





V&%cQ'=0'\*0Q' ] '96/II6/J6/6;6/85, I\*HL\*FL'\_A@0?`0

! "#\$%&&' (") '\*%++ "%, "% - "%). /'''

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B<"#5F f )%571%Q'=0Q'B&2-)%'[[Q'B0'd0Q'\*&%51<FB#)88).>Q'60Q' S .4"#7/<Q'=0'g0Q'[%3"%c1%Q'd0'V0Q' ] '

! "#\$%&&' ( " ) '\* "% ++ "% , "% - "% ) . / ' ' ,

K''



! "#\$%&&' (") '\*"%++"%,"% "-"%). /



96/II6/J6/6;6/85, f\*HL\*FLK' ] '6&"82&<Q'd0'=0'\_A@O?Q' S "#. /'A@FAD`0'G/' +6+, /, +5. d' / ( )) (d  
\*) ; )6-90)5, d' -5') (58d-7d, ( /588)A4/6d [ - 0)5d/5\*d0)5d\*4(+5. d. )5\*) (d, ( /58+, + -5'  
k41%3&#&% .&'T#&5&%7"7)1%10' = 9 &#). "%'41\$%5&2)%+ '=551.)"7)1%'A@O?'41%3&#&% .&Q'  
4)% . )%%"7)Q'C6Q' ; %7&8'\*7"7&50' /77T5HaaXXX0. 1\$%5&2)%+01#+a81.5a. 1%3&#&% .&aA@O?F  
. 1%3&#&% .&F&LT1FT#1+#"9F+\$)8&0T83j53-#5%n&I&IA&EJmD'

V&%<>Q'd0' S 0Q' ] '96/II6/J6/6;6/85, f\*HL\*FL\*\_A@O?Q' S "#. /'A@FAD`0' L+5\*7465)88d9( /, +')8d/8d8)67^  
' / ( )d7- ( d' -458)6- (8dk41%3&#&% .&'T#&5&%7"7)1%10' = 9 &#). "%'41\$%5&2)%+ '=551.)"7)1%'A@O?'  
41%3&#&% .&Q'4)% . )%%"7)Q'C6Q' ; %7&8'\*7"7&50'  
/77T5HaaXXX0. 1\$%5&2)%+01#+a81.5a. 1%3&#&% .&aA@O?F. 1%3&#&% .&F&LT1FT#1+#"9F  
+\$)8&0T83j53-#5%n&I&IA&EJmD'

M- "%5Q' g0Q'R2' - )%Q' g0Q'R)bb1%5Q' S 0Q'R1189 "%Q'd0Q'6 "%%5&%Q'\*0Q'V""Q' : 0Q'U)-&#"Q'V0Q'  
96/II6/J6/6;6/85, f\*HL\*FLK' : 1T1#&>Q'U0Q' ] ' : "%+Q' S 0'\_A@O?Q' S "#. /'A@FAD`0' : , ( /, . + )8d  
7- ( d, 2)d5)A, d=KKcdd " d' )S( /, + -5d-7d82/(+5. d+55- ; /, + ; )d, ) /'2+5. d9( /, +')8dk41%3&#&% .&  
T#&5&%7"7)1%10' = 9 &#). "%'41\$%5&2)%+ '=551.)"7)1%'A@O?'41%3&#&% .&Q'4)% . )%%"7)Q'C6Q'  
; %7&8'\*7"7&50' /77T5HaaXXX0. 1\$%5&2)%+01#+a81.5a. 1%3&#&% .&aA@O?F. 1%3&#&% .&F&LT1F  
T#1+#"9F+\$)8&0T83j53-#5%n&I&IA&EJmD\*

\*  
96/II6/J6/6;6/85, f\*HL\*FL\*\_A@OAQ'd\$%&'AOFA?`0\*! / ( ) (d/5\*d8- '+/6d, ( /58+, + -5d-7d, ( /588)A4/6d  
)096-@) )8d+5d, 2)d [ - ( \96/ ' )'k41%3&#&% .&'T#&5&%7"7)1%10' P"7)1%"2'4"##&#Y&-&21T9&%7'  
=551.)"7)1%'A@OA'41%3&#&% .&Q'=72"%7"Q'R=Q' ; %7&8'\*7"7&50'

96/II6/J6/6;6/85, f\*HL\*FLK'\* . /19 ">#Q'\*0Q' ] '=2- "#&cQ'40\*\_A@OAQ'd\$%&'AOFA?`0\*\$, 2+ '/6<d6) . /6<d  
/5\*d046, + '46, 4( /6d' -58+\*) ( /, + -58d+5d' / ( ) (d' -458)6+5. d849) ( ; +8+ -5dk41%3&#&% .&'  
T#&5&%7"7)1%1P"7)1%"2'4"##&#Y&-&21T9&%7'=551.)"7)1%'A@OA'41%3&#&% .&Q'=72"%7"Q'R=Q'  
; %7&8'\*7"7&50'

\*  
R1189 "%Q'd0Q'\*"-) .>"5Q' S 0Q'6 "%%5&%Q'\*0Q'







\*1\$7/&#%'=551.)"7)1%'31#'41\$5&21#M8\$. "7)1%'8'\*\$T&#-5)1%'A@0'B)"%%"\$2'  
41%3&#&%.&Q' f )22)" 95b\$#+Q' !=Q' ; %)7&8'\*7"7&50'

V&%cQ'=0'\*0Q' ] '96/II6/J6/6;6/85, f\*HL\*FL\*\_A@0@Q'C.71b&#^0' d )665)88&0 - \*)6&-7&849)(;+8+-5&7-(&  
'-458)6-(8&+5&, (/+5+5. H&T096+ '/,+ -58&7-(&6)/(5+5. &-4, '- 0)8&41%3&#&%. &'T#&5&%7"7)1%1J'  
\*1\$7/&#%'=551.)"7)1%'31#'41\$5&21#M8\$. "7)1%'8'\*\$T&#-5)1%'A@0'B)"%%"\$2'  
41%3&#&%.&Q' f )22)" 95b\$#+Q' !=Q' ; %)7&8'\*7"7&50'

96/II6/J6/6;6/85, f\*HL\*FL\*\_A@KQ'C.71b&#^0' 12)&046,+ '46,4(/6&849)(;+8+-5&8'/6)&XL : : YH&  
T\*)5,+7@+5. &849)(;+8-(&'46,4(/6&' - 09), )5 '+)8&41%3&#&%. &'T#&5&%7"7)1%1J'\*1\$7/&#%'  
=551.)"7)1%'31#'41\$5&21#M8\$. "7)1%'8'\*\$T&#-5)1%'A@K'B)"%%"\$2' 41%3&#&%.&Q'  
61\$571Q': ^Q' ; %)7&8'\*7"7&50'

96/II6/J6/6;6/85, f\*HL\*FL\*\_A@KQ'C.71b&#^0' 12)&046,+ '46,4(/6&849)(;+8+-5&8'/6)&  
XL : : Yk41%3&#&%. &'T#&5&%7"7)1%1J'U1.><' S 1\$%7")%'=551.)"7)1%'31#'41\$5&21#M8\$. "7)1%'  
"8'\*\$T&#-5)1%'A@K'B)"%%"\$2' 41%3&#&%.&Q'B#&.>&#)8+&Q' 4CQ' ; %)7&8'\*7"7&50'

d")%Q'\*0Q' ] '96/II6/J6/6;6/85, f\*HL\*FL\*\_A@KQ'C.71b&#^0' %(- ')88&-7&2+(+5. &+5, )(5/,+ -5/6&  
(/ \*4/, )8&/8&7/ '46,@&0) OS)(H& " \*; /5, /.)8&/5\* &'2/66)5.)8&W157&#T#&5&%7"7)1%1J'U1.><'  
S 1\$%7")%'=551.)"7)1%'31#'41\$5&21#M8\$. "7)1%'8'\*\$T&#-5)1%'A@K'B)"%%"\$2'  
41%3&#&%.&Q'B#&.>&#)8+&Q' 4CQ' ; %)7&8'\*7"7&50'

96/II6/J6/6;6/85, f\*HL\*FL\*\_A@JQ'C.71b&#^0' :49)(;+8+5. &+5, )(5/,+ -5/6&8,4\*)5,8&  
k41%3&#&%. &'T#&5&%7"7)1%10'U1.><' S 1\$%7")%'=551.)"7)1%'31#'41\$5&21#M8\$. "7)1%'8'  
\*\$T&#-5)1%'A@J'B)"%%"\$2' 41%3&#&%.&Q'R#"8' : &71%Q' f \ Q' ; %)7&8'\*7"7&50'

9&%&!\*\$ ( )F!E!) \$!9P\*

96/II6/J6/6;6/85, f\*HL\*FL\*\_A@A?Q'C.71b&#^0' JFOK^0' ! ( )/,+5. &, (/40/^+57-(0)\*&'/(&'6+0/, )&+5&  
'6+5+ '/6&8),,+5. 8'k41%3&#&%. &'T#&5&%7"7)1%10'C/)1'41\$5&2)%+'=551.)"7)1%'A@A@'=%%"\$2'  
41%3&#&%.&Q' 412\$9b\$5Q'C6Q' ; %)7&8'\*7"7&50'/77T5Haa<"TTF\$T21"8&8F  
)9"+&505?0"9" c1%"X50. 19a@ED?0J8EF"D"&FD@GAF"@GFDb.. IE."JKKoa"1..FA@A?F  
T#1+#"9F31#FX&b0T83'

Y"%+Q' \ 0Q' ] '96/II6/J6/6;6/85, f\*HL\*FL\*\_A@AQ'C.71b&#^0' AJF?@^0' "996+ '/,+ -58&-7&2,2)&  
, (/58,2)-(, + '/6&0 - \*)6&-7&'2/5. )&+5&' -458)6+5. &849)(;+8+-5&41%3&#&%. &'T#&5&%7"7)1%10'  
C/)1'41\$5&2)%+'=551.)"7)1%'A@A@'=%%"\$2' 41%3&#&%.&Q' 412\$9b\$5Q'C6Q' ; %)7&8'\*7"7&50'  
'/77T5Haa"%<32)T0. 19ac/27>a, / /<a'

Y"%+Q' \ 0Q' ] '96/II6/J6/6;6/85, f\*HL\*FL\*\_A@AQ'C.71b&#^0' AJF?@^0' %(/',+ '/6&8, (/.)+ )8&7-(&  
'/88)88+5. &046,+ '46,4(/6&849)(;+8+-5&' - 09), )5 '+)8&41%3&#&%. &'T#&5&%7"7)1%10'C/)1'  
41\$5&2)%+'=551.)"7)1%'A@A@'=%%"\$2' 41%3&#&%.&Q' 412\$9b\$5Q'C6Q' ; %)7&8'\*7"7&50'  
'/77T5Haa"%<32)T0. 19ac/27>a, / /<a'

! "\$%&&' ( ")' \*"%++ "%, "% - "%). / "'

OE''

Y"%+Q' \ 0Q' ] '96/II6/J6/6;6/85, f\*HL\*FL\*\_A@OIQ' P1 - & 9 b&# 'JFI`0' %(/', + '/6&8, (/ , . +) 8&+5&2) 69+5. &  
849)(;+8) 8&45\*)(8, /5\*8, / . ) 8&-7&'2/5. ) &k 4 1%3&#&% . &'T#&5&%7"7) 1%I0'C /) 1' 4 1\$%5&2)% +'  
=551. )"7) 1%'A@OI' =%%\$ "2' 4 1%3&#&% . &Q' 4 12\$ 9 b\$5Q' C 6Q' ; % )7&8' \*7"7&50'  
/77T5Haa. \$571 90. - &%70. 1 9 a=K ( = 4 EDBJY@ODD ( IKGMG4 =EO=GE?ME? I a3) 2&5aAKbE. EAbD. b  
KDb?3"ADG"AAJD3...? .3?0T83'

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96/II6/J6/6;6/85, f\*HL\*FL\*\_A@OKQ' S "#. /'OFA`0'D), ) ( 0+5+5. &/&'6+) 5, \_8&(/ /\*+5) 88&7- ( &. ) 5\*)(&  
, (/58+, +-5H&! 6+5+ '/6&); /64/, +-5&/5\*8( ) ' - 00 ) 5\*/ , +-5&k 4 1%3&#&% . &'T#&5&%7"7) 1%I' C /) 1'  
4 1\$%5&2)% + '=551. )"7) 1%'A@OK' \*T#)% + '4 1%3&#&% . &Q' [%8&T&%8&% . &Q' C 6Q' ; % )7&8' \*7"7&50'  
/77T5HaaXXX01 /) 1. 1\$%5&2)% + 01#+a#&51\$#. &5aY1. \$ 9 &%75aC 4 = q A@ ( ) % "2 q A@W#1+#" 9 q A@F  
q A@\*T#)% + q A@A@OK0T83'

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96/II6/J6/6;6/85, f\*HL\*FL\*\_A@OGQ' P1 - & 9 b&# 'KFO@`0'









A@OE' %(+5'+96)k+5; )8,+./, -(0' '6'-2-6<k\*(4. k/\*\*\*+', +5<k/5\*k0)5,/6k2)/6,2k8)(;+' )8k5) ) \*8k /88)880)5,0'=2. 1/12Q'Y#\$+'=88).7)1%Q'"%8'S &%7"2'6&"27/'\*&#-).&5Q'B1"#8'13'4\$<"/1+" 41\$%7<'\_sEIQIGE`0'P17'3\$%8&80'

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A@OE' %(+5'+96)k+5; )8,+./, -(0'I(/58k/77+(0/,+; )k,(/+5+5. k7-(k0)5,/6k2)/6,2k8)(;+' )k9(-;+\*)(80' =>#1%'R"<'4199\$%)7<'M%81X9&%7'(\$%8'\_sDQE@@`0'P17'3\$%8&80'

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A@OD' !-^+5; )8,+./, -(0'e5+; )(8+,@k-7k" \(-5k! -0045+,@^S/8)\*kM)/6,2<k75\*)9)5\*)5,^6+;+5.<k \$A,(/'4((+'46/(<k/5\*kV- '/,+5/6k\$\*4'/,+5k%(-.(/0kXe^" !MT\$V\$Y0'Y&T"#79&%7'13' Y&-&21T9&%7Q': /&' ; %)-&#5)7<'13'=>#1%'\_s??@QGOG`0'P17'3\$%8&80'

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A@OA' %(+5'+96)k+5; )8,+./, -(0'I)'25-6-. @k7-(k\*+8,/5')k'-458)6+5. k849)(;+8+-5k,(/+5+5.0'4122&+&' 13'M8\$. "7)1%Q': /&' ; %)-&#5)7<'13'=>#1%'\_sIOK`0'(\$%8&80'

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A@OO'' %(+5'+96)k+5; )8,+./, -(0!'2+6\*k,)/'2)(k()6/,+-582+9k,2)(/9@k[+,2k'2+6\*( )5k[+,2k+5,)(5/6+J+5. k \*+8-(\*) (80'4122&+&'13'M8\$. "7)1%Q': /&' ; %)-&#5)7<'13'=>#1%'\_sAQ@@@`0'(\$%8&80'

A@@I'' %(+5'+96)k+5; )8,+./, -(0'I2)k046,+ '46,4(/6k849)(;+8+-5k8'/6)Hk" k'-57+(0/, -(@k7/' , -(@k /5/6@8+80'=551.)"7)1%'31#'41\$%5&21#'M8\$. "7)1%"%8'\*\$T&#- )5)1%'\_sOQE@@`0'(\$%8&80'

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A@@K' %(+5'+96)k+5; )8,+./, -(0'e8+5. k,2)k0/(82/'\k+5,)(/' ,+-5k0),2-\*k+5k9/( )5,k'-5846,/,+-50' 4&%7&#31#'M8\$. "7)1%"2'Y&-&21T9&%7Q'M-"2\$"7)1%Q'"%8'U&5&"#. /Q': &L"5'= ] S' ; %)-&#5)7<F











