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GEOLOGICAL SURVEY

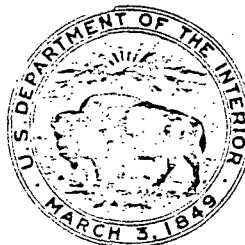
**UNIVERSITY OF UTAH
RESEARCH INSTITUTE
EARTH SCIENCE LAB.**

PRINCIPLE FACTS FOR GRAVITY STATIONS IN
LEMMON VALLEY, WASHOE COUNTY, NEVADA

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Open-File Report 80-71

Prepared in cooperation with the
Nevada Division of Water Resources



Explanation of the headings of the accompanying table of principal facts:

Station Number	Gravity station number
Latitude	North latitude, in degrees, minutes, and hundredths of minutes
Longitude	West longitude, in degrees, minutes, and hundredths of minutes
Elev.	Elevation, in feet above National Geodetic Vertical Datum of 1929 (to convert to meters, multiply by 0.3048)
Observed gravity	Observed gravity, in milligals
Terrain correction	Total terrain correction to 103.6 miles (166.7 kilometers) at a density of 2.67 grams per cubic centimeter
Free air anomaly	Free air anomaly, in milligals
Sim. Bouguer anomaly	Simple Bouguer anomaly, in milligals at a reduction density of 2.67 gm/c
Comp. Bouguer anomaly	Complete Bouguer anomaly, in milligals at a reduction density of 2.67 gm/c

From January through March 1979, 235 gravity stations were established in Lemmon Valley, Nevada, north of Reno. Vertical control and horizontal control for most of the stations were obtained from bench marks, road intersections, and section corners shown on U.S. Geological Survey topographic maps at a scale of 1:24,000. The elevations of the remaining stations were estimated from contours, and locations were established on the maps by vehicle odometer.

Gravity observations were made with a Worden¹ temperature-controlled gravimeter with a scale factor of 0.0965 milligal per scale division. A local base station was occupied at the beginning of each day, at midday, and at the end of each day. The local base station was tied to a base station in Carson City, Nev. (Chapman, 1966).

REFERENCE

Chapman, R. H., 1966, Gravity base station network: California
Division of Mines and Geology, Special Report 90, 49 p.

1. Use of brand names in this report is for descriptive purposes only and in no way constitutes endorsement by the U.S. Geological Survey.

PRINCIPLE FACTS FOR GRAVITY STATIONS IN: LEMMON VALLEY, NEVADA

STATION NUMBER	LATITUDE (DEC. MIN.)	LONGITUDE (DEC. MIN.)	ELEV. (FEET)	OBSERVED GRAVITY (MILLIGALS)	TERRAIN CORRECTION (MILLIGALS)	FREE AIR ANOMALY (MILLIGALS)	SIM. BOUGUER ANOMALY (MILLIGALS)	COMP. BOUGUER ANOMALY (MILLIGALS)
LV001	39 39.22	119 52.47	5019.0	979676.64	.73	-1.19	-172.37	-173.06
LV002	39 39.20	119 52.13	5021.0	979677.99	.70	.37	-170.87	-171.59
LV003	39 39.43	119 52.01	5026.0	979678.12	.66	.63	-170.79	-171.54
LV004	39 39.43	119 52.00	5017.0	979679.83	.66	1.50	-169.61	-170.37
LV005	39 39.55	119 51.82	4954.0	979680.36	1.00	-4.07	-173.03	-173.44
LV006	39 37.98	119 51.23	4970.0	979682.39	.90	1.78	-167.73	-168.23
LV007	39 38.77	119 51.90	4971.0	979680.85	.76	-.83	-170.37	-171.02
LV008	39 38.92	119 52.02	4990.0	979679.71	.74	-.41	-170.60	-171.27
LV009	39 39.05	119 52.13	5022.0	979677.88	.74	.58	-170.70	-171.38
LV010	39 38.63	119 51.78	4950.0	979682.36	.78	-1.09	-169.91	-170.54
LV011	39 38.48	119 51.65	4945.0	979681.39	.80	-2.31	-170.96	-171.57
LV012	39 38.18	119 51.38	4955.0	979681.69	.83	-.62	-169.62	-170.19
LV013	39 38.55	119 51.22	4945.0	979681.80	.79	-1.70	-170.36	-170.97
LV014	39 38.58	119 51.27	4935.0	979681.54	.76	-3.24	-171.56	-172.21
LV015	39 38.48	119 50.77	4940.0	979684.55	.77	.38	-168.10	-168.74
LV016	39 38.17	119 50.75	4950.0	979683.47	.83	.70	-168.12	-168.70
LV017	39 39.58	119 52.60	5021.0	979676.00	.70	-2.18	-173.43	-174.14
LV018	39 38.77	119 52.75	4994.0	979675.88	.84	-3.64	-173.97	-174.53
LV019	39 39.40	119 51.63	4950.0	979684.37	.90	-.21	-169.04	-169.55
LV020	39 39.60	119 51.70	4930.0	979686.10	.90	-.66	-168.80	-169.30
LV021	39 39.70	119 51.50	4930.0	979685.80	.77	-1.11	-169.25	-169.89
LV022	39 39.77	119 51.33	4934.0	979685.12	.68	-1.52	-169.80	-170.52
LV023	39 39.95	119 51.33	4960.0	979683.29	.71	-1.17	-170.34	-171.03
LV024	39 40.12	119 51.33	5000.0	979680.34	.98	-.61	-171.14	-171.57
LV025	39 40.00	119 51.08	4925.0	979685.58	.69	-2.24	-170.22	-170.93
LV026	39 40.00	119 50.90	4918.0	979684.91	.66	-3.57	-171.30	-172.05
LV027	39 40.20	119 50.90	4925.0	979684.38	.68	-3.74	-171.71	-172.43
LV028	39 40.43	119 50.90	4935.0	979684.02	.72	-3.50	-171.81	-172.49
LV029	39 40.43	119 51.18	4990.0	979681.48	.76	-.87	-171.06	-171.71
LV030	39 40.22	119 51.18	4961.0	979682.31	.70	-2.45	-171.65	-172.36
LV031	39 40.60	119 51.18	5018.0	979680.16	.74	.19	-170.95	-171.62
LV032	39 40.62	119 50.87	4939.0	979683.51	.75	-3.91	-172.36	-173.01
LV033	39 40.76	119 50.76	4947.0	979682.14	.83	-4.73	-173.46	-174.04
LV034	39 40.75	119 50.93	4975.0	979682.82	.80	-1.41	-171.09	-171.69
LV035	39 40.88	119 51.05	5011.0	979681.30	.96	.26	-170.65	-171.10
LV036	39 41.00	119 51.17	5080.0	979676.10	.89	1.37	-171.89	-172.42
LV037	39 41.25	119 51.40	5185.0	979668.94	1.00	3.71	-173.13	-173.56
LV038	39 41.50	119 51.45	5300.0	979663.45	1.22	8.66	-172.11	-172.33
LV039	39 41.05	119 50.77	4973.0	979682.20	1.04	-2.66	-172.27	-172.64
LV040	39 41.27	119 50.68	5030.0	979680.31	1.37	.48	-171.07	-171.12
LV041	39 41.48	119 50.55	5116.0	979677.12	1.69	5.06	-169.43	-169.16
LV042	39 41.62	119 50.35	5093.0	979678.79	1.63	4.37	-169.34	-169.13
LV043	39 41.57	119 50.07	5030.0	979682.44	1.04	2.17	-169.39	-169.76
LV044	39 41.35	119 50.13	4995.0	979684.49	.94	1.25	-169.11	-169.57
LV045	39 41.15	119 50.22	4957.0	979686.50	.86	0.	-169.08	-169.62

STATION NUMBER	LATITUDE (DEG. MIN.)	LONGITUDE (DEG. MIN.)	ELEV. (FEET)	OBSERVED GRAVITY (MILLIGALS)	TERRAIN CORRECTION (MILLIGALS)	FREE AIR ANOMALY (MILLIGALS)	SIM. BOUGUER ANOMALY (MILLIGALS)	COMP. BOUGUER ANOMALY (MILLIGALS)
LV046	39 40.45	119 50.30	4939.0	979685.09	.80	-2.82	-171.27	-171.88
LV047	39 40.65	119 50.42	4921.0	979684.65	.72	-4.51	-172.34	-173.03
LV048	39 40.45	119 50.50	4923.0	979683.64	.70	-5.03	-172.94	-173.64
LV049	39 40.32	119 50.02	4918.0	979684.01	.63	-4.94	-172.68	-173.45
LV050	39 40.53	119 49.92	4928.0	979684.44	.63	-3.88	-171.96	-172.73
LV051	39 40.93	119 49.73	4945.0	979685.37	.70	-1.95	-170.60	-171.31
LV052	39 41.27	119 49.72	4992.0	979684.37	.79	.97	-169.29	-169.91
LV053	39 41.58	119 49.72	5040.0	979681.75	.97	2.40	-169.49	-169.94
LV054	39 41.80	119 49.83	5085.0	979679.68	1.25	4.24	-169.19	-169.36
LV055	39 41.95	119 49.73	5130.0	979677.84	1.11	6.41	-168.56	-168.88
LV056	39 42.01	119 49.50	5215.0	979672.36	1.10	8.82	-169.04	-169.38
LV057	39 42.30	119 49.75	5312.0	979666.37	1.77	11.53	-169.65	-169.32
LV058	39 42.17	119 49.95	5175.0	979674.23	1.37	6.70	-169.80	-169.86
LV059	39 41.95	119 49.47	5112.0	979677.65	1.18	4.52	-169.83	-170.07
LV060	39 41.83	119 49.27	5180.0	979674.40	1.33	7.84	-168.83	-168.93
LV061	39 40.18	119 49.87	4920.0	979684.30	.62	-4.26	-172.06	-172.84
LV062	39 40.32	119 49.58	4932.0	979684.49	.61	-3.15	-171.36	-172.15
LV063	39 40.33	119 49.15	4933.0	979684.29	.60	-3.27	-171.52	-172.31
LV064	39 40.33	119 48.75	4950.0	979684.58	.66	-1.38	-170.21	-170.95
LV065	39 40.37	119 48.17	4980.0	979684.70	1.03	1.50	-168.35	-168.73
LV066	39 40.55	119 47.70	4996.0	979682.85	.71	.89	-169.51	-170.21
LV067	39 40.13	119 48.55	4945.0	979684.84	1.36	3.41	-166.95	-167.00
LV068	39 40.13	119 48.88	4937.0	979686.50	.69	-.38	-168.77	-169.49
LV069	39 40.13	119 49.28	4930.0	979684.91	.62	-2.63	-170.78	-171.56
LV070	39 39.88	119 49.72	4919.0	979684.42	.62	-3.79	-171.56	-172.34
LV071	39 39.90	119 49.28	4926.0	979685.71	.64	-1.87	-169.88	-170.64
LV072	39 39.90	119 49.02	4931.0	979686.84	.70	-.27	-168.45	-169.16
LV073	39 39.90	119 48.62	4964.0	979686.02	1.27	2.01	-167.29	-167.43
LV074	39 39.68	119 48.60	4946.0	979685.89	.73	.51	-168.18	-168.85
LV075	39 39.68	119 49.17	4938.0	979686.66	.67	.53	-167.89	-168.62
LV076	39 39.68	119 49.43	4918.0	979685.70	.65	-2.31	-170.04	-170.79
LV077	39 39.47	119 49.63	4918.0	979685.69	.67	-2.00	-169.74	-170.47
LV078	39 39.47	119 49.30	4918.0	979686.71	.70	-.98	-168.72	-169.43
LV079	39 39.47	119 48.90	4953.0	979685.95	.80	1.54	-167.38	-167.99
LV080	39 39.22	119 49.07	4933.0	979687.73	.89	1.81	-166.43	-166.94
LV081	39 39.03	119 49.35	4932.0	979686.77	.95	1.04	-167.17	-167.63
LV082	39 38.85	119 49.32	5000.0	979682.96	1.17	3.89	-166.65	-166.88
LV083	39 38.58	119 49.38	5372.0	979674.57	3.49	30.86	-152.36	-150.32
LV084	39 38.92	119 49.65	4921.0	979686.76	1.30	.16	-167.68	-167.78
LV085	39 38.70	119 50.25	4930.0	979684.86	.77	-.57	-168.71	-169.35
LV086	39 38.63	119 50.58	4931.0	979684.04	.73	-1.19	-169.37	-170.05
LV087	39 38.43	119 50.45	4940.0	979683.86	.80	-.23	-168.72	-169.32
LV088	39 38.63	119 50.05	4925.0	979685.86	.91	.06	-167.91	-168.40
LV089	39 38.51	119 49.92	4942.0	979685.52	1.01	1.50	-167.06	-167.45
LV090	39 38.35	119 49.73	5022.0	979680.22	1.20	3.95	-167.33	-167.54

STATION NUMBER	LATITUDE (DEG. MIN.)	LONGITUDE (DEG. MIN.)	ELEV. (FEET)	OBSERVED GRAVITY (MILLIGALS)	TERRAIN CORRECTION (MILLIGALS)	FREE AIR ANOMALY (MILLIGALS)	SIM. HOUGUER ANOMALY (MILLIGALS)	COMP. HOUGUER ANOMALY (MILLIGALS)
LV091	39 38.68	119 52.63	4978.0	979678.27	.86	-2.62	-172.40	-172.45
LV092	39 38.62	119 52.32	4986.0	979678.81	.82	-1.24	-171.29	-171.86
LV093	39 38.73	119 52.10	4977.0	979680.64	.78	-.42	-170.16	-170.79
LV094	39 38.00	119 51.77	4986.0	979679.32	.88	.19	-169.87	-170.40
LV095	39 37.75	119 51.77	5010.0	979678.09	1.04	1.58	-169.29	-169.67
LV096	39 37.53	119 51.77	5024.0	979676.58	1.11	1.71	-169.64	-169.94
LV097	39 37.82	119 51.50	4985.0	979680.02	.96	1.06	-168.96	-169.41
LV098	39 37.72	119 51.23	5095.0	979673.79	1.23	5.32	-168.46	-168.65
LV099	39 37.75	119 50.70	4977.0	979681.22	1.10	1.61	-168.14	-168.45
LV100	39 37.73	119 50.42	5015.0	979678.25	2.07	2.24	-168.80	-168.15
LV101	39 37.92	119 50.50	4976.0	979681.48	1.09	1.53	-168.19	-168.51
LV102	39 38.17	119 50.55	4951.0	979683.58	.87	.91	-167.95	-168.49
LV103	39 38.17	119 50.18	4957.0	979682.86	1.51	.75	-168.31	-168.21
LV104	39 38.40	119 50.25	4933.0	979685.02	.95	.32	-167.93	-168.39
LV105	39 38.58	119 49.77	4938.0	979685.35	1.10	.85	-167.57	-167.88
LV106	39 37.87	119 52.70	5035.0	979673.75	1.07	-.59	-172.31	-172.66
LV107	39 38.10	119 52.70	5010.0	979675.33	1.01	-1.69	-172.57	-172.97
LV108	39 38.35	119 52.67	4987.0	979676.41	.94	-3.15	-173.23	-173.70
LV109	39 38.40	119 52.83	4985.0	979675.97	.96	-3.85	-173.87	-174.32
LV110	39 38.12	119 52.85	5012.0	979673.98	1.03	-2.89	-173.83	-174.21
LV111	39 37.87	119 52.85	5038.0	979672.55	1.12	-1.50	-173.33	-173.63
LV112	39 38.88	119 52.85	4993.0	979675.51	.84	-4.26	-174.56	-175.13
LV113	39 39.05	119 52.73	5005.0	979675.90	.78	-3.00	-173.70	-174.33
LV114	39 39.27	119 52.80	4996.0	979676.71	.77	-3.36	-173.76	-174.40
LV115	39 38.97	119 52.50	5031.0	979675.92	.76	-.41	-172.00	-172.66
LV116	39 39.57	119 52.90	5003.0	979675.84	.73	-4.01	-174.65	-175.33
LV117	39 39.43	119 53.10	4988.0	979674.92	.78	-6.14	-176.26	-176.89
LV118	39 39.17	119 53.13	4984.0	979674.78	.83	-6.27	-176.26	-176.84
LV119	39 38.92	119 53.22	4974.0	979674.07	.89	-7.55	-177.20	-177.71
LV120	39 38.58	119 53.32	4971.0	979673.31	1.01	-8.09	-177.63	-178.03
LV121	39 38.28	119 53.38	5005.0	979671.57	1.11	-6.19	-176.89	-177.20
LV122	39 38.08	119 53.43	5030.0	979670.73	1.20	-4.39	-175.94	-176.16
LV123	39 38.63	119 52.83	4975.0	979676.77	.90	-4.33	-174.01	-174.51
LV01A	39 39.22	119 52.47	5019.0	979676.57	.73	-1.26	-172.44	-173.13
LV124	39 38.58	119 53.53	4965.0	979671.71	1.06	-10.25	-179.59	-179.94
LV125	39 38.40	119 53.60	4967.0	979670.59	1.15	-10.92	-180.33	-180.58
LV126	39 38.18	119 53.88	4970.0	979669.96	1.43	-10.94	-180.45	-180.43
LV127	39 38.17	119 54.15	4971.0	979667.50	1.55	-13.29	-182.84	-182.70
LV128	39 37.90	119 54.17	5020.0	979667.10	1.72	-8.69	-179.90	-179.60
LV129	39 37.65	119 54.18	5090.0	979663.73	1.98	-5.11	-178.71	-178.15
LV130	39 37.42	119 54.22	5178.0	979662.04	2.24	1.81	-174.79	-173.98
LV131	39 37.52	119 54.78	5114.0	979662.56	3.01	-3.83	-178.25	-176.67
LV132	39 37.77	119 54.88	5018.0	979665.61	2.58	-10.17	-181.32	-180.15
LV133	39 37.98	119 55.00	5000.0	979668.73	2.89	-9.06	-179.59	-178.11
LV134	39 38.23	119 55.22	5000.0	979669.33	3.69	-8.83	-179.36	-177.08

STATION NUMBER	LATITUDE (DEG. MIN.)	LONGITUDE (DEG. MIN.)	ELEV. (FEET)	OBSERVED GRAVITY (MILLIGALS)	TERRAIN CORRECTION (MILLIGALS)	FREE AIR ANOMALY (MILLIGALS)	SIM. BOUGUER ANOMALY (MILLIGALS)	COMP. BOUGUER ANOMALY (MILLIGALS)
LV135	39 38.60	119 55.48	4970.0	979670.37	3.05	-11.15	-180.66	-179.02
LV136	39 38.82	119 55.55	4980.0	979670.58	2.86	-10.33	-180.18	-178.73
LV137	39 39.15	119 55.33	4971.0	979670.80	1.77	-11.44	-180.99	-180.62
LV138	39 37.28	119 52.90	5107.0	979668.22	1.56	1.52	-172.66	-172.52
LV139	39 37.62	119 52.85	5073.0	979670.26	1.25	-.13	-173.16	-173.32
LV140	39 38.77	119 55.82	5177.0	979662.69	4.50	.37	-176.20	-173.13
LV141	39 39.10	119 54.72	4968.0	979667.53	1.19	-14.92	-184.36	-184.57
LV142	39 34.30	119 54.72	4975.0	979668.22	1.12	-13.87	-183.55	-183.84
LV143	39 39.57	119 54.72	4982.0	979669.12	1.03	-12.71	-182.63	-183.01
LV144	39 39.52	119 54.23	4977.0	979668.99	.93	-13.23	-182.98	-183.46
LV145	39 39.12	119 54.25	4970.0	979667.63	1.04	-14.66	-184.17	-184.54
LV146	39 40.65	119 51.53	5081.0	979674.39	.67	.27	-173.02	-173.77
LV147	39 40.77	119 51.92	5090.0	979672.72	.62	-.73	-174.33	-175.13
LV148	39 41.05	119 51.92	5123.0	979670.45	.74	-.31	-175.04	-175.73
LV149	39 41.13	119 52.25	5091.0	979670.31	.67	-3.58	-177.21	-177.96
LV150	39 41.42	119 52.37	5083.0	979670.71	.74	-4.36	-177.72	-178.41
LV151	39 41.65	119 52.42	5097.0	979670.64	.93	-3.45	-177.29	-177.78
LV152	39 41.90	119 52.37	5109.0	979671.37	.83	-1.96	-176.21	-176.80
LV153	39 42.18	119 52.32	5111.0	979673.41	1.01	-.15	-174.47	-174.88
LV154	39 42.32	119 51.83	5290.0	979665.85	1.33	8.91	-171.52	-171.63
LV155	39 42.50	119 52.43	5105.0	979673.65	.86	-.95	-175.06	-175.62
LV156	39 42.78	119 52.47	5109.0	979673.39	.87	-1.24	-175.50	-176.05
LV157	39 43.03	119 52.25	5126.0	979673.38	.90	-.03	-174.86	-175.38
LV158	39 43.18	119 52.00	5131.0	979674.75	.95	1.59	-173.41	-173.89
LV159	39 43.58	119 52.05	5140.0	979673.05	.91	.15	-175.16	-175.68
LV160	39 43.23	119 52.58	5152.0	979668.38	.80	-2.88	-178.60	-179.23
LV161	39 43.15	119 53.07	5154.0	979665.57	1.01	-5.38	-181.17	-181.58
LV162	39 43.02	119 53.45	5203.0	979661.75	.85	-4.40	-181.86	-182.45
LV163	39 42.88	119 53.90	5278.0	979658.00	.89	-.90	-180.91	-181.46
LV164	39 42.52	119 54.13	5262.0	979659.13	1.03	-.74	-180.21	-180.62
LV165	39 42.27	119 54.30	5209.0	979662.13	1.03	-2.35	-180.01	-180.42
LV166	39 42.02	119 54.45	5132.0	979666.70	.93	-4.65	-179.69	-180.16
LV167	39 41.82	119 54.48	5161.0	979664.40	.96	-3.93	-179.95	-180.42
LV168	39 41.65	119 54.72	5175.0	979664.63	.83	-2.13	-178.63	-179.23
LV169	39 41.65	119 54.15	5072.0	979668.63	.81	-7.81	-180.80	-181.41
LV170	39 41.67	119 53.60	5037.0	979669.73	.75	-10.03	-181.83	-182.49
LV171	39 41.67	119 52.95	5041.0	979670.55	.72	-8.84	-180.77	-181.46
LV172	39 41.45	119 54.85	5180.0	979664.61	.93	-1.39	-178.06	-178.56
LV173	39 41.20	119 55.05	5189.0	979664.83	.92	.05	-176.93	-177.44
LV174	39 41.25	119 54.15	5051.0	979669.64	.77	-8.18	-180.46	-181.10
LV175	39 41.25	119 54.58	5142.0	979665.50	.88	-3.77	-179.15	-179.70
LV176	39 40.78	119 55.27	5177.0	979665.82	1.07	.53	-176.04	-176.39
LV177	39 40.53	119 55.27	5129.0	979666.91	.91	-2.52	-177.45	-177.97
LV178	39 40.25	119 55.27	5157.0	979662.80	.97	-3.58	-179.47	-179.93
LV179	39 39.92	119 55.27	5080.0	979666.39	1.18	-6.74	-180.01	-180.24

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LV180	39 34.57	119 55.27	5020.0	979668.33	1.47	-9.42	-181.14	-181.08
LV181	39 40.33	119 51.90	5070.0	979674.30	.60	-.38	-173.30	-174.12
LV182	39 40.33	119 51.73	5095.0	979673.15	.72	.82	-172.95	-173.65
LV183	39 40.33	119 51.58	5072.0	979675.34	.86	.85	-172.14	-172.70
LV184	39 42.08	119 54.14	5148.0	979664.41	.93	-5.53	-181.11	-181.60
LV185	39 42.07	119 53.83	5098.0	979667.09	.81	-7.53	-181.40	-182.01
LV186	39 42.08	119 53.55	5072.0	979668.78	.86	-8.30	-181.29	-181.84
LV187	39 42.08	119 53.27	5055.0	979670.24	.74	-8.44	-180.84	-181.52
LV188	39 42.07	119 52.97	5056.0	979670.74	.73	-7.83	-180.27	-180.96
LV189	39 42.07	119 52.68	5065.0	979671.92	.74	-5.80	-178.55	-179.23
LV190	39 42.37	119 51.00	5750.0	979638.14	2.37	24.36	-171.76	-170.87
LV191	39 42.13	119 51.17	5590.0	979648.41	2.14	19.94	-170.71	-170.05
LV192	39 43.15	119 51.67	5260.0	979670.97	1.24	9.98	-169.42	-169.62
LV193	39 43.92	119 51.77	5176.0	979672.11	.92	2.09	-174.45	-174.95
LV194	39 44.20	119 51.35	5223.0	979671.32	1.04	5.30	-172.84	-173.23
LV195	39 44.53	119 50.62	5426.0	979663.34	1.71	15.91	-169.15	-168.90
LV196	39 42.01	119 55.01	5200.0	979667.75	1.42	2.80	-174.55	-174.57
LV197	39 41.65	119 55.63	5390.0	979656.19	1.15	9.64	-174.20	-174.50
LV198	39 39.90	119 54.57	5011.0	979668.76	.94	-10.83	-181.74	-182.21
LV199	39 39.90	119 54.15	4982.0	979670.11	.86	-12.21	-182.12	-182.68
LV200	39 40.18	119 54.30	4996.0	979670.28	.86	-11.13	-181.53	-182.08
LV201	39 40.45	119 54.28	5024.0	979669.97	.83	-9.21	-180.56	-181.15
LV202	39 40.67	119 54.28	5031.0	979669.89	.80	-8.96	-180.55	-181.16
LV203	39 40.45	119 54.57	5070.0	979667.03	.94	-7.83	-180.75	-181.22
LV204	39 40.27	119 54.57	5050.0	979667.81	.99	-8.66	-180.90	-181.32
LV205	39 40.27	119 54.78	5080.0	979665.81	.87	-7.84	-181.10	-181.65
LV206	39 40.03	119 54.80	5042.0	979667.56	.93	-9.31	-181.27	-181.76
LV207	39 39.92	119 55.02	5038.0	979668.05	1.02	-9.03	-180.86	-181.25
LV208	39 40.20	119 55.00	5095.0	979665.31	.94	-6.83	-180.60	-181.08
LV209	39 40.90	119 56.18	5368.0	979657.85	1.15	10.34	-172.75	-173.05
LV210	39 41.22	119 56.63	5494.0	979650.60	1.46	14.46	-172.93	-172.92
LV211	39 39.55	119 56.03	5228.0	979662.08	1.84	3.40	-174.91	-174.50
LV212	39 39.48	119 56.35	5470.0	979646.30	2.48	10.47	-176.09	-175.07
LV213	39 39.57	119 55.75	5150.0	979664.23	1.60	-1.81	-177.45	-177.28
LV214	39 39.90	119 53.70	4985.0	979670.72	.79	-11.31	-181.34	-181.95
LV215	39 40.64	119 53.33	5001.0	979671.56	.71	-10.06	-180.63	-181.33
LV216	39 41.11	119 53.28	5016.0	979671.23	.70	-9.68	-180.76	-181.47
LV217	39 41.07	119 52.87	5038.0	979670.92	.67	-7.86	-179.69	-180.43
LV218	39 40.42	119 52.43	5031.0	979673.23	.64	-5.25	-176.84	-177.62
LV219	39 39.77	119 52.02	5042.0	979677.23	.65	.75	-171.22	-171.98
LV220	39 39.73	119 51.83	5047.0	979677.75	.76	1.79	-170.34	-170.99
LV221	39 40.33	119 52.64	5026.0	979672.08	.65	-6.74	-178.16	-178.92
LV222	39 40.86	119 52.71	5035.0	979671.29	.66	-7.46	-179.19	-179.94
LV223	39 39.81	119 52.56	5021.0	979675.02	.67	-3.50	-174.75	-175.49
LV224	39 39.85	119 53.04	5001.0	979673.68	.72	-6.78	-177.34	-178.03

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LV225	39 34.88	119 53.33	4989.0	979672.09	.75	-9.54	-179.70	-180.35
LV226	39 37.34	119 50.86	4997.0	979678.61	1.04	1.49	-168.94	-169.31
LV227	39 35.61	119 54.07	6220.0	979597.23	4.01	37.60	-174.54	-172.03
LV228	39 36.30	119 51.30	5210.0	979660.48	1.21	4.91	-172.78	-173.00
LV229	39 37.80	119 49.33	5270.0	979663.12	1.08	10.98	-168.76	-169.12
LV230	39 36.88	119 50.85	5063.0	979672.55	.97	2.31	-170.37	-170.82
LV231	39 37.56	119 53.57	5130.0	979664.93	1.59	-.02	-174.98	-174.82
LV232	39 37.81	119 53.50	5080.0	979667.79	1.36	-2.23	-175.49	-175.55
LV233	39 37.40	119 53.62	5201.0	979660.00	1.70	1.96	-175.43	-175.16
LV234	39 42.24	119 48.01	5555.0	979649.73	1.91	17.81	-171.65	-171.21