



?+, "T=, .%\$'(>"/7, "/0-#12"4"8%'5%95, "0./&"%(: "&, &9, ."/0"\$+, "-/&&'\$\$, , "%(7"/("\$+, "DC'7&/., "  
>/8, .(%(3, "6, 94'\$, ,"

2

1/). "&, &9, .4"/0"\$+, "1%3)5\$. ""(/(, "/0"6+/&"4"/("#?- "B- -#D"/. "1#S""%\$5, %4\$"/(, "/0"6+/&"4"  
)(\$, ()., 7""%\$"\$+, "\$'&, "/0", 5, 3\$'/( "%(7""%\$5, %4\$"\$+., , "/0"6+/&"%. , "\$, ()., 7"" , %3+"\$/4, .8, "%"\$+., , X: , %."  
\$, .&"%(7", %3+"0./&"%7'00, ., (\$7, =%.&\$, (\$@%(7"/&/., "\$+%("0'8, "4\$)7, (\$4"4, 5, 3\$, 7"9: "DY#;"  
#"&, &9, ."6+/"+"4"4, .8, 7""0)55"\$+., , X: , %."\$, .&"4", 5'>'95, "0/." , X, 5, 3\$'/( "%0\$, . "9, '(>"/)\$"/0"/00'3, "0/."

#55"=/\$, (\$'5"&, &9, .4"/0%"?2D'E';, ;:"%55"\$, () ., 7"&, &9, .4"/0"-#12F"&)4\$3/&=5, \$, "\$+, "4%&, "9%'4\$\$.%'('(>" \$+%\$"?- "3/&=5, \$, 4%"\$"\$+, "4\$%.\$"/0"\$+, "%3%7, &'3':, %.;?+, "-+%'. "/0"-#12"4+//)57"., %3+//)\$"\$/\$+, "-+%'. "/0"?- "%(7H/."\$+, "#44/3%'\$, "I, %("0"\$+, "1%3)5\$: "E#I T1F"("/.7, . "\$/3//.7'(\$\$, "\$+'4\$\$.%'('(>:"

!"#\$%&'()\*#(#+,)-'(%'#.-,&'#+,\*(#0(1#&%(#)234-//('#+#0(#5...\*(#+.#0(#6(\$-)%&%7#!,# -,%/2\*/+%#4&1#%(82(/#&#\*0&,\$(#-,#0(#)/2'(/,9)#\$%&'(#.#0(#-,%/2\*/+%#0&)#4&'(#&#+4:2/&/-+,&"# +%#\*(%-%&'(%%+%7#;+#\$%&'(#4&1#3(#\*0&,\$('#+,#0(#3&)-)#+.#(/)/-,\$#+%#)2::"(4(/&%1#<+%#7# >?\*(:/#-,#0(#\*-%\*24)/&,\*())#2"-,( '#-,#0(#@+"-1#/#+!::(&"#&#A-,&"#A&-"-\$#B%&'(#CA&\*2"/1# D&,'3++=E#@&%/#F<+E#GGGE#H I(..(\*-J(#K2,(#LMNMOE#(:/-+,-)#/+\*#0&,\$(\$%&'())#42)/#+-\$-,&(/# <-0#0(#.&\*2"/1#4(43(%)#\*+,\*(%,( '#&,'#3(#3#+2\$0/#3(.+%(#0(#P+44-//((#+,#!\*&'(4-\*# Q/&,'-\$#CP!Q0#.+%#\*+,-)'(%&/-+,#7R-0#0(#\*+),(/#+.#0(#-,%/2\*/+%#&,'#P!QE#\$%&'())#4&1#3(# \*0&,\$('#&)&#\*+),(82(,\*#+.#&,#&\*&'(4-\*#-./(\$-1#-,%&\*/-+,#+%#2:+,#0(#%(\*+44(,'&/-+,#+.#0(# P+44-//((#+,#!\*&'(4-\*#A%(('+4&,'#6-\$0)#CP!A607F0(#.2,\*/-+,#+.#0(#P!A6#)#/+#%(\*(-J(# -,#82-%-())&,'#+4:"&-/)#+,\*(%,-,\$#&\*&'(4-\*#%(('+4&,'#-\$0)#&,'#+\*#\*+,-)'(%#.-%4&#\*0&%\$())# +.#J-+/"&/-+),#+.#&\*&'(4-\*#%(('+4&,'#-\$0)#%+4&#1#4(43(%#+.#0(#P+)"(\$(\*+442,-/1# -,\*"2'-,\$#)/2'(/,7)G,82-%-())#\*+,\*(%,-,\$#&\*&'())#42)/#3(#-,-/&/'#31#)/2'(/,)#C-,\*"2'-,\$#)(,-+%#0# &#)++,#&#:#+)-3"(&./(%#\$%&'())#0&J(#3((,#%('(&)( 'E#&,'#+,#&/(%#0&,#0(#.-%)/#<+#+<((=)#+.#0(# .+""+<-,\$#)(4(/)%7#

!""#\$%&'(\$)\*+,-\$%&'().&'\$%)/0\$1#)

F0(#P+44-//((#+,#!\*&'(4-\*#A%(('+4&,'#6-\$0)#CP!A60#'+())#,+/#0(&%#\$%&'(#'-):2/(#\*&())# .%+4#)/2'(/,)#2,"())#(..+%/)0&J(#.-%)/3((,4&'(#/+#%())+"J(#4&/(%)#<-0-,#0(#&::%+:-&/(# '(:&%/4(/#+%#:#+\$%&47#G.E#&./(%#\*+),)2"/&/-+,#<-0#0(#-,%/2\*/+%#&,'#0(#'(:&%/4(/#+%#:#+\$%&4# \*0&-%E#0(#)/2'(/,0&#)(J-'(,\*(#0&/#0(#\$%&'(#%('(\*)#&#3-&)+,#0(#:#&/#+.#0(#-,%/2\*/+%#-,# J-+/"&/-+,#+.#&\*&'(4-\*#%(('+4&,'#-\$0)#E#0(#)/2'(/,/#4&1#%())(/#0&/#(J-'(,\*(#/+P!A67P!A6# '+())#,+/#0&J(#0(#&2/0+/-1#/+\*#0&,\$(#&#\$%&'(E#32/#-,\*#&())#+.#J-+/"&/-+,#+.#&\*&'(4-\*#%(('+4&,'# #-\$0)#<-0#%():(\*#/#+P#\$%&'())E#\*&#4&=#(#&#%(\*+44(,'&/-+,#/+#0(#-,%/2\*/+%#&,'#P+44-//((#+,# !\*&'(4-\*#Q/&,'-\$#CP!Q0#0&/#0(#\$%&'(#3(#\*0&,\$('7#!,1#\*0&,\$(#-,\$#&\*&'(#(82-%)0(# -,%/2\*/+%#S)#\*+),(/,7#

""

?+,"!#\$%&'()\*""\*+,-,-.4\$%\$,4"EB%.\$"T(,"#.\$'35,"KJF"\_?+, "3/(0'7, (\$'5"(%\$)., "/0"\$+, 4, "7'43)44'/(4"4" ., 4=, 3\$, 7"9:"%55"=%.\$', 4"\$%C'(>="=%.\$';"-#12"(\$, .=-, "\$4\$+'4\$"/"&, %("\$+%\$"%55"(7'8'7)%54"(8/58, 7"("(:"

4, .8'(>"%4"6'\$(\$, 44, 4@3/(0'7, (\$'%5'\$: "%54/"%==5', 4"\$"/"\$+/4, "3., %\$'(>"/. "., 8', 6'(>%"(: "7/3)&, (\$4"., 5%\$, 7"  
\$/"\$+, "3/&=5%'(\$;"K(0/.&%"\$'/"%9/) "\$\$+, "3/&=5%'(\$'"4"\$+, ., 0/. ., "=./8'7, 7"/(5: "\$"/"\$+/4, "(7'8'7)%54"6'\$+('\$"  
\$+, "3/55, >, "6+/"%. , "7'. , 3\$5: ""(8/58, 7""("\$+, ""(8, 4\$>%"\$'/"% (7H/. "., 4/5)\$'/"0"\$+, "3/&=5%'(\$;"?+'4"  
7/3\$. ' ("0'3/(0'7, (\$'%5'\$: "6'55"9, ""(", 00, 3\$7) . '(>%"55"4\$, =4"/0"\$+, ""(0/.&%"5%(7"0/.&%"5"(A)' .: ". /3, 44, 4"  
/)55'(\$, 7"9, 5/6;"

""

#55"3/&&'\$\$, "7'43)44'/"% (7"7/3)&, (\$4""\$+, ., 0/. ., ""., &%"("3/(0'7, (\$'%5;"K""4"\$+, "., 4=/(4'9'5'\$: "/0"\$+, "  
-+%'. "/0"-#12"\$\$/""(0/.&%"55""(7'8'7)%54""(8/58, 7""("\$+, ""(8, 4\$>%"\$'/"0"\$+, '. ". '>+\$4"% (7"., 4=/(4'9'5'\$, 4"0/."  
&%"(\$%'('(>"3/(0'7, (\$'%5'\$: ;-/&=5%'(%(\$4&%"6%"8, "\$+, '. ". '>+\$"/3/(0'7, (\$'%5'\$: ""('/.7, ". "\$/"%55/6"-#12"  
\$/"3/&&)'3%\$, "&/., "7'. , 3\$5: "6'\$+"\$+, "%7&'('4\$.%"\$'/"% (7"/"\$+, ., (\$'\$, 4@4)3+"6%"8, .4"4+/)57"9, "  
. , 3, '8, 7""(6. '\$'(>;"K("\$+, "8, (\$"\$+%\$7, 5'9, .%"\$'/(4"/("%"3%4, "3/('\$'), "=4\$"/(", "%3%7, &'3": , %." "\$+, "  
3/&&'\$\$, "E%4"3/(4\$)\$, 7"0/.". , %3+%3%7, &'3": , %."F"6'55"3/('\$'), "+, %.'(>"\$+, "3%4, ;"b, 65: "5, 3\$, 7"  
&, &9, .4"6'55"9, ""(0/.&, 7"%9/)" "\$+, "3%4, "9: "\$+, "3/('\$')'(>)&, &9, .4"/0"\$+, "3/&&'\$\$, , ;"

"

'(A)'.', 4;"Z '\$+\$+, "3/(4, (\$/0\$+\$, "3/&=5%'(%(\$\*\*", 8, .:" , 00/.\$"4+%55"9, "&%7, "\$/"., 4/58, "\$+, ""44), "%&'3%95:"  
'(/.7, . "\$/"%8/'7"0/.&%5"3+%>, 4;"?+, "7/3\$. '(, "/0"3/(0'7, (\$%5'\$:"E%9/8, F"4+%55"9, "/94, .8, 7"\$+./)>+/\$"  
\$+'4"4\$%>, ;"

""

E?+'4"4\$%>, "&)"4\$"9, "=., 3, 7, 7"9:"(0/.&%5"(A)'.', 4;F"

""

#;"#(A)/.)&"/.0/.&%5"=. /3, , 7'(>4"4+%55"9, "\$+., , "0%3)5\$:"&, &9, .4;"#(A)/.)&"4"(, 3, 44%.: "\$/0/.&%55:"  
7'43)44%"3%4, ;"

K0%"0/.&%5"3/&=5%'(\$"4"9./)>+ "\$/"-#12"/.3%..', 4"/8, . "\$+, "=", . '/7"/)\$4'7, "\$+, "gX&/(\$+"3/(\$.%3\$)%5"  
/95'>%\$'/(0/.0%3)5\$:"%(7%A)/.)&"3%((/\$"9, " 4\$%95'4+, 7"\$+\$, "-+%'. "/0-#12"/.7, 4'>(, ""(3/(4)5\$%\$'/(  
6'\$+"1d-6'55"3/(\$%3\$"=. , 8'/)4"&, &9, .4"/0-#12"("., 8, .4, X3+./(/5/>'3%5'/.7, .""("/.7, . "\$/0'(7""  
\$, &=/.%.: "&, &9, . ;"?+, "0/.&%5"3/&=5%'(\$"3%("=. /3, , 7'/(3, "%(A)/.)&"4", 4\$%95'4+, 7;"K0"4)94\$(\$%5"6/.C"  
'4"4"(8/58, 7"1d-"%(7"-#12"6'55"</'(\$5:"., A), 4\$"4)94'7', 4"0./&"\$+, "I T1HJB##;"

"

S;"#3/&=5%'(%(\$&%"9.'(>0/.&%5"3+%>, 4"0\$ , "\$+, : "+%8, "=").4), 7"%"(0/.&%5"(A)'.': "\$+./)>+"-#12"  
%(7"0\$ , "\$+, . "+%8, "7, \$ , .&'(, 7"\$+%\$%"0/.&%5"(A)'.': "3/)57"9, "6%..%(\$, 7"/.9, (, 0'3'5;"

""

-;"?+, "3/&=5%'(%(\$&)"4\$)9&'\$"\$+, '. ">.', 8%(3, 4"("6.'\$'(>"(7'3%\$'(>"35, %5:"%(7"=. , 3'4, 5:"6+'3+"  
%3%7, &'3"0., , 7/&4"7".'+\$4"+%8, "9, , ("8'/5%\$, 7"%"(7">%'(4\$"6+/&"\$+, "3+%>, 4"%., "7'. , 3\$, 7;"?+'4"  
7/3)&, (\$"4+/)57"9, "4)9&'\$\$, 7"\$/"-#12"%5/(>"6'\$+"%(: "4)=-/. '\$'(>"&%\$, . '%54;"

""

I ;"?+, "3/&&'\$\$, , "&)"4\$"4, (7"3/'=, 4"/0"\$+, "3+%>, 4"\$/"%(: "=, .4/(E".=, .4/(4F"%>%'(4\$"6+/&"\$+, "0/.&%5"  
3+%>, 4"+%8, "9, , ("5/7>, 7"%"(7"&)"4\$'(/\$'0:"\$+, &"\$+%\$"\$+, : "+%8, "%'. '>+\$"/"%=, %, "9, 0/. , "\$+, "3/&&'\$\$, , "  
\$/="., 4, (\$"\$+, '. "8', 64;"K("77'\$'/( "\$+\$, "3/&&'\$\$, , "4+%55"4, (7"\$/"\$+, "B., 4'7, (\$"3/'=, 4"/0"\$+, "3+%>, 4;"

""

d;"-#12"&%"(8'\$, "%(: "=.%.\$', 4"7, , &, 7"., 5, 8%(\$"/"\$+, "3%4, "\$/3/&, "9, 0/. , "\$+, "3/&&'\$\$, , ;"B%.\$', 4"&%"  
3/&, "9, 0/. , "\$+, "3/&&'\$\$, , "6'\$+"%3/55, %>), ""0.'. (7"/. /\$+, . "%78'4/. "6+/"4"(/\$%3\$'(>"%4"%"(\$\$/.(, : ;"  
?+, "3/&&'\$\$, , "4+%55"3/(7)3\$"\$+, "=. /3, , 7'(>4;"

""

1;"K0"("\$+, "3/).4, " /0""\$4" (8, 4\$'>%\$'/( -#12"7, , &4"\$+%\$%"=, .4/("/.=, .4/(4"(/\$"(%&, 7" ("(\$+, "/.'>')(%5"  
3+%>, 4"&%" "+%8, "8'/5%\$, 7"\$+, "3/&=5%'(%(\$M%"3%7, &'3"0., , 7/&"(7".'+\$4""\$"4"=44'95, "\$/5/7>, "0/.&%5"  
3+%>, 4"%>%'(4\$"\$+%\$"=, .4/("/.=, .4/(4;"K("4)3+"(4%(3, 4"-#12"4+/)57"3/(4'7, . "\$+, "%3%7, &'3"0., , 7/&4"  
%(7".'+\$4"/0"55"=%.\$', 4" ("7, 3'7'(>"+/6"\$/"=. /3, , 7;"

""

!;K("4/&, "3%4, 4\*\*\*\$&#: "9, "&/4\$%==./=. '%\$, "\$/"3/(4)5\$'6'\$+"\$+, "/.'>'(%5"3/&=5%'(%(\$=".'/"\$/"(''\$%'\$'(>"  
0/.&%5"3+%( >, 4"%>'(4\$%"("77'\$'/(%5"=, .4/("'.="=, .4/(4;"?+'4"4", 4=, 3'%55: "., %4/(%95, ""("3%4, 4"6+, ., "  
'('\$%'\$'(>"0/.&%5"3+%.>, 4"%>'(4\$%"(, 6"., 4=/(7, (\$"&#: "&%C, "\$+, "3/&=5%'(%(\$8)5(, .%95, "

""

W;"1/.", N%&=5, \*\*\*0'\$+, "3/&=5%'(%(\$"+%7"4)4=, 3\$, 7"\$+%"\$%"("'(7'8'7)%5"8'/5%\$, 7"\$+, '.".'>+\$4%"(7"  
3/&&('3%\$, 7"\$+'4"3/(3, .("\$/"-#12%"\$"\$+, "K(0/.&%5"K(A)'. : "4\$%>, \*\*9)\$"+%7"5%3C, 7"4)00'3', (\$, 8'7, (3, "\$/"  
5/7>, "0/.&%5"3+%.>, 4"%>'(4\$"\$+, &"3/(4)5\$'(>"6'\$+"\$+, "3/&=5%'(%(\$E6'\$+/\$)"7'8)5>'(>"+, "3/(\$, (\$4"/0"  
\$+, "(, 6", 8'7, (3, F"4") (5'C, 5: "\$/"3/&=./&'4, "\$+, "(, 6"., 4=/(7, (\$M".'>+\$"/"3/(0'7, (\$%'5'\$: "(/."\$+, "  
3/&=5%'(%(\$M".'>+\$"/"=../\$, 3\$/'(7"4%"("&=/.%\$

\$+, "I , %("/0"1%3)5\$:HJB##&%"9, "(8'\$, 7"/%\$\$, (7;"?+, "B., 4'7, (\$"4+%55"7'43)44"\$+, '."=. , 5'&'(%.: " 7, 5'9, .%\$'/(4"6'\$+"\$+, "-+%'. "%(7"%"(:"/\$+, ."%=\$', 4"=. , 4, (\$\*\*6+/"4+%55"4)=="5: "\$+, "B., 4'7, (\$"6'\$+"%(: " %77'\$'/(5" (0/. &%"\$'/"\$+, : "&%"="/44, 44". , 5, 8%(\$"/"\$+, "3%4, ;"

""

j;"?+, "B., 4'7, (\$"4+%55"3/&&)'3%\$, ""("6.'\$'(>"/"-#12"\$+, "%3\$'/(4"\$%C, ("/. ""(="./>. , 44"" . , 4="/(7'(>"/"\$+, " 3/&&'\$\$, , M#0'(7'(>4"%"(7". , 3/&&, (7%\$'/(4;"

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""

DBd-k#k"kbD?#b-dD"1T1T2Q#k"-P#2YdD"

E?+, 4, ">)'7, 5'(, 4"4)=="5, &, (\$"\$+/4, "%9/8, \*\*%(7"&)4\$"9, ")4, 7"6+, ("=="5'3%95, F"

""

#;"-/&=5%'(\$4"5/7>, 7"%">%'(4\$"\$+, "B., 4'7, (\$"

""

K("3%4, 4"6+, ., "0/.&%"5"3+%.>, 4"% . , "5/7>, 7"%">%'(4\$"\$+, "B., 4'7, (\$\*\*\$+, "3/&&'\$\$, , "4+%55". , =/."7'. , 3\$5: "\$/" \$+, ". , 5, 8%(\$3/&&'\$\$, , E4F"/0"\$+, "S/%.7"/0"?.)4\$, , 4;"?, 4\$'&/(: "+, %.7"7). '(>"\$+, "(0/.&%"5"4\$%>, "&%"9, "





#"3/&=5%'(%(\$"&%:"9.'(>0/.&%5"3+%.>,4"9:"4)9&'\$\$'(>"%5,\$\$,."\$/"\$+, "-+%'. "/0"-#12"9:"Q%.3+"W!\*" %55,>'(>'"%"35,%.%"(7"3/(3'4,"&%((,.,N%3\$5:"+/6"\$+, "3/(4'7, .%\$'/( "/0"\$+, '."\$, ( ) ., "3%4, "6%4" '(%7,A)%\$, "%(7H/."+/6"\$+, '."%3%7, &'3"0.,, 7/&4%"(7'.'>+\$4"6,., "8'/5%\$, 7;"?+'4"5,\$\$, ."4+/)57"0/55/6"\$+, ">)'7,5'(,4"/)\$5'(,7"%9/8,"0/."1/.&%5"K(A)'.',4;"

T(3, "\$+, "3/&=5%'(%(\$"9.'(>4"0/.&%5"3+%.>,4\*\*%"?2D"4"3/(8,(,7;"Q, &9, .4"/0"\$+, "?2D"4+%55"9, "\$+, "/(5:" -#12"&, &9, .4"6+/"=.%.\$'3'=%\$, "'("\$+, "., &%'(7, ./0"\$+, "=./3,44;"?+, "?2D"4"3/&=4,7"/0"\$+, , "\$, ( ) ., 7" &, &9, .4"/0"-#12\*\*(/(, "/0"6+/&"%.," (" "\$+, "3%(7'7%\$, M"7, =%.\$&, (\$"/."6+/"\$/+, .6'4, "., =/.\$%"3/(05'3\$ "/0"(\$, ., 4\$;"?+, "(3/&'(>"%(7"3).., (\$"-+%'.4"/0"-#12"6'55"4, .8, "/("\$+, "?2D"6+'3+'4+/)57"9, "3+%'. , 7"9:" \$+, "3).., (\$"-#12"-+%'.;"D+/)57"%4"\$\$\$'(>)&, &9, ./0"-#12\*\*6+/"6/)57"/\$+, .6'4, "9, "=%.\$"/0"\$+, "?2D\*\*+%8, " %"3/(05'3\$/0"(\$, ., 4\$\*\*\$+, "-+%'. "/0"-#12"6'55"3/(\$%3\$="., 8'/)4"&, &9, .4"/0"-#12"6'\$+\$, ( ) ., "'(., 8, .4, X 3+./(/5/>'3%5"/.7, .\*\*("/.7, . "\$/0'(7"%4)'\$%95,"4)94\$(\$)\$, ;"?, "3/&=5%'(%(\$"4+%55"9, ""(0/.&, 7"\$+%\$\$+\$, " ?2D"+%4"9, , (3/(8, (, 7;"

""

?+, ""(8, 4\$'>%\$'8, "=./3, 44"4+%55"0/55/6"\$+, "=./3, 7).., "/)\$5'(, 7"%9/8,"0/."1/.&%5"-+%.>,4\*\*6'\$+\$+\$+, " 0/55/6'(>="./8'4'/(4["K0"\$+, "?2D"7, (\$'0, 4"\$+%\$""(%7,A)%\$, "%(7H/."8'/5%\$'/( "/0"%3%7, &'3"0.,, 7/&4%"(7' .'>+\$4"&%:"+%8, "&%\$, .'%55:""&=%3\$, 7"\$+, "3%(7'7%\$, M"\$, ( ) ., "3%4, \*\*\$+, "?2D"&%:"3/(8, (, "%"?#-;"?/" 3/(8, (, "%"?#-\*\$+, "-+%'. "/0"?2D"4+%55"3/(\$%3\$"\$+, "-+%'. "/0"#?-"("/.7, . "\$/"(''\$%\$, "\$+, "=./3, 44;"?+, "-+%'. "/0"-#12"%(7"\$+, ""(3/&'(>"+%'. "/0"-#12"4+%55"4, .8, "/("\$+, "?#-;"

!"#\$%&' (

) " \* + , - - . / (

-2d#?kbY"BTKk-n"

""



