

# Minimum Radius of Curvature

**API:** 30-025-52957      **Well:** Burke State Com 110H      **WH Lat :** 32.254639  
**Operator:** Matador Resources      **Area:** Jal, NM      **Long :** -103.395281  
**Rig:**      **Type:** U-Lateral      **Magnetic Declination:** 6.12  
**TD:** 20,379'      **Plane of Proposal:** 359.46

Measured Depth Ft	Drift Angle Deg	Azimuth Direction Deg	Course Length Ft	TVD Ft	Vertical Section Ft	COORDINATES		CLOSURE		Dog Leg Severity Deg/100'	Build / Drop Deg/100'	Left / Right Deg/100'
						N-S Ft	E-W Ft	Distance FT	Direction Deg			
0.00	0.00	0.00		0.0	0.00	0.00	0.00	0.00	0.00			
100	0.00	0.00	100	100.0	0.00	0.00	0.00	0.00	#DIV/0!	0.00		
200	0.00	0.00	100	200.0	0.00	0.00	0.00	0.00	#DIV/0!	0.00		
300	0.00	0.00	100	300.0	0.00	0.00	0.00	0.00	#DIV/0!	0.00		
400	0.00	0.00	100	400.0	0.00	0.00	0.00	0.00	#DIV/0!	0.00		
500	0.00	0.00	100	500.0	0.00	0.00	0.00	0.00	#DIV/0!	0.00		
600	0.00	0.00	100	600.0	0.00	0.00	0.00	0.00	#DIV/0!	0.00		
700	0.00	0.00	100	700.0	0.00	0.00	0.00	0.00	#DIV/0!	0.00		
800	0.00	0.00	100	800.0	0.00	0.00	0.00	0.00	#DIV/0!	0.00		
900	0.00	0.00	100	900.0	0.00	0.00	0.00	0.00	#DIV/0!	0.00		
1000	0.00	0.00	100	1000.0	0.00	0.00	0.00	0.00	#DIV/0!	0.00		
1100	2.00	194.78	100	1100.0	-1.68	-1.69	-0.45	1.75	194.78	2.00	2.00	194.78
1200	4.00	194.78	100	1199.8	-6.73	-6.75	-1.78	6.98	194.78	2.00	2.00	0.00
1282	5.63	194.78	82	1281.0	-13.33	-13.36	-3.53	13.82	194.78	2.00	2.00	0.00
1300	6.00	194.78	19	1299.5	-15.14	-15.17	-4.00	15.69	194.78	2.00	2.00	0.00
1400	8.00	194.78	100	1398.7	-26.89	-26.96	-7.11	27.88	194.78	2.00	2.00	0.00
1500	8.00	194.78	100	1497.7	-40.31	-40.41	-10.66	41.80	194.78	0.00	0.00	0.00
1600	8.00	194.78	100	1596.8	-53.73	-53.87	-14.21	55.71	194.78	0.00	0.00	0.00
1700	8.00	194.78	100	1695.8	-67.16	-67.33	-17.76	69.63	194.78	0.00	0.00	0.00
1800	8.00	194.78	100	1794.8	-80.58	-80.78	-21.31	83.55	194.78	0.00	0.00	0.00
1900	8.00	194.78	100	1893.8	-94.00	-94.24	-24.86	97.47	194.78	0.00	0.00	0.00
2000	8.00	194.78	100	1992.9	-107.43	-107.70	-28.41	111.38	194.78	0.00	0.00	0.00
2100	8.00	194.78	100	2091.9	-120.85	-121.16	-31.97	125.30	194.78	0.00	0.00	0.00
2200	8.00	194.78	100	2190.9	-134.27	-134.61	-35.52	139.22	194.78	0.00	0.00	0.00
2300	8.00	194.78	100	2289.9	-147.69	-148.07	-39.07	153.14	194.78	0.00	0.00	0.00
2400	8.00	194.78	100	2389.0	-161.12	-161.53	-42.62	167.05	194.78	0.00	0.00	0.00
2500	8.00	194.78	100	2488.0	-174.54	-174.98	-46.17	180.97	194.78	0.00	0.00	0.00
2600	8.00	194.78	100	2587.0	-187.96	-188.44	-49.72	194.89	194.78	0.00	0.00	0.00
2700	8.00	194.78	100	2686.1	-201.39	-201.90	-53.27	208.80	194.78	0.00	0.00	0.00
2800	8.00	194.78	100	2785.1	-214.81	-215.35	-56.82	222.72	194.78	0.00	0.00	0.00
2900	8.00	194.78	100	2884.1	-228.23	-228.81	-60.37	236.64	194.78	0.00	0.00	0.00
3000	8.00	194.78	100	2983.1	-241.65	-242.27	-63.92	250.56	194.78	0.00	0.00	0.00
3100	8.00	194.78	100	3082.2	-255.08	-255.72	-67.47	264.47	194.78	0.00	0.00	0.00
3116	8.00	194.78	16	3097.8	-257.20	-257.85	-68.03	266.67	194.78	0.00	0.00	0.00
3200	6.74	194.78	84	3181.3	-267.61	-268.29	-70.79	277.47	194.78	1.50	-1.50	0.00
3300	5.24	194.78	100	3280.8	-277.68	-278.38	-73.45	287.91	194.78	1.50	-1.50	0.00
3400	3.74	194.78	100	3380.4	-285.23	-285.95	-75.45	295.74	194.78	1.50	-1.50	0.00
3500	2.24	194.78	100	3480.3	-290.26	-291.00	-76.78	300.95	194.78	1.50	-1.50	0.00
3600	0.74	194.78	100	3580.3	-292.77	-293.51	-77.44	303.55	194.78	1.50	-1.50	0.00
3649	0.00	0.00	49	3629.4	-293.07	-293.82	-77.52	303.87	194.78	1.51	0.00	
3700	0.00	0.00	51	3680.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
3800	0.00	0.00	100	3780.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
3900	0.00	0.00	100	3880.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
4000	0.00	0.00	100	3980.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
4100	0.00	0.00	100	4080.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
4200	0.00	0.00	100	4180.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
4300	0.00	0.00	100	4280.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
4400	0.00	0.00	100	4380.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
4500	0.00	0.00	100	4480.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
4600	0.00	0.00	100	4580.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
4700	0.00	0.00	100	4680.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
4800	0.00	0.00	100	4780.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
4900	0.00	0.00	100	4880.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
5000	0.00	0.00	100	4980.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
5100	0.00	0.00	100	5080.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
5200	0.00	0.00	100	5180.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
5300	0.00	0.00	100	5280.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
5400	0.00	0.00	100	5380.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	

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**Rig:**      **Type:** U-Lateral      **Magnetic Declination:** 6.12  
**TD:** 20,379'      **Plane of Proposal:** 359.46

Measured Depth Ft	Drift Angle Deg	Azimuth Direction Deg	Course Length Ft	TVD Ft	Vertical Section Ft	COORDINATES		CLOSURE		Dog Leg Severity Deg/100'	Build / Drop Deg/100'	Left / Right Deg/100'
						N-S Ft	E-W Ft	Distance FT	Direction Deg			
5500	0.00	0.00	100	5480.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
5600	0.00	0.00	100	5580.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
5700	0.00	0.00	100	5680.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
5800	0.00	0.00	100	5780.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
5900	0.00	0.00	100	5880.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
6000	0.00	0.00	100	5980.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
6100	0.00	0.00	100	6080.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
6200	0.00	0.00	100	6180.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
6300	0.00	0.00	100	6280.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
6400	0.00	0.00	100	6380.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
6500	0.00	0.00	100	6480.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
6600	0.00	0.00	100	6580.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
6700	0.00	0.00	100	6680.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
6800	0.00	0.00	100	6780.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
6900	0.00	0.00	100	6880.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
7000	0.00	0.00	100	6980.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
7100	0.00	0.00	100	7080.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
7200	0.00	0.00	100	7180.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
7300	0.00	0.00	100	7280.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
7400	0.00	0.00	100	7380.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
7500	0.00	0.00	100	7480.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
7600	0.00	0.00	100	7580.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
7700	0.00	0.00	100	7680.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
7800	0.00	0.00	100	7780.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
7900	0.00	0.00	100	7880.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
8000	0.00	0.00	100	7980.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
8100	0.00	0.00	100	8080.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
8200	0.00	0.00	100	8180.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
8300	0.00	0.00	100	8280.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
8400	0.00	0.00	100	8380.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
8500	0.00	0.00	100	8480.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
8600	0.00	0.00	100	8580.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
8700	0.00	0.00	100	8680.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
8800	0.00	0.00	100	8780.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
8900	0.00	0.00	100	8880.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
9000	0.00	0.00	100	8980.3	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
9098	0.00	0.00	98	9078.0	-293.07	-293.82	-77.52	303.87	194.78	0.00	0.00	
9100	0.23	359.45	2	9080.3	-293.07	-293.81	-77.52	303.87	194.78	10.00	10.00	23.91
9200	10.23	359.45	100	9179.7	-283.96	-284.71	-77.61	295.10	195.25	10.00	10.00	0.00
9300	20.23	359.45	100	9276.1	-257.73	-258.47	-77.86	269.95	196.76	10.00	10.00	0.00
9400	30.23	359.45	100	9366.4	-215.16	-215.90	-78.27	229.65	199.93	10.00	10.00	0.00
9500	40.23	359.45	100	9448.0	-157.54	-158.29	-78.82	176.83	206.47	10.00	10.00	0.00
9600	50.23	359.45	100	9518.4	-86.64	-87.39	-79.50	118.14	222.29	10.00	10.00	0.00
9700	60.23	359.45	100	9575.3	-4.60	-5.36	-80.29	80.47	266.18	10.00	10.00	0.00
9800	70.23	359.45	100	9617.2	86.08	85.32	-81.16	117.76	316.43	10.00	10.00	0.00
9900	80.23	359.45	100	9642.6	182.66	181.89	-82.09	199.56	335.71	10.00	10.00	0.00
9998	90.00	359.45	98	9650.9	279.89	279.12	-83.02	291.20	343.44	10.00	10.00	0.00
9998	90.01	359.45	1	9650.9	280.59	279.82	-83.03	291.87	343.47	1.43	1.43	0.00
10000	90.01	359.45	2	9650.9	282.19	281.42	-83.04	293.41	343.56	0.00	0.00	0.00
10100	90.01	359.45	100	9650.9	382.19	381.41	-84.00	390.55	347.58	0.00	0.00	0.00
10200	90.01	359.45	100	9650.9	482.19	481.41	-84.96	488.85	349.99	0.00	0.00	0.00
10300	90.01	359.45	100	9650.9	582.19	581.40	-85.92	587.72	351.59	0.00	0.00	0.00
10400	90.01	359.45	100	9650.9	682.19	681.40	-86.88	686.91	352.73	0.00	0.00	0.00
10500	90.01	359.45	100	9650.8	782.19	781.39	-87.84	786.31	353.59	0.00	0.00	0.00
10600	90.01	359.45	100	9650.8	882.19	881.39	-88.80	885.85	354.25	0.00	0.00	0.00
10700	90.01	359.45	100	9650.8	982.19	981.38	-89.76	985.48	354.77	0.00	0.00	0.00
10800	90.01	359.45	100	9650.8	1082.19	1081.38	-90.72	1085.18	355.20	0.00	0.00	0.00
10900	90.01	359.45	100	9650.8	1182.19	1181.37	-91.68	1184.93	355.56	0.00	0.00	0.00

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						N-S Ft	E-W Ft	Distance FT	Direction Deg			
11000	90.01	359.45	100	9650.8	1282.19	1281.37	-92.64	1284.71	355.86	0.00	0.00	0.00
11100	90.01	359.45	100	9650.7	1382.19	1381.36	-93.60	1384.53	356.12	0.00	0.00	0.00
11200	90.01	359.45	100	9650.7	1482.19	1481.36	-94.56	1484.37	356.35	0.00	0.00	0.00
11300	90.01	359.45	100	9650.7	1582.19	1581.36	-95.52	1584.24	356.54	0.00	0.00	0.00
11400	90.01	359.45	100	9650.7	1682.19	1681.35	-96.48	1684.12	356.72	0.00	0.00	0.00
11500	90.01	359.45	100	9650.7	1782.19	1781.35	-97.44	1784.01	356.87	0.00	0.00	0.00
11600	90.01	359.45	100	9650.6	1882.19	1881.34	-98.40	1883.91	357.01	0.00	0.00	0.00
11700	90.01	359.45	100	9650.6	1982.19	1981.34	-99.36	1983.83	357.13	0.00	0.00	0.00
11800	90.01	359.45	100	9650.6	2082.19	2081.33	-100.32	2083.75	357.24	0.00	0.00	0.00
11900	90.01	359.45	100	9650.6	2182.19	2181.33	-101.28	2183.68	357.34	0.00	0.00	0.00
12000	90.01	359.45	100	9650.6	2282.19	2281.32	-102.24	2283.61	357.43	0.00	0.00	0.00
12100	90.01	359.45	100	9650.6	2382.19	2381.32	-103.20	2383.55	357.52	0.00	0.00	0.00
12200	90.01	359.45	100	9650.5	2482.19	2481.31	-104.16	2483.50	357.60	0.00	0.00	0.00
12300	90.01	359.45	100	9650.5	2582.19	2581.31	-105.12	2583.45	357.67	0.00	0.00	0.00
12400	90.01	359.45	100	9650.5	2682.19	2681.30	-106.08	2683.40	357.73	0.00	0.00	0.00
12500	90.01	359.45	100	9650.5	2782.19	2781.30	-107.04	2783.36	357.80	0.00	0.00	0.00
12600	90.01	359.45	100	9650.5	2882.19	2881.30	-108.00	2883.32	357.85	0.00	0.00	0.00
12700	90.01	359.45	100	9650.5	2982.19	2981.29	-108.96	2983.28	357.91	0.00	0.00	0.00
12800	90.01	359.45	100	9650.4	3082.19	3081.29	-109.92	3083.25	357.96	0.00	0.00	0.00
12900	90.01	359.45	100	9650.4	3182.19	3181.28	-110.88	3183.21	358.00	0.00	0.00	0.00
13000	90.01	359.45	100	9650.4	3282.19	3281.28	-111.84	3283.18	358.05	0.00	0.00	0.00
13100	90.01	359.45	100	9650.4	3382.19	3381.27	-112.80	3383.15	358.09	0.00	0.00	0.00
13200	90.01	359.45	100	9650.4	3482.19	3481.27	-113.76	3483.13	358.13	0.00	0.00	0.00
13300	90.01	359.45	100	9650.4	3582.19	3581.26	-114.72	3583.10	358.17	0.00	0.00	0.00
13400	90.01	359.45	100	9650.3	3682.19	3681.26	-115.68	3683.08	358.20	0.00	0.00	0.00
13500	90.01	359.45	100	9650.3	3782.19	3781.25	-116.64	3783.05	358.23	0.00	0.00	0.00
13600	90.01	359.45	100	9650.3	3882.19	3881.25	-117.60	3883.03	358.26	0.00	0.00	0.00
13700	90.01	359.45	100	9650.3	3982.19	3981.24	-118.56	3983.01	358.29	0.00	0.00	0.00
13800	90.01	359.45	100	9650.3	4082.19	4081.24	-119.52	4082.99	358.32	0.00	0.00	0.00
13896	90.01	359.45	96	9650.2	4178.39	4177.44	-120.44	4179.17	358.35	0.00	0.00	0.00
13900	90.01	359.78	4	9650.2	4182.19	4181.24	-120.47	4182.97	358.35	8.68	0.00	8.68
14000	90.01	8.48	100	9650.2	4281.76	4280.88	-113.27	4282.38	358.48	8.70	0.00	8.26
14100	90.01	17.18	100	9650.2	4378.95	4378.29	-91.09	4379.24	358.81	8.70	0.00	8.70
14200	90.01	25.87	100	9650.2	4471.54	4471.23	-54.43	4471.56	359.30	8.69	0.00	8.69
14300	90.00	34.57	100	9650.2	4557.39	4557.55	-4.15	4557.56	359.95	8.70	-0.01	8.70
14400	90.00	43.27	100	9650.2	4634.52	4635.28	58.61	4635.65	0.72	8.70	0.00	8.70
14500	90.00	51.97	100	9650.2	4701.16	4702.62	132.41	4704.48	1.61	8.70	0.00	8.70
14600	89.99	60.67	100	9650.2	4755.78	4758.02	215.55	4762.90	2.59	8.70	-0.01	8.70
14700	89.99	69.37	100	9650.2	4797.11	4800.21	306.11	4809.96	3.65	8.70	0.00	8.70
14800	89.99	78.07	100	9650.2	4824.22	4828.22	402.00	4844.93	4.76	8.70	0.00	8.70
14900	89.99	86.76	100	9650.2	4836.47	4841.41	501.03	4867.26	5.91	8.69	0.00	8.69
14933	89.99	89.60	33	9650.3	4837.20	4842.44	533.61	4871.75	6.29	8.71	0.00	8.71
15000	89.99	95.44	67	9650.3	4833.60	4839.48	600.92	4876.64	7.08	8.66	0.00	8.66
15100	89.99	104.10	100	9650.3	4815.72	4822.53	699.38	4872.97	8.25	8.66	0.00	8.66
15200	89.99	112.76	100	9650.3	4783.24	4790.94	794.16	4856.32	9.41	8.66	0.00	8.66
15300	90.00	121.43	100	9650.3	4736.90	4745.44	883.10	4826.91	10.54	8.67	0.01	8.67
15400	90.00	130.09	100	9650.3	4677.76	4687.05	964.17	4785.20	11.62	8.66	0.00	8.66
15500	90.00	138.75	100	9650.3	4607.17	4617.13	1035.52	4731.83	12.64	8.66	0.00	8.66
15600	90.00	147.41	100	9650.3	4526.73	4537.26	1095.53	4667.64	13.57	8.66	0.00	8.66
15700	90.01	156.07	100	9650.3	4438.29	4449.26	1142.84	4593.69	14.41	8.66	0.01	8.66
15800	90.01	164.70	100	9650.3	4343.87	4355.15	1176.38	4511.23	15.12	8.63	0.00	8.63
15900	90.01	173.40	100	9650.3	4245.61	4257.07	1195.35	4421.71	15.68	8.70	0.00	8.70
15969	90.01	179.36	69	9650.3	4176.94	4188.44	1199.69	4356.86	15.98	8.66	0.00	8.66
15974	90.00	179.45	5	9650.3	4172.14	4183.64	1199.74	4352.26	16.00	1.89	-0.21	1.87
16000	90.00	179.45	26	9650.3	4145.74	4157.24	1200.00	4326.96	16.10	0.00	0.00	0.00
16100	90.00	179.45	100	9650.3	4045.74	4057.24	1200.96	4231.25	16.49	0.00	0.00	0.00
16200	90.00	179.45	100	9650.3	3945.74	3957.25	1201.92	4135.75	16.89	0.00	0.00	0.00
16300	90.00	179.45	100	9650.3	3845.74	3857.25	1202.88	4040.46	17.32	0.00	0.00	0.00

# Minimum Radius of Curvature

**API: 30-025-52957**      **Well: Burke State Com 110H**      **WH Lat : 32.254639**  
**Operator: Matador Resources**      **Area: Jal, NM**      **Long : -103.395281**  
**Rig:**      **Type: U-Lateral**      **Magnetic Declination: 6.12**  
**TD: 20,379'**      **Plane of Proposal: 359.46**

Measured Depth Ft	Drift Angle Deg	Azimuth Direction Deg	Course Length Ft	TVD Ft	Vertical Section Ft	COORDINATES		CLOSURE		Dog Leg Severity Deg/100'	Build / Drop Deg/100'	Left / Right Deg/100'
						N-S Ft	E-W Ft	Distance FT	Direction Deg			
16400	90.00	179.45	100	9650.3	3745.74	3757.26	1203.84	3945.40	17.77	0.00	0.00	0.00
16500	90.00	179.45	100	9650.3	3645.74	3657.26	1204.80	3850.60	18.23	0.00	0.00	0.00
16600	90.00	179.45	100	9650.3	3545.74	3557.27	1205.76	3756.06	18.72	0.00	0.00	0.00
16700	90.00	179.45	100	9650.3	3445.74	3457.27	1206.72	3661.81	19.24	0.00	0.00	0.00
16800	90.00	179.45	100	9650.3	3345.74	3357.27	1207.68	3567.88	19.78	0.00	0.00	0.00
16900	90.00	179.45	100	9650.3	3245.74	3257.28	1208.64	3474.29	20.36	0.00	0.00	0.00
17000	90.00	179.45	100	9650.3	3145.74	3157.28	1209.60	3381.06	20.96	0.00	0.00	0.00
17100	90.00	179.45	100	9650.3	3045.74	3057.29	1210.56	3288.23	21.60	0.00	0.00	0.00
17200	90.00	179.45	100	9650.3	2945.74	2957.29	1211.52	3195.83	22.28	0.00	0.00	0.00
17300	90.00	179.45	100	9650.3	2845.74	2857.30	1212.48	3103.91	22.99	0.00	0.00	0.00
17400	90.00	179.45	100	9650.3	2745.74	2757.30	1213.44	3012.50	23.75	0.00	0.00	0.00
17500	90.00	179.45	100	9650.3	2645.74	2657.31	1214.40	2921.65	24.56	0.00	0.00	0.00
17600	90.00	179.45	100	9650.3	2545.74	2557.31	1215.36	2831.42	25.42	0.00	0.00	0.00
17700	90.00	179.45	100	9650.3	2445.74	2457.32	1216.32	2741.87	26.33	0.00	0.00	0.00
17800	90.00	179.45	100	9650.3	2345.74	2357.32	1217.28	2653.06	27.31	0.00	0.00	0.00
17900	90.00	179.45	100	9650.3	2245.74	2257.33	1218.24	2565.08	28.35	0.00	0.00	0.00
18000	90.00	179.45	100	9650.3	2145.74	2157.33	1219.20	2478.01	29.47	0.00	0.00	0.00
18100	90.00	179.45	100	9650.3	2045.74	2057.33	1220.16	2391.95	30.67	0.00	0.00	0.00
18200	90.00	179.45	100	9650.3	1945.74	1957.34	1221.12	2307.01	31.96	0.00	0.00	0.00
18300	90.00	179.45	100	9650.3	1845.74	1857.34	1222.08	2223.33	33.34	0.00	0.00	0.00
18400	90.00	179.45	100	9650.3	1745.74	1757.35	1223.04	2141.05	34.84	0.00	0.00	0.00
18500	90.00	179.45	100	9650.3	1645.74	1657.35	1224.00	2060.34	36.45	0.00	0.00	0.00
18600	90.00	179.45	100	9650.3	1545.74	1557.36	1224.96	1981.38	38.19	0.00	0.00	0.00
18700	90.00	179.45	100	9650.3	1445.74	1457.36	1225.91	1904.41	40.07	0.00	0.00	0.00
18800	90.00	179.45	100	9650.3	1345.74	1357.37	1226.87	1829.66	42.11	0.00	0.00	0.00
18900	90.00	179.45	100	9650.3	1245.74	1257.37	1227.83	1757.43	44.32	0.00	0.00	0.00
19000	90.00	179.45	100	9650.3	1145.74	1157.38	1228.79	1688.03	46.71	0.00	0.00	0.00
19100	90.00	179.45	100	9650.3	1045.74	1057.38	1229.75	1621.84	49.31	0.00	0.00	0.00
19200	90.00	179.45	100	9650.3	945.74	957.39	1230.71	1559.24	52.12	0.00	0.00	0.00
19300	90.00	179.45	100	9650.3	845.74	857.39	1231.67	1500.71	55.16	0.00	0.00	0.00
19400	90.00	179.45	100	9650.3	745.74	757.39	1232.63	1446.73	58.43	0.00	0.00	0.00
19500	90.00	179.45	100	9650.3	645.74	657.40	1233.59	1397.83	61.95	0.00	0.00	0.00
19600	90.00	179.45	100	9650.3	545.74	557.40	1234.55	1354.56	65.70	0.00	0.00	0.00
19700	90.00	179.45	100	9650.3	445.74	457.41	1235.51	1317.47	69.68	0.00	0.00	0.00
19800	90.00	179.45	100	9650.3	345.74	357.41	1236.47	1287.09	73.88	0.00	0.00	0.00
19900	90.00	179.45	100	9650.3	245.74	257.42	1237.43	1263.93	78.25	0.00	0.00	0.00
20000	90.00	179.45	100	9650.3	145.74	157.42	1238.39	1248.36	82.76	0.00	0.00	0.00
20100	90.00	179.45	100	9650.3	45.74	57.43	1239.35	1240.68	87.35	0.00	0.00	0.00
20200	90.00	179.45	100	9650.3	-54.26	-42.57	1240.31	1241.04	91.97	0.00	0.00	0.00
20300	90.00	179.45	100	9650.3	-154.26	-142.56	1241.27	1249.43	96.55	0.00	0.00	0.00
20379	90.00	179.45	79	9650.3	-233.46	-221.76	1242.03	1261.68	100.12	0.00	0.00	0.00