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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 $\frac{. \& /)0l. \& /)' +, R^F 6* 15, +(\% + \% "" * < " < . \& 5* \% 7. \% "" 5 + < (6(5 + '(\% @ (" \% " + < . \& *,)') (* \% " 5 < * 6. \& \& \wedge}$

b $\frac{2') (+, .R^F\%(\%7(B(7)+, "G?*" 1+2''?) + B. (\%9* < 1 + '(* \% " < ., .B + \% "" '*' + " < .5* < ' * 9'' J < * ?(M(' .7''0* \%7)6'^\wedge} F^G(' . \& \& " 1 + 2'' M. " + \&') 7. \% /' + \% ". 15, * 2. . / "" * < " + "" ? (< 7'' 5 + < 2''\wedge}$

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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?+%@.&"
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&')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''''*''
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. 15,*2. &"*9"?' .0*,,.@."/(%6,)7(%@"9+6), '2^"O) 1+% "C.&*)<6.&"G(, "9*^<G+<7"+%2"<.5*^<'&"
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7+2" M2" 6+,,%@" 0+15)&" I+9.'2" +' ZW#W]" #HQ:#HQ" 0+% " +&&(&" G('?'<.+&*%+M., "
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- b 0?+%"@."(%"G* <"&6?.7),."* <"g*M"+&&(@% 1.%'_"
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>?. "0*,,@.A&"+M(,'2"*"(%B.&'(@+' ." +%7"<.&5*%7"9),,2"*"+<.5*<" 1+2"M.",(1(' .7"9"'?' ."6* 15,+(%+%'" <.T) .&'&"+%*%2 1('2" *<" 7.6,(% .&" '*" 5+<'(6(5+' ." (%" +% " (%B.&'(@+'(*%^">?. "0*,,@." G(,"/' ?*G.B.</' 5)<&)." *?'<" &' .5&" '*", (1(' "'?' ." .99.6'&" *9" '?. "5*%'(+," J<*?(M(' .7" 0*%7)6'" +%7" 5<.B.%" ("&"<.6)<<.%6.

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9*%<"+%@)+@. "+&&(&'+%6. " *%<+66* 1 1 *7+'(*% " *9"7(&+M(,'(. &^" F, '?*)@?'<.+&*%+M, . "+' . 1 5'&" G(, "M. "
1 +7. " '* " &6?.7), . " 5<*6. .7(%@&" 6*%&(&' . % "' G('?' +%" +7B(&*<A&" +B+(,+M(,'2/"?' . " 5<*6. &&" G(, "%*" "M. "
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I*)"\$-+*5:F' 1-#)8()"*'+

\$9"Z!] "'?. "0(B, "C(@?'&"D">(', . "\$E"0**<7(%+'*<"7. ' .<1 (%.&"'?'+'?' . "6* 15,+(%+% 'A&"<.5*<" 1)&" 5<*6. .7"'?<*)@?" ; (&6(5,(%+<2" C.&*,)')(*%_ "Z#]" . ('? .<"'?. "6* 15,+(%+% "'*<"<.&5*%7. %'"7.6,(% .&" '*5)<&)." F7+5'+M, . "C.&*,)')(*%_ "*<"ZW]" . ('? .<"'?. "6* 15,+(%+% "'*<"<.&5*%7. %'"9+(&" '*<.&5*%7" '*"'?. " 0(B, "C(@?'&"D">(', . "\$E"0**<7(%+'*<A&"(%T)(<2"< . @+<7(%@"F7+5'+M, . "C.&*,)')(*%/"'?. "0(B, "C(@?'&"D">(', . "\$E"0**<7(%+'*<"G(, "%*'(92"M*?'?)"5+<'(.&)"(%G<('(%@"'?'+'"'?. "6* 15,+(%+"G(, "5<*6. .7"'?<*)@?" ; (&6(5,(%+<2" C.&*,)')(*%^ ">?. "0(B, "C(@?'&"D">(', . "\$E"0**<7(%+'*<A&" G<(' . %%"*'(9(6+'(*% " '*"'?. " <.&5*%7. %'" + %7"6* 15,+(%+% "G(, "(%6,)7. R"

- b >?. "6* 15,+(%+% 'A&"%+ 1 . _"
- b 8+')< . "*9"'?. "6* 15,+(% _"
- b I5.6(9(6"5*, (62"B(*,+(*%&"+, ,. @. 7"Z. ^@^/"7(&6<(1 (%+'(*%*"%"?' . "M+&(&"*9"<+6. /"?+<+&& 1 . %'"*% " ? . "M+&(&"*9"<., (@(%%/"< . '+,(+(*%]_"
- b ;+'. Z&]"*9"+, ,. @. 7"5*, (62"B(*,+(*%Z&]_"
- b j *6+'(*%Z&]"*9"+, ,. @. 7"5*, (62"B(*,+(*%Z&]_"
- b Y<(.9"7.&6<(5'(*%*"9"'?. " +, ,. @+'(*%Z&]_"
- 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.&&_"
- b F"&+' . 1 . %'"'?'+'"'?. "5+<'(.&"?+B. " '?. " <(@?' "'* "<B(.G"+%7" (%&5.6" +, ,. " .B(7. %6. " M. (%@" 6*%&(7. <.7"7)<(%@"'?. " ; (&6(5,(%+<2" C.&*,)')(*% "5<*6. &&/"6*%&(&' . %'"G('?'?'(&"J*, (62_ "+%7" ""
- b F"&+' . 1 . %'"< . @+<7(%@"'?. "0*,,. @. A&"5*, (62"< . ,+ . 7"'*%9+, & . "<.5*<'&"+%7" 1 +` (%@"` %*G(%@, 2" 9+, & . "&+' . 1 . %'"&7)<(%@"'?. " ; (&6(5,(%+<2" C.&*,)')(*% "5<*6.&&^"

- b F%*"B.<B(.G"*9"'?. "5<*6.7)<+,"*5'(*%&"+%7"5<*6.&&/(%6,)7(%@"F7+5'+M,."C.&*,)'(*%"+%7"
; (&6(5,(%+<2"C.&*,)'(*%^"
- b 345,+("?'+'?+'?'."&')7.%'" ?+&" + "<(@?'" '*"+%" +7B(&*<"*9"'?. (<"6?* (6."7)<(%@"?'?. "5<*6.&&" +%7"
5<*B(7."+" (&"*9"0*,,@." . 15,*2..&"<+(% .7"+&" +7B(&*<")5*%<.T) .&' ^"
- b >?. "0*,,@.A&" +,6*?**, "+%7"7<)"@+ 1% .&' 2"5*, (62^"
- b >?. "0*,,@.A&" 5*, (62"5<*?(M('(%@"<. '+, (+(*%^"

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\$%B.&'(@+'*<"Z[\$%B.&'(@+'*<]" '*6*%7)6'" + "<.+&*%+M,./" (15+<'(+,/" +%7"5<* 15'" (%B.&'(@+'(*%*"9"'?. "
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'*"+B*(7" +%2" 5*'.%'(+, " 6*%9,(6" *9" (%'.<.&'/" +%7" G?* 1+2" M.&" 6*%7)6'" + "9+<" +%7" .T)(' +M,."
(%B.&'(@+'(*%*"9* <"+, " 5+<'(.&'(%B*,B.7^">?. "0(B, "C(@?'&"D">(', ." \$E" 0**<7(%+'*<"G(, " %*(92"?' . "
5+<'(.&'(%G<'(%@"*9"'?. "%+ 1. "9"'?. "7.&(@%+' .7"\$%B.&'(@+'*<+"?' . "'(1. "'?. "0(B, "C(@?'&"D">(', ."
\$E" 0**<7(%+'*<(&&).&"?' . "%*(6. "9"(%B.&'(@+'(*%^">?. "5+<'(.&'G(, " ?+B. " ?<. "ZW]M)&(% .&&"7+2&"*"
Mg. 6" '"'?. "\$%B.&'(@+'*<A&"&., .6'(*%*"%"?' . "M+&(&"*9" M(+&"*<"6*%9,(6" *9" (%'.<.&' ^\$9' . ('? .<"*9"'?. "
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&)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+'(*%')("'
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>?."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 > ? . " G < (' . % " 6 * % & . % " G (, , (% 9 * < 1 " ? . " 6 * 1 5 , + (% + % " + % 7 " ? . " < . & 5 * % 7 . % " ' ? + " . (' ? . < 6 + % " < . T) . & " ' * " . % 7 " + 7 + 5 ' + M , . "<. &*,) '(*% " + " + % 2 " (1 . " + % 7 " 5) < &) . " 9 * < 1 + , < . & * ,) '(*% ^ " d < (' . % " 6 * % & . % " G (, , + , & * " (% 9 * < 1 " 5 + < (. & " ' ? + " (% 9 * < 1 + (* % " @ + ' ? . < . 7 " + % 7 ") ' (, (a . 7 " (% " + 7 + 5 ' + M , . "<. &*,) '(*% " M 2 " + % 7 " M . ' G . . % " ' ? . " 5 + < (. & " 6 + % * * " M . ") & . 7 " (% " + % 2 " * ' ? . < " 0 * , , . @ . " 5 < * 6 . & & / " (% 6 ,) 7 (% @ " 9 * < 1 + , < . & * ,) '(*% " / " (9 + 7 + 5 ' + M , . "<. &*,) '(*% . % 7 & " + % 7 " 9 * < 1 + , < . & * ,) '(*% " M . @ (% & " * < < . &) 1 . & _ "

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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 " * ' ? . < & _ "

b 0 * 1 5 , + (% + % ' & / " < . & 5 * % 7 . % ' & / " + % 7 " * ' ? . < " 5 + < ' (6 (5 + % ' & " (% " + 7 + 5 ' + M , . "<. &*,) '(*% " * 9' . % " M . % . 9 (" G ? . % " < . & * ,) '(*% " 5 < * 6 . & & . & " + % 7 " *) ' 6 * 1 . & " + < . " ' + (, < . 7 " ' * " 1 . . " ' ? . (<) (T) . " % . . 7 & " + % 7 " (% ' . < . & ' & _ "

b 0 * 1 5 , + (% + % ' & " + % 7 " * ' ? . < " 5 + < ' (6 (5 + % ' & " (% " + 7 + 5 ' + M , . "<. &*,) '(*% " 1 + 2 " 9 (% 7 " (") & . 9) , " * " 1 . . " G (' ? + " < . & 5 * % 7 . % " ' G ? * " + 6 ` % * G , . 7 @ . & " ' ? . " &) M & " + % 6 . " * 9 " ' ? . ") % 7 . < , 2 (% @ " . B . % ' & " + % 7 " G ? * " + 6 ` % * G , . 7 @ . & " ' ? + " 6 * 1 5 , + (% + % ' & " * < " 5 + < ' (6 (5 + % ' & " ? + B . " < . 5 * < ' . 7 " . 4 5 . < (. % 6 (% @ " ? + < 1 " + & " + < . &) , ' _ "

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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'(%'<.&'A"\$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."*%*",.+<(%@_]"

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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 "%6 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(*,+ '(%^"

!

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+,,*'^^

>?.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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