**2018 DAILY INFORMATION BULLETIN -** http://www.cmegroup.com/dailybulletin *CME Group, Inc.* 



20 South Wacker Drive, Chicago, Illinois 60606-7499. Customer Service: (312) 930-1000

## **FINAL**

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PG49 BULLETI INDIVIDUAL CONTR OPEN INTEREST (B ADJUSTMENTS, OPT HIGH PRICE *=NEW (CABINET TRANSAC PRODUCTS ELIGIBL	ACT PRICE DOTH BEFORE IONS EXCERC CONTRACT L TION) - 1/2	AND AFTER TISES, POSITOW PRICE RETICK VALUE	THÉ LAST TIONS IN =RECORD \ E = \$12.5	DAY OF TR DELIVERY, OL OR OPN O PRODCU	RADING) MAY OR POSITI I INT. SETT IT LISTINGS EAR IN THIS	TLEMENT P BE AFFEC ONS IN A LEMENT PR REPRESEN REPORT.	TED BY: CA CASH SETTL ICE DETERM T CONTRACT	D VOLUME ASH FOR I EMENT CY INED BY S WITH I	FIGURES OCLE. E CME RU PRICE/V	S, SPREA B=BID A=, JLE 813. OLUME A	DS, PRIC ASK N=NC B=BID A	OR DAYS' ( OMINAL P=1 A=ASK N=N(	TRADING HOU CLEARED TRA POST SETTLE OMINAL P=PO	RS SESSI DES (OUT MENT SES	-TRADES), SSION #=NE EMENT. CA	VOLUME OR POSITION W CONTRACT B=
EXPIRATION: EOM S&P 500 OPT EOW1 S&P 500 OP EOW2 S&P 500 OP EOW4 S&P 500 OPT S&P 500 OPT S&P 500 FUT	T 06/01 T 06/08	JUL18 07/31 07/06 07/13 07/27	AUG18 08/31 08/03	SEP18 09/28 09/20 09/20	OCT18 10/31	NOV18 11/30	DEC18  12/20 12/20	T TRADE MAR19  03/14 03/14	06/ 06/	v119 /20						
EXPIRATION: BTC FUT EI FUT	JUN18 06/29	JUL18 07/27	AUG18 08/31	SEP18 09/28 09/21	DEC18	MAR19	JUN19	03,11								
ENY FUT EOW3 S&P 500 OP FT1 FUT FT5 FUT FTU FUT RS1 FUT	т	07/20	08/17	09/13 09/21 09/21 09/21 09/21												
RSG FUT RSV FUT	06/27	07/02		09/21 09/21	12/21											
SDI FUT TPY FUT TRI FUT				09/21 09/13 09/21	12/21	03/15	06/21									
						S&P 500	OPTIONS O	N FUTUR	ES							
JUN18 EV 100-4225 EV1 100-4200 EV2 100-4200 EV4 100-4225 OS 100-4200	JUL18 100-4225 100-4225 100-4225 100-4225	AUG18 100-4225 100-4225	SEP1 100-	8 c 4225 1	OPTIONS S OCT18 .00-4225	ERIES (CA NOV18 100-4225	DEC18		TRADII MAR19 1150-42	נ	, JUN 2 JN19 225-4225					
JUN18 EV3 S1A S4C 100-4225	JUL18 100-4225 100-4225	AUG18 100-4225	ост1 100-													
						S&I	P 500 FUTI			DTU		LOBEY®	ODE		CONTR	ACT
OPEN RA S&P 500 FUIT SEP18 2732.30 @ DEC18		HIGH 2747.80 2750.00B	LOI 2703 2708	.00	CLOSING RA 2704.30A 2708.00A	NGE	2704.90 2708.10	) - 2	360 390			LOBEX® OLUME 135  135	OPE INTERES 55482 + 300 55782 +	Т	HIGH 381.40B	2076.00A 1781.70A
E-MINI S&P 500	FIXING PRI	CE (ESF):	Sep19 2	702.24		1:00 EV	ud cen co	0.641.6								
						WK EV-	w1 S&p 50	T.PRICE			EXER	VOLUME		OPEN	CONTR	ACT
STRIKE OPEN RA EOW1 S&P 500 C	NGE	HIGH	Н	LOW	CLOSING I	RANGE		T.CHGE.		DELTA	CISES	TRADES CLEARED	INTE		HIGH	LOW
	&P 500 C	(FU	TURES SE	TT00`	15.60N			.30-	630	.260			50	UNCH		
2785 2800			-		2.60N 1.95N 0.85N		1	40- 05+ 40-	120 NEW 45	.055 .043 .017		2 1	50 2 + 151 +			
2805 2810 2820			-		0.65N 0.50N			.30-	35 NEW	.013		1 4 	137 + 4 +	4		
2820 2825 2830			-		0.35N 0.25N 0.25N			.15- .10- .05-	20 15 20	.006 .004 .002			50 298 136	UNCH UNCH UNCH		
2835 2840			-		0.20N 0.15N			.05- .05-	15 10	.001 .001			256 890	UNCH UNCH	.15	.15
2845 2855 2860 2930 3000			- - -		0.15N 0.10N 0.10N 0.05N		CAB CAB CAB CAB CAB			.000 .000 .000			70 50 60 60 30	UNCH UNCH UNCH UNCH UNCH		.15A 
TOTAL						WK EV-	w2 S&p 50	0 CALLS				8	2294 +	- 8		
STRIKE OPEN RA	NGE	HIG	н	LOW	CLOSING I		SET	T.PRICE T.CHGE.		DELTA	EXER CISES	VOLUME TRADES CLEARED	INTE	OPEN REST	CONTR HIGH	ACT LOW
JUL18 EOW2 Se 2810	&P 500 C		TURES SE		1.75N			.10+	NEW	.039		4	4 +			
2830 2840 2845			-		0.75N 0.55N 0.45N			.45- .30- .25-	30 25 20	.017 .012 .010			137 136 51	UNCH UNCH UNCH	7.50	7.50
2850 2900					0.40n 0.15n			.20+ .05-	NEW 10	.008 .001		1	1 + 50	1 UNCH		
3120 3125 TOTAL			-				CAB CAB					 5	30 30 439 +	UNCH UNCH 5		
						WK EV-	w4 S&P 50					VOLUME				
STRIKE OPEN RA EOW4 S&P 500 C JUL18 EOW4 S	.NGE &p 500 C	HIGH (FU	H TURES SE	LOW	CLOSING (	RANGE	& P	T.PRICE T.CHGE.		DELTA	EXER CISES	VOLUME TRADES CLEARED	INTE	OPEN REST	CONTR HIGH	ACT LOW
2790 2850 TOTAL			-		9.70N 1.35N	S&		00- 00+	270 NEW	.157		8 8	137 8 + 145 +			
STRIKE OPEN RA	NGE	HIGH	н	LOW	CLOSING	RANGE		T.PRICE T.CHGE.		DELTA	EXER CISES	VOLUME TRADES CLEARED	INTE	OPEN REST	CONTR	ACT LOW
S&P 500 CALL SEP18 S&P 500 2300	O CALL	(FU	TURES SE	TT. 2704	437.30N				2140	.921			1	UNCH		
2320 2525			-		418.10N 228.80N		397 211	.00-	2110 1750	.914 .786			1 60	UNCH UNCH		
2550 2570 2600			-		206.90N 189.70N 164.80N		173	.70-	1670 1600 1530	.760 .737 .698			60 2 4	UNCH UNCH UNCH	 141.00	 141.00
2660 2670			-		117.40N 110.00N		104 97	.30-	1310 1270	.603 .584			13 1	UNCH UNCH		
2680 2690 2695			-		102.70N 95.60N 92.10N		83	.80-	1220 1180 1170	.565 .545 .534			10 1 2	UNCH UNCH UNCH		

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PG49	BULLETIN #123@			S&P 50	00 CALL OPTIO					We	d, Jun	27, 201	.8 PG49
2700 2710				88.60N 81.70N	77.10- 70.60-	1150 1110	.524 .502			285 2	UNCH UNCH	99.50	83.00
2715 2725				78.30N 71.70N	67.50- 61.50-	1080 1020	.490 .467			1 75	UNCH UNCH		
2730 2735				68.40N 65.20N	58.60- 55.80-	980 940	.455			1 2	UNCH		
2740 2745				62.00N 59.00N	53.00- 50.20-	900 880	.431 .419			2 1	UNCH UNCH	 	
2750 2755				55.90N 53.00N	47.50- 44.90-	840 810	.406		50 	490 ±	UNCH	71.80B 	
2760 2765				50.20N 47.50N	42.30- 39.90-	790 760	.380			2 2	UNCH		
2770 2775 2780				44.80N 42.30N	37.50- 35.30-	730 700 670	.354			28 176 103	UNCH	 66.00	 66.00
2780 2785 2800				39.80N 37.40N 30.50N	33.10- 30.90- 24.90-	650 560	.328 .315 .275		100	103 1 363 +	UNCH UNCH 100	73.50	41.50
2805 2820				28.30N 22.50N	23.00- 18.00-	530 450	.261			1 7	UNCH	43.00	43.00
2825 2830				20.70N 19.10N	16.60- 15.20-	410 390	.209			153 143	UNCH	73.00	19.00
2840 2845				16.10N 14.70N	12.80- 11.60-	330 310	.174			1 2	UNCH		
2850 2855				13.40N 12.20N	10.60- 9.60-	280 260	.152			647 6	UNCH	53.00	13.10
2860 2875				11.10N 8.30N	8.70- 6.50-	240 180	.131			2 55	UNCH		
2880 2885				7.50N 6.70N	5.90- 5.40-	160 130	.097			2	UNCH		
2890 2900				6.10N 5.00N	4.90- 4.05-	120 95	.083			5 296	UNCH	40.30 13.10	40.30 13.10
2910 2920				4.10N 3.40N	3.35- 2.75-	75 65	.061			145	UNCH	93.40	65.00
2925 2930				3.10N 2.85N	2.50- 2.30-	60 55	.047			1006 2	UNCH UNCH	6.50	5.30
2935 2940				2.60N 2.35N	2.10- 1.95-	50 40	.040			1 251	UNCH UNCH		
2950 2970				2.00N 1.45N	1.65- 1.20-	35 25 25	.032			1865 1	UNCH UNCH	13.00	13.00
2975 2990				1.35N 1.10N	1.10- .90-	25 20	.022			1200 501	UNCH UNCH		
3000 3030				0.95N 0.65N	.75- .55-	20 10	.015 .011			2573 2000	UNCH UNCH	52.70	2.10
3040 3060				0.55N 0.45N	.45- .35-	10 10	.009 .007			2000	UNCH UNCH		
3070 3090				0.40n 0.35n	.35- .25-	5 10	.007			1 4	UNCH UNCH	31.80	31.80
3100 3120				0.30n 0.25n	.25- .20-	5 5	.005			55 2	UNCH UNCH	5.30	.80
3140 3190				0.20N 0.15N	.15- .05-	5 10	.003 .001			2 1	UNCH UNCH		
3200 TOTAL				0.10N	.05-	5	.000		150	219 14847 -	UNCH - 200	.45	.45
DEC18 2570		(FUTURES		10 - 2390 ) 224.20N	209.30-	1490	.686			2	UNCH	221.00	221.00
2600 2700				200.90N 128.90N	186.70- 117.30-	1420 1160	.656 .532			1 2	UNCH		
2715 2725				118.90N 112.40N	107.90- 101.80-	1100 1060	.510 .495			1 10	UNCH		
2735 2745				106.00N 99.70N	95.80- 90.00-	1020 970	.480 .464			1 2	UNCH	94.60	94.60
2750 2775				96.70N 82.10N	87.20- 73.40-	950 870	.457 .416			11 40	UNCH		
2785 2795				76.50N 71.20N	68.20- 63.10-	830 810	.399			1 2	UNCH	69.30 69.00	69.30 69.00
2800 2825				68.50N 56.00N	60.70- 49.20-	780 680	.373			126 24	UNCH		
2840 2845				49.10N 46.90N	43.00- 41.00-	610 590	.303			1 1 59	UNCH	45.00	45.00
2870 2875				44.80N 36.90N 35.10N	39.10- 32.10- 30.50-	570 480 460	.285 .251 .242		 	2	UNCH UNCH UNCH		
2890 2900				30.00N 26.90N	25.90- 23.10-	410 380	.217			34 223 -	UNCH 8	122.50 74.00	82.70 74.00
2910 2915				24.00N 22.70N	20.60- 19.40-	340 330	.185 .177			8 1	UNCH UNCH	111.30 22.50	111.30 22.50
2920 2930				21.40N 19.00N	18.30- 16.10-	310 290	.170 .155			21 43	UNCH		
2940 2950				16.80N 14.80N	14.20- 12.50-	260 230	.141			126 8	UNCH	52.50 31.00	27.20 24.80
2960 2970				13.00N 11.50N	11.00- 9.70-	200 180	.116			26 14	UNCH	68.00 63.00	54.00 63.00
2980 2990				10.10N 8.80N	8.60- 7.60-	150 120	.096			103 11	UNCH	60.50	8.70
3000 3010				7.70N 6.80N	6.70- 5.90-	100 90	.078			296 1	UNCH	71.20 9.20в	8.50
3020 3025				6.00N 5.60N	5.20- 4.90-	80 70	.063			41 1	UNCH UNCH	23.00	23.00
3050 3060				4.10n 3.65n	3.55- 3.10-	55 55	.046 .041			67 10	UNCH UNCH	10.80	10.80
3075 3100				3.05N 2.35N	2.60- 1.95-	45 40	.035 .027			1 230	UNCH UNCH		
3110 3140				2.10N 1.55N	1.75- 1.30-	35 25 25	.024 .018			3 2	UNCH UNCH		
3150 3170				1.45N 1.20N	1.20- 1.00-	20	.017 .014			65 4	UNCH UNCH		
3175 3180				1.15N 1.10N	. 95 - . 90 -	20 20	.014 .013			1 1	UNCH UNCH		
3200 3225				0.90N 0.75N	.80- .65-	10 10	.011			2 1	UNCH		
3230 3270				0.70N 0.55N	.60- .45-	10 10	.009			3 1	UNCH		
3290 3300				0.50N 0.45N	.40- .35-	10 10	.006			1 25	UNCH	8.70	5.00
3325 TOTAL MAR19		(FUTURES		0.40N	.30-	10	.004		16	1 1664 ·	UNCH 8		
2960 TOTAL			SETT00)	30.50N	26.90-	360	.194			10 10	UNCH	49.30	49.30
FOM S&F JUN18	P 500 C EOM S&P 500 C	(FUTURES	SETT00)						U				
1000 2000				1728.10N 728.30N	1704.60- 704.80-	2350 2350	1.000 1.000			10 10	UNCH UNCH		
2450 2700				278.60N 34.70N	255.10- 18.20-	2350 1650	.998 .563		275	1 165 -	UNCH 110	309.00	309.00
2725 2730				16.20N 13.20N	5.90- 4.30+	1030 NEW	.237 .178		100	1 100 +			
2740 2745	2.10	2.10	*2.10	8.00N 2.10	2.05- 1.35-	595 455	.085 .054		375	190 - 3	UNCH	6.00	2.10
2750 2760	9.20 2.20	#9.20 #2.20	5.40 *2.20	5.40 2.20	.85- .35+	335 NEW	.032 .011		2 1	200 1 +		9.20 2.20	5.00 2.20
2775 2780	0.10	#.10	CAB	0.55N 	.05- .05-	50 30	.000		309	223 609 +		21.70 .10	1.15
2785 2790	0.50	.50 	CAB 	0.20N	.05- .05-	20 15	.000		210	206 + 258	UNCH	.55 5.80	.55 .35
2795 2800		CAB	CAB	0.15N 	CAB CAB		.000		500	134 905 +		2.55	2.55
2805 2810	0.10	CAB .10	CAB .10	0.10	CAB CAB		.000		1600 37	1600 + 863 -	37	.10	.10
2815 2820		CAB 	CAB 	0.05N	CAB CAB				400	1050 +	UNCH	6.50	.10A 
2825 2830				0.05N 	CAB CAB					898 169 200	UNCH	7.90 .40	.50 .40
2835 2840 2850					CAB CAB CAB					495 694	UNCH UNCH UNCH	3.15 2.10	.20
2850 2860 2870					CAB CAB					74 100	UNCH UNCH UNCH	.10 .10 .10	.40 .10 .10
2875 2880					CAB CAB					261 24	UNCH UNCH	.20	.20
2890 2895					CAB CAB					125	UNCH	4.10	3.95
2900					CAB					1369	UNCH	1.30	.35

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DC 40	DULLETTN #1220			FIN		NIC .				Mod	1 7.00	27 201	9 DC 40
PG49	BULLETIN #123@			S&P 50	OO CALL OPTIC	INS				Wed	i, Jun	27, 201	8 PG49
2910 2915					CAB CAB					453 18	UNCH UNCH		.10A 
2920 2925					CAB CAB					500 600	UNCH UNCH	.25	.25
2945 2950					CAB CAB					30 813	UNCH UNCH	.35 .15	.35 .15
3000 3050					CAB CAB					1391 200	UNCH UNCH	.40	.20
TOTAL		(FUTURES S	ETT00)						3809	14947 +	3169		
JUL18 2725 2750				43.00N 28.10N	33.80- 21.40-	920 670	.432			49 49	UNCH UNCH		
2790 2800				11.10N 8.30N	8.10- 6.10-	300 220	.170			40 25	UNCH		
2815				5.20N	3.80-	140	.095			40	UNCH		
2825 2830				3.75N 3.15N	2.75- 2.35-	100 80	.073 .064			1 100	UNCH UNCH	4.40	2.50
2845 2850				1.95N 1.70N	1.45- 1.25-	50 45	.042 .037			65 752	UNCH UNCH	2.00 3.50	2.00 1.65
2855 2860				1.45N 1.25N	1.05- .90-	40 35	.031 .027			450 400	UNCH UNCH	4.00 4.05	4.00 1.40
2865 2870				1.10N 0.95N	.80- .70-	30 25	.024			147 30	UNCH	7.10	4.00
2875 2880				0.85N 0.75N	.60-	25 20	.019			336 -	6 UNCH	4.15 4.00	1.00 2.85
2890				0.65N	.55- .45-	20	.014			368 1	UNCH		
2895 2900				0.60N 0.55N	.40- .35-	20 20	.012 .011			10 99	UNCH	2.45	2.45
2910 2915				0.45N 0.40N	.30- .25-	15 15	.009 .008			4 12	UNCH UNCH	3.00B	
2945 TOTAL				0.25N	.15-	10	.004		0	3 2981 -	UNCH 6		
AUG18 100		(FUTURES S	ETT00)	2619.30N	2595.90-	2340	1.000			45	UNCH		
500 2100				2220.70N 629.70N	2197.30- 606.90-	2340 2280	.999 .973			8 45	UNCH UNCH	2202.50	2202.50
2500 2825				244.90N 13.30N	225.80- 10.20-	1910 310	.833 .163			8 345 -	UNCH 5		
2850	4.00		*3.60	7.70N	5.90-	180	.108		546	1250	UNCH		
2870 2875	4.20	#4.00 #4.20	*4.00	3.60 4.00	3.65+ 3.25-	NEW 120	.073		500	546 + 750 +	546 500	4.00 4.20	3.60 4.00
2880 2885				3.95N 3.55N	2.90- 2.60-	105 95	.060 .055			45 500	UNCH	4.20	4.20
2890 2920				3.20N 1.70N	2.35+ 1.25+	NEW NEW	.050 .029		4 3	4 + 3 +	4 3		
2925 2940				1.55N 1.20N	1.15+ .85+	NEW NEW	.026 .020		3 3	3 + 3 +	3 3		
TOTAL		(FUTURES S	ETT00)						1059	3555 +	1054		
SEP18 100 500				2618.80N 2220.80N	2595.20- 2197.20-	2360 2360	1.000 .999			10 50	UNCH UNCH	2682.00	2682.00
2100 2500				634.30N 256.50N	611.80- 238.70-	2250 1780	. 962 . 802			10 50	UNCH	700.00	700.00
TOTAL				230.30N	230.70-	1780	.002		0	120	UNCH		
OCT18 500		(FUTURES S		2216.70N	2193.10-	2360	. 999			10	UNCH	2202.10	2202.10
2500 2775				266.40N 62.70N	249.70- 55.10-	1670 760	.775 .390			10 100	UNCH UNCH		
TOTAL NOV18 100		(FUTURES S	ETT00)						0	120			
100 2100				2609.40N 638.00N	2585.80- 616.60-	2360 2140	1.000 .938			8 8	UNCH UNCH		
TOTAL									0	16			
				ADDII	TIONAL S&P CALL			EXER	VOLUME		PEN	CONTR	
	CE OPEN RANGE	HIGH	LOW	CLOSING RANGE	SETT.PRIC & PT.CHGE		DELTA	CISES	TRADES CLEARED	INTER		CONTR/ HIGH	LOW
EOW3 S&I	P 500 C EOW3 S&P 500 C	(FUTURES S	ETT00)										
JUL18				262E 10N	2601 70	22 40	1 000			161	LINCH		
100 1000				2625.10N 1726.30N	2601.70- 1702.80-	23.50	1.000 1.000			464 15	UNCH	1707.50	
100 1000 1025 2100	  			1726.30N 1701.30N 628.40N	1702.80- 1677.80- 605.10-	23.50 23.50 23.30	1.000 1.000 .991			15 7 464	UNCH UNCH UNCH	1707.50 	1707.50 
100 1000 1025 2100 2650 2700	  			1726.30N 1701.30N 628.40N 94.10N 54.20N	1702.80- 1677.80- 605.10- 78.00- 42.30-	23.50 23.50 23.30 16.10 11.90	1.000 1.000 .991 .695 .527			15 7 464 300 226	UNCH UNCH UNCH UNCH UNCH	1707.50  	1707.50  
100 1000 1025 2100 2650 2700 2720 2725	    			1726.30N 1701.30N 628.40N 94.10N 54.20N 40.10N 36.80N	1702.80- 1677.80- 605.10- 78.00- 42.30- 30.30- 27.60-	23.50 23.50 23.30 16.10 11.90 9.80 9.20	1.000 1.000 .991 .695 .527 .441			15 7 464 300 226 16 51	UNCH UNCH UNCH UNCH UNCH UNCH UNCH	1707.50    	1707.50    
100 1000 1025 2100 2650 2700 2720 2725 2740 2750	    			1726.30N 1701.30N 628.40N 94.10N 54.20N 40.10N 36.80N 27.70N 22.20N	1702.80- 1677.80- 605.10- 78.00- 42.30- 30.30- 27.60- 20.30- 16.10-	23.50 23.50 23.30 16.10 11.90 9.80 9.20 7.40 6.10	1.000 1.000 .991 .695 .527 .441 .418 .347			15 7 464 300 226 16 51 450 181	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	1707.50     13.00	1707.50     13.00
100 1000 1025 2100 2650 2700 2720 2725 2740 2750 2770 2775	    			1726.30N 1701.30N 628.40N 94.10N 54.20N 40.10N 36.80N 27.70N	1702.80- 1677.80- 605.10- 78.00- 42.30- 30.30- 27.60- 20.30- 16.10- 9.40- 8.10-	23.50 23.50 23.30 16.10 11.90 9.80 9.20 7.40 6.10 4.00 3.50	1.000 1.000 .991 .695 .527 .441 .418 .347 .299 .207			15 7 464 300 226 16 51 450 181 101 40	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	1707.50    	1707.50    
100 1000 1025 2100 2650 2700 2720 2725 2740 2750 2770	     			1726 - 30N 1701 - 30N 628 - 40N 94 - 10N 54 - 20N 40 - 10N 36 - 80N 27 - 70N 22 - 20N 13 - 40N	1702 80- 1677 80- 605 10- 78 00- 42 30- 30 30- 27 60- 16 10- 9 40- 8 10- 7 00- 6 00-	23.50 23.50 23.30 16.10 11.90 9.80 9.20 7.40 6.10 4.00	1.000 1.000 .991 .695 .527 .441 .418 .347 .299 .207 .185 .166			15 7 464 300 226 16 51 450 181 101 40 1000 50	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	1707.50     13.00 37.50	1707.50 13.00 35.50 22.80 30.00A
100 1000 1025 2100 2650 2700 2725 2726 2750 2770 2775 2780 2780 2790	      			1726.30N 1701.30N 628.40N 94.10N 54.20N 40.10N 36.80N 27.70N 22.20N 13.40N 11.60N 9.90N	1702.80- 1677.80- 605.10- 78.00- 42.30- 30.30- 27.60- 20.30- 16.10- 9.40- 8.10- 7.00- 6.00- 5.00-	23.50 23.50 23.30 16.10 11.90 9.80 9.20 7.40 6.10 4.00 3.50 2.90	1.000 1.000 .991 .695 .527 .441 .418 .347 .299 .207 .185 .166 .147			15 7 464 300 226 16 51 450 181 101 40 1000	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	1707.50 13.00 37.50 27.00	1707.50 13.00 35.50 22.80 30.00A 27.50A
100 1000 1025 2100 2650 27700 2725 2740 2750 2770 2775 2780 2785 2790 2795 2800				1726.30N 1701.30N 628.40N 94.10N 54.20N 40.10N 36.80N 27.70N 22.20N 13.40N 11.60N 9.90N 8.40N 7.10N 6.00N 3.50	1702 : 80- 1677 : 80- 605 : 10- 78 : 00- 42 : 30- 30 : 30- 27 : 60- 20 : 30- 16 : 10- 9 : 40- 8 : 10- 7 : 00- 6 : 00- 4 : 20- 3 : 45-	23.50 23.50 23.30 16.10 11.90 9.80 9.20 7.40 6.10 4.00 3.50 2.90 2.40 2.10 1.80	1.000 1.000 .991 .695 .527 .441 .418 .347 .299 .207 .185 .166 .147 .128 .112			15 7 464 300 226 16 51 450 181 101 40 1000 50 80	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	1707.50 13.00 37.50 27.00	1707.50 13.00 35.50 22.80 30.00A
1000 1000 1005 2100 2650 2700 2720 2725 2740 2750 2775 2780 2785 2790 2795 2800 2805 2811	        3.50	        3.50	      	1726.30N 1701.30N 628.40N 94.10N 54.20N 40.10N 36.80N 27.70N 22.20N 13.40N 11.60N 9.90N 8.40N 7.10N 6.00N 3.50 4.15N	1702.80- 1677.80- 605.10- 78.00- 42.30- 30.30- 27.60- 20.30- 16.10- 9.40- 8.10- 7.00- 6.00- 5.00- 4.20- 3.45- 2.90- 2.40-	23.50 23.50 23.30 16.10 11.90 9.80 9.20 7.40 6.10 4.00 3.50 2.40 2.40 1.55 1.25	1.000 1.000 .991 .695 .527 .441 .418 .347 .299 .207 .185 .166 .147 .128 .112 .096 .083		       100	15 7 464 300 226 16 51 450 181 101 40 1000 80 30 380 +	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	1707.50 13.00 37.50 27.00 12.40	1707.50 13.00 35.50 22.80 30.00A 27.50A 25.00A
1000 1000 1005 2100 2650 2700 2720 2725 2740 2750 2770 2775 2780 2785 2790 2795 2800 2805 2810 2815 2820		3.50	*3.50	1726.30N 1701.30N 628.40N 94.10N 54.20N 40.10N 36.80N 27.70N 13.40N 11.60N 9.90N 8.40N 7.10N 6.00N 3.50 4.15N 3.40N 2.80N	1702.80- 1677.80- 605.10- 78.00- 42.30- 30.30- 27.60- 20.30- 16.10- 9.40- 8.10- 7.00- 6.00- 5.00- 4.20- 3.45- 2.90- 2.40- 2.00- 1.65-	23.50 23.50 23.30 16.10 9.80 9.20 7.40 6.10 4.00 2.90 2.10 1.80 1.55 1.00 0.65	1.000 1.000 .991 .695 .527 .441 .418 .347 .299 .207 .185 .166 .147 .128 .096 .083 .071 .061		      100	15 7 464 300 226 16 51 450 181 101 40 1000 50 80 30 380 + 1 296 50 566 -	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	1707.50 13.00 37.50 27.00 12.40 3.95	1707.50 13.00 35.50 22.80 30.00A 27.50A 27.50A 3.50 3.95
1000 1000 1005 2100 2650 2700 2720 2725 2740 2750 2775 2785 2780 2795 2800 2805 2810 2815 2820 2825		3.50	*3.50	1726.30N 1701.30N 628.40N 94.10N 54.20N 40.10N 36.80N 27.70N 22.20N 13.40N 11.60N 9.90N 8.40N 7.10N 6.00N 3.50 4.15N 3.40N 2.30N 1.95N	1702.80- 1677.80- 605.10- 78.00- 42.30- 30.30- 27.60- 20.30- 16.10- 9.40- 7.00- 6.00- 5.00- 4.20- 3.45- 2.90- 2.40- 2.00- 1.65- 1.35- 1.15-	23.50 23.50 23.30 16.10 9.80 9.20 9.20 4.00 3.50 2.40 2.10 0.65 0.65 0.65	1.000 1.000 .991 .695 .527 .441 .418 .347 .299 .207 .185 .166 .147 .128 .112 .096 .083 .071 .051 .043 .037		100	15 7 464 300 226 16 51 450 181 101 40 1000 50 80 30 380 + 1 296 50 566 - 1692 1081 -	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	1707.50 13.00 37.50 27.00 12.40 3.95 17.80 4.05	1707.50 13.00 35.50 22.80 30.00A 27.50A 25.00A 3.50 3.95 4.05
1000 1000 1025 2100 2650 2700 2725 2740 2750 2775 2780 2775 2780 2785 2790 2805 2815 2820 2825 2830 2835 2840	3.50	3.50	*3.50	1726.30N 1701.30N 628.40N 94.10N 54.20N 40.10N 36.80N 27.70N 22.20N 13.40N 11.60N 9.90N 8.40N 7.10N 6.00N 3.50 4.15N 3.40N 2.80N 2.80N 2.30N 1.95N	1702.80- 1677.80- 605.10- 78.00- 42.30- 30.30- 27.60- 20.30- 16.10- 7.00- 6.00- 5.00- 4.20- 3.45- 2.90- 2.40- 2.00- 1.65- 1.35- 1.15-	23.50 23.30 16.10 9.80 9.20 7.40 6.10 2.90 2.40 2.40 1.55 1.00 0.65 0.65 0.45 0.45	1.000 1.000 .991 .695 .527 .4418 .347 .299 .207 .185 .166 .147 .128 .112 .083 .071 .061 .051 .043 .037		100	15 7 464 300 226 16 51 450 181 101 40 1000 50 80 30 380 + 1296 566 - 1692 1081 - 125 563 -	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	1707.50 13.00 37.50 27.00 12.40 3.95 17.80 4.05 4.00 6.00	1707.50 13.00 35.50 22.80 30.00A 27.50A 25.00A 3.50 3.95 4.05 1.70 4.00
1000 1000 1025 2100 2650 2700 2720 2725 2740 2775 2780 2775 2785 2790 2855 2800 2805 2815 2820 2825 2830 2825 2830 2840 2845 2850		3.50	*3.50	1726.30N 1701.30N 628.40N 94.10N 54.20N 40.10N 36.80N 27.70N 22.20N 13.40N 11.60N 9.90N 8.40N 7.10N 6.00N 3.50 4.15N 3.40N 2.30N 1.95N 1.60N 1.35N 1.15N 1.15N	1702.80- 1677.80- 605.10- 78.00- 42.30- 30.30- 27.60- 20.30- 16.10- 7.00- 6.00- 5.00- 4.20- 3.45- 2.90- 2.40- 2.00- 1.65- 1.35- 9.5- 80- 70- 6.00-	23,50 23,30 16,10 9,80 9,80 7,40 6,10 4,00 3,50 2,40 1,80 1,25 1,00 0,65 0,45 0,45 0,25	1.000 1.000 .991 .695 .527 .4418 .347 .299 .207 .185 .166 .147 .128 .112 .083 .071 .061 .043 .037 .037 .031		100	15 7 464 300 226 16 51 450 181 101 40 1000 50 80 30 380 + 1 296 50 566 - 1692 1081 - 125 1081 - 1090 1081 - 1081 -	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	1707.50 13.00 37.50 27.00 12.40 3.95 17.80 4.05	1707.50 13.00 35.50 22.80 30.00A 27.50A 27.50A 3.50 3.95 4.05
1000 1000 1025 2100 2650 2700 2720 2725 2740 2775 2780 2775 2785 2790 2795 2800 2805 2810 2815 2820 2825 2830 2835 2840 2845 2840 2845	3.50   3.50 	3.50 	*3.50 *1.00	1726.30N 1701.30N 628.40N 94.10N 54.20N 40.10N 36.80N 27.70N 22.20N 13.40N 11.60N 9.90N 8.40N 7.10N 6.00N 3.50 4.15N 3.40N 2.30N 1.15N 1.95N 1.60N 1.35N 1.15N 1.70N 6.70N	1702.80- 1677.80- 605.10- 78.00- 42.30- 30.30- 27.60- 20.30- 16.10- 7.00- 5.00- 4.20- 3.45- 2.90- 2.40- 1.65- 1.35- 1.15- 95- 80- 70- 60- 50-	23,50 23,30 16,10 9,80 9,80 7,40 6,10 4,00 3,50 2,10 1,80 0,65 1,25 1,00 0,45 0,45 0,25 0,20	1.000 1.000 1.000 1.991 695 527 4418 347 299 207 185 166 147 128 112 096 083 071 1061 051 043 037 037 031 027 023 020 017		100	15 7 464 300 226 16 51 450 181 101 40 1000 50 80 30 380 + 1296 566 - 1692 1081 - 125 563 - 109 2607 + 36 335	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	1707.50 13.00 37.50 27.00 12.40 17.80 4.05 4.05 4.00 6.00 3.85 12.20 4.35	1707.50 13.00 35.50 22.80 30.00A 27.50A 25.00A 3.50 3.95 4.05 1.70 4.10 3.85 1.00 3.85
1000 1005 1000 1025 2100 2650 2700 2720 2725 2740 2755 2780 2775 2780 2785 2790 2795 2800 2805 2810 2815 2820 2825 2835 2840 2845 2850 2845 2850 2845 2850 2845 2850 2855 2860 2875	3.50  1.00	3.50	*3.50	1726.30N 1701.30N 1628.40N 94.10N 54.20N 40.10N 36.80N 27.70N 13.40N 11.60N 9.90N 8.40N 7.10N 6.00N 3.50 4.15N 3.40N 2.80N 2.30N 1.95N 1.15N 1.15N 1.15N 1.00 7.70N 6.50N 1.35N	1702.80- 1677.80- 605.10- 78.00- 42.30- 30.30- 27.60- 20.30- 16.10- 7.00- 6.00- 5.00- 4.20- 3.45- 2.90- 2.40- 1.65- 1.35- 1.15- 95- 80- 70- 60- 50- 35- 35-	23.50 23.50 23.30 16.10 9.80 9.20 7.40 6.10 2.40 2.10 0.85 0.65 0.65 0.45 0.25 0.25 0.25 0.25 0.25 0.25	1.000 1.000 1.000 1.000 1.001 1.695 1.527 1.441 1.418 1.347 1.299 1.007 1.85 1.66 1.47 1.12 1.096 1.083 1.071 1.061 1.023 1.023 1.020 1.015		100	15 7 464 300 226 16 16 181 101 40 1000 50 80 30 380 + 1 296 506 1692 1081 - 125 563 - 109 2607 + 335 240 - 1175 -	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	1707.50 13.00 37.50 27.00 12.40 3.95 17.80 4.05 4.05 4.00 6.00 3.85 12.20 4.35 4.00 3.90	1707.50 13.00 35.50 22.80 30.00A 27.50A 25.00A 3.50 3.95 4.05 1.70 4.10 3.85 1.00 3.85 3.25 2.90A
1000 1005 1000 1025 2100 2650 27700 27720 27725 2780 27750 27775 2780 27785 2780 2790 2800 2810 2815 2820 2825 2830 2825 2840 2845 2850 2845 2850 2845 2850 2860 28770 2875 2880	3.50  1.00	3.50 	*3.50	1726.30N 1701.30N 1701.30N 94.10N 94.10N 54.20N 40.10N 36.80N 27.70N 13.40N 11.60N 9.90N 8.40N 7.10N 6.00N 3.50 4.15N 3.40N 2.80N 1.95N 1.15N 1.15N 1.95N 1.00 6.5N 5.00N 6.5N 5.00N 6.45N 6.40N 6.40N	1702.80- 1677.80- 605.10- 78.00- 42.30- 30.30- 27.60- 20.30- 16.10- 9.40- 8.10- 7.00- 6.00- 5.00- 3.45- 2.90- 2.40- 2.00- 1.65- 1.35- 1.15- 95- 8070- 60- 5045- 330- 25-	23.50 23.50 23.30 16.10 9.80 9.20 9.20 6.10 2.40 2.10 0.85 0.65 0.45 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.2	1.000 1.000 1.000 1.000 1.001 1.695 1.527 1.441 1.418 1.47 1.299 1.007 1.85 1.66 1.47 1.12 1.096 1.096 1.051 1.043 1.037 1.031 1.027 1.023 1.020 1.015 1.012 1.010 1.008 1.008		100	15 7 464 300 226 16 51 450 181 101 40 1000 50 80 30 380 + 1 296 50 566 - 1692 1081 - 125 563 - 109 2607 + 335 240 - 1175 - 196 337 -	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	1707.50 13.00 37.50 27.00 12.40 12.40 12.40 12.40 12.40 12.40 12.40 12.40 12.40 12.40 12.40 12.40 12.40 12.40 13.95 17.80 4.05 4.00 6.00 3.85 12.20 4.35 4.00 3.90 3.70 4.05	1707.50 13.00 35.50 22.80 30.00A 27.50A 25.00A 3.50 3.95 4.05 1.70 4.00 4.10 3.85 1.00 3.85 1.00 3.85 1.00 3.85 3.25 2.90A
1000 1000 1005 2100 2650 2700 2720 2725 2740 2750 2775 2780 2775 2785 2780 2790 2815 2820 2825 2835 2830 2835 2845 2850 2855 2860 2855 2860 2875 28860 2875 28870 2875 28870 28875 28890 2900	3.50 	3.50 	*3.50 *1.00 *1.20	1726.30N 1701.30N 1628.40N 94.10N 54.20N 40.10N 36.80N 27.70N 13.40N 13.40N 11.60N 9.90N 8.40N 7.10N 6.00N 3.50 4.15N 3.40N 2.30N 1.95N 1.15N 1.15N 1.15N 1.95N 1.00 -65N -55N -55N -40N -45N -40N -35N -40N -35N -40N -35N	1702.80- 1677.80- 605.10- 78.00- 42.30- 30.30- 27.60- 20.30- 16.10- 9.40- 8.10- 7.00- 6.00- 5.00- 4.20- 3.45- 2.90- 2.40- 2.00- 1.65- 1.35- 1.15- 95- 8070- 605045- 35252020-	23.50 23.30 16.10 9.80 9.20 7.40 6.10 3.50 2.40 2.10 0.65 0.65 0.45 0.45 0.25 0.25 0.25 0.15 0.15 0.15 0.15	1.000 1.000 1.000 1.000 1.000 1.001 1.695 1.527 1.441 1.418 1.47 1.299 1.077 1.185 1.166 1.47 1.128 1.122 1.096 1.051 1.043 1.037 1.031 1.043 1.037 1.023 1.027 1.015 1.010 1.010 1.008 1.008 1.007 1.008		100	15 7 464 300 226 16 51 450 181 101 40 1000 50 80 30 380 + 1 296 50 566 - 1692 1081 - 125 563 - 109 2607 + 36 335 240 - 1175 - 196 37 - 1175 - 197 197 197 197 197 197 197 197	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	1707.50 13.00 37.50 27.00 12.40 3.95 17.80 4.05 4.00 6.00 3.85 12.20 4.35 4.00 3.90 3.70 4.05 4.00	1707.50 13.00 35.50 22.80 35.50 22.80 35.50 22.80 3.50 3.95 4.05 1.70 4.00 4.10 3.85 1.00
1000 1005 1000 1025 2100 2650 2700 2720 2725 2740 2750 2775 2780 2775 2780 2785 2800 2885 2890 2885 2830 2835 2845 2845 2855 2860 2855 2860 2875 2870 2875 2880 2885 2880 2885 2880 2885 2880	3.50 	3.50	*3.50	1726.30N 1701.30N 1628.40N 94.10N 54.20N 40.10N 36.80N 27.70N 22.20N 13.40N 11.60N 9.90N 8.40N 7.10N 6.00N 3.50 4.15N 3.40N 2.30N 1.95N 1.60N 1.35N 1.15N 9.90N 1.45N 1.40N 1.35N 1.00 -70N -65N -50N -45N -40N -35N -20 -30N	1702 80- 1677 80- 605 10- 78 00- 42 30- 30 30- 27 60- 20 30- 16 10- 9 .40- 8 .10- 7 .00- 4 .20- 3 .45- 2 .90- 2 .40- 2 .00- 1 .65- 1 .159580706050425050425050505050505050	23.50 23.30 16.10 9.80 9.20 7.40 6.10 2.40 2.40 2.180 1.55 1.00 0.65 0.65 0.45 0.25 0.25 0.25 0.25 0.15 0.15 0.15 0.15 0.15	1.000 1.000 1.000 1.000 1.000 1.001 1.000 1.001		100 20  100  100  4 	15 7 464 300 226 16 51 450 181 101 40 1000 50 80 30 30 4 1 296 566 692 1081 125 563 109 2607 4 335 109 2607 175 175 175 175 175 175 175 17	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	1707.50 13.00 37.50 27.00 12.40 3.95 17.80 4.05 4.00 6.00 3.85 12.20 4.35 4.05 4.05 4.00 3.97 4.05 4.00 3.97	1707.50 13.00 35.50 22.80 22.80 27.50A 27.50A 27.50A 3.50 3.95 4.05 1.70 4.00 4.10 3.85 1.00 4.10 3.85 1.00 4.10 3.85 1.00 4.10 3.85 1.00 4.10 3.85 1.00 4.10 3.85 1.00 4.10 3.85 1.00 4.10 3.85 1.00 4.10 3.85 1.00 4.10 3.85 1.00 3.60 1.45 5.00 1.85
1000 1005 1000 1025 2100 2650 2700 2720 2725 2740 2775 2780 2775 2780 2775 2800 2805 2810 2815 2820 2825 2830 2840 2845 2850 2850 2870 2875 2880 2885 2850 2870 2875 2880 2890 2900 2905 2910 2925 2935	3.50 	3.50 	*1.00 *1.00 *20 *20	1726.30N 1701.30N 628.40N 94.10N 54.20N 40.10N 36.80N 27.70N 22.20N 13.40N 11.60N 9.90N 8.40N 7.10N 6.00N 3.50 4.15N 2.80N 2.30N 1.95N 1.60N 1.35N 1.15N 1.60N 1.35N 1.60N 1.35N 1.60N 1.35N 1.45N 1.60N 1.35N 1.20N 2.30N	1702.80- 1677.80- 605.10- 78.00- 42.30- 30.30- 27.60- 20.30- 16.10- 7.00- 5.00- 4.20- 3.45- 2.90- 1.65- 1.35- 80- 70- 600- 5.00- 5.00- 2.00- 2.00- 2.00- 2.00- 2.00- 2.00- 3.45- 3.35- 3.05- 2.55- 2.55- 2.00- 2.00- 2.15- 1.15-	23.50 23.30 16.10 9.80 9.80 9.20 7.40 4.00 3.50 2.40 2.40 2.50 0.65 0.45 0.25 0.20 0.15 0.15 0.15 0.10 0.10 0.00	1.000 1.000 1.000 1.000 1.001 1.000 1.001		100 20  110  10  10  10	15 7 464 300 226 16 51 450 181 101 40 1000 50 80 30 380 + 1296 566 - 1692 1081 - 125 563 - 109 2607 + 36 37 - 1175 - 1175 - 1275 - 1286 - 1296 - 1296 - 1297 - 1297 - 1298 -	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	1707.50 13.00 37.50 27.00 13.00 37.50 27.00 12.40 3.95 17.80 4.05 4.00 3.85 12.20 4.35 4.00 3.70 4.05 4.00 17.70 4.00 3.95	1707.50 13.00 35.50 22.80 30.00A 27.50A 25.00A 3.50 3.95 4.05 1.70 4.00 4.10 3.85 1.70 4.10 3.85 1.70 4.10 3.85 1.70 4.10 3.85 1.70 4.10 3.85 1.70 4.10 3.85 1.70 4.10 3.85 1.70 4.10 3.85 3.25 2.90A 3.70 3.60 1.45 .20 1.85
1000 1005 1000 1025 2100 2650 2700 2720 2725 2740 2775 2780 2775 2780 2785 2800 2805 2805 2810 2815 2820 2825 2830 2815 2840 2845 2850 2879 2879 2885 2890 2905 2900 2905 2910 2925	3.50 	3.50	*3.50	1726.30N 1701.30N 628.40N 94.10N 54.20N 40.10N 36.80N 27.70N 22.20N 13.40N 11.60N 9.90N 8.40N 7.10N 6.00N 3.50 4.15N 3.40N 2.30N 1.95N 1.60N 1.35N 1.15N .95N 1.100 .70N 40N 40N 40N 40N 40N 40N 35N 20 30N 25N	1702.80- 1677.80- 605.10- 78.00- 42.30- 30.30- 27.60- 20.30- 16.10- 7.00- 6.00- 5.00- 4.20- 3.45- 2.90- 2.40- 2.60- 5.00- 1.65- 1.35- 80- 70- 6.00- 5.00- 2.50- 2.0- 2.0- 2.0- 2.0- 2.0- 2.0- 2.0- 2.	23.50 23.30 16.10 9.80 9.80 7.40 6.10 6.10 2.90 2.40 1.85 1.080 0.65 0.45 0.25 0.20 0.15 0.15 0.10 0.10 0.10 0.10	1.000 1.000 1.000 1.000 1.000 1.001 1.000 1.001		100	15 7 464 300 226 16 51 450 181 101 40 1000 50 80 30 380 + 1296 566 - 1692 1081 - 125 563 - 109 2607 + 37 - 1175 - 11	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	1707.50 13.00 37.50 27.00 12.40 12.40 3.95 17.80 4.05 4.00 6.00 3.85 12.20 4.35 4.00 3.90 3.70 4.00 4.05 4.00 3.90 3.70 4.00 3.90 3.70 4.00 3.90	1707.50 13.00 35.50 22.80 30.00A 27.50A 25.00A 3.50 3.95 4.05 1.70 4.00 4.10 3.85 1.00 3.85 1.70 3.85 3.25 2.90A 3.70 3.60 1.45 2.0 1.85 6.65
1000 1005 1000 1025 2100 2650 27700 27720 27725 27840 2750 27770 27785 2785 2790 2785 2800 2805 2810 2815 2820 2825 2835 2845 2850 2845 2850 2855 2860 2875 2880 2885 2880 2890 2905 2900 2905 2910 2925 2960 2970 2980	3.50 	3.50	*3.50	1726.30N 1721.30N 1628.40N 94.10N 54.20N 40.10N 36.80N 27.70N 22.20N 13.40N 11.60N 9.90N 8.40N 7.10N 6.00N 3.50 4.15N 3.40N 2.30N 1.95N 1.15N 1.15N .95N 4.0N .40N .40N .40N .40N .40N .40N .40	1702.80- 1677.80- 605.10- 78.00- 42.30- 30.30- 27.60- 20.30- 16.10- 9.40- 8.10- 7.00- 4.20- 3.45- 2.90- 2.40- 2.00- 1.65- 1.358080808080808080	23.50 23.30 16.10 9.80 9.20 9.20 9.20 9.20 9.20 1.50 1.55 1.00 0.65 0.45 0.45 0.25 0.25 0.25 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.1	1.000 1.000 1.000 1.000 1.000 1.001 1.000 1.001		100	15 7 464 300 226 16 51 450 181 101 40 1000 50 80 30 380 + 1296 566 - 1692 1081 - 125 563 - 109 2607 + 36 37 - 1175 - 134 472 + 150 240 315 335 347 347 347 347 347 347 347 347	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	1707.50 13.00 37.50 27.00 12.40 3.95 17.80 4.00 6.00 3.85 12.20 4.35 4.00 3.90 3.70 4.00 4.00 4.00 4.00 3.95	1707.50 13.00 35.50 22.80 35.50 22.80 35.50 22.80 3.50 3.95 4.05 1.70 4.00 4.10 3.85 1.00 3.85 1.00 3.85 1.00 3.85 1.00 3.85 1.00 3.85 1.00 3.85 1.00 3.85 1.00 3.85 1.00 3.85 1.00 3.85 1.00 3.85 1.00 3.85
1000 1005 1000 1025 2100 2650 2700 2720 2725 2740 2750 2775 2780 2775 2780 2785 2800 2885 2890 2885 2845 2845 2855 2860 2845 2855 2860 2875 2885 2880 2885 2880 2885 2890 2990 2995 2990 2995	3.50 	3.50	*3.50 *1.00 *1.00 *20	1726.30N 1701.30N 628.40N 94.10N 54.20N 40.10N 36.80N 27.70N 22.20N 13.40N 11.60N 9.90N 8.40N 7.10N 6.00N 3.50 4.15N 3.40N 1.95N 1.60N 1.35N 1.15N 1.00 .70N .40N .40N .40N .40N .40N .40N .40N .4	1702.80- 1677.80- 605.10- 78.00- 42.30- 30.30- 27.60- 20.30- 16.10- 7.00- 6.00- 5.00- 4.20- 3.45- 2.90- 1.65- 1.35- 1.1595- 2.50202020202020202	23.50 23.30 16.10 9.80 9.20 7.40 6.10 2.40 2.40 2.40 1.55 1.00 0.65 0.65 0.45 0.25 0.25 0.25 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.1	1.000 1.000 1.000 1.000 1.000 1.001 1.000 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.000 1.000		100 20  100 4	15 7 464 300 226 16 51 450 181 101 40 1000 50 80 30 30 + 1 296 566 - 1692 1081 - 125 563 - 109 2607 + 36 37 - 137 - 137 - 138 - 149	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	1707.50 13.00 37.50 27.00 12.40 3.95 17.80 4.05 4.00 3.85 12.20 4.35 4.35 4.05 4.00 3.90 3.70 4.05 4.05 4.00 3.90 3.70 4.05	1707.50 13.00 35.50 22.80 35.50 22.80 37.50A 27.50A 25.00A 3.50 3.95 4.05 1.70 4.00 4.10 3.85 1.00 3.85 3.25 3.25 3.25 3.25 3.25 3.25 3.25 3.2
1000 1005 1000 1025 2100 2650 2700 2720 2720 2725 2740 2775 2780 2775 2780 2785 2890 2885 2890 2815 2820 2825 2830 2815 2840 2845 2850 2879 2879 2879 2990 2990 2990 2990 2900 2905 2910 2905 2910 2905 2910 2925 2935 2960 3000 30025 3070 23160	3.50 	3.50 	*3.50 **1.00 **.20 *.20	1726.30N 1701.30N 628.40N 94.10N 54.20N 40.10N 36.80N 27.70N 22.20N 13.40N 11.60N 9.90N 8.40N 7.10N 6.00N 3.50 4.15N 3.40N 2.30N 1.95N 1.60N 1.35N 1.15N 1.50N 4.40N 2.30N 2.30N 2.30N 2.30N 2.30N 2.30N 2.30N 2.30N 2.30N 3.45N 3.40N 3.50N 3.5	1702.80- 1677.80- 605.10- 78.00- 42.30- 30.30- 27.60- 20.30- 16.10- 7.00- 6.00- 5.00- 4.20- 3.45- 2.90- 2.40- 2.00- 1.65- 1.35- 8070- 600- 505045- 335- 30252520202020202	23.50 23.30 16.10 9.80 9.20 7.40 4.00 3.50 2.40 1.80 1.55 1.00 0.65 0.45 0.45 0.25 0.25 0.20 0.15 0.15 0.15 0.15 0.10 0.10 0.10 0.1	1.000 1.000 1.000 1.000 1.001 1.000 1.001		100 20  110 20  10 4 	15 7 464 300 226 16 16 17 450 181 101 40 1000 50 80 30 380 + 1296 566 - 1692 1081 - 125 563 - 109 2607 + 36 37 - 1175 - 1175 - 1240 - 125 - 1275 - 127	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	1707.50 13.00 37.50 27.00 12.40 3.95 17.80 4.05 4.00 3.85 12.20 4.35 4.05 4.00 3.90 3.70 4.05 4.00 3.90 3.70 4.05 4.00 4.05 4.00	1707.50 13.00 35.50 22.80 22.80 27.50A 27.50A 27.50A 3.50 3.95 4.05 1.70 4.00 4.10 3.85 1.00 4.10 3.85 1.00 3.85 1.00 3.60 1.45 5.20 1.85 5.65
1000 1005 1000 1025 2100 2650 2700 2720 2725 2740 2775 2780 2775 2780 2775 2780 2790 2795 2800 2805 2810 2815 2820 2825 2830 2845 2850 2845 2850 2875 2880 2890 2905 2910 2925 2935 2910 2925 2936 2970 2925 2936 2970 2925 2936 2970 2980 3000 3025 3070 3160 3160 3160	3.50 1.00 2.20 2.20	3.50 	*3.50 *1.00 *.20 *.20	1726.30N 1701.30N 628.40N 94.10N 54.20N 40.10N 36.80N 27.70N 22.20N 13.40N 11.60N 9.90N 8.40N 7.10N 6.00N 3.50 4.15N 3.40N 1.95N 1.60N 1.35N 1.15N 1.50N 4.0N 2.30N 1.35N 1.50N 4.5N 2.20 3.50N 4.5N 3.50N 4.5N 3.50N 4.5N 3.50N 4.5N 3.50N 4.5N 3.50N 4.5N 3.5N 3.5N 3.5N 3.5N 3.5N 3.5N 3.5N 3	1702.80- 1677.80- 605.10- 78.00- 42.30- 30.30- 27.60- 20.30- 16.10- 7.00- 6.00- 5.00- 4.20- 3.45- 2.90- 2.40- 1.65- 1.35- 1.15- 95- 2.90- 2.40- 2.00- 1.65- 1.35- 1.15- 95- 2.5- 2.5- 2.5- 2.20- 2.0- 2.5- 2.5- 2.5- 2.5- 2.5- 2.5- 2.5- 2.5	23.50 23.30 16.10 9.80 9.80 9.20 7.40 4.00 3.50 2.40 2.40 2.40 1.85 1.080 0.65 0.45 0.25 0.20 0.15 0.15 0.10 0.10 0.10 0.10 0.10 0.1	1.000 1.000 1.000 1.000 1.000 1.001 1.000 1.001 1.000 1.001 1.000		100	15 7 464 300 226 16 51 450 450 1000 50 80 30 380 + 1 296 563 - 1 105 1081 - 1 2607 + 36 335 240 - 1 175 - 1 196 347 - 1 347 - 1 348 - 1 349 - 1 340	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	1707.50 13.00 37.50 27.00 12.40 3.95 17.80 4.05 4.00 3.85 12.20 4.35 4.00 3.70 4.00 3.70 4.00 3.95	1707.50 13.00 35.50 22.80 27.50A 27.50A 27.50A 27.50A 3.50 3.95 4.05 1.70 4.10 3.85 1.70 4.10 3.85 1.00 3.95 4.05 1.00 1.85 5.20 1.85
1000 1005 1000 1005 2100 2650 2700 2720 2725 2740 2750 2775 2780 2775 2780 2785 2790 2785 2780 2825 2830 2825 2830 2825 2845 2850 2875 2880 2875 2880 2875 2880 2995 2990 2905 2910 2925 2935 2960 2970 2906 2970 2980 3000 3025 3070 3160 TOTAL AUG18 100	3.50 1.00 1.00 20 20	3.50 1.00 20	*3.50 *1.00 *20 *20	1726.30N 1701.30N 1701.30N 94.10N 94.10N 94.10N 94.10N 36.80N 27.70N 13.40N 11.60N 9.90N 8.40N 7.10N 6.00N 3.50 4.15N 3.40N 2.30N 1.95N 1.15N 1.15N .95N 1.00 .70N .65SN .95N 1.00 .70N .65SN .95N 1.15N .95N	1702.80- 1677.80- 1677.80- 78.00- 42.30- 30.30- 27.60- 20.30- 16.10- 9.40- 8.10- 7.00- 6.00- 5.00- 1.65- 1.35- 1.15- 1.95- 80- 2.90- 2.00- 2.00- 1.65- 1.35- 1.15- 1.15- 1.15- 1.15- 1.15- 1.15- 1.15- 1.15- 1.15- 1.15- 1.15- 1.15- 1.15- 1.15- 1.15- 1.15- 1.05- 2.05-	23.50 23.50 23.30 16.10 9.80 9.20 7.40 6.10 9.80 6.10 1.80 1.55 1.00 0.65 0.45 0.45 0.45 0.25 0.25 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.1	1.000 1.000 1.000 1.000 1.000 1.001 1.005 1.006 1.001 1.000 1.000 1.000 1.000 1.000 1.000		100 20 	15 7 464 300 226 16 51 450 181 101 40 1000 50 80 30 380 + 1296 566 - 1692 1081 - 125 563 - 109 2607 + 36 335 240 - 1175 - 196 240 - 1175 - 196 340 240 - 1175 - 196 340 240 - 1175 - 196 340 340 340 340 340 340 340 340	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	1707.50 13.00 37.50 27.00 12.40 3.95 17.80 4.00 6.00 3.85 12.20 4.35 4.00 3.90 3.70 4.00 4.00 4.00 3.95	1707.50 13.00 35.50 22.80 35.50 22.80 35.50 22.80 3.50 3.95 4.05 4.170 4.00 4.10 3.85 1.70 4.00 4.10 3.85 1.70 4.00 4.145 1.20 1.85 1.85 1.85 1.90A
1000 1005 1000 1005 2100 2650 2700 2720 2725 2740 2750 2775 2780 2775 2780 2785 2790 2785 2800 2815 2820 2825 2835 2845 2850 2845 2850 2845 2850 2875 2880 2885 2890 2905 2910 2925 2935 2960 2905 2910 2925 2936 3000 3025 3070 3160 3240 TOTAL AUGIS 100 2100 2100 21225	1.00 20 1.00 20	3.50 1.00 1.00 1.00	*3.50 *1.00 *20 *20 *20 *3.50 *1.00	1726.30N 1701.30N 1701.30N 94.10N 94.10N 94.10N 94.10N 36.80N 27.70N 22.20N 13.40N 11.60N 9.90N 8.40N 7.10N 6.00N 3.50 4.15N 3.40N 2.30N 1.95N 1.15N 1.15N 1.15N .95N 1.00 .70N .65N .50N .45N .40N .23SN .20N .25N .20N .35N .35N .35N .35N .35N .35N .35N .35	1702.80- 1677.80- 1677.80- 78.00- 42.30- 30.30- 27.60- 20.30- 16.10- 9.40- 8.10- 7.00- 4.20- 3.45- 2.90- 2.40- 2.00- 1.65- 1.35- 30- 25- 25- 20- 20- 20- 20- 20- 20- 20- 20- 20- 20	23.50 23.50 23.30 16.10 9.80 9.20 7.40 6.10 9.20 7.40 6.10 0.10 0.65 0.25 0.25 0.25 0.25 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.1	1.000 1.000 2.91 6.695 5.527 4.418 4.18 3.47 2.99 2.007 1.85 1.166 1.47 1.128 0.96 1.051 0.043 0.071 0.012 0.010 0.010 0.0000 0.000		100 20  100 4  0	15 7 464 300 226 16 16 16 17 450 181 101 40 1000 50 80 30 380 1 296 109 266 1125 563 109 2607 1175 134 40 1175 137 137 137 137 137 137 137 137	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	1707.50 13.00 37.50 27.00 12.40 3.95 17.80 4.05 4.00 3.85 12.20 4.35 4.05 4.00 3.90 3.70 4.05 4.05 4.00 3.90 3.70 4.05 4.00 3.95	1707.50 13.00 35.50 22.80 27.50A 27.50A 27.50A 27.50A 3.50 3.95 4.05 1.70 4.10 3.85 1.70 4.10 3.85 1.00 3.95 4.05 1.00 1.85 5.20 1.85
1000 1000 1025 2100 2650 2700 2720 2725 2740 2775 2780 2775 2785 2790 2795 2800 2805 2810 2815 2820 2825 2830 2835 2840 2845 2855 2850 2855 2860 2875 2880 2885 2890 2905 2910 2925 2935 2990 2905 2910 2925 2935 2940 3026 30270 3160 3240 TOTAL AUG18 1000 2100	1.00 1.00 20		*3.50 *1.00 *1.00 *20 *1.00 *1.00	1726.30N 1726.30N 1721.30N 628.40N 94.10N 54.20N 40.10N 36.80N 27.70N 22.20N 13.40N 11.60N 9.90N 8.40N 7.10N 6.00N 3.50 4.15N 3.40N 2.30N 1.95N 1.15N 1.15N .95N 1.00 .70N .65N .70N .65N .70N .65N .70N .70N .70N .70N .70N .70N .70N .70	1702.80- 1677.80- 1677.80- 42.30- 30.30- 27.60- 20.30- 16.10- 7.00- 6.00- 5.00- 4.20- 3.45- 2.90- 1.65- 1.35- 1.1595- 2.50202020202020202	23.50 23.30 16.10 9.80 9.20 7.40 4.00 3.50 2.40 1.80 1.55 1.00 0.65 0.65 0.45 0.25 0.20 0.15 0.15 0.15 0.15 0.10 0.10 0.10 0.1	1.000 1.000 2.91 6.695 5.527 4.418 4.18 3.47 2.99 2.07 1.85 1.12 0.96 1.051 0.051 0.03 0.07 0.01 0.01 0.000		100 20	15 7 464 300 226 16 16 16 17 450 181 101 40 1000 50 80 30 380 + 1296 566 - 1692 1081 - 125 563 - 109 2607 + 36 37 - 1175 - 1374 - 472 + 150 240 315 33 40 40 40 40 40 40 40 40 40 40	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	1707.50 13.00 37.50 27.00 12.40 3.95 17.80 4.05 4.00 3.85 12.20 4.35 4.00 3.90 3.70 4.05 4.00 3.90 3.70 4.05 4.00 3.90 3.90 3.90 3.90 3.90	1707.50 13.00 35.50 22.80 30.00A 27.50A 25.00A 3.50 3.95 4.05 1.70 4.00 4.10 3.85 1.70 4.10 3.85 1.70 4.10 3.85 1.70 4.10 3.85 1.00
1000 1005 1000 1025 2100 2650 2700 27720 27725 2740 2775 2780 2775 2780 2775 2800 2795 2810 2815 2820 2825 2835 2840 2835 2840 2845 2850 2875 2880 2875 2880 2990 2905 2910 2925 2935 2940 2925 29360 2970 2980 3000 3025 3070 3160 3240 TOTAL AUG18 1000 27725 2750		1.00 1.00 1.00 1.00 1.00 1.00 1.00	*3.50 *3.50 *1.00 **.20 **.20	1726. 30N 1701. 30N 628. 40N 94. 10N 54. 20N 40. 10N 36. 80N 27. 70N 22. 20N 13. 40N 11. 60N 9. 90N 8. 40N 7. 10N 6. 00N 3. 50 4. 15N 2. 80N 2. 30N 1. 95N 1. 60N 1. 35N 1. 60N 1. 35N 1. 60N 2. 30N 1. 95N 1. 60N 1. 35N 1. 15N 1. 10N 1. 20N 1	1702.80- 1677.80- 1677.80- 605.10- 78.00- 42.30- 30.30- 27.60- 20.30- 16.10- 7.00- 6.00- 5.00- 4.20- 3.45- 2.90- 2.40- 2.00- 1.65- 1.35- 80- 70- 600- 50- 45- 35- 25- 25- 20- 20- 20- 15- 115- 15- 15- 15- 15- 15- 15- 25- 25- 20- 20- 20- 20- 20- 20- 20- 20- 20- 20	23.50 23.30 16.10 11.90 9.80 9.20 7.40 6.10 6.10 1.80 0.65 0.45 0.25 0.20 0.15 0.15 0.15 0.10 0.10 0.10 0.10 0.1	1.000 1.000 2.91 6.95 5.27 4.41 3.47 2.99 2.07 1.85 1.166 1.147 1.28 1.12 0.96 0.83 0.071 0.051 0.043 0.037 0.020 0.017 0.010 0.008 0.006 0.005 0.006 0.005 0.006 0.005 0.006 0.005 0.006 0.005 0.006 0.005 0.006 0.005 0.006 0.005 0.006 0.005 0.006 0.005 0.006 0.005 0.006 0.005 0.006 0.005 0.006 0.005 0.006 0.005 0.006 0.005 0.006 0.005 0.006 0.006 0.005 0.006		100 20 100 100 100 100 100 100 100 100 1	15 7 464 300 226 16 51 450 181 101 40 1000 50 80 30 380 + 1 296 563 - 1 109 2607 + 36 37 - 1 196 37 - 1 196 38 - 1 196 30 - 1 196 30 - 1 196 30 - 1 196 31 - 1 196 31 - 1 196 31 - 1 196 31 - 1 196 31 - 1 196 30 - 1 196 31 - 1 196 31 - 1 196 31 - 1 196 30 - 1 40 - 1	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	1707.50 13.00 37.50 27.00 13.00 37.50 27.00 12.40 3.95 17.80 4.05 4.00 6.00 3.85 12.20 4.35 4.00 3.70 4.05 4.00 3.70 4.05 4.00 3.70 4.00 3.95	1707.50 13.00 35.50 22.80 30.00A 27.50A 25.00A 3.50 3.95 4.05 1.70 4.00 4.10 3.85 3.25 2.90A 3.70 3.60 1.45 2.90A 3.70 3.65
1000 1005 1000 1005 2100 2650 2700 2720 2725 2740 2750 2770 2775 2780 27780 2785 2790 2785 2880 2825 2830 2825 2845 2850 2845 2850 2875 2880 2995 2990 2905 2910 2925 2980 2905 2910 2925 2980 3000 3025 3070 3160 2100 2100 2100 2100 2100 2100 21755 2780 2800 2875	1.00 1.00 20 20 20	3.50 1.00 1.00 1.00	*3.50 *1.00 **.20 **.20	1726. 30N 1701. 30N 628. 40N 94. 10N 54. 20N 40. 10N 36. 80N 27. 70N 22. 20N 13. 40N 11. 60N 9. 90N 8. 40N 7. 10N 6. 00N 3. 50 4. 15N 3. 40N 2. 30N 1. 15N 1. 15N 1. 15N 1. 15N 2. 30N 2. 30N 1. 35N 2. 30N 2. 30N 2. 30N 3. 50 4. 15N 3. 50 4. 15N 3. 50 4. 15N 3. 50N 4. 15N 3. 50N 4. 15N 4. 1	1702.80- 1677.80- 1677.80- 605.10- 78.00- 42.30- 30.30- 27.60- 20.30- 16.10- 7.00- 6.00- 5.00- 4.20- 3.45- 2.90- 2.40- 1.65- 1.35- 1.15- 95- 2.90- 2.40- 2.00- 1.65- 1.35- 1.15- 0.5- 2.5- 2.5- 2.20- 2.00- 2.5- 2.5- 2.5- 2.5- 2.5- 2.5- 2.5- 2.5	23.50 23.30 16.10 9.80 9.80 7.40 6.10 4.00 3.50 2.40 1.80 0.65 0.25 0.20 0.15 0.15 0.15 0.15 0.10 0.10 0.10 0.1	1.000 1.000 2.91 6.95 5.27 4.418 3.47 2.99 2.07 1.85 1.66 1.47 1.28 1.12 0.96 0.031 0.051 0.012 0.015 0.012 0.015 0.012 0.016 0.05 0.017 0.010 0.008 0.007 0.006 0.005 0.004 0.003 0.001 0.000		100 	15 7 464 300 226 16 16 16 17 450 181 101 40 1000 50 80 30 380 1 296 169 266 1981 125 109 2607 135 167 175 134 40 40 1175 134 40 40 1175 134 40 40 40 1175 137 137 138 40 40 40 40 40 40 40 40 40 40	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	1707.50 13.00 37.50 27.00 12.40 3.95 17.80 4.00 6.00 3.85 12.20 4.35 4.00 3.90 3.70 4.00 4.00 3.90 3.70 4.00 4.00 3.95	1707.50 13.00 35.50 22.80 35.50 22.80 35.50 22.80 3.50 3.95 4.05 1.70 4.00 4.10 3.85 1.00 3.85 1.00 3.85 1.00 3.85 1.00 3.85 1.00 3.85 1.00 3.85 1.00 3.85 1.00 3.85 3.25 3.90A
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1000 1005 1000 1005 2100 2650 2700 2720 2725 2740 2750 27770 27780 27770 2785 2780 2795 2800 28810 2815 2820 2825 2845 2855 2860 2875 28860 2875 28870 2875 2880 28900 2905 2910 2925 2935 2940 2925 2950 2977 2980 3002 2925 2960 2970 2925 2970 2925 2980 3000 2905 2910 2925 2935 2960 2975 2980 3002 2925 2970 2925 2970 2925 2970 2980 3025 3070 31260 2975 2775 2780 2820 2825 2775 2780 2820 2825 2830 2830 2835 2840			*3.50 *1.00 *1.00 *1.00 *1.00	1726.30N 1721.30N 628.40N 94.10N 54.20N 40.10N 36.80N 27.70N 22.20N 13.40N 11.60N 9.90N 8.40N 7.10N 6.00N 3.50 4.15N 3.40N 2.30N 1.95N 1.60N 1.35N 1.15N 1.15N 1.15N 2.50N	1702.80- 1677.80- 605.10- 78.00- 42.30- 30.30- 27.60- 20.30- 16.10- 9.40- 8.10- 7.00- 6.00- 5.00- 4.20- 3.45- 2.90- 2.40- 2.00- 1.65- 1.35- 30- 25- 25- 20- 20- 20- 20- 20- 20- 20- 20- 20- 20	23.50 23.30 16.10 9.80 9.20 7.40 4.00 3.50 2.40 1.80 1.55 1.00 0.65 0.45 0.45 0.25 0.20 0.15 0.15 0.15 0.10 0.10 0.10 0.10 0.1	1.000 1.000 1.000 1.000 1.000 1.001 1.000 1.001 1.001 1.001 1.001 1.001 1.001 1.001 1.000 1.001 1.000			15 7 464 300 226 16 16 16 17 450 181 101 40 1000 50 80 30 380 41 296 366 1692 1081 125 109 2607 436 347 240 315 347 40 40 40 157 30 40 40 40 40 40 40 40 40 40 4	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	1707.50 13.00 37.50 27.00 12.40 3.95 17.80 4.05 4.00 3.85 12.20 4.35 4.00 3.90 3.70 4.05 4.00 3.90 3.70 4.05 4.00 17.70 4.00 17.70 4.00	1707.50 13.00 35.50 22.80 35.50 22.80 27.50A 27.50A 3.50 3.95 4.00 4.10 3.85 1.70 4.00 4.10 3.85 1.70 3.60 1.45 5.20 1.85 65
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## **FINAL**

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PG49 в	ULLETIN #123@				S&P 500 CALL	OPTIC	NS				Wed	, Jun	27, 20	18 PG49
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