

ARTS3450

5Xj UbWX 7\]bYgY 5

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

7ci fgY'Cj Yfj]Yk

'GhJZZ'7cbhJWh'8YhJ]`g'

'7cbj Ybcfg'

B Ua Y	9a U]`	5j U]`UV]`] m	@cWUhjcb	D\cbY
DfcZ8f`>cb'j cb ? ck U``]g`	^'_ck U``]g4 i bgk "YXi "Ui	- <i>'</i>	A cfj Yb 6fck b &' -	- ' ,)

"@YWhi fYfg"

B Ua Y	9a U]`	5j U]`UV]`]lm	@cWJhjcb	D\cbY
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	İ			

'Hi hcfg'

B Ua Y		5j U]`UV]`]hm	@cWUhjcb	D\cbY
8f"M]b[`]"Gi b	m]b[`]"gi b4 i bgk "YXi "Ui			

GWXcc`7cbHJWh = bZcfa Uh]cb

GWkcc`cZ<iaUb]hJYg'UbX'@Ub[iU[Yg

@c\Wbhcb. G\\cc``C\Z]\\\žA\cfj\Yb'6fck\b'6i]\X]b[\z'@\j\Y``&z'&),

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>

5ggYgga Ybh

5ggYgga Ybh'HUg_g'

5ggYgga Ybh'hUg_	K Y][\h	8i Y'8UHY	Gh XYbh@YUfb]b[Ci hWca Ygʻ5ggYggYX
HYgh%	& \$I	K YY_') 'hi hcf]U``f&%\$' #&\$% cf`&&#\$' #&\$% Ł"	%ž&Ž Ž(
; fci d'F YgYUfVX 'Dfc YVVg'	(\$1	HfUbg`Uhjcb]g Xi Y]b k YY_& f\$' #\$' #&\$% Łż k YY_ (f%+#\$' #&\$% Łż k YY_ * f1 %#\$' #&\$% Łż k YY_ , f1%(#\$(#&\$% Łż k YY_ , f1%(#\$(#&\$% Łż k YY_ ,	%ž&ž ž)
7 i `h fu``7 ca dcbYbh	&\$I	Ei]n'cbY']b'`YWnifY'kYY_') f&%#\$'#&\$%-Ł/Ei]n'&']b `YWnifY'kYY_'%% f1\$#\$(#&\$%-Ł"	
HYgh&'	&\$I	K YY_"%%'Hi hcf]U`g f1 \$#\$(#&\$% 'cf'\$%#\$)#&\$% Ł"	%3&2 ž(

5ggYgga Ybh'8YhJ]`g

5ggYgga Ybh'% 'HYgh'%

GhUfhXUhY. Bch5dd`]WUV`Y

 $8 YHJ]^g. 7 ca dfY Ybg]j Y HyghcZh Y ZfghZyk 'Wk Udhyfg'f%'') `\ci fgŁ'': YYXVUW_j JU']bX]j JXi U``Wca a Ybhgž fi Vf]Wž UbX']b! WUgg'X]gW gg]cb''$

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

5ggYgga Ybh&; fci d F YgYUfW Dfc YWg

GhUfhXUhY. Bch5dd`]WUV`Y

8 YHU]`g. `Ghi XYbhg`Wca d`YhY`hk c`[fci d`dfcYWhg. `%L`HfUbg`Uh]cb`fl%\$ı Łž`UbX`&Ł`F YgYUfW.`cb`h\Y]f`W\cgYbhcd]\W`k\]W\ [\W\]W\ XYg`U`fYgYUfW.`dUdYf`gi Va]\HYX`cb!`]bY`fl%) ı Łž`Ug`k Y```Ug`U`[fci d`dfYgYbhUh]cb`fl\a]bi hYg`dYf`dYfgcbŁ`]g`UggYggYX`cb`]bX]j]Xi U``VUg]gž'k\]Y`h\Y`fYgYUfW\`dUdYffl%) \$\$!&\$\$\$`W\UfUWHYfgŁ`fYWY]j Yg`cbY`a Uf_": YYXVUW_j jUfi Vf]WUbX`]b!WUgg`X]gW gg]cb"

5ggYgga Ybh' . '7i `hi fU` '7ca dcbYbh

GhUfhXUhY. Bch5dd`]WUV`Y

 $8YHU] `g. `Ghi XYbhg` UfY`[]j Yb`hk c`]b! WUgg`ei]nnYg`fl $`a]bi hYg`YUW\£": YYXVUW_j]U`fi Vf] WUbX`]b! WUgg X]gW gg]cb"$

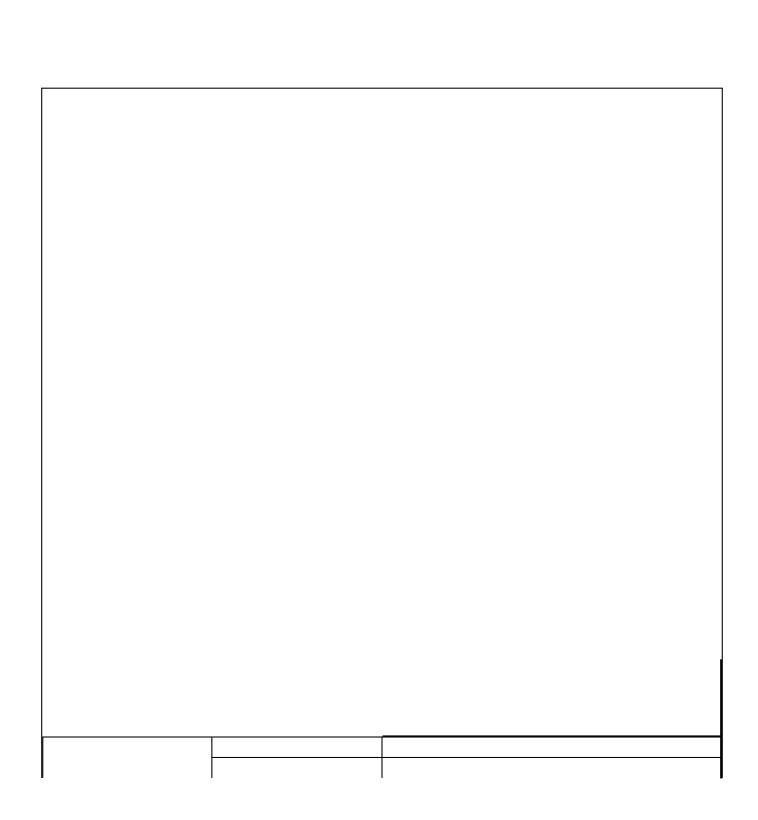
Hi fb]hjb gYhjb[. H\]g]g bchU Hi fb]hjb Ugg][ba Ybh

5ggYgga Ybh'(. HYgh'&

GhUfhXUhY. Bch5dd`]WUV`Y

 $8 YHJ] `g. `7 ca dfY Ybg] y `hYgh`ff'') `\ci fgŁ `cZh\Y``UghZYk `W\UdhYfg`g] bW\`HYgh''' Gh XYbhg`fYWY] y `U`a Uf_UbX`WUb`Wcbgi `h'h\Y`hYUW\] b[`gHUZZ Zcf`Z fh\Yf`ZYYXVUW_"H\] g`]g`h\Y`Z] bU``UggYgga Ybh'Zcf`UhHYbXUbW di fdcgY"$

Hi fb]hjb gYhjb[. H\]g]g bchU Hi fb]hjb Ugg][ba Ybh



F Ygci fWYg

DfYgWf]VYX F Ygci fWYg

Gi Va]gg]cb cZ5ggYgga YbhHUg_g

Gi Va]gg]cb cZ5ggYgga YbhHUg_g

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

_Zmci YbWci bhYf'U'dfcV`Ya 'k \Yb'UhYa dhJb['hc'gi Va]hmci f'Ugg][ba Ybhh\fci [\ 'Hi fb]hJbž'd`YUgY
hY`Yd\cbY'9| hYfbU``Gi ddcfhcb'-',) '' ' ' %cf'Ya U]`'h\Ya 'cb'Y! 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'mYUft'' =Zmci
UfY'i bUV`Y'hc'gi Va]hmci f'Ugg][ba YbhXi Y'hc'U'ZUi 'hk]h\'Hi fb]hJb'mci 'a Um'Udd'mZcf'Ub'Y! hYbg]cbžVi hmci
a i ghfYhU]b'mci f'hJW_Yhbi a VYf'Zfca '9! hYfbU``Gi ddcfhfU'cb['k]h\'Ubmch\Yf'fY`Yj UbhXcW a Ybhgt'hc
]bWi XY'Ug'Yj]XYbW'hc'gi ddcfhmci f'Y! hYbg]cb'Udd`]WUhJcb'' =Zmci 'Ya U]`'9! hYfbU``Gi ddcfhmci 'k]``

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

D`U[]Uf]ga i]gii g]b[ih\Yik cfXgicfi]XYUgicZch\YfgiUbXidfYgYbh]b[ih\Ya iUgimci fick b"i±iWUbihU_Yia Ubm Zcfa qžZfca iXYi]VYfUhYiW\YUh|b[ihciUVW]XYbhU`mWcdm]b[iZfca iUiqci fWYik]h\ci hiUW_bck iYX[Ya Ybh'i

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

7 cdm]b[.'i g]b['h\Y'gUa Y'cf'j Yfmg]a]`Uf'k cfXg'hc'h\Y'cf][]bU`hYl h'cf']XYU'k]h\ci h'UW_bck `YX[]b['h\Y gci fW'cf'i g]b['ei chUh]cb'a Uf_g"'H\]g'U`gc'Udd`]Yg'hc']a U[Ygž'Ufh'UbX'XYg][b'dfcYWhgž'Ug'k Y``'Ug dfYgYbhUh]cbg'k \YfY'gca YcbY'dfYgYbhg'Ubch\Yf'g']XYUg'cf'k cfXg'k]h\ci h'WfYX]h'

⇒ Uddfcdf]UhY 'dUfUd\fUg]b[...7\Ub[]b['U'ZYk 'k cfXg'UbX'd\fUgYg'k \]'Y 'a cghmfYhJ]b]b['h\Y'cf][]bU` ghfi Wh fY 'UbX#cf'dfc[fYgg]cb'cZ]XYUg'cZh\Y'cf][]bU'žUbX']bZcfa Uh]cb'k]h\ci hUW_bck `YX[Ya Ybh'H\]g'U`gc Udd`]Yg']b'dfYgYbhUh]cbg'k \YfY'gca YcbY'dUfUd\fUgYg'Ubch\Yf'g']XYUg'cf'k cfXg'k]h\ci hWfYX]hUbX'hc d]YW]b['hc[Yh\Yf'ei chYg'UbX'dUfUd\fUgYg']bhc'U'bYk 'k \c`Yžk]h\ci hUddfcdf]UhY'fYZYfYbW]b["

7 c``i g]cb. 'k cf_]b['k]th 'cth Yfg'Vi hidUgg]b['cZZth Y 'k cf_'Ug'U'dYfgcb'g']bX]j]Xi U``k cf_"'7 c``i g]cb'U`gc]bWi XYg'dfcj]X]b['mci f'k cf_'thc'Ubcth Yf'ghi XYbh'VYZcfY'th Y'Xi Y'XUHYZcf'Zcf'th Y'di fdcgY'cZth Ya

- i bXYfgfUbX mci f'f][\hg'UbX'fYgdcbg]V]`]hJYg'Ug'U'gh XYbhUhl BGK
- VY`Uk UfY`cZd`U[]Uf]ga ž`Wcdmf][\hz'l BGK `Gh XYbh7cXY`cZ7cbXi WhUbX`5VWWdhUV`Y`l gY`cZ I BGK `=\forall H`F Ygci f\W\g`Dc`]\m\m
- VY 'Uk UfY 'cZh\Y 'ghUbXUfXg 'cZVY\Uj]ci f'Yl dYWYX 'cZYj YfmcbY ']b 'h\Y 'l BGK 'Wca a i b]hm
- `cWUHY 'gYfj]WYg'UbX ']bZcfa UH]cb'UVci hI BGK 'UbX'I BGK '@]VfUfm

Gca Y'cZh\YgY'UfYUg'k]``VY'ZJa]`]Uf'hc'mci ž'ch\Yfg'k]``VY'bYk"'; U]b]b['U'gc`]X'i bXYfgHJbX]b['cZU``h\YfY`UhYX'UgdYWng'cZ9@+69'k]``\Y`d'mci 'a U_Y'h\Y'a cghicZmci f'ghi X]Yg'UhI BGK "'\\hd.##qi VYWfi |XYg"`]VfUfm'i bqk "YXi "Ui #\`]qY#JVci hY`]qY

5 WUXYa]W = b Zcfa Uh cb.

: cf`YggYbhJU``gh XYbh`]bZcfa UhJcb`fY`UhJb['hc.

- fYei Yghg Zcf Yl hYbg]cb/
- `UhY 'gi Va]gg]cbg'[i]XY`]bYg/
- fYj]Yk 'cZa Uf_g/
- I BGK '<YU`h\ 'UbX'GUZYhm'dc`]W[Yg/
- YI Ua]bUh]cb dfcWXi fYg/
- gdYWJU``Wcbg]XYfUhjcb`]b`h\Y`Yj YbhcZ]``bYgg`cf`a]gUXj Ybhi fY/
- gh XYbhYei]hmUbX X]gUV]`]hm/
- UbX'ch\Yf'YggYbhJU`'UWUXYa [W]bZcfa Uh]cbz'gYY

\hdg.#k k k "Uffig"i bgk "YXi "Ui #W ffYbhgh XYbhg#UWUXYa]W]bZcfa Ufjcb#dfchcWc`g![i]XY`]bYg#

a U[Y'7fYX]h