

Data Sheet

NT51008

1536 ch Source Driver with LVDS TCON
For 1024RGBx768/600 TFT LCD

V0.6

Preliminary Spec





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Revision History

	NT51008 Specification Revision F	listory								
Version	Content	PAGE	Date							
0.6	Add no_clock detection Add DIMI for brightness control	4 9,12,42	2009/09/17							
0.5	Reivse Pad Sequence 9 Revise Pad Coordinate 42,43									
0.4	Add Appendix A: BIST pattern	52	2009/09/10							
0.3	Modify Application Power Circuit Modify Chip Outline Dimension Modify Pad Coordinate	8 40,41 42,43,47,51	2009/09/03							
0.2	Revise all	All	2009/08/06							
0.1	Revise all	All	2009/03/04							
0.0	New spec.	- 0	2009/02/18							
	JATEN CONFIN									



Features

- Special design for 1024RGBx600 TFT LCD Panel with LVDS/TTL interface
- Integrate 1536 channel source driver with single or dual gate function
- Support cascade function with bidirectional shift control (CMOS signal)
- Support panel resolution (HxV) : 1024(RGB) x 768 , 1024(RGB) x 600 , 800(RGB) x 600 , 800(RGB) x 480
- 8-bit resolution 256 gray-scale with Dithering (6 bits DAC + 2 bit FRC or HFRC)
- Support Pin Control function for Up/Down, Left/Right ... control
- Power for digital circuit(VDD): 2.3V ~ 3.6V
- Power for analog circuit(AVDD): 6.5V ~ 13.5V
- Operating frequency: 71 MHz (Max.)
- Embedded Gamma Table for special custom request
- V1~V14 for adjusting Gamma correction
- 1 + 2 dot inversion architecture
- Built-In PWM controller for AVDD , Charge pump for VGH / VGL , and VCOM buffer
- Built-In CABC function
- Built-In AUTO pattern
- Built-In SDRRS function
- Support no_clock detection
- COG package \
- Chip size = 25000um x 700um
- Output bump pitch = 15um

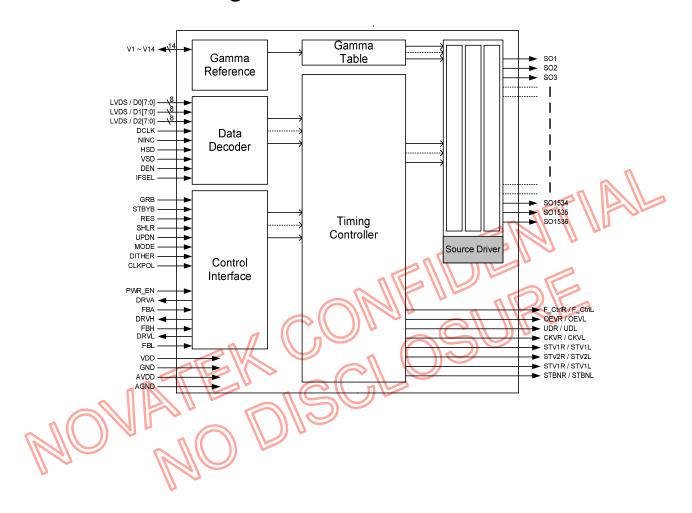
General Description

The NT51008 is a highly integrated solution for small size to middle size a-Si TFT-LCD panels. This chip integrates 1536ch dual gate mode source driver with LVDS and parallel RGB input interface. This chip is special designed for low cost UMPC application.

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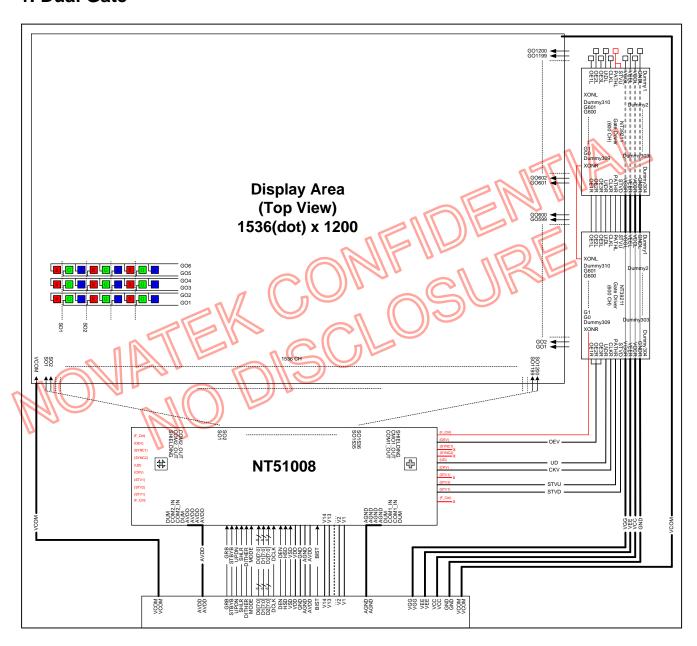
Function Block Diagram





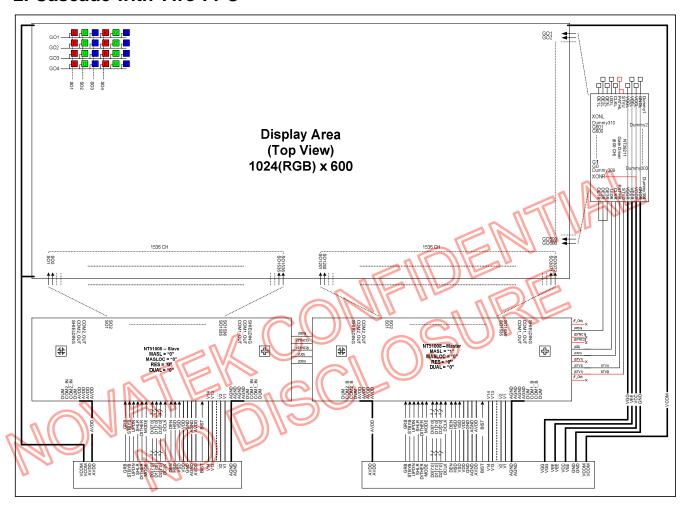
Application Block Diagram

1. Dual Gate



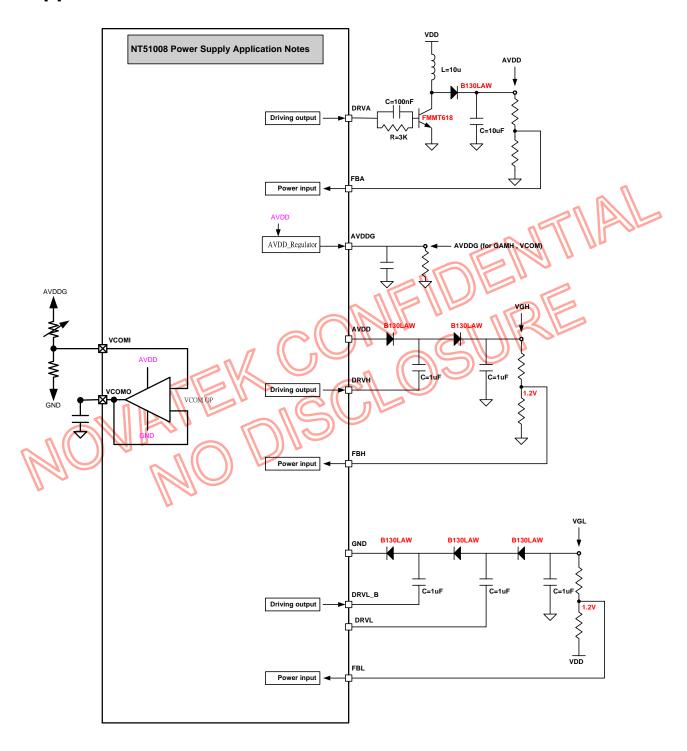


2. Cascade with Two-FPC



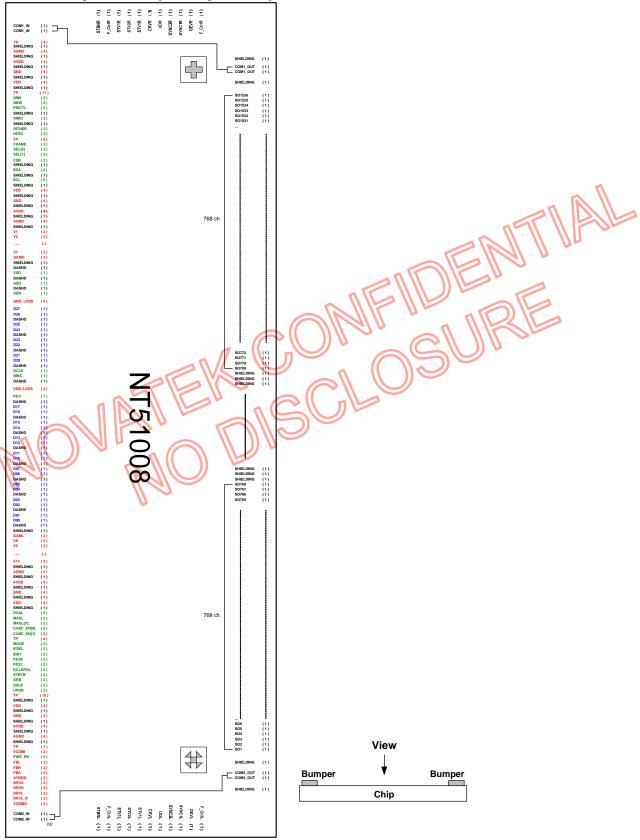


Application Power Circuit





Pad Sequence (bump side)





Pin Descriptions

Designation	I/O	Description								
		LVDS or Parallel RGB data Input. Select by "IFSEL" pin.								
		Pin name	TTL input mode	LVDS input mode						
			IFSEL = L	IFSEL = H						
		D2[0], D2[1]	B[0], B[1]	NIND0, PIND0						
		D2[2], D2[3]	B[2], B[3]	NIND1, PIND1						
D07 D00		D2[4], D2[5]	B[4], B[5]	NIND2, PIND2						
D07~D00	١.	D2[6], D2[7]	B[6], B[7]	NIND3, PIND3						
D17~D10	l		out : PIND[2:0], NIND							
D27~D20)] data; D[27:20] = B[7:0] data.						
			•	SB bits of all the R/G/B data buses to GND.						
			SO1 , SO4 SO15	~ W W W						
			SO2 , SO5 SO1							
		D27~D20 -)	SO3 , SO6 SO1	533 , 801536						
		Please note	the relation between	RGB data and Color Filter sequence						
		Clock Input pin for	LVDS or TTL mode.	Select by "IFSEL" pin.						
DCLK	١,	Pin name	TTL input mode	LVDS input mode						
DOLK			IFSEL = L	IFSEL = H						
	-	DCLK	DCLK	PINC						
NINC	l l	ATC IVA	ferential clock input.							
HSD		11 11 11	out for TTL mode. Ne	· · · · · · · · · · · · · · · · · · ·						
VSD	N		for TTL mode. Negat	•						
DEN		. 11 11	Active High to enable	e the data input bus under "DE Mode".						
		Normally pull low.								
MODE	17	DE / SYNC mode select under TTL mode. Normally pull high								
MODE	11	H: DE mode. L: H	HSD/VSD mode.							
	1)	TTL and LVDS Inte	erface selection. Norn	nally pull low						
IFSEL	I	IFSEL = L : TTL int	terface							
		IFSEL = H : LVDS	interface							
		Display resolution	selection. Normally p	ull low						
		RES[1:0] = "01", fo	r 1024(RGB)*768 dis	play resolution(dual or cascade)						
		RES[1:0] = "00", fo	r 1024(RGB)*600 dis	play resolution(dual or cascade) (Default)						
RES[1:0]	1	RES[1:0] = "10", fo	r 800(RGB)*600 disp	lay resolution(dual or cascade)						
		(6	601~936 channel disa	ble)						
		RES[1:0] = "11", for 800(RGB)*480 display resolution(dual or cascade)								
		(601~936 channel disable)								
		Dithering function enable control. Normally pull low								
DITHER	ı	_	able internal dithering	• •						
		DITHER = "0", Disable internal dithering function								
		H-FRC selection. N								
		HFRC = H : H-FRC	* *							
HFRC	1 I	HFRC = L : FRC e								
				ion(H-FRC and FRC disable)						
			election. Normally pul	·						
DCLKPOL			ch data at DCLK risin							
	<u> </u>	CLINI OL - 1, Lat	on data at DOLIN IISIII	ig cago.						



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		CLKPOL = "0", Latch data at DCLK falling edge. (Default)
		Dual Gate function enables control. Normally pull high
		DUAL = "1", Enable Dual Gate Function. (Default)
DUAL	I	·
		DUAL = "0", Disable Dual Gate Function
		Note: Cascade function will be disabled under "dual gate" mode!!
		When INTERNAL Gamma Table is used. GAMH tied to AVDDG, GAML tied to GND and
V1 ~ V14	١,	V1~V14 pad are un-used.
V 1 ~ V 14	'	When using external gamma voltage, GAMH and GAML are floaging, and V1~V14 are the external gamma correction points. The voltage of these pins must be:
		AGND <v14<v13<v12<v11<v10<v9<v8;v7<v6<v5<v4<v3<v2<v1< avdd.<="" td=""></v14<v13<v12<v11<v10<v9<v8;v7<v6<v5<v4<v3<v2<v1<>
GAMH	ı	When using INTERNAL Gamma Table , tied to AVDDG . Otherwise floating.
GAML	<u> </u>	When using INTERNAL Gamma Table , tied to GND . Otherwise floating.
GAIVIL	'	Global reset pin. Active Low to enter Reset State. Normally pull high.
GRB	I	,
		Suggest to connecting with an RC reset circuit for stability.
OTD\/D	١,	Standby mode, Normally pulled high.
STBYB	I	STBYB = "1", normal operation
		STBYB = "0", timing controller, source driver will turn off, all output are High-Z
		Master and Slave Mode selection. Normally pull high.
MASL		MASL = "H", for Master mode. (Default Mode)
		MASL = "L", for Slave mode.
		Only the Master chip will issue the Gate and Cascade control signal.
		Master location definition pin. Normally pull low.
MASLOC		MASLOC = "L", Master locate on right side (Panel top view). (Default Mode)
		MASLOC = "H", Master locate on left side (Panel top view).
		Source Right or Left sequence control. Normally pull high.
SHLR	1	SHLR = "L", shift left: last data = S1←S2←S3←S1200 = first data.
		SHLR = "H", shift right: first data = S1→S2→S3→S1200 = last data.
	1	Gate Up or Down scan control. Normally pull low.
UPDN	1	UPDN = "L", STV2 output vertical start pulse and UD pin output logical "0" to Gate driver.
	\	UPDN = "H", STV1 output vertical start pulse and UD pin output logical "1" to Gate driver.
		Normal Operation/BIST pattern select. Normally pull low
BIST	lı	BIST = H : BIST(DCLK input is not needed)
		BIST = L : Normal Operation
		Normally black or normally white setting. Normally pulled low.
NBW	ı	NBW = H : Normally black
		NBW = L : Normally white
		Controls whether the data of D00~D27 are inverted or not, normally pulled low.
REV	ı	When "REV"=1 these data will be inverted. EX. "00" \rightarrow " 3F", "07" \rightarrow " 38", "15" \rightarrow "2A", and
	Ľ	so on.
		Frame inverse or not select.
FRAME	I	FRAME = "1", Uniform FRAME = "0", Frame inverse (Default)
	I	11 TO WILL — V , 1 Tallie litrelise (Delauit)

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SEL[1:0] I 1 2+2 2 2 2 2 2 2 2 2			Gate on	sequence	select. Normally pull low						
SEL[1:0] I 1				•	<u> </u>						
SEL[1:0] 1											
OEVR/OEVL OGate driver control signal (CABC and BIST sync control) SYNC1R/SYNC1L OCABC and BIST sync control SYNC2R/SYNC2L OCABC and BIST sync control UDR/UDL OGate driver control signal (CABC and BIST sync control) CKVR/CKVL OGate driver control signal (CABC and BIST sync control) STV1R/STV1L OGate driver control signal STV2R/STV1L OGate driver control signal F. CtrlR/F_CtrlL OGATE driver control signal CABC EN="40", Still Picture. When CABC EN="40", Sti	SEL[1:0]	ı									
O O O Z			-								
OEVR/OEVL O Gate driver control signal (CABC and BIST sync control) SYNC1R/SYNC1L O CABC and BIST sync control SYNC2R/SYNC2L O CABC and BIST sync control CABC and BIST sync control CRYR/CKVL O Gate driver control signal (CABC and BIST sync control) CKVR/CKVL O Gate driver control signal (CABC and BIST sync control) STV1R/STV1L O Gate driver control signal ST2R/STV2L O Gate driver control signal STENR/STBNL O Gate driver control signal F_CtrlR/F_CtrlL O Gate driver control signal DIMO											
SYNC1R/SYNC2L O CABC and BIST sync control SYNC2R/SYNC2L O CABC and BIST sync control UDR/UDL CKVR/CKVL O Gate driver control signal (CABC and BIST sync control) CKVR/CKVL STV1R/STV1L O Gate driver control signal STDR/R/STW1L O Gate driver control signal STBNR/STBNL CABC H/W enable pin. Normally pull.low When CABC EN="00", CABC OFF, (Default mode) When CABC EN="00", CABC OFF, (Default mode) When CABC EN="01", User interface (mage) When CABC EN="01", Still Pleture. Whom CABC EN="01", User interface (mage) When CABC EN="01", Still Pleture. When CABC EN="01", User interface (mage) When CABC EN="01", User interface (
SYNC2R/SYNC2L UDR/UDL O Gate driver control signal (CABC and BIST sync control) CKVR/CKVL O Gate driver control signal (CABC and BIST sync control) STV1R/STV1L O Gate driver control signal STV2R/STV2L O Gate driver control signal F CtrlR/F CtrlL O Gate driver control signal F CtrlR/F CtrlL CABC HW enable pin. Normally pull low: When CABC EN="00", CABC OFF, (Default mode) When CABC EN="00", CABC OFF, (Default mode) When CABC EN="10", Still Picture. When CABC EN="10", Still Picture. When CABC EN="10", Still Picture. When CABC EN="10", DIMO		0			<u> </u>	control)					
UDR/UDL O Gate driver control signal (CABC and BIST sync control) CKWR/CKVL STV1R/STV1L STV1R/STV1L O Gate driver control signal STBNR/STBNL O Gate driver control signal F_CtrlR/F_CtrlL O Gate driver control signal CABC_EN="01", User-interdace (mage. When CABC_EN="10", Still Picture. When CABC_EN="11", Moving Image. DIMI I Brightness control signal. Normally pull high Backlight dimmer signal for external controller. DIMO = "1", Logical control signal to turn on external backlight controller NOTE: If CABC OFR_DIMO = DIMI. Else DIMO is controlled by CABC Enable pin control function. Normally pull high PINCTL="0", Disable pin control function. NOTE: The related 3-wire control register bit control will be disabled under PINCTL="1". CSB I Serial communication chip select. Normally pull low SCL I Serial communication data input. Normally pull low SCL AVDD PI Power supply for analog circuits VDD PI Power supply for digital circuits GND PI Ground pins for analog circuits VDD LVDS PI LVDS power GND_LVDS PI LVDS ground POWER enable. Normally pull low PWR_EN = H , enable PWM , Charge pump and VCOM buffer PWR_EN = L , disable PWM , Charge pump and VCOM buffer PWR EN = L , disable PWM , Charge pump and VCOM buffer PWR EN = L , disable PWM , Charge pump and VCOM buffer PWR EN = L , disable PWM , Charge pump and VCOM buffer PWR EN = L , disable PWM , Charge pump and VCOM buffer											
CKVR/CKVL STV1R/STV1L O Gate driver control signal STV2R/STV2L STV2R/STV2L O Gate driver control signal STBNR/STBNL O Gate driver control signal STBNR/STBNL O Gate driver control signal F_CtrlR/F_CtrlL O Gate driver control signal F_CtrlR/F_CtrlL CABC_HVW enable pin. Normally pull low When CABC_EN="00", CABC_OFF, (Default mode) When CABC_EN="01", User interface Image: When CABC_EN="10", Still Picture. When CABC_EN="10", Woving Image. DIMI I Brightness control signal. Normally pull high Backlight dimmer signal for external backlight controller DIMO DIMO "0" "Turn off external backlight controller DIMO "1", Logical control signal to turn on external backlight controller NOTE: If CABC_OFF, DIMO = DIMI. Else DIMO is controlled by CABC Enable pin control function. NOTE: The related 3-wire control register bit control will be disabled under PINCTL="1". CSB I Serial communication data input. Normally pull low SCL I Serial communication data input. Normally pull low SCL I Serial communication clack input. Normally pull low AVDD PI Power supply for analog circuits VDD PI Power supply for digital circuits VDD PI Power supply for digital circuits VDD LVDS PI LVDS power GND_LVDS PI LVDS power GND_LVDS PI LVDS ground POWER enable. Normally pull low PWR_EN = L, disable PWM, Charge pump and VCOM buffer PWR_EN = L, disable PWM, Charge pump and VCOM buffer PWR_EN = L, disable PWM, Charge pump and VCOM buffer PWR_EN = L, disable PWM, Charge pump and VCOM buffer PWM controller feedback input. (for VDD) FBH VI Charge Pump controller feedback input. (for VDD)	SYNC2R/SYNC2L	0									
STV1R/STV1L O Gate driver control signal STV2R/STV2L STBNR/STBNL O Gate driver control signal F_CtrlR/F_CtrlL O Gate driver control signal F_CtrlR/F_CtrlL CABC_H/W enable pin. Normally pull_low? When CABC_EN="00", CABC_OFF, (Default mode) When CABC_EN="10", User-interface Image. When CABC_EN="11", User-interface Image. When CABC_EN="11", Moving Image. DIMI I Brightness control signal. Normally pull high Backlight dimmer signal for external controller. DIMO = "0", Turn off external backlight controller NOTE_IF CABC_OFF, DIMO = DIMI. Else DIMO is controlled by CABC Enable pin control function. PINCTL ="1", Enable pin control function. PINCTL="1", Enable pin control function. NOTE: The related 3-wire control register bit control will be disabled under PINCTL="1". CSB I Serial communication chip select. Normally pull low SCL I Serial communication data input. Normally pull low SCL I Serial communication clock input. Normally pull low AVDD PI Power supply for analog circuits VDD PI Ground pins for analog circuits VDD PI Power supply for digital circuits VDD PI Power supply for digital circuits VDD LVDS PI LVDS power GND_LVDS PI LVDS power POWER enable. Normally pull low PWR_EN = H , enable PWM , Charge pump and VCOM buffer PWR_EN = L , disable PWM , Charge pump and VCOM buffer PWR_EN = L , disable PWM , Charge pump and VCOM buffer PWR_EN = L , disable PWM , Charge pump and VCOM buffer PWR_EN = L , disable PWM , Charge pump and VCOM buffer PWM controller feedback input. (for VDD) VI Charge Pump controller feedback input. (for VDD)	UDR/UDL	0	Gate driv	er control	signal (CABC and BIST sync	control)					
STV2R/STV2L STBNR/STBNL Gate driver control signal F_CtrlR/F_CtrlL OGate driver control signal F_CtrlR/F_CtrlL OGate driver control signal F_CtrlR/F_CtrlL OGate driver control signal CABC_EN="00", CABC_OFF, (Default mode) When CABC_EN="00", CABC_OFF, (Default mode) When CABC_EN="01", User interface Image. When CABC_EN="11", Moving Image. DIMI I Brightness control signal. Normally pull high Backlight dimmer signal for external controller. DIMO = "0", Turn off external backlight controller DIMO = "1", Legical control signal to turn on external backlight controller NOTE_IF CABC_OFF, DMO = DIMI. Else DIMO is controlled by CABC Enable pin control function. Normally pull high PINCTL="1", Enable pin control function. NOTE: The related 3-wire control register bit control will be disabled under PINCTL="1". CSB I Serial communication chip select. Normally pull low SCL I Serial communication data input. Normally pull low SCL I Serial communication clock input. Normally pull low AVDD PI Power supply for analog circuits VDD PI Ground pins for analog circuits VDD PI Ground pins for analog circuits VDD PI Ground pins for digital circuits VDD LVDS PI LVDS ground POWER enable. Normally pull low PWR_EN = I, enable PWM, Charge pump and VCOM buffer PWR_EN = L, disable PWM, Charge pump and VCOM buffer PWR_EN = L, disable PWM, Charge pump and VCOM buffer PWR_EN = L, disable PWM, Charge pump and VCOM buffer PWM controller feedback input. (for VDD) VI Charge Pump controller feedback input. (for VDD)	CKVR/CKVL	0	Gate driv	er control	signal (CABC and BIST sync	control)					
STBNR/STBNL O Gate driver control signal F_CtrlR/F_CtrlL O Gate driver control signal (For special Gate on sequence). CABC_EN[1:0] CABC_EN="00", CABC_OFF, (Default mode) When CABC_EN="100", CABC_OFF, (Default mode) When CABC_EN="101", User interface Image. When CABC_EN="111", Moving Image. DIMI I Brightness control signal. Normally pull high Backlight dimmer signal for external controller. DIMO = "0", Turn off external backlight controller DIMO = "0", Turn off external backlight controller DIMO = "1", Logical control signal to turn on external backlight controller NOTE: If CABC_OFF, DIMO = DIMI. Else DIMO is controlled by CABC Enable pin control function. Normally pull high PINCTL="0", Disable pin control function. NOTE: The related 3-wire control function. NOTE: The related 3-wire control register bit control will be disabled under PINCTL="1". CSB I Serial communication chip select. Normally pull low SCL I Serial communication data input. Normally pull low SCL I Serial communication data input. Normally pull low AVDD PI Power supply for analog circuits AGND PI Ground pins for analog circuits VDD PI Power supply for digital circuits VDD PI Power supply for digital circuits VDD LVDS PI LVDS power GND LVDS PI LVDS power GND LVDS PI LVDS ground POWER enable. Normally pull low PWR_EN = L, disable PWM, Charge pump and VCOM buffer PWR_EN = L, disable PWM, Charge pump and VCOM buffer PWR_EN = L, disable PWM, Charge pump and VCOM buffer PWR_EN = L, disable PWM, Charge pump and VCOM buffer PWR_EN = L, disable PWM, Charge pump and VCOM buffer PWR_EN = L, disable PWM, Charge pump and VCOM buffer PWR_EN = L, disable PWM, Charge pump and VCOM buffer PWR_EN = L, disable PWM, Charge pump and VCOM buffer	STV1R/STV1L	0	Gate driv	er control	signal						
F_CtrIR/F_CtrIL O Gate driver control signal (For special Gate on sequence). CABC_H/W enable pin. Normally pull.low. When CABC_EN="00", CABC_OFF, (Default mode) I When CABC_EN="10", User interface Image. When CABC_EN="10", Still Picture. When CABC_EN="10", Still Picture. When CABC_EN="10", Still Picture. When CABC_EN="10", Moving Image. DIMI I Brightness control signal. Normally pull high Backlight dimmer signal for external controller. DIMO = "0", Turn off external backlight controller DIMO = "1", Logical control signal to turn on external backlight controller NOTE: If CABC_OFF, DIMO = DIMI. Else DIMO is controlled by CABC Enable pin control function. Normally pull high PINCTL="1", Enable pin control function. NOTE: The related 3-wire control register bit control will be disabled under PINCTL="1". CSB I Serial communication chip select. Normally pull low SCL I Serial communication data input. Normally pull low SCL I Serial communication clock input. Normally pull low AVDD PI Power supply for analog circuits AGND PI Ground pins for analog circuits VDD_LVDS PI Ground pins for digital circuits VDD_LVDS PI LVDS ground POWER enable. Normally pull low PWR_EN I L, disable PWM , Charge pump and VCOM buffer PWR_EN I , enable PWM , Charge pump and VCOM buffer PWR_EN I , penable PWM , Charge pump and VCOM buffer PWR_EN I , Dewel output driver signal for the boost converter (for AVDD) DRVA O PWM output driver signal for the boost converter (for AVDD)	STV2R/STV2L	0	Gate driv	er control	signal						
CABC_EN[1:0] CABC_EN[1:0] CABC_EN[1:0] I When CABC_EN="00", CABC OFF, (Default mode) When CABC_EN="10", Still Picture. When CABC_EN="11", Moving Image. When CABC_EN="11", Moving Image. DIMI I Brightness control signal. Normally pull high Backlight dimmer signal for external controller. DIMO = "1", Logical control signal to turn on external backlight controller NOTE: If CABC_OFF, DIMO = DIMI. Else DIMO is controlled by CABC Enable pin control function. Normally pull high PINCTL PINCTL="1", Enable pin control function. NOTE: The related 3-wire control function. NOTE: The related 3-wire control register bit control will be disabled under PINCTL="1". CSB I Serial communication clata input. Normally pull low SCL I Serial communication data input. Normally pull low SCL I Serial communication clock input. Normally pull low AVDD PI Power supply for analog circuits AGND PI Ground pins for analog circuits VDD PI Power supply for digital circuits VDD PI Ground pins for digital circuits VDD LVDS PI LVDS power GND_LVDS PI LVDS ground POWER enable. Normally pull low PWR_EN = L, enable PWM, Charge pump and VCOM buffer PWR_EN = L, disable PWM, Charge pump and VCOM buffer PWR_EN = L, disable PWM, Charge pump and VCOM buffer PWR_EN = L, disable PWM, Charge pump and VCOM buffer PWR_EN = L, disable PWM, Charge pump and VCOM buffer PWR_EN = L, disable PWM, Charge pump and VCOM buffer PWR_EN = L, disable PWM, Charge pump and VCOM buffer PWR_EN = L, disable PWM, Charge pump and VCOM buffer PWR_EN = L, disable PWM, Charge pump and VCOM buffer PWR_EN = L, disable PWM, Charge pump and VCOM buffer PWR_EN = L, disable PWM, Charge pump and VCOM buffer PWR_EN = L, disable PWM, Charge pump and VCOM buffer PWR_EN = L, disable PWM, Charge pump and VCOM buffer	STBNR/STBNL	0	Gate driv	er control	signal						
CABC_EN[1:0] When CABC_EN="01", User interface Image: When CABC_EN="101", User interface Image: When CABC_EN="101", User interface Image: When CABC_EN="111", Moving Image. DIMI I Brightness control signal. Normally pull high Backlight dimmer signal for external controller. DIMO DIMO = "01", Turn off external backlight controller DIMO = "11", Legical control signal to turn on external backlight controller NOTE: If CABC OFF, DIMO = DIMI. Else DIMO is controlled by CABC Enable pin control function. Normally pull high PINCTL="0", Disable pin control function. PINCTL="1": Enable pin control function. NOTE: The related 3-wire control register bit control will be disabled under PINCTL="1". CSB I Serial communication chip select. Normally pull low SCL I Serial communication data input. Normally pull low AVDD PI Power supply for analog circuits VDD PI Ground pins for analog circuits VDD PI Power supply for digital circuits GND PI Ground pins for digital circuits VDD LVDS PI LVDS power GND_LVDS PI LVDS ground POWER enable. Normally pull low PWR_EN = L, disable PWM, Charge pump and VCOM buffer PWR_EN = L, disable PWM, Charge pump and VCOM buffer FBA VI PWM controller feedback input. (for AVDD) DRVA O PWM output driver signal for the boost converter (for AVDD) FBH VI Charge Pump controller feedback input. (for VGH)	F_CtrlR/F_CtrlL	0				equence).					
CABC_EN[1:0] I When CABC_EN="01", User interface Image: When CABC_EN="10", Still Picture. When CABC_EN="11", Moving Image. DIMI I Brightness control signal. Normally pull high Backlight dimmer signal for external controller. DIMO DIMO = "0", Turn off external backlight controller DIMO = "1", Logical control signal to turn on external backlight controller NOTE: If CABC OPT, DIMO = DIMI. Else DIMO is controlled by CABC Enable pin control function. Normally pull high PINCTL="1", Enable pin control function. NOTE: The related 3-wire control register bit control will be disabled under PINCTL="1". CSB I Serial communication chip select. Normally pull low SCL I Serial communication data input. Normally pull low SCL I Serial communication clock input. Normally pull low AVDD PI Power supply for analog circuits AGND PI Ground pins for analog circuits GND PI Ground pins for digital circuits VDD_LVDS PI LVDS power GND_LVDS PI LVDS ground POWER enable. Normally pull low PWR_EN I PWR_EN = H, enable PWM, Charge pump and VCOM buffer PWR_EN = L, disable PWM, Charge pump and VCOM buffer PWR_EN = L, disable PWM, Charge pump and VCOM buffer PWR_EN = L, disable PWM, Charge pump and VCOM buffer PWM controller feedback input. (for VVDD) DRVA O PWM output driver signal for the boost converter (for AVDD) FBH VI Charge Pump controller feedback input. (for VGH)											
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FBA VI PWM controller feedback input. (for AVDD) DRVA O PWM output driver signal for the boost converter (for AVDD) FBH VI Charge Pump controller feedback input. (for VGH)	PWR_EN	1	PWR_EN	l = H , ena	ble PWM , Charge pump and	VCOM buffer					
DRVA O PWM output driver signal for the boost converter (for AVDD) FBH VI Charge Pump controller feedback input. (for VGH)			•								
DRVA O PWM output driver signal for the boost converter (for AVDD) FBH VI Charge Pump controller feedback input. (for VGH)	FBA	VI									
FBH VI Charge Pump controller feedback input. (for VGH)		_		· , , , , , , , , , , , , , , , , , , ,							
				• • • • • • • • • • • • • • • • • • • •							
=	DRVH	0									
FBL VI Charge Pump controller feedback input. (for VGL)				•		· · · · · · · · · · · · · · · · · · ·					



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DRVL	0	Charge Pump driver signal for the boost converter (for VGL)
DRVL_B	0	Inverse of DRVL(for VGL)
VCOMI	I	VCOM buffer in
VCOMO	0	VCOM buffer out
SO1~SO1536	0	Source Driver Output Signals.
301~301330		All outputs will be of unknown values under stand-by mode.
COM1_IN	s	Internal link together between input side and output side
COM1_OUT	3	Internal link together between input side and output side.
COM2_IN	s	Internal link together between input side and output side
COM2_OUT	3	Internal link together between input side and output side.
TP	Т	Test pin for Novatek only. Float these pins for normal operation.
		IC Shielding pads.
SHIELDING	SH	Those pins are internally connected to the AGND.
		DO NOT connect to any WOA on the panel.
		Data Bus Shielding pad.
DASHD		Those pins are internally connected to the GND.
		RECOMMAND to add shielding lines on the FPC to reduce EMI.
DUM	D	Dummy pads.
DOW	ן ט ן	Those pins are floating pads.

Note:

I: Input, O: Output, P: Power, D: Dummy, S: Shorted line, M: Mark, PI: Power input, PO: Power output,

T: Testing, SH; Shielding, I/O: Input / Output, PS: Power Setting, C: Capacitor pin.

NT51008 Pass Line Description:

Pass Line No:	Pad Name						
1	COM1_IN	COM1_OUT					
2	COM2_IN	COM2_OUT					

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Value of Wiring Resistance

The recommended wiring resistance values are shown below. The wiring resistance values affect the current capacity of the power supply, so be sure to design using values that do not exceed those recommended.

Pin Name	Wiring resistance value(Ω)	Pin Name	Wiring resistance value(Ω)
AVDD	<5	RES0	<100
AGND	<5	RES1	F100
VDD	<5	SHLR	₹100
GND	<5	UPDN	100
V1~V14	<5	BIST	₹100
DRVx	<5	MODE	<100
FBx	5	DCLKPOL	<100
VCOMI	<5 C	DIMO	<100
VCOMO	<5	IFSEL	<100
D00~D07	<5	F_Ctrlx	<500
D10~D17	<5	OEVx	<500
D20~D27	<5	UDx	<500
DCLK	<5	CKVx	<500
NINC	<5	STV1x	<500
VSD	<20	STV2x	<500
HSD	<20	STBNx	<500
DEN	<20		
GRB	<100		
STBYB	<100		
DITHER	<100		

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3-Wire Serial Port Interface

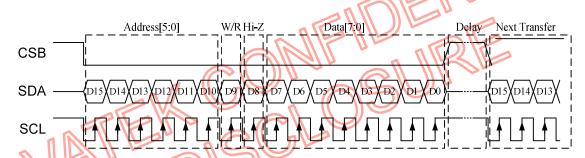
1. 3-Wire Command Format

NT51008 use the 3-wire serial port as communication interface for all the function and parameter setting. 3-Wire communication can be bi-directional controlled by the "R/W" bit in address field. NT51008 3-Wire engine act as a "slave mode" for all the time, and will not issue any command to the 3-Wire bus itself.

Under read mode, 3-Wire engine will return the data during "Data phase". The returned data should be latched at the rising edge of SCL by external controller. Data in the "Hi-Z phase" will be ignored by 3-Wire engine during write operation, and should be ignored during read operation also. During read operation, external controller should float SDA pin under "Hi-Z phase" and "Data phase".

Each Read/Write operation should be exactly 16 bit. To prevent from incorrect setting of the internal register, any write operation with more or less than 16 bit data during a CSB Low period will be ignored by 3-Wire engine.

For prevent from incorrect setting of the internal register. Please refer to the section of "3-Wire Timing Diagram" for the detail timing.



3-Wire Command Format:

Bit	Description
D15-D10	Register Address [5:0].
D9	W/R control bit. "0" for Write; "1" for Read
D8	Hi-Z bit during read mode. Any data within this bits will be ignored during write mode
D7-D0	Data for the W/R operation to the address indicated by Address phase

3-Wire Writer Format:

MSB															LSB
D15	D14	D13	D12	D11	D10	D9	D8	D7	D6	D5	D4	D3	D2	D1	D0
Register Address [5:0]						0	Χ		DA	ΓΑ (Iss	ue by e	xternal	contro	ller)	

3-Wire Read Format:

MSB															LSB
D15	D14	D13	D12	D11	D10	D9	D8	D7	D6	D5	D4	D3	D2	D1	D0
Register Address [5:0]						1	Hi-Z		D	ATA (Is	sue by	3-Wire	e engin	e)	

2. 3-Wire Control Registers

Following table list all the 3-Wire control registers and bit name definition for NT51008. Refer to the next section for detail register function description, please.

Setting of all the 3-Wire registers will take effect at the coming falling edge of VSD except GRB and STB bit.



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R0: System Control Register

Designation	Address	Description					
MODE	R0[0]	DE / SYNC mode select. MODE="0", HSD/VSD mode. MODE="1", DE mode. (Default)					
DCLKPOL	R0[1]	DCLK polarity control bit. DCLKPOL="0": Data sampling at DCLK falling edge. (Default) DCLKPOL="1": Data sampling at DCLK rising edge.					
GRB	R0[2]	Global reset bit. GRB="0", The controller is in reset state. GRB="1", Normal operation. (Default)					
STBYB	R0[3]	Standby mode selection bit. STBYB="0", Timing control, driver and DC-DC converter, are off, and all outputs are High-Z. STBYB="1", Normal operation. (Default)					
UPDN	R0[4]	G Gate Up or Down scan control. UPDN = "0", STV2 output vertical start pulse and UD pin output logical "0" to Gate driver. (Default) UPDN = "1", STV1 output vertical start pulse and UD pin output logical "1" to Gate driver.					
SHLR	R0[5]	Right/Left sequence control of source driver. SHLR="0", Shift left: Last data=S1<-S2<-S3 <-S960=First data. SHLR="1", Shift right: First data=S1->S2->S3>S960=Last data. (Default)					
PWR_EN	R0[6] R0[7]	Reserved POWER enable. PWR_EN = H, enable PWM, Charge pump and VCOM buffer PWR_EN = L, disable PWM, Charge pump and VCOM buffer (Default)					
MON	ATE						



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R1: System Control Register

Designation	Address	Description
		Reserved
RES[1:0]	R1[2:1]	Display resolution selection. RES[1:0] = "01", for 1024(RGB)*768 display resolution(dual or cascade) RES[1:0] = "00", for 1024(RGB)*600 display resolution(dual or cascade) (Default) RES[1:0] = "10", for 800(RGB)*600 display resolution(dual or cascade) (601~936 channel disable) RES[1:0] = "11", for 800(RGB)*480 display resolution(dual or cascade) (601~936 channel disable)
BIST	R1[3]	Normal Operation/BIST pattern select. BIST = H : BIST(DCLK input is not needed) BIST = L : Normal Operation (Default)
DITHER	R1[4]	Dithering function enable control. DITHER = "1", Enable internal dithering function DITHER = "0", Disable internal dithering function (Default)
HFRC	R1[5]	H-FRC selection. HFRC = H : H-FRC enable HFRC = L : FRC enable (Default) If DITHER = "0", disable dithering function(H-FRC and FRC disable)
CABC_EN[1:0]	R1[7:6]	CABC H/W enable pin. Normally pull low. When CABC_EN="00", CABC OFF. (Default mode) When CABC_EN="01", User interface Image. When CABC_EN="10", Still Picture. When CABC_EN="11", Moving Image.
MON	ATE	

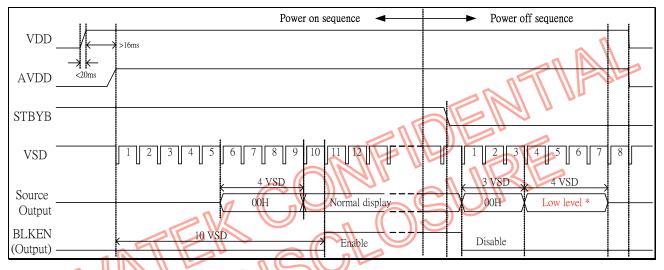


Function Description

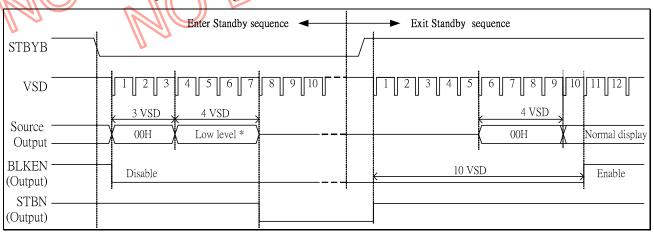
1. Power On/Off Sequence

In order to prevent IC from power on reset fail, the rising time (T_{POR}) of the digital power supply VDD should be maintained within the given specifications. Refer to "AC Characteristics" for more detail on timing.

Power-On/Off Timing Sequence:



Enter and Exit Standby Mode Sequence:



*Note: Low level = 3FH, when NBW = L (Normally white) Low level = 00H, when NBW = H (Normally black)

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2. Input Data VS Output Channels

1. DUAL="0"

(1) SHLR="1", right shift

Output	SO1	SO2	SO3		SO1534	SO1535	SO1536
Order		First data		\rightarrow		Last data	
Odd Line	D07~D00	D17~D10	D27~D20		D07~D00	D17~D10	D27~D20
Even Line	D07~D00	D17~D10	D27~D20		D07~D00	D17~D10	D27~D20

(2) SHLR="0", left shift

, 							
Output	SO1	SO2	SO3		SO1534	SO1535	SO1536
Order	Last data			←		First data	
Odd Line	D07~D00	D17~D10	D27~D20		D07~D00	D17~D10	D27~D20
Even Line	D07~D00	D17~D10	D27~D20		D07~D00	D17~D10	D27~D20

2. DUAL="1"

(1) SHLR="1", right shift

1) <u> </u>	, rigint ormit						
Output	SO1	SO2	SO3		SO1534	SO1535	SO1536
Order		First data		→		Last data	
Odd Line /Gn	D07~D00	D27~D20	D17~D10		D07~D00	D27~D20	D17-D10
Odd Line /Gn+1	D17~D10	D07~D00	D27~D20	(-)	D17~D10	D07~D00	D27~D20
Even Line /Gn	D07~D00	D27~D20	D17-D10) =	D07~D00	D27~D20	D17~D10
Even Line /Gn+1	D17~D10	D07~D00	D27~D20		D17~D10	D07~D00	D27~D20
2) SHLR="0",	left shift			3			

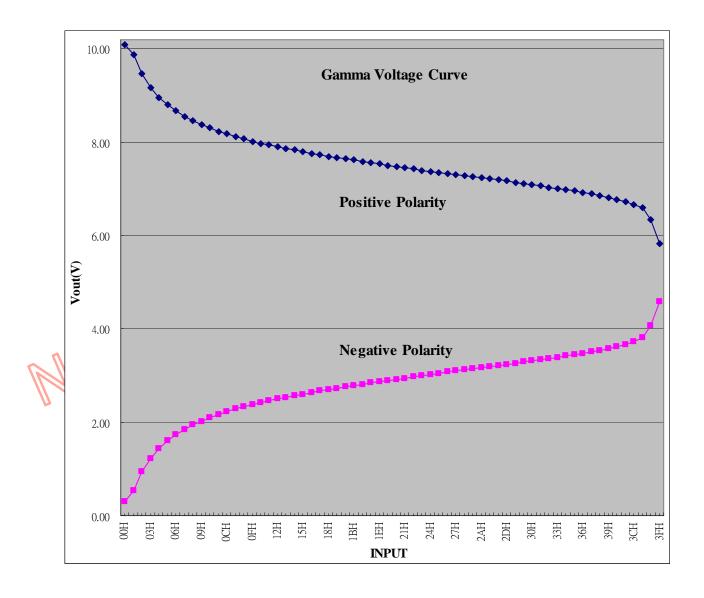
) SHILK = U,	ieir Stiirt						
Output	SO1	SO2	SO3		SO1534	SO1535	SO1536
Order)	Last data		+		First data	
Odd Line /Gn	D07~D00	D27~D20	D17~D10		D07~D00	D27~D20	D17~D10
Odd Line /Gn+1	D17~D10	D07~D00	D27~D20		D17~D10	D07~D00	D27~D20
Even Line /Gn	D07~D00	D27~D20	D17~D10		D07~D00	D27~D20	D17~D10
Even Line /Gn+1	D17~D10	D07~D00	D27~D20		D17~D10	D07~D00	D27~D20



3. Input Data VS Output Voltage

The figure below shows the relationship between the input data and the output voltage. Refer to the following pages for the relative resistor values and voltage calculation method.

Gamma Tables very for each customer. Contact Novatek for more detail information.



Remark:

 $AVDD-1 \ge V1 \ge V2 \ge V3 \ge V4 \ge V5 \ge V6 \ge V7$; $V8 \ge V9 \ge V10 \ge V11 \ge V12 \ge V13 \ge V14 \ge AGND+0.1V$



4. Input Data and Output Voltage Reference Table

Note: Gamma Tables vary for each custom. Contact Novatek for more detailed information.

@AVDD=10.4V

Chip Version	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	V11	V12	V13	V14	[unit]
NT51008	10.003	9.783	7.945	7.487	7.161	6.597	6.073	4.869	4.327	3.38	2.895	2.362	0.432	0.207	V

Negative Polarity

Data	Negative F	Polarity
3FH	AVDD X	0.468
3EH	AVDD X	0.416
3DH	AVDD X	0.389
3CH	AVDD X	0.379
3BH	AVDD X	0.372
3AH	AVDD X	0.366
39H	AVDD X	0.36
38H	AVDD X	0.355
37H	AVDD X	0.35
36H	AVDD X	0.346
35H	AVDD X	0.342
34H	AVDD X	0.339
33H	AVDD X	0.335
32H	AVDD X	0.332
31H	AVDD X	0.328
30H	AVDD X	0.325
2FH	AVDD X	0.322
2EH	AVDD X	0.319
2DH	AVDD X	0.316
2CH	AVDD X	0.313
2BH	AVDD X	0.31
2BH	AVDD X	0.31

Data	Negative Polarity
2AH	AVDD X 0.308
29H	AVDD X 0.305
28H	AVDD X 0.302
27H	AVDD X 0.299
26H	AVDD X 0.297
25H	AVDD X 0.294
24H	AVDD X 0.291
23H	AVDD X 0.288
22H	AVDD X 0.284
21H	AVDD X 0.281
20H	AVDD X 0.278
1FH	AVDD X 0.276
1EH	AVDD X 0.273
1DH	AVDD X 0.271
1CH	AVDD X 0.268
1BH	AVDD X 0.265
1AH	AVDD X 0.262
19H	AVDD X 0.259
18H	AVDD X 0.256
17H	AVDD X 0.253
16H	AVDD X 0.25

Data	Negative Polarity
15H	AVDD X 0.246
14H	AVDD X 0.243
13H	AVDD X 0.239
12H	AVDD X 0.235
11H	AVDD X 0.231
10H	AVDD X 0.227
0FH	AVDD X 0.222
0EH	AVDD X 0.218
0DH	AVDD X 0.213
0CH	AVDD X 0.207
0BH	AVDD X 0.201
0AH	AVDD X 0.194
09H	AVDD X 0.187
H80	AVDD X 0.179
07H	AVDD X 0.17
06H	AVDD X 0.159
05H	AVDD X 0.146
04H	AVDD X 0.13
03H	AVDD X 0.109
02H	AVDD X 0.081
01H	AVDD X 0.042
00H	AVDD X 0.02



Positive Polarity

Data	Positive Polarity
00H	AVDD X 0.962
01H	AVDD X 0.941
02H	AVDD X 0.903
03H	AVDD X 0.875
04H	AVDD X 0.856
05H	AVDD X 0.84
06H	AVDD X 0.828
07H	AVDD X 0.817
08H	AVDD X 0.808
09H	AVDD X 0.801
0AH	AVDD X 0.794
0BH	AVDD X 0.788
0CH	AVDD X 0.782
0DH	AVDD X 0.777
0EH	AVDD X 0.772
0FH	AVDD X 0.768
10H	AVDD X 0.764
MH	AVDD X 0.76
12H	AVDD X 0.757
13H	AVDD X 0.753
14H	AVDD X 0.75

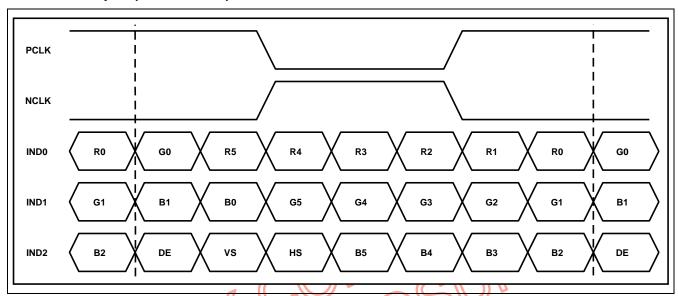
Data	Positive Polarity
15H	AVDD X 0.747
16H	AVDD X 0.744
17H	AVDD X 0.741
18H	AVDD X 0.739
19H	AVDD X 0.736
1AH	AVDD X 0.733
1BH	AVDD X 0.731
1CH	AVDD X 0.728
1DH	AVDD X 0.726
1EH	AVDD X 0.724
1FH	AVDD X 0.722
20H	AVDD X 0.72
21H	AVDD X 0.718
22H	AVDD X (0.716
23H	AVDD X 0.713
24H	AVDD X 0.711
25H	AVDD X 0.708
26H	AVDD X 0.706
27H	AVDD X 0.705
28H	AVDD X 0.703
29H	AVDD X 0.701

Data	Positive Polarity
2AH	AVDD X 0.699
2BH	AVDD X 0.697
2CH	AVDD X 0.695
2DH	AVDD X 0.694
2EH	AVDD X 0.692
2FH	AVDD X 0.69
30H	AVDD X 0.689
31H	AVDD X 0.687
32H	AVDD X 0.685
33H	AVDD X 0.683
34H	AVDD X 0.682
35H	AVDD X 0.68
36H	AVDD X 0.678
37H	AVDD X 0.676
38H	AVDD X 0.674
39H	AVDD X 0.672
ЗАН	AVDD X 0.669
3BH	AVDD X 0.666
3CH	AVDD X 0.662
3DH	AVDD X 0.656
3EH	AVDD X 0.634
3FH	AVDD X 0.584
3FH	AVDD X 0.584

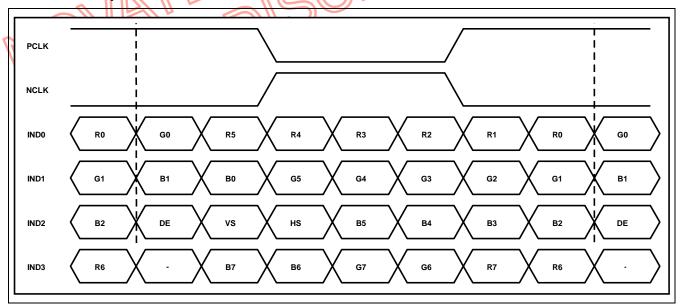


Data Input Format for LVDS

6bit LVDS input (DITHER='L')



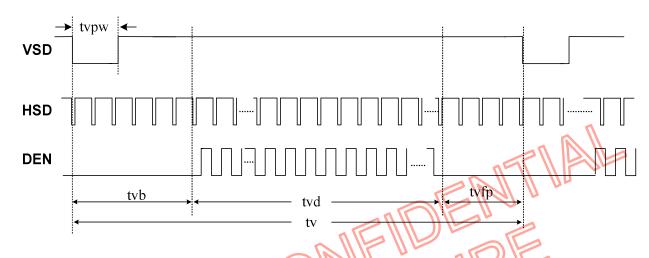
8-bit LVDS input



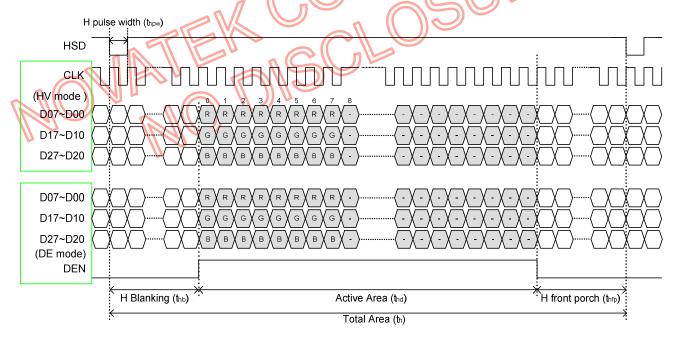


Data Input Format for TTL

Vertical input timing



Horizontal input timing





Parallel RGB input timing table

For 1024x768 panel

DE mode

DE IIIOGO		-			
Parameter	Symbol		Value		Unit
Farameter	Syllibol	Min.	Тур.	Max.	Offic
DCLK frequency @	fclk	52	65	71	MHz
Frame rate = 60Hz	TOIR				1411 12
Horizontal display	thd		1024		DCLK
area	thd		1024		DCLK
HSYNC period time	th	1114	1344	1400	DCLK
HSYNC blanking	thb+thfp	90	320	376	DCLK
Vertical display area	tvd		768	•	Н
VSYNC period time	tv	778	806	845	Н
VOVNO blankia n	4.4.4.4.	40	20	77	
VSYNC blanking	tvb+tvfp	10	38	77	Н
			I		
				~ "	
HV mode				$ \mathcal{U}A _E$	III u
Horizontal input timir	ng			11/1/2	70
Parameter	Symbol		Value		Unit
Horizontal display	*67		1024	\overline{n}	DCI K

HV mode

	Parai	meter	Symbol		Value		Unit
		al display ea	thd		1024		DCLK
	DCLK free	quency @	fclk	Min.	Тур.	Max.	
	Frame ra	te = 60Hz	ICIK	57	65	70.5	MHz
1	1 Horizo	ntal Line	() th	1200	1344	1400	
	HSYNC	Min.					
	pulse	Тур.	thpw		DCLK		
	width	Max.			DCLK		
	HSYNC	blanking	thb	160	160	160	
	HSYNC fi	ront porch	thfp	16	160	216	

Parameter	Symbol		Unit		
Parameter	Syllibol	Min.	Тур.	Max.	Ullit
Vertical display area	tvd		768		Н
VSYNC period time	tv	792	806	840	Н
VSYNC pulse width	tvpw	1	-	20	Н
VSYNC Blanking (tvb)	tvb	23	23	23	Н
VSYNC Front porch (tvfp)	tvfp	1	15	49	Н



For 1024x600 panel

DE mode

Parameter	Symbol		Unit		
Parameter	Symbol	Min.	Тур.	Max.	Offic
DCLK frequency @ Frame rate = 60Hz	fclk	40.8	51.2	67.2	MHz
Horizontal display area	thd		DCLK		
HSYNC period time	th	1114	1344	1400	DCLK
HSYNC blanking	thb+thfp	90	320	376	DCLK
Vertical display area	tvd		600		Н
VSYNC period time	tv	610	635	800	Н
VSYNC blanking	tvb+tvfp	10	35	200	Н

HV mode

	HSYNC	blanking	thb+thfp	90	320	376	DCLK
	Vertical di	splay area	tvd		600		Н
Ī		eriod time	tv	610	635	800	Н
	VSYNC	blanking	tvb+tvfp	10	35	200	Н
	HV mode Horizontal	input timir	ng			M	
	Parar	neter	Symbol		Value		Unit
	Horizonta are	al display ea	thd		1024		DCLK
	DCLK free	quency @	11.15	Min.	Тур.	Max.	
		te = 60Hz	fclk	44.9	51.2	63	MHz
	1 Horizo	ntal Line	th	1200	1344	1400	
	HSYNC	Min.			1		
	pulse	Тур.	thpw		-		DCLK
	width	Max.			140		DOLK
	HSYNC	blanking	thb	160	160	160	
	HSYNC fr	ont porch	thfp	16	160	216	

Parameter	Symbol		Unit			
Parameter	Syllibol	Min.	Тур.	Max.	Oill	
Vertical display area	tvd		600		Н	
VSYNC period time	tv	624	635	750	Ι	
VSYNC pulse width	tvpw	1	-	20	Ι	
VSYNC Blanking (tvb)	tvb	23	23	23	П	
VSYNC Front porch (tvfp)	tvfp	1	12	127	Н	



For 800x600 panel

DE mode

Parameter	Symbol		Unit			
Parameter	Syllibol	Min.	Тур.	Ollit		
DCLK frequency @ Frame rate = 60Hz	fclk	32.6 39.6		62.4	MHz	
Horizontal display area	thd		800			
HSYNC period time	th	890	1000	1300	DCLK	
HSYNC blanking	thb+thfp	90	200	500	DCLK	
Vertical display area	tvd		600		Н	
VSYNC period time	tv	610	660	800	Н	
VSYNC blanking	tvb+tvfp	10	60	200	Н	

Ĺ	HSYNC	blanking	thb+thfp	90	200	500	DCLK
ſ	Vertical di	splay area	tvd		600		Н
Į	VSYNC p	eriod time	tv	610	660	800	Н
	VSYNC	blanking	tvb+tvfp	10	60	200	Н
	HV mode Horizontal	input timir	ng		6	M	
	Parar	meter	Symbol		Value		Unit
	Horizonta are	al display ea	thd		800		DCLK
	DCLK free	quency @	falls	Min.	Тур.	Max.	
	Frame rat	te = 60Hz	fclk	34.5	39.6	50.4	MHz
	1 Horizo	ntal Line	th	900	1000	1200	
1	HSYNC	Min.			1		
	pulse	Тур.	thpw		-		DCLK
	width	Max.	U		40		DOLK
	HSYNC	blanking	thb	88	88	88	
	HSYNC fr	ront porch	thfp	12	112	312	

Parameter	Symbol		Unit			
Parameter	Symbol	Min.	Тур.	Max.	Oill	
Vertical display area	tvd		600			
VSYNC period time	tv	640	660	700	Н	
VSYNC pulse width	tvpw	1	-	20	Ι	
VSYNC Blanking (tvb)	tvb	39	39	39	Н	
VSYNC Front porch (tvfp)	tvfp	1	21	61	Н	



For 800x480 panel

DE mode

Parameter	Symbol			Unit		
Farameter	Syllibol	Min.	Тур.	Max.	Offic	
DCLK frequency @ Frame rate = 60Hz	fclk	26.2 29.2		54.6	MHz	
Horizontal display area	thd		800			
HSYNC period time	th	890	928	1300	DCLK	
HSYNC blanking	thb+thfp	90 128		500	DCLK	
Vertical display area	tvd		480		Ι	
VSYNC period time	tv	490	525	700	Η	
VSYNC blanking	tvb+tvfp	10	45	220	I	

HSYNC	blanking	thb+thfp	90	128	500	DCLK
Vertical dis	splay area	tvd		480		Н
VSYNC p	eriod time	tv	490	525	700	Н
VSYNC	blanking	tvb+tvfp	10	45	220	Н
HV mode Horizontal	input timin	ng		6	all	
Parar	neter	Symbol		Value		Unit
Horizonta are	al display ea	thd		800	ا م	DCLK
DCLK free	quency @	11.11	Min.	Тур.	Max.	
	te = 60Hz	fclk	27.7	29.2	39.6	MHz
1 Horizo	ntal Line	th	900	928	1100	
HSYNC	Min.	$\mathcal{I}((\cdot))$		1		
pulse	Тур.	thpw		-		DCLK
width	Max.	U		40		DOLK
HSYNC	blanking	thb	88	88	88	
HSYNC fr	ont porch	thfp	12	40	212	

Doromotor	Symbol		Unit			
Parameter	Symbol	Min.	Тур.	Max.	Ollic	
Vertical display area	tvd		480		Н	
VSYNC period time	tv	513	525	600	Н	
VSYNC pulse width	tvpw	1	-	3	Ι	
VSYNC Blanking (tvb)	tvb	32	32	32	Н	
VSYNC Front porch (tvfp)	tvfp	1	13	88	Н	



Absolute Maximum Ratings

	MIN.	MAX.	UNIT
Logic supply voltage, VDD Digital input voltage	-0.5	5	V
Analog supply voltage, AVDD Gamma voltage , V1~V14 OUT1 ~ OUT1536	-0.5	15	V

TEMPREATURE

	MIN.	MAX.	UNIT
Operating temperature	1-20	85	ç
Storage temperature	-55	125	°C

Stresses above those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. These are stress ratings only. Functional operation of this device at these or under any other conditions above those indicated in the operational sections of this specification is not implied and exposure to absolute maximum rating conditions for extended periods may affect device reliability.

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DC Electrical Characteristics

(VDD= 2.3 to 3.6V, AVDD= 6.5 to 13.5V, GND=AGND= 0V, TA= -20 to +85°C)

TTL mode

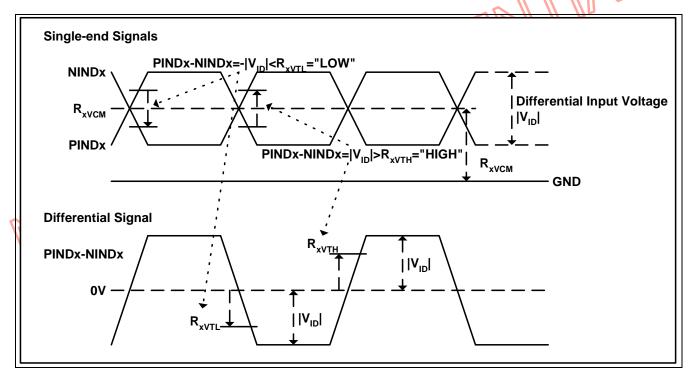
Parameter Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Low level input voltage	Vil	0	-	0.3xVDD	V	For the digital circuit
High level input voltage	Vih	0.7xVD D	ı	VDD	>	For the digital circuit
Input leakage current	li	•	ı	<u>+</u> 1	μΑ	For the digital circuit
High level output voltage	Voh	VDD-0. 4	-	-	V	Ioh= -400μA
Low level output voltage	Vol	-	-	GND+0.4	V	Iol= +400μA
Pull low/high resistor	Ri	200K	250K	300K	ohm	For the digital input pin @ VDD=3.3V
Digital Operation current	ldd	-	8 (TBD)	10 (TBD)	mA	Fclk=65 MHz, FLD=50KHz, VDD=3.3V
Digital Stand-by current	lst1	-	10 (TBD)	50 (TBD)	μΑ	Clock & all functions are stopped
Analog Operating Current	Idda	-	10 (TBD)	12 (TBD)	mA	No load, Fclk=65MHz, FLD=50KHz @ AVDD=10V,V1=8V, V14=0.4V
Analog Stand-by current	lst2	7	(TBD)	50 (TBD)	μА	No load, Clock & all functions are stopped
Input level of V1 ~ V7	Vref1	0.4* AVDD		AVDD-0.1	V	Gamma correction voltage input
Input level of V8 ~ V14	Vref2	0.1		0.6* AVDD	V	Gamma correction voltage input
Output Voltage deviation	Vod1		<u>+</u> 20	<u>+</u> 35	mV	Vo = AGND+0.1V ~ AGND+0.5V & Vo = AVDD-0.5V ~ AVDD-0.1V
Output Voltage deviation	Vod2	-	<u>+</u> 15	<u>+</u> 20	mV	Vo = AGND+0.5V ~ AVDD-0.5V
Output Voltage Offset between Chips	Voc	-	-	<u>+</u> 20	mV	Vo = AGND+0.5V ~ AVDD-0.5V
Dynamic Range of Output	Vdr	0.1	-	AVDD-0.1	V	SO1 ~ SO1536
Sinking Current of Outputs	IOLy	80	-	-	uA	SO1 ~ SO1536; Vo=0.1V v.s 1.0V , AVDD=13.5V
Driving Current of Outputs	ЮНу	80	-	-	uA	SO1 ~ SO1536; Vo=13.4V v.s 12.5V , AVDD=13.5V
Resistance of Gamma Table	Rg	0.7*Rn	1.0*Rn	1.3*Rn	ohm	Rn: Internal gamma resistor



NT51008 SPEC TFT LCD Driver with TCON

LVDS mode (Receiver Differential Input: PIND0~PIND3, NIND0~NIND3, PINC, NINC)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Differential input high threshold voltage	R _{xVTH}			+0.1	٧	R _{xVCM} =1.2V
Differential input low threshold voltage	R _{xVTL}	-0.1			٧	N _{XVCM} = 1.2 V
Input voltage range (singled-end)	R _{XVIN}	0		2.4	٧	
Differential input common mode voltage	R _{xVCM}	V _{ID} /2		2.4- V _{ID} /2	٧	
Differential input voltage	V _{ID}	0.2		0.6	V	n
Differential input leakage current	RV_{xliz}	-10		+10	uA	





NT51008 SPEC TFT LCD Driver with TCON

Power(TBD)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Base drive current for PWM	IDRV	-	-	60	mA	DRVA = 0.7V
DRV output voltage for PWM	VDRV	0	-	VDD	٧	
Feed back voltage for PWM	VFB	0.55	0.6	0.65	V	
Duty cycle maximum	Dmax	-	-	85	%	
VCOM buffer input voltage	VCOMI	1	-	AVDD	V	~ N
VCOM buffer output voltage	VCOMO	VCOMI – 0.2	VCOMI	VCOMI+	TV.	
VCOM buffer output current	IVCOM	-		70	mA	VCOMO = 5V vs 4.9V
NOVATE					RE	



AC Electrical Characteristics

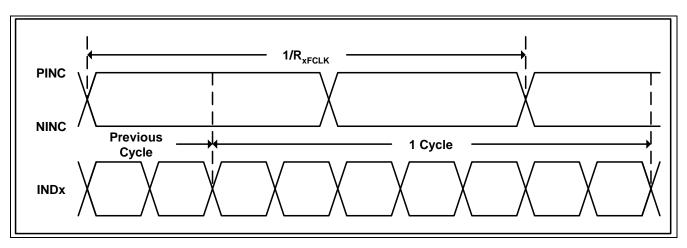
(VDD= 2.3 to 3.6V, AVDD= 6.5 to 13.5V, GND=AGND= 0V, TA= -20 to +85°C)

TTL mode

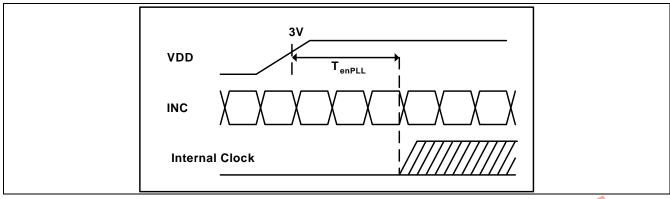
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
VDD Power On Slew rate	T _{POR}	-	-	20	ms	From 0V to 90% VDD
RSTB pulse width	T _{Rst}	50	-	-	us	DCLK = 65MHz
DCLK cycle time	Tcph	14			ns	
DCLK pulse duty	Tcwh	40	50	60	%	
VSD setup time	Tvst	5	-	-	ns	
VSD hold time	Tvhd	5	-	-	ns	
HSD setup time	Thst	5	-	-	ns	
HSD hold time	Thhd	5	-	-	ns	
Data set-up time	Tdsu	5	-	-	ns _	D0[7:0], D1[7:0], D2[7:0] to DCLK
Data hold time	Tdhd	5	-	-	ns	D0[7:0], D1[7:0], D2[7:0] to DCLK
DE setup time	Tesu	5	-		ns	
DE hold time	Tehd	5	-0		ns	
Output stable time	Tsst 📶			6	Cus.\	10% to 90% target voltage. CL=90pF, R=10K ohm
				3		(Cascade) Dual gate

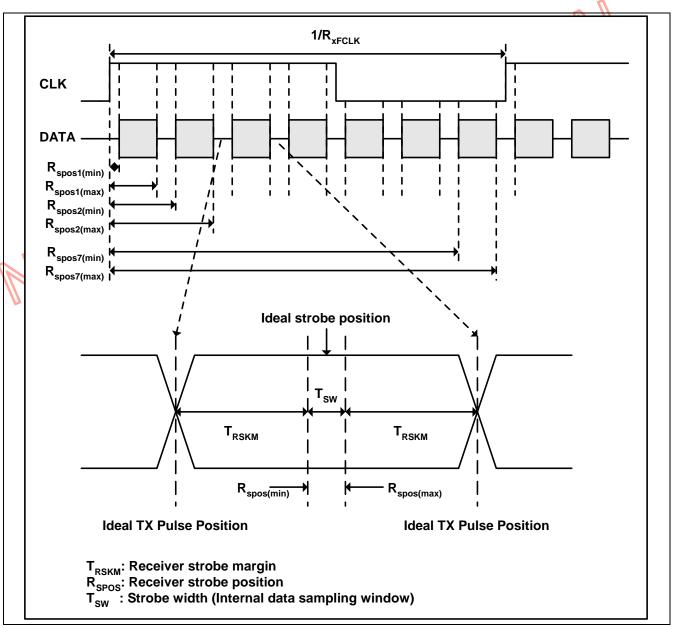
LVDS mode

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Clock frequency	R _{xFCLK}	20		71	MHz	
1						V _{ID} = 400mV
Input data skew margin	T _{RSKM}	500			pS	$R_{\text{xVCM}} = 1.2V$
						$R_{xFCLK} = 71 \text{ MHz}$
Output clock duty	T _{CODUTY}		50		%	
PLL wake-up time	T _{enPLL}			150	uS	





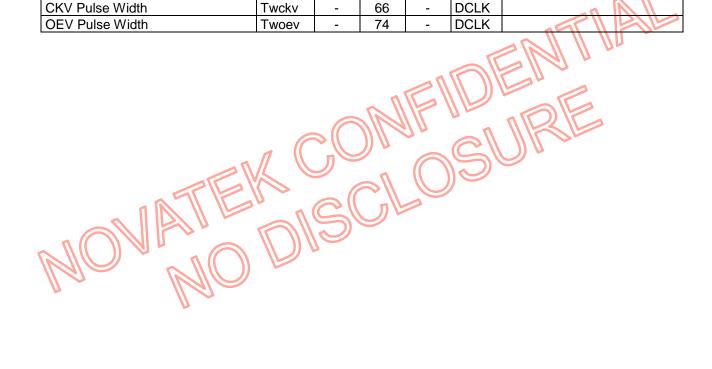






Output Timing Table

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
DCLK Frequency	Fclk	-	65	71	MHz	VDD = 2.3V ~3.6V
DCLK Cycle Time	Tclk	14.1	15.4	-	ns	
DCLK Pulse Duty	Tcwh	40	50	60	%	Tclk
Time from HSD to Source Output	Thso	-	64	-	DCLK	
Time from HSD to LD	Thld	-	64	-	DCLK	
Time from HSD to STV	Thstv	-	2	-	DCLK	
Time from HSD to CKV	Thckv	-	20	-	DCLK	
Time from HSD to OEV	Thoev	-	4	-	DCLK	
LD Pulse Width	Twld	-	10	-	DCLK	7
CKV Pulse Width	Twckv	-	66	-	DCLK	0 1 1
OEV Bulco Width	Twoov		7/		DCLK	

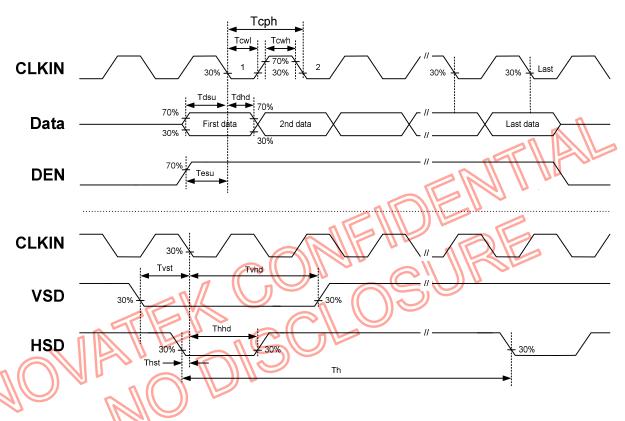


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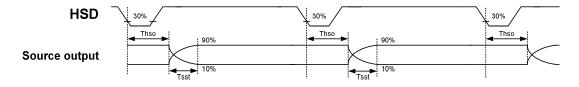


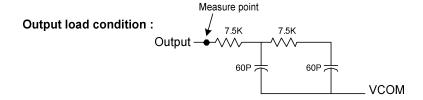
Timing Diagram

1. Input Clock and Data Timing Diagram



2. Source Output Timing Diagram (Cascade)

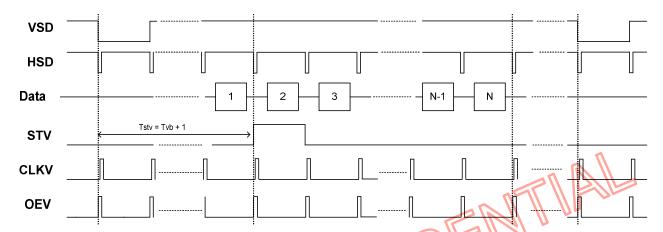




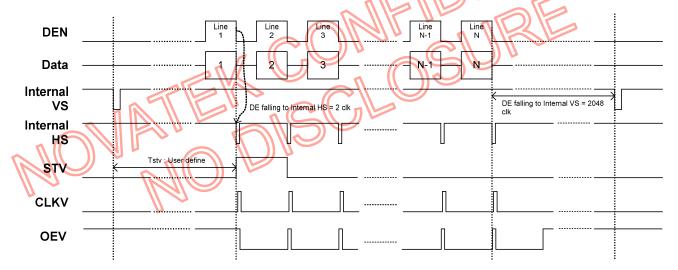
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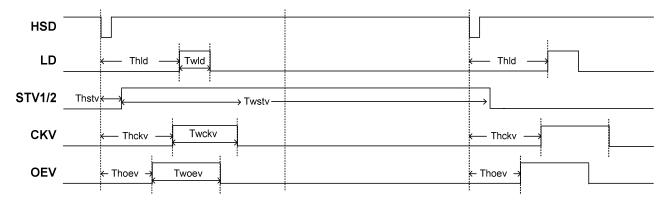
3. Vertical Timing Diagram HV (Cascade)



4. Vertical Timing Diagram DE (Cascade)

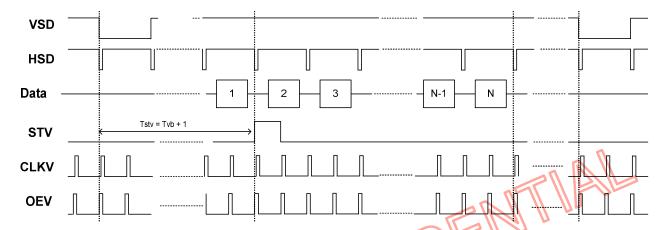


5. Gate output timing diagram (Cascade)

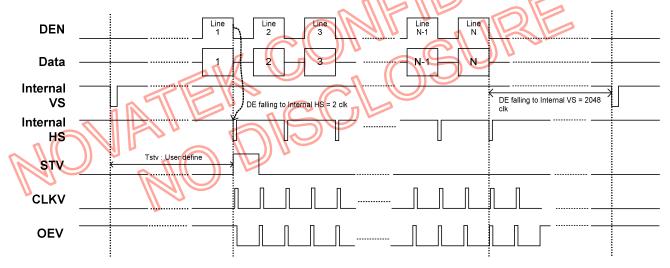




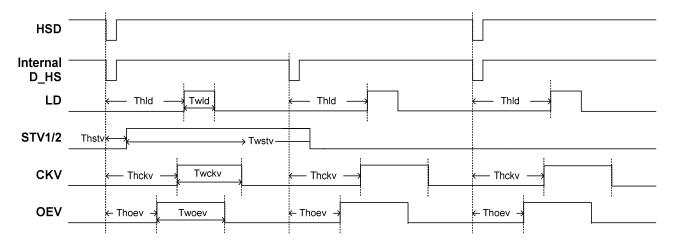
6. Vertical Timing Diagram HV (Dual Gate)



7. Vertical Timing Diagram DE (Dual Gate)



8. Gate output timing diagram (Dual Gate)

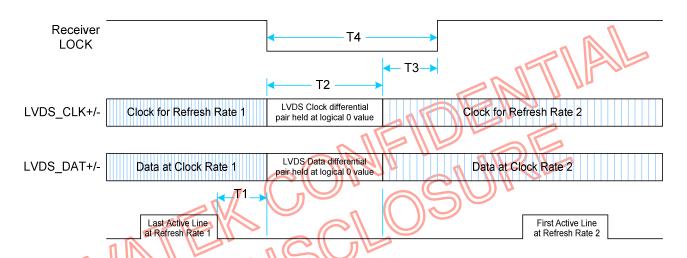




9. SDRRS timing diagram

SDRRS (seamless display refresh rate switching)

When Showing the still picture, it is accept to reduce the refresh rate from 60Hz to low refresh rate (for example 40Hz). The purpose is mainly for power saving. INTEL defined a timing chart switch between different refresh rate. Following this timing chart, the switch between different refresh rates is seamless for end user.

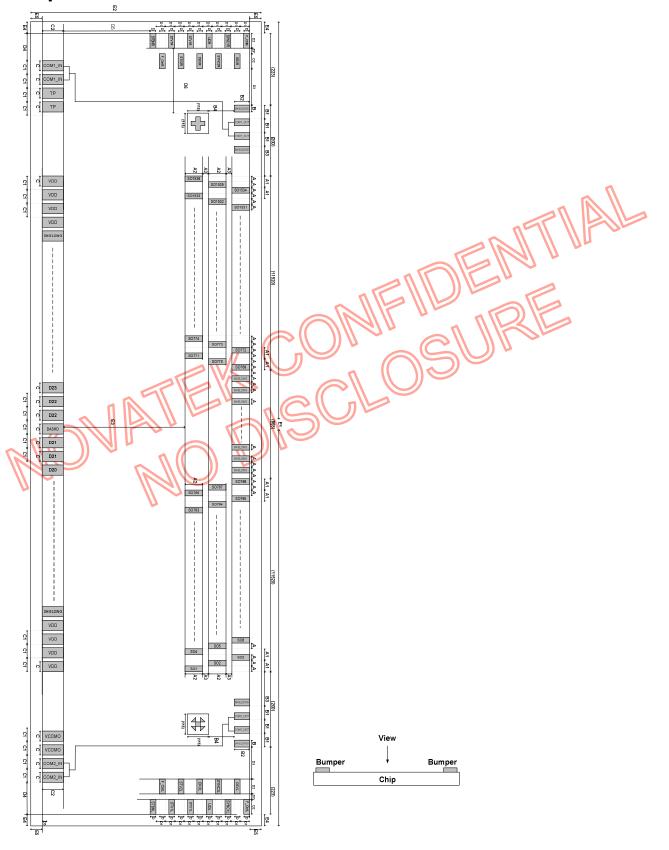


- T1 Min delay from start of vert blank to start of timing change: 2 lines (HSYNC periods)
- T2 Max delay for clock to transition to new frequency: 100us
- T3 Max receiver lock delay from stable clock: Display specific (TBD)
- T4 Max period during which panel maintains display (T2+T3): Display specific (TBD)

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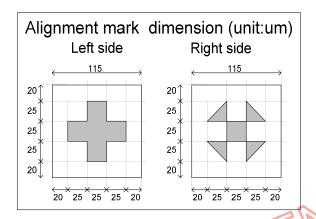


Chip Outline Dimensions





Alignment Mark



Pad Information

Symbol	Dimension (um)
Α	15
A1	30
A2	120
A3	20
R	
В	30
B1	50
B2	70
В3	50
B4	50
С	65
C1	85
C1 C2	120

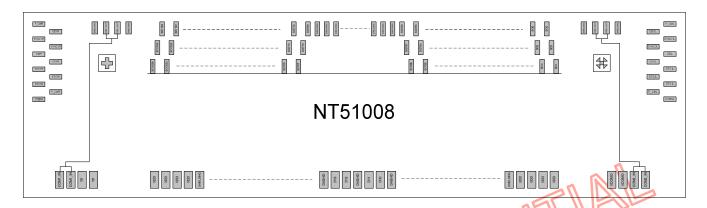
Symbol	Dimension (um)
	30
D1	40
D2	80
D3	43
D4	33
D5	36
D6	154
D7	20
E1	25000
E2	700 (TBD)*
E3	216(TBD)*
E4	57(max)
E5	57(max)

*Note: Chip dimension includes scribe line.

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Pad Coordinate



Pad	TextName	СХ	CY
1	COM1_IN	-12377.5	-233
2	COM1_IN	-12292.5	-233
3	TP	-12207.5	-233
4	TP	-12122.5	-233
5	TP	-12037.5	-233
6	TP	-11952.5	-233
7	SHIELDING	-11867.5	-233
8	AGND	-11782.5	
9	AGND 📶	-11697.5	-233
10	AGND 🔨	-11612.5	
11	AGND	-11527.5	
12	SHIELDING	11442.5	-233
13	AVDD	-11357.5	-233
14	AVDD	-11272.5	-233
15	AVDD	-11187.5	-233
16	AVDD	-11102.5	-233
17	SHIELDING	-11017.5	-233
18	GND	-10932.5	
19	GND	-10847.5	-233
20	GND	-10762.5	-233
21	GND	-10677.5	
22	SHIELDING	-10592.5	-233
23	VDD	-10507.5	
24	VDD	-10422.5	
25	VDD	-10337.5	-233
26	VDD	-10252.5	-233
27	SHIELDING	-10167.5	-233
28	TP	-10082.5	
29	TP	-9997.5	-233
30	TP	-9912.5	-233
31	TP	-9827.5	-233
32	TP	-9742.5	-233
33	TP	-9657.5	-233
34	TP	-9572.5	-233
35	TP	-9487.5	-233
36	TP	-9402.5	
37	TP	-9317.5	-233
38	TP	-9232.5	-233
39	DIMI	-9147.5	-233
40	DIMI	-9062.5	-233
41	NBW	-8977.5	-233
42	NBW	-8892.5	

43	PINCTL	-8807.5	-233
44	PINCTL	-8722.5	-233
45	SHIELDING	-8637.5	-233
46	DIMO	-8552.5	-233
47	DIMO	-8467.5	-233
48	SHIELDING	-8382.5	-233
49	DITHER	-8297.5	-233
50	DITHER	-8212.5	-233
51	HFRC	-8127.5	-233
52	HFRC	-8042.5	-233
53		-7957.5	-233
54	TR	-7872.5	-233
55	FRAME	-7787.5	-233
56	FRAME	-7702.5	-233
57	SEL[0]	-7617.5	-233
58	SEL[0]	-7532.5	-233
59	SEL[1]	-7447.5	-233
60	SEL[1]	-7362.5	-233
61	CSB	-7277.5	-233
62	CSB	-7192.5	-233
63	SHIELDING	-7107.5	-233
64	SDA	-7022.5	-233
65	SDA	-6937.5	-233
66	SHIELDING	-6852.5	-233
67	SCL	-6767.5	-233
68	SCL	-6682.5	-233
69	SHIELDING	-6597.5	-233
70	VDD	-6512.5	-233
71	VDD	-6427.5	-233
72	VDD	-6342.5	-233
73	VDD	-6257.5	-233
74	SHIELDING	-6172.5	-233
75	GND	-6087.5	-233
76	GND	-6002.5	-233
77	GND	-5917.5	-233
78	GND	-5832.5	-233
79	SHIELDING	-5747.5	-233
80	AVDD	-5662.5	-233
81	AVDD	-5577.5	-233
82	AVDD	-5492.5	-233
83	AVDD	-5407.5	-233
84	SHIELDING	-5322.5	-233
85	AGND	-5237.5	-233

86	AGND	-5152.5	-233
87	AGND	-5067.5	-233
88	AGND	-4982.5	-233
89	SHIELDING	-4897.5	-233
90	V1	-4812.5	-233
91	V1	-4727.5	-233
92	V2	-4642.5	-233
93	V2	-4557.5	-233
94	V3	-4472.5	-233
95	V3	-4387.5	-233
96	V4	-4302.5	-233
97	V4	-4217.5	-233
98	V5	-4132.5	-233
99	V5	-4047.5	-233
100	V6	-3962.5	-233
101	V6	-3877.5	-233
102	V7	-3792.5	-233
103	V7	-3707.5	-233
104	GAMH	-3622.5	-233
105	GAMH	-3537.5	-233
106	SHIELDING	-3452.5	-233
107	DASHD	-3367.5	-233
108	VSD	-3282.5	-233
109	DASHD	-3197.5	-233
110	HSD	-3112.5	-233
111	DASHD	-3027.5	-233
112	DEN	-2942.5	-233
113	GND_LVDS	-2857.5	-233
114	GND_LVDS	-2772.5	-233
115	GND_LVDS	-2687.5	-233
116	GND_LVDS	-2602.5	-233
117	D27	-2517.5	-233
118	D26	-2432.5	-233
119	DASHD	-2347.5	-233
120	D25	-2262.5	-233
121	D24	-2177.5	-233
122	DASHD	-2092.5	-233
123	D23	-2007.5	-233
124	D22	-1922.5	-233
125	DASHD	-1837.5	-233
126	D21	-1752.5	-233
127	D20	-1667.5	-233
128	DASHD	-1582.5	-233



129			
123	DCLK	-1497.5	-233
130	NINC	-1412.5	-233
131	DASHD	-1327.5	-233
	VDD_LVDS		
132		-1242.5	-233
133	VDD_LVDS	-1157.5	-233
134	VDD_LVDS	-1072.5	-233
135	VDD LVDS	-987.5	-233
136	REV	-902.5	-233
	DASHD		
137		-817.5	-233
138	D17	-732.5	-233
139	D16	-647.5	-233
140	DASHD	-562.5	-233
141	D15	-477.5	-233
142	D14	-392.5	-233
143	DASHD	-307.5	-233
144	D13	-222.5	-233
145	D12	-137.5	-233
146	DASHD	-52.5	-233
147	D11	32.5	-233
148	D10	117.5	-233
149	DASHD	202.5	-233
150	D07	287.5	-233
151	D06	372.5	-233
152	DASHD	457.5	-233
153	D05	542.5	-233
154	D04	627.5	-233
155	DASHD	712.5	-233
	_		
156	D03	797.5	-233
157	D02	882.5	-233
158	DASHD	967.5	-233
159	D01	1052.5	-233
160	D00	1137.5	-233
161	DASHD	1222.5	-233
162	SHIELDING [1207 E	222
102	SHILLDING	1307.5	-233
163	GAML	1392.5	-233
163	GAML	1392.5	-233
163 164	GAML GAML	1392.5 1477.5	-233 -233
163 164 165	GAML GAML V8	1392.5 1477.5 1562.5	-233 -233 -233
163 164 165 166	GAML V8 V8	1392.5 1477.5 1562.5 1647.5	-233 -233 -233 -233
163 164 165 166 167	GAML GAML V8 V8	1392.5 1477.5 1562.5 1647.5 1732.5	-233 -233 -233 -233 -233
163 164 165 166 167 168	GAML V8 V8 V9	1392.5 1477.5 1562.5 1647.5	-233 -233 -233 -233
163 164 165 166 167 168	GAML GAML V8 V8	1392.5 1477.5 1562.5 1647.5 1732.5	-233 -233 -233 -233 -233
163 164 165 166 167 168 169	GAML V8 V8 V9 V9 V10	1392.5 1477.5 1562.5 1647.5 1732.5 1817.5 1902.5	-233 -233 -233 -233 -233 -233 -233
163 164 165 166 167 168 169 170	GAML V8 V8 V9 V9 V10 V10	1392.5 1477.5 1562.5 1647.5 1732.5 1817.5 1902.5 1987.5	-233 -233 -233 -233 -233 -233 -233 -233
163 164 165 166 167 168 169 170 171	GAML V8 V8 V9 V9 V10 V10 V11	1392.5 1477.5 1562.5 1647.5 1732.5 1817.5 1902.5 1987.5 2072.5	-233 -233 -233 -233 -233 -233 -233 -233
163 164 165 166 167 168 169 170 171	GAML V8 V8 V9 V9 V10 V10 V11 V11	1392.5 1477.5 1562.5 1647.5 1732.5 1817.5 1902.5 1987.5 2072.5 2157.5	-233 -233 -233 -233 -233 -233 -233 -233 -233
163 164 165 166 167 168 169 170 171 172 173	GAML V8 V8 V9 V9 V10 V10 V11	1392.5 1477.5 1562.5 1647.5 1732.5 1817.5 1902.5 1987.5 2072.5	-233 -233 -233 -233 -233 -233 -233 -233
163 164 165 166 167 168 169 170 171	GAML V8 V8 V9 V9 V10 V10 V11 V11	1392.5 1477.5 1562.5 1647.5 1732.5 1817.5 1902.5 1987.5 2072.5 2157.5	-233 -233 -233 -233 -233 -233 -233 -233 -233 -233
163 164 165 166 167 168 169 170 171 172 173	GAML V8 V8 V9 V9 V10 V10 V11 V11 V11 V12 V12	1392.5 1477.5 1562.5 1647.6 1732.5 1817.5 1902.5 1987.5 2072.5 2157.5 2242.5	-233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233
163 164 165 166 167 168 169 170 171 172 173 174	GAML V8 V8 V9 V10 V10 V11 V11 V12 V12 V13	1392.5 1477.5 1562.5 1647.6 1732.5 1817.5 1902.5 1987.5 2072.5 2157.5 2242.5 2327.5 2412.5	-233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233
163 164 165 166 167 168 169 170 171 172 173 174 175	GAML V8 V8 V9 V9 V10 V10 V11 V11 V12 V12 V13 V13	1392.5 1477.5 1562.5 1647.6 1732.5 1817.5 1902.5 1987.5 2072.5 2157.5 2242.5 2327.5 2412.5 2497.5	-233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233
163 164 165 166 167 168 169 170 171 172 173 174 175 176	GAML V8 V8 V9 V10 V10 V11 V11 V12 V12 V13 V13 V14	1392.5 1477.5 1562.5 1647.6 1732.5 1817.5 1902.5 1987.5 2072.5 2157.5 2242.5 2327.5 2412.5 2497.5 2582.5	-233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233
163 164 165 166 167 168 169 170 171 172 173 174 175 176 177	GAML V8 V8 V9 V9 V10 V10 V11 V11 V12 V12 V13 V13 V14 V14	1392.5 1477.5 1562.5 1647.6 1732.5 1817.5 1902.5 1987.5 2072.5 2157.5 2242.5 2327.5 2412.5 2497.5 2582.5 2667.5	-233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233
163 164 165 166 167 168 169 170 171 172 173 174 175 176	GAML V8 V8 V9 V10 V10 V11 V11 V12 V12 V13 V13 V14	1392.5 1477.5 1562.5 1647.6 1732.5 1817.5 1902.5 1987.5 2072.5 2157.5 2242.5 2327.5 2412.5 2497.5 2582.5	-233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233
163 164 165 166 167 168 169 170 171 172 173 174 175 176 177	GAML V8 V8 V9 V9 V10 V10 V11 V11 V12 V12 V13 V13 V14 V14 SHIELDING	1392.5 1477.5 1562.5 1647.6 1732.5 1817.5 1902.5 1987.5 2072.5 2157.5 2242.5 2327.5 2412.5 2497.5 2582.5 2667.5 2752.5	-233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233
163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178	GAML V8 V8 V9 V10 V10 V11 V11 V12 V12 V13 V13 V14 V14 SHIELDING AGND	1392.5 1477.5 1562.5 1647.6 1732.5 1817.5 1902.5 2072.5 2157.5 2242.5 2327.5 2412.5 2497.5 2582.5 2667.5 2837.5	-233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233
163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181	GAML V8 V8 V9 V9 V10 V10 V11 V11 V12 V12 V13 V13 V14 V14 SHIELDING AGND AGND	1392.5 1477.5 1562.5 1647.6 1732.5 1902.5 1987.5 2072.5 2157.5 2242.5 2327.5 2412.5 2497.5 2582.5 2667.5 2752.5 2837.5 2922.5	-233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233
163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 180 181	GAML V8 V8 V9 V9 V10 V10 V11 V11 V12 V12 V13 V14 V14 SHIELDING AGND AGND	1392.5 1477.5 1562.5 1647.6 1732.5 1902.5 1987.5 2072.5 2157.5 2242.5 2327.5 2412.5 2497.5 2582.5 2667.5 2752.5 2837.5 2922.5 3007.5	-233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233
163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 180 181 182 183	GAML V8 V8 V9 V9 V10 V10 V11 V11 V12 V12 V13 V14 V14 SHIELDING AGND AGND AGND AGND	1392.5 1477.5 1562.5 1647.6 1732.5 1817.5 1902.5 2072.5 2157.5 2242.5 2327.5 2412.5 2497.5 2582.5 2667.5 2752.5 2837.5 2922.5 3007.5 3092.5	-233 -233 -233 -233 -233 -233 -233 -233
163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 180 181 182 183	GAML V8 V8 V9 V9 V10 V10 V11 V11 V12 V12 V13 V14 V14 SHIELDING AGND AGND	1392.5 1477.5 1562.5 1647.6 1732.5 1902.5 1987.5 2072.5 2157.5 2242.5 2327.5 2412.5 2497.5 2582.5 2667.5 2752.5 2837.5 2922.5 3007.5	-233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233
163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 180 181 182 183	GAML V8 V8 V9 V9 V10 V10 V11 V11 V12 V12 V13 V14 V14 SHIELDING AGND AGND AGND AGND	1392.5 1477.5 1562.5 1647.6 1732.5 1817.5 1902.5 1987.5 2072.5 2157.5 2242.5 2327.5 2412.5 2497.5 2582.5 2667.5 2752.5 2837.5 2922.5 3007.5 3092.5 3177.5	-233 -233 -233 -233 -233 -233 -233 -233
163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 180 181 182 183 184	GAML V8 V8 V9 V9 V10 V10 V11 V11 V12 V12 V13 V14 V14 SHIELDING AGND AGND AGND AGND SHIELDING AVDD	1392.5 1477.5 1562.5 1647.6 1732.5 1817.5 1902.5 1987.5 2072.5 2157.5 2242.5 2497.5 2497.5 25667.5 2752.5 2837.5 2922.5 3007.5 3092.5 3177.5	-233 -233 -233 -233 -233 -233 -233 -233
163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 180 181 182 183 184 185	GAML V8 V8 V9 V9 V10 V10 V11 V11 V12 V12 V13 V14 SHIELDING AGND AGND AGND AGND AGND SHIELDING AVDD AVDD	1392.5 1477.5 1562.5 1647.6 1732.5 1817.5 1902.5 1987.5 2072.5 2157.5 2242.5 2412.5 2497.5 2582.5 2667.5 2752.5 2837.5 2922.5 3007.5 3092.5 3177.5 3262.5 3347.5	-233 -233 -233 -233 -233 -233 -233 -233
163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 180 181 182 183 184 185 186	GAML V8 V8 V9 V9 V10 V10 V11 V11 V12 V12 V13 V14 V14 SHIELDING AGND AGND AGND AGND AGND SHIELDING AVDD AVDD AVDD	1392.5 1477.5 1562.5 1647.6 1732.5 1817.5 1902.5 1987.5 2072.5 2157.5 2242.5 2497.5 2582.5 2667.5 2752.5 2837.5 2922.5 3007.5 3092.5 3177.5 3262.5 3443.5	-233 -233 -233 -233 -233 -233 -233 -233
163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 180 181 182 183 184 185	GAML V8 V8 V9 V9 V10 V10 V11 V11 V12 V12 V13 V14 SHIELDING AGND AGND AGND AGND AGND SHIELDING AVDD AVDD AVDD AVDD AVDD AVDD	1392.5 1477.5 1562.5 1647.6 1732.5 1817.5 1902.5 1987.5 2072.5 2157.5 2242.5 2327.5 2412.5 2497.5 2582.5 2667.5 2752.5 2837.5 2922.5 3007.5 3092.5 3177.5 3262.5 3432.5 3517.5	-233 -233 -233 -233 -233 -233 -233 -233
163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 180 181 182 183 184 185 186	GAML V8 V8 V9 V9 V10 V10 V11 V11 V12 V12 V13 V14 V14 SHIELDING AGND AGND AGND AGND AGND SHIELDING AVDD AVDD AVDD	1392.5 1477.5 1562.5 1647.6 1732.5 1817.5 1902.5 1987.5 2072.5 2157.5 2242.5 2497.5 2582.5 2667.5 2752.5 2837.5 2922.5 3007.5 3092.5 3177.5 3262.5 3443.5	-233 -233 -233 -233 -233 -233 -233 -233
163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 180 181 182 183 184 185 186 187	GAML V8 V8 V9 V9 V10 V10 V11 V11 V12 V12 V13 V14 SHIELDING AGND AGND AGND AGND AGND AGND AGND AG	1392.5 1477.5 1562.5 1647.6 1732.5 1902.5 1987.5 2072.5 2157.5 2242.5 2327.5 2412.5 2497.5 2582.5 2667.5 2752.5 2837.5 2922.5 3007.5 3092.5 3177.5 3262.5 3432.5 3517.5	-233 -233 -233 -233 -233 -233 -233 -233
163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 180 181 182 183 184 185 186 187 188	GAML V8 V8 V9 V9 V10 V10 V11 V11 V12 V12 V13 V14 SHIELDING AGND AGND AGND AGND AGND AGND AGND AG	1392.5 1477.5 1562.5 1647.6 1732.5 1902.5 1987.5 2072.5 2157.5 2242.5 2327.5 2412.5 2497.5 2582.5 2667.5 2752.5 2837.5 2922.5 3007.5 3092.5 3177.5 3262.5 3432.5 3517.5 3602.5 3687.5	-233 -233 -233 -233 -233 -233 -233 -233
163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 180 181 182 183 184 185 186 187 188 189	GAML V8 V8 V9 V9 V10 V10 V11 V11 V12 V12 V13 V13 V14 V14 SHIELDING AGND AGND AGND AGND AGND AGND SHIELDING AVDD AVDD AVDD AVDD SHIELDING GND GND	1392.5 1477.5 1562.5 1647.6 1732.5 1902.5 1987.5 2072.5 2157.5 2242.5 2327.5 2412.5 2497.5 2582.5 2667.5 2752.5 2837.5 2837.5 2837.5 2837.5 2837.5 2837.5 3007.5 3177.5 3262.5 3347.5 3432.5 3687.5 3772.5	-233 -233 -233 -233 -233 -233 -233 -233
163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 180 181 182 183 184 185 186 187 188	GAML V8 V8 V9 V9 V10 V10 V11 V11 V12 V12 V13 V13 V14 V14 SHIELDING AGND AGND AGND AGND AUDD AVDD AVDD AVDD SHIELDING GND GND GND GND GND	1392.5 1477.5 1562.5 1647.6 1732.5 1902.5 1987.5 2072.5 2157.5 2242.5 2327.5 2412.5 2497.5 2582.5 2667.5 2752.5 2837.5 2922.5 3007.5 3092.5 3177.5 3262.5 347.5 347.5 347.5 3577.5 3602.5 3687.5 3772.5	-233 -233 -233 -233 -233 -233 -233 -233
163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 180 181 182 183 184 185 186 187 188 189	GAML V8 V8 V9 V9 V10 V10 V11 V11 V12 V12 V13 V13 V14 V14 SHIELDING AGND AGND AGND AGND AGND AGND SHIELDING AVDD AVDD AVDD AVDD SHIELDING GND GND	1392.5 1477.5 1562.5 1647.6 1732.5 1902.5 1987.5 2072.5 2157.5 2242.5 2327.5 2412.5 2497.5 2582.5 2667.5 2752.5 2837.5 2837.5 2837.5 2837.5 2837.5 2837.5 3007.5 3177.5 3262.5 3347.5 3432.5 3687.5 3772.5	-233 -233 -233 -233 -233 -233 -233 -233
163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 180 181 182 183 184 185 186 187 188 189 190	GAML V8 V8 V9 V9 V10 V10 V11 V11 V12 V12 V13 V13 V14 V14 SHIELDING AGND AGND AGND AGND AUDD AVDD AVDD AVDD SHIELDING GND GND GND GND GND	1392.5 1477.5 1562.5 1647.6 1732.5 1902.5 1987.5 2072.5 2157.5 2242.5 2327.5 2412.5 2497.5 2582.5 2667.5 2752.5 2837.5 2922.5 3007.5 3092.5 3177.5 3262.5 347.5 347.5 347.5 3577.5 3602.5 3687.5 3772.5	-233 -233 -233 -233 -233 -233 -233 -233

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	196	VDD	4197.5	-233
	197	VDD	4282.5	
		VDD	4367.5	-233
	199	SHIELDING	4452.5	-233
	200	DUAL	4537.5	-233
	201	DUAL	4622.5	-233
	202	MASL	4707.5	-233
	203	MASL	4792.5	-233
	204	MASLOC	4877.5	-233
	205	MASLOC	4962.5	-233
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	207	CABC_EN[0]	5132.5	-233
	208	CABC_EN[1]	5217.5	-233
	209	CABC_EN[1]	5302.5	-233
	210	TP	5387.5	-233
	211	TP	5472.5	-233
	212	MODE	5557.5	-233
		MODE	5642.5	-233
		IFSEL		-233
			5727.5	
	215	IFSEL	5812.5	-233
	216	BIST	5897.5	-233
	217	BIST	5982.5	-233
	218	RES[0]	6067.5	-233
	219	RES[0]	6152.5	-233
	220	RES[1]	6237.5	-233
	221	RES[1]	6322.5	-233
	222	DCLKPOL	6407.5	-233
	223	DCLKPOL	6492.5	-233
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		- //	6577.5	-233
	225	STBYB	6662.5	-233
	226	GRB	6747.5	-233
	227	GRB	6832.5	-233
	228	SHLR	6917.5	-233
	228 229	SHLR SHLR	6917.5 7002.5	-233 -233
	229			
	229 230	SHLR	7002.5 7087.5	-233 -233
	229 230 231	SHLR UPDN UPDN	7002.5 7087.5 7172.5	-233 -233 -233
	229 230 231 232	SHLR UPDN UPDN TP	7002.5 7087.5 7172.5 7257.5	-233 -233 -233 -233
	229 230 231 232 233	SHLR UPDN UPDN TP TP	7002.5 7087.5 7172.5 7257.5 7342.5	-233 -233 -233 -233 -233
	229 230 231 232 233 234	SHLR UPDN UPDN TP TP TP	7002.5 7087.5 7172.5 7257.5 7342.5 7427.5	-233 -233 -233 -233 -233 -233
	229 230 231 232 233 234 235	SHLR UPDN UPDN TP TP TP TP	7002.5 7087.5 7172.5 7257.5 7342.5 7427.5 7512.5	-233 -233 -233 -233 -233 -233 -233
	229 230 231 232 233 234 235 236	SHLR UPDN UPDN TP TP TP TP	7002.5 7087.5 7172.5 7257.5 7342.5 7427.5 7512.5 7597.5	-233 -233 -233 -233 -233 -233 -233 -233
	229 230 231 232 233 234 235 236 237	SHLR UPDN UPDN TP TP TP TP TP TP TP	7002.5 7087.5 7172.5 7257.5 7342.5 7427.5 7512.5 7597.5 7682.5	-233 -233 -233 -233 -233 -233 -233 -233 -233
	229 230 231 232 233 234 235 236 237 238	SHLR UPDN TP TP TP TP TP TP TP TP TP	7002.5 7087.5 7172.5 7257.5 7342.5 7427.5 7512.5 7597.5 7682.5 7767.5	-233 -233 -233 -233 -233 -233 -233 -233
	229 230 231 232 233 234 235 236 237 238 239	SHLR UPDN TP	7002.5 7087.5 7172.5 7257.5 7342.5 7427.5 7512.5 7597.5 7682.5 7852.5	-233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233
	229 230 231 232 233 234 235 236 237 238 239 240	SHLR UPDN TP	7002.5 7087.5 7172.5 7257.5 7342.5 7427.5 7512.5 7597.5 7682.5 7767.5 7852.5	-233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233
	229 230 231 232 233 234 235 236 237 238 239	SHLR UPDN TP	7002.5 7087.5 7172.5 7257.5 7342.5 7427.5 7512.5 7597.5 7682.5 7767.5 7852.5 7937.5 8022.5	-233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233
	229 230 231 232 233 234 235 236 237 238 239 240 241	SHLR UPDN TP	7002.5 7087.5 7172.5 7257.5 7342.5 7427.5 7512.5 7597.5 7682.5 7767.5 7852.5	-233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233
	229 230 231 232 233 234 235 236 237 238 239 240 241	SHLR UPDN TP	7002.5 7087.5 7172.5 7257.5 7342.5 7427.5 7512.5 7597.5 7682.5 7767.5 7852.5 7937.5 8022.5 8107.5	-233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233
	229 230 231 232 233 234 235 236 237 238 239 240 241	SHLR UPDN TP	7002.5 7087.5 7172.5 7257.5 7342.5 7427.5 7512.5 7597.5 7682.5 7767.5 7852.5 7937.5 8022.5	-233 -233 -233 -233 -233 -233 -233 -233
	229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244	SHLR UPDN TP	7002.5 7087.5 7172.5 7257.5 7342.5 7427.5 7512.5 7597.5 7682.5 7767.5 7852.5 7937.5 8022.5 8107.5 8192.5	-233 -233 -233 -233 -233 -233 -233 -233
	229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245	SHLR UPDN UPDN TP	7002.5 7087.5 7172.5 7257.5 7342.5 7512.5 7597.5 7682.5 7767.5 7852.5 7937.5 8022.5 8107.5 8192.5 8277.5	-233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233
	229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246	SHLR UPDN UPDN TP	7002.5 7087.5 7172.5 7257.5 7342.5 7512.5 7597.5 7682.5 7767.5 7852.5 7937.5 8022.5 8107.5 8192.5 8362.5 8447.5	-233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233 -233
	229 230 231 232 233 234 235 236 237 238 249 240 241 242 243 244 245 246 247	SHLR UPDN UPDN TP	7002.5 7087.5 7172.5 7257.5 7342.5 7512.5 7597.5 7682.5 7767.5 7852.5 7937.5 8022.5 8107.5 8192.5 8277.5 8362.5 8447.5	-233 -233 -233 -233 -233 -233 -233 -233
	229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247	SHLR UPDN UPDN TP	7002.5 7087.5 7172.5 7257.5 7342.5 7512.5 7597.5 7682.5 7767.5 7852.5 7937.5 8022.5 8107.5 8192.5 8277.5 8362.5 8447.5	-233 -233 -233 -233 -233 -233 -233 -233
	229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248	SHLR UPDN UPDN TP	7002.5 7087.5 7172.5 7257.5 7342.5 7512.5 7597.5 7682.5 7767.5 7852.5 7937.5 8022.5 8107.5 8192.5 8277.5 8362.5 8447.5 8532.5 8617.5 8702.5	-233 -233 -233 -233 -233 -233 -233 -233
	229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250	SHLR UPDN UPDN TP	7002.5 7087.5 7087.5 7172.5 7257.5 7342.5 7512.5 7597.5 7682.5 767.5 7852.5 7937.5 8022.5 8107.5 8192.5 8277.5 8362.5 8447.5 8532.5 8617.5 8702.5	-233 -233 -233 -233 -233 -233 -233 -233
	229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251	SHLR UPDN UPDN TP	7002.5 7087.5 7087.5 7172.5 7257.5 7342.5 7512.5 7597.5 7682.5 7682.5 7852.5 8022.5 8107.5 8192.5 8277.5 8362.5 8447.5 8532.5 8617.5 8787.5 8787.5	-233 -233 -233 -233 -233 -233 -233 -233
	229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250	SHLR UPDN UPDN TP	7002.5 7087.5 7087.5 7172.5 7257.5 7342.5 7427.5 7512.5 7597.5 7682.5 7682.5 7852.5 8022.5 8107.5 8192.5 8277.5 8362.5 8447.5 8532.5 8617.5 8702.5 8787.5	-233 -233 -233 -233 -233 -233 -233 -233
	229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251	SHLR UPDN UPDN TP	7002.5 7087.5 7087.5 7172.5 7257.5 7342.5 7427.5 7512.5 7597.5 7682.5 7682.5 7852.5 8022.5 8107.5 8192.5 8277.5 8362.5 8447.5 8532.5 8617.5 8702.5 8787.5	-233 -233 -233 -233 -233 -233 -233 -233
	229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251	SHLR UPDN UPDN TP	7002.5 7087.5 7087.5 7172.5 7257.5 7342.5 7512.5 7597.5 7682.5 7682.5 7852.5 8022.5 8107.5 8192.5 8277.5 8362.5 8447.5 8532.5 8617.5 8787.5 8787.5 8957.5	-233 -233 -233 -233 -233 -233 -233 -233
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	229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259	SHLR UPDN UPDN TP	7002.5 7087.5 7087.5 7172.5 7257.5 7342.5 7512.5 7597.5 7682.5 7767.5 7852.5 8022.5 8107.5 8192.5 8277.5 8362.5 8447.5 8532.5 8617.5 8702.5 8787.5 9042.5 9127.5 9212.5 9297.5 9382.5	-233 -233 -233 -233 -233 -233 -233 -233
	229 230 231 232 233 234 235 236 237 238 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258	SHLR UPDN UPDN TP	7002.5 7087.5 7087.5 7172.5 7257.5 7342.5 7512.5 7597.5 7682.5 7767.5 7852.5 8022.5 8107.5 8192.5 8277.5 8362.5 8447.5 8532.5 8617.5 8702.5 8787.5 9042.5 9127.5 9297.5 9382.5	-233 -233 -233 -233 -233 -233 -233 -233

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263	AGND	9892.5	-233
264	AGND	9977.5	-233
265	AGND	10062.5	-233
266	AGND	10147.5	-233
267	SHIELDING	10232.5	-233
268	PRE_CHARGE	10317.5	-233
269	VCOMI	10402.5	-233
270	VCOMI	10487.5	-233
271	PWR_EN	10572.5	-233
272	PWR_EN	10657.5	-233
	FBL	10742.5	-233
274	FBL	10827.5	-233
275	FBH	10912.5	-233
276	FBH	10997.5	-233
277	FBA	11082.5	-233
278	FBA 🦼 🧻	11167.5	-233
	AVDDG	11252.5	-233
	AVDDG	11337.5	-233
	DRVA	11422.5	-233
282	DRVA	11507.5	-233
283	DRVH	11592.5	-233
	DRVH 🚄	11677.5	-233
285	DRVL	11762.5	-233
286	DRVL	11847.5	-233
287	DRVL\B	11932.5	-233
288	DRVL_B	12017.5	-233
289	VCOMO	12102.5	-233
290	VCOMO	12187.5	-233
291	COM2_IN	12272.5	-233
292	COM2_IN	12357.5	-233
293	STBNL	12403	-122
294	F_CtrlL	12303	-82
295	STV1L	12403	-42
296	STV2L	12303	-2
	STV1L	12403	38
298	CKVL	12303	78
	UDL	12403	118
300	SYNC2L	12303	158
301	SYNC1L	12403	198
	OEVL	12303	238
	F_CtrlL	12403	278
	SHIELDING	12205	258
	COM2_OUT	12155	258
	COM2_OUT	12105	258
	SHIELDING	12055	258
	SO1	12012.5	78
309	SO2	11997.5	168
	SO3	11982.5	258
	SO4	11967.5	78
312	SO5	11952.5	168
	SO6	11937.5	258
314	SO7	11922.5	78
315	SO8	11907.5	168
	SO9	11892.5	258
	SO10	11877.5	78
	SO11	11862.5	168
	SO12	11847.5	258
320	SO13	11832.5	78
321	SO14	11817.5	168
322	SO15	11802.5	258
323	SO16	11787.5	78
	SO17	11772.5	168
325	SO18	11757.5	258
326	SO19	11742.5	78
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327	SO20	11727.5	168
328	SO21	11712.5	258
329	SO22	11697.5	78
330	SO23	11682.5	168
331	SO24	11667.5	258
332	SO25	11652.5	78
333	SO26	11637.5	168
334	SO27	11622.5	258
335	SO28	11607.5	78
336	SO29	11592.5	168
337	SO30	11577.5	258
338	SO31	11562.5	78
339	SO32	11547.5	168
340	SO33	11532.5	258
	SO34	11517.5	78
342	SO35	11502.5	168
343	SO36	11487.5	258
344	SO37	11472.5	78
345	SO38	11457.5	168
346	SO39	11442.5	258
347	SO40	11427.5	78
348	SO41	11412.5	168
	SO42	11397.5	258
350	SO43	11382.5	78
351	SO44	11367.5	168
352	SO45	11352.5	258
353	SO46	11337.5	78
354	SO47	11322.5	168
355	SO48	11307.5	258
356	SO49	11292.5	78
357	SO50	11277.5	168
358	SO51	11262.5	258
359	SO52	11247.5	78
360	SO53	11232.5	168
360 361	SO53	11232.5	168 258
361	SO54	11217.5	258
361 362	SO54 SO55	11217.5 11202.5	258 78
361	SO54 SO55 SO56	11217.5	258
361 362	SO54 SO55	11217.5 11202.5	258 78
361 362 363 364	\$054 \$055 \$056 \$057	11217.5 11202.5 11187.5 11172.5	258 78 168 258
361 362 363 364 365	\$054 \$055 \$056 \$057 \$058	11217.5 11202.5 11187.5 11172.5 11157.5	258 78 168 258 78
361 362 363 364 365 366	SO54 SO55 SO56 SO57 SO58 SO59	11217.5 11202.5 11187.5 11172.6 11157.5 11142.5	258 78 168 258 78 168
361 362 363 364 365	\$054 \$055 \$056 \$057 \$058	11217.5 11202.5 11187.5 11172.5 11157.5	258 78 168 258 78 168 258
361 362 363 364 365 366 367	SO54 SO55 SO56 SO57 SO58 SO59	11217.5 11202.5 11187.5 11172.5 11157.5 11142.5 11127.5	258 78 168 258 78 168 258
361 362 363 364 365 366 367 368	SO54 SO55 SO56 SO57 SO58 SO59 SO60 SO61	11217.5 11202.5 11187.5 11172.5 11157.5 11142.5 11127.5 11112.5	258 78 168 258 78 168 258 78
361 362 363 364 365 366 367 368 369	SO54 SO55 SO56 SO57 SO58 SO59 SO60 SO61 SO62	11217.5 11202.5 11187.5 11172.6 11157.5 11142.5 11127.5 11112.5 11097.5	258 78 168 258 78 168 258 78 168
361 362 363 364 365 366 367 368 369 370	SO54 SO55 SO56 SO57 SO58 SO59 SO60 SO61 SO62 SO63	11217.5 11202.5 11187.5 11172.6 11157.5 11142.5 11127.5 11112.5 11097.5 11082.5	258 78 168 258 78 168 258 78 168 258
361 362 363 364 365 366 367 368 369 370 371	SO54 SO55 SO56 SO57 SO58 SO59 SO60 SO61 SO62 SO63 SO64	11217.5 11202.5 11187.5 11172.6 11157.5 11142.5 11127.5 11112.5 11097.5 11082.5 11067.5	258 78 168 258 78 168 258 78 168 258 78
361 362 363 364 365 366 367 368 369 370	SO54 SO55 SO56 SO57 SO58 SO59 SO60 SO61 SO62 SO63	11217.5 11202.5 11187.5 11172.6 11157.5 11142.5 11127.5 11112.5 11097.5 11082.5	258 78 168 258 78 168 258 78 168 258
361 362 363 364 365 366 367 368 369 370 371	SO54 SO55 SO56 SO57 SO58 SO59 SO60 SO61 SO62 SO63 SO64 SO65	11217.5 11202.5 11187.5 11172.6 11157.5 11142.5 11127.5 11112.5 11097.5 11082.5 11067.5 11052.5	258 78 168 258 78 168 258 78 168 258 78 168
361 362 363 364 365 366 367 368 369 370 371 372 373	SO54 SO55 SO56 SO57 SO58 SO59 SO60 SO61 SO62 SO63 SO64 SO65 SO66	11217.5 11202.5 11187.5 11172.6 11157.5 11142.5 11127.5 11112.5 11097.5 11082.5 11067.5 11052.5 11037.5	258 78 168 258 78 168 258 78 168 258 78 168 258
361 362 363 364 365 366 367 368 369 370 371 372 373	SO54 SO55 SO56 SO57 SO58 SO59 SO60 SO61 SO62 SO63 SO64 SO65 SO65 SO66	11217.5 11202.5 11187.5 11172.6 11157.5 11142.5 11127.5 11112.5 11097.5 11082.5 11067.5 11052.5 11037.5	258 78 168 258 78 168 258 78 168 258 78 168 258 78
361 362 363 364 365 366 367 368 369 370 371 372 373 374 375	SO54 SO55 SO56 SO57 SO58 SO59 SO60 SO61 SO62 SO63 SO64 SO65 SO66 SO67 SO68	11217.5 11202.5 11187.5 11172.6 11157.5 11142.5 11127.5 11112.5 11097.5 11082.5 11067.5 11037.5 11022.5 11007.5	258 78 168 258 78 168 258 78 168 258 78 168 258 78 168
361 362 363 364 365 366 367 368 369 370 371 372 373	SQ54 \$Q55 \$Q56 \$Q57 \$Q58 \$Q59 \$Q60 \$Q61 \$Q62 \$Q63 \$Q63 \$Q64 \$Q65 \$Q66 \$Q66 \$Q66 \$Q66 \$Q66 \$Q66 \$Q66	11217.5 11202.5 11187.5 11172.6 11157.5 11142.5 11127.5 11112.5 11097.5 11082.5 11067.5 11052.5 11037.5	258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258
361 362 363 364 365 366 367 368 369 370 371 372 373 374 375	SQ54 \$Q55 \$Q56 \$Q57 \$Q58 \$Q59 \$Q60 \$Q61 \$Q62 \$Q63 \$Q63 \$Q64 \$Q65 \$Q66 \$Q66 \$Q66 \$Q66 \$Q66 \$Q66 \$Q66	11217.5 11202.5 11187.5 11172.6 11157.5 11142.5 11127.5 111097.5 11067.5 11067.5 11037.5 11022.5 11007.5 110992.5	258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258
361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376	SQ54 \$Q55 \$Q56 \$Q57 \$Q58 \$Q59 \$Q60 \$Q61 \$Q62 \$Q63 \$Q63 \$Q64 \$Q65 \$Q66 \$Q66 \$Q66 \$Q66 \$Q66 \$Q66 \$Q66	11217.5 11202.5 11187.5 11172.6 11157.5 11142.5 11127.5 111097.5 11082.5 11067.5 11052.5 11037.5 11022.5 11097.5	258 78 168 258 78 168 258 78 168 258 78 168 258 78
361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377	SO54 \$O55 \$O56 \$O57 \$O58 \$O59 \$O60 \$O61 \$O62 \$O63 \$O64 \$O65 \$O66 \$O67 \$O68 \$O69 \$O70 \$O71	11217.5 11202.5 11187.5 11172.6 11157.5 11142.5 11127.5 111097.5 11082.5 11067.5 11052.5 11052.5 11007.5 11097.5 10992.5	258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
361 362 363 364 365 366 367 368 369 371 372 373 374 375 376 377 378	SQ54 \$Q55 \$Q56 \$Q57 \$Q58 \$Q59 \$Q60 \$Q61 \$Q62 \$Q63 \$Q64 \$Q65 \$Q66 \$Q65 \$Q66 \$Q67 \$Q68 \$Q69 \$Q70 \$Q71 \$Q72	11217.5 11202.5 11187.5 11172.5 11157.5 11142.5 11127.5 11097.5 11067.5 11067.5 11052.5 11007.5 11007.5 11092.5 10992.5 10992.5	258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258
361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377	SQ54 SQ55 SQ56 SQ57 SQ58 SQ59 SQ60 SQ61 SQ62 SQ63 SQ64 SQ65 SQ66 SQ66 SQ66 SQ67 SQ68 SQ69 SQ70 SQ71 SQ72 SQ73	11217.5 11202.5 11187.5 11172.6 11157.5 11142.5 11127.5 111097.5 11082.5 11067.5 11052.5 11052.5 11007.5 11097.5 10992.5	258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
361 362 363 364 365 366 367 368 369 371 372 373 374 375 376 377 378 379 380	SQ54 SQ55 SQ56 SQ57 SQ58 SQ59 SQ60 SQ61 SQ62 SQ63 SQ64 SQ65 SQ66 SQ66 SQ66 SQ67 SQ68 SQ69 SQ70 SQ71 SQ72 SQ73	11217.5 11202.5 11187.5 11172.5 11157.5 11142.5 11127.5 111097.5 11067.5 11067.5 11052.5 11052.5 11007.5 11092.5 10992.5 10992.5 10947.5 10932.5	258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
361 362 363 364 365 366 367 368 370 371 372 373 374 375 376 377 378 379 380 381	SQ54 SQ55 SQ56 SQ57 SQ58 SQ59 SQ60 SQ61 SQ62 SQ63 SQ64 SQ65 SQ66 SQ67 SQ68 SQ69 SQ70 SQ71 SQ72 SQ73 SQ74	11217.5 11202.5 11187.5 11172.5 11157.5 11142.5 11127.5 11097.5 11082.5 11067.5 11052.5 11037.5 11092.5 10992.5 10992.5 10947.5 10932.5 10932.5	258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
361 362 363 364 365 366 367 368 370 371 372 373 374 375 376 377 378 379 380 381 382	SQ54 SQ55 SQ56 SQ57 SQ58 SQ59 SQ60 SQ61 SQ62 SQ63 SQ64 SQ65 SQ66 SQ67 SQ68 SQ69 SQ70 SQ71 SQ72 SQ73 SQ74 SQ75	11217.5 11202.5 11187.5 11172.5 11157.5 11142.5 11127.5 11097.5 11082.5 11067.5 11052.5 11007.5 11092.5 10977.5 10992.5 10947.5 10932.5 10932.5	258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258
361 362 363 364 365 366 367 368 370 371 372 373 374 375 376 377 378 379 380 381 382 383	SO54 \$055 \$056 SO57 \$058 SO59 SO60 SO61 SO62 SO63 SO64 SO65 SO66 SO67 SO68 SO69 SO70 SO71 SO72 SO73 SO74 SO75 SO76	11217.5 11202.5 11187.5 11172.5 11157.5 11142.5 11127.5 11097.5 11082.5 11067.5 11052.5 11037.5 11092.5 10902.5 10947.5 10932.5 10932.5 10917.5 10902.5	258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
361 362 363 364 365 366 367 368 370 371 372 373 374 375 376 377 378 379 380 381 382	SQ54 SQ55 SQ56 SQ57 SQ58 SQ59 SQ60 SQ61 SQ62 SQ63 SQ64 SQ65 SQ66 SQ67 SQ68 SQ69 SQ70 SQ71 SQ72 SQ73 SQ74 SQ75	11217.5 11202.5 11187.5 11172.5 11157.5 11142.5 11127.5 11097.5 11082.5 11067.5 11052.5 11007.5 11092.5 10977.5 10992.5 10947.5 10932.5 10932.5	258 78 168 258 168 258 168 168 168 168 168 168 168 16
361 362 363 364 365 366 367 368 370 371 372 373 374 375 376 377 378 379 380 381 382 383	SO54 \$055 \$056 SO57 \$058 SO59 SO60 SO61 SO62 SO63 SO64 SO65 SO66 SO67 SO68 SO69 SO70 SO71 SO72 SO73 SO74 SO75 SO76	11217.5 11202.5 11187.5 11172.5 11157.5 11142.5 11127.5 11097.5 11082.5 11067.5 11052.5 11037.5 11092.5 10902.5 10947.5 10932.5 10932.5 10917.5 10902.5	258 78 168 258 168 258 168 168 168 168 168 168 168 16
361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 380 381 382 383 384 385	SO54 \$055 \$056 SO57 \$058 SO59 SO60 SO61 SO62 SO63 SO64 SO65 SO66 SO66 SO67 SO68 SO69 SO70 SO71 SO72 SO73 SO74 SO75 SO76 SO77 SO78	11217.5 11202.5 11187.5 11172.6 11157.5 11142.5 11127.5 11097.5 11082.5 11067.5 11052.5 11007.5 11007.5 11097.5 10992.5 10947.5 10947.5 10947.5 10947.5 10947.5 10947.5 10947.5	258 78 168 258 258 258 258 258 258 258 25
361 362 363 364 365 366 367 368 370 371 372 373 374 375 376 377 378 380 381 382 383 384 385 386	SO54 SO55 SO56 SO57 SO58 SO59 SO60 SO61 SO62 SO63 SO64 SO65 SO66 SO67 SO68 SO69 SO70 SO71 SO72 SO73 SO74 SO75 SO76 SO77	11217.5 11202.5 11187.5 11172.6 11157.5 11142.5 11127.5 11097.5 11082.5 11067.5 11052.5 11007.5 11007.5 11092.5 10992.5 10947.5 10947.5 10947.5 10947.5 10947.5 10947.5 10947.5 10947.5	258 78 168 258 78 78 78 78 78 78 78 78 78 7
361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 380 381 382 383 384 385 386 387	SO54 \$055 \$056 \$057 \$058 \$059 \$060 \$061 \$062 \$063 \$064 \$065 \$066 \$067 \$068 \$069 \$070 \$071 \$072 \$073 \$074 \$075 \$076 \$077 \$078 \$079 \$080	11217.5 11202.5 11187.5 11172.6 11157.5 11142.5 11127.5 11097.5 11082.5 11067.5 11052.5 11007.5 11007.5 11092.5 10947.5 10947.5 10947.5 10947.5 10947.5 10947.5 10947.5 10947.5 10947.5 10947.5	258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168
361 362 363 364 365 366 367 368 370 371 372 373 374 375 376 377 378 380 381 382 383 384 385 386	SO54 SO55 SO56 SO57 SO58 SO59 SO60 SO61 SO62 SO63 SO64 SO65 SO66 SO67 SO68 SO69 SO70 SO71 SO72 SO73 SO74 SO75 SO76 SO77	11217.5 11202.5 11187.5 11172.6 11157.5 11142.5 11127.5 11097.5 11082.5 11067.5 11052.5 11007.5 11007.5 11092.5 10992.5 10947.5 10947.5 10947.5 10947.5 10947.5 10947.5 10947.5 10947.5	258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258
361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 380 381 382 383 384 385 386 387 388	SO54 \$055 \$056 \$057 \$058 \$059 \$060 \$061 \$062 \$063 \$064 \$065 \$066 \$067 \$068 \$069 \$070 \$071 \$072 \$073 \$074 \$075 \$076 \$077 \$078 \$079 \$080	11217.5 11202.5 11187.5 11172.6 11157.5 11142.5 11127.5 11097.5 11082.5 11067.5 11052.5 11007.5 11007.5 11092.5 10947.5 10947.5 10947.5 10947.5 10947.5 10947.5 10947.5 10947.5 10947.5 10947.5	258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168
361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 380 381 382 383 384 385 386 387 388 389	SQ54 \$Q55 \$Q56 \$Q56 \$Q57 \$Q58 \$Q59 \$Q60 \$Q61 \$Q62 \$Q63 \$Q64 \$Q65 \$Q66 \$Q67 \$Q68 \$Q69 \$Q70 \$Q71 \$Q72 \$Q72 \$Q73 \$Q74 \$Q75 \$Q75 \$Q76 \$Q77 \$Q76 \$Q77 \$Q77 \$Q77 \$Q77 \$Q77	11217.5 11202.5 11187.5 11172.6 11167.5 11142.5 11127.5 11112.5 11097.5 11082.5 11067.5 11097.5 11092.5 11007.5 10992.5 10947.5 10992.5 10917.5 10902.5 10917.5 10902.5 10877.5 10877.5	258 78 168 258 78 78 78 78 78 78 78 78 78 7
361 362 363 364 365 366 367 368 370 371 372 373 374 375 376 377 380 381 382 383 384 385 386 387 388 389 390	SQ54 \$Q55 \$Q56 \$Q56 \$Q57 \$Q58 \$Q59 \$Q60 \$Q61 \$Q62 \$Q63 \$Q64 \$Q65 \$Q66 \$Q67 \$Q68 \$Q69 \$Q70 \$Q71 \$Q72 \$Q72 \$Q73 \$Q74 \$Q75 \$Q75 \$Q76 \$Q77 \$Q76 \$Q77 \$Q77 \$Q77 \$Q77 \$Q77	11217.5 11202.5 11187.5 11172.6 11167.5 11142.5 11127.5 11112.5 11097.5 11067.5 11067.5 11067.5 11067.5 11097.5 10992.5 10977.5 10992.5 10947.5 10992.5 10917.5 10902.5 10917.5 1087.5 1087.5 1087.5 1087.5 1087.5 1087.5 1087.5 1087.5 1087.5	258 78 168 258 168 168 168 168 168 168 168 16
361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 380 381 382 383 384 385 386 387 388 389 390 391	SQ54 \$Q55 \$Q56 \$Q56 \$Q57 \$Q58 \$Q59 \$Q60 \$Q61 \$Q62 \$Q63 \$Q64 \$Q65 \$Q66 \$Q67 \$Q68 \$Q69 \$Q70 \$Q71 \$Q72 \$Q73 \$Q74 \$Q75 \$Q75 \$Q75 \$Q76 \$Q77 \$Q76 \$Q77 \$Q77 \$Q77 \$Q77 \$Q78 \$Q79 \$Q79 \$Q80 \$Q81 \$Q82 \$Q83 \$Q84	11217.5 11202.5 11187.5 11172.6 11167.5 11142.5 11127.5 111097.5 11082.5 11067.5 11067.5 11067.5 11097.5 1092.5 10977.5 10992.5 10947.5 10947.5 10947.5 10902.5 10917.5 10857.5 10857.5 10857.5 10857.5 10857.5 10857.5 10857.5	258 78 168 258 258 78 168 258 258 258 258 258 258 258 25
361 362 363 364 365 366 367 368 370 371 372 373 374 375 376 377 380 381 382 383 384 385 386 387 388 389 390	SQ54 \$Q55 \$Q56 \$Q56 \$Q57 \$Q58 \$Q59 \$Q60 \$Q61 \$Q62 \$Q63 \$Q64 \$Q65 \$Q66 \$Q67 \$Q68 \$Q69 \$Q70 \$Q71 \$Q72 \$Q72 \$Q73 \$Q74 \$Q75 \$Q75 \$Q76 \$Q77 \$Q76 \$Q77 \$Q77 \$Q77 \$Q77 \$Q77	11217.5 11202.5 11187.5 11172.6 11167.5 11142.5 11127.5 11112.5 11097.5 11067.5 11067.5 11067.5 11067.5 11097.5 10992.5 10977.5 10992.5 10947.5 10992.5 10917.5 10902.5 10917.5 1087.5 1087.5 1087.5 1087.5 1087.5 1087.5 1087.5 1087.5 1087.5	258 78 168 258 168 168 168 168 168 168 168 16

393	SO86	10737.5	168
394	SO87	10722.5	258
	SO88	10707.5	78
396	SO89	10692.5	168
397	SO90	10677.5	258
397			
	SO91	10662.5	78
399	SO92	10647.5	168
	SO93	10632.5	258
401	SO94	10617.5	78
402	SO95	10602.5	168
403	SO96	10587.5	258
404	SO97	10572.5	78
405	SO98	10557.5	168
406	SO99	10542.5	258
407	SO100	10527.5	78
	SO101	10512.5	168
409	SO102	10497.5	258
410	SO102	10482.5	78
	SO104	10467.5	168
412	SO105	10452.5	258
	SO106	10437.5	78
414	SO107	10422.5	168
415	SO108	10407.5	258
416	SO109	10392.5	78
417	SO110	10377.5	168
418	SO111 🔨	10362.5	258
419	SO112	10347.5	78
420	SO113	10332.5	168
421	SO114	10317.5	258
422	SO115	10302.5	78
423	SO116		
		10287.5	168
	SO117	10272.5	258
425	SO118	10257.5	78
426	SO119	10242.5	168
427	SO120	10227.5	258
428	SO121	10212.5	78
429	SO122	10197.5	168
430	SO123	10182.5	258
431	SO124	10167.5	78
432	SO125	10152.5	168
433	SO126	10137.5	258
	SO127	10122.5	78
435	SO128	10122.5	168
436	SO129	10092.5	258
	SO130	10077.5	78
438	SO131	10062.5	168
	SO132	10047.5	258
440	SO133	10032.5	78
441	SO134	10017.5	168
442	SO135	10002.5	258
443	SO136	9987.5	78
444	SO137	9972.5	168
	SO138	9957.5	258
446	SO139	9942.5	78
447	SO140	9927.5	168
448	SO140 SO141		
		9912.5	258
449	SO142	9897.5	78
	SO143	9882.5	168
451	SO144	9867.5	258
452	SO145	9852.5	78
453	SO146	9837.5	168
454	SO147	9822.5	258
455	SO148	9807.5	78
456	SO149	9792.5	168
457	SO150	9777.5	258
458	SO151	9762.5	78

459	SO152	9747.5	168
			258
460	SO153 SO154	9732.5	
461		9717.5	78
462	SO155	9702.5	168
463	SO156	9687.5	258
464	SO157	9672.5	78
465	SO158	9657.5	168
466	SO159	9642.5	258
467		9627.5	78
468	SO161	9612.5	168
469	SO162	9597.5	258
470	SO163	9582.5	78
471	SO164	9567.5	168
472	SO165	9552.5	258
473	SO166 SO167	9537.5	78
474		9522.5	168
475	SO168	9507.5	258
476	SO169	9492.5	78
477	SO170	9477.5	168
478	SQ171	9462.5	258
479	00172	9447.5	78
480	SO173	9432.5	168
481	SO174	9417.5	258
482	SO175	9402.5	78
483	SO176	9387.5	168
484		9372.5	258
485	SO178	9357.5	78
486		9342.5	168
487	*	9327.5	258
488	SO181	9312.5	78
489	SO182	9297.5	168
490	SO183	9282.5	258
491	SO184	9267.5	78
492	SO185	9252.5	168
493	SO186	9237.5	258
494	SO187	9222.5	78
495	SO188	9207.5	168
496		9192.5	258
	SO190		
497	SO190	9177.5	78
498		9162.5	168
499	SO192	9147.5	258
500	SO193	9132.5	78
501		9117.5	168
502	SO195	9102.5	258
503	SO196	9087.5	78
504	SO197	9072.5	168
505		9057.5	258
506		9042.5	78
507	SO200	9027.5	168
			258
508	SO201	9012.5	
509		8997.5	78
510		8982.5	168
511	SO204	8967.5	258
512	SO205	8952.5	78
513	SO206	8937.5	168
514	SO207	8922.5	258
515	SO208	8907.5	78
516	SO209	8892.5	168
517		8877.5	258
518	SO210	8862.5	78
519	SO212	8847.5	168
520	SO213	8832.5	258
521	SO214	8817.5	78
522		8802.5	168
523	SO216	8787.5	258
524	SO217	8772.5	78



525	SO218	8757.5	168
526	SO219	8742.5	258
527	SO220	8727.5	78
528	SO221	8712.5	168
529	SO222	8697.5	258
530	SO223	8682.5	78
531	SO224	8667.5	168
532	SO225	8652.5	258
533	SO226	8637.5	78
534	SO227	8622.5	168
535	SO228	8607.5	258
536	SO229	8592.5	78
537	SO230	8577.5	168
538	SO231	8562.5	258
539	SO232	8547.5	78
540	SO233	8532.5	168
541	SO234	8517.5	258
542	SO235	8502.5	78
543	SO236	8487.5	168
544	SO237	8472.5	258
545	SO238	8457.5	78
546	SO239	8442.5	168
547	SO240	8427.5	258
548	SO241	8412.5	78
549	SO242	8397.5	168
550	SO243	8382.5	258
551	SO244	8367.5	78
552	SO245	8352.5	168
553	SO246	8337.5	258
554	SO247	8322.5	78
555	SO248	8307.5	168
556	SO249	8292.5	258
	SO250	8277.5	
557	SO250 SO251	8277.5 8262.5	78
557 558	SO251	8262.5	78 168
557 558 559	SO251 SO252	8262.5 8247.5	78 168 258
557 558 559 560	SO251 SO252 SO253	8262.5 8247.5 8232.5	78 168 258 78
557 558 559 560 561	SO251 SO252 SO253 SO254	8262.5 8247.5 8232.5 8217.5	78 168 258 78 168
557 558 559 560 561 562	SO251 SO252 SO253 SO254 SO255	8262.5 8247.5 8232.5 8217.5 8202.5	78 168 258 78 168 258
557 558 559 560 561 562 563	SO251 SO252 SO253 SO254 SO255 SO256	8262.5 8247.5 8232.5 8217.5 8202.5 8187.5	78 168 258 78 168 258 78
557 558 559 560 561 562 563 564	SO251 SO252 SO253 SO254 SO255 SO256 SO257	8262.5 8247.5 8232.5 8217.5 8202.6 8187.5 8172.5	78 168 258 78 168 258 78 168
557 558 559 560 561 562 563 564 565	SO251 SO252 SO253 SO254 SO255 SO256 SO257 SO258	8262.5 8247.5 8232.5 8217.5 8202.6 8187.5 8172.5 8157.5	78 168 258 78 168 258 78 168 258
557 558 559 560 561 562 563 564 565 566	SO251 SO252 \$O253 \$O254 SO255 SO256 SO257 SO258 SO259	8262.5 8247.5 8232.5 8217.5 8202.5 8187.5 8172.5 8157.5 8142.5	78 168 258 78 168 258 78 168 258 78
557 558 559 560 561 562 563 564 565 566 567	SO251 SO252 \$0253 \$0254 SO255 SO256 SO257 SO258 SO259 SO260	8262.5 8247.5 8232.5 8217.5 8202.5 8187.5 8172.5 8157.5 8142.5 8127.5	78 168 258 78 168 258 78 168 258 78 168
557 558 559 560 561 562 563 564 565 566 567 568	SO251 SO252 \$O253 \$O254 SO255 SO256 SO257 SO258 SO259 SO260 SO261	8262.5 8247.5 8232.5 8217.5 8202.5 8187.5 8172.5 8157.5 8142.5 8127.5 8112.5	78 168 258 78 168 258 78 168 258 78 168 258
557 558 559 560 561 562 563 564 565 566 567	SO251 SO252 \$0253 \$0254 SO255 SO256 SO257 SO258 SO259 SO260	8262.5 8247.5 8232.5 8217.5 8202.5 8187.5 8172.5 8157.5 8142.5 8127.5	78 168 258 78 168 258 78 168 258 78 168
557 558 559 560 561 562 563 564 565 566 567 568 569	SO251 SO252 SO253 SO254 SO256 SO256 SO257 SO258 SO259 SO260 SO261 SO262 SO263	8262.5 8247.5 8232.5 8217.5 8202.6 8187.5 8172.5 8157.5 8142.5 8127.5 8112.5 8097.5	78 168 258 78 168 258 78 168 258 78 168 258 78
557 558 559 560 561 562 563 564 565 566 567 568 569 570	SO251 SO252 SO253 SO254 SO256 SO256 SO257 SO258 SO259 SO260 SO261 SO262 SO263 SO264	8262.5 8247.5 8232.5 8217.5 8202.5 8187.5 8172.5 8142.5 8127.5 8112.5 8097.5 8082.5 8067.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258
557 558 559 560 561 562 563 564 565 566 567 568 569 570	SO251 SO252 SO253 SO254 SO256 SO256 SO257 SO258 SO259 SO260 SO261 SO262 SO263	8262.5 8247.5 8232.5 8217.5 8202.6 8187.5 8172.5 8157.5 8142.5 8127.5 8112.5 8097.5	78 168 258 78 168 258 78 168 258 78 168 258 78
557 558 559 560 561 562 563 564 565 566 567 568 569 570	SO251 SO252 SO253 SO254 SO256 SO256 SO257 SO258 SO259 SO260 SO261 SO262 SO263 SO264	8262.5 8247.5 8232.5 8217.5 8202.5 8187.5 8172.5 8142.5 8127.5 8112.5 8097.5 8082.5 8067.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258
557 558 559 560 561 562 563 564 565 566 567 568 569 570 571	SO251 SO252 \$O253 \$O254 SO256 SO256 SO257 SO258 SO259 SO260 SO261 SO262 SO263 SO264 SO265	8262.5 8247.5 8232.5 8217.5 8202.5 8187.5 8172.5 8142.5 8127.5 8112.5 8097.5 8082.5 8067.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
557 558 559 560 561 562 563 564 565 566 566 567 568 569 570 571 572 573	SO251 SO252 SO253 SO254 SO256 SO256 SO257 SO258 SO259 SO260 SO261 SO262 SO263 SO264 SO265 SO266	8262.5 8247.5 8232.5 8217.5 8202.6 8187.5 8172.5 8142.5 8112.5 8112.5 8097.5 8082.5 8067.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573	SO251 SO252 \$O253 \$O254 SO256 SO256 SO257 SO258 SO259 SO260 SO261 SO262 SO263 SO264 SO265 SO266 SO266 SO266	8262.5 8247.5 8232.5 8217.5 8202.5 8187.5 8172.5 8142.5 8112.5 8112.5 8097.5 8082.5 8052.5 8022.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575	SO251 SO252 \$0253 \$0254 \$0255 \$0256 SO256 SO257 SO258 SO260 SO261 SO262 SO263 SO264 SO265 SO265 SO266 SO265 SO266	8262.5 8247.5 8232.5 8217.5 8202.5 8187.5 8172.5 8142.5 8112.5 8112.5 8097.5 8067.5 8052.5 8022.5 8007.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576	SO251 SO252 \$0253 \$0254 \$0255 \$0256 SO256 SO257 SO258 SO259 SO260 SO261 SO262 SO263 SO264 SO265 SO265 SO266 SO265 SO266 SO267 SO268 SO269 SO269 SO270	8262.5 8247.5 8232.5 8217.5 8202.5 8187.5 8172.5 8142.5 8112.5 8097.5 8097.5 8067.5 8052.5 8007.5 7992.5 7977.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168
557 558 559 560 561 562 563 564 565 566 567 568 570 571 572 573 574 575 576 577 578	SO251 SO252 \$0253 \$0254 \$0255 \$0256 \$0256 \$0257 SO258 SO259 SO260 SO261 SO262 SO262 SO263 SO264 SO265 SO266 SO266 SO266 SO267 SO268 SO269 SO269 SO269 SO270 SO271	8262.5 8247.5 8232.5 8217.5 8202.5 8187.5 8172.5 8142.5 8127.5 8112.5 8097.5 8067.5 8067.5 8052.5 8037.5 8007.5 7992.5 7992.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
557 558 559 560 561 562 563 564 565 566 567 568 570 571 572 573 574 575 576 577 578	SO251 SO252 \$0253 \$0254 \$0255 \$0256 \$0256 \$0257 SO258 SO259 SO260 SO261 SO262 SO263 SO264 SO265 SO265 SO266 SO267 SO268 SO267 SO268 SO269 SO270 SO271 SO272	8262.5 8247.5 8232.5 8217.5 8202.6 8187.5 8172.5 8142.5 8127.5 8112.5 8097.5 8067.5 8052.5 8067.5 807.5 7992.5 7962.5 7947.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580	SO251 SO252 SO253 SO254 SO255 SO256 SO256 SO257 SO258 SO259 SO260 SO261 SO262 SO263 SO264 SO265 SO266 SO266 SO267 SO268 SO269 SO270 SO271 SO272 SO273	8262.5 8247.5 8232.5 8217.5 8202.6 8187.5 8172.5 8142.5 8127.5 8112.5 8097.5 8082.5 8067.5 8052.5 8037.5 8022.5 8007.5 7992.5 7947.5 7932.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581	SO251 SO252 SO253 SO254 SO255 SO256 SO256 SO257 SO258 SO259 SO260 SO261 SO262 SO263 SO264 SO265 SO266 SO266 SO267 SO268 SO269 SO270 SO270 SO271 SO272 SO273 SO274	8262.5 8247.5 8232.5 8217.5 8202.6 8187.5 8172.5 8142.5 8127.5 8112.5 8097.5 8082.5 8067.5 8052.5 8067.5 7992.5 7992.5 7947.5 7932.5 7917.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 574 575 576 577 578 579 580 581 582	SO251 SO252 SO253 SO254 SO255 SO256 SO256 SO257 SO258 SO260 SO261 SO262 SO263 SO264 SO265 SO266 SO266 SO266 SO267 SO268 SO269 SO270 SO271 SO272 SO271 SO272 SO273 SO274 SO275	8262.5 8247.5 8232.5 8217.5 8202.6 8187.5 8172.5 8157.5 8142.5 8127.5 8097.5 8082.5 8067.5 8052.5 8007.5 7992.5 7962.5 7947.5 7932.5 7902.5	78 168 258 168 258 168 258 168 168 258 168 168 168 168 168 168 168 16
557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583	SO251 SO252 SO253 SO254 SO255 SO256 SO256 SO257 SO258 SO259 SO260 SO261 SO262 SO263 SO264 SO265 SO266 SO266 SO267 SO268 SO270 SO270 SO271 SO272 SO271 SO272 SO273 SO274 SO275 SO276	8262.5 8247.5 8232.5 8217.5 8202.6 8187.5 8172.5 8157.5 8142.5 8127.5 8127.5 8097.5 8067.5 8052.5 8037.5 8022.5 8007.5 7992.5 7947.5 7932.5 7902.5 7887.5	78 168 258 258 78 168 258 258 258 258 258 258 258 25
557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 574 575 576 577 578 579 580 581 582 583	SO251 SO252 SO253 SO254 SO255 SO256 SO256 SO257 SO258 SO259 SO260 SO261 SO262 SO263 SO264 SO265 SO266 SO267 SO268 SO269 SO270 SO271 SO272 SO273 SO274 SO275 SO276 SO276 SO276	8262.5 8247.5 8232.5 8217.5 8202.6 8187.5 8172.5 8157.5 8142.5 8127.5 8127.5 8097.5 8067.5 8067.5 8052.5 8052.5 8007.5 7992.5 7947.5 7947.5 7932.5 7872.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 78 78 78 78 78 78 78 78 78 78 78 78
557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585	SO251 SO252 SO253 SO254 SO255 SO256 SO256 SO257 SO258 SO259 SO260 SO261 SO262 SO263 SO264 SO265 SO266 SO267 SO268 SO269 SO270 SO271 SO272 SO273 SO274 SO275 SO276 SO276 SO277 SO278	8262.5 8247.5 8232.5 8217.5 8202.6 8187.5 8172.5 8157.5 8142.5 8127.5 8127.5 8097.5 8067.5 8052.5 8052.5 8007.5 7992.5 7962.5 7947.5 7932.5 7872.5 7857.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168
557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586	SO251 SO252 SO253 SO254 SO255 SO256 SO256 SO257 SO258 SO259 SO260 SO261 SO262 SO263 SO264 SO265 SO266 SO267 SO268 SO269 SO270 SO271 SO272 SO273 SO274 SO275 SO276 SO277 SO278 SO279	8262.5 8247.5 8232.5 8217.5 8202.6 8187.5 8172.5 8157.5 8142.5 8127.5 8097.5 8082.5 8067.5 8052.5 8007.5 7992.5 7947.5 7947.5 7947.5 7902.5 7857.5 7857.5 7842.5	78 168 258 258 78 168 258 258 168 258 258 258 168 258 258 258 258 258 258 258 25
557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587	SO251 SO252 SO253 SO254 SO255 SO256 SO256 SO257 SO258 SO259 SO260 SO261 SO262 SO263 SO264 SO265 SO266 SO267 SO268 SO269 SO270 SO271 SO272 SO273 SO274 SO275 SO276 SO277 SO278 SO279 SO279 SO280	8262.5 8247.5 8232.5 8217.5 8202.6 8187.5 8172.5 8142.5 8142.5 8127.5 8097.5 8082.5 8067.5 8052.5 8007.5 7992.5 7997.5 7947.5 7947.5 7947.5 7902.5 7857.5 7842.5 7827.5	78 168 258 258 258 258 258 258 258 25
557 558 559 560 561 562 563 564 565 566 567 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588	SO251 SO252 SO253 SO254 SO255 SO256 SO256 SO257 SO258 SO259 SO260 SO261 SO262 SO263 SO264 SO265 SO266 SO27 SO270 SO271 SO272 SO273 SO274 SO275 SO276 SO276 SO277 SO278 SO279 SO279 SO280 SO280 SO281	8262.5 8247.5 8232.5 8217.5 8202.6 8187.5 8172.5 8142.5 8112.5 8197.5 8097.5 8097.5 8067.5 8052.5 8067.5 7992.5 7997.5 7917.5 7917.5 7917.5 7917.5 7812.5 7827.5 7827.5 7827.5 7827.5 7827.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168
557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587	SO251 SO252 SO253 SO254 SO255 SO256 SO256 SO257 SO258 SO259 SO260 SO261 SO262 SO263 SO264 SO265 SO266 SO267 SO268 SO269 SO270 SO271 SO272 SO273 SO274 SO275 SO276 SO277 SO278 SO279 SO279 SO280	8262.5 8247.5 8232.5 8217.5 8202.6 8187.5 8172.5 8142.5 8142.5 8127.5 8097.5 8082.5 8067.5 8052.5 8007.5 7992.5 7997.5 7947.5 7947.5 7947.5 7902.5 7857.5 7842.5 7827.5	78 168 258 258 258 258 258 258 258 25

591	SO284	7767.5	168
592	SO285	7752.5	258
593	SO286	7737.5	78
594			
	SO287	7722.5	168
595	SO288	7707.5	258
	SO289	7692.5	78
597	SO290	7677.5	168
598	SO291	7662.5	258
599	SO292	7647.5	78
600	SO293	7632.5	168
601	SO294	7617.5	258
602	SO295	7602.5	78
603	SO296	7587.5	168
604	SO297	7572.5	258
605	SO298	7557.5	78
606	SO299	7542.5	168
	SO300	7527.5	258
608	SO301	7512.5	78
	SO302	7497.5	168
		7482.5	
610	SO303		258
611	SO304	7467.5	78
	SO305	7452.5	168
613	SO306	7437.5	258
614	SO307	7422.5	78
615	SO308	7407.5	168
616	SO309	7392.5	258
617	SO310	7377.5	78
618	SO311	7362.5	168
619	SO312	7347.5	258
620	SO313	7332.5	78
621	SO314	7317.5	168
	SO315	7302.5	258
623	SO316	7287.5	78
624	SO317	7272.5	168
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		12515	258
	SO318	7257.5 7242.5	258 78
626	SO319	7242.5	78
626 627	SO319 SO320	7242.5 7227.5	78 168
626 627 628	SO319 SO320 SO321	7242.5 7227.5 7212.5	78 168 258
626 627 628 629	\$0319 \$0320 \$0321 \$0322	7242.5 7227.5 7212.5 7197.5	78 168 258 78
626 627 628 629 630	\$0319 \$0320 \$0321 \$0322 \$0323	7242.5 7227.5 7212.5 7197.5 7182.5	78 168 258 78 168
626 627 628 629 630 631	\$0319 \$0320 \$0321 \$0322 \$0323 \$0324	7242.5 7227.5 7212.5 7197.5 7182.5 7167.5	78 168 258 78 168 258
626 627 628 629 630 631 632	\$0319 \$0320 \$0321 \$0322 \$0323 \$0324 \$0325	7242.5 7227.5 7212.5 7197.5 7182.5 7167.5 7152.5	78 168 258 78 168 258 78
626 627 628 629 630 631 632 633	\$0319 \$0320 \$0321 \$0322 \$0323 \$0324 \$0325 \$0326	7242.5 7227.5 7212.5 7197.5 7182.5 7167.5 7152.5 7137.5	78 168 258 78 168 258 78
626 627 628 629 630 631 632 633 634	\$0319 \$0320 \$0321 \$0322 \$0323 \$0324 \$0325 \$0326 \$0327	7242.5 7227.5 7212.5 7197.5 7182.5 7167.5 7152.5 7137.5 7122.5	78 168 258 78 168 258 78 168 258
626 627 628 629 630 631 632 633	\$0319 \$0320 \$0321 \$0322 \$0323 \$0324 \$0325 \$0326	7242.5 7227.5 7212.5 7197.5 7182.5 7167.5 7152.5 7137.5	78 168 258 78 168 258 78
626 627 628 629 630 631 632 633 634	\$0319 \$0320 \$0321 \$0322 \$0323 \$0324 \$0325 \$0326 \$0327	7242.5 7227.5 7212.5 7197.5 7182.5 7167.5 7152.5 7137.5 7122.5 7107.5 7092.5	78 168 258 78 168 258 78 168 258
626 627 628 629 630 631 632 633 634 635 636	\$0319 \$0320 \$0321 \$0322 \$0323 \$0324 \$0325 \$0326 \$0327 \$0328	7242.5 7227.5 7212.5 7197.5 7182.5 7167.5 7152.5 7137.5 7107.5	78 168 258 78 168 258 78 168 258 78
626 627 628 629 630 631 632 633 634 635 636	\$0319 \$0320 \$0321 \$0322 \$0323 \$0324 \$0325 \$0326 \$0327 \$0328 \$0329	7242.5 7227.5 7212.5 7197.5 7182.5 7167.5 7152.5 7137.5 7122.5 7107.5 7092.5	78 168 258 78 168 258 78 168 258 78
626 627 628 629 630 631 632 633 634 635 636	\$0319 \$0320 \$0321 \$0322 \$0323 \$0324 \$0325 \$0326 \$0327 \$0328 \$0329 \$0330	7242.5 7227.5 7212.5 7197.5 7182.5 7167.5 7152.5 7137.5 7122.5 7107.5 7092.5	78 168 258 78 168 258 78 168 258 78 168 258
626 627 628 629 630 631 632 633 634 635 636 637	\$0319 \$0320 \$0321 \$0322 \$0323 \$0324 \$0325 \$0326 \$0327 \$0328 \$0329 \$0330 \$0331	7242.5 7227.5 7212.5 7197.5 7182.5 7167.5 7152.5 7122.5 7107.5 7092.5 7062.5 7047.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258
626 627 628 629 630 631 632 633 634 635 636 637 638 639 640	\$0319 \$0320 \$0321 \$0322 \$0323 \$0324 \$0325 \$0326 \$0327 \$0328 \$0329 \$0330 \$0331 \$0332 \$0333	7242.5 7227.5 7212.5 7197.5 7182.5 7167.5 7152.5 7137.5 7107.5 7092.5 7077.5 7062.5 7047.5 7032.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258
626 627 628 629 630 631 632 633 634 635 636 637 638 639 640	\$0319 \$0320 \$0321 \$0322 \$0323 \$0324 \$0325 \$0326 \$0327 \$0328 \$0329 \$0330 \$0331 \$0332 \$0333 \$0334	7242.5 7227.5 7212.5 7197.5 7182.5 7167.5 7152.5 7107.5 7092.5 7077.5 7062.5 7047.5 7032.5 7017.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641	\$0319 \$0320 \$0321 \$0322 \$0323 \$0324 \$0325 \$0326 \$0327 \$0328 \$0329 \$0330 \$0331 \$0332 \$0333 \$0334	7242.5 7227.5 7212.5 7197.5 7182.5 7167.5 7137.5 7107.5 7092.5 7047.5 7032.5 7017.5 7002.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643	\$0319 \$0320 \$0321 \$0322 \$0323 \$0324 \$0325 \$0326 \$0327 \$0328 \$0329 \$0330 \$0331 \$0332 \$0333 \$0334 \$0335 \$0336	7242.5 7227.5 7212.5 7197.5 7182.5 7167.5 7137.5 7107.5 7092.5 7047.5 7047.5 7032.5 7017.5 7002.5 6987.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258
626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643	\$0319 \$0320 \$0321 \$0322 \$0323 \$0324 \$0325 \$0326 \$0327 \$0328 \$0329 \$0330 \$0331 \$0332 \$0333 \$0334 \$0335 \$0336 \$0337	7242.5 7227.5 7212.5 7197.5 7182.5 7167.5 7152.5 7107.5 7092.5 7047.5 7047.5 7047.5 7002.5 6987.5 6972.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644	\$0319 \$0320 \$0321 \$0322 \$0323 \$0324 \$0325 \$0326 \$0327 \$0328 \$0329 \$0330 \$0331 \$0332 \$0333 \$0334 \$0335 \$0336 \$0337 \$0338	7242.5 7227.5 7212.5 7197.5 7182.5 7167.5 7152.5 7107.5 7092.5 7047.5 7047.5 7047.5 7047.5 7047.5 7047.5 7047.5 7057.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168
626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645	\$0319 \$0320 \$0321 \$0322 \$0323 \$0324 \$0325 \$0326 \$0327 \$0328 \$0329 \$0330 \$0331 \$0332 \$0333 \$0334 \$0335 \$0336 \$0337 \$0338 \$0337	7242.5 7227.5 7212.5 7197.5 7182.5 7167.5 7152.5 7107.5 7092.5 7047.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646	\$0319 \$0320 \$0321 \$0322 \$0323 \$0324 \$0325 \$0326 \$0327 \$0328 \$0329 \$0330 \$0331 \$0332 \$0333 \$0334 \$0335 \$0336 \$0337 \$0338 \$0339 \$0340	7242.5 7227.5 7212.5 7197.5 7182.5 7167.5 7152.5 7107.5 7092.5 7047.5 7047.5 7017.5 6987.5 6957.5 6942.5 6927.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646	\$0319 \$0320 \$0321 \$0322 \$0323 \$0324 \$0325 \$0326 \$0327 \$0328 \$0329 \$0330 \$0331 \$0332 \$0333 \$0334 \$0335 \$0336 \$0337 \$0338 \$0337 \$0338 \$0339 \$0340 \$0341	7242.5 7227.5 7212.5 7197.5 7182.5 7167.5 7152.5 7107.5 7092.5 7077.5 7062.5 7047.5 7002.5 6987.5 6987.5 6927.5 6927.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168
626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648	\$0319 \$0320 \$0321 \$0322 \$0323 \$0324 \$0325 \$0326 \$0327 \$0328 \$0329 \$0330 \$0331 \$0332 \$0333 \$0334 \$0335 \$0336 \$0337 \$0338 \$0339 \$0340 \$0341 \$0342	7242.5 7227.5 7212.5 7197.5 7182.5 7167.5 7152.5 7107.5 7092.5 7047.5 7047.5 7002.5 6987.5 6957.5 6927.5 6912.5 6897.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258
626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650	\$0319 \$0320 \$0321 \$0322 \$0323 \$0324 \$0325 \$0326 \$0327 \$0328 \$0329 \$0330 \$0331 \$0332 \$0333 \$0334 \$0335 \$0336 \$0337 \$0338 \$0339 \$0340 \$0341 \$0342 \$0343	7242.5 7227.5 7212.5 7197.5 7182.5 7167.5 7152.5 7107.5 7092.5 7047.5 7047.5 7002.5 6987.5 6957.5 6927.5 69912.5 6897.5 6882.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651	\$0319 \$0320 \$0321 \$0322 \$0323 \$0324 \$0325 \$0326 \$0327 \$0328 \$0329 \$0330 \$0331 \$0332 \$0333 \$0334 \$0335 \$0336 \$0337 \$0338 \$0339 \$0340 \$0341 \$0342 \$0343 \$0344	7242.5 7227.5 7212.5 7197.5 7182.5 7167.5 7152.5 7137.5 7107.5 7092.5 7047.5 7047.5 7047.5 7017.5 6987.5 6987.5 6927.5 6927.5 6912.5 6882.5 6867.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168
626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651	\$0319 \$0320 \$0321 \$0322 \$0323 \$0324 \$0325 \$0326 \$0327 \$0328 \$0329 \$0330 \$0331 \$0332 \$0333 \$0334 \$0335 \$0336 \$0337 \$0338 \$0339 \$0340 \$0341 \$0342 \$0343 \$0344 \$0345	7242.5 7227.5 7212.5 7197.5 7182.5 7167.5 7152.5 7137.5 7107.5 7092.5 7047.5 7047.5 7017.5 7002.5 6987.5 6972.5 6927.5 6927.5 6882.5 6867.5 6852.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651	\$0319 \$0320 \$0321 \$0322 \$0323 \$0324 \$0325 \$0326 \$0327 \$0328 \$0329 \$0330 \$0331 \$0332 \$0333 \$0334 \$0335 \$0336 \$0337 \$0338 \$0339 \$0340 \$0341 \$0342 \$0343 \$0344	7242.5 7227.5 7212.5 7197.5 7182.5 7167.5 7152.5 7137.5 7107.5 7092.5 7047.5 7047.5 7047.5 7017.5 6987.5 6987.5 6927.5 6927.5 6912.5 6882.5 6867.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168
626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651	\$0319 \$0320 \$0321 \$0322 \$0323 \$0324 \$0325 \$0326 \$0327 \$0328 \$0329 \$0330 \$0331 \$0332 \$0333 \$0334 \$0335 \$0336 \$0337 \$0338 \$0339 \$0340 \$0341 \$0342 \$0343 \$0344 \$0345	7242.5 7227.5 7212.5 7197.5 7182.5 7167.5 7152.5 7137.5 7107.5 7092.5 7047.5 7047.5 7017.5 7002.5 6987.5 6972.5 6927.5 6927.5 6882.5 6867.5 6852.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653	\$0319 \$0320 \$0321 \$0322 \$0323 \$0324 \$0325 \$0326 \$0327 \$0328 \$0329 \$0330 \$0331 \$0332 \$0333 \$0334 \$0335 \$0336 \$0337 \$0338 \$0339 \$0340 \$0341 \$0342 \$0343 \$0344 \$0345 \$0346	7242.5 7227.5 7212.5 7197.5 7182.5 7167.5 7152.5 7137.5 7107.5 7092.5 7047.5 7047.5 7047.5 7017.5 6987.5 6987.5 6927.5 6982.5 6882.5 6867.5 6852.5 6837.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 78 78 78 78 78 78 78 78 78 78 78 78
626 627 628 629 630 631 632 633 634 635 636 637 638 640 641 642 643 644 645 646 647 648 649 650 651 652 653	\$0319 \$0320 \$0321 \$0322 \$0323 \$0324 \$0325 \$0326 \$0327 \$0328 \$0329 \$0330 \$0331 \$0332 \$0333 \$0333 \$0334 \$0335 \$0336 \$0337 \$0338 \$0339 \$0340 \$0341 \$0342 \$0343 \$0344 \$0345 \$0346 \$0347	7242.5 7227.5 7212.5 7197.5 7182.5 7167.5 7152.5 7137.5 7107.5 7092.5 7047.5 7047.5 7017.5 7017.5 6987.5 6972.5 6927.5 6942.5 6927.5 6882.5 6867.5 6852.5 6837.5 6822.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168

	657	SO350	6777.5	168
	658	SO351	6762.5	258
		SO352		
			6747.5	78
	660	SO353	6732.5	168
	661	SO354	6717.5	258
	662	SO355	6702.5	78
	663	SO356	6687.5	168
		SO357	6672.5	258
	665	SO358	6657.5	78
	666	SO359	6642.5	168
	667	SO360	6627.5	258
	668	SO361	6612.5	78
	669	SO362	6597.5	168
	670	SO363	6582.5	258
	671	SO364	6567.5	78
	672	SO365	6552.5	168
	673	SO366	6537.5	258
	674	SO367	6522.5	78
	675	SO368	6507.5	1 68
	676	SO369	6492.5	258
	_			
		SO370	6477.5	78
	678	SO371	6462.5	168
7	679	SO372	6447.5	258
11	680	SO373	6432.5	78
V	681	SO374	6417.5	168
	682	SO375	6402.5	258
	683			
	11.11	SO376	6387.5	78
	684	SO377	6372.5	168
	685	SO378	6357.5	258
6	686	SO379	6342.5	78
	687	SO380	6327.5	168
	688	SO381	6312.5	258
	689	SO382	6297.5	78
	690	SO383	6282.5	168
	691	SO384	6267.5	258
	692	SO385	6252.5	78
	693	SO386	6237.5	168
	694	SO387	6222.5	258
		SO388	6207.5	78
	696	SO389	6192.5	168
	697	SO390	6177.5	258
	698	SO391	6162.5	78
	699	SO392	6147.5	168
		SO393	6132.5	258
	700			
	701	SO394	6117.5	78
	702	SO395	6102.5	168
	703	SO396	6087.5	258
	704	SO397	6072.5	78
	705	SO398	6057.5	168
		SO399	6042.5	258
	706			
	707	SO400	6027.5	78
	708	SO401	6012.5	168
	709	SO402	5997.5	258
	710	SO403	5982.5	78
	711	SO404	5967.5	168
	712	SO405	5952.5	258
	713	SO406	5937.5	78
	714	SO407	5922.5	168
	715	SO408	5907.5	258
	716	SO409	5892.5	78
	717	SO410	5877.5	168
	718	SO411	5862.5	258
	719	SO412	5847.5	78
	720	SO413	5832.5	168
	721	SO414	5817.5	258
	722	SO415	5802.5	78
,				<u>-</u>



855 SO548

723	SO416	5787.5	168
724	SO417	5772.5	258
725	SO417 SO418	5757.5	78
726	SO419	5742.5	168
727	SO420	5727.5	258
728	SO421	5712.5	78
729	SO422	5697.5	168
730	SO423	5682.5	258
731	SO424	5667.5	78
732	SO425	5652.5	168
733	SO426	5637.5	258
734	SO427	5622.5	78
735	SO428	5607.5	168
736	SO429	5592.5	258
737	SO430	5577.5	78
738	SO431	5562.5	168
739	SO432	5547.5	258
740	SO433	5532.5	78
	SO434	5517.5	168
742		5502.5	
743	SO435 SO436		258
		5487.5	78
	SO437	5472.5	168
745	SO438	5457.5	258
746	SO439	5442.5	78
747	SO440	5427.5	168
748	SO441	5412.5	258
749	SO442	5397.5	78
750	SO443	5382.5	168
751	SO444	5367.5	258
752	SO445	5352.5	78
753	SO446	5337.5	168
754	SO447	5322.5	258
	SO448		78
755	SO448 SO449	5307.5	78 168
755 756	SO449 []	5307.5 5292.5	168
755 756 757	SO449 SO450	5307.5 5292.5 5277.5	168 258
755 756 757 758	SO449 SO450 SO451	5307.5 5292.5 5277.5 5262.5	168 258 78
755 756 757 758 759	SO449 SO450 SO451 SO452	5307.5 5292.5 5277.5 5262.5 5247.5	168 258 78 168
755 756 757 758 759 760	SO449 SO450 SO451 SO452 SO453	5307.5 6292.5 5277.5 5262.5 5247.5 5232.6	168 258 78 168 258
755 756 757 758 759 760 761	SO449 SO450 SO451 SO452 SO453 SO454	5307.5 5292.5 5277.5 5262.5 5247.5 5232.5 5217.5	168 258 78 168 258 78
755 756 757 758 759 760 761 762	SO449 SO450 SO451 SO452 SO453 SO454 SO455	5307.5 5292.5 5277.5 5262.5 5247.5 5232.5 5217.5 5202.5	168 258 78 168 258 78 168
755 756 757 758 759 760 761 762 763	SO449 SO450 SO451 SO452 SO453 SO454 SO455 SO456	5307.5 5292.5 5277.5 5262.5 5247.5 5232.6 5217.5 5202.5 5187.5	168 258 78 168 258 78 168 258
755 756 757 758 759 760 761 762 763 764	SO449 SO450 SO451 SO452 SO453 SO454 SO455 SO456 SO457	5307.5 6292.5 5277.5 5262.5 5247.5 5232.6 5217.5 5202.5 5187.5 5172.5	168 258 78 168 258 78 168 258 78
755 756 757 758 759 760 761 762 763 764 765	SO449 SO450 SO451 SO452 SO453 SO454 SO455 SO456 SO457 SO458	5307.5 5292.5 5277.5 5262.5 5247.5 5232.6 5217.5 5202.5 5172.5 5157.5	168 258 78 168 258 78 168 258 78 168
755 756 757 758 759 760 761 762 763 764 765 766	SO449 SO450 SO451 SO452 SO453 SO454 SO455 SO456 SO457 SO458 SO459	5307.5 5292.5 5277.5 5262.5 5247.5 5232.6 5217.5 5202.5 5172.5 5157.5 5142.5	168 258 78 168 258 78 168 258 78 168 258 258
755 756 757 758 759 760 761 762 763 764 765 766	SO449 SO450 SO451 SO452 SO453 SO454 SO455 SO456 SO457 SO458 SO459 SO460	5307.5 5292.5 5277.5 5262.5 5247.5 5232.6 5217.5 5202.5 5172.5 5157.5 5142.5 5127.5	168 258 78 168 258 78 168 258 78 168 258 78
755 756 757 758 759 760 761 762 763 764 765 766 767	SO449 SO450 SO451 SO452 SO453 SO454 SO455 SO456 SO457 SO458 SO459 SO460 SO461	5307.5 5292.5 5277.5 5262.5 5247.5 5232.6 5217.5 5202.5 5172.5 5157.5 5142.5 5112.5	168 258 78 168 258 78 168 258 78 168 258 78 168
755 756 757 758 759 760 761 762 763 764 765 766 767 768 769	SO449 SO450 SO451 SO452 SO453 SO454 SO455 SO456 SO457 SO458 SO459 SO460 SO461 SO462	5307.5 5292.5 5277.5 5262.5 5247.5 5232.6 5217.5 5202.5 5172.5 5157.5 5142.5 5127.5 5112.5 5097.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258
755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770	SO449 SO450 SO451 SO452 SO453 SO454 SO455 SO456 SO457 SO458 SO459 SO460 SO461 SO462 SO463	5307.5 5292.5 5277.5 5262.5 5247.5 5232.6 5217.5 5172.5 5172.5 5142.5 5127.5 5112.5 5097.5 5082.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770	SO449 SO450 SO451 SO452 SO453 SO454 SO455 SO456 SO457 SO458 SO459 SO460 SO461 SO462 SO463 SO464	5307.5 5292.5 5277.5 5262.5 5247.5 5232.6 5217.5 5172.5 5172.5 5142.5 5142.5 5112.5 5097.5 5082.5 5067.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258
755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770	SO449 SO450 SO451 SO452 SO453 SO454 SO455 SO456 SO457 SO458 SO459 SO460 SO461 SO462 SO463	5307.5 5292.5 5277.5 5262.5 5247.5 5232.6 5217.5 5172.5 5172.5 5142.5 5127.5 5112.5 5097.5 5082.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 258
755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770	SO449 SO450 SO451 SO452 SO453 SO454 SO455 SO456 SO457 SO458 SO459 SO460 SO461 SO462 SO463 SO464	5307.5 5292.5 5277.5 5262.5 5247.5 5232.6 5217.5 5172.5 5172.5 5142.5 5127.5 5112.5 5097.5 5082.5 5067.5 5037.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770	SO449 SO450 SO451 SO452 SO453 SO454 SO455 SO456 SO457 SO458 SO459 SO460 SO461 SO462 SO463 SO464 SO465	5307.5 5292.5 5277.5 5262.5 5247.5 5232.6 5217.5 5172.5 5172.5 5142.5 5127.5 5112.5 5097.5 5082.5 5067.5 5052.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771	SO449 SO450 SO451 SO452 SO453 SO454 SO455 SO456 SO457 SO458 SO459 SO460 SO461 SO462 SO463 SO464 SO465 SO466	5307.5 5292.5 5277.5 5262.5 5247.5 5232.6 5217.5 5172.5 5172.5 5142.5 5127.5 5112.5 5097.5 5082.5 5067.5 5037.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168
755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773	SO449 SO450 SO451 SO452 SO453 SO454 SO455 SO456 SO457 SO458 SO459 SO460 SO461 SO462 SO463 SO464 SO465 SO465 SO466 SO465	5307.5 5292.5 5277.5 5262.5 5247.5 5232.6 5217.5 5172.5 5172.5 5142.5 5127.5 5142.5 5127.5 5097.5 5082.5 5067.5 5052.5 5022.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168
755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774	SO449 SO450 SO450 SO451 SO452 SO453 SO454 SO455 SO456 SO457 SO458 SO459 SO460 SO461 SO462 SO463 SO464 SO465 SO465 SO465 SO466 SO465	5307.5 5292.5 5277.5 5262.5 5247.5 5232.6 5217.5 5172.5 5157.5 5142.5 5127.5 5112.5 5097.5 5082.5 5052.5 5022.5 5007.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258
755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775	SO449 SO450 SO450 SO451 SO452 SO453 SO454 SO455 SO456 SO457 SO458 SO459 SO460 SO461 SO462 SO463 SO464 SO465 SO465 SO466 SO465 SO466 SO467 SO468 SO469	5307.5 5292.5 5277.5 5262.5 5247.5 5232.5 5217.5 5172.5 5157.5 5142.5 5127.5 5112.5 5097.5 5082.5 5067.5 5052.5 5022.5 5007.5 4992.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776	SO449 SO450 SO450 SO451 SO452 SO453 SO454 SO455 SO456 SO457 SO458 SO459 SO460 SO461 SO462 SO463 SO464 SO465 SO466 SO467 SO466 SO467 SO468 SO469 SO470	5307.5 5292.5 5277.5 5262.5 5247.5 5232.5 5217.5 5172.5 5157.5 5142.5 5127.5 5142.5 5097.5 5082.5 5067.5 5052.5 5022.5 5007.5 4992.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168
755 756 757 758 759 760 761 762 763 764 765 766 767 768 770 771 772 773 774 775 776 777	SO449 SO450 SO450 SO451 SO452 SO453 SO454 SO455 SO456 SO457 SO458 SO459 SO460 SO461 SO462 SO462 SO463 SO464 SO465 SO466 SO466 SO467 SO468 SO469 SO470 SO471	5307.5 5292.5 5277.5 5262.5 5247.5 5232.6 5217.5 5172.5 5157.5 5142.5 5127.5 5197.5 5097.5 5067.5 5052.5 5037.5 5022.5 5007.5 4992.5 4977.5 4962.5 4947.5	168 258 78 78 168 258 78 78 78 78 78 78 78 78 78 7
755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778	SO449 SO450 SO450 SO451 SO452 SO453 SO454 SO455 SO456 SO457 SO458 SO459 SO460 SO461 SO462 SO463 SO464 SO465 SO466 SO466 SO466 SO467 SO468 SO469 SO470 SO471 SO472 SO473	5307.5 5292.5 5277.5 5262.5 5247.5 5232.6 5217.5 5172.5 5157.5 5142.5 5127.5 5127.5 5102.5 5067.5 5052.5 5037.5 5022.5 5007.5 4992.5 4977.5 4962.5 4932.5	168 258 78 168 258 168 168 168 168 168 168 168 16
755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781	SO449 SO450 SO450 SO451 SO452 SO453 SO454 SO455 SO456 SO457 SO458 SO459 SO460 SO461 SO462 SO463 SO464 SO465 SO466 SO466 SO466 SO466 SO467 SO468 SO469 SO470 SO471 SO472 SO473 SO474	5307.5 5292.5 5277.5 5262.5 5247.5 5232.6 5217.5 5172.5 5172.5 5127.5 5127.5 5197.5 5097.5 5067.5 5052.5 5037.5 5022.5 5007.5 4992.5 4977.5 4962.5 4917.5	168 258 78 168 258 258 78 168 258 258 258 258 258 258 258 25
755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781	SO449 SO450 SO450 SO451 SO452 SO453 SO454 SO455 SO456 SO457 SO458 SO459 SO460 SO461 SO462 SO463 SO464 SO465 SO466 SO467 SO468 SO469 SO470 SO471 SO472 SO473 SO474 SO475	5307.5 5292.5 5277.5 5262.5 5247.5 5232.6 5217.5 5172.5 5157.5 5142.5 5127.5 5127.5 5097.5 5082.5 5067.5 5052.5 5037.5 5022.5 5007.5 4992.5 4977.5 4962.5 4917.5 4902.5	168 258 78 78 168 258 78 78 78 78 78 78 78 78 78 7
755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783	SO449 SO450 SO450 SO451 SO452 SO453 SO454 SO455 SO456 SO457 SO458 SO459 SO460 SO461 SO462 SO463 SO464 SO465 SO466 SO467 SO468 SO469 SO470 SO471 SO472 SO473 SO474 SO475 SO476	5307.5 5292.5 5277.5 5262.5 5247.5 5232.6 5217.5 5172.5 5157.5 5142.5 5127.5 5197.5 5082.5 5067.5 5052.5 5067.5 5052.5 5007.5 4992.5 4917.5 4902.5 4887.5	168 258 78 168 168 258 78 168 168 168 168 168 168 168 16
755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783	SO449 SO450 SO450 SO451 SO452 SO453 SO454 SO455 SO456 SO457 SO458 SO459 SO460 SO461 SO462 SO463 SO464 SO465 SO466 SO467 SO468 SO469 SO470 SO471 SO472 SO473 SO474 SO475 SO476 SO476	5307.5 5292.5 5277.5 5262.5 5247.5 5202.5 5172.5 5157.5 5142.5 5127.5 5142.5 5097.5 5082.5 5067.5 5067.5 5067.5 507.5 4992.5 4977.5 4962.5 4917.5 4902.5 487.5	168 258 78 168 258 258 78 168 258 258 78 168 258 258 258 78 168 258 258 258 258 258 258 258 25
755 756 757 758 759 760 761 762 763 764 765 766 767 768 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785	SO449 SO450 SO450 SO451 SO452 SO453 SO454 SO455 SO456 SO457 SO458 SO459 SO460 SO461 SO462 SO463 SO464 SO465 SO466 SO467 SO468 SO469 SO470 SO471 SO472 SO473 SO474 SO475 SO476 SO477 SO478	5307.5 5292.5 5277.5 5262.5 5247.5 5232.6 5217.5 5202.5 5187.5 5172.5 5142.5 5127.5 5097.5 5082.5 5067.5 5067.5 5022.5 5007.5 4992.5 4997.5 4962.5 4947.5 4902.5 4887.5 4887.5	168 258 78 78 168 258 78 78 168 258 78 78 78 78 78 78 78 78 78 7
755 756 757 758 759 760 761 762 763 764 765 766 767 778 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786	SO449 SO450 SO450 SO451 SO452 SO453 SO454 SO455 SO456 SO457 SO458 SO459 SO460 SO461 SO462 SO463 SO464 SO465 SO466 SO467 SO468 SO469 SO470 SO471 SO472 SO473 SO474 SO475 SO476 SO477 SO478 SO479	5307.5 5292.5 5277.5 5262.5 5247.5 5232.6 5217.5 5172.5 5172.5 5142.5 5127.5 5097.5 5082.5 5067.5 5097.5 5097.5 4942.5 4947.5 4962.5 4917.5 4902.5 4887.5 4887.5 4887.5	168 258 78 168 258 168 258 168 258 168 258 168 258 168 258 168 258 168 258 168 258 168 258 168 258 168 258 168 258 258 258 258 258 258 258 25
755 756 757 758 759 760 761 762 763 764 765 766 767 768 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785	SO449 SO450 SO450 SO451 SO452 SO453 SO454 SO455 SO456 SO457 SO458 SO459 SO460 SO461 SO462 SO463 SO464 SO465 SO466 SO467 SO468 SO469 SO470 SO471 SO472 SO473 SO474 SO475 SO476 SO477 SO478	5307.5 5292.5 5277.5 5262.5 5247.5 5232.6 5217.5 5202.5 5187.5 5172.5 5142.5 5127.5 5097.5 5082.5 5067.5 5067.5 5022.5 5007.5 4992.5 4997.5 4962.5 4947.5 4902.5 4887.5 4887.5	168 258 78 168 258 258 258 258 258 258 258 25

789	SO482	4797.5	168
790	SO483	4782.5	258
791	SO484	4767.5	78
792	SO485	4752.5	168
793	SO486	4737.5	258
794	SO487	4722.5	78
	SO488	4707.5	168
795			
796	SO489	4692.5	258
797	SO490	4677.5	78
798	SO491	4662.5	168
799	SO492	4647.5	258
800	SO493	4632.5	78
801	SO494	4617.5	168
802	SO495	4602.5	258
803	SO496	4587.5	78
804	SO497	4572.5	168
805	SO498	4557.5	258
806	SO499	4542.5	78
807	SO500	4527.5	168
808	SO501	4512.5	258
809	SO502	4497.5	78
		4482.5	168
810	SO503		
811	SO504		258
812	SO505	4452.5	78
813	SO506	4437.5	168
814	SO507	4422.5	258
815	SO508	4407.5	78
816	SO509	4392.5	168
817	SO510	4377.5	258
818	SO511	4362.5	78
819	SO512	4347.5	168
820	SO513	4332.5	258
821	SO514		
		4517.3	/ 0
		4317.5 4302.5	78 168
822	SO515	4302.5	168
822 823	SO515 SO516	4302.5 4287.5	168 258
822 823 824	SO515 SO516 SO517	4302.5 4287.5 4272.5	168 258 78
822 823 824 825	SO515 SO516 SO517 SO518	4302.5 4287.5 4272.5 4257.5	168 258 78 168
822 823 824 825 826	\$0515 \$0516 \$0517 \$0518 \$0519	4302.5 4287.5 4272.5 4257.5 4242.5	168 258 78 168 258
822 823 824 825 826 827	\$0515 \$0516 \$0517 \$0518 \$0519 \$0520	4302.5 4287.5 4272.5 4257.5 4242.5 4227.5	168 258 78 168 258 78
822 823 824 825 826 827 828	\$0515 \$0516 \$0517 \$0518 \$0519 \$0520 \$0521	4302.5 4287.5 4272.5 4257.5 4242.5 4227.5 4212.5	168 258 78 168 258 78 168
822 823 824 825 826 827 828 829	\$0515 \$0516 \$0517 \$0518 \$0519 \$0520 \$0521 \$0522	4302.5 4287.5 4272.5 4257.5 4242.5 4227.5 4212.5 4197.5	168 258 78 168 258 78 168 258
822 823 824 825 826 827 828 829 830	\$0515 \$0516 \$0517 \$0518 \$0519 \$0520 \$0521 \$0522 \$0523	4302.5 4287.5 4272.5 4257.5 4242.5 4227.5 4212.5 4197.5 4182.5	168 258 78 168 258 78 168 258 78
822 823 824 825 826 827 828 829 830 831	\$0515 \$0516 \$0517 \$0518 \$0519 \$0520 \$0521 \$0522 \$0523 \$0524	4302.5 4287.5 4272.5 4257.5 4242.5 4227.5 4212.5 4197.5 4182.5 4167.5	168 258 78 168 258 78 168 258 78 168
822 823 824 825 826 827 828 829 830 831 832	\$0515 \$0516 \$0517 \$0518 \$0519 \$0520 \$0521 \$0522 \$0523 \$0524 \$0525	4302.5 4287.5 4272.5 4257.5 4242.5 4227.5 4212.5 4197.5 4182.5 4167.5 4152.5	168 258 78 168 258 78 168 258 78 168 258
822 823 824 825 826 827 828 829 830 831	\$0515 \$0516 \$0517 \$0518 \$0519 \$0520 \$0521 \$0522 \$0523 \$0524 \$0525 \$0526	4302.5 4287.5 4272.5 4257.5 4242.5 4227.5 4212.5 4197.5 4182.5 4167.5	168 258 78 168 258 78 168 258 78 168 258 78
822 823 824 825 826 827 828 829 830 831 832	\$0515 \$0516 \$0517 \$0518 \$0519 \$0520 \$0521 \$0522 \$0523 \$0524 \$0525	4302.5 4287.5 4272.5 4257.5 4242.5 4227.5 4212.5 4197.5 4182.5 4167.5 4152.5	168 258 78 168 258 78 168 258 78 168 258 78
822 823 824 825 826 827 828 829 830 831 832 833	\$0515 \$0516 \$0517 \$0518 \$0519 \$0520 \$0521 \$0522 \$0523 \$0524 \$0525 \$0526	4302.5 4287.5 4272.5 4257.5 4242.5 4227.5 4197.5 4182.5 4167.5 4152.5 4137.5	168 258 78 168 258 78 168 258 78 168 258 78
822 823 824 825 826 827 828 829 830 831 832 833 834	\$0515 \$0516 \$0517 \$0518 \$0519 \$0520 \$0521 \$0522 \$0523 \$0524 \$0525 \$0526 \$0527	4302.5 4287.5 4272.5 4257.5 4242.5 4212.5 4197.5 4182.5 4167.5 4152.5 4137.5 4122.5	168 258 78 168 258 78 168 258 78 168 258 78
822 823 824 825 826 827 828 829 830 831 832 833 834	\$0515 \$0516 \$0517 \$0518 \$0519 \$0520 \$0521 \$0522 \$0523 \$0524 \$0525 \$0526 \$0527 \$0528 \$0529	4302.5 4287.5 4272.5 4257.5 4242.5 4212.5 4197.5 4182.5 4167.5 4152.5 4137.5 4107.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258
822 823 824 825 826 827 828 829 830 831 832 833 834 835	\$0515 \$0516 \$0517 \$0518 \$0519 \$0520 \$0521 \$0522 \$0523 \$0524 \$0525 \$0526 \$0527 \$0528 \$0529 \$0530	4302.5 4287.5 4272.5 4257.5 4242.5 4212.5 4197.5 4167.5 4152.5 4137.5 4107.5 4092.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838	\$0515 \$0516 \$0517 \$0518 \$0519 \$0520 \$0521 \$0522 \$0523 \$0524 \$0525 \$0526 \$0527 \$0528 \$0529 \$0531	4302.5 4287.5 4272.5 4257.5 4242.5 4212.5 4197.5 4167.5 4152.5 4152.5 4107.5 4092.5 4062.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258
822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838	\$0515 \$0516 \$0517 \$0518 \$0519 \$0520 \$0521 \$0522 \$0523 \$0524 \$0525 \$0526 \$0527 \$0528 \$0529 \$0530 \$0531 \$0532	4302.5 4287.5 4272.5 4257.5 4242.5 4212.5 4197.5 4167.5 4152.5 4137.5 4107.5 4092.5 4062.5 4047.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840	\$0515 \$0516 \$0517 \$0518 \$0519 \$0520 \$0521 \$0522 \$0523 \$0524 \$0525 \$0525 \$0526 \$0527 \$0528 \$0529 \$0530 \$0531 \$0532 \$0533	4302.5 4287.5 4272.5 4257.5 4242.5 4212.5 4197.5 4167.5 4152.5 4137.5 4107.5 4092.5 4077.5 4062.5 4032.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840	\$0515 \$0516 \$0517 \$0518 \$0519 \$0520 \$0521 \$0522 \$0523 \$0524 \$0525 \$0526 \$0527 \$0528 \$0529 \$0530 \$0531 \$0532	4302.5 4287.5 4272.5 4257.5 4242.5 4212.5 4197.5 4167.5 4152.5 4137.5 4107.5 4092.5 4077.5 4062.5 4032.5 4017.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258
822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841	\$0515 \$0516 \$0517 \$0518 \$0519 \$0520 \$0521 \$0522 \$0523 \$0524 \$0525 \$0525 \$0526 \$0527 \$0528 \$0529 \$0530 \$0531 \$0532 \$0533	4302.5 4287.5 4272.5 4257.5 4242.5 4212.5 4197.5 4167.5 4152.5 4107.5 4092.5 4047.5 4032.5 4017.5 4002.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843	\$0515 \$0516 \$0517 \$0518 \$0519 \$0520 \$0521 \$0522 \$0523 \$0524 \$0525 \$0526 \$0526 \$0527 \$0528 \$0529 \$0530 \$0531 \$0532 \$0533 \$0534 \$0535 \$0536	4302.5 4287.5 4272.5 4257.5 4242.5 4212.5 4197.5 4167.5 4152.5 4107.5 4002.5 4002.5 4002.5 3987.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168
822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844	\$0515 \$0516 \$0517 \$0518 \$0519 \$0520 \$0521 \$0522 \$0523 \$0524 \$0525 \$0526 \$0527 \$0526 \$0527 \$0528 \$0529 \$0530 \$0531 \$0532 \$0533 \$0534 \$0535 \$0534 \$0535 \$0534	4302.5 4287.5 4272.5 4257.5 4242.5 4212.5 4197.5 4167.5 4167.5 4107.5 4002.5 4047.5 4017.5 4017.5 4017.5 4017.5 4017.5 4017.5 4017.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258
822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844	\$0515 \$0516 \$0517 \$0518 \$0519 \$0520 \$0521 \$0522 \$0523 \$0524 \$0525 \$0525 \$0526 \$0527 \$0528 \$0529 \$0530 \$0531 \$0532 \$0533 \$0534 \$0535 \$0536 \$0537 \$0538	4302.5 4287.5 4272.5 4257.5 4242.5 4212.5 4197.5 4167.5 4167.5 4107.5 4107.5 4092.5 4092.5 4017.5 4002.5 3987.5 3957.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846	\$0515 \$0516 \$0517 \$0518 \$0519 \$0520 \$0521 \$0522 \$0523 \$0524 \$0525 \$0525 \$0526 \$0527 \$0528 \$0529 \$0530 \$0531 \$0532 \$0533 \$0534 \$0535 \$0536 \$0537 \$0536 \$0537	4302.5 4287.5 4272.5 4257.5 4242.5 4212.5 4197.5 4182.5 4167.5 4107.5 4107.5 4092.5 4077.5 4047.5 4047.5 4017.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168
822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847	\$0515 \$0516 \$0517 \$0518 \$0519 \$0520 \$0521 \$0522 \$0523 \$0524 \$0525 \$0525 \$0526 \$0527 \$0528 \$0527 \$0528 \$0529 \$0530 \$0531 \$0532 \$0533 \$0534 \$0535 \$0534 \$0535 \$0536 \$0537 \$0536 \$0537 \$0538 \$0539 \$0539 \$0539 \$0539 \$0539 \$0539 \$0539 \$0539 \$0539 \$0539 \$0539 \$0539 \$0539 \$0539 \$0536 \$0537 \$0536 \$0537 \$0536 \$0537 \$0536 \$0537 \$0536 \$0537 \$0536 \$0537 \$0536 \$0537 \$0536 \$0537 \$0536 \$0537 \$0536 \$0537 \$0536 \$0537 \$0536 \$0537 \$0536 \$0537 \$0536 \$0537 \$0536 \$0536 \$0537 \$0536 \$0537 \$0536 \$0537 \$0536 \$0536 \$0537 \$0536 \$0537 \$0536	4302.5 4287.5 4272.5 4257.5 4242.5 4212.5 4197.5 4182.5 4167.5 4107.5 4002.5 4077.5 4047.5 4047.5 4017.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258
822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 840 841 842 843 844 845 846 847	\$0515 \$0516 \$0517 \$0518 \$0519 \$0520 \$0521 \$0522 \$0523 \$0524 \$0525 \$0525 \$0526 \$0527 \$0528 \$0529 \$0530 \$0531 \$0532 \$0533 \$0534 \$0535 \$0536 \$0537 \$0536 \$0537	4302.5 4287.5 4272.5 4257.5 4242.5 4212.5 4197.5 4167.5 4167.5 4107.5 4002.5 4077.5 4047.5 4047.5 4017.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168
822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848	\$0515 \$0516 \$0517 \$0518 \$0519 \$0520 \$0521 \$0522 \$0523 \$0524 \$0525 \$0526 \$0527 \$0528 \$0527 \$0528 \$0529 \$0530 \$0531 \$0532 \$0533 \$0534 \$0535 \$0536 \$0537 \$0536 \$0537 \$0538 \$0539 \$0540 \$0541 \$0542	4302.5 4287.5 4272.5 4257.5 4242.5 4212.5 4197.5 4182.5 4167.5 4107.5 4002.5 4047.5 4047.5 4047.5 4047.5 4047.5 3987.5 3987.5 3927.5 3912.5 3897.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168
822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 840 841 842 843 844 845 846 847	\$0515 \$0516 \$0517 \$0518 \$0519 \$0520 \$0521 \$0522 \$0523 \$0524 \$0525 \$0525 \$0526 \$0527 \$0528 \$0529 \$0530 \$0531 \$0532 \$0533 \$0534 \$0535 \$0536 \$0537 \$0536 \$0537 \$0538 \$0539 \$0539 \$0539 \$0539 \$0539 \$0539 \$0539 \$0539 \$0539 \$0539 \$0539 \$0539 \$0539 \$0539 \$0539 \$0536 \$0537 \$0536 \$0537 \$0538 \$0537 \$0538 \$0538 \$0539 \$0539 \$0539 \$0539 \$0539 \$0539 \$0539 \$0539 \$0531 \$0531 \$0532 \$0533 \$0534 \$0535 \$0536 \$0537 \$0536 \$0536 \$0537 \$0536 \$0537 \$0536 \$0537 \$0536 \$0537 \$0536 \$0536 \$0537 \$0536 \$0537 \$0536 \$0537 \$0536 \$0537 \$0536 \$0537 \$0536 \$0537 \$0536 \$0537	4302.5 4287.5 4272.5 4257.5 4242.5 4212.5 4197.5 4167.5 4167.5 4107.5 4002.5 4077.5 4047.5 4047.5 4017.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848	\$0515 \$0516 \$0517 \$0518 \$0519 \$0520 \$0521 \$0522 \$0523 \$0524 \$0525 \$0526 \$0527 \$0528 \$0527 \$0528 \$0529 \$0530 \$0531 \$0532 \$0533 \$0534 \$0535 \$0536 \$0537 \$0536 \$0537 \$0538 \$0539 \$0540 \$0541 \$0542	4302.5 4287.5 4272.5 4257.5 4242.5 4212.5 4197.5 4182.5 4167.5 4107.5 4002.5 4047.5 4047.5 4047.5 4047.5 4047.5 3987.5 3987.5 3927.5 3912.5 3897.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168
822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850	\$0515 \$0516 \$0517 \$0518 \$0519 \$0520 \$0521 \$0522 \$0523 \$0524 \$0525 \$0526 \$0527 \$0528 \$0527 \$0528 \$0529 \$0530 \$0531 \$0532 \$0533 \$0534 \$0535 \$0536 \$0537 \$0536 \$0537 \$0538 \$0539 \$0540 \$0541 \$0542 \$0542 \$0542 \$0542 \$0543	4302.5 4287.5 4272.5 4257.5 4242.5 4212.5 4197.5 4167.5 4167.5 4107.5 4002.5 4077.5 4062.5 4047.5 4017.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258
822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851	\$0515 \$0516 \$0517 \$0518 \$0519 \$0520 \$0521 \$0522 \$0523 \$0524 \$0525 \$0526 \$0527 \$0528 \$0528 \$0529 \$0530 \$0531 \$0532 \$0533 \$0534 \$0535 \$0536 \$0537 \$0538 \$0539 \$0539 \$0540 \$0541 \$0542 \$0542 \$0542 \$0544	4302.5 4287.5 4287.5 4272.5 4257.5 4242.5 4197.5 4182.5 4167.5 4167.5 4107.5 4092.5 4002.5 4047.5 4002.5 3987.5 3972.5 3912.5 3897.5 3882.5 3867.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852	\$0515 \$0516 \$0517 \$0518 \$0519 \$0520 \$0521 \$0522 \$0523 \$0524 \$0525 \$0526 \$0527 \$0528 \$0529 \$0530 \$0531 \$0532 \$0533 \$0534 \$0535 \$0536 \$0537 \$0536 \$0537 \$0538 \$0539 \$0540 \$0541 \$0542 \$0544 \$0545	4302.5 4287.5 4272.5 4257.5 4242.5 4212.5 4197.5 4167.5 4167.5 4152.5 4107.5 4092.5 4077.5 4062.5 4047.5 4062.5 4017.5 4017.5 3987.5 3972.5 3972.5 3927.5 3912.5 3882.5 3852.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168

	633	50346	3607.3	100
	856	SO549	3792.5	258
		SO550	3777.5	78
	858	SO551	3762.5	168
	859	SO552	3747.5	258
	860	SO553	3732.5	78
	861	SO554	3717.5	168
		SO555	3702.5	258
	863	SO556	3687.5	78
	864	SO557	3672.5	168
		SO558	3657.5	258
		SO559	3642.5	78
		SO560	3627.5	168
	868	SO561	3612.5	258
	869	SO562	3597.5	78
		SO563	3582.5	168
		00000		
	871	SO564	3567.5	258
	872	SO565	3552.5	78
	873	SO566	3537.5	1 68
	874	SO567	3522.5	258
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		SO568	3507.5	78
	876	SO569	3492.5	168
	877	SO570	3477.5	258
1		SO571	3462.5	78
V				
-		SO572	3447.5	168
		SO573	3432.5	258
	881	SO574	3417.5	78
	882	SO575	3402.5	168
		SO576	3387.5	258
0		SO577	3372.5	78
	885	SO578	3357.5	168
	886	SO579	3342.5	258
	887	SO580	3327.5	78
		SO581	3312.5	168
	889	SO582	3297.5	258
	890	SO583	3282.5	78
	891	SO584	3267.5	168
	892	SO585	3252.5	258
		SO586	3237.5	78
	894	SO587	3222.5	168
	895	SO588	3207.5	258
	896	SO589	3192.5	78
			3177.5	168
		SO590		
		SO591	つりにつ に	
	000		3162.5	258
	899	SO592	3147.5	258 78
			3147.5	78
	900	SO593	3147.5 3132.5	78 168
	900 901	SO593 SO594	3147.5 3132.5 3117.5	78 168 258
	900 901 902	SO593 SO594 SO595	3147.5 3132.5 3117.5 3102.5	78 168 258 78
	900 901 902 903	SO593 SO594 SO595 SO596	3147.5 3132.5 3117.5 3102.5 3087.5	78 168 258 78 168
	900 901 902 903	SO593 SO594 SO595	3147.5 3132.5 3117.5 3102.5	78 168 258 78 168 258
	900 901 902 903 904	SO593 SO594 SO595 SO596 SO597	3147.5 3132.5 3117.5 3102.5 3087.5 3072.5	78 168 258 78 168 258
	900 901 902 903 904 905	SO593 SO594 SO595 SO596 SO597 SO598	3147.5 3132.5 3117.5 3102.5 3087.5 3072.5 3057.5	78 168 258 78 168 258 78
	900 901 902 903 904 905 906	SO593 SO594 SO595 SO596 SO597 SO598 SO599	3147.5 3132.5 3117.5 3102.5 3087.5 3072.5 3057.5 3042.5	78 168 258 78 168 258 78 168
	900 901 902 903 904 905 906 907	SO593 SO594 SO595 SO596 SO597 SO598 SO599 SO600	3147.5 3132.5 3117.5 3102.5 3087.5 3072.5 3057.5 3042.5 3027.5	78 168 258 78 168 258 78 168 258
	900 901 902 903 904 905 906	SO593 SO594 SO595 SO596 SO597 SO598 SO599	3147.5 3132.5 3117.5 3102.5 3087.5 3072.5 3057.5 3042.5	78 168 258 78 168 258 78 168
	900 901 902 903 904 905 906 907 908	SO593 SO594 SO595 SO596 SO597 SO598 SO599 SO600	3147.5 3132.5 3117.5 3102.5 3087.5 3072.5 3057.5 3042.5 3027.5	78 168 258 78 168 258 78 168 258
	900 901 902 903 904 905 906 907 908	SO593 SO594 SO595 SO596 SO597 SO598 SO599 SO600 SO601 SO602	3147.5 3132.5 3117.5 3102.5 3087.5 3072.5 3057.5 3042.5 3027.5 3012.5 2997.5	78 168 258 78 168 258 78 168 258 78
	900 901 902 903 904 905 906 907 908 909	SO593 SO594 SO595 SO596 SO597 SO598 SO599 SO600 SO601 SO602 SO603	3147.5 3132.5 3117.5 3102.5 3087.5 3072.5 3057.5 3042.5 3027.5 3012.5 2997.5	78 168 258 78 168 258 78 168 258 78 168 258
	900 901 902 903 904 905 906 907 908 909 910	SO593 SO594 SO595 SO596 SO597 SO598 SO599 SO600 SO601 SO602 SO603 SO604	3147.5 3132.5 3117.5 3102.5 3087.5 3072.5 3057.5 3042.5 3027.5 3012.5 2997.5 2982.5 2967.5	78 168 258 78 168 258 78 168 258 78 168 258 78
	900 901 902 903 904 905 906 907 908 909 910 911 912	SO593 SO594 SO595 SO596 SO597 SO598 SO599 SO600 SO601 SO602 SO603 SO604 SO605	3147.5 3132.5 3117.5 3102.5 3087.5 3072.5 3057.5 3042.5 3027.5 3012.5 2997.5 2982.5 2967.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
	900 901 902 903 904 905 906 907 908 909 910	SO593 SO594 SO595 SO596 SO597 SO598 SO599 SO600 SO601 SO602 SO603 SO604	3147.5 3132.5 3117.5 3102.5 3087.5 3072.5 3057.5 3042.5 3027.5 3012.5 2997.5 2982.5 2967.5	78 168 258 78 168 258 78 168 258 78 168 258 78
	900 901 902 903 904 905 906 907 908 909 910 911 912 913	SO593 SO594 SO595 SO596 SO597 SO598 SO599 SO600 SO601 SO602 SO603 SO604 SO605 SO606	3147.5 3132.5 3117.5 3102.5 3087.5 3072.5 3057.5 3042.5 3027.5 3012.5 2997.5 2982.5 2967.5 2952.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258
	900 901 902 903 904 905 906 907 908 909 910 911 912 913 914	SO593 SO594 SO595 SO596 SO597 SO598 SO599 SO600 SO601 SO602 SO603 SO604 SO605 SO606 SO606	3147.5 3132.5 3117.5 3102.5 3087.5 3072.5 3057.5 3042.5 3027.5 3012.5 2997.5 2982.5 2967.5 2952.5 2937.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
	900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915	SO593 SO594 SO595 SO596 SO597 SO598 SO699 SO600 SO601 SO602 SO603 SO604 SO605 SO606 SO607 SO607	3147.5 3132.5 3117.5 3102.5 3087.5 3072.5 3057.5 3042.5 3027.5 3012.5 2997.5 2982.5 2967.5 2937.5 2922.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 168 168
	900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916	SO593 SO594 SO595 SO596 SO597 SO598 SO600 SO601 SO602 SO603 SO604 SO605 SO606 SO607 SO606 SO607	3147.5 3132.5 3117.5 3102.5 3087.5 3072.5 3057.5 3042.5 3027.5 3012.5 2997.5 2982.5 2967.5 2952.5 2922.5 2907.5 2892.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
	900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916	SO593 SO594 SO595 SO596 SO597 SO598 SO699 SO600 SO601 SO602 SO603 SO604 SO605 SO606 SO607 SO607	3147.5 3132.5 3117.5 3102.5 3087.5 3072.5 3057.5 3042.5 3027.5 3012.5 2997.5 2982.5 2967.5 2937.5 2922.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 168 168
	900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917	SO593 SO594 SO595 SO596 SO597 SO598 SO600 SO601 SO602 SO603 SO604 SO605 SO606 SO607 SO608 SO609 SO609	3147.5 3132.5 3117.5 3102.5 3087.5 3072.5 3057.5 3042.5 3027.5 3012.5 2997.5 2982.5 2967.5 2952.5 2937.5 2922.5 2907.5 2892.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 78 78 78 78
	900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918	SO593 SO594 SO595 SO596 SO597 SO598 SO600 SO601 SO602 SO603 SO603 SO604 SO605 SO606 SO607 SO608 SO609 SO609	3147.5 3132.5 3117.5 3102.5 3087.5 3072.5 3057.5 3042.5 3027.5 2997.5 2997.5 2967.5 2952.5 2937.5 2922.5 2907.5 2892.5 2892.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
	900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919	SO593 SO594 SO595 SO596 SO597 SO598 SO600 SO601 SO602 SO603 SO604 SO605 SO606 SO607 SO608 SO609 SO609	3147.5 3132.5 3117.5 3102.5 3087.5 3072.5 3057.5 3042.5 3012.5 2997.5 2982.5 2967.5 2952.5 2952.5 2907.5 2892.5 2877.5 2862.5 2847.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 258
	900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918	SO593 SO594 SO595 SO596 SO597 SO598 SO600 SO601 SO602 SO603 SO603 SO604 SO605 SO606 SO607 SO608 SO609 SO609	3147.5 3132.5 3117.5 3102.5 3087.5 3072.5 3057.5 3042.5 3027.5 2997.5 2997.5 2967.5 2952.5 2937.5 2922.5 2907.5 2892.5 2892.5	78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78



921	SO614	2817.5	168
922	SO615	2802.5	258
	SO616	2787.5	78
	SO617	2772.5	168
925	SO618		
		2757.5	258
	SO619	2742.5	78
927	SO620	2727.5	168
	SO621	2712.5	258
	SO622	2697.5	78
930	SO623	2682.5	168
931	SO624	2667.5	258
932	SO625	2652.5	78
933	SO626	2637.5	168
	SO627	2622.5	258
935	SO628	2607.5	78
	SO629	2592.5	168
	SO630	2577.5	258
938	SO631	2562.5	78
	SO632	2547.5	168
940	SO633	2532.5	258
941	SO634	2517.5	78
942	SO635	2502.5	168
943	SO636	2487.5	258
944	SO637	2472.5	78
	SO638	2457.5	168
946	SO639	2442.5	258
	SO640	2427.5	78
948	SO641	2412.5	168
			258
	SO642	2397.5	
	SO643	2382.5	78
951	SO644	2367.5	168
952	SO645	2352.5	258
953	SO646	2337.5	78
	SO646 SO647	2337.5 2322.5	78 168
954			11
954	SO647	2322.5	168
954 955	SO647 SO648 SO649	2322.5 2307.5 2292.5	168 258 78
954 955 956 957	SO647 SO648 SO649 SO650	2322.5 2307.5 2292.5 2277.5	168 258 78 168
954 955 956 957 958	SO647 SO648 SO649 SO650 SO651	2322.5 2307.5 2292.5 2277.5 2262.5	168 258 78 168 258
954 955 956 957 958 959	SO647 SO648 SO649 SO650 SO651 SO652	2322.5 2307.5 2292.5 2277.5 2262.5 2247.5	168 258 78 168 258 78
954 955 956 957 958 959 960	\$0647 \$0648 \$0649 \$0650 \$0651 \$0652 \$0653	2322.5 2307.5 2292.5 2277.5 2262.6 2247.5 2232.5	168 258 78 168 258 78 168
954 955 956 957 958 959 960 961	\$0647 \$0648 \$0649 \$0650 \$0651 \$0652 \$0653 \$0654	2322.5 2307.5 2292.5 2277.5 2262.6 2247.5 2232.5 2217.5	168 258 78 168 258 78 168 258
954 955 956 957 958 959 960 961 962	\$0647 \$0648 \$0649 \$0650 \$0651 \$0652 \$0653 \$0654 \$0655	2322.5 2307.5 2292.5 2277.5 2262.5 2247.5 2232.5 2217.5 2202.5	168 258 78 168 258 78 168 258 78
954 955 956 957 958 959 960 961 962 963	\$0647 \$0648 \$0649 \$0650 \$0651 \$0652 \$0653 \$0654 \$0655 \$0656	2322.5 2307.5 2292.5 2277.5 2262.5 2247.5 2232.5 2217.5 2202.5 2187.5	168 258 78 168 258 78 168 258 78 168
954 955 956 957 958 959 960 961 962 963 964	\$0647 \$0648 \$0649 \$0650 \$0651 \$0652 \$0653 \$0654 \$0655 \$0656 \$0657	2322.5 2307.5 2292.5 2277.5 2262.5 2247.5 2232.5 2217.5 2202.5 2187.5 2172.5	168 258 78 168 258 78 168 258 78 168 258
954 955 956 957 958 959 960 961 962 963 964	\$0647 \$0648 \$0649 \$0650 \$0651 \$0652 \$0653 \$0654 \$0655 \$0656	2322.5 2307.5 2292.5 2277.5 2262.5 2247.5 2232.5 2217.5 2202.5 2187.5	168 258 78 168 258 78 168 258 78 168
954 955 956 957 958 959 960 961 962 963 964 965 966	\$0647 \$0648 \$0649 \$0650 \$0651 \$0652 \$0653 \$0654 \$0655 \$0656 \$0657 \$0658 \$0659	2322.5 2307.5 2292.5 2277.5 2262.5 2247.5 2232.5 2217.5 2202.5 2187.5 2172.5	168 258 78 168 258 78 168 258 78 168 258 78
954 955 956 957 958 959 960 961 962 963 964 965 966	SO647 SO648 SO649 SO650 SO651 SO652 SO653 SO654 SO655 SO656 SO657 SO658	2322.5 2307.5 2292.5 2277.5 2262.6 2247.5 2232.5 2217.5 2202.5 2172.5 2157.5	168 258 78 168 258 78 168 258 78 168 258 78
954 955 956 957 958 959 960 961 962 963 964 965 966	\$0647 \$0648 \$0649 \$0650 \$0651 \$0652 \$0653 \$0654 \$0655 \$0656 \$0657 \$0658 \$0659	2322.5 2307.5 2292.5 2277.5 2262.6 2247.5 2232.5 2217.5 2202.5 2187.5 2172.5 2157.5 2142.5	168 258 78 168 258 78 168 258 78 168 258 78
954 955 956 957 958 959 960 961 962 963 964 965 966	\$0647 \$0648 \$0649 \$0650 \$0651 \$0652 \$0653 \$0654 \$0655 \$0656 \$0657 \$0658 \$0659 \$0660	2322.5 2307.5 2292.5 2277.5 2262.6 2247.5 2232.5 2217.5 2202.5 2187.5 2172.5 2157.5 2142.5 2127.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258
954 955 956 957 958 959 960 961 962 963 964 965 966 967	\$0647 \$0648 \$0649 \$0650 \$0651 \$0652 \$0653 \$0654 \$0655 \$0656 \$0657 \$0658 \$0659 \$0660 \$0661	2322.5 2307.5 2292.5 2277.5 2262.6 2247.5 2232.5 2217.5 2102.5 2172.5 2157.5 2142.5 2127.5 2112.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
954 955 956 957 958 959 960 961 962 963 964 965 966 967 968	\$0647 \$0648 \$0649 \$0650 \$0651 \$0652 \$0653 \$0654 \$0655 \$0656 \$0657 \$0658 \$0659 \$0660 \$0661 \$0662 \$0663	2322.5 2307.5 2292.5 2277.5 2262.6 2247.5 2232.5 2217.5 2187.5 2172.5 2157.5 2142.5 2127.5 2112.5 2097.5 2082.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258
954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970	\$0647 \$0648 \$0649 \$0650 \$0651 \$0652 \$0653 \$0654 \$0655 \$0656 \$0657 \$0658 \$0659 \$0660 \$0661 \$0662 \$0663 \$0664	2322.5 2307.5 2292.5 2277.5 2262.5 2247.5 2232.5 2217.5 2172.5 2172.5 2142.5 2127.5 2112.5 2097.5 2082.5 2067.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970	\$0647 \$0648 \$0649 \$0650 \$0651 \$0652 \$0653 \$0654 \$0655 \$0656 \$0657 \$0657 \$0659 \$0660 \$0661 \$0662 \$0663 \$0664	2322.5 2307.5 2292.5 2277.5 2262.5 2247.5 2232.5 2217.5 2172.5 2172.5 2142.5 2157.5 2142.5 2112.5 2097.5 2082.5 2067.5 2052.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168
954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971	\$0647 \$0648 \$0649 \$0650 \$0651 \$0652 \$0653 \$0654 \$0655 \$0656 \$0657 \$0658 \$0659 \$0660 \$0661 \$0662 \$0663 \$0664 \$0665 \$0665	2322.5 2307.5 2292.5 2277.5 2262.5 2247.5 2232.5 2217.5 2172.5 2157.5 2157.5 2127.5 2127.5 2127.5 2127.5 2127.5 2127.5 2097.5 2082.5 2067.5 2082.5 2052.5 2037.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258
954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974	\$0647 \$0648 \$0649 \$0650 \$0650 \$0651 \$0652 \$0653 \$0654 \$0655 \$0656 \$0657 \$0656 \$0657 \$0669 \$0660 \$0661 \$0662 \$0663 \$0664 \$0665 \$0665	2322.5 2307.5 2292.5 2277.5 2262.6 2247.5 2232.5 2202.5 2172.5 2157.5 2142.5 2142.5 2127.5 2142.5 2127.5 2097.5 2097.5 2082.5 2067.5 2052.5 2037.5 2022.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975	\$\)\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\\$\	2322.5 2307.5 2292.5 2277.5 2262.6 2247.5 2232.5 2217.5 2172.5 2157.5 2142.5 2127.5 2127.5 2127.5 2127.5 2097.5 2082.5 2067.5 2052.5 2037.5 2022.5 2007.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168
954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976	\$\sqrt{8} \sqrt{9} \s	2322.5 2307.5 2292.5 2277.5 2262.6 2247.5 2232.5 2217.5 2172.5 2157.5 2142.5 2127.5 2112.5 2097.5 2067.5 2067.5 2052.5 2037.5 2022.5 2007.5 1992.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977	\$\sqrt{8} \text{SO647} \text{SO648} \text{SO650} \text{SO650} \text{SO651} \text{SO652} \text{SO655} \text{SO656} \text{SO656} \text{SO656} \text{SO656} \text{SO656} \text{SO665} \text{SO6660} \text{SO660} \text{SO6664} \text{SO666} \text{SO666} \text{SO666} \text{SO666} \text{SO666} \text{SO666} \text{SO666} \text{SO666} \text{SO669} \text{SO669} \text{SO667} \text{SO669} \text{SO670} \text{SO670} \text{SO670} \text{SO670} \text{SO670} \text{SO670} \text{SO670} \text{SO670} \text{SO670} \text{SO670} \text{SO670} \text{SO670} \text{SO670} \text{SO670} \text{SO670} \text{SO670} \text{SO670} \text{SO670} \text{SO670} \text{SO670} \text{SO670}	2322.5 2307.5 2292.5 2277.5 2262.6 2247.5 2232.5 2217.5 2187.5 2157.5 2142.5 2112.5 2127.5 2112.5 2097.5 2067.5 2067.5 2067.5 2067.5 207.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977	\$\sqrt{80647}\$\sqrt{90648}\$\sqrt{90649}\$\sqrt{90650}\$\sqrt{90650}\$\sqrt{90651}\$\sqrt{90652}\$\sqrt{90652}\$\sqrt{90655}\$\sqrt{90656}\$\sqrt{90656}\$\sqrt{90656}\$\sqrt{90660}\$\sqrt{90660}\$\sqrt{90661}\$\sqrt{90662}\$\sqrt{90664}\$\sqrt{90665}\$\sqrt{90666}\$\sqrt{90667}\$\sqrt{90666}\$\sqrt{90667}\$\sqrt{90668}\$\sqrt{90669}\$\sqrt{90670}\$\sqrt{90671}\$	2322.5 2307.5 2292.5 2277.5 2262.6 2247.5 2232.5 2217.5 2187.5 2157.5 2142.5 2112.5 2097.5 2097.5 2067.5 2052.5 2037.5 2022.5 2007.5 1992.5 1962.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978	\$\sqrt{8} \sqrt{9} \s	2322.5 2307.5 2292.5 2277.5 2262.6 2247.5 2232.5 2217.5 2187.5 2157.5 2142.5 2112.5 2097.5 2097.5 2067.5 2067.5 2052.5 2037.5 2022.5 2097.5 1992.5 1992.5 1947.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 970 971 972 973 974 975 976 977 978 979	\$\sqrt{8} \text{SO647} \text{SO648} \text{SO650} \text{SO650} \text{SO651} \text{SO652} \text{SO655} \text{SO656} \text{SO656} \text{SO656} \text{SO657} \text{SO658} \text{SO660} \text{SO6660} \text{SO6661} \text{SO6662} \text{SO6663} \text{SO6665} \text{SO6666} \text{SO6666} \text{SO666} \text{SO666} \text{SO666} \text{SO666} \text{SO666} \text{SO6669} \text{SO670} \text{SO671} \text{SO672} \text{SO673} \text{SO673} \text{SO673} \text{SO673} \text{SO673} \text{SO673} \text{SO673} \text{SO679} \text{SO673} \text{SO679} \text{SO673} \text{SO679} \text{SO673} \text{SO679} \text{SO673} \text{SO679} \text{SO673} \text{SO679} \text{SO673} \text{SO673} \text{SO679} \text{SO673} \text{SO679} \text{SO673} \text{SO679} \text{SO679} \text{SO673} \text{SO679} \text{SO673} \text{SO679} \text{SO673} \text{SO679} \text{SO679} \text{SO679} \text{SO679} \text{SO679} \text{SO679} \text{SO679} \	2322.5 2307.5 2292.5 2277.5 2262.6 2247.5 2232.5 2217.5 2187.5 2157.5 2142.5 2112.5 2097.5 2097.5 2067.5 2052.5 2037.5 2022.5 2007.5 1992.5 1962.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 970 971 972 973 974 975 976 977 978 979	\$\sqrt{8} \sqrt{9} \s	2322.5 2307.5 2292.5 2277.5 2262.6 2247.5 2232.5 2217.5 2187.5 2157.5 2142.5 2112.5 2097.5 2097.5 2067.5 2067.5 2052.5 2037.5 2022.5 2097.5 1992.5 1992.5 1947.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 970 971 972 973 974 975 976 977 978 979	\$\sqrt{8} \text{SO647} \text{SO648} \text{SO650} \text{SO650} \text{SO651} \text{SO652} \text{SO655} \text{SO656} \text{SO656} \text{SO656} \text{SO657} \text{SO658} \text{SO660} \text{SO6660} \text{SO6661} \text{SO6662} \text{SO6663} \text{SO6665} \text{SO6666} \text{SO6666} \text{SO666} \text{SO666} \text{SO666} \text{SO666} \text{SO666} \text{SO6669} \text{SO670} \text{SO671} \text{SO672} \text{SO673} \text{SO673} \text{SO673} \text{SO673} \text{SO673} \text{SO673} \text{SO673} \text{SO679} \text{SO673} \text{SO679} \text{SO673} \text{SO679} \text{SO673} \text{SO679} \text{SO673} \text{SO679} \text{SO673} \text{SO679} \text{SO673} \text{SO673} \text{SO679} \text{SO673} \text{SO679} \text{SO673} \text{SO679} \text{SO679} \text{SO673} \text{SO679} \text{SO673} \text{SO679} \text{SO673} \text{SO679} \text{SO679} \text{SO679} \text{SO679} \text{SO679} \text{SO679} \text{SO679} \	2322.5 2307.5 2292.5 2277.5 2262.6 2247.5 2232.5 2217.5 2187.5 2157.5 2142.5 2112.5 2097.5 2097.5 2082.5 2067.5 2067.5 2067.5 2075.5 2075.5 2097.5 2097.5 2097.5 2097.5 2097.5 2097.5 2097.5 2097.5 2097.5 2097.5 2097.5 2097.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
954 955 956 957 958 959 960 961 962 963 964 965 966 967 978 970 971 972 973 974 975 976 977 978 979 980 981	\$0647 \$0648 \$0649 \$0650 \$0650 \$0651 \$0652 \$0653 \$0654 \$0655 \$0656 \$0657 \$0658 \$0659 \$0660 \$0661 \$0662 \$0663 \$0664 \$0665 \$0666 \$0666 \$0667 \$0668 \$0667 \$0670 \$0671 \$0672 \$0674 \$0675	2322.5 2307.5 2292.5 2277.5 2262.6 2247.5 2217.5 2202.5 2172.5 2157.5 2142.5 2112.5 2097.5 2097.5 2067.5 2067.5 2067.5 2067.5 2075.5 2077.5 1977.5 1977.5 1977.5 1977.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168
954 955 956 957 958 960 961 962 963 964 965 966 967 971 972 973 974 975 976 977 978 979 980 981 982 983	\$0647 \$0648 \$0649 \$0650 \$0650 \$0651 \$0652 \$0653 \$0654 \$0655 \$0656 \$0657 \$0658 \$0659 \$0660 \$0661 \$0662 \$0663 \$0664 \$0665 \$0666 \$0667 \$0668 \$0667 \$0669 \$0670 \$0671 \$0672 \$0674 \$0675 \$0676	2322.5 2307.5 2292.5 2277.5 2262.6 2247.5 2217.5 2102.5 2172.5 2157.5 2142.5 2112.5 2097.5 2082.5 2067.5 2067.5 2052.5 2052.5 2052.5 2052.5 2052.5 1992.5 1992.5 1917.5 1902.5 1902.5 1902.5 1902.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 78 78 78 78 78 78 78 78 78 78 78 78
954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984	\$0647 \$0648 \$0649 \$0650 \$0650 \$0651 \$0652 \$0653 \$0654 \$0655 \$0656 \$0657 \$0658 \$0669 \$0661 \$0662 \$0663 \$0664 \$0665 \$0666 \$0667 \$0668 \$0667 \$0669 \$0670 \$0671 \$0672 \$0674 \$0675 \$0676 \$0676	2322.5 2307.5 2292.5 2277.5 2262.5 2247.5 2202.5 2172.5 2172.5 2172.5 2127.5 2127.5 2127.5 2127.5 2097.5 2082.5 2067.5 2052.5 2007.5 1992.5 1997.5 1962.5 1917.5 1902.5 1917.5 1902.5 1887.5 1872.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78
954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984	\$0647 \$0648 \$0649 \$0650 \$0650 \$0651 \$0652 \$0653 \$0654 \$0655 \$0656 \$0657 \$0658 \$0659 \$0660 \$0661 \$0662 \$0663 \$0664 \$0665 \$0666 \$0667 \$0668 \$0667 \$0669 \$0670 \$0671 \$0672 \$0674 \$0675 \$0676	2322.5 2307.5 2292.5 2277.5 2262.6 2247.5 2217.5 2102.5 2172.5 2157.5 2142.5 2112.5 2097.5 2082.5 2067.5 2067.5 2052.5 2052.5 2052.5 2052.5 2052.5 1992.5 1992.5 1917.5 1902.5 1902.5 1902.5 1902.5	168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 168 258 78 78 78 78 78 78 78 78 78 78 78 78 78

987	SO680	1827.5	168
988	SO681	1812.5	258
	SO682	1797.5	78
990	SO683	1782.5	168
991	SO684	1767.5	258
	SO685	1752.5	78
993	SO686	1732.5	168
	SO687	1737.5	258
995	SO688	1707.5	78
996	SO689	1692.5	168
	SO690		258
998	SO690 SO691	1677.5 1662.5	78
999	SO692	1647.5	168
1000		1632.5	258
1001	SO694	1617.5	78
	SO695	1602.5	168
1003		1587.5	258
	SO697	1572.5	78
	SO698	1557.5	168
1006		1542.5	258
	SO700	1527.5	78
	SO701	1512.5	168
	SO702	1497.5	258
	SO703	1482.5	78
1011	SO704	1467.5	168
1012	SO705	1452.5	258
1013	SO706	1437.5	78
1014		1422.5	168
	SO708	1407.5	258
1016	SO709	1392.5	78
1017	SO710	1377.5	168
	SO711	1362.5	258
	SO712	1347.5	78
_	SO713	1332.5	168
1021	SO714	1317.5	258
1022	SO715	1302.5	78
	SO716	1287.5	168
	SO717	1272.5	258
1025	SO718	1257.5	78
	SO719	1242.5	168
1027	SO720	1227.5	258
	SO721	1212.5	78
	SO722	1197.5	168
1030	SO723	1182.5	258
1031	SO724	1167.5 1152.5	78
1032	SO725 SO726		168
	SO726 SO727	1137.5 1122.5	258 78
	SO728	1107.5	168
	SO728	107.5	258
	SO729 SO730		78
	SO730 SO731	1077.5 1062.5	168
	SO731 SO732	1062.5	258
	SO733	1047.5	78
	SO733	1032.5	168
	SO735	1017.5	258
	SO736	987.5	<u>∠36</u> 78
	SO737		168
	SO737	972.5 957.5	258
1045		942.5	78
	SO739 SO740	942.5	168
	SO740	912.5	258
	SO741	897.5	78
	SO742	882.5	168
1051	SO743 SO744	867.5	258
	SO745	852.5	78
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	1053	SO746	837.5	168
	1054	SO747	822.5	258
	1055	SO748	807.5	78
		SO749	792.5	168
	1057	SO750	777.5	258
	1058	SO751	762.5	78
		SO752	747.5	168
		SO753	732.5	258
		SO754	717.5	78
	1062	SO755	702.5	168
	1063	SO756	687.5	258
		SO757	672.5	78
	1065	SO758	657.5	168
	1066	SO759	642.5	258
	1067	SO760	627.5	78
	1068	SO761	612.5	168
		SO762	597.5	258
	1070		582.5	78
	1071	SO764	567.5	168
		SO765	552.5	258
		SO766	537.5	78
	1074		522.5	168
را		SO768	507.5	258
V	1076	SHIELDING	462.5	258
V		SHIELDING	417.5	258
		SHIELDING	372.5	258
	1079	SHIELDING	45	258
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	1084		-462.5	
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	1086		-522.5	168
	1087	SO771	-537.5	78
		SO772	-552.5	258
	1089	SO773	-567.5	168
		SO774	-582.5	78
	1091		-597.5	258
	1092	SO776	-612.5	168
		S0777	-627.5	78
	1094		-642.5	258
		SO779	-657.5	168
		SO780	-672.5	78
	1097	SO781	-687.5	258
		SO782	-702.5	168
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	1104		-792.5	168
	1105		-807.5	78
		SO790	-822.5	258
	1107		-837.5	168
	1108	SO792	-852.5	78
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	1110		-882.5	168
	1111	SO795	-897.5	78
	1112	SO796	-912.5	258
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	1114	SO798	-942.5	78
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		SO800	-972.5	
		SO801	-987.5	78
	1118	SO802	-1002.5	258



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1122 SO806	-1062.5	168
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1132 SO816	-1212.5	78
1133 SO817	-1227.5	258
1134 SO818	-1242.5	168
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1136 SO820	-1272.5	258
1137 SO821	-1287.5	168
1138 SO822	-1302.5	78
1139 SO823	-1317.5	258
1140 SO824	-1332.5	168
1141 SO825	-1347.5	78
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1143 SO827	-1377.5	168
1144 SO828	-1392.5	78
1145 SO829	-1407.5	258
1146 SO830	-1422.5	168
1147 SO831	-1437.5	78
1148 SO832	-1452.5	258
1149 SO833	-1467.5	168
1150 SO834	-1482.5	78
1151 SO835	-1497.5	258
1152 SO836 1	-1512.5	258 168
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1152 SO836 1153 SO837 1154 SO838 1155 SO839 1156 SO840 1157 SO841 1158 SO842	-1512.5 -1527.5 -1542.5 -1557.5 -1572.6 -1587.5 -1602.5	168 78 258 168 78 258 168
1152 SO836 1153 SO837 1154 SO838 1155 SO839 1156 SO840 1157 SO841 1158 SO842 1159 SO843	-1512.5 -1527.5 -1542.5 -1557.5 -1572.6 -1587.5 -1602.5 -1617.5	168 78 258 168 78 258 168 78
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1152 SO836 1153 SO837 1154 SO838 1156 SO839 1156 SO840 1157 SO841 1158 SO842 1159 SO843 1160 SO844 1161 SO845	-1512.5 -1527.5 -1542.5 -1557.5 -1572.5 -1587.5 -1602.5 -1617.5 -1632.5 -1647.5	168 78 258 168 78 258 168 78 258 168
1152 SO836 1153 SO837 1154 SO838 1155 SO839 1156 SO840 1157 SO841 1158 SO842 1159 SO843 1160 SO844 1161 SO845 1162 SO846	-1512.5 -1527.5 -1542.5 -1557.5 -1572.6 -1587.5 -1602.5 -1617.5 -1632.5 -1647.5 -1662.5	168 78 258 168 78 258 168 78 258 168 78
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1152 SO836 1153 SO837 1154 SO838 1156 SO839 1156 SO840 1157 SO841 1158 SO842 1159 SO843 1160 SO844 1161 SO845 1162 SO846 1163 SO847 1164 SO848	-1512.5 -1527.5 -1542.5 -1557.5 -1572.6 -1587.5 -1602.5 -1617.5 -1632.5 -1647.5 -1662.5 -1677.5 -1692.5	168 78 258 168 78 258 168 78 258 168 78 258 168
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1152 SO836 1153 SO837 1154 SO838 1155 SO839 1156 SO840 1157 SO841 1158 SO842 1159 SO843 1160 SO844 1161 SO845 1162 SO846 1163 SO847 1164 SO848 1165 SO849 1166 SO850	-1512.5 -1527.5 -1542.5 -1557.5 -1572.6 -1587.5 -1602.5 -1617.5 -1632.5 -1647.5 -1662.5 -1677.5 -1692.5 -1707.5 -1722.5	168 78 258 168 78 258 168 78 258 168 78 258 168 78 258
1152 SO836 1153 SO837 1154 SO838 1155 SO839 1156 SO840 1157 SO841 1158 SO842 1159 SO843 1160 SO844 1161 SO845 1162 SO846 1163 SO847 1164 SO848 1165 SO849 1166 SO850 1167 SO851	-1512.5 -1527.5 -1542.5 -1557.5 -1572.6 -1587.5 -1602.5 -1617.5 -1632.5 -1647.5 -1662.5 -1677.5 -1707.5 -1722.5 -1737.5	168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168
1152 SO836 1153 SO837 1154 SO838 1155 SO839 1156 SO840 1157 SO841 1158 SO842 1159 SO843 1160 SO844 1161 SO845 1162 SO846 1163 SO847 1164 SO848 1165 SO849 1166 SO850 1167 SO851 1168 SO852	-1512.5 -1527.5 -1542.5 -1557.5 -1572.5 -1587.5 -1602.5 -1617.5 -1632.5 -1662.5 -1677.5 -1692.5 -1707.5 -1722.5 -1737.5 -1752.5	168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78
1152 SO836 1153 SO837 1154 SO838 1155 SO839 1156 SO840 1157 SO841 1158 SO842 1159 SO843 1160 SO844 1161 SO845 1162 SO846 1163 SO847 1164 SO848 1165 SO849 1166 SO850 1167 SO851 1168 SO852 1169 SO853	-1512.5 -1527.5 -1542.5 -1557.5 -1572.5 -1587.5 -1602.5 -1617.5 -1632.5 -1662.5 -1677.5 -1707.5 -1722.5 -1737.5 -1752.5 -1767.5	168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258
1152 SO836 1153 SO837 1154 SO838 1155 SO839 1156 SO840 1157 SO841 1158 SO842 1159 SO843 1160 SO844 1161 SO845 1162 SO846 1163 SO847 1164 SO848 1165 SO849 1166 SO850 1167 SO851 1168 SO852 1169 SO853 1170 SO854	-1512.5 -1527.5 -1542.5 -1557.5 -1572.6 -1587.5 -1602.5 -1617.5 -1632.5 -1647.5 -1662.5 -1677.5 -177.5 -1722.5 -1737.5 -1752.5 -1767.5 -1767.5	168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168
1152 SO836 1153 SO837 1154 SO838 1155 SO839 1156 SO840 1157 SO841 1158 SO842 1159 SO843 1160 SO844 1161 SO845 1162 SO846 1163 SO847 1164 SO848 1165 SO849 1166 SO850 1167 SO851 1168 SO852 1169 SO853 1170 SO854 1171 SO855	-1512.5 -1527.5 -1542.5 -1557.5 -1572.5 -1587.5 -1602.5 -1617.5 -1632.5 -1647.5 -1662.5 -1677.5 -1707.5 -1722.5 -1737.5 -1752.5 -1767.5 -1782.5 -1782.5	168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78
1152 SO836 1153 SO837 1154 SO838 1155 SO839 1156 SO840 1157 SO841 1158 SO842 1159 SO843 1160 SO844 1161 SO845 1162 SO846 1163 SO847 1164 SO848 1165 SO849 1166 SO850 1167 SO851 1168 SO852 1169 SO853 1170 SO854 1171 SO855 1172 SO856	-1512.5 -1527.5 -1542.5 -1557.5 -1572.6 -1587.5 -1602.5 -1617.5 -1632.5 -1677.5 -1692.5 -1707.5 -1722.5 -1737.5 -1752.5 -1767.5 -1782.5 -1797.5 -1812.5	168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258
1152 SO836 1153 SO837 1154 SO838 1155 SO839 1156 SO840 1157 SO841 1158 SO842 1159 SO843 1160 SO844 1161 SO845 1162 SO846 1163 SO847 1164 SO848 1165 SO849 1166 SO850 1167 SO851 1168 SO852 1169 SO853 1170 SO854 1171 SO855 1172 SO856 1173 SO857	-1512.5 -1527.5 -1542.5 -1557.5 -1572.6 -1587.5 -1602.5 -1617.5 -1632.5 -1647.5 -1662.5 -1707.5 -1707.5 -1737.5 -1752.5 -1767.5 -1782.5 -1797.5 -1812.5 -1827.5	168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168
1152 SO836 1153 SO837 1154 SO838 1155 SO839 1156 SO840 1157 SO841 1158 SO842 1159 SO843 1160 SO844 1161 SO845 1162 SO846 1163 SO847 1164 SO848 1165 SO849 1166 SO850 1167 SO851 1168 SO852 1169 SO853 1170 SO854 1171 SO855 1172 SO856 1173 SO857 1174 SO858	-1512.5 -1527.5 -1542.5 -1557.5 -1572.6 -1587.5 -1602.5 -1617.5 -1632.5 -1647.5 -1662.5 -1707.5 -1707.5 -1737.5 -1752.5 -1767.5 -1782.5 -1797.5 -1812.5 -1827.5 -1842.5	168 78 258 168 258 168 258 168 258 168 258 168 258 258 258 258 258 258 258 25
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1152 SO836 1153 SO837 1154 SO838 1155 SO839 1156 SO840 1157 SO841 1158 SO842 1159 SO843 1160 SO844 1161 SO845 1162 SO846 1163 SO847 1164 SO848 1165 SO849 1166 SO850 1167 SO851 1168 SO852 1169 SO853 1170 SO854 1171 SO855 1172 SO856 1173 SO857 1174 SO858 1175 SO859 1176 SO860	-1512.5 -1527.5 -1527.5 -1557.5 -1572.6 -1587.5 -1602.5 -1617.5 -1632.5 -1647.5 -1662.5 -1707.5 -1707.5 -1722.5 -1737.5 -1752.5 -1767.5 -1782.5 -1782.5 -182.5 -1827.5 -1827.5 -1842.5 -1872.5	168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 168 168 168 168 168 168 16
1152 SO836 1153 SO837 1154 SO838 1155 SO839 1156 SO840 1157 SO841 1158 SO842 1159 SO843 1160 SO844 1161 SO845 1162 SO846 1163 SO847 1164 SO848 1165 SO849 1166 SO850 1167 SO851 1168 SO852 1169 SO853 1170 SO854 1171 SO855 1172 SO856 1173 SO857 1174 SO858 1175 SO859 1176 SO860 1177 SO861	-1512.5 -1527.5 -1527.5 -1557.5 -1572.6 -1587.5 -1602.5 -1617.5 -1632.5 -1647.5 -1662.5 -1707.5 -1707.5 -1722.5 -1737.5 -1752.5 -1767.5 -1782.5 -1782.5 -182.5 -1827.5 -1827.5 -1842.5 -1872.5 -1872.5 -1872.5	168 78 258 168 258 168 258 168 168 168 168 168 168 168 16
1152 SO836 1153 SO837 1154 SO838 1155 SO839 1156 SO840 1157 SO841 1158 SO842 1159 SO843 1160 SO844 1161 SO845 1162 SO846 1163 SO847 1164 SO848 1165 SO849 1166 SO850 1167 SO851 1168 SO852 1169 SO853 1170 SO854 1171 SO855 1172 SO856 1173 SO857 1174 SO858 1175 SO859 1176 SO860 1177 SO861 1178 SO862	-1512.5 -1527.5 -1527.5 -1557.5 -1572.6 -1587.5 -1602.5 -1617.5 -1632.5 -1647.5 -1662.5 -1707.5 -1707.5 -1722.5 -1737.5 -1752.5 -1767.5 -1782.5 -1782.5 -182.5 -1827.5 -1827.5 -1842.5 -1872.5 -1872.5 -1872.5 -1872.5	168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258
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	1260	SO944	-3132.5	168
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	1262	SO946	-3162.5	258
		SO947	-3177.5	168
		SO948	-3192.5	78
	1265	SO949	-3207.5	258
	1266	SO950	-3222.5	168
	1267	SO951	-3237.5	78
	1268	SO952	-3252.5	258
		SO953	-3267.5	168
		SO954	-3282.5	78
	1271	SO955	-3297.5	258
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	1272	SO956	-3312.5	168
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11	1274	SO958	-3342.5	258
V	1275	SO959	-3357.5	168
		SO960	-3372.5	78
	1277	SO961	-3387.5	258
			-3402.5	168
		SO962		
		SO963	-3417.5	78
7		SO964	-3432.5	258
	1281	SO965	-3447.5	168
	1282	SO966	-3462.5	78
	1283	SO967	-3477.5	258
	1284	SO968	-3492.5	168
		SO969	-3507.5	78
		SO970	-3522.5	258
	1287	SO971	-3537.5	168
		SO972	-3552.5	78
		SO973	-3567.5	258
		SO974	-3582.5	168
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	1293	SO977	-3627.5	168
		SO978	-3642.5	78
	1295	SO979	-3657.5	258
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		SO981	-3687.5	78
		SO982	-3702.5	258
	1299	SO983	-3717.5	168
	1300	SO984	-3732.5	78
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		SO986	-3762.5	168
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		SO990	-3822.5	78
		SO991	-3837.5	258
		SO992	-3852.5	168
	1309	SO993	-3867.5	78
	1310	SO994	-3882.5	258
	1311	SO995	-3897.5	168
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		SO997	-3927.5	258
		SO998	-3942.5	168
		SO999	-3957.5	78
	1316	SO1000	-3972.5	258



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1319 SO1003	-4017.5	258
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1322 SO1006	-4062.5	258
1323 SO1007	-4077.5	168
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1325 SO1009	-4107.5	258
1326 SO1010	-4122.5	168
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1330 SO1014		
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1333 SO1017	-4227.5	78
1334 SO1018	-4242.5	258
1335 SO1019	-4257.5	168
1336 SO1020	-4272.5	78
1337 SO1021	-4287.5	258
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1339 SO1023	-4317.5	78
1340 SO1024	-4332.5	258
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1342 SO1026	-4362.5	78
1343 SO1027	-4377.5	258
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1346 SO1030	-4422.5	258
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1350 SO1034 1351 SO1035	-4482.5 -4497.5	168 78
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1350 SO1034 1351 SO1035 1352 SO1036 1353 SO1037	-4482.5 -4497.5 -4512.5 -4527.5	168 78 258 168
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1350 SO1034 1351 SO1035 1352 SO1036 1353 SO1037 1354 SO1038 1355 SO1039 1356 SO1040 1357 SO1041 1358 SO1042 1359 SO1043 1360 SO1044 1361 SO1045 1362 SO1046 1363 SO1047 1364 SO1048 1365 SO1049 1366 SO1050	-4482.5 -4497.5 -4512.5 -4527.5 -4567.5 -4572.5 -4602.5 -4617.5 -4632.5 -4677.5 -4692.5 -4707.5 -4722.5	168 78 258 168 78 258 168 78 258 168 78 258 168 78
1350 SO1034 1351 SQ1035 1352 SQ1036 1353 SQ1037 1354 SQ1038 1355 SQ1039 1356 SQ1040 1357 SQ1041 1358 SQ1042 1359 SQ1043 1360 SQ1044 1361 SQ1045 1362 SQ1046 1363 SQ1047 1364 SQ1048 1365 SQ1049 1366 SQ1050 1367 SQ1051	-4482.5 -4497.5 -4512.5 -4527.5 -4557.5 -4572.5 -4602.5 -4617.5 -4632.5 -4677.5 -4692.5 -4707.5 -4722.5 -4737.5	168 78 258 168 258 168 78 258 168 78 258 168 78 258 168 78
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1350 SO1034 1351 SQ1035 1352 SO1036 1353 SO1037 1354 SO1038 1355 SO1039 1356 SO1040 1357 SO1041 1358 SO1042 1359 SO1043 1360 SO1044 1361 SO1045 1362 SO1046 1363 SO1047 1364 SO1048 1365 SO1049 1366 SO1050 1367 SO1051 1368 SO1052 1369 SO1053 1370 SO1054	-4482.5 -4497.5 -4512.5 -4527.5 -4557.5 -4572.5 -4587.5 -4602.5 -4617.5 -4647.5 -4692.5 -4707.5 -4722.5 -4737.5 -4767.5 -4767.5 -4782.5	168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258
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1383	SO1067	-4977.5	168
	SO1068		
		-4992.5	78
1385	SO1069	-5007.5	258
1386	SO1070	-5022.5	168
1387	SO1071	-5037.5	78
		-5052.5	258
1300	SO1072		
	SO1073	-5067.5	168
1390	SO1074	-5082.5	78
1391	SO1075	-5097.5	258
1392		-5112.5	168
1393	SO1077	-5127.5	78
	SO1078	-5142.5	258
1395	SO1079	-5157.5	168
1396	SO1080	-5172.5	78
1397	SO1081	-5187.5	258
	SO1082	-5202.5	168
	SO1083	-5217.5	78
1400	SO1084	-5232.5	258
1401	SO1085	-5247.5	168
1/102	SO1086	-5262.5	78
	SO1087	-5277.5	258
1404	SO1088	-5292.5	168
	SO1089	-5307.5	78
	SO1090	-5322.5	258
1407		5337.5	168
	SO1091 SO1092	-5352.5	
			78
1409	SO1093 SO1094	-5367.5	258
1410	SO1094	-5382.5	168
1411	SO1095	-5397.5	78
1412		-5412.5	258
1413			
		-5427.5	168
1414	SO1098	-5442.5	78
1415	SO1099	-5457.5	258
	06.4400		
1416	501100	-5472.5	168
	SO1100 SO1101		
1417	SO1101	-5487.5	78
1417 1418	SO1101 SO1102	-5487.5 -5502.5	78 258
1417 1418 1419	SO1101 SO1102 SO1103	-5487.5 -5502.5 -5517.5	78 258 168
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1417 1418 1419 1420 1421	\$01101 \$01102 \$01103 \$01104 \$01105	-5487.5 -5502.5 -5517.5	78 258 168
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	1480	SO1164	-6432.5	78
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	SO1269	-8007.5	78
	SO1270	-8022.5	258
1587		-8037.5	168
	SO1271	-8052.5	78
1589	SO1272 SO1273	-8052.5	258
	SO1273	-8082.5	
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1591	SO1275	-8097.5	78
	SO1276	-8112.5	258
	SO1277	-8127.5	168
1594		-8142.5	78
	SO1279	-8157.5	258
	SO1280	-8172.5	168
	SO1281	-8187.5	78
	SO1282	-8202.5	258
	SO1283	-8217.5	168
	SO1284	-8232.5	78
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	SO1286	-8262.5	168
	SO1287	-8277.5	78
1604	SO1288	-8292.5	258
1605	SO1289	-8307.5	168
1606	SO1290 🔨	-8322.5	78
1607	SO1291	-8337.5	258
1608	SO1292	-8352.5	168
1609	SO1293	-8367.5	78
1610	SO1294	-8382.5	258
1611	SO1295	-8397.5	168
1612	SO1296	-8412.5	78
	SO1297	-8427.5	258
1614	SO1298	-8442.5	168
1615	SO1299	-8457.5	78
1616	SO1300	-8472.5	258
1617	004004	0407.5	
1011	SO1301	-8487.5	168
	SO1301 SO1302	-8487.5 -8502.5	168 78
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1618 1619	SO1302	-8502.5	78
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1618 1619 1620 1621 1622 1623 1624 1625 1626 1627 1628 1629 1630 1631 1632 1633 1634 1635 1636 1637 1638	SO1302 SO1303 SO1304 SO1305 SO1306 SO1307 SO1308 SO1310 SO1311 SO1311 SO1312 SO1314 SO1315 SO1316 SO1317 SO1318 SO1319 SO1320 SO1322 SO1323	-8502.5 -8517.5 -8532.5 -8547.5 -8562.5 -8577.5 -8607.5 -8622.5 -8637.5 -8652.5 -8667.5 -8712.5 -8712.5 -8712.5 -8742.5 -8772.5 -8787.5 -8787.5 -8802.5 -8802.5	78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78
1618 1619 1620 1621 1622 1623 1624 1625 1626 1627 1628 1630 1631 1632 1633 1634 1635 1636 1637 1638 1639 1640	SO1302 SO1303 SO1304 SO1305 SO1306 SO1307 SO1308 SO1309 SO1310 SO1311 SO1312 SO1313 SO1314 SO1315 SO1316 SO1316 SO1319 SO1319 SO1320 SO1321 SO1322 SO1323 SO1324	-8502.5 -8517.5 -8532.5 -8547.5 -8562.5 -8577.5 -8607.5 -8622.5 -8637.5 -8652.5 -8667.5 -8712.5	78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258
1618 1619 1620 1621 1622 1623 1624 1625 1626 1627 1628 1630 1631 1632 1633 1634 1635 1635 1636 1637 1638 1639 1640 1641	SO1302 SO1303 SO1304 SO1305 SO1306 SO1307 SO1308 SO1309 SO1310 SO1311 SO1312 SO1313 SO1314 SO1315 SO1316 SO1317 SO1318 SO1319 SO1320 SO1320 SO1321 SO1322 SO1323 SO1324 SO1325	-8502.5 -8517.5 -8532.5 -8547.5 -8562.5 -8577.5 -8697.5 -8667.5 -8667.5 -8697.5 -8742.5 -8742.5 -8742.5 -8742.5 -8742.5 -8742.5 -8742.5 -8742.5 -8742.5 -8742.5 -8742.5 -8742.5 -8742.5 -8742.5 -8742.5 -8742.5 -8742.5 -8742.5 -8742.5 -8847.5	78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78
1618 1619 1620 1621 1622 1623 1624 1625 1626 1627 1628 1629 1630 1631 1632 1633 1634 1635 1636 1637 1638 1639 1640 1641 1642	SO1302 SO1303 SO1304 SO1305 SO1306 SO1307 SO1308 SO1309 SO1310 SO1311 SO1312 SO1313 SO1314 SO1315 SO1316 SO1317 SO1318 SO1319 SO1320 SO1320 SO1321 SO1322 SO1323 SO1324 SO1325 SO1326	-8502.5 -8517.5 -8532.5 -8547.5 -8562.5 -8577.5 -8697.5 -8667.5 -8667.5 -8697.5 -8727.5 -8727.5 -8742.5 -8742.5 -8787.5 -8802.5 -8817.5 -8832.5 -8847.5 -8862.5	78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78
1618 1619 1620 1621 1622 1623 1624 1625 1626 1627 1628 1629 1630 1631 1632 1633 1634 1635 1636 1637 1638 1639 1640 1641 1642 1642	SO1302 SO1303 SO1304 SO1305 SO1306 SO1307 SO1308 SO1309 SO1310 SO1311 SO1312 SO1313 SO1314 SO1315 SO1316 SO1317 SO1318 SO1319 SO1320 SO1321 SO1322 SO1323 SO1324 SO1325 SO1326 SO1327	-8502.5 -8517.5 -8532.5 -8547.5 -8562.5 -8577.5 -8592.5 -8607.5 -8622.5 -8667.5 -8667.5 -8697.5 -8742.5 -8742.5 -8742.5 -8742.5 -8742.5 -8742.5 -8742.5 -8742.5 -8742.5 -8862.5 -8817.5 -8832.5 -8847.5 -8862.5 -8847.5	78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258
1618 1619 1620 1621 1622 1623 1624 1625 1626 1627 1628 1629 1630 1631 1632 1633 1634 1635 1636 1637 1638 1639 1640 1641 1642 1643 1644	SO1302 SO1303 SO1304 SO1305 SO1306 SO1307 SO1308 SO1309 SO1310 SO1311 SO1312 SO1313 SO1314 SO1315 SO1316 SO1319 SO1319 SO1320 SO1320 SO1321 SO1322 SO1323 SO1324 SO1325 SO1326 SO1327 SO1328	-8502.5 -8517.5 -8532.5 -8547.5 -8562.5 -8577.5 -8592.5 -8607.5 -8622.5 -8667.5 -8682.5 -8697.5 -8712.5 -8742.5 -8757.5 -8742.5 -8742.5 -8742.5 -8757.5 -8742.5 -8802.5 -8817.5 -8832.5 -8847.5 -8862.5 -8877.5 -8892.5	78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78
1618 1619 1620 1621 1622 1623 1624 1625 1626 1627 1628 1630 1631 1632 1633 1634 1635 1636 1637 1638 1639 1640 1641 1642 1643 1644 1645	SO1302 SO1303 SO1304 SO1305 SO1306 SO1307 SO1308 SO1309 SO1310 SO1311 SO1312 SO1313 SO1314 SO1315 SO1316 SO1317 SO1318 SO1319 SO1320 SO1321 SO1322 SO1323 SO1324 SO1325 SO1326 SO1327	-8502.5 -8517.5 -8532.5 -8547.5 -8562.5 -8577.5 -8592.5 -8607.5 -8622.5 -8667.5 -8667.5 -8697.5 -8742.5 -8742.5 -8742.5 -8742.5 -8742.5 -8742.5 -8742.5 -8742.5 -8742.5 -8862.5 -8817.5 -8832.5 -8847.5 -8862.5 -8847.5	78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258 168 78 258

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	1647	SO1331	-8937.5	168
	1648	SO1332	-8952.5	78
	1649	SO1333	-8967.5	258
			-8982.5	168
		SO1334		
	1651	SO1335	-8997.5	78
	1652	SO1336	-9012.5	258
	1653		-9027.5	168
	1654	SO1338	-9042.5	78
	1655	SO1339	-9057.5	258
	1656	SO1340	-9072.5	168
	1657	SO1341	-9087.5	78
		SO1342	-9102.5	258
	1659	SO1343		168
			-9117.5	
	1660	SO1344	-9132.5	78
	1661	SO1345	-9147.5	258
	1662	SO1346	-9162.5	168
	1663	SO1347	-9177.5	78
	1664	SO1348	-9192.5	258
	1665	SO1349	-9207.5	168
	1666	SO1350	-9222.5	78
	1667		-9237.5	258
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	1668	SO1352	-9252.5	
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1	1670	SO1354	-9282.5	258
	1671	SO1355	-9297.5	168
	1672	SO1356	-9312.5	78
	1673	SO1357	-9327.5	258
	1674	SO1358	-9342.5	168
	1675		-9357.5	78
1	- / /	SO1360	-9372.5	258
-	1677	SO1361	-9387.5	168
	1678	SO1362	-9402.5	78
		SO1363	-9417.5	258
	1680	SO1364	-9432.5	168
	1681	SO1365	-9447.5	78
	1682	SO1366	-9462.5	258
	1683	SO1367	-9477.5	168
	1684		-9492.5	78
	1685		-9507.5	258
	1686	SO1370	-9522.5	168
	1687	SO1371	-9537.5	78
	1688	SO1372	-9552.5	258
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		SO1374	-9582.5	78
	1691	SO1375	-9597.5	258
	1692	SO1376	-9612.5	168
		SO1377	-9627.5	78
	1694		-9642.5	258
		SO1379	-9657.5	168
	1696		-9672.5	78
	1697		-9687.5	258
	1698		-9702.5	168
	1699		-9717.5	78
	1700	SO1384	-9732.5	258
	1701	SO1385	-9747.5	168
	1702	SO1386	-9762.5	78
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		SO1392	-9852.5	78
	1709	SO1393	-9867.5	258
	1710	SO1394	-9882.5	168
	1711	SO1395	-9897.5	78
	1712	SO1396	-9912.5	258
,				



	1713	SO1397	-9927.5	168
		SO1398	-9942.5	
		SO1399	-9957.5	
	1716	SO1400	-9972.5	168
	1717	SO1401	-9987.5	78
		SO1402	-10002.5	258
	1719		-10017.5	168
		SO1404	-10032.5	78
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	1722	SO1406	-10062.5	168
		SO1407	-10077.5	78
	1724		-10092.5	258
		SO1409	-10107.5	168
		SO1410	-10122.5	78
	1727	SO1411	-10137.5	258
		SO1412	-10152.5	168
		SO1413	-10167.5	78
		SO1414	-10182.5	258
		SO1415	-10197.5	168
	1732		-10212.5	78
		SO1417	-10227.5	258
		SO1418	-10242.5	168
		SO1419	-10257.5	78
		SO1410	-10277.5	258
	1737	SO1421	-10287.5	168
	1738	SO1422	-10302.5	78
		SO1423	-10317.5	258
	1740	SO1424	-10332.5	168
		SO1425	-10347.5	78
	1742		-10362.5	258
	1743	SO1427	-10377.5	168
		SO1428	-10392.5	78
		SO1429	-10407.5	258
		SO1430 []	-10422.5	168
		SO1431	-10437.5	78
		SO1432	-10452.5	258
		SO1433	-10467.5	168
١	1750	***	-10482.5	78
	1751	SO1435	-10497.5	258
	-	SO1436	-10512.5	168
	1753		-10527.5	78
		SO1438	-10542.5	258
		SO1439	-10557.5	168
	1756	SO1440	-10572.5	78
		SO1441	-10587.5	258
	1758	SO1442	-10602.5	168
		SO1443	-10617.5	78
		SO1444	-10632.5	258
	1761	SO1445	-10647.5	168
	1762	SO1446	-10662.5	78
		SO1447	-10677.5	258
	1764	SO1448	-10692.5	168
		SO1449	-10707.5	78
	1766	SO1450	-10722.5	258
	1767	SO1451	-10737.5	168

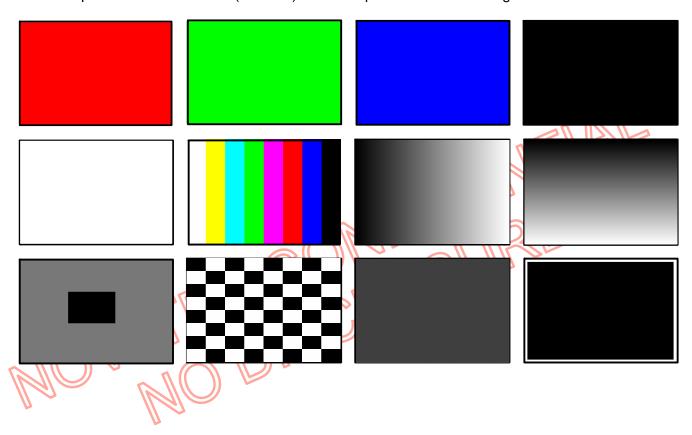
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		SO1450	-10827.5	168
	1774		-10842.5	78
		SO1459	-10857.5	258
	1776	SO1459	-10872.5	168
	1777	SO1460	-10887.5	78
		SO1461	-10007.5	258
	1779		-10902.5	168
		SO1464	-10917.5	78
			-10932.5	
	1782	SO1465 SO1466	-10947.5 -10962.5	258 168
				78
	1784	SO1467 SO1468	-10977.5 -10992.5	258
		SO1466 SO1469	-110992.5	168
	1785			
		SO1470 SO1471	-11022.5	78 258
	1787 1788		-11037.5	
			-11052.5	168
		SO1473 SO1474	-11067.5	78 258
	1790		-11082.5	
		SO1475	-11097.5	168
	1792		-11112.5	78 258
	1793	SO1477	-11127.5	
	1794	SO1478 SO1479	-11142.5 -11157.5	168 78
		SO1479 SO1480	-11172.5	
7	1797	SO1480 SO1481	-11187.5	168
	1798	SO1481	-1110 <i>1.</i> .5	78
		SO1483	-11202.5	258
		SO1484	-11232.5	168
		SO1404 SO1485	-11247.5	78
		SO1486	-11262.5	258
	1803	SO1487	-11202.5	168
١		SO1488	-11277.5	78
V		SO1489	-11307.5	258
ľ		SO1490	-11322.5	168
		SO1491	-11337.5	78
	1808		-11352.5	258
		SO1493	-11367.5	168
		SO1494	-11382.5	78
	1811	SO1495	-11397.5	258
		SO1496	-11412.5	168
	1813	SO1497	-11427.5	78
	1814	SO1498	-11442.5	258
		SO1499	-11457.5	168
	1816		-11472.5	78
		SO1501	-11487.5	258
		SO1502	-11502.5	168
	1819	SO1503	-11517.5	78
		SO1504	-11532.5	258
	1821		-11547.5	168
	1822	SO1506	-11562.5	78

1823	SO1507	-11577.5	258
1824	SO1508	-11592.5	168
1825	SO1509	-11607.5	78
1826	SO1509 SO1510	-11622.5	258
1827	SO1511	-11637.5	168
1828	SO1512	-11652.5	78
1829		-11667.5	258
1830	SO1514	-11682.5	168
1831	SO1515	-11697.5	78
1832	SO1516	-11712.5	258
1833	SO1517	-11727.5	168
1834	SO1518	-11742.5	78
1835		-11757.5	258
1836	SO1519 SO1520	-11772.5	168
1837	SO1521	-11787.5	78
1838	SO1522	-11802.5	258
1839		-11817.5	168
1840		-11832.5	78
1841	SO1525	-11847.5	258
1842	SO1526	-11862.5	168
1843		-11877.5	78
1844	SO1528	-11892.5	258
1845		-11907.5	168
1846	SO1530	-11922.5	78
		-11937.5	258
1848	SO1532	-11952.5	168
1849	SO1533	-11967.5	78
1850	SO1534	-11982.5	258
1851	SO1535	-11997.5	168
1852	SO1536	-12012.5	78
1853		-12055	258
1854	COM1 OUT	-12105	258
1855	_	-12155	258
1856	SHIELDING	-12205	258
	F_CtrlR	-12403	278
1858	OEV1R	-12303	238
	SYNC1R	-12403	198
1860	SYNC2R	-12303	158
1861	UDR	-12403	118
1862	CKVR	-12303	78
1863	STV1R	-12403	38
1864	STV2R	-12303	-2
1865	STV1R	-12403	-42
1866	F CtrlR	-12303	-82
1867	STBNR	-12403	-122
1007	ALIGNMENT_M		
	ARK_L	-12131.5	115.5
1	ALIGNMENT M	12131.5	115.5



Appendix A: BIST pattern

 $R \rightarrow G \rightarrow B \rightarrow Black \rightarrow White \rightarrow Color Bar \rightarrow Horizontal 256 gray scale \rightarrow Vertical 256 gray scale \rightarrow Crosstalk pattern \rightarrow Chess board (L255/L0) \rightarrow Flicker pattern \rightarrow Black background with white out frame$



2009/09/17 52 Ver.06