!

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

```
! "#%% '&$()``+(',) -$, -$&(',) -$! +) /0&123¼'5%+-'4¼4506+3,-/$#(2)) -+0$75-+$#34'+8$9:; <=>$, -$?&(.@($A,8$&\chi_0*) - &\chi_0*?&0C$A+4+06+\se5'',1'+$8+'2) \%4$
F+0+$54+\%5')$(0+&'+$'+00&,-$450@&(+$8)\%+'4$F2,(2$F+0+$@50'2+0$54+\%')$\%+'+('$(2&-/+$')$'2,4$,81)0'\&-'$+()434'+8$&\end{ar}+0$F,-'+0$4')08$\psi+&4\)-
!
!"#$%&\dangle \text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tex{
```

P&"&16/"&6>+;"(*\$//+/"\$%, "*\$F' .\$&' .7"O+.6' , /"#6*"F+"6%GO+./' %"' %"(\$>O8/C"<Y\$>/"#6*"F+"6%GO+./' %"\$/"#+**C"? +"#6**"F+"E' **' #6%-"O.' 96%(6\$*"1+\$*&1"\$%, "/\$E+&7"-86, +*6%+/"\$%, "\$, \$O&6' %/"&' "(' 8./+"*+\$.%6%-" +%96.' %>+%&/">\$7"(1\$%-+"' 9+."&1+"&+.>C""

,-%. /"/! \$O123O4-#\$

- HC Z%, +./&\$%, "1' #"[!:"(\$%"F+"8/+, "&' "/' *9+"/0\$&6\$*"0.' F*+>/"\&1+' .+&6(\$**7"\$%, "0.\$(&6(\$**7]"6%" [+' -.\$017"\$%, "' &1+.", $6/60^6$ %+/C"
- LC R86*, "\$"E' 8%, \$&6' %"6%"8/6%-"[!: I"&' "(.+\$&+"/8>>\$.7"/&\$&6/&6(/"E' ."-+' -.\$O16(", \$&\$;"(' %, 8(&"&+..\$6%" \$%\$*7/6/;"(\$*(8*\$&+"\$"*+\$/&"(' /&"O\$&1"\$%, "6%&+.O' *\$&+", \$&\$"#6&1"' O+%6/' 8.(+"/' E&#\$.+"\^G[!: "\$%, "O10""
- JC P(=86.+"\$"/&.' %-"\$(\$, +>6("/)6**/"E' 8%, \$&6' %"G"/O+(6E6(\$**7".+/+\$.(1"G"&' "E6%, "&1+".+/' 8.(+/"7' 8" %++,;"&' "(' **+(&;"\$%\$*7_+"\$%, "6%&+.O.+&", \$&\$;"&' "O.+/+%&".+/8*&/"+EE+(&69+*7"\$%, "(' >>8%6(\$&+" E6%, 6%-/"6%"\$".+O'.&"E' .>\$&C"
- WC R+"\$F*+"&' "(.666(\$**7"+9\$*8\$&+"&1+"(\$0\$F6*666+/"\$%, "*6>66\$86' %/"' E"[!: "\$%\$*7/6/C"

. -51". -6\$2-72#\$

"/#2. 13200\$(+*****D)

<Y\$>/"#6*"F+"\$">6\"' E">8*&60*+"(1' 6(+"\$%, "#.6&&+%"=8+/&6' %/C"P***+(&8.+">\$&+.6\$*"\$%, "\$, , &6' %\$*".+/' 8. (+/" 0.' 96, +, "96\$"R.6-1&/0\$(+"#6**"F+"6%(*8, +, "' %"&1+"+Y\$>/C"D1+"E6%\$*"+Y\$>"#6**"F+"(' >0.+1+%/69+"F8&"#6*"F+" >' .+"1+\$96*7"#+6-1&+, "' %"&1+">\$&+.6\$*"(' 9+.+, "\$E&+."&1+">6, &+.>C"!E"7' 8">6//"&1+">6, &+.>"+Y\$>"E' ."\$%" \$00.' 9+, ".+\$/' %;"&1+"#+6-1&"! E"&1+">6, &+.>"#6**"F+"\$, , +, "&' "&1+"E6%\$*"+Y\$>C"A' ">\$)+680"+Y\$>"6/"' EE+.+, C"

P, , 6&6' %\$*"6%E' .>\$&6' %"\$F' 8&"&1+"+9\$*8\$&6' %"(' >0' %+%&/"(\$%"F+"E' 8%, "' %"R.6-1&/0\$(+f"

! -0! . %: ; <\$6-: %. 24-/2\$"/80. 4%2"0/\$

=. "! : 2#: %3-

 $\begin{array}{l} R.6-1\&/0\$(+"\ ^*+\$.\%\%-"\ >\$\%\$-+>+\%\&"\ /7/\&+>/"\ \backslash gf:]"\ \#6""\ /+.9+"\ \$/"\ \&1+"\ >\$6\%"\ \$9+\%8+"\ 'E"\ ('\ >>8\%(\$\&6'\ \%"\ \backslash 1\&\&0/ljj\#\#\&686(\complement(\$j/7/\&+>/j/+.96(+/j^*+\$.\%\%-\&+\$(16\%-jF.6-1\&/0\$(+j6\%,\ +YCO10]\complement'e^*+\$/+">'\ \%\&'\ ."\&1+"O\$-+"\ '\%"\$".+-8*\$."F\$/6/"E'\ ."('\ 8./+"\%%'\ 8\%(+>+\%\%'\!E"7'\ 8"\$.+"1\$96%-", $EE6(8*&7""'\ --6%-"\%"'\ ."O$//#'\ ., "O.'\ F*+>/;" ('\ %\&\$(\&"\&1+"M'\ >08\&+."\k+*O"U+/)"<>\$6*l"1+*O, +/) \cdot\ 896(\(\(\$(\$;"D+*l"\LVKGaLHGahSa"\))) \cdot\ 896(\(\$(\$(\$)"\LVKGaLHGahSa"\)) \cdot\ 896(\(\$(\$)"\LVKGaLHGahSa"\)$

I'8"#6**"E6%, "&1+"('8./+"\$%, "*\$F"/(1+,8*+"'%"R.6-1&/0\$(+C"

! . %6"/! \$#<#2-4

P&&+%, \$%(+"6/"+YO+(&+, "E' ."*+(&8.+/"\$%, "*\$F"\$//6-%>+%&"&6>+C"O+(' ., 6%-/"' E"*+(&8.+">\$&+.6\$*"' ."*\$F' .\$&' .7" 6%&.' , 8(&6' %/"#6**"%' &"F+"O.' 96, +, "8%*+//"&1+"Z%69+./6&7".+6%/&\$&+/"' %*6%+"*+\$.%6%-C"

P"16-1"*+9+*"' E"/&8, +%&"(''O+.\$&6'%'\$%, "O\$.&6(6O\$&6'%';"%9'*96%-"\$/)6%-"\$%, "\$%/#+.6%-"=8+/&6'%/"6/"+YO+(&+, C":&8, +%&/"\$.+"\$'' "+YO+(&+, "&'"O8%(&8\$*"E'."('8./+">++&6%-/C"")

 $\begin{array}{l} : \&8, +\%\&/">8/\&"('>0"+\&+"\$""+9\$"8\$\&6'\%"('>0'\%+\%\&/"\&'"'F\&\$6\%"(.+, \&\&C"X\$6"8.+"\&'"('>0"+\&+"\$\%"\$\%7"+9\$"8\&6'\%" \\ ('>0'\%+\%\&"\#6\&1'8\&"0+.>6//6'\%"E.'>\&1+"6\%/\&.8(\&'.;"#6"".+/8*\&"6%"$\"bAc"-.\$, +;"#16(1"+=8$*/"$"[.\$, +"e'6\%"m\$*8+"'E"KC" \\ \end{array}$

g\$&+"\$//6-%>+%&/"\$%, j' ."O.' d+(&"#' .)"#6*"F+"O+%\$*6_+, "LKi "O+.", \$7"\6%(*8, 6%-"#++)+%, /]C"<Y(+O&6' %/"#6*" ' %*7"F+"-.\$%&+, "E' .">+, 6(\$*"' ."(' >O\$//6' %\$&+".+\$/' %/C"e*+\$/+"(' %&\$(&"&1+"6%/&.8(&' ."#6&16%"E69+"#' .)6%-", \$7/"6E"O' //6F*+C"N%*7"&1+"(' 8./+"6%/&.8(&' ."(\$%"-.\$%&"+Y(+O&6' %/C"

M' %E*6(&/"#6&1"#' .);"1' *6, \$7/"' ."&.\$9+*"0*\$%/"\$.+"%' &"(' %/6, +.+, "\$%"\$((+0&\$F*+".+\$/' %"&' "\$00*7"E' ."\$", +E+..+, "\$//6-%>+%&"' ."0.' d+(&"+Y&+%/6' %C"

Z%+//"' &1+.#6/+"/&\$&+, "/&8, +%&/"\$.+"+YO+(&+, "&' "(' >0*+&+"\$//6-%>+%&/"6%, +O+%, +%&*76"

:,%! "%. "#4\$

 $!8"6/"+9+.7"/\&8, +\%c/".+/O' \%/6F6'\&7"\&' "F+"$\#\$.+"' E"\&1+"8\%69+./\&7c/"O' *6(6+/"' \%"$(\$, +>6("6%\&+-.&7;"6%(*8, 6%-"' O' *6(6+/"' \%"(1+$&6%-;"0*\$-6\$.6/>;"8%$8&1' .6_+, "8/+"' E"$\"+, 6&' .;">8*&60*+"/8F>6//6' %;"$\%, "$6, 6%-"' &1+./"&' " (1+$&6"e' *6(7"' \%"P(\$, +>6("!\%+-.\&7\"\#+FC896(C(\$j(\$^+\%, \$.j8\), +.-.\$, j6\%E' j.+-8*\$\&6' \%/j\$(\$, +>6(G) \%\&+-.\&7\"\#+FC896(C(\$j(\$^+\%, \$.j8\), +.-.\$, j6\%E' j.+-8*\$\&6' \%/j\$(\$, +>6(G) \%\&+-.\&7\"\#+FC896(C(\$j(\$^+\%, \$.j8\), +.-.\$)$

 e^*+/+"('\%\&\$(\&">+"6E"7'8"1\$9+"$\%7"=8+/&6'\%/C$

```
(?8"4@?1 AB!!
!
D1+"0.+/+%&+, "/(1+, 8*+/;"0' *6(6+/;"0.' (+, 8.+/;"$%, "$//6-%>+%&/"6%"&16/"('8./+"$.+"/8Fd+(&"&' "(1$%-+"6%" &1+"+9+%&"' E"+Y&+%8$&6%-"(6.(8>/&$%(+/C"
```