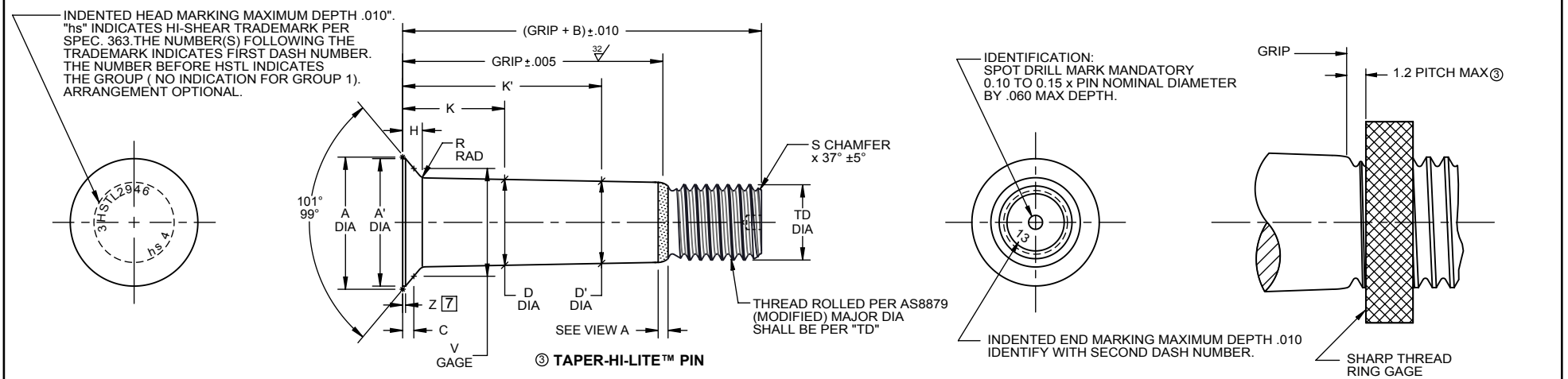
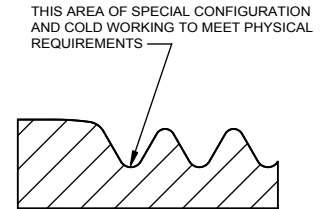




① ⑨ TABLE 1 ⑦

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	6125	3170	1100
		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	10600	5800	2000
		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	16600	8900	3100
		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	23900	13300	4600
		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	32500	17100	6000
		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	42400	23000	8000
		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	53700	29000	10100
		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	66300	36600	12800
		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	95400	63800	22300
		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

③ "TAPER-HI-LITE", AND "HI-KOTE", ARE TRADEMARKS OF LISI AEROSPACE	
DRAWN BY J.F.OBISPO	DATE 2006-10-17
APPROVED E.E.BEELES	DATE 2006-12-05
REVISION ③	DATE F.CARINGELLA 2019-05-30
TITLE TAPER-HI-LITE™ PIN 100° FLUSH SHEAR HEAD TAPER SHANK, ALLOY STEEL 1/16 GRIP VARIATION, 1st OVERSIZE DRAWING NUMBER HSTL2946	

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	129000	85300	29800
		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	168500	100000	35000
		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 HSTL2947 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: Alloy steel per AMS6415, AMS6349, AMS-S-6049.

HEAT TREAT: 108,000 psi shear minimum (180,000 - 200,000 psi tensile per AMS-H-6875).

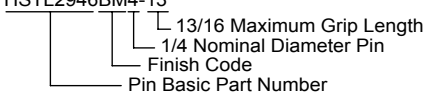
FINISH: HSTL2946BM()-() = HI-KOTE™ 1NC aluminum coating per Hi-Shear Spec. 294, with color white on the thread end, and cetyl alcohol lube per Hi-Shear Spec. 305.

SPECIFICATION: HI-LITE™ Product Specification 414.③

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
 HSTL2946BM4-13



HSTL2946

DRAWING NUMBER

HSTL2946

2 OF 6

9					9					TABLE 2					9					9												
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	.2105	-	-	2	.2754	-	-	2	.3403	-	-	2	.4053	-	-	2	.4726	-	-	2	1											
2		-	-			-	-			-	-			-	-			-	-			-	-	-	-	-	-	-	-	2		
3		.1300	.2096			.1300	.2749			.1300	.3402			.1300	.4003			.1300	.4682			.1300	.4708	.1300	.4695	.1300	.4682	.1300	.4682	.1300	.4682	3
4		.1925	.2083			.1925	.2736			.1925	.3389			.1925	.3990			.1925	.4669			.1925	.4695	.1925	.4669	.1925	.4695	.1925	.4669	.1925	.4669	4
5		.2550	.2070			.2550	.2723			.2550	.3376			.2550	.4029			.2550	.4708			.2550	.4708	.2550	.4708	.2550	.4708	.2550	.4708	.2550	.4708	5
6		.3175	.2057			.3175	.2710			.3175	.3363			.3175	.4016			.3175	.4695			.3175	.4695	.3175	.4695	.3175	.4695	.3175	.4695	.3175	.4695	6
7		.3800	.2044			.3800	.2697			.3800	.3350			.3800	.4003			.3800	.4682			.3800	.4682	.3800	.4682	.3800	.4682	.3800	.4682	.3800	.4682	7
8		.4425	.2031			.4425	.2684			.4425	.3337			.4425	.3990			.4425	.4669			.4425	.4669	.4425	.4669	.4425	.4669	.4425	.4669	.4425	.4669	8
9		.5050	.2122			.5050	.2671			.5050	.3324			.5050	.3977			.5050	.4656			.5050	.4656	.5050	.4656	.5050	.4656	.5050	.4656	.5050	.4656	9
10		.5675	.2109			.5675	.2658			.5675	.3311			.5675	.3964			.5675	.4643			.5675	.4643	.5675	.4643	.5675	.4643	.5675	.4643	.5675	.4643	10
11	.2209	.6300	.2096	3	.2884	.6300	.2775	3	.3547	.6300	.3298	3	.4209	.6300	.3951	3	.4908	.6300	.4630	3	11											
12		.6925	.2083			.6925	.2762			.6925	.3428			.6925	.3938			.6925	.4617			.6925	.4617	.6925	.4617	.6925	.4617	.6925	.4617	.6925	.4617	12
13		.7550	.2070			.7550	.2749			.7550	.3415			.7550	.4081			.7550	.4604			.7550	.4604	.7550	.4604	.7550	.4604	.7550	.4604	.7550	.4604	13
14		.8175	.2057			.8175	.2736			.8175	.3402			.8175	.4068			.8175	.4591			.8175	.4591	.8175	.4591	.8175	.4591	.8175	.4591	.8175	.4591	14
15		.8800	.2044			.8800	.2723			.8800	.3389			.8800	.4055			.8800	.4760			.8800	.4760	.8800	.4760	.8800	.4760	.8800	.4760	.8800	.4760	15
16		.9425	.2031			.9425	.2720			.9425	.3376			.9425	.4042			.9425	.4747			.9425	.4747	.9425	.4747	.9425	.4747	.9425	.4747	.9425	.4747	16
17		1.0050	.2122			1.0050	.2697			1.0050	.3363			1.0050	.4029			1.0050	.4734			1.0050	.4734	1.0050	.4734	1.0050	.4734	1.0050	.4734	1.0050	.4734	17
18		1.0675	.2109			1.0675	.2684			1.0675	.3350			1.0675	.4016			1.0675	.4721			1.0675	.4721	1.0675	.4721	1.0675	.4721	1.0675	.4721	1.0675	.4721	18
19		1.1300	.2096			1.1300	.2671			1.1300	.3337			1.1300	.4003			1.1300	.4708			1.1300	.4708	1.1300	.4708	1.1300	.4708	1.1300	.4708	1.1300	.4708	19
20		1.1925	.2083			1.1925	.2658			1.1925	.3324			1.1925	.3990			1.1925	.4695			1.1925	.4695	1.1925	.4695	1.1925	.4695	1.1925	.4695	1.1925	.4695	20
21	.2313	1.2550	.2070	4	.3014	1.2550	.2775	4	.3690	1.2550	.3311	4	.4365	1.2550	.3977	4	.5091	1.2550	.4682	4	21											
22		1.3175	.2057			1.3175	.2762			1.3175	.3298			1.3175	.3964			1.3175	.4669			1.3175	.4669	1.3175	.4669	1.3175	.4669	1.3175	.4669	1.3175	.4669	22
23		1.3800	.2044			1.3800	.2749			1.3800	.3428			1.3800	.3951			1.3800	.4656			1.3800	.4656	1.3800	.4656	1.3800	.4656	1.3800	.4656	1.3800	.4656	23
24		1.4425	.2031			1.4425	.2736			1.4425	.3415			1.4425	.3938			1.4425	.4643			1.4425	.4643	1.4425	.4643	1.4425	.4643	1.4425	.4643	1.4425	.4643	24
25						1.5050	.2723			1.5050	.3402			1.5050	.4081			1.5050	.4630			1.5050	.4630	1.5050	.4630	1.5050	.4630	1.5050	.4630	1.5050	.4630	25
26						1.5675	.2710			1.5675	.3389			1.5675	.4068			1.5675	.4617			1.5675	.4617	1.5675	.4617	1.5675	.4617	1.5675	.4617	1.5675	.4617	26
27						1.6300	.2697			1.6300	.3376			1.6300	.4055			1.6300	.4604			1.6300	.4604	1.6300	.4604	1.6300	.4604	1.6300	.4604	1.6300	.4604	27
28						1.6925	.2684			1.6925	.3363			1.6925	.4042			1.6925	.4591			1.6925	.4591	1.6925	.4591	1.6925	.4591	1.6925	.4591	1.6925	.4591	28
29						1.7550	.2671			1.7550	.3350			1.7550	.4029			1.7550	.4760			1.7550	.4760	1.7550	.4760	1.7550	.4760	1.7550	.4760	1.7550	.4760	29
30						1.8175	.2658			1.8175	.3337			1.8175	.3990			1.8175	.4747			1.8175	.4747	1.8175	.4747	1.8175	.4747	1.8175	.4747	1.8175	.4747	30
31																						31										
32																						32										
33																						33										
34																						34										
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47																						47										
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49																						49										

HSTL2946

DRAWING NUMBER

HSTL2946

3 OF 6

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	GROUP 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		1.0050	.5436			1.0050	.6065							
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	.5609	1.5050	.5332	3	.6542	1.5050	.6273	3						
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		2.0050	.5436			2.0050	.6169							
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							

SECOND		5/8"									
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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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			5.4425	.7978	
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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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	1.2092	4.1925	1.1283	4
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	1.2613	6.1925	1.1387	5
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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