

## C-4 Report on Nominal Pulse Spacing (NPS)

The USGS Lidar Base Specification 2021 rev. A states: "The required ANPS and ANPD by QL are listed in table 1. Aggregate Nominal Pulse Density (ANPD) and Aggregate Nominal Pulse Spacing (ANPS) shall meet the requirements of the Quality Level (QL) of the project with a minimum of QL2 for 3DEP collections. Aggregate Nominal Pulse Density (ANPD) shall be no less than 2 points per square meter (QL2); assessment to be made against single swath, first return data located within the geometrically usable center portion (typically ~95%) of each swath. Aggregate Nominal Pulse Spacing (ANPS) shall be no greater than 0.70 meters (QL2); assessment to be made against single swath, first return data located within the geometrically usable center portion (typically ~95%) of each swath. Dependent on the local terrain and land cover conditions in a project, a greater pulse density may be required on specific projects."

**Table 1.** Aggregate nominal pulse spacing and density.

[QL, quality level; pls/m<sup>2</sup>, pulses per square meter; m, meter; ≤, less than or equal to; ≥, greater than or equal to]

Quality level	Aggregate nominal pulse spacing (m)	Aggregate nominal pulse density (pls/m <sup>2</sup> )
QL0	≤0.35	≥8.0
QL1	≤0.35	≥8.0
QL2	≤0.71	≥2.0
QL3	≤1.41	≥0.5

The purpose of this section is to report on the lidar point density and nominal point spacing by LAS file. Averages by files (not including overlap), project boundary polygons (including overlap), and aggregate project boundary polygons (including overlap) are reported.

[Data Source - Y:\Mapping\Projects\65221006\\_AZ\\_Yavapai\Production\Final\\_Client\\_Deliverables\Projectwide\point\\_c loud\Client\\_LAS\\_Swaths](#)

Quality level tested: QL1

File	Number of First Returns	Area	Point Density	NPS
00003.las	4,313,212	1,325,980	3.253/0.302	0.554/1.818
00003.las + 00005.las	7,545,116	1,324,080	5.698/0.529	0.419/1.375 *
00004.las	4,359,231	1,351,378	3.226/0.300	0.557/1.827
00004.las + others	19,001,929	1,355,344	14.020/1.303	0.267/0.876 *
00006.las	7,803,599	2,969,816	2.628/0.244	0.617/2.024
00006.las + others	41,449,448	2,971,536	13.949/1.296	0.268/0.879 *

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File	Number of First Returns	Area	Point Density	NPS
00007.las	17,176,339	5,639,665	3.046/0.283	0.573/1.880
00007.las + 00008.las	33,917,802	5,636,864	6.017/0.559	0.408/1.339 *
00009.las	19,971,723	6,923,471	2.885/0.268	0.589/1.932
00009.las + 00010.las	37,321,338	6,882,272	5.423/0.504	0.429/1.407 *
00011.las	32,965,524	10,960,540	3.008/0.279	0.577/1.893
00011.las + 00012.las	65,079,375	10,902,160	5.969/0.555	0.409/1.342 *
00013.las	35,286,642	13,205,259	2.672/0.248	0.612/2.008
00013.las + 00014.las	66,656,443	12,675,568	5.259/0.489	0.436/1.430 *
00015.las	47,152,321	17,747,538	2.657/0.247	0.614/2.014
00015.las + 00016.las	93,144,483	16,406,640	5.677/0.527	0.420/1.378 *
00017.las	48,594,918	21,131,497	2.300/0.214	0.659/2.162
00017.las + 00018.las	93,283,867	18,037,296	5.172/0.480	0.440/1.444 *
00019.las	72,446,133	25,183,003	2.877/0.267	0.590/1.936
00019.las + 00020.las	142,443,521	23,063,408	6.176/0.574	0.402/1.319 *
00021.las	76,344,868	30,197,061	2.528/0.235	0.629/2.064
00021.las + 00022.las	145,539,971	26,420,208	5.509/0.512	0.426/1.398 *
00023.las	96,877,801	33,319,225	2.908/0.270	0.586/1.923
00023.las + 00024.las	189,204,636	32,511,568	5.820/0.541	0.415/1.362 *
00025.las	97,060,352	35,310,963	2.749/0.255	0.603/1.978
00025.las + 00026.las	185,428,562	33,615,216	5.516/0.512	0.426/1.398 *
00027.las	115,215,994	41,287,947	2.791/0.259	0.599/1.965
00027.las + 00028.las	224,897,142	38,429,424	5.852/0.544	0.413/1.355 *
00029.las	112,322,889	42,020,916	2.673/0.248	0.612/2.008
00029.las + 00030.las	215,127,201	39,840,048	5.400/0.502	0.430/1.411 *
00031.las	129,404,052	44,728,838	2.893/0.269	0.588/1.929
00031.las + 00032.las	253,582,716	43,222,816	5.867/0.545	0.413/1.355 *
00033.las	118,581,404	44,255,775	2.679/0.249	0.611/2.005
00033.las + 00034.las	228,000,498	43,167,712	5.282/0.491	0.435/1.427 *
00035.las	136,098,200	47,063,949	2.892/0.269	0.588/1.929
00035.las + 00036.las	266,438,823	45,333,488	5.877/0.546	0.412/1.352 *
00037.las	138,966,562	45,669,896	3.043/0.283	0.573/1.880
00037.las + 00038.las	268,124,820	45,273,456	5.922/0.550	0.411/1.348 *
00039.las	128,541,519	48,176,943	2.668/0.248	0.612/2.008
00039.las + 00040.las	246,711,969	45,721,504	5.396/0.501	0.430/1.411 *

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File	Number of First Returns	Area	Point Density	NPS
00041.las	139,705,641	46,671,690	2.993/0.278	0.578/1.896
00041.las + 00042.las	268,717,535	45,786,944	5.869/0.545	0.413/1.355 *
00043.las	134,619,683	48,745,837	2.762/0.257	0.602/1.975
00043.las + 00044.las	258,200,557	47,283,120	5.461/0.507	0.428/1.404 *
00045.las	149,384,536	49,807,754	2.999/0.279	0.577/1.893
00045.las + 00046.las	289,372,977	49,094,432	5.894/0.548	0.412/1.352 *
00047.las	143,373,478	51,017,070	2.810/0.261	0.597/1.959
00047.las + 00048.las	274,481,270	50,456,224	5.440/0.505	0.429/1.407 *
00049.las	156,146,006	52,233,191	2.989/0.278	0.578/1.896
00049.las + 00050.las	302,792,957	51,114,304	5.924/0.550	0.411/1.348 *
00051.las	150,441,431	54,129,587	2.779/0.258	0.600/1.969
00051.las + 00052.las	286,845,239	53,466,112	5.365/0.498	0.432/1.417 *
00053.las	165,819,145	55,544,007	2.985/0.277	0.579/1.900
00053.las + 00054.las	320,805,556	54,911,584	5.842/0.543	0.414/1.358 *
00055.las	164,027,491	58,047,129	2.826/0.263	0.595/1.952
00055.las + 00056.las	314,771,954	57,413,312	5.483/0.509	0.427/1.401 *
00057.las	171,007,334	57,777,554	2.960/0.275	0.581/1.906
00057.las + 00058.las	330,242,506	57,203,216	5.773/0.536	0.416/1.365 *
00059.las	170,098,412	59,075,683	2.879/0.267	0.589/1.932
00059.las + 00060.las	326,564,159	58,405,344	5.591/0.519	0.423/1.388 *
00061.las	174,395,981	58,623,610	2.975/0.276	0.580/1.903
00061.las + 00062.las	336,512,804	58,217,440	5.780/0.537	0.416/1.365 *
00063.las	90,194,624	30,704,057	2.938/0.273	0.583/1.913
00063.las + 00064.las	173,514,094	30,686,752	5.654/0.525	0.421/1.381 *
00065.las	40,863,088	11,027,804	3.705/0.344	0.519/1.703
00065.las + others	188,845,707	10,762,928	17.546/1.630	0.239/0.784 *
00066.las	41,601,881	11,469,816	3.627/0.337	0.525/1.722
00066.las + others	197,736,832	11,454,000	17.264/1.604	0.241/0.791 *
00067.las	13,860,243	4,871,031	2.845/0.264	0.593/1.946
00067.las + 00068.las	27,086,158	4,730,864	5.725/0.532	0.418/1.371 *
00069.las	39,459,973	14,686,959	2.687/0.250	0.610/2.001
00069.las + 00070.las	75,544,813	12,793,040	5.905/0.549	0.412/1.352 *
00071.las	9,790,094	3,306,305	2.961/0.275	0.581/1.906
00071.las + 00072.las	20,490,936	3,738,064	5.482/0.509	0.427/1.401 *

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File	Number of First Returns	Area	Point Density	NPS
00073.las	24,621,451	13,261,992	1.857/0.173	0.734/2.408
00073.las + 00074.las	46,031,961	8,617,040	5.342/0.496	0.433/1.421 *
00075.las	33,012,092	13,619,053	2.424/0.225	0.642/2.106
00075.las + 00076.las	60,851,324	11,306,512	5.382/0.500	0.431/1.414 *
00077.las	42,950,903	13,109,965	3.276/0.304	0.552/1.811
00077.las + 00078.las	81,240,579	13,215,888	6.147/0.571	0.403/1.322 *
00079.las	46,415,193	11,901,799	3.900/0.362	0.506/1.660
00079.las + 00080.las	89,695,045	12,019,376	7.463/0.693	0.366/1.201 *
00081.las	56,155,988	21,939,640	2.560/0.238	0.625/2.051
00081.las + 00082.las	108,036,614	18,500,832	5.840/0.543	0.414/1.358 *
00083.las	29,613,128	11,818,751	2.506/0.233	0.632/2.073
00083.las + 00084.las	50,536,077	9,718,448	5.200/0.483	0.439/1.440 *
00085.las	360,800,284	127,486,935	2.830/0.263	0.594/1.949
00085.las + 00086.las	706,096,685	126,082,064	5.600/0.520	0.423/1.388 *
00087.las	54,349,277	15,739,624	3.453/0.321	0.538/1.765
00087.las + 00088.las	101,474,494	15,780,320	6.430/0.597	0.394/1.293 *
00089.las	376,606,119	121,794,400	3.092/0.287	0.569/1.867
00089.las + 00090.las	706,875,816	120,555,632	5.863/0.545	0.413/1.355 *
00091.las	346,836,260	122,738,580	2.826/0.263	0.595/1.952
00091.las + 00092.las	677,663,263	121,584,560	5.574/0.518	0.424/1.391 *
00093.las	361,544,823	119,543,425	3.024/0.281	0.575/1.886
00093.las + 00094.las	680,486,445	117,943,088	5.770/0.536	0.416/1.365 *
00095.las	341,517,863	122,391,163	2.790/0.259	0.599/1.965
00095.las + 00096.las	672,430,512	121,333,552	5.542/0.515	0.425/1.394 *
00097.las	364,217,491	118,550,339	3.072/0.285	0.571/1.873
00097.las + 00098.las	682,270,806	117,671,856	5.798/0.539	0.415/1.362 *
00099.las	348,430,624	120,783,654	2.885/0.268	0.589/1.932
00099.las + 00100.las	685,605,179	120,184,976	5.705/0.530	0.419/1.375 *
00101.las	357,488,050	116,354,231	3.072/0.285	0.571/1.873
00101.las + 00102.las	667,335,980	115,920,704	5.757/0.535	0.417/1.368 *
00103.las	335,646,443	118,984,198	2.821/0.262	0.595/1.952
00103.las + 00104.las	663,472,815	118,538,816	5.597/0.520	0.423/1.388 *
00105.las	353,892,105	113,652,609	3.114/0.289	0.567/1.860
00105.las + 00106.las	655,886,566	112,684,464	5.821/0.541	0.414/1.358 *

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File	Number of First Returns	Area	Point Density	NPS
00107.las	360,311,526	120,440,648	2.992/0.278	0.578/1.896
00107.las + 00108.las	721,293,454	119,428,000	6.040/0.561	0.407/1.335 *
00109.las	356,286,816	106,842,162	3.335/0.310	0.548/1.798
00109.las + 00110.las	629,105,709	106,563,856	5.904/0.548	0.412/1.352 *
00111.las	345,975,550	117,176,084	2.953/0.274	0.582/1.909
00111.las + 00112.las	692,672,254	117,279,568	5.906/0.549	0.411/1.348 *
00113.las	365,822,948	105,163,653	3.479/0.323	0.536/1.759
00113.las + 00114.las	647,252,605	104,817,936	6.175/0.574	0.402/1.319 *
00115.las	333,481,092	115,037,943	2.899/0.269	0.587/1.926
00115.las + 00116.las	666,845,917	115,103,824	5.793/0.538	0.415/1.362 *
00117.las	362,300,033	105,883,350	3.422/0.318	0.541/1.775
00117.las + 00118.las	643,396,438	105,506,944	6.098/0.567	0.405/1.329 *
00119.las	271,020,660	73,921,893	3.666/0.341	0.522/1.713
00119.las + 00120.las	519,978,922	74,036,512	7.023/0.652	0.377/1.237 *
00121.las	18,203,862	4,973,595	3.660/0.340	0.523/1.716
00121.las + 00124.las	32,674,704	5,006,576	6.526/0.606	0.391/1.283 *
00122.las	19,366,218	5,406,824	3.582/0.333	0.528/1.732
00122.las + others	229,740,340	5,477,824	41.940/3.896	0.154/0.505 *
00123.las	39,067,206	10,897,035	3.585/0.333	0.528/1.732
00123.las + others	428,961,449	11,041,920	38.848/3.609	0.160/0.525 *
00125.las	25,514,972	7,946,269	3.211/0.298	0.558/1.831
00125.las + 00126.las	46,530,689	8,030,336	5.794/0.538	0.415/1.362 *
00127.las	22,429,048	7,678,341	2.921/0.271	0.585/1.919
00127.las + 00128.las	42,160,753	7,739,120	5.448/0.506	0.428/1.404 *
00129.las	29,787,840	10,066,107	2.959/0.275	0.581/1.906
00129.las + 00130.las	56,850,244	10,088,928	5.635/0.524	0.421/1.381 *
00131.las	49,759,210	17,327,125	2.872/0.267	0.590/1.936
00131.las + 00134.las	97,557,790	17,288,448	5.643/0.524	0.421/1.381 *
00132.las	47,650,486	16,755,820	2.844/0.264	0.593/1.946
00132.las + others	538,760,092	16,746,432	32.172/2.989	0.176/0.577 *
00133.las	61,564,688	20,701,866	2.974/0.276	0.580/1.903
00133.las + others	652,691,780	20,672,352	31.573/2.933	0.178/0.584 *
00135.las	32,513,800	13,601,834	2.390/0.222	0.647/2.123
00135.las + 00136.las	61,584,410	11,380,560	5.411/0.503	0.430/1.411 *

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File	Number of First Returns	Area	Point Density	NPS
00137.las	304,906,079	111,526,376	2.734/0.254	0.605/1.985
00137.las + 00138.las	586,055,588	111,576,192	5.253/0.488	0.436/1.430 *
00139.las	348,140,400	111,655,451	3.118/0.290	0.566/1.857
00139.las + 00140.las	669,763,478	111,577,264	6.003/0.558	0.408/1.339 *
00141.las	311,832,750	113,054,938	2.758/0.256	0.602/1.975
00141.las + 00142.las	598,919,693	112,691,184	5.315/0.494	0.434/1.424 *
00143.las	355,615,351	114,336,507	3.110/0.289	0.567/1.860
00143.las + 00144.las	684,151,779	114,389,808	5.981/0.556	0.409/1.342 *
00145.las	320,428,308	114,803,486	2.791/0.259	0.599/1.965
00145.las + 00146.las	616,454,833	114,837,216	5.368/0.499	0.432/1.417 *
00147.las	334,852,755	115,179,005	2.907/0.270	0.586/1.923
00147.las + 00148.las	642,617,537	115,141,520	5.581/0.518	0.423/1.388 *
00149.las	326,654,242	115,479,623	2.829/0.263	0.595/1.952
00149.las + 00150.las	628,316,544	115,506,304	5.440/0.505	0.429/1.407 *
00151.las	334,575,055	115,907,471	2.887/0.268	0.589/1.932
00151.las + 00152.las	642,710,820	115,916,496	5.545/0.515	0.425/1.394 *
00153.las	339,990,509	115,912,143	2.933/0.272	0.584/1.916
00153.las + 00154.las	652,130,541	115,917,824	5.626/0.523	0.422/1.385 *
00155.las	68,917,984	18,327,922	3.760/0.349	0.516/1.693
00155.las + others	372,711,988	18,382,368	20.276/1.884	0.222/0.728 *
00156.las	68,933,169	18,689,348	3.688/0.343	0.521/1.709
00156.las + others	388,917,686	18,762,688	20.728/1.926	0.220/0.722 *
00157.las	325,298,912	115,263,721	2.822/0.262	0.595/1.952
00157.las + 00158.las	625,787,821	115,221,616	5.431/0.505	0.429/1.407 *
00159.las	337,597,063	114,104,488	2.959/0.275	0.581/1.906
00159.las + 00160.las	647,651,573	114,120,336	5.675/0.527	0.420/1.378 *
00161.las	337,990,703	112,956,438	2.992/0.278	0.578/1.896
00161.las + 00162.las	649,655,722	112,995,600	5.749/0.534	0.417/1.368 *
00163.las	321,655,663	113,154,728	2.843/0.264	0.593/1.946
00163.las + 00164.las	618,967,256	112,810,672	5.487/0.510	0.427/1.401 *
00165.las	322,685,462	112,158,862	2.877/0.267	0.590/1.936
00165.las + 00168.las	628,949,406	112,128,304	5.609/0.521	0.422/1.385 *
00166.las	322,985,589	114,416,162	2.823/0.262	0.595/1.952
00166.las + others	2,655,577,123	114,849,056	23.122/2.148	0.208/0.682 *

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00167.las	333,498,373	112,226,715	2.972/0.276	0.580/1.903
00167.las + others	2,583,572,716	112,196,432	23.027/2.139	0.208/0.682 *
00169.las	319,144,013	110,823,813	2.880/0.268	0.589/1.932
00169.las + 00170.las	612,036,816	110,898,944	5.519/0.513	0.426/1.398 *
00171.las	303,102,486	110,737,546	2.737/0.254	0.604/1.982
00171.las + 00172.las	583,020,753	106,367,424	5.481/0.509	0.427/1.401 *
00173.las	277,080,449	102,421,393	2.705/0.251	0.608/1.995
00173.las + 00174.las	531,767,179	100,181,504	5.308/0.493	0.434/1.424 *
00175.las	109,673,184	36,186,303	3.031/0.282	0.574/1.883
00175.las + others	832,869,094	36,124,096	23.056/2.142	0.208/0.682 *
00176.las	106,752,263	35,852,793	2.978/0.277	0.580/1.903
00176.las + others	836,991,113	35,977,456	23.264/2.161	0.207/0.679 *
00177.las	266,310,222	94,357,473	2.822/0.262	0.595/1.952
00177.las + 00178.las	510,855,245	93,485,264	5.465/0.508	0.428/1.404 *
00179.las	134,912,320	36,517,281	3.694/0.343	0.520/1.706
00179.las + 00180.las	258,723,510	36,563,184	7.076/0.657	0.376/1.234 *
00181.las	40,617,823	14,310,521	2.838/0.264	0.594/1.949
00181.las + 00182.las	76,246,228	14,050,048	5.427/0.504	0.429/1.407 *
00183.las	46,899,426	15,270,247	3.071/0.285	0.571/1.873
00183.las + 00184.las	89,973,258	15,346,480	5.863/0.545	0.413/1.355 *
00185.las	29,912,913	10,418,303	2.871/0.267	0.590/1.936
00185.las + others	281,448,448	10,431,008	26.982/2.507	0.193/0.633 *
00186.las	28,429,348	10,541,720	2.697/0.251	0.609/1.998
00186.las + others	283,101,094	10,556,736	26.817/2.491	0.193/0.633 *
00187.las	15,701,413	4,587,425	3.423/0.318	0.541/1.775
00187.las + others	186,814,397	4,650,128	40.174/3.732	0.158/0.518 *
00188.las	16,961,716	5,182,321	3.273/0.304	0.553/1.814
00188.las + others	216,357,017	5,260,656	41.127/3.821	0.156/0.512 *
00189.las	269,590,798	96,291,308	2.800/0.260	0.598/1.962
00189.las + 00190.las	517,539,619	92,855,648	5.574/0.518	0.424/1.391 *
00191.las	265,780,224	91,626,407	2.901/0.270	0.587/1.926
00191.las + 00192.las	511,299,268	91,688,944	5.576/0.518	0.423/1.388 *
00193.las	266,189,888	91,417,901	2.912/0.271	0.586/1.923
00193.las + 00194.las	510,662,487	91,404,896	5.587/0.519	0.423/1.388 *

## C-4 Report on Nominal Pulse Spacing (NPS) - continued

File	Number of First Returns	Area	Point Density	NPS
00195.las	269,394,800	92,256,079	2.920/0.271	0.585/1.919
00195.las + 00196.las	518,434,622	92,160,096	5.625/0.523	0.422/1.385 *
00197.las	258,950,676	93,164,915	2.779/0.258	0.600/1.969
00197.las + 00198.las	497,574,347	92,568,624	5.375/0.499	0.431/1.414 *
00199.las	104,071,071	33,975,646	3.063/0.285	0.571/1.873
00199.las + others	659,984,270	34,007,712	19.407/1.803	0.227/0.745 *
00200.las	100,988,453	33,932,354	2.976/0.276	0.580/1.903
00200.las + others	670,371,028	34,040,592	19.693/1.830	0.225/0.738 *
00201.las	267,365,264	93,467,964	2.861/0.266	0.591/1.939
00201.las + 00202.las	516,097,275	93,518,096	5.519/0.513	0.426/1.398 *
00203.las	262,675,437	93,299,041	2.815/0.262	0.596/1.955
00203.las + 00204.las	505,553,540	93,322,048	5.417/0.503	0.430/1.411 *
00205.las	269,567,313	92,793,493	2.905/0.270	0.587/1.926
00205.las + 00206.las	519,440,781	92,784,784	5.598/0.520	0.423/1.388 *
00207.las	69,822,513	18,705,243	3.733/0.347	0.518/1.699
00207.las + others	399,716,743	18,760,448	21.306/1.979	0.217/0.712 *
00208.las	66,796,177	18,313,628	3.647/0.339	0.524/1.719
00208.las + others	399,526,990	18,376,608	21.741/2.020	0.214/0.702 *
00209.las	261,625,547	92,723,644	2.822/0.262	0.595/1.952
00209.las + 00210.las	503,877,958	92,390,112	5.454/0.507	0.428/1.404 *
00211.las	286,017,630	92,802,195	3.082/0.286	0.570/1.870
00211.las + 00212.las	549,572,444	92,766,144	5.924/0.550	0.411/1.348 *
00213.las	257,588,020	92,920,681	2.772/0.258	0.601/1.972
00213.las + 00214.las	496,815,761	92,817,104	5.353/0.497	0.432/1.417 *
00215.las	67,469,669	21,614,015	3.122/0.290	0.566/1.857
00215.las + 00218.las	130,590,417	21,654,624	6.031/0.560	0.407/1.335 *
00216.las	70,457,643	23,273,210	3.027/0.281	0.575/1.886
00216.las + others	597,480,999	23,357,376	25.580/2.376	0.198/0.650 *
00217.las	68,650,322	21,552,086	3.185/0.296	0.560/1.837
00217.las + others	554,213,936	21,598,720	25.660/2.384	0.197/0.646 *
00219.las	289,830,445	93,108,049	3.113/0.289	0.567/1.860
00219.las + 00220.las	556,245,974	93,017,888	5.980/0.556	0.409/1.342 *
00221.las	259,358,438	93,738,632	2.767/0.257	0.601/1.972
00221.las + 00222.las	500,044,694	93,593,104	5.343/0.496	0.433/1.421 *



## C-4 Report on Nominal Pulse Spacing (NPS) - continued

File	Number of First Returns	Area	Point Density	NPS
00223.las	289,660,112	94,143,518	3.077/0.286	0.570/1.870
00223.las + 00224.las	555,363,550	94,175,584	5.897/0.548	0.412/1.352 *
00225.las	258,722,493	94,193,305	2.747/0.255	0.603/1.978
00225.las + 00226.las	497,756,230	94,228,672	5.282/0.491	0.435/1.427 *
00227.las	72,474,465	24,511,554	2.957/0.275	0.582/1.909
00227.las + 00229.las	152,087,181	24,580,576	6.187/0.575	0.402/1.319 *
00228.las	69,639,429	24,065,291	2.894/0.269	0.588/1.929
00228.las + 00230.las	146,306,939	24,167,168	6.054/0.562	0.406/1.332 *
00231.las	295,075,892	94,229,093	3.131/0.291	0.565/1.854
00231.las + 00232.las	564,693,804	94,161,856	5.997/0.557	0.408/1.339 *
00233.las	263,585,606	96,401,044	2.734/0.254	0.605/1.985
00233.las + 00234.las	506,454,963	94,809,008	5.342/0.496	0.433/1.421 *
00235.las	62,488,840	17,753,032	3.520/0.327	0.533/1.749
00235.las + 00239.las	113,876,976	17,317,232	6.576/0.611	0.390/1.280 *
00236.las	248,564,340	75,696,183	3.284/0.305	0.552/1.811
00236.las + 00237.las	479,008,864	75,742,480	6.324/0.588	0.398/1.306 *
00238.las	60,098,254	17,533,869	3.428/0.318	0.540/1.772
00238.las + 00242.las	109,729,439	16,947,184	6.475/0.602	0.393/1.289 *
00240.las	65,255,403	21,146,265	3.086/0.287	0.569/1.867
00240.las + 00241.las	122,943,165	21,183,280	5.804/0.539	0.415/1.362 *
00243.las	53,176,350	17,928,094	2.966/0.276	0.581/1.906
00243.las + 00248.las	101,744,236	17,390,016	5.851/0.544	0.413/1.355 *
00244.las	70,082,657	21,393,954	3.276/0.304	0.553/1.814
00244.las + others	1,090,263,088	21,456,208	50.813/4.721	0.140/0.459 *
00245.las	50,992,876	16,408,357	3.108/0.289	0.567/1.860
00245.las + 00246.las	97,543,992	16,453,792	5.928/0.551	0.411/1.348 *
00247.las	67,075,334	21,302,449	3.149/0.293	0.564/1.850
00247.las + others	1,086,856,289	21,333,936	50.945/4.733	0.140/0.459 *
00249.las	26,978,854	9,291,342	2.904/0.270	0.587/1.926
00249.las + 00250.las	48,701,243	8,398,880	5.799/0.539	0.415/1.362 *
00251.las	11,390,576	3,110,683	3.662/0.340	0.523/1.716
00251.las + others	110,940,214	3,091,376	35.887/3.334	0.167/0.548 *
00252.las	11,822,244	3,511,702	3.367/0.313	0.545/1.788
00252.las + others	132,159,589	3,441,808	38.398/3.567	0.161/0.528 *

## C-4 Report on Nominal Pulse Spacing (NPS) - continued

File	Number of First Returns	Area	Point Density	NPS
00253.las	13,054,840	3,786,939	3.447/0.320	0.539/1.768
00253.las + others	140,223,601	3,848,640	36.435/3.385	0.166/0.545 *
00254.las	13,313,759	4,077,683	3.265/0.303	0.553/1.814
00254.las + others	158,652,753	4,050,672	39.167/3.639	0.160/0.525 *
00255.las	21,346,657	5,637,056	3.787/0.352	0.514/1.686
00255.las + 00256.las	35,817,844	6,373,872	5.619/0.522	0.422/1.385 *
00257.las	14,842,452	5,301,353	2.800/0.260	0.598/1.962
00257.las + others	131,717,362	5,069,488	25.982/2.414	0.196/0.643 *
00258.las	12,963,461	4,820,843	2.689/0.250	0.610/2.001
00258.las + others	122,652,452	4,503,984	27.232/2.530	0.192/0.630 *
00259.las	3,061,371	830,284	3.687/0.343	0.521/1.709
00259.las + others	31,649,599	949,488	33.333/3.097	0.173/0.568 *
00260.las	3,097,418	877,462	3.530/0.328	0.532/1.745
00260.las + others	36,031,083	1,059,232	34.016/3.160	0.171/0.561 *
00261.las	3,141,404	827,538	3.796/0.353	0.513/1.683
00261.las + others	32,258,792	960,736	33.577/3.119	0.173/0.568 *
00262.las	3,275,997	870,002	3.766/0.350	0.515/1.690
00262.las + others	36,368,227	1,066,992	34.085/3.167	0.171/0.561 *
00263.las	14,654,839	3,831,887	3.824/0.355	0.511/1.677
00263.las + others	127,334,717	3,861,456	32.976/3.064	0.174/0.571 *
00264.las	12,169,225	3,773,261	3.225/0.300	0.557/1.827
00264.las + 00354.las	23,314,188	3,530,384	6.604/0.614	0.389/1.276 *
00265.las	29,011,860	10,250,544	2.830/0.263	0.594/1.949
00265.las + 00266.las	56,905,647	10,251,616	5.551/0.516	0.424/1.391 *
00267.las	70,461,240	24,517,725	2.874/0.267	0.590/1.936
00267.las + 00268.las	132,806,072	24,546,880	5.410/0.503	0.430/1.411 *
00269.las	270,159,990	97,710,849	2.765/0.257	0.601/1.972
00269.las + 00270.las	491,951,280	95,973,312	5.126/0.476	0.442/1.450 *
00271.las	65,746,861	20,585,181	3.194/0.297	0.560/1.837
00271.las + others	912,380,801	20,638,832	44.207/4.107	0.150/0.492 *
00272.las	67,127,835	21,723,616	3.090/0.287	0.569/1.867
00272.las + others	952,706,716	21,803,808	43.695/4.059	0.151/0.495 *
00273.las	69,445,344	20,519,708	3.384/0.314	0.544/1.785
00273.las + others	914,133,471	20,568,304	44.444/4.129	0.150/0.492 *

## C-4 Report on Nominal Pulse Spacing (NPS) - continued

File	Number of First Returns	Area	Point Density	NPS
00274.las	67,623,203	21,246,958	3.183/0.296	0.561/1.841
00274.las + others	913,372,521	20,446,608	44.671/4.150	0.150/0.492 *
00275.las	312,023,945	106,435,463	2.932/0.272	0.584/1.916
00275.las + 00276.las	620,764,727	106,359,568	5.836/0.542	0.414/1.358 *
00277.las	45,667,341	15,320,069	2.981/0.277	0.579/1.900
00277.las + 00280.las	85,070,089	15,363,408	5.537/0.514	0.425/1.394 *
00278.las	36,406,392	13,053,498	2.789/0.259	0.599/1.965
00278.las + 00279.las	67,750,756	13,112,848	5.167/0.480	0.440/1.444 *
00281.las	296,171,239	105,560,289	2.806/0.261	0.597/1.959
00281.las + 00282.las	538,015,378	104,209,568	5.163/0.480	0.440/1.444 *
00283.las	71,093,816	22,414,345	3.172/0.295	0.561/1.841
00283.las + others	458,576,761	22,480,400	20.399/1.895	0.221/0.725 *
00284.las	150,227,785	46,235,957	3.249/0.302	0.555/1.821
00284.las + 00285.las	285,377,317	46,288,304	6.165/0.573	0.403/1.322 *
00286.las	70,606,881	22,885,016	3.085/0.287	0.569/1.867
00286.las + others	474,751,239	22,966,896	20.671/1.920	0.220/0.722 *
00287.las	311,726,980	114,402,314	2.725/0.253	0.606/1.988
00287.las + 00288.las	601,533,475	110,511,424	5.443/0.506	0.429/1.407 *
00289.las	349,375,575	119,449,340	2.925/0.272	0.585/1.919
00289.las + 00290.las	671,832,836	113,978,416	5.894/0.548	0.412/1.352 *
00291.las	324,777,725	120,457,420	2.696/0.250	0.609/1.998
00291.las + 00292.las	627,128,792	117,445,824	5.340/0.496	0.433/1.421 *
00293.las	364,750,466	120,685,334	3.022/0.281	0.575/1.886
00293.las + 00294.las	703,583,135	120,437,920	5.842/0.543	0.414/1.358 *
00295.las	335,234,228	121,664,976	2.755/0.256	0.602/1.975
00295.las + 00296.las	647,848,776	121,600,032	5.328/0.495	0.433/1.421 *
00297.las	62,645,672	17,239,847	3.634/0.338	0.525/1.722
00297.las + others	345,239,335	17,299,280	19.957/1.854	0.224/0.735 *
00298.las	62,748,136	17,617,311	3.562/0.331	0.530/1.739
00298.las + others	354,250,418	17,659,728	20.060/1.864	0.223/0.732 *
00299.las	368,938,846	122,146,544	3.020/0.281	0.575/1.886
00299.las + 00300.las	709,993,249	122,076,096	5.816/0.540	0.415/1.362 *
00301.las	342,007,304	122,422,604	2.794/0.260	0.598/1.962
00301.las + 00302.las	659,594,142	122,353,664	5.391/0.501	0.431/1.414 *

## C-4 Report on Nominal Pulse Spacing (NPS) - continued

File	Number of First Returns	Area	Point Density	NPS
00303.las	373,161,606	123,188,819	3.029/0.281	0.575/1.886
00303.las + 00304.las	718,004,146	123,098,224	5.833/0.542	0.414/1.358 *
00305.las	71,938,830	21,801,291	3.300/0.307	0.551/1.808
00305.las + others	424,851,811	21,853,888	19.441/1.806	0.227/0.745 *
00306.las	72,375,298	22,335,846	3.240/0.301	0.556/1.824
00306.las + others	441,015,775	22,405,376	19.683/1.829	0.225/0.738 *
00307.las	352,602,852	123,392,380	2.858/0.266	0.592/1.942
00307.las + 00308.las	678,915,337	123,351,520	5.504/0.511	0.426/1.398 *
00309.las	351,202,307	124,345,706	2.824/0.262	0.595/1.952
00309.las + 00310.las	673,075,855	124,267,184	5.416/0.503	0.430/1.411 *
00311.las	361,480,201	124,940,361	2.893/0.269	0.588/1.929
00311.las + 00312.las	695,679,218	124,845,472	5.572/0.518	0.424/1.391 *
00313.las	353,980,682	125,436,454	2.822/0.262	0.595/1.952
00313.las + 00314.las	677,614,642	125,270,784	5.409/0.503	0.430/1.411 *
00315.las	53,496,845	18,444,190	2.900/0.269	0.587/1.926
00315.las + others	340,926,946	18,504,352	18.424/1.712	0.233/0.764 *
00316.las	53,534,601	19,153,216	2.795/0.260	0.598/1.962
00316.las + others	356,760,554	19,233,248	18.549/1.723	0.232/0.761 *
00317.las	377,940,998	125,681,545	3.007/0.279	0.577/1.893
00317.las + 00318.las	726,831,005	125,470,592	5.793/0.538	0.415/1.362 *
00319.las	50,646,446	17,317,580	2.925/0.272	0.585/1.919
00319.las + 00320.las	92,350,715	17,019,168	5.426/0.504	0.429/1.407 *
00321.las	351,700,003	126,789,032	2.774/0.258	0.600/1.969
00321.las + 00322.las	675,675,289	126,170,944	5.355/0.497	0.432/1.417 *
00323.las	385,859,601	127,083,144	3.036/0.282	0.574/1.883
00323.las + 00324.las	744,162,090	126,398,544	5.887/0.547	0.412/1.352 *
00325.las	40,017,797	12,831,106	3.119/0.290	0.566/1.857
00325.las + others	241,742,984	12,876,128	18.775/1.744	0.231/0.758 *
00326.las	40,053,290	13,222,726	3.029/0.281	0.575/1.886
00326.las + others	251,122,265	13,274,816	18.917/1.757	0.230/0.755 *
00327.las	342,492,606	128,472,955	2.666/0.248	0.612/2.008
00327.las + 00328.las	662,153,162	126,870,624	5.219/0.485	0.438/1.437 *
00329.las	377,774,351	128,332,761	2.944/0.274	0.583/1.913
00329.las + 00330.las	731,949,252	127,345,216	5.748/0.534	0.417/1.368 *

## C-4 Report on Nominal Pulse Spacing (NPS) - continued

File	Number of First Returns	Area	Point Density	NPS
00331.las	347,100,472	128,633,508	2.698/0.251	0.609/1.998
00331.las + 00332.las	671,808,190	126,584,208	5.307/0.493	0.434/1.424 *
00333.las	320,993	90,644	3.541/0.329	0.531/1.742
00333.las + 00339.las	584,221	94,720	6.168/0.573	0.403/1.322 *
00334.las	393,303,372	130,886,528	3.005/0.279	0.577/1.893
00334.las + 00336.las	758,903,620	130,111,712	5.833/0.542	0.414/1.358 *
00335.las	1,289,767	423,738	3.044/0.283	0.573/1.880
00335.las + others	12,341,325	431,808	28.581/2.655	0.187/0.614 *
00337.las	375,056,955	133,027,654	2.819/0.262	0.596/1.955
00337.las + 00338.las	710,977,158	131,464,240	5.408/0.502	0.430/1.411 *
00340.las	388,325,857	136,160,433	2.852/0.265	0.592/1.942
00340.las + others	2,715,937,868	135,562,752	20.035/1.861	0.223/0.732 *
00341.las	412,755,649	133,917,400	3.082/0.286	0.570/1.870
00341.las + 00344.las	796,861,340	133,623,088	5.964/0.554	0.409/1.342 *
00343.las	285,469	378,565	0.754/0.070	1.152/3.780
00343.las + others	1,849,342	302,992	6.104/0.567	0.405/1.329 *
00345.las	43,944,567	14,927,505	2.944/0.274	0.583/1.913
00345.las + others	337,535,747	14,987,744	22.521/2.092	0.211/0.692 *
00346.las	43,851,846	15,558,649	2.818/0.262	0.596/1.955
00346.las + others	354,008,151	15,596,144	22.698/2.109	0.210/0.689 *
00347.las	13,635,642	5,666,923	2.406/0.224	0.645/2.116
00347.las + 00527.las	26,670,361	4,672,128	5.708/0.530	0.419/1.375 *
00348.las	11,702,575	4,864,341	2.406/0.224	0.645/2.116
00348.las + others	125,957,067	4,303,824	29.266/2.719	0.185/0.607 *
00349.las	12,868,780	4,095,967	3.142/0.292	0.564/1.850
00349.las + 00350.las	23,181,475	3,838,480	6.039/0.561	0.407/1.335 *
00351.las	20,735,526	5,847,503	3.546/0.329	0.531/1.742
00351.las + 00352.las	36,890,967	5,855,824	6.300/0.585	0.398/1.306 *
00353.las	20,203,972	7,180,779	2.814/0.261	0.596/1.955
00353.las + others	206,610,108	5,864,784	35.229/3.273	0.168/0.551 *
00355.las	54,836,921	19,486,497	2.814/0.261	0.596/1.955
00355.las + 00356.las	102,450,533	19,277,216	5.315/0.494	0.434/1.424 *
00357.las	77,509,562	27,095,988	2.861/0.266	0.591/1.939
00357.las + 00358.las	138,452,453	24,103,328	5.744/0.534	0.417/1.368 *

## C-4 Report on Nominal Pulse Spacing (NPS) - continued

File	Number of First Returns	Area	Point Density	NPS
00359.las	65,545,466	21,956,064	2.985/0.277	0.579/1.900
00359.las + 00360.las	125,248,889	21,857,328	5.730/0.532	0.418/1.371 *
00361.las	376,639,664	134,526,444	2.800/0.260	0.598/1.962
00361.las + 00362.las	728,528,866	132,230,768	5.510/0.512	0.426/1.398 *
00363.las	399,388,949	131,738,406	3.032/0.282	0.574/1.883
00363.las + 00364.las	772,061,464	128,966,176	5.987/0.556	0.409/1.342 *
00365.las	355,238,324	127,315,049	2.790/0.259	0.599/1.965
00365.las + 00366.las	685,118,411	126,029,040	5.436/0.505	0.429/1.407 *
00367.las	388,263,874	125,106,251	3.103/0.288	0.568/1.864
00367.las + 00368.las	748,855,675	124,967,744	5.992/0.557	0.409/1.342 *
00369.las	350,566,699	124,783,441	2.809/0.261	0.597/1.959
00369.las + 00370.las	675,214,139	124,149,104	5.439/0.505	0.429/1.407 *
00371.las	381,768,837	123,572,810	3.089/0.287	0.569/1.867
00371.las + 00372.las	734,395,142	123,223,520	5.960/0.554	0.410/1.345 *
00373.las	331,069,879	122,295,023	2.707/0.251	0.608/1.995
00373.las + 00374.las	635,854,426	122,018,288	5.211/0.484	0.438/1.437 *
00375.las	373,694,990	120,322,114	3.106/0.289	0.567/1.860
00375.las + 00376.las	716,192,220	120,029,168	5.967/0.554	0.409/1.342 *
00377.las	317,370,372	113,672,871	2.792/0.259	0.598/1.962
00377.las + 00378.las	566,143,984	113,204,512	5.001/0.465	0.447/1.467 *
00379.las	25,868,189	8,327,112	3.107/0.289	0.567/1.860
00379.las + 00380.las	48,912,253	8,362,672	5.849/0.543	0.413/1.355 *
00381.las	359,816,069	123,232,112	2.920/0.271	0.585/1.919
00381.las + 00382.las	718,849,343	122,690,544	5.859/0.544	0.413/1.355 *
00383.las	9,014,808	3,166,767	2.847/0.264	0.593/1.946
00383.las + 00386.las	16,492,835	3,182,368	5.183/0.482	0.439/1.440 *
00384.las	316,262,108	112,410,531	2.813/0.261	0.596/1.955
00384.las + others	1,674,331,548	112,323,856	14.906/1.385	0.259/0.850 *
00385.las	1,095,948	422,022	2.597/0.241	0.621/2.037
00385.las + others	17,828,102	445,744	39.996/3.716	0.158/0.518 *
00387.las	354,855,177	121,377,749	2.924/0.272	0.585/1.919
00387.las + 00388.las	708,744,988	120,443,136	5.884/0.547	0.412/1.352 *
00389.las	303,926,473	106,797,384	2.846/0.264	0.593/1.946
00389.las + 00390.las	542,002,692	106,040,272	5.111/0.475	0.442/1.450 *

## C-4 Report on Nominal Pulse Spacing (NPS) - continued

File	Number of First Returns	Area	Point Density	NPS
00391.las	333,775,936	112,174,145	2.976/0.276	0.580/1.903
00391.las + 00392.las	667,892,798	111,767,552	5.976/0.555	0.409/1.342 *
00393.las	309,934,577	108,374,282	2.860/0.266	0.591/1.939
00393.las + 00394.las	618,207,465	108,043,968	5.722/0.532	0.418/1.371 *
00395.las	41,997,456	13,501,871	3.110/0.289	0.567/1.860
00395.las + 00396.las	77,988,867	13,541,840	5.759/0.535	0.417/1.368 *
00397.las	289,660,745	101,698,675	2.848/0.265	0.593/1.946
00397.las + 00398.las	525,552,162	101,679,232	5.169/0.480	0.440/1.444 *
00399.las	301,405,374	106,239,576	2.837/0.264	0.594/1.949
00399.las + 00400.las	602,302,931	106,322,080	5.665/0.526	0.420/1.378 *
00401.las	3,345,164	1,026,810	3.258/0.303	0.554/1.818
00401.las + others	32,799,403	1,037,728	31.607/2.936	0.178/0.584 *
00402.las	3,323,855	1,042,317	3.189/0.296	0.560/1.837
00402.las + others	33,349,041	1,054,944	31.612/2.937	0.178/0.584 *
00403.las	285,805,290	102,624,981	2.785/0.259	0.599/1.965
00403.las + 00404.las	516,710,458	98,841,264	5.228/0.486	0.437/1.434 *
00405.las	298,692,023	104,122,939	2.869/0.267	0.590/1.936
00405.las + 00406.las	596,724,944	103,910,768	5.743/0.534	0.417/1.368 *
00407.las	318,084	101,415	3.136/0.291	0.565/1.854
00407.las + 00408.las	10,777,386	1,877,264	5.741/0.533	0.417/1.368 *
00409.las	11,058,676	3,810,009	2.903/0.270	0.587/1.926
00409.las + 00410.las	20,449,011	3,435,264	5.953/0.553	0.410/1.345 *
00411.las	18,174,457	6,003,137	3.027/0.281	0.575/1.886
00411.las + 00412.las	33,799,919	5,644,736	5.988/0.556	0.409/1.342 *
00413.las	30,279,930	7,351,601	4.119/0.383	0.493/1.617
00413.las + 00476.las	51,288,374	7,461,072	6.874/0.639	0.381/1.250 *
00414.las	28,229,026	6,369,243	4.432/0.412	0.475/1.558
00414.las + others	234,597,565	6,496,736	36.110/3.355	0.166/0.545 *
00415.las	85,869,363	29,274,609	2.933/0.272	0.584/1.916
00415.las + 00416.las	169,303,047	29,070,208	5.824/0.541	0.414/1.358 *
00417.las	399,600,923	139,565,286	2.863/0.266	0.591/1.939
00417.las + 00418.las	795,904,139	139,161,360	5.719/0.531	0.418/1.371 *
00419.las	435,503,188	130,742,670	3.331/0.309	0.548/1.798
00419.las + 00420.las	793,707,996	128,617,312	6.171/0.573	0.403/1.322 *

## C-4 Report on Nominal Pulse Spacing (NPS) - continued

File	Number of First Returns	Area	Point Density	NPS
00421.las	387,469,307	140,443,120	2.759/0.256	0.602/1.975
00421.las + 00422.las	773,518,574	139,701,392	5.537/0.514	0.425/1.394 *
00423.las	443,144,449	129,559,657	3.420/0.318	0.541/1.775
00423.las + 00424.las	797,483,679	128,255,968	6.218/0.578	0.401/1.316 *
00425.las	390,295,039	141,510,074	2.758/0.256	0.602/1.975
00425.las + 00426.las	781,600,346	141,404,208	5.527/0.513	0.425/1.394 *
00427.las	56,695,635	18,675,549	3.036/0.282	0.574/1.883
00427.las + others	360,492,175	18,732,192	19.245/1.788	0.228/0.748 *
00428.las	56,652,001	18,894,566	2.998/0.279	0.578/1.896
00428.las + others	367,981,427	18,959,744	19.409/1.803	0.227/0.745 *
00429.las	445,016,119	125,837,613	3.536/0.329	0.532/1.745
00429.las + 00430.las	787,452,392	125,305,616	6.284/0.584	0.399/1.309 *
00431.las	376,308,659	139,834,295	2.691/0.250	0.610/2.001
00431.las + 00432.las	753,596,448	138,157,488	5.455/0.507	0.428/1.404 *
00433.las	435,026,505	123,499,493	3.522/0.327	0.533/1.749
00433.las + 00434.las	769,847,429	123,187,760	6.249/0.581	0.400/1.312 *
00435.las	380,831,632	136,606,073	2.788/0.259	0.599/1.965
00435.las + 00436.las	763,011,038	136,692,672	5.582/0.519	0.423/1.388 *
00437.las	430,288,518	121,315,727	3.547/0.330	0.531/1.742
00437.las + 00438.las	759,634,427	121,063,424	6.275/0.583	0.399/1.309 *
00439.las	369,540,552	135,463,616	2.728/0.253	0.605/1.985
00439.las + 00440.las	739,850,652	134,951,504	5.482/0.509	0.427/1.401 *
00441.las	421,998,551	120,299,582	3.508/0.326	0.534/1.752
00441.las + 00442.las	752,173,045	119,825,296	6.277/0.583	0.399/1.309 *
00443.las	16,363,760	4,379,044	3.737/0.347	0.517/1.696
00443.las + others	169,146,647	4,446,224	38.043/3.534	0.162/0.531 *
00444.las	16,601,014	4,705,992	3.528/0.328	0.532/1.745
00444.las + others	185,805,608	4,779,520	38.875/3.612	0.160/0.525 *
00445.las	69,497,747	23,601,006	2.945/0.274	0.583/1.913
00445.las + others	629,927,706	23,264,544	27.077/2.516	0.192/0.630 *
00446.las	69,081,783	24,799,289	2.786/0.259	0.599/1.965
00446.las + others	626,013,177	22,873,776	27.368/2.543	0.191/0.627 *
00447.las	480,747,936	173,591,399	2.769/0.257	0.601/1.972
00447.las + 00448.las	908,874,505	163,691,104	5.552/0.516	0.424/1.391 *



## C-4 Report on Nominal Pulse Spacing (NPS) - continued

File	Number of First Returns	Area	Point Density	NPS
00449.las	457,470,180	167,722,279	2.728/0.253	0.605/1.985
00449.las + 00450.las	892,375,321	159,409,920	5.598/0.520	0.423/1.388 *
00451.las	449,371,138	161,928,516	2.775/0.258	0.600/1.969
00451.las + 00452.las	839,947,022	150,702,000	5.574/0.518	0.424/1.391 *
00453.las	432,219,518	151,801,570	2.847/0.264	0.593/1.946
00453.las + 00454.las	839,947,625	150,588,416	5.578/0.518	0.423/1.388 *
00455.las	431,203,906	144,198,719	2.990/0.278	0.578/1.896
00455.las + 00456.las	808,202,070	143,906,288	5.616/0.522	0.422/1.385 *
00457.las	413,129,754	142,311,797	2.903/0.270	0.587/1.926
00457.las + 00458.las	797,145,964	142,302,080	5.602/0.520	0.423/1.388 *
00459.las	413,602,112	138,293,746	2.991/0.278	0.578/1.896
00459.las + 00460.las	779,571,217	137,469,104	5.671/0.527	0.420/1.378 *
00461.las	404,857,979	136,892,501	2.957/0.275	0.581/1.906
00461.las + 00462.las	778,004,494	136,712,464	5.691/0.529	0.419/1.375 *
00463.las	401,068,726	134,723,176	2.977/0.277	0.580/1.903
00463.las + 00464.las	762,495,538	134,753,680	5.658/0.526	0.420/1.378 *
00465.las	400,548,988	134,814,500	2.971/0.276	0.580/1.903
00465.las + 00466.las	769,859,794	134,713,792	5.715/0.531	0.418/1.371 *
00467.las	392,403,817	133,083,900	2.949/0.274	0.582/1.909
00467.las + 00468.las	742,475,349	132,944,816	5.585/0.519	0.423/1.388 *
00469.las	18,516,970	8,832,214	2.097/0.195	0.691/2.267
00469.las + 00520.las	34,479,001	6,227,936	5.536/0.514	0.425/1.394 *
00470.las	18,984,916	7,880,938	2.409/0.224	0.644/2.113
00470.las + others	214,489,580	6,696,768	32.029/2.976	0.177/0.581 *
00471.las	35,587,709	13,521,514	2.632/0.245	0.616/2.021
00471.las + 00472.las	67,910,474	11,816,880	5.747/0.534	0.417/1.368 *
00473.las	11,194,069	3,140,759	3.564/0.331	0.530/1.739
00473.las + others	131,176,750	3,191,584	41.101/3.818	0.156/0.512 *
00474.las	12,178,238	3,612,298	3.371/0.313	0.545/1.788
00474.las + others	153,654,620	3,668,416	41.886/3.891	0.155/0.509 *
00475.las	49,996,960	14,772,849	3.384/0.314	0.544/1.785
00475.las + others	523,652,752	14,960,128	35.003/3.252	0.169/0.554 *
00477.las	9,679,505	3,289,721	2.942/0.273	0.583/1.913
00477.las + 00659.las	20,344,808	3,327,920	6.113/0.568	0.404/1.325 *

## C-4 Report on Nominal Pulse Spacing (NPS) - continued

File	Number of First Returns	Area	Point Density	NPS
00478.las	9,440,329	3,156,412	2.991/0.278	0.578/1.896
00478.las + others	122,449,782	3,195,392	38.321/3.560	0.162/0.531 *
00479.las	653,064,714	210,339,109	3.105/0.288	0.568/1.864
00479.las + 00480.las	1,261,691,495	209,570,080	6.020/0.559	0.408/1.339 *
00481.las	81,966,299	21,470,106	3.818/0.355	0.512/1.680
00481.las + others	516,662,233	21,423,280	24.117/2.241	0.204/0.669 *
00482.las	78,220,552	20,906,788	3.741/0.348	0.517/1.696
00482.las + others	512,149,493	20,959,808	24.435/2.270	0.202/0.663 *
00483.las	78,153,692	21,400,980	3.652/0.339	0.523/1.716
00483.las + others	534,795,269	21,479,312	24.898/2.313	0.200/0.656 *
00484.las	81,305,424	22,093,291	3.680/0.342	0.521/1.709
00484.las + others	539,470,049	21,833,616	24.708/2.295	0.201/0.659 *
00485.las	568,805,931	208,036,521	2.734/0.254	0.605/1.985
00485.las + 00486.las	1,094,530,591	206,814,064	5.292/0.492	0.435/1.427 *
00487.las	646,138,590	205,423,888	3.145/0.292	0.564/1.850
00487.las + 00488.las	1,246,132,161	203,525,728	6.123/0.569	0.404/1.325 *
00489.las	549,630,116	199,847,270	2.750/0.255	0.603/1.978
00489.las + 00490.las	1,055,762,421	199,814,208	5.284/0.491	0.435/1.427 *
00491.las	595,075,735	193,315,721	3.078/0.286	0.570/1.870
00491.las + 00492.las	1,091,231,041	191,828,992	5.689/0.529	0.419/1.375 *
00493.las	511,955,785	172,474,400	2.968/0.276	0.580/1.903
00493.las + 00494.las	983,182,425	171,961,104	5.717/0.531	0.418/1.371 *
00495.las	557,022,231	200,220,222	2.782/0.258	0.600/1.969
00495.las + 00496.las	1,101,055,229	199,162,016	5.528/0.514	0.425/1.394 *
00497.las	592,226,134	190,311,453	3.112/0.289	0.567/1.860
00497.las + 00498.las	1,087,965,192	188,753,584	5.764/0.535	0.417/1.368 *
00499.las	558,747,898	193,674,297	2.885/0.268	0.589/1.932
00499.las + 00500.las	1,054,078,479	188,354,640	5.596/0.520	0.423/1.388 *
00501.las	16,686,969	6,004,383	2.779/0.258	0.600/1.969
00501.las + 00503.las	31,831,802	5,635,600	5.648/0.525	0.421/1.381 *
00502.las	575,636,932	194,439,661	2.960/0.275	0.581/1.906
00502.las + 00504.las	1,101,224,816	189,304,112	5.817/0.540	0.415/1.362 *
00505.las	534,378,265	184,115,682	2.902/0.270	0.587/1.926
00505.las + 00506.las	1,030,775,813	183,863,872	5.606/0.521	0.422/1.385 *

## C-4 Report on Nominal Pulse Spacing (NPS) - continued

File	Number of First Returns	Area	Point Density	NPS
00507.las	66,411,227	22,385,830	2.967/0.276	0.581/1.906
00507.las + 00508.las	124,683,120	22,458,592	5.552/0.516	0.424/1.391 *
00509.las	529,163,437	179,865,681	2.942/0.273	0.583/1.913
00509.las + 00510.las	1,007,537,723	179,341,616	5.618/0.522	0.422/1.385 *
00511.las	504,429,639	180,395,383	2.796/0.260	0.598/1.962
00511.las + 00512.las	974,860,572	173,584,304	5.616/0.522	0.422/1.385 *
00513.las	637,182,599	180,672,366	3.527/0.328	0.532/1.745
00513.las + 00514.las	1,227,844,846	174,097,648	7.053/0.655	0.377/1.237 *
00515.las	469,239,039	169,823,273	2.763/0.257	0.602/1.975
00515.las + others	3,835,514,821	168,264,224	22.795/2.118	0.209/0.686 *
00516.las	467,788,341	166,102,478	2.816/0.262	0.596/1.955
00516.las + others	3,762,830,553	166,381,344	22.616/2.101	0.210/0.689 *
00519.las	60,135,002	26,722,546	2.250/0.209	0.667/2.188
00519.las + others	663,652,482	20,390,848	32.547/3.024	0.175/0.574 *
00521.las	47,272,416	19,272,464	2.453/0.228	0.639/2.096
00521.las + others	578,474,110	17,498,672	33.058/3.071	0.174/0.571 *
00522.las	47,782,726	18,788,803	2.543/0.236	0.627/2.057
00522.las + others	582,870,362	17,753,520	32.831/3.050	0.175/0.574 *
00523.las	63,894,069	16,096,691	3.969/0.369	0.502/1.647
00523.las + 00524.las	127,507,533	15,988,000	7.975/0.741	0.354/1.161 *
00525.las	4,679,573	1,432,938	3.266/0.303	0.553/1.814
00525.las + others	49,906,244	1,449,056	34.441/3.200	0.170/0.558 *
00526.las	4,668,150	1,273,079	3.667/0.341	0.522/1.713
00526.las + others	45,681,449	1,282,576	35.617/3.309	0.168/0.551 *
00528.las	26,653,553	8,593,871	3.101/0.288	0.568/1.864
00528.las + others	195,204,035	7,431,840	26.266/2.440	0.195/0.640 *
00529.las	13,211,914	4,003,464	3.300/0.307	0.550/1.804
00529.las + 00532.las	25,429,343	4,001,168	6.355/0.590	0.397/1.302 *
00530.las	13,539,062	4,127,169	3.280/0.305	0.552/1.811
00530.las + 00531.las	24,627,024	4,169,200	5.907/0.549	0.411/1.348 *
00533.las	47,754,929	13,317,297	3.586/0.333	0.528/1.732
00533.las + others	319,070,460	13,396,240	23.818/2.213	0.205/0.673 *
00534.las	410,627,861	97,713,647	4.202/0.390	0.488/1.601
00534.las + 00535.las	734,775,055	97,355,264	7.547/0.701	0.364/1.194 *

## C-4 Report on Nominal Pulse Spacing (NPS) - continued

File	Number of First Returns	Area	Point Density	NPS
00536.las	203,502,280	74,205,174	2.742/0.255	0.604/1.982
00536.las + 00539.las	406,814,992	74,349,712	5.472/0.508	0.428/1.404 *
00537.las	101,638,668	37,317,442	2.724/0.253	0.606/1.988
00537.las + 00538.las	199,921,605	37,348,544	5.353/0.497	0.432/1.417 *
00540.las	378,625,091	96,034,164	3.943/0.366	0.504/1.654
00540.las + 00541.las	679,264,674	95,919,936	7.082/0.658	0.376/1.234 *
00542.las	287,803,139	101,813,037	2.827/0.263	0.595/1.952
00542.las + 00543.las	576,837,704	101,851,920	5.663/0.526	0.420/1.378 *
00544.las	14,791,983	5,169,332	2.861/0.266	0.591/1.939
00544.las + 00545.las	28,029,786	5,180,128	5.411/0.503	0.430/1.411 *
00546.las	311,748,194	87,511,263	3.562/0.331	0.530/1.739
00546.las + 00547.las	552,549,556	87,505,952	6.314/0.587	0.398/1.306 *
00548.las	267,746,630	95,048,307	2.817/0.262	0.596/1.955
00548.las + 00549.las	536,385,909	95,219,840	5.633/0.523	0.421/1.381 *
00550.las	306,919,906	85,496,429	3.590/0.334	0.528/1.732
00550.las + 00551.las	548,669,488	85,548,160	6.414/0.596	0.395/1.296 *
00552.las	40,857,262	13,306,283	3.071/0.285	0.571/1.873
00552.las + 00553.las	75,761,229	13,339,056	5.680/0.528	0.420/1.378 *
00554.las	268,273,962	94,167,307	2.849/0.265	0.592/1.942
00554.las + 00555.las	537,277,829	94,397,216	5.692/0.529	0.419/1.375 *
00556.las	304,744,284	86,298,128	3.531/0.328	0.532/1.745
00556.las + 00557.las	546,093,107	86,379,216	6.322/0.587	0.398/1.306 *
00558.las	270,165,597	94,736,947	2.852/0.265	0.592/1.942
00558.las + 00559.las	541,469,330	94,910,480	5.705/0.530	0.419/1.375 *
00560.las	305,318,267	84,940,882	3.594/0.334	0.527/1.729
00560.las + 00561.las	543,456,217	84,890,880	6.402/0.595	0.395/1.296 *
00562.las	273,149,012	93,836,190	2.911/0.270	0.586/1.923
00562.las + 00563.las	546,631,577	94,068,576	5.811/0.540	0.415/1.362 *
00564.las	308,780,869	84,665,690	3.647/0.339	0.524/1.719
00564.las + 00565.las	546,801,195	84,800,352	6.448/0.599	0.394/1.293 *
00566.las	275,154,817	94,911,600	2.899/0.269	0.587/1.926
00566.las + 00567.las	551,144,613	95,118,464	5.794/0.538	0.415/1.362 *
00568.las	842,559	252,850	3.332/0.310	0.548/1.798
00568.las + 00617.las	17,375,372	3,366,272	5.162/0.480	0.440/1.444 *

## C-4 Report on Nominal Pulse Spacing (NPS) - continued

File	Number of First Returns	Area	Point Density	NPS
00569.las	1,626,739	606,363	2.683/0.249	0.611/2.005
00569.las + others	90,722,719	3,247,488	27.936/2.595	0.189/0.620 *
00570.las	19,174,971	6,872,493	2.790/0.259	0.599/1.965
00570.las + 00571.las	34,718,164	5,742,640	6.046/0.562	0.407/1.335 *
00572.las	21,001,538	6,041,223	3.476/0.323	0.536/1.759
00572.las + 00618.las	38,099,544	6,094,416	6.252/0.581	0.400/1.312 *
00573.las	22,400,863	7,443,495	3.009/0.280	0.576/1.890
00573.las + 00619.las	45,033,467	7,494,064	6.009/0.558	0.408/1.339 *
00574.las	22,591,569	6,186,744	3.652/0.339	0.523/1.716
00574.las + 00575.las	38,579,014	6,242,752	6.180/0.574	0.402/1.319 *
00576.las	283,046,069	88,095,248	3.213/0.298	0.558/1.831
00576.las + 00577.las	521,966,513	87,470,144	5.967/0.554	0.409/1.342 *
00578.las	284,787,902	91,282,181	3.120/0.290	0.566/1.857
00578.las + 00579.las	563,326,301	90,353,072	6.235/0.579	0.400/1.312 *
00580.las	279,015,257	87,236,379	3.198/0.297	0.559/1.834
00580.las + 00581.las	517,496,439	87,237,840	5.932/0.551	0.411/1.348 *
00582.las	288,076,596	90,263,058	3.192/0.297	0.560/1.837
00582.las + 00583.las	569,432,399	90,331,776	6.304/0.586	0.398/1.306 *
00584.las	277,896,630	87,408,260	3.179/0.295	0.561/1.841
00584.las + 00585.las	512,216,174	87,450,272	5.857/0.544	0.413/1.355 *
00586.las	293,500,956	92,144,802	3.185/0.296	0.560/1.837
00586.las + 00587.las	582,039,677	92,006,256	6.326/0.588	0.398/1.306 *
00588.las	280,030,956	88,863,897	3.151/0.293	0.563/1.847
00588.las + 00589.las	516,718,381	88,843,280	5.816/0.540	0.415/1.362 *
00590.las	299,586,534	91,598,508	3.271/0.304	0.553/1.814
00590.las + 00591.las	593,653,310	91,654,864	6.477/0.602	0.393/1.289 *
00592.las	263,720,552	87,731,477	3.006/0.279	0.577/1.893
00592.las + 00593.las	494,477,339	86,935,904	5.688/0.528	0.419/1.375 *
00594.las	295,706,481	88,876,738	3.327/0.309	0.548/1.798
00594.las + 00595.las	578,239,097	88,861,360	6.507/0.605	0.392/1.286 *
00596.las	262,958,504	87,167,888	3.017/0.280	0.576/1.890
00596.las + 00597.las	499,316,320	87,296,384	5.720/0.531	0.418/1.371 *
00598.las	306,853,477	88,319,883	3.474/0.323	0.536/1.759
00598.las + 00599.las	591,870,719	88,418,080	6.694/0.622	0.387/1.270 *

## C-4 Report on Nominal Pulse Spacing (NPS) - continued

File	Number of First Returns	Area	Point Density	NPS
00600.las	267,321,033	86,315,758	3.097/0.288	0.568/1.864
00600.las + 00601.las	498,578,042	86,323,664	5.776/0.537	0.416/1.365 *
00602.las	297,194,118	88,226,362	3.369/0.313	0.545/1.788
00602.las + 00603.las	581,078,143	87,896,464	6.611/0.614	0.389/1.276 *
00604.las	240,556,732	78,191,315	3.077/0.286	0.570/1.870
00604.las + 00605.las	449,346,442	78,082,224	5.755/0.535	0.417/1.368 *
00606.las	249,134,810	71,879,909	3.466/0.322	0.537/1.762
00606.las + 00607.las	485,614,427	71,384,784	6.803/0.632	0.383/1.257 *
00608.las	174,502,939	58,754,112	2.970/0.276	0.580/1.903
00608.las + 00609.las	328,393,594	56,938,864	5.767/0.536	0.416/1.365 *
00610.las	23,506,314	7,015,687	3.351/0.311	0.546/1.791
00610.las + 00611.las	368,850,236	53,969,536	6.834/0.635	0.383/1.257 *
00612.las	20,770,831	7,455,490	2.786/0.259	0.599/1.965
00612.las + 00613.las	36,110,083	7,458,912	4.841/0.450	0.454/1.490 *
00614.las	21,861,981	7,489,402	2.919/0.271	0.585/1.919
00614.las + 00615.las	43,333,471	7,524,752	5.759/0.535	0.417/1.368 *
00616.las	32,550,204	11,080,678	2.938/0.273	0.583/1.913
00616.las + others	318,835,025	13,244,192	24.074/2.237	0.204/0.669 *
00620.las	4,121,248	1,118,169	3.686/0.342	0.521/1.709
00620.las + 00622.las	8,557,773	1,122,480	7.624/0.708	0.362/1.188 *
00621.las	4,602,855	1,397,927	3.293/0.306	0.551/1.808
00621.las + 00623.las	9,439,338	1,399,856	6.743/0.626	0.385/1.263 *
00624.las	19,974,692	6,686,942	2.987/0.278	0.579/1.900
00624.las + 00625.las	301,198,835	52,421,200	5.746/0.534	0.417/1.368 *
00626.las	20,702,559	6,835,764	3.029/0.281	0.575/1.886
00626.las + 00627.las	311,004,414	51,939,296	5.988/0.556	0.409/1.342 *
00628.las	22,103,900	6,626,750	3.336/0.310	0.548/1.798
00628.las + 00629.las	309,676,609	49,423,184	6.266/0.582	0.399/1.309 *
00630.las	19,041,777	6,626,248	2.874/0.267	0.590/1.936
00630.las + 00631.las	281,408,558	47,207,104	5.961/0.554	0.410/1.345 *
00632.las	14,394,917	4,402,303	3.270/0.304	0.553/1.814
00632.las + 00633.las	239,939,484	38,315,856	6.262/0.582	0.400/1.312 *
00634.las	9,360,028	3,029,865	3.089/0.287	0.569/1.867
00634.las + 00635.las	221,847,609	36,757,968	6.035/0.561	0.407/1.335 *

## C-4 Report on Nominal Pulse Spacing (NPS) - continued

File	Number of First Returns	Area	Point Density	NPS
00636.las	3,576,344	1,020,411	3.505/0.326	0.534/1.752
00636.las + 00637.las	201,693,592	32,331,600	6.238/0.580	0.400/1.312 *
00638.las	1,161,406	354,443	3.277/0.304	0.552/1.811
00638.las + 00639.las	188,422,827	32,842,528	5.737/0.533	0.417/1.368 *
00640.las	49,104,279	14,395,935	3.411/0.317	0.541/1.775
00640.las + 00641.las	178,307,631	29,030,464	6.142/0.571	0.403/1.322 *
00642.las	40,303,552	13,928,671	2.894/0.269	0.588/1.929
00642.las + 00643.las	163,587,170	28,299,168	5.781/0.537	0.416/1.365 *
00644.las	33,641,328	10,873,505	3.094/0.287	0.569/1.867
00644.las + others	210,329,317	10,885,024	19.323/1.795	0.227/0.745 *
00645.las	30,964,169	10,229,561	3.027/0.281	0.575/1.886
00645.las + others	200,688,867	10,260,816	19.559/1.817	0.226/0.741 *
00646.las	38,131,076	10,839,359	3.518/0.327	0.533/1.749
00646.las + 00647.las	140,448,231	21,953,440	6.398/0.594	0.395/1.296 *
00648.las	26,766,884	8,548,841	3.131/0.291	0.565/1.854
00648.las + 00649.las	114,146,775	19,174,096	5.953/0.553	0.410/1.345 *
00650.las	11,151,185	3,005,256	3.711/0.345	0.519/1.703
00650.las + 00651.las	69,470,763	11,057,984	6.282/0.584	0.399/1.309 *
00652.las	18,302,313	6,998,265	2.615/0.243	0.618/2.028
00652.las + 00653.las	40,715,199	7,671,408	5.307/0.493	0.434/1.424 *
00654.las	7,450,989	2,186,961	3.407/0.317	0.542/1.778
00654.las + 00655.las	13,258,052	2,209,952	5.999/0.557	0.408/1.339 *
00657.las	1,270,410	162,910	7.798/0.724	0.358/1.175
00657.las + others	4,611,054	188,544	24.456/2.272	0.202/0.663 *
00658.las	20,786,790	5,517,411	3.767/0.350	0.515/1.690
00658.las + others	216,946,010	5,581,584	38.868/3.611	0.160/0.525 *
00660.las	12,949,320	4,676,883	2.769/0.257	0.601/1.972
00660.las + 00661.las	23,996,261	4,733,168	5.070/0.471	0.444/1.457 *
00662.las	9,565,700	3,593,655	2.662/0.247	0.613/2.011
00662.las + 00729.las	22,376,312	3,634,816	6.156/0.572	0.403/1.322 *
00663.las	9,821,396	3,639,396	2.699/0.251	0.609/1.998
00663.las + others	142,917,522	3,689,136	38.740/3.599	0.161/0.528 *
00664.las	12,295,337	4,225,568	2.910/0.270	0.586/1.923
00664.las + others	159,101,533	4,281,264	37.162/3.452	0.164/0.538 *

## C-4 Report on Nominal Pulse Spacing (NPS) - continued

File	Number of First Returns	Area	Point Density	NPS
00665.las	14,281,836	4,805,562	2.972/0.276	0.580/1.903
00665.las + others	181,705,332	4,870,880	37.304/3.466	0.164/0.538 *
00666.las	740,316,397	243,139,540	3.045/0.283	0.573/1.880
00666.las + 00667.las	1,425,792,689	242,170,816	5.888/0.547	0.412/1.352 *
00668.las	101,500,518	27,618,711	3.675/0.341	0.522/1.713
00668.las + others	595,509,978	27,682,768	21.512/1.999	0.216/0.709 *
00669.las	101,299,055	28,352,992	3.573/0.332	0.529/1.736
00669.las + others	619,574,207	28,401,440	21.815/2.027	0.214/0.702 *
00670.las	669,727,230	240,551,759	2.784/0.259	0.599/1.965
00670.las + 00671.las	1,281,128,790	240,714,128	5.322/0.494	0.433/1.421 *
00672.las	90,225,017	23,421,951	3.852/0.358	0.510/1.673
00672.las + others	496,167,780	23,479,040	21.132/1.963	0.218/0.715 *
00673.las	90,435,375	23,917,016	3.781/0.351	0.514/1.686
00673.las + others	520,204,129	24,003,424	21.672/2.013	0.215/0.705 *
00674.las	740,853,272	240,429,678	3.081/0.286	0.570/1.870
00674.las + 00675.las	1,426,968,466	239,701,072	5.953/0.553	0.410/1.345 *
00676.las	62,678,910	20,503,862	3.057/0.284	0.572/1.877
00676.las + others	410,366,821	20,557,184	19.962/1.855	0.224/0.735 *
00677.las	62,629,871	21,347,498	2.934/0.273	0.584/1.916
00677.las + others	433,436,823	21,414,928	20.240/1.880	0.222/0.728 *
00678.las	680,182,290	238,927,686	2.847/0.264	0.593/1.946
00678.las + 00679.las	1,303,163,959	239,119,856	5.450/0.506	0.428/1.404 *
00680.las	725,381,364	238,700,971	3.039/0.282	0.574/1.883
00680.las + 00681.las	1,403,836,465	238,062,464	5.897/0.548	0.412/1.352 *
00682.las	661,618,252	234,590,443	2.820/0.262	0.595/1.952
00682.las + 00683.las	1,271,585,996	234,727,904	5.417/0.503	0.430/1.411 *
00684.las	707,316,834	235,423,117	3.004/0.279	0.577/1.893
00684.las + 00685.las	1,370,633,730	232,210,320	5.903/0.548	0.412/1.352 *
00686.las	667,463,406	234,324,107	2.848/0.265	0.593/1.946
00686.las + 00687.las	1,278,303,108	232,159,248	5.506/0.512	0.426/1.398 *
00688.las	686,447,593	233,318,655	2.942/0.273	0.583/1.913
00688.las + 00689.las	1,327,494,219	232,116,912	5.719/0.531	0.418/1.371 *
00690.las	657,110,679	229,013,383	2.869/0.267	0.590/1.936
00690.las + 00691.las	1,257,105,140	229,187,760	5.485/0.510	0.427/1.401 *



## C-4 Report on Nominal Pulse Spacing (NPS) - continued

File	Number of First Returns	Area	Point Density	NPS
00692.las	68,138,901	22,785,676	2.990/0.278	0.578/1.896
00692.las + others	484,970,625	22,832,448	21.240/1.973	0.217/0.712 *
00693.las	68,123,937	23,477,021	2.902/0.270	0.587/1.926
00693.las + others	501,636,247	23,557,808	21.294/1.978	0.217/0.712 *
00694.las	655,540,140	226,298,939	2.897/0.269	0.588/1.929
00694.las + 00695.las	1,309,319,278	212,276,352	6.168/0.573	0.403/1.322 *
00696.las	82,834,449	21,368,794	3.876/0.360	0.508/1.667
00696.las + others	478,246,976	21,420,464	22.327/2.074	0.212/0.696 *
00697.las	118,776,678	29,819,067	3.983/0.370	0.501/1.644
00697.las + others	660,049,468	29,865,168	22.101/2.053	0.213/0.699 *
00698.las	83,148,346	21,999,741	3.780/0.351	0.514/1.686
00698.las + others	488,552,430	22,088,096	22.118/2.055	0.213/0.699 *
00699.las	118,844,388	30,587,761	3.885/0.361	0.507/1.663
00699.las + others	684,249,274	30,699,232	22.289/2.071	0.212/0.696 *
00700.las	623,196,001	222,350,060	2.803/0.260	0.597/1.959
00700.las + 00701.las	1,194,295,588	222,358,704	5.371/0.499	0.431/1.414 *
00702.las	148,707,614	40,449,601	3.676/0.342	0.522/1.713
00702.las + others	882,674,883	40,454,384	21.819/2.027	0.214/0.702 *
00703.las	148,888,271	41,417,242	3.595/0.334	0.527/1.729
00703.las + others	917,431,370	41,506,992	22.103/2.053	0.213/0.699 *
00704.las	696,110,662	221,758,623	3.139/0.292	0.564/1.850
00704.las + 00705.las	1,348,720,380	220,634,096	6.113/0.568	0.404/1.325 *
00706.las	69,835,651	23,844,533	2.929/0.272	0.584/1.916
00706.las + 00707.las	134,018,088	23,890,320	5.610/0.521	0.422/1.385 *
00708.las	605,224,234	218,821,324	2.766/0.257	0.601/1.972
00708.las + 00709.las	1,160,269,050	218,454,000	5.311/0.493	0.434/1.424 *
00710.las	682,698,687	217,171,224	3.144/0.292	0.564/1.850
00710.las + 00711.las	1,323,719,512	215,272,208	6.149/0.571	0.403/1.322 *
00712.las	59,206,131	19,957,380	2.967/0.276	0.581/1.906
00712.las + others	434,845,198	19,979,088	21.765/2.022	0.214/0.702 *
00713.las	59,280,187	20,485,878	2.894/0.269	0.588/1.929
00713.las + others	453,725,744	20,568,320	22.059/2.049	0.213/0.699 *
00714.las	591,168,818	212,957,020	2.776/0.258	0.600/1.969
00714.las + 00715.las	1,131,837,768	211,998,112	5.339/0.496	0.433/1.421 *

## C-4 Report on Nominal Pulse Spacing (NPS) - continued

File	Number of First Returns	Area	Point Density	NPS
00716.las	87,057,103	23,155,454	3.760/0.349	0.516/1.693
00716.las + others	581,841,602	23,211,344	25.067/2.329	0.200/0.656 *
00717.las	86,500,846	23,609,727	3.664/0.340	0.522/1.713
00717.las + others	596,842,645	23,693,632	25.190/2.340	0.199/0.653 *
00718.las	78,253,320	27,681,967	2.827/0.263	0.595/1.952
00718.las + 00719.las	149,314,888	26,818,896	5.568/0.517	0.424/1.391 *
00720.las	120,563,479	43,475,203	2.773/0.258	0.600/1.969
00720.las + 00721.las	233,286,019	40,483,280	5.763/0.535	0.417/1.368 *
00722.las	76,562,448	30,385,882	2.520/0.234	0.630/2.067
00722.las + others	792,164,608	27,892,400	28.401/2.639	0.188/0.617 *
00723.las	78,237,078	30,365,988	2.576/0.239	0.623/2.044
00723.las + others	823,951,290	28,750,880	28.658/2.662	0.187/0.614 *
00724.las	40,947,437	16,650,212	2.459/0.228	0.638/2.093
00724.las + others	437,847,138	14,779,440	29.625/2.752	0.184/0.604 *
00725.las	42,634,902	17,294,774	2.465/0.229	0.637/2.090
00725.las + others	462,689,692	15,426,624	29.993/2.786	0.183/0.600 *
00726.las	17,151,696	4,773,225	3.593/0.334	0.528/1.732
00726.las + others	176,600,114	4,832,848	36.542/3.395	0.165/0.541 *
00727.las	17,998,494	5,085,527	3.539/0.329	0.532/1.745
00727.las + others	187,903,526	5,152,288	36.470/3.388	0.166/0.545 *
00728.las	38,937,111	9,384,942	4.149/0.385	0.491/1.611
00728.las + others	332,678,891	9,491,792	35.049/3.256	0.169/0.554 *
00730.las	12,537,788	4,037,797	3.105/0.288	0.567/1.860
00730.las + 00733.las	25,001,415	4,072,400	6.139/0.570	0.404/1.325 *
00731.las	13,048,445	4,350,589	2.999/0.279	0.577/1.893
00731.las + 00817.las	26,925,355	4,385,648	6.139/0.570	0.404/1.325 *
00732.las	35,035,034	10,737,635	3.263/0.303	0.554/1.818
00732.las + others	412,130,032	10,773,104	38.255/3.554	0.162/0.531 *
00734.las	37,844,137	12,106,719	3.126/0.290	0.566/1.857
00734.las + 00735.las	72,942,834	12,159,648	5.999/0.557	0.408/1.339 *
00736.las	408,337,994	129,337,552	3.157/0.293	0.563/1.847
00736.las + 00737.las	781,041,987	129,426,896	6.035/0.561	0.407/1.335 *
00738.las	379,343,110	132,302,757	2.867/0.266	0.591/1.939
00738.las + 00739.las	728,455,920	132,258,912	5.508/0.512	0.426/1.398 *

## C-4 Report on Nominal Pulse Spacing (NPS) - continued

File	Number of First Returns	Area	Point Density	NPS
00740.las	411,536,277	132,236,639	3.112/0.289	0.567/1.860
00740.las + 00741.las	787,571,162	132,286,864	5.954/0.553	0.410/1.345 *
00742.las	391,771,835	130,893,174	2.993/0.278	0.578/1.896
00742.las + 00743.las	750,676,879	130,514,400	5.752/0.534	0.417/1.368 *
00744.las	412,281,694	130,743,859	3.153/0.293	0.563/1.847
00744.las + 00745.las	790,986,257	130,859,056	6.045/0.562	0.407/1.335 *
00746.las	414,275,742	130,971,481	3.163/0.294	0.562/1.844
00746.las + 00747.las	795,192,145	130,888,336	6.075/0.564	0.406/1.332 *
00748.las	79,945,657	25,080,428	3.188/0.296	0.560/1.837
00748.las + 00749.las	151,178,817	25,099,088	6.023/0.560	0.407/1.335 *
00750.las	405,583,734	128,811,502	3.149/0.293	0.564/1.850
00750.las + 00755.las	767,626,377	128,925,584	5.954/0.553	0.410/1.345 *
00751.las	402,574,969	109,816,309	3.666/0.341	0.522/1.713
00751.las + others	2,305,633,821	110,186,672	20.925/1.944	0.219/0.719 *
00752.las	480,009,627	133,960,711	3.583/0.333	0.528/1.732
00752.las + 00753.las	918,238,239	133,799,616	6.863/0.638	0.382/1.253 *
00754.las	393,273,832	128,444,434	3.062/0.284	0.571/1.873
00754.las + others	2,817,171,758	128,388,672	21.943/2.039	0.213/0.699 *
00756.las	398,946,102	126,354,032	3.157/0.293	0.563/1.847
00756.las + 00757.las	764,665,350	126,410,368	6.049/0.562	0.407/1.335 *
00758.las	420,762,686	132,926,920	3.165/0.294	0.562/1.844
00758.las + 00759.las	808,173,100	132,813,696	6.085/0.565	0.405/1.329 *
00760.las	407,155,078	127,339,260	3.197/0.297	0.559/1.834
00760.las + 00761.las	775,868,231	127,474,992	6.086/0.565	0.405/1.329 *
00762.las	484,525,524	134,567,057	3.601/0.335	0.527/1.729
00762.las + 00763.las	930,017,338	134,287,232	6.926/0.643	0.380/1.247 *
00764.las	74,855,782	22,826,453	3.279/0.305	0.552/1.811
00764.las + 00765.las	141,524,807	22,877,520	6.186/0.575	0.402/1.319 *
00766.las	397,151,465	126,081,423	3.150/0.293	0.563/1.847
00766.las + 00767.las	760,568,184	126,109,392	6.031/0.560	0.407/1.335 *
00768.las	423,338,152	133,064,195	3.181/0.296	0.561/1.841
00768.las + 00769.las	814,902,674	133,062,352	6.124/0.569	0.404/1.325 *
00770.las	350,909,380	103,879,022	3.378/0.314	0.544/1.785
00770.las + 00771.las	673,837,935	112,245,440	6.003/0.558	0.408/1.339 *

## C-4 Report on Nominal Pulse Spacing (NPS) - continued

File	Number of First Returns	Area	Point Density	NPS
00772.las	543,110,580	149,070,006	3.643/0.338	0.524/1.719
00772.las + 00773.las	1,042,575,134	148,711,168	7.011/0.651	0.378/1.240 *
00774.las	353,265,327	116,477,319	3.033/0.282	0.574/1.883
00774.las + 00775.las	679,133,310	116,297,168	5.840/0.543	0.414/1.358 *
00776.las	457,560,041	143,021,655	3.199/0.297	0.559/1.834
00776.las + 00777.las	878,949,753	143,076,416	6.143/0.571	0.403/1.322 *
00778.las	341,330,808	113,112,240	3.018/0.280	0.576/1.890
00778.las + 00779.las	653,658,377	112,910,656	5.789/0.538	0.416/1.365 *
00780.las	539,281,957	146,264,429	3.687/0.343	0.521/1.709
00780.las + 00781.las	1,035,576,048	146,071,600	7.090/0.659	0.376/1.234 *
00782.las	418,325,165	127,503,131	3.281/0.305	0.552/1.811
00782.las + 00783.las	802,124,610	127,442,896	6.294/0.585	0.399/1.309 *
00784.las	423,500,542	129,925,206	3.260/0.303	0.554/1.818
00784.las + 00785.las	813,435,171	129,934,016	6.260/0.582	0.400/1.312 *
00786.las	353,219,865	108,585,211	3.253/0.302	0.554/1.818
00786.las + 00787.las	673,058,143	107,939,808	6.235/0.579	0.400/1.312 *
00788.las	504,050,488	150,382,659	3.352/0.311	0.546/1.791
00788.las + 00789.las	964,431,653	150,402,880	6.412/0.596	0.395/1.296 *
00790.las	394,475,409	117,817,523	3.348/0.311	0.547/1.795
00790.las + 00791.las	756,457,346	119,982,352	6.305/0.586	0.398/1.306 *
00792.las	400,672,386	132,964,986	3.013/0.280	0.576/1.890
00792.las + 00793.las	768,703,356	132,948,080	5.782/0.537	0.416/1.365 *
00794.las	397,103,483	116,431,797	3.411/0.317	0.541/1.775
00794.las + 00795.las	757,717,739	115,032,016	6.587/0.612	0.390/1.280 *
00796.las	454,356,747	135,110,815	3.363/0.312	0.545/1.788
00796.las + 00797.las	868,676,854	135,031,744	6.433/0.598	0.394/1.293 *
00798.las	455,131,466	150,493,660	3.024/0.281	0.575/1.886
00798.las + 00823.las	872,024,660	150,159,712	5.807/0.539	0.415/1.362 *
00800.las	321,059,803	101,593,356	3.160/0.294	0.563/1.847
00800.las + 00812.las	644,111,643	101,920,480	6.320/0.587	0.398/1.306 *
00801.las	22,923,463	7,133,314	3.214/0.299	0.558/1.831
00801.las + 00811.las	44,053,033	7,158,688	6.154/0.572	0.403/1.322 *
00802.las	39,344,571	12,094,605	3.253/0.302	0.554/1.818
00802.las + others	458,378,850	12,149,904	37.727/3.505	0.163/0.535 *

## C-4 Report on Nominal Pulse Spacing (NPS) - continued

File	Number of First Returns	Area	Point Density	NPS
00803.las	76,319,468	25,058,108	3.046/0.283	0.573/1.880
00803.las + 00810.las	150,446,890	25,104,480	5.993/0.557	0.408/1.339 *
00804.las	482,911,671	171,460,147	2.816/0.262	0.596/1.955
00804.las + 00805.las	962,951,129	171,924,480	5.601/0.520	0.423/1.388 *
00806.las	14,237,637	4,155,996	3.426/0.318	0.540/1.772
00806.las + others	137,083,060	4,206,272	32.590/3.028	0.175/0.574 *
00807.las	16,002,620	2,403,178	6.659/0.619	0.388/1.273
00807.las + 00838.las	22,427,560	2,324,624	9.648/0.896	0.322/1.056 *
00808.las	328,680,676	101,073,565	3.252/0.302	0.555/1.821
00808.las + 00814.las	629,178,791	101,059,648	6.226/0.578	0.401/1.316 *
00809.las	5,132,582	1,566,215	3.277/0.304	0.552/1.811
00809.las + others	50,093,884	1,583,536	31.634/2.939	0.178/0.584 *
00813.las	532,976,774	175,788,402	3.032/0.282	0.574/1.883
00813.las + 00837.las	1,019,202,364	175,675,488	5.802/0.539	0.415/1.362 *
00818.las	13,247,771	3,981,920	3.327/0.309	0.548/1.798
00818.las + others	131,080,220	4,033,120	32.501/3.019	0.175/0.574 *
00819.las	12,501,954	1,941,569	6.439/0.598	0.394/1.293
00819.las + others	47,875,493	1,796,976	26.642/2.475	0.194/0.636 *
00820.las	668,537,780	224,597,970	2.977/0.277	0.580/1.903
00820.las + 00826.las	1,349,381,138	225,246,432	5.991/0.557	0.409/1.342 *
00821.las	14,974,924	5,564,829	2.691/0.250	0.610/2.001
00821.las + others	205,782,503	5,592,912	36.793/3.418	0.165/0.541 *
00822.las	363,560,223	112,025,935	3.245/0.301	0.555/1.821
00822.las + 00827.las	695,492,802	112,151,136	6.201/0.576	0.402/1.319 *
00824.las	356,206,292	109,580,497	3.251/0.302	0.555/1.821
00824.las + others	1,565,052,449	109,735,360	14.262/1.325	0.265/0.869 *
00825.las	4,413,155	1,224,832	3.603/0.335	0.527/1.729
00825.las + others	40,686,432	1,241,312	32.777/3.045	0.175/0.574 *
00828.las	13,414,968	4,854,939	2.763/0.257	0.602/1.975
00828.las + others	177,286,150	4,881,504	36.318/3.374	0.166/0.545 *
00829.las	302,111,525	92,693,049	3.259/0.303	0.554/1.818
00829.las + 00830.las	604,121,152	93,024,352	6.494/0.603	0.392/1.286 *
00831.las	394,859,871	138,679,195	2.847/0.264	0.593/1.946
00831.las + 00834.las	786,329,512	139,262,896	5.646/0.525	0.421/1.381 *

## C-4 Report on Nominal Pulse Spacing (NPS) - continued

File	Number of First Returns	Area	Point Density	NPS
00832.las	76,288,671	24,498,105	3.114/0.289	0.567/1.860
00832.las + others	542,602,589	24,538,608	22.112/2.054	0.213/0.699 *
00833.las	482,083,753	166,875,372	2.889/0.268	0.588/1.929
00833.las + 00836.las	966,110,378	167,169,264	5.779/0.537	0.416/1.365 *
00835.las	406,255,829	127,728,956	3.181/0.296	0.561/1.841
00835.las + others	2,214,846,478	127,739,408	17.339/1.611	0.240/0.787 *
00000.las	1,427,057	134,801	10.586/0.983	0.307/1.007
00656.las	1,218,505	138,755	8.782/0.816	0.337/1.106
Average			8.022/0.745	0.353/1.158
			<small>pp Square Meter/ pp Square US Survey Foot</small>	<small>Meter/ US Survey Feet</small>
196.595468068	6,813,589,354	509,179,925	13.381/1.243	0.273/0.896
4901.12240697	187,042,598,536	12,693,848,760	14.735/1.369	0.261/0.856
Aggregate	193,856,187,890	13,203,028,684	14.683/1.364	0.261/0.856
			<small>pp Square Meter/ pp Square US Survey Foot</small>	<small>Meter/ US Survey Feet</small>

\* - indicates a swath whose NPS and Point Density were brought up to specifications due to the inclusion of one or more re-flight swaths.