

!"#\$%&&#"(!"#\$\$%&&)#*+,-.)*/(0%1+.2%*(#\$(3*/,) &4(5\$\$),+.%'(5"2&."#*/(6*.%" +7.)8%(9%:)+(:.<:)%&([27=%%4+>2\)+2\)#47%:<\(](#) !"#\$\$%&#'()%*+*, (@@@@

!"#\$%&'()* *!

!"#\$%&'()*+,-./0.123456789:;=>?@AB% \$++56121*. 'C% "#\$%'&'(\$)"#!\$'#+, -"' . /O. #\$. ""1+22-. \$3' (\$+. *43&+55! \$66"&". 3""5% =#?#!!!! &'()*+"89' *:56+*1; % <D; . /** (8%AAA% E#?#0000 &'()*+"8F2)59' *:56+*1; 8%GHH@%

+&%\$, '-!. //)(*'O1*'2!

=2/*9' *:56+*1; 8% 6. <5++ . 68%&'()*+"%\$50261/5' 1% %?<<*)2158&/56(** (%J57"" .). (:;% 'E>+* 5++% %\$5+*(' 8% @AGK,%065+5' 1% =2/*9' *:56+*1; 8%4. (56%2' 3% . ; 75%MM#%N. O5% 6. <5++ . 6% <D6*1** (8%AGP,@AGK8% 156*/%200. ** 1/5' 1%AG@, @AGP% =2/*9' *:56+*1; 8%?++ . 7*215% 6. <5++ . 68%&'()*+"% %?<<*)215R27>); 8% 156271*:5% =53*2%\$1>3*5+8%AGA,%AGK% =2/*9' *:56+*1; 8%?++*12' 1% 6. <5++ . 68%&'()*+"% %?<<*)215R27>); 8% 156271*:5% =53*2%\$1>3*5+8%AAB,@AGA% T655' %4*:56%N* ("S7" . .)8%M2' (>2(5%?61+%J527" 568%GHHP,GHHK8%S>/ /56+%GHHK,@AAA%

3\$4,(%&'()* *2!!

-.. /0112! %3. 4&#'
=7U558%N5*3*%?#8%2' 3%2/5+%&#% . 61567*8&+6""55\$+. ' #1+22-. \$3' (\$+. *' . /"9"(: +&; < ("&' 3(\$+. =*4*>?"(+&\$3' #' . /*(?3' #'4AA&+ ' 3?#%V5O%F. 6WC%4. >1)53(58%AGX#%
=7U558%N5*3*%?#8%2' 3%2/5+%&#% . 61567*B?""@(?335*+6* <. ("&. ""(">"5"" &3?=-*4*>?"(+&\$3' #'1' 5"D%' 5"/ 4AA&+ ' 3?7V5O%F. 6WC% 5156%M2' (8%AAH#*

-.. /056#7%. 99&)%7. : 0'

=7U558%N5*3*%?#8%2' 3%\$Y' *5))5%V*7.)5%\$5Z. ++8%53+#% \$, \$(' #E &\$(\$, *455""552". (*' . /*@)' #-' (\$+. #%- . /O>156+% 2' 3%- . /O. +*1. ' %\$(*12)% 65++[912""%S12159' *:56+*1; % 65++8%AG\#%"110C[[773*(12)065++#. 6([3O25% &3*1. 6+]065<275C%"110C[[773*(12)065++#. 6([3O25[* 16. #""1/)% \$5Z. ++8%\$Y' *5))5%V*7.)58%N5*3*%?#%=7U558%2' 3%4*7" 263%\$5)<58%53+#%

=7U558%N5*3*%?#0%2' 3%\$Y' *5))5%W/*7.)5%\$5Z. ++0%53+#%

"110+c[O27#7.). +1215#53>[650. +*1. 6; [7.))571*. ' +[15f1(5' 53[06. <5++*. ' 2),O6*1** ([06. <5++*. ' 2),
O6*1** (<. 6, "52)1"7265[%

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=7U558%N5*3*%?#8#2' 3% . 61568%2/5+%&#%d0' 15615f1c%D6*1** (%=27*** 5+%2' 3%4"51. 6*7#e%E &\$(\$, *I-(-&"5=
1+##' %+&' (\$) "C*4#, +&\$(?2\$3C*4-(+. +2+-58%53*153%c; %?' ' %N*)%\$>* ' %2' 3%+2c5)% 5356+5' 8%\$06** (568%
@A@GC%PX,B@#%

%

=7U558%N5*3*%?#dE5)*5:5%' %F. >6+5)<%2' 3%F. >6%?c)*1; %d. %.. ** %d >c)*7%2' 3%\$7" .)26); %- . ' :56+21*. ' +#e%
@VA#'. ' (\$+. *8+\$. (5=8-%#5?\$. , \$. *>?'(' +&\$3*' . /*- . /0. +*1*. ' 8%53*153%c; %L. "' %4#%T2))2(' '56%2' 3%
\$2' *5))5%V*7.)5%\$5Z. ++8%912"%\$1215%9' *: 56+*1; % 65++8%AGHC%OO#%PG,PP#%

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=7U558%N5*3*%?#%d0' 1567>)1>62)%- . / />' *721*. ' %2' 3%W52/O. 6WC%45: *+* (%E>+* 5++%D6*1** (%. 6%T). c2)%
V510. 6W+#e%B?""<. ('&. ' (\$+. '#\$Y' (\$+. *+6*Z7F7'E &\$(\$, *8&+, &' 258%53*153%c; %Q6O*1 %D5*+56%2' 3%\$""6)5; %
4. +58%912"%\$1215%9' *: 56+*1; % 65++8%AGKC%OO#%GKB,

%
=7U558%N5*3*%?#8%2' 3%L/5+%&#%A . 6156#%d45+5267""* (%>?"(+&\$3' %i ')"* 5C%R5/""*+1%45+5267""%d 6271*75+% ' %
-; c56+0275#e%>?"(+&\$3' \$. *H+(\$+. 7%&3+#%&*)55' %S7"5))%2' 3%U5)); %42O+. ' #%d *11+c>6("C%9' *: 56+*1; % <%
!*11+c>6(" %d 65++8%@AGA#%GB@,GX@#%#%

=7U558%N5*3*%?#8%2' 3%\$Y' *5))5%W*7.)5%\$5Z. ++#%Q' 16. 3>71*. ' #%d \$, \$(' #E &\$(\$. , *>"5"" &3?="B"3?. +##, \$"5C*
H" (?+/#+, \$"5C* . /*(?S3' #-55- "5#%- 65++W))C%N2/01. ' %d 65++8%@AAX#%G,@P#%

%
&3O263+8%="7"25)%%2' 3%N5*3*%?#% = 7U55#%dJ"5%J527""* (%2' 3%M526' *' (% <%D5c%T5' 65+% ' %R*6+1,F526%
-. /0. +1*. ' #e%T5' 65%?76. ++%d"5%>66*7>)/#&3+#%? ' 5%N566*" (1. ' %2' 3%- "26)5+% =. 62' #M. (2' C%
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E. 4&F. 4#'

=7U558%N5*3*%?#8%2' 3%L/5+%&#%A . 6156#%R. 65O. 63#%Q' %R. 65O. 63%. 6%?' ' %N*)%\$>* ' %2' 3%Q+2c5)%d 5356+5' 8%
?>(/5' 121. ' %J57"" .). (*5+%2' 3%?61* <7*2)%Q' 15))* (5' 75%* %J57""*72)%-. / />' *721. ' C%\$5+*(' *' (%
&1""*72)%R>1>65#%A. >1)53(5#%@A@\#%f*f,ff"%

6#7%. 47\$9'G. 4/'

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=7U558%N5*3*%?#8%2' 3%\$Y' *5))5%W*7.)5%\$5Z. ++#%d\$*(12)%p%D6*1" (%p%45+5267""C%?' %Q' 156: *5O%O*1""N5*3*%
=7U55%2' 3%\$Y' *5))5%W*7.)5%\$5Z. ++#e%1+2A- ("&5"" . / *1+2A+5\$(\$+. *O. #\$. "7* @AAXa%
["110c\[\[000#c\(+>#53>\[77. '\)"* 5\[** 156: *5O#%](#)

*
=7U558%N5*3*8%2' 3%\$Y' *5))5%W*7.)5%\$5Z. ++#%dM51156%6. /%d"5%T>5+1%&3*1. 6+#e%1+2A- ("&5"" . / *1+2A+5\$(\$+. C*

d = . : * (% 6 . / % - 6 * 1 * n > 5 % 1 . % \$ 5 + * (' C % ? ' 2) ; _ * (% 1 " 5 % 0 ' 1 5 6 7 .)) 5 (* 2 1 5 % & , \$ 5 / . 7 6 2 7 ; % 1 6 . h 5 7 1 # e % - . ' < 5 6 5 ' 7 5 % - " 2 * 6] + % ? 3 3 6 5 + + # 0 ' 1 5 6 7 .)) 5 (* 2 1 5 % & , \$ 5 / . 7 6 2 7 ; % - . ' < 5 6 5 ' 7 5 # % ? / " 5 6 + 1 8 % = 2 + + 2 7 " > + 5 1 1 + # 0 . : 5 / c 5 6 % @ A A @ # %

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d J 5 2 / % 4 .) 5 + % 2 ' 3 % 4 " 5 1 . 6 * 7 2) % 1 5) * (5 ' 7 5 % * % N > / 2 ' , = 2 7 " " * 5 % D 6 * 1 * * (# e % 1 2 0 5 6 % 0 6 5 + 5 ' 1 2 1 * . ' % O * 1 " % 2 / 5 + % ! . 6 1 5 6 # % K L K K * < @ @ * 8 & + 6 " 5 5 \$ + . ' # * 1 + 2 2 - . \$ 3 ' (\$ + . * 1 + . 6 " & " . 3 " 7 * M * / 5 6 * 7 W 8 % 0 6 5) 2 ' 3 # % >) ; % @ A @ @ # %

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d & 1 " 7 + % . 6 % ? 0 % D 6 * 1 * * (C % J " 5 % 0 / 0 . 6 1 2 ' 7 5 % < % 4 " 5 1 . 6 * 7 2) % - . ' 1 5 f 1 # e % 1 2 0 5 6 % 0 6 5 + 5 ' 1 2 1 * . ' % O * 1 " % 2 / 5 + % 1 . 6 1 5 6 # %

d?61*^7*2)0 15))(5' 75%?(5' 1+2+0 6. <5++.' 2)%-. //>' *721. 6+#e%-. /0>156+2' 3%D6*1** (#R* 3)2; 8% ' ' . #%

%

d-. ' +>)1** (%O*1''%- .))2c. 621*: 5%D6*1** (%J52/+#e0' 156' 21*. ' 2)%D6*1** (%-5' 156+%?++. 7*21*. ' %- . ' <565' 75#%R>))02' 5)065+5' 121*. ' %O*1''%J21'')55' %- . <<5; 8%E6*3(51%T5)/+8%2' 3%- ; ' 1''*2%. ' ' +. ' #5\$5' : 568%-.). 623. #0 71. c56%AGb#%

%

dE>*)3** (%0 1567>)1>62)%-. //>' *721*. ' %- . /0515' 7; %' %' 5%R26/56%S7'' . .)% <E>+* 5++C%?' 0 15(62153%?006. 27''#e0' 156' 21*. ' 2)%D6*1** (%?76. ++0 5%->66*7>)>/%- . ' <565' 75#%?' ' %?6c. 68%='7''*(2' #0>' 5% @AGb#%

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dV2: *(21** (%2' 0 3505' 35' 1%D6*1** (%\$5(655%' 2%\$50261/5' 1% <R' ()*+'#e%- . ' <565' 75% ' %- .))5(5%-. /0. +*1*. ' 2' 3%- . //>' *721*. ' #N. >+1. ' 8%J5f2+#?06*)@AGb#%

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dD6*1** (%-5' 156+2+%?(5' 1+% . 6%- '2' (5C%9+* (0' 765/5' 12)80' 1567. ' ' 57153%45+5267''%. 6M26(5,S72)5%J62' +. 6/21*. ' +e0' 156' 21*. ' 2)%D6*1** (%-5' 156+%?++. 7*21*. ' %- . ' <565' 75#% *11+c>6('8% !5' ' +;): 2' *2#0 71. c56%AGB#%

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d9' ** 15' 353%- .))2c. 621*. ' +C%- . ' +*35621*. ' +% . 6%45+5267''56+% ' 02' %?(5% <%- . 60. 6215%S>6: 5''))2' 75#e%-. ' <565' 75% ' %- .))5(5%- . /0. +*1*. ' 2' 3%- . //>' *721*. ' #J2/02%E2; 8%R). 6*32#% = 267''%@AGB#%

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d! 261' 56** (%?76. ++%->)1>65+C%\$16215(*5+% . 6%D6*1** (%-5' 156+%0. %S>00. 610' 1567>)1>62)%J52/0 6. h571+#eR>))%02' 5)065+5' 121*. ' %O*1''%S>+1'' %R3O263+8%45' 52%R65; 8%. ' 21''2' %4;)2' 3568%2' 3%2/5+%� . 6156#%0' 156' 21*. ' 2)%D6*1** (%-5' 156+%?++. 7*21*. ' %- . ' <565' 75#% 6)2' 3. 8%R). 6*32#0 71. c56%AGP#%

%

dJ''5%\$1261,>0%Z*50C%= . : ** (%2%0 6. (62/0 ' ')* 5#e%AGP%?' ' >2)%-. ' <565' 75%. 6%0''5%- . >' 7*)%. 6%0 6. (62/+%' %J57''*72)%2' 3%\$7*5' 1<*7%- . //>' *721*. ' #%- .). 623. %S06** (+8%- .). 623. #S5015/c56%AGP#%

%

%0 1567>)1>62)%-. //>' *721*. ' 2' 3%J52/0 6. h571+C%- . ' +*35621*. ' +% . %N5)0%D6*1** (%-5' 156+%R27*)1215%

d! 6. / . 1* (%S1>35' 1%M526' ** (%O*1''%2%\$ (*12)%D6*1** (%->66*7>)>/C%?3/'** +1621. 68%Q' +16>71. 68%Q' 3%
S1>35' 1% 56+0571*: 5+#d%D*1''%S127; %J. 1>)2%Q' 3%L2/5+%Q . 6156#%&>6. 052' %?++. 7*21*. ' % <%J527''56+% <%
?7235/'*7%D6*1** (#%M*/56*7W8%Q65)2' 3#%L>' 5%@AGG#%#%

%

%J''5%&1''*7+% <Q' 156' 51%

dkQ] / % . O% ' %''5% 156' 51%2) %''5% / 5]C%45+5267'''' (%S5' . 6+] %J62' +*1' . ' +%6. / % 6** 1,c2+53% . %D5c,c2+53%
M'15627; #e% - - - #% - ''*72 (. 8%Q)'' . *+#% = 267'' %AAB#%

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dJ''5% 156' 51% Q]: 5% 5263%2% . 1%2c. >1%1%>1% 5: 56%+55' %1eC%45+5267'''' (%S5' . 6%-*1'_5' +] %J62' +*1' . ' +%6. / %
! 6** 1,c2+53% . %D5c,c2+53% M'15627*5+#%?++ . 7*21* . ' % <% 156' 51%45+5267''56+8% . ' <565' 75%b#A#%
-''*72 (. 8%Q)'' . *+#% 71. c56% @AAB#%

!

. #O(* (2'8&' (61!. //) (*' O1*' 2!

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8. 1H74&)% . 4I'D4. B&007. : \$9' G47%: @I'*+*, 1''4&0&: %

- .))2c. 621'' (%O1''% .))52 (>5+% ' %576>*1/5' 1%. 68%2++5++/5' 1% <8%2' 3%5: *+ . ' +% <%''5% 6. <5++ . ' 2)%
D61'' (% / 2h. 6%2' 3%''5%4''51. 6*7%2' 3%D61'' (% / '' . 6*

H74&)% . 4' . B'%3&' J. F &' G47%: @?': 7%\$%7K &' L J G?M7: ' %3&' E\$4N &4'0) 3. . 9' . B' - ! 07: &001'*+PQ1*+PRI?: %&47N'
*+P*1*+PQ''

J''5%ND0%' . O%5' 2/53%''5%NED-%2' 3%5). 72153% . %c5%O1'''' %''5%N-D&a%O2+%''5%5026215%O6*1'' (%
75' 156%2' 3%''5%O6*1'' (,276. ++,1''5,7>66*7>)>/%D6. (62/%. 6%''5%R26/56%\$7'' . .)% <%E>+'' 5++%RSEa#%J''5%
/*+* . ' % <%''5%ND0%O2+% . %>00. 61%RSE%+1>35' 1+%2' 3%27>); %O1''%''5*6%O6*1'' (% 553+% . %2+% . %
06. / . 15%06. <5++ . ' 2)%2' 3%27235/*7%>775++%2' 3% . %O650265%2))%RSE%(623>215+% . %c5%5f75))5' 1%O6*156+##%
0' % / ; % .)5%2+%3*6571. 68%Q%7.))2c. 62153%2' 3%7 . ,3*657153%527''% 526%O1''%''655%(623>215%2++*12' 1%
3*6571. 6+% -2*1)'' % = 261'' 8% = 2' 3; %i)5h' *W8%F5c* (%q''2. 8% - ; ' 1''*2% . '' + . ' 8%4; 2' %Z'' (>/8%J21'')55' %
- . <<5; 8%45' 52%R65; 8%E6*3(51%T5)/+8%?/*6%N2++2' 8%J5: '' %4>1''56<. 638% . ' 21''2' %4;)2' 356a#%J. (51''56%''5%
ND0%23/*'' +1621*: 5%52/%' %*f% 526+%3*3%''5% .)) . O'' (C*

- o - .))2c. 62153%O1''%RSE%27>); 8%+12<<8%2' 3%23/*'' *+1621. 6+% . %c>*)3%2' 3% <<56%06. (62/ / '' (*
- o R27*)*12153% @A%O. 6W+'' . O+% . 6%27>); 1; %2' 3%12<<*
- o R27*)*12153% \GP%O. 6W+'' . O+% . 6%+1>35' 1+%'' ,%2' 3% >1, . . ,7)2++a*
- o E>*)1%>' 356(623>215%7. ' +>)121* . ' +u%' %*f% 526+% 7652+'' (%''5% >/c56% <%+5++ . ' +%. 6%
+1>35' 1+%362/21*72)); %6. / %2%065: * . >+%GA; ; 526%2: 562(5% <%AA%O56% 526% . % : 56% @8BAA%O56%
; 526u% . 12)%7. ' +>)121* . ' +%O1''%' 3*: *3>2)%O6*156+%2' 3%52/ +% <%O6*156+% \GA%PGH#
- o \$5: 5). 053%2' 3%35+* (' 53

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?1&%<(*@!

[4\$#!\$%&'LQ1)4#!:9&00':.%&#M'

&'()*+''%\BC%45+5267''%=51''.3+%S06** (%@AGAU%SO6** (%@AG@U%SO6** (%@AGK%SO6** (%@A@A%SO6** (%@A@@%R2))%
@A@%a%

&'()*+''%XXAC%D6*1** (%# 6. (62/%?3/'*+1621*.'%R2))%@AGPa%

&'()*+''%\PC%D6*1** (%2' 3%D6*1** (%S1>3*5+% ' %2%\$*(^12)?(5%SO6** (%@AAbU%R2))%@AAXa%

&'()*+''%bAAC%-./O>156+%2' 3%D6*1** (%# 6271*7>/%@,7653*1a%SO6** (%@AAXa%

&'()*+''[0' 156271*:5%=53*2%S1>3*5+%BAXC%Q' 156271*:5%E>+* 5++%-./ />' *721*.' 8% ')** 5%\,7653*1%2+%D261% <%
BAX

V*7W"\$2: *+, -6. +c; % = ?%1>35' 1a8%&VT%bXX%J''5% .) *1*7+% <%D6*1** (%)275/5' 1%P%7653*1+a8%\$06**' (%@AGP%
S7. >1%&))2/ % >' 356(623>215a8%&VT%PXXC%D6*1** (%- . / / >' *1; C%-62<1** (%) >c)*7%45065+5' 121*. ' +% <% 6. (62/ +%
'@%7653*1+a8%\$06**' (%@AGX%
S7. >1%&))2/ % >' 356(623>215a8%&VT%PXXC%D6*1** (%. 6% 6. (62/ % 6. / . 1*. ' %2' 3% >c)*7*1; %@%7653*1+a8%R2))%
@AGb%
-2*1)** %=261**

S"21"2%?)2)*0%(623>2153%=2; %AGH0%

Z2'

, 1/.2%

S. >/; 2%J6*: 53*8%(623>2153%\$575/c56%A@A8%J''5%Q' 3'2' %\$*2+0. 62C% 45aE>")3'' (%Q35' 1*1*5+%2' 3%

-. />/' *1*5+%1'6. >(' %S. 7*2)%= 53*2%%

&)*h2''%S'/ / . ' +8%(623>2153%>/ /56%AGX8%E?'&' '\$*H' *H\$, +d%

&))5' %-57*)8%(623>2153%AGB8%4AA&+ ' 3?' *5*6+&*1+##' %+&' (\$+. =F(-/' . ('8''&3''A(\$+. 5*+. *E &\$(\$. , *B+, ''(?''&%%
V*7W'%\$2: *+, -6. +c: 8%(623>2153%AGB8%B?'**8+#(\$35'+6*8# 3''2'' . (=4. *@V' 2\$. ' (\$+. *+6'F(-/' . (C*1' 3-#(Gc'' . /<

4/2\$. \$5(&' (+&*8''&5A''3(\$)' *5*+6*8# 3''2'' . (%

L. ' 21''2' %4;)2' 3568%(623>2153%AGG8%45,?61*7>)21'' (%J''5%=&+*+ . ' % <J''5%D6*1'' (%-5' 156C%=2W'' (%4. . /%. 6%
MTEJt% 56+0571*: 5+%

U5: '' %4>1''56. 638%(623>2153%AGA8%J)2; '' ([D6*1'' (C%- . ' ' 571'' (%Z*35. %T2/5+8%M526' '' (8%2' 3%
-. /0. +1* . ' %

?+''5; %D21+. ' 8%(623>2153%AGA8%FO). 6'' (%\$56: *75% ' %-2/0>+%J 6(2' *_21'. ' +C%?%= . 35)%<. 6%\$56: *75,
M526' '' (%' %R*6+1,F526%- . /0. +1* . ' %

!''*)?)5f2' 3568%(623>2153%AAx8%J-(*('? (5*9+(*E &\$(\$. , =B?' *W\$(' &' 3\$''5c*1+22- . \$3' (\$+. '' . /'1+2A+5\$. , *
&&' 3(\$3''5*+6*-1; % <N56. 5+X' 2''&5*

: ''- ; ''2%

U215%?)15' ; 8%J''5*+%' %D6. 75++%

-)2*65%= 51_(568%J''5*+%' %D6. 75++%

L2f%J'' * *c>6(''8%(623>2153%AGH8%^''#A\$. , *(?''^&-&(*4''M] -''''&M''H\$V''/DH''(?+/5'F(-/G*+6! \$5A+5\$(\$+. 5'' . /<

433-2-# (\$)' *466''3(%

?' *12%M. ' (8%(623>2153%AGH8%R5/' *+1\$S1. 6; 15))'' (%J %4''51. 6*72)%W5(. 1*21'. ' +C%J''5%&f056*5' 75+% <%
=. 1''56+%S''26'' (%J''5*6%E*61''\$S1. 6*5+%J ')'' 5%

=26; 2' 2%E. 215' 65*1568%(623>2153%AGH8%! \$/G+&*' /(*''*5G##' %-5dc*B: \$((' &' \$/=-8-%#3*FG##' %\$'' . /<

43(\$)\$5(*E &\$(\$. , *8''/' , +, G**

=5(2' %S7'' . 511)568%(623>2153%AGK8%D6*156); %S5)<, &<*727*5+Q2' 3%\$*+0. +1* . ' %J62' +<56C%R*6+1,F526%
-. /0. +1* . ' %J. %D6*1'' (%' %J''5%\$*+7*0)** 5+%

-2*1)** %=261'' 8%(623>2153%AG\8%J527''** (%<. 6%J62' +<56C%45<)571*: 5%\$5)<, ?++5++/5' 1%\$16215(*5+% ' %''5%R*6+1,
F526%- . /0. +1* . ' %-)2++6. . /%%

=5)*++2%= 2_.)5' *8%(623>2153%AG@8%J \$, \$(' #'' . /'8' A''&D% ' 5''/=B?' *1+2A#''VW\$(' &' 3\$''5*+6*1+2A+5\$(\$+. *
F(-/' . (5'' . /<. 5(&-3(+&5**

=2' 3; %J) 5h' *W8%J''5*+%' %D6. 75++%

4; 2' %Z'' (>/8%(623>2153%AG@8%>'DB?\$. ; \$. , *1+. 5-#(' . ('8' &(\$3\$A' (\$+. =8' &(\$3\$A' (+&G! ''5\$, . *H''(?+/5\$. '' . *
O. #\$. ''*1+. 5-#(' . (*B&' \$. \$. , *8&+, &' 2**

U266; ' %M'' 15)/2' 8%(623>2153%AAH8%F(-/' . (5*6+&*F+3\$' #1?' . , ''=43(\$)\$5('W\$(' &' 3G'' . /!' \$, \$(' #H''/'\$' *
F2' (%*2. 8%(623>2153%AAH8%\\$5- ' #Y''*(?''*Z. (&' . 5#(' %#''=4AA#G\$. , *\\$5- ' #>?'(+&\$3'+*1+2A' &' (\$)' *
>?'(+&\$3*

U6*+15' %= . . 658%(623>2153%AAx8%JH-#(\$2+/' #\$(G'' . /'H-#(\$#(' &' 3\$''5=>'2' AA\$. , *(?''*X' /-' (''@VA''&\$'' . 3''%
U5: '' %N.)) . 8%(623>2153%AAb8%&' ()+' *8%-6521*: 5%D6*1'' (8%J5*1''%J>/28%J''2*6a!

!

A' <18!D1*')8(*@!

S56: 5% ' %J''5%J 65,N52)1''?3: *+. 6: %- . / /'11558%7. ' 3>71'' (%/ . 7W%' 156: *50+Q2' 3%Q6. : *3'' (%553c27W%' %
362<1+%- <200)'721* . ' %/2156*2)+%. 6%/53'72)8% 5156* 26; 8%2' 3%35' 12)%7'' . .)%O*1''%X,G@%>1>35' 1+
527''%06* (#)@A@G,065+5' 1#!

!

. E&8#2!&*#F1%)@*(') *!!

!

J527*** (%. //5' 321'. '%6. /%1' 5%-5' 156%. 6%J527*** (%&f75))5' 75%-J&a#S5)57153#c2+53% ' %
657. //5' 321'. '+% <%(623>21** (%-5' *. 6+##AG@8%AG\8%AGP#%AGB8%AGb8%AGX8%AGK8%AGH8%A@A8%
@A@G8%A@@%
&f75))5' 75%' %26556%\$5: 5). 0/5' 1%?O263#%?O26353#c; %=2/*9' *: 56+*1; %1. %57. ('*_5%5f5/0)26; %
7. //1/5' 1%1. %1' 5%35: 5). 0/5' 1% <106. <5++*. ' 2)% 00. 61>' *15+% . 6% =2/*1>35' 1+2' 3%
(623>215+##S5015/c56%AGP#%
E5+1%?61*7)5%457. ('*1*. ' #d! .)7; %=21156+%/ . O%2' 3%' %1'' 5R>1>65C%/51%/5>162)*1; 8%- . 60. 6215%\$212%
=** (8%2' 3%T. : 56' /5' 1%\$>6: 5*)2' 75e%#5)57153%1. %c5%506** 153%' %J'' 5(*+6* . /"A" . /" . (*
1+2A+5\$(\$+ . *' . />?"(+&\$3Q+-&. ' #5*KLTK% 26). 6%1 65+8%AG\#%
i >1+12' 3** (%1 6. <5++ . 6%?O263#S5)57153#c; %>' 356(623>215%1>35' 1+% . 6%1'' +%7/0>+2O263%(*: 5' %
c; %1'' 5%?++ . 7*2153%\$1>35' 1%T. : 56' /5' 1%2' 3%-2/0>+%?71*: *15+%1. %06. <5++ . 6+O" . %' 2: 5%* . " . O' %
5f75))5' 75%' %1527*** (%c; %d: 2)>* ('% ' 356(623>215%5+5267'' 8%>+* ('% ' . : 21*: 5%1527*** (%/51" . 3+
2' 3%5' (2(* (%1'' 5%7. //>' *1; %1'' 6. >("271*: 5%* . .): 5/5' 1%O*1'' %1>35' 1% 6(2'_21'. ' +e%\$O6* (%
@AGG#%
9#S#%1 6. <5++ . 6% <%1'' 5%F526%V. /' * 55#%V. /' * 2153#c; %1'' 5%1 6. . . +1%2+%1'' 5% ' 5%27>); %/5/c56%1. %
65065+5' 1% =2/*% ' %1'' +% 21'. ' 2)%7. /051*1'. ' #%@AGA#%
1+2A-('*85' . /' 1+2A+5\$(\$+ . *\$*+1** (>+ '*53%E. . W%?O263%. 6%c5+1#c. . W%' %1'' 5%*5)3%' %AAX#%>' 5%
@AAK#%
?+*(' 53%45+5267'' %?00. * 1/5' 1#%- .))5 (5% <%?61+2' 3%\$7*5' 75#% =2/*9' *: 56+*1; #R2))%AAK%\$O6* ('
@AGb%
R* 2)+1%. 6%1'' 5%@AAb%---%0' 2'' 5*J'' &#. *H'' 2+&\$' #O-(5(' . /\$. , *! \$55'' &(' (\$+ . *4: ' &/#% =267'' %AAb#%
U' \$&+5*J'' 5('E "%*B'' V('4: ' &/4>' ' 56,90#%?O26353%21%- . /0>156+2' 3%D6*1** (#%>' 5%@AAB#%
\$*+1** (>+ '*53%J527*** (%?O263R** 2)+1#%1' 5% <%15' %* 2)+1+% . 6%7/0>+ , O*35%2O263#%9 =2+
?/' 56+1#%@AAP, @AAB#%

%

Grants Awarded (2005-present)

-26556%T62' 18% =2/*1'+%-5' 156%. 6%-26556%&f0). 621*. ' %2' 3%\$>775+++zGA%X%1. %7. : 56%5f05' +5+%1. %
12W5%T62' 1%D6*1** (%1>35' 1+%1. %45*); %J. O' +'' 0%1. %/551%O*1'' %7. //>' *1; %/5/c56+2' 3%J. O' +'' 0%
J6>+155+2' 3%1. %523%2%7. //>' *1; % 553+2++5++/5' 1a#%\$O6* ('@A@%#%
-26556%T62' 18% =2/*1'+%-5' 156%. 6%-26556%&f0). 621*. ' %2' 3%\$>775+++z\A@%1. %7. : 56%5f05' +5+%1. %
12W5%1 6. <5++*. ' 2)%D6*1** (%720+1. ' 5%-1>35' 1+%1. %45*); %J. O' +'' 0%1. %/551%O*1'' %7. //>' *1; %
/5/c56+2' 3%J. O' +'' 0%J6>+155+a#%\$O6* ('@AGH#%
S1>35' 1%J57'' . .) . (%R55#%?006. f*/215); %z\8AAA%1. %O>67'' 2+5%2%O2)), / . >' 153%+7655' % . 6%
>' 356(623>215%O*156+2' 3%O65+5' 156+%1. %>+5%' %1'' 5%ND0a#%\$O6* ('@AGX#%
S1>35' 1%J57'' . .) . (%R55#%?006. f*/215); %z@8AAA%1. %O>67'' 2+5%2%O2)), / . >' 153%+7655' % . 6%
>' 356(623>215%O*156+2' 3%O65+5' 156+%1. %>+5%' %1'' 5%ND0a#%\$O6* ('@AGP#%
S1>35' 1%J57'' . .) . (%R55#%?006. f*/215); %z\8AAA%1. %O>67'' 2+5%2%O2). 0%7. /0>156+% . 6%1'' 5%N. O5%
D6*1** (%1'' 21*: 5%>' 356(623>215%7. ' +>12' 1+2' 3%O6*156+%1. %>+5#a%\$O6* ('@AG%#%
d\$*(12)%\$1. 6; 15))** (% ' %1'' 5%JG@%-)2++6. . /#e%1'' * . %N>/2' *15+%- . >' 7)%#1' 5% <%45: 562)%7. , ! 0+8%)523%
! 0%2+5%\$6#%N5)2' 5%? ' 36. ' 5#%zPH8%BHXa#%V. 1%>' 353#%
S1>35' 1%J57'' . .) . (%R55#%?006. f*/215); %z@8AAA%1. 6%*'' 6* ('% ' 356(623>215%1>35' 1%/5' 1. 6+%1. %
+12<% 05' %' . >6+% ' %7. /0>156%7)2++6. . /+a#%\$O6* ('@AGG#%
S1>35' 1%J57'' . .) . (%R55#%?006. f*/215); %zH8AAA% ' %201. 0%7. /0>156+% . 6%>+5%' %201. 0%
7)2++6. . /+a#%\$O6* ('@AGA#%
)2++6. . /%&' '' 2' 75/5' 1%- . >' 7)%-)2++6. . /%90(6235#%D*1'' %J566; %1 . O5))#%2006. f#z\A8AAAa%1. %
65' . : 215%1'' 655%7)2++6. . /+% 1. %201. 0%7)2++6. . /+% 9! N%GPG8%P\8%2' 3%P\ a#%
S1>35' 1%J57'' . .) . (%R55#%?006. f*/215); #zG8AAA% . 6%201. 0%7. /0>156+% . 6%>+5%' %201. 0%
7)2++6. . /+a#%\$O6* ('@AAH#%
)2++6. . /%&' '' 2' 75/5' 1%- . >' 7)%-)2++6. . /%90(6235#%D*1'' %J566; %1 . O5))#%2006. f#zGB8AAA%1. %
>0(6235%E?-%BP%1. %2%201. 0%7)2++6. . /+a#%\$O6* ('@AAH#%

0' <. 6/21*. ' %J57''' .). (; %S56: *75+[S1>35' 1%J57''' .). (; %R55#%D*1''%J566; % . O5))#% 2006. f#%z\A8AAA%
2O26353%c; % 6. : . +1%2' 3%J%. 6%76521*. ' % <%O*65)5++%)201. O%7)2++6. . / 8%. 721*. ' %90''2/%GbXa#%R2))%
@AAX#%
0' <. 6/21*. ' %J57''' .). (; %S56: *75+[S1>35' 1%J57''' .). (; %R55#%D*1''%-; ' 1''*2%M5O*57W*, D*)+. ' %2' 3%
U5*1''%J>/2#% 2006. f#%z\A8AAA%2O26353%c; % 6. : . +1%2' 3%J%. 6%76521*. ' % <%O*65)5++%)201. O%
7)2++6. . / 8%E27''5). 6%BAa#%S06*' (%@AAX#%

*

F%P); ' ' 8!K%T#%: !

E &\$(\$, *1+22+. 5*

45: *5O568%\%5' 16*5+%5: *5O538%AG@, @AGB%

B&' /')# \$!V!F%\$1&%!K%T#%: 2

○ ?115' 3%>))c. 263%/551'' (+%2+% 55353% {G,@%D56% 526a%
 -?S%J-!M%# 6. / . 1* . ' %-. // *11558%AGK% %A@A%
 ○ 45: *5O53%>' *: 56+*1; %2' 3%7.))5(5%(>*35)** 5+%2' 3%5: *+53%-?S%(>*35)** 5+%. 6%O6. / . 1* . ' %d. %
 1''5% 5O%'*('5+1%2' W% J527''** (%# 6. <5++ . 68%\$5' * . 6%M571>6568%\$5' * . 6%-)** *7*2' a%
 RSE%?++5++/5' 1%- . // *11558%\$52' %?00. ** 1/5' 18%AG\,@AGK%
 ○ 45: *5O53%2++5++/5' 1%O)2' +% . 6%2))%350261/5' 1+% ' %RSE%
 ○ -. ,<27^)*12153%2' %2++5++/5' 1% <% 62)%2' 3%O6*115' %7. / />' *721' . ' %' %RSE]+%720+1. ' 5+%
 N-D&%D6*1'' (%-5' 156%\$*6571. 6%\$5267''%- . // *11558%AGX%
 RSE%- . 65%- >66*7>)>/%-. // *11558%\$52' %?00. ** 1/5' 18%AGP,@AGX%
 ○ 45: *+53%RSE]+%526' ** (%(. 2)+%2' 3%O)2' ' 53% 5O%7. 65%7>66*7>)>/%
 D6*1'' (%\$7'' .)26+%- . ,-. . 63** 21. 68%AGB,@AGX%
 ○ -.))2c. 62153%O*1''%-21''; %D2(' 56%-6521*: 5%D6*1'' (a8%L2/5+%J. c** %L. >6' 2)+/a8%4*7''263%
 -2/Oc5))%L. >6' 2)+/a8%# . %35: 5). 0%2%76. ++,350261/5' 1%O6. (62/%
 ○ 4523%2' 3%5: *5O%>' 356(623>215%200)*721' . ' +%# . %/2W5%657. / /5' 321* . ' +%# . %23/*++ . ' +%
 ○ !261*7*0215%' %576>*1/5' 1%5: 5' 1+%2' 3%O)2' %O6*1'' (%5: 5' 1+%. 6%-1>35' 1+%
 Z*+1'' (%# 6. <5++ . 6[0' +16>71. 6%\$5267''%- . // *1155%. 6%RSE%E 9S%GA@%27>); 8%AG\8%AGP8%AGb8%AGX%
 -5' 156%. 6%D6*1'' (%&f75))5' 758%9' *: 56+*1; %?3: *+ . 6; %E. 2638%AAb,@AGb%
 N. O5%-5' 156%. 6%D6*1'' (%&f75))5' 75%\$*6571. 6%\$5267''%- . // *11558%# 6. : . +1%?00. ** 1/5' 18%AGB%
 RSE%?++ . 7*215%\$52' %\$5267''%- . // *11558%\$52' %?00. ** 1/5' 18%AGB%
 RSE%M526' ** (%- . // *11558%\$52']+%?00. ** 1/5' 18%AG\,@AGP%
 -?S%M526' ** (%RM-8%AG\,@AGP#%

- "2*6%\$5267"%- . / / *1155% / 5 / c568% & / 56 (* (%J57"" .). (; %' %E>+' 5++%I %\$5+ (' 8%- .))5(5% <%
-6521*: 5%?61+8%\$52' %?00. ** 1/5' 18%AGH,@A@A%
S5267""7. / / *1155% / 5 / c568%\$5+* (' %2' 3%4. c. 1*7+%I5' >65,)*' 5%+5267""8%AGH%
=211""50%E. 263%J5' >65%2' 3%I 6. / . 1* . ' %- . / / *11550%AGK%
S5267""7. / / *1155% / 5 / c568%Z*61>2)%452)*1; %I5' >65,)*' 5%+5267""8%AGK%

!