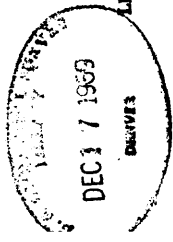


69-137



PRINCIPAL FACTS FOR GRAVITY STATIONS IN
LEMHI AND BIRCH CREEK VALLEYS, LEMHI COUNTY, IDAHO
GRAVITY DATA COLLECTED AND COMPILED BY

W. T. KINOSHITA, W. E. DAVIS, AND D. L. PETERSON

ABBREVIATIONS USED ABOVE THE TABLES OF PRINCIPAL FACTS ARE EXPLAINED BELOW:

LEADORE IDA	PROJECT AREA
LEMHI VALLEY IDA	
WOOL AIRP BITT	OBSERVED GRAVITY DATUM AT AIRPORT BASE STATION WA 123, BUTTE, MONTANA (BEHRENDT AND WOOLLARD, 1961).
GBV = 980012.99	GRAVITY BASE VALUE IN MILLIGALS FOR THE LOCAL BASE STATION USED FOR THIS SURVEY. LOCATION OF BASE IS ON U.S.G.S. BENCHMARK STAMPED "R 1 1930" AND SET IN CONCRETE SIDEWALK ON THE SW SIDE OF HWY 28 IN LEADORE, IDAHO.
MSV = 0.47380	METER SCALE VALUE FOR WORDEN GRAVITY METER #266 USED FOR THIS SURVEY
STATION	STATION NUMBER
LAT	NORTH LATITUDE IN DEGREES, MINUTES, AND HUNDRETHS OF MINUTES
LONG	WEST LONGITUDE IN DEGREES, MINUTES, AND HUNDRETHS OF MINUTES
ELEV (F)	ELEVATION IN FEET
E	ELEVATION ACCURACY-NOT RECORDED

OBS G

OBSERVED GRAVITY IN MILLIGALS MINUS

978 GALS

FAA

FREE AIR ANOMALY IN MILLIGALS

BA 2.67

SIMPLE BOUGUER ANOMALY IN MILLIGALS

FOR ASSUMED DENSITY OF 2.67 G PER CC

BA (OPT)

SIMPLE BOUGUER ANOMALY IN MILLIGALS

FOR ASSUMED DENSITY OF 2.82 G PER CC

CB 2.67 CB (OPT)

COMPLETE BOUGUER ANOMALY-NOT COMPUTED

CC

CURVATURE CORRECTION IN MILLIGALS

TC

TERRAIN CORRECTION-NOT COMPUTED

DRIFT

GRAVITY METER DRIFT-COMPUTED MANUALLY

AND NOT RECORDED

TIDE

EARTH TIDE CORRECTION-NOT COMPUTED

N

STATION COUNT

REFERENCE

BEHRENDT, J. C., AND WOOLLARD, G. P., 1961, AN EVALUATION OF THE GRAVITY

CONTROL NETWORK IN NORTH AMERICA: GEOPHYSICS, V. 26, NO. 1, PP. 57-76.

LFADREIDALEMHIVALLYIDA MOOL AIRP RTT GBV=9R0012.99 MSV=0.47380

STATION	LAT	LONG	ELEV(F)	E	OBS	G	FAA	BA2.67	BA(OPT)	CB2.67	CB(OPT)	CC	TC	DRIFT	TIDE	N
0001	44	40.79	113	21.25	5966.0	0	2013.04	-26.60	-230.08	-241.51	1.67	0.0	0.0	0.0	1	
0002	44	41.33	113	20.37	6018.0	0	2010.81	-24.75	-230.00	-241.54	1.68	0.0	0.0	0.0	2	
0003	44	41.45	113	20.01	6054.0	0	2010.38	-21.98	-228.46	-240.06	1.68	0.0	0.0	0.0	3	
0004	44	41.64	113	19.37	6109.0	0	2011.38	-16.10	-224.46	-236.16	1.68	0.0	0.0	0.0	4	
0005	44	41.74	113	18.98	6144.0	0	2011.52	-12.82	-222.37	-234.14	1.69	0.0	0.0	0.0	5	
0006	44	42.10	113	18.52	6173.0	0	2015.93	-6.23	-216.77	-228.60	1.69	0.0	0.0	0.0	6	
0007	44	42.50	113	19.26	6377.0	0	2008.11	4.52	-212.98	-225.20	1.71	0.0	0.0	0.0	7	
0008	44	42.06	113	17.90	6245.0	0	2012.71	-2.62	-215.62	-227.59	1.70	0.0	0.0	0.0	8	
0009	44	42.31	113	17.19	6287.0	0	2014.79	3.03	-211.40	-223.44	1.70	0.0	0.0	0.0	9	
0010	44	42.92	113	16.84	6330.0	0	2010.53	1.89	-214.01	-226.14	1.70	0.0	0.0	0.0	10	
0011	44	43.75	113	16.58	6476.0	0	2003.47	7.30	-213.58	-225.99	1.71	0.0	0.0	0.0	11	
0012	44	41.95	113	17.48	6261.0	0	2010.53	-3.13	-216.68	-228.67	1.70	0.0	0.0	0.0	12	
0013	44	40.91	113	17.37	6150.0	0	2001.24	-21.29	-231.04	-242.83	1.69	0.0	0.0	0.0	13	
0014	44	40.60	113	19.28	6040.0	0	2001.86	-30.54	-236.54	-248.12	1.68	0.0	0.0	0.0	14	
0015	44	39.82	113	16.99	6173.0	0	1986.03	-32.70	-243.24	-255.06	1.69	0.0	0.0	0.0	15	
0016	44	39.13	113	13.37	6455.0	0	1988.64	-2.55	-222.71	-235.08	1.71	0.0	0.0	0.0	16	
0017	44	39.46	113	12.69	6514.0	0	1990.82	4.67	-217.50	-229.98	1.72	0.0	0.0	0.0	17	
0018	44	40.36	113	10.79	6748.0	0	1986.03	20.52	-209.63	-222.56	1.73	0.0	0.0	0.0	18	
0019	44	40.83	113	28.27	6225.0	0	1994.80	-20.56	-232.88	-244.80	1.70	0.0	0.0	0.0	19	
0020	44	39.64	113	26.15	6223.0	0	1985.65	-18.71	-234.36	-246.48	1.70	0.0	0.0	0.0	20	
0021	44	38.30	113	24.31	6433.0	0	1982.62	-9.39	-228.80	-241.12	1.71	0.0	0.0	0.0	21	
0022	44	36.58	113	25.74	6842.0	0	1953.29	2.30	-231.06	-244.17	1.73	0.0	0.0	0.0	22	
0023	44	36.91	113	23.63	6934.0	0	2002.80	13.04	-206.80	-216.13	1.71	0.0	0.0	0.0	23	
0024	44	40.16	113	20.10	5939.0	0	1999.39	-41.83	-244.39	-255.77	1.67	0.0	0.0	0.0	24	
0025	44	38.46	113	19.69	6101.0	0	1982.52	-40.92	-249.00	-260.69	1.68	0.0	0.0	0.0	25	
0026	44	37.99	113	19.50	6120.0	0	1978.73	-42.22	-250.95	-262.68	1.69	0.0	0.0	0.0	26	
0027	44	36.50	113	19.00	6243.0	0	1967.79	-39.36	-252.29	-264.25	1.70	0.0	0.0	0.0	27	
0028	44	35.74	113	18.98	6298.0	0	1965.56	-35.28	-250.08	-262.15	1.70	0.0	0.0	0.0	28	
0029	44	34.69	113	18.64	6389.0	0	1963.24	-27.47	-245.38	-257.62	1.71	0.0	0.0	0.0	29	
0030	44	33.48	113	18.42	6491.0	0	1968.45	-10.85	-232.24	-244.68	1.71	0.0	0.0	0.0	30	
0031	44	32.82	113	18.28	6575.0	0	1968.64	-1.78	-226.03	-238.63	1.72	0.0	0.0	0.0	31	
0032	44	31.29	113	16.85	6690.0	0	1961.87	4.55	-223.62	-236.44	1.73	0.0	0.0	0.0	32	
0033	44	29.61	113	15.75	6784.0	0	1956.23	10.27	-221.10	-234.10	1.73	0.0	0.0	0.0	33	
0034	44	27.42	113	14.45	6996.0	0	1950.26	27.52	-211.09	-224.50	1.74	0.0	0.0	0.0	34	
0035	44	27.40	113	15.80	7086.0	0	1945.00	30.75	-210.93	-224.51	1.74	0.0	0.0	0.0	35	
0036	44	24.74	113	13.03	6995.0	0	1939.36	20.56	-218.02	-231.42	1.74	0.0	0.0	0.0	36	
0037	44	23.50	113	11.35	6775.0	0	1938.13	0.52	-230.55	-243.53	1.73	0.0	0.0	0.0	37	
0038	44	22.99	113	10.61	6738.0	0	1937.66	-2.66	-232.47	-245.38	1.73	0.0	0.0	0.0	38	
0039	44	21.99	113	9.96	6750.0	0	1937.75	0.07	-230.15	-243.09	1.73	0.0	0.0	0.0	39	
0040	44	21.56	113	8.99	6735.0	0	1938.60	0.16	-229.55	-242.46	1.73	0.0	0.0	0.0	40	
0041	44	20.47	113	6.56	6778.0	0	1932.54	-0.23	-231.40	-244.39	1.73	0.0	0.0	0.0	41	
0042	44	19.96	113	4.90	6745.0	0	1938.08	2.98	-227.07	-239.99	1.73	0.0	0.0	0.0	42	
0043	44	18.43	113	1.17	6638.0	0	1950.07	7.22	-219.18	-231.90	1.72	0.0	0.0	0.0	43	
0044	44	17.66	113	0.58	6697.0	0	1946.37	10.22	-218.19	-231.02	1.73	0.0	0.0	0.0	44	
0045	44	35.58	113	19.88	6269.0	0	1978.21	-25.11	-238.93	-250.94	1.70	0.0	0.0	0.0	45	
0046	44	31.59	113	20.10	6908.0	0	1958.65	21.36	-214.25	-227.48	1.73	0.0	0.0	0.0	46	
0047	44	34.71	113	17.55	6415.0	0	1956.70	-31.60	-250.39	-262.68	1.71	0.0	0.0	0.0	47	
0048	44	34.09	113	15.53	6423.0	0	1951.49	-35.12	-254.19	-266.50	1.71	0.0	0.0	0.0	48	
0049	44	32.14	113	14.27	6549.0	0	1946.56	-25.28	-248.64	-261.19	1.72	0.0	0.0	0.0	49	
0050	44	35.92	113	16.14	6300.0	0	1960.21	-40.72	-255.59	-267.66	1.70	0.0	0.0	0.0	50	
0051	44	41.45	113	26.23	6042.0	0	2007.21	-26.28	-232.35	-243.93	1.68	0.0	0.0	0.0	51	

0052	44	41.36	113	23.03	5935.0	0	2028.91	-14.50	-216.92	-228.29	1.67	0.0	0.0	0.0	52
0053	44	42.19	113	22.61	5902.0	0	2031.42	-16.34	-217.63	-228.94	1.66	0.0	0.0	0.0	53
0054	44	36.48	113	12.71	6470.0	0	1961.54	-24.26	-244.93	-257.32	1.71	0.0	0.0	0.0	54
0055	44	34.10	113	11.44	6726.0	0	1951.35	-6.81	-236.21	-249.10	1.73	0.0	0.0	0.0	55
0056	44	32.04	113	11.27	6812.0	0	1931.35	-15.63	-247.96	-261.01	1.73	0.0	0.0	0.0	56
0057	44	32.95	113	12.73	6666.0	0	1936.90	-25.17	-252.52	-265.29	1.72	0.0	0.0	0.0	57
0058	44	26.25	113	10.53	7492.0	0	1885.21	10.82	-244.70	-259.06	1.74	0.0	0.0	0.0	58
0059	44	22.27	113	13.01	7168.0	0	1930.69	31.86	-212.62	-226.35	1.74	0.0	0.0	0.0	59
0060	44	40.23	113	20.69	6005.0	0	2003.18	-31.95	-236.76	-248.26	1.67	0.0	0.0	0.0	60
0061	44	39.37	113	19.96	6040.0	0	1992.14	-38.40	-244.41	-255.98	1.68	0.0	0.0	0.0	61
0062	44	36.47	113	17.59	6230.0	0	1965.18	-43.15	-255.63	-267.57	1.70	0.0	0.0	0.0	62
0063	44	35.19	113	16.13	6340.0	0	1956.66	-39.41	-255.65	-267.80	1.70	0.0	0.0	0.0	63
0064	44	35.94	113	15.40	6320.0	0	1958.79	-40.29	-255.84	-267.95	1.70	0.0	0.0	0.0	64
0065	44	37.12	113	15.55	6240.0	0	1966.42	-41.95	-254.78	-266.73	1.70	0.0	0.0	0.0	65
0066	44	37.57	113	15.70	6205.0	0	1970.35	-41.99	-253.62	-265.51	1.69	0.0	0.0	0.0	66
0067	44	37.79	113	15.30	6230.0	0	1972.01	-38.31	-250.79	-262.73	1.70	0.0	0.0	0.0	67
0068	44	38.09	113	14.91	6275.0	0	1975.13	-31.41	-245.42	-257.45	1.70	0.0	0.0	0.0	68
0069	44	38.38	113	14.43	6320.0	0	1978.78	-23.96	-239.52	-251.63	1.70	0.0	0.0	0.0	69
0070	44	38.65	113	13.99	6370.0	0	1982.34	-16.12	-233.38	-245.58	1.71	0.0	0.0	0.0	70
0071	44	39.94	113	11.69	6625.0	0	1989.11	12.67	-213.28	-225.98	1.72	0.0	0.0	0.0	71
0072	44	35.43	113	20.12	6280.0	0	1981.25	-20.82	-235.01	-247.04	1.70	0.0	0.0	0.0	72
0073	44	34.78	113	20.00	6350.0	0	1980.39	-14.12	-230.69	-242.86	1.71	0.0	0.0	0.0	73
0074	44	34.64	113	20.62	6350.0	0	1988.54	-5.76	-222.34	-234.50	1.71	0.0	0.0	0.0	74
0075	44	34.63	113	21.02	6360.0	0	1989.87	-3.48	-220.39	-232.58	1.71	0.0	0.0	0.0	75
0076	44	40.79	113	22.50	5990.0	0	2022.13	-15.25	-219.55	-231.02	1.67	0.0	0.0	0.0	76
0077	44	40.79	113	23.79	5980.0	0	2031.04	-7.28	-211.24	-222.69	1.67	0.0	0.0	0.0	77
0078	44	40.80	113	24.83	6030.0	0	2026.21	-7.43	-213.09	-224.64	1.68	0.0	0.0	0.0	78
0079	44	40.81	113	26.30	6080.0	0	2007.87	-21.08	-228.45	-240.10	1.68	0.0	0.0	0.0	79
0080	44	40.81	113	27.48	6180.0	0	1994.94	-24.62	-235.40	-247.24	1.69	0.0	0.0	0.0	80
0081	44	41.62	113	27.84	6120.0	0	2002.76	-23.66	-232.39	-244.12	1.69	0.0	0.0	0.0	81
0082	44	42.76	113	30.79	6100.0	0	1998.35	-31.66	-239.71	-251.40	1.68	0.0	0.0	0.0	82
0083	44	43.87	113	29.74	5969.0	0	2007.07	-36.92	-240.50	-251.94	1.67	0.0	0.0	0.0	83
0084	44	44.83	113	28.65	5665.0	0	2037.72	-36.28	-229.49	-240.35	1.64	0.0	0.0	0.0	84
0085	44	45.15	113	28.22	5680.0	0	2038.58	-34.50	-228.22	-239.10	1.64	0.0	0.0	0.0	85
0086	44	44.39	113	27.09	5785.0	0	2033.08	-28.98	-226.29	-237.37	1.65	0.0	0.0	0.0	86
0087	44	43.61	113	24.88	5827.0	0	2038.29	-18.65	-217.39	-228.55	1.66	0.0	0.0	0.0	87
0088	44	27.04	113	14.31	7042.0	0	1946.71	28.86	-211.32	-224.81	1.74	0.0	0.0	0.0	88
0089	44	26.99	113	13.99	7035.0	0	1946.28	27.85	-212.09	-225.57	1.74	0.0	0.0	0.0	89
0090	44	26.99	113	13.67	7053.0	0	1943.44	26.78	-213.77	-227.28	1.74	0.0	0.0	0.0	90
0091	44	26.99	113	13.30	7122.0	0	1935.00	24.75	-218.16	-231.81	1.74	0.0	0.0	0.0	91
0092	44	27.17	113	12.92	7219.0	0	1922.49	21.08	-225.13	-238.97	1.74	0.0	0.0	0.0	92
0093	44	27.33	113	12.72	7185.0	0	1920.79	15.94	-229.12	-242.88	1.74	0.0	0.0	0.0	93
0094	44	27.43	113	12.43	7125.0	0	1922.40	11.76	-231.25	-244.90	1.74	0.0	0.0	0.0	94
0095	44	27.53	113	12.23	7096.0	0	1924.06	10.55	-231.47	-245.07	1.74	0.0	0.0	0.0	95
0096	44	27.59	113	11.97	7075.0	0	1920.98	5.40	-235.90	-249.46	1.74	0.0	0.0	0.0	96
0097	44	27.57	113	11.56	7041.0	0	1921.97	3.23	-236.91	-250.40	1.74	0.0	0.0	0.0	97
0098	44	27.51	113	11.33	7035.0	0	1920.69	1.48	-238.46	-251.94	1.74	0.0	0.0	0.0	98
0099	44	27.41	113	10.93	7072.0	0	1916.15	0.56	-240.64	-254.19	1.74	0.0	0.0	0.0	99
0100	44	27.32	113	10.71	7121.0	0	1911.45	0.61	-242.26	-255.91	1.74	0.0	0.0	0.0	100
0101	44	27.41	113	10.37	7072.0	0	1913.54	-2.05	-243.25	-256.80	1.74	0.0	0.0	0.0	101
0102	44	27.49	113	10.13	7034.0	0	1915.20	-4.08	-243.98	-257.46	1.74	0.0	0.0	0.0	102
0103	44	27.51	113	9.79	7055.0	0	1911.98	-5.36	-245.98	-259.50	1.74	0.0	0.0	0.0	103
0104	44	27.46	113	9.50	7024.0	0	1913.78	-6.39	-245.96	-259.42	1.74	0.0	0.0	0.0	104
0105	44	27.51	113	9.19	6882.0	0	1915.67	-17.92	-252.64	-265.82	1.73	0.0	0.0	0.0	105
0106	44	27.64	113	8.78	7064.0	0	1910.08	-6.60	-247.53	-261.07	1.74	0.0	0.0	0.0	106

0108	44	27.55	113	8.42	7071.0	0	1909.80	-6.09	-247.26	-260.81	1.74	0.0	0.0	0.0	107
0109	44	27.51	113	8.14	7117.0	0	1907.05	-4.46	-247.20	-260.83	1.74	0.0	0.0	0.0	108
0110	44	27.65	113	7.78	7183.0	0	1903.64	-1.88	-246.87	-260.63	1.74	0.0	0.0	0.0	109
0111	44	27.76	113	7.40	7141.0	0	1908.90	-0.73	-244.29	-257.97	1.74	0.0	0.0	0.0	110
0112	44	27.92	113	6.93	7303.0	0	1900.46	5.81	-243.27	-257.26	1.74	0.0	0.0	0.0	111
0113	44	28.03	113	6.57	7435.0	0	1896.06	13.64	-239.94	-254.19	1.74	0.0	0.0	0.0	112
0114	44	27.97	113	5.86	7527.0	0	1897.81	24.13	-232.59	-247.01	1.74	0.0	0.0	0.0	113
0115	44	27.67	113	5.41	7682.0	0	1889.57	30.90	-231.11	-245.83	1.73	0.0	0.0	0.0	114
0116	44	27.40	113	4.83	7820.0	0	1888.57	43.27	-223.44	-238.42	1.73	0.0	0.0	0.0	115
0117	44	27.47	113	4.42	7983.0	0	1884.31	54.22	-218.06	-233.35	1.72	0.0	0.0	0.0	116
0118	44	22.94	113	11.58	6798.0	0	1939.74	5.14	-226.72	-239.75	1.73	0.0	0.0	0.0	117
0119	44	22.52	113	12.50	6975.0	0	1939.41	22.07	-215.83	-229.19	1.74	0.0	0.0	0.0	118
0120	44	18.34	113	10.47	7472.0	0	1908.80	44.44	-210.40	-224.72	1.74	0.0	0.0	0.0	119
0121	44	18.29	113	7.97	7185.0	0	1916.24	24.99	-220.06	-233.83	1.74	0.0	0.0	0.0	120
0122	44	18.02	113	6.88	7049.0	0	1921.64	18.02	-222.40	-235.90	1.74	0.0	0.0	0.0	121
0123	44	17.06	113	5.24	7267.0	0	1906.20	24.50	-223.35	-237.28	1.74	0.0	0.0	0.0	122
0124	44	25.54	113	12.50	7572.0	0	1894.45	28.65	-229.61	-244.12	1.74	0.0	0.0	0.0	123
0125	44	25.38	113	7.36	7072.0	0	1911.69	-0.84	-242.04	-255.59	1.74	0.0	0.0	0.0	124
0126	44	24.49	113	3.27	7570.0	0	1903.26	38.85	-219.33	-233.84	1.74	0.0	0.0	0.0	125
0127	44	22.09	113	4.07	6795.0	0	1930.64	-2.96	-234.72	-247.74	1.73	0.0	0.0	0.0	126
0128	44	21.83	113	2.18	6836.0	0	1932.68	3.32	-229.84	-242.93	1.73	0.0	0.0	0.0	127
0129	44	21.60	113	0.63	6901.0	0	1944.29	21.38	-213.99	-227.21	1.73	0.0	0.0	0.0	128
0130	44	20.37	113	2.93	6720.0	0	1939.69	1.63	-227.57	-240.45	1.73	0.0	0.0	0.0	129
0131	44	23.76	113	1.35	7321.0	0	1920.13	33.43	-216.27	-230.30	1.74	0.0	0.0	0.0	130
0132	44	24.03	112	57.51	8171.0	0	1866.96	59.71	-218.97	-234.63	1.71	0.0	0.0	0.0	131
0133	44	23.24	112	57.82	8990.0	0	1823.28	94.15	-212.47	-229.70	1.62	0.0	0.0	0.0	132
0134	44	21.68	112	57.86	8831.0	0	1827.59	85.87	-215.32	-232.25	1.64	0.0	0.0	0.0	133
131A	44	20.79	113	6.36	6718.0	0	1935.24	-3.65	-232.78	-245.65	1.73	0.0	0.0	0.0	134
132A	44	21.18	113	6.08	6723.0	0	1935.14	-3.86	-233.16	-246.04	1.73	0.0	0.0	0.0	135
133A	44	21.64	113	5.77	6743.0	0	1934.29	-3.52	-233.51	-246.43	1.73	0.0	0.0	0.0	136
134A	44	22.21	113	5.29	6793.0	0	1930.88	-3.10	-234.78	-247.80	1.73	0.0	0.0	0.0	137
0135	44	22.75	113	5.68	6823.0	0	1928.61	-3.36	-236.07	-249.15	1.73	0.0	0.0	0.0	138
0136	44	23.22	113	6.18	6893.0	0	1922.97	-3.13	-238.23	-251.44	1.73	0.0	0.0	0.0	139
0137	44	24.05	113	5.88	6968.0	0	1918.61	-1.69	-239.35	-252.70	1.74	0.0	0.0	0.0	140
0138	44	19.30	112	59.63	6857.0	0	1944.24	20.66	-213.21	-226.35	1.73	0.0	0.0	0.0	141
0139	44	20.66	112	59.04	7052.0	0	1941.64	34.33	-206.19	-219.71	1.74	0.0	0.0	0.0	142
0140	44	18.35	112	56.00	7142.0	0	1938.18	42.80	-200.79	-214.48	1.74	0.0	0.0	0.0	143
0141	44	18.98	112	53.01	7492.0	0	1911.93	48.48	-207.04	-221.40	1.74	0.0	0.0	0.0	144
0142	44	20.50	112	50.83	8312.0	0	1868.62	79.92	-203.57	-219.50	1.70	0.0	0.0	0.0	145
0143	44	17.53	112	58.44	6752.0	0	1949.45	18.67	-211.62	-224.56	1.73	0.0	0.0	0.0	146
0144	44	16.92	113	34.09	7172.0	0	1917.42	27.01	-217.60	-231.34	1.74	0.0	0.0	0.0	147
0145	44	15.91	113	36.16	7652.0	0	1895.91	52.12	-208.86	-223.53	1.73	0.0	0.0	0.0	148
0146	44	15.50	113	34.16	7482.0	0	1904.92	45.77	-209.42	-223.76	1.74	0.0	0.0	0.0	149
0147	44	15.64	112	50.52	6520.0	0	2069.05	120.10	-102.27	-114.77	1.72	0.0	0.0	0.0	150
0148	44	25.76	113	13.93	7198.0	0	1934.62	33.36	-212.14	-225.93	1.74	0.0	0.0	0.0	151
0149	44	26.03	113	18.80	9088.0	0	1816.32	92.19	-217.77	-235.18	1.61	0.0	0.0	0.0	152
0150	44	35.07	113	9.76	6910.0	0	1963.34	21.00	-214.67	-227.91	1.73	0.0	0.0	0.0	153
0151	44	35.60	113	9.00	7160.0	0	1949.55	29.91	-214.29	-228.01	1.74	0.0	0.0	0.0	154
0152	44	35.22	113	12.41	6560.0	0	1955.00	-20.44	-244.18	-256.75	1.72	0.0	0.0	0.0	155
0153	44	33.01	113	8.74	7106.0	0	1944.72	23.90	-218.46	-232.08	1.74	0.0	0.0	0.0	156
0154	44	33.05	113	6.65	7446.0	0	1931.26	42.33	-211.63	-225.90	1.74	0.0	0.0	0.0	157

0155	44	32.09	113	9.35	7035.0	0	1933.58	7.48	-232.46	-245.94	1.74	0.0	0.0	0.0	174
0156	44	29.92	113	4.97	7625.0	0	1904.68	37.27	-222.79	-237.40	1.74	0.0	0.0	0.0	175
0157	44	29.98	113	6.97	7340.0	0	1906.57	12.30	-238.04	-252.10	1.74	0.0	0.0	0.0	160
0158	44	30.78	113	8.76	7110.0	0	1917.14	0.06	-242.44	-256.07	1.74	0.0	0.0	0.0	161
0159	44	30.65	113	11.38	6930.0	0	1919.22	-14.58	-250.93	-264.21	1.74	0.0	0.0	0.0	162
0160	44	35.80	113	20.92	6319.0	0	1990.86	-8.09	-223.61	-235.72	1.70	0.0	0.0	0.0	163
0161	44	36.70	113	21.69	6274.0	0	1996.45	-8.09	-222.07	-234.07	1.70	0.0	0.0	0.0	164
0162	44	37.25	113	22.70	6379.0	0	1997.02	1.52	-216.05	-228.27	1.71	0.0	0.0	0.0	165
0163	44	34.94	113	26.12	7119.0	0	1935.86	13.36	-229.45	-243.09	1.74	0.0	0.0	0.0	166
0164	44	35.56	113	25.04	6989.0	0	1944.95	9.31	-229.06	-242.46	1.74	0.0	0.0	0.0	167
0165	44	32.97	113	24.76	7269.0	0	1932.21	26.76	-221.16	-235.08	1.74	0.0	0.0	0.0	168
0166	44	34.58	113	28.19	7529.0	0	1917.80	34.37	-222.42	-236.85	1.74	0.0	0.0	0.0	169
0167	44	38.92	113	25.37	6614.0	0	1969.45	-6.49	-232.07	-244.74	1.72	0.0	0.0	0.0	170
0168	44	37.95	113	27.72	6882.0	0	1948.84	-0.46	-235.18	-248.36	1.73	0.0	0.0	0.0	171
0169	44	39.15	113	28.88	6390.0	0	1985.32	-12.01	-229.95	-242.19	1.71	0.0	0.0	0.0	172
0170	44	39.13	113	30.87	6710.0	0	1978.59	11.36	-217.49	-230.35	1.73	0.0	0.0	0.0	173

0171	44	38.21	113	33.23	7140.0	0	1949.69	24.24	-219.28	-232.96	1.74	0.0	0.0	0.0	174
0172	44	36.92	113	33.98	7340.0	0	1937.66	32.94	-217.40	-231.47	1.74	0.0	0.0	0.0	175
0173	44	36.75	113	33.45	8355.0	0	1875.73	66.62	-218.34	-234.35	1.69	0.0	0.0	0.0	176
0174	44	40.02	113	30.98	6528.0	0	1982.76	-2.91	-225.56	-238.07	1.72	0.0	0.0	0.0	177
0175	44	41.52	113	33.77	6965.0	0	1948.93	2.06	-235.49	-248.83	1.74	0.0	0.0	0.0	178
0176	44	43.21	113	33.56	6288.0	0	1987.74	-25.28	-239.75	-251.79	1.70	0.0	0.0	0.0	179
0177	44	44.44	113	34.64	6210.0	0	1997.78	-24.42	-236.22	-248.12	1.69	0.0	0.0	0.0	180
0178	44	42.99	113	35.66	6785.0	0	1968.83	2.84	-228.57	-241.57	1.73	0.0	0.0	0.0	181
0179	44	42.43	113	35.46	7015.0	0	1955.04	11.51	-227.75	-241.19	1.74	0.0	0.0	0.0	182
178A	44	45.17	113	34.76	6072.0	0	2008.30	-27.97	-235.06	-246.70	1.68	0.0	0.0	0.0	183
179A	44	47.05	113	34.73	5737.0	0	2035.69	-34.89	-230.56	-241.55	1.64	0.0	0.0	0.0	184
0180	44	48.25	113	33.39	5447.0	0	2067.10	-32.53	-218.31	-228.75	1.61	0.0	0.0	0.0	185
0181	44	46.83	113	32.25	5551.0	0	2044.07	-43.65	-232.98	-243.61	1.62	0.0	0.0	0.0	186
0182	44	46.37	113	30.78	5561.0	0	2049.38	-36.71	-226.38	-237.03	1.62	0.0	0.0	0.0	187
0183	44	45.16	113	31.55	5676.0	0	2032.56	-40.90	-234.49	-245.37	1.64	0.0	0.0	0.0	188
0184	44	40.78	113	21.94	5986.0	0	2017.35	-20.39	-224.55	-236.02	1.67	0.0	0.0	0.0	189
0185	44	40.78	113	23.08	5986.0	0	2027.39	-10.35	-214.51	-225.98	1.67	0.0	0.0	0.0	190
0186	44	40.78	113	24.33	6006.0	0	2029.95	-5.91	-210.75	-222.26	1.67	0.0	0.0	0.0	191
0187	44	40.78	113	25.35	6041.0	0	2017.59	-14.99	-221.03	-232.60	1.68	0.0	0.0	0.0	192
0188	44	40.78	113	26.83	6001.0	0	2001.48	-34.86	-239.53	-251.03	1.67	0.0	0.0	0.0	193
0189	44	40.23	113	25.31	6143.0	0	2010.43	-11.73	-221.25	-233.02	1.69	0.0	0.0	0.0	194
0190	44	41.47	113	24.81	5973.0	0	2030.38	-9.62	-213.34	-224.79	1.67	0.0	0.0	0.0	195
0191	44	41.63	113	24.95	5958.0	0	2025.92	-15.73	-218.93	-230.35	1.67	0.0	0.0	0.0	196
0192	44	38.84	113	23.86	6348.0	0	1996.60	-4.21	-220.72	-232.88	1.70	0.0	0.0	0.0	197
0193	44	39.07	113	23.52	6253.0	0	2009.25	-0.83	-214.10	-226.08	1.70	0.0	0.0	0.0	198
0194	44	39.47	113	23.38	6208.0	0	2015.55	0.64	-211.10	-222.99	1.69	0.0	0.0	0.0	199
0195	44	39.94	113	22.98	6108.0	0	2020.33	-4.68	-213.00	-224.71	1.68	0.0	0.0	0.0	200
0196	44	40.36	113	22.78	6078.0	0	2021.09	-7.37	-214.67	-226.32	1.68	0.0	0.0	0.0	201
0197	44	38.69	113	21.19	6156.0	0	1997.21	-21.41	-231.37	-243.17	1.69	0.0	0.0	0.0	202
0198	44	39.33	113	21.51	6106.0	0	2003.75	-20.53	-228.79	-240.49	1.68	0.0	0.0	0.0	203
0199	44	39.91	113	21.51	6056.0	0	2006.97	-22.88	-229.43	-241.04	1.68	0.0	0.0	0.0	204
0200	44	41.45	113	22.42	5936.0	0	2025.17	-18.28	-220.74	-232.11	1.67	0.0	0.0	0.0	205
0201	44	41.80	113	23.08	5911.0	0	2031.71	-14.62	-216.22	-227.55	1.66	0.0	0.0	0.0	206
0202	44	42.20	113	23.79	5866.0	0	2036.54	-14.62	-214.69	-225.93	1.66	0.0	0.0	0.0	207
0203	44	42.60	113	24.48	5846.0	0	2033.32	-20.32	-219.71	-230.91	1.66	0.0	0.0	0.0	208

0204	44	43.19	113	25.60	5796.0	0	2030.80	-28.42	-226.10	-237.20	1.65	0.0	0.0	0.0	207
0205	44	43.72	113	26.58	5756.0	0	2032.46	-31.32	-227.63	-238.66	1.65	0.0	0.0	0.0	210
0206	44	42.70	113	21.65	6112.0	0	2025.21	-3.58	-212.04	-223.75	1.68	0.0	0.0	0.0	211
0207	44	43.20	113	21.53	6227.0	0	2022.42	3.68	-208.70	-220.63	1.70	0.0	0.0	0.0	212
0208	44	44.71	113	19.10	8719.0	0	1873.83	86.94	-210.43	-227.14	1.66	0.0	0.0	0.0	213
0209	44	44.11	113	19.29	8527.0	0	1880.99	76.96	-213.86	-230.20	1.68	0.0	0.0	0.0	214
0211	44	21.88	113	14.18	7417.0	0	1916.81	41.96	-211.01	-225.22	1.74	0.0	0.0	0.0	215
0212	44	21.04	113	16.59	9987.0	0	1756.05	123.86	-216.76	-235.90	1.45	0.0	0.0	0.0	216
0213	44	21.81	113	16.14	9527.0	0	1788.69	112.15	-212.79	-231.04	1.54	0.0	0.0	0.0	217
0214	44	21.68	113	17.41	8617.0	0	1842.94	81.12	-212.78	-229.29	1.67	0.0	0.0	0.0	218
0215	44	21.79	113	18.32	7725.0	0	1896.48	50.70	-212.77	-227.57	1.73	0.0	0.0	0.0	219
0216	44	21.51	113	19.50	7373.0	0	1919.08	40.65	-210.81	-224.94	1.74	0.0	0.0	0.0	220
0217	44	21.12	113	19.82	7188.0	0	1930.93	35.70	-209.45	-223.23	1.74	0.0	0.0	0.0	221
0218	44	20.73	113	20.46	6946.0	0	1944.57	27.20	-209.70	-223.01	1.74	0.0	0.0	0.0	222
0219	44	20.28	113	21.11	6763.0	0	1953.48	19.59	-211.07	-224.03	1.73	0.0	0.0	0.0	223
0220	44	19.47	113	20.87	6662.0	0	1957.51	15.34	-211.87	-224.64	1.72	0.0	0.0	0.0	224
0221	44	19.00	113	20.29	6608.0	0	1960.97	14.44	-210.94	-223.60	1.72	0.0	0.0	0.0	225
0222	44	18.14	113	20.42	6525.0	0	1965.85	12.81	-209.73	-222.24	1.72	0.0	0.0	0.0	226
0223	44	17.44	113	21.03	6457.0	0	1963.38	5.01	-215.21	-227.59	1.71	0.0	0.0	0.0	227
0224	44	16.73	113	21.07	6387.0	0	1961.91	-1.97	-219.80	-232.04	1.71	0.0	0.0	0.0	228
0225	44	15.93	113	22.18	6325.0	0	1958.69	-9.81	-225.53	-237.65	1.70	0.0	0.0	0.0	229
0226	44	15.20	113	22.46	6273.0	0	1958.22	-14.07	-228.02	-240.04	1.70	0.0	0.0	0.0	230
0227	44	12.53	113	19.90	6230.0	0	1961.11	-11.21	-223.69	-235.63	1.70	0.0	0.0	0.0	231
0228	44	12.82	113	20.39	6231.0	0	1957.13	-15.53	-228.05	-239.99	1.70	0.0	0.0	0.0	232
0229	44	13.17	113	20.82	6276.0	0	1957.41	-11.54	-225.60	-237.62	1.70	0.0	0.0	0.0	233
0230	44	13.69	113	21.73	6296.0	0	1958.03	-9.83	-224.56	-236.63	1.70	0.0	0.0	0.0	234

0231	44	13.98	113	22.13	6253.0	0	1960.78	-11.56	-224.83	-236.81	1.70	0.0	0.0	0.0	235
0232	44	14.77	113	23.83	6360.0	0	1959.78	-3.69	-220.61	-232.79	1.71	0.0	0.0	0.0	236
0233	44	15.07	113	24.75	6387.0	0	1954.52	-6.86	-224.70	-236.94	1.71	0.0	0.0	0.0	237
0234	44	15.60	113	26.07	6375.0	0	1961.54	-1.77	-219.20	-231.42	1.71	0.0	0.0	0.0	238
0235	44	16.03	113	26.76	6404.0	0	1963.86	2.63	-215.79	-228.06	1.71	0.0	0.0	0.0	239
0236	44	16.77	113	27.74	6504.0	0	1959.07	6.12	-215.71	-228.17	1.72	0.0	0.0	0.0	240
0237	44	17.22	113	23.88	6554.0	0	1960.02	11.09	-212.44	-225.00	1.72	0.0	0.0	0.0	241
0238	44	18.62	113	30.58	6617.0	0	1955.52	10.41	-215.28	-227.96	1.72	0.0	0.0	0.0	242
0239	44	19.32	113	32.28	6676.0	0	1952.82	12.20	-215.50	-228.29	1.73	0.0	0.0	0.0	243
0240	44	20.07	113	34.06	6495.0	0	1965.04	6.28	-215.24	-227.68	1.72	0.0	0.0	0.0	244
0241	44	21.10	113	36.40	6255.0	0	1979.40	-3.46	-216.80	-228.78	1.70	0.0	0.0	0.0	245
0242	44	22.17	113	37.85	6175.0	0	1985.04	-6.95	-217.56	-229.39	1.69	0.0	0.0	0.0	246
0243	44	23.37	113	39.04	6052.0	0	1988.02	-17.33	-223.74	-235.34	1.68	0.0	0.0	0.0	247
0244	44	23.72	113	40.04	6011.0	0	1987.93	-21.80	-226.82	-238.33	1.68	0.0	0.0	0.0	248
0245	44	23.94	113	41.18	5969.0	0	1986.32	-27.69	-231.27	-242.71	1.67	0.0	0.0	0.0	249
0246	44	24.25	113	42.05	5898.0	0	1988.97	-32.17	-233.33	-244.64	1.66	0.0	0.0	0.0	250
0247	44	23.85	113	43.57	5946.0	0	1988.31	-27.72	-230.52	-241.91	1.67	0.0	0.0	0.0	251
0248	44	24.31	113	44.47	5907.0	0	1990.58	-29.81	-231.27	-242.59	1.66	0.0	0.0	0.0	252
0249	44	29.37	113	10.74	6872.0	0	1925.95	-11.37	-245.75	-258.92	1.73	0.0	0.0	0.0	253
0250	44	29.61	113	12.38	6740.0	0	1940.88	-9.21	-239.09	-252.00	1.73	0.0	0.0	0.0	254
0251	44	28.82	113	13.70	7202.0	0	1924.39	18.90	-226.74	-240.54	1.74	0.0	0.0	0.0	255
0252	44	42.69	113	23.29	5857.0	0	2037.53	-15.20	-214.97	-226.19	1.66	0.0	0.0	0.0	256
0253	44	43.10	113	22.87	6192.0	0	2021.66	-0.21	-211.40	-223.27	1.69	0.0	0.0	0.0	257
0254	44	43.05	113	23.81	6232.0	0	2019.29	1.25	-211.30	-223.24	1.70	0.0	0.0	0.0	258

255	44	38.63	113	23.11	6246.0	0	2007.40	-2.68	-215.71	-227.67	1.70	0.0	0.0	0.0	25
256	44	37.91	113	25.42	6593.0	0	1969.68	-6.70	-231.57	-244.20	1.72	0.0	0.0	0.0	260
257	44	37.45	113	26.23	6720.0	0	1959.97	-3.79	-232.99	-245.86	1.73	0.0	0.0	0.0	261
258	44	39.06	113	24.27	6300.0	0	2003.18	-2.47	-217.34	-229.41	1.70	0.0	0.0	0.0	262
259	44	39.14	113	26.82	6355.0	0	1983.00	-17.60	-234.35	-246.53	1.71	0.0	0.0	0.0	263
260	44	38.40	113	27.59	6545.0	0	1968.97	-12.66	-235.89	-248.43	1.72	0.0	0.0	0.0	264
261	44	38.16	113	26.75	6560.0	0	1969.02	-10.84	-234.58	-247.15	1.72	0.0	0.0	0.0	265
262	44	39.93	113	27.23	6210.0	0	1994.27	-21.14	-232.94	-244.84	1.69	0.0	0.0	0.0	266
263	44	39.93	113	28.64	6350.0	0	1988.97	-13.29	-229.87	-242.03	1.71	0.0	0.0	0.0	267
264	44	40.82	113	29.44	6275.0	0	1996.64	-14.00	-228.02	-240.04	1.70	0.0	0.0	0.0	268
265	44	39.84	113	30.10	6465.0	0	1992.19	0.87	-219.63	-232.02	1.71	0.0	0.0	0.0	269
266	44	38.18	113	20.00	6120.0	0	1981.15	-40.09	-248.82	-260.55	1.69	0.0	0.0	0.0	270
267	44	38.18	113	21.20	6220.0	0	1995.46	-16.38	-228.52	-240.44	1.69	0.0	0.0	0.0	271
268	44	38.17	113	21.81	6260.0	0	1999.16	-8.91	-222.42	-234.42	1.70	0.0	0.0	0.0	272
269	44	38.17	113	22.20	6270.0	0	2000.72	-6.41	-220.26	-232.27	1.70	0.0	0.0	0.0	273
270	44	38.18	113	20.60	6175.0	0	1989.25	-26.82	-237.43	-249.26	1.69	0.0	0.0	0.0	274
271	44	43.49	113	30.78	6030.0	0	2001.33	-36.35	-242.01	-253.57	1.68	0.0	0.0	0.0	275
272	44	39.62	113	22.13	6106.0	0	2010.67	-14.05	-222.31	-234.01	1.68	0.0	0.0	0.0	276
273	44	39.07	113	22.61	6186.0	0	2010.01	-6.37	-217.35	-229.21	1.69	0.0	0.0	0.0	277
274	44	38.17	113	23.01	6266.0	0	2005.41	-2.10	-215.81	-227.81	1.70	0.0	0.0	0.0	278
275	44	38.17	113	22.41	6266.0	0	2003.61	-3.90	-217.61	-229.61	1.70	0.0	0.0	0.0	279
276	44	37.63	113	23.50	6346.0	0	1995.98	-3.19	-219.63	-231.79	1.70	0.0	0.0	0.0	280
277	44	40.39	113	24.47	6076.0	0	2024.74	-3.96	-211.19	-222.83	1.68	0.0	0.0	0.0	281
278	44	39.67	113	25.56	6246.0	0	1998.44	-13.20	-226.23	-238.19	1.70	0.0	0.0	0.0	282
279	44	41.83	113	21.16	6026.0	0	2016.31	-19.26	-224.78	-236.33	1.68	0.0	0.0	0.0	283
280	44	42.87	113	29.76	6046.0	0	2004.13	-31.12	-237.33	-248.91	1.68	0.0	0.0	0.0	284
281	44	43.01	113	29.06	6051.0	0	2003.75	-31.24	-237.62	-249.21	1.68	0.0	0.0	0.0	285
282	44	43.51	113	28.66	6006.0	0	2007.59	-32.38	-237.23	-248.73	1.67	0.0	0.0	0.0	286