!"#$%&'&(')$*+,-."+#/'0##$1*&."+#2'3+4$1#".52'&#4'.6$'7$#($('

85/'9",,')+%"#$(2'!:';<='

!

!"#$%&%!'(!)!+,-!$%!+*./0!1*)1%'2%!*3!,!&%(4*&,4'*)!*3!4$%!')(4')14.,/!5*+%&!*3!4$%!(%)(%(!,)0!4$%'&!')4%6&'4-!4$,4!+*./0!)*4!4,7%!')4*!,11*.)4!4$%!%84%)4!4*!+$'1$!4%1$)*/*6-!$,(!,/&%,0-!9%1*:%!5,&4!*3!4$%!$.:,)!9*0'/-!(%)(*&'.:;!9-!4$%!(,:%!4*7%)<!4$%&%!'(!)*!(4&,4%6-!3*&!5&%2%)4')6!$.:,)'4-=(!(%/3>0%(4&.14'*)!')!+$'1$!4%1$)*/*6-!+*./0!)*4!5/,-!,)!%((%)4',/!&*/%?@!*

>3"1"&%'?&#($#'+#'9&,.$1'8$#@&%"#'2'G"#$%&'A&('&#'&HH&1&.-(C'"('&'.$G6#+,+E5'(.1"*"#E'.+'1$G1$&.$'.6$'($#($('.61+-E6'&'.$G6#+,+E"G&,'%$4"-%I'9 6",$'.6$1$'"('(+%$'%$1".'.+'&'G1"."G"(%'+F',&1E$'(G&,$'"#.$E1&."+#'+F'.$G6#+,+E5'"#.+'+-1'(+G"$.5'A"#'H(5G6+,+E52'J&1F&1$2'.6$'$#*"1+#%$#.C2'G"#$%&2'&('&'(H$G"F"G'.$G6#+,+E"G&,'&HH&1&.-(2'

(."%-,&."+#'&#4'1$&G6'"#.+'$%H&.6$."G'1$(H+#($'K5'J&5'+F'T.6$'(6&1$4'&FF$G."*$'#$-1&,'(5(.$%('

"#'J6"G6'G+%%+#'K1&"#'&1$&('&1$'&G."*&.$4'4-1"#E'K+.6'$QH$1"$#G$'&#4'H&(("*$'+K($1*&."+#N'

G"#$%&'G&#'

&#+.6$1/'F+1'$Q&%H,$2'H,&#.','F$'%$4"&.$('#-.1"$#.('&#4'(-#,"E6.'A.61+-E6'H6+.+(5#.6$("(CI'

b#,"M$'"##$1*&."+#2'J6"G6'"('&'G+##$G."*$'."((-$'"#'.$G6#+,+E"G&,'G+%%-#"G&."+#'&#4'.6$'6-%&#'

J+1,42'%$4"&."+#'"('#+.'(+,$,5'G+%%-#"G&."+#'A&,.6+-E6'&,,'G+%%-#"G&."+#('&1$'%$4"&.$4CI'

!+%%-#"G&."+#2'"#'!-K"..N('*"$J2'J&('&G.-&,,5'&#'T+1"E"#&,'("#N'.6&.'K$E&#'.+'&,"$#&.$'6-%&#('

J&5'&K+-.'$G+,+E52'K-.'".'"('".($,F'&#'$G+,+E"G&,'&1."F&G.2'+#$'.6&.',"#M('6-%&#2'.$G6#+,+E"G&,2'&#4'
+1E&#"G'J+1,4('"#'.6$'G+#.$Q.'+F'G+,+#"&,"(%R'A!-K"..2'eCI'D6"('(6+J('6+J'F",%2'&('&'-#"[-$'
G+%%-#"G&."+#'%$4"-%'A&#4'+#$'+F'($G+#4'.$G6#+,+E5C'G&#'1$>$(.&K,"(6'+-1'G+##$G."+#'.+'.6$'
#&.-1&,'J+1,4'A.61+-E6'&'G+#F1+#.&."+#'+F'4$G&5'&#4'1$G,&%&."+#C2'&#4'H1+*"4$'&'K1"E6.$1'
H+(("K",".5'F+1'&'F-.-1$'"#'&'%$G6&#"L$4'&#4'G&H".&,"(.'J+1,4I'?1'.6$'%$4"-%'".($,F'AF",%'(.+GMC2'
&#4'#+.'@-(.'.6$'&HH&1&.-('+1'F",%',&#E-&E$2'"('.6$'($G+#4'.$G6#+,+E52''

8$#@&%"#N('G+#G$H.'+F'"##$1*&."+#'P&('&#'&#."4+.$ i &#4'G+-#.$1G+#G$H. i .+'
.$G6#+,+E"G&,,5'%-,."H,"$4'(6+GM'&#4'".('&#&$(.6$."L"#E'$G+#+%5R'A?&#($#2'fC2'6+J$*$12'6&('&'
("E#"F"G&#.'#-%K$1'+F'(G$H."G(I'O+#&.6&#'8$,,$1N('65H+.6$("('+F'H(5G6+H&.6+,+E5'A&('4"((+G"&."+#'
+F'(5%K+,"G'("E#"F"$1(C'"#'.6$'%+4$1#'G-,.-1$'H1+*"4$('&'G,$&1'G+-#.$1H+"#.'.+'.6$'H+("."*$'
1GH."+#'+F'.$G6#+,+E5'&('($$#'K5'8$#@&%"#/'P^'M$'.6$'(.&.$'&#4'.6$'K&#M('.6&.'&1$'.6$%($,*$('
G+#(.".-.$4'"#'".2'1$H1$($#.&."+# i *"(-&,'&#4',"#E-"(."G i "('(.1-G.-1$4'K5'&'%&.1"Q'+F'
H&.6+,+E"(."G&,'H1+G$((($('&#4'"('.+4&5'.+.&,,5'K&#M1-H.R'A8$,,$12'=gCI'8$,,$1'*"$J('.6$'"#4-(.1"&,>

D6"('"('J6$1$'0'.&M$'"((-$'J".6'8$,,$1N('&1E-%$#.2'$(H$G"&,,5'"#'G+#.1&(.'.+'.6$'K$#$F".('+F'

H1"%+14"&,'($#(&."+#'"#'$%H&.652'&('H-.'F+1J&14'K5'K+.6']"($#(.$"#'A.61+-E6'(5#$(.6$("&C'&#4'

8$#@&%"#'A.61+-E6'"##$1*&."+#'&#4'%"%$."G'"4$#."F"G&."+#CI':44"."+#&,,52'".'($$%('-#F+-#4$4'.+'

H,&G$'.6$'K,&%$'+F'%+4$1#'

+14$1'.+'G&H.-1$'.6$'G+%H,$.$'(G+H$'+F'.6$($'%+*$%$#.(C'H1+*"4$('

.6&.'".'"('F&1'F1+%'E1&.-".+-('.+'.6"#M'.6&.'9$,,('%$&#.'.+'K1"#E'.6$($'H1+K,$%('.+'.6$'F+1$'

(H$G"F"G&,,5'.61+-E6'.6"('-($'+F'%+#.&E$2'&#4'"('#+.'"#(.$&4'-#G+#(G"+-(,5'1$"#F+1G"#E'&'

.6$'F",%'".($,FI'0#4$$42'".'"('4$%!3'/ : !.6&.'F+1G$(' 3 &1"+#'.+'(.+H'&.'.6$'8&.$(' 3 +.$,I'WdX'85'K1-.&,,5'

G-.."#E'6$1'-H'&('6$'4"4'"#'.6$'%"44,$'+F'.6$'F",%2'6$'.6-(2'&E&"#(.'.6$'&-4"$#G$N('$QH$G.&."+#(2'

G-.'.6$'F",%'(.&1'+-.'+F'.6$'F",%'6&,FJ&5'.61+-E6'.6$'#&11&."*$I'D6$'($G+#4'

%&G6"#$'J+1,42'J$'&1$'E"*$#'G&-."+#&15'.&,$('+F'&'J+1,4'.6&.'.6$'F",%('&1$'&G."*$,5'.15"#E'.+'
1$("(.2'#+.'&#'&#&$(.6$."L"#E'1$"#F+1G$%$#.'+F'.6$"1'"4$&,(I'

?+J'.6$#2'"#'.6$'F&G$'+F'&#'+HH1$(("*$'(.1-G.-1$'+F'"#4-(.1"&,'G&H".&,"(%2'&1$'J$'.+'1$("(.'
&#4'1$*+,.'.61+-E6'G"#$%&\'8$#@&%"#N('4"(."#G.'-($'+F'.6$'.J+'I$1%&#'J+14('F+1'TK+45N'6$,H('
-('$QH,&"#/'P^$"K'.6$1$'1F1('.+'.6$'K+45'&('".'K$,+#E('.+'&#4'&-E%$#.('T.6$'K+45'+F'
6-%&#M"#4N'&#4'&('(-G6'"('&K,$2'.6&#M('.+'.$G6#+,+E52'.+'"#G,-4$'$*$#'#&.-1$ i .6$'"#&#"%&.$2'
H,&#.2'&#4'&#"%&, i "#.+'&'-#".5'+F',"F$'+#'$&1.6I'km1H$12'K5'G+#.1&(.2'1$F$1('.+'.6$'"#4"*"4-&.$42'
($#."$#.2'&#4'F"#".$'K$"#E'J6+($'T(+,".&1"#$(("('#+.6"#E'K-.'.6$'G+#(G"+-(#$(('+F"'.('4"1$G.'
4H#4$#G$'+#'I+4NR'A?&#($#2'gCI'0##$1*&."+#'+F'.6$'K+45'6$1$'$G,"H($('.6$'"#.$1&G."+#'
K$.J$$#'@-(.'&'("#E,$'K$"#E'.+'K$G+%$'&'G+,,$G."*$'F+1G$'+F'1$*+,-."+#/'

P)$*+,-."+#('&1$'"##$1*&."+#('+F'.6$'G+,,$G."*$ i +12'%+1$'H1$G"($,52'$FF+1.('&.'"##$1*&."+#'+#'.6$'H&1.'+F'.6$'#$J2'
6"(.+1"G&,,5'-#"[-$'G+,,$G."*$'J6"G6'6&("'.('+1E&#("'#'.6$'($G+#4'.$G6#+,+E5I'D6"('($G+#4'.$G6#+,+E5'"('&'(5(.$%'"#'
J6"G6'.6$'%&(.$15'+F'$,$%$#.&15'(+G"&,'F+1G$("'('&'H1$G+#4"."+#'F+1'H,&5"#E'W4&('7H"$,X'J".6'#&.-1&,'F+1G$(I'0-(.'&('&'
G6",4',$&1#('.+'E1&(H'K5'(.1$.G6"#E'+-.'6"('6&#4'F+1'.6$'%++#'&('".'J+-,4'F+1'&'K&,,2'(+'6-%&#".52'"#'".('$FF+1.('&.'
"##$1*&."+#2'($.('".('("E6.('&('%-G6'+#'H1$($#.,5'(.",,'-.+H"&#'E+&,('&('+#'E+&,('J".6"#'1$&G6IR''A?&#($#2'BhC'

b#,"M$'H(5G6+,+E"(.('(-G6'&('^&G&#'A+1'8$,,$1C2'8$#@&%"#'($$('.6"('%"(G+E#"."+#'&('&'H+("."*$'
F+1G$'.6&.'H1+*+M$('&'($#($'+F'H,&5'J".6'&'.$G6#+,+E"G&,,5'4+%"#&.$4'J+1,42'&'J&5'.+'#$E+."&.$'
&'-.+H"&#'"4$&,'J".6'&#'"%H$1F$G.'%+4$1#".5I'D6$'"#.$E1&."+#'+F'.$G6#+,+E5'"#.+'+-1'%+4$1#'
J+1,42'".'6&('.+'K$'(&"42'"('&#'"11$*$1("K,$'F+1G$>'+-1'G+%H-.$1('&1$'E+"#E'#+J6$1$I'85'$Q.$#("+#2'
8$#@&%"#'1$G+E#"L$('.6$'"%H+1.&#G$'-("#E'.6$($'.$G6#+,+E"$('"#'+14$1'.+'H1+*"4$'&'1$("(.&#G$'
.+'.6$'1$"E#'+F'+HH1$(("*$'%+4$1#".5'&#4'G&H".&,"(%/'.6$'$H".+%$'+F'.6$'*&,-$'"#'($G+#4'
.$G6#+,+E"$(I'?+J'4+$('%+4$1#'G"#$%&2'.6$#2'-($'.6$($'.$G6#"[-$('+F'"##$1*&."+#'.+'

1$"%&E"#$'.6$'J+1,4'&1+-#4'-('"#'G+,,$G."*$'1$*+,-."+#\'

8&115'0$#M"#(ℕ'*E**)/'6$4'AehB=C'.$,,('.6$'G+%"#E'+F'&E$'(.+15'+F'&'E&5'K,&GM'%&#2'!6"1+#2'"#'%+4$1#'^"K$1.5'!".52'S,+1"4&I'D6$'#&11&."*$'"('H1$($#.$4'"#'.61$$'H&1.('+F'!6"1+#ℕ(',"F$2'F1+%'&'5+-#E'K+52'.+'&'.$$#&E$12'&#4'.6$#'&4-,.2'&('6$'(.1-EE,$('J".6'6"('($Q-&,".52'"4$#.".52'&#4'H65("G&,'&#4'$%+."+#&,'&K-($I'?+J$*$12'.6$'F",%'($.('".($,F'&H&1.'K5'-("#E'.61$$'4"FF1#.'&G.+1('.+'H,&5'.6$'G+11$(H+#4"#E'&E$('+F'&'("#E,$'G6&1&G.$12'&#4'&('(-G62'4"1$G.,5'-.","L$('&#4'$%K+4"$('F1&E%$#.&."+#I'D6$'"#.$1."..,$('H1$G$4"#E'.6$'F",%ℕ('.61$$'H&1.(2'F+1'$Q&%H,$2'&1$'&,,'+F'.6$'4"FF1#.'#&%$('-($4'F+1'!6"1+#'A^"..,$2'!6"1+#2'8,&GMCI'8$,,$1'%"E6.'($$'.6"('&('&'G+%H,$.$'(61$44"#E'+F'.6$'&G.+1(ℕ'(-K@$G."*".52'&#4'*"$J'.6$%'"#(.$&4'&('F1&E%$#.$4'K$"#EA(C2'(-K($1*"$#.'.+'.6$'E&L$'+F'.6$'&-4"$#G$'.+'1$&(($%K,$2'("%",&1'.+'P.6$'&-4"$#G$'H,&5"#E'.6$'1+,$'+F'H(5G6+&#&,5(.R'A8$,,$12'fBC'&('.6$5'&1$'"#'

9 +1M(' ! ".$4'

'

8$,,$12'0+#&.6&#I'P`&.6+,+E"(."G('+F' : . .$#."+#IR'*J'(1*. &(%2'*+,I'<f2'#+I'B2'ehB<2'HHI' ; =oYBI'

'

! -K". .2'7$&#I'P]G+>3$4"&."+#IR'*K') '4%! E%0', L!D) 2'&*) : %) 4, /!M : 5/'1, 4'*) (!*3!J'6'4, /!#%1$) */*6'%(2'

j -M$'b#"*$1(".5'`1$((2'ehBY2'HHI'BoBeI'

'

P 3 "(.&M"#E'.6$' 3 ++#'F+1'&'8&,,IR'*C') % : , !,) 0!D85%&'%) 1%L!F'%63&'%0!G&, 1, . %&<! N , /4%&!O%) P, : ') <!

,) 0!#$%*0*&! N ?!B0*&) *2'K5' 3 "1"&%'?&#($#2'b#"*$1(".5'+F' ! &,"F+1#"&'`1$((2'ehBeI''

'

E **) /'6$4I' j "1$G.$4'K5'8&115'0$#M"#(2!H$1F+1%&#G$('K5'D1$*$#.$') 6+4$(2' : (6.+#'7&#4$1(2'&#4'

: ,$Q'?"KK$1.2' : e ; 2'ehB=I'

'

`"(.$1(2'`&.1"G"&I'P c1G6$(.1&."+#'+F'.6$'7$#($('"#'V$,,+ J /'] "($#(.$"#p('S+-1.6' j "%$#("+#2'

3 $%+152'&#4' 3 "11+1>D+-G6'75#&$(.6$("&IR'*E '&&*&>#* . 1$!F-) , %(4$%(', L!#$&%($*/0(!*3!D : 5, 4$-!

+ '4$!B&42'K5' j &1"&' 3 &1."#2' cQF+14'b#"*$1(".5'`1$((2'ehBa'

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