



" #\$\$%&! '\$' ()%!*#+, !%-&!' +, &' ./!' +#0\$' 1!2#+) (!+! !
 3\$' 4' 5\$' 1!*+#!6&7&8+ (, &' %?!%+!%-&!:' !#+)' ; !+*!<)=/%4' %\$7&!>' *+#, 48!<&/\$+' /!"
 #\$\$%"&' ()**+', '!' -". \$/\$O1\$("-2! 3"

"

. \$4("5' 6' 7(418\$"/' 9: 4/;8;,4,' (<" =",>\$"?(?4(4,' (@"?(' /\$<<="= (' ,>\$"A>;(B"06,\$(64,;' 648"
 D' 6=\$(\$6/\$" 6": ;646/;6E"=' (" . \$F\$8' ?O\$6,"G' F\$(6O\$6,". \$8\$E4,\$<"46B"DHI <"/' 88\$4E7\$<"

"

5\$(\$1@"" ,>\$" J ' O\$6K<" J ' ');6E" G(' 7?' ' 6": ;646/;6E"=' (" . \$F\$8' ?O\$6,"LJ J G" ' 6": =. M"
 %' 78B"8;) \$, ' <7OO;," ;"@' 7("4,, \$6,;' 6"=\$%"/' OO\$6,<"(\$E4(B:6E",>\$/' 6F\$(<4,;' 6">)\$8B"
 ,>;<"%\$\$)"B7(;6E",>\$"-6B"

"

!"

,>\$"%4(=4(\$;6B7<,@=(' O"O;8;,4(Q\$B"<\$ /7(;,@, ' ">7O46"<\$ /7(;,@N

J \$">' ?\$,><%"(;,,\$6";6?7,">\$8?<"%;>"?(' F;B;6E"<' O\$" =, >\$<\$";6,\$(98;6)4E\$<N

\\$E4(B;6E" ,>\$" /' 6F\$(<4,;' 6<" 4(' 76B" ,>\$" '\$ %&# ' 4%\$+' 48! , + ' &%4#@! 4' ;! *\$' 4' 5\$48!
/@/%&, A!#&1)84%\$+' /!%+!=484' 5&!455&/!%+!5#&; \$%!B\$%-!*\$' 4' 5\$48!, 4#O&%!/%4=\$8\$%@!,>\$"
J J G" 6":. "<,\$<<\$<,>\$"=' 88' %;6E7"

A>\$" 6\$B!%+!/%#&' 1%-&' !%-&! 4)%-+#\$%@!+*!%-&! C' \$%&; !D4%\$+' /!ECDF!%+!8&4; !%-&!
' &5&/4#@! #1-%/G=4/&; ! (#+G; &7&8+ (, &' %! &5+' +, \$5! 4' ;!*\$' 4' 5\$48! #&*+ #, /" ;6"
?4(; /784(" (\$<?' 6B;6E" , " ;<<7\$<" ' =E8' 148" O4/(' \$/' 6' O;/?' 8;/@";6/87B;6E";<"<' /;48"
46B" \$/' 8' E;/48" B;O\$6<;' 6<N A>\$" =(4O\$%' ()) = ' (" \$6>46;/6E" ,>\$" /' >\$(\$6/\$" 46B"
/' 6<;<,\$6/@" ' =, >\$";6,\$(64,;' 648" O' 6\$,4(@" =;646;/48" 46B", (4B;6E"<@<,\$O<" ;6"<7??' (,"
' ="B\$F\$8' ?O\$6,("\$07;(\$<4"/' OO,;O\$6,;' "1(;6E;6E";6, " ,>\$"(71(/" " =, >\$"Y#" \$6,;;;\$<
<7/>" 4< ,>\$"]4<\$8" D' OO,;,\$\$%>\$(\$B\$F\$8' ?;6E"/' 76,(\$<" 4(\$' 6' , (\$?(\$<\$6,\$B" 17,"
%>' <\$ 4/;' 6<" 46B" B\$/;<;' 6<" >4F\$ 46" ;O?4/," ' 6" =;646;/48" O4())\$, <" 4<" %\$88" 4<" ;,"
?('; (;;Q;6E" ,>\$" ?(' O' ,;' 6" ' =<' /;48" ' 1\$\$/;F\$<" 46B" ?' 8;/;\$<" F\$(" 64((% =;646;/48"
' 1\$\$/;F\$<" 46B" 48<" " , " B\$O' / (4,;Q\$,>\$" E' F\$(646/\$" ' = ,>\$" F' ;6E" <@<,\$O" ;6"
;6,\$(64,;' 648" =;646;/48";6<;,7,;' 6<N

H&*+ #, ! 4' ;! #&1)84%\$+' ! +*! 18+=48! *\$' 4' 5\$48! , 4#O&%!/ 4' ;! %-&! '\$ %&# ' 4%\$+' 48!
*\$' 4' 5\$48!/@/%&, "4(\$";O?\$4,;F\$46B"7(E\$6,"<" ,>4,"=;</48"46B"O' 6\$,4(@?' 8;/;\$<"4(\$"
;6" 8;6\$" %;,>" >7O46" (;E>,<" <,46B4(B<" ;6/87B;6E" ?4(; /784(8@" \$/' 6' O;/'" <' /;48" 46B"
/78,7(48" (;E>,<" 46B"% O\$6K" (;E>,<"?(\$<\$ (F;6E" 64,;' 648" ?' 8;/@<?4/\$" , ' =78=8" ,>\$<\$"
(;E>,<N A>7<" = ' ("P4O?8\$"" = (\$;E6"B\$1, ("9?4@O\$6,<"<>' 78B"

>, (#+7&!5#&; \$%!#4%' 1!584//*\$54%\$+' !, &%-+; /",>(' 7E>",(46<?4(\$6,"O' 6;,' (:6E"" =
/(\$B;,"(4;6E"4E\$6/;\$<N"

T718;/8@9' %6\$B" B\$F\$8' ?O\$6," 146)<" <>' 78B" ?(' O' ,\$ 455&//! %+! *\$' 4' 5&! 4' ;!
=)/\$' &//! ; &7&8+(, &' %! /)=/\$; \$&!/! *+#! B+, &' ! 4' ;! B+, &' ! &' %#&(#&' &) #/""
\$<?\$;/488@" ;6"<O488" 46B" O\$B;7O"\$6,\$(?(:<\$<"" \$6<7(;6E" ,>4," ,>\$("<7??' (' <\$(F;/<6E"
46B" E' F\$(6O\$6," ?' 8;/;\$< 4(\$" ?7," ;6" ?84/\$" ;6" ' (B\$(" , " 4F' ;B' /(\$4;6E" 4" /@/8\$" ' =
;6B\$1,\$B6\$<<"46B"\$6418\$,">\$;("\$/' 6' O;/"\$O?' %\$(O\$6,"46B"47,' 6' O@!"

\\$E4(B;6E" ,>\$/' 6F\$(<4;,' 6<"4(' 76B!\$' %&# ' 4%\$+' 48!%4J!5++ (%\$+' !,>\$"J J G" 6" =. "
%' 78B"8;)"\$," '<,\$<<,">\$=" 88' %;6E7"

W//(' B;6E" , "T4(," -""W(," -"" =,">\$"C6,\$(64;,' 648"D' F\$646," ' 6"b/' 6' O;/""H' /;48" 46B"
D78,7(48"\;E>,"LCDbHD\M""H,4,\$<">4F\$,">\$"B7,@," ' "O' 1;8;Q\$,">\$"O4P;O7O"4F4;8418\$"
(\$<' 7(/\$<N" WO' 6E" ,>\$("\$ O\$4<7(\$<"" ,>:<" /46" 1\$" 4/>;\$F\$B" ,>(' 7E>" 5+ , =4%\$' 1!%4J!
&74/\$+' " 46B"4F' ;B46/\$" , " <71<,46; ;488@" ;6/(\$4<\$< ,4,\$" (\$F\$67\$" 46B"<' "?(' F;B\$,">\$"
6\$/\$<<4(@(\$<' 7(/\$<," " ;O?8\$O\$6,"?718;/?"? 8;/;\$<=" (' ,>\$" (\$48;Q4;,' 6" ' =,">\$" >7O46"
(;E>,<" = "488"" ;6/87B;6E"%' O\$6" 46B"E;(8;N" A4P" \$F4<;' 6" 46B"4F' ;B46/\$"6' , " 68@" 4=\$/,"
>' (:O' 6,48" \$O7;,@" 4<";6B;F;B748<" 46B" /' O?46;\$<%"%;>,">\$" <4O\$" /4?4/;,@," ' "?4@" 4(\$"
6' , /' 6, (;17; ;6E";6" ,>\$" <4O\$" %4@" 17," 48<" " (\$B7/\$<,">\$" (\$B;,< (;17; ;F\$;O?4/," " =, 4P"
?' 8;/@N": ' (" ;6<,46/\$""<,4,\$<(\$B7/\$" ,>\$; (" =;</48"(\$<' 7(/\$<""/' 6<\$O7\$6,8@" ,>\$@"8' <," ,>\$; ("
/4?41;8;,@' =<?\$6B" ;6/' O\$<" ;6' <' /;48" 46B" ?718;/<E' ' B<" 46B" <\$(F;/<N" W//(' B;6E" , "
,>\$"(\$?' (," " =,">\$"H?\$/;48"Y#" \4??' (,\$7(" 6"bP,(\$O\$"T' F\$(@"46B"57O46"\;E>,<""^,4P"
417<\$" 1@"/' (' ?' (4;,' 6<" 46B">;E>"6\$,9%' (,">";6B;F;B748<" = ' (/<"G' F\$(6O\$6,<," ' "(4;<\$"
(\$F\$67\$="(' O' ,>\$("<' 7(/\$<7" =,\$6" ,>(' 7E>") (\$E(\$<<;F\$,4P\$<"" ,>\$" 17(B\$6" ' = "%>;/>"

(;E>,<" 18;E4,;' 6<*"E\$6B\$("\$0748;,@"46B"\$6F;(' 6O\$6,48"<,46B4(B<||"

"

N-4#1&!%-&! CD! M4J! N+, , \$%%&&! B\$%-! #&7\$&B\$' 1! 4' ;! 4, &' ;\$' 1! \$%/! O+; &8! M4J!
M#&4%@" , " ?(' F;B\$" O' B\$8" 846E74E\$" ,>4, " <,\$6E,>\$6<" >' <," /' 76,(@" ?' <;,;' 6<" ' 6"
4??(' ?(;4,\$" ,\$(O<" /' 6/\$6;6E" 4??(' ?(;4,\$" 1;84,\$(48" ,4P" ,(\$4,O\$6," ' =" (\$<' 7(/\$"
\$P,(4/;,' 6*" \$P?' ('B\$F\$8' ?O\$6,"Q' 6\$*"46B": . C",4P"\$7(;<B;/;,' 6"46B"?4@O\$6,<||"

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: 7(>\$(O' (\$** ;," ;<" 6\$/\$<<4(@" , " 4; +(?! 4!, &5-4' \$/, ! *+#! 18+=48! 5++ (%\$+' !%+!
#&7&#/#&! %-&! P#45&! %+! %-&! =+%%+, Q! L

"

B&,\$(O;6\$%>\$(,\$' "7<\$=76B<=(\$B"=(' O"B\$1,"/46/\$884,; ' 6*" <7/>"4<*"=' (" ;6<,46/\$" , ' "
<7???' (, " E\$6B\$("\$0748;,@' ?(' E(4O<N' W" ,(46<?4(\$6," 4// ' 76,418\$ " 46B" B\$O' /(4,;/"
?('/ \$<<" ' =" B\$/;B;6E" ' 6" %>\$(,\$' " 7,;8;Q\$ " ,>\$="76B<" O7<," ;6/87B\$" ;69/' 76,(@" DHI <"
,>(' 7E>' 7," ,>\$" %>' 8\$ " ?('/ \$<<" %' O\$6K<" (;E>,<" ' (E46;Q4,;' 6<" ;6/87B\$B" H7/>" 4"
?('/ \$<<" 4," ,>\$" <4O\$" ,;O\$"" 18;E4,\$<"=;646/;48" ,(46<4/;;' 6<" , " (\$/' E6;Q\$ "46B"7?>' 8B"
,>\$" O7,748" (\$<?' 6<;1;8;,@" 46B" ' 18;E4,;' 6<" ' ="E' F\$(6O\$6,<" , " ?(' \$,," >7O46" (;E>,<"
\$6<7(\$ "E\$6B\$("\$0748;,@" 46B" %' O\$6K<" \$O?' %\$(O\$6," 46B" ?(' O' , "\$ \$6F;(' 6O\$6,48"
<7<,4;641;8;,@'"
"

H&1)84%&! %-&! *\$' 4' 5\$48! /&5%+#! %+! (#&7&' %! ()=8\$5! =4\$8+)%/! 4' ;! 4)/%&#\$\$%@!
, &4/) #&/N'A>\$">7O46" (;E>,<"F;' 84,;' 6<"46B"<' /;48"46B"E\$6B\$(" ;O?4/,<" ="47<,\$(;,@
' 8;/;\$<"46B"O\$4<7(\$<," " <7???' (,"B\$1," (\$<,(7/,7(;6E"<>' 78B"1\$"4F' ;B\$B" ,>(' 7E>," >\$"
;O?8\$O\$6,4,;' 6" " =/' 76,\$(9/@/8;/48"=;</48"46B"O' 6\$,4(@"? ' 8;/;\$<N"
"

\\$E4(B;6E" ,>\$" /' 6F\$(<4,;' 6<" + ' !%

;6;;4;;F\$<"?(' O' , \$B"1@", >\$"Y6;; \$B"#4, ;' 6<"H\$/(\$, 4(@9G\$6\$(48W

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X)=8\$5GX#\$74%&! X4#%' &#/-\$(/! EXXX/F! ,) /%! -47&! /%#+' 1! 5#%! 4//&//, &' %!
=4/&;! +! -), 4' ! # \$1-%/! +=8\$14%\$+' /! 4' ;! &' 7\$#+' , &' %48! /) /%4\$' 4=\$8\$%@!
/%4' ; 4#; /! 4/! B&88! 4/! &*&5%\$7&! 455+) ' %4=\$8\$%@! 4' ; ! #&1) 84%+#@! , &5-4' \$/ , /! C6"
?4(, ;/784("TTT<"<>' 78B"6' , "1\$"488' %\$B" , " <>(;6) , >\$" = ; </48" <?4/"6\$/\$<<4(@" ; " <, 4, \$<"
, " 4B' ? , " ; 6<, (7O\$6, <" = ' (" (\$F\$67\$ (4;<;6E" 46B" (\$B;<, (;17, ;' 6" , >(' 7E>" , 4P" 46B"
\$P?\$6B; , 7(\$"? 8; /; \$<I!"

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f4<, "17, "6' , "8\$4<, "XXX/!, ,) /%! =&! 4 ((#+45-& ; !B\$%-!54) %\$+' K! 4' ; ! /-+) 8; ! + ' 8@! =&!
5+ ' /\$; &#&; ! \$*YB-&' ! +%-&#! 8&/! /! &J (&' /\$7&! 4' ; ! #\$/O@! *\$' 4' 5\$' 1! + (%\$+' /! 4#&! ' +!
474\$84=8&I! J >\$6" B\$<;E6;6E" ?(' \$\$/ , <" , >\$" B\$F\$8" ?O\$6, " 6\$B\$B<" = " ?\$' ?8\$ <>' 78B" 1\$"
\$P?8; /; , @" 4<<\$<<B" 46B" \$07; , @' /' 6/\$ (6<<>' 78B" 1\$ 4BB(\$<<B";6" , \$ (O<" = "\$07; , 418\$"
46B"4=" (B418\$4//<<" , " ; 6=(4<, (7/ , 7(\$46B"<\$(F; /\$<I!

"

I 6"/%#&' 1%-&' \$' 1!%-&!3*6!*+88+BG) (!(#+5&/!455+) ' %4=\$8\$%@!*#4 , &B+#OS"

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A>\$" : . . " = ' 88' %97?" O\$ />46;<O<"<>' 78B" 1\$ 17;8, " ; 6" 5+ ' /) 8%4%\$7&! (#+5&/&/! B\$%-!
58&4#! + ((+#%) ' \$\$\$&/! *+#! 5+ ' /\$/%&' %! 4' ; ! #&1) 84#! \$' () %/! =@! B+ , &' ./! # \$1-%/!
+#14' \$! 4\$%+' /! 4' ; ! ' &%B+#0/! 4' ; ! 1&' ; &#! &L) 48\$%@! &J (&#%/W J ' O\$6K<"
' (E46;Q4, ;' 6<" 6\$, %' () <" 46B" E\$6B\$ (" \$P?\$ (, <" 4(\$") \$@" = ' (" 4<<\$<<;6E" >' %" E8' 148"
;6<, 41;8; , @" 46B" = ; 646/ ; 48" / (; <\$<">4F\$4"B; <? ('?' (; ;' 64, \$8@6\$E4, ; F\$; ; O?4/ , " 6"% O\$6"

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U"

' 4%\$+' 48! 1&' ; &#! , 45-\$' &#&!/! %+! (4#%\$5\$(4%&! 4' ;! '\$' *8)&' 5&! %-&! *\$' 4' 5\$48K!
, +' &%4#@!4' ;!*\$ /548!(+8\$5@!(#+5& //&/'D(\$4,\$"/' >\$(\$6/\$"1\$,%%\$6"O4/(' \$/' 6' O;/"
?' 8;/@"46B"E\$6B\$("\$0748;,@"E' 48<"1@"/>46E;6E",>\$";6/\$6,;F\$"<,(7/,7(\$<"6"<' /;,\$@<' "
,>4," ,>\$" (\$<?' 6<;1;8;;;\$<" =' (" ?(' F;<:' 6;6E" 46B" /4(\$" 4(\$" <>4(\$B" 4O' 6E" <,4,\$<"
O4()\$,<"46B">' 7<\$>' 8B<" ('/' OO76;;;\$<!"
"

M-&!" +, &' ./!" +#O\$' 1!2#+) (!+' !%-&!3*6!5+, , \$%/!\$%/&8*!%+!O&&(!*)88@!&' 141&; !

H&*#&' 5&/"

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H,4,\$O\$6,"^J >@",4/)8\$",>\$"8;6)<"1\$,%\$\$6";88;/,,"/4?;,48"=8' %<" ,4P"?' 8;/;\$<"46B"E\$6B\$(" S7<;/\$m_"?(\$?4(\$B"1@="\$O;6;<,"46B"488;\$<"4," ,>\$": ;646;/;48"A(46<?4(\$6/@"D' 48;;;' 6"46B" f4;;6B4BB"D' 6=(\$6/\$"^5;BB\$6"V' 6\$@"5;BB\$6"\\$<' 7(/\$<I": ;646;/;6E". \$F\$8' ?O\$6,"%;>" A(46<?4(\$6/@_" f;O4"" !3" g" !d" l /,' 1\$(" -2! 3W" \\$,(\$F\$B" =(' OI"

"