



ARTS3570

5Xj Ub₩X`GdUb]g\`5

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

7 ci fgY⁻Cj Yfj]Yk

`GHJZZ`7cbHJWh`8YHJ]`g`

'7cbj Ybcfg'

BUa Y	9a U]`	5j U]`UV]`]m	@cWUh]cb	D∖cbY
< YbUf`J]WYbHY! 7 f]ghcVU`			A cfj Yb 6fck b &&,	\$&`-' ,) %\$*(

GWXcc``7cbHJWhi=bZcfaUhjcb

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

@cWUhjcb. `GW&cc``CZJWYžA 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>

7ci fgY[·]8YHJ]`g

7 fYX]hDc]bhg[·]*[·]

Gi a a UfmcZh\Y'7ci fgY

GiVYW65fYU. EbS` [eZS`V >Sf[` 3_W6[US` EfgV[We

H\]gʻWci fgYʻdfcj]XYgʻUXj UbWYXʻYj Y``]bghfi Wijcb`]bʻGdUb]g\``Ub[i U[Yʻghi XmZfca 'UʻWca a i b]WUhji YʻUbX HUg_!VUgYXʻUddfcUWX "'Mci 'k]``XYj Y`cd'mci f``]ghYb]b['UbXʻgdYU_]b['g_]`gʻh\fci [\`Uʻbi a VYfʻcZX]ZYfYbh UWiji]hjYgž'Ugʻk Y``Ugʻmci f`fYUX]b['UbX`k f]hjb['g_]``gʻ]bʻGdUb]g\"'J cWUVi `UfmUbX`[fUa a UhjWU``ghfi Wi fYg UfYʻdfYgYbhYX`]bʻh\Y`WcbhYI hcZW `hi fU``mfY`Yj Ubh']ggi Yg"`5i X]c!j]gi U``k YV`VUgYX`a UhYf]U``]gʻi gYXʻUgʻUb]bhfcXi Wijcbʻhc`j cWUVi `Ufmž[fUa a Uf`ghfi Wi fYgʻUbX`W `hi fU``mfY`Yj Ubhrcd]Vgʻ"Hcd]Vgʻa Um]bWi XY

5ggYgga Ybh

D`YUgY`gYY`A ccX`Y`Zcf`XYHU]`YX`]bZcfa Uhjcb

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; fUa a Uf ⁻ E i]n ⁻			

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

5ggYgga Ybh(. 5i X]cj]gi U`UWAjj]h]Yg

GHJfhXUHY.Bch5dd`]WUV`Y

@Yb[h\.jUf]Yg

8YHJ]`g. DfY`WUgg`Ui X]c!j]gi U``UWjj]hjYg`fgY`ZUWWYggEhc`VY`Wca d`YhYX`k YY_`m"@Yb[h``UbX`HUg_g`j Ufm fei]nnYgžZcfi a gžfYUX]b[`Wca dfY\Ybg]cbž'Ui X]cgžj]XYcg"E6Yhk YYb`%\$`UbX`&\$`a]bi hYg`hc`Wca d`YhY`]b mci f`ck b`h]a Y`XYj Y`cd]b[``]ghYb]b[`g_]``gžk f]h]b[`cf`fYUX]b[": YYXVUW_`cb`]bYž`]bX]j]Xi U``Wca a YbhgžUbX]b!WUgg`X]gW gg]cb"

5XX]h]cbU``XYHJ]`g.

H\YmUfY`k YY_`mcb`]bY`UWf]j]h]Yg`hc`Wcad`YhY`VYZcfY``YWfi fYg``f%\$i E'UbX`(`5i X]j]gi U``hUg_g`f&\$i E'`hc Wcad`YhY`]b`k YY_`%Z' Z)`UbX`+"

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

5 HHYbXUbWY FYei]fYa Ybhg

Ghi XYbhgʻUfYʻghfcb[`mʻYbWci fU[YX'hcʻUhhYbX'U```WUggYgʻUbX'fYj]Yk ``YWhi fYʻfYWcfX]b[g"

7 ci fgY GWX YXi `Y

J]Yk WUgg ha YHJV Y

H]a YHJV`Y'

8 UHY	Hmd Y	7 cbhYbh
K YY_`%`% `: YVfi Ufm!`&(: YVfi Ufm	Hcd]W	DfYgYbHUNJI b`XY``Wfgc`Y`]bHcXi WNJI b`U``W]bY"`fA]fU A ccX`Y`dUfU`]bZcfa UNJI b`XYHU``UXU`XY``Ug UWNji]XUXYg`XY`YgHU`gYa UbUŁ FYW YfXU`dUfh]W]dUf`Yb`Y``Zcfc`YgHU`gYa UbU UbHYg`XY`]f`U``U``YWhffU 9gHU`gYa UbU`bc`\Umihi hcfÉUg 5i X]cj]gi U``%Wca d`YHU`UbHYg`XY``U`dfÏ I]a U hi hcfÉU
K YY_`&.`&) ': YVfi Ufm!'' A UfWX	Hcd]W	fA]fU'A ccX`Y'dUfU']bZcfa UWji b'XYHJ``UXU'XY``Ug UWjj]XUXYg'XY'YgHJ'gYa UbU'mdUfU'Wca d`YHJf dfYdUfUWji b``YWi fUŁ Hi hcfÉJ. '9``@UVYf]bhc'XY``: Ui bc'mYgWYbU'XY``U gYa UbU'7 ca YbHJa cg'j cWJVi `Uf]cž'YI dfYg]cbYgž W `hi fU"
K YY_'' . ('A UfVX '! '%\$ A UfVX	Hcd]W	fA]fU'A ccX`Y`dUfU`]bZcfa UWji b`XYHJ``UXU`XY``Ug UWji]XUXYg`XY`YgHJ`gYa UbU`mdUfU`Wca d`YHJf dfYdUfUWji b``YWi fUŁ Hi hcfÉJ. '9``@UVYf]bhc`XY``: Ui bc`YgWYbU'' hi hcfÉJ"7 ca YbHJa cg`j cWJVi `Uf]cž`YI dfYg]cbYgž W `h fU" 5 i X]cj]gi U``&``fIWca d`YHJ`UbHYg`XY``U`dfï I]a U Hi hcfÉJŁ

		9gHJigYa UbUiYa d]YnUbiiUgigYg]cbYgiXYicbi]bY WcUW&]b["8YVYgiWca diYHJfi) igYg]cbYgidUfU dUgUfiYghYiWca dcbYbhYiXYiWi fgc
K YY_`(.`%%`A UfVX`!`%+ A UfVX	Hcd]W	7 ca d`YHJ`UWMj]XUXYg`UbHYg`XY``U``YWn fU"fA]fU A ccX`Y`dUfU`]bZcfa UWji b`XYHJ``UXU`XY``Ug UWMj]XUXYg`XY`YgHJ`gYa UbU`Ł Hi hcfÉJ.
		9```UVYf]bhc`XY``: Ui bc`YgWYbU`(`.Wca YbHJa cg j cWJVi `Uf]cž`YI dfYg]cbYgž`W``hi fU"
K YY_`).`% `A UfVX`!`&(A UfVX	Hcd]W	7 ca d`YhU`UWMjj]XUXYg`UbhYg`XY``U``YWMifU"fA]fU A ccX`Y`dUfU`]bZcfa UWji b`XYhU``UXU`XY``Ug UWMjj]XUXYg`XY`YghU`gYa UbU`Ł
		Hi hofÉU.
		Ei]n'%Yb'HihcfÉU
		9```UVYf]bhc'XY``: Ui bc'YgWYbU'XY``U'gYa UbU Wca YbHJa cgij cWJVi `Uf]cž'YI dfYg]cbYgž'W``hi fU"
		5i X]cj]gi U`' `Wca d`YhU`UbhYg`XY``U`dfï I]a U hihcfÉU
K YY_`*.`&) `A UfVX`!'' % A UfVX	Hcd]W	7 ca d`YHU`UWMj]XUXYg`UbHYg`XY``U``YWMi fU"fA]fU A ccX`Y`dUfU`]bZcfa UWji b`XYHU``UXU`XY``Ug UWMj]XUXYg`XY`YgHU`gYa UbU`Ł
		Hi hcfÉJ.
		9```UVYf]bhc`XY``: Ui bc``YgWfbU`XY``U`gYa UbU``" 7 ca YbhJa cg`j cWJVi `Uf]cž`YI dfYg]cbYgž`W `h fU"
K YY_`+.`%`5df]``!`+`5df]`	Hcd]W	7 ca d`YHU`UWMjj]XUXYg`UbHYg`XY``U``YWMi fU"fA]fU A ccX`Y`dUfU`]bZcfa UWjI b`XYHU``UXU`XY``Ug UWMjj]XUXYg`XY`YgHU`gYa UbU`Ł
		Hi hofÉU.
		● 9g₩bU ⁻ ,

		5i X]cj]gi U``(``flWca d`YhU'UbhYg'XY``U'dfï I]a U h hcffult
K YY_', .`, '5df]`!'%('5df]`	Hcd]W	7 ca d`YhU`UWhjj]XUXYg`UbhYg`XY``U``YWhifU"fA]fU A ccX`Y`dUfU`]bZcfa UWjlib`XYhU``UXU`XY``Ug UWhjj]XUXYg`XY`YghU`gYa UbU`Ł
		Hi hcfÉU.
		[™] 9g₩bU`XY``U`gYa UbU
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K_YY_``%)	Hcd]W	@YWHifU"
		: f]XUm`]g`U`di V`]W\c`]XUmž'Hi hcf]U`g`\Uj Y`VYYb fYYgW\YXi`YX`Zcf`K_YY_`%%K_YX`%'.\$\$`!`%).\$\$``UbX K_YX`%).\$\$`"`%+.\$\$
K_YY_`%\$.`&&`5df]``!`&, 5df]`	Hcd]W	` A cbXUmUbX`H\i fgXUmUfY`di V`]W\c`]XUmgž``YWhi fY

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Cb`]bY'7cUWX]b[.'difVXUg]b['UbX'fY[]ghYf]b['h\fci[\'@]b[iUaYYh]b['kYVg]hY %"; c'hc`<u>\hhdg.#k k k"`]b[iUaYYh]b["Wca#Y[]ghfc"d\d</u> &"GY`YWicif`ib]jYfg]mžgY`YWincif`]bghfiWhcf#WUgg`gYWi]cbžYbhYf`ncif`dYfgcbU``]bZcfaUh]cb`UbX

gY`YWhimci f`dUma Ybhicdhjcb.

'"7\ccgYimci f`gYgg]cbiZfca ih\YiUj U]`UV`Y`gYgg]cbih]a Yg"iMci f`gYgg]cbik]``VYicbih\YigUa YiXUmUbX Uhih\YigUa Yih]a Yii b`Yggimci iW\Ub[Yi]h"

("5hthY'YbX'cZthY'fY[]glfUh]cb'dfcWyggžmci k]``fYWy]jY'U'WebZ]faUh]cb'YaU]`k]h\mcifWeUW\]b[

gYgg]cb'U[YbXU"'Mci 'Wb'gUj Y'h\Y'U[YbXU'Ug'U'XcW a Ybhcb'mci f'XYg_hcd"'D`YUgY'W\YW_'U```h\Y

]bZc``c[`]b`mcif`GhiXYbhfig`DcfhU``hcc.`[c`hc`<u>\hndg.#kkk"`]b[iUaYYhjb["Wca</u>

UbX`W]W_`cb`"GhiXYbh´hc``c[`]b"`ł5bm`]ggiYž'h\Y`ghiXYbhg\ci`X`WcbHUWfi`<u>giddcfh4`]b[iUaYYh]b["Wca</u>

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 YbhN fci [\ 'Hi fb]hjbž'd'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'mYUfŁ'" =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'YI hYbg]cbž'Vi hmci a i ghfYhU]b'mci f'hjW_Yhbi a VYf'Zfca '9I hYfbU``Gi ddcfhfU`cb['k]h`Ubm'ch\Yf'fY`Yj UbhXcW a YbhgŁ'hc]bWi XY'Ug'Yj]XYbWi'hc'gi ddcfhimci f'YI hYbg]cb'Udd`]WUh]cb''`=Zmci 'Ya U]``9I hYfbU``Gi ddcfhimci 'k]``

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"`=hWUb`hU_Y`a Ubm Zcfa gžZca `XY`]VYfUhY`W\YUh]b[`hc`UWW]XYbhU``mWcdm]b[`Zca `U`gci fWY`k]h\ci hUW_bck `YX[Ya Ybh'

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

7 cdm]b[..i g]b[.ih,Y`gUa Y`cf`j Yfmig]a]`Uf`k cfXg`hc`h,Y`cf][]bU``hYI h`cf`]XYU`k]h\ci hUW_bck `YX[]b[`h\Y gci fWF`cf`i g]b[`ei chUh]cb`a Uf_g"`H\]g`U`gc`Udd`]Yg`hc`]a U[YgžUfhUbX`XYg][b`dfc´YWfgž'Ug`k Y```Ug dfYgYbhUh]cbg`k \YfY`gca YcbY`dfYgYbhg`Ubch\Yf*g`]XYUg`cf`k cfXg`k]h\ci hWfYX]h"

=bUddfcdf]UhY`dUfUd\fUg]b[..7\Ub[]b[`U`ZYk`k cfXg`UbX`d\fUgYg`k \]`Y`a cghmfYhU]b]b[`h\Y`cf][]bU` ghfi Whi 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]h ch Yfg Vi hdUgg]b[cZth 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_'hc Ubch Yf gh XYbhVYZcfY h Y Xi Y XUhYžcf Zcf'h Y di fdcgY cZh Ya

- i bXYfgHJbX'mci f`f][\hg`UbX'fYgdcbg]V]`]h]Yg`Ug`U`ghi XYbh'Uh'I BGK
- VY Uk UfY cZdU[]Uf]ga žWcdmf][\lbzi BGK Ghi XYbh7 cXY cZ7 cbXi Wh0bX 5WW/dhUVY I gY cZ I BGK '=7 H'F Ygci fW/g'Dc']Wh
- VY Uk UfY cZh Y gHUbXUfXg cZVY Uj]ci f YI dYWYX cZYj YfmcbY]b h Y I BGK Wca a i b]m
- `cWUHY'gYfj]WYg'UbX']bZcfa UHjcb'UVci hI BGK 'UbX'I BGK '@VfUfm

Gca YicZh\YgYiUfYUgik]``VYiZJa]`]Ufihcimci žich\Yfgik]``VYibYk"'; U]b]b[`Uigc`]Xii bXYfgHUbX]b[`cZU```h\Y fY`UhYXiUgdYWfgicZ9@=G9ik]``\Y`dimci ia U_Yih\Yia cghicZmci fighi X]YgiUhil BGK"' <u>\hhd.#qi VYWfii]XYg"`]VfUfm"i bgk"YXi"Ui #Y`]qY#UVci hY`]qY</u>

5WUXYa]W=bZcfaUh]cb

: cf'YggYbhJU``ghi 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/
- | BGK '<YU`h\`UbX`GUZYhmidc`]W}Yg/
- YI Ua]bUh]cb'dfcWYXi fYg/
- gdYWJU`Wcbg]XYfUh]cb`]b`h\Y`Yj YbhcZ]``bYgg`cf`a]gUXj Ybh fY/
- gh XYbhYei]m/UbX X]gUV]`]m/
- UbX'ch\Yf'YggYbhJU``UWUXYa]W]bZcfa Uh]cbž'gYY

<u>htdg.#k k k "Ufng"i bgk "YXi "Ui #W ffYbhgh XYbhg#UWUXYa]W]bZcfa Uh]cb#dfchcWc`g![i]XY`]bYg#</u>

∋a U[Y[·]7fYX]h

A]b]ghYf]c`XY`9XiWUW)Ï bž`7i`hifU`m8YdcfhY"`B=DC.`\$'\$!%&!&,*!)

≠ghjhi hc`BUWjcbU``XY`HYWbc`c[ÉJg`9Xi WUhjj Ug`mXY`: cfa UWji b`XY``DfcZygcfUXc"

; YbYfU``]bZcfa UHjcb`.`<u>fYW fgcg"YXi WUHj cg4 a YVX"Yg</u>

<u>\hdg.##bhYZ'Yg#`</u>fYW fgcg"YXi WUhji cg4 a YWX"Yg

<u>7 fYUhj Y 7 ca a cbg 5 htf]Vi hjcb!Bcb7 ca a YfWjU'!G\UfY5`] Y'' "\$'I bdcfhYX</u>fF YWcbcWja]Ybhc!Bc7 ca YfWjU'! 7 ca dUfhjf={i U``Łf7 7 6 MB7!G5'' "\$Łž

7F=7CG

7F=7CG[.]Dfcj]XYf[.]7cXY[.]\$\$\$-,;