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

 $!"\#\$\$\%\&"\#" ' () *"+\#, -*" ./"\$0\&12 .\% . -(1\#\%"32* . +(*0"3 .") *4*\% . \$"\#,)"3*03" 5 .) *\%0" ./"2 . ' ".+" ' 2\&"\$* . \$\%*"12 ... 0*" ... +"#) #$3"32*(+"03+#3* -(*0"3 ." .4*+1 . 5 *"6 , . ' \%) -*") */(1(307" 5 **3" - . \#\07"#,)"(5 \$+ .4*"32*(+"3+\#) *"(,"4\#+(.80" 1 ... ,3*930:"!"* ,; .&"1+\#/3(, -"*00\#&07"03 ... +(*07"\#,)"*9*+1(0*0"3 ."1 ... 5 5 8 ,(1\#3*"32*"\%*00 ... ,0"32\#3"1\#, "<*"*\#+, *):" "$

=">,(3*)"?.11*+"@.#12*0"A/.+5*+%&"B?@CCD"E+*5(*+"F(\$%.5#"

 $=GH^{*}\&^{*}\#_{+}0^{*}...^{*}1.\%\%^{*}-(\#3^{*}\#_{+})^{*}1\%8<^{*}0.11^{*}+^{*}1.\#12(,-^{*}9\$^{*}+(^{*},1^{*}7^{*}(,1\%8)(,-^{*}B@CC^{*}F!^{*}\#_{+})^{*}F!!!^{*}$

=GH"1*+3(/(1#3*0"(,")#3#"#, #%&0(07")#3#"03.+&3*%(,-7"C!"/8,)#5*,3#%07"#,)"\$+.-+#5.5(,-")

=IH"&*#+0"./"(,03(383(.,#%"0*+4(1*".,"1.55(33**0"#,))"3#06"/.+1*0"

JKH")(03(,13"-+#)8#3*"#,)"8,)*+-+#)8#3*"1.8+0*0")*4*%.\$*)".+"3#8-23"/#1*L3.L/#1*7".,%(,*7"#,)"2&<+()"

JN"\$**+L+*4(* ' *)"<...67";.8+,#%7"#,)"1.,/*+*,1*"\$#\$*+0" ' +(33*,"

OGH")(00*+3#3(.,0"08*+4(0*)"#0"#"12#(+7"5*32.).%.-(037".+"+*#)*+"

J7GGGH"1.\%*-*"038)*,30"3\#8-23"\#3"/.8+"

1, /2!)) & / 0 + 3(!"1!, &!0#!"

C00.1(#3*"E+./*00.+7"T*,8+*)7"P)81#3(.,#%"Y*#)*+02(\$7"4,)/',*5)6*-&%.,/#%(0"

 $\mathbf{JGJGL}"$

!, 03+813.+7"E0&12.%.-&7"1\$, 7,8,("*1)779&%(0*1)::, ',"

JGJZL"

C00(03#, 3"E+./*00.+7"P)81#3(., #%"Y*#)*+02(\$7"4,)/', *5)6*-&%.,/#%(0"

 $JG \!\!=\! ILJG"$

C00(03#,3"E+./*00.+7"F*\$#+35*,3"./"?.1(.%.-&7"; "2%%2*-&%.,/#%(0"

 $f_{i=1}^{G_{i}}L=I''$

-.\\.\\"5000501172.161-51Tm/TT81Tf[(;)0.2("2)0.2023.47520.2(,)0.22-&\\.,/#\\(0

1\$63&#+%&/0)"

 $e.\,0*\$27"F:"@:7"X\#+\$*+7"M:7"\ [\ "T8//*\&7"?:"AJG=KD:"E\$\#\&(\ ,\ -"3(\,5*"(\ ,"\&\,.\,832"/\,.\,.\,3<\#\\%"A0\,.\,11*+D"-\#\,5*0\$"T2*" \\ 12\#\%*,\ -*"\,./")*4*\%\,.\,\$(\ ,\ -"\,5*\#08+*0"\,./"(\ ,*\,f\,8\#\%(3\&"\#\,,\,)"0\,.\,1(\#\%"\,5\,(\ ,(\,5\,8\,5\,0:"$

@#3#\\&03"E+.-+#5"T#06"_.+1*"R*5<*+7"4,)/',*5)6*-&\\.,/#\\(0" JG=dLJG" ?*,#3.+7"4,)/',*5)6*-&%.,/#%(0" JG=dLJ="" $T*93"Q*4(*'*+7" \setminus 2*\#3.,"["o.8,-]0"^*,*+\#\%(i(,-"32*"Q*-+*00(.,"R.))*\%7"+"',*;9N:\%2"(\%)\&\#"$ JG=d" E+.\$.0#\"Q*4(* ' *+7"E)9/&":*)<*@<<,2(\%.,*O,"2\\$\\&'*\\&*F\\'\\$,/*@392"(\%)&" JG=dLJJ""!, 03(383(., #\"O*4(* ' "W . #+) "A!QWD"@ . 5 5 (33**" R * 5 < *+7" 4 ,)/', *5)6* - &\"., /#\\(0" JG=NLJ=" #18%3&% 0.8,1(\%\"R*5<*+7\"4\,)/',*5)6*-&\%.,/\#\\(0\) JG=NLJ=" ^+#)8#3*" ["E+./*00(.,#%"E.%(1(*0" ["E+.-+#50"@.55(33**"R*5<*+7"4,)/',*5)6*-&%.,/#%0" JG=OLJG" C1#)* 5 (1"^ .4*+,(,-"W.#+)"R*5<*+7"\, "2\$*0/"%&%& '*?&#(%(9(," JG=OLJJ" !, 03(383(., #%"C00*005*, 3"@.55(33**"R*5<*+7"4,)/',*5)6*-&%.,/#%(0" JG=VL=N" $P??C"C00*005*,3"["?3#,)#+)0" \setminus .+6-+.8$"R*5<*+7"=/,')&*>,B"/(7,&(*)<*@392"(%)&"$ JG=V" T*93"Q*4(* ' *+7"Y(,, * 5 #,]0"?.1(#\"?3#3(03(10"AK "P):D7"O"0:)/*e*5/"&2\\#*;9N:\\2"(\)\&#" JG=V" $^+$ #, 3 "Q*4(* ' *+7"G9/3)28* e *; "2\%\2*\ ,#, "/2\\$*?&#(\(\(9(,*<)/*+2\)\, &2, *"&3*G"(\(\$, 7"(\(\(82\)\)")) JG=I" C) 4(0.+&"@.55(33**"R*5<*+7*F,":(\$*;/)<,##%) &#*"&3*@392"(%) &#*; "2%%2*-&%.,/#%0"JG=K"