AM-77-041

Holdenite, a novel cubic close-packed structure

Paul B. Moore and Takaharu Araki

Table 2. Observed and calculated structure factors for holdenite

American Mineralogist, 62, pages 513-521

HOLDENITE

SHEET NO. 1 PART 1

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	F
0	6	0	88.2	107.0	10	8	0	36.1	30.4	2	47	1	41.5	11.9	8	5	1	97.6	95.
0	8	0	119.1	140.8	10	10	0	257.1	259.6	2	49	1	307.8	293.7	8	7	1	185.4	186.
0	10	0	555.0	609.9	10	12	0	50.1	39.9	3	1	1	421.5	415.3	8	9	1	81.1	83.
0	12	0	129.8	147.5	10	14	0	102.9	99.1	3	3	1	571.9	523.7	8	11	1	36.1	33.
0	14	0	150.0	148.3	10	16	0	79.7	77.4	3	5	1	75.3	77.4	8	13	1	188.3	185.
0	16	0	186.2	197.1	10	18	0	108.4	111.0	3	7	1	492.7	480.4	8	15	1	26.7	24.
0	18	0	293.1	307.8	10	20	0	86.8	89.6	3	9	1	253.8	248.9	8	17	1	30.5	24.
0	20	0	1893.3	1938.1	10	22	0	174.9	174.8	3	11	1	102.9	102.8	8	19	1	94.9	88.
0	22	0	258.0	273.3	10	24	0	73.2	72.0	3	13	1	309.2	320.3	8	21	1	4.1	10.
0	24	0	3.6	7.2	10	26	0	46.0	45.2	3	15	1	9.7	19.1	8	23	1	4.0	6.
0	26	0	196.7	200.2	10	28	0	61.5	57.6	3	17	1	335.1	357.3	8	25	1	97.1	100.
0	28	0	26.7	4.4	10	30	0	119.3	116.4	3	19	1	311.2	334.8	8	27	1	86.9	90.
0	30	0	347.7	366.8	10	32	0	63.1	56.7	3	21	1	139.4	146.3	8	29	1	71.2	73.
0	32	0	29.4	18.5	10	34	0	88.6	92.1	3	23	1	280.2	303.7	8	31	1	20.1	10.
0	34	0	41.0	38.8	10	36	0	4.2	28.7	3	25	1	85.5	91.6	8	33	1	101.2	99.
0	36	0	126.3	125.7	10	38	0	45.2	51.7	3	27	1	264.1	279.4	8	35	1	26.2	11.
0	38	0	274.2	271.4	10	40	0	19.7	25.7	3	29	1	219.4	228.8	8	37	1	36.6	38.
0	40	0	717.2	719.3	10	42	0	111.7	109.4	3	31	1	22.8	26.1	8	39	1	55.3	49.
0	42	0	181.0	175.5	12	0	0	484.2	477.7	3	33	1	119.3	122.9	8	41	1	31.8	18.
0	44	0	41.2	38.2	12	2	0	131.8	133.1	3	35	1	43.5	44.9	8	43	1	22.5	13.
0	46	0	166.4	148.6	12	4	0	140.4	142.6	3	37	1	147.3	149.0	8	45	1	73.1	63.
0	48	0	51.6	44.0	12	6	0	21.9	13.8	3	39	1	169.3	163.2	9	1	1	114.0	113.
0	50	0	190.5	182.1	12	8	0	139.3	142.4	3	41	1	27.6	15.1	9	3	1	81.5	78.
2	0	0	120.8	122.1	12	10	0	69.2	72.2	3	43	1	113.9	115.2	9	5	1	138.7	136.
2	2	0	67.1	55.8	12	12	0	63.2	65.4	3	45	1	68.9	61.1	9	7	1	101.4	102.
2	4	0	62.1	54.6	12	14	0	23.9	16.8	3	47	1	119.2	115.3	9	9	1	63.8	63.
2	6	0	49.7	47.9	12	16	0	67.7	68.2	3	49	1	147.4	139.8	9	11	1	30.2	27.
2	8	0	108.6	108.7	12	18	0	125.6	129.6	4	1	1	29.9	36.1	9	13	1	118.5	119.
2	10	0	381.2	381.4	12	20	0	374.2	376.5	4	3	1	27.7	30.4	9	15	1	110.1	111.
2	12	0	147.4	148.2	12	22	0	62.4	59.7	4	5	1	10.9	24.7	9	17	1	52.4	51.
2	14	0	67.9	75.4	12	24	0	134.1	134.5	4	7	1	175.2	169.4	9	19	1	114.7	114.
2	16	0	85.4	82.7	12	26	0	6.7	15.8	4	9	1	84.5	83.6	9	21	1	30.3	36.
2	18	0	58.5	59.4	12	28	0	152.1	152.8	4	11	1	9.7	27.8	9	23	1	86.8	85.
2	20	0	71.0	76.3	12	30	0	42.8	28.4	4	13	1	144.9	152.9	9	25	1	80.9	81.
2	22	0	44.9	43.6	12	32	0	14.5	21.1	4	15	1	3.8	16.1	9	27	1	61.8	68.
2	24	0	11.9	14.8	12	34	0	36.9	28.8	4	17	1	28.1	39.3	9	29	1	43.9	46.
2	26	0	12.1	3.9	12	36	0	14.8	10.4	4	19	1	36.2	39.2	9	31	1	4.2	9.
2	28	0	25.3	22.8	12	38	0	72.4	76.6	4	21	1	19.0	9.4	9	33	1	96.4	94.
2	30	0	158.5	165.8	14	0	0	262.7	272.9	4	23	1	16.5	15.2	9	35	1	45.0	48.
2	32	0	94.4	95.0	14	2	0	147.9	141.5	4	25	1	47.1	47.6	9	37	1	26.8	32.
2	34	0	58.8	68.9	14	4	0	215.8	212.6	4	27	1	67.7	72.9	9	39	1	74.0	67.
2	36	0	63.9	64.4	14	6	0	52.5	46.0	4	29	1	56.0	61.8	9	41	1	9.2	1.
2	38	0	48.4	49.3	14	8	0	147.7	144.3	4	31	1	24.0	12.1	9	43	1	58.5	61.

2	38	0	48.4	49.3	14	8	0	147.7	144.3	4	31	1	24.0	12.1	9	43	1	58.5	61.3
2	40	0	18.7	24.9	14	10	0	81.1	74.5	4	33	1	69.6	67.6	10	1	1	51.2	48.8
2	42	0	27.7	23.2	14	12	0	114.7	115.8	4	35	1	10.5	16.9	10	3	1	128.3	128.4
2	44	0	9.9	5.1	14	14	0	23.7	29.8	4	37	1	33.2	31.9	10	5	1	65.9	62.6
2	46	0	14.8	10.9	14	16	0	213.9	212.0	4	39	1	18.0	18.3	10	7	1	151.3	150.4
2	48	0	4.3	8.5	14	18	0	43.1	49.0	4	41	1	26.3	5.3	10	9	1	530.7	529.9
2	50	0	65.6	56.5	14	20	0	193.5	197.8	4	43	1	30.2	11.2	10	11	1	422.1	419.2
4	0	0	1444.3	1280.9	14	22	0	172.1	170.6	4	45	1	39.6	32.0	10	13	1	180.5	181.7
4	2	0	323.3	311.5	14	24	0	125.8	125.0	4	47	1	15.0	20.4	10	15	1	18.6	19.3
4	4	0	270.1	249.5	14	26	0	54.7	56.0	4	49	1	35.8	32.1	10	17	1	137.8	140.8
4	6	0	246.2	229.8	14	28	0	107.3	105.3	5	1	1	141.7	134.0	10	19	1	33.1	32.2
4	8	0	256.4	249.7	14	30	0	73.8	76.8	5	3	1	440.9	423.0	10	21	1	66.0	67.7
4	10	0	578.1	540.8	14	32	0	57.6	61.2	5	5	1	130.2	126.3	10	23	1	85.3	81.3
4	12	0	9.9	2.6	14	34	0	6.5	29.1	5	7	1	487.8	461.5	10	25	1	72.9	75.7
4	14	0	149.4	156.7	16	0	0	613.6	599.8	5	9	1	210.6	208.5	10	27	1	48.7	49.6
4	16	0	55.6	60.9	16	2	0	32.9	36.0	5	11	1	80.0	84.1	10	29	1	382.2	379.1
4	18	0	264.1	282.1	16	4	0	24.8	33.8	5	13	1	350.5	353.4	10	31	1	198.7	191.7
4	20	0	803.5	841.2	16	6	0	133.0	124.6	5	15	1	91.5	98.7	10	33	1	114.5	118.9
4	22	0	82.9	87.7	16	8	0	62.9	72.5	5	17	1	314.9	323.8	10	35	1	4.3	2.7
4	24	0	181.5	193.1	16	10	0	211.4	199.6	5	19	1	170.0	166.7	10	37	1	113.3	107.2
4	26	0	120.0	127.4	16	12	0	98.7	97.8	5	21	1	24.5	18.5	10	39	1	9.7	24.0
4	28	0	233.1	242.8	16	14	0	60.6	64.2	5	23	1	233.1	243.2	10	41	1	45.6	54.9
4	30	0	39.7	33.9	16	16	0	58.8	59.9	5	25	1	107.1	111.9	11	1	1	321.0	316.9
4	32	0	38.9	43.5	16	18	0	37.0	45.2	5	27	1	252.2	265.4	11	3	1	250.6	247.9
4	34	0	12.0	26.1	16	20	0	488.6	480.8	5	29	1	166.1	172.0	11	5	1	31.9	11.1
4	36	0	17.3	9.6	16	22	0	78.1	80.3	5	31	1	3.9	2.8	11	7	1	198.9	198.0
4	38	0	156.2	154.3	16	24	0	4.4	8.6	5	33	1	144.8	149.0	11	9	1	193.2	190.1
4	40	0	376.3	376.0	16	26	0	147.0	144.1	5	35	1	75.3	77.9	11	11	1	116.7	114.1
4	42	0	24.8	16.9	18	0	0	138.4	145.6	5	37	1	140.5	142.9	11	13	1	135.7	133.3
4	44	0	81.7	72.8	18	2	0	125.6	115.2	5	39	1	106.1	97.8	11	15	1	4.2	25.7
4	46	0	45.9	41.2	18	4	0	83.8	86.2	5	41	1	25.5	27.8	11	17	1	191.0	189.8
4	48	0	166.1	153.3	18	6	0	58.0	44.8	5	43	1	91.5	91.8	11	19	1	290.2	290.4
6	0	0	393.8	373.9	18	8	0	30.0	27.5	5	45	1	78.8	72.0	11	21	1	170.2	170.6
6	2	0	185.1	176.4	18	10	0	101.3	103.5	5	47	1	114.6	111.7	11	23	1	173.9	176.5
6	4	0	278.8	268.8	18	12	0	18.1	13.7	6	1	1	4.3	23.6	11	25	1	23.5	23.6
6	6	0	55.8	52.2	18	14	0	50.0	56.0	6	3	1	105.1	99.8	11	27	1	151.7	147.6
6	8	0	230.7	223.6	18	16	0	78.3	74.2	6	5	1	110.0	106.7	11	29	1	191.2	186.3
6	10	0	178.9	178.8	1	5	1	171.2	198.2	6	7	1	235.1	224.0	11	31	1	47.0	44.7
6	12	0	186.0	191.7	1	7	1	170.0	185.1	6	9	1	802.9	758.8	11	33	1	52.4	50.9
6	14	0	3.9	7.4	1	9	1	79.0	91.2	6	11	1	594.0	585.4	11	35	1	4.3	4.0
6	16	0	255.7	259.0	1	11	1	37.0	45.8	6	13	1	248.1	249.2	11	37	1	94.3	93.6
6	18	0	40.1	43.6	1	13	1	138.1	154.9	6	15	1	145.1	149.0	11	39	1	173.9	166.5
6	20	0	221.9	219.8	1	15	1	82.0	93.9	6	17	1	157.0	158.4	12	1	1	33.2	40.3
6	22	0	171.1	172.8	1	17	1	83.5	98.2	6	19	1	71.2	25.4	12	3	1	46.9	40.1
6	24	0	136.3	134.8	1	19	1	51.7	52.9	6	21	1	63.8	70.3	12	5	1	45.7	43.1
6	26	0	58.0	58.9	1	21	1	42.5	44.2	6	23	1	39.8	47.6	12	7	1	216.7	215.1
6	28	0	116.4	122.9	1	23	1	170.6	190.6	6	25	1	17.5	10.2	12	9	1	123.4	120.5
6	30	0	122.3	126.0	1	25	1	97.8	105.1	6	27	1	73.1	76.0	12	11	1	53.4	51.1
6	32	0	86.4	98.7	1	27	1	111.0	122.5	6	29	1	479.4	494.8	12	13	1	212.5	208.6
6	34	0	13.2	3.8	1	29	1	37.0	26.5	6	31	1	227.9	235.3	12	15	1	16.3	14.6
6	36	0	153.7	156.6	1	31	1	22.9	28.7	6	33	1	131.3	137.5	12	17	1	60.2	58.6
6	38	0	29.8	23.7	1	33	1	102.4	108.7	6	35	1	77.5	82.3	12	19	1	48.4	49.1

6	38	0	29.8	23.7	1	33	1	102.4	108.7	6	35	1	77.5	82.3	12	19	1	48.4	48.1
6	40	0	70.6	69.4	1	35	1	28.3	35.9	6	37	1	132.6	132.8	12	21	1	12.4	6.3
6	42	0	102.6	99.2	1	37	1	47.2	54.4	6	39	1	20.6	13.2	12	23	1	20.2	25.0
6	44	0	48.7	36.6	1	39	1	31.9	35.0	6	41	1	68.0	70.5	12	25	1	72.0	75.1
6	46	0	53.6	47.1	1	41	1	38.8	29.5	6	43	1	28.3	28.7	12	27	1	120.0	118.7
8	0	0	1988.6	1819.5	1	43	1	107.0	108.8	6	45	1	40.6	27.0	12	29	1	112.3	113.2
8	2	0	60.0	48.7	1	45	1	31.3	29.6	6	47	1	21.9	3.9	12	31	1	17.0	14.4
8	4	0	82.0	81.2	1	47	1	68.4	68.4	7	1	1	205.3	199.9	12	33	1	126.2	118.8
8	6	0	119.0	115.5	1	49	1	13.6	11.8	7	3	1	156.3	154.3	12	35	1	38.5	32.7
8	8	0	102.7	108.9	2	1	1	7.2	21.5	7	5	1	86.9	61.1	12	37	1	62.3	58.6
8	10	0	448.4	427.1	2	3	1	93.6	101.3	7	7	1	78.3	80.9	13	1	1	27.5	13.7
8	12	0	120.9	120.2	2	5	1	15.7	8.3	7	9	1	9.8	21.7	13	3	1	156.8	154.9
8	14	0	20.1	10.0	2	7	1	290.4	306.4	7	11	1	4.1	14.4	13	5	1	67.8	63.9
8	16	0	143.4	135.6	2	9	1	1045.6	1051.3	7	13	1	56.7	58.9	13	7	1	192.2	187.8
8	18	0	168.4	169.7	2	11	1	768.9	796.9	7	15	1	7.9	11.3	13	9	1	94.2	98.6
8	20	0	1280.8	1226.5	2	13	1	317.3	340.5	7	17	1	67.4	72.5	13	11	1	39.4	46.1
8	22	0	184.4	184.0	2	15	1	119.6	130.6	7	19	1	102.7	104.2	13	13	1	171.3	165.2
8	24	0	15.0	6.8	2	17	1	151.4	164.9	7	21	1	148.4	150.0	13	15	1	63.6	66.1
8	26	0	184.2	185.0	2	19	1	19.5	20.7	7	23	1	159.1	161.7	13	17	1	145.2	144.0
8	28	0	4.0	6.7	2	21	1	95.5	104.6	7	25	1	45.3	49.2	13	19	1	44.9	47.3
8	30	0	269.1	273.2	2	23	1	37.0	44.7	7	27	1	74.1	74.1	13	21	1	25.5	23.1
8	32	0	43.3	44.3	2	25	1	58.2	58.5	7	29	1	17.9	27.3	13	23	1	93.6	91.1
8	34	0	28.6	7.8	2	27	1	79.9	84.3	7	31	1	59.2	56.7	13	25	1	46.0	55.8
8	36	0	96.9	100.2	2	29	1	579.6	612.5	7	33	1	48.4	52.8	13	27	1	129.3	127.9
8	38	0	207.8	196.9	2	31	1	277.4	285.9	7	35	1	15.1	7.6	13	29	1	94.0	90.9
8	40	0	556.0	548.0	2	33	1	164.6	171.6	7	37	1	30.6	36.6	13	31	1	17.9	5.9
8	42	0	141.6	135.2	2	35	1	75.8	76.6	7	39	1	20.0	33.4	13	33	1	91.0	90.8
8	44	0	39.3	25.6	2	37	1	139.6	136.7	7	41	1	67.8	72.3	13	35	1	59.7	55.7
10	0	0	140.7	139.8	2	39	1	14.0	19.6	7	43	1	106.4	101.0	14	1	1	5.3	9.6
10	2	0	194.5	184.9	2	41	1	91.4	93.2	7	45	1	16.0	8.3	14	3	1	110.1	106.8
10	4	0	110.8	110.5	2	43	1	44.4	32.6	8	1	1	79.9	78.9	14	5	1	21.9	29.4
10	6	0	80.2	79.8	2	45	1	56.7	53.9	8	3	1	4.1	5.6	14	7	1	85.4	79.8

HOLDENITE

SHEET NO. 1 PART 2

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
14	9	1	280.1	280.2	2	36	2	103.3	101.9	7	40	2	39.8	37.0					
14	11	1	228.5	228.2	2	38	2	86.7	78.7	7	42	2	64.5	67.2					
14	13	1	93.3	91.5	2	40	2	36.9	43.9	7	44	2	113.8	110.6					
14	15	1	40.1	37.4	2	42	2	23.6	33.9	7	46	2	46.2	52.8					
14	17	1	118.5	120.8	2	44	2	8.8	14.3	8	0	2	254.1	236.5					
14	19	1	31.7	11.2	2	46	2	51.6	39.3	8	2	2	135.9	132.1					
14	21	1	27.3	16.9	2	48	2	40.9	37.4	8	4	2	97.1	93.9					
14	23	1	58.9	66.5	3	0	2	463.6	442.8	8	6	2	92.6	93.3					
14	25	1	4.3	11.5	3	2	2	424.3	402.3	8	8	2	117.7	117.7					
14	27	1	40.?	37.3	3	4	2	241.9	238.9	8	10	2	74.3	73.5					
14	29	1	227.3	222.6	3	6	2	358.6	356.5	8	12	2	12.0	23.5					
14	31	1	119.6	119.5	3	8	2	142.4	143.5	8	14	2	14.1	2.9					
14	33	1	61.0	64.0	3	10	2	337.0	352.8	8	16	2	103.2	107.3					
15	1	1	156.4	154.9	3	12	2	196.1	207.7	8	18	2	181.0	183.4					
15	3	1	59.7	56.2	3	14	2	243.9	261.5	8	20	2	180.8	171.5					
15	5	1	15.7	5.1	3	16	2	191.2	206.6	8	22	2	39.0	31.4					
15	7	1	11.7	8.3	3	18	2	254.6	274.9	8	24	2	26.1	26.5					
15	9	1	40.5	40.0	3	20	2	262.0	286.0	8	26	2	82.8	85.6					
15	11	1	60.1	49.0	3	22	2	255.9	279.0	8	28	2	141.9	144.6					
15	13	1	28.7	7.0	3	24	2	122.2	133.9	8	30	2	52.6	47.8					
15	15	1	14.9	13.5	3	26	2	231.1	253.2	8	32	2	14.1	20.6					
15	17	1	23.3	24.5	3	28	2	17.5	11.4	8	34	2	45.7	44.2					
15	19	1	111.9	111.3	3	30	2	176.2	182.9	8	36	2	35.0	43.0					
15	21	1	135.5	131.5	3	32	2	109.9	119.7	8	38	2	137.8	139.9					
15	23	1	73.4	74.1	3	34	2	124.7	136.1	8	40	2	98.2	88.6					
15	25	1	14.4	6.3	3	36	2	113.9	117.7	8	42	2	26.4	9.1					
15	27	1	7.5	15.3	3	38	2	114.8	115.3	8	44	2	29.6	5.8					
15	29	1	45.0	40.9	3	40	2	136.2	138.5	9	0	2	321.9	308.3					
16	1	1	45.9	42.2	3	42	2	135.5	132.6	9	2	2	46.1	55.6					
16	3	1	24.4	6.8	3	44	2	65.4	63.9	9	4	2	179.1	182.2					
16	5	1	77.2	71.3	3	46	2	123.3	124.1	9	6	2	104.3	107.2					
16	7	1	148.1	141.9	3	48	2	26.3	24.5	9	8	2	111.8	109.4					
16	9	1	84.1	82.6	4	0	2	60.4	53.8	9	10	2	544.7	550.7					
16	11	1	39.5	43.0	4	2	2	32.3	17.4	9	12	2	160.6	161.2					
16	13	1	150.6	147.6	4	4	2	228.3	220.9	9	14	2	69.2	68.8					
16	15	1	25.6	20.4	4	6	2	43.0	42.4	9	16	2	151.9	150.0					
16	17	1	24.2	22.1	4	8	2	311.1	307.6	9	18	2	44.0	43.7					
16	19	1	66.0	62.3	4	10	2	223.0	232.5	9	20	2	243.8	243.6					
16	21	1	4.1	1.4	4	12	2	146.3	151.4	9	22	2	35.4	43.9					
16	23	1	13.3	6.8	4	14	2	76.8	70.0	9	24	2	138.9	143.8					
16	25	1	93.0	89.3	4	16	2	262.4	274.5	9	26	2	83.8	88.2					
16	27	1	77.6	81.4	4	18	2	114.5	121.2	9	28	2	15.8	23.5					
17	1	1	69.3	71.3	4	20	2	154.9	156.1	9	30	2	340.1	346.6					

17	1	1	69.3	71.3	4	20	2	154.9	156.1	9	30	2	340.1	346.6
17	3	1	17.7	6.7	4	22	2	90.8	99.1	9	32	2	123.1	126.5
17	5	1	57.7	54.7	4	24	2	33.7	37.8	9	34	2	35.4	27.1
17	7	1	33.8	11.0	4	26	2	13.8	16.1	9	36	2	94.1	95.9
17	9	1	36.0	23.5	4	28	2	217.4	235.4	9	38	2	12.4	23.0
17	11	1	4.4	3.3	4	30	2	101.5	109.6	9	40	2	138.0	139.0
17	13	1	44.3	32.4	4	32	2	27.1	32.2	9	42	2	17.1	31.3
17	15	1	64.7	53.0	4	34	2	71.5	74.2	10	0	2	295.0	282.5
17	17	1	4.4	6.1	4	36	2	139.2	142.3	10	2	2	47.5	47.1
17	19	1	69.6	78.1	4	38	2	140.5	136.9	10	4	2	105.9	106.4
17	21	1	6.7	31.2	4	40	2	86.7	76.6	10	6	2	108.8	107.5
18	1	1	23.5	23.9	4	42	2	78.4	72.9	10	8	2	35.4	25.7
18	3	1	109.5	106.2	4	44	2	34.6	16.3	10	10	2	76.1	77.3
18	5	1	66.4	63.6	4	46	2	20.4	21.6	10	12	2	25.0	18.3
18	7	1	46.6	44.5	4	48	2	144.2	140.2	10	14	2	89.7	85.9
18	9	1	181.4	183.0	5	0	2	596.0	557.4	10	16	2	177.1	180.2
18	11	1	155.3	154.1	5	2	2	310.1	296.1	10	18	2	74.7	67.2
18	13	1	61.7	59.8	5	4	2	119.9	117.2	10	20	2	198.5	196.5
18	15	1	55.5	61.7	5	6	2	303.7	290.5	10	22	2	88.6	85.1
19	1	1	170.4	170.9	5	8	2	84.9	77.0	10	24	2	10.7	3.2
19	3	1	101.9	98.8	5	10	2	561.4	557.5	10	26	2	52.6	52.1
0	6	2	168.5	184.8	5	12	2	162.9	160.4	10	28	2	25.6	16.3
0	8	2	152.5	179.9	5	14	2	190.4	193.5	10	30	2	38.5	23.8
0	10	2	133.4	103.0	5	16	2	112.5	112.1	10	32	2	4.2	5.0
0	12	2	36.6	37.2	5	18	2	194.9	207.0	10	34	2	25.1	29.1
0	14	2	3.7	9.5	5	20	2	377.3	392.6	10	36	2	124.1	129.4
0	16	2	218.5	234.8	5	22	2	199.3	213.2	10	38	2	108.8	109.6
0	18	2	254.5	278.3	5	24	2	75.5	78.7	10	40	2	73.7	78.3
0	20	2	238.1	261.8	5	26	2	213.2	226.7	10	42	2	58.2	50.7
0	22	2	19.8	10.5	5	28	2	33.8	38.2	11	0	2	142.6	142.6
0	24	2	29.7	35.1	5	30	2	285.8	303.5	11	2	2	212.2	206.8
0	26	2	133.5	138.1	5	32	2	103.3	107.0	11	4	2	130.5	129.4
0	28	2	201.0	208.1	5	34	2	94.7	95.6	11	6	2	181.9	182.2
0	30	2	61.1	56.1	5	36	2	77.4	79.3	11	8	2	48.1	46.7
0	32	2	41.7	31.1	5	38	2	89.3	89.7	11	10	2	76.2	72.6
0	34	2	68.3	71.1	5	40	2	195.2	195.8	11	12	2	66.1	66.5
0	36	2	83.0	82.7	5	42	2	102.7	106.5	11	14	2	156.3	159.6
0	38	2	182.7	185.0	5	44	2	51.5	43.5	11	16	2	128.3	128.6
0	40	2	88.5	112.7	5	46	2	123.2	116.3	11	18	2	148.8	149.1
0	42	2	26.9	28.1	6	0	2	90.1	78.2	11	20	2	107.7	111.4
0	44	2	4.1	10.2	6	2	2	72.5	67.8	11	22	2	166.0	163.7
0	46	2	59.4	52.9	6	4	2	60.2	58.3	11	24	2	76.7	80.5
0	48	2	155.1	143.8	6	6	2	198.0	196.4	11	26	2	136.4	134.4
1	6	2	205.9	235.3	6	8	2	45.4	43.1	11	28	2	10.1	10.3
1	8	2	257.4	273.0	6	10	2	246.3	245.7	11	30	2	48.8	43.4
1	10	2	497.9	545.1	6	12	2	143.9	146.1	11	32	2	47.6	49.1
1	12	2	289.9	320.0	6	14	2	47.6	45.5	11	34	2	88.6	97.7
1	14	2	145.7	162.8	6	16	2	21.0	14.3	11	36	2	85.0	84.3
1	16	2	267.2	299.1	6	18	2	16.8	25.2	11	38	2	71.4	71.1
1	18	2	139.4	157.0	6	20	2	24.1	24.4	11	40	2	59.6	60.7
1	20	2	179.6	194.1	6	22	2	38.9	40.8	12	0	2	154.7	159.6
1	22	2	119.9	135.5	6	24	2	24.9	26.6	12	2	2	14.6	10.8

1	22	2	119.9	135.5	6	24	2	24.9	26.6	12	2	2	14.6	10.8
1	24	2	237.1	260.0	6	26	2	160.1	170.1	12	4	2	87.0	79.0
1	26	2	137.3	149.2	6	28	2	66.7	66.9	12	6	2	29.1	27.9
1	28	2	95.7	102.1	6	30	2	98.6	100.2	12	8	2	135.6	134.8
1	30	2	306.6	324.6	6	32	2	89.6	93.6	12	10	2	81.8	73.3
1	32	2	184.5	197.9	6	34	2	8.4	19.8	12	12	2	90.0	89.8
1	34	2	63.5	70.9	6	36	2	34.9	19.4	12	14	2	34.6	38.8
1	36	2	157.7	164.0	6	38	2	11.6	2.3	12	16	2	99.1	101.9
1	38	2	65.9	64.8	6	40	2	12.7	16.9	12	18	2	64.5	70.4
1	40	2	104.6	106.0	6	42	2	14.7	2.7	12	20	2	120.1	124.6
1	42	2	73.2	68.2	6	44	2	17.4	1.4	12	22	2	26.8	35.1
1	44	2	123.3	124.3	6	46	2	89.6	89.4	12	24	2	26.2	22.9
1	46	2	72.7	71.4	7	0	2	68.7	60.5	12	26	2	33.1	26.5
1	48	2	24.6	21.1	7	2	2	181.2	175.5	12	28	2	115.9	119.5
2	0	2	318.2	315.9	7	4	2	342.0	334.4	12	30	2	55.7	49.2
2	2	2	82.6	84.2	7	6	2	166.3	161.1	12	32	2	30.8	36.0
2	4	2	84.9	80.7	7	8	2	212.7	212.5	12	34	2	36.6	35.6
2	6	2	15.4	9.2	7	10	2	242.3	236.3	12	36	2	63.7	69.5
2	8	2	38.2	38.1	7	12	2	228.0	228.3	12	38	2	84.6	83.5
2	10	2	213.1	215.5	7	14	2	140.9	141.5	13	0	2	376.3	365.4
2	12	2	94.1	99.7	7	16	2	276.2	276.9	13	2	2	98.5	96.7
2	14	2	44.3	49.7	7	18	2	123.7	128.9	13	4	2	16.3	16.7
2	16	2	152.3	163.0	7	20	2	58.9	54.4	13	6	2	124.3	123.1
2	18	2	47.5	50.8	7	22	2	124.9	123.6	13	8	2	9.8	22.6
2	20	2	165.5	176.0	7	24	2	220.5	225.2	13	10	2	393.6	391.4
2	22	2	86.2	90.4	7	26	2	102.6	105.2	13	12	2	23.7	29.5
2	24	2	4.6	14.2	7	28	2	100.7	108.7	13	14	2	90.6	81.9
2	26	2	55.1	52.9	7	30	2	158.0	156.3	13	16	2	8.5	24.6
2	28	2	32.6	30.3	7	32	2	140.2	147.9	13	18	2	68.3	69.4
2	30	2	70.5	70.4	7	34	2	73.4	76.4	13	20	2	298.7	292.8
2	32	2	47.3	44.2	7	36	2	148.7	155.4	13	22	2	78.3	83.3
2	34	2	21.3	27.9	7	38	2	59.2	58.9	13	24	2	13.1	13.9

HOLDENITE

SHEET NO. 2 PART 1

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
13	26	2	112.6	111.2	3	13	3	150.2	163.9	8	27	3	60.8	55.6	15	1	3	237.3	234.3
13	28	2	46.3	62.3	3	15	3	125.4	134.4	8	29	3	72.9	73.9	15	3	3	157.3	155.7
13	30	2	260.7	258.3	3	17	3	115.2	124.4	8	31	3	23.6	29.1	15	5	3	22.1	7.8
13	32	2	35.0	[illegible]	3	19	3	191.2	211.8	8	33	3	32.6	15.1	15	7	3	164.4	164.2
13	34	2	41.3	.8	3	21	3	148.0	159.7	8	35	3	42.3	54.0	15	9	3	173.1	172.4
13	36	2	21.3	8.3	3	23	3	136.7	147.7	8	37	3	69.1	73.5	15	11	3	147.6	142.4
14	0	2	38.5	28.2	3	25	3	12.6	8.4	8	39	3	63.9	58.2	15	13	3	143.2	144.6
14	2	2	37.7	36.9	3	27	3	86.8	96.9	8	41	3	25.6	32.3	15	15	3	23.5	27.3
14	4	2	76.2	65.9	3	29	3	87.5	85.9	8	43	3	77.7	76.7	15	17	3	140.8	138.5
14	6	2	130.9	134.8	3	31	3	57.5	61.7	9	1	3	275.7	266.8	15	19	3	269.3	269.6
14	8	2	18.0	25.0	3	33	3	116.4	125.4	9	3	3	210.2	212.2	15	21	3	126.6	124.5
14	10	2	148.4	145.7	3	35	3	70.1	72.6	9	5	3	55.1	59.9	15	23	3	106.8	100.4
14	12	2	94.5	95.0	3	37	3	46.1	51.5	9	7	3	264.3	265.0	15	25	3	12.3	14.5
14	14	2	49.9	43.6	3	39	3	139.4	142.5	9	9	3	70.9	75.2	15	27	3	124.8	126.6
14	16	2	59.7	59.7	3	41	3	76.8	80.8	9	11	3	15.2	20.6	15	29	3	132.4	131.1
14	18	2	51.4	45.6	3	43	3	80.2	90.8	9	13	3	216.8	212.0	16	1	3	73.9	72.2
14	20	2	40.6	34.9	3	45	3	28.5	11.8	9	15	3	61.0	55.0	16	3	3	188.2	185.4
14	22	2	4.3	11.1	3	47	3	77.2	72.0	9	17	3	175.0	173.6	16	5	3	32.5	22.8
14	24	2	27.1	29.1	4	1	3	45.7	42.6	9	19	3	275.6	268.8	16	7	3	45.7	39.4
14	26	2	139.8	144.9	4	3	3	152.8	149.8	9	21	3	131.3	129.4	16	9	3	87.8	83.2
14	28	2	55.8	59.5	4	5	3	67.6	60.3	9	23	3	133.4	136.1	16	11	3	69.0	62.9
14	30	2	73.8	79.6	4	7	3	9.8	3.9	9	25	3	65.9	63.8	16	13	3	15.9	20.1
14	32	2	82.6	83.5	4	9	3	125.5	119.2	9	27	3	172.4	175.9	16	15	3	50.6	46.0
15	0	2	13.3	12.2	4	11	3	84.1	80.6	9	29	3	75.3	78.2	16	17	3	145.1	144.4
15	2	2	48.6	51.6	4	13	3	14.0	7.9	9	31	3	9.0	18.0	16	19	3	101.9	96.2
15	4	2	149.8	141.1	4	15	3	60.4	66.5	9	33	3	97.3	97.0	16	21	3	13.1	10.8
15	6	2	46.3	40.4	4	17	3	90.9	97.7	9	35	3	43.3	46.1	16	23	3	147.7	148.8
15	8	2	71.5	69.8	4	19	3	40.9	42.6	9	37	3	74.1	83.8	16	25	3	13.5	3.8
15	10	2	47.6	54.6	4	21	3	3.8	2.3	9	39	3	180.8	173.9	17	1	3	94.3	95.3
15	12	2	68.4	68.7	4	23	3	91.5	100.0	9	41	3	28.3	37.0	17	3	3	44.3	44.5
15	14	2	52.0	48.4	4	25	3	24.7	19.7	9	43	3	61.7	60.5	17	5	3	34.6	26.8
15	16	2	133.1	129.1	4	27	3	31.1	22.7	10	1	3	374.2	365.1	17	7	3	105.8	109.0
15	18	2	32.1	38.3	4	29	3	64.9	63.7	10	3	3	107.8	105.9	17	9	3	26.5	23.4
15	20	2	25.7	8.0	4	31	3	5.1	16.2	10	5	3	116.0	117.0	17	11	3	4.3	9.4
15	22	2	46.6	46.1	4	33	3	3.8	4.0	10	7	3	62.1	60.0	17	13	3	78.0	84.4
15	24	2	110.9	102.6	4	35	3	39.0	43.0	10	9	3	6.2	11.6	17	15	3	24.9	6.8
15	26	2	33.7	23.7	4	37	3	31.5	37.3	10	11	3	22.0	23.4	17	17	3	31.9	33.6
15	28	2	49.9	52.0	4	39	3	22.5	22.2	10	13	3	22.4	19.0	17	19	3	99.6	97.3
15	30	2	49.4	41.0	4	41	3	4.1	15.9	10	15	3	82.4	82.5	18	1	3	104.3	105.7
16	0	2	88.2	81.8	4	43	3	46.5	43.0	10	17	3	53.4	59.0	18	3	3	41.6	38.0
16	2	2	77.3	82.4	4	45	3	4.2	2.3	10	19	3	341.3	337.3	18	5	3	4.4	27.7
16	4	2	4.3	6.1	4	47	3	14.2	19.9	10	21	3	215.2	210.8	18	7	3	64.5	69.9
16	6	2	4.4	19.5	5	1	3	155.3	153.3	10	23	3	86.6	86.1	18	9	3	9.2	15.5

16	6	2	4.4	19.5	5	1	3	155.3	153.3	10	23	3	86.6	86.1	18	9	3	9.2	15.5
16	8	2	45.5	46.5	5	3	3	123.4	119.7	10	25	3	84.6	84.9	18	11	3	6.8	14.3
16	10	2	35.9	50.5	5	5	3	125.7	123.8	10	27	3	82.2	79.8	18	13	3	62.5	54.4
16	12	2	21.2	15.5	5	7	3	123.6	122.3	10	29	3	10.1	8.8	0	6	4	90.6	110.1
16	14	2	14.1	3.9	5	9	3	187.5	183.6	10	31	3	46.7	46.8	0	8	4	192.9	216.3
16	16	2	11.2	2.0	5	11	3	100.4	96.2	10	33	3	4.2	7.1	0	10	4	779.6	885.2
16	18	2	87.3	89.1	5	13	3	139.9	138.7	10	35	3	32.7	33.7	0	12	4	105.2	118.4
16	20	2	72.9	70.0	5	15	3	119.9	120.2	10	37	3	5.4	9.7	0	14	4	171.1	182.7
16	22	2	42.0	49.3	5	17	3	78.2	71.9	10	39	3	207.7	204.0	0	16	4	159.5	175.9
16	24	2	21.0	7.0	5	19	3	116.7	119.6	10	41	3	78.9	74.3	0	18	4	183.2	199.2
16	26	2	20.8	24.0	5	21	3	115.9	120.7	11	1	3	180.3	177.5	0	20	4	82.3	60.6
17	0	2	200.9	195.3	5	23	3	107.6	119.0	11	3	3	98.4	96.6	0	22	4	56.0	46.6
17	2	2	20.1	7.8	5	25	3	52.0	60.0	11	5	3	29.6	31.9	0	24	4	71.4	73.0
17	4	2	58.8	64.4	5	27	3	84.7	87.8	11	7	3	74.5	76.6	0	26	4	25.1	34.4
17	6	2	35.9	30.3	5	29	3	114.0	115.5	11	9	3	36.0	33.0	0	28	4	148.4	156.4
17	8	2	4.4	14.3	5	31	3	14.0	5.4	11	11	3	90.1	88.8	0	30	4	447.8	472.2
17	10	2	325.7	319.9	5	33	3	100.4	102.4	11	13	3	92.3	98.7	0	32	4	3.8	3.2
17	12	2	42.9	43.3	5	35	3	53.0	54.6	11	15	3	68.9	70.6	0	34	4	100.6	98.4
17	14	2	4.4	17.4	5	37	3	29.6	33.4	11	17	3	66.5	67.6	0	36	4	70.1	75.6
17	16	2	62.2	56.1	5	39	3	77.4	76.9	11	19	3	173.3	175.8	0	38	4	155.3	150.5
17	18	2	28.9	7.6	5	41	3	62.5	67.7	11	21	3	131.1	130.8	0	40	4	92.1	96.4
17	20	2	169.4	166.2	5	43	3	79.2	82.0	11	23	3	86.9	87.7	0	42	4	29.4	31.3
18	0	2	162.1	160.7	5	45	3	24.6	19.1	11	25	3	33.8	14.7	0	44	4	4.1	7.1
18	2	2	24.0	22.8	5	47	3	58.5	59.0	11	27	3	60.8	63.0	0	46	4	4.2	6.9
18	4	2	66.1	61.9	6	1	3	653.9	631.7	11	29	3	6.7	17.6	0	48	4	83.6	78.5
18	6	2	75.5	74.6	6	3	3	168.6	167.7	11	31	3	94.3	88.2	1	6	4	116.9	124.5
18	8	2	33.3	24.1	6	5	3	71.1	75.5	11	33	3	86.7	91.1	1	8	4	194.8	209.1
18	10	2	31.4	25.3	6	7	3	40.2	39.7	11	35	3	45.2	47.5	1	10	4	353.5	388.3
18	12	2	4.5	8.6	6	9	3	39.3	35.1	11	37	3	4.3	29.7	1	12	4	130.0	136.8
18	14	2	70.0	58.1	6	11	3	88.5	82.8	11	39	3	130.9	131.5	1	14	4	130.8	144.7
1	5	3	28.0	34.4	6	13	3	15.2	7.5	12	1	3	63.1	58.6	1	16	4	64.1	69.2
1	7	3	406.1	438.5	6	15	3	36.5	34.7	12	3	3	203.0	199.2	1	18	4	103.3	113.0
1	9	3	195.1	205.3	6	17	3	71.4	68.4	12	5	3	75.2	74.1	1	20	4	98.2	107.6
1	11	3	123.6	132.5	6	19	3	527.1	540.8	12	7	3	26.5	17.1	1	22	4	3.7	4.7
1	13	3	320.5	360.4	6	21	3	321.4	331.5	12	9	3	145.5	138.6	1	24	4	31.9	37.6
1	15	3	97.6	102.4	6	23	3	130.2	134.9	12	11	3	94.9	93.8	1	26	4	28.9	36.0
1	17	3	323.5	357.3	6	25	3	68.1	67.3	12	13	3	20.4	6.1	1	28	4	128.2	128.6
1	19	3	478.6	515.1	6	27	3	70.9	72.5	12	15	3	99.7	94.7	1	30	4	182.1	189.7
1	21	3	205.1	218.7	6	29	3	33.4	34.6	12	17	3	141.7	144.0	1	32	4	37.8	28.8
1	23	3	228.6	245.8	6	31	3	95.2	98.8	12	19	3	69.1	73.4	1	34	4	54.3	64.4
1	25	3	32.5	31.6	6	33	3	16.2	2.1	12	21	3	14.4	5.0	1	36	4	13.1	23.8
1	27	3	243.7	259.3	6	35	3	13.3	5.9	12	23	3	157.4	156.1	1	38	4	76.4	75.0
1	29	3	136.5	139.8	6	37	3	16.8	7.7	12	25	3	20.0	28.8	1	40	4	4.1	8.8
1	31	3	34.9	32.0	6	39	3	291.0	291.0	12	27	3	41.3	36.3	1	42	4	17.6	10.9
1	33	3	150.3	156.3	6	41	3	105.8	105.5	12	29	3	108.3	101.7	1	44	4	17.2	6.1
1	35	3	92.4	93.0	6	43	3	69.7	60.5	12	31	3	32.3	22.3	1	46	4	10.9	5.4
1	37	3	138.5	141.5	6	45	3	41.4	38.1	12	33	3	16.1	6.8	1	48	4	64.4	65.7
1	39	3	298.6	297.2	7	1	3	453.7	438.7	12	35	3	72.4	75.7	2	0	4	298.1	294.7
1	41	3	59.3	52.1	7	3	3	366.7	355.8	12	37	3	58.6	65.9	2	2	4	202.3	191.0
1	43	3	90.5	92.7	7	5	3	12.3	8.8	13	1	3	51.3	47.9	2	4	4	27.2	24.5
1	45	3	55.9	40.3	7	7	3	331.7	331.0	13	3	3	4.2	4.7	2	6	4	159.1	164.8
1	47	3	122.4	117.5	7	9	3	265.4	260.1	13	5	3	85.4	80.6	2	8	4	44.6	46.7

1	47	3	122.4	117.5	7	9	3	265.4	260.1	13	5	3	85.4	80.6	2	8	4	44.6	46.7
1	49	3	73.4	67.2	7	11	3	211.5	204.9	13	7	3	60.3	57.7	2	10	4	215.8	222.4
2	1	3	851.1	792.1	7	13	3	283.9	283.8	13	9	3	98.7	98.0	2	12	4	90.2	95.2
2	3	3	206.3	199.0	7	15	3	75.7	73.5	13	11	3	72.9	69.9	2	14	4	91.2	96.4
2	5	3	221.9	223.0	7	17	3	293.4	293.2	13	13	3	68.6	60.2	2	16	4	31.5	27.0
2	7	3	17.7	12.5	7	19	3	464.8	468.7	13	15	3	52.5	51.6	2	18	4	104.7	114.4
2	9	3	23.7	13.5	7	21	3	200.1	203.1	13	17	3	23.3	14.5	2	20	4	185.2	202.9
2	11	3	69.1	72.9	7	23	3	203.6	202.4	13	19	3	25.6	20.5	2	22	4	125.8	138.5
2	13	3	58.0	59.6	7	25	3	16.1	11.9	13	21	3	61.1	58.8	2	24	4	42.1	47.5
2	15	3	127.6	138.6	7	27	3	212.4	215.8	13	23	3	30.3	32.7	2	26	4	131.8	141.7
2	17	3	74.6	78.4	7	29	3	168.1	168.2	13	25	3	66.9	64.8	2	28	4	26.6	26.7
2	19	3	594.9	649.7	7	31	3	84.9	82.1	13	27	3	34.9	41.7	2	30	4	88.5	87.3
2	21	3	354.6	387.6	7	33	3	135.9	141.9	13	29	3	75.0	75.9	2	32	4	56.4	59.1
2	23	3	135.1	146.3	7	35	3	82.2	84.6	13	31	3	7.5	25.8	2	34	4	28.1	30.3
2	25	3	129.8	147.8	7	37	3	123.7	125.4	13	33	3	49.2	47.8	2	36	4	40.5	36.3
2	27	3	74.6	76.5	7	39	3	308.6	306.8	13	35	3	18.4	13.7	2	38	4	39.8	34.1
2	29	3	31.8	25.4	7	41	3	61.3	53.9	14	1	3	236.6	238.9	2	40	4	94.5	92.6
2	31	3	105.8	114.9	7	43	3	80.4	78.4	14	3	3	79.6	78.0	2	42	4	68.0	66.8
2	33	3	25.2	25.3	7	45	3	22.1	14.8	14	5	3	37.4	34.2	2	44	4	23.7	29.0
2	35	3	30.2	29.6	8	1	3	89.5	79.8	14	7	3	76.0	75.1	2	46	4	82.4	84.0
2	37	3	19.7	7.0	8	3	3	252.8	248.7	14	9	3	27.2	24.1	2	48	4	33.5	35.9
2	39	3	326.7	328.1	8	5	3	41.3	35.2	14	11	3	36.8	29.6	3	0	4	72.4	62.5
2	41	3	114.0	113.1	8	7	3	50.5	50.7	14	13	3	63.6	60.1	3	2	4	64.0	56.9
2	43	3	63.1	57.1	8	9	3	128.3	126.0	14	15	3	36.3	35.4	3	4	4	104.1	103.5
2	45	3	65.2	73.5	8	11	3	94.2	96.2	14	17	3	38.3	41.3	3	6	4	27.1	20.3
2	47	3	70.5	71.2	8	13	3	22.9	24.5	14	19	3	227.2	229.0	3	8	4	159.3	162.9
3	1	3	221.6	217.1	8	15	3	67.4	61.8	14	21	3	148.0	152.2	3	10	4	497.0	510.9
3	3	3	183.0	177.7	8	17	3	170.2	174.8	14	23	3	76.6	73.9	3	12	4	72.7	75.0
3	5	3	78.4	78.0	8	19	3	98.0	95.7	14	25	3	11.1	25.3	3	14	4	7.4	5.5
3	7	3	119.0	124.1	8	21	3	12.1	1.8	14	27	3	66.5	67.3	3	16	4	23.0	24.1
3	9	3	113.0	106.9	8	23	3	169.8	169.8	14	29	3	33.6	21.2	3	18	4	30.2	36.3
3	11	3	15.5	13.1	8	25	3	12.3	5.8	14	31	3	28.2	30.9	3	20	4	33.4	27.3

HOLDENITE

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
3	22	4	3.7	3.0	8	36	4	42.1	39.8	15	10	4	61.6	54.4					
3	24	4	56.3	65.1	8	38	4	130.9	125.6	15	12	4	79.3	74.1					
3	26	4	7.4	9.2	8	40	4	80.0	74.6	15	14	4	13.9	9.5					
3	28	4	121.9	131.8	8	42	4	4.2	6.5	15	16	4	4.2	3.2					
3	30	4	227.4	235.3	9	0	4	140.5	141.9	15	18	4	10.9	16.6					
3	32	4	6.9	13.4	9	2	4	63.9	73.3	15	20	4	15.5	7.7					
3	34	4	7.9	3.6	9	4	4	19.5	15.3	15	22	4	24.0	17.5					
3	36	4	26.1	12.9	9	6	4	133.0	129.7	15	24	4	11.0	0.4					
3	38	4	7.5	11.3	9	8	4	91.0	100.5	15	26	4	37.5	32.9					
3	40	4	13.8	5.5	9	10	4	241.0	242.4	15	28	4	47.9	39.9					
3	42	4	10.8	15.2	9	12	4	45.9	47.3	16	0	4	27.5	22.0					
3	44	4	13.9	22.6	9	14	4	133.7	136.4	16	2	4	58.6	66.2					
3	46	4	4.2	0.2	9	16	4	20.7	13.3	16	4	4	50.3	36.3					
4	0	4	622.7	590.8	9	18	4	103.6	104.6	16	6	4	74.7	69.5					
4	2	4	87.6	89.3	9	20	4	69.6	77.3	16	8	4	50.4	53.3					
4	4	4	32.5	24.3	9	22	4	24.2	14.8	16	10	4	179.1	180.7					
4	6	4	146.3	138.1	9	24	4	17.8	5.0	16	12	4	39.7	43.8					
4	8	4	49.4	44.8	9	26	4	68.2	63.8	16	14	4	91.6	91.8					
4	10	4	1910.2	1736.4	9	28	4	89.4	85.0	16	16	4	38.0	20.1					
4	12	4	197.9	200.9	9	30	4	137.1	134.0	16	18	4	85.2	86.2					
4	14	4	43.4	40.6	9	32	4	4.1	6.1	16	20	4	41.6	27.4					
4	16	4	154.6	156.9	9	34	4	70.8	73.7	16	22	4	42.4	39.7					
4	18	4	13.5	10.8	9	36	4	16.4	2.7	16	24	4	36.4	40.8					
4	20	4	426.3	449.0	9	38	4	80.9	79.8	17	0	4	45.1	54.7					
4	22	4	44.2	47.3	9	40	4	25.1	9.3	17	2	4	43.4	47.7					
4	24	4	12.3	16.5	9	42	4	20.5	1.2	17	4	4	30.4	21.8					
4	26	4	130.5	137.3	10	0	4	132.1	131.1	17	6	4	75.7	74.7					
4	28	4	169.3	179.2	10	2	4	170.3	166.9	17	8	4	19.0	34.1					
4	30	4	810.0	856.1	10	4	4	24.6	26.1	17	10	4	96.0	96.7					
4	32	4	186.6	195.3	10	6	4	220.3	222.2	17	12	4	11.7	12.3					
4	34	4	23.1	20.8	10	8	4	96.7	100.5	17	14	4	84.1	79.3					
4	36	4	156.2	152.4	10	10	4	254.7	253.7	17	16	4	15.5	17.9					
4	38	4	44.4	45.1	10	12	4	169.0	170.9	17	18	4	64.2	62.5					
4	40	4	238.9	241.5	10	14	4	158.3	159.5	18	0	4	60.2	70.2					
4	42	4	14.3	10.7	10	16	4	49.3	55.0	18	2	4	88.0	83.6					
4	44	4	14.0	8.3	10	18	4	141.1	136.2	18	4	4	26.5	23.4					
4	46	4	92.6	80.8	10	20	4	112.8	115.7	18	6	4	138.2	138.7					
5	0	4	104.0	107.3	10	22	4	114.7	112.9	18	8	4	56.9	66.8					
5	2	4	95.4	88.7	10	24	4	4.1	9.1	18	10	4	186.6	182.9					
5	4	4	90.4	83.9	10	26	4	179.3	181.0	1	5	5	81.4	79.7					
5	6	4	88.2	86.7	10	28	4	11.3	9.0	1	7	5	333.1	363.5					
5	8	4	116.1	118.6	10	30	4	130.2	127.4	1	9	5	266.2	291.9					
5	10	4	483.4	483.9	10	32	4	138.8	139.4	1	11	5	150.8	162.0					

5	10	4	483.4	483.9	10	32	4	138.8	139.4	1	11	5	150.8	162.0
5	12	4	21.2	18.1	10	34	4	64.2	63.4	1	13	5	308.0	340.7
5	14	4	59.9	62.9	10	36	4	55.4	56.6	1	15	5	66.9	73.5
5	16	4	7.6	13.9	10	38	4	73.3	66.4	1	17	5	295.5	326.5
5	18	4	75.6	79.7	10	40	4	84.0	80.3	1	19	5	29.2	34.8
5	20	4	57.4	53.6	11	0	4	17.5	16.7	1	21	5	100.4	106.8
5	22	4	23.0	12.8	11	2	4	17.3	12.7	1	23	5	151.5	161.0
5	24	4	44.5	49.6	11	4	4	4.1	11.5	1	25	5	70.2	79.9
5	26	4	50.0	52.5	11	6	4	38.7	40.0	1	27	5	158.9	180.2
5	28	4	113.5	119.0	11	8	4	83.4	83.1	1	29	5	201.3	204.5
5	30	4	217.1	226.5	11	10	4	207.3	204.1	1	31	5	26.1	8.7
5	32	4	19.3	26.6	11	12	4	70.0	63.2	1	33	5	152.9	161.8
5	34	4	13.1	19.6	11	14	4	32.6	37.2	1	35	5	54.9	53.1
5	36	4	10.9	19.3	11	16	4	9.8	13.2	1	37	5	178.6	182.4
5	38	4	45.1	39.3	11	18	4	4.0	1.9	1	39	5	25.4	15.8
5	40	4	24.3	7.2	11	20	4	4.1	9.2	1	41	5	60.5	54.7
5	42	4	15.0	13.9	11	22	4	4.1	11.7	1	43	5	61.4	57.4
5	44	4	4.2	9.7	11	24	4	6.1	22.6	1	45	5	65.0	65.1
5	46	4	13.2	19.8	11	26	4	25.8	26.2	1	47	5	59.5	56.5
6	0	4	341.0	320.5	11	28	4	80.9	72.1	2	1	5	605.9	587.4
6	2	4	63.3	66.0	11	30	4	133.4	127.0	2	3	5	385.4	379.5
6	4	4	86.2	85.7	11	32	4	40.2	36.1	2	5	5	38.8	35.1
6	6	4	36.2	28.4	11	34	4	12.0	17.7	2	7	5	186.6	191.9
6	8	4	101.7	102.5	11	36	4	17.6	20.6	2	9	5	111.3	111.3
6	10	4	33.4	13.9	11	38	4	23.0	8.8	2	11	5	133.9	138.1
6	12	4	111.1	113.6	12	0	4	337.9	317.1	2	13	5	138.0	149.4
6	14	4	50.4	51.9	12	2	4	62.5	71.4	2	15	5	81.7	89.3
6	16	4	23.7	39.9	12	4	4	89.7	85.1	2	17	5	234.2	257.5
6	18	4	16.7	6.3	12	6	4	78.6	76.6	2	19	5	498.1	547.4
6	20	4	204.9	204.3	12	8	4	18.8	5.9	2	21	5	291.6	322.7
6	22	4	88.1	85.7	12	10	4	777.8	777.4	2	23	5	241.3	261.8
6	24	4	86.9	95.1	12	12	4	109.2	108.8	2	25	5	57.3	63.6
6	26	4	3.9	12.6	12	14	4	10.9	28.3	2	27	5	159.2	165.9
6	28	4	66.2	68.9	12	16	4	145.9	139.9	2	29	5	71.3	74.0
6	30	4	17.7	6.6	12	18	4	10.7	20.9	2	31	5	100.8	103.4
6	32	4	77.2	80.5	12	20	4	263.9	255.0	2	33	5	85.8	88.1
6	34	4	15.9	27.8	12	22	4	62.2	65.6	2	35	5	96.7	97.8
6	36	4	24.8	7.4	12	24	4	33.8	31.6	2	37	5	89.0	89.8
6	38	4	38.5	29.3	12	26	4	85.8	85.9	2	39	5	327.0	329.6
6	40	4	75.7	72.9	12	28	4	77.5	83.6	2	41	5	116.9	119.3
6	42	4	63.7	52.7	12	30	4	488.2	481.3	2	43	5	128.7	128.2
6	44	4	71.6	69.7	12	32	4	117.5	116.5	2	45	5	43.9	38.3
7	0	4	107.1	94.1	12	34	4	4.3	9.4	3	1	5	243.9	247.2
7	2	4	25.1	27.2	12	36	4	135.8	129.7	3	3	5	36.9	33.6
7	4	4	61.1	51.9	13	0	4	50.5	52.8	3	5	5	63.1	63.7
7	6	4	23.4	9.5	13	2	4	53.9	60.3	3	7	5	106.2	103.9
7	8	4	159.3	156.8	13	4	4	15.3	5.8	3	9	5	175.9	186.3
7	10	4	233.7	227.8	13	6	4	71.4	67.1	3	11	5	161.5	173.4
7	12	4	136.1	133.7	13	8	4	30.3	34.3	3	13	5	164.6	176.7
7	14	4	37.9	37.5	13	10	4	216.3	222.0	3	15	5	41.0	40.3
7	16	4	49.5	44.1	13	12	4	21.8	14.4	3	17	5	68.7	76.7
7	18	4	51.2	48.6	13	14	4	52.7	53.4	3	19	5	203.0	215.7

7	18	4	51.2	48.6	13	14	4	52.7	53.4	3	19	5	203.0	215.7
7	20	4	52.9	43.6	13	16	4	24.5	18.3	3	21	5	77.8	82.0
7	22	4	8.3	2.0	13	18	4	55.0	64.0	3	23	5	22.7	27.2
7	24	4	29.9	30.6	13	20	4	40.0	33.7	3	25	5	36.2	43.5
7	26	4	26.6	16.5	13	22	4	20.8	25.2	3	27	5	26.1	24.7
7	28	4	98.9	97.1	13	24	4	9.5	8.5	3	29	5	84.0	92.1
7	30	4	131.7	135.5	13	26	4	49.0	49.1	3	31	5	74.4	73.1
7	32	4	65.8	59.3	13	28	4	48.9	59.3	3	33	5	124.2	130.1
7	34	4	24.2	27.6	13	30	4	123.4	127.3	3	35	5	7.8	3.7
7	36	4	25.3	19.6	13	32	4	21.4	32.8	3	37	5	75.5	78.4
7	38	4	45.2	40.4	13	34	4	27.2	23.2	3	39	5	101.8	97.7
7	40	4	10.7	6.9	14	0	4	154.6	152.5	3	41	5	20.3	8.3
7	42	4	4.2	1.6	14	2	4	4.3	7.0	3	43	5	33.3	33.3
7	44	4	6.3	16.2	14	4	4	77.2	67.4	3	45	5	29.4	18.7
8	0	4	108.6	92.3	14	6	4	78.9	79.7	4	1	5	35.1	22.6
8	2	4	78.8	77.7	14	8	4	107.1	103.5	4	3	5	74.1	71.6
8	4	4	73.7	71.6	14	10	4	113.7	109.7	4	5	5	9.6	10.5
8	6	4	106.8	109.8	14	12	4	129.9	131.1	4	7	5	19.4	7.8
8	8	4	138.0	141.1	14	14	4	77.6	78.6	4	9	5	13.6	10.5
8	10	4	546.7	554.4	14	16	4	52.6	43.7	4	11	5	2[illegible].4	26.6
8	12	4	83.8	84.1	14	18	4	44.0	37.3	4	13	5	10.2	8.0
8	14	4	147.8	149.3	14	20	4	105.3	105.6	4	15	5	43.9	43.6
8	16	4	79.9	76.2	14	22	4	32.4	37.6	4	17	5	46.7	51.9
8	18	4	145.6	147.8	14	24	4	76.9	75.8	4	19	5	40.6	39.1
8	20	4	62.4	33.2	14	26	4	39.0	45.7	4	21	5	3.8	6.4
8	22	4	4.0	0.7	14	28	4	65.0	59.5	4	23	5	45.1	47.5
8	24	4	19.8	16.8	14	30	4	61.4	60.2	4	25	5	14.2	14.8
8	26	4	36.6	39.2	15	0	4	27.6	8.4	4	27	5	24.4	16.0
8	28	4	102.0	106.5	15	2	4	4.3	16.6	4	29	5	12.5	2.5
8	30	4	330.3	335.2	15	4	4	14.4	4.7	4	31	5	27.9	22.7
8	32	4	5.5	6.5	15	6	4	26.9	27.9	4	33	5	7.0	10.1
8	34	4	87.2	91.7	15	8	4	74.6	67.0	4	35	5	44.8	36.5

HOLDENITE

SHEET NO. 3 PART 1

H	K	L	FO	FC
4	37	5	14.3	17.8
4	39	5	31.9	30.0
4	41	5	22.8	3.1
4	43	5	20.9	20.8
4	45	5	17.0	13.4
5	1	5	240.6	229.8
5	3	5	120.0	117.6
5	5	5	125.0	123.8
5	7	5	68.1	66.5
5	9	5	18.5	7.2
5	11	5	27.6	19.6
5	13	5	113.6	115.5
5	15	5	97.6	102.3
5	17	5	107.3	114.1
5	19	5	206.5	208.1
5	21	5	105.5	103.0
5	23	5	91.2	95.1
5	25	5	64.5	70.1
5	27	5	22.0	24.1
5	29	5	26.1	19.0
5	31	5	26.7	19.3
5	33	5	89.7	97.2
5	35	5	31.4	39.5
5	37	5	82.8	85.3
5	39	5	112.3	106.7
5	41	5	4.2	19.1
5	43	5	70.6	65.5
5	45	5	4.2	22.5
6	1	5	515.0	498.7
6	3	5	309.8	304.1
6	5	5	56.4	50.8
6	7	5	180.5	176.9
6	9	5	133.9	128.0
6	11	5	143.7	142.2
6	13	5	150.2	148.8
6	15	5	125.1	125.8
6	17	5	202.7	205.1
6	19	5	460.6	472.0
6	21	5	279.0	287.8
6	23	5	224.5	226.9
6	25	5	10.4	8.0
6	27	5	142.9	145.3
6	29	5	80.8	81.4
10	25	5	47.9	39.4
10	27	5	138.1	131.2
10	29	5	57.6	54.4
10	31	5	58.1	61.5
10	33	5	68.3	70.1
10	35	5	34.4	43.1
10	37	5	43.1	63.3
10	39	5	219.1	218.6
11	1	5	86.7	87.6
11	3	5	28.4	34.4
11	5	5	11.3	12.8
11	7	5	41.8	39.9
11	9	5	205.0	205.9
11	11	5	188.5	188.1
11	13	5	92.1	88.0
11	15	5	26.0	24.6
11	17	5	12.3	4.2
11	19	5	92.5	94.9
11	21	5	11.9	14.2
11	23	5	34.8	30.3
11	25	5	16.8	5.7
11	27	5	4.1	7.4
11	29	5	135.4	132.4
11	31	5	103.5	101.2
11	33	5	87.9	80.9
11	35	5	19.1	35.4
11	37	5	34.8	32.9
12	1	5	68.0	53.9
12	3	5	115.9	114.1
12	5	5	26.8	20.3
12	7	5	18.1	18.4
12	9	5	29.5	22.1
12	11	5	42.5	45.1
12	13	5	35.0	16.3
12	15	5	73.0	69.1
12	17	5	87.0	86.2
12	19	5	83.1	74.5
12	21	5	19.2	18.5
12	23	5	84.3	84.4
12	25	5	4.1	22.7
12	27	5	39.3	29.7
12	29	5	12.2	2.9
12	31	5	47.1	45.0
0	44	6	77.6	75.9
1	6	6	83.1	88.9
1	8	6	232.5	258.0
1	10	6	259.3	280.0
1	12	6	207.0	230.0
1	14	6	79.6	87.8
1	16	6	221.5	245.4
1	18	6	33.3	37.3
1	20	6	351.8	380.9
1	22	6	128.2	139.0
1	24	6	75.9	82.8
1	26	6	70.6	75.4
1	28	6	159.6	166.9
1	30	6	152.7	159.6
1	32	6	116.3	121.5
1	34	6	64.3	65.1
1	36	6	152.2	155.4
1	38	6	95.3	93.4
1	40	6	188.2	182.1
1	42	6	90.3	89.0
1	44	6	19.3	26.3
2	0	6	157.2	151.1
2	2	6	73.9	74.2
2	4	6	42.7	42.6
2	6	6	62.4	63.4
2	8	6	9.5	5.2
2	10	6	65.7	67.3
2	12	6	39.5	36.1
2	14	6	27.9	28.7
2	16	6	75.6	79.0
2	18	6	8.2	5.9
2	20	6	91.6	97.3
2	22	6	73.4	78.4
2	24	6	16.4	6.3
2	26	6	64.1	65.8
2	28	6	12.4	28.8
2	30	6	17.0	17.2
2	32	6	3.8	21.4
2	34	6	15.9	11.1
2	36	6	58.5	58.9
2	38	6	38.6	31.4
2	40	6	21.3	28.8
2	42	6	35.9	38.3
6	26	6	99.8	99.7
6	28	6	88.3	86.4
6	30	6	103.4	99.3
6	32	6	3.9	22.1
6	34	6	7.0	8.2
6	36	6	23.7	4.0
6	38	6	21.3	18.9
6	40	6	41.1	49.0
6	42	6	24.2	2.7
7	0	6	232.6	227.3
7	2	6	61.7	49.2
7	4	6	145.3	144.9
7	6	6	137.0	137.1
7	8	6	220.5	218.3
7	10	6	169.4	175.7
7	12	6	222.2	216.3
7	14	6	102.6	103.0
7	16	6	150.3	155.9
7	18	6	22.4	19.9
7	20	6	169.3	168.1
7	22	6	70.4	68.7
7	24	6	86.1	88.6
7	26	6	111.5	113.4
7	28	6	120.7	128.6
7	30	6	92.8	105.0
7	32	6	135.0	128.9
7	34	6	53.8	57.5
7	36	6	101.0	101.4
7	38	6	52.6	48.8
7	40	6	88.2	82.1
8	0	6	58.2	58.2
8	2	6	121.4	114.9
8	4	6	87.6	87.8
8	6	6	190.5	194.2
8	8	6	67.2	64.8
8	10	6	184.4	185.9
8	12	6	127.9	126.6
8	14	6	112.1	113.3
8	16	6	86.2	80.6
8	18	6	105.7	103.6
8	20	6	37.8	42.5
8	22	6	74.7	70.9
8	24	6	74.3	78.4

6	29	5	80.8	81.4	12	31	5	47.1	45.0	2	42	6	35.9	38.3	8	24	6	74.3	78.4
6	31	5	101.3	98.6	12	33	5	27.8	19.2	2	44	6	20.8	9.7	8	26	6	166.5	169.4
6	33	5	80.6	91.5	13	1	5	95.4	91.5	3	0	6	355.5	341.1	8	28	6	29.5	19.8
6	35	5	105.3	108.2	13	3	5	80.2	76.1	3	2	6	171.2	170.2	8	30	6	114.4	110.6
6	37	5	73.8	71.6	13	5	5	75.3	72.9	3	4	6	122.0	117.9	8	32	6	106.3	101.5
6	39	5	293.9	296.3	13	7	5	10.1	18.7	3	6	6	248.9	245.7	8	34	6	30.2	36.7
6	41	5	109.1	113.4	13	9	5	63.9	71.3	3	8	6	152.0	157.8	8	36	6	68.3	65.1
6	43	5	123.4	120.5	13	11	5	33.2	34.4	3	10	6	20.7	13.5	8	38	6	57.8	64.0
7	1	5	58.1	60.1	13	13	5	4.1	5.1	3	12	6	107.6	109.9	8	40	6	35.5	18.0
7	3	5	155.3	157.7	13	15	5	75.7	71.4	3	14	6	242.3	256.9	9	0	6	536.8	510.4
7	5	5	22.8	13.2	13	17	5	54.9	57.6	3	16	6	106.8	111.2	9	2	6	50.7	46.0
7	7	5	261.6	259.9	13	19	5	96.7	96.2	3	18	6	78.6	86.4	9	4	6	130.8	126.5
7	9	5	365.5	366.6	13	21	5	52.9	51.6	3	20	6	264.0	279.7	9	6	6	17.4	8.2
7	11	5	248.2	249.5	13	23	5	82.6	76.0	3	22	6	150.6	164.5	9	8	6	139.5	143.8
7	13	5	261.3	261.1	13	25	5	30.2	35.9	3	24	6	59.2	65.6	9	10	6	255.0	245.1
7	15	5	20.2	15.5	13	27	5	9.5	14.1	3	26	6	142.2	151.2	9	12	6	115.9	118.9
7	17	5	192.5	194.5	13	29	5	59.7	64.1	3	28	6	118.9	127.7	9	14	6	22.7	15.2
7	19	5	21.7	6.1	13	31	5	9.2	4.3	3	30	6	16.5	26.8	9	16	6	176.7	175.5
7	21	5	49.5	43.9	14	1	5	234.7	232.4	3	32	6	61.2	57.9	9	18	6	60.6	63.9
7	23	5	59.2	58.6	14	3	5	125.6	120.6	3	34	6	154.8	160.1	9	20	6	404.7	395.8
7	25	5	29.9	21.5	14	5	5	81.2	73.8	3	36	6	55.6	60.0	9	22	6	100.0	95.8
7	27	5	128.0	127.3	14	7	5	117.6	120.5	3	38	6	17.2	17.2	9	24	6	45.1	39.6
7	29	5	253.3	259.3	14	9	5	93.4	86.4	3	40	6	162.6	157.7	9	26	6	26.3	12.9
7	31	5	64.3	66.3	14	11	5	83.7	83.0	3	42	6	107.8	110.3	9	28	6	112.6	112.6
7	33	5	133.4	138.2	14	13	5	113.2	110.1	3	44	6	9.1	22.7	9	30	6	165.2	156.1
7	35	5	13.8	3.0	14	15	5	94.8	87.0	4	0	6	77.6	74.5	9	32	6	54.9	64.1
7	37	5	130.1	133.5	14	17	5	85.5	82.5	4	2	6	71.2	69.6	9	34	6	21.2	27.6
7	39	5	34.0	30.0	14	19	5	231.5	232.0	4	4	6	58.4	53.7	9	36	6	120.1	124.5
7	41	5	4.2	17.3	14	21	5	158.4	154.6	4	6	6	269.7	264.3	9	38	6	104.0	107.0
7	43	5	13.6	14.1	14	23	5	108.3	108.7	4	8	6	47.2	45.5	10	0	6	75.7	67.0
8	1	5	67.4	61.3	14	25	5	41.3	44.2	4	10	6	142.9	150.4	10	2	6	84.1	87.7
8	3	5	133.2	138.3	14	27	5	92.3	96.2	4	12	6	16.5	15.0	10	4	6	81.7	79.9
8	5	5	14.3	15.9	14	29	5	66.1	64.1	4	14	6	201.8	209.1	10	6	6	13.1	4.0
8	7	5	46.1	42.4	15	1	5	33.0	13.7	4	16	6	29.1	23.6	10	8	6	48.7	42.8
8	9	5	31.7	40.0	15	3	5	41.9	43.4	4	18	6	113.2	117.5	10	10	6	68.4	50.5
8	11	5	42.7	49.3	15	5	5	35.5	43.9	4	20	6	54.9	55.7	10	12	6	45.6	38.3
8	13	5	36.4	35.7	15	7	5	105.7	102.8	4	22	6	25.0	20.5	10	14	6	9.2	6.6
8	15	5	38.7	39.0	15	9	5	234.5	240.4	4	24	6	94.6	103.8	10	16	6	116.0	117.4
8	17	5	99.7	104.1	15	11	5	173.3	181.4	4	26	6	155.1	165.3	10	18	6	14.9	17.9
8	19	5	86.9	87.9	15	13	5	107.6	109.0	4	28	6	65.4	67.6	10	20	6	48.9	42.9
8	21	5	9.5	14.4	15	15	5	54.5	44.2	4	30	6	96.3	101.6	10	22	6	94.7	95.1
8	23	5	95.0	91.8	15	17	5	63.1	73.1	4	32	6	37.6	39.9	10	24	6	14.8	14.9
8	25	5	43.5	42.1	15	19	5	40.2	30.1	4	34	6	97.1	99.7	10	26	6	25.4	13.3
8	27	5	42.0	42.7	15	21	5	21.2	7.3	4	36	6	25.5	28.1	10	28	6	30.8	27.8
8	29	5	20.3	17.6	15	23	5	29.0	5.4	4	38	6	104.4	104.7	10	30	6	53.5	48.1
8	31	5	36.6	34.9	15	25	5	8.3	18.4	4	40	6	36.2	48.8	10	32	6	11.9	15.6
8	33	5	17.9	26.1	16	1	5	75.8	65.6	4	42	6	13.4	8.9	10	34	6	18.3	14.5
8	35	5	44.7	47.0	16	3	5	117.9	120.8	4	44	6	76.6	78.8	10	36	6	86.5	88.3
8	37	5	41.3	41.1	16	5	5	18.2	10.7	5	0	6	539.6	534.4	11	0	6	112.7	99.3
8	39	5	71.1	67.6	16	7	5	43.9	40.9	5	2	6	161.6	155.3	11	2	6	62.7	63.0
8	41	5	4.2	10.3	16	9	5	26.8	42.0	5	4	6	126.4	123.4	11	4	6	41.1	39.9
9	1	5	54.9	49.0	16	11	5	36.4	49.6	5	6	6	155.2	155.9	11	6	6	187.6	179.7

9	1	5	54.9	49.0	16	11	5	36.4	49.6	5	6	6	155.2	155.9	11	6	6	187.6	179.7
9	3	5	279.9	272.7	16	13	5	31.4	34.6	5	8	6	110.1	105.7	11	8	6	82.2	89.6
9	5	5	90.4	85.5	16	15	5	17.1	35.1	5	10	6	78.7	70.6	11	10	6	29.1	15.5
9	7	5	203.8	199.7	16	17	5	89.2	97.4	5	12	6	50.1	48.3	11	12	6	84.9	81.5
9	9	5	91.4	88.0	16	19	5	88.7	91.9	5	14	6	192.6	199.7	11	14	6	170.3	162.4
9	11	5	36.2	27.0	16	21	5	33.4	21.0	5	16	6	133.5	139.0	11	16	6	24.9	18.4
9	13	5	173.1	173.0	17	1	5	25.6	9.9	5	18	6	45.0	45.5	11	18	6	47.1	52.2
9	15	5	85.5	88.0	17	3	5	140.1	133.6	5	20	6	404.2	422.9	11	20	6	98.2	85.9
9	17	5	248.8	247.6	17	5	5	42.6	29.3	5	22	6	166.9	172.4	11	22	6	56.6	59.1
9	19	5	12.8	4.5	17	7	5	49.3	54.1	5	24	6	47.0	47.5	11	24	6	53.2	43.6
9	21	5	86.7	78.9	17	9	5	15.5	15.1	5	26	6	86.9	90.3	11	26	6	134.2	130.3
9	23	5	170.3	165.2	17	11	5	10.0	4.3	5	28	6	108.8	113.5	11	28	6	59.3	66.7
9	25	5	73.9	68.8	17	13	5	9.7	35.2	5	30	6	58.2	64.0	11	30	6	19.6	4.9
9	27	5	125.6	123.3	0	6	6	272.4	308.6	5	32	6	23.5	20.0	11	32	6	60.8	56.3
9	29	5	90.1	85.2	0	8	6	106.2	115.9	5	34	6	139.1	145.4	11	34	6	107.2	98.0
9	31	5	13.1	22.4	0	10	6	183.0	200.1	5	36	6	83.0	80.6	12	0	6	51.7	39.1
9	33	5	86.3	87.0	0	12	6	182.8	201.4	5	38	6	38.0	24.8	12	2	6	27.2	21.4
9	35	5	64.4	72.4	0	14	6	153.7	172.4	5	40	6	235.3	234.5	12	4	6	38.5	24.4
9	37	5	143.3	143.1	0	16	6	89.0	91.6	5	42	6	119.4	123.2	12	6	6	107.5	102.6
9	39	5	6.9	20.2	0	18	6	148.4	164.7	6	0	6	173.5	176.8	12	8	6	53.5	51.1
10	1	5	328.3	321.0	0	20	6	32.0	25.9	6	2	6	25.2	12.9	12	10	6	88.6	84.2
10	3	5	202.1	196.7	0	22	6	89.6	97.5	6	4	6	58.7	62.7	12	12	6	12.6	28.1
10	5	5	38.1	23.0	0	24	6	110.9	111.7	6	6	6	97.8	98.0	12	14	6	96.1	95.3
10	7	5	150.8	150.5	0	26	6	230.7	244.3	6	8	6	53.2	46.2	12	16	6	4.1	13.4
10	9	5	85.6	79.7	0	28	6	14.7	16.3	6	10	6	204.5	193.4	12	18	6	44.7	49.2
10	11	5	89.8	85.7	0	30	6	129.0	124.4	6	12	6	22.8	14.6	12	20	6	43.0	39.1
10	13	5	117.9	119.7	0	32	6	139.3	143.0	6	14	6	22.8	29.1	12	22	6	8.1	0.9
10	15	5	37.0	30.4	0	34	6	48.9	51.4	6	16	6	31.1	35.8	12	24	6	32.7	48.5
10	17	5	146.6	145.9	0	36	6	76.4	75.0	6	18	6	14.4	9.1	12	26	6	69.8	65.4
10	19	5	315.6	319.2	0	38	6	90.1	95.2	6	20	6	118.5	122.4	12	28	6	47.5	50.6
10	21	5	194.8	196.7	0	40	6	4.0	10.9	6	22	6	16.9	16.3	12	30	6	66.6	66.1
10	23	5	153.4	151.5	0	42	6	34.5	34.2	6	24	6	43.0	43.8	12	32	6	23.9	2.4

HOLDENITE

SHEET NO. 3 PART 2

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
13	0	6	409.9	405.?	4	13	7	87.5	87.2	10	25	7	22.1	24.0					
13	2	6	53.6	54.3	4	15	7	23.5	21.4	10	27	7	28.5	20.7					
13	4	6	63.5	62.3	4	17	7	30.0	29.3	10	29	7	113.0	120.1					
13	6	6	58.0	63.4	4	19	7	56.4	52.2	10	31	7	57.2	58.0					
13	8	6	34.4	29.1	4	21	7	36.4	38.6	10	33	7	33.0	37.4					
13	10	6	87.1	87.9	4	23	7	14.9	12.3	11	1	7	123.7	113.9					
13	12	6	10.2	6.1	4	25	7	21.8	17.2	11	3	7	164.0	162.6					
13	14	6	82.8	92.0	4	27	7	40.2	50.1	11	5	7	48.5	32.6					
13	16	6	76.2	76.2	4	29	7	19.5	17.3	11	7	7	232.1	231.9					
13	18	6	12.0	8.5	4	31	7	27.1	13.0	11	9	7	381.2	382.4					
13	20	6	336.0	337.9	4	33	7	50.3	50.5	11	11	7	269.0	265.1					
13	22	6	90.5	88.2	4	35	7	33.1	10.6	11	13	7	223.4	215.1					
13	24	6	12.5	21.7	4	37	7	33.4	20.7	11	15	7	21.6	7.2					
13	26	6	34.0	35.4	4	39	7	7.8	23.9	11	17	7	169.9	166.4					
13	28	6	53.0	55.0	4	41	7	4.1	13.1	11	19	7	112.7	106.4					
13	30	6	60.2	70.6	5	1	7	117.7	111.8	11	21	7	85.4	80.2					
14	0	6	108.0	117.6	5	3	7	216.6	214.2	11	23	7	109.2	107.5					
14	2	6	11.1	3.7	5	5	7	14.5	12.5	11	25	7	64.4	67.4					
14	4	6	77.4	68.5	5	7	7	190.8	185.2	11	27	7	139.5	138.5					
14	6	6	77.5	73.6	5	9	7	418.7	414.4	11	29	7	346.2	335.7					
14	8	6	44.8	39.9	5	11	7	301.5	302.2	11	31	7	109.4	103.6					
14	10	6	178.0	167.3	5	13	7	166.8	167.2	12	1	7	108.4	96.9					
14	12	6	4.2	8.4	5	15	7	12.0	7.4	12	3	7	38.9	36.4					
14	14	6	20.0	20.8	5	17	7	199.5	204.2	12	5	7	37.9	32.3					
14	16	6	59.2	58.6	5	19	7	120.2	120.9	12	7	7	131.1	136.5					
14	18	6	19.6	3.4	5	21	7	52.7	56.6	12	9	7	55.0	44.2					
14	20	6	78.4	90.7	5	23	7	121.4	125.9	12	11	7	31.2	15.5					
14	22	6	4.2	6.3	5	25	7	29.2	34.7	12	13	7	143.1	139.4					
14	24	6	48.8	43.6	5	27	7	102.9	102.5	12	15	7	11.2	29.7					
14	26	6	87.3	85.7	5	29	7	314.6	320.6	12	17	7	46.9	46.5					
15	0	6	35.5	36.4	5	31	7	122.2	123.4	12	19	7	94.2	82.6					
15	2	6	15.5	17.7	5	33	7	82.2	85.0	12	21	7	69.3	61.7					
15	4	6	45.5	47.3	5	35	7	29.0	19.9	12	23	7	26.3	19.9					
15	6	6	81.1	81.5	5	37	7	125.0	125.4	12	25	7	42.0	26.3					
15	8	6	103.1	100.5	5	39	7	75.8	82.0	12	27	7	85.6	88.8					
15	10	6	72.7	77.6	5	41	7	6.0	17.4	12	29	7	54.2	38.0					
15	12	6	122.8	114.6	6	1	7	101.2	88.2	13	1	7	42.2	52.7					
15	14	6	49.7	48.3	6	3	7	55.8	55.1	13	3	7	129.4	129.0					
15	16	6	31.4	38.7	6	5	7	153.4	154.2	13	5	7	4.2	2.9					
15	18	6	26.0	22.5	6	7	7	51.7	54.4	13	7	7	29.0	33.8					
15	20	6	34.5	26.9	6	9	7	228.2	223.7	13	9	7	173.0	170.1					
15	22	6	4.2	9.7	6	11	7	178.3	172.6	13	11	7	137.2	136.4					
16	0	6	62.7	64.6	6	13	7	60.4	58.8	13	13	7	28.9	29.4					

16	0	6	62.7	64.6	6	13	7	60.4	58.8	13	13	7	28.9	29.4
16	2	6	40.9	45.3	6	15	7	124.7	129.2	13	15	7	16.3	21.3
16	4	6	34.3	45.5	6	17	7	17.2	18.2	13	17	7	121.8	123.4
16	6	6	59.8	61.0	6	19	7	78.2	74.8	13	19	7	72.6	75.0
16	8	6	8.0	11.2	6	21	7	96.5	92.5	13	21	7	4.1	11.7
16	10	6	108.2	119.5	6	23	7	44.7	51.2	13	23	7	79.7	80.5
16	12	6	34.8	38.7	6	25	7	104.5	102.0	13	25	7	12.1	8.7
16	14	6	42.1	36.0	6	27	7	26.0	24.9	14	1	7	40.3	21.9
16	16	6	49.2	53.3	6	29	7	156.2	153.3	14	3	7	28.7	6.2
17	0	6	323.5	307.7	6	31	7	59.4	64.3	14	5	7	69.2	68.4
17	2	6	4.4	2.6	6	33	7	34.9	27.2	14	7	7	48.3	49.2
17	4	6	30.0	47.4	6	35	7	67.0	77.2	14	9	7	71.3	73.4
17	6	6	27.6	18.3	6	37	7	15.9	6.1	14	11	7	57.5	55.2
17	8	6	63.7	58.5	6	39	7	58.1	59.5	14	13	7	46.9	43.2
1	5	7	67.0	74.7	7	1	7	40.8	42.6	14	15	7	59.6	60.4
1	7	7	77.0	87.5	7	3	7	58.9	57.2	14	17	7	12.0	17.3
1	9	7	239.3	263.4	7	5	7	71.0	73.2	14	19	7	46.4	23.0
1	11	7	211.1	229.0	7	7	7	133.7	131.9	14	21	7	30.1	22.4
1	13	7	112.8	122.3	7	9	7	266.9	270.6	14	23	7	20.1	3.3
1	15	7	24.3	27.4	7	11	7	219.5	222.1	15	1	7	16.6	11.4
1	17	7	68.6	71.5	7	13	7	156.7	157.7	15	3	7	43.7	44.2
1	19	7	108.7	113.4	7	15	7	13.2	14.1	15	5	7	51.3	51.4
1	21	7	15.0	17.9	7	17	7	64.6	64.1	15	7	7	88.1	78.6
1	23	7	66.6	73.7	7	19	7	91.0	89.2	15	9	7	165.1	163.7
1	25	7	63.2	68.4	7	21	7	45.8	42.0	15	11	7	134.8	136.9
1	27	7	34.3	29.6	7	23	7	61.3	66.2	15	13	7	101.6	96.6
1	29	7	184.7	191.1	7	25	7	76.4	81.1	15	15	7	31.2	17.7
1	31	7	122.7	125.4	7	27	7	61.5	58.5	15	17	7	53.7	46.8
1	33	7	92.4	96.2	7	29	7	211.5	213.2	16	1	7	101.8	89.3
1	35	7	23.1	7.0	7	31	7	117.4	117.0	16	3	7	11.3	12.4
1	37	7	70.1	70.4	7	33	7	110.4	114.8	16	5	7	36.5	44.7
1	39	7	85.4	74.7	7	35	7	19.9	23.1	16	7	7	97.1	98.7
1	41	7	37.2	45.9	7	37	7	77.2	73.2	16	9	7	25.3	30.2
1	43	7	60.4	61.8	7	39	7	74.4	70.2	16	11	7	31.4	13.1
2	1	7	129.3	129.8	8	1	7	125.9	110.8	0	6	8	104.5	114.8
2	3	7	83.8	82.1	8	3	7	11.0	18.2	0	8	8	17.8	26.9
2	5	7	148.4	148.2	8	5	7	56.9	56.5	0	10	8	462.5	511.5
2	7	7	48.6	50.6	8	7	7	111.5	114.4	0	12	8	18.1	17.3
2	9	7	279.6	298.3	8	9	7	29.3	23.3	0	14	8	53.0	63.4
2	11	7	217.1	233.2	8	11	7	11.6	5.0	0	16	8	98.7	105.7
2	13	7	65.9	66.4	8	13	7	116.7	118.0	0	18	8	31.5	23.0
2	15	7	113.5	121.3	8	15	7	48.2	50.9	0	20	8	595.4	648.6
2	17	7	41.5	38.4	8	17	7	34.2	29.5	0	22	8	182.0	188.6
2	19	7	91.9	105.2	8	19	7	109.3	96.4	0	24	8	3.7	4.4
2	21	7	119.6	129.8	8	21	7	71.4	61.5	0	26	8	127.5	122.6
2	23	7	67.8	65.5	8	23	7	5.8	7.9	0	28	8	61.8	65.0
2	25	7	96.6	95.0	8	25	7	44.8	41.7	0	30	8	320.2	324.5
2	27	7	14.7	13.1	8	27	7	66.7	68.7	0	32	8	34.7	24.2
2	29	7	186.6	193.5	8	29	7	4.1	15.8	0	34	8	46.9	32.9
2	31	7	87.5	87.0	8	31	7	18.7	18.2	0	36	8	88.1	90.7
2	33	7	33.2	33.4	8	33	7	71.1	74.3	0	38	8	54.5	50.0
2	35	7	65.5	71.4	8	35	7	33.6	28.0	0	40	8	325.4	329.1

2	35	7	65.5	71.4	8	35	7	33.6	28.0	0	40	8	325.4	329.1
2	37	7	21.8	5.2	8	37	7	16.5	25.4	1	6	8	54.3	56.2
2	39	7	70.7	76.7	9	1	7	53.4	55.2	1	8	8	39.5	43.8
2	41	7	96.8	94.9	9	3	7	67.3	66.6	1	10	8	33.3	30.4
2	43	7	31.1	23.0	9	5	7	58.1	51.9	1	12	8	3.3	6.0
3	1	7	148.0	145.9	9	7	7	17.7	19.4	1	14	8	69.3	75.8
3	3	7	237.7	232.5	9	9	7	117.9	117.0	1	16	8	56.9	64.2
3	5	7	20.9	27.9	9	11	7	125.2	124.6	1	18	8	148.2	157.6
3	7	7	308.6	310.3	9	13	7	16.6	12.4	1	20	8	400.5	426.3
3	9	7	535.4	547.3	9	15	7	48.4	50.9	1	22	8	24.3	3.0
3	11	7	366.2	380.6	9	17	7	50.3	57.5	1	24	8	35.2	34.9
3	13	7	270.4	279.8	9	19	7	63.8	68.0	1	26	8	9.8	0.8
3	15	7	9.8	15.6	9	21	7	26.1	13.0	1	28	8	32.4	33.9
3	17	7	219.4	227.7	9	23	7	70.3	61.7	1	30	8	16.5	10.0
3	19	7	130.5	135.6	9	25	7	32.7	25.0	1	32	8	25.5	27.8
3	21	7	90.4	93.7	9	27	7	4.1	25.3	1	34	8	34.3	34.9
3	23	7	127.7	139.4	9	29	7	83.7	78.2	1	36	8	41.6	33.2
3	25	7	74.0	76.1	9	31	7	92.3	90.0	1	38	8	132.5	131.8
3	27	7	158.1	165.9	9	33	7	37.9	33.1	1	40	8	201.6	198.4
3	29	7	409.4	425.1	9	35	7	36.9	27.7	2	0	8	100.0	100.2
3	31	7	136.0	139.1	10	1	7	80.4	77.3	2	2	8	18.0	8.6
3	33	7	137.4	139.7	10	3	7	21.9	19.1	2	4	8	19.4	20.1
3	35	7	8.7	5.4	10	5	7	32.1	34.2	2	6	8	26.9	25.1
3	37	7	153.2	147.9	10	7	7	46.3	48.9	2	8	8	67.7	77.1
3	39	7	82.2	84.9	10	9	7	157.4	166.0	2	10	8	188.3	192.4
3	41	7	38.8	45.0	10	11	7	127.9	133.0	2	12	8	99.5	108.3
4	1	7	77.2	67.5	10	13	7	56.5	58.8	2	14	8	60.8	67.7
4	3	7	20.0	23.9	10	15	7	34.5	28.3	2	16	8	56.5	62.6
4	5	7	22.2	23.0	10	17	7	14.3	7.6	2	18	8	29.8	27.3
4	7	7	85.6	87.4	10	19	7	63.2	66.7	2	20	8	62.4	64.3
4	9	7	28.9	24.5	10	21	7	81.2	75.2	2	22	8	16.1	15.4
4	11	7	19.1	6.5	10	23	7	30.3	14.2	2	24	8	3.7	12.2

HOLDENITE

H	K	L	FO	FC
2	26	8	10.0	17.5
2	28	8	30.2	15.2
2	30	8	98.9	101.8
2	32	8	72.3	72.9
2	34	8	52.0	60.0
2	36	8	65.1	62.4
2	38	8	45.7	41.6
2	40	8	11.8	20.4
3	0	8	379.2	371.2
3	2	8	171.3	173.2
3	4	8	88.4	91.1
3	6	8	90.6	86.6
3	8	8	63.0	62.3
3	10	8	63.8	64.7
3	12	8	3.5	10.5
3	14	8	74.6	72.0
3	16	8	47.7	47.2
3	18	8	163.6	170.2
3	20	8	266.3	280.5
3	22	8	84.2	88.9
3	24	8	68.6	76.2
3	26	8	50.4	52.6
3	28	8	67.1	73.9
3	30	8	17.5	11.7
3	32	8	3.9	13.1
3	34	8	43.1	33.4
3	36	8	14.3	10.1
3	38	8	111.8	108.1
3	40	8	151.1	147.2
4	0	8	293.2	284.2
4	2	8	20.5	2.8
4	4	8	68.2	68.0
4	6	8	73.1	67.7
4	8	8	43.0	32.4
4	10	8	160.2	152.1
4	12	8	12.3	6.6
4	14	8	40.8	37.5
4	16	8	42.9	48.9
4	18	8	23.0	14.8
4	20	8	218.2	225.9
4	22	8	22.1	16.7
4	24	8	61.8	55.6
4	26	8	52.4	55.2
4	28	8	55.4	51.5
8	30	8	257.7	254.2
8	32	8	37.9	29.0
8	34	8	15.8	32.0
9	0	8	432.6	419.1
9	2	8	10.4	22.9
9	4	8	106.7	107.3
9	6	8	17.4	12.1
9	8	8	74.5	75.4
9	10	8	51.4	48.1
9	12	8	32.6	36.1
9	14	8	37.7	28.7
9	16	8	97.0	100.9
9	18	8	92.6	91.6
9	20	8	321.9	315.1
9	22	8	43.8	43.1
9	24	8	62.2	63.9
9	26	8	18.5	20.0
9	28	8	70.5	65.4
9	30	8	4.1	10.7
9	32	8	22.1	5.0
10	0	8	24.9	17.5
10	2	8	52.9	58.0
10	4	8	31.3	35.1
10	6	8	50.4	44.1
10	8	8	21.3	20.3
10	10	8	125.7	118.2
10	12	8	47.6	49.9
10	14	8	77.4	71.4
10	16	8	8.6	7.9
10	18	8	49.0	56.9
10	20	8	28.0	17.4
10	22	8	47.0	51.2
10	24	8	35.9	39.2
10	26	8	28.9	8.7
10	28	8	30.7	15.9
10	30	8	64.5	61.2
11	0	8	155.9	151.9
11	2	8	124.4	123.5
11	4	8	20.3	7.2
11	6	8	29.3	25.5
11	8	8	32.0	23.1
11	10	8	17.7	10.4
11	12	8	22.0	15.2
11	14	8	[illegible]	[illegible]
2	25	9	110.5	116.7
2	27	9	165.2	171.4
2	29	9	187.6	195.3
2	31	9	85.4	93.4
2	33	9	154.8	154.4
2	35	9	17.2	8.7
2	37	9	102.5	97.2
3	1	9	169.7	166.9
3	3	9	213.0	210.0
3	5	9	11.9	16.9
3	7	9	120.9	119.4
3	9	9	127.5	129.1
3	11	9	122.3	123.4
3	13	9	59.0	59.0
3	15	9	15.0	25.5
3	17	9	145.7	151.9
3	19	9	190.6	198.6
3	21	9	47.1	47.4
3	23	9	141.8	149.5
3	25	9	25.4	29.4
3	27	9	115.2	122.3
3	29	9	74.2	78.7
3	31	9	70.0	69.9
3	33	9	9.1	11.7
3	35	9	54.3	49.3
3	37	9	56.4	56.1
4	1	9	46.5	52.5
4	3	9	25.7	19.3
4	5	9	3.7	6.0
4	7	9	24.0	26.4
4	9	9	28.1	25.2
4	11	9	11.4	16.2
4	13	9	14.1	21.6
4	15	9	20.7	20.9
4	17	9	19.4	15.8
4	19	9	30.1	42.8
4	21	9	30.6	36.1
4	23	9	27.6	17.9
4	25	9	3.8	7.6
4	27	9	11.0	16.2
4	29	9	32.1	26.9
4	31	9	9.7	8.1
4	33	9	12.6	11.2
9	19	9	26.2	31.5
9	21	9	27.2	5.9
9	23	9	31.5	30.3
9	25	9	32.2	33.8
9	27	9	40.5	42.9
9	29	9	123.7	124.8
10	1	9	170.1	160.4
10	3	9	124.7	121.5
10	5	9	94.7	89.8
10	7	9	164.1	159.8
10	9	9	161.5	160.8
10	11	9	132.2	128.9
10	13	9	162.2	157.1
10	15	9	57.3	51.6
10	17	9	107.4	101.1
10	19	9	150.7	143.8
10	21	9	116.4	115.4
10	23	9	107.6	104.2
10	25	9	94.4	93.8
10	27	9	111.5	107.3
11	1	9	167.0	164.3
11	3	9	118.9	116.2
11	5	9	66.7	59.3
11	7	9	35.9	39.0
11	9	9	65.9	63.6
11	11	9	53.9	54.8
11	13	9	21.9	3.3
11	15	9	13.1	19.7
11	17	9	81.9	80.9
11	19	9	189.4	188.4
11	21	9	70.3	71.0
11	23	9	89.5	88.9
11	25	9	62.9	63.9
12	1	9	83.2	94.1
12	3	9	36.8	38.0
12	5	9	4.2	7.6
12	7	9	46.4	51.1
12	9	9	44.2	48.8
12	11	9	39.8	32.0
12	13	9	32.0	44.1
12	15	9	43.3	35.3
12	17	9	32.7	33.0
12	19	9	65.2	81.3

4	26	8	52.4	55.2	11	12	8	22.0	15.2	4	33	9	12.6	11.2	12	19	9	65.2	81.3
4	28	8	55.4	51.5	11	14	8	23.2	24.4	4	35	9	13.8	19.2	12	21	9	56.8	69.2
4	30	8	134.3	133.3	11	16	8	27.2	26.7	5	1	9	85.3	80.9	13	1	9	19.4	19.3
4	32	8	22.6	13.6	11	18	8	105.9	101.9	5	3	9	183.5	179.4	13	3	9	71.7	65.6
4	34	8	26.5	6.6	11	20	8	129.7	130.9	5	5	9	39.1	39.3	13	5	9	34.7	36.5
4	36	8	11.6	22.9	11	22	8	98.5	95.4	5	7	9	181.3	177.9	13	7	9	141.8	140.1
4	38	8	7.0	9.1	11	24	8	23.6	11.5	5	9	9	109.6	107.5	13	9	9	29.6	26.6
5	0	8	399.7	388.7	11	26	8	20.5	18.1	5	11	9	127.3	125.0	13	11	9	57.1	58.2
5	2	8	117.2	117.9	11	28	8	13.3	28.1	5	13	9	130.5	128.2	13	13	9	121.6	117.8
5	4	8	186.8	184.0	12	0	8	136.3	138.5	5	15	9	50.3	50.3	13	15	9	28.9	23.7
5	6	8	57.8	58.5	12	2	8	26.5	1.2	5	17	9	143.5	141.8	13	17	9	64.9	63.3
5	8	8	108.7	106.4	12	4	8	69.5	61.8	5	19	9	112.0	113.0	14	1	9	107.8	103.5
5	10	8	105.2	104.4	12	6	8	10.7	14.0	5	21	9	10.1	6.0	14	3	9	98.3	91.6
5	12	8	39.5	34.0	12	8	8	25.7	29.2	5	23	9	124.5	124.8	14	5	9	15.2	13.8
5	14	8	45.1	42.9	12	10	8	105.5	97.3	5	25	9	19.4	30.9	14	7	9	115.4	110.8
5	16	8	130.2	129.8	12	12	8	13.6	11.6	5	27	9	142.0	145.8	14	9	9	109.7	102.1
5	18	8	145.5	146.9	12	14	8	15.2	7.5	5	29	9	59.3	58.8	14	11	9	79.3	78.3
5	20	8	289.6	288.9	12	16	8	40.4	44.3	5	31	9	89.4	92.2	0	6	10	74.3	79.9
5	22	8	31.4	28.8	12	18	8	28.0	1.3	5	33	9	61.6	56.4	0	8	10	30.7	35.1
5	24	8	132.6	135.8	12	20	8	114.8	117.5	5	35	9	52.0	50.8	0	10	10	130.0	142.0
5	26	8	21.9	33.4	12	22	8	14.2	9.2	6	1	9	187.6	178.6	0	12	10	29.6	30.3
5	28	8	112.1	113.7	12	24	8	54.5	52.4	6	3	9	160.4	157.3	0	14	10	108.6	116.2
5	30	8	24.7	22.5	12	26	8	12.7	19.9	6	5	9	52.7	55.0	0	16	10	178.4	190.6
5	32	8	25.8	8.9	13	0	8	217.5	212.8	6	7	9	230.0	228.1	0	18	10	50.2	48.3
5	34	8	16.2	7.9	13	2	8	40.0	41.2	6	9	9	184.9	185.0	0	20	10	35.0	33.1
5	36	8	54.1	57.8	13	4	8	161.1	154.0	6	11	9	139.1	140.1	0	22	10	45.2	45.3
5	38	8	107.6	105.8	13	6	8	13.0	9.4	6	13	9	214.2	208.7	0	24	10	177.7	189.7
6	0	8	202.9	185.9	13	8	8	94.1	92.4	6	15	9	13.8	11.2	0	26	10	40.1	27.2
6	2	8	89.0	90.1	13	10	8	57.3	68.2	6	17	9	143.4	137.7	0	28	10	26.1	37.7
6	4	8	85.8	88.3	13	12	8	42.7	48.3	6	19	9	163.3	158.8	0	30	10	106.5	114.6
6	6	8	13.9	15.4	13	14	8	30.2	16.6	6	21	9	128.2	120.6	0	32	10	40.9	32.8
6	8	8	116.9	112.4	13	16	8	124.6	120.6	6	23	9	119.2	123.0	0	34	10	94.7	95.4
6	10	8	169.0	173.9	13	18	8	70.0	71.3	6	25	9	79.7	79.1	1	6	10	73.4	77.1
6	12	8	132.6	129.1	13	20	8	171.5	167.3	6	27	9	152.0	154.5	1	8	10	72.5	75.2
6	14	8	23.8	25.5	13	22	8	20.6	9.0	6	29	9	163.5	168.5	1	10	10	252.3	271.2
6	16	8	120.0	122.7	14	0	8	172.4	164.2	6	31	9	69.9	76.9	1	12	10	115.6	124.1
6	18	8	28.7	24.2	14	2	8	83.4	87.2	6	33	9	135.6	131.4	1	14	10	28.6	35.2
6	20	8	138.2	131.3	14	4	8	78.3	83.0	6	35	9	29.3	15.9	1	16	10	52.3	53.7
6	22	8	93.2	95.7	14	6	8	25.0	26.2	7	1	9	140.7	130.1	1	18	10	77.6	79.1
6	24	8	36.2	31.5	14	8	8	92.1	80.8	7	3	9	68.4	64.3	1	20	10	19.1	12.2
6	26	8	51.2	45.5	14	10	8	103.0	115.8	7	5	9	21.9	21.8	1	22	10	5.8	9.4
6	28	8	59.0	47.5	14	12	8	93.1	88.4	7	7	9	41.5	42.4	1	24	10	103.9	107.0
6	30	8	105.0	105.8	14	14	8	4.1	4.9	7	9	9	175.4	173.8	1	26	10	66.2	69.0
6	32	8	86.1	83.2	14	16	8	106.9	105.9	7	11	9	103.3	104.6	1	28	10	18.6	7.7
6	34	8	39.3	28.5	14	18	8	35.8	35.6	7	13	9	59.0	56.9	1	30	10	186.6	187.9
6	36	8	94.5	100.6	15	0	8	143.7	137.1	7	15	9	25.5	14.2	1	32	10	106.0	112.3
7	0	8	416.4	397.0	15	2	8	63.2	62.5	7	17	9	8.9	12.6	1	34	10	14.3	9.1
7	2	8	114.8	108.9	15	4	8	51.6	52.4	7	19	9	123.9	121.4	2	0	10	66.1	65.1
7	4	8	17.2	22.0	15	6	8	35.4	26.7	7	21	9	79.5	78.5	2	2	10	22.8	24.4
7	6	8	29.1	22.3	15	8	8	7.8	6.6	7	23	9	83.1	79.4	2	4	10	39.6	42.7
7	8	8	15.9	6.2	15	10	8	37.9	35.7	7	25	9	51.4	54.0	2	6	10	18.8	1.4
7	10	8	29.0	27.9	1	5	9	30.7	34.0	7	27	9	14.9	6.9	2	8	10	16.1	9.1

7	10	8	29.0	27.9
7	12	8	7.3	8.5
7	14	8	46.7	44.6
7	16	8	15.7	16.7
7	18	8	133.5	131.1
7	20	8	309.3	304.7
7	22	8	57.0	53.9
7	24	8	20.6	17.6
7	26	8	16.3	9.8
7	28	8	24.4	10.7
7	30	8	4.1	20.0
7	32	8	30.2	14.8
7	34	8	41.3	32.6
7	36	8	17.2	12.3
8	0	8	638.1	617.4
8	2	8	125.3	120.9
8	4	8	51.8	51.4
8	6	8	106.5	102.4
8	8	8	13.0	13.3
8	10	8	389.3	379.1
8	12	8	22.9	23.5
8	14	8	59.5	62.1
8	16	8	90.5	86.4
8	18	8	22.6	26.8
8	20	8	487.2	482.0
8	22	8	157.1	148.5
8	24	8	4.1	6.5
8	26	8	116.2	107.8
8	28	8	49.0	48.0
1	5	9	30.7	34.0
1	7	9	16.9	13.1
1	9	9	216.8	233.4
1	11	9	150.3	161.0
1	13	9	18.4	4.6
1	15	9	44.5	51.8
1	17	9	24.4	28.3
1	19	9	50.7	51.8
1	21	9	35.8	38.9
1	23	9	85.6	91.6
1	25	9	3.8	6.8
1	27	9	42.3	40.3
1	29	9	177.8	179.6
1	31	9	53.1	51.2
1	33	9	18.8	12.3
1	35	9	41.3	32.9
1	37	9	6.7	5.3
2	1	9	220.0	212.7
2	3	9	182.2	177.8
2	5	9	95.7	98.0
2	7	9	258.9	266.0
2	9	9	210.5	220.6
2	11	9	156.4	169.3
2	13	9	236.3	246.7
2	15	9	37.1	34.3
2	17	9	1[illegible].4	148.9
2	19	9	177.8	183.8
2	21	9	139.6	143.3
2	23	9	132.9	142.8
7	27	9	14.9	6.9
7	29	9	148.5	145.4
7	31	9	26.2	15.3
7	33	9	12.5	27.7
8	1	9	78.3	76.9
8	3	9	21.6	19.4
8	5	9	10.9	6.0
8	7	9	29.4	31.6
8	9	9	48.8	32.7
8	11	9	32.2	22.6
8	13	9	24.6	25.0
8	15	9	4.1	19.8
8	17	9	31.7	16.3
8	19	9	52.9	60.5
8	21	9	61.6	58.1
8	23	9	31.7	20.3
8	25	9	21.2	24.7
8	27	9	18.4	19.3
8	29	9	44.3	35.8
8	31	9	4.2	14.1
9	1	9	22.1	17.8
9	3	9	7.4	10.0
9	5	9	49.5	53.2
9	7	9	46.1	45.7
9	9	9	153.0	153.8
9	11	9	119.5	116.8
9	13	9	34.9	46.3
9	15	9	41.3	40.9
9	17	9	4.1	8.9
2	8	10	16.1	9.1
2	10	10	98.4	104.0
2	12	10	23.7	25.8
2	14	10	7.3	9.8
2	16	10	56.3	50.6
2	18	10	39.4	40.7
2	20	10	48.2	47.4
2	22	10	28.8	7.6
2	24	10	12.7	22.9
2	26	10	13.3	10.9
2	28	10	6.3	10.7
2	30	10	58.5	62.9
2	32	10	12.7	22.7
2	34	10	19.5	10.3
3	0	10	142.8	141.8
3	2	10	105.6	109.2
3	4	10	31.4	36.5
3	6	10	104.7	106.2
3	8	10	21.7	2.1
3	10	10	224.0	228.2
3	12	10	61.4	57.2
3	14	10	53.6	57.2
3	16	10	31.2	32.9
3	18	10	96.9	100.8
3	20	10	105.7	112.2
3	22	10	72.3	76.8
3	24	10	45.9	37.7
3	26	10	99.4	100.3
3	28	10	52.0	54.8

HOLDENITE

H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC	H	K	L	FO	FC
3	30	10	139.8	146.6	12	12	10	36.6	35.4	9	17	11	37.2	41.0					
3	32	10	61.4	61.9	12	14	10	52.7	49.4	9	19	11	182.7	182.3					
4	0	10	163.1	159.7	13	0	10	102.7	97.4	10	1	11	22.7	19.5					
4	2	10	173.3	168.4	13	2	10	43.5	48.3	10	3	11	25.4	23.6					
4	4	10	157.8	156.9	13	4	10	13.9	23.7	10	5	11	80.8	82.1					
4	6	10	129.7	124.1	13	6	10	75.8	75.7	10	7	11	33.2	31.5					
4	8	10	57.2	49.1	1	5	11	17.8	20.8	10	9	11	75.0	65.4					
4	10	10	184.1	179.8	1	7	11	112.5	115.7	10	11	11	63.8	56.2					
4	12	10	81.1	78.2	1	9	11	123.1	129.2	10	13	11	10.6	32.3					
4	14	10	93.5	93.3	1	11	11	101.6	107.3	10	15	11	82.5	85.1					
4	16	10	179.1	184.0	1	13	11	79.7	83.1	11	1	11	150.9	145.2					
4	18	10	101.4	102.2	1	15	11	3.7	6.2	11	3	11	118.8	117.2					
4	20	10	121.4	121.2	1	17	11	121.8	127.6	11	5	11	36.5	30.7					
4	22	10	147.7	149.8	1	19	11	305.2	315.3	11	7	11	16.8	19.6					
4	24	10	88.4	86.1	1	21	11	161.4	163.9	11	9	11	41.0	47.9					
4	26	10	112.3	114.7	1	23	11	118.6	115.7	11	11	11	4.2	10.3					
4	28	10	13.2	0.6	1	25	11	5.4	19.9	0	4	12	3.3	7.3					
4	30	10	109.8	110.1	1	27	11	104.2	103.6	0	6	12	8.8	8.2					
4	32	10	63.5	59.3	1	29	11	111.9	109.9	0	8	12	64.0	65.8					
5	0	10	151.8	140.4	2	1	11	7.4	5.9	0	10	12	11.5	22.0					
5	2	10	89.0	85.3	2	3	11	8.5	5.5	0	12	12	50.9	47.7					
5	4	10	3.7	7.3	2	5	11	106.7	107.5	0	14	12	3.4	6.6					
5	6	10	124.2	124.7	2	7	11	57.2	59.7	0	16	12	24.2	19.1					
5	8	10	18.0	8.8	2	9	11	112.0	113.1	0	18	12	24.8	13.7					
5	10	10	335.5	324.1	2	11	11	102.6	102.5	0	20	12	183.0	178.0					
5	12	10	85.3	85.1	2	13	11	58.3	58.0	0	22	12	3.8	2.8					
5	14	10	54.7	52.0	2	15	11	114.1	117.3	0	24	12	26.6	7.1					
5	16	10	28.8	18.2	2	17	11	14.2	15.3	1	4	12	54.9	58.5					
5	18	10	99.6	98.7	2	19	11	11.3	3.7	1	6	12	97.6	102.6					
5	20	10	119.3	112.1	2	21	11	14.9	6.5	1	8	12	91.4	93.9					
5	22	10	45.6	48.8	2	23	11	15.7	4.9	1	10	12	239.7	245.4					
5	24	10	13.0	22.2	2	25	11	62.4	67.0	1	12	12	39.3	48.6					
5	26	10	123.3	125.5	2	27	11	47.7	48.1	1	14	12	98.1	98.2					
5	28	10	75.6	69.3	2	29	11	101.3	98.3	1	16	12	45.7	50.1					
5	30	10	215.0	214.2	3	1	11	192.7	183.4	1	18	12	55.6	56.4					
5	32	10	91.4	90.6	3	3	11	107.2	104.0	1	20	12	18.2	29.2					
6	0	10	29.5	21.9	3	5	11	15.0	21.1	1	22	12	9.3	4.8					
6	2	10	20.4	19.2	3	7	11	20.4	10.6	1	24	12	45.7	37.1					
6	4	10	47.5	52.5	3	9	11	43.5	43.5	2	0	12	132.5	139.4					
6	6	10	41.8	35.9	3	11	11	19.8	15.8	2	2	12	73.3	76.7					
6	8	10	34.8	43.4	3	13	11	13.0	9.9	2	4	12	26.3	22.6					
6	10	10	18.5	4.7	3	15	11	39.5	43.6	2	6	12	30.6	34.2					
6	12	10	60.4	55.9	3	17	11	57.2	60.0	2	8	12	22.1	24.3					

6	12	10	60.4	55.9
6	14	10	15.2	20.0
6	16	10	61.0	55.2
6	18	10	14.2	5.0
6	20	10	34.6	22.2
6	22	10	22.2	21.2
6	24	10	37.9	35.2
6	26	10	24.9	35.9
6	28	10	21.5	15.2
6	30	10	18.8	5.5
7	0	10	10.8	7.4
7	2	10	51.7	52.6
7	4	10	108.8	103.9
7	6	10	21.3	20.5
7	8	10	53.8	48.8
7	10	10	132.5	126.2
7	12	10	73.5	65.5
7	14	10	30.6	16.1
7	16	10	89.2	84.5
7	18	10	61.3	62.9
7	20	10	20.4	7.5
7	22	10	37.9	33.2
7	24	10	96.7	87.7
7	26	10	25.9	14.7
7	28	10	22.2	22.6
8	0	10	24.2	24.6
8	2	10	12.5	22.9
8	4	10	171.4	172.2
8	6	10	59.3	52.2
8	8	10	22.7	12.3
8	10	10	124.1	119.8
8	12	10	4.1	8.4
8	14	10	86.3	82.7
8	16	10	141.9	135.2
8	18	10	25.6	27.2
8	20	10	20.9	29.1
8	22	10	23.2	22.2
8	24	10	145.3	142.5
8	26	10	39.1	14.2
9	0	10	18.2	17.7
9	2	10	20.3	13.9
9	4	10	51.7	56.1
9	6	10	79.5	79.4
9	8	10	50.6	49.9
9	10	10	291.2	292.0
9	12	10	103.2	103.1
9	14	10	38.0	35.2
9	16	10	23.4	18.4
9	18	10	62.0	56.6
9	20	10	15.4	19.3
9	22	10	16.3	15.6
9	24	10	78.0	81.1
10	0	10	127.6	119.2
3	17	11	57.2	60.0
3	19	11	174.9	174.4
3	21	11	121.6	122.8
3	23	11	104.0	103.4
3	25	11	7.4	12.7
3	27	11	33.6	31.0
3	29	11	51.1	52.0
4	1	11	9.1	7.5
4	3	11	29.8	25.4
4	5	11	8.8	17.5
4	7	11	13.2	16.7
4	9	11	44.7	31.6
4	11	11	32.4	30.0
4	13	11	19.4	12.2
4	15	11	18.3	7.4
4	17	11	18.5	21.4
4	19	11	12.4	7.9
4	21	11	28.6	8.8
4	23	11	3.9	21.5
4	25	11	11.1	19.7
4	27	11	17.7	12.4
4	29	11	26.6	19.5
5	1	11	133.4	129.8
5	3	11	18.0	17.5
5	5	11	16.6	16.5
5	7	11	20.6	11.5
5	9	11	4.1	15.2
5	11	11	23.6	24.1
5	13	11	13.1	16.2
5	15	11	13.4	20.5
5	17	11	19.3	7.2
5	19	11	115.2	112.2
5	21	11	103.5	102.0
5	23	11	40.8	34.9
5	25	11	12.7	1.9
5	27	11	11.8	19.8
6	1	11	15.3	5.2
6	3	11	14.5	9.6
6	5	11	70.4	67.2
6	7	11	57.3	54.7
6	9	11	102.5	102.3
6	11	11	95.4	94.6
6	13	11	55.6	47.9
6	15	11	87.2	77.3
6	17	11	11.5	14.8
6	19	11	7.7	3.4
6	21	11	9.8	3.1
6	23	11	4.1	3.5
6	25	11	40.6	41.3
7	1	11	297.4	289.8
7	3	11	216.6	213.0
7	5	11	8.7	3.9
2	8	12	22.1	24.3
2	10	12	90.6	90.4
2	12	12	39.0	47.6
2	14	12	15.0	3.8
2	16	12	28.6	16.9
2	18	12	33.5	34.5
2	20	12	101.9	106.3
2	22	12	76.8	76.1
2	24	12	40.7	43.2
3	0	12	57.6	52.9
3	2	12	30.0	28.9
3	4	12	30.6	26.7
3	6	12	29.6	27.5
3	8	12	80.5	81.4
3	10	12	309.9	306.9
3	12	12	38.3	36.9
3	14	12	15.7	22.1
3	16	12	14.6	12.2
3	18	12	17.5	17.5
3	20	12	48.7	51.0
3	22	12	37.7	35.6
3	24	12	20.3	21.6
4	0	12	380.7	356.7
4	2	12	8.8	6.9
4	4	12	92.4	89.1
4	6	12	42.0	39.1
4	8	12	127.8	120.2
4	10	12	211.9	208.2
4	12	12	142.2	137.2
4	14	12	10.7	7.1
4	16	12	95.9	91.0
4	18	12	51.7	47.4
4	20	12	302.7	293.0
4	22	12	36.9	31.9
5	0	12	33.1	21.3
5	2	12	6.4	4.1
5	4	12	19.2	22.7
5	6	12	89.5	87.8
5	8	12	56.8	51.7
5	10	12	337.4	321.0
5	12	12	8.8	8.3
5	14	12	71.7	73.0
5	16	12	4.0	8.9
5	18	12	17.3	22.4
5	20	12	32.7	29.9
5	22	12	24.9	21.2
6	0	12	93.0	84.0
6	2	12	59.5	53.7
6	4	12	38.0	38.0
6	6	12	23.0	22.3
6	8	12	13.6	5.3
6	10	12	46.0	48.5

9	24	10	78.0	81.1	7	5	11	8.7	3.9	6	10	12	46.0	48.5
10	0	10	123.6	110.2	7	7	11	115.2	112.5	6	12	12	16.2	17.1
10	2	10	47.4	41.3	7	9	11	97.6	94.8	6	14	12	16.6	8.5
10	4	10	24.3	20.9	7	11	11	86.3	83.4	6	16	12	4.0	1.7
10	6	10	25.5	24.3	7	13	11	87.6	80.9	6	18	12	34.0	23.9
10	8	10	12.1	14.1	7	15	11	35.8	33.8	6	20	12	72.9	63.7
10	10	10	138.3	146.3	7	17	11	172.0	169.2	7	0	12	55.3	42.6
10	12	10	26.7	1.8	7	19	11	333.6	318.9	7	2	12	19.7	12.0
10	14	10	39.7	29.9	7	21	11	161.4	153.9	7	4	12	50.7	47.1
10	16	10	25.4	32.6	7	23	11	168.9	160.2	7	6	12	30.5	20.9
10	18	10	65.2	56.3	8	1	11	6.1	6.8	7	8	12	90.1	91.4
10	20	10	100.1	88.2	8	3	11	54.0	50.2	7	10	12	163.0	163.0
10	22	10	12.4	20.8	8	5	11	30.6	18.4	7	12	12	77.4	74.1
11	0	10	96.7	96.2	8	7	11	31.0	35.1	7	14	12	18.5	26.1
11	2	10	83.5	84.6	8	9	11	47.5	44.7	7	16	12	43.6	39.5
11	4	10	40.8	47.3	8	11	11	53.9	44.9	8	0	12	186.7	167.5
11	6	10	43.3	36.6	8	13	11	32.9	28.4	8	2	12	5.4	8.7
11	8	10	18.3	21.7	8	15	11	23.9	3.2	8	4	12	15.7	6.7
11	10	10	67.9	74.7	8	17	11	34.1	42.7	8	6	12	21.3	13.1
11	12	10	6.7	5.2	8	19	11	13.5	6.3	8	8	12	61.8	53.5
11	14	10	32.8	32.1	8	21	11	23.9	11.8	8	10	12	32.1	18.8
11	16	10	56.4	59.1	9	1	11	172.8	173.8	8	12	12	39.4	39.8
11	18	10	56.8	60.5	9	3	11	55.0	47.1	8	14	12	19.2	8.4
12	0	10	119.3	125.6	9	5	11	18.8	21.6	9	0	12	23.6	15.4
12	2	10	96.0	90.9	9	7	11	92.4	93.8	9	2	12	53.3	50.8
12	4	10	75.7	79.2	9	9	11	118.3	111.7	9	4	12	19.1	18.5
12	6	10	75.2	70.3	9	11	11	88.0	81.4	9	6	12	142.8	139.8
12	8	10	15.0	12.1	9	13	11	79.3	73.3	9	8	12	46.9	50.5
12	10	10	144.7	145.1	9	15	11	17.0	19.9					