



! "\$%&&"\$"(\*)+\*(%)+,#-%."#.)#/'/"#''00")\*(, #1+)0#,2+\$3,3'+\*(%)#1"#,+#\$%(00+) "\$#3\$%)%&(4."#"\*#1.#  
135",%66"&)"#1.'+7,"#8 9+,: '3#,2";6+)0(%)#&+00(5"#1.#\$%&&"\$"#\*#1"0#()5"0\*(00"&)"\*0#+.#\$. '0#1"0#  
1"')(<"0#13\$"))("0=#,"0#6+>0#, "0#&%(0#+5+) \$30#@ 9 AB#0%)\*#\$%)C'%) \*30#D#1"0#1(CC(\$.,\*30#\$%)0(13'+7,"0#6%.'#  
0( ) \*3: "'# "CC(\$+&)"#1+)0#, "0#0>0\*<&"0#\$%&&"\$"(+.;#&%)1(+.;#"\*#6%.'#("'#6+\*(#1"0#6%00(7,( \*30#%CC""\*#0#  
6+'#, "#\$%&&"\$"(\*)+\*(%)+,#"\*#,"0#\$E+F)"0#1"#5+,".#&%)1(+,"0#8#G",+#"0\*#6'())\$(6+,"&)"\*#1H#+.;#\$%)\*'+() \*#0#  
,(3"0#D#,2%CC""#"\*#+.;#7+'(<"0#\*+'(C+("0#"\*#)%)#\*+'(C+("0#8#!+6+)13&("##+#".#.)#(&6+\$\*#)3:+\*(C#0.'#, "0#C,.;#  
\$%&&"\$"(+.;#( ) \*#)'+\*(%)+,;8#A.#6,.0#C%'#1"#,+#6+)13&("-#)"#IJIJ=#,"0#";6%'\*+\*(%)0#1"#&+'\$E+)1(0"0#1"0#  
@ 9 A#%)#\*\$E.\*3#1"#K=L#M8#!"#6%'\*\$\$(%)0(0#=#,+).&3'(0+\*(%)#'+6(1"#=#,"#5('+: "#5"\*=#,"0#+#\$%"10#  
\$%&&"\$"(+.;#6,.'(+\*3'+.;#"\*#,"#3:(%)+, (0&"0%)#\*4."#,4."0N.)0#1"0#)% .5"+.;#6E3)%&<)"0#+.;4."0#, "0#  
@ 9 A#1%(5" ) \*#02+\*+4."#")#6'(%'(\*38#!+6%'&%\*(%)#1.#\$%&&"\$"#3,"\$\*(%)4."=#,+1(5"0(C(\$+\*(%)=#,+)\$'3+\*(%)#  
1"#5+,".#'+-%.\*3"#\*#.)"#&(".,."#( ) \*3: '+\*(%)#1+)0#, "0#\$E+F)"0#1"#5+,".#'3:(%)+, "0#"\*#&%)1(+,"0#)%\*+&&)"\*#  
6+'#, "#7+(0#1"#,2+(1"#+.#\$%&&"\$"-#0%)#,"0#7"0%( )0#, "0#6,.0#.' :)"\*0#6%.'#, "0#@ 9 A#8#

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

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!+#\$(7,"#1"#,2%7-"\$\*(C#1"#135",%66"&)"#1.'+7,"#\$(%)0(0\*+)#D#1%.7,"#,#+6+\*#1"0#@ 9 A#1+)0#, "0#";6%'\*+\*(%)0#  
&%)1(+,"0#10(\$#D#IJIJ#6+'#+66%'#D#IJPP#\$(7,"#1"#I#MB#)!+6+0#3\*3+\*#( ) \*#8#!"0#";6%'\*+\*(%)0#1"#7( )0#"\*#  
0"5(\$"0#1"0#@ 9 A#%)#\*,3:<"&)"#\*+.:&)"\*3=#6+00+)\*#1"#IPI=L#&(.,(+ '10#QRS#)"#IJPP#D#ITU#&(.,(+ '10#QRS#  
)#IJIJ#8#!+&V&"#+) )3"#=#,"0#";6%'\*+\*(%)0#1"#7( )0#"\*#1"#0"5(\$"0#\$%&&"\$"(+.;#1"0#@ 9 A#0%)#\*#6+'("0#D#  
,+#E+.00"#=5"\$#.)"#+.:&)"\*+\*(%)#1"#IW=X#M#)"#;,(00"&)"\*#+) ).,"8#Y%.\*"C%(0=#,+6+\*#1"0#@ 9 A#1+)0#, "0#  
";6%'\*+\*(%)0#&%)1(+,"0#1"#7( )0#"\*#1"#0"5(\$"0#\$%&&"\$"(+.;#"0\*#"0\*3"#0\*+(4."#)"#IJIJ#"\*#IJIJ#  
023\*+7,(00+)\*#D#J-ZT#M=#0%(#.#)6".#6,.0#4.2")#IJK#?J-ZI#MB8#[,"#)#5+1"#&V&"#1.#\$/ \*3#1"0#(&6%'\*+\*(%)0#  
+5"\$#.)"#6+'\*#0\*+7,"#1"#P=TZM#)"#IJIJ#8#!"#13C(\$(\*\$%&&"\$"(+.;#%7+,#1"0#@ 9 A#+#\*#( ) \*#.)#)% .5"+.#"\$%'1#  
)#IJIJ#+5"\$#PPT=P#&(.,(+ '10#1"#1%,+, '08#

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!"0#@ 9 A#%)#\*+\*#( ) \*#.)#7%)#(5"+.#1"#1(5"0(C(\$+\*(%)#1"#,."0#";6%'\*+\*(%)0#1"#6.(0#IJPP#R(#,+6+\*#1"0#  
6'1.( \*0#6'(&+("0#1+)0#, "0#";6%'\*+\*(%)0#\*#\*+, "0#1"0#@ 9 A#+#1(&( ) .3=#6+00+)\*#1"#KTM#)"#IJPP#D#UTM#)"#  
IJIJ#=#,"0#@ 9 A#"0\*")#=#&%)#>))"-# '\*<0 136" )1+)\*0#1"0#6'1.( \*0#1"#7+0"8# # !+6+\*#1"0#6'1.( \*0#  
&+).C+\$\*.'30#1"0#@ 9 A#1+)0#, "0#";6%'\*+\*(%)0#1"#&+'

" )#5. "#1"#1%.7,"'#,".'#6+'\*#1"0#";6%'\*+\*(%)0#&%)1(+,"0#1!(\$#IJTP#!"#6'%:'&&"#12+\$\*(%)#1"#S%E+#C(";#

0''5(\$"0#C%.'')(0#6+'#, "0#@ 9 A#')\*''#&+(#IJPU#"\*#&+(#IJIP8#! +#1% .d(<&"#G%)C3'")\$"#&()(0\*3'(", "#1"#,2^ 9 G#  
? 9 GNPIB=#4.(#0'"0\*#\*") . "#")#- .()#IJI=#++\$E+' :3#,"#G%)0"(, #1.#\$%&&"\$"#1"0#0''5(\$"0# 12"; +&()'"#"\*#1"#  
6'%'&% .5%('#,2%63'+\*(%))+, (0+\*(%)#1"#, +#13'%' :+\*(%)=#>#%&6'(0#1235+, . "#,"0#&(", . "'0#6'+\*(4."0#6% . '#C+\$(,\*"'#  
,2. \*(, (0+\*(%)# 1"0# 6'3C3'")\$"08# !"0# @ 9 A# 1%(5'')\*# "'')C% '\$"'# , " . '# \$+6+\$(3# 12%CC'"# 6% . '# +\$\$'%F'"# , " . '#  
6+'\*(\$6+\*(%)#+. #\$\$%&&"\$"#1"0#0''5(\$"0=!!

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, '>2-6'!52!\* )!>#\$>#+(6(!+362\*\*2-6.2\*\*2!\*+(') .!-\$ 0 0 2#-2!!

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!+#1.'3"#1"#,+#63'(%1"#1"#\*'+)0\*(%)# :3)3'+, "#+. #\*('"#1"#,2+\*\$,"#XX8P#+#3\*3#6'%,%):3"#-.04.2+. #P"'#- .(, "#\*  
IJTW#6% . '#,"0#@ 9 A8#G%)C%'&3&")\*#D#,+#13\$(0%)#0. '#,+#&(0"#")#` .5'"#1"#,2+\*\$,"#XX8I=U#, "0#6+>0#135",%6630#  
&'&7'"0#%)\*#C%.'')(#1"0#+66%'0#+)).",0#0. '#,"0#&"0.'"0#6'(0"0#% .#6'35."0#+. #\*('"#1"#,2+\*\$,"#XX8I8^#@% . '#

,2()C'+0\*'. \$\* . '#1"0#0" '5(\$'0#1"#"SE)%,% : ('0#1"#" ,2()C%'&+\*(%)#''#1"0#\$%&&. )(\$+\*(%)0=#,+#&(0"#" )#6,+\$\$'1"#" 0>0\*<&"0#1"#"6+('&"")\*#)#,( :) "#03\$. '(030=#,+#6'%&%\*(%)#1.#135",%66"&')#1"0#\$%&63\*")\$'0#"#\*,2+1%6\*(%)# 12. )#\$+1"#"3: , "&")\*+('"#0%,(1"8##

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**C36(%#)6+\$3!#(%+\$3)\*2!!**

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!+#\$%63'+\*(%)# '3:(%) +, "#>#\$%&6'(0#,2() \*3: '+\*(%)#\$%&&'\$(+,"#"\*#,+#\$%63'+\*(%)#)"#&+\*(("<'1"#"'+)0(\*=6" . \*# C+\$(,(\*"'#,2() \*3: '+\*(%)#1"0#@ 9 A#1+)0#, "#0>0\*<&"#\$%&&"'\$(+,#&% )1(+,#) %\*+&&")\*#)"# . :&")\*+ ,##+(+, "1"0# &+'\$E30-#" )# +&3,(%'+)\*# , ". '# \$%&63\*(5(\*3# ""# "" )# "' )C%'g+)\*# ,+# \$%) )"\$\*(5(\*3# '3:(%) +, "# ""# , "# \$%&&' '\$"# ( ) \*'+ '3:(%) +, 8#[, "#0\*( &6% '\*+ ) \*#1"#"C+5%'(0"#" . ) "#( ) \*3: '+\*(%)# '3:(%) +, "#""#0% . 0N'3:(%) +, "#6, . 0#E+'&%(03"#" \*# 6, . 0#"CC(\$+\$"8#! "0#@ 9 A#% ) \*#7"0%( )#12. )#0% . \*( " )#6% . '#6'%&% . 5%(' #,+#\$%63'+\*(%)#0% . 0N'3:(%) +, "#""# '3:(%) +, "#=# >#\$%&6'(0#,+#6'%&%\*(%)#1"0#" ; 6% '\*+\*(%)0#"#\*,2+&3,(%'+\*(%)#1"#" ,+#\$%) )"\$\*(5(\*3# '3:(%) +, "#6+'1"0#&"0 . ' '0#1"#" C+\$(,(\*+\*(%)#1.##\$%&&" '\$"8#

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**, --2'+\$3'!!**

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@, . 0#1"0#%'(0#4. + '\*0=#2"0\*NDN1('"TX#1"0#WX#@ 9 A=#0% ) \*#&'&7'"0#1"#" ,2^ 9 G8#S"6. (0#IJPP=#0(;#@ 9 A#% ) \*#&")3# D#7(" )# , "#6%"\$"00. 0#12+1E30(% )#""#% ) \*#'"-%( ) \*# ,2^ 9 G8#K#



0''5(\$"08# Q)# "06+\$" # 6%,(\*4. "# +134. +\*# "'0\*"# 5(+,# 6% . '# , "0# @ 9 A# G", +# )3\$"00(\*"# . )# '')C% '\$'&")\*# 1.#  
\*'+(\*"&")\*#063\$(+,#\*#1(CC3''))\$(38#!"0#@ 9 A#%)#\*+70%, . &")\*#7"0%()#1"#&3\$+)(0&"0#6. .0#0%,(1"0#6% . '#C+5'(0"''#  
. )#\*'+)0C''\*#1"#\*"\$E)% ,% : ("#0(: )C(\$+\*(C#1"# , +#6+ '\*#1"0#")\*''6'(0"0#6'(53"0=#+C()#1"#C+\$(,(\*"# #, . '#() \*3: '+\*(%)#  
1+)0#,"0# \$E+F)"0#1"#5+, . '# &% )1(+, "08# [,# " ; (0\*"#3: +, "&")\*#1"# )%&7' ". 0"0# 6%00(7,( \*30#1"# '")C% '\$"# , "0#  
&3\$+)(0&"0# '3: (% )+ . ;#\*#R. 1NR. 1#1"#\$\$%63'+\*(%)#\*"\$E)% ,% : (4. "-#)%\*+&&")\*#1+)0#1"0#1%&+( )"0#\* , 0#4. "#  
 , "0#\*"\$E)% ,% : ("0#5" '\*#0#\*# , +#\$%63'+\*(%)#( )1.0\*( ' , , "#\*#) . &3'(4. "8##

#  
**I .2'6+\$3'!5+#2-6#+-2'!J!!** "0#% '+\*". '0=#, "0#6+)3,(0\*"#0#\*# , "0#6+\*( \$(6+)\*0#1%(5")\*#V\*"#: . (130#6+ '#, "0#4. "0\*(%)0#  
6''\*( ))\*"0#0. (5+)\*"0# , %04. \,(0#( )''5'') ))\*##

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P8 n . , , "0#%6\*(%)0#6%,(\*4. "0#\*#4. . , , "0#&"0. ' '0#\$%)\$'<\*#0# , "0#@ 9 A#1"5'+( ) \*N(,0#+1%6\*''#\*#&"\*\*"#")#  
' . 5''# 6% . '# '')C% '\$"# , . '# 6%\*)\*( ' , # \$%&&"\$'+, # "# &+; (&(0" '# , "0# +5+)\*+ : "0# 4. \,(0# \*('')\*# 1"#  
,2% . 5''\* . "'#1"0#3\$E+): "0#+C()#1"#'3+, (0" '#,2%7-\$\*(C#1. #6% : '+&&"#10+\$(%)#1"# \$E+#\$%)0(0#+)\*#D#  
1% . 7, "# , +#6+ '\*#1"0#@ 9 A#1+)0# , "0#"; 6% '\*+\*(%)0#&% )1(+, "0#1\(\$#IJTP#o#

I8 n . , # / , "#, \,( ) \*3: '+\*(%)# '3: (% )+ , "#6" . \*N" , , "#-% . "'#6% . '#+\$%F\*"# , "#\$%&&"\$"#1"0#@ 9 A#\*#&&")\*#  
 , "0# ( )\*(+\*(5"0# '3: (% )+ , "0# "#\* 0% . ON'3: (% )+ , "0# 6" . 5'')\*N" , , "0# V\*"# 0% . \*") . "0# 6% . '# +\*#( )1' '# , . '#  
6%\*)\*( ' , # \$%&&"\$'+, #o#

T8 G%&&")\*# \*'+(\*"# , "0# 7+' (<' "0# \*+ '(C+' "0# "#) )%# \*+ '(C+' "0# "# , "0# + . \*"#0# )%'&"0# 6% . '# ; 6, %(\*"#  
6, " )"&")\*# , "#6%\*)\*( ' , #1"0#@ 9 A#o###

W8 n . , 0#\*#>6"0#1"#&"0. ' "0#\*#1"# \$+1' "0#6%,(\*4. "0#1"5'+( ) \*#V\*"#&(0#)#6, +\$"#6% . '#+(1' '# , "0#@ 9 A#D#  
'')C% '\$"# , . '# \$%&63\*(5(\*3#1+)0# , "#1#&+( )"1. # \$%&&"\$"#3, "\$\*%)(4. "#\*#4. . , # / , "# , "#0>0\*&#  
\$%&&"\$'+, #& . , \*( , +\*3'+, #6" . \*N(, #-% . "'#D#\$"#3: + '1#o#

U8 G%&&")\*# , "0#C, ; (7,( \*30#1%) \*#73)3C(\$(" )\*# , "0#@ 9 A#" )#5''\* . #1"0#<: , "0#1"#, 2^ 9 G#6" . 5'')\*N" , , "0#V\*"#  
 ; 6, %(\*3"0#6% . '# '')C% '\$"# , . '0# \$+6+\$( \*30#6E+'&+\$' . \*(4. "0#1"#6%1. \$\*(%)#1"#5+\$( )0# "#12+ . \*"#0#  
&31(\$+&")\*0#"00")\*( " , 0#o#G%&&")\*#"" )C% '\$"# , "#0% . \*(")#D# , +# : '+1. +\*(%)=#)%\*+&&")\*#6% . '# ' , "5" '#  
 , "0#13C(0# , (30#D# , +#6" '\*"#1"0#&"0. ' "0#1"#0% . \*(")#( ) \*') +\*(%) + , # , (3"0#+ . # \$%&&"\$"#o#

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