

NEIMAN ROAD

KLAUS LANE

SECTION 3
94 LOTS

SECTION 2
106 LOTS

SECTION 1
112 LOTS

F.M. 1458

F.M. 1458 Rd

F.M. 1458 Rd

Kountze Cemetery

Klaus Rd

Vaclavik Rd

Bessies Creek

PATTISON ET AL
WALLER COUNTY

1458

1458

500 YEAR FLOODPLAIN

100 YEAR FLOODPLAIN

100 YEAR FLOODPLAIN

FLOODWAY
100 YEAR FLOODPLAIN

DET
4.8 AC

DET
3.8 AC

REC
1.0 AC

DET
7.2 AC

WWTP
2.8 AC

DET
20.8 AC

20' BUFFER

20' BUFFER

50' BUFFER

50' BUFFER

20' R.O.W. DEDICATION

20' R.O.W.

20' BUFFER

50' PIPELINE ESMT.

20' BUFFER

20' R.O.W.

20' BUFFER

20' R.O.W.

20' BUFFER

20' R.O.W.

20' BUFFER

20' R.O.W.

20' BUFFER

20' R.O.W.

20' BUFFER

20' R.O.W.

20' BUFFER

20' R.O.W.

20' BUFFER

20' R.O.W.

MODIFIED RATIONAL METHOD

EXISTING	Area	IMPV	GRASS	Lsh (SHEET FLOW)	Lsc (SHALLOW CO)	Lch (CHANNEL FLOW)	LENGTH TOTAL
EXISTING 1	7,563,619	0	7563619.1	100	500	3600	4000
PROPOSED	Area	IMPV	GRASS	Lsh (SHEET FLOW)	Lsc (SHALLOW CO)	Lch (CHANNEL FLOW)	LENGTH TOTAL
NORTH	7563619.1	2,394,013	5,169,606	100	500	3600	4000
TxDOT RAINFALL INTENSITY CHART WALLER COUNTY							
	2 yr	5 yr	10 yr	25 yr	50 yr	100 yr	500 yr
b	63.0473	69.2679	72.9734	76.6416	76.6776	78.4515	102.5443
d	12.72	11.96	11.44	10.84	10.10	9.89	13.61
e	0.8153	0.7779	0.7533	0.7233	0.6977	0.6768	0.6663
	$i = b / (t_c + d)^e$						

LOTS

AVERAGE IMPV

416.0	2,800.0	1,164,800
19.83	POND	863,963
	ROAD	315249.6
68.65	WWTP	50,000

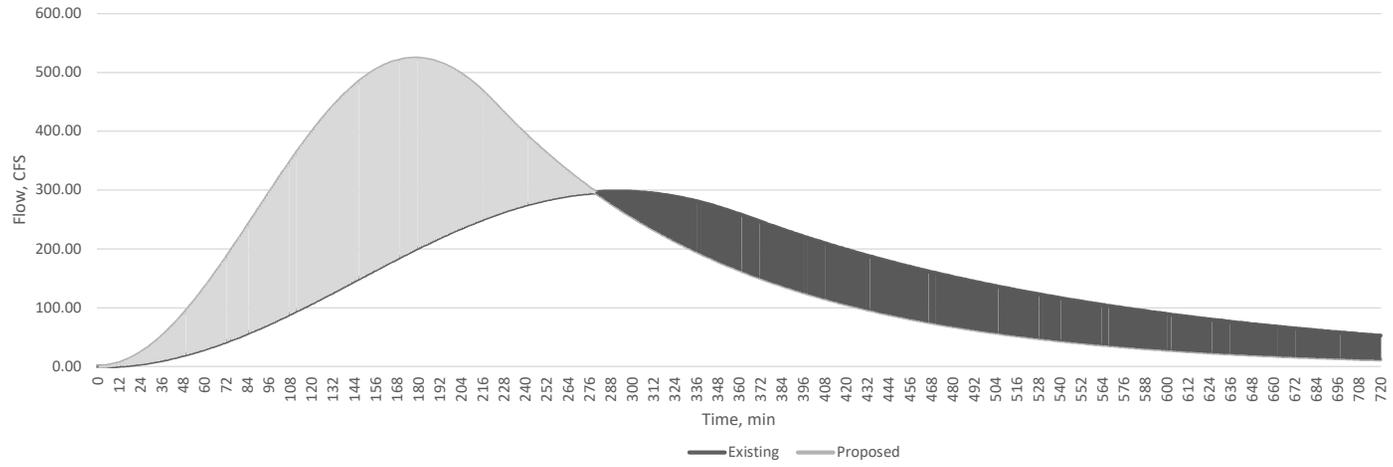
PONDS

	98,333	36,626	135400	593604
525,416	2,698,788			
	204,999			
	459,402			
	255,495			
	446,115			
	139,301			
	208,449			
	234,663			
	224,948			

Drainage Area	Area (ac)	Imp Cover	Non Imp	C	C-2	C-10	C-25	C-100	Ltotal	Lsh	Lsc	Lch	Tsh	Tsc	Tch	Tc	i-2	i-10	i-25	i-100	Q2	Q10	Q25	Q100
		0.85	0.25										0.9	0.9	2									
EXISTING																								
EXISTING 1	173.64	0%	100%	0.25	0.25	0.26	0.28	0.31	4000	100	500	3600	1.85	9.26	####	41.11	2.45	3.69	4.40	5.48	106.15	168.17	210.15	297.45
PROPOSED																								
NORTH	173.64	32%	68%	0.44	0.44	0.46	0.48	0.55	4000	100	500	3600	1.85	9.26	####	41.11	2.45	3.69	4.40	5.48	186.78	295.92	369.78	523.40

	EXISTING	PROPOSED
TIME OF CONCENTRATION		
TC (MIN)	41.11	41.11
INTENSITY		
I, 2YR (IN/HR)	2.45	2.45
I, 10YR (IN/HR)	3.69	3.69
I, 25YR (IN/HR)	4.40	4.40
I, 100YR (IN/HR)	5.48	5.48
RUNOFF COEFFICIENT		
C	0.25	0.44
C, 2YR	0.25	0.44
C, 10YR	0.26	0.46
C, 25YR	0.28	0.48
C, 100YR	0.31	0.55
DRAINAGE AREA		
A (AC)	173.64	173.64
PEAK DISCHARGE		
Q, 2YR (CFS)	106.15	186.78
Q, 10YR (CFS)	168.17	295.92
Q, 25YR (CFS)	210.15	369.78
Q, 100YR (CFS)	297.45	523.40

100YR Malcom's Method Hydrograph, 12 HOUR



TIME (HR)	TIME (MIN)	TIME (SEC)	2-YR		10-YR		25-YR		100-YR	
			EXIST	PROP	EXIST	PROP	EXIST	PROP	EXIST	PROP
0.000	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.017	1	60	0.01	0.04	0.01	0.04	0.01	0.04	0.01	0.04
0.033	2	120	0.04	0.16	0.04	0.15	0.03	0.14	0.03	0.16
0.050	3	180	0.10	0.36	0.08	0.34	0.07	0.33	0.08	0.37
0.067	4	240	0.18	0.64	0.14	0.60	0.13	0.58	0.14	0.65
0.083	5	300	0.28	1.00	0.22	0.94	0.20	0.90	0.22	1.02
0.100	6	360	0.40	1.44	0.32	1.35	0.29	1.30	0.31	1.46
0.117	7	420	0.54	1.95	0.44	1.84	0.40	1.77	0.42	1.99
0.133	8	480	0.71	2.55	0.57	2.40	0.52	2.31	0.55	2.60
0.150	9	540	0.90	3.22	0.73	3.04	0.66	2.92	0.70	3.28
0.167	10	600	1.11	3.97	0.90	3.74	0.81	3.60	0.86	4.05
0.183	11	660	1.34	4.79	1.08	4.53	0.98	4.36	1.04	4.90
0.200	12	720	1.59	5.70	1.29	5.38	1.17	5.18	1.24	5.83
0.217	13	780	1.87	6.67	1.51	6.31	1.37	6.08	1.45	6.84
0.233	14	840	2.16	7.73	1.75	7.31	1.59	7.04	1.69	7.92
0.250	15	900	2.48	8.85	2.01	8.38	1.83	8.08	1.93	9.09
0.267	16	960	2.82	10.05	2.29	9.52	2.08	9.18	2.20	10.33
0.283	17	1020	3.18	11.32	2.58	10.73	2.35	10.35	2.48	11.66
0.300	18	1080	3.56	12.65	2.89	12.02	2.63	11.59	2.78	13.06
0.317	19	1140	3.96	14.06	3.22	13.37	2.93	12.90	3.10	14.53
0.333	20	1200	4.38	15.54	3.57	14.79	3.24	14.28	3.43	16.09
0.350	21	1260	4.83	17.08	3.93	16.27	3.57	15.72	3.78	17.72
0.367	22	1320	5.29	18.69	4.31	17.83	3.92	17.23	4.15	19.42
0.383	23	1380	5.77	20.36	4.71	19.45	4.28	18.80	4.53	21.21
0.400	24	1440	6.28	22.09	5.12	21.13	4.66	20.44	4.94	23.06
0.417	25	1500	6.80	23.89	5.55	22.88	5.05	22.14	5.35	24.99
0.433	26	1560	7.34	25.74	6.00	24.70	5.46	23.91	5.79	26.99
0.450	27	1620	7.90	27.65	6.46	26.57	5.89	25.74	6.24	29.07
0.467	28	1680	8.48	29.62	6.94	28.51	6.32	27.63	6.70	31.22
0.483	29	1740	9.08	31.65	7.44	30.51	6.78	29.59	7.19	33.44
0.500	30	1800	9.69	33.72	7.95	32.57	7.25	31.60	7.69	35.73
0.517	31	1860	10.33	35.85	8.48	34.69	7.73	33.68	8.20	38.09
0.533	32	1920	10.98	38.03	9.03	36.86	8.24	35.81	8.74	40.52
0.550	33	1980	11.65	40.25	9.59	39.09	8.75	38.00	9.29	43.02
0.567	34	2040	12.34	42.52	10.17	41.38	9.28	40.25	9.85	45.59
0.583	35	2100	13.04	44.83	10.76	43.72	9.83	42.56	10.43	48.22
0.600	36	2160	13.77	47.19	11.37	46.11	10.39	44.92	11.03	50.92
0.617	37	2220	14.50	49.58	12.00	48.56	10.96	47.33	11.64	53.69
0.633	38	2280	15.26	52.01	12.64	51.05	11.55	49.80	12.27	56.52
0.650	39	2340	16.03	54.48	13.29	53.60	12.15	52.33	12.91	59.42
0.667	40	2400	16.81	56.98	13.97	56.19	12.77	54.90	13.57	62.37
0.683	41	2460	17.62	59.51	14.65	58.83	13.40	57.53	14.25	65.39
0.700	42	2520	18.43	62.07	15.35	61.52	14.05	60.20	14.94	68.47
0.717	43	2580	19.26	64.66	16.07	64.24	14.71	62.93	15.65	71.61
0.733	44	2640	20.11	67.27	16.80	67.02	15.39	65.70	16.37	74.81
0.750	45	2700	20.96	69.90	17.54	69.83	16.08	68.52	17.11	78.07
0.767	46	2760	21.83	72.56	18.30	72.68	16.78	71.38	17.86	81.38
0.783	47	2820	22.72	75.23	19.07	75.57	17.49	74.29	18.63	84.75
0.800	48	2880	23.62	77.92	19.86	78.50	18.22	77.24	19.41	88.18
0.817	49	2940	24.53	80.62	20.66	81.46	18.97	80.24	20.21	91.66
0.833	50	3000	25.45	83.33	21.47	84.46	19.72	83.27	21.03	95.19
0.850	51	3060	26.38	86.05	22.30	87.49	20.49	86.34	21.85	98.77
0.867	52	3120	27.33	88.78	23.14	90.54	21.28	89.46	22.70	102.41
0.883	53	3180	28.28	91.51	23.99	93.63	22.07	92.61	23.55	106.09
0.900	54	3240	29.25	94.24	24.86	96.75	22.88	95.79	24.43	109.82
0.917	55	3300	30.22	96.97	25.74	99.89	23.70	99.02	25.31	113.60
0.933	56	3360	31.21	99.70	26.63	103.06	24.54	102.27	26.21	117.43
0.950	57	3420	32.20	102.42	27.53	106.25	25.38	105.56	27.13	121.30
0.967	58	3480	33.20	105.14	28.45	109.46	26.24	108.88	28.06	125.21
0.983	59	3540	34.22	107.84	29.37	112.69	27.11	112.22	29.00	129.17
1.000	60	3600	35.24	110.54	30.31	115.94	28.00	115.60	29.96	133.17
1.017	61	3660	36.26	113.22	31.26	119.20	28.89	119.00	30.93	137.20
1.033	62	3720	37.30	115.88	32.23	122.48	29.80	122.43	31.91	141.28
1.050	63	3780	38.34	118.52	33.20	125.77	30.72	125.89	32.91	145.39
1.067	64	3840	39.38	121.14	34.18	129.08	31.65	129.36	33.92	149.54
1.083	65	3900	40.43	123.74	35.18	132.39	32.59	132.86	34.94	153.73
1.100	66	3960	41.49	126.31	36.18	135.71	33.54	136.38	35.98	157.94
1.117	67	4020	42.55	128.85	37.20	139.04	34.51	139.92	37.03	162.19

2 Q Difference		10 Q Difference		25 Q Difference		100 Q Difference	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.03	0.03	0.03	0.04	0.03	0.03	0.03	0.03
0.12	0.12	0.11	0.15	0.11	0.11	0.11	0.13
0.26	0.26	0.26	0.34	0.25	0.25	0.25	0.29
0.46	0.46	0.46	0.60	0.45	0.45	0.45	0.51
0.72	0.72	0.71	0.94	0.70	0.70	0.70	0.80
1.04	1.04	1.03	1.35	1.01	1.01	1.01	1.15
1.41	1.41	1.40	1.84	1.37	1.37	1.37	1.57
1.84	1.84	1.83	2.40	1.79	1.79	1.79	2.05
2.32	2.32	2.31	3.04	2.26	2.26	2.26	2.59
2.86	2.86	2.85	3.74	2.79	2.79	2.79	3.19
3.46	3.46	3.44	4.53	3.37	3.37	3.37	3.86
4.10	4.10	4.09	5.38	4.01	4.01	4.01	4.59
4.81	4.81	4.80	6.31	4.70	4.70	4.70	5.38
5.56	5.56	5.55	7.31	5.45	5.45	5.45	6.24
6.37	6.37	6.37	8.38	6.25	6.25	6.25	7.16
7.23	7.23	7.23	9.52	7.10	7.10	7.10	8.13
8.14	8.14	8.15	10.73	8.01	8.01	8.01	9.17
9.09	9.09	9.12	12.02	8.96	8.96	8.96	10.27
10.10	10.10	10.15	13.37	9.97	9.97	9.97	11.43
11.15	11.15	11.22	14.79	11.03	11.03	11.03	12.65
12.25	12.25	12.34	16.27	12.15	12.15	12.15	13.93
13.40	13.40	13.52	17.83	13.31	13.31	13.31	15.27
14.59	14.59	14.74	19.45	14.52	14.52	14.52	16.67
15.82	15.82	16.01	21.13	15.78	15.78	15.78	18.13
17.09	17.09	17.33	22.88	17.09	17.09	17.09	19.64
18.40	18.40	18.70	24.70	18.45	18.45	18.45	21.21
19.76	19.76	20.11	26.57	19.86	19.86	19.86	22.83
21.14	21.14	21.57	28.51	21.31	21.31	21.31	24.52
22.57	22.57	23.07	30.51	22.81	22.81	22.81	26.25
24.03	24.03	24.61	32.57	24.35	24.35	24.35	28.04
25.52	25.52	26.20	34.69	25.94	25.94	25.94	29.89
27.04	27.04	27.83	36.86	27.57	27.57	27.57	31.79
28.60	28.60	29.50	39.09	29.25	29.25	29.25	33.74
30.18	30.18	31.21	41.38	30.97	30.97	30.97	35.74
31.79	31.79	32.95	43.72	32.73	32.73	32.73	37.79
33.42	33.42	34.74	46.11	34.53	34.53	34.53	39.90
35.08	35.08	36.56	48.56	36.37	36.37	36.37	42.05
36.75	36.75	38.41	51.05	38.25	38.25	38.25	44.25
38.45	38.45	40.30	53.60	40.17	40.17	40.17	46.50
40.17	40.17	42.23	56.19	42.13	42.13	42.13	48.80
41.90	41.90	44.18	58.83	44.12	44.12	44.12	51.14
43.64	43.64	46.16	61.52	46.15	46.15	46.15	53.53
45.40	45.40	48.18	64.24	48.22	48.22	48.22	55.96
47.17	47.17	50.22	67.02	50.31	50.31	50.31	58.44
48.94	48.94	52.29	69.83	52.44	52.44	52.44	60.96
50.72	50.72	54.38	72.68	54.60	54.60	54.60	63.52
52.51	52.51	56.50	75.57	56.80	56.80	56.80	66.12
54.30	54.30	58.64	78.50	59.02	59.02	59.02	68.76
56.09	56.09	60.80	81.46	61.27	61.27	61.27	71.45
57.88	57.88	62.99	84.46	63.55	63.55	63.55	74.16
59.67	59.67	65.19	87.49	65.85	65.85	65.85	76.92
61.45	61.45	67.41	90.54	68.18	68.18	68.18	79.71
63.23	63.23	69.64	93.63	70.54	70.54	70.54	82.54
64.99	64.99	71.89	96.75	72.91	72.91	72.91	85.40
66.75	66.75	74.16	99.89	75.31	75.31	75.31	88.29
68.49	68.49	76.43	103.06	77.73	77.73	77.73	91.22
70.							

1.133	68	4080	43.62	131.36	38.22	142.37	35.48	143.47	38.10	166.47
1.150	69	4140	44.69	133.84	39.26	145.70	36.47	147.05	39.17	170.78
1.167	70	4200	45.77	136.29	40.30	149.04	37.47	150.63	40.26	175.12
1.183	71	4260	46.84	138.70	41.35	152.37	38.47	154.23	41.36	179.49
1.200	72	4320	47.92	141.06	42.42	155.70	39.49	157.84	42.48	183.88
1.217	73	4380	49.01	143.39	43.49	159.03	40.52	161.47	43.60	188.29
1.233	74	4440	50.09	145.68	44.57	162.36	41.56	165.10	44.74	192.73
1.250	75	4500	51.18	147.92	45.66	165.67	42.60	168.74	45.89	197.19
1.267	76	4560	52.26	150.12	46.76	168.98	43.66	172.38	47.05	201.67
1.283	77	4620	53.35	152.26	47.86	172.28	44.73	176.03	48.23	206.17
1.300	78	4680	54.43	154.36	48.97	175.56	45.80	179.69	49.41	210.69
1.317	79	4740	55.52	156.40	50.09	178.83	46.89	183.34	50.61	215.22
1.333	80	4800	56.60	158.39	51.22	182.08	47.98	187.00	51.82	219.76
1.350	81	4860	57.69	160.32	52.36	185.32	49.09	190.66	53.04	224.32
1.367	82	4920	58.77	162.20	53.50	188.54	50.20	194.31	54.27	228.89
1.383	83	4980	59.85	164.02	54.65	191.73	51.32	197.96	55.51	233.47
1.400	84	5040	60.92	165.78	55.80	194.91	52.45	201.60	56.77	238.06
1.417	85	5100	61.99	167.47	56.96	198.06	53.58	205.24	58.03	242.66
1.433	86	5160	63.06	169.10	58.13	201.19	54.73	208.87	59.30	247.26
1.450	87	5220	64.13	170.67	59.30	204.28	55.88	212.49	60.59	251.87
1.467	88	5280	65.19	172.17	60.48	207.35	57.04	216.10	61.88	256.48
1.483	89	5340	66.24	173.60	61.66	210.39	58.21	219.70	63.19	261.09
1.500	90	5400	67.29	174.97	62.84	213.40	59.38	223.29	64.50	265.70
1.517	91	5460	68.34	176.26	64.04	216.38	60.56	226.86	65.83	270.31
1.533	92	5520	69.37	177.49	65.23	219.32	61.75	230.41	67.16	274.92
1.550	93	5580	70.40	178.64	66.43	222.22	62.95	233.94	68.50	279.52
1.567	94	5640	71.43	179.72	67.63	225.09	64.15	237.46	69.86	284.12
1.583	95	5700	72.44	180.72	68.84	227.91	65.36	240.95	71.22	288.71
1.600	96	5760	73.45	181.66	70.05	230.70	66.57	244.43	72.59	293.29
1.617	97	5820	74.45	182.51	71.27	233.44	67.79	247.88	73.97	297.87
1.633	98	5880	75.44	183.29	72.48	236.14	69.02	251.30	75.36	302.43
1.650	99	5940	76.42	183.99	73.70	238.80	70.25	254.70	76.76	306.98
1.667	100	6000	77.39	184.62	74.92	241.41	71.49	258.07	78.16	311.51
1.683	101	6060	78.35	185.16	76.14	243.97	72.73	261.42	79.57	316.03
1.700	102	6120	79.30	185.63	77.37	246.48	73.98	264.73	80.99	320.54
1.717	103	6180	80.24	186.02	78.59	248.95	75.23	268.01	82.42	325.02
1.733	104	6240	81.17	186.33	79.82	251.36	76.49	271.26	83.86	329.49
1.750	105	6300	82.08	186.56	81.05	253.72	77.75	274.48	85.31	333.93
1.767	106	6360	82.98	186.71	82.28	256.02	79.02	277.66	86.76	338.35
1.783	107	6420	83.88	186.78	83.50	258.27	80.29	280.81	88.22	342.75
1.800	108	6480	84.75	186.77	84.73	260.47	81.56	283.91	89.68	347.12
1.817	109	6540	85.62	186.68	85.96	262.61	82.84	286.98	91.15	351.47
1.833	110	6600	86.47	186.51	87.19	264.69	84.12	290.01	92.63	355.78
1.850	111	6660	87.31	186.26	88.42	266.71	85.40	293.00	94.12	360.07
1.867	112	6720	88.13	185.93	89.65	268.67	86.69	295.94	95.61	364.33
1.883	113	6780	88.94	185.52	90.87	270.56	87.98	298.84	97.11	368.56
1.900	114	6840	89.73	185.04	92.10	272.40	89.27	301.70	98.62	372.75
1.917	115	6900	90.51	184.47	93.32	274.17	90.57	304.51	100.13	376.91
1.933	116	6960	91.27	183.83	94.54	275.88	91.86	307.28	101.64	381.03
1.950	117	7020	92.02	183.11	95.76	277.52	93.16	309.99	103.16	385.12
1.967	118	7080	92.75	182.31	96.97	279.10	94.46	312.66	104.69	389.17
1.983	119	7140	93.46	181.44	98.19	280.61	95.77	315.28	106.22	393.17
2.000	120	7200	94.16	180.49	99.40	282.06	97.07	317.85	107.76	397.14
2.017	121	7260	94.84	179.46	100.60	283.43	98.38	320.36	109.30	401.07
2.033	122	7320	95.50	178.37	101.81	284.74	99.68	322.82	110.84	404.95
2.050	123	7380	96.14	177.20	103.00	285.97	100.99	325.23	112.39	408.78
2.067	124	7440	96.77	175.95	104.20	287.14	102.30	327.58	113.95	412.58
2.083	125	7500	97.37	174.64	105.39	288.24	103.61	329.88	115.51	416.32
2.100	126	7560	97.96	173.26	106.58	289.26	104.92	332.12	117.07	420.02
2.117	127	7620	98.53	171.81	107.76	290.22	106.22	334.30	118.64	423.67
2.133	128	7680	99.08	170.29	108.94	291.10	107.53	336.43	120.21	427.26
2.150	129	7740	99.62	168.71	110.11	291.90	108.84	338.49	121.78	430.81
2.167	130	7800	100.13	167.06	111.27	292.64	110.15	340.50	123.35	434.30
2.183	131	7860	100.62	165.35	112.43	293.30	111.45	342.44	124.93	437.74
2.200	132	7920	101.09	163.58	113.59	293.89	112.76	344.33	126.52	441.13
2.217	133	7980	101.55	161.75	114.74	294.40	114.07	346.15	128.10	444.46
2.233	134	8040	101.98	159.86	115.88	294.84	115.37	347.90	129.69	447.73
2.250	135	8100	102.39	158.13	117.01	295.20	116.67	349.60	131.27	450.94
2.267	136	8160	102.78	156.23	118.14	295.49	117.97	351.23	132.87	454.10
2.283	137	8220	103.15	154.35	119.26	295.71	119.27	352.79	134.46	457.19
2.300	138	8280	103.50	152.49	120.37	295.85	120.56	354.29	136.05	460.23
2.317	139	8340	103.83	150.65	121.47	295.91	121.86	355.72	137.65	463.20

89.15	89.15	106.45	145.70	110.58	110.58	131.61	131.61
90.52	90.52	108.74	149.04	113.17	113.17	134.86	134.86
91.85	91.85	111.02	152.37	115.76	115.76	138.13	138.13
93.14	93.14	113.29	155.70	118.35	118.35	141.40	141.40
94.39	94.39	115.54	159.03	120.95	120.95	144.69	144.69
95.59	95.59	117.79	162.36	123.54	123.54	147.99	147.99
96.75	96.75	120.01	165.67	126.13	126.13	151.30	151.30
97.85	97.85	122.22	168.98	128.72	128.72	154.62	154.62
98.91	98.91	124.41	172.28	131.31	131.31	157.94	157.94
99.92	99.92	126.58	175.56	133.89	133.89	161.27	161.27
100.88	100.88	128.73	178.83	136.46	136.46	164.60	164.60
101.79	101.79	130.86	182.08	139.02	139.02	167.94	167.94
102.64	102.64	132.96	185.32	141.57	141.57	171.28	171.28
103.43	103.43	135.04	188.54	144.11	144.11	174.62	174.62
104.17	104.17	137.09	191.73	146.64	146.64	177.96	177.96
104.85	104.85	139.11	194.91	149.16	149.16	181.29	181.29
105.48	105.48	141.10	198.06	151.66	151.66	184.63	184.63
106.04	106.04	143.06	201.19	154.15	154.15	187.95	187.95
106.54	106.54	144.99	204.28	156.61	156.61	191.28	191.28
106.98	106.98	146.88	207.35	159.06	159.06	194.59	194.59
107.36	107.36	148.74	210.39	161.49	161.49	197.90	197.90
107.68	107.68	150.56	213.40	163.90	163.90	201.20	201.20
107.93	107.93	152.34	216.38	166.29	166.29	204.48	204.48
108.11	108.11	154.08	219.32	168.66	168.66	207.76	207.76
108.24	108.24	155.79	222.22	170.99	170.99	211.02	211.02
108.29	108.29	157.45	225.09	173.31	173.31	214.26	214.26
108.28	108.28	159.07	227.91	175.60	175.60	217.49	217.49
108.21	108.21	160.65	230.70	177.85	177.85	220.70	220.70
108.06	108.06	162.18	233.44	180.08	180.08	223.90	223.90
107.85	107.85	163.66	236.14	182.28	182.28	227.07	227.07
107.57	107.57	165.10	238.80	184.45	184.45	230.22	230.22
107.23	107.23	166.49	241.41	186.58	186.58	233.35	233.35
106.81	106.81	167.83	243.97	188.69	188.69	236.46	236.46
106.33	106.33	169.12	246.48	190.75	190.75	239.54	239.54
105.78	105.78	170.35	248.95	192.78	192.78	242.60	242.60
105.16	105.16	171.54	251.36	194.77	194.77	245.62	245.62
104.48	104.48	172.67	253.72	196.73	196.73	248.62	248.62
103.72	103.72	173.75	256.02	198.64	198.64	251.59	251.59
102.90	102.90	174.77	258.27	200.52	200.52	254.53	254.53
102.01	102.01	175.74	260.47	202.35	202.35	257.44	257.44
101.06	101.06	176.64	262.61	204.14	204.14	260.31	260.31
100.04	100.04	177.50	264.69	205.89	205.89	263.15	263.15
98.95	98.95	178.29					

2.333	140	8400	104.14	148.84	122.57	295.90	123.15	357.09	139.25	466.12
2.350	141	8460	104.42	147.05	123.66	295.81	124.43	358.38	140.84	468.96
2.367	142	8520	104.69	145.28	124.74	295.65	125.72	359.61	142.44	471.75
2.383	143	8580	104.93	143.53	125.81	295.42	127.00	360.78	144.04	474.46
2.400	144	8640	105.15	141.80	126.87	295.10	128.28	361.87	145.64	477.12
2.417	145	8700	105.35	140.10	127.93	294.72	129.55	362.89	147.24	479.70
2.433	146	8760	105.52	138.41	128.97	294.26	130.82	363.85	148.84	482.22
2.450	147	8820	105.68	136.75	130.01	293.72	132.09	364.73	150.45	484.67
2.467	148	8880	105.81	135.10	131.03	293.11	133.35	365.54	152.05	487.05
2.483	149	8940	105.92	133.47	132.04	292.43	134.61	366.29	153.65	489.36
2.500	150	9000	106.01	131.87	133.05	291.67	135.86	366.96	155.25	491.60
2.517	151	9060	106.08	130.28	134.04	290.84	137.11	367.56	156.85	493.76
2.533	152	9120	106.12	128.71	135.03	289.94	138.36	368.09	158.44	495.86
2.550	153	9180	106.15	127.16	136.00	288.97	139.60	368.55	160.04	497.88
2.567	154	9240	106.15	125.63	136.96	287.92	140.83	368.93	161.64	499.83
2.583	155	9300	106.12	124.12	137.91	286.81	142.06	369.25	163.23	501.71
2.600	156	9360	106.08	122.63	138.85	285.62	143.28	369.49	164.82	503.51
2.617	157	9420	106.01	121.15	139.77	284.36	144.49	369.66	166.41	505.24
2.633	158	9480	105.92	119.70	140.69	283.03	145.70	369.75	168.00	506.89
2.650	159	9540	105.81	118.25	141.59	281.64	146.91	369.78	169.59	508.46
2.667	160	9600	105.68	116.83	142.48	280.17	148.11	369.73	171.17	509.96
2.683	161	9660	105.52	115.43	143.36	278.64	149.30	369.61	172.75	511.38
2.700	162	9720	105.35	114.04	144.23	277.05	150.48	369.42	174.33	512.72
2.717	163	9780	105.15	112.66	145.08	275.38	151.66	369.16	175.91	513.99
2.733	164	9840	104.93	111.31	145.92	273.66	152.83	368.82	177.48	515.17
2.750	165	9900	104.68	109.97	146.74	271.87	153.99	368.41	179.05	516.28
2.767	166	9960	104.42	108.65	147.56	270.01	155.14	367.93	180.61	517.31
2.783	167	10020	104.13	107.34	148.36	268.10	156.29	367.38	182.18	518.26
2.800	168	10080	103.83	106.05	149.14	266.12	157.43	366.76	183.73	519.13
2.817	169	10140	103.50	104.77	149.91	264.08	158.56	366.06	185.29	519.92
2.833	170	10200	103.15	103.51	150.67	261.98	159.68	365.30	186.84	520.63
2.850	171	10260	102.78	102.26	151.41	259.83	160.79	364.46	188.38	521.26
2.867	172	10320	102.39	101.03	152.14	257.62	161.90	363.56	189.92	521.80
2.883	173	10380	101.98	99.82	152.86	255.35	163.00	362.58	191.46	522.27
2.900	174	10440	101.54	98.62	153.56	253.03	164.08	361.54	192.99	522.66
2.917	175	10500	101.09	97.43	154.24	250.99	165.16	360.42	194.52	522.97
2.933	176	10560	100.62	96.26	154.91	248.66	166.23	359.24	196.04	523.19
2.950	177	10620	100.12	95.10	155.57	246.35	167.29	357.99	197.55	523.33
2.967	178	10680	99.61	93.95	156.21	244.06	168.34	356.67	199.06	523.40
2.983	179	10740	99.08	92.82	156.83	241.79	169.38	355.29	200.56	523.38
3.000	180	10800	98.53	91.71	157.44	239.55	170.41	353.83	202.06	523.28
3.017	181	10860	97.96	90.60	158.03	237.33	171.43	352.31	203.55	523.09
3.033	182	10920	97.37	89.51	158.61	235.12	172.44	350.73	205.04	522.83
3.050	183	10980	96.76	88.44	159.17	232.94	173.44	349.08	206.52	522.49
3.067	184	11040	96.14	87.37	159.71	230.78	174.43	347.37	207.99	522.06
3.083	185	11100	95.49	86.32	160.24	228.63	175.40	345.59	209.45	521.56
3.100	186	11160	94.83	85.28	160.76	226.51	176.37	343.75	210.91	520.97
3.117	187	11220	94.15	84.26	161.25	224.41	177.33	341.85	212.36	520.30
3.133	188	11280	93.46	83.24	161.73	222.32	178.27	339.89	213.80	519.56
3.150	189	11340	92.74	82.24	162.20	220.26	179.20	337.86	215.24	518.73
3.167	190	11400	92.01	81.25	162.64	218.21	180.13	335.78	216.67	517.82
3.183	191	11460	91.27	80.27	163.07	216.19	181.04	333.64	218.09	516.84
3.200	192	11520	90.61	79.31	163.49	214.18	181.93	331.44	219.50	515.77
3.217	193	11580	89.85	78.35	163.88	212.19	182.82	329.18	220.90	514.62
3.233	194	11640	89.09	77.41	164.26	210.22	183.69	326.86	222.30	513.40
3.250	195	11700	88.34	76.48	164.62	208.27	184.56	324.49	223.69	512.10
3.267	196	11760	87.60	75.56	164.97	206.33	185.41	322.07	225.06	510.72
3.283	197	11820	86.86	74.65	165.29	204.42	186.24	319.59	226.43	509.26
3.300	198	11880	86.13	73.75	165.60	202.52	187.07	317.06	227.79	507.73
3.317	199	11940	85.40	72.86	165.90	200.64	187.88	314.87	229.15	506.12
3.333	200	12000	84.68	71.99	166.17	198.78	188.68	312.30	230.49	504.43
3.350	201	12060	83.96	71.12	166.43	196.93	189.46	309.76	231.82	502.67
3.367	202	12120	83.26	70.26	166.67	195.10	190.24	307.23	233.14	500.84
3.383	203	12180	82.55	69.42	166.89	193.29	191.00	304.73	234.46	498.93
3.400	204	12240	81.86	68.58	167.10	191.50	191.74	302.25	235.76	496.94
3.417	205	12300	81.17	67.76	167.28	189.72	192.48	299.78	237.05	494.88
3.433	206	12360	80.48	66.94	167.45	187.96	193.20	297.34	238.34	492.76
3.450	207	12420	79.80	66.14	167.60	186.21	193.90	294.92	239.61	490.55
3.467	208	12480	79.13	65.34	167.74	184.48	194.59	292.51	240.87	488.28
3.483	209	12540	78.46	64.55	167.85	182.77	195.27	290.13	242.12	485.94
3.500	210	12600	77.80	63.78	167.95	181.07	195.94	287.76	243.36	483.53
3.517	211	12660	77.15	63.01	168.03	179.39	196.59	285.42	244.59	481.05

42.63	42.63	172.15	295.81	233.95	233.95	328.12	328.12
40.59	40.59	170.91	295.65	233.89	233.89	329.30	329.30
38.60	38.60	169.60	295.42	233.77	233.77	330.42	330.42
36.66	36.66	168.23	295.10	233.59	233.59	331.47	331.47
34.75	34.75	166.79	294.72	233.34	233.34	332.46	332.46
32.89	32.89	165.29	294.26	233.02	233.02	333.37	333.37
31.07	31.07	163.72	293.72	232.64	232.64	334.22	334.22
29.29	29.29	162.08	293.11	232.19	232.19	335.00	335.00
27.55	27.55	160.39	292.43	231.68	231.68	335.71	335.71
25.86	25.86	158.63	291.67	231.09	231.09	336.35	336.35
24.20	24.20	156.80	290.84	230.45	230.45	336.92	336.92
22.59	22.59	154.92	289.94	229.73	229.73	337.42	337.42
21.02	21.02	152.97	288.97	228.95	228.95	337.84	337.84
19.49	19.49	150.96	287.92	228.10	228.10	338.20	338.20
18.00	18.00	148.90	286.81	227.19	227.19	338.48	338.48
16.55	16.55	146.77	285.62	226.21	226.21	338.69	338.69
15.14	15.14	144.59	284.36	225.16	225.16	338.82	338.82
13.77	13.77	142.34	283.03	224.05	224.05	338.88	338.88
12.44	12.44	140.05	0.00	222.87	222.87	338.87	338.87
11.15	11.15	137.69	0.00	221.63	221.63	338.79	338.79
9.90	9.90	135.28	0.00	220.32	220.32	338.62	338.62
8.69	8.69	132.82	0.00	218.94	218.94	338.39	338.39
7.52	7.52	130.31	0.00	217.50	217.50	338.08	338.08
6.38	6.38	127.74	0.00	215.99	215.99	337.69	337.69
5.29	5.29	125.12	0.00	214.42	214.42	337.23	337.23
4.23	4.23	122.46	0.00	212.79	212.79	336.70	336.70
3.20	3.20	119.74	0.00	211.09	211.09	336.08	336.08
2.22	2.22	116.98	0.00	209.33	209.33	335.39	335.39
1.27	1.27	114.17	0.00	207.51	207.51	334.63	334.63
0.36	0.36	111.31	0.00	205.62	205.62	333.79	333.79
-0.51	0.00	108.42	0.00	203.67	203.67	332.87	332.87
-1.35	0.00	105.48	0.00	201.66	201.66	331.88	331.88
-2.16	0.00	102.49	0.00	199.59	199.59	330.81	330.81
-2.93	0.00	99.47	0.00	197.46	197.46	329.67	329.67
-3.66	0.00	96.75	0.00	195.26	195.26	328.45	328.45
-4.36	0.00	93.75	0.00	193.01	193.01	327.15	327.15
-5.03	0.00	90.78	0.00	190.70	190.70	325.78	325.78
-5.66	0.00	87.86	0.00	188.33	188.33	324.34	324.34
-6.26	0.00	84.96	0.00	185.91	185.91	322.81	322.81
-6.82	0.00	82.11	0.00	183.42	183.42	321.21	321.21
-7.36	0.00	79.29	0.00	180.89	180.89	319.54	319.54
-7.86	0.00	76.51	0.00	178.29	178.29		

3.533	212	12720	76.50	62.25	168.09	177.73	197.22	283.09	245.81	478.50
3.550	213	12780	75.85	61.50	168.13	176.07	197.84	280.78	247.02	475.88
3.567	214	12840	75.21	60.76	168.16	174.44	198.45	278.49	248.21	473.20
3.583	215	12900	74.58	60.03	168.17	172.82	199.04	276.23	249.40	470.45
3.600	216	12960	73.95	59.31	168.16	171.22	199.62	273.97	250.57	467.63
3.617	217	13020	73.32	58.60	168.13	169.63	200.19	271.74	251.73	464.76
3.633	218	13080	72.71	57.89	168.08	168.05	200.74	269.53	252.88	461.81
3.650	219	13140	72.09	57.19	168.02	166.49	201.27	267.33	254.02	458.81
3.667	220	13200	71.48	56.51	167.94	164.94	201.79	265.15	255.14	455.75
3.683	221	13260	70.88	55.83	167.84	163.41	202.29	262.99	256.25	452.62
3.700	222	13320	70.28	55.15	167.72	161.90	202.78	260.85	257.35	449.44
3.717	223	13380	69.69	54.49	167.59	160.39	203.25	258.72	258.44	446.74
3.733	224	13440	69.10	53.83	167.43	158.90	203.71	256.61	259.51	443.50
3.750	225	13500	68.52	53.19	167.26	157.43	204.16	254.52	260.57	440.28
3.767	226	13560	67.94	52.55	167.07	155.97	204.58	252.44	261.62	437.08
3.783	227	13620	67.37	51.91	166.87	154.52	205.00	250.39	262.66	433.90
3.800	228	13680	66.80	51.29	166.64	153.08	205.39	248.35	263.68	430.75
3.817	229	13740	66.24	50.67	166.40	151.66	205.77	246.32	264.69	427.62
3.833	230	13800	65.68	50.06	166.14	150.25	206.14	244.31	265.69	424.51
3.850	231	13860	65.13	49.46	165.86	148.86	206.49	242.32	266.67	421.43
3.867	232	13920	64.58	48.86	165.57	147.48	206.82	240.35	267.64	418.37
3.883	233	13980	64.03	48.28	165.26	146.11	207.14	238.39	268.59	415.33
3.900	234	14040	63.49	47.70	164.93	144.75	207.45	236.45	269.53	412.31
3.917	235	14100	62.96	47.12	164.58	143.41	207.73	234.52	270.46	409.31
3.933	236	14160	62.43	46.55	164.22	142.07	208.00	232.61	271.37	406.34
3.950	237	14220	61.90	45.99	163.84	140.75	208.26	230.71	272.27	403.39
3.967	238	14280	61.38	45.44	163.44	139.45	208.50	228.83	273.15	400.45
3.983	239	14340	60.86	44.89	163.02	138.15	208.72	226.97	274.02	397.54
4.000	240	14400	60.35	44.35	162.59	136.87	208.93	225.12	274.88	394.66
4.017	241	14460	59.84	43.82	162.14	135.60	209.12	223.28	275.72	391.79
4.033	242	14520	59.33	43.29	161.68	134.34	209.29	221.46	276.54	388.94
4.050	243	14580	58.83	42.77	161.20	133.09	209.45	219.66	277.36	386.12
4.067	244	14640	58.34	42.26	160.70	131.86	209.59	217.87	278.15	383.31
4.083	245	14700	57.84	41.75	160.18	130.63	209.72	216.09	278.93	380.53
4.100	246	14760	57.36	41.25	159.65	129.42	209.83	214.33	279.70	377.76
4.117	247	14820	56.87	40.75	159.11	128.22	209.92	212.58	280.45	375.02
4.133	248	14880	56.39	40.26	158.54	127.03	210.00	210.85	281.18	372.29
4.150	249	14940	55.92	39.77	157.96	125.85	210.06	209.13	281.90	369.59
4.167	250	15000	55.45	39.30	157.37	124.68	210.10	207.43	282.61	366.90
4.183	251	15060	54.98	38.82	156.76	123.52	210.13	205.74	283.30	364.23
4.200	252	15120	54.51	38.36	156.13	122.37	210.15	204.06	283.97	361.59
4.217	253	15180	54.05	37.89	155.49	121.24	210.14	202.40	284.63	358.96
4.233	254	15240	53.60	37.44	154.84	120.11	210.12	200.75	285.27	356.35
4.250	255	15300	53.15	36.99	154.16	119.00	210.08	199.11	285.90	353.76
4.267	256	15360	52.70	36.54	153.48	117.89	210.03	197.49	286.51	351.19
4.283	257	15420	52.25	36.10	152.78	116.80	209.96	195.88	287.10	348.64
4.300	258	15480	51.81	35.67	152.06	115.71	209.88	194.28	287.68	346.11
4.317	259	15540	51.38	35.24	151.33	114.64	209.77	192.70	288.25	343.59
4.333	260	15600	50.94	34.82	150.58	113.57	209.66	191.13	288.79	341.10
4.350	261	15660	50.51	34.40	149.83	112.52	209.52	189.57	289.32	338.62
4.367	262	15720	50.09	33.98	149.05	111.47	209.37	188.02	289.84	336.16
4.383	263	15780	49.66	33.57	148.27	110.44	209.20	186.49	290.33	333.71
4.400	264	15840	49.25	33.17	147.46	109.41	209.02	184.97	290.81	331.29
4.417	265	15900	48.83	32.77	146.65	108.40	208.82	183.46	291.28	328.88
4.433	266	15960	48.42	32.38	145.82	107.39	208.61	181.97	291.73	326.49
4.450	267	16020	48.01	31.99	144.98	106.39	208.38	180.48	292.16	324.12
4.467	268	16080	47.61	31.60	144.13	105.41	208.13	179.01	292.57	321.77
4.483	269	16140	47.20	31.22	143.44	104.43	207.86	177.55	292.97	319.43
4.500	270	16200	46.81	30.85	142.57	103.46	207.59	176.11	293.35	317.11
4.517	271	16260	46.41	30.47	141.71	102.50	207.29	174.67	293.72	314.80
4.533	272	16320	46.02	30.11	140.86	101.55	206.98	173.25	294.06	312.52
4.550	273	16380	45.63	29.75	140.01	100.60	206.65	171.84	294.40	310.24
4.567	274	16440	45.25	29.39	139.16	99.67	206.31	170.44	294.71	307.99
4.583	275	16500	44.87	29.03	138.33	98.74	205.95	169.05	295.01	305.75
4.600	276	16560	44.49	28.68	137.49	97.83	205.58	167.67	295.29	303.53
4.617	277	16620	44.11	28.34	136.66	96.92	205.19	166.30	295.55	301.33
4.633	278	16680	43.74	28.00	135.84	96.02	204.78	164.95	295.80	299.14
4.650	279	16740	43.37	27.66	135.02	95.13	204.36	163.60	296.03	296.96
4.667	280	16800	43.01	27.33	134.21	94.24	203.93	162.27	296.24	294.81
4.683	281	16860	42.64	27.00	133.40	93.37	203.48	160.95	296.43	292.66
4.700	282	16920	42.28	26.67	132.59	92.50	203.01	159.63	296.61	290.54
4.717	283	16980	41.93	26.35	131.79	91.64	202.53	158.33	296.77	288.43

-14.35	0.00	7.94	0.00	82.94	82.94	228.86	228.86
-14.45	0.00	6.28	0.00	80.04	80.04	224.98	224.98
-14.55	0.00	4.65	0.00	77.18	77.18	221.05	221.05
-14.64	0.00	3.06	0.00	74.35	74.35	217.06	217.06
-14.73	0.00	1.50	0.00	71.55	71.55	213.03	213.03
-14.82	0.00	-0.03	0.00	68.79	68.79	208.94	208.94
-14.90	0.00	-1.53	0.00	66.06	66.06	204.80	204.80
-14.98	0.00	-2.99	0.00	63.36	63.36	200.61	200.61
-15.06	0.00	-4.43	0.00	60.70	60.70	196.37	196.37
-15.13	0.00	-5.83	0.00	58.06	58.06	192.09	192.09
-15.20	0.00	-7.19	0.00	55.46	55.46	188.31	188.31
-15.27	0.00	-8.53	0.00	52.90	52.90	183.99	183.99
-15.33	0.00	-9.83	0.00	50.36	50.36	179.70	179.70
-15.40	0.00	-11.11	0.00	47.86	47.86	175.45	175.45
-15.46	0.00	-12.35	0.00	45.39	45.39	171.24	171.24
-15.51	0.00	-13.56	0.00	42.95	42.95	167.07	167.07
-15.57	0.00	-14.74	0.00	40.55	40.55	162.93	162.93
-15.62	0.00	-15.89	0.00	38.17	38.17	158.83	158.83
-15.67	0.00	-17.01	0.00	35.83	35.83	154.76	154.76
-15.71	0.00	-18.09	0.00	33.52	33.52	150.73	150.73
-15.76	0.00	-19.15	0.00	31.25	31.25	146.73	146.73
-15.80	0.00	-20.18	0.00	29.00	29.00	142.78	142.78
-15.83	0.00	-21.18	0.00	26.79	26.79	138.85	138.85
-15.87	0.00	-22.14	0.00	24.60	24.60	134.97	134.97
-15.90	0.00	-23.08	0.00	22.45	22.45	131.12	131.12
-15.94	0.00	-23.99	0.00	20.33	20.33	127.30	127.30
-15.97	0.00	-24.87	0.00	18.25	18.25	123.52	123.52
-15.99	0.00	-25.72	0.00	16.19	16.19	119.78	119.78
-16.02	0.00	-26.54	0.00	14.16	14.16	116.07	116.07
-16.04	0.00	-27.34	0.00	12.17	12.17	112.40	112.40
-16.06	0.00	-28.10	0.00	10.21	10.21	108.76	108.76
-16.08	0.00	-28.84	0.00	8.27	8.27	105.16	105.16
-16.10	0.00	-29.55	0.00	6.37	6.37	101.59	101.59
-16.11	0.00	-30.23	0.00	4.50	4.50	98.06	98.06
-16.12	0.00	-30.89	0.00	2.66	2.66	94.57	94.57
-16.13	0.00	-31.52	0.00	0.85	0.85	91.11	91.11
-16.14	0.00	-32.12	0.00	-0.93	0.00	87.68	87.68
-16.15	0.00	-32.69	0.00	-2.68	0.00	84.29	84.29
-16.15	0.00	-33.24	0.00	-4.40	0.00	80.94	80.94
-16.16	0.00	-33.76	0.00	-6.09	0.00	77.61	77.61
-16.16	0.00	-34.25	0.00	-7.75	0.00	74.33	74.33
-16.16	0.00	-34.72	0.00	-9.37	0.00	71.08	71.08
-16.16	0.00	-35.17	0.00	-10.97	0.00	67.86	67.86
-16.16	0.00	-35.59	0.00	-12.54	0.00	64.68	64.68
-16.15	0.00	-35.98	0.00	-14.08	0.00	61.54	

4.733	284	17040	41.57	26.04	131.00	90.79	202.03	157.04	296.92	286.33
4.750	285	17100	41.22	25.72	130.21	89.95	201.52	155.76	297.04	284.25
4.767	286	17160	40.87	25.41	129.42	89.11	200.99	154.49	297.15	282.18
4.783	287	17220	40.53	25.11	128.64	88.29	200.45	153.23	297.24	280.13
4.800	288	17280	40.19	24.81	127.87	87.47	199.90	151.98	297.32	278.10
4.817	289	17340	39.85	24.51	127.10	86.65	199.32	150.75	297.38	276.08
4.833	290	17400	39.51	24.21	126.33	85.85	198.74	149.52	297.42	274.07
4.850	291	17460	39.18	23.92	125.57	85.05	198.14	148.30	297.44	272.08
4.867	292	17520	38.85	23.63	124.81	84.26	197.52	147.09	297.45	270.10
4.883	293	17580	38.52	23.35	124.06	83.48	196.89	145.89	297.43	268.14
4.900	294	17640	38.20	23.07	123.31	82.70	196.25	144.70	297.41	266.19
4.917	295	17700	37.87	22.79	122.57	81.94	195.59	143.52	297.36	264.26
4.933	296	17760	37.56	22.52	121.83	81.18	194.92	142.35	297.30	262.34
4.950	297	17820	37.24	22.24	121.09	80.42	194.24	141.19	297.22	260.43
4.967	298	17880	36.92	21.98	120.36	79.68	193.54	140.04	297.12	258.54
4.983	299	17940	36.61	21.71	119.64	78.94	192.82	138.90	297.01	256.66
5.000	300	18000	36.30	21.45	118.91	78.20	192.10	137.77	296.87	254.80
5.017	301	18060	36.00	21.19	118.20	77.48	191.36	136.65	296.73	252.94
5.033	302	18120	35.69	20.94	117.48	76.76	190.60	135.53	296.56	251.11
5.050	303	18180	35.39	20.69	116.78	76.04	189.84	134.43	296.38	249.28
5.067	304	18240	35.10	20.44	116.07	75.34	189.06	133.33	296.18	247.47
5.083	305	18300	34.80	20.19	115.37	74.64	188.27	132.24	295.96	245.67
5.100	306	18360	34.51	19.95	114.68	73.95	187.46	131.17	295.72	243.89
5.117	307	18420	34.21	19.71	113.99	73.26	186.64	130.10	295.47	242.12
5.133	308	18480	33.93	19.47	113.30	72.58	185.81	129.04	295.20	240.36
5.150	309	18540	33.64	19.24	112.61	71.90	184.97	127.99	294.92	238.61
5.167	310	18600	33.36	19.01	111.94	71.24	184.11	126.94	294.62	236.88
5.183	311	18660	33.07	18.78	111.26	70.58	183.24	125.91	294.30	235.16
5.200	312	18720	32.80	18.55	110.59	69.92	182.36	124.88	293.96	233.45

-15.50	0.00	-40.26	0.00	-45.76	0.00	-12.79	0.00
-15.46	0.00	-40.31	0.00	-46.50	0.00	-14.97	0.00
-15.42	0.00	-40.36	0.00	-47.22	0.00	-17.11	0.00
-15.38	0.00	-40.40	0.00	-47.91	0.00	-19.22	0.00
-15.34	0.00	-40.44	0.00	-48.58	0.00	-21.30	0.00
-15.30	0.00	-40.48	0.00	-49.22	0.00	-23.35	0.00
-15.26	0.00	-40.52	0.00	-49.84	0.00	-25.36	0.00
-15.22	0.00	-40.55	0.00	-50.43	0.00	-27.34	0.00
-15.17	0.00	-40.58	0.00	-51.00	0.00	-29.29	0.00
-15.13	0.00	-40.60	0.00	-51.55	0.00	-31.21	0.00
-15.08	0.00	-40.63	0.00	-52.07	0.00	-33.10	0.00
-15.04	0.00	-40.65	0.00	-52.57	0.00	-34.96	0.00
-14.99	0.00	-40.67	0.00	-53.04	0.00	-36.79	0.00
-14.95	0.00	-40.69	0.00	-53.50	0.00	-38.58	0.00
-14.90	0.00	-40.70	0.00	-53.92	0.00	-40.34	0.00
-14.85	0.00	-40.71	0.00	-54.33	0.00	-42.08	0.00
-14.80	0.00	-40.72	0.00	-54.71	0.00	-43.78	0.00
-14.76	0.00	-40.73	0.00	-55.07	0.00	-45.45	0.00
-14.71	0.00	-40.73	0.00	-55.41	0.00	-47.09	0.00
-14.66	0.00	-40.73	0.00	-55.73	0.00	-48.70	0.00
-14.61	0.00	-40.73	0.00	-56.02	0.00	-50.29	0.00
-14.56	0.00	-40.73	0.00	-56.29	0.00	-51.84	0.00
-14.51	0.00	-40.73	0.00	-56.54	0.00	-53.36	0.00
-14.45	0.00	-40.72	0.00	-56.77	0.00	-54.85	0.00
-14.40	0.00	-40.71	0.00	-56.98	0.00	-56.31	0.00
-14.35	0.00	-40.70	0.00	-57.17	0.00	-57.74	0.00
-14.30	0.00	-40.69	0.00	-57.33	0.00	-59.14	0.00
-14.25	0.00	-40.67	0.00	-57.48	0.00	-60.51	0.00
-14.19	0.00	-40.65	0.00	-57.60	0.00	-61.86	0.00