	1,2,3						
144.55	74 W	LL	5	1.678	1,2,3						
144.98	59 PR	LB9	4	2.100	1,2						
145.20	66 DY	LB6	5	1.681	1,2,3						
145.20	66 DY	LB3	5	1.681	1,2,3						
145.33	25 MN	KA1	4	2.102	1,2,3						
145.38	54 KE	LB1	3	2.803	1						
145.42	65 TB	LB2	5	1.682	1,2,3						
145.64	70 YB	LA2	5	1.683	1,2,3						
145.68	60 ND	LB6	4	2.104	1,2,3						
146.04	25 MN	KA2	4	2.106	1,2,3						
146.22	59 PR	LB10	4	2.107	1,2						
146.76	58 CE	LY5	4	2.110	1,2						
147.68	69 TM	MA2	1	8.460	1,2						
147.68	69 TM	MA1	1	8.460	1,2						