

C-3 Report on Intensity Values

The USGS Lidar Base Specification 2023 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.

[Data Source - D:\00_MNWest\B3_Swath_Data](#)

File	Minimum	Maximum	Mean	Median	Mode
CS_00261.las	16	65,520	538	544	480
CS_00262.las	16	65,520	516	496	448
CS_00263.las	16	65,520	515	496	464
CS_00264.las	16	65,520	522	512	464
CS_00265.las	16	65,520	525	512	464
CS_00266.las	16	65,520	519	512	448
CS_00267.las	16	65,520	485	464	448
CS_00268.las	16	65,520	552	560	560
CS_00269.las	16	65,520	544	560	544
CS_00285.las	16	65,520	422	448	112
CS_00289.las	16	65,520	356	272	112
CS_00290.las	16	65,520	427	448	112
CS_00292.las	16	65,520	480	480	464
CS_00293.las	16	65,520	490	480	464
CS_00295.las	16	65,520	478	464	464
CS_00296.las	16	65,520	484	480	464
CS_00297.las	16	65,520	477	464	464
CS_00298.las	16	65,520	481	480	464
CS_00299.las	16	65,520	538	528	464
CS_00300.las	16	65,520	523	496	464
CS_00301.las	16	65,520	530	496	464
CS_00302.las	16	65,520	576	576	560
CS_00303.las	16	65,520	546	544	464
CS_00304.las	16	65,520	514	496	464
CS_00305.las	16	65,520	534	512	464
CS_00306.las	16	65,520	548	544	464
CS_00307.las	16	65,520	542	528	464

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File	Minimum	Maximum	Mean	Median	Mode
CS_00308.las	16	65,520	545	544	464
CS_00309.las	16	65,520	535	528	464
CS_00310.las	16	65,520	487	480	448
CS_00311.las	16	65,520	501	496	464
CS_00312.las	16	65,520	493	480	464
CS_00313.las	16	65,520	497	480	448
CS_00314.las	16	65,520	493	480	448
CS_00315.las	16	65,520	493	480	448
CS_00316.las	16	4,064	518	512	448
CS_00317.las	16	65,520	482	464	448
CS_00318.las	16	65,520	467	464	480
CS_00319.las	16	65,520	432	400	368
CS_00320.las	16	65,520	436	416	336
CS_00321.las	16	65,520	467	480	464
CS_00322.las	16	50,352	496	512	576
CS_00323.las	16	65,520	485	480	448
CS_00324.las	16	65,520	499	528	560
CS_00325.las	16	65,520	442	432	464
CS_00326.las	16	65,520	459	464	464
CS_00327.las	16	65,520	457	464	464
CS_00328.las	16	65,520	447	448	464
CS_00329.las	16	65,520	500	512	448
CS_00330.las	16	65,520	492	480	480
CS_00331.las	16	65,520	506	512	512
CS_00332.las	16	65,520	532	560	592
CS_00333.las	16	65,520	487	480	464
CS_00334.las	16	65,520	525	512	480
CS_00335.las	16	65,520	514	512	464
CS_00336.las	16	65,520	517	512	464
CS_00337.las	16	65,520	529	528	464
CS_00338.las	16	65,520	518	512	464
CS_00339.las	16	65,520	519	512	448
CS_00340.las	16	65,520	523	512	464

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File	Minimum	Maximum	Mean	Median	Mode
CS_00341.las	16	65,520	514	496	448
CS_00342.las	16	65,520	515	512	448
CS_00343.las	16	65,520	496	480	448
CS_00344.las	16	65,520	490	480	464
CS_00346.las	16	65,520	498	480	448
CS_00347.las	16	65,520	488	480	448
CS_00348.las	16	65,520	493	480	432
CS_00349.las	16	12,496	472	464	464
CS_00350.las	16	65,520	508	496	448
CS_00351.las	16	65,520	508	496	448
CS_00352.las	16	65,520	503	480	448
CS_00353.las	16	65,520	510	496	448
CS_00354.las	16	65,520	510	496	432
CS_00380.las	16	65,520	437	432	352
CS_00381.las	16	65,520	463	464	480
CS_00382.las	16	65,520	476	480	480
CS_00383.las	16	65,520	416	400	368
CS_00397.las	16	65,520	540	544	464
CS_00398.las	16	65,520	528	560	672
CS_00399.las	16	39,648	513	512	560
CS_00400.las	16	12,128	487	464	352
CS_00427.las	16	65,520	543	544	480
CS_00428.las	16	65,520	510	512	480
CS_00429.las	16	65,520	481	480	432
CS_00430.las	16	65,520	500	480	432
Overall Statistics	16	65,520	505	496	464

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

[Data Source - D:\00_MNWest\B3_Swath_Data](#)

