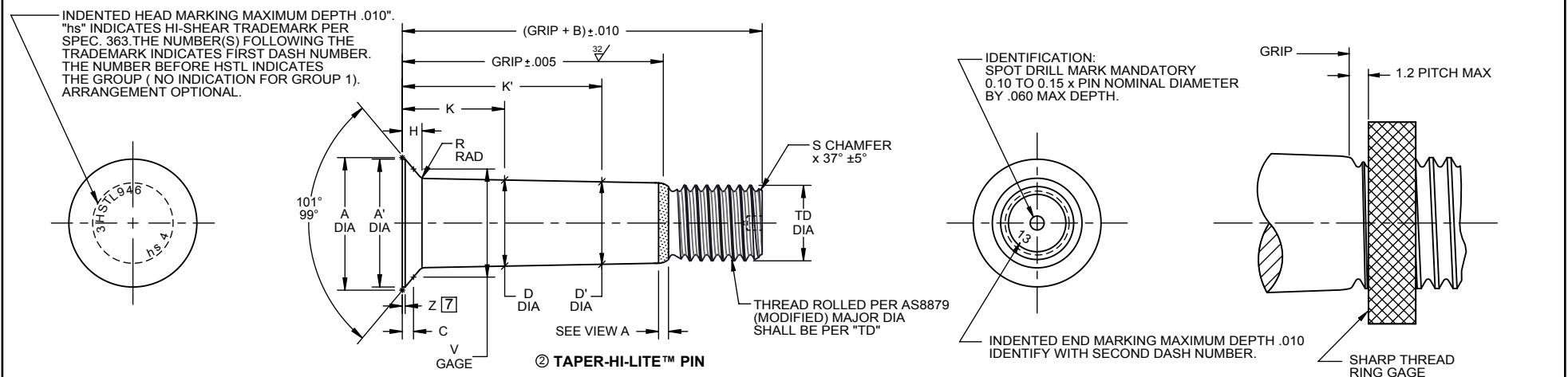
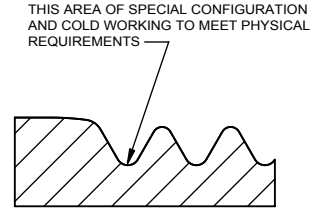




① ⑨ TABLE 1 ⑦

FIRST DASH NO.	PIN NOM DIA	GROUP NO.	A DIA MAX	A' DIA MIN	B (REF)	C		F	H MAX	K +.040 -.000	R RAD +.010 -.000	S MAX	V GAGE +.0002 -.0000	X	Y	Z MAX	THREAD	TD DIA	DOUBLE SHEAR POUNDS MINIMUM	TENSION POUNDS MINIMUM	TENSION-TENSION FATIGUE LBS. MAX.
						NOM	TOL.														
3	3/16	-	-	-	.290	-	±.0020	.007	.063	.0885	.020	.027	.2592	.002	.0045	.015	.1900-32 UNJF-3A	.1840 .1810	5380	2800	1000
		2	.356	.308		.0377															
		3	.366	.318		.0419															
		4	.377	.328		.0464															
4	1/4	-	-	-	.320	-	±.0023	.008	.079	.1075	.020	.031	.3776	.002	.0045	.015	.2500-28 UNJF-3A	.2440 .2410	9300	5100	1800
		2	.462	.413		.0326															
		3	.476	.426		.0381															
		4	.489	.439		.0435															
5	5/16	-	-	-	.380	-	±.0025	.009	.094	.1245	.030	.035	.4788	.002	.0045	.015	.3125-24 UNJF-3A	.3060 .3020	14600	7800	2700
		2	.564	.514		.0325															
		3	.578	.528		.0384															
		4	.592	.541		.0440															
6	3/8	-	-	-	.420	-	±.0028	.010	.112	.1415	.030	.035	.5696	.003	.0060	.015	.3750-24 UNJF-3A	.3680 .3640	21000	11700	4100
		2	.672	.620		.0393															
		3	.687	.635		.0456															
		4	.702	.649		.0517															
7	7/16	-	-	-	.485	-	±.0030	.011	.133	.1700	.040	.040	.6580	.004	.0060	.022	.4375-20 UNJF-3A	.4310 .4260	28600	15100	5300
		2	.790	.720		.0514															
		3	.808	.737		.0587															
		4	.826	.755		.0663															
8	1/2	-	-	-	.525	-	±.0033	.012	.144	.1790	.040	.040	.7198	.004	.0060	.022	.5000-20 UNJF-3A	.4930 .4880	37300	20200	7100
		2	.885	.813		.0649															
		3	.906	.833		.0735															
		4	.927	.853		.0821															
9	9/16	-	-	-	.600	-	±.0035	.014	.162	.2175	.060	.045	.8900	.005	.0060	.024	.5625-18 UNJF-3A	.5550 .5500	47200	25500	8900
		2	1.009	.932		.0454															
		3	1.040	.962		.0582															
		4	1.071	.992		.0710															
10	5/8	-	-	-	.640	-	±.0038	.014	.181	.2175	.060	.045	1.0026	.005	.0060	.026	.6250-18 UNJF-3A	.6180 .6120	58300	32200	11300
		2	1.124	1.041		.0462															
		3	1.158	1.073		.0600															
		4	1.192	1.107		.0743															
12	3/4	-	-	-	.895	-	±.0040	.016	.239	.3050	.070	.045	1.1122	.005	.0060	.030	.7500-16 UNJF-3A	.7430 .7370	83900	46300	16200
		2	1.397	1.298		.1133															
		3	1.436	1.336		.1295															
		4	1.475	1.374		.1456															

THREAD FUNCTIONALITY



VIEW A
 HI-LITE™ THREAD TRANSITION AREA
 SEE SPECIFICATION FOR INSPECTION

② "TAPER-HI-LITE", AND "HI-KOTE", ARE TRADEMARKS OF LISI AEROSPACE

DRAWN BY J.F.OBISPO	DATE 2004-04-13	② TITLE TAPER-HI-LITE™ PIN 100° FLUSH SHEAR HEAD TAPER SHANK, TITANIUM 1/16 GRIP VARIATION, 1st OVERSIZE
APPROVED M.CAWLEY	DATE 2004-04-28	
REVISION ②	DATE F.CARINGELLA 2019-05-30	DRAWING NUMBER HSTL946 1 OF 6

1 9 **TABLE 1 (CONTINUED)** 7

FIRST DASH NO.	PIN NOM DIA	GROUP NO.	A DIA MAX	A' DIA MIN	B (REF)	C		F	H MAX	K +.040 -.000	R RAD +.010 -.000	S MAX	V GAGE +.0002 -.0000	X	Y	Z MAX	THREAD	TD DIA	DOUBLE SHEAR POUNDS MINIMUM	TENSION POUNDS MINIMUM	TENSION-TENSION FATIGUE LBS. MAX.
						NOM	TOL.														
14	7/8	-	-	-	1.000	-	-	.016	.273	.3205	.070	.050	1.3600	.006	.0080	.034	.8750-14 UNJF-3A	.8680 .8610	107000	61900	21700
		2	1.622	1.512		.1034	±.0045														
		3	1.669	1.558		.1229															
		4	1.716	1.604		.1426															
16	1	-	-	-	1.160	-	-	.016	.280	.3050	.070	.050	1.5730	.006	.0080	.034	1.0000-12 UNJF-3A	.9930 .9860	140000	73400	25700
		2	1.7722	1.7235		.0781	±.0048														
		3	1.8242	1.7755		.0995															
		4	1.8763	1.8276		.1212															

- GENERAL NOTES:**
- 1 Head edge out of roundness shall not exceed F.
 2. Concentricity: Conical surface of head to and taper shank at K to be within X values FIM.
Taper shank at K' and thread pitch diameter to be within Y values FIM.
 3. H is dimensioned from maximum D diameter.
 4. Dimensions are in inches and to be met after finish and prior to application of lubricant.
 5. Surface texture per ASME B46.1.
 6. Top of head to be flat to .0025 max convex. Concave condition not allowed.
 - 7 Curved or flat edge manufacturer's option.
 8. Use HSTL947 for oversize replacement.
 - 9 For -3 grip length the tolerance on "K" and "K' " is -.000/+.030, and for -4 grip length the tolerance on "K" and "K' " is -.000/+.035.

MATERIAL: 6Al-4V titanium alloy per AMS4928 or AMS4967.

HEAT TREAT: 160,000 psi tensile minimum and 95,000 psi shear minimum for sizes up to 3/4.
150,000 psi tensile minimum and 90,000 psi shear minimum for sizes up to 7/8 and larger.

FINISH: HSTL946BM()-() = HI-KOTE™ 1NC aluminum coating per Hi-Shear Spec. 294, with color white on the thread end, and cetyl alcohol lube per Hi-Shear Spec. 305.

SPECIFICATION: HI-LITE™ Product Specification 414. ②

CODE: First dash number indicates nominal diameter in 1/16ths.
Second dash number indicates maximum grip in 1/16ths.
See Finish note for explanation of code letters.

HOW TO ORDER

EXAMPLE:

Pin Part Number
 HSTL946BM4-13

└─ 13/16 Maximum Grip Length
 └─ 1/4 Nominal Diameter Pin
 └─ Finish Code
 └─ Pin Basic Part Number

HSTL946

DRAWING NUMBER

HSTL946

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TABLE 2

SECOND DASH NO.	3/16"				1/4"				5/16"				3/8"				7/16"				SECOND DASH NO.
	D DIA	K' +.040 -.000	D' DIA	GROUP NO.	D DIA	K' +.040 -.000	D' DIA	GROUP NO.	D DIA	K' +.040 -.000	D' DIA	GROUP NO.	D DIA	K' +.040 -.000	D' DIA	GROUP NO.	D DIA	K' +.040 -.000	D' DIA	GROUP NO.	
1		-	-			-	-			-	-			-	-			-	-		1
2		-	-			-	-			-	-			-	-			-	-		2
3		.1300	.2096			.1300	.2749			.1300	.3402			-	-			-	-		3
4		.1925	.2083			.1925	.2736			.1925	.3389			.1975	.4042			-	-		4
5	.2105	.2550	.2070	2	.2754	.2550	.2723	2	.3403	.2550	.3376	2		.2550	.4029	2	.4726	.2550	.4708	2	5
6		.3175	.2057			.3175	.2710			.3175	.3363		.4053	.3175	.4016			.3175	.4695		6
7		.3800	.2044			.3800	.2697			.3800	.3350			.3800	.4003			.3800	.4682		7
8		.4425	.2031			.4425	.2684			.4425	.3337			.4425	.3990			.4425	.4669		8
9		.5050	.2122			.5050	.2671			.5050	.3324			.5050	.3977			.5050	.4656		9
10		.5675	.2109			.5675	.2658			.5675	.3311			.5675	.3964			.5675	.4643		10
11		.6300	.2096			.6300	.2775			.6300	.3298			.6300	.3951			.6300	.4630		11
12	.2209	.6925	.2083	3		.6925	.2762			.6925	.3428			.6925	.3938			.6925	.4617		12
13		.7550	.2070			.7550	.2749			.7550	.3415			.7550	.4081			.7550	.4604		13
14		.8175	.2057			.8175	.2736			.8175	.3402			.8175	.4068			.8175	.4591		14
15		.8800	.2044			.8800	.2723			.8800	.3389			.8800	.4055			.8800	.4760		15
16		.9425	.2031		.2884	.9425	.2720	3	.3547	.9425	.3376	3		.9425	.4042			.9425	.4747		16
17		1.0050	.2122			1.0050	.2697			1.0050	.3363			1.0050	.4029			1.0050	.4734		17
18		1.0675	.2109			1.0675	.2684			1.0675	.3350			1.0675	.4016			1.0675	.4721		18
19		1.1300	.2096			1.1300	.2671			1.1300	.3337		.4209	1.1300	.4003	3		1.1300	.4708		19
20		1.1925	.2083			1.1925	.2658			1.1925	.3324			1.1925	.3990			1.1925	.4695		20
21	.2313	1.2550	.2070	4		1.2550	.2775			1.2550	.3311			1.2550	.3977		.4908	1.2550	.4682	3	21
22		1.3175	.2057			1.3175	.2762			1.3175	.3298			1.3175	.3964			1.3175	.4669		22
23		1.3800	.2044			1.3800	.2749			1.3800	.3428			1.3800	.3951			1.3800	.4656		23
24		1.4425	.2031			1.4425	.2736			1.4425	.3415			1.4425	.3938			1.4425	.4643		24
25						1.5050	.2723			1.5050	.3402			1.5050	.4081			1.5050	.4630		25
26					.3014	1.5675	.2710	4		1.5675	.3389			1.5675	.4068			1.5675	.4617		26
27						1.6300	.2697			1.6300	.3376			1.6300	.4055			1.6300	.4604		27
28						1.6925	.2684			1.6925	.3363	4		1.6925	.4042			1.6925	.4591		28
29						1.7550	.2671			1.7550	.3350			1.7550	.4029			1.7550	.4760		29
30						1.8175	.2658			1.8175	.3337			1.8175	.4016	4		1.8175	.4747		30
31										1.8800	.3324		.4365	1.8800	.4003			1.8800	.4734		31
32										1.9425	.3311			1.9425	.3990			1.9425	.4721		32
33										2.0050	.3298			2.0050	.3977			2.0050	.4708		33
34														2.0675	.3964			2.0675	.4695		34
35														2.1300	.3951		.5091	2.1300	.4682	4	35
36														2.1925	.3938			2.1925	.4669		36
37														2.2551	.4081			2.2550	.4656		37
38														2.3173	.4068			2.3175	.4643		38
39														2.3799	.4055			2.3800	.4630		39
40														2.4425	.4042			2.4425	.4617		40
41														2.5051	.4029			2.5050	.4604		41
42														2.5673	.4016			2.5675	.4591		42
43													.4524	2.6299	.4003	5					43
44														2.6925	.3990						44
45														2.7551	.3977						45
46														2.8173	.3964						46
47														2.8799	.3951						47
48														2.9425	.3938						48
49																					49

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DRAWING NUMBER

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TABLE 2 (CONTINUED)

SECOND DASH NO.	1/2"				9/16"								
	D DIA	K' +.040 -.000	D' DIA	GROUP NO.	D DIA	K' +.040 -.000	D' DIA	GROUP NO.	SECOND DASH NO.	D DIA	K' +.040 -.000	D' DIA	GROU NO.
5	.5400	.2550	.5384	2	.6230	-	-	2	-	.6854	-	-	4
6		.3175	.5371			.3175	.6208		65		4.0050	.6065	
7		.3800	.5358			.3800	.6195		66		4.0675	.6052	
8		.4425	.5345			.4425	.6182		67		4.1300	.6039	
9		.5050	.5332			.5050	.6169		68		4.1925	.6026	
10		.5675	.5319			.5675	.6156		69		4.2550	.6013	
11		.6300	.5306			.6300	.6143		70		4.3175	.6000	
12		.6925	.5292			.6925	.6130		71		4.3800	.5987	
13		.7550	.5280			.7550	.6117		72		4.4425	.5974	
14		.8175	.5267			.8175	.6104						
15	.8800	.5254	.8800	.6091									
16	.9425	.5241	.9425	.6078									
17	.5609	1.0050	.5436	3		1.0050	.6065	3					
18		1.0675	.5423			1.0675	.6052						
19		1.1300	.5410			1.1300	.6039						
20		1.1925	.5397			1.1925	.6026						
21		1.2550	.5384			1.2550	.6013						
22		1.3175	.5371			1.3175	.6000						
23		1.3800	.5358			1.3800	.5987						
24		1.4425	.5345			1.4425	.5974						
25		1.5050	.5332			1.5050	.6273						
26		1.5675	.5319			1.5675	.6260						
27	1.6300	.5306	1.6300	.6247									
28	1.6925	.5293	1.6925	.6234									
29	1.7550	.5280	1.7550	.6221									
30	1.8175	.5267	1.8175	.6208									
31	1.8800	.5254	1.8800	.6195									
32	1.9425	.5241	1.9425	.6182									
33	.5817	2.0050	.5436	4	.6542	2.0050	.6169	4					
34		2.0675	.5423			2.0675	.6156						
35		2.1300	.5410			2.1300	.6143						
36		2.1925	.5397			2.1925	.6130						
37		2.2550	.5384			2.2550	.6117						
38		2.3175	.5371			2.3175	.6104						
39		2.3800	.5358			2.3800	.6091						
40		2.4425	.5345			2.4425	.6078						
41		2.5050	.5332			2.5050	.6065						
42		2.5675	.5319			2.5675	.6052						
43	2.6300	.5306	2.6300	.6039									
44	2.6925	.5293	2.6925	.6026									
45	2.7550	.5280	2.7550	.6013									
46	2.8175	.5267	2.8175	.6000									
47	2.8800	.5254	2.8800	.5987									
48	2.9425	.5241	2.9425	.5974									
49	.6025	3.0050	.5436	5	.6854	3.0050	.6273	4					
50		3.0675	.5423			3.0675	.6260						
51		3.1300	.5410			3.1300	.6247						
52		3.1925	.5397			3.1925	.6234						
53		3.2550	.5384			3.2550	.6221						
54		3.3175	.5371			3.3175	.6208						
55		3.3800	.5358			3.3800	.6195						
56		3.4425	.5345			3.4425	.6182						
57		3.5050	.5332			3.5050	.6169						
58		3.5675	.5319			3.5675	.6156						
59	3.6300	.5306	3.6300	.6143									
60	3.6925	.5293	3.6925	.6130									
61	3.7550	.5280	3.7550	.6117									
62	3.8175	.5267	3.8175	.6104									
63	3.8800	.5254	3.8800	.6091									
64	3.9425	.5241	3.9425	.6078									

	5/8"										
SECOND DASH NO.	D DIA	K' +.040 -.000	D' DIA	GROUP NO.	SECOND DASH NO.	D DIA	K' +.040 -.000	D' DIA	GROUP NO.		
5	.6913	-	-	2	-	.7591	-	-	4		
6		-	-		-		-				
7		.3800	.6879		53		3.2550	.6957			
8		.4425	.6866		54		3.3175	.6944			
9		.5050	.6853		55		3.3800	.6931			
10		.5675	.6840		56		3.4425	.6918			
11		.6300	.6827		57		3.5050	.6905			
12		.6925	.6814		58		3.5675	.6892			
13		.7550	.6801		59		3.6300	.6879			
14		.8175	.6788		60		3.6925	.6866			
15		.8800	.6775		61		3.7550	.6853			
16		.9425	.6762		62		3.8175	.6840			
17		1.0050	.6749		63		3.8800	.6827			
18		1.0675	.6736		64		3.9425	.6814			
19		1.1300	.6723		65		4.0050	.6801			
20		1.1925	.6710		66		4.0675	.6788			
21		1.2550	.6697		67		4.1300	.6775			
22		1.3175	.6684		68		4.1925	.6762			
23		1.3800	.6671		69		4.2550	.6749			
24		1.4425	.6658		70		4.3175	.6736			
25		1.5050	.6645		71		4.3800	.6723			
26		1.5675	.6632		72		4.4425	.6710			
27		.7252	1.6300		.6957		3	73		4.5050	.6697
28			1.6925		.6944			74		4.5675	.6684
29			1.7550		.6931			75		4.6300	.6671
30			1.8175		.6918			76		4.6925	.6658
31	1.8800		.6905	77	4.7550	.6645					
32	1.9425		.6892	78	4.8175	.6632					
33	2.0050		.6879								
34	2.0675		.6866								
35	2.1300		.6853								
36	2.1925		.6840								
37	2.2550		.6827								
38	2.3175		.6814								
39	2.3800		.6801								
40	2.4425		.6788								
41	2.5050		.6775								
42	2.5675		.6762								
43	2.6300		.6749								
44	2.6925		.6736								
45	2.7550		.6723								
46	2.8175		.6710								
47	2.8800		.6697								
48	2.9425		.6684								
49	3.0050		.6671								
50	3.0675		.6658								
51	3.1300		.6645								
52	3.1925		.6632								

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DRAWING NUMBER

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TABLE 2 (CONTINUED)

3/4"									
SECOND DASH NO.	D DIA	K' +.040 -.000	D' DIA	GROUP NO.	SECOND DASH NO.	D DIA	K' +.040 -.000	D' DIA	GROUP NO.
5	.8266	-	-	2	5	.9048	-	-	4
6		-	-		6		-	-	
7		-	-		7		-	-	
8		.4425	.8238		8		4.0050	.8277	
9		.5050	.8225		9		4.0675	.8264	
10		.5675	.8212		10		4.1300	.8251	
11		.6300	.8199		11		4.1925	.8238	
12		.6925	.8186		12		4.2550	.8225	
13		.7550	.8173		13		4.3175	.8212	
14		.8175	.8160		14		4.3800	.8199	
15		.8800	.8147		15		4.4425	.8186	
16		.9425	.8134		16		4.5050	.8173	
17		1.0050	.8121		17		4.5675	.8160	
18		1.0675	.8108		18		4.6300	.8147	
19		1.1300	.8095		19		4.6925	.8134	
20		1.1925	.8082		20		4.7550	.8121	
21		1.2550	.8069		21		4.8175	.8108	
22		1.3175	.8056		22		4.8800	.8095	
23		1.3800	.8043		23		4.9425	.8082	
24		1.4425	.8030		24		5.0050	.8069	
25		1.5050	.8017		25		5.0675	.8056	
26		1.5675	.8004		26		5.1300	.8043	
27		1.6300	.7991		27		5.1925	.8030	
28		1.6925	.7978		28		5.2550	.8017	
29		1.7550	.7965		29		5.3175	.8004	
30		1.8175	.7952		30		5.3800	.7991	
31		.8657	1.8800		.8329		3	31	
32	1.9425		.8316	32	5.5050	.7965			
33	2.0050		.8303	33	5.5675	.7952			
34	2.0675		.8290	34					
35	2.1300		.8277	35					
36	2.1925		.8264	36					
37	2.2550		.8251	37					
38	2.3175		.8238	38					
39	2.3800		.8225	39					
40	2.4425		.8212	40					
41	2.5050		.8199	41					
42	2.5675		.8186	42					
43	2.6300		.8173	43					
44	2.6925		.8160	44					
45	2.7550		.8147	45					
46	2.8175		.8134	46					
47	2.8800		.8121	47					
48	2.9425		.8108	48					
49	3.0050		.8095	49					
50	3.0675		.8082	50					
51	3.1300		.8069	51					
52	3.1925		.8056	52					
53	3.2550		.8043	53					
54	3.3175		.8030	54					
55	3.3800		.8017	55					
56	3.4425		.8004	56					
57	3.5050		.7991	57					
58	3.5675	.7978	58						
59	3.6300	.7965	59						
60	3.6925	.7952	60						
61	.9048	3.7550	.8329	4	61				
62		3.8175	.8316		62				
63		3.8800	.8303		63				
64		3.9425	.8290		64				

7/8"									
SECOND DASH NO.	D DIA	K' + .040 - .000	D' DIA	GROUP NO.	SECOND DASH NO.	D DIA	K' + .040 - .000	D' DIA	GROUP NO.
5	.9684	-	-	2	-	-	-	-	3
6		-	-		65	1.0153	4.0050	.9385	
7		-	-		66	4.0675	.9372		
8		-	-		67	4.1300	.9359		
9		.5050	.9646		68	4.1925	.9346		
10		.5675	.9633		69	4.2550	.9333		
11		.6300	.9620		70	4.3175	.9320		
12		.6925	.9606		71	4.3800	.9307		
13		.7550	.9593		72	4.4425	.9294		
14		.8175	.9580		73	4.5050	.9280		
15		.8800	.9567		74	4.5675	.9273		
16		.9425	.9554		75	4.6300	.9274		
17		1.0050	.9541		76	4.6925	.9271		
18		1.0675	.9528		77	4.7550	.9698		
19		1.1300	.9515		78	4.8175	.9685		
20		1.1925	.9502		79	4.8800	.9672		
21		1.2550	.9489		80	4.9425	.9659		
22		1.3175	.9476		81	5.0050	.9646		
23		1.3800	.9463		82	5.0675	.9633		
24		1.4425	.9450		83	5.1300	.9620		
25		1.5050	.9437		84	5.1925	.9606		
26		1.5675	.9424		85	5.2550	.9593		
27	1.6300	.9411	86	5.3175	.9580				
28	1.6925	.9398	87	5.3800	.9567				
29	1.7550	.9385	88	5.4425	.9554	4			
30	1.8175	.9372	89	5.5050	.9541				
31	1.8800	.9359	90	5.5675	.9528				
32	1.9425	.9346	91	5.6300	.9515				
33	2.0050	.9333	92	5.6925	.9502				
34	2.0675	.9320	93	5.7550	.9489				
35	2.1300	.9307	94	5.8175	.9476				
36	2.1925	.9294	95	5.8800	.9463				
37	2.2550	.9280	96	5.9425	.9450				
38	2.3175	.9273	97	6.0050	.9437				
39	2.3800	.9274	98	6.0675	.9424				
40	2.4425	.9271	99	6.1300	.9411				
41	2.5050	.9698	100	6.1925	.9398				
42	2.5675	.9685	101	6.2550	.9385				
43	2.6300	.9672	102	6.3175	.9372				
44	2.6925	.9659	103	6.3800	.9359				
45	2.7550	.9646	104	6.4425	.9346				
46	2.8175	.9633	105	6.5050	.9333				
47	2.8800	.9620	106	6.5675	.9320				
48	2.9425	.9606	107	6.6300	.9307				
49	1.0153	3.0050	.9593	3	108	6.6925	.9294		
50		3.0675	.9580						
51		3.1300	.9567						
52		3.1925	.9554						
53		3.2550	.9541						
54		3.3175	.9528						
55		3.3800	.9515						
56		3.4425	.9502						
57		3.5050	.9489						
58		3.5675	.9476						
59		3.6300	.9463						
60		3.6925	.9450						
61		3.7550	.9437						
62		3.8175	.9424						
63		3.8800	.9411						
64		3.9425	.9398						

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DRAWING NUMBER

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TABLE 2 (CONTINUED)

1"									
SECOND DASH NO.	D DIA	K' +.040 -.000	D' DIA	GROUP NO.	SECOND DASH NO.	D DIA	K' +.040 -.000	D' DIA	GROUP NO.
5		-	-		-		-	-	
6		-	-		65	4.0050	1.1322		
7		-	-		66	4.0675	1.1309		
8		-	-		67	4.1300	1.1296		
9		-	-		68	4.1925	1.1283		
10		.5675	1.1518		69	4.2550	1.1270		
11		.6300	1.1505		70	4.3175	1.1257		
12		.6925	1.1492		71	4.3800	1.1244		
13		.7550	1.1479		72	4.4425	1.1231		
14		.8175	1.1466		73	4.5050	1.1218		
15		.8800	1.1453		74	4.5675	1.1205		
16		.9425	1.1439		75	4.6300	1.1192		
17		1.0050	1.1426		76	4.6925	1.1179		
18	1.1571	1.0675	1.1413	3	77	4.7550	1.1166		
19		1.1300	1.1400		78	4.8175	1.1153		
20		1.1925	1.1387		79	4.8800	1.1140		
21		1.2550	1.1374		80	4.9425	1.1127		
22		1.3175	1.1361		81	5.0050	1.1635		
23		1.3800	1.1348		82	5.0675	1.1622		
24		1.4425	1.1335		83	5.1300	1.1609		
25		1.5050	1.1322		84	5.1925	1.1596		
26		1.5675	1.1309		85	5.2550	1.1583		
27		1.6300	1.1296		86	5.3175	1.1570		
28		1.6925	1.1283		87	5.3800	1.1557		
29		1.7550	1.1270		88	5.4425	1.1544		
30		1.8175	1.1257		89	5.5050	1.1531		
31		1.8800	1.1244		90	5.5675	1.1518		
32		1.9425	1.1231		91	5.6300	1.1505		
33		2.0050	1.1218		92	5.6925	1.1492		
34		2.0675	1.1205		93	5.7550	1.1479		
35		2.1300	1.1192		94	5.8175	1.1466		
36		2.1925	1.1179		95	5.8800	1.1453		
37		2.2550	1.1166		96	5.9425	1.1439		
38		2.3175	1.1153		97	6.0050	1.1426		
39		2.3800	1.1140		98	6.0675	1.1413		
40		2.4425	1.1127		99	6.1300	1.1400		
41		2.5050	1.1635		100	6.1925	1.1387		
42		2.5675	1.1622		101	6.2550	1.1374		
43		2.6300	1.1609		102	6.3175	1.1361		
44		2.6925	1.1596		103	6.3800	1.1348		
45		2.7550	1.1583		104	6.4425	1.1335		
46		2.8175	1.1570		105	6.5050	1.1322		
47		2.8800	1.1557		106	6.5675	1.1309		
48		2.9425	1.1544		107	6.6300	1.1296		
49	1.2092	3.0050	1.1531	4	108	6.6925	1.1283		
50		3.0675	1.1518		109	6.7550	1.1270		
51		3.1300	1.1505		110	6.8175	1.1257		
52		3.1925	1.1492		111	6.8800	1.1244		
53		3.2550	1.1479		112	6.9425	1.1231		
54		3.3175	1.1466		113	7.0050	1.1218		
55		3.3800	1.1453		114	7.0675	1.1205		
56		3.4425	1.1439		115	7.1300	1.1192		
57		3.5050	1.1426		116	7.1925	1.1179		
58		3.5675	1.1413		117	7.2550	1.1166		
59		3.6300	1.1400		118	7.3175	1.1153		
60		3.6925	1.1387		119	7.3800	1.1140		
61		3.7550	1.1374		120	7.4425	1.1127		
62		3.8175	1.1361		-	-	-		
63		3.8800	1.1348		-	-	-		
64		3.9425	1.1335		-	-	-		

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