

# ARTS1660

=blfcXiWcfmi?cfYUb<sup>™</sup>5

HYfa 'C bY''##'&\$&%

# 7 ci fgY<sup>-</sup>Cj Yfj ]Yk

## GHJZZ7cbHJWh78YHJ]`g

#### 7cbj Ybcfg

BUa Y	9a U]`	5j U]`UV]`]m	@cWUh]cb	D∖cbY
; ]! <mib`g\]b< th=""><th>["g\]b4 i bgk "YXi "Ui</th><th></th><th>F cca `&amp;\$&amp;ž A cfj Yb`6fck b</th><th>- ' , )</th></mib`g\]b<>	["g\]b4 i bgk "YXi "Ui		F cca `&\$&ž A cfj Yb`6fck b	- ' , )

#### @Y₩ni fYfg

BUa Y	9a U]`	5j U]`UV]`]m	@cWUhjcb	D∖cbY
; ]! < m b G \ ]b	["g\]b4 i bgk "YXi "Ui	5g <sup>·</sup> 5VcjY	5g <sup>·</sup> 5VcjY	5g <sup>·</sup> 5VcjY

#### Hihcfg

BUa Y	9a U]`	5j U]`UV]`]m	@cWUh]cb	D∖cbY
FcgU">cc"M b"MUb[	∕cc"mUb[4 i bgk "YXi "Ui	H" <sup>-</sup> 6" <sup>-</sup> 5"	Fcca &*, ž	- ' , ) '%* - *
			A cfj Yb 6fck b	

### GWXcc``7cbHJWhi=bZcfaUh]cb

GV%cc``cZ<iaUb]h]Yg'UbX'@Ub[iU[Yg

@cWUhjcb. `GW&cc``C ZJWYžA cfj Yb`6fck b`6i ]`X]b[ ž@Yj Y``&ž&),

CdYb]b[ '<ci fg. 'A cbXUm!': f]XUmž'-Ua '!') da

D\cbY. Ž\*%&'-',) %\*, %

: UI . Ž\*%&'-' , ) ', +\$)

9a U]`. <u>\U`4 i bgk "YXi "Ui</u>

# 7cifgY<sup>·</sup>8YHJ]`g

### 7 fYX]hDc]bhg<sup>·</sup>\*<sup>·</sup>

### Gi a a UfmcZh\Y'7ci fgY

H\]gʻWci fgYʻdfcj [XYgʻ]błfcXi WfcfmʻYj Y`ʻh ]h]cbʻ]bʻ? cfYUbʻ`Ub[ i U[ YʻZfca ʻUʻWca a i b]WUh]j YʻUbXʻHUg\_!VUgYX UddfcUWX "H\Yʻa YX]i a ʻcZ]bgłfi Wf]cbʻ]gʻ9b[ `]g\`UbXžk \YfYj YfʻUddfcdf]UhYž? cfYUb"H\fci [ \`h,]gʻWci fgYž mci ʻk ]``XYj Y`cd`VUg]WWca a i b]WUh]j Yʻg\_]``gʻ]bʻ? cfYUbʻh\fci [ \`j Uf]ci gʻgdYU\_]b[ `UbX`k f]h]b[ `UVMj] ]h]Yg" H\Y`Wci fgY`VY[ ]bgʻk ]h\`h\Y`? cfYUbʻgci bXʻgmghYa `UbX`VUg]W[ fYYh]b[ gʻUbX`]błfcXi WfgʻUʻbi a VYfʻcZ [ fUa a Uh]WU``ghfi Wi fYgʻUbX`j cWUVi `Ufmih\UhUfY`YggYbh]U`hc`VUg]WVca a i b]WUh]cb`]bʻ? cfYUb"`J cWUVi `Ufm UbX`[ fUa a Uh]WU``ghfi Wi fYgʻUfY`YI dfYggYX`]bʻ< Ub[ Yi ``UbX`dfYgYbhYX`k ]h\]bʻh\Y`WcbhYI hcZW``hi fU``m fY`Yj Ubhhcd]Vgʻ"H\Y`hcd]VgʻVcj YfYX`]b`h\Y`Wci fgY`]bWi XY`]blfcXi Wf]cbgʻUbX`[ fYYh]b[ gž? cfYUb`U`d\UVYhž YI W\Ub[ ]b[ `]bZcfa Uh]cbž'cZZyf]b[ `UbX`Ug\_]b[ ž'Wci bh]b[ ž'hY``]b[ `H\Y`h]a Y`UbX`a U\_]b[ `Uddfcdf]UhYžh\Y Wci fgY`i h]`]gYg`?!dcd`a UhYf]U`gʻUbX`fWh/Yf!fYU`]Uffi

H\]gʻWcifgYʻ]gʻUʻVY[]bbYfg!ʻYjYʻ``Ub[iU[YʻWcifgY"`5```ghiXYbhgʻk\cʻ\UjY`\UXʻgcaYʻYIdYf]YbWYʻk]h\ʻh\Y `Ub[iU[YžY]h\Yf`UgʻU`\Yf]hU[Y``Ub[iU[Yʻcfʻh\fci[\`dfYj]cig`]bghfiWh]cbžaighZ]```]bʻh\Y`d`UWYaYbh eiYgh]cbbU]fY`UjU]`UV`Y`Uh<u>\hhdg.#k k "Ufhgʻibgk"YXi"Ui #\U`#phiXmlig#fYgciftWg!giddcfh#Ub[iU[Y!</u> <u>d`UVY'aYbhg</u>"`Nci`k]```bchVY`dYfa]hhYX`hc`Ybfc``]b`U``Ub[iU[Y`WcifgY`h\Uh]gʻhcc`YUgmZcf`mci"`=Zh\]g cVWY fgžmci`k]```VY`fYeiYghYX`hc`W\Ub[Y`mcifYbfc`aYbh'

### 7cifgY`@YUfb]b[`CihWcaYg

- %" FYWc[b]gY`VUg]WgcibXg`UbX`gcibX`WcaV]bUh]cbg`]b`?cfYUb
- &" F YUX'UbX'k f]hY' < Ub[ Yi ``Uddfcdf]UhY`m
- ' "GdYU\_'k]h\`fYUgcbUV`mUVW/fUhY`dfcbi bWJUhjcb`UbX`]bhcbUhjcb`i g]b[`g]a\_d`Y`gYbhYbWY`dUhhYfbg k]h\]b`hcd]Wg`fY`UhYX`hc`gi fj]jU`!`Yj Y```Ub[i U[Y`i gY
- ("FYUX:g\cfhihYI hg`k \]WX`WcbHU]b`g]a d`Y`]bZcfa Uh]cb`k]h\]b`hcd]Wg`fY`UhYX`hc`gi fj ]j U`!`Yj Y```Ub[ i U[ Y i gY
- ) "9Ĩd`U]b`UgdYWfg`cZYjYfmXUm`]ZY`]b`?cfYUž`]bWiX]b[`ZccXžd`UWfg`cZj]g]hžg\cdd]b[žbiaVYfgžYhW

### HYUWX]b[ GhfUhY[]Yg

#### FUhjcbU`Y

? cfYUb'Ghi X]Yg'Uhil BGK 'dfcj ]XYg'ghi XYbhg'k ]h\ 'h\Y'cddcfhi b]hmhc'XYj Y`cd'U'VU`UbWY'cZWca dYhYbh ? cfYUb'`Ub[i U[Y'g\_]``g'UbX']b!XYdh\ '\_bck `YX[Y'UbX'i bXYfghUbX]b[ 'UVci h? cfYU"'5F HG%\*\*\$`]g'h\Y'j Yfm Z]fghcZh\Y'7 ci fgYg'h\UhU]a 'UhUXj UbW]b[ 'h\Y'ghi XYbhhc'U'Zi YbhWca a UbX'cZh\Y'? cfYUb'`Ub[i U[Y"

5FHG%\*\*\$fg:WcbhYbh]g:XYg][bYX'hc`\Y`d'h\Y`ghiXYbh'aYYh']a aYX]UhY``Ub[iU[Y`bYYXg`]b`fdfcYWhYXŁ YjYfnXUmig]hiUh]cbg`]b`?cfYU'UbX#cf`]b`]bhYfUWf]cbg`k]h\'?cfYUbg`]b`5ighfU`]Už'UbX'hc`YbUV`Y`h\Y`ghiXYbh]b dUfh]W`Uf`hc

- ]bhfcXi WY h\Ya gY`j Yg`UbX`[ fYYhdYcd`Yž
- YI WLUb[Y`]bZcfa Uhci hk \YfY`h\YmUfY`\YUX]b[`Zcf`fUg`dUfhcZh\Y`[fYYh]b[głž
- cZZYf<sup>·</sup>UbX<sup>·</sup>Ug\_<sup>·</sup>Zcf<sup>·</sup>fYZfYg\a Ybhgž
- Wci bhi]bi? cfYUbž
- hY```h\Y`h]a Y`UbX`a U\_Y`Uddc]bha Ybhgž

# 5ggYgga Ybh

### 5ggYgga YbhHUg\_g

5ggYgga Ybh'HJg_	K Y][ \h	8iY'8UHY	GhiXYbhi@YUfb]b[ CihWcaYgʻ5ggYggYX
A ]X!HYfa <sup>-</sup> HYgh	' \$I	=€`K YY_`)	%ž' &ž' (
DfYgYbhUh]cb <sup>+</sup>	&) I	: f]XUmž'K YY_`%\$	%ž`'Ž')
: ]bU``9I Ua '	()।	: cfa U``9I Ua `DYf]cX	&ž'(Ž')

### 5ggYgga Ybh8YfU]`g

5ggYgga Ybh% A ]X!HYfa HYgh

GHUfhXUhY. Bch5dd`]WUV`Y

@Yb[h\.'&'\cifg

#### 8YHJ]`g.

H\Y`A]X!HYfa`HYghfi bgʻZcfik ci\ci fgʻUbX'Vcbg]ghgʻcZei Ygh]cbgʻcbʻdfcbi bW]Uh]cbžij cWUVi `UfmUbX [fUa a Uh]WU`dUhYfbgʻUgʻk Y```UgʻVca dfY\Ybg]cbʻei Ygh]cbgʻnc'hYghk \Uh\UgʻVYYb``YUfbhih\i gʻZJf"

: YYXVUW\_'k ]``VY'[]j Yb']bX]j ]Xi U``m/'hYghg\YYhg'k ]``'VY'fYhi fbYX'hc'mci 'k ]h\'a Uf\_g'UbX'Wca a Ybhg"

Hi fb]h]b`gYh]b[.`H\]g`]g`bchU`Hi fb]h]b`Ugg][ ba Ybh

5ggYgga Ybh& DfYgYbhUh]cb

GhUfhXUhY.Bch5dd`]WUV`Y

@Yb[h\.`Hc`VY`ZbU`gYX`h\fci[\`WUgg`X]gW gg]cb

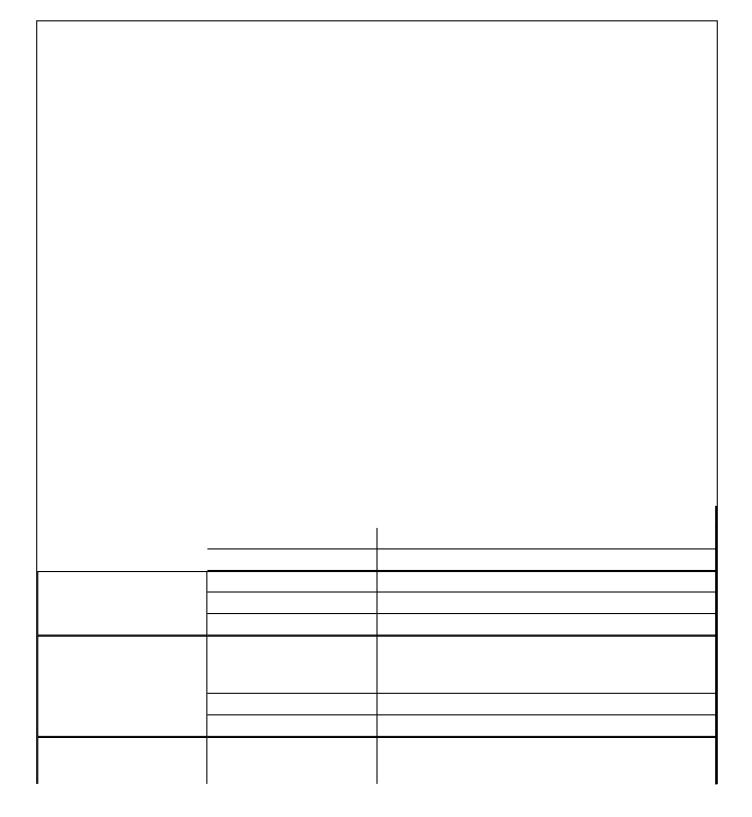
#### 8YHJ]`g.

91 dfYgg]b[ 'mci fgY`Z]b`gdYYW\`cf`Wcbj YfgUh]cb`]b'? cfYUb`VUgYX`cb`h\Y`gWf]dhidfYdUfYX''H\Y`dfYgYbHUh]cb k ]``VY`Z]`a YX`UbX`gi Va ]hhYX`Y`YWffcb]WU``m'`H\Y`hcd]Wgžk \]W\`g\ci `X`VY`fY`Yj Ubhhc`h\Y`7 ci fgYžh\Y`a cXYž k \Yh\Yf`gdYYW\`cf`Wcbj YfgUh]cbž'UbX`fi bb]b[ 'h]a Y`cZh\Y`j ]XYcžk \]W\`g\ci `X`bchVY`a cfY`h\Ub ) `a ]bi hYg`]b`WUgY`cZgdYYW\`UbX`%\$`a ]bi hYg`]b`WUgY`cZWcbj YfgUh]cbž'UfY`hc`VY`Z]bU`]gYX`h\fci [ \`WUgg X]gWigg]cb"

=bX]j ]Xi U`ZYYXVUW\_/a Uf\_g'UbX'Wca a Ybhg'k ]``VY'Ya U]`YX'hc mci "

Hi fb]h]b'gYh]b[.'H\]g']g'bchU'Hi fb]h]b'Ugg][ ba Ybh

5ggYgga Ybh' .: ]bU`9l Ua



			7 cbj YfgUh]cb
		Hi hcf]U`	DfUWMjWW/kcfXg'UbX'dUHHYfbg']b'Ib]h+'Wcbh]biYX"
		Hihcf]U`	DfUWMjWY`kcfXg`UbX`dUHHYfbg`]b`lb]h, "
5df]`	K_YY_``%&`5df]`'!`%* 5df]`	@YW <b>h</b> ifY	HU`_]b[ 'UVci hZ h fY'd`Ubg"'9I dfYgg]b[ 'k Ubhgž ]bWUdUV]`]hmUbX'WcbhfUghg"'I g]b[ 'XYgWf]dh]cb'j YfVg" I b]h- '7 cbj YfgUh]cb
		Hihcf]U`	DfUWfJWF k cfXg`UbX`dUHYfbg`]b`L b]h, \$

### FYgci fWg

g

-'G\]bž'; 'UbX'5'6i nc'k]h\'>'MUb['UbX'7'?]a "'f&\$&\$L''=adM&` [` 3Uf[a`,4aa] #"'K YV

ca '=adWS` [` 3Uf[a`, 4aa] #'K YV'9X]h]cb'UbX'h\Y'gci bX'Z]Yg'UfY'Uj U]`UV`YžZYY'cZW\Uf[Yž {bhg']b'5FHG%\*\*\$'j]U'A ccX`Y"

NYa [c'hc'h\Y'ffHYI hVcc\_'a UhYf]U`gflZc`XYf`cb'mci f`A ccX`Y`dU[Y`UbX`W]W\_`YUW\`cZh\Y`Z]`Yg" 'dUfhg`cZh\Y`HYI hVcc\_.`9I d`UbUh]cbg`UbX`K cf\_Vcc\_ž`YUW\`cZk \]W\`Wcbg]ghg`cZ%\$`I b]hg IYbYX`UbX`df]bhYX`Vm5WfcVUhF YUXYf"`H\YmUfY`]DUXg`UbX`5bXfc]X`HUV`Yhg`Zf]YbX`m" - Gci bX`Z]`Yg`UfY`Zcf`h\Y`9I d`UbUh]cbg`dUfhicb`mž`cf[Ub]gYX`]bhc`%\$`ddh`Z]`Ygž'k \]W\`WUb`VY 5`Dck YfDc]bh"

WYXihoʻdf]bhici himoi fick biWodmicZh\YihYIhVco\_iUbXihoʻi gYih\Yigoi bXiZj`YgiZofi`]ghYb]b[iUbX idfUWYJWYiZofiUia]b]aiaicZhkoi\cifgidYfikYY\_"

\Uhih\YmUfY`U```Wcdmf][\hYX`aUhYf]U`g"`8c`bchX]ghf]VihY`UbmcZ'h\Ya`k]h\cih8f';] {f]hhYb`WcbgYbh'

#### XYX<sup>·</sup>FYgci fW/g

'>UY`>ib['Gcb["'f&\$\$)Ł"'FZW=adWS` >S`YgSYW,EfdgUfgdW/GeWS`V5a`fWjfź@cbXcb. K[Y"

Y´—`Cb!`]bY`″GY∕cb[`?cfYUb″`Vm?]b[`GY∕cb[`⊕gh]hi hYžGYci`ž?cfYU"

# Gi Va ]gg]cb cZ5ggYgga YbhHUg\_g

# Hi fb]h]b Gi Va ]gg]cb

Zmci YbWci bhYfU'dfcV'Ya 'k \Yb'UhYa dhjb[ 'hc'gi Va ]hmci f'Ugg][ ba YbhH\fci [ \ 'Hi fb]hjbžd'YUgY hY'Yd\cbY'9I hYfbU'`Gi ddcfhcb'-',) '' ' %cf'Ya U]`'h\Ya 'cb'YI hYfbU'hY`hgi ddcfh4 i bgk "YXi "Ui '"`Gi ddcfh \ci fg'UfY', .\$\$Ua '-'%\$.\$\$da 'cb'k YY\_XUmg'UbX'-.\$\$Ua '-') .\$\$da 'cb'k YY\_YbXg'fl \*) 'XUmg'U'nYUft'' Zmci UfY'i bUV'Y'hc'gi Va ]hmci f'Ugg][ ba YbhXi Y'hc'U'ZJi `hk ]h\ 'Hi fb]hjb'mci 'a UmUdd`mZcf'Ub'YI hYbg]cbžVi hmci a i ghfYhU]b'mci f'hjW\_Yhbi a VYfZfca '9I hYfbU'`Gi ddcfhfU'cb[ 'k ]h\ 'Ubmch\Yf'fY'Yj UbhXcW a YbhgEhc ]bWi XY'Ug'Yj ]XYbWF'hc'gi ddcfhmci f'YI hYbg]cb'Udd`]WUhjcb'''Zmci 'Ya U]``9I hYfbU``Gi ddcfhimci 'k ]`` Ui hca UhjWU``mfYWY]j Y'U'hjW\_Yhbi a VYfžVi h]Zmci 'hY'Yd\cbY'mci 'k ]`` i 'c WZVU``mfg\_g cf'UbY''

# 5WUXYa ]W<cbYghmUbX`D`U[ ]Uf]ga

D`U[]Uf]ga `]g`i g]b[ 'H\Y`k cfXg`cf`]XYUg`cZcH\Yfg`UbX`dfYgYbH]b[ 'H\Ya `Ug`mci f`ck b"`=h\Wb`HU\_Y`a Ubm Zcfa gžZīca `XY`]VYfUHY`W\YUH]b[ 'hc`UWV]XYbHU``mWcdm]b[ 'Zīca `U`gci fW'`k ]H\ci hUW\_bck `YX[ Ya YbH'

I BGK '[fci dg'd`U[]Uf]ga ']bhc'h\Y'Zc``ck ]b[ 'WUhY[cf]Yg.

i bXYfgHUbX\*mci f\*f][\hg\*UbX\*fYgdcbg]V]`]h]Yg\*Ug\*U\*gh XYbhUhI BGK

# 5WUXYa]W=bZcfaUh]cb

: cf<sup>\*</sup>YggYbhJU<sup>\*\*</sup>gh XYbh<sup>\*</sup>]bZcfa UhJcb<sup>\*</sup>fY<sup>\*</sup>UhJb[<sup>\*\*</sup>hc.

- fYei YghgʻZcf'Yl hYbg]cb/
- `UhY`gi Va ]gg]cbg`[ i ]XY`]bYg/
- fYj ]Yk cZa Uf\_g/
- I BGK '<YU`h`UbX'GUZYImidc`]WjYg/
- YI Ua ]bUh]cb'dfcWfXi fYg/
- gdYWJU``Wcbg]XYfUH]cb`]b`H\Y`Yj YbhcZ]``bYgg`cf`a ]gUXj YbH fY/
- gh XYbhYei ]hmUbX`X]gUV]`]hm/
- UbX'ch\Yf'YggYbhJU``UWUXYa JWJbZcfa UhJcbž'gYY