

C-3 Report on Intensity Values

The USGS Lidar Base Specification Version 2.1 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-R13 (ASPRS, 2011). 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_00200.las	416	10,112	3,566	3,456	928
CS_00201.las	208	51,408	3,601	3,056	976
CS_00202.las	304	65,520	4,128	4,304	992
CS_00204.las	64	65,520	3,337	2,848	816
CS_00205.las	192	65,520	3,246	2,880	800
CS_00207.las	160	65,520	3,278	2,992	1,008
CS_00208.las	144	65,520	3,333	3,072	992
CS_00210.las	96	65,520	3,337	3,136	992
CS_00211.las	144	65,520	3,448	3,312	3,168
CS_00212.las	448	8,848	2,936	2,608	1,008
CS_00213.las	320	46,976	3,101	2,336	1,024
CS_00214.las	352	12,288	3,668	3,536	1,024
CS_00216.las	48	65,520	2,857	2,176	944
CS_00217.las	304	65,520	2,789	2,304	928
CS_00219.las	224	65,520	2,825	2,448	1,040
CS_00220.las	16	65,520	2,901	2,560	1,024
CS_00222.las	16	65,520	2,832	2,576	1,200
CS_00223.las	224	65,520	2,943	2,768	1,248
CS_00224.las	160	65,520	3,367	3,216	3,216
CS_00225.las	32	65,520	3,467	3,376	3,392
CS_00226.las	32	65,520	3,580	3,584	3,872
CS_00228.las	96	65,520	3,778	3,840	4,240
CS_00230.las	224	65,520	3,907	4,032	4,528
CS_00231.las	32	65,520	4,020	4,192	4,736
CS_00232.las	224	65,520	4,055	4,256	4,736
CS_00234.las	64	65,520	2,896	2,704	1,232
CS_00235.las	32	65,520	2,920	2,800	2,512

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File	Minimum	Maximum	Mean	Median	Mode
CS_00236.las	160	65,520	3,074	3,008	3,104
CS_00238.las	96	65,520	3,205	3,200	3,408
CS_00240.las	208	65,520	3,420	3,456	3,856
CS_00241.las	352	65,520	3,522	3,616	4,064
CS_00242.las	64	65,520	3,572	3,712	4,240
CS_00244.las	64	65,520	4,130	4,368	4,896
CS_00245.las	64	65,520	4,158	4,400	4,848
CS_00246.las	32	65,520	4,225	4,416	4,880
CS_00247.las	32	65,520	4,279	4,432	4,896
CS_00248.las	64	65,520	3,637	3,808	4,400
CS_00249.las	32	65,520	3,645	3,824	4,336
CS_00250.las	32	65,520	3,797	3,968	4,432
CS_00251.las	32	65,520	3,832	3,936	4,256
CS_00252.las	352	13,344	5,713	6,320	6,848
CS_00254.las	256	65,520	5,758	6,320	6,976
CS_00256.las	288	65,520	5,640	6,160	6,832
CS_00257.las	32	65,520	5,596	6,080	6,816
CS_00258.las	416	11,200	5,030	5,520	5,936
CS_00260.las	416	22,288	5,316	5,792	6,368
CS_00262.las	448	32,896	5,180	5,600	6,368
CS_00263.las	32	65,520	5,004	5,392	5,984
CS_00264.las	224	65,520	3,777	3,616	1,040
CS_00265.las	256	52,752	3,341	2,848	1,056
CS_00266.las	272	65,520	3,354	2,928	1,056
CS_00267.las	272	65,520	3,270	2,960	1,056
CS_00268.las	224	65,520	3,376	3,088	1,296
CS_00269.las	32	65,520	3,450	3,184	1,328
CS_00270.las	240	65,520	3,478	3,232	1,616
CS_00271.las	112	65,520	3,580	3,408	3,120
CS_00272.las	80	65,520	3,597	3,520	3,568
CS_00273.las	32	65,520	4,478	4,608	5,200
CS_00274.las	32	65,520	4,454	4,624	5,120
CS_00276.las	32	65,520	4,466	4,624	5,264

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File	Minimum	Maximum	Mean	Median	Mode
CS_00278.las	32	65,520	4,469	4,704	5,296
CS_00279.las	32	65,520	4,499	4,752	5,408
CS_00280.las	32	65,520	4,653	4,944	5,584
CS_00281.las	416	27,392	3,187	2,816	1,040
CS_00282.las	256	41,392	2,836	2,208	1,056
CS_00283.las	352	65,520	2,844	2,352	1,088
CS_00284.las	384	65,520	2,724	2,352	1,264
CS_00285.las	96	65,520	2,849	2,512	1,280
CS_00286.las	208	65,520	2,904	2,608	1,328
CS_00287.las	368	65,520	2,918	2,672	1,600
CS_00288.las	48	65,520	2,989	2,800	1,600
CS_00289.las	80	65,520	3,009	2,880	2,560
CS_00290.las	32	65,520	3,834	3,952	4,592
CS_00291.las	32	65,520	3,907	4,000	4,560
CS_00293.las	32	65,520	3,932	4,048	4,768
CS_00295.las	32	65,520	3,898	4,016	4,784
CS_00296.las	32	65,520	3,990	4,160	4,976
CS_00297.las	32	65,520	4,162	4,368	5,152
CS_00298.las	32	65,520	4,907	5,216	5,632
CS_00299.las	32	65,520	5,210	5,472	5,600
CS_00300.las	32	65,520	5,401	5,664	5,792
CS_00302.las	32	65,520	5,616	5,824	5,616
CS_00304.las	32	65,520	5,728	5,984	5,904
CS_00305.las	32	65,520	5,845	6,144	6,176
CS_00306.las	32	65,520	5,843	6,272	7,152
CS_00307.las	32	65,520	5,914	6,448	7,520
CS_00308.las	32	65,520	4,538	4,784	5,328
CS_00309.las	32	65,520	4,883	5,168	5,824
CS_00310.las	32	65,520	5,100	5,344	5,488
CS_00312.las	32	65,520	5,295	5,536	5,664
CS_00314.las	32	65,520	5,283	5,536	5,680
CS_00315.las	32	65,520	5,363	5,664	5,856
CS_00316.las	32	65,520	5,330	5,696	6,384

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File	Minimum	Maximum	Mean	Median	Mode
CS_00317.las	32	65,520	5,285	5,760	6,400
CS_00318.las	32	65,520	5,655	6,240	7,104
CS_00320.las	32	65,520	5,910	6,480	7,344
CS_00322.las	32	65,520	6,141	6,720	7,712
CS_00323.las	32	65,520	6,367	6,976	7,888
CS_00324.las	32	65,520	4,930	5,328	6,032
CS_00326.las	32	65,520	5,133	5,616	6,384
CS_00328.las	32	65,520	5,261	5,632	6,400
CS_00329.las	32	65,520	5,643	6,112	6,720
Overall Statistics	16	65,520	4,142	4,064	4,784

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

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