



SOCW2003

ϕhfcXi W]cb`hc`GcW]U`K cf_7 ci bgY``]b[`UbX`5ggYgga Ybh

HYfa `Cby`#`&\$&%

GWcc`cZGcW]U`GWYbWg`#`1 BGK ``5ffg`UbX`GcW]U`GWYbWg

7 ci fgY`Cj Yfj JYk

GHJZZ7cbHJW8YHJ`g

7cbj Ybcfg

B Ua Y	9a U]	5j U]UV]]m	@cW]h]cb	D\cbY
A g"? Yff]Y`>Ua Yg	? Yff]Y`^Ua Yg4 i bgk "YXi "Ui	D`YUgY`Ya U]`hc a U_Y`Ub Uddc]bha Ybh		\$(\$*-- *' --

Hi hcfg

B Ua Y	9a U]	5j U]UV]]m	@cW]h]cb	D\cbY
9j U`6Yb^Ua]b	Y"VYb^Ua]b4 i bgk "YXi "Ui	D`YUgY`Ya U]`hc a U_Y`Ub Uddc]bha Ybh		
>Ygg]Y`7\i b[^Ygg]Y"WXi b[4 i bgk "YXi "Ui	D`YUgY`Ya U]`hc a U_Y`Ub Uddc]bha Ybh		
Hf]W]U`F m]b	d"fr]b4 i bgk "YXi "Ui	D`YUgY`Ya U]`hc a U_Y`Ub Uddc]bha Ybh		

GW\cc``7cbHJW8Zcfa U]h]cb

GW\cc``cZGcW]U`GW]ybW]g

Fcca`%) -

A cfj Yb`6fck b`7 &\$

Ya U]`.gcgg4 i bgk "YXi "Ui

d\cbY.`\$&`-' ,)`% \$+

7ci fgY'8YHJ]`g

7fYX]hDc]bHg '*`

Gi a a UfmicZh\Y'7ci fgY

H\]g`Wci fgY`]bfcXi Wg`mci`hc`Zci bXU]cbU`gcWU`k cf_g_]`g`UbX`UddfcUWXyg`WbhfU`hc`XYj Y`cd]b[
YZYW]j Y`W]YbhfY`U]cbg\]dg" Mci`k`]"`YUfb`_YmfY`U]cbU`GcWU`K cf`Wci bgY``]b[`g_]`gž]bWi X]b[
Yb[U[Ya Yb]ž`U]bX]b[ž`fYZYW]j Y`]"ghYb]b[ž`Ya dU]mUbX`Ug_]b[`ei Ygh]cbg" H\YgY`g_]`g`Wcbgh]i hY`h\Y
VYXfcW`cZgcWU`k cf`dfUW]W]k]h`W]YbHg`fY[UfX`Ygg`cZh\Y`dfUW]W]a Yh`cX`i gYX" Mci`k`]"`U`gc`YUfb
\ck`hc`WcbXi W]U`gcWU`k cf`_a`i`h]X]a Ybg]cbU`W]YbhUggYgga Ybh]XYbh]Z]b[`UbX`dfcXi W]b[`U`fYdcf]cb
_YmXca U]bg`k` \]W]`]bWi XY`dfYgYbh]b[`dfcV`Ya gž`fY`U]cbg\]dgž`gcWU`bYhk cf_gž`f]g_g`ZUW]X`Vm]h\Y
dYfgcbž`ghYb[h\g`UbX`gi]hUV`Y`[cU`g`Zcf`Wci bgY``]b[""

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

%" ⇒Ybh]ZmUbX`XYZ]bY`_YmWcbW]drg`]b`GcWU`K cf`Wci bgY``]b[`Wca a i b]W]h]cbž`Yb[U[Ya YbhUbX
UggYgga Ybh
&" 8Ya cbghfU]Y`g_]`g`cZYa dU]h]WYb[U[Ya Ybhk]h`W]YbHg
, ""

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5ggYgga YbhHUg_g	K Y][\h	8i Y'8UHŸ	Gh XYbh@YUfb]b[Ci hŸa Yg'5ggYggYX
hŸfj]Yk '5bU`mg]g') \$i	&* # \$ ' #&\$&%%%)) 'DA	&ž'
7`]Ybha i `h!X]a Ybg]cbU` UggYgga YbhFYdcfh) \$i	' \$# \$(#&\$&%%%)) 'DA	%ž' (ž)

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5ggYgga Ybh%`hŸfj]Yk '5bU`mg]g

GHŸfhXUHŸ. Bch5dd`]WVY

@Yb[h. `&ž\$\$\$k cfXg'd'i g') `a]bi hŸ'j]XYc`]bhŸfj]Yk `Z]a YX`]b`WUgg

8YhU]`g.

H\]g`hk c`dUfhUggYgga Ybh]bj c`j Yg`]ĸgh XYbhg`gi Va]h]b[`U`j]XYc`XYa cbghfU]cb`cZ_Ymg_]`g`]bWŸ X]b[
UW]j Y`]]ghYb]b[žYa dUhmUbX`YZYW]j Y`ei Ygh]cb]b[`UbX/]ĸU`&ž\$\$\$k cfX`W]h]WU`UbU`mg]g`UbX`gY`Z
fYZYW]cb`cb`hŸY`]bhŸfj]Yk`gi Va]hŸX`"6ch`hŸY`j]XYc`UbX`gY`ZfYZYW]cb`UfY`gi Va]hŸX`UbX`UggYggYX
h[YhŸYf"

7ca a Ybhgžfi Vf]WfA ccX`Yłž&k YY_g`dcghXi Y`XUHŸ"

Gi Va]gg]cb`bchŸg.]]XYcg`UfY`h[VY`i d`cUXYX`gi Va]hŸX`j]U`cbYXf]j Y

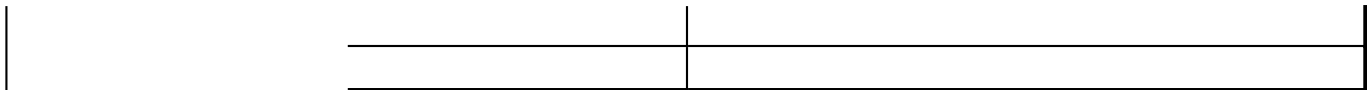
Hi fb]h]b`gYh]b[. H\]g`Ugg][ba Ybh]g`gi Va]hŸX`hfc i [\ `Hi fb]h]b`UbX`gh XYbhg`W]b`gYY`Hi fb]h]b`g]a]Uf]m
fYdcfhg"

5ggYgga Ybh&. 7`]Ybha i `h!X]a Ybg]cbU`UggYgga YbhFYdcfh

8YhU]`g.

Gh XYbhg`XYj Y`cd`U`&ž\$\$\$k cfX`W]YbhUggYgga YbhFYdcfhVUgYX`cb`dcXW]gh]bhŸfj]Yk`g`k` \]W`]bWŸ XYg`U
Z]a]m[Ybc[fUa žUbX`UggYgga YbhczW]Ybh]ggi Ygž Z bW]cb]b[žfY`Uh]cbg\]dgžgcW]U`bYhk cf_gž`W`h`fU`
UbX`gcW]YhU`W`bŸh]i hžf]g_gžghfYb[h]gžUbX`[cU`g`Zcf`W`i bgY`]]b[`]bhŸfj Ybh]cb"

7ca a Ybhgžfi Vf]WfA ccX`Yłž&k YY_g`dcghXi Y`XUHŸ" H\]g`]g`hŸY`Z]bU`UggYgga YbhZcf`h]g`W`i fgYžZcf
UHŸbXUbW`di fdcgYg"



F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

K YY_mfYUX]b[g'hc`VY`UXj]gYX

F YWca a YbXYX`F Ygci fWg

6CC?G

‡ Ym5žUbX`6fUXZcfx`‡ YmžA "f&\$\$' Ł`bH`bh]cbU`bH`fj]Yk]b[`5bX`7 ci bgY``]b[`: : UW]rU]b[`7`Ybh

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`cb`Y`9I`HY`fb`U`Gi`ddcfh`cb`-`,`)`"``"``%cf`Ya`Uj`h`Ya`cb`YI`HY`fb`U`HY`hgi`ddcfh`4`i`bgk`"YXi`"Ui`"Gi`ddcfh`
`l`ci`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`Um`Udd`m`Zc`f`Ub`YI`HY`bg]cb`z`Vi`hmc`i`
a`i`gh`fY`h]b`mci`f`h]W`Yhbi`a`VY`f`Z`ca`9I`HY`fb`U`Gi`ddcfh`f`U`cb[`k`]h`Ub`mci`h`Y`f`fY`Yj`Ub`h`Xc`W`a`Yb`hg`L`hc`
]b`Wi`XY`Ug`Yj`]XY`b`W`hc`gi`ddcfh`mci`f`YI`HY`bg]cb`Udd`]W`h]cb`"Ʒmci`Ya`Uj`9I`HY`fb`U`Gi`ddcfh`mci`k`j`
Ui`hc`a`U`h]W`m`f`Y`W`j`Y`U`h]W`Yhbi`a`VY`f`z`Vi`h]Z`mci`HY`Yd`cb`Y`mci`k`j`b`YYX`hc`gd`Y`W`Z`W`m`Ug`_`Zc`f`cb`Y`
Hi`fb]h]b`U`gc`d`fcj`]XY`gi`d`XU`h`g`cb`h`Y]f`gm`gh`Ya`g`h`U`h`g`cb`Hk`]h`Y`f`"

;`Yb`Yf`U`m`z`Ugg`Ygga`Ybhi`Ug_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`gh`Ub`W`g`k`Y`f`Y`h`g`]g`b`ch`d`c`gg]V`Y`z`]h`k`j`VY`gh`U`h`X`cb`mci`f`W`ci`fg`Y`g`A`cc`X`Y`g`]h`k`]h`
U`h`f`b`U`h]`Y`gi`Va`]gg]cb`XY`h]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`d`g`#`gh`XY`b`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[`hY`k cfXg`cf`]XYUg`cZc`hYfg`UbX`dfYgYbh]b[`hYa `Ug`mci f`ck b" `#WUb`hU`Y`a Ubm
Zcfa gZ`Zca `XY`]VYfUHY`WXYUH]b[`hc`UWV]XYbhU`mWc`dm]b[`Zca `U`gci fW`k]h`ci hUW`bck `YX[Ya Ybh`

I BGK `[fci dg`d`U[]Uf]ga `]bhc`hY`Zc`ck]b[`WUHY[cf]Yg.

7 cdm]b[.`i g]b[`hY`gUa Y`cf`j Yfmg]a]Uf`k cfXg`hc`hY`cf][]bU`hYI hcf`]XYU`k]h`ci hUW`bck `YX[]b[`hY

- i bXYfghUbx'mci f'f][\hg'UbX'fYgdcbg]V]h]Yg'Ug'U'gh XYbhUhl BGK
- VY'Uk UfY'cZd'U[]Uf]ga ž'Wcdmf][\hžI BGK 'Gh XYbh7cXY'cZ7cbXi W'Ubx'5Ww'dhUV'Y'I gY'cZ I BGK '⇒H'F Ygci fW'g'Dc`]Wm
- VY'Uk UfY'cZh'Y'ghUbxUfXg'cZVY\Uj]ci f'YI dYW'X'cZYj Yfmcby`]b'h'Y'I BGK 'Wca a i b]m
- `cWJh'gYfj]Wg'UbX'j]bZcfa Uh]cb'UVci hl 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 bXYfghUbx]b['cZU`h'Y fY'UH'X'UgdYW'g'cZ9@G9'k]`Y'd'mci 'a U_Y'h'Y'a cghcZmci f'gh X]Yg'Uhl BGK ""

[\hd. #gj V'YWf i \]XYg" \]VfUfm'i bgk "YXi "Ui #` \]gY#JVci h' \]gY](#)

5 WUXYa]W=Zcfa Uh]cb

: cf`YggYbh]U`ghi XYbh]bZcfa Uh]cb`fY`Uh]b[`tc.

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