



ARTS3123

Gc`c`DYfZcfa UbWV`A U_]b[

HYfa`Hk c``##`&\$&%

7 ci fgY`Cj Yfj]Yk

GHJZZ`7cbHJW`8YHJ]`g

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B Ua Y	9a U]`	5j U]`UV]`]m	@cW]hcb	D\cbY
6fmc b]`HfYn]gY	V`hfYn]gY4 i bgk "YXi "Ui	D`YUgY`Ya U]`Zfgh Zc`f`Ub`Uddc]bha Ybh	K YVg]Yf 6i]X]b[`%%+	- ' ,) () %

Hi hcfg

B Ua Y	9a U]`	5j U]`UV]`]m	@cW]hcb	D\cbY
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GWcc`7cbHJW`bZcfa Uh]cb

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D\cbY.`f\$&Ł- ' ,) `(,) *

9a U]`. [gUa_4_i_bgk_"YXi_"Ui](#)

K YVg]Yf`. [k k k "Ufng"i bgk "YXi "Ui #gUa](#)

H\Y`GWcc`cZH`Y`5fng`UbX`A`YX]U`k ci `X`_]Y`h`F`YgdYWZ`"m5W_bck`YX[Y`h`Y`HfUX]`hcbU`7 i g]hX]Ubgž
h`Y`6YXY[U`fP`Ybg]b[hcb`W]a di gŁž; UX][U`f7]mUbX`5fhi`8Yg][b`7 Ua di gYgŁ`UbX`h`Y`B [i bbUk U`
dYcd`Y`f5i g]fU]Ub`8YZ`bW` : cfW`5WUXYa m]b`7 UbVYffUŁ`cZH`Y`UbXg`k \YfY`YUW`W]a di g`cZI`BGK`]g
`cW]hY`X"

7ci fgY'8YHJ]`g

7fYX]hDc]bhg`*`

Gi a a UfmicZ\hY'7ci fgY

Gi VYWh5fYU.'FZWSfdWS' V BWDad_ S' UWE fgV[W

5fY'mci`cc_]b['Zcf'U'WUfYf'Ug'U'dYfZcfa Yf3'8c'mci`k Ubhrc`i gY'dYfZcfa UbW'hc`YI dfYgg'mci`f'ck b
]XYUg3'H\]g`Wci fgY`]g`Zcf'U`gh`XYbhg`]bhYfYghYX`]b`k`cf_]b[`k`]h`dfUW]W`hc`XYj`Y`cd`U`dYfZcfa UbW`k`cf_
Zcf'di`V`]WdfYgYbhU]cb""DYfZcfa UbW`hU`Yg'd`UW`]b`h`Y`\YfY`UbX`bck`"H]a`Y`cdYbg`i`d`UbX`VcX]Ygž
]a`U[`Yg`UbX`k`cfXg`fYg`UdY`k`U`h`h`Y`ž`h`fY`WU`b`cc`_`_`Y`"K` \]Y`XfUk`]b[`cb`ZUa`Yk`cf_g`Zca`'fUX]h]cbg`cZ
`]j`Y`Ufh`UbX`dYfZcfa UbW`ž`YUW`k`YY`_`mik`cf_g`cd`k`]`dfcj`]XY`mci`k`]h`h`W`b]ei`Yg`Zcf`WYU]b[`mci`f`ck`b
dYfZcfa UbW`"Mci`k`]`YI`d`cfY`U`k`]XY`fUb[`Y`c`ZUfh]gh]WdfUW]W`gž`WYU]h]`Y`dfc`W`gg`Yg`UbX`W`]h]W`W`b`h`I`h
Zcf'a`U_]b[`mci`f`k`cf_"Mci`k`]`k`cf`h`fci`[`ci`h`h`Y`W`ci`fgY`cb`dfUW]W`ž`k`Y`h`Y`f`mci`UfY`a`U_]b[
dYfZcfa UbW`mci`fgY`Zcf`XYj`Y`cd]b[`mci`f`XfUa`U`h`f[]W`Z`Y`X`V`U`W`_`g_]`g`cb`h`Y`d`f`c`W`gg`"

7ci fgY`@YUfb]b[`Ci hWca Yg

%`grb`h`Yg]gY`Wca`d`YI`a`UH`f]U`g`Zca`fYUX]b[`gž`WUgg`YI`YfW]gYgž`dYYfg`UbX`gY`Z`XYj`Y`cda`Ybh]bhc`U
Wc`Yg]j`Y`)`a`]bi`h`gY`Z`XYj`]gYX`dYfZcfa`UbW`Zcf'di`V`]WdfYgYbhU]cb

g YžgUzd`cb`b`W`d`Y`d`Y`Zca`[\`X`Z`d`Y`g]W`d`Yf`h`b`ž`W`c`Y`f`b`h`Y`X`ž`d`Y`g`f`UbX`fY`Z`d`ac`h`Y`W`Ua`U`g`]`mci`h`f`c`d`U

Zcf'a`U_]b[`mci`f`k`cf_"Mci`k`]`k`cf`h`fci`[`ci`h`h`Y`W`ci`fgY`cb`dfUW]W`ž`k`Y`h`Y`f`mci`UfY`a`U_]b[dYfZcfa UbW`mci`fgY`Zcf`XYj`Y`cd]b[`mci`f`XfUa`U`h`f[]W`Z`Y`X`V`U`W`_`g_]`g`cb`h`Y`d`f`c`W`gg`"

5ggYgga Ybh

D`YUgY`gYY`Włi fgY`A ccXY`ZcF`XYHJ`YX`]bZcfa Uh}cb`cb`UggYgga Ybhg"

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5ggYgga YbhHUg_	K Y][\h	8i Y`8UH`	Gh XYbh@YUfb]b[Ci hWta Yg`5ggYggYX
8Yj Y`cd]b[`dfUWqVW dfYgYbhUjcbg`	&\$i	Bch5dd`]WUV`Y	&ž(ž)
A Učf`dYfZcfa UbVW`	()i		

Hi fb]hb'gYhb[. 'H\]g']g' bchU'Hi fb]hb'Ugg][ba Ybh

5ggYgga Ybh' . 'F YZYW]j Y'5bU'mg]g

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F i Vf]VZVca a YbhUfmUbX' [fUXY

Hi fb]hb'gYhb[. 'H\]g'Ugg][ba Ybh]g'gi Va]mYX'h\fc i [\ 'Hi fb]hb'UbX'ghi XYbth'Xc' bchgYY'Hi fb]hb'g]a]Uf]mfYdcfth"

F Ygci fWg

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D`YUgY`gYY`hY`Wci fgY`A ccX`Y`Zc`f`Ub`YI`h`bg]j`Y`"ghicZfYUX]b[g`UbX`X][]hU`fYgci fWg"

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H\]g`Wci fgY`]g`fci h]bY`m]a dfcj YX`cb`hY`VUg]g`cZ]bZcfa U`ZYXVUW`_[]j Yb`Vmghi XYb]g`hc`hYUWX`Yfg`Ug`k`Y`
Ug`h`fci [\`Zcfa U`a YWX`Ub]ga g`gi WX`Ug`A m9I dYf]YbW`]b`hY`Z]bU`k`YY`_g`cZ`hY`Wci fgY`"

A m9I dYf]YbW`ZYXVUW`_]g`j]hU`hc`gi ghU]b]b[`hY`"]Z`cZ`h]g`Wci fgY`"K`Y`YbXYUj`ci`f`hc`a`U`_`Y`hY`
dfYW]ci`g`gdUW`cZ`h]g`dYfZcfa`UbW`"UVcfUhc`fmUg`]bbcj`Uh]`Yz`Zi`]X`UbX`f][`cfci`g`Ug`dcgg]V`Yz`gc`d`YUgY`
dfcj`]XY`mci`f`ZYXVUW`_k`Yb`k`Y`fYei`Ygh]h`"

⊕`&\$\$%k`Y`UfY`VUW`_k`cf_]b[`k`]h`dYfZcfa`UbW`]b`U`g`UfYX`UbX`Wc`"UVcfUh]j`Y`ZJW`hc`ZJW`Ybj`]fcb`a`Yb`h`
K`Y`"YUfbYX`U`chUVci`hdYfZcfa`UbW`]b`&\$\$k`Yb`k`Y`XY`]j`YfYX`h]g`Wci`fgY`cb`]bY`UbX`gca`Y`cZ`hcgY`
]bg][`h]g`Uj`Y`"YX`hc`bYk`WUgY`gh`X]YgZ`YI`dYf]a`Yb]g`UbX`]XYUg`UVci`hk`U`h`k`Y`WU`b`Xc`k`]h`dYfZcfa`UbW`]b`
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Gi Va]gg]cb`cZ5ggYgga YbhiHUg_g

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Ʒmci`YbWci bHYf`U`dfcV`Ya`k` \Yb`UH`Ya` dh]b[`hc`gi`Va`]hmc`i`f`Ugg][`ba`Ybhi`h`fci`[`\`Hi`fb]h]b`z`d`Y`UgY`
HY`Yd`cbY`9I`HYfbU`Gi`ddcfhcb`-`,`)`"``"``%cf`Ya`Uj`h`Ya`cb`YI`HYfbU`HY`hgi`ddcfh4`i`bgk`"YXi`"Ui`"Gi`ddcfh`
`lci`fg`UfY`,`.\$\$Ua`-`-%\$.\$\$da`cb`k`YY`XUmg`UbX`-`.\$\$Ua`-`).\$\$da`cb`k`YY`YbXg`f1`*)`XUmg`U`mY`Uf2`Ʒmci`
UfY`i`bUV`Y`hc`gi`Va`]hmc`i`f`Ugg][`ba`Ybhi`Xi`Y`hc`U`Zi`h`k`]h`Hi`fb]h]b`mci`a`UmUdd`m`Zc`f`Ub`YI`HYbg]cb`z`Vi`hmc`i`
a`i`ghfY`hU]b`mci`f`h]W`Yhbi`a`VYf`Z`ca`9I`HYfbU`Gi`ddcfh`f`U`cb[`k`]h`Ubmc`h`Yf`fY`Yj`UbhXc`W`a`Yb`hg`L`hc`
]b`Wi`XY`Ug`Yj`]XYb`V`hc`gi`ddcfhmc`i`f`YI`HYbg]cb`Udd`]W]h]cb`"Ʒmci`Ya`Uj`9I`HYfbU`Gi`ddcfhmc`i`k`j`
Ui`hc`a`U]W]m`fY`W]j`Y`U`h]W`Yhbi`a`VYf`z`Vi`h]Zmci`HY`Yd`cbY`mci`k`j`b`YYX`hc`gd`Y`W]W]m`Ug`_`Zc`f`cbY`"
Hi`fb]h]b`U`gc`dfc]`]XYg`i`dXUH`g`cb`h`Y]f`gm`gh`Ya`g`hU`h`g`cb`Hk`]h`Y`f`"

;`YbYfU`mz`UggYgga`YbhiUg_g`a`i`gh`VY`gi`Va`]h`Y`X`Y`Y`W`f`cb]W]m`j`]U`Y`]h`Y`f`Hi`fb]h]b`cf`U`A`cc`X`Y`
Ugg][`ba`Yb`h`h`b]bg`h`Ub`W`g`k` \Y`fY`h`g`]g`b`ch`d`c`g`g]V`Y`z`]h`k`]`VY`g`h`U`h`X`cb`mci`f`W`ci`fg`Y`g`A`cc`X`Y`g`]h`k`]h`
U`h`Y`fb`U`h]`Y`gi`Va`]gg]cb`X`Y`hU]`g`"

:`cf`]b`Z`fa`U`h]cb`cb`l`ck`hc`gi`Va`]h`Ugg][`ba`Yb`hg`cb`]b`Y`j`]U`A`cc`X`Y`.`h`h`d`g`#`gh`XYb`h`i`bgk`"YXi`"Ui`#`ck`!
gi`Va`]h`Ugg][`ba`Yb`h`a`cc`X`Y`"

5 WUXYa]W< cbYgmiUbX`D`U[]Uf]ga

D`U[]Uf]ga `]g`i`g]b[`h`Y`k`c`f`X`g`c`f`]X`Y`U`g`c`Z`c`h`Y`f`g`i`U`b`X`d`f`Y`g`Y`b`h]b[`h`Y`a` `U`g`m`c`i`f`c`k`b`" `#`W`U`b`h`U`_`Y`a` `U`b`m`
Z`c`f`a`g`Z`Z`c`a` `X`Y`]V`Y`f`U`h`Y` `W`X`Y`U`h]b[`h`c` `U`W`W`Y`X`Y`b`h`U` `m`i`W`c`d`m]b[`Z`c`a` `U`g`c`i`f`W` `k`]h`c`i`h`U`W`_`b`c`k` `Y`X[`Y`a` `Y`b`h`

I`B`G`K` `[`f`c`i`d`g`d`U[]Uf]ga `]b`h`c` `h`Y` `Z`c` `c`k`]b[`W`U`h`Y`[`c`f`]Y`g.

- i bXYfgHUbX'mci f'f][\hg'UbX'fYgdcbg]V']hYg'Ug'U'gh XYbhUhl BGK
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