



# SOCF5108

H\YfUdYi h]W7 cbhYI hg'UbX'F Y`Uh]cbg\]dg

HYfa `C.bY`#`&\$&\$



GWcc`cZGcWJU`GWYbWg`#`I BGK ``5ffg`UbX`GcWJU`GWYbWg

7ci fgY`Cj Yfj JYk


7ci fgY'8YHJ]`g

7fYX]hDc]bng`\*`

Gi a a UfmicZ\Y'7ci fgY

H\]g`ZfghWci fgY'cZ\Y'A UghYf'cZ7ci bgY``b[ `GcWU`K cf\_dfc[ fUa `k ]``]bffcXi W`mci `hc`hY'dUfUa YHfg  
cZ\cbHYI hUbX'fY`U]cbg\]d`]b`Wci bgY``]b[ `UbX`Wcbg]XYf'hY'[ YbYf]WgcWU`k cf\_cfybhU]cb`hc`W]Ybng'  
ghfYb[ h`g`UbX'fYg]YbW``Mci `k ]``YI Ua ]bY`hY`ja dcfUubW`cZ\Y'gdYWZ]W]micZ\cbHYI hg`cZ\YfUdmUbX  
WcbHYI hi U`UbX'dck Yf`]ggi Yg`]b`hYfUdYi h]WfY`U]cbg\]dg``Mci `k ]``U`gc`XYj Y`cd`hY`WdUW]mZcf`W`hi fU`  
UbX`X]j Yfg]mfYgdcbg]j YbYgg`]b`hY`WcbHYI hcZ\cbHYa dcfUfmgcWU`k cf\_`Wci bgY``]b[ `dfUW]W``Mci `k ]``  
U`gc`Yb[ U[ Y`k ]h`]ggi Yg`]b`mci f`ck b`dfUW]W`cZi gY`cZgY`Z`Yb[ U[ Ya Ybhz`Ya dU]h`mz`WcbHY]ba Ybhz`UbX  
Vci bXUf]Yg"

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

%` 8Ya cbghfUHY`Uk UfYbYgg`cZU`i gY`cZgY`Z]b`Wci bgY``]b[ "  
&` 9I d`U]b`hY`YZYW]g`cZ\cbHYI hi U`]ggi Yg`]b`hY`hYfUdYi h]WfY`U]cbg\]d  
'` " =>Ybhz]mUbX`YI d`cfY`]ggi Yg`cZ`Yb[ U[ Ya Ybhz`Ya dU]h`mz`WcbHY]ba Ybhz`UbX`Vci bXUf]Yg`k ]h`]b`hY`  
Wci bgY`cf!W]YbhfY`U]cbg\]d  
(

# 5ggYgga Ybh

5ggYgga YbhHUg\_g`

5ggYgga YbhHUg_	K Y][ \h	8i Y'8UH	Gh XYbh@YUfb]b[ Ci hWta Yg'5ggYggYX
F YZYW]cb`YggUm	( \$i	& # #&\$&\$	%z(
F YgYUfW`YggUm	* \$i	& # #&\$&\$	&z

## 5ggYgga Ybh8YHJ]g

5ggYgga Ybh% F YZYW]cb`YggUm

GHUfhXUH. Bch5dd]WVY

@Yb[ h. % \$ \$

8YHJ]g. Gh XYbhg:k ]`gi Va ]hU`W]hW`fYZYW]cb`d]YW`fa Ul ""% \$ \$ k cfXgk`cb`U`cb`U`hd]WfY`Yj Ubhrc`hY  
Wci fgY`a Uhf]U`"Gh XYbhg:k ]`fYW]j Y`k f]hYb`ZYXVUW`UbX`U`bi a Yf]W`[ fUXY`k ]h]b`hYb`k cf\_]b[ `XUmg`cZ  
gi Va ]gg]cb`"H\Y`ZYXVUW`g\YYh#i Vf]Wk ]`VY`Uj U]UV`Y`hc`gh`XYbhg`Uih`Y`ghUfhcZ`hY`Wci fgY`gc`h`Uih`Ym  
W]b`k cf`\_`hc`k UfXg`gdYW]ZYX`ghU`bXUfXg`"

5XX]h]cbU`XYHJ]g.

D`YUg`gYY`hY`Wci fgY`A`ccX`Y`dU[ `Y`Zcf`UXX]h]cbU`]bZ`fa`U]cb`cb`U`"UggYgga YbhHUg\_g"

Hi fb]h]b`gYH]b[ . H`h]l]g]a`l]s`i]g]h]g]e`n]h]X`h`S`u`b`m]i]t]l]e`d`U`b`k`h`c`X`u`g`h`W`f`g`Y`h`i]t]i]o]n]b]a]n]d`U`S`t`u`d`e`n`t`s`  
fYdcfg"

5ggYgga Ybh& F YgYUfW`YggUm

GHUfhXUH. Bch5dd]WVY



# F Ygci fWg

DfYgWf]VYX F Ygci fWg

7ca di hf #hWb]WU F Yei ]fYa Ybfg

A ccX`Y ]g`h`Y`@YUfb]b[ `A UbU[ Ya YbhGmgH`Ya `i`gYX`Uhl` BGK ``5``W`i` fgYg`\\Uj`Y`U`A` ccX`Y`g]h`k`\\]W`k` ]` VYW`a`Y`Uj`U]`UV`Y`hc`gh`XYbfg`Uh`YUghcbY`k`YY`\_`VY`Z`c`f`Y`h`Y`g`h`U`f`h`c`Z`g`Ya`Y`g`h`f`D`Y`U`g`Y`Z`b`X`U```Y`d`Ub`X` XcW`a`Y`b`h`h`c`b`f`]b`W`i`X]b[ `6`UW`V`c`U`f`X`7`c``UV`c`f`U`h`Y`E`U`h`h`Y`A` ccX`Y`Gi` ddcfh`d`U[ `Y`

I BGK `A` ccX`Y`gi` ddcfh`g`h`Y`Z`ck`]b[ `k`YV`Vfck`gYfg.

- ; cc[ `Y`7`\\fca`Y`) \$Z
- GUZ]f]`%\$Z

f`h`h`fb`Y`h`9i`d`c`f`Y`f`]g`b`c`h`f`Y`W`a`a`Y`b`X`Y`X`/`5`X`!`c`b`g`Ub`X`H`c`c`V`U`f`g`W`U`b`U`Z`Y`W`i`U`b`m`V`f`c`k`g`Y`f`g`d`Y`f`Z`c`f`a`Ub`W`E`

C`d`Y`f`U`h`]b[ `]g`m`g`h`Y`a`g`f`Y`W`a`a`Y`b`X`Y`X`U`f`Y`. `K` ]b`X`c`k`g`+`z`%`\$`Z`A`U`W`C`G`L`G`Y`f`f`U`Z`]D`U`X`€`G`%`\$`

:`c`f`Z`f`h`Y`f`X`Y`h`U]g`U`V`c`i`h`g`m`g`h`Y`a` `f`Y`e`i` ]f`Y`a`Y`b`f`g`W]W`\_`\\`Y`f`Y`"@`c[ `]b`h`c`A` ccX`Y`\\`Y`f`Y`"

:`c`f`c`i`f`6`UW`V`c`U`f`X`7`c``UV`c`f`U`h`Y`h`i`h`c`f]U`g`z`m`c`i` `k` ]``f`Y`e`i` ]f`Y`.

- U`\\`Y`U`X`g`Y`h`k` ]h`U`a` ]W`c`d`\\`c`b`Y`f`U`b`X`U`W`U`a`Y`f`U`z`]Z`m`c`i` `k` ]g`\\`E`
- U`V`f`c`U`X`V`U`b`X`]b`h`f`b`Y`h`W`e`b`b`Y`W`]c`b`f`E`)\*`?`V]h`g`Y`W`c`f`Z`J`h`f`E`

Z`m`c`i` `b`Y`Y`X`Z`f`h`Y`f`U`g`]g`h`U`b`W`k` ]h`A` ccX`Y`.

:`c`f`Y`b`f`c`a`Y`b`h`U`b`X`c`[ `]b`]g`g`i`Y`g`d`Y`U`g`Y`W`e`b`h`U`W`h`#`H`G`Y`f`j`]W`7`Y`b`f`Y`

9a`U].` ]f`g`Y`f`j`]W`W`b`h`f`Y`4`i`b`g`k`"Y`X`i`"U`i`

D`\\`c`b`Y`.f`\$`&`E`-`,`,) `%'`''`

#`h`f`b`U`h`c`b`U`.Z`\*`%`&`-`,`,) `%'`''`

Gi` ddcfh`\\`c`i`fg.

A`c`b`X`U`m`-: `f`]X`U`m`,`.\$`\$`U`a`-`,`.\$`\$`d`a`

G`U`h`f`X`U`m`/`Gi`b`X`U`m`%`%`\$`\$`U`a`-`,`&`.\$`\$`d`a`

:`c`f`U``c`h`Y`f`A` ccX`Y`]g`g`i`Y`g`d`Y`U`g`Y`W`e`b`h`U`W`h`9i`h`f`b`U`H`9`@`H`Gi` ddcfh`

9a`U].`Y`i`h`f`b`U`h`Y`h`g`i` ddcfh`#`i`b`g`k`"Y`X`i`"U`i`

D`\\`c`b`Y`.f`\$`&`E`-`,`,) `%'`''`%

#`h`f`b`U`h`c`b`U`.Z`\*`%`&`-`,`,) `%'`''`%

Gi` ddcfh`\\`c`i`fg.

A`c`b`X`U`m`-: `f`]X`U`m`,`.\$`\$`U`a`-`,`%`.\$`\$`d`a`

G`U`h`f`X`U`m`/`Gi`b`X`U`m`-`,`.\$`\$`U`a`-`,`)`. \$`\$`d`a`

@]VfUfmUbX`dfYgWf]VYX`fYgci`fWg

5``h`Y`W`e`f`Y`U`b`X`U`X`X]h`c`b`U`f`Y`U`X]b[ `g`U`f`Y`U`j`U]`UV`Y`Z`f`c`a` `h`Y`W`e`i` fgY`f`Y`U`X]b[ ``]b`\_`c`b`A` ccX`Y`"M`c`i` `W`U`b` U`W`W`g`g`h`Y`f`Y`U`X]b[ `g`U`b`X`h`Y`W`e`i` fgY`a`U`h`f`U`g`V`m`c`[ `[ ]b[ `c`b`h`c`h`Y`A` ccX`Y`d`U[ `Y`Z`c`f`h`]g`W`e`i` fgY`k` ]h`m`c`i` f`g]b[ `Y`g][ `b`c`b`g`h`X`Y`b`h`c`[ ]b`"

M`c`i` `a`i`g`h`f`Y`U`X`Y`U`W`X`c`Z`h`Y`W`e`f`Y`f`Y`U`X]b[ `g`Y`U`W`X`k`Y`Y`\_`z`d`f]c`f`h`c`g`W`X`Y`X`i` `Y`X`U`W`]j`]h`Y`g`"M`c`i` `a`U`m`U`g`c`k` ]g`\\`h`c` f`Y`U`X`h`Y`U`X`X]h`c`b`U`c`d`h`c`b`U`f`Y`U`X]b[ `f`g`E`"

M`c`i` `k` ]``U`g`c`V`Y`f`Y`e`i` ]f`Y`X`h`c`U`W`W`g`g`U`X`X]h`c`b`U`a`U`h`f`U`Z`f`c`a` `h`Y`i` BGK ``]V`f`U`f`m`H`Y`i` BGK `@]V`f`U`f`m`k`Y`V`g]h`Y`]g`U`W`W`g`g`Y`X`U`h`\\`h`d`.##`k`k`""]V`f`U`f`m`i`b`g`k`"Y`X`i`"U`i`"M`c`i` `k` ]``U`g`c`V`Y`b`Y`Z`h`Z`f`c`a` `V`Y`W`e`a` ]b[ `Z`J`a` ]]U`f`k` ]h` ;`cc[ `Y`G`W`X`c`U`f`

f`h`h`d`.##`g`W`X`c`U`f`[`cc[ `Y`W`e`a`E`U`g`U`\_`Y`m`i`g`Y`U`f`W`X`Y`b[ ]b`Y`Z`c`f`U`W`X`Y`a` ]W`d`i`V`]W`h`c`b`g`U`b`X`f`Y`d`c`f`g`"M`c`i` `W`U`b`g`Y`h`

i d'ħY'dfYZfYbWg'hc"']b\_'hc'ħY'I B GK '@VfUfmYj Yb'k \Yb'mci 'UfY'bc'cb'WJa di g"; c'hc"; cc[ 'Y  
GWXc'Uf2'gYH]b[ g2''VfUfm']b\_gž'UbX'YbHf'f' b]] Yfg]micZBYk 'Gci ħ'K U'Yg'']b'ħY'Vcl 'Zcf"@]VfUfm'.

## F YWca a YbXYX'F Ygci fWg

Mci 'Wb'g][ b'i d'Zcf'UUV'Y'cZ7'cbH'bhg'fHC 7'ē'5'Yftg'Zca 'ħY'\ca YdU[ Yg'cZfY'Yj Ubh'ēi fbU'gž'hc'fYW]] Y  
Ub'Ya U]'k \YbYj Yf'bYk 'Ufh]WYg'UfY'di V'g\YX']b'ħU'ħēi fbU'">ci fbU'k YVg]H'g'k ]''cZYb'Wlffm  
]bZc'fa U]cb'cb'ħY'a cghj ]Yk YX'UbX'a cghW]H'X'Ufh]WYg/ħY'gY'UfY''\_Y'mhc'VY']bH'fYgh]b[ 'UbX'cZYb  
]bZi Ybh]U''WcbH]Vi h]cbg"; cc[ 'Y'GWXc'Uf'k ]''U'gc'dc]bhmi 'hc'Ufh]WYg'ħU'ħU'Uj Y'W]H'X'U'dUfh]W'Uf'Ufh]WY  
UbX'\YbW'k ]''VY'fY'UH'X'hc'ħY'hc]W

@]b\_g'hc'UXX]h]cbU'fYgci fWgžj ]XYcg'UbX'ħY' hg'k ]''VY'X]gW ggYX']b'WUgg"

## 7ci fgY'9j U'i U]cb'UbX'8Yj Y'cda Ybh

Gh XYbhYj U'i U]j Y'ZYXVUW\_]g[ UħYfYX'dYf]cX]W]''mi g]b[ ž'Ua cb[ 'cħYf'a YUbgž  
I B GK f]a m]l dYf]YbW' dfcW'gg" ěZc'fa U'ZYXVUW\_]UbX'WUgg![ YbYfUH'X'ZYXVUW\_]UfY'U'gc']a dcfU'bh'  
Gh XYbhZYXVUW\_]g'ħU\_Yb'gYf]ci g'nž'UbX'Wcb]bi U'ja dfcj Ya Ybhg'UfY'a UXY'hc'ħY'Wēi fgY'VUgYX']b'dUfh  
cb'gi W'ZYXVUW\_]G][ b]Z]WbhW]Ub[ Yg'hc'ħY'Wēi fgY'k ]''VY'Wca a i b]W]H'X'hc'gi VgYei YbhWē'c'ffg'cZ  
gh XYbhg'ħU\_]b[ 'ħY'Wēi fgY'" ě'fYgdcbgY'hc'gh XYbhZYXVUW\_]Zca 'ħY''Ugh]ja Y'ħ]g'Wēi fgY'k Ug'ħUi [ \hž  
k Y'\Uj Y'a cX]Z]YX'gYa ]bUf'Wcb]H'bhUbX'g]fi W'ħi fY"

Gi Va ]gg]cb`cZ5ggYgga YbhHUg\_g

Gi Va ]gg]cb`cZ5ggYgga YbhHUg\_g

Hi fb]hb`Gi Va ]gg]cb

zmc i`YbWci bhYf`U`dfcV`Ya`k` \Yb`U`H`Ya` dh]b[ `hc`gi Va ]hmc i`f`Ugg][ ba YbhHfci [ \`Hi fb]hbzd`YUgY  
H`Y`d`l`cb`Y`9I`H`f`b`U`Gi` ddcfhcb`-` ,` )` " ` " ` " ` %cf`Ya` U]`H`Ya` `cb`YI`H`f`b`U`H`f`gi` ddcfh4` i` bgk` "YXi` "Ui` " `Gi` ddcfh  
`l`ci` fg`UfY` ,` .` \$\$Ua` -`-%\$.` \$\$da` `cb`k` YY`\_`XUmg`U`bX`-` .` \$\$Ua` -` )` .` \$\$da` `cb`k` YY`\_`YbXg`f`l` \*)` `XUmg`U`m`Y`U`f`l`" zmc i  
UfY`i` bUV`Y`hc`gi Va ]hmc i`f`Ugg][ ba YbhXi`Y`hc`U`ZU`i`h`k` ]H`Hi`fb]hb`mc i`a` UmUdd`m`Zc`f`Ub`YI`H`f`bg]cbz`Vi` hmc i  
a`i` ghf`Y`H]b`mc i`f`h]W`Y`h`bi`a` VYf`Z`ca` `9I`H`f`b`U`Gi` ddcfhf`U`cb[ `k` ]H`U`b`m`c`H`Y`f`f`Y`j` UbhXcW`a` YbHg`L`hc  
]bW`i` XY`Ug`Y`j` ]XYbW`hc`gi` ddcfhmc i`f`YI`H`f`bg]cb`Udd`]W`h]cb" zmc i`Ya`U]`9I`H`f`b`U`Gi` ddcfhmc i`k` ]`  
Ui`hc`a` Uh]W`U`m`f`Y`W`]j` Y`U`h]W`Y`h`bi`a` VYf`z`Vi`h]Zmc i`H`Y`d`l`cb`Y`mc i`k` ]`b`YYX`hc`gd`Y`W`Z]W`U`m`Ug`\_`Zc`f`cb`Y`"  
Hi`fb]hb`U`gc`d`fcj` ]XYg`i` dXUH`g`cb`H`Y`f`g`mg`h`Ya` `gh`U`h`g`cb`Hk` ]H`Y`f`"

; YbYfU`m`z`UggYgga YbhHUg\_g`a`i` ghVY`gi Va ]H`Y`X`Y`Y`W`f`cb]W`U`m`j` ]U`Y`]H`Y`f`Hi`fb]hb`cf`U`A` ccX`Y`  
Ugg][ ba Ybh`H`b` ]bg`H`b`W`g`k` \Yf`Y`H`L`g` ]g`b`ch`id`cgg]V`Y`Z`]h`k` ]`V`Y`g`H`Y`X`cb`mc i`f`W`ci` fgY`g`A` ccX`Y`g`]H`Y`k` ]H`  
U`H`f`b`U`h]j` Y`gi Va ]gg]cb`XY`H]`g"

: cf`]b`Zc`fa` Uh]cb`cb` \ck`hc`gi Va ]hUgg][ ba Ybhg`cb`]bY`j` ]U`A` ccX`Y` .` \`h`td`g` .`#`gh` XYb`h`i` bgk` "YXi` "Ui` #ack`!  
gi Va ]hUgg][ ba Ybh`a` ccX`Y`



5 WUXYa ]W<c bYghmiUbX`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`WUb`hU`Y`a Ubm  
Zcfa gž`Zca `XY`]VYfUh`W`YU]b[ `h`UW]XYbhU`miW`dm]b[ `Zca `U`gci fW`k`h`ci hUW\_bck`YX[ Ya Ybh`

- i bXYfgHUbX'mci f'f][ \hg'UbX'fYgdcbg]V]hYg'Ug'U'gh XYbhUhl BGK
- VY'Uk UfY'cZd'U[ ]Uf]ga ž'Wcdmf][ \hžI BGK Gh XYbh7cXY'cZ7cbXi WihUbX'5WWdhUV'Y'I gY'cZ I BGK i=7H'F Ygci fW'g'Dc`]m

5 WXYa ]WbZcfa Uhcb`

: cfYggYbhU`ghi XYbh]bZcfa Uhcb`fY`Uh]b[ `rc.