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

-.&"#/0"12)%"#

!"#\$%'&#'()%(#\*+, -."#"(#\$+/0".(1#\$+, , "#\*2%#)&)%(#3"%4".#52/3#%3\*()3(#6#\2)/(."7#8)%#)/#
&%'/#5"#3"%4"1#\$2"\*(#/3"#93"#: &/%'#;.+%5"#</#(+, -)%(#\*)3\*#."&=\$>"1#:.+?"()3(#\*"\*#
4+/@"&"@"\*#6#, +\%\'#4"&\'"\*#\*/.#&\"#\*+\0#

B+/.#C%, #D>E, F?%#</#(.)0)%%)%(#\$+, , "#A."/.#5"#: +/\*\*"F: +/\*\*"#5)3\*#\"#</).A".#5"#

&)#B+.("#5"#\(26\*(1#\$\"\mathref{P}\)+/.#\()\%\(\mathref{R}\)\"#\(\mathref{P}\)\*\"#\(\mathref{P}\)\"#\(\ma

\(\text{\mathcal{B}}\) \(\text{\mathcal{B}}\)

5%: +\*)%(#6#: .' \*''3(#&/%#\*'', -&)%''3(#%3''\*A, )-&''\*7#X0''\$#\$''&)1#%#: +/0)%(#\*2>/, ''\$(''.#&)# 4+.4"#52/3#0".."#5"#0%3#5"#.%/#-+3#, ).\$>'1#\*2%#%"#\*+/>)%()%(!Z#, )%\*#\*/.(+/(1#%#:+/0)%(# )\$>"(".#/3#-+&#5"#!"#\$"#%&'(%&#\\*+/: "#52+\*#5"#-[ /;P#: +/.#\*)#;", , "#, )&)5"7# `\)#;", , "#(+/\*\*)%(#5": /%#: &/\*#52/3#, +%7#D+, , "#%\*#32)0)%'3(#\*+/0"3(#, 0, "#: )\*#5"# </+%:.':).".#/3#4./)/#5"#, %&"(1#%#32'()%(#'0%5", , "3(#:)\*#</"\*A+3#5"#, '5%\$), "3(7# I''\$>3%/'', ''3(1#%#)/.)%(#: /#\*''#5' - . + /%&'' .#: +/.#)\$>''('' .#/3''#+/#5''/H#5+\*''\*1#, )%#%# '()%#;''., '', ''3(#\$+30)%3\$/#</2/3''#;+%\*#</2+3#J!;)%#;/%!K#/3''#, )&)5%'#6#\$+/:\*#5''# .", Q5"\*1#\$"&\"F\$\m#: ."35#4+](#"(#."0\"3(#\*)3\*#\$"\*\*"7#\/\%D)3(#\$"#: .\%3\%\"#: ".\*+33"\&\#\%# 3''#2)0)%(#?), )%\*#'', , ''3' ''#\$>''Y#&''#, '5''\$%31#\*%#-%'3#</2%#%43+.)%(#(+/(#5''#\*)#, )&)5%'7# 8)%#6#\)#0+%#5'\*+., )%#\$+/\$>'"#6#:&)(#5+\*1#\(\alpha\);)-&"#5"#\*"#(+/.3".1#\(\alpha\)#\(\alpha\)\%#</"# \$''&)#'', :%)%(7#!''#, )&#\*2'()%(#)44.)0'#/3''#5%()%3''#5''#?+/.\*#:&/\*#(V(1#):.Q\*#</2''&&''#''/(# , ) 34' #5/#, %&''(#, ) &#\$/%(#</\mathref{#}\)0) %(#\$)/\*' #/3''#\*' 00.''#\$+3\*A: ) A+37#^#\$''#, +, ''3(F&61# C%, #)0)%(#93)&", "3(#: /#\*"#: .+\$/.".#/3#: "/#52).4"3(1#)\$>"(".#/3#: "A(#\*)\$#5"#, %&"(#"(# /3#;)4+(#5"#-+%#6#-)\*#: .%H7#\"&+3#\*"\*#5%"\*1#J!\$"@"#-+33"F6F.%'31#:)3%/'"1#2)0)%(#;)%(# -+/%&%#5)3\*#/3"#, )., %("!K7#!"#,"/#'()%(#;)%-&"1#"&&"#'()%(#:."\*\*' "1#"(#&"#, %&"(#32)0)%(# :)\*#-%'3#\$/%(7#B+/.()3(1#J!\$"@"#5), 3'"#;", , "!K#)0)%(#\*)%\*#5"#: &"%3"\*#: +%43'"\*#5"# , %&''(#''(\mathbb{\pi'\rightarrow\rightarro &/\#)..)\$>".7#G&\"#)0)\(#\$+3A3/' #?/\*</26#)0+\%#\\"\*#?+/\"\*#4+3\_\'\"\*#\$+,\,\\"#5\\"\*#:\+\%34\*7#!\\"# \*+%#, O, ''1#''&&''#4', %\*\*)%(!`#''&\''#)O)%(#, )&#6#&)#: +%(.%3''1#\*''#\*''3()%(#+::.''\*\*' ''1#''(#.+/&)%(# 5"\*M"/H#\$+,, "#"3#: &"%3"#\$.%\*"7#

J!a+3#\*) 341#;", , "!b#I /#(+, -"\*#, )&) 5"#</) 35#(/#3"#, ) 34"\*#: ) \*1#" (#(/#(+, -"\*# "3\$+."#, )&) 5"#</) 35#(/#, ) 34"\*!b#c/2"\*(F\$"#</"#!"#\*/%#\$"3\*'#;)%"!d#e/0."#5+3\$\\"#\\"\"H!b!K#

\(\mathbb{\text{W}}\) \(\mathbb{\text{W}}\) \(\mathbb{\text{R}}\) \(\mathbb{\text{R}}\)

W'\*+., )%1#%#%"#: +/0)%#"3937#W#: +/..)%#, 0, "#)\$>"(".#5"#\)#-+/%&%"#: +/.#\\(.+\%#\)3\*1#f\)"@+341#</#: &"/.)%(#5"#;)% #: .Q\*#5"#\*)#, Q."#, )&)5"7#c/)(."F0\%34(\*#?"+3#"3#: +\$>"1#C\(, #D>E, F?\%\*"#\*"3()\(#6\%2)\%"1#: ."\*</"#.\%\$>"7#

 $\text{C\%} \quad \#^*2\% \quad , \quad +-\%\%^*) \#'' \left(1 \#'' \ 3 \#^* '' \# . '' \left(+ \ / \ . \ 3\right) \ 3 \left(1 \#\right) \ : \\ \text{''} . \ \text{R} / \left(\# \ / \ 3 \#' \ \$ \text{QO''} \# 5 \ '' \# 5 \ '' \# 6 \ '' \# 7 \$ 

)\$\$+/.)%(7#!"#?"/3"#4).R+3#)3R)!#

J!D+, -%'3#!/\*</26#)#4)."#5"#h), 5)", /3!d!K#

D2' ()%#\*) 3\*#5+/("#/3#: "3\*%+33)% "#</#."3(.)%#\$>"Y#k/%#: +/.#k"\*#0)\$) 3\$"\*#52>%0".7#\&#
)0)%#5]#: .' 0+%#5"#: ).A.#\$"#?+/.F&61#, )%#"3(."#\)#: &/%'#"(#\*"\*#-)4)4"\*1#%#3"#\*)0)%#: )\*#
\$+, , "3(#;)%"7#B/%#%#)0)%#0/#C% 1#\$+/.)3(#\*+/\*#\)#: &/%'1#\$>)/\*\*' #5"#\*+/&%'.\*#6#5", %#
/\*' \*#"(#00(/#52/3#>)-%#+\$\$%5"3()&#' &% '7#

J!I/#0"/H#)&".#6#()#4)."#5"#h), 5)", /3!d!K#

C%, #>' \*%()#/3#%3\*()3(7#D.)%43)%(F%#5"#;)%"#/3#\*%%+34#(.)?"(#\*+/\*%)#: &/%"#\*)3\*#

: .+("\$A+3!d#e/#"()%(F%#5'?6#\*)A\*;)%(#5"#\$"#</2%#)0)%(#4)43' #%"#, )A3!d#h+31#: )\*#5/#

(+/(7#D2'()%#: &/(V(#/3#%'4".#\*"3A, "3(#5"#\$.)%3("#5"0)3(#()3(#5"#\$>)3\$"#\*+/5)%3"7#W"#

: &/\*1#%#\*+34")%(#6#%)#5", )35"#5"#\*)#;", , "#\$"#, )A3F&67#c/)35#%)#0+%%3"#2)0)%(#

):: "&' 1#\*)#;", , "#T #\"#0\%)4"#5' \$>).3' 1#\"\*#M"/H#\$+, , "#5".3%'.#."\_"(#5"#0\%'1#4.)35\*#

"(#\$)0"\*#T #\2)0)%(#."4).5' #52/3#)%#\*/:: &%)3(7#

J!h"#\*+.\*#: )\*#)/?+/.52>/%#i "\*("#6#&)#, )%+31#?"#\*/%#(.+:#, )&j !K#

X0)%(F''&\''#, /., /.'1\'\)#.''\*: %)A+3#.=: ''/\*''7\\)3\*\\#: .0(''.\#)@''3A+31\\#C\\ \#)0)\\(\#\\.':\\\&\''!\\#

J!a+3#\*) 341#;", , "1#(/#5' &% "\*!d#\\%?"#."\*("#\61#</\%0)#3+/\*#3+/..%!d!K#

U&#) 0) %(#-+35\#: +/.#: ).A.1\#, ) \%\#'\&\\"#) 0) \%\(\#\); ) \%-&\\", \\"3(\#\\"\\*#-.)\\*1\#\\$+, , \\"\#: +/.\#\\"# .\\"(\"3\%\7\# J!h''#: ).\*#: )\*j #+/#."0%'3\*#0%("1#\*\#(/#5+\%#M#)&\".j !K#

G&&''#\(2\)0)%(#)::''&'#52/3''#0+\(4\)#'(.)34\(6\)''#()35\(6\)#</2\(6\)#\*2'\&+\(4\)3)%(7#

^#: .' \*"3(1#"3("35)3(#\\dark2' \&Q0"\#\/\\#5", )35".\#52)\&\\dark".\#!/\*</26\\dark)\#4)."1\#C\\, \#."0\\(\(\frac{4}{8}\)''3\#: "3\*' "\#\\\\\dark".\#\,)\\\dark3\\dark(.\, -\&\)3("\dark5\\dark)\#;", , "1\#\\dark"\dark4.)35\dark\#