$\#(\ \&1\ \&1\ \&4\ \#\&35\ ^*6\ 7\ \%321\ ^*\ 4\ ^\#0\$!\ (\ "\ 1"\ '\ \$8\ ,\ -\ .\ /8\ ^*9\ ,\ \ldots\ ;8\ ^*.\ -<=.\ ,>$

 $!"\#\$\%\&"()^*+^*, -./*\#0\$!("1"'\&!21*200"!\&2)\&"3^*"4^*)(5^*\#(\$18\#\#\&350))$

! "#\$ %&' ()\$ #*+,-.#(\$ &" #\$ #*+#./#O1#%\$ -2\$ /O(/3/(' 4,%\$ /O\$ +-%&&.#4&5#O&\$ UXX]VMjcb fYVkj Yfm' A cfY gdYVNUW mž h Y fYgYUFW YI Ua]bYX h Y]f #*+#./#O1#%\$-2\$%&.#%%6\$&"#/.\$.#1-3#.)\$14+/&4,6\$4%\$7#,,\$4%\$&"#/.\$+#.%-O4,\$ 3/#7%\$ -0\$ 4((/1&/-0\$ 40(\$.#1-3#.)8\$ 9*/%&/0:\$,/&#.4&' .#\$ %' :: #%&%\$ &'' 4&\$]bX]j]Xi U`g`k]h\`UXX]Wb]cb`fYei]fY`U`gi VghUbh]U`ei U`]hm cZ`fYWbj Yfm 14+/84,\$&-\$-3#.1-5#\$%&.#%%\$40(\$1"4,,#0:#%\$/0\$4,,\$%&4:#%\$-2\$.#1-3#.)&\$! "#\$.#%#4.1"\$4(-+&#(\$4\$14%#\$%&'()\$(#%/:0\$40(\$/0&#.3/#7#(\$#/:"&\$+4.&/1/+40&%\$ -O\$ &" #/.\$ #*+#./#O1#%\$ -2\$ +-%&&.#4&5#O&\$ 4((/1&/-O\$.#1-3#.)&\$;O&#.3/#7\$ fYqdcbqYq'k YfY'UbU'mmYX'h\fci [\'WhY[cf]n]b['WtXYq'UbX'h\Ya Yq'UbX' &"#0%'<5/&&/O:&"#%#2-.\$#*&#.04,\$4'(/&8\$=#%',&%%"-7#(&"4&&"#\$.#1-3#.)\$ #*+#./#01#\$/0\$+-%&&.#4&5#0&\$4((/1&/-0\$.#1-3#.)\$/01,'(#(\$(#4,/0:\$7/&"\$ %&.#%%\$('./0:\$.#/0&#:.4&/-0\$&-\$&''#\$54/0%&.#45\$#03/.-05#0&&\$.#<'/,(/0:\$ fY`Uhjcbg\]dgžUbX`fYhifb]b[`hc`XU]`mZibVhjcb]b[`f[Yhhjb[`U`^cVžYUfb]b[a cbYnžZI `Ù``]b[fYgdcbg]V]`]h]YgŁ"FYWej YfmWebbYVM]cbgzgcVJU gi ddcfhži 40(\$.#1-3#.)>%'++-.&/3#\$41&/3/&/#%\$7#.#\$/5+-.&40&\$241&-.%\$/0\$%' %&4/0/0:\$.#1-3#.)&?((/1&/-0\$74%\$1-0%/(#.#(\$4%\$4\$,/2#%&),#\$&"4&\$+.-3/(#%+-.4.)\$.#,/#2\$40(\$"/0(#.%\$<'/,(/0:\$5#40/0:2',\$.#,4&/-0%"/+%\$7"/,#\$.#1-3#.)\$74% XYd]VM/X`Ug`Ub`cb[c]b[`dfcWgg`fYei]f]b[`gi ddcfh'UbX`ÙbX]b[`di fdcgY` /0\$<#/0:\$/0\$.#1-3#.)8\$

! "#\$%&' ()\$.#1-3#.)6\$4((/1&/-O6\$.#1-3#.)\$14+/&4,6\$+-%&&.#4&5#O&6\$\$%&.#%%

@-..#%+-O(#01#\$1-01#.0/0:&"/%\$4.&/1,#\$140\$<#\$4((.#%%#(&-\$! "#.#%#\$@&@4%&/,,-6\$

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UXX]VMjcb" GhfYgg]g cbY cZh Y a U cf ZM/cfg]b U dYfgcb g UV]]mihc

i b]ei Y";]j Yb h]gz]h]gz]a dcfHJbh hc Wabg]XYf bch 1 gh h Y dYfgcbBg #*+#./#01#%<<' &&&'' #/.\$+#.%-04,\$3/#7%\$-0\$4((/1&/-0\$40(\$.#1-3#.)&!''/%\$ %&' ()\$+.#%' 5#(\$&'' 4&\$4\$+#.%-0\$/0\$.#1-3#.)\$/%\$/0\$&''#\$+.-1#%%\$-2\$1''40:#6\$

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-/; 3540<

H\]g fYgYUFVX i h]`]nYX di fdcg]j Y gUa d`]b[`hc`VYgh i bXYfgHUbX 40 (\$ #*+,-.#\$ &''#\$ #*+#./#01#%\$ -2\$ #/: '' &\$ +4. &/1/+40&%\$ E-O#\$ 2#54,#\$ 40 (\$ %#3#0\$ 54,#0\$/0\$+-%&&.#4&5#0&\$4 ((/1&/-O\$.#1-3#.)&\$! ''#\$)-' 0: #%&\$ 74%\$ RS\$)#4.%\$-, (\$40 (\$&''#\$-, (#%&\$74%\$TU\$)#4.%\$-, (&! ''#\$)-' 0: #%&\$+4.&/1/+40&\$ 74%\$4 (5/&&# (\$&-\$&.#4&5#0&\$4&\$V\$)#4.%\$-, (\$40 (\$&''#\$-, (#%&\$74%\$4 (5/&&# (\$ hc`hfYUha Ybh'Uh (- 'nYUfg'c`X''H\Y'Uj YfU[Y'U[Y'K Ug'&, 'nYUfg'c`X''5`` +)'>)#\$

6YZcfYXUHU[Uh\Yf]b[žUddfcjU`kUgUWe'i]fYXZfca h\Yib]jYfg]hm 9h\]Wg7caa]HhYY"H\YfYgYUfW\Yfg]XYbh]ÙYXh\YdUfh]WjdUbhgUWdfX]b[`
$$\label{eq:2.1} \begin{split} & Zfca `h Y`Ùfgh`Yj Y`cZVtbhYbhUbU'ng]gcb'ghYggZ`fYVtj YfmVld]hU`Z'UbX' dYfgcbU'j]Yk gcb'UXX]Vtf]cb'UbX'fYVtj Yfm'H\Ya Yg'k YfY']XYbh]ÙYX'Zcf' Yj YfmdUfh]VljdUbhUWtfX]b[`hc'fYgYUfVk'ei Ygh]cb''5 Vtfcgg'UbU'ng]g'k Ug' 1-0('1&#($&-$/(#0&/2)$&''#$#5#.:/0:$&''#5#%&!''#$.#%#4.1''#.%$%#.3#($4%$ h\YVtZYfg'k \]Y'Ub YI hYfbU'Ui X]hcfžk \c`\UgYI dYf]YbW']b'ei U']HUh]j Y'.#%#4.1''$ 40($''-,(%$ 4$ 54%&#.U%$(#:.##$/0$ +%)1''-,-:)&:.#3/#7#($&''#$ &''#5#%&-$#0%'.#$1-0%/%�&&#%',&%&&#('1#$+-%%/<,#$</4%-2$.#%#4.1''#.%$$ UbX'a U]bHJ]b'cV'Vtfg] hM'H\Ya Yg'k YfY'ÙbU']nYX'h\fci [\'VtdbyYbgi g' 45-0:$&''#$1-(#.%$40($&''#$#*&#.04,$4' (/&-.8$$

%7-@A! -

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! "#\$.#%',&%\$/O1,' (#\$#5#.:/O:\$&"#5#%\$-O\$\$Q\$9*+#./#O1#%\$-2\$A&.#%%\$ /O\$ B-%&&.#4&5#O&\$?((/1&/-O\$ =#1-3#.)6\$ XQ\$ =#1-3#.)\$ @4+/&4,6\$ 4O(\$ RQ\$ B#.%-O4,\$C/#7%\$-O\$?((/1&/-O\$ 4O(\$ =#1-3#.)\$ E%##\$ J/:'.#\$ \$Q8\$!"#\$ %' 11##(/O:\$%#1&/-O\$(#%1./<#%\$#41"\$&"#5#%\$4O(\$+.#%#O&%\$&"#\$O4..4&/3#%\$ -2\$&"#\$+4.&/1/+4O&%8

-.)#,,\$40\$+',..)#/.; #0.\$?114&.4' O\$%#&'(#)*

! "#\$%#&' (#%)\$#*+#%,#-&#

%#E>4514O<\$)#5/.4'O, ''43,B\$L/3#O\$&''4&\$4((/1&/-O\$''4(\$4\$O#:4&/3#\$/5+41&\$-O\$.#,4&/-O\$''/+%6\$<#/0:\$/O\$+-%&&.#4&5#O&\$4((/1&/-O\$.#1-3#.)\$5#40&\$.#<'/(O:\$.#,4&/-O\$''/+%8\$!''#.#\$7#.#\$1''4,,#O:#%\$4O(\$%&.#%%\$/03-,3#(\$/0\$.##%&4<,/%''/O:\$&''#\$&.'%&\$4O(\$1-00#1&/-O\$*7/&''/O\$4O(\$45-0:\$245/,)\$5#5<#.%\$7#.#\$ 40\$/5+#(/5#O&\$&-\$&.)/O:\$&-\$<'/,(\$''#4,&'')\$.#,4&/-O%''/+%8\$PO#\$.#1-3#.##\$%4/(6\$

;\$74%\$42.4/(\$-2\$5)\$(4':"&#.\$<#14'%#\$5)\$(4':"&#.\$(/(OD&\$7#,1-5#\$ 5#\$)#&&&A''#\$(/(OD&\$740&\$40)-0#&=\$I0-7\$<'&&''#D%\$##/0:\$4\$%''./OI[40(\$&''#\$%''./OI\$&-,(\$''#.\$#0-':''\$/%\$#0-':''&\)\$(4':"&#.\$740&#(\$&-\$ 1-0&/0'#\$,/3/0:\$7/&''\$5)\$+4.#0&%\$/0%(\$-2\$1-5/0:\$''-5#\$7/&''\$5#8\$!''4&\$74%\$&''#\$%&.#%%8

9bgi f]b[`UXYei UhY`ÙbUbV]U`fYgci fWg`k Ug`cbY`cZ'h`Y`a cgh`gffYggZ` #*+#./#01#%1-5/0: 2.-5 4.485#0 1.4.57 1.5

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%4)/0:6\$

F#14' %#\$' 0,/I#\$5)\$-&"#.\$1-,,#4: '#%\$7"#0\$&"#)\$:-\$<411\$&-\$&"#\$ -' &%/(#[&-\$.#4,/&)6\$&"#)\$#01-' 0&#.\$%&.#%%8\$! -\$5404:#\$&"#\$%&.#%%6\$ &"#)\$:-\$<411\$&-\$(.':%8\$;\$7-',(\$0#3#.\$740&&_[;\$"4&#(\$(.':%\$ 4,.#4()&\$\)\$%&.#0:&"\$74%;\$.#4,,)\$54(#\$/&\$4\$+-/0&&&-\$%' 11##(&\$\$

-' &4/5\$)#&' (#)*\$&/34./5B\$!"/%\$.#2#.%\$&-\$.#%-'.1#%\$-' &%/(#\$&"#\$ %#,2\$%'1"\$4%\$2./#O(%\$2#,,-7\$.#1-3#.##%6\$4O(\$245/,)\$5#5<#.%8\$\$

Recovery connections. ! "/%/01,' (#(\$.#1#/3/0:\$%' ++-.&2.-5\$ h\Y`hfYUha Ybh ZUW]hmži jc`i bhYYf]b[`]b`fYWzi Yfm UWnji]h]Yož' ^c]b]b[` %' ++-. &\$: .-' +%6\$54/0&4/0/0: \$. #,4&/-0%''/+%\$7/&''\$. #1-3#.)\$+##. %\$40 (\$&''#\$.#1-3#.)\$1-55'0/&)6\$'43/0:\$%#0/-.\$+##.\$\$70\$#1-3#.)6\$-,#\$5-(#,/0:\$7/&"\$ -&"#.\$.#1-3#./0:\$+#-+,#6\$40(\$:/3/0:\$<411\$&-\$&"#\$.#1-3#.)\$1-55'0/&)8\$?11-. (/O: \$&-\$-O#\$+4. &/1/+40&6\$G;\$: '#%%\$/&\$7-', (\$<#\$&-\$#01-'.4: #\$+#-+,#8\$;\$2##,\$&"4&\$/&\$/%\$%-5#&"/0:\$&"4&\$;\$140\$:/3#8\$;\$:'#%%\$5)\$</::#%&\$4%%#&\$/%\$;\$140\$:/3#\$"-+#\$&-\$-&"#.%H\$40(\$G;D3#\$4,74)%\$'%#(\$5)\$.#,4&/-0%"/+%\$/0\$ 1"'.1"\$40(\$/0\$.#1-3#.)\$%-6\$/&0%.#4,,)\$4<-' &\$" 43/0:\$%' ++-.&8H\$K-7#3#.6\$ 1-00#1&/0:\$7/&''\$+##.%\$4,%-\$,#(\$&-\$1''4,,#0:#%\$A&4)/0:\$1-00#1&#(\$7/&''\$ h\Y`f][\hZf]YbXg`k\c`Wb`dcg]hjjY`m]bÚiYbW`h\Y`dYfqcb`]b`fYWcjYfm fYei]fYXY cfh'A cfY qcž\Uj]b[hc qhUmWabbYWaYX k]h\Zf]YbXq k \c k YfY ghi```UMhij Y`mi gib [`Xfi [g k Ug X] W/ h'' Í = `\Uj Y Zf]YbXg k \cži d` &-\$&''/%\$ (4)65: -\$&-\$14%/O-%\$40(\$&''#.#\$4.#\$/0%&401#%\$7''#0\$%-5#\$-2\$)-'.\$ 2./#O(%\$/O3/&#\$)-'8\$F'&\$%/O1#\$)-'\$IO-7\$)-'D.#\$4\$%+#1/4,\$14%#6\$)-'\$&.)\$&-\$ 43-/(8H\$\$

+#),'O/5\$F4#C,\$'O\$?114&.4'O\$4O\$+',..)#/.; #O.\$?114&.4'O\$ %#&'(#)*

?114&.4' 0\$C/, \$(4#C#1\$/, \$/\$54D#, .*5#B\$J-.\$5-%&\$.#%+-0(#0&%%\$(.':\$' %#\$74%\$4,.#4()\$+4.&\$-2\$&''#/.\$(4/,)\$.-' &/0#\$40(\$%-\$%&-++/0:\$/&\$14' %#(\$40*/#&)&\$?11-.(/0:\$&-\$-0#\$.#1-3#.##6\$G?((/1&/-0\$5#40%\$)-' 2##,\$i bYUgmUbXinci Xcb&2YY V&bÙXYbh]Znci UfYbchi g]b[h.Ygi VgHUbW''''''';\$1-', (\$0-&\$%'.3/3#\$7/&''-' &\$%''4<' \$#3#0\$2-.\$4\$5/0' &#\$&'' 4&\$\$#8#\$

?114&.4'O\$ "4O1#),\$; #/O4O<D>5\$)#5/.4'O, "43B\$ F#14'%#\$ UXX]VMjcbU YVMgYachjcbU UbX Vd[b]hjjYZ bVMjcb]b[z]hVUb]adU]fU +#.%-OD%\$4</,/&)&-\$#%&4<,/%"\$:--(\$#,4&/-O%"/+%8\$\ -%&\$-2&"#\$+4.&/1/+40&%0\$ /0&#.41&/-O%\$7/&"\$-&"#.\$+#-+,#\$(/(\$O-&\$,#4(\$&-\$:#O'/O#\$.#,4&/-O%"/+%\$ 40(\$7#.#\$+'.#,)\$&.40%41&/-O4,&\$PO#\$-2\$&"#5\$%&4&#(6\$G;\$O#3#.\$&"-':"&\$

! "#\$%&&' () (* +#, * * +! ! %' - SST

 ! " #**\$%**#&' (#%

 $\begin{aligned} & dYcd`Yz`ÙbUbVVgz`UbX`dfcXi VMj j]m'iH\YgY`UfY`]b``]bY`k]h`hY`gh`XmcZ' K \ \ hYf f&$$(Łh`Uh`]XYbhjÙYX`XU]`mZ bVMjcb]b[``UMj j]hjYg`]_Y`XYU`]b[`'7/&''$2./#0(%.0/0:$5-0#)&40($%+#0(/0:$&/5#$7/&''$245/,)$4%$+4.&-2:-/0:<411&-$0-.54,$41&/3/&/#%&?,&''-':''$&''#$41&/3/&/#%&##5$&-$<#$ 0#' & 4,$40($#3#0$+-%/&/3#6&''#$#*+#./#01#-2/0/&/4&/0:$40($#0:4:/0:$/0$ h`YgY`UMj j]hjYg`]g`Vzbg]XYfYX`hc`VY`ghfYggZ `''K \Uh`k Ug`X] YfYbh`k Ug`''-7$+#-+,#$/0$.#1-3#.)$(#4,&$7/&''$%&.#%%$40($+.#%%'.#%$1-5+4.#($&-$ 7''#0$&''#)$7#.#$41&/3#,)$' %/0:$%' <%&401#%8$$

! "#\$ #%', &%%' :: #%&&" 4&-3#.1-5/0: \$&.#%%6\$(#4,/0: \$7/&"\$ O#*+#1&#(\$
,/2#\$#3#0&%\$40 (\$1" 40: #%6\$241/0: \$1" 4,,#0: #%\$/O\$.#<' /, (/0: \$.#,4&/-O%" /+%6\$
UbX:XYU]b[k]h. `UbUbV}U UbX'cV'VF]gYg'UFY']bghfi a YbHU']b'Vi]`X]b['
ghfYb[h.']b fYVdj Yfm'GhfYggZi `YI dYf]YbVVg Xc bch 1 gh]bj c`j Y i g]b[
gi VghUbWg]b dcghffYUha YbhfYVdj YfmVi hU'gc XYU']b[k]h. h\YX] YfYbh
4%+#1&%\$-2\$,/2#&-\$: #&\$<411 &-\$.#: ',4.\$2' O1&/-0/0: &\$! "#\$%&.#%2',\$#3#0&%\$4&\$
&"'%%&4: #\$-2\$.#1-3#.)\$4.#\$+#.1#/3#(\$4%\$1" 4,,#0: #%\$40 (\$-++-.&' 0/&/#%2-.\$
[fck h\"< ck Yj YfzXYj Y'cd]b['h.]g'a]bXgYhfYei]fYg'h]a YzYI dYf]YbVVz
UbX'Y cfhžUbX']bj c`j Ygghfi [[`Yg']b YUf`mfYVdj Yfm'</pre>

 $\begin{aligned} & H \setminus \hat{U}fgh\hat{U}j \ Y \ mY U fgcZfYV \ ty \ Yfm U DhY \ fh Y U ha \ Ybh U fY \ JXY bh \ UY \ hc \ YY \\ & " \# \$5 - \% \& \% \& . \# \% 2' \ , \& / 5 \# \$ 4 \% / \& \% \& . 40\% / \& - 0 \& . - 5 \% 0 \& \# 0 \% / 3 \# \%' + + - . \& 2. - 5 \& . \# 4 \& 5 \# 0 \& \$ 40 \ (\$ - 0 \& . - 5 \& . \# 4 \& 5 \# 0 \& \$ 40 \ (\$ - 0 \& . - 5 \& . \# 4 \& 5 \# 0 \& \$ 40 \ (\$ - 0 \& . - 5 \& . \# 4 \& 5 \# 0 \& \$ 40 \ (\$ - 0 \& . - 5 \& . \# 4 \& 5 \# 0 \& \$ 40 \ (\$ - 0 \& . - 5 \& . \# 4 \& 5 \# 0 \& \$ 40 \ (\$ - 0 \& . - 5 \& . \# 4 \& 5 \# 0 \& \$ 40 \ (\$ - 0 \& . - 5 \& . \# 4 \& 5 \# 0 \& \$ 40 \ (\$ - 0 \& . - 5 & . \# 4 \& 5 \# 0 \& \$ 40 \ (\$ - 0 \& . - 5 & . \# 4 \& 5 \# 0 \& \$ 40 \ (\$ - 0 \& - 5 & . \# 4 \& 5 \# 0 \& \$ 40 \ (\$ - 0 \& - 5 & . \# 4 \& 5 \# 0 \& \$ 40 \ (\$ - 0 \& - 5 & . \# 4 \& 5 \# 0 \& \$ 40 \ (\$ - 0 \& - 5 & . \# 4 \& 5 \# 0 \& \$ 40 \ (\$ - 0 \& - 5 & . \# 4 \& 5 \# 0 \& \$ 40 \ (\$ - 0 \& - 5 & . \# 4 \& 5 \# 0 \& \$ 40 \ (\$ - 0 & - 5 & . \# 4 \& 5 \# 0 \& \$ 40 \ (\$ - 1 & - 0 & - 4 & . \# \% \ - 0 & - 5 & . \# 4 \& 5 \# 0 \& \$ 40 \ (\$ - 1 & - 3 & .) \$ 0 & + & . \# (\$ - 1 & - 3 & .) \$ 0 & + & . \# (\$ - 1 & - 3 & .) \$ 0 & + & . \# (\$ - 1 & - 3 & .) \$ 0 & + & . \# (\$ - 1 & - 3 & .) \$ 0 & + & . \# (\$ - 1 & - 3 & .) \$ 0 & + & . \# (\$ - 1 & - 3 & .) \$ 0 & + & . \# (\$ - 1 & - 3 & .) \$ 0 & + & . \# (\$ - 1 & - 3 & .) \$ 0 & + & . \# (\$ - 1 & - 3 & .) \$ 0 & + & . \# (\$ - 1 & - 3 & .) \$ 0 & + & . \# (\$ - 1 & - 3 & .) \$ 0 & + & . \# (\$ - 1 & - 3 & .) \$ 0 & + & . \# (\$ - 1 & - 3 & .) \$ 0 & + & . \# (\$ - 1 & - 3 & .) \$ 0 & + & . \# (\$ - 1 & - 3 & .) \$ 0 & + & . \# (\$ - 1 & - 3 & .) $ EO 4' & (\# & 1 & - 3 & .) $ EO 4' & (\# & 1 & - 3 & .) $ EO 4' & (\# & 1 & - 3 & .) $ EO 4' & . \# (\$ & - 3 & - 3 & .) $ EO 4' & . \# (\$ & - 3 & - 3 & .) $ EO 4' & . \# (\$ & - 3 & - 3 & .) $ EO 4' & . \# (\$ & - 3 & - 3 & .) $ EO 4' & . \# (\$ & - 3 & - 3 & .) $ EO 4' & . \# (\$ & - 3 & - 3 & .) $ EO 4' & . \# (\$ & - 3 & - 3 & .) $ EO 4' & . \# (\$ & - 3 & .) $ EO 4' & . \# (\$ & - 3 & - 3 & .) $ EO 4' & . \# (\$ & - 3 & .) $ EO 4' & . \# (\$ & - 3 & .) $ EO 4' & . \# (\$ & - 3 & .) $ EO 4' & . \# (\$ & - 3 & .) $ EO 4' & . \# (\$ & - 3 & .) $ EO 4' & . \# (\$ & -$

?%\$ 5#0&/-O# (\$/0\$ &" #\$ #4.,/#.\$%#1&/-O%\$ -2\$ &" #\$.#%#4.1" 6\$.#1-3#.)\$ 14+/&4,\$/01.#4%#%\$ -3#.\$&/5#\$/0\$ &.#4&5#0&\$40 (\$&".-': "\$&" #\$+.-1#%%\$ -2\$ fYVdj YfmfA Uk gcb YhU "ž&\$%} L"H\YfYgdcbXYbhg]b h\Yghi Xm\UX VYYb /0\$.#1-3#.)\$2-.\$4&\$,#4%&\$%#3#0\$)#4.%6\$ 7 "/1" \$5#40&\$&" #)\$ " 4 (\$4\$,-0:#.\$ dYf]cX hc UV&i]fY UbX XYj Ycd fYgci fWg Zcf fYVdj Yfm' CbY cZ h\Y` (/%&/01&\$241&-.%&" 4&\$%##5# (\$&-\$" 43#\$1-0&./<' &# (\$&-\$%' %&4/0/0:\$4\$:--(\$.#1-3#.)\$14+/&4,\$74%%-1/-#1-0-5/1\$%&4&' %&! "#\$.#%' ,&%\$54)\$" 43#\$<##0\$ X] YfYbh]Zh\YdUfh]VJdUbhgWa YZfca U`ck gcVJcYVdbca]VdfUh gUbX` \UX a cfY`]a]hUh]cbgUbX VUff]Yfg]bUWVgg]b[a cbYnž cVgžUbX ghUYY` "-5#%&

M' %&\$4%\$,/&#.4&' .#\$'' 4%\$+.#%#0&# (6\$%-1/4,\$1-00#1&/-0%\$40(\$#0:4:/0:\$]b`fYWzj`Yfm\gi ddcfh]j Y`UWfjj]h]Yg`UFY`g][b]ÙWJbh`ZUM/cfg`]b`gi ghU]b]b[` ļ

YI dYf]YbWg Xi f]b[UXX]Wgcbž h\Y dYfgcb]b fYWg YfmUZhYf Ùb]g\]b[hfYUha Ybhighf]j Yg Zcf V][[Yf [cU g" H\YY cfhg hc gi ghU]b fYWg YfmXc 0-&\$#0(\$7"#0\$&.#4&5#0&\$#0(%&\$!"'%&\$&"#\$.#%',&%\$-2\$&"#\$%&'()\$54)\$<#\$ 34,' 4<,#\$ &-\$ (#3#,-+/0:\$1".-0/1>14.#\$ &.#4&5#0&\$ 5-(#,%\$.4&"#.\$&"40\$ 2-,,-7/0: \$40\$41' &#>14.#\$5-(#,8\$Z0(#.%&40(/0: &" #\$.#1-3#.)\$#*+#./#01#\$ 428#.\$4\$+#.%-0\$1-5+,#8#%\$8.#485#08\$4,,-7%\$<#88#.\$/0%/:"&\$-0\$7"48\$54)\$ <#\$ +. -3/(#(\$2-.\$1-0&/0'/&)\$-2\$&"#\$.#1-3#.)\$+.-:.#%%\$40(\$.#1-3#.)\$ 14+/&4,&** #\$+#.%-0\$"4%:4/0#(\$-3#.\$%/5#8\$?0\$/5+-.&40&\$1-0%/(#.4&/-0\$/%\$ &"'4&\$&"#\$.#%+-O(#O&%\$/O\$&"'/%\$%&' ()\$145#\$2.-5\$40\$/O&#O%/3#\$.#%/(#O&/4,\$ &.#4&5#0&\$7/&"\$&7-\$,#3#,%\$-2\$14.#\$E+./54.)\$14.#\$40(\$42&#.14.#0&\$!"#\$ /02-.54&/-0\$54)\$ <#\$34,' 4<,#\$&-\$14%#\$5404:#5#0&\$+.-:.45%\$40(\$ hfYUha YbhidfcZygg]cbU'gik cf_]b[`]b h\Y'UXX]Vhjcb ÙY'X"'7ccfX]bUhjcb 45-0: \$. #1-3#.)>%' ++-. &\$%#.3/1#%\$4.#\$' %' 4,,)\$2.4: 5#0&# (\$40 (\$: 4/0/0: \$ <#&&#.\$' 0 (#.%&40 (/0: \$-2\$'' - 7\$4\$+#.%-0\$/0\$.#1-3#.)\$74,1%&''.-': ''\$%&.#%%6\$ 7"4&\$&)+#\$-2\$.#%-'.1#%\$4.#\$"#,+2',\$40(\$"-7\$"#\$3/#7%\$"/%\$4((/1&/-0\$40(\$.#1-3#.)\$54)\$<#\$4++.#1/4&#(8\$!"#\$"-+#\$40(\$%'11#%%\$&"#\$.#%+-O(#0&%\$ "43#\$#*+#./#01#(\$/0\$&"#\$+.-1#%%\$54)\$<#\$34,'4<,#\$&-\$J/,/+/0-%\$/0\$&#.5%\$ -2\$' O (# . %&4O (/O : \$&'' 4&\$. #1-3# .) \$/%\$+-%%/< ,#\$4O (\$4 ((/1&/-O\$/%\$& . #4&4< ,#8\$

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7/&''\$4((/1&/-O\$/%\$''/:''\$4O(\$#*+#1&4&/-O%\$&-\$54/O&4/O\$.#1-3#.)\$54)\$<#\$
' 0.#4,/%&/18\$</pre>

J - . 54, &. #4&5 #0&\$/%\$-0,) &'' #2-' 0 (4&/-0\$-2\$/0/&/4&/0: \$40 (\$#0: 4: /0: \$/0\$ 4 ((/1&/-0\$.#1-3#.)& A' &&4/0/0: \$.#1-3#.) \$ /0\$ + -&&&.#4&5 #0&\$ + -&#%\$&''.#4&%\$40 (\$+.#%'.#%&''4&\$54) \$#4 (&-\$,4+%#&-%' <&&401#\$' &#\$7''#0&''#.#\$ $]g bchYbci [\gi ddcfh'G]h Uh]cbg gi VX Ug ÙbUbV/U VØ]g]gž fY Uh]cbg\]d$ V&bÚ]VMgžUbXi bYa d`cma YbhUFY VØ]h]WJ UFYUg Zcf UFYV&j Yf]b[dYfgcb $h\Uh fYei]fY YI hYfbU gcV/U gi ddcfh UdUfh Zfca]bX]j]Xi U ghfYb[h\g$ 40 (\$ %1 /, %& =#1-3#.) \$ /% 1-0&/0' -' % 40 (\$ -0: -/0: & ! ''#.#\$ /%\$ 4\$ 0## (\$ $hc V&bgV/jci g`ma U_Y Y cfhg hc Vi]X fYV&j Yfm VUd]hU`z VUd]hU`z VUd]hU`ghfYb[h\g$ $effYb[h\gžUbX a UbU[Y h\YXYÙV/jng]b fYV&j Yfm'; U]b]b['Uk UfYbYgg cZ$ &''#\$+' .+-%#\$-2\$%&4)/0: \$/0\$.#1-3#.)\$/% -0#\$-2\$&''#\$5-%&\$34,' 4<,#\$4%+#1&%\$ $-2$1'' --%/0: $&-$<#$/0$.#1-3#.)$/%$54}$</p>$

A4; 4. /. 4' O, \$' D\$. " #\$-. > 1 *

! "#\$5#&" - (\$-2\$: 4&" #./0: \$(4&4\$/0\$&" /%\$. #%#4.1"\$74%\$ (#+#0 (#0&\$-0\$ h\Y'ei U`]hmcZ]bhYfj]Yk 'fYgdcbgYg" H\Y'XUhU'k Ug U'gc XYdYbXYbh cb' &"#\$" -0#%&) 6\$140 (/ (0#%%6\$40 (\$,#3#,\$-2\$%#,2> (/%1,-%' .#\$-2\$%" #\$.4.&/1/+40&%\$ -0\$&" #/.\$#* +# ./#01#%\$/0\$. #1-3#.)&! "#\$%#0%/&/3/&)\$-2\$&" #\$. #%#4.1"\$&-+/1\$ a Um \Uj Y' U YVbYX'h\Y'dUfhjVgdUbhgDk]``]b[bYgg hc VY'hfi h\Z` UbX' 140 (/(&\$! -\$5/&/: 4&#\$&"/%6\$+4.&/1/+40&\$: '/(#,/0#%\$7#.#\$(/%1' %%#(\$+./-.\$ &-\$&" #\$/0&#.3/#7\$&-\$,#3#,\$#* +#1&4&/-0%\$40 (\$+.-5-&#\$#5-&/-04,\$%42#&)&\$! "#\$5#&" - (\$-2\$/0&#.3/#7/0: \$74%\$0-0>&" .#4�/0: 6\$/02-.54,6\$40 (\$%#&\$ /0\$4\$+./34&#\$.--5\$&-\$#01-'.4: #\$+4.&/1/+40&\$\$&-\$(/%1,-%#\$1-52-.&4<,)&\$ H\Y'fYgYUfVxYfg dfUVb]WX'hYVkb]ei Yg gi VX 'Ug YgHU/`]g\]b[`fUddcfhz fYÚYVbfj Y``]ghYb]b[`UbX i bVbbX]h]cbU'dcg]h] YfY[UfX"'

\-.#-3#.6\$34,/(4&/-0\$-2\$%' %&4/0#(\$.#1-3#.)\$%&4&' %\$-2\$+4.&/1/+40&%\$ 74%\$,/5/&#(\$&-\$"#\$.#1-55#0(4&/-0\$-2\$&"#\$&.#4&5#0&\$+.-3/(#.&J'.&"#.\$ 34,/(4&/-0\$2.-5\$245/,)\$5#5<#.%\$-.\$1,-%#\$.#,4&/3#%\$40(\$2./#0(%\$74%\$ 0-&\$1-0('1&#(&\$?,&"-':"\$&"#\$/0&#.3/#7%\$7#.#\$+#.%-04,\$40(\$/0&/54&#\$

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- G\YYXnž:7"ž/ K \]HYfžA "`f&\$\$-Ł"; i]X]b[`df]bV}d`Yg`UbX`Y`Ya Ybhg` cZfYVt/jYfn1cf]YbHYX`gmgHYa g`cZVVlfY.`K \Uh`Xc`k Y`_bck`Zfca 'H\Y` fYgYUfVX3`X%<+/*71"47"/F-N.1(2"&(5/Yf('Łž&&)!&, *"`
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- K \]hYžK "ž6cmYžA "ž/ @cj Y`UbXž8"f&\$\$(Ł"FYWtj YfmZfca 'UXX]Vtjcb UbX fYVttj YfmZfca 'a YbHJ']``bYgg G\UfYX UbX VtbhfUtjh]b[`Yggcbg'' =b F "FU'd\ / D" 7cff][Ub fPXg'Hž E "7%<"&#/+4' / M"43+./1.4"(()/ I %4(-M"&/ <1(1%4(/ +4' / &"("+&72/ A+&+' 1, M(/ E++& XRR>XTU0& K Utj\]b[hcb 87. 5a Yf]VVb DgmVX c`c[]VU 5ggcVjUh]cb'''