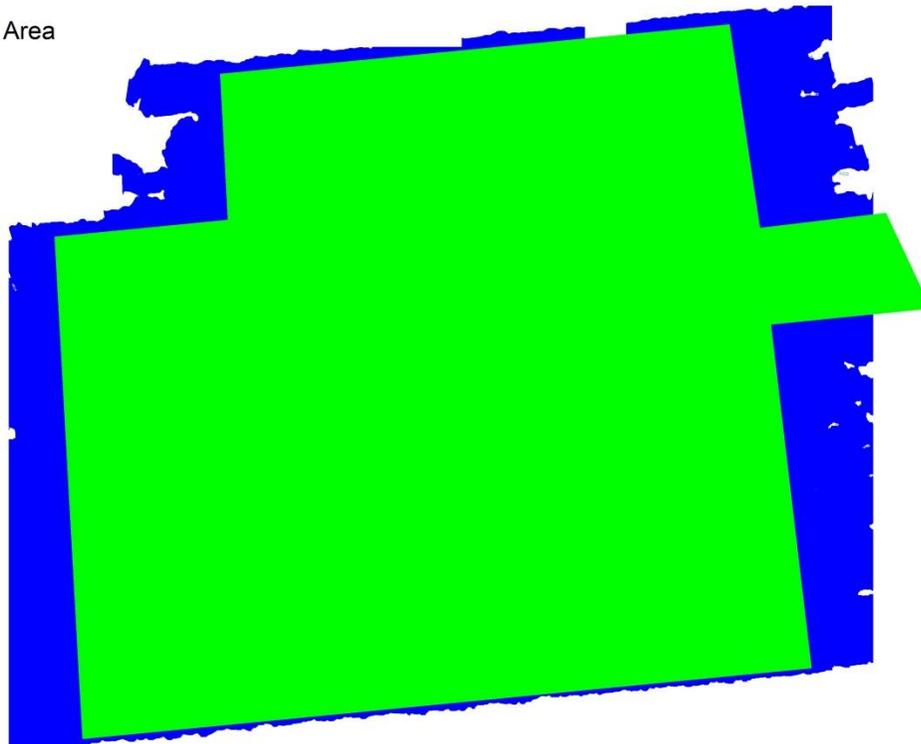
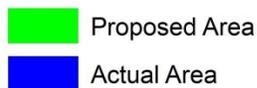


## Boulder Snow On

This report includes the quality of pre-processed Lidar data given by NCALM. Areas of quality covered by this document include completeness of the Lidar data compared to the proposed study area (Area), the average points per square meter for each tile (Point Density) and detailed point density of the entire site (Detailed Point Density), overall point return intensity of the site (Intensity), visual inspection of the hillshade digital elevation model (Hillshade) and the attributes included in the Lidar data.

### Area

Proposed area given by the CZO team is displayed in green in the image below. Actual area that the Lidar flight covered is displayed in blue. Percentage of proposed area falling in actual area is given below image.



99.09% of proposed area falls in Lidar Flight

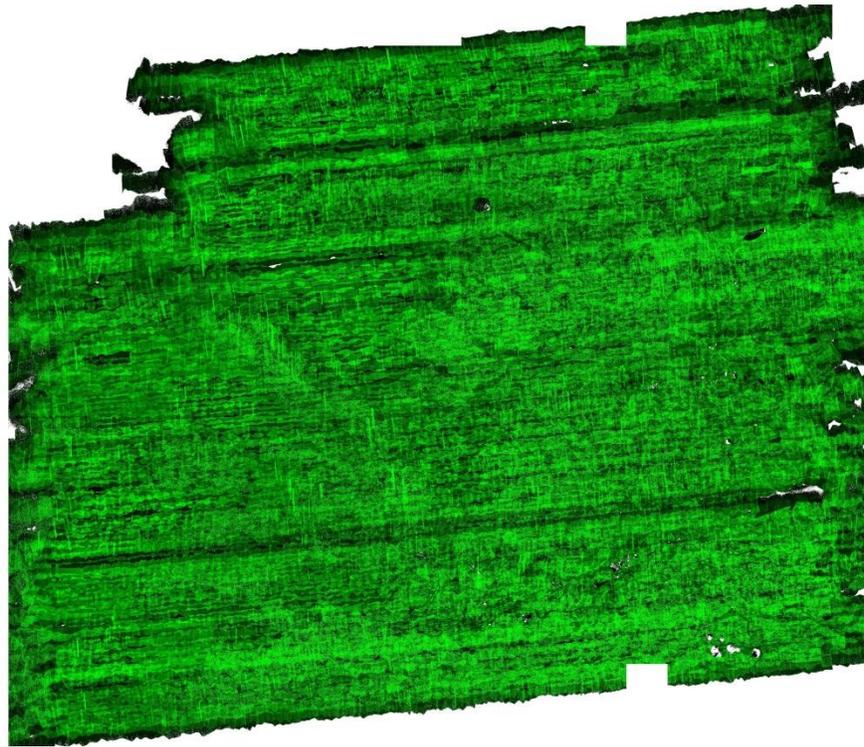
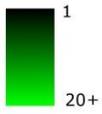
### Tile point density

Individual LAS tiles for CZO site are displayed in the image below. The Gradient color for each tile represents the average number of points per square meter (see legend for color explanation). The tile ID



**Detailed Point Density**

Points Per Square Meter

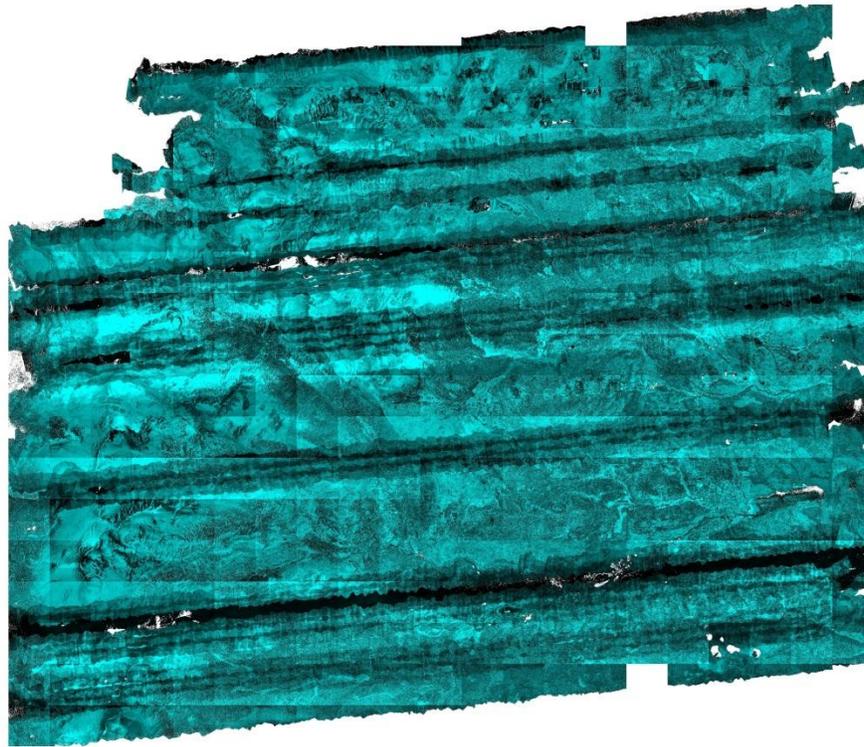
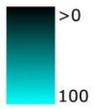


**Intensity**

A point return intensity image is displayed below based on a one meter resolution. A pixel's color saturation corresponds to the average intensity given by the points contained in that pixel. The gradient color ranging from near black (the absence of cyan) represents almost 0 percent intensity value of a pixel to cyan representing 100 percent.

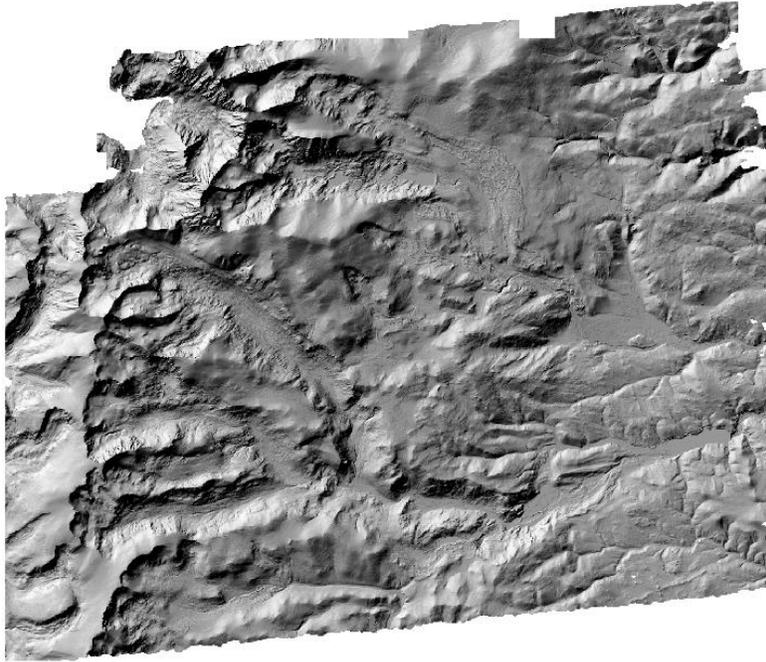
**Return Point Intensity**

Percentage



**Hillshade**

The Digital elevation model is displayed in the image below using hillshading. Overall visual inspection quality is given below image being classified as good or poor.



Visual Inspection: Good

### Included Attributes

Below is a list of the attributes given by LAS file format and whether they have been found to be included in the flight of this CZO site.

- X positions: Yes
- Y positions: Yes
- Z positions: Yes
- Intensity: Yes
- Return Number: Yes
- Number of Returns: Yes
- Scan Direction Flag: Yes
- Edge of Flight Line: Yes
- Classification: Yes
- Scan Angle Rank: Yes
- User Data: Yes

- Point Source ID: Yes
- GPS Time: Yes

### Processing Errors

Below is the list of tiles that experienced an error while processing, the reason for the error and if it was still included in this report.

Tile	Reason	Included
Boulder1_454000_4419000.las	Contained points that were indicated to be located outside of the boundaries given by the tile. These points were excluded from the processing of this tile.	Yes

### LAS tile Index

LAS tile index list includes tile ID (ID), filename (tile), total points (totpts), maximum x (xmax), minimum x (xmin), maximum y (ymax), minimum y (ymin), maximum elevation (zmax), minimum elevation (zmin), average elevation (zavg) and points per square meter (pt/m<sup>2</sup>) for each tile. The last entry of the index gives the overall tile summary where total points represents all points for entire site, maximum x, y and z represents the maximum x, y, and z for entire site respectively, minimum x, y, elevation represents the minimum x, y, elevation for entire site respectively, average elevation represents overall average elevation for site and points per square meter represents the average points per square meter of entire site.

Table 1

ID	tile	totpts	xmax	xmin	ymax	ymin	zmax	zmin	zavg	pt/m <sup>2</sup>
1	Boulder1_439000_4418000.las	5874849	440000	439000	4419000	4418000	3443.95	3079.48	3238.123	5.917307
2	Boulder1_439000_4419000.las	9681632	440000	439000	4420000	4419000	3658.3	3098.58	3273.589	9.696655
3	Boulder1_439000_4420000.las	9231064	440000	439000	4421000	4420000	3481.67	3050.3	3260.729	9.237173
4	Boulder1_439000_4421000.las	9705347	440000	439000	4422000	4421000	3654.68	3142	3361.803	9.750917
5	Boulder1_439000_4422000.las	10193725	440000	439000	4423000	4422000	3558.88	3167.68	3374.926	10.2084
6	Boulder1_439000_4423000.las	9062221	440000	439000	4424000	4423000	3491.44	3080.58	3249.363	9.284312
7	Boulder1_439000_4424000.las	8817810	440000	439000	4425000	4424000	3575.27	3197.12	3385.122	8.877814
8	Boulder1_439000_4425000.las	6913625	440000	439000	4426000	4425000	4069.88	3058.9	3270.63	7.6128
9	Boulder1_439000_4426000.las	5193132	440000	439000	4427000	4426000	3452.71	3001.95	3228.462	5.518476
10	Boulder1_439000_4427000.las	5943670	440000	439000	4428000	4427000	3475.57	3105.65	3281.746	6.071213
11	Boulder1_439000_4428000.las	8156903	440000	439000	4429000	4428000	3596.52	3212.63	3437.283	8.184272
12	Boulder1_439000_4429000.las	6062767	440000	439000	4430000	4429000	3602.31	3257.77	3491.376	6.439535
13	Boulder1_439000_4430000.las	3141584	440000	439000	4430739	4430000	3584.55	3254.78	3396.605	4.992345
14	Boulder1_440000_4418000.las	8164843	441000	440000	4419000	4418000	3585.82	3287.39	3448.56	8.481867
15	Boulder1_440000_4419000.las	10838544	441000	440000	4420000	4419000	3614.47	2818.47	3485.146	10.83745

16	Boulder1_440000_4420000.las	10489446	441000	440000	4421000	4420000	3665.73	3246.62	3420.747	10.51237
17	Boulder1_440000_4421000.las	10893348	441000	440000	4422000	4421000	3697.9	2965.89	3584.925	10.89517
18	Boulder1_440000_4422000.las	9342209	441000	440000	4423000	4422000	3742.99	3174.64	3635.407	9.343309
19	Boulder1_440000_4423000.las	11363164	441000	440000	4424000	4423000	3710.46	3217.26	3507.686	11.3652
20	Boulder1_440000_4424000.las	9845839	441000	440000	4425000	4424000	3674.21	3320.13	3502.095	9.845768
21	Boulder1_440000_4425000.las	11273239	441000	440000	4426000	4425000	3663.22	3265.74	3453.397	11.27654
22	Boulder1_440000_4426000.las	10763805	441000	440000	4427000	4426000	3769.97	3265.32	3540.443	10.76238
23	Boulder1_440000_4427000.las	10203452	441000	440000	4428000	4427000	3827.41	3151.99	3458.953	10.20723
24	Boulder1_440000_4428000.las	8777159	441000	440000	4429000	4428000	3847.84	3205.83	3513.289	8.779845
25	Boulder1_440000_4429000.las	7917991	441000	440000	4430000	4429000	4007.15	3361.56	3497.568	7.917407
26	Boulder1_440000_4430000.las	4382790	441000	440000	4430823	4430000	3623.96	3263.66	3429.785	5.900137
27	Boulder1_441000_4418000.las	7227320	442000	441000	4419000	4418095	3684.4	3353.79	3571.677	8.574049
28	Boulder1_441000_4419000.las	10847425	442000	441000	4420000	4419000	3654.88	3364.07	3535.883	10.84687
29	Boulder1_441000_4420000.las	10793541	442000	441000	4421000	4420000	3658.84	3441.6	3547.617	10.79395
30	Boulder1_441000_4421000.las	11087330	442000	441000	4422000	4421000	3751.3	3314.02	3461.645	11.08722
31	Boulder1_441000_4422000.las	9542165	442000	441000	4423000	4422000	3753.84	3420.06	3545.497	9.541288
32	Boulder1_441000_4423000.las	11895431	442000	441000	4424000	4423000	3775.35	3418.83	3629.92	11.89489
33	Boulder1_441000_4424000.las	10049239	442000	441000	4425000	4424000	3696.99	3376.24	3505.305	10.05084
34	Boulder1_441000_4425000.las	10499629	442000	441000	4426000	4425000	3853.21	3394.36	3605.371	10.50061
35	Boulder1_441000_4426000.las	10304764	442000	441000	4427000	4426000	3853.31	3019.48	3713.104	10.30371
36	Boulder1_441000_4427000.las	9224813	442000	441000	4428000	4427000	3939.41	3194.31	3755.393	9.240769
37	Boulder1_441000_4428000.las	9234586	442000	441000	4429000	4428000	3916.55	3121.13	3654.735	9.234784
38	Boulder1_441000_4429000.las	8090901	442000	441000	4430000	4429000	3886.59	3234.19	3661.902	8.111027
39	Boulder1_441000_4430000.las	5614213	442000	441000	4431000	4430000	3791.28	3328.09	3466.55	6.104074
40	Boulder1_441000_4431000.las	554002	442000	441301.8	4432000	4431000	3610.26	2810.57	3376.73	3.089371
41	Boulder1_441000_4432000.las	285648	442000	441513.4	4432403	4432000	3431.69	3205.7	3299.907	1.968839
42	Boulder1_441000_4433000.las	124233	442000	441838.5	4434000	4433560	3506.23	3082.91	3361.781	2.680619
43	Boulder1_441000_4434000.las	69945	442000	441887.3	4434221	4434000	3569.29	3453.25	3519.802	3.515173
44	Boulder1_442000_4418000.las	6852341	443000	442000	4419000	4418127	3571.12	2766.46	3356.895	8.650809
45	Boulder1_442000_4419000.las	11429632	443000	442000	4420000	4419000	3632.06	2769.22	3402.132	11.42912
46	Boulder1_442000_4420000.las	11135840	443000	442000	4421000	4420000	3678.47	2787.55	3536.164	11.13604
47	Boulder1_442000_4421000.las	10945994	443000	442000	4422000	4421000	3611.66	3212.97	3394.07	10.94467
48	Boulder1_442000_4422000.las	9750109	443000	442000	4423000	4422000	3632.94	3221.43	3413.904	9.752765
49	Boulder1_442000_4423000.las	10543958	443000	442000	4424000	4423000	3736.75	3372.58	3540.867	10.54204
50	Boulder1_442000_4424000.las	10384823	443000	442000	4425000	4424000	3549.98	3214.84	3356.801	10.38372
51	Boulder1_442000_4425000.las	10616492	443000	442000	4426000	4425000	3731.71	3296.68	3481.354	10.61567
52	Boulder1_442000_4426000.las	10638656	443000	442000	4427000	4426000	3755.56	3145.9	3601.651	10.63982
53	Boulder1_442000_4427000.las	10744492	443000	442000	4428000	4427000	3895.27	3170.94	3664.562	10.74621
54	Boulder1_442000_4428000.las	9298105	443000	442000	4429000	4428000	3691.41	3190.14	3515.496	9.298339
55	Boulder1_442000_4429000.las	8533718	443000	442000	4430000	4429000	3725.73	3412.69	3558.15	8.533132
56	Boulder1_442000_4430000.las	6800648	443000	442000	4431000	4430000	3922.95	3226.26	3401.325	6.809708

57	Boulder1_442000_4431000.las	2270370	443000	442000	4432000	4431000	3377.79	3135.64	3231.902	2.809008
58	Boulder1_442000_4432000.las	577638	443000	442000	4433000	4432000	4425.64	3127.94	3260.513	3.29843
59	Boulder1_442000_4433000.las	2204244	443000	442000	4434000	4433000	4493.21	3215.86	3397.838	3.903362
60	Boulder1_442000_4434000.las	2720422	443000	442000	4434722	4434000	3698.76	2121.36	3490.364	5.031725
61	Boulder1_443000_4418000.las	6766437	444000	443000	4419000	4418200	3529.03	3137.58	3264.987	9.692988
62	Boulder1_443000_4419000.las	12721247	444000	443000	4420000	4419000	3649.7	2816.71	3306.661	12.71899
63	Boulder1_443000_4420000.las	11985957	444000	443000	4421000	4420000	3596.07	2740.43	3347.558	11.98433
64	Boulder1_443000_4421000.las	10948281	444000	443000	4422000	4421000	3608.98	3140.43	3385.94	10.94738
65	Boulder1_443000_4422000.las	10071823	444000	443000	4423000	4422000	3441.69	3144.62	3286.174	10.07552
66	Boulder1_443000_4423000.las	11251102	444000	443000	4424000	4423000	3617	3290.33	3436.392	11.25307
67	Boulder1_443000_4424000.las	11586208	444000	443000	4425000	4424000	3777.88	3162.59	3290.711	11.58759
68	Boulder1_443000_4425000.las	10994271	444000	443000	4426000	4425000	3609.05	3256.2	3354.866	10.99741
69	Boulder1_443000_4426000.las	10409024	444000	443000	4427000	4426000	3688.17	3406.29	3530.848	10.40745
70	Boulder1_443000_4427000.las	11075117	444000	443000	4428000	4427000	3703.64	2975.51	3506.45	11.07428
71	Boulder1_443000_4428000.las	10171933	444000	443000	4429000	4428000	3773.29	3098.97	3362.747	10.16939
72	Boulder1_443000_4429000.las	8645867	444000	443000	4430000	4429000	3877.05	3379.25	3536.128	8.642684
73	Boulder1_443000_4430000.las	10479309	444000	443000	4431000	4430000	3835.09	3315.76	3524.676	10.48258
74	Boulder1_443000_4431000.las	8633572	444000	443000	4432000	4431000	3931.69	1908.61	3601.164	8.648262
75	Boulder1_443000_4432000.las	7364985	444000	443000	4433000	4432000	3897.75	3209.03	3474.7	7.374553
76	Boulder1_443000_4433000.las	4615213	444000	443000	4434000	4433000	3759.45	3196.93	3430.974	5.425523
77	Boulder1_443000_4434000.las	4288592	444000	443000	4434677	4434000	3928.64	3436.21	3669.628	6.984031
78	Boulder1_444000_4418000.las	5683756	445000	444000	4419000	4418384	3339.14	3220.12	3289.455	10.05361
79	Boulder1_444000_4419000.las	14013515	445000	444000	4420000	4419000	3479.64	3112.83	3220.904	14.00947
80	Boulder1_444000_4420000.las	13122067	445000	444000	4421000	4420000	3581.6	3126.86	3268.663	13.1244
81	Boulder1_444000_4421000.las	12475221	445000	444000	4422000	4421000	3463.73	3079.28	3274.51	12.47267
82	Boulder1_444000_4422000.las	9936485	445000	444000	4423000	4422000	3425.18	3050.84	3201.624	9.938423
83	Boulder1_444000_4423000.las	11382217	445000	444000	4424000	4423000	3456.89	3101.78	3293.358	11.38687
84	Boulder1_444000_4424000.las	10974642	445000	444000	4425000	4424000	3426.52	3129.24	3210.401	10.97609
85	Boulder1_444000_4425000.las	10299406	445000	444000	4426000	4425000	3616.82	3205.65	3409.014	10.30241
86	Boulder1_444000_4426000.las	10242675	445000	444000	4427000	4426000	3675.99	3341.16	3512.962	10.2401
87	Boulder1_444000_4427000.las	12672643	445000	444000	4428000	4427000	3577.46	2882.14	3316.644	12.67205
88	Boulder1_444000_4428000.las	11057540	445000	444000	4429000	4428000	3672.83	3145.02	3310.554	11.05779
89	Boulder1_444000_4429000.las	8642064	445000	444000	4430000	4429000	4035.37	3409.23	3689.982	8.640225
90	Boulder1_444000_4430000.las	10406413	445000	444000	4431000	4430000	4119.97	3689.55	3898.737	10.41028
91	Boulder1_444000_4431000.las	10723078	445000	444000	4432000	4431000	4104.72	3496.11	3756.278	10.72354
92	Boulder1_444000_4432000.las	9048953	445000	444000	4433000	4432000	3847.79	3276.99	3423.135	9.048188
93	Boulder1_444000_4433000.las	9460257	445000	444000	4434000	4433000	4090.5	3266.15	3650.013	9.45829
94	Boulder1_444000_4434000.las	5495590	445000	444000	4434768	4434000	4099.97	3555.09	3911.658	8.405923
95	Boulder1_445000_4418000.las	3849504	446000	445000	4419000	4418487	3330.55	3225.51	3280.009	8.43027
96	Boulder1_445000_4419000.las	13837002	446000	445000	4420000	4419000	3419	3035.88	3137.371	13.83426
97	Boulder1_445000_4420000.las	15149550	446000	445000	4421000	4420000	3391.31	2731.19	3212.144	15.1476

98	Boulder1_445000_4421000.las	12888048	446000	445000	4422000	4421000	3386.43	3077.25	3278.191	12.89166
99	Boulder1_445000_4422000.las	10269150	446000	445000	4423000	4422000	3344.61	2997.18	3096.532	10.27407
100	Boulder1_445000_4423000.las	10844639	446000	445000	4424000	4423000	3332.14	2965.9	3127.122	10.8447
101	Boulder1_445000_4424000.las	11206809	446000	445000	4425000	4424000	3332.34	2982.33	3135.487	11.20615
102	Boulder1_445000_4425000.las	10397360	446000	445000	4426000	4425000	3464.39	3265.56	3352.95	10.39613
103	Boulder1_445000_4426000.las	11589254	446000	445000	4427000	4426000	3589.28	3073.74	3323.299	11.58581
104	Boulder1_445000_4427000.las	14153871	446000	445000	4428000	4427000	3725.26	3066.48	3156.644	14.15747
105	Boulder1_445000_4428000.las	10711495	446000	445000	4429000	4428000	3712.44	3142.74	3423.777	10.7129
106	Boulder1_445000_4429000.las	8617515	446000	445000	4430000	4429000	3973.1	3600.46	3820.243	8.71762
107	Boulder1_445000_4430000.las	10645863	446000	445000	4431000	4430000	3945.75	3474.01	3663.386	10.64473
108	Boulder1_445000_4431000.las	10528421	446000	445000	4432000	4431000	4145.12	3432.46	3698.513	10.52914
109	Boulder1_445000_4432000.las	8738505	446000	445000	4433000	4432000	3930.17	3272.56	3712.05	8.740893
110	Boulder1_445000_4433000.las	10383514	446000	445000	4434000	4433000	4129.78	3532.97	3807.562	10.38774
111	Boulder1_445000_4434000.las	6793263	446000	445000	4434842	4434000	4140.34	3469.3	3729.83	8.560752
112	Boulder1_446000_4418000.las	3278882	447000	446000	4419000	4418577	3273.73	3077.49	3179.098	9.122102
113	Boulder1_446000_4419000.las	13180579	447000	446000	4420000	4419000	3414.59	2981.89	3129.042	13.1801
114	Boulder1_446000_4420000.las	16744423	447000	446000	4421000	4420000	3266.38	2960.5	3089.29	16.74861
115	Boulder1_446000_4421000.las	11914502	447000	446000	4422000	4421000	3579.7	3171.18	3245.944	11.91509
116	Boulder1_446000_4422000.las	10632902	447000	446000	4423000	4422000	3260.95	2927.73	3046.531	10.63427
117	Boulder1_446000_4423000.las	10714395	447000	446000	4424000	4423000	3254.87	2927.27	3011.292	10.72909
118	Boulder1_446000_4424000.las	12242656	447000	446000	4425000	4424000	3338.85	2987.56	3213.898	12.24365
119	Boulder1_446000_4425000.las	10820856	447000	446000	4426000	4425000	3418.89	3019.88	3257.34	10.82163
120	Boulder1_446000_4426000.las	12439546	447000	446000	4427000	4426000	3352.5	3003.32	3115.817	12.44136
121	Boulder1_446000_4427000.las	11158480	447000	446000	4428000	4427000	3564.26	3064.32	3340.066	11.158
122	Boulder1_446000_4428000.las	9700110	447000	446000	4429000	4428000	3822.16	2955.14	3636.359	9.699601
123	Boulder1_446000_4429000.las	8691248	447000	446000	4430000	4429000	3945.01	3689.34	3813.388	8.740592
124	Boulder1_446000_4430000.las	10639296	447000	446000	4431000	4430000	3908.56	3285.79	3575.605	10.64068
125	Boulder1_446000_4431000.las	11105311	447000	446000	4432000	4431000	4220.71	3227.56	3417.06	11.10619
126	Boulder1_446000_4432000.las	9343978	447000	446000	4433000	4432000	3882.17	3413.49	3633.799	9.343987
127	Boulder1_446000_4433000.las	10172002	447000	446000	4434000	4433000	4001.3	3560.88	3754.762	10.17262
128	Boulder1_446000_4434000.las	7267139	447000	446000	4434945	4434000	3918.81	3437.78	3691.955	7.973781
129	Boulder1_447000_4418000.las	2330723	448000	447000	4419000	4418675	3146	3042.7	3098.9	8.65529
130	Boulder1_447000_4419000.las	13502776	448000	447000	4420000	4419000	3148.85	2926	3037.023	13.50201
131	Boulder1_447000_4420000.las	16080985	448000	447000	4421000	4420000	3221.9	2905.32	3045.498	16.0843
132	Boulder1_447000_4421000.las	11166238	448000	447000	4422000	4421000	3298.09	2546.81	3203.873	11.16713
133	Boulder1_447000_4422000.las	11333717	448000	447000	4423000	4422000	3230.46	2808.26	2972.787	11.34177
134	Boulder1_447000_4423000.las	11009364	448000	447000	4424000	4423000	3272.39	2844.59	3044.45	11.00744
135	Boulder1_447000_4424000.las	12288004	448000	447000	4425000	4424000	3416.46	2945.89	3175.548	12.29442
136	Boulder1_447000_4425000.las	12224677	448000	447000	4426000	4425000	3252.71	2936.24	3053.822	12.22526
137	Boulder1_447000_4426000.las	11418851	448000	447000	4427000	4426000	3426.39	2973.23	3193.034	11.4209
138	Boulder1_447000_4427000.las	11317314	448000	447000	4428000	4427000	3574.84	3326.72	3441.831	11.31582

139	Boulder1_447000_4428000.las	11079991	448000	447000	4429000	4428000	3689.17	3094.21	3586.597	11.08177
140	Boulder1_447000_4429000.las	8901765	448000	447000	4430000	4429000	3859.43	3584.11	3718.796	8.903052
141	Boulder1_447000_4430000.las	9916369	448000	447000	4431000	4430000	4048.3	3210.23	3485.709	9.916954
142	Boulder1_447000_4431000.las	10908788	448000	447000	4432000	4431000	3871.61	3210.01	3308.339	10.91193
143	Boulder1_447000_4432000.las	9020265	448000	447000	4433000	4432000	3845.92	3477.4	3706.683	9.022917
144	Boulder1_447000_4433000.las	9841504	448000	447000	4434000	4433000	4058.29	3398.51	3557.239	9.846257
145	Boulder1_447000_4434000.las	7873383	448000	447000	4435000	4434000	3940.63	3413.33	3655.106	8.163069
146	Boulder1_448000_4418000.las	1408731	449000	448000	4419000	4418764	3133.74	2859.38	3009.216	7.492432
147	Boulder1_448000_4419000.las	13783607	449000	448000	4420000	4419000	3098.72	2863.02	2956.995	13.78372
148	Boulder1_448000_4420000.las	16064836	449000	448000	4421000	4420000	3209.43	2863.31	3024.912	16.06794
149	Boulder1_448000_4421000.las	12762562	449000	448000	4422000	4421000	3248.21	2878.67	3100.199	12.76282
150	Boulder1_448000_4422000.las	12538484	449000	448000	4423000	4422000	3284.09	2733.56	2835.735	12.55859
151	Boulder1_448000_4423000.las	12375576	449000	448000	4424000	4423000	3359.5	2758.69	2888.094	12.3707
152	Boulder1_448000_4424000.las	14704591	449000	448000	4425000	4424000	3128.57	2842.53	2930.245	14.71485
153	Boulder1_448000_4425000.las	10682313	449000	448000	4426000	4425000	3293.58	2922.22	3134.561	10.68542
154	Boulder1_448000_4426000.las	11040403	449000	448000	4427000	4426000	3424.31	3097.02	3213.178	11.03945
155	Boulder1_448000_4427000.las	11426916	449000	448000	4428000	4427000	3500.36	2659.36	3312.001	11.42425
156	Boulder1_448000_4428000.las	11551483	449000	448000	4429000	4428000	3625.43	3211.47	3386.33	11.55107
157	Boulder1_448000_4429000.las	9419728	449000	448000	4430000	4429000	3743.67	2825.92	3538.641	9.43118
158	Boulder1_448000_4430000.las	9683922	449000	448000	4431000	4430000	4046.56	3146	3376.926	9.685374
159	Boulder1_448000_4431000.las	11129021	449000	448000	4432000	4431000	4045.32	2674.48	3276.42	11.13254
160	Boulder1_448000_4432000.las	8462807	449000	448000	4433000	4432000	3747.59	3274.9	3466.699	8.462231
161	Boulder1_448000_4433000.las	10407754	449000	448000	4434000	4433000	4146.71	3274	3449.58	10.40667
162	Boulder1_448000_4434000.las	9480473	449000	448000	4435000	4434000	3983.24	3374.2	3589.028	9.486829
163	Boulder1_449000_4418000.las	742131	450000	449000	4419000	4418774	2912.29	2799.22	2854.592	6.537853
164	Boulder1_449000_4419000.las	13358123	450000	449000	4420000	4419000	2983.51	2802.47	2873.821	13.35517
165	Boulder1_449000_4420000.las	15476658	450000	449000	4421000	4420000	3162.79	2851.7	2965.341	15.48246
166	Boulder1_449000_4421000.las	13156225	450000	449000	4422000	4421000	3147.77	2791.69	2948.933	13.15694
167	Boulder1_449000_4422000.las	12637037	450000	449000	4423000	4422000	3325.44	2696.23	2804.849	12.67309
168	Boulder1_449000_4423000.las	10759180	450000	449000	4424000	4423000	3225.52	2845.54	3025.411	10.75904
169	Boulder1_449000_4424000.las	11876174	450000	449000	4425000	4424000	3151.02	2919.67	3093.463	11.87792
170	Boulder1_449000_4425000.las	10687475	450000	449000	4426000	4425000	3209.16	3064.5	3136.406	10.6877
171	Boulder1_449000_4426000.las	11937648	450000	449000	4427000	4426000	3243.38	3027.07	3088.723	11.93952
172	Boulder1_449000_4427000.las	13921153	450000	449000	4428000	4427000	3302.94	3060.69	3161.165	13.91746
173	Boulder1_449000_4428000.las	13271640	450000	449000	4429000	4428000	3387.25	2932.27	3225.753	13.27317
174	Boulder1_449000_4429000.las	11285374	450000	449000	4430000	4429000	3421.82	3125.63	3229.848	11.28948
175	Boulder1_449000_4430000.las	9138481	450000	449000	4431000	4430000	4015.45	3136.26	3290.645	9.141509
176	Boulder1_449000_4431000.las	11212151	450000	449000	4432000	4431000	3998.1	3121.65	3182.152	11.2365
177	Boulder1_449000_4432000.las	9042059	450000	449000	4433000	4432000	3486.09	3200.86	3284.467	9.046525
178	Boulder1_449000_4433000.las	10538949	450000	449000	4434000	4433000	3979.77	3273.85	3443.645	10.53798
179	Boulder1_449000_4434000.las	10081393	450000	449000	4435000	4434000	3963.38	3406.48	3526.001	10.08513

180	Boulder1_450000_4418000.las	100157	450329.4	450000	4419000	4418876	2972.27	2849.48	2904.038	5.517328
181	Boulder1_450000_4419000.las	12813553	451000	450000	4420000	4419000	3124.99	2853.94	2944.012	13.30184
182	Boulder1_450000_4420000.las	14851191	451000	450000	4421000	4420000	3403.08	2842.53	2894.867	14.88596
183	Boulder1_450000_4421000.las	13459208	451000	450000	4422000	4421000	2991.54	2699.97	2864.524	13.49778
184	Boulder1_450000_4422000.las	13516826	451000	450000	4423000	4422000	3131.9	2649.47	2755.322	13.5624
185	Boulder1_450000_4423000.las	11870994	451000	450000	4424000	4423000	3184.37	2874.93	3025.786	11.87234
186	Boulder1_450000_4424000.las	11913909	451000	450000	4425000	4424000	3177.74	2992.37	3076.945	11.91571
187	Boulder1_450000_4425000.las	11668613	451000	450000	4426000	4425000	3168.13	2989.8	3073.353	11.66775
188	Boulder1_450000_4426000.las	11959275	451000	450000	4427000	4426000	3309.84	2984.53	3025.612	11.96632
189	Boulder1_450000_4427000.las	13854381	451000	450000	4428000	4427000	3161.49	2980.68	3040.107	13.85335
190	Boulder1_450000_4428000.las	14838703	451000	450000	4429000	4428000	3284.65	3031.8	3121.058	14.84036
191	Boulder1_450000_4429000.las	12855422	451000	450000	4430000	4429000	3301.11	3058.3	3142.726	12.85952
192	Boulder1_450000_4430000.las	10796873	451000	450000	4431000	4430000	3401.76	3080.05	3172.618	10.80943
193	Boulder1_450000_4431000.las	10320385	451000	450000	4432000	4431000	3392.04	3107.78	3159.642	10.43502
194	Boulder1_450000_4432000.las	8528954	451000	450000	4433000	4432000	3378.28	3161.5	3262.727	8.546893
195	Boulder1_450000_4433000.las	10542230	451000	450000	4434000	4433000	3953.46	3308.88	3426.755	10.54419
196	Boulder1_450000_4434000.las	10285807	451000	450000	4435000	4434000	3912.21	3296.88	3456.713	10.28859
197	Boulder1_450000_4435000.las	1380101	451000	450000	4435387	4435000	3432.98	3280.15	3368.751	5.18214
198	Boulder1_451000_4419000.las	11105080	452000	451000	4420000	4419025	3387.06	2892.97	3001.382	12.56645
199	Boulder1_451000_4420000.las	15217057	452000	451000	4421000	4420000	3057.77	2828.6	2890.168	15.22023
200	Boulder1_451000_4421000.las	13132176	452000	451000	4422000	4421000	2984.87	2668.14	2811.644	13.20545
201	Boulder1_451000_4422000.las	13374800	452000	451000	4423000	4422000	3031.54	2606.43	2761.938	13.37447
202	Boulder1_451000_4423000.las	12474358	452000	451000	4424000	4423000	3242.46	2776.46	2912.19	12.47535
203	Boulder1_451000_4424000.las	14143310	452000	451000	4425000	4424000	3160.19	2817.15	2950.466	14.14469
204	Boulder1_451000_4425000.las	13358306	452000	451000	4426000	4425000	3364.59	2878.58	3005.435	13.36838
205	Boulder1_451000_4426000.las	12575991	452000	451000	4427000	4426000	3403.92	2949.18	3065.608	12.5768
206	Boulder1_451000_4427000.las	12961009	452000	451000	4428000	4427000	3170.66	2955.19	3014.892	12.96022
207	Boulder1_451000_4428000.las	15506931	452000	451000	4429000	4428000	3162.12	2957.8	3056.295	15.51001
208	Boulder1_451000_4429000.las	14610560	452000	451000	4430000	4429000	3181.59	2980.96	3066.179	14.61167
209	Boulder1_451000_4430000.las	11330547	452000	451000	4431000	4430000	3221.33	3005.48	3083.053	11.34149
210	Boulder1_451000_4431000.las	11761736	452000	451000	4432000	4431000	3881.53	3057.31	3134.747	11.76364
211	Boulder1_451000_4432000.las	9735837	452000	451000	4433000	4432000	3383.67	3167.94	3241.892	9.74142
212	Boulder1_451000_4433000.las	9920844	452000	451000	4434000	4433000	3928.28	3310.29	3437.79	9.923245
213	Boulder1_451000_4434000.las	11020584	452000	451000	4435000	4434000	3502.27	3260.44	3371.156	11.01956
214	Boulder1_451000_4435000.las	2287283	452000	451000	4435387	4435000	3307.05	3245.31	3261.036	6.479612
215	Boulder1_452000_4419000.las	10806619	453000	452000	4420000	4419209	3077.29	2854.57	2944.253	14.38808
216	Boulder1_452000_4420000.las	14771258	453000	452000	4421000	4420000	3046.58	2843.98	2959.468	14.77308
217	Boulder1_452000_4421000.las	14507905	453000	452000	4422000	4421000	2955.21	2596.05	2711.578	14.56366
218	Boulder1_452000_4422000.las	13050052	453000	452000	4423000	4422000	2998.24	2622.18	2782.244	13.05509
219	Boulder1_452000_4423000.las	12356247	453000	452000	4424000	4423000	2978.94	2656.36	2804.233	12.35413
220	Boulder1_452000_4424000.las	13992258	453000	452000	4425000	4424000	3042.34	2666.14	2782.529	13.99665

221	Boulder1_452000_4425000.las	13487126	453000	452000	4426000	4425000	3177.6	2775.84	2927.185	13.48715
222	Boulder1_452000_4426000.las	13193691	453000	452000	4427000	4426000	3075.75	2756.15	2929.58	13.19441
223	Boulder1_452000_4427000.las	12115861	453000	452000	4428000	4427000	3309.92	2899.4	2981.015	12.12704
224	Boulder1_452000_4428000.las	13977436	453000	452000	4429000	4428000	3187.67	2856.37	2946.64	13.97761
225	Boulder1_452000_4429000.las	13506150	453000	452000	4430000	4429000	3094.88	2916.55	2998.452	13.50918
226	Boulder1_452000_4430000.las	11312345	453000	452000	4431000	4430000	3287.42	2997.51	3075.601	11.31764
227	Boulder1_452000_4431000.las	12569272	453000	452000	4432000	4431000	3643.3	3075.16	3141.436	12.5711
228	Boulder1_452000_4432000.las	11582288	453000	452000	4433000	4432000	3335.62	3096.13	3180.01	11.59012
229	Boulder1_452000_4433000.las	8271200	453000	452000	4434000	4433000	3779	3155.06	3358.749	8.460609
230	Boulder1_452000_4434000.las	10376985	453000	452000	4435000	4434000	3719.11	3271.31	3413.273	10.40283
231	Boulder1_452000_4435000.las	3732798	453000	452000	4435492	4435000	3394.53	3245.37	3298.471	8.23854
232	Boulder1_453000_4419000.las	9658193	454000	453000	4420000	4419262	2943.94	2765.38	2868.175	14.33774
233	Boulder1_453000_4420000.las	15542100	454000	453000	4421000	4420000	2994.66	2766.04	2875.362	15.54472
234	Boulder1_453000_4421000.las	12511803	454000	453000	4422000	4421000	2934.04	2588.05	2755.516	12.52902
235	Boulder1_453000_4422000.las	11724259	454000	453000	4423000	4422000	3019.57	2579.89	2635.63	11.98836
236	Boulder1_453000_4423000.las	12235119	454000	453000	4424000	4423000	2997.78	2586.09	2651.599	12.24119
237	Boulder1_453000_4424000.las	13106578	454000	453000	4425000	4424000	2798.31	2584.98	2684.648	13.10762
238	Boulder1_453000_4425000.las	13235981	454000	453000	4426000	4425000	3131.31	2672.98	2828.167	13.23734
239	Boulder1_453000_4426000.las	12602826	454000	453000	4427000	4426000	3179.92	2622.16	2772.032	12.60286
240	Boulder1_453000_4427000.las	12455096	454000	453000	4428000	4427000	3171.08	2680.05	2885.95	12.4535
241	Boulder1_453000_4428000.las	13404809	454000	453000	4429000	4428000	3134.01	2757.58	2870.953	13.41047
242	Boulder1_453000_4429000.las	13623938	454000	453000	4430000	4429000	3194.1	2867.93	2999.42	13.62562
243	Boulder1_453000_4430000.las	11567682	454000	453000	4431000	4430000	3204.95	2942.85	3052.518	11.56941
244	Boulder1_453000_4431000.las	12758898	454000	453000	4432000	4431000	3582.81	2931.02	3035.218	12.75946
245	Boulder1_453000_4432000.las	13924723	454000	453000	4433000	4432000	3379.91	2920.21	3034.838	13.93094
246	Boulder1_453000_4433000.las	8816137	454000	453000	4434000	4433000	3652.17	2722.21	3191.99	8.858458
247	Boulder1_453000_4434000.las	8020766	454000	453000	4435000	4434000	3477.37	3107.73	3303.423	8.063852
248	Boulder1_454000_4419000.las	7254299	455000	454000	4420000	4419347	2822.38	2822.38	2822.38	0.132979
249	Boulder1_454000_4420000.las	15207877	455000	454000	4421000	4420000	2856.09	2650.83	2766.745	15.20711
250	Boulder1_454000_4421000.las	15174787	455000	454000	4422000	4421000	3000.37	2647.27	2719.61	15.19149
251	Boulder1_454000_4422000.las	12529644	455000	454000	4423000	4422000	2946.34	2558.83	2601.239	12.66348
252	Boulder1_454000_4423000.las	10784875	455000	454000	4424000	4423000	2811.19	2549.76	2637.067	10.78862
253	Boulder1_454000_4424000.las	12949650	455000	454000	4425000	4424000	2805.72	2567.26	2657.481	12.94912
254	Boulder1_454000_4425000.las	13433625	455000	454000	4426000	4425000	2984.1	2601.2	2685.555	13.43362
255	Boulder1_454000_4426000.las	12175680	455000	454000	4427000	4426000	2988.83	2580.37	2642.162	12.26969
256	Boulder1_454000_4427000.las	12584306	455000	454000	4428000	4427000	2854.65	2601.81	2699.614	12.58166
257	Boulder1_454000_4428000.las	14205185	455000	454000	4429000	4428000	3292.07	2676.52	2781.575	14.20485
258	Boulder1_454000_4429000.las	14629889	455000	454000	4430000	4429000	3100.6	2806.04	2899.755	14.62735
259	Boulder1_454000_4430000.las	13729612	455000	454000	4431000	4430000	3090.55	2490.77	2892.593	13.73355
260	Boulder1_454000_4431000.las	12248109	455000	454000	4432000	4431000	3468.53	2505.69	2900.267	12.25783
261	Boulder1_454000_4432000.las	12936379	455000	454000	4433000	4432000	3247.17	2774.37	2920.958	12.93666

262	Boulder1_454000_4433000.las	7917064	455000	454000	4434000	4433000	3630.57	2822.46	3005.573	7.941031
263	Boulder1_454000_4434000.las	8975512	455000	454000	4435000	4434000	3628.37	2713.34	3006.981	9.002436
264	Boulder1_454000_4435000.las	6564041	455000	454000	4435718	4435000	3218.43	2972.29	3073.084	10.11476
265	Boulder1_455000_4419000.las	5687082	456000	455000	4420000	4419458	2828.27	2643.4	2721.335	11.2773
266	Boulder1_455000_4420000.las	14768101	456000	455000	4421000	4420000	2763.77	2589.46	2669.317	14.84796
267	Boulder1_455000_4421000.las	15164094	456000	455000	4422000	4421000	2695.29	2588.29	2645.353	15.18655
268	Boulder1_455000_4422000.las	13669206	456000	455000	4423000	4422000	2876.93	2548.49	2620.264	13.70191
269	Boulder1_455000_4423000.las	11244842	456000	455000	4424000	4423000	2747.91	2487.41	2571.468	11.27939
270	Boulder1_455000_4424000.las	11642319	456000	455000	4425000	4424000	2709.44	2527.97	2601.957	11.65003
271	Boulder1_455000_4425000.las	12744976	456000	455000	4426000	4425000	2864.47	2543.15	2611.165	12.7447
272	Boulder1_455000_4426000.las	12546777	456000	455000	4427000	4426000	2644.58	2525.77	2586.113	12.63438
273	Boulder1_455000_4427000.las	11678563	456000	455000	4428000	4427000	2815.86	2539.38	2604.705	11.68463
274	Boulder1_455000_4428000.las	13346343	456000	455000	4429000	4428000	2843.79	2572.02	2673.116	13.34582
275	Boulder1_455000_4429000.las	14531252	456000	455000	4430000	4429000	2953.77	2588.45	2746.154	14.53074
276	Boulder1_455000_4430000.las	12924932	456000	455000	4431000	4430000	3016.43	2696.12	2776.419	12.92889
277	Boulder1_455000_4431000.las	12404588	456000	455000	4432000	4431000	3406.07	2703.24	2812.684	12.40627
278	Boulder1_455000_4432000.las	12406790	456000	455000	4433000	4432000	3576.13	2738.15	2823.464	12.4042
279	Boulder1_455000_4433000.las	8791007	456000	455000	4434000	4433000	3533.86	2687.38	2870.395	8.790157
280	Boulder1_455000_4434000.las	10689297	456000	455000	4435000	4434000	3577.1	2591.48	2843.598	10.69176
281	Boulder1_455000_4435000.las	7736065	456000	455000	4435829	4435000	3089.53	2600.37	2911.525	10.06071
282	Boulder1_456000_4419000.las	3846146	457000	456000	4420000	4419538	2933.23	2607.72	2639.196	9.495748
283	Boulder1_456000_4420000.las	12221314	457000	456000	4421000	4420000	3027.42	2572.71	2629.845	13.44359
284	Boulder1_456000_4421000.las	14853067	457000	456000	4422000	4421000	2744.36	2558.66	2614.066	14.87052
285	Boulder1_456000_4422000.las	13932611	457000	456000	4423000	4422000	2925.09	2556.96	2642.663	13.93599
286	Boulder1_456000_4423000.las	10297294	457000	456000	4424000	4423000	2834.34	2487.21	2538.919	10.32318
287	Boulder1_456000_4424000.las	11638578	457000	456000	4425000	4424000	2879.98	2498.24	2585.917	11.63988
288	Boulder1_456000_4425000.las	11942193	457000	456000	4426000	4425000	2653.86	2509.05	2557.334	12.0289
289	Boulder1_456000_4426000.las	11390223	457000	456000	4427000	4426000	2797.48	2500.91	2546.462	11.46735
290	Boulder1_456000_4427000.las	10395516	457000	456000	4428000	4427000	2998.36	2502.74	2562.727	10.50502
291	Boulder1_456000_4428000.las	11662343	457000	456000	4429000	4428000	2954.88	2546.49	2649.31	11.66025
292	Boulder1_456000_4429000.las	13530142	457000	456000	4430000	4429000	2991.55	2590.33	2723.349	13.55312
293	Boulder1_456000_4430000.las	11134153	457000	456000	4431000	4430000	3236.38	2706.81	2785.964	11.14665
294	Boulder1_456000_4431000.las	10632122	457000	456000	4432000	4431000	3416.27	2657.5	2764.312	10.62931
295	Boulder1_456000_4432000.las	11746868	457000	456000	4433000	4432000	3635.38	2722.86	2824.149	11.74644
296	Boulder1_456000_4433000.las	9534083	457000	456000	4434000	4433000	3514.75	2614.37	2771.243	9.540176
297	Boulder1_456000_4434000.las	10308018	457000	456000	4435000	4434000	3527.31	2611.83	2763.061	10.3124
298	Boulder1_456000_4435000.las	8580336	457000	456000	4435921	4435000	3367.05	2698.23	2807.149	9.971796
299	Boulder1_457000_4419000.las	2320914	458000	457000	4420000	4419640	2672.06	2608.41	2627.596	7.770763
300	Boulder1_457000_4420000.las	13072718	458000	457000	4421000	4420000	2677.04	2554.8	2620.991	13.32958
301	Boulder1_457000_4421000.las	14898507	458000	457000	4422000	4421000	2801.07	2523.1	2585.233	14.9193
302	Boulder1_457000_4422000.las	14432297	458000	457000	4423000	4422000	3014.91	2556	2627.072	14.43476

303	Boulder1_457000_4423000.las	9595225	458000	457000	4424000	4423000	2751.22	2488.31	2548.553	9.61647
304	Boulder1_457000_4424000.las	10375058	458000	457000	4425000	4424000	2607.88	2488.47	2553.647	10.61952
305	Boulder1_457000_4425000.las	11613615	458000	457000	4426000	4425000	2674.46	2494.92	2578.583	11.64119
306	Boulder1_457000_4426000.las	11597702	458000	457000	4427000	4426000	2598.47	2466.57	2515.304	11.60829
307	Boulder1_457000_4427000.las	10524543	458000	457000	4428000	4427000	2884.45	2499.67	2584.863	10.53205
308	Boulder1_457000_4428000.las	11578843	458000	457000	4429000	4428000	2988.91	2600.49	2667.209	11.57716
309	Boulder1_457000_4429000.las	12954563	458000	457000	4430000	4429000	2822.81	2637.54	2701.743	12.95273
310	Boulder1_457000_4430000.las	11658792	458000	457000	4431000	4430000	3065.03	2710.46	2768.306	11.7318
311	Boulder1_457000_4431000.las	9089266	458000	457000	4432000	4431000	3453.28	2334.81	2740.423	9.087643
312	Boulder1_457000_4432000.las	11471646	458000	457000	4433000	4432000	3481.7	2678.78	2779.617	11.47349
313	Boulder1_457000_4433000.las	7831529	458000	457000	4434000	4433000	3431.24	2584.08	2776.297	7.856138
314	Boulder1_457000_4434000.las	8607137	458000	457000	4435000	4434000	3378.42	2556.06	2682.363	8.672837
315	Boulder1_457000_4435000.las	7075974	458000	457000	4435938	4435000	3043.72	2681.01	2778.976	7.983061
316	Boulder1_458000_4419000.las	1376203	459000	458000	4420000	4419726	2695.95	2570.11	2636.42	6.886529
317	Boulder1_458000_4420000.las	12509522	459000	458000	4421000	4420000	2697.47	2506.8	2588.523	12.51213
318	Boulder1_458000_4421000.las	14875257	459000	458000	4422000	4421000	2984.63	2516.76	2601.971	14.87753
319	Boulder1_458000_4422000.las	13918247	459000	458000	4423000	4422000	2717.4	2567.14	2643.411	13.92372
320	Boulder1_458000_4423000.las	12360455	459000	458000	4424000	4423000	2635.88	2476.34	2564.415	12.38647
321	Boulder1_458000_4424000.las	8037529	459000	458000	4425000	4424000	2766.93	2443.32	2529.096	8.608709
322	Boulder1_458000_4425000.las	12141649	459000	458000	4426000	4425000	2919.97	2513.84	2595.961	12.29862
323	Boulder1_458000_4426000.las	11438011	459000	458000	4427000	4426000	2909.28	1092.27	2515.984	11.44457
324	Boulder1_458000_4427000.las	8472963	459000	458000	4428000	4427000	2730.03	1883.46	2567.831	8.490042
325	Boulder1_458000_4428000.las	10994579	459000	458000	4429000	4428000	2770.38	2515.33	2594.393	10.99612
326	Boulder1_458000_4429000.las	13417726	459000	458000	4430000	4429000	2735.14	2561.4	2649.923	13.41927
327	Boulder1_458000_4430000.las	13415363	459000	458000	4431000	4430000	2900.8	2558.9	2701.233	13.42012
328	Boulder1_458000_4431000.las	7420218	459000	458000	4432000	4431000	3355.97	2422.1	2618.878	7.435638
329	Boulder1_458000_4432000.las	8190925	459000	458000	4433000	4432000	3431.98	2445.72	2703.976	8.20636
330	Boulder1_458000_4433000.las	4706300	459000	458000	4434000	4433000	3415.6	2610.69	2718.11	5.129216
331	Boulder1_458000_4434000.las	4658645	459000	458000	4435000	4434000	2745.65	2459.49	2637.118	5.495697
332	Boulder1_458000_4435000.las	4736333	459000	458000	4436000	4435000	2793.9	2567.06	2685.844	5.133735
333	Boulder1_459000_4419000.las	96135	459675	459000	4420000	4419859	2597.25	2554.02	2572.145	4.724564
334	Boulder1_459000_4420000.las	7538130	460000	459000	4421000	4420000	2603.97	2476.25	2544.115	7.684995
335	Boulder1_459000_4421000.las	8658124	460000	459000	4422000	4421000	2699.26	2532.99	2625.785	9.223231
336	Boulder1_459000_4422000.las	8014239	460000	459000	4423000	4422000	2698.9	2583.92	2628.75	8.033265
337	Boulder1_459000_4423000.las	8240604	460000	459000	4424000	4423000	2667.81	2478.54	2583.931	8.400088
338	Boulder1_459000_4424000.las	8432035	460000	459000	4425000	4424000	2769.84	1044.75	2488.492	8.598937
339	Boulder1_459000_4425000.las	7375643	460000	459000	4426000	4425000	2911.06	2468.45	2540.705	7.844491
340	Boulder1_459000_4426000.las	7652006	460000	459000	4427000	4426000	3029.82	937.62	2474.707	8.125077
341	Boulder1_459000_4427000.las	4534748	460000	459000	4428000	4427000	2896.03	2461.51	2536.325	5.354977
342	Boulder1_459000_4428000.las	9870549	460000	459000	4429000	4428000	2914.35	1050.31	2544.89	9.882844
343	Boulder1_459000_4429000.las	13757793	460000	459000	4430000	4429000	2773.5	2496.39	2608.722	13.75859

344	Boulder1_459000_4430000.las	13904040	460000	459000	4431000	4430000	3162.59	2539.08	2669.245	13.90899
345	Boulder1_459000_4431000.las	2207656	460000	459000	4432000	4431000	2644.61	2420.21	2546.318	5.179474
346	Boulder1_459000_4432000.las	2307421	459902.1	459000	4433000	4432000	2694.46	1171.75	2568.608	3.498778
347	Boulder1_459000_4433000.las	1169016	460000	459000	4434000	4433000	3269.66	2575.17	2656.808	2.340967
348	Boulder1_459000_4434000.las	284629	460000	459000	4434441	4434000	2711.65	2563.35	2619.681	2.449903
<b>Overall*</b>		3.57E+09	460000	439000	4436000	4418000	4493.21	937.62	3100.795	10.68983

\*Overall consists of total points for all tiles, maximum of x, y, z maximum values, minimum of x, y, z minimum values, overall z average and average points per square meter for all tiles.