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+%7"?+<+&& 1. % '^>?. "0*, ,. @. "?+&. % +6'. 7"?'(&"; (&6<(1 (%+'(*%/"O+<+&& 1. % '/'+%7"C. '+, (+'(*%"J*, (62"
Z[J*, (62\]"* "<. 9. , 6"'+%7" 1+(%'+(%'("&'&'&'')'(*%+, "B+, .) .&'+%7"6* 1 1)%('2". 45. 6'+('(*%&_'"*5<*B(7. "
9*<'9+(<'+%7". T)('M, . " 5<*6. 7)<. &"9*<'7. ' . < 1 (%@%" G? . % "'?(& J*, (62" ?+&M. . %" B(*, +' . 7_ "+%7" '*"
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5?2&(6+, "*< 1. %'+, "7(&+M, ('2"/ 1. 7(6+, "6*%7(' '*%/"B. ' . <+%&'&'&')&/"@. % . '(6'(%9*< 1+'(*%/"*"+%2"*?' . <"
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I. 4)+, +%7"@. %7. <:M+&. 7"7(&6<(1 (%+'(*%"+%7" ?+<+&& 1. % "'+<. " . 46,)&(B. , 2"+77<. &&. 7"M2"?' . " I. 4)+,
+%7" \$%'. <5. <&*%+, " X(&6*%7)6" J*, (62^" >?. " I. 4)+, " +%7" \$%'. <5. <&*%+, " X(&6*%7)6" J*, (62"
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7. 6(&(*%: 1 + `(%@)"/ (%6,)7(%@" &. 4)+, "+&&+), /" %*%: 6*%&. &%) +, "&. 4)+, " 6*%'+6'/'7+'(%@" +%7"7* 1 . &'(6"

- b 0* 1 1)%(6+'." G('?' 1 . 1 M.<&" *9" '?. " 0*,,.@" 6* 1 1)%('2" <.@+<7(%@" +55,(6+M,. " ,+G" +%7" 5*,(62"+%7"5<*B(7."(%9*< 1 +'(*%" +M*) "'<.5*<'(%@" +%7"&)55*<' '*5'(*%&^"
- b C.B(.G" +55,(6+M,. " 0*,,.@" 5*,(6(.&" '*". %&)<." (%&'(')'(*%+, " 6* 1 5,(+%6." G('?' +55,(6+M,. " 9.7.<+, "+%7"&'+'.' ,+G^"
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- b 0*%7)6""<+(%@"<.@+<7(%@"9.7.<+, /"&'+'.' /"+%7", *6+, ,+G/" +%7"J<*?(M(' .7"0*%7)6""&"7.9(% .7" (%""?(&"J* ,(62^"
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b $\frac{*_+, \$''(-+())R^F\%(\%7(B(7)+, "G?*"?) + \&"M. .\% < .5* <'. 7''*"?) + B. .\% @ + @. 7''(\% "6* \% 7) 6''?' + "6*) , 7''}{6* \% \&'(')'. "J < *?(M(' . 7'' 0* \% 7) 6'^\wedge}$

b $\frac{. \& /) 0 l. \& /)' +, R^F 6* 1 5, +(\% + \% "" * < " < . \& 5* \% 7. \% "" 5 + < (6(5 + '(\% @ (" \% " + < . \& *,)') (* \% " 5 < * 6. \& \& \wedge)}$

b $\frac{2') (+, . R^F\%(\%7(B(7)+, "G?*" 1 + 2"?) + B. (\% 9 * < 1 + '(* \% " < ., . B + \% "" * " + " < . 5 * < ' " * 9" J < *?(M(' . 7'' 0* \% 7) 6'^\wedge) F^G(' \% . \& \& " 1 + 2" M. " + \&') 7. \% / " + \% ". 1 5, * 2. . / " * < " + " ? (< 7" 5 + < 2^\wedge)}$

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K* < " . B. < 2" < . 5 * < / " ' ? . " 0(B, " C(@ ? ' \& " D" > (', . \$ E" 0 * * * < 7(\% + ' * < " G(, , < . B(. G" ' ? . " 6 (< 6) 1 \& ' + \% 6. \& " * 9" ' ? . " < . 5 * < '. 7" 6* \% 7) 6'' * " 7. ' . < 1 (\% . " G ? . ' ? . < ' ? . " 0 * , , . @ . " ? + \& " g) < (& 7(6' (* \% " * < " 7 (& 6(5, (\% + < 2" +) ' ? * < (2" * B. < ' ? . " < . \& 5 * \% 7. \% "" * < " ' ? . " 6* \% 7) 6'^\wedge \$ \% " . 4. < 6(\& (\% @ " g) < (& 7(6' (* \% " * B. < " + \% " V 66(7. \% ' +, ;

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7)<+'(%%"*9"?.'6*%7)6'_G?.'?.<'"?.'6*%7)6'"G+&5?2&(6+,2"'?<.'%(%@"_'?.'.99.6'"*9"?.'6*%7)6'"
*%"?'.'0*15,+(%+'A&"1.%"', "%<'.1*'(%, '&'+'. _G?.'?.<'"?.'6*%7)6'"G+&7(<.6'.7'+'"1*%<.'?'+%"
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'?'.'6*%7)6'"')%<.+&*%+M,2'(%'.<9.<.7"G('?'?'.'0*15,+(%+'A&"'.7)6+'(%%+, "%<'G*%<'5.<9*%<1+%6."
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+%7"6(<6) 1 &'+'%6.&^"O*&'(.%.%B(<+%1.%"'?'<+&&1.%"'7*.&'%"%'%.7'"*M."7(<.6'.7'+'"'+&5.6(9(6"
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%,(%.'6%7)6'"*66)<<(%@"6*15,.'.2*')&(7.'*9"'?.'0*,,.@"A&"'.7)6+'(%%"5<*@<+1"*%<'+6'(B('2'1+2"
%,2"M."+77<.&&.7"G?<.'?'.'0,,.@"*"?.<G(&(<.@),+'.&'?.'6*%7)6'/'?'.'6*%7)6'"'+&"*%<'6*'),7"
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B5'-6\$/"6C5"6?<+&&1.%"*66)<&"G?.'%&)M1(&&(%%"*%<.<g.6'(%%"*9")%G.,6*1."6*%7)6'"(&)&.7/"
.45,(6',2"*%<(15,(6',2"/+&'?'.'M+&(6'9*%<7.6(&(%%&"+99.6'(%@"+%"(%7(B(7)+,A&"'.7)6+'(%%"Z+88/"
+71(&&(%%/"'+6+7.1(6'&'+%7(%@"' @<+7.&/' +&&(@%1.%"_]".15,*21.%"Z+88A6'?(<(%@"'+7B+%6.1.%/'"
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5.<&*%9*%<1.%"@+@(%@"(%%"6'(B('2'5*%<.6'.7")%7.<'"?(&"J*,(62^"C.'+,+(%%"6+%"M."6*11('.'7"M2"*%<
+@+(%&'"+%2"(%7(B(7)+, "%<@<*)5"*9"(%7(B(7)+, &/'%"*%g) &'"0*15,+(%+%'"*%<'C.&5*%7.%'A"C.'+,+(%%"
7*.&'%"*%("6,)7."@**7"9+'?'+'(%%&"+G9),,2'5)<&).7'(%<.&5*%&."*%"+<.5*%<'*9"J<*?M('.'7"0*%7)6'^"
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!>?.'0*,,.@"G(, "+`.(11.7(+'. "+%7"<.&5*%&(B."+6'(%%"*%+2"<.5*%<'*9"<.'+,+(%%"%7"G(,5)<&)."
7(&6(5,(%<2"+6'(%%"&"+55<*5<(+'.^"F%"(%7(B(7)+, "<.5*%<'(%@"J<*?M('.'7"0*%7)6'"(&).%'('.,7'"*
5<*'.'.6'(%%"9*%<1"+%2'9*%<1"*9"<.'+,+(%%"9*%,*G(%@"+<.5*%<'?'+'&"1+7."(%@"*7"9+'?"/.B.%"(9)"?."
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G('?'?'.'V99(6."9*%<0(B("C(@?'&'9*%<'?'.'; .5+<1.%"*9"37)6+'(%%"Z[V0C_]_'?'.'0+,(9*%<(+
; .5+<1.%"*9"K+<("315,*21.%"'+%7"O*)&(%@"Z[;K3O\]_*%<'?'.'9.7.<+, "3T)+, V55*%<)'(2"
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>?. "0*,,. @. "(&"6* 1 1 ('. 7""*5<*'. 6'(%@"'?. "5<(B+62"*9"+,, (%7(B(7)+, &"(%B*, B. 7"("%'?. "(%B. &'(@+'(%%"+%7"<.&*,)'(%%"*9"<. 5*<'&")%7.<"?(&"J*, (62^" d ('?'<.&5. 6'""*+%2"<. 5*<'")%7.<"?(&"J*, (62""?. "0*,,. @. "G(,, 1 +` . "<.+&*"%+M, . ". 99* '&'""5<*'. 6'""?. "5<(B+62"*9"5+<'(6(5+% '&'(""+66* <7+%6. "G('?" +55, (6+M, . "&'+' . "+%7"9. 7.<+, , +G/"G? (, . "M+, +%6(%@"'?. "% . . 7" '*"@+'?. <"(%9* < 1+'(%%" '*"+` . "&' . 5&" '*". . (1 (%+' . "J<*?(M(' . 7"0*%7)6'/"5<. B. %'('&'<. 6)<<. %6. /"+%7"<. 1 . 72'('&. 99. 6'^"F, , "0*,,. @. ". 15, *2. . &"G?*" +<. "(%B*, B. 7"("%'?. "<.&*,)'(%%"*9"<. 5*<'&")%7.<"?(&"J*, (62"<. 6. (B. "&5. 6(9(6(%&'<)6'(%%" +M*)' "<. &5. 6'(%@" +%7"&+9. @.) +<7(%@"5<(B+' . "(%9* < 1+'(%%"^" J<(B+62"+%7"6*%9(7. %'(+, ('2" ?+B. "7(&'(%6" 1 . +%(%@&")%7.<'?(&"J*, (62^"

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[J<(B+62\"@. % .<+, , 2" 1 . +%&""?+"(%9* < 1+'(%%"<., +'. 7"("%"+<. 5*<'""9" J<*?(M(' . 7"0*%7)6" G(, , "%%, 2"M. "&?+<. 7"G('?"(%7(B(7)+, &"G?*" [% . . 7" '*"" ~ %*G\"(%"*<7.<"*"+&&(&'""('?' . "+&&. && 1 . %'/"(%B. &'(@+'(%%/"* <.&*,)'(%%"*9""?. "<. 5*<'^" d ?(, . "%*"M*)%7"M2"6*%9(7. %'(+, ('2"/'?. &. "(%7(B(7)+, &"G(, "M. "7(&6<. . "+%7"<.&5. 6'""?. "5<(B+62"*9"+, "(%7(B(7)+, &"(%B*, B. 7"("%'?. "5<*6. &&^""

>?. " 5<(B+62" *9' &')7. %' . 7)6+'(%%" <. 6* <7&" G(, , "M. " 5<*'. 6'. 7" (%"+66* <7+%6. " G('?' '?. " K+ 1 (, 2" 37)6+'(%%+, "C(@?'&"+%7"J<(B+62" F6"Z[K3CJF\]/"+&*')', (%. 7"("%'?. "0*,,. @. A&"K3CJF"J*, (62^">?. "

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%'.

G\$?8.&',E!O?&'8,:!

>?".0*,,.@"&'<*%@,2".%6*)<+@.&'+,,(%7(B(7)+,&"'"1+`."+<.5*<'""*"?."0*,,.@"+%7""*,"*6+,,"+G".%9*<6.1.%'"Z(%"?'."6+&."*9"+,,.@"7"6<(1(%+,"1(&6*%7)6']"/"+,'?*)@?"%.(?'<(&"<.T)<.7^">?.&".<.5*<'(%@"*5'(*%&"+<."%*"1)')+,,2".46,)&(B.^"Y*?"(%'.<%+,"+%7"6<(1(%+,"<.5*<'&"1+2"M."1+7."&(1),'+%.*)&,2^">?".0*,,.@"?+&"+&'<*%@"(%'.<.&"(%&)"55*<'(%@"?'*&."G?*?"?+B.".45.<(.%6.7"7(&6<(1(%+'(*%/"(%2*ET214Tm/TT21TfB(1)0.2(.)0.2(%')0.2%/"+%7"<.'%2*ET(,)0.2(()0.(+)0.2(')0.2

!!"

"
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"

FD. : 6 I "/)J+&,)6 : '?', '''(6

FB+(,+M,. " *%<. &5*%7""*+%2"<. 5*%<'&"9"6<(1 . "*<"B(*, . %6./"(%6,)7(%@"J<*?(M(' . 7"0*%7)6'^""
WWHW 8 *%<'? " I+% "K. <%+%7* "C*+7" j *%&" F% @ . . . &/"0 F"QUULH"
K<*% "7. & `5? *% . "%) 1 M. <R"ZW#W]"W==:HNU!"

4 (&<;# . -<*)" '8D<)"* '#

>?. " 0* ,. . @ . "&'< *% @ , 2" . %6*) <+@ . "&'+ , "(%7(B(7)+, &" *%<. 5*%<" J<*?(M(' . 7"0*%7)6'""*"'? . "0(B, "C(@?'&
+%7">(' . "\$E"V99(6. ^""

! '? %6 * '8J), 6&(-6; ')%<6<K6399'7+6

FB+(,+M,. " *% "G . . `7+2&"7)<(%@"<. @) , +<"*99(6. " ?*) <&" *%<. &5*%7""*6* 15, +(% '&"*9" J<*?(M(' . 7"
0*%7)6'" +@+(%&" "+%2" (%7(B(7)+, "6*B. <. 7") %7. <" '? (&" J*, (62_ "G* <^ &" G('?' *"'? . <"*99(6. &" *% :
6+ 15) &" +&" +55<*5<(+' . ""*5<*B(7. "&)55* <' (B. "(%'. <(1 "1 . +&) <. &/"G?(6?" 1+2"(%6,)7. "6?+%@ . &"
(% " ?*) &(% @/" +6+7. 1 (6"9, . 4(M, ('2/" +%7" 8 *% "0*%'+6" j . ' . <&/" + 1 *% @ " *"'? . <"1 . +&) <. &^""
F e 0 "C** 1 "!!!!"
[GGG^*42^ . 7\)c6\(B, :<\(@?'&:'\(. : : \(4"](#)
ZW#W]"#HQ: !WWP"

"
\$%7(B(7)+, &" 1+2"+, &*%<. 5*%<" *"'? . "9* , *G(%@"*99(6. &/" G?(6?" G(, "9* <G+<7" +%2"<. 5*%<'&" (%B*, B(%@"
5*'. %'(+, "J<*?(M(' . 7"0*%7)6'""*"'? . "0(B, "C(@?'&" +%7">(' . "\$E"V99(6. ^"

! & # \$5, 6L&9+)06

FB+(,+M, . "+&" +9(<&" *5'(%%" *%<. 5*%<" "+%2" (%6(7. % "" *9" 6<(1 . " *<" B(*, . %6./" +&" G. , "+&" +%2"
(%6(7. % '&" (%B*, B(%@" J<*?(M(' . 7"0*%7)6'^" F, &*5<*B(7. &" +% . &6* <'&. <B(6. " *% "6+ 15) &" *% "+%2"
&')7. % "" +%7"6+% "<. +6? "'? . " ; . +% " *% " ;) '2" + " +%2" (1 . ^" FB+(,+M, . "#=" ?*) <&" + "7+2" N"7+2&" +
G . . ^" 0+ 15) &" I+9. '2" G(, "9* <G+<7" +%2"<. 5*%<'&" (%B*, B(%@" 5*'. %'(+, "J<*?(M(' . 7"0*%7)6'""*"
'? . "0(B, "C(@?'&" +%7">(' . "\$E"V99(6. ^"
K+6(, ('&" X+%+@ . 1 . % " " Y) (, 7(%@"
"
[GGG^*42^ . 7\)c*99\(6. &:& . <B\(6. &c6+ 15\) &:&+9. '2"](#)
ZW#W]"#HQ: #HQQ"Z9<*% " "7. & `]"
ZW#W]"#HQ: #H!! "Z. 1 . <@ . %62" , (%.]" * <"7(+, "H"9<* 1 "+%2"6+ 15) &"5? *% . "

= 5# & (6*+, "5/7+, 6

FB+(,+M, . " *% " G . . `7+2&"7)<(%@"<. @) , +<"*99(6. " ?*) <&" *%<. 6. (B. " 6* 15, +(% '&'<. , +'. 7" '*
. 15, *2. &" *9"?' . "0* ,. . @ . /" (%6,)7(%@"9+6), '2" O) 1 +% " C. &*) <6. &" G(, "9* <G+<7" +%2"<. 5*%<'&"
(%B*, B(%@" 5*'. %'(+, "J<*?(M(' . 7"0*%7)6'""*"'? . "0(B, "C(@?'&" +%7">(' . "\$E"V99(6. ^"
F e 0 "K(<&" K, *%<"
[GGG^*42^ . 7\)c*99\(6. &:& . <B\(6. &c?\) 1 +% : . &* \) <6. &"](#)
ZW#W]"#HQ: #L!W"

: +& (6" %L)5-+(, 6399'7+1 : +& (6" (6 : 5)06

FB+(,+M, . " *% " G . . `7+2&"7)<(%@"<. @) , +<"*99(6. " ?*) <&^" F66. &&" *% " ; . +% " *% " ;) '2" #=" ?*) <&" +
7+2" M2" 6+, , (%@" 0+ 15) &" I+9. '2" + " ZW#W]" #HQ: #HQQ^" 0+% " +&& (&" G('?'<. +&*%+M, . "
+66* 1 1 *7+1 (%&" 9* <" ?*) &(% @/" +6+7. 1 (6"9, . 4(M, ('2/" +%7" 8 *% "0*%'+6" j . ' . <&^" >? . " ; . +% " *9"

!#"

"
"
"

I')7.% '&' G(, "9* <G+ <7" + %2" <.5* <'&" (%B*, B(%@ " 5*'. %' (+, " J <*? (M(' .7" 0*%7)6'" '* " '?." 0(B, " C(@?'&" + %7">(', ." \$E" V99(6. ^"
Y. <`)&" O+, "
GGG^*42^ .7)c&')7. %':. (9. c&')7. %': +99+(<&c7. + %: &')7. %' &"
ZW#W]"#HQ: #LL!"

? ' * ' 2&* ; #. . - < * %) " ' 8+

F%2" (%7(B(7)+, " 1 + 2" 1 + ` . " + % " + % * % 2 1 *) &" <.5* <' " 6*%6. < % (% @ " + % " + 6' " * 9" J <*? (M(' .7" 0*%7)6' ^" F% " (%7(B(7)+, " 1 + 2" <.5* <' " " ? . " (%6(7. % " " G(' ? *) " " 7 (&6, * & (% @ " " ? . (< " % + 1 . / " (7. % ' (92(% @ " " ? . " <. & 5* % 7. % ' / " * < <. T) . &' (% @ " + % 2 " + 6' (* % ^ " ; . 5. % 7 (% @ " * % " " ? . " . 4' . % " " * 9" (% 9 * < 1 + ' (* % " + B + (, + M, . " + M *) " " " ? . " (%6(7. % " " * < " " ? . " (%7(B(7)+, &" (%B*, B. 7 / " ? * G. B. < / " " ? . " 0 * , , . @ . A & " + M (, ' 2' ' * < . & 5* % 7' ' * " + % " + % * % 2 1 *) &" <.5* <' " 1 + 2" M. " , (1 (' . 7 ^ " > ? . " F % * % 2 1 *) &" C. 5 * < ' (% @ " K * < 1 " 6 + % " M. " 9 *) % 7 " + " R "

GGG^*42^ .7)c6(B(: < @ ? ' & : ' (. : : (4^ ""

"

> ? . " 0(B, " C(@?'&" D">(', ." \$E" 0 * * < 7 (% + ' * < " G (, < . 6. (B. " " ? . " + % * % 2 1 *) &" <.5* <' " + % 7" G (, " 7. ' . < 1 (% . " + % 2 " + 55 < * 5 < (+ ' . &' . 5 & / " (% 6,) 7 (% @ " (% 7(B(7)+, " * < 6 * 1 1) % (' 2' < . 1 . 7 (. & " + & " + 55 < * 5 < (+ ' . / " + % 7' (% 6 * % &) , ' + (* % " G(' ? " " ? . " 0, . < 2" > . + 1 / " 6 * 1 5, (+ % 6. " G(' ? " + , " 0, . < 2" F 6 " * M, (@ + ' (* % & ^ "

. - < * %) " ' 8+) * + > C) - % ' (/ ? 8 - ' \$ - #

\$% " + 77 ((* % " " * " <.5* <' (% @ " " * , + G " . % 9 * < 6. 1 . % " " * < " ? . " 0 * , , . @ . / " &') 7. % ' & / " 9 + 6) , ' 2 / " + % 7 " &' + 99 " & ? *) , 7 " M. " + G + < . " * 9 " " ? . " 9 * , * G (% @ " . 4' . < % + , " @ * B. < % 1 . % ' + , " + @ . % 6 (. &' " ? + " " (% B. &' (@ + ' . " + % 7 " 5 < * & . 6) ' . 6 * 1 5, (+ % & " * 9' 5 < * ? (M(' . 7" 7 (& 6 < (1 (% + ' (* % " + % 7 " ? + < + & & 1 . % ' R "

. " % ' 7 0 6 D \$ \$ ' 7 &') " " (6 & (- 6 ! " # \$ % ' & (7 + 6 M) J 6 N + - + / & % F & M 6

\$% T) < (. &" * < " 6 * 1 5, (+ % ' & " 6 * % 6. < % (% @ " " ? . " 0 * , , . @ . A & " + 55, (6 + ' (* % " * 9" ' ? (&" J * , (62" + % 7 c * < " 6 * 1 5, (+ % 6. " G(' ? " 6. < ' + (% 9. 7. < + , " + G & " Z + & 8 @ / " > (, . " \$ E / " > (, . " - \$ / " I . 6' (* % " H U = / " ? . " F ; F / " + % 7 " ' ? . " F @ . " F 6'] " 1 + 2" M. < . 9. << . 7 " " * " ? . " S ^ I ^ " ; . 5 + < ' 1 . % " " * 9 " 37) 6 + ' (* % A & " V 99 (6. " 9 * < " 0 (B, " C (@ ? ' & ^ " S ^ I ^ " ; . 5 + < ' 1 . % " " * 9 " 37) 6 + ' (* % " V 99 (6. " 9 * < " 0 (B, " C (@ ? ' & / " I + % " K < + % 6 (& 6 * " " S % (' . 7 " 8 + ' (* % & " J , + a + / " I) (' . " H U " I + % " K < + % 6 (& 6 * / " O + , (9 * < % (+ " Q = ! U # " " Z = ! H] " = P L : H H H H " " GGG#^ . 7 ^ @ * B c + M *) ' c * 99 (6 . & c , (&' c * 6 < c (% 7 . 4 ^ ? ' 1 , "

> # \$ % " 0 # + < 0 . 2 (#) 7 (,) 0 . 2 () 0 . 2 (') < . 2 (') 0 0 * % " # Z ! H] = P L Z T T 2 4 l T f >) 0 . 2 4 l 0 0 0 0 . 2 4 0 . 2 4 0 0 () 0 .

"
"
"

j*&"F%@.,.&/"0+, (9*<%(+"QUU!W"
Z#!W]"=WQ:LNQQ"
GGG^79.?^6+^@*B"

F%2". 15,*2.. " 1+2"5)<&)." +%2"6?+<@." *9"7(&6<(1(%+'(*%*"*<" ?+<+&&1.%" "G('?'? ".9.7.<+,
3T)+,"V55*(<')%('2"3 15,*2 1.%" "0* 1 1 (&&(*%"Z[33V0\]^"
3T)+,"V55*(<')%('2"3 15,*2 1.%" "0* 1 1 (&&(*%"
#HH"3+&">. 15,. "I'<..!/"
j*&"F%@.,.&/"0+, (9*<%(+"QUU!#"
Z#!W]"PQ=:!UUU"
GGG^..*6^@*B"

>?. "Y)<.) "9*<"J<(B+'." J*&'&.6*%7+<2"37)6+'(*%" +66.5'&"+,,"25.&"*9"6* 15,+(% '&'<.,+' .7"'*
'?. " 0*,,. @. " +%7" 1+2" <.9.<" +%2" 6* 15,+(% "' (" <.6.(B.&' (%6,)7(%@ " 6* 15,+(% '&'<.,+' .7"'*
(%&'(')'(*%+, "5*,(6.&' *(<"5<*6.7)<.&' *(<"M*?'/" *"'?'." 0*,,. @./" +% +66<.7('(%@ "+@.%62/" *(<
+%*?'<." +55<*5<(+.'." %'('2"9*<"<.&*,)'(*%[^]"
Y)<.) "9*<"J<(B+'." J*&'&.6*%7+<2"37)6+'(*%[^]"
#HWH"0+5('*, "V+`&' ;<(B./"I)('."=UU"
I+6<+ 1.%"*/"0 F"QHPWW"
ZQ!L]"=W!:LQ#=""
GGG^M55.^6+^@*B"

D)9-%+ .-<*)" '8+4* '#3-%() '* '#

: '#+%'(+, ,6&(-6F"7&)"' (6"96<(7'-+()6

0* 15,+(%+% '&'+%7"'?(<7:5+<2"G(% .&&. &'+<." %6*)<+@.7" *"<.5*<" J<*?(M(' .7"0*%7)6'" +&'&*%"+&
5*&&(M, ." (% *(<7.<" *' 1+4(1(a. " ?." 0*,,. @.A&"+M(,'2" *'<.&5*%7"5<* 15',2" +%7" .99.6'(B.,2" >?. "
0*,,. @."7* .&"%*"/"?*G.B.</" , (1(''?'." '1."9<+ 1."9*<"<.5*<'(%@^"9"?'."<.&5*%7.%'"(%%"*"+ 1. 1M.<
9"'?."V66(7.%'+,"6 1 1)%('2"/"?."0*,,. @."G(, "&' (, '+` .&' .5&"*5<*B(7."9*<"?'."&+9.'2"+%7"G.,,:
M.(%@"*9"?'."6* 15,+(%+% "'"+%7"'?."M<*+7.<"6+ 15)&'6* 1 1)%('2"+%7"'*"+77<.&&"?'." .99.6'&"*9"?'."
<.5*<' .7"6*%7)6'^"Y)"'?'."0*,,. @.A&"+M(,'2" *'"+` .7(&6(5,(%+<2"+6'(*%"+@+(%&'?'."<.&5*%7.%'" 1+2/"
9'6)<&./"M., (1(' .7^"F%("6(7.%"7* .&"%*"?'+B. " *"*66)<"*%"+ 15)&"*M."<.5*<' .7" *'?'."0*,,. @. ^"

D#(+,)069"/6D%7"J"%6"/63)J+/6 : /586O, +6"/63)J+/6! "(-57)6P'""&)"' (,6

>?. "0*,,. @. "&'<*%@,2".%6*)<+@.&"'?'<.5*<'(%@"*9"J<*?(M(' .7"0*%7)6'")%7.<"'?(&"J*,(62^"\$"("&"%'?" .
M.&'(%'<.&"*9"?'(&"6* 1 1)%('2"'?+"&" 1 +%2"6* 15,+(%+% '&'+&"5*&&(M, ."6?*"&." *"<.5*<"*6*,,. @. "
*99(6(+,&" +%7"'?+"5+<'(6(5+% '&'(%"'?'."@<(.B+%6. "5<*6.&&"+<."9*<'?<(@?'("(&'?+<(%@"%9* <1+'(*% ^" d ?.%
+&')7.%'"G?*"5+<'(6(5+.'&'(%"'?'."5<*6.7)<.&'7.&6<(M.7'(%"'?(&"J*,(62"Z+&"+6* 15,+(%+% "'<.&5*%7.%'/"
(<"?'(<7:5+<2" G(% .&&]" G),7" *'?'<G(&." M. "&)"Mg.6" *' 7(&6(5,(%+<2"+6'(*% "M2"?'." 0*,,. @." 9*<
5.<&*%+, "6*%&) 15'(*%@"*9"+,6*?*, *"<7<)&"* "<"?'<B(*, +(*%&"*9"?'."6*%7)6"5*,(62"Z%*"("6,)7(%@
'?(&"J*,(62"*<"?'."F6+7. 1(6"\$%'.@<'2"0* 1 1('1.%']+"* "<." +<"?'."(1."*9"?'."(%6(7.%'/"?'."0*,,. @. "
G(, "6*%&(&'<"?'<."5+<'(6(5+(*%@"%'?(&"J*,(62"+&"+&)"M&'+% '(+, " 1('(@+'(%@"9+6'<"/5<*B(7.7"'?+" +%2"
&)6?'B(*, +(*%&"7(7%*" +%7"7*%*"5,+6. "'?'."? .+, '?*"< "&+9.'2"*9"+%2"*'?'<5.<&*%"+<(&^"?)>."0*,,. @. "
1+2/"?*"G.B.</"(('+'." +% .7)6+'(*%+, "7(&6)&&(*%*"<5)<&)." *'?'<.7)6+'(*%+, "<. 1.7(.&"G('?'?' .
&')7.%'"<.@+<7(%@"+,6*?*, *"<"*?'<."7<)&^"

!'''/-'(&)'"(6M')J6F&M6>(9"/7+#+()6

>?. " 0*,,.@. " &'<*%@,2" .%6*)<+@. &" 6* 15,+(%+% '&" '* " 5)<&)." 6<(1(%+, " +6'(*% " 9*<" (%6(7.% '&" *9"
7(&6<(1(%+'(*% "'?+" " 1+2"+, &* "M. "6<(1 .&")%7.<"0+, (9*<%(+, +G^">?. "0*,,.@. "G(, "+&&(&'+"6* 15,+(%+% "
(% " 1+`(%@"+"6<(1(%+, "<.5*<"+"%7"6**5.<+' . "G('?',+G". %9*<6. 1 .% "+"@. %6(.& "9"+"6* 15,+(%+% "'7.6(7.&"
'* "5)<&)." "'?. "6<(1(%+, "5<*6.&&" '* "'?. " .4' .% "5.<1 (' .7"M2", +G^">?. "0*,,.@. "A&" J*, (62/"7.9(% ('*%&/"

!H"

"
"
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37)6+'(%%" + %7"O*)&(%@" I .<B(6.&"G(, "M. "(%9*<1 .7"*9""?. "% . .7""*"+&&(&"G('?"+"?*)&(%@"6?+%@. " +&
7(<.6'.7"M2""?. "0(B("C@?'&"D">(', "\$E"0**<7(%+'*<M)"G(, "%*"M. "5<*B(7.7"G('?"+%2"*9""?. "7. '+(, &
9" +%2" 6 15, +(%"^" F, , (%7(B(7)+, &" +<. " .%6*)<+@.7" '*"<.5*<" 6*%6.<%&" +M*)" 9+(,)<. " *9" +%*"? .<
(%7(B(7)+, " "*"+M(7. "M2"+%2"<. &'<(6'(%*&" (15*&.7"M2"+&)&55*<'(B. " 1 .+&)<. ^">?. " 0*, ,. @. "G(, " +` . "
(1 1 .7(+'. "%7"<. &5*%&(B. "+6'(%*"M". %9*<6. "+5<.B(*)&,2"(15, . 1 .%' .7"<. &'<(6'(%*"9&)6?<. &'<(6'(%*"
G+&"B(*, +'. 7^"

. ('8-+*5+E-(#;%-#)

I)55*<'(B. "+%7"5<*'. 6'(B. " 1 .+&)<. &"G(, "M. "(15, . 1 .%' .7"+""?. "7(&6<. '(%"*9""?. "0*, ,. @. ^"J*'. %'(+, "
1 .+&)<. &" 1+2"(%6,)7.R"

- b F66.&&"*"6*)%&., (%@"&. <B(6.&" + %7"+&&(&' + %6. "(%"&6?.7), (%@"M*"?"*%" + %7"*99"6+ 15)&_"
- b \$15*&'(%*"9" 1)')+, "6+ 15)&" [%*:*6*%'+6"7(<.6'(B. _)"
- b C.&6?.7), (%@"*9".4+ 1&" + %7"+&&(@% 1 .%'&_"
- b J<*B(7(%@"+, '.<%+'(B. "6*)<&. "6* 15, . '(%"*5'(%*&/"6?+%@. "(%"6,+&&(&6?.7), ./"(%6,)7(%@"'?. "
+M(, ('2""*" +` . "+%["(6* 15, . '\^"7<*5"+6*)<&. "G('?'*)"5. %+, '2"*<"<+&9.< &.6'(%*&_"
- b 0?+%@. "(%"G* <` "&6?.7), . "*<"g*M"+&&(@% 1 .%' _"
- b 0?+%@. "(%"*%:6+ 15)&"?*)&(%@"G? . %9. +&(M, ./"* <+<+&@(%@"*7(&&*B. "+?*)&(%@"6*% '<+6"
+%7"5<*:<+ '(%" + "<.9) %7"(%" +66*<7+%6. "G('?'6+ 15)&"?*)&(%@"5*, (6(. &_"
- b j(1 ('(%@" + %"(7(B(7)+, " * < * < @ + % (a + '(%"A&" +66.&&" * "6. <' + (% " 0 *, ,. @. " 9+6(, ('(. &" * < " +6'(B('(. &"
5. %7(%@<. &* ,) '(%"*9""?. " 1 + ' .<_"
- b - * ,) %' + <2", . +B. " *9" +M&. %6. _"
- b J<*B(7(%@" + %". &6* < "" * ". %&)<. &+9. " 1 *B. 1 .%' "M. 'G. . %6,+&&. &" + %7"+6'(B('(. &_"
- b J<*B(7(%@" +6+7. 1 (6&)&55*<'&. <B(6.&/"&)6?" +&"') '*<(%@_"
- b \$%' .<(1 "&)&5. %&('%"* < " 0 *, ,. @. :.(15*&.7", . +B. _"
- b F%2"*'?. < <. 1 .72""? + "6+%M. " + (, * <. 7""*""?. "(%B*, B. 7"(7(B(7)+, &" * <. +&*% +M, 2"+6?(.B. "'?. "
@*+, &"*9""?(&"J*, (62^"

F')-%"&+G;#<- '#"*' +*%+G-<(%)"*'+

\$9""?. "0*, ,. @. "7. ' .<1 (%.&"?' + ""'?. "6*%7)6"/"+&" +, ,. @. /"7"5*&. &" +5?2&(6+, "&+9. '2"<(&` ""*"% . "*<" 1 * < . "
(%7(B(7)+, &/"692cmBT4.6. ? . '?. "(7/

7.6(&(*% " (& +<M('<+<2" +%7" 6+5<(6(*)&" G?<." '?.<." (&" %*" <+'(*%+, " 6*%%.6'(*% M.'G..% " '?. " 9+6'&" 5<.&.% '.7"+%7" '?. " 7.6(&(*% " 1+7.^">?. "<.&5*%7.% "' G(, "<. 1+(% " %%" (%'.<(1" &)&5.%&(*% " G?(, ." '?. " +55.+," (&" 5.%7(%@^">?. "<.&5*%7.% "' G(, "M.%*' (9(.7" (% " G<('(%@" *9" '?. " *) '6* 1 . " *9" '?. " +55.+," ^">?. " 7.6(&(*% " *5,+6. "+%2"<.&5*%7.% "' *% "+%" (%'.<(1" &)&5.%&(*% " G(, "%*" "M. "6*%&(7.<.7"+&" .B(7.%6. "'?+' +%2"7.'.<1 (%+'(*% " ?+&" M..% " 1+7. "<.@+<7(%@" 5*' .% '(+," <.&5*%&(M(,'2^""

J<*B(&(*%&"9*<"&)&5.%&(*% " *9"9+6), '2" 1 . 1 M.<&" +<. "6*%'+(% .7" (% " ?." K+6), '2" O+%7M**` "+%7" 8>>" K+6), '2" 0*,,.6'(B." Y+<@+(% (%@" F@<.. 1 .% "' ZG?<." +55,(6+M,.]^" I'+99" 1+2" M." 5,+6.7"*% ", .+B."+' "'?." 7(&6<.'(*% " *9" '?. " 0*,,. @ ./'"+%7" (% " ` .5(%@" G('?" +55,(6+M,. "6*,,.6'(B." M+<@+(% (%@" +@<.. 1 .% ' &"

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>?. " 0*,,. @ . " &'<%% @,2" .%6*)<+@.&" (%7(B(7)+,&" '*&" <.5* <" J<*?(M(' .7" 0*%7)6'^" >?. " 0*,,. @ . " <.6* @% (a.&/' ?*G.B.</' ?+' "' ?." 7.6(&(*% " *"'<.5* <" J<*?(M(' .7" 0*%7)6" Z' *"' ?." 0*,,. @ . " +%7c* <," +G" .%9* <6. 1 .% ']" 6+% " M. " 7(99(6), '^">?. " 0*,,. @ . " &'<%% @,2" .%6*)<+@.&" (%7(B(7)+,&" G?* " +<. " 6*%&(7.<(%@" G?.'?'<" *"'<.5* <" J<*?(M(' .7" 0*%7)6" *"' & . ` "' ?." &)55* <" *9" 6*%9(7.% '(+," 6+ 1 5)&" +%7" 6* 1 1)% ('2" <.&*) <6.&/' , (&' .7" M. , *G^" >?. & . " '<+ (% .7" 5<*9.&&(*% +,&" 6+% " 5<*B(7. "@) (7+%6. " (% " 1+` (%@" 7.6(&(*%&/' (%9* <1 + '(*% " +M*)' "+B(+, +M, . "<.&*) <6.& +%7" 5<*6.7) <+," *5' (*%&/' +%7" +&&(&' +%6. " '*" . ('?<'5+<'2" (% " ?." .B.% "' ?+' "+<.5* <" "+%7c* <.&*,2589.92c6 - 0.2(*,) - 0.2(*9) - 0.2(&) - 1T5000(5<*6)0 - 0.2.2('2") - 15.7(M

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b F"&'+'.1.% "'?'+'"'?. "<.&5*%7.%"("&5<.&)1.7"%*"'<.&5*%&(M,."9*<"'?. "+,.,@.7"6*%7)6"'+%7" '?+'+"7.'.<1(%+'(*% "<.@+<7(%@"<.&5*%&(M,('2" G(," M." 1+7."+' "'?. "6*%6,)&(*% "9"?'?. " ;(&6(5,(%+<2" C.&*,)')(*% "5<*6.&&_"

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Mg.6" "'"'?."\$%B.&'(@+'*<A&"&.,.6'(*% "%% "'?."M+&(&"*9" M(+&" * <"6*%9,(6" *9" (%'.<.&' ^" \$9' . ('? .<" *9" '?." 5+<'(.&' *Mg.
6'& /' '?." 0(B, "C(@?'&" D">(', ." \$E" 0**<7(%+'*<" G(,," .B+,) +'. "G?.'? .<" '?." *Mg.6'(*% "& &)M&' + % '(+'.7^">?. "0(B, "C(@?'&" D">(', ." \$E" 0**<7(%+'*<" G(,," <. 1 *B. " +%7"<.5,+6. " +%2"\$%B.&'(@+'*<"
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7(<.6',2"<.,+'7""*"'?."+,,.@+'(*%Z&]A">?(&"G(,,"(%6,)7."M*"'?(%6),5+'*<2"+%7".46),5+'*<2".B(7.%6.^"
d?<."+55,(6+M,./"'?<.5*<"G(,,"?+B."+'+6?7"+&"+55.%7(6.&"'?."'.&'(1*(%(+,"+%7"7*6) 1.%'+<2"
.B(7.%6."9<*1"'?."(%B.&'(@+'(*%A">?."\$%B.&'(@+'*<"G(,,"5<*B(7."+6?"5+<2""?."*55*<')%('2""*<.B(.G"
'?."J<.,(1(%+<2"C.5*<"+"%7"G(,," 1+`."("+"B+(,+M,."*"'?." 1"(%+"&.6)<." 1+%%.<"Z.^@^"M2"5<*B(7(%@"
B(.G:*%,2"+66.&&" '* " ?+<7" 6*52" 1+'.<(+,&" *<" '?<*)@?" + B(.G:*%,2" G.M" 5*+<+,]A" 8.'?'<" '?'." 6*
15,+(%+% "" %*<" '?'." <.&5*%7.% "" %*<" +%2" *9" '?.<("<+7B(&*<&" *<" '?(<7" 5+<'(.&" 1+2" 6*52"/<. 1 *B./"
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&')7.% "" *<. 15,*2.. "G?*9+(&"*"+M(7."M2""?(&' 1+2"M."&)Mg.6""*7(&6(5,(% ."F%2"+7B(&*<"G?*9+(&"
'*"+M(7."M2""?(&' 1+2"M."&)Mg.6""*7(&6(5,(% ." +%7c*+< 1+2"M.".46,)7.7"9<* 1"9)<'?<."5+<'(6(5+'(*%')("'
'?'."5<*6.&&^""

>?."5+<'(.&" 1+2"5<*B(7."+"G<'(.%<.&5*%&."*"'?."J<.,(1(%+<2"C.5*<"G('?(%"".%Z!U]M)&(%.&&"7+2&"
9" M.(%@" %'(9(.7" *9" '?.<(" *55*<')%('2" '*<.B(.G" '?. " J<.,(1(%+<2" C.5*<'A">?." 5+<'(.&A" G<'(.% "
<.&5*%&.Z&] " 1+2" (%6,)7."/ " G('?*)" , (1('+'(%/"<.T) .&'&" 9*+<9* , *G:)5" (%' .<B(.GZ&]" '* 6,+<(92" *<"
5<*B(7."+77('(*%+,(%9*+<1+'(*%/"<.T) .&'&"*6*%&(7.<"% .G".B(7.%6./"+%7"G<'(.%/"<.,.B+% "'T) .&'(*%&"
'?+'+" 5+<'2"G*) ,7,(`."?'."\$%B.&'(@+'*<"*"+&`" *9"+%2"5+<'2" *<"G(% .&&"Z+" "'?."7(&6<.'(*%""*9" '?'." "\$%B.&'
@+'*<]A" F%2"<.T) .&"9*+<+77('(*%+,(%B.&'(@+'(*%&'+,,".45,+(% "'?."<.+&*%9*+<'?'<.T) .&'A">?." "\$%B.&'
@+'*<"G(,,"6*%&(7.<"+%2"G<'(.%<.&5*%&.Z&]"5<*B(7.7"(%5<.5+<(%@" "'?."K(%+,"C.5*<"+"%7" 1+2"
6*%7)6""+77('(*%+,(%B.&'(@+'(*%""6*%&(&'.% ""G('?"?'."5<*6.7)<.&*)' ,(% .7"+M*B./"+&"?'."\$%B.&'(@+'*<"
7.. 1&"% .6.&&+<2"M+&.7" *% ""?'."5+<'(.&A"<.&5*%&.Z&]"/(9"+%2^"9""?'."\$%B.&'(@+'*<"6*%7)6"&"+77('(*%+,"
(%B.&'(@+'(*% " M+&.7" *% ""?'." 5+<'(.&A" G<'(.%<.&5*%&.&/" +%2" % .G/"<.,.B+% "" .B(7.%6."Z(%6,)7(%@"
+%&G.<&"*6,+<(92(%@"T) .&'(*%&]G(,,"M." 1+7." +B+(,+M,."9*+<.B(.G"M2".+6?"5+<'2"3+6?"5+<'2"G(,,"
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F55.+,&"*9"+7.' .<1 (%+'(*%"<.@+<7(%@"<.&5**%&(M,('2" 1+2"M."9(.7"M2".('?.<"5+<'2"+%7" 1)&"M."&.%"
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C.5*-<'^" F55.+,&" 1+2" *%,2" M." 1+ - 0.2(<) 0 1 3450 1 14 1 .(9(0.2(") - 8 3.7(>) 0.2(() 0.2(') 0) 0.2(() 0.2(') 0,

J??\$, @!>!Q)!J@+?&+67\$!G\$:87- &'8, !M.8%\$@ - . \$:!

F7+5'+M, . "<. &*,) '(*% (" + " B*,) %' + <2' / <. 1 . 7 (& : M + & . 7' / &' <) 6') <. 7' (% ' . < + 6' (*% " M . ' G . . % * < " + 1 *% @ " + 99 . 6' . 7 " 5 < + (. & " ' ? + " ' M + , + % 6 . & &) 5 5 * < " + % 7 " + 6 6 *) % ' + M (, (' 2 " G (' ? *) ' ' ' + ` (% @ " 9 * < 1 + , " 7 (& 6 (5 , (% + < 2 " + 6' (*% " + @ + (% & " ' ? . " < . & 5 * % 7 . % " ^ " > ? (& " 5 < * 6 . & & " (& " + B + (, + M , . " ' * " & ') 7 . % ' & / " 9 + 6) , ' 2' / " + % 7 " & ' + 9 9 ") 5 * % " 1) ') + , " + @ < . . 1 . % " ^ " F 7 + 5 ' + M , . " < . & * ,) ' (*% " (& " @ . % . < + , , 2 " 7 . & (@ % . 7 " ' * " + , , * G " ' ? . " < . & 5 * % 7 . % " ' * " + 6 ` % * G , . 7 @ . " ? + < 1 " + % 7 " + 6 6 . 5 " < . & 5 * % & (M (, (' 2 " 9 * < " < . 5 + (< % @ " ? + < 1 " Z ' * " ' ? . " . 4 ' . % " ' 5 * & & (M , .] " . 4 5 . < (. % 6 . 7 " M 2 " ' ? . " 6 * 1 5 , + (% + % " + % 7 c * < " ' ? . " 0 * , , . @ . " 6 * 1 1) (' 2 " F 7 + 5 ' + M , . " < . & * ,) ' (*% " (& " 7 . & (@ % . 7 " ' * " . , (1 (% + ' . " ' ? . " J < * ? (M (' . 7 " 0 * % 7) 6' / " 5 < . B . % " ' (& " < . 6) < < . % 6 . / " + % 7 " <. 1 . 7 2 (' & " . 9 9 . 6' & " (% " + " 1 + % % . < " ? + " 1 . . ' & " ? . " . . 7 & * 9 " ? . " 6 * 1 5 , + (% + % " + % " G ? (, . " 1 + (% ' + (% @ " ' ? . " & + 9 . ' 2 " * 9 " ? . " 6 + 1 5) & " 6 * 1 1) (' 2 " ^ " " "

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b J < * ? (M (' . 7 " 0 * % 7) 6' " + 9 9 . 6' & " 6 * 1 5 , + (% + % " & " < . & 5 * % 7 . % " / " G (% . & & . & / " 9 < (. % 7 & / " 6 * 1 1)) (' 2 " 1 . 1 M . < & / " 9 + 1 (, 2 " 1 . 1 M . < & / " + % 7 " * ' ? . < & _ "

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>? ." 0(B("C(@?'&"D">(',\$E" 0**<7(%+'*<" 1+2"+55*(%""+'<(%."7"(%'.<%+,"*<" .4'.<%+," 1 .7(+ '*<* < '*?' .<"5<*9. &&(*%+,"Z[9+6(,'+'*<]"**"9+6(,'+' .<.&*,)')(*%/"*<" 1+2"9+6(,'+' .<.&*,)')(*%7(<."6',2"G('?' '?' .5+<'(.&/"G?' .<."55<*5<(+'.^)">?' .9+6(,'+'*<" 1)&'M. "(1 5+<'(+,"+%7"9< . .9<* 1 "M(+&"*<"6*%9,(6""*9" (%'.<.&'^"\$9""?' .9+6(,'+'*<" ?+&"6*%6.<%&"?'+"''?' .2"6+%*%"9+6(,'+' ."+9+<('*<)"%M(+&."7"5<*6.&&/"?' .9+6(,'+'*<" 1)&'<."5*<""?'*& . "6*%6.<%&"*""?' . " 0(B("C(@?'&"D">(',\$E" 0**<7(%+'*<"+%7"+"7(99.<.%" 9+6(,'+'*<"G(,"M. "+&&(@%."7^"I(1(+,"+2"/"+5+<'2"G?'*?"?+&"6*%6.<%&"?'+"''?' ."+&&(@%."7"9+6(,'+'*<"6+%*%" .%+M, . "+9+<('*<"7")%M(+&."7"5<*6.&&/" 1+2"<."5*<""?'*& . "6*%6.<%&"*""?' . " 0(B("C(@?'&"D">(',\$E" 0**<7(%+'*<"G?'*G(,"+&&.&&""?' .6(<6) 1&'+%6.&+"%7"7' .<1(%)."G?'.'?' .<"+7(99.<.%"9+6(,'+'*<"&'?)" ,7" M. "+&&(@%."7""*""?' ."+7+5'+M, .<.&*,)')(*%5<*6.&&^"

\$9"+5+<'2"<.T) .&'&""?' .(%('+'(*%*9"+%"+7+5'+M, .<.&*,)')(*%5<*6.&&"+%7""?' . " 0(B("C(@?'&"D">(',\$E" 0**<7(%+'*<"+@< . .&'?'+"''?' . " 1+' .<("&+55<*5<(+'. "9*<"+7+5'+M, .<.&*,)')(*%/" .+6?"5+<'2"G(,"<."6.(B. "+G<('' .%*%*(6. ""?'+"7(&6,*&.&R"

- b >? ." +, , @+'(*%&_"
- b >? ."<.T)(<." 1 .%'&"*9""?' . "+7+5'+M, .<.&*,)')(*%5<*6.&&/"(%6,)7(%@"'?' . "6(<6) 1&'+%6.&)"%7.<" G?(6?" ("5<."6,)7.&""?' .5+<'(.&"9<* 1 "<.&) 1 (%@"+"9*<1+, "6* 15,+(%"+<(&@"9<* 1 ""?' . "&+ 1 . "+, , @+'(*%&_"
- b >? ."5+<'(.&^"<(@?""*G('?'7<+G"9<* 1 "+7+5'+M, .<.&*,)')(*%"+%7"<.&) 1 . "*<%"('+' . "7(&6(5,(%+<2" <.&*,)')(*%G('?'<.&5.6""*""?' . "9*<1+, "6* 15,+(%"+%7"
- b \$%9*<1+'(*%"+M*)"" 1+(%'.%+%6. "9*<."6*<7&"*<?"*G"<."6*<7&"6*),"7"M. "&?+<."7^"

d ('?"55<*B+, "9<* 1 ""?' . "0(B("C(@?'&"D">(',\$E" 0**<7(%+'*<"/"+9'.<"6*%&), '+(*%"+%7"(%'+` ."G('?"'?' . "9+6(,'+'*</"?' . "6* 15,+(%+%'+%7""?' .<.&5*%7.%"" 1+2"B*,) %'+<("2"+@< . .%*""?' . "5<*6.&&""?'+"M. &" 1 . . '&'?' . "(%'.<.&'&"+%7" % . .7&"*9" '?' . "5+<'(.&'^" F7+5'+M, .<.&*,)')(*% 1+2" (%6,)7. " *% . " *<" 1 *<." *9" '?' . "9* , *G(%@"<.&'*<+(B. "+55<*+6?' .&R"

N&7%')&)+-6 : '&'"85+Q" F" &'<6')<."7"+%7"9+6(,'+' .7" 6*%B.<&+'(*% M. 'G. .% 'G*" *<" 1 *<." (%7(B(7)+, &/" 1 *&"*9'.%""?' . "6* 15,+(%+%'/""?' .<.&5*%7.%"/"+%7c*<""?' .<"6* 1 1)%('2" 1 . 1 M.<&^" >? ."9*6)&'&"*9'.%""*%5<*B(7(%@"+"&5+6. "9*<"B*(6.&"*M. "?" . +<7"+%7"5.<&5.6'(B.&"*M. "&?+<."7^" ; .5.%7(%@" *%& '&'+.7" (%'.<.&'&/" '?' . "5+<'(6(5+%&" 1+2" &* 1 .' (1.&" G* < " '*G+<7&" '?' . "

!'/7%+6 "96 D77"5()&E%'')06 G! 3DHQ" F" 9+6,(+''.7" (%'.<+6'(*%" M.'G..%" '?." <.&5*%7.%'" +%7"
0*,,@."9+6), '2"+%7c*('&'+99"7.&(@%.7"'*5<*B(7."+66*)%' +M,(('2/'&'<)6')<.7"&)55*</'"+%7"'?." 7.B.,*5 1 .%" *9" +" ,.<+%(%"@ " 5,+%"^" >?. " 9*6)&" *9" +" 0VF" (&" '* " M+,+%6." &)55*<" +%7"

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\$%" +77('(*%" '*"(%.<B.%'(*%&" +55,(.7" '*" '?.<.&5*%7.%"/"+%7"<.@+<7,.&&" *9" G?.'?.<" '?. " 0*,,.@." 5)<&).&"+%" ;(&6(5,(%+<2"C.&*,)')(*%"*%<"'+`.&"*'?.<"9*%<1+, "7(&6(5,(%+<2"+6'(*%/'?'." 0(B,"C(@?'&"D" >(',"\$E"0**<7(%+'*%<"1+2"9(%7"('"?.,59), "*%<"%.6.&&+<2"*%<.T).&'*%<.T)(<."?'<.&5*%7.%'"*%<"*'?.<&" '*")%7.<'+`."&5.6(9(6"&'5&'7.&(@%.7"*%".,(1(%+'."?'." 1(&6*%7)6'/"5<.B.%'"('&'<.6)<<.%6./"+%7c*%< <. 1.72"('&".99.6'&^"34+15,.&"(%6,)7./"M)"'+<."%*"', (1('7"*%/'?'."9*,,*G(%@R"

- b C.T).&'(%@"*%<.T)(<(%@"+"0*,,.@."%('2"*%5<*B(7."'+<(%@"9*%<('&"+99"*%<" 1 . 1 M.<&_"
- b C.T).&'(%@"*%<.T)(<(%@"'?'<.&5*%7.%'"*%<.6.(B."'+<(%@"_"
- b 0*%'(%)(%@"+%2"*9"'?'."5<*'.6'(B."+%7"&)55*%<(B." 1 .+&)<.&"

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\$9"+<.5*%<'5<*6..7&'?'<*)@?' ; (&6(5,(%+<2"C.&*,)')(%*"+%7"'?<.&5*%7.%'"(&'9*)%7'<.&5*%&(M,. "9*%< *%."*%<'1*%<."B(*,+('(%&'9"'?'."0*,,.@.A&'+%'(7(&6<(1(%+'(%*%5*,(6(.&/'?'."0*,,.@."G(,,"&&)."&+%6'(%*%& 6* 1 1 .%&)<+)."G('?'?'."B(*,+('(%Z&]'^>?'."0(B,("C@?'&"D">(',"\$E"0**<7(%+'*%<'G(,,"7.&(@%+'."?'<.. " '<+(% .7'&'99"*%<'9+6), '2" 1 . 1 M.<&"'*"&.<B. "%*%+"?'<.:5.<&*%5+%,,"Z[C.B(.G"J+%,,\]"'*7.'.<1 (% ." &+%6'(%*%&^">?'."0(B,("C@?'&"D">(',"\$E"0**<7(%+'*%<'G(,,"%*(92"'?'."5+<'(.&/'(%G<'(%@/'*9"'?'."%+1 ." *9"'?'."7.&(@%+'."7"C.B(.G"J+%,,\,(&'&"+",,+&'9(B."ZH]"M)&(%.&&'7+2&'5<(*%<'*"'?'."?'<+<(%@^">?'."5+<'(.&' G(,,"?+B."?'<.. "ZW]"M)&(%.&&'7+2&'*%*%Mg.6"'*"+%2"C.B(.G"J+%,,\,(&'*%*"'?'."M+&(&'*9"+6')+,"M(+&'*%< 6*%9,(6"'*9'(%' .<.&'^"\$9"+%2"5+<'2"*Mg.6"&/'?'."0(B,("C@?'&"D">(',"\$E"0**<7(%+'*%<'G(,,".B+),+)." G?'.'?'<'?'."*Mg.6'(%*%&('&)&M&'+'('+'."7^"0(B,("C@?'&"D">(',"\$E"0**<7(%+'*%<'G(,,"<.1*B."+%7' <.5,+6."+%2"C.B(.G"J+%,,\,(&'*"'?'."0(B,("C@?'&"D">(',"\$E"0**<7(%+'*%<'9%7&'*"'?'?+B."+M(+&'*%<'6*%9,(6" *9'(%' .<.&'*%*%G+<7&".('?'<'5+<'2^"

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>?'."0(B,("C@?'&"D">(',"\$E"0**<7(%+'*%<'G(,,"+,&*%*(92"'?'."5+<'(.&'?'+'*"'?'."2"?+B."?'."*55*%<')%(2" '*&)"M1('"+% "\$15+6" "I'+'. 1 .%'" '*"'?'."C.B(.G"J+%,,\,+,+&'9(B."ZH]"M)&(%.&&'7+2&'5<(*%<'*"'?'." ?<+<(%@^">?'."C.B(.G"J+%,,\,G(,,"<.B(.G"'?'."5+<'(.&A"\$15+6" "I'+'. 1 .%'" '&'*"'?'."K(%+,"C.5*%<'/'+%7"+,, +'+6?'."7" 1+' .<+&/'(%'&&.&&(%@"'?'."+55*%5<+)'."&+%6'(%*%&^">?'."C.B(.G"J+%,,\,7*.&'*%*"'?'?+B."?'." 5*G.<*%<'M(+,'2"'*'+,'.<'?'."9(%7(%@&'Z9+6')+,"*%<'),(1+'."J^"

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>?(&"J*,(62"5<*%?(M('&"+M<*+7"<+@% . "*9"6*%7)6'/'"+,,"*9"G?(6?")&.<(*)&"(%%'+)<."^"\$%` . .5(%@G('?' '?'." 0*,,.@.A& " 6* 1 1 ('1 .%'" '*"'9*%&'<.+%" .%B(<*% 1 .%'" '?'+" (&'&+9./" (%6,)&(B./" +%7" 9<.. "9<* 1 " 7(&6<(1(%+'(%*%"+%7?'<+&& 1 .%'" /"'?'."C.B(.G"J+%,,\,?'&@<.+','')7."(%"'?'."(15*&('(%*%9&+%6'(%*%&^ '+' , *%<.7"'*"'?'."9+6'&"+%7"6(<6) 1 &' +%6.&'*9".+6?'<.5*%<'/'?'."(15+6"'*9"'?'."6*%7)6'"*%*"'?'."6* 15,+(%+% "' +%7&)<<*)%7(%@'6* 1 1)%(2/'+%7"+66*%)%'+M,('2'9*%<'?'."<.&5*%7.%'^">?'."(15*&('(%*%9&+%6'(%*%&^ (&' 7.&(@% .7"'*".,(1(%+'."J<*%?(M('7"0*%7)6'/'5<.B.%'" '&'<.6)<<.%6./"<.1.72"('&'."99.6'&"+%7"<.&'*%<."*%< 5<.&.<B." '?'." 6* 15,+(%+%^A&" .T)+,+66.&&' *% 0*,,.@." .7)6+'(%*% 5<*%<@+1&' *%< +6'(B('.&' G?'(. " &)"55*%<'(%@"'?'." 0*,,.@.A& ".7)6+'(%*%+, 1 (&(&'*%&^ I+%6'(%*%&^ 1+2" (%6,)7." .7)6+'(%*%+, /" <.&'*%<+(B./" <.?+M,('+'(B./" +%7" 5)%(B." 6* 15*% .%'^^ I * 1 . " 6*%7)6'/' ?*G.B.</' (&'&*% .@.&@(*)&" (%' %'+)<./" ?+<19),"'*"'?'."(%7(B(7)+,&'(%B*,B.7/'+%7c*%<'&*%7.,.,.<(*)&'*%*"'?'."7)6+'(%*%+,5<*6.&&'?'+'("<.T)(<.&' & .B.<."&+%6'(%*%&^/"(%6,)7(%@&)&5.%&(%*%<'45),&(%*%&^"

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\$%7'.<1(%(%@"'?'."+55*%5<+)'."&+%6'(%*%&^/"?'."C.B(.G"J+%,,\,1+2"6*%&(7.<'9+6'*<'(%6,)7(%@M)"*%*"' ,(1('7"'*"'?'."9*,,*G(%@R"

'?."%'+)<."+%7"B(*,.%6."*9"'?'."6*%7)6'"+"(&&)._"

'?."(15+6"'*9"'?'."6*%7)6'"*%*"'?'."6* 15,+(%+%!_"

'?."(15+6"*%<(15,(6+'(%*%&"9"'?'."6*%7)6'"*%*"'?'."6* 1 1)%(2"*%<'?'."0*,,.@. _"

5<(*%< 1 (&6*%7)6'"M2"'?'."<.&5*%7.%'/'(%6,)7(%@"'?'."<.&5*%7.%'^&"<.,.B+%'"5<(*%<'7(&6(5,(%."*%< 6<(1(%+',?"&'*%<'2"Z(9"+B+(,+M,._]"

1+(%'.%+%6."*9"+&9."+%7"<.&5.6'9),".%B(<*% 1 .%'"6*%7)6(B."*%*",.+<(%@_]"

5<*'.6'(%*%9"'?'."0*,,.@."6* 1 1)%(2_+"%7"

+%2*"'?'<'1('(@+'(%@/'@@<+B+'(%@/'*%<'6* 15.,(%@'6<6) 1 &' +%6.&'(%*%<7.<'*%<.<+6?'+"g)&'"+%7" +55<*%5<+)'."<.&*%&^)'(%*%&^"+6?'6+&."^"

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>?. "0(B("C(@?'&"D">(',\$E"0**<7(%+'*<"+,&*"?+&"'?. "7(&6<. '(*% "'* "<. B(.G"+%2"(%' .<(1"5<*'.6'(B." * "<. 1 .7(+, " 1 .+&)<.&"'*"7.'.<1 (%."G?.'?.<'?' .2"&?*),7"M. "6?+%@.7"*<"+<."%*" ,*%@.<"+55,(6+M, .^" >?. "C.B(.G"J+%., "G(, (&&). "+7.'.<1 (%+'(*%*"%"&+%6'(*%&"+%7"'?. "5+<'(.&"G(, "<.6.(B. "%*'(6. "*9"'?. " 7.'.<1 (%+'(*%*"G('?(%"9(B. "ZHJ"M)&(% .&&"7+2&*9"'?. "C.B(.G" J+%.,A&"<.6.(5"*9"+, " 1+' .<(+,&"(% "'?. " 6+&.^"" "

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('&"<+%&6<5'&"+%7"7. @<. .&"*<"*7. %2"+'&')7. %"5+<'(6(5+'(%%"@<+7)+'(%%"6.<. 1 *%(.&"+%7"5<(B(.@.7".B.%'&^"

*+ # "?&%69/"#6! &# \$5,6= "5, '(80" I')7. %'& 1+2"M. "<. 1 *B.7"9<* 1 "0*,,. @. ."?*)&(%@"+%7c*<M+<<. 7"9<* 1 "+55,2(%@"9*<"6+ 1 5)&"?*)&(%@"7). ".*7(&6(5,(%+<2"B(*,+ '(**&"*9"?'(&"0*7. ^"

L5, \$+(, '"/(0" 346,)&(*%"9<* 1 "0*,,. @. "5<. 1 (&.&/'+''. %7(%@"6,+&&. &/'+%7"*'?'<."5<(B(.@.&"*<"+6'(B('.&"9*<"+&5. 6(9(.7"5.<(*7"*9"('1 ./"+&"&. "'9*<'?"(%"'?. "&)&5. %&(*%"%*"'(6. ^" 8 *'(6. "*9"?'(&"+6'(*%"G(, "<. 1 +(%"(%"'?. "&')7. %'A&"6*%7)6"9(, . "+%7"G(, "M. "5.< 1 +%. %',2"<. 6*<7. 7"*%"'?. "&')7. %'A&" +6+7. 1 (6" '<+%&6<5'^" 0*%7('(%&" 9*< "<.+7 1 (&(*%" 1+2" M. " &5.6(9(.7" (% " '?. "&)&5. %&(*%"%*"'(6. ^"

>X\$5%, '"/(0" J.< 1 +%. %"''. < 1 (%+'(%%"*9'&')7. %"'&'+)'&"+%7". 46,)&(*%"9<* 1 "0*,,. @. "5<. 1 (&.&/'5<(B(.@.&"'+%7" +6'(B('.&^" >?(&"+6'(*%" G(, "M. "5.< 1 +%. %',2"<. 6*<7. 7"*%"'?. "&')7. %'A&" +6+7. 1 (6" '<+%&6<5'^"

+?"7&)"'(6 "96 D- #',, '"/(6 &(-1"/6 : +8/+0" F7 1 (&(%" '*/" *<"+ 7. @<.. " +G+<7.7" M2/" '?. "0*,,. @. "1+2"M. "<. B*` .7"9*<"9<+)7/" 1 (&<. 5<. &. %'+ '(%"(%"*M'+(%@"'?' .7. @<.. "*<"B(*,+ '(**%9"0*,,. @. "5*,(6.&/"?'."I')7. %"0*7. "*9"0*%7)6"***<"9*<*"?'<.&.<(*)&"B(*,+ '(**&"6* 1 1 ('.7" M2"+&')7. %"5<(*<"*%". %<*,, 1 . %'"*<@<+7)+'(%%^"

2 ')JJ"'-(86 : +8/+0">?. "0*,,. @. "1+2"G('??*,7"+G+<7(%@"+7. @<.. "*'?. <G(&.". +<% .7")% '(, '?. "6* 1 5, . '(**% *9" '?. "5<*6. && &. "'9*<'?" (% "'?(& J*,(62/" (%6,)7(%@"'?. "6* 1 5, . '(**% *9"+,, &+%6'(*%&"(1 5*&. 7/"(9"+%2^"

3)J+/0"V'?. < &+%6'(*%&" 1+2"M. "(1 5*&. 7"(%&' .+7"*9/"*<(%"+77('(%"'*/"?'*&. "&5.6(9(.7"?. <. ^" I.<B(6./".7)6+'(%%/"*< "&. +<6?"5<*g. 6'&" 1+2"+, &*M. " +&&(@%. 7^"

S5%)'\$%+6L&(7)'"(, 0" X*<. "'?+% "%%. "*9"?' . "&+%6'(*%&,"(&' .7"+M*B. " 1+2"M. "(1 5*&. 7"9*<"+%2" &(%@, . "B(*,+ '(**%^"

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J??\$, @'>!C)!N+% -7&/!8.!L&+###! P \$ = 6\$.!L+, %&'8, ', E!M.8%\$@ - .\$.!

\$9"?. "<.&5*%7.%'(&'9*)%7"<.&5*%&(M,. "9*<"+"B(*,+('%"*9"?. "0*,,. @.A&" ; (&6<(1 (%+'(*%/"O+<+&& 1 .% '/'

B(*,+'.7''?.J*(,62^>?.5<('.&"G(,,"?+B."?."*55* <')%('2''*&)M1('"+%\$15+6''I'+'.1.%''*' '?."O.+<(%@"0*11(''..'"/"+%7''?'."O.+<(%@"0*11(''..'G(,,"<.B(.G''?'."5+<('.&A"\$15+6'' I'+'.1.%&/'"+%7''+,,"*?'<'1+'<(+,&"(%''?'."6+&."Z<.7+6'.7''+&"%.6.&&+<2''+7''+55<*5<(+'.J'' (%6,)7(%@"'?. "K(%+,,"C.5* <'"+%7''+6?.7''+55.%7(6.&/'"(%"&&.&&(%@"'?. "55<*5<(+'. "&+6'(*%^^"

>?. "O.+<(%@"0*11(''..'A&<.B(.G"(&"7*6)1.%'+<2''*%,2''+7''%*''?. +<(%@"(&"?.,7^"K*,,*G(%@" &' +%7+<7''5<+6'(6.'/'?'."0(B(,"C(@?'&"D">(',."\$E"0**<7(%+'* <"G(,,"M." "+B+(,+M,.' '?<*)@?'*)" 7.,(M.<+('%%&''*"+77<.&&"T).&'(%&"+M*)''''?. "J*(,62''+7''<.,+' .7''5<*6.7)<.&^"F%2''7.6(&(*%''*' G+<%/'<.5<(1+%7''* <"7(&1(&&" +9+6), '2"1.1M.<'<.T)(<.&" + 'G*:'?(<7&"1+g* <'2''*9''?'." 1.1M.<&"6*%7)6'(%@"'?. "?. +<(%@"/'?'."B*'.("".+6?("%&' +%6." '*M." '+` .%"M2"&.6<."M+,,*'A''"

>?. "O.+<(%@"0*11(''..'G(,,"1+`." +<.6*11.%7+'(*%''*''?'." ;. +%*9''?. "0*,,.@./"&)Mg.6'' '*''?.'(<"55<*B+,^" F66.5'+%6." *9''?. "O.+<(%@"0*11(''..'A&"7.6(&(*% "G(,,"%* <1+,2" M." .45.6'.7^">?. "0(B(,"C(@?'&"D">(',."\$E"0**<7(%+'* <"G(,,"%*' (92''?. "5+<('.&"*9''?. "O.+<(%@" 0*11(''..'A&"7.6(&(*% "%G<'(%@">?. "O.+<(%@"0*11(''..'A&"7.6(&(*% "%7(&6(5,(%+<2''+6'(*% 1+2"M." +55.,.7''*''?. "J<.&(7.% "M2". ('?<'5+<2^" F%"+55.,,1)&"M."&)M1(''.7''(% "G<'(%@" '*M*''?''?. "0(B(,"C(@?'&"D">(',."\$E"0**<7(%+'* <"+%7''?. "J<.&(7.% "'G('?'(9(B."ZHJ"M)&(% .&& 7+2&"*9"<.6.(5''*9''?. "O.+<(%@"0*11(''..'A&"7.6(&(*% "%7(&6(5,(%+<2''+6'(*% ^" d ?.%"+%"+55.,,"

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