- *\$; \$*+\$)*!4+!% / 1||*!-0&!64; <8*!'&!"4&2'\$)B! F-)-66-B!4*!0\$33!4*!4+!4..'3'4+\$5!64; <8*\$*! '&!Q<4'&B!R)4&6\$B!4&5!66\$34&59!!
- : \$!4)\$! F 4'&\$H*!3\$45'&2!<) ('5\$)!-.!#\$43+#64)\$!<) -.\$**'-&43*9!S..\$)'&2!-8)!*+4+\$H*!-&3,!
 ; \$5'643!*6#--3!4&5! / -)+#\$)&! / \$0!1&234&5H*!-&3,!5\$&+43!*6#--38!4*!0\$33!4*!<)-2)4; *!'&!
 <#4); 46,B!&8)*'&2B!4&5!4!)4&2\$!-.!-+#\$)!#\$43+#!<)-.\$**'-&*B!% / 1!<34,*!4!3\$45'&2!)-3\$!'&!
 ; \$\$+'&2!+#\$!#\$43+#!64)\$!&\$\$5*!-.!8&5\$)*\$)(\$5!6-;; 8&'+'\$*!+#)-82#-8+!+#\$! / -)+#\$4*+!4&5!
 A\$,-&59!!

•

#\$43+#!*6'\$&6\$*!64; <8*!+#\$)\$!0#'3\$!6)\$4+'&2!4!&\$0!('*'-&!.-)!-8)!P'55\$.-)5!]4; <8*!2)-8&5\$5!'&!+#\$!3'A\$)43!4)+*B!*6'\$&6\$*B!4&5!A8*'&\$**!5'*6'<3'&\$*9!!

 $a*!0\$!)\$.3\$6+!-\&!-8)!<)-2)\$**!+-!54+\$B!+\#\$)\$H*!4!E\$,!+\#)\$45!+\#4+!)8\&*!+\#)-82\#-8+!\$46\#!-.!+\#\$!*'J!<<)'-)'+'\$*!-.!-8)!<34&N!<)-('5'&2!+)4&*.-); 4+'-&43!3\$4)&'&2!\$J<\$)'\$&6\$*!+-!-8)!*+85\$&+*9!6&!-&\$!$\\04,!-)!4&-+\#\$)B!5')\$6+3,!-)!'&5')\$6+3,B!\$(\$),+\#'&2!0\$!5-!+-86\#\$*!-&!+\#'*!-(\$)4)6\#'&2!+\#\$; \$9!6+!$\\0'33!A\$!'; <\$)4+'(\$!+\#4+!0\$!E\$\$<!-8)!\$,\$!-&!+\#'*!/-)+\#!Q+4)!4*!0\$!+8)&!-8)!4++$&+'-&!+-!+$!&$J+!$*+$<*!'&!-8)!*+)4+$2'6!0-)E9!$

: \$!0'33!3\$(\$)42\$!-8)!.-8&54+'-&43!*+)\$&2+#*!+-N!!

- 1J<4&5!46+'(\$!4&5!6-334A-)4+'(\$!+\$46#'&2!4&5!3\$4)&'&2!+#)-82#!<\$542-2'643!'&&-(4+'-&!4&5!\$&6\$5!+\$6#&-3-2'\$*c!!
- 1&6\$!-8)!6-;;'+;\$&+!+-!\$J<\$)'\$&+'43!3\$4)&'&2c!!
-])\$4+\$!\$(\$&!; -)\$!-<<-)+8&'+'\$*!.-)!*+85\$&+*\$!.4683+,\$!4&5!<)-.\$**'-&43!*+4..!+-!0-)E! +-2\$+#\$)!46)-**!4645\$; '6!5'*6'<3'&\$*!4&5!<)-.\$**'-&43!<)-2)4; *c!4&5!
- a 54<+!4&5!*643\$!8<!+#\$!*-38+'-&*!0\$!.'&5!+-!6#433\$&2\$*!.46'&2!3-643!6-;; 8&'+'\$*!'&!-)5\$)! +-!455)\$**!*'; '34)!6#433\$&2\$*!4)-8&5!+#\$!23-A\$9!!

G&*<')\$5!A,!+#'*!('*'-&!4&5!28'5\$5!A,!+#'*!<34&B!% / 1!0'33!\$;<-0\$)!*+85\$&+*!+-!4&+'6'<4+\$!4&5!;\$\$+!+#\$!6#433\$&2\$*!-.!+#'*!&\$0!0-)35!4&5!+-!A\$6-;\$!46+'(\$!3\$45\$)*!'&!6)\$4+'&2!'+*!.8+8)\$9!!

% / 1!C!.-)!+#\$!#\$43+#!-.!-8)!0-)359!

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63#&$7).'()3**,&8!
Q-38+'-&*!+-!+#$!6-; <3$J!4&5!(4)'$5!6#433$&2$*!0$!.46$!'&!-8)!<$)*-&43!4&5!<)-.$**'-&43!3'($*B!
-8)!6-;;8&'+'$*B!4&5!*-6'$+,!0'33!&-+!A$!.-8&5!'&!4&,!*'&23$!5'*6'<3'&$B!6-33$2$B!<#,*'643!
3-64+'-&B!-)!'&5'('58439!"#8*B!-8)!4A'3'+,!+-!; -($!$4*'3,!46)-**!*86#!A-8&54)'$*!'&!-)5$)!+-!
6-334A-)4+\$!0'+\#!6-33\$428\$^!; 4E\$^!8^!A\$++\$)!<)-A3\$; !^*-3(\$)^*!4\&5!; -)\$!3'E\$3, !^+-!^*866\$5!'\&!
0#4+$($)!($&+8)$*!0$!8&5$)+4E$9!!
9\%7)\&.\&8':-\%).:<\%)\%''
: $!A$3'$($!+#4+!+$46#'&2!4&5!3$4)&'&2!*#-835!-668)!A$, -&5!+)45'+'-&43!634**)--; *!4&5!
34A-)4+-)'$*! C!'&!4&,!<346$!)'<$!.-)!'&b8'),!4&5!$J<$)'; $&+4+'-&B!'&6385'&2!63'&'6*B!
$&(')-&;$&+43!4&5!.'$350*+85,!*'+$*B!-&3'&$!.-)8;*B!3'A)4)'$*B!;8*$8;*B!+#$4+$)*B!4&5!<346$*!-.!
6'('6!$&242$;$&+B!4;-&2!;4&,!-+#$)*9!!
=)38)%**,-%'(<7&8%''
: $!4)$!&-+!4.)4'5!+-!+4E$!+#-82#+.83!)'*E*!'&!+#$!<8)*8'+!-.!-8)!*#4)$5!2-43*9!$8)!; '&5*$+!'*!+-!
*+)4+$2'6433,!.-)$64*+!4&5!<34&!.-)!<-**'A'3'+'$*!'&!4&!8&E&-0&!.8+8)$9!!
!"%;7)$*<,>'3?'@#)'=27&%"''
: $!4)$!6-;; '++$5!+-!<)-;-+'&2!$&(')-&;$&+438!*-6'438!4&5!$6-&-;'6!0$330A$'&2!+-!';<)-($!+#$!
#$43+#!-.!'&5'('5843*B!6-;;8&'+'$*B!4&5!$6-*,*+$;*9
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!
                       G9=9?!1&#4&6$!+#$!'&+$2)4+'-&!-.!*+85$&+*!4&5!.4683+.!.)-;!+#$!1-33$2$!-.!S*+$-<4+#'6!
                        F$5'6'&$!'&+-!+#$!'&+$)<)-.$**'-&43!*'; 834+'-&!4&5!*'; 834+'-&!3$4)&'&2!46+'('+'$*!-&!+#$!
                       U-)+34\&5!14:<8*!.-)!+#$! $43+#!06'$&6$*9!
!
                       G9=9=!S..$)!'&6$&+'($*!.-)!.4683+,B!<)-.$**'-&43!*+4..B!4&5!*+85$&+*!+-!$&242$!'&!
                        '&+$)<)-.$**'-&43!+$46#'&2!4&5!*6#-34)*#'<!+#4+!455)$**!)$2'-&43B!&4+'-&43B!4&5!23-A43!
                       '**8$*!-.!':<-)+4&6$9!!
                       G9=9[!`$($3-<!4!*#4)$5!; -5$3!4&5!34&2842$!.-)!'&+$)<)-.$**'-&43!$5864+'-&43!4<<)-46#$*!
                       A4*$5!-&!6-;;-&!6-;<$+$&6'$*!4&5!(438$*9!!!!
                       69=9e!65$&+'..!4&5!$&#4&6$!'&+$)<)-.$**'-&43!<)46+'6$!TGUUV!-<<-)+8&'+'$*!A$+0$$&!.4683+,!
                        ;$; A$)*!'&!63'&'643!$5864+'-&!$&(')-&;$&+*!+-!'&6)$4*$!*+85$&+!$&242$;$&+!'&!GUU9!!
                       69=9f!1J<4&5!+#$!'&+$2)4+'-&!-.!+$\)<\rightarrow$-.\!\&+$\)<\rightarrow$-.\!\&+$\!\&+$\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\!\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\\&+$\!\&+$\!\\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+$\!\&+
                       68))'6838;9!!
                                                                                                                                                                                                                                                                         !
!
                       69[9?!R8)+#$)!5$($3-<!4!6$&+)43'Y$5!<)-6$**!+-!+)46E!$J<$)'$&+'43!3$4)&'&2B!'&6385'&2!A-+#!
                       b84&+'+4+'($!4&5!b843'+4+'($!T$929!!*+85$&+!*+-)'$*!4A-8+!+#$')!$J<$)'$&6$*V!54+4B!+#4+!0'33!
                        '&.-); !+#$!.8)+#$)!5$($3-<; $&+!4&5!2)-0+#!-.!$J<$)'$&+'43!3$4)&'&2!-<<-)+8&'+'$*!4&5!A$!
                       8*$5!+-!-<+'; 'Y$!; 4+6#'&2!*+85$&+*!+-!+#-*$!-<<-)+8&'+'$*9!!
!
                       09[9=!] - &+'&8$!+-!683+'(4+$!'&&-(4+'($!<4)+&$)*#'<*!0'+#!-)24&'Y4+'-&*!'&!+#$!<)'(4+$B!
                       <8A3'6B!4&5!&-+0.-)0<)-.'+!*$6+-)*!+#4+!0'33!'&6)$4*$!-<<-)+8&'+'$*!.-)!$J<$)'$&+'43!3$4)&'&2!
                        '&!+#$!*$)('6$!-.!A-+#!5'*6'<3'&4),!4&5!'&+$)5'*6'<3'&4),!4645$; '6!<)-2)4; *9!
                       !
                       (9)[9][188]+#$)!5$($3-<!)$*-8)6$*!4&5!$($&+*!+-!#$3<!.4683+,B!*+85$&+*B!4&5!<)-.$**'-&43!*+4..!
                       <>-; -+$!)$6-2&'+'-&!-.!$J<$)'$&+'43!3$4)&'&2!-<<-)+8&'+'$*!+#4+!*8<<-)+!+#$!5$($3-<; $&+!
                        -.!E&-O3$52$B!#4A'+*!-.!; '&5B!<)-.$**'-&43!6-; <$+$&6'$*B!4&5!+#$!+)4'+*!-.!4&!454<+'($B!
                       3'.$3-&2!3$4)&$)9!!
                       69[9e!6.5] + 14.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.5 = 6.
                        *+4..B!4&5!% / 1H*!$J<$)'$&+'4303$4)&'&2!<4)+&$)*!+-!T4V!$&*8)$!+#4+!+#$!&$$5*!-.!$; <3-,$)*!
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 $a ++)46+ ^{4} & ^{2} & ^{1} & ^{4} & ^{4} & ^{2} & ^{1} & ^{4} & ^{4} & ^{2} & ^{2} & ^{4} & ^{2} & ^{2} & ^{4} & ^{2} & ^{2} & ^{4}$

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669?9@!`$*'2&!4&5!*8*+4'&!+#$!'&*+'+8+'-&43!'&.)4*+)86+8)$!&$$5$!+-!)$43'Y$!$J<4&5$5!

0-)E.-)6$!5$($3-<;$&+!+)4'&'&2!4&5!6-&+'&8'&2!$5864+'-&9!!

!

669?9j!]-&+'&8-8*3,!)$.'&$!4&5!45(4&6$!%/1H*!*+85,!4A)-45!-<<-)+8&'+'$*!4*!4!E$,!

5'..$)$&+'4+-)!'&!<)-*<$6+'($!*+85$&+*H!5$6'*'-&!;4E'&29!!
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669=9?!P-3*+\$)!&\$0!4<<3'64+'-&*!4&5!,'\$35!.)-;!\$J'*+'&2!;4)E\$+*!+#)-82#!\$&6\$5!
45(\$)+'*'&2B!;4)E\$+'&2B!4&5!)\$6)8'+;\$&+!\$..-)+*!+#4+!\$;<#4*'Y\$!% / 1H*!6-;<\$33'&2!(438\$!
<)-<-*'+'-&!4&5!<)-2)4;;4+'6!5'*+'&6+'(\$&\$**9!!!

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GG9e9?!`\$3'(\$)!6-;<)\$#\$&*'(\$!45('*'&2!4<<)-46#\$*!+#4+!'&+\$2)4+\$!.4683+,B!<)-.\$**'-&43!
*+4..B!4&5!*8<<-)+!*\$)('6\$*!+-!<)-('5\$!4!6-&+'&88;!-.!4**'*+4&6\$!+4'3-)\$5!+-!\$46#!*+85\$&+!
4&5!4645\$; '6!<)-2)4;9!

669e9=! a **\$**!4&5!)\$.'&\$!68))\$&+!4645\$; '6!4&5!<\$)*-&43!*8<<-)+!*\$)('6\$*!4&5!5\$(\$3-<!&\$0!'&'+'4+'(\$*!A4*\$5!-&!4&43,*\$*!-.!% / 1!54+4!4&5!&4+'-&43!A\$*+!<)46+'6\$*9!

GG9e9[!G; <3\$; \$&+!6-;; 8&'64+'-&!; -543'+'\$*!+#4+!\$&*8)\$!*+85\$&+*B!.4683+,B!4&5! <)-.\$**'-&43!*+4..!\$J6#4&2\$!'&.-); 4+'-&!\$..\$6+'(\$3,!4A-8+!*+85\$&+0*8<<-)+!*\$)('6\$*!C! +#\$')!'; <-)+4&6\$B!<8)<-*\$*B!4(4'34A'3'+,B!+'; '&2B!4&5!466\$**'A'3'+,9!!

!

 $:\$!4)\$!4!6-334A-)4+'(\$!6-; ;8\&'+,!-.!*6\#-34)*!!\#4+!(438\$*!433!.-); *!-.!*6\#-34)3,!'\&b8'),9!S8)!\\ *+85\$\&+*!4\&5!.4683+,!<8)*8\$!)\$*$4)6\#!4\&5!*6\#-34)*\#'<!!\#4+!'*!'\&+\$33\$6+8433,!*+'; 834+'&2B!)\$2'-&433,!\\ \$*<-\&*'(\$B!4\&5!23-A433,!)\$3\$(4\&+9!:\$!6-\&.)-\&+!+\#\$!; -*+!<)\$**'\&2!6\#433\$\&2\$*!-.!-8)!*-6'\$+,!\\ +\#)-82\#!.-8\&54+'-&43B!+)4\&*34+'-&43B!4&5!'&+\$)5'*6'<3'&4),!4<<)-46\#\$*!+-!'&b8'),9!G\&!455'+'-&!+-!+\#\$!\\ 6-&+)'A8+'-&*!-8)!.4683+,!; 4E\$!+-!.8\&54; \$&+43!5'*6-(\$)'\$*!4\&5!+-!*-3('&2!+\#*\$!<)-A3\$; *B!+\#\$,!\\ \$&242\$!8\&5\$)2)4584+$B!2)4584+$B!4&5!<)-.$**'-&43!*+85$&+*!5')$6+3,!'&!+#'*!0-)EB!; 4E'&2!)$*$4)6#!\\ 4&5!*6\#-34)*\#'<!\$**$&+'43!<4)+*!-.!*+85$&+*H!$5864+'-&43!$J<\$)'$&6$9!''#'*!$J<-*8)$!+-!+#$!#4&5*0-&!6)$4+'-&!4&5!4<<3'64+'-&!-.!E&-03$52$!<)$<4)$*!%/1!*+85$&+*!.-)!*866$**!'&!64)$$)*!4&5!\\ 2)4584+$!*+85,!4&5!4*!)$*<-&*'A3\$!6'+'Y$&*9!!}$

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!
6669=9?!6&6)$4*$!4&5!';<)-($!+#$!'&+$2)4+'-&!-.!)$*$4)6#!'&+-!68))'6834!4&5!0'+#!
$J<$)'$&+'43!3$4)&'&2!%&'($)*'+,00'5$9!
6669=9=9!1J<4&5!*+85$&+!'&(-3($;$&+!'&!)$*$4)6#!+#)-82#!6-334A-)4+'-&!0'+#!+#$!S..'6$!-.!
G&&- (4+'-&9!!
GGG9=9[!U)-('5$!;-)$!)$*$4)6#!4&5!*6#-34)*#'<!-<<-)+8&'+'$*!+#4+!4)$!6)$5'+0A$4)'&2!-)!
-..$)$5!4*!<4'5!.$33-0*#'<*9!!
GGG=9e!1&6-8)42$!-<$&!*#4)'&2!-.!E&-03$52$B!-<$&!*6'$&6$B!4&5!-<$&!466$**!<8A3'*#'&2!
+-!<)-;-+$!)$*$4)6#!4&5!*6#-34)*#'<!;-)$!A)-453,9!
GGG9=9f!1*+4A3'*#!'&6$&+'($*!.-)!*+85$&+*!+-!5'**$; '&4+$!+#$!)$*83+*!-.!+#$')!)$*$4)6#!4&5!
*6#-34)*#'<!+-!% / 1!.4683+,!4&5!*+85$&+*c!4; -&2!4645$; '6!4&5!5'*6'<3'&4),!4**-6'4+'-&*!
$J+$)&433,c!4&5!+-!<-3'6,;4E$)*B!<8A3'6!42$&6'$*B!*-6'43!*$)('6$!-)24&'Y4+'-&*B!4&5!-+#$)!
)$3$(4&+!6-;;8&'+'$*9!!
GGG9=9g!1*+4A3'*#!'&+$&*'($!*8;;$)!)$*$4)6#!6-8)*$*!8+'3'Y'&2!+#$!6-)$!)$*$4)6#!.46'3'+'$*!
.8&5$5!A,!+#$!.$5$)43! ] $&+$)*!-.!P'-; $5'643!W$*$4)6#!1J6$33$&6$9!!
6669=9i!1J<4&5!2)4584+$!<)-2)4;!-..$)'&2*B!'&6385'&2!466$3$)4+$5!-<+'-&*!.-)!
8&5$)2)4584+$!*+85$&+*!4&5!5843!5$2)$$!-<+'-&*9!!
GGG9=9@!1J<3-)$!+#$!5$($3-<;$&+!-.!4!U#9`9!<)-2)4;!'&!P'-;$5'643!Q6'$&6$*!0'+#!5843!
5$2)$$!-<+'-&*!T$929B!\\9$9!<38*!U#9\\9\9!!
6669=91!1)$4+$!4!)-A8*+!8&5$)2)4584+$!#-&-)*!+#$*'*!<)-2)4;!.-)!$46#!;47-)9!!
GGG9=9?>!`$($3-<!'&&-(4+'($!34A-)4+-),!6-8)*$*h34A-)4+-),!*$6+'-&*!'&!43)$45,!$*+4A3'*#$5!
6-8)*$*9!!
GGG9=9??!G&6)$4*$!5'($)*'+,!'&!34A-)4+-)'$*!A,!6)$4+'&2!<)-2)4;*!+-!)$6)8'+!4&5!)$+4'&!
8&5$))$<)$*$&+$5!; '&-)'+,!4&5!U$33!^)4&+0$3'2'A3$!*+85$&+*9!!
                                   1
GGG9[9?!Q+)$&2+#$&!<-3'6'$*B!<)-6$**$*B!4&5!*8*+4'&4A3$!'&.)4*+)86+8)$!T$929B!A)'52$!!
.8&5'&2B!)$*$4)6#!*<46$B!*+4)+08<!<46E42$*B!6-)$!.46'3'+'$*B!)$*$4)6#!;$+#-5-3-2.B!4&5!
*+4+'*+'6*!*8<<-)+\!+#4+!*8<<-)+!.4683+,!*866$**!'&!*6#-34)3,!46+'('+'$*9!!
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GGG9[9=!1*+4A3'*#!4!<)-2)4;!.-)!.4683+,!;\$&+-)*#'<!4&5!<)-.\$**'-&43!5\$(\$3-<;\$&+!'&!)\$*\$4)6#!+-!'&6385\$!2)4&+!0)'+'&2B!2)4&+!;4&42\$;\$&+B!4&5!*+)4+\$2'\$*!.-)!*\$\$E'&2!.8&5'&2!.-<<-)+8&'+'\$*!.-)!A'-;\$5'643B!*-6'43

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!
6669[9[!]--)5'&4+$!+$&8)$0+)46E!.4683+,!#')'&2!4;-&2!5$<4)+;$&+*!4&5!6-33$2$*!'&!-)5$)!+-!
.46'3'+4+$!'&+$)5'*6'<3'&4),!)$*$4)6#!'&!4)$4*!-.!*+)4+$2'6!.-68*9!!
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G\9?9[9!1&#4&6$!+#$!4++)46+'-&B!)$6)8'+; $&+B!4&5!)$+$&+'-&!-.!4!5'($)*$!.4683+,!4&5!
<)-.$**'-&43!*+4..!43-&2!(4)'-8*!5'; $&*'-&*!-.!#8; 4&!5'..$)$&6$9!!
!
G\9?9e!a**$**!4&5!$&#4&6$!-8)!6-334A-)4+'-&!O'+#!5'($)*$!6-; ; 8&'+,!; $; A$)*!4&5!
<4)+&$)*9!!
!

G\9=9?!a**$**!+#$!64; <8*!63'; 4+$!<$)'-5'6433, B!*#4)$!.'&5'&2*!O'+#!+#$!64; <8*!
6-; ; 8&'+,B!4&5!$&242$!)$3$(4&+!6-&*+'+8$&6'$*!'&!$..-)+*!+-!'; <)-($!64; <8*!63'; 4+$!O#$&!24<*!4)$!&-+$59!!
!
G\9=9:!1&242$!.4683+,!4&5!<)-.$**'-&43!*+4..!'&!+#$!<$)'-5'6!4**$**; $&+!-.!5'($)*'+,B!$&B'+,B!4&5!'&638*'-&!'&'+4+'($*!4&5!A)-453,!*#4)$!.'&5'&2*9!!
!
G\9=9[!S..$)!)-A8*+!<)-.$**'-&43!5$($3-<; $&+!.-)!.4683+,!4&5!<)-.$**'-&43!*+4..!+#4+!
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\9?9?!G&6)$4*$!+#$!&8; A$)!-.!8&5$)2)4584+$!*+85$&+*!0#-!*+85,!4A)-45!+#)-82#!*$; $*+$)!
       <)-2)4; *B!0'+#!4!<4)+'6834)!.-68*!-&!% / 1H*!"4&2'$)! ] 4; <8*!4&5!<4)+&$)!<)-2)4; *!'&!
       R)4&6$B!Q<4'&B!4&5!G6$34&5B!O#'3$!$J<3-)'&2!&$O!*+85,!4A)-45!<4)+&$)*#'<*9!!
!
       \9?9=!1J<4&5!-<<-)+8&'+'$*!.-)!2)4584+$!4&5!'&+$)<)-.$**'-&43!*+85$&+!$J<$)'$&6$*!
       4A)-459!!
       \9?9[!`$($3-<!&$0!.-); *!-.B!4&5!($&8$*!.-)B!23-A43!4&5!'&+$)683+8)43!$J6#4&2$*B!*86#!4*!
       '&+$)&4+'-&43!)-+4+'-&*!4&5!<)46+'64B!$J<$)'$&+'43!3$4)&'&2!'&!5-;$*+'6!6-;;8&'+'$*!+#4+!
       4)$!683+8)433,!4&5!3'&28'*+'6433,!5'($)*$B!6)$5'+0A$4)'&2!'&+$)&*#'<*!4A)-45B!4&5!*'; '34)!
       '&'+'4+'($*9!!
       \ 9?9e!G&6)$4*$!+#$!&8; A$)!-.!'&+$)&4+'-&43!*+85$&+*!0#-!*+85,!4+!% / 1B!A-+#!'&!
       ; 4+)'6834+$5!5$2)$$!<)-2)4; *!4&5!4*!*#-)+0+$); B!('*'+'&2!*+85$&+*9!!
                             !!
!
       \ 9=9?!R8\)+#$\)!5$($3-<!4&5!.-\); 43'Y$!; $4&'&2.83!\}*$4\)6#B!*6#-34\)*#'<B!6'('6!$&242$; $&+B!
       4&5!$J<$)'$&+'43!3$4)&'&2!-<<-)+8&'+'$*!.-)!% / 1H*!*+85$&+*B!.4683+,B!4&5!<)-.$**'-&43!*+4..!
       +#4+!*8<<-)+!-&2-'&2!$&242$;$&+*!0'+#!-8)!6-;;8&'+'$*9!!
       \ 9=9=! ] -&+'&8-8*3,!)$.'&$!-8)!6-; <)$#$&*'($!4&5!6--)5'&4+$5!4<<)-46#$*!+-!5$($3-<!
       &$0!4&5!&8)+8)$!$J'*+'&2!63'&'643!*'+$!<346$; $&+*!.-)!433!-.!+#$!%&'($)*'+,H*!#$43+#!
       <)-.$**'-&*!<)-2)4; *9!!!!
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 $\begin{tabular}{l} $$ 9[9=!1J<4\&5!-<-)+8\&'+'\$*!.-)!\% / 1!438; \&'!+-!6-\&\&\$6+!0'+\#!-\&\$!4\&-+\#\$)!4\&5!0'+\#!+\#\$! \\ \%\&'(\$)*'+,!4)-8\&5!4)\$4*!-.!6-; ;-\&!'\&+\$)\$*+9!! \\ \end{tabular}$

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\(09?9=!_-&\$!.'&4&6'43!<-3'6'\\$\!<)-6\\$58\\\$\!!<)-6\\$**\\$\!4\\$5!*,*+\\$;*!+\\$\\$2+\\$\\$!-8\!.'\\$643!;4\\$42\\$;\\$\\$+!;-5\\$3!\0\\$\'3\\$!\\$\\$\\$\)'\\$2!<)-<\\$\!466-8\\$\4A'3'+,!4\\$!\0\\$33!\4\\$!'\&*+'+8+'-\\$43!\4\\$5!\8\\$'+03\\$(\\$3!.3\\$\J'A'3'+,9!!

 $\begin{tabular}{l} $$ (9e9f!U4)+&$)!0'+\#!\% / 1!4645\$; '6!4&5!45 ; '&'*+)4+'(\$!8\&'+*!+-!\$\&\#4\&6\$!6- ; ; 8\&'64+'-&! ; -543'+'\$*!+\#)-82\#-8+!+\#\$!\%\&'(\$)*'+,!4\&5!+-!\$\&*8)\$!+\#\$!8*\$!-.!6-\&*'*+\$\&+! ; \$**42\$*!4\&5!+-!\$&43*!+\#)-82\#-8+!+\#\$!\%\&'(\$)*'+,9!! \end{tabular}$

\ G9e9g!G&6)\$4*\$!+#\$!*643\$!