

## C-3 Report on Intensity Values

The USGS Lidar Base Specification 2022 rev. A states: "Intensity values are required for each multiple discrete return. The intensity values recorded in the LAS files shall be normalized to 16 bit, as required by the LAS Specification version 1.4-R15 (ASPRS, 2019). Intensity normalization should be strictly linear. Common image stretches (minimum-maximum, standard deviations, percent clip, histogram, and so forth) are expressly forbidden."

The purpose of this section is to report on the presence and quantities of lidar intensity in the LAS data.

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File	Minimum	Maximum	Mean	Median	Mode
CS_01001.las	96	65,520	2,663	2,768	112
CS_01002.las	112	65,520	2,039	1,888	336
CS_01003.las	112	65,520	3,743	3,856	4,064
CS_01004.las	112	65,520	2,838	2,992	112
CS_01005.las	96	65,520	3,208	3,536	112
CS_01006.las	112	65,520	2,959	3,200	112
CS_01008.las	112	65,520	2,101	2,016	112
CS_01009.las	96	65,520	3,133	3,424	112
CS_01010.las	112	65,520	2,701	2,960	128
CS_01011.las	112	65,520	3,229	3,344	3,488
CS_01013.las	112	65,520	2,893	3,136	112
CS_01016.las	96	65,520	2,915	3,136	112
CS_01017.las	96	65,520	3,175	3,456	112
CS_01018.las	112	65,520	2,144	2,080	112
CS_01021.las	112	65,520	2,129	2,096	112
CS_01022.las	112	65,520	3,017	3,056	2,800
CS_01023.las	96	65,520	2,722	2,848	112
CS_01024.las	112	65,520	3,025	3,280	112
CS_01026.las	112	65,520	3,590	3,760	3,888
CS_01027.las	112	65,520	2,944	3,008	2,784
CS_01028.las	96	65,520	3,261	3,296	2,864
CS_01030.las	96	65,520	3,180	3,408	112
CS_01032.las	112	65,520	3,093	3,344	112
CS_01033.las	96	65,520	3,027	3,264	112
CS_01034.las	112	65,520	2,811	2,928	2,880

### *C-3 Report on Intensity Values - continued*

File	Minimum	Maximum	Mean	Median	Mode
CS_01035.las	112	65,520	3,034	3,120	112
CS_01036.las	96	65,520	2,674	2,912	112
CS_01037.las	96	65,520	3,423	3,616	3,664
CS_01038.las	112	65,520	2,765	3,056	112
CS_01039.las	112	65,520	3,373	3,472	3,440
CS_01041.las	112	65,520	2,730	2,976	112
CS_01042.las	112	65,520	2,888	3,248	128
CS_01043.las	112	65,520	3,999	4,048	3,904
CS_01044.las	112	65,520	2,800	2,880	2,784
CS_01045.las	96	65,520	2,730	2,832	112
CS_01047.las	112	65,520	2,979	3,152	3,136
CS_01048.las	112	65,520	2,328	2,464	112
CS_01049.las	96	65,520	2,665	2,768	2,784
CS_01050.las	112	65,520	3,387	3,392	3,120
CS_01051.las	96	65,520	3,009	3,264	112
CS_01053.las	96	65,520	2,630	2,784	112
CS_01054.las	112	65,520	2,552	2,528	2,208
CS_01055.las	96	65,520	2,688	2,928	112
CS_01057.las	96	65,520	2,700	2,784	112
CS_01058.las	96	65,520	2,728	2,880	112
CS_01059.las	96	65,520	3,122	3,408	112
CS_01060.las	112	65,520	3,032	3,248	112
CS_01061.las	96	65,520	3,175	3,424	112
CS_01063.las	112	65,520	2,390	2,384	112
CS_01065.las	96	65,520	2,972	3,248	112
CS_01068.las	96	65,520	3,199	3,296	3,424
CS_01069.las	96	65,520	3,279	3,392	3,472
CS_01070.las	96	65,520	2,729	2,816	112
CS_01071.las	112	65,520	2,914	3,168	112
CS_01073.las	96	65,520	3,074	3,120	2,800
CS_01074.las	112	65,520	3,017	3,088	2,816
CS_01075.las	112	65,520	1,869	1,488	112
CS_01076.las	112	65,520	2,946	3,200	112

### *C-3 Report on Intensity Values - continued*

File	Minimum	Maximum	Mean	Median	Mode
CS_01078.las	96	65,520	2,128	2,016	112
CS_01079.las	96	65,520	3,158	3,232	2,896
CS_01081.las	112	65,520	2,812	3,088	112
CS_01082.las	96	65,520	2,695	2,816	112
CS_01083.las	112	65,520	2,784	3,008	112
CS_01086.las	96	65,520	2,731	2,848	112
CS_01087.las	96	65,520	2,644	2,768	112
CS_01094.las	112	65,520	2,249	2,160	1,568
CS_01095.las	112	65,520	2,926	3,088	3,328
CS_01096.las	112	65,520	3,362	3,520	3,616
CS_01097.las	112	65,520	3,268	3,504	3,888
CS_01098.las	112	65,520	2,876	2,960	2,880
CS_01099.las	112	65,520	3,203	3,520	768
CS_01100.las	112	65,520	2,913	3,040	2,864
CS_01101.las	112	65,520	2,952	3,136	3,312
CS_01102.las	112	65,520	2,863	2,944	2,832
CS_01103.las	112	65,520	2,931	3,024	2,816
CS_01104.las	112	65,520	2,918	3,008	2,880
CS_01105.las	112	65,520	3,048	3,136	3,200
CS_01106.las	112	65,520	2,783	2,816	2,848
CS_01107.las	112	65,520	2,920	3,008	2,944
Overall Statistics	96	65,520	2,918	3,072	112

## C-3 Report on Intensity Values - continued

The purpose of this section is to show a frequency distribution chart of intensities throughout all of the lidar files.

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