--- - -- -- --- --- --- --- ---- ... --- ---

..._ - - .



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

* + (,) (#-%.#, /-0%"#+(1,23,4(0,&)(,52),"' ' (1"&.(,"352)' &."23, 25,..+(,(6&' "3((#7,*+(#(,\$&332.,0(,.))(&.(1,&#,2)"8"3&%,' &)9, #+((.#7,:)"8"3&%,' &)9,#+((.#,+&;(,0((3,"##-(1,0<,..+(, =3";()#".<,#(/&)&.(%<7,

%109:33;

00000000000000000000000000000000000(<=" 7)6+.)33/.0)*0#\$-5:6-+:)6;



*! 99'0?33@A'BCDD9E9'CF'9GEHG99! HGE'FC! 'I C: 9G 0/762-J'9%"2\%/(6+2\#'A6K'B(...\\$6+27\&+(6'964+6''''/+64

*9: 9*19! 'LA**

 $\label{eq:mass_model} \begin{tabular}{ll} M\,;\,\,M=N=0PM=0 & M\,;\,\,M=NR0SM<0 \\ \end{tabular}$

M; M=NNOP; >0

M; M=NS0P=; Q

M: M=NP0T>M0

M; M=NT0PS=Q

M; M=NM0PRT0

M; M=S<0SPR0

M; M=S=0P=S0

M: M=S: OP < PQ

M; M=S>0PN=0

M: M=SN0P=M0

M: M=SSOPP: Q

M: M=SP0PPR0

M; M=ST0T=PQ

*! 99'0?33@A'BCDD9E9'CF'9GEHG99! HGE'FC! 'I C: 9G

LAL9! 'LA**

O/762-J'9%''2&/(6+2#'A6K'B(...\$6+27&+(6'964+6""/+64

M: M=N>'

F

M; M=SR'

Α

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%%'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66\#/#7'809(: -8/,78',;7(<89(=>!?



! AUHV'EAG3@H'HG*1H1?19'CF'19B@GCDCEW'V9DDCC! 0/762-J'9%''2&/(6+2#'A6K'B(...\$6+27&+(6'964+6''''/+64

*9: 9*19! 'LA**

M; RMNR0P; MQ

M: RMNM0PTT0

M; RMS<0PRPQ

M; RMSP0P<S0

M; RMSTOSS; Q

M; RMSM0P=; Q

M: RMP=0P=>0

M; RMP>0PS>0

M; RMPROSSSQ

M; RMPNOP; RQ

M; RMPS0SMRQ

M; RMPP0P>NQ

! AUHV'EAG3@H'HG*1H1?19'CF'19B@GCDCEW'V9DDCC!

LAL9! 'LA**

O/762-J'9%''2&/(6+2#'A6K'B(...\$6+27&+(6'964+6''''/+64

M: RMNT'

В

M; RMSR'

Α

M: RMSS'

Α

%2*: ;44< =>?@A?=@BC +DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

@; /6,&#A(%\$,75('.#(!"#\$%#&'(\$;*'B80#(A#C#&;6#A(87A(/8,7'8,7#A(D9('()*+,-./01)*2)3)4,56)7.*')06
*8'(8#'#9EF80##G\$.8(1.8C87E(<8.8'/8(H87A.,(I7,C#0\$,'9(J;''898/K



! "#\$%\()\'*+, &-\'*\. "#\(\)\'\O\1\"2-\3\"4*\\$55\\\\. \\\6\(\)\7\. \\+67\(\)\+(6\: 78\;<=>

ECV11/BCDD9E9'CF'9GEHG99! HGE'LAHGAV? 0/762-J'9%"28/(6+2#'A6K'B(...\$6+278+(6'964+6""/+64

*9: 9*19! 'LA**

M; ><<=0T; M0 M; ><<P0PRR0

M; > <= NOSMTQ

M; ><; =0PSR0

M; ><; NOPN < Q

ECV11/BCDD9E9'CF'9GEHG99! HGE'LAHGAV?

LAL9! 'LA**

O/762-J'9%''2&/(6+2#'A6K'B(...\$6+27&+(6'964+6''''/+64))

M; > <<; '

В

M; ><=='

Ε

M: > <=R'

В

M; > <= S'

B E

M: > <= P'

3

M; > <= T'

Α

M; > <= M'

Α

M; ><; R'

В

M; ><; S'

0

M; ><; P'

3

%2*: ;44< =>?@A?=@BC



! "#\$%\'()\'*+, &-\'*\. "#&\"\'O\'1\"2-\'3\"4\\"*\\$55\\". "6\\7\8\9, 7. +67\\4\(6\: 78\; <=>

! AUAEH! H'*B@CCD'CF'9GEHG99! HGE'AG3'19B@GCDCEW 0/762-J'9%"2&/(6+2#'A6K'B(...\$6+27&+(6'964+6''''/+64

*9: 9*19! 'LA**

M: S><>0P<S0

M: S><ROSSNO

M: S><MOPTS0

M: S>=<0STR0

M: S = : 0SMSQ

M; S >=> 0SNTQ

M: S = R0P: T0

M; S = S0P < 0

M: S>=P0STN0

M: S = M0P = > 0

M; S>; < 0SS>0

! AUAEH! H'*B@CCD'CF'9GEHG99! HGE'AG3'19B@GCDCEW

LAL9! 'LA**

O/762-J'9%''2&/(6+2#'A6K'B(...\$6+27&+(6'964+6''''/+64

M; S><; '

Α

M: S><S'

A E

M: S><P'

Ε

M: S >= N'

Α

%2*: ;44< =>?@A?=@BC +DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

- 1



! "#\$\&'()\'*+,\&-\'*\.\ "#\&\'\'O\'1\"2-\'3\"4\\"*\\$55\\". \"6\&7/8\9,7. +67\&+(6\: 78\;<=>

: A! 'A1@AGA*H?*'9GEHG99! HGE'BCDD9E9'YC1@A: AGEADA: O/762-J'9%"2&/(6+2#'A6K'B(. . \$6+27&+(6'964+6""/+64

*9: 9*19! 'LA**

MR<;<;0P;>0

MR<; <NOPRSQ

MR<; <S0PR; Q

MR<; <P0PS; Q

MR<; <T0SMMQ

MR < : = <0P : = 0

MR < : => 0P = S0

MR < : = R0P < < 0

MR<: =NOSNPQ

MR < ; = S0P < ; 0

MR < : = T0P : > 0

MR < : = MOSP > 0

: A! 'A1@AGA*H?*'9GEHG99! HGE'BCDD9E9'YC1@A: AGEADA:

LAL9! 'LA**

<u>O/762-J'9%"2&/(6+2#'A6K'B(...\$6+27&+(6'964+6""/+64</u>

MR<; <='

F

MR<; <R'

A B E

MR<; <M'

В

MR<; =='

A B E

MR<; =; '

Ε

MR < : =P'

В

MR<;;<

Α

MR<;;='

0

MR<;;;'

В

MR<;;>

0 B

MR<;; R'

В

%2*: ;44< =>?@A?=@BC

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

M



<u>UAH'O@A! A1@'BCDD9E9'CF': AGAE9: 9G1'AG3'19B@GCDCEW</u> 0/762-J'9%''2\%/(6+2\#'A6K'B(...\\$6+27\&+(6'964+6''''/+64

*9: 9*19! 'LA**

M > < > N = 0P < < 0

M > < > N; 0SN = 0

M><>N>0PPP0

M><>NR0P<R0

M><>NNOPSS0

M><>S<0SMSQ

M > < > S = 0P = ; 0

M><>S; 0P; SQ

M><>SP0T<: 0

M><>P=0PMMQ

M > < > P > 0P; MQ

M><>PNOPNTO

M><>PP0STRQ

UAH'O@A! A1@'BCDD9E9'CF': AGAE9: 9G1'AG3'19B@GCDCEW

LAL9! 'LA**

O/762-J'9%''2&/(6+2#'A6K'B(...\$6+27&+(6'964+6''''/+64

M><>NT'

Α

M><>NM'

B F

M><>SS'

А В

M><>ST'

B E

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

" #\$%%'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66&#/#7'809(: -8/,78',; 7(<89(=>!?

N



! "#\$%\'()\'*+, &-\'*\. \"#\\"\'O\'1\"2-\'3\"4\\\\\\\\$55\\\\\. \\\6\87/8\9, 7. \\+67\&+(6\': 78\'; <=>

: A! 'OA*9DHC*'HG*1H1?19'CF'19B@GCDCEW'AG3'*BH9GB9 0/762-J'9%"2&/(6+2#'A6K'B(...\$6+27&+(6'964+6""/+64

*9: 9*19! 'LA**

M>TS<=0P=MQ M>TS<R0PNTQ

M>TS<S0SSN0

M>TS=P0T=<0

M>TS;; 0SR=0

: A! 'OA*9DHC*'HG*1H1?19'CF'19B@GCDCEW'AG3'*BH9GB9

LAL9! 'LA**

O/762-J'9%''2&/(6+2#'A6K'B(...\$6+27&+(6'964+6''''/+64))

M>TS<N'

Α

M>TS<P'

Α

M>TS<T'

F

M>TS<M'

Ε

M>TS=<'

Α

M>TS=='

Α

M>TS=; '

A E

M>TS=R'

A E

M>TS: ='

Α

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

0



HG3H! A'EAG3@H'BCDD9E9'CF'9GEHG99! HGE'FC! 'I C: 9G 0/762-J'9%''2&/(6+2#'A6K'B(...\$6+27&+(6'964+6''''/+64

*9: 9*19! 'LA**

M>MP<; 0PPRQ	M>MP<>0ST=0	M>MP <r0strq< th=""><th>M>MP<n0pmpq< th=""><th>M>MP<p0st; q<="" th=""></p0st;></th></n0pmpq<></th></r0strq<>	M>MP <n0pmpq< th=""><th>M>MP<p0st; q<="" th=""></p0st;></th></n0pmpq<>	M>MP <p0st; q<="" th=""></p0st;>
M>MP <t0p; pq<="" th=""><th>M>MP=<0P<sq< th=""><th>M>MP==0P; =0</th><th>M>MP=>0P<nq< th=""><th>M>MP=R0PRR0</th></nq<></th></sq<></th></t0p;>	M>MP=<0P <sq< th=""><th>M>MP==0P; =0</th><th>M>MP=>0P<nq< th=""><th>M>MP=R0PRR0</th></nq<></th></sq<>	M>MP==0P; =0	M>MP=>0P <nq< th=""><th>M>MP=R0PRR0</th></nq<>	M>MP=R0PRR0
M>MP=N0SP; Q	M>MP=S0PS=Q	M>MP=P0PNNQ	M>MP=T0PN>0	M>MP=M0SP <q< th=""></q<>
M>MP; <0SSRQ	M>MP; =0P; MQ	M>MP; >0P <= 0	M>MP; SOTRRQ	M>MP; P0P=; 0
M>MP><0TP; Q	M>MP>=0SMTQ	M>MP>>0P>NQ	M>MP>TOP; SQ	

HG3H! A'EAG3@H'BCDD9E9'CF'9GEHG99! HGE'FC! 'I C: 9G

LAL9! 'LA**

0/762-J'9%"2&/(6+2#'A6K'B(. . \$6+27&+(6'964+6""/+64

M>MP<S'

Α

M>MP=; '

Ε

M>MP;;'

Α

M>MP; R'

Α

M>MP; T'

Α

M>MP>; '

A F

M>MP>N'

Α

M>MP>S'

A 9

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 4)1*, -*#\$06;70.;, 7<

"#\$%%'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66\#/#7'809(: -8/,78',;7(<89(=>!?

Р



! "#\$%\'()\'*+, &-\'*\. \"#\\"\'O\'1\"2-\'3\"4\\\\\\\\$55\\\\\. \\\6\87/8\9, 7. \\+67\&+(6\': 78\'; <=>

A3H'*@AGYA! A'HG*1H1?19'CF'9GEHG99! HGE'AG3'19B@GCDCEW'YADA3W 0/762-J'9%''2&/(6+2#'A6K'B(...\$6+27&+(6'964+6'''/+64

*9: 9*19! 'LA**

M; MS = = 0SPNQ

M: MS=R0P <> 0

M; MS; > 0PP=0

M; MS; NOPM>Q

M; MS; MOP=T0

A3H'*@AGYA! A'HG*1H1?19'CF'9GEHG99! HGE'AG3'19B@GCDCEW'YADA3W

LAL9! 'LA**

O/762-J'9%''2&/(6+2#'A6K'B(...\$6+27&+(6'964+6''''/+64))

M; MS<>'

Α

M; MS<N'

Ε

M: MS<S'

Α

M; MS=; '

Ε

M: MS = >'

В

M; MS; <'

0

M; MS; ='

3

M: MS: R'

Α

M: MS: T'

Α

M: MS><'

Α

%2*: ;44< =>?@A?=@BC +DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

! "#\$%#! \$&"

"#\$%%'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66\%#/#7'809(: -8/,78',;7(<89(=>!?

Q



A: AD'UWC1@H'9GEHG99! HGE"BCDD9E9'YCCVALLADDW'YAGUH! ALADDW O/762-J'9%"2&/(6+2#'A6K'B(. . \$6+27&+(6'964+6""/+64

*9: 9*19! 'LA**

M: T: <T0SRS0

M; T; <MOP; NQ

M: T: ==0SS<0

M; T; =N0P=; Q

M: T: =M0P=T0

M; T; := 0PNNQ

M; T; ; ; 0PNNQ

A: AD'UWC1@H'9GEHG99! HGE''BCDD9E9'YCCVALLADDW'YAGUH! ALADDW

LAL9! 'LA**

O/762-J'9%''2&/(6+2#'A6K'B(...\$6+27&+(6'964+6''''/+64))

M: T: <>'

A B

M; T; < R'

B E

M; T; =S'

3

M; T; =P'

0

M; T; =T'

Α

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

! >



! "#\$\\(\)'\'*+,&-'*". "\(\)\'\'\'\'\'*\\$55\\'\. "6\\(\)\'\\'\\\+67\\(\)\\(\)\'\:\\->

BAA!: 9D'9GEHG99! HGE'BCDD9E9'L9! HGA3?'! AGGH 0/762-J'9%"2&/(6+2#'A6K'B(...\$6+27&+(6'964+6""/+64

*9: 9*19! 'LA**

M>; ; <=0PRMQ

M>;;<;0P;P0

M>; ; <N0P<P0

M>; ; <T0PR>0

M > ; ; = <0 SM > 0

M>; ; ; ; 0P<PQ

M>; ; ; NOSTSQ

M>;;>;0SST0

M>;; >R0SM=0

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

ij.



! "#\$%&'()''*+, &-'*". "#&"/'0'1"2-'3"4/""'*\$55%". "6&7/8'9, 7. +67&+(6': 78'; <=>

BAA!: 9D'9GEHG99! HGE'BCDD9E9'L9! HGA3?'! AGGH

LAL9! 'LA**

O/762-J'9%"2&/(6+2#'A6K'B(. . \$6+27&+(6'964+6""/+64

M>;; < P'

В

M>;; < M'

Ε

M>;; =='

В

M>;;=;'

Ε

M>;; =>'

В

M>; ; =R'

В

M>; ; =N'

В

M>; ; =P'

0 B 9

M>;;;R'

0 B

M>;;;P'

B F

M>;;;T'

Α

M>;;;M'

Α

M > ; ; > <'

A B

M>;;>='

В

%2*: ;44< =>?@A?=@BC

+DE" 8,7.1,4)1*,-*#\$06;70.;,7<

! =



 $! "\#\$\%'()"^*+,\&-'^*". "\#\&"/'O'1"2-'3"4/""'^*\$55\%". "6\&7/8'9,7. +67\&+(6': 78';<=>$

BAA!: 9D'9GEHG99! HGE'BCDD9E9'L9! HGA3?'! AGGH

LAL9! 'LA**

M>;;>>'

В

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?



! "#\$\&'()\'*+,\&-\'*\.\ "#\&\'\'O\'1\"2-\'3\"4\\"*\\$55\\". \"6\&7/8\9,7. +67\&+(6\: 78\;<=>

F939! AD'HG*1H1?19'CF'*BH9GB9'AG3'19B@GCDCEW': CCYAGG?! 'AGEA: ADH 0/762-J'9\"2\%/(6+2\#'A6K'B(...\\$6+27\&+(6'964+6''''/+64

*9: 9*19! 'LA**

M > < TN; 0M < NQM><TN>0T: R0 M><TNP0PN; Q M><TNT0P: R0 M><TNM0PSN0 M><TSS0P<<0 M><TS<0PNT0 M > < TS = 0T < S0M > < TSN0T = > 0M><TSP0T<: 0 M><TP: 0PRR0 M><TPR0PTN0 M><TST0PMR0 M><TSM0PRP0 M><TP=0PRT0 M><TPP0T;;0 M><TPM0PM>Q M><TT=0PSM0 M><TTR0T<P0

F939! AD'HG*1H1?19'CF'*BH9GB9'AG3'19B@GCDCEW': CCYAGG?! '

AGEA: ADH

LAL9! 'LA**

O/762-J'9%''2&/(6+2#'A6K'B(...\$6+27&+(6'964+6''''/+64))

M><TN='

Α

M><TNN'

В

M><TS; '

Α

M><TS>'

Α

M><TP<'

A B

M><TP>'

Ε

M><TPN'

B F

M><TT: '

Α

M><TT>'

Ε

M><TTM'

Ε

%2*: ;44< =>?@A?=@BC +DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

İΓ



! "#\$%\'()\'*+, &-\'*\. \"#\\"\'O\'1\"2-\'3\"4\\\\\\\\\$55\\\\. \"6\\7\8\9, 7. +67\\+(6\: 78\;<=>

HDA@HA'BCDD9E9'CF"9GEHG99! HGE'AG3"19B@GCDCEW': ?DAVCC! ' : CCVA11?L?Z@A

O/762-J'9%"2&/(6+2#'A6K'B(...\$6+27&+(6'964+6""/+64

*9: 9*19! 'LA**

M>N>< T0SP=0	M>N>< MOP>S0	M>N>=<0S>MQ	M>N>==0SR>0	M>N>=R0P <p0< th=""></p0<>
M>N>=T0ST>0	M>N>; =0SNTQ	M>N>; >0SNTQ	M>N>; SOPPSQ	M>N>; P0TT=0
M>N>><0P<<0	M>N>>>0SP>0	M>N>>R0PM; Q	M>N>>N0PSTQ	M>N>>SOPRNO
M>N>>P0P=>0	M>N>RROSMPQ	M>N>RP0P>N0	M>N>RMOSMRQ	M>N>N; OT ; ; Q
M>N>NNOSTMQ	M>N>NSOPTSQ	M>N>NTOSS>0	M>N>NM0SP<0	M>N>S<0SR=0
M>N>S=0SPT0	M>N>S>0P=S0	M>N>SSOSRMQ	M>N>SP0P>R0	M>N>P<0P=NQ

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%%'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66\#/#7'809(: -8/,78',;7(<89(=>!?



! "#\$\\(\)'\'*+,&-'*". "#\\"/'O'1"2-'3"4/""'*\$55\\". "6\\7/8'9,7. +67\\+(6': 78';<=>

HDA@ I	∌HA.R(JDD9E	E9'CF''9GEH(:	CCVA11?L		CDCEW: ?	DAVCCI. I
LAL9! 'L	<u>A**</u>	<u>0/7</u>	- — — — — 62-J'9%"2&/(6	— — — — - +2#'А6К'В(.	 . \$6+27&+(6'9	964+6""/+64	
M>N><='							
E							
 M>N><; '							
<u> </u>							
 M>N><>'							
В							
M>N> <n'< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></n'<>							
4							
M>N> <s'< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></s'<>							
3							
M>N>=; '							
3 9							
M>N>=N'							
А В	9	Ε					
M>N>=S'							
А В	Ε						
M>N>=P'							
Ξ							
M>N>; N'							
Ξ							
M>N>>=							
Α Ε							
M>N>>T'							
A O	3	9	F				
M>N>>M' 							
E E							
M>N>R<' -							
=							
%2*: ;44<							+DF"

%2: ;44< =>?@A?=@BC

! "#\$%#! \$&'



! "#\$%\\"()\"*+, \&-\"\". "#\\"\'O\1\"2-\3\"4\\"\"*\\$55\\". "6\\7\8\9, 7. +67\\+(6\: 78\; <=>

HDA@HA'BCDD9E9'CF"9GEHG99! HGE'AG3"19B@GCDCEW': ?DAVCC! ': CCVA11?L?Z@A

LAL9! 'LA**

M>N>R; '

В

M>N>RS'

B F

M>N>N<'

B 9 F E

M>N>N=

Ε

M>N>N>'

B F E

M>N>NR'

В

M>N>NP'

Ε

M>N>SR'

Ε

M>N>ST'

A B

M>N>SM'

3

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'



! "#\$%\()\'*+, &-\'*\. "#\(\)\'\O\1\"2-\3\"4*\\$55\\\\. \\\6\(\)\7\. \\+67\(\)\+(6\: 78\;<=>

Y: 9A'9GEHG99! HGEK'BCDD9E9'93A1@ADA'AD?VA O/762-J'9%"2&/(6+2#'A6K'B(. . \$6+27&+(6'964+6""/+64

*9: 9*19! 'LA**

M>P<<; 0P>>0	M>P< <s0ppr0< th=""><th>M>P<=<0PP>0</th><th>M>P<=R0TS; Q</th><th>M>P<=N0TNPQ</th></s0ppr0<>	M>P<=<0PP>0	M>P<=R0TS; Q	M>P<=N0TNPQ
M>P<=SOPR=0	$M>P \le P0P \le P0$	M>P<=M0PN>0	M>P<; <0PM<0	M>P<; =0PT; 0
M>P<;; 0PRS0	M>P<; MOP <pq< th=""><th>M>P<><0SP=0</th><th>M>P<>=0PN>Q</th><th>M>P<>N0T<r0< th=""></r0<></th></pq<>	M>P<><0SP=0	M>P<>=0PN>Q	M>P<>N0T <r0< th=""></r0<>
M>P<>MOSPMQ	M>P <r<0sm=0< th=""><th>M>P<rn0pr<0< th=""><th>M>P<rt0pnn0< th=""><th>M>P<n<0p>P0</n<0p></th></rt0pnn0<></th></rn0pr<0<></th></r<0sm=0<>	M>P <rn0pr<0< th=""><th>M>P<rt0pnn0< th=""><th>M>P<n<0p>P0</n<0p></th></rt0pnn0<></th></rn0pr<0<>	M>P <rt0pnn0< th=""><th>M>P<n<0p>P0</n<0p></th></rt0pnn0<>	M>P <n<0p>P0</n<0p>

%2*: ;4< =>?@A?=@BC



! "#\$%&'()''*+, &-'*". "#&"/'0'1"2-'3"4/""'*\$55%". "6&7/8'9, 7. +67&+(6': 78'; <=>

Y: 9A'9GEHG99! HGEX'BCDD9E9'93A1@ADA'AD?VA

LAL9! 'LA**

O/762-J'9%"2&/(6+2#'A6K'B(. . \$6+27&+(6'964+6""/+64

M>P<<='

В

M>P<< N'

B @

M>P<<P'

В

M>P<<T'

3

M>P<<M'

(a)

M>P<=: '

3

M > P < = >'

В

M>P<=T'

@

M>P<; N'

В

M>P<; T'

Α

M>P<>: '

B E

M>P<>>'

В

M>P<>S'

В

M>P<>P'

Α

%2*: ;44< =>?@A?=@BC

+DE" 8, 7.1, 44)1*, -*#\$06;70.;, 7<

ΙQ

! "#\$%#! \$&"

"#\$%&'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?



! "#\$\&'()\"+, \&-\"\" \"#\\"\"\O'1\"2-\3\"4\\"\"*\\$55\\" \"6\87\8\9, 7. +67\&+(6\: 78\; <=>

Y: 9A'9GEHG99! HGEK'BCDD9E9'93A1@ADA'AD?VA

LAL9! 'LA**

M>P<>T'

Α

M>P<R='

Α

M>P<RS'

Ε

M>P<RP'

Α

M>P<RM'

Ε

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'



! "#\$\\(\)'\'*+,&-'*". "\(\)\'\'\'\'\'*\\$55\\'\. "6\\(\)\'\\'\\\+67\\(\)\\(\)\'\:\\->

: AGEADA: 'BCDD9E9'CF'9GEHG99! HGE'911?: AGCC! 0/762-J'9%''2&/(6+2#'A6K'B(...\$6+27&+(6'964+6''''/+64

*9: 9*19! 'LA**

M>PT<<0PMSQ	M>PT <nost=0< td=""><td>M>PT=<0PM; 0</td><td>M>PT==0PRMQ</td><td>M>PT=R0STP0</td></nost=0<>	M>PT=<0PM; 0	M>PT==0PRMQ	M>PT=R0STP0
M>PT=S0SM; Q	M>PT=P0STRQ	M>PT; $<0SM=0$	M>PT; >0PN=0	M>PT; R0SM=Q
M>PT; N0PTT0	M>PT>; 0PP>0	M>PT>>0P; <0	M>PT>R0P <mq< td=""><td>M>PT>T0P<=0</td></mq<>	M>PT>T0P<=0
M>PTRN0P><0	M>PTRS0T==0	M>PTRP0PP<0	M>PTN<0PSMQ	M>PTN=0P <m0< td=""></m0<>
M>PTN; 0PRMQ	M>PTNS0SSSQ	M>PTS<0SPPQ	M>PTS>0PNPQ	M>PTSS0SPT0
M>PTSM0P<; Q	M>PTP<0P<>0	M>PTP=0P <n0< td=""><td>M>PTPR0PP<0</td><td>M>PTPS0STNQ</td></n0<>	M>PTPR0PP<0	M>PTPS0STNQ
M>PTPT0PN<0	M>PTPM0P <pq< td=""><td>M>PTT<0SSMQ</td><td>M>PTT>0P=>0</td><td>M>PTTN0P=MQ</td></pq<>	M>PTT<0SSMQ	M>PTT>0P=>0	M>PTTN0P=MQ
M>PTTS0PN>Q	M>PTM; 0PNSQ	M>PTMR0P=M0	M>PTMN0P=P0	M>PTMS0PRTQ
M>PTMP0S:>0	M>PTMMOSS>Q			

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 4)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

<u>=</u>!

! "#\$\\(\)'\'*+,&-'*". "#\\"/'O'1"2-'3"4/""'*\\$55\\". "6\\(7/8'9,7. +67\\(6': 78';<=>

: AGEADA: 'BCDD9E9'CF'9GEHG99! HGE'911?: AGCC!

>==R>S'

В 3

M>PT<>'

F

M>PT<R'

A F E

M>PT<T'

3 9 E

M>PT<M'

A 3

M>PT=; '

F

M>PT=>'

0

M>PT;;'

Ε

M>PT; S'

Ε

M>PT; P'

Ε

M>PT: T'

F

M>PT: M'

0

M>PT>N'

B F

M>PT>S'

0

%2*: ;44< =>?@A?=@BC

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<



! "#\$%\'()\'*+, &-\'*\". "#\\"\'O\1\"2-\3\"4\\"\\\\\\\\$55\\". "6\\7\8\9, 7. +67\\+(6\: 78\; <=>

: AGEADA: 'BCDD9E9'CF'9GEHG99! HGE'9117: AGCC!

LAL9! 'LA**

M>PT>M'

Ε

M>PTR<'

Α

M>PTR; '

Α

M>PTR>'

Ε

M>PTRR'

0

M>PTRT'

A E

M>PTRM'

Ε

M>PTNR'

В

M>PTNT'

Α

M>PTNM'

A B 3

M>PTS; '

0 F

M>PTSR'

A 0

M>PTST'

3 F

M>PTP: '

F

M>PTP>'

A E

%2*: ;44< =>?@A?=@BC

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<



 $! "\#\$\%'()"^*+,\&-'^*". "\#\&"/'O'1"2-'3"4/""'^*\$55\%". "6\&7/8'9,7. +67\&+(6': 78';<=>$

: AGEADA: 'BCDD9E9'CF'9GEHG99! HGE'911?: AGCC!

LAL9! 'LA**

M>PTPN'

Ε

M>PTT='

В

M>PTT; '

0 9 F

M>PTTP'

Α

M>PTM<'

Ε

M>PTM>'

Α

M>PTMT'

Ε

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'



! "#\$%&'()''*+, &-'*". "#&"/'0'1"2-'3"4/""'*\$55%". "6&7/8'9, 7. +67&+(6': 78'; <=>

: A! 'OA*9DH?*'B@! H*1HAG'BCDD9E9'CF'9GEHG99! HGE'AG3'19B@GCDCEW' L99!: A39

O/762-J'9%"2&/(6+2#'A6K'B(...\$6+27&+(6'964+6""/+64

*9: 9*19! 'LA**

M; NS <r0p=r0< th=""><th>M; NS<nosn<q< th=""><th>M; NS < P0P = > 0</th><th>M; NS=; OSMSQ</th><th>M; NS=NOSM=Q</th></nosn<q<></th></r0p=r0<>	M; NS <nosn<q< th=""><th>M; NS < P0P = > 0</th><th>M; NS=; OSMSQ</th><th>M; NS=NOSM=Q</th></nosn<q<>	M; NS < P0P = > 0	M; NS=; OSMSQ	M; NS=NOSM=Q
M; NS=P0P==0	M; NS=T0PSMQ	M; NS=M0P=TQ	M; NS; <0P=PQ	M; NS; ; 0SS=Q
M; NS; N0P <r0< td=""><td>M; NS; SOP=SQ</td><td>M; NS; TOSTSQ</td><td>M; NS; MOSRTQ</td><td>M; NS><0P>TQ</td></r0<>	M; NS; SOP=SQ	M; NS; TOSTSQ	M; NS; MOSRTQ	M; NS><0P>TQ
M; NS >> 0P < NQ	M; NS>S0PN=Q	M; NS>P0P>S0	M; NS>T0P; ; Q	M; NSR<0P; <q< td=""></q<>
M; NSR; 0P; R0	M; NSRNOSPRQ	M; NSRT0PRSQ		

%2*: ;44< =>?@A?=@BC

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

=M



! "#\$%&'()''*+, &-'*". "#&"/'0'1"2-'3"4/""'*\$55%". "6&7/8'9, 7. +67&+(6': 78'; <=>

: A! 'OA*9DH?*'B@! H*1HAG'BCDD9E9'CF'9GEHG99! HGE'AG3'19B@GCDCEW'

L99!: A39

LAL9! 'LA**

O/762-J'9%''2&/(6+2#'A6K'B(...\$6+27&+(6'964+6''''/+64

M; NS=<'

0

M; NS=>'

Ε

M; NS; ='

Α

M; NS; >'

В

M; NS; R'

A E

M; NS > ='

B E

M; NS>R'

3

M; NS>N'

A 3

M; NS>M'

A 3

M; NSRP'

В

%2*: ;44< =>?@A?=@BC



M; SM==0SM>0

"#"\$%"&' "()#*&+(*, -./*\$0&12\$\$"0"%

! "#\$%\'()\'*+, &-\'*\. "#\\"\'O\1\"2-\3\"4\\"*\\$55\\". "6\\7\8\9, 7. +67\\+(6\: 78\;<=>

: A1@A'BCDD9E9'CF'19B@GCDCEW': AGAYALA3W'GC! 1@'LA! ?! 0/762-J'9%''2&/(6+2#'A6K'B(...\$6+27&+(6'964+6''''/+64

*9: 9*19! 'LA**

M; SM<P0P<T0

M; STN=0P>TQ	M; STN; 0P< <q< th=""><th>M; STS<0SMNQ</th><th>M; STS=0P==0</th><th>M; STP=0SP=0</th></q<>	M; STS<0SMNQ	M; STS=0P==0	M; STP=0SP=0
M; STP; OSSRQ	M; STP>0SMNQ	M; STPP0SMTQ	M; STPT0SP>Q	M; STT>0PS>0
M; STTROSTPQ	M; STTT0PN <q< td=""><td>M; STTMOP>RQ</td><td>M; STMP0SP=Q</td><td>M; STMT0STT0</td></q<>	M; STTMOP>RQ	M; STMP0SP=Q	M; STMT0STT0
M; STMMOPMNQ	M; SM<<0SS; Q	M; SM <= 0PT = 0	M; SM<>0PN>Q	M; SM <s0ssp0< td=""></s0ssp0<>

%2*: ;44< =>?@A?=@BC

+DE" 8,7.1,4)1*,-*#\$06;70.;,7<

=0

! "#\$\\(\)'\'*+,&-'*". "#\\"/'O'1"2-'3"4/""'*\\$55\\". "6\\(7/8'9,7. +67\\(6': 78';<=>

: A1@A'BCDD9E9'CF'19B@GCDCEW': AGAYALA3W'GC! 1@'LA!?!

LAL9! 'LA**

O/762-J'9%"2&/(6+2#'A6K'B(. . \$6+27&+(6'964+6""/+64

M; STNR'

0

M; STNN'

B F

M; STNP'

F

M; STNM'

В

M; STS; '

9 E

M; STSS'

Ε

M; STSP'

В

M; STPM'

B F

M; STT='

Ε

M; STM='

A E

M; SM<; '

В

M; SM=N'

Α

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'



! "#\$%&'()''*+, &-'*". "#&"/'0'1"2-'3"4/""'*\$55%". "6&7/8'9, 7. +67&+(6': 78'; <=>

*9: 9*19! 'LA**

M; R=N=0STT0	M; R=N; 0P <r0< th=""><th>M; R=NP0P<; Q</th><th>M; R=SR0P<nq< th=""><th>M; R=SN0SMP0</th></nq<></th></r0<>	M; R=NP0P<; Q	M; R=SR0P <nq< th=""><th>M; R=SN0SMP0</th></nq<>	M; R=SN0SMP0
M; R=SP0P; >0	M; R=STOPPNQ	M; R=SM0P <t0< th=""><th>M; R=P>0TRS0</th><th>M; R=PS0PMS0</th></t0<>	M; R=P>0TRS0	M; R=PS0PMS0
M; R=PT0PMR0	M; R=PM0P>M0	M; $R=T>0PR<0$	M; R=TN0SM<0	M; R=TS0P <r0< th=""></r0<>
M; $R=M=0P><0$	M; R=M; 0SMRQ	M; R=M>0T <sq< th=""><th>M; R; << 0P => 0</th><th>$M; R; \le 0PNM0$</th></sq<>	M; R; << 0P => 0	$M; R; \le 0PNM0$
M; R; <n0pr<0< th=""><th>M; R; < M0P = P0</th><th>M; R; =R0STNQ</th><th>M; R; ; SOSMTQ</th><th>M; R; >R0T=P0</th></n0pr<0<>	M; R; < M0P = P0	M; R; =R0STNQ	M; R; ; SOSMTQ	M; R; >R0T=P0
M; R; R>0PNRQ	M; R; NMOPR>Q	M; R; SNOPN>0		

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

=0



! "#\$%\'()\'*+, &-\'\\". "#\\"\'O\'1\"2-\'3\"4\\"\\\\\\\$55\\". "6\\7\8\9, 7. +67\\+(6\: 78\;<=>

: C?G1'ZHCG'BCDD9E9'CF'9GEHG99! HGE'YA3A: : AGH11A

LAL9! 'LA**

O/762-J'9%"2&/(6+2#'A6K'B(. . \$6+27&+(6'964+6""'/+64

M; R=NS'

@

M; R=NT'

B F

M: R=S: '

Α

M; R=PR'

9

M; R=T='

В

M; R=MS'

B 3 F

M; R=MT'

В

M; R=MM'

0 B

M; R; =>'

В

M; R; =T'

Α

M; R; =M'

Ε

M; R; ; T'

A B

M; R; R; '

0 F

M: R: RT'

Α

%2*: ;44< =>?@A?=@BC

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

?>



! "#\$\&'()\"+, \&-\"\" \"#\\"\"\O'1\"2-\3\"4\\"\"*\\$55\\" \"6\87\8\9, 7. +67\&+(6\: 78\; <=>

: C?G1'ZHCG'BCDD9E9'CF'9GEHG99! HGE'YA3A: : AGH11A

LAL9! 'LA**

M: R: N='

F

M; R; N; '

Α

M; R; S='

Α

M; R; P<'

9

M; R; P; '

Ε

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'



: ?*ADHA! 'BCDD9E9'CF'9GEHG99! HGE'AG3'19B@GCDCEW'Y?: OAZ@A' LA1@AGA: 1@H11A

O/762-J'9%"2&/(6+2#'A6K'B(...\$6+27&+(6'964+6""/+64

*9: 9*19! 'LA**

M>>PN=0PM; 0	M>>PN; 0SM>0	M>>PNR0PNM0	M>>PNS0T<; Q	M>>PNP0ST=0
M>>PS; 0P<=0	M>>PSSOT> <q< td=""><td>M>>PST0PSR0</td><td>M>>PPS0SP=0</td><td>M>>PPP0P=N0</td></q<>	M>>PST0PSR0	M>>PPS0SP=0	M>>PPP0P=N0
M>>PT<0STPQ	M>>PT=0P <p0< td=""><td>M>>PTM0P<mq< td=""><td>M>>PM<0PS>0</td><td>M>>PMT0P>; 0</td></mq<></td></p0<>	M>>PTM0P <mq< td=""><td>M>>PM<0PS>0</td><td>M>>PMT0P>; 0</td></mq<>	M>>PM<0PS>0	M>>PMT0P>; 0
M>>PMMOSS>Q	M>>T <sopr; q<="" td=""><td>M >> T == 0PT; 0</td><td>M > T = ; 0PS = 0</td><td>M >> T; = 0P >> 0</td></sopr;>	M >> T == 0PT; 0	M > T = ; 0PS = 0	M >> T; = 0P >> 0

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

?=



! "#\$%\'()\'*+, \&-\'*\". \"#\\"\'O\'1\"2-\'3\"4\\"*\\$55\\". \"6\\7\8\9, 7. \+67\\+(6\': 78\'; <=>

: ?*ADHA! 'BCDD9E9'CF'9GEHG99! HGE'AG3'19B@GCDCEW'Y?: OAZ@A'

LA1@AGA: 1@H11A

LAL9! 'LA**

O/762-J'9%''2&/(6+2#'A6K'B(...\$6+27&+(6'964+6''''/+64

M>>PNN'

3 F

M>>PNT'

Ε

M>>PS<'

Ε

M>>PS='

3

M>>PS>'

9 E

M>>PSP'

9

M>>PP='

Ε

M>>PP;'

В

M>>PP>'

Ε

M>>PPR'

B F

M>>PPT'

9

M>>PPM'

B F

M>>PT: '

F

M>>PT>'

Ε

%2*: ;44< =>?@A?=@BC



: ?*ADHA! 'BCDD9E9'CF'9GEHG99! HGE'AG3'19B@GCDCEW'Y?: 0AZ@A' LA1@AGA: 1@H11A

LAL9! 'LA**

M>>PTN'

Α

M>>PTT'

F

M>>PM='

3 F

M>>PM; '

Ε

M>>PMS'

В

M>>PMP'

В

M>>T<<'

B F

M>>T<='

Ε

M>>T<>'

Ε

M>>T<N'

A B

M>>T=<'

0 B

M>>T=R'

Ε

M>>T=S'

3

M>>T=T'

F @

M>>T:>'

Ε

%2*: ;44< =>?@A?=@BC

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

?L



! "#\$%\()\'*+, &-\'*\. "#\(\)\'\O\1\"2-\3\"4\\\\\\\$55\\\. \\\\6\7\8\9, 7. +67\(\)\(6\: 78\;<=>

*B: *'*B@CCD'CF'9GEE\'['19B@GCDCEW'YA! ?Y?11W O/762-J'9\''2\\/ (6+2\#'A6K'B(... \$6+27\&+(6'964+6''''/+64

*9: 9*19! 'LA**

M>RN<P0SMPQ

M>RN<M0PRM0

M>RN=<0PTT0

*B: *'*B@CCD'CF'9GEEX'['19B@GCDCEW'YA! ?Y?11W

LAL9! 'LA**

O/762-J'9%''2&/(6+2#'A6K'B(...\$6+27&+(6'964+6''''/+64

M>RN<>'

(a)

M>RN<T'

B E

M>RN=='

Ε

M>RN=; '

Ε

M>RN=>'

F

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE" 8,7.1,4)1*,-*#\$06;70.;,7<

"#\$%%'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

?M



*! 99'GA! AWAGA'E?! ?Y?DA: 'BCDD9E9'CF'9GEHG99! HGE'YCD9GB@9! ! W O/762-J'9%"2&/(6+2#'A6K'B(...\$6+27&+(6'964+6""/+64

*9: 9*19! 'LA**

M>=N<>0PR>0	M>=N <n0pmt0< th=""><th>M>=N<p0sp; 0<="" th=""><th>M>=N<t0p<r0< th=""><th>M>=N=<0P>R0</th></t0p<r0<></th></p0sp;></th></n0pmt0<>	M>=N <p0sp; 0<="" th=""><th>M>=N<t0p<r0< th=""><th>M>=N=<0P>R0</th></t0p<r0<></th></p0sp;>	M>=N <t0p<r0< th=""><th>M>=N=<0P>R0</th></t0p<r0<>	M>=N=<0P>R0
M>=N=>0ST=0	M>=N=T0PSS0	M>=N=M0SPM0	M>=N; $SOSN>0$	M>=N; $POSP<0$
M>=N>SOPN <q< td=""><td>M>=N>P0P>N0</td><td>M>=N>M0P>>0</td><td>M>=NR<0PN<0</td><td>M>=NR=0PPN0</td></q<>	M>=N>P0P>N0	M>=N>M0P>>0	M>=NR<0PN<0	M>=NR=0PPN0
M>=NR>0SM<0	M>=NRP0P=T0	M>=NRT0PRT0	M>=NN; 0P>P0	M>=NNS0P>M0
M>=NNP0PN=0	M>=NNM0PRN0			

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

?N



! "#\$\\(\)'\'*+,&-'*". "#\\"/'O'1"2-'3"4/""'*\$55\\". "6\\(\)78'9,7. +67\\(\)+(6': 78';<=>

*! 99'GA! AWAGA'E?! ?Y?DA: 'BCDD9E9'CF'9GEHG99! HGE'YCD9GB@9!! W

M>=N<R'

В

M>=N<S'

В

M>=N<M'

A 0 B

M>=N=R'

Α

M>=N=N'

В

M>=N;='

0 B 3

M>=N; N'

0 B 3

M>=N; T'

B F

M>=N; M'

A B

M>=N>='

0 B

M>=N>; '

0

M>=N>N'

В

M>=NRR'

0

M>=NRN'

В

%2*: ;44< =>?@A?=@BC

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

?0

! "#\$%#! \$&'

"#\$%&'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?



! "#\$%&'()''*+, &-'*". "#&"/'0'1"2-'3"4/""'*\$55%". "6&7/8'9, 7. +67&+(6': 78'; <=>

*! 99'GA! AWAGA'E?! ?Y?DA: 'BCDD9E9'CF'9GEHG99! HGE'YCD9GB@9! ! W

LAL9! 'LA**

M>=NRM'

В

M>=NN<'

Ε

M>=NN>'

В

%2*: ;44< =>?@A?=@BC



! "#\$%\'()\'*+, &-\'*\. \"#\\"\'O\'1\"2-\'3\"4\\\\\\\\$55\\\\\. \\\6\87/8\9, 7. \\+67\&+(6\': 78\'; <=>

AHG1EH1'BCDD9E9'CF'9GEHG99! HGE'LA1@A: ?11C: 'Y1: 0/762-J'9%''2\%/(6+2\psi'A6K'B(...\\$6+27\&+(6'964+6''''/+64

*9: 9*19! 'LA**

M>S; <R0T><0

M>S; <NOPN>Q

M>S; <P0PM<Q

M > S; = < 0M < NQ

M>S:==0PRN0

M>S; =; 0T<>0

M>S; =>0SPRQ

M>S; =S0PN<0

M>S; =P0P; MQ

M > S; ; = 0T > MQ

AHG1EH1'BCDD9E9'CF'9GEHG99! HGE'LA1@A: ?11C: 'Y1:

LAL9! 'LA**

O/762-J'9%"2&/(6+2#'A6K'B(. . \$6+27&+(6'964+6""/+64

M>S; <='

Α

M>S: <>'

В

M>S: <T'

Ε

M>S; < M'

Ε

M>S; =N'

@

M>S; =M'

Α

M>S;;<'

Ε

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&"

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

?0



! "#\$%\'()\'*+, &-\'*\. "#&\"\'O\'1\"2-\'3\"4\\\\\\\\$55\\\\. \\\"6\\7\8\9, 7. \\\+67\\\+(6\': 78\'; <=>

*1'UC*9L@*''BCDD9E9'CF'9GEHG99! HGE'AG3'19B@GCDCEW'B@CCG3AB@9! ! W' LADA

O/762-J'9%"2&/(6+2#'A6K'B(. . \$6+27&+(6'964+6""/+64

*9: 9*19! 'LA**

M; PRNN0SN; Q	M; PRNS0P <tq< th=""><th>M; PRNT0P<; Q</th><th>M; PRNM0P<<q< th=""><th>M; PRS<0P<n0< th=""></n0<></th></q<></th></tq<>	M; PRNT0P<; Q	M; PRNM0P< <q< th=""><th>M; PRS<0P<n0< th=""></n0<></th></q<>	M; PRS<0P <n0< th=""></n0<>
M; PRS; 0PR>0	M; PRS>0SM; Q	M; PRST0SMT0	M; PRP; 0SMMQ	M; PRPROPPSQ
M; PRPS0P=N0	M; PRPP0P>T0	M; PRPM0SMTQ	M; $PRT<0P=<0$	M; PRT=0SPTQ
M; PRT; 0ST<0	M; PRTR0SM>0	M; PRTNOSMSQ	M; PRTS0PT>0	M; PRTP0PNPQ
M; PRTT0T; ; 0	M; PRM<0P<>0	M; PRM=0PRM0	M; PRM; 0T>T0	M; PRM>0PMTQ
M; PRMROSSTQ	M; PRMSOP; MQ	M; PRMP0T>P0	M; PRMMOSTNQ	

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

l >

! "#\$%&'()''*+, &-'*". "#&"/'0'1"2-'3"4/""'*\$55%". "6&7/8'9, 7. +67&+(6': 78'; <=>

*1'UC*9L@*''BCDD9E9'CF'9GEHG99! HGE'AG3'19B@GCDCEW' B@CCG3AB@9!! W'LADA

LAL9! 'LA**

O/762-J'9%"2&/(6+2#'A6K'B(...\$6+27&+(6'964+6""/+64

M; PRN='

Ε

M; PRN; '

A 3 F

M: PRN>'

0

M; PRNR'

A 0 3

M; PRP>'

Ε

M; PRPN'

Ε

M; PRPT'

A 9

M; PRT>'

Α

M; PRMN'

0 B 3 9

M; PRMT'

Ε

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'



VH*I AUWC1H'BCDD9E9'CF'9GEEX[19B@GCDCEW'VAZ@AY?DA: 0/762-J'9%"2&/(6+2#'A6K'B(... \$6+27&+(6'964+6''"/+64

*9: 9*19! 'LA**

M>M=<>0PPRQ

M>M=<R0SSP0

M>M=<P0PN=0

M>M==<0P: P0

M>M==>0P<>0

M>M==S0P; >0

VH*I AUWC1H'BCDD9E9'CF'9GEEX[19B@GCDCEW'VAZ@AY?DA:

LAL9! 'LA**

O/762-J'9%''2&/(6+2#'A6K'B(...\$6+27&+(6'964+6''''/+64))

M>M=<S'

В

M>M=<T'

@

M>M=<M'

@

M>M==;

В

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%%'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66\#/#7'809(: -8/,78',;7(<89(=>!?

1=



! "#\$%\()\'*+, &-\'*\. "#\(\)\'\O\1\"2-\3\"4\\\\\\\$55\\\. \\\\6\7\8\9, 7. +67\(\)\(6\: 78\;<=>

*'G': ''HG*1H1?19'CF': AGAE9: 9G1'AG3'19B@GCDCEW\': ADHAGYA! A

*9: 9*19! 'LA**

M>><NN0P; PQ

M>><NMOP; SQ

M>><S<0P<R0

M >> < SNOP == 0

M>><ST0PS: 0

M >> < P < 0SSS0

M >> < P = 0PR = 0

*'G': ''HG*1H1?19'CF': AGAE9: 9G1'AG3'19B@GCDCEW': ADHAGYA! A

LAL9! 'LA**

O/762-J'9%''2&/(6+2#'A6K'B(...\$6+27&+(6'964+6''''/+64

M >> < N;

F

M>><N>'

В

M>><S>'

A F

M>><SR'

B F

M>><SP'

9

M >> < P;'

Α

M>><P>'

3

M>><PN'

F

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'



?GHV9! *H1W'BCDD9E9'CF'9GEHG99! HGE\'1@C3?L?Z@A O/762-J'9\"'2\!/(6+2#'A6K'B(...\$6+27\!+(6'964+6''''/+64

*9: 9*19! 'LA**

M; >N <= 0PTPQ M; >N < N0PP; Q M; >N < M0P< SQ M; >N = N0P; NQ

; >N < MOP < SQ M; >N = NOP; NQ M; >N = POT < PQ

M; >N; S0P>RQ

M; >N; T0T; P0

M: >N>=0SM<0

M: >N: : OP: TQ

M; >N; >0P=>0 M: >N>R0P=T0 M; >N; ROPRMO
M; >N>TOTPTO

M; >NR<0STP0

M; >NR; 0SMT0

M: >N=TOTT<0

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE" 8,7.1,4)1*,-*#\$06;70.;,7<

LL

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

! "#\$%&'()''*+, &-'*". "#&"/'0'1"2-'3"4/""'*\$55%". "6&7/8'9, 7. +67&+(6': 78'; <=>

?GHV9! *H1W'BCDD9E9'CF'9GEHG99! HGE\'1@C3?L?Z@A

LAL9! 'LA**

O/762-J'9%"2&/(6+2#'A6K'B(. . \$6+27&+(6'964+6""/+64

M; >N<;'

3 9 F

M;>N<>'

Ε

M: >N < P'

Α

M: >N=='

Α

M; >N=;

B 3 E

M;>N=>'

В

M; >N=R'

В

M; >N=S'

Ε

M; >N; P'

Ε

M; >N>>'

0 B F

M:>N>P'

Α

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'



%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE" 8,7.1,44)1*,-*#\$06;70.;,7<

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

LN



! "#\$%\'()\'*+, &-\'*\. "#&\'\'O\'1\"2-\'3\"4\\"*\\$55\\". "6\\7\8\9, 7. +67\\+(6\: 78\;<=>

*! 99'0?33@A'BCDD9E9'CF'9GEHG99! HGE'FC! 'I C: 9G 0/762-J'B+K+%'964+6""/+64

*9: 9*19! 'LA**

M: M: N=0PQ < R

M; M; N; ONNNR

M; M; NSONSPR

*! 99'0?33@A'BCDD9E9'CF'9GEHG99! HGE'FC! 'I C: 9G

LAL9! 'LA**

0/762-J'B+K+%'964+6""/+64

M; M; N>'

0

%2*: ;44< =>?@A?=@BC

+DE" 8,7.1,44)1*,-*#\$06;70.;,7<

Ţ

@; /6,&#A(%\$,75('. #(! "#\$%#&' (\$;*'B80#(A#C#&;6#A(87A(/8,7'8,7#A(D9(' ()*+,-./01)*2)3)4,56)7.*')06 *8'(8#' #9EF80##G\$.8(1.8C87E(<8.8'/8(H87A.,(I7,C#0\$,'9(J;''898/K



! "#\$\&'()\'*+,\&-\'*\.\ "#\&\'\'O\'1\"2-\'3\"4\\"*\\$55\\". \"6\&7/8\9,7. +67\&+(6\: 78\;<=>

! ATHU'EAG3@H'HG*1H1?19'CF'19B@GCDCEV'U9DDCC! 0/762-J'B+K+\%'964+6""/+64

*9. 9*191 'I A**

M: Q < W = 0WP = R M: Q < W = 0WP = R

M; Q<W; OPSQR

M: Q<W>0N<=R

M: O<WSONS=R

M: Q<M>0NP=R

! ATHU'EAG3@H'HG*1H1?19'CF'19B@GCDCEV'U9DDCC!

LAL9! 'LA**

0/762-J'B+K+%'964+6""/+64

M; Q<WV'

0

M; Q<WM'

0

M; Q < M < '

0 3

M; Q<M; '

@

%2*: ;44< =>?@A?=@BC

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<



: A! 'A1@AGA*H?*'9GEHG99! HGE'BCDD9E9'XC1@A: AGEADA: 0/762-J'B+K+%'964+6""/+64

*9: 9*19! 'LA**

MS <>>; OW < PR

MS <>> Q0N => R

MS<>>NONN>R

MS<>>WONMWR

MS <> S > 0N <= R

MS <> Q; 0W >= R

MS<>0>0PP<R

MS<>QSONQMR

MS <> QQON; = R

MS<>QP0NQPR

: A! 'A1@AGA*H?*'9GEHG99! HGE'BCDD9E9'XC1@A: AGEADA:

LAL9! 'LA**

<u>0/762-J'B+K+%'964+6""/+64</u>

MS<>>='

B 3

MS<>S:'

3

MS<>SW'

0

MS<>Q<'

3

MS<>Q='

0

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

?



! "#\$%\'()\'*+,&-\'\". "#\\"\'O\1\"2-\3\"4\\"*\$55\\". "6\\7\8\9,7. +67\\+(6\: 78\;<=>

<u>TAH'0@A! A1@'BCDD9E9'CF': AGAE9: 9G1'AG3'19B@GCDCEV</u> 0/762-J'B+K+%'964+6""/+64

*9: 9*19! 'LA**

M><SM>0PQWR

M><SMSONNNR

M > < O = = ONONR

M > < O = NONMOR

M><0=W0PNPR

M > < Q = MONQ; R

%2*: ;44< =>?@A?=@BC

+DE" 8, 7.1, 44)1*, -*#\$06;70.;, 7<

- 1



! "#\$\\(\)'\'*+,&-'*". "#\\"/'O'1"2-'3"4/""'*\$55\\". "6\\(\)78'9,7. +67\\(\)+(6': 78';<=>

TAH'0@A! A1@'BCDD9E9'CF': AGAE9: 9G1'AG3'19B@GCDCEV

LAL9! 'LA**

O/762-J'B+K+%'964+6""/+64

M><SM; '

0 9 F

M><SMQ'

0 9

M><SMP'

F

M><SMW'

B 9

M><SMM'

0 9 @

M > < Q < < '

0 9 F

M><Q<='

0 F @

M><Q<S'

9

M > < Q < Q'

F

M><Q<P'

9

M>< Q< N'

9

M > < Q =;

@

M><Q=>'

F

M > < Q = Q'

F E @

%2*: ;44< =>?@A?=@BC

+DE"
8, 7.1, 4()1*, -*#\$06;70.;, 7<

M



! "#\$%\\"()\"*+, \&-\"\". "#\\"\'O\1\"2-\3\"4\\"\"*\\$55\\". "6\\7\8\9, 7. +67\\+(6\: 78\; <=>

TAH'O@A! A1@'BCDD9E9'CF': AGAE9: 9G1'AG3'19B@GCDCEV

LAL9! 'LA**

M><0; <'

9

M > < Q' = '

0 F E @

M > < 0; ; '

Ε

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

" #\$%\'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66\#/#7'809(: -8/,78',;7(<89(=>!?

N



! "#\$%\'()\'*+, &-\'*\. "#&\'\'O\'1\"2-\'3\"4\\"*\\$55\\". "6\\7\8\9, 7. +67\\+(6\: 78\;<=>

: A! 'OA*9DHC*'HG*1H1?19'CF'19B@GCDCEV'AG3'*BH9GB9 0/762-J'B+K+%'964+6""/+64

*9: 9*19! 'LA**

M>WN>;	OWNMR	M>WN>Q0PMSR

: A! 'OA*9DHC*'HG*1H1?19'CF'19B@GCDCEV'AG3'*BH9GB9

LAL9! 'LA**

0/762-J'B+K+%'964+6""/+64

M>WN>P'

0 B 3

M>WN>W'

Α

M>WNS<'

Α

M>WNS; '

0

M>WNO='

В

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%%'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66\#/#7'809(: -8/,78',;7(<89(=>!?

0



! "#\$%\'()\'*+, &-\'*\. \"#\\"\'O\'1\"2-\'3\"4\\\\\\\\$55\\\\\. \\\6\87/8\9, 7. \\+67\&+(6\': 78\'; <=>

HG3H! A'EAG3@H'BCDD9E9'CF'9GEHG99! HGE'FC! 'I C: 9G 0/762-J'B+K+%'964+6""/+64

*9: 9*19! 'LA**

M>MWSQ0W<PR

M>MWSPOW; <R

M>MWQ>0N>SR

M>MWONOW==R

M>MWOMONPSR

M>MWP=0N=PR

M>MWP>0PW=R

M>MWPS0NSQR

HG3H! A'EAG3@H'BCDD9E9'CF'9GEHG99! HGE'FC! 'I C: 9G

LAL9! 'LA**

0/762-J'B+K+%'964+6""/+64

M>MWS=

Α

M>MWS; '

Α

M>MWSS'

A B

M>MWSN'

В

M>MWSW'

Α

M>MWQ='

В

M>MWQ; '

В

M>MWQQ'

A B

M>MWQW'

Α

M>MWP<'

В

%2*: ;44< =>?@A?=@BC +DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

Р



A: AD'TVC1@H'9GEHG99! HGE"BCDD9E9'XCCUALLADDV'XAGTH! ALADDV 0/762-J'B+K+%'964+6""/+64

*9: 9*19! 'LA**

M; W>>SON>SR

M: W >> NONO < R

M: W>>WONOWR

M: W>>MOPMNR

M; W>S; ONWQR

A: AD'TVC1@H'9GEHG99! HGE"BCDD9E9'XCCUALLADDV'XAGTH! ALADDV

LAL9! 'LA**

0/762-J'B+K+%'964+6""/+64

M; W>>; '

9

M: W >> Q'

0

M: W>>P'

F

M; W>S='

9

%2*: ;44< =>?@A?=@BC

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

Q



! "#\$\&'()\'*+, \&-\'*\". \"#\\"\'O\'1\"2-\'3\"4\\"\\'*\\$55\\". \"6\\7\8\9, 7. \+67\\+(6\': 78\'; <=>

BAA!: 9D'9GEHG99! HGE'BCDD9E9'L9! HGA3?'! AGGH 0/762-J'B+K+%'964+6""/+64

*9: 9*19! 'LA**

M>; >S>0NW>R M>; >SS0PMPR

M>; >QNONMPR

M>; >N>0PNSR

M>; >NQ0N=>R

M>; >NPONW>R

M>: >W<0PWPR

M>: >WQ0WSQR

M>; >WP0NQ=R

M>; >WWONNPR

%2*: ;44< =>?@A?=@BC

+DE"
8, 7.1, 4)1*, -*#\$06;70.;, 7<

!>

BAA!: 9D'9GEHG99! HGE'BCDD9E9'L9! HGA3?'! AGGH

LAL9! 'LA**

O/762-J'B+K+%'964+6""/+64

M>; >S=

Α

M>; >SQ'

O

M > ; > Q < '

A 0

M>; >QQ'

3

M>; >PQ'

Α

M>: >N='

Α

M>; >NW'

3 F

M>; >NM'

F

M>; >W='

3

M>; >WS'

F

M>; >WN'

Α

M>; >M<'

0

M>; >M>'

Α

%2*: ;44< =>?@A?=@BC

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

İΪ

! "#\$%\'()\'*+, &-\'*\. "#\\"\'O\'1\"2-\'3\"4\\"*\\$55\\". "6\\7\8\9, 7. +67\\+(6\: 78\;<=>

HDA@HA'BCDD9E9'CF"9GEHG99! HGE'AG3"19B@GCDCEV': ?DAUCC! '

: CCUA11?L?Y@A

0/762-J'B+K+%'964+6""/+64

*9: 9*19! 'LA**

M>QSW; 0PNNR

M>QSM<0N>QR

M>QSMQ0W; WR

M>QQ<MON>=R

M>QQ=<0N:>R

M>QQ=SONP; R

M>QQ=Q0N<WR

HDA@HA'BCDD9E9'CF"9GEHG99! HGE'AG3"19B@GCDCEV': ?DAUCC! '

: CCUA11?L?Y@A

LAL9! 'LA**

<u>0/762-J'B+K+%'964+6""/+64</u>

M>QSW='

F

M>QSW>'

0

M>QSWV'

Α

M>QSM>'

F @

M>QSMM'

В

M>QQ<; '

F

M>QQ<S'

Ε

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

! =



! "#\$%\'()\'*+, &-\'*\. "#&\'\'O\'1\"2-\'3\"4\\"*\\$55\\". "6\\7\8\9, 7. +67\\+(6\: 78\;<=>

X: 9A'9GEHG99! HGE*I*'BCDD9E9'93A1@ADA'AD?UA 0/762-J'B+K+%'964+6""/+64

*9: 9*19! 'LA**

M>N=PSON>=R	M>N=PQ0PPNR	M>N=PP0N>< R	M>N=PW0P; SR	M>N=N=0PMQR
M>N=N; OPWNR	M>N=NPOPNPR	M>N=NMON=SR	M>N=W<0NS>R	M>N=W=0NP>R
M>N=WSON>< R	M>N=WQ0N= <r< th=""><th>M>N=WN0PWPR</th><th>M>N=M<0PWMR</th><th>M>N=M=0N<mr< th=""></mr<></th></r<>	M>N=WN0PWPR	M>N=M<0PWMR	M>N=M=0N <mr< th=""></mr<>
M>N=M; ON <pr< td=""><td>M>N=MP0NQPR</td><td>M>N; <>ONNMR</td><td></td><td></td></pr<>	M>N=MP0NQPR	M>N; <>ONNMR		

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?



! "#\$%&'()''*+, &-'*". "#&"/'0'1"2-'3"4/""'*\$55%". "6&7/8'9, 7. +67&+(6': 78'; <=>

X: 9A'9GEHG99! HGEI'BCDD9E9'93A1@ADA'AD?UA

LAL9! 'LA**

O/762-J'B+K+%'964+6""/+64

M>N=P:'

В

M>N=P>'

0 E @

M>N=PN'

@

M>N=N<'

E @

M>N=NN'

A 0 3 9 F E

M>N=NW'

A 0 E

M>N=W>'

E @

M>N=M>'

3

M>N=MS'

3

M>N; <<'

F E @

M>N: <S'

0

M>N; < N'

F

%2*: ;44< =>?@A?=@BC



! "#\$%\()\'*+,&-\'\". "#\(\)\'\O\1\"2-\3\"4\\"*\\$55\\". "6\(\)7\8\9,7. +67\(\)+(6\: 78\';<=>

: ?*ADHA! 'BCDD9E9'CF'9GEHG99! HGE'AG3'19B@GCDCEV'X?: OAY@A'

LA1@AGA: 1@H11A O/762-J'B+K+%'964+6""/+64

*9: 9*19! 'LA**

M>>M>Q0NNNR M>>MS<0NSWR M>>MS=0NQPR M>>M>=0NMQRM>>M>: 0N: QR

M>>MS>0N>< RM>>MSWON; >R M>>MQ=0N; NR M>>MQ>0PMQR M>>MQPONSNR

M >> MOWOW << RM>>MPSON>; R

> %2*: ;4< =>?@A?=@BC

! "#\$%#! \$&'

+DE" 8, 7.1, 44)1*, -*#\$06;70.;, 7<

! M



! "#\$\\(\)'\'*+,&-'*". "#\\"/'O'1"2-'3"4/""'*\\$55\\". "6\\(7/8'9,7. +67\\(6': 78';<=>

: ?*ADHA! 'BCDD9E9'CF'9GEHG99! HGE'AG3'19B@GCDCEV'X?: OAY@A'

LA1@AGA: 1@H11A

LAL9! 'LA**

<u>0/762-J'B</u>+K+%'964+6""/+64

M>>M>P'

A 9

M>>M>W'

В 3

M>>MSS'

3

M>>MSP'

Α

M>>MSN'

3

M>>MQ<'

F

M>>MQ; '

 A

M>>MQS'

В 3

M >> MP = '

0

M>>MPQ'

3

M>>MPP'

Α

M>>MPW'

@

%2*: ;44< =>?@A?=@BC



! "#\$%\'()\'*+, &-\'*\. "#&\'\'O\'1\"2-\'3\"4\\"*\\$55\\". "6\\7\8\9, 7. +67\\+(6\: 78\;<=>

*B: *'*B@CCD'CF'9GEEl'['19B@GCDCEV'XA! ?X?11V 0/762-J'B+K+\%'964+6""/+64

*9: 9*19! 'LA**

G+%

*B: *'*B@CCD'CF'9GEE*l*'['19B@GCDCEV'XA! ?X?11V

LAL9! 'LA**

0/762-J'B+K+%'964+6""/+64

M>SP; ='

В

M>SP;;'

E @

M>SP: Q'

В

M>SP; N'

B 3 @

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE" 8,7.1,4)1*,-*#\$06;70.;,7<

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?



*! 99'GA! AVAGA'E?! ?X?DA: 'BCDD9E9'CF'9GEHG99! HGE'XCD9GB@9! ! V 0/762-J'B+K+%'964+6""/+64

*9: 9*19! 'LA**

M>=PNS0NNQR

M>=PNQ0PW; R

M>=PNMON; NR

M>=PWS0N>WR

M>=PWP0NOPR

M>=PWN0PMWR

M > = PM = 0PO < R

M>=PMSON; SR

*! 99'GA! AVAGA'E?! ?X?DA: 'BCDD9E9'CF'9GEHG99! HGE'XCD9GB@9! ! V

LAL9! 'LA**

0/762-J'B+K+%'964+6""/+64

M>=PN: '

В

M>=PNP'

3 F

M>=PW<'

0 B 3

M>=PWV'

0 3 F

M>=PWM'

3

M>=PM<'

F

M>=PM>'

0 E

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'



AHG1EH1'BCDD9E9'CF'9GEHG99! HGE'LA1@A: ?11C: 'X1: 0/762-J'B+K+%'964+6""/+64

*9: 9*19! 'LA**

M>P>>S0PN; R

M>P>>PONP<R

M>P>>NOPM: R

M>P>>W0N<=R

M>P>S=0NN=R

M>P>S>0N>=R

M>P>SSOPMWR

AHG1EH1'BCDD9E9'CF'9GEHG99! HGE'LA1@A: ?11C: 'X1:

LAL9! 'LA**

0/762-J'B+K+%'964+6""/+64

M>P>>='

3

M>P>>; '

A O B F E

M>P>>>'

0 F

M>P>>Q'

A B

M>P>>M'

В

M>P>S; '

@

M>P>SQ'

Α

M>P>SP'

Ε

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

" #\$%%'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?



*1'TC*9L@*''BCDD9E9'CF'9GEHG99! HGE'AG3'19B@GCDCEV'B@CCG3AB@9!! V' LADA

0/762-J'B+K+%'964+6""/+64

*9: 9*19! 'LA**

M: NP==0NPSR

M: NP=>0NS=R

M: NP=S0NPQR

M: NP=N0PMQR

M: NP:: OPNSR

*1'TC*9L@*''BCDD9E9'CF'9GEHG99! HGE'AG3'19B@GCDCEV'

B@CCG3AB@9!!V'LADA

LAL9! 'LA**

0/762-J'B+K+%'964+6""/+64

M; NP=Q'

@

M; NP=W'

Ε

M; NP=M'

Ε 3 @

> %2*: ;44< =>?@A?=@BC

+DE" 8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',:7(<89(=>!? ! "#\$%#! \$&'



%2*: ;44< =>?@A?=@BC

+DE" 8,7.1,44)1*,-*#\$06;70.;,7<

! "#\$%#! \$&' "#\$%\() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66\(#/#7'809(: -8/,78',;7(<89(=>!?

<u>=</u>!



! "#\$%\'()\'*+, &-\'*\. \"#\\"\'O\'1\"2-\'3\"4\\\\\\\\$55\\\\\. \\\6\87/8\9, 7. \\+67\&+(6\': 78\'; <=>

*! 99'0?33@A'BCDD9E9'CF'9GEHG99! HGE'FC! 'I C: 9G 0/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

*9: 9*19! 'LA**

M: M>N=0PQQR

M; M>N>0PQQR

M: M>NSOQ=>R

M: M>NTOPM: R

M: M>NP000>R

M; M>NQ0Q>SR

M: M>NNOPMPR

M; M>NMOQ; NR

*! 99'0?33@A'BCDD9E9'CF'9GEHG99! HGE'FC! 'I C: 9G

LAL9! 'LA**

<u>O/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64</u>

M; M>N; '

F

%2*: ;44< =>?@A?=@BC

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

Ţ



! "#\$%\'()\'*+, &-\'*\. \"#\\"\'O\'1\"2-\'3\"4\\\\\\\\$55\\\\\. \\\6\87/8\9, 7. \\+67\&+(6\': 78\'; <=>

! AUHV'EAG3@H'HG*1H1?19'CF'19B@GCDCEW'V9DDCC! O/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

*9: 9*19! 'LA**

M: T: <>0POSR

M; T; < POQQ = R

M; T; < NOQNSR

M; T; <M0PQ; R

M: T: ==00 < TR

M; T; =: 0Q < SR

M; T; =T0Q=<R

M: T: =MOQ=NR

! AUHV'EAG3@H'HG*1H1?19'CF'19B@GCDCEW'V9DDCC!

LAL9! 'LA**

0/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

M; T; <; '

F E

M: T: <S'

В

M: T: <T'

M; T; < Q'

M; T; =S'

B E

M; T; =P'

Ε

M; T; ; <'

F Ε

> %2*: ;44< =>?@A?=@BC



! "#\$%\'()\'*+, &-\'*\. "#&\"\'O\'1\"2-\'3\"4\\\\\\\\$55\\\\. \\\"6\\7\8\9, 7. \\\+67\\\+(6\': 78\'; <=>

*9: 9*19! 'LA**

M; >=>> 0QTTR

M; >=> SOQSTR

M; >=>TOQ=MR

M; >=> Q0Q <= R

M: >=>MOOT<R

M: >= S < 0NQ: R

M: >= S = 0NPSR

M; >=SNOQ < QR

M:>=SMOONNR

M: >= T = 0N == R

M; >=T>0N<NR

M; >= TTOQSQR

M; >= P < 0Q >= R

ECV11/BCDD9E9'CF'9GEHG99! HGE'LAHGAV?

LAL9! 'LA**

O/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

M: >=>N'

B 9

M; >=S;'

Ε

M: >=T:'

В

M: >=TS'

Ε

M: >=TQ'

B 3 E

M: >=TN'

F

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'



! "#\$%\'()\'*+, &-\'*\. "#&\"\'O\'1\"2-\'3\"4\\\\\\\\$55\\\\. \\\"6\\7\8\9, 7. \\\+67\\\+(6\': 78\'; <=>

! AUAEH! H'*B@CCD'CF'9GEHG99! HGE'AG3'19B@GCDCEW 0/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

*9: 9*19! 'LA**

M; PS>=0PMNR

M; PS>; 0PMNR

M; PS >> 0Q = SR

M; PS>S0Q=SR

M: PS>T00=NR

M: PS>P0PPQR

M: PS>Q0Q=: R

M; PS>NOQPPR

M; PS>MON; >R

M: PSS<0NMPR

M; PSS=0PNQR

M; PSS>0QTMR

LAL9! 'LA**

O/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

G+%

%2*: ;44< =>?@A?=@BC +DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

- 1



! "#\$%\'()\'*+, &-\'*\. \"#\\"\'O\'1\"2-\'3\"4\\\\\\\\$55\\\\\. \\\6\87/8\9, 7. \\+67\&+(6\': 78\'; <=>

: A! 'A1@AGA*H?*'9GEHG99! HGE'BCDD9E9'YC1@A: AGEADA: 0/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

*9: 9*19! 'LA**

MS<SPN0Q=PR

MS<SPMON; <R

MS<SQ=0QTSR

MS<SO>0PN>R

MS<SOP0000R

MS<SQN0Q<NR

MS<SOM0O<<R

: A! 'A1@AGA*H?*'9GEHG99! HGE'BCDD9E9'YC1@A: AGEADA:

LAL9! 'LA**

<u>0/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64</u>

MS<SP='

3

MS<SP>'

A B 9

MS<SPS'

В

MS<SPP'

A F

MS<SPQ'

3 E

MS<SQT'

9

MS<SN='

Ε

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

" #\$%\'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66\#/#7'809(: -8/,78',;7(<89(=>!?

M



! "#\$\&'()\'*+,\&-\'*\.\ "#\&\'\'O\'1\"2-\'3\"4\\"*\\$55\\". \"6\&7/8\9,7. \+67\&+(6\: 78\;<=>

UAH'O@A! A1@'BCDD9E9'CF': AGAE9: 9G1'AG3'19B@GCDCEW 0/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

*9: 9*19! 'LA**

M><P>S00P: R

M > < P > 000T > R

M><PS<00<OR

M><PS=00S=R

UAH'O@A! A1@'BCDD9E9'CF': AGAE9: 9G1'AG3'19B@GCDCEW

LAL9! 'LA**

0/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

M>< P>>'

В

M><P>N'

F

M><P>M'

M><PS; '

F Ε

> %2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE" 8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%%'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?



! "#\$\&'()\'*+,\&-\'*\.\ "#\&\'\'O\'1\"2-\'3\"4\\"*\\$55\\". \"6\&7/8\9,7. \+67\&+(6\: 78\;<=>

: A! 'OA*9DHC*'HG*1H1?19'CF'19B@GCDCEW'AG3'*BH9GB9 O/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

*9: 9*19! 'LA**

M>NNP; 0PQQR

M>NNP>0Q<TR

M>NNPM0OSPR

M>NNQ=0P>MR

M>NNOTOO: MR

M>NNOP0O<>R

M>NNOOOOP>R

M>NNQN0PP; R

M>NNN<0QSTR

: A! 'OA*9DHC*'HG*1H1?19'CF'19B@GCDCEW'AG3'*BH9GB9

LAL9! 'LA**

O/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

M>NNPS'

F

M>NNPT'

Ε

M>NNQ<'

F

M>NNQ: '

3

M>NNQ>'

A B E

M>NNQS'

E @

M>NNQM'

B @

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&"

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<



! "#\$%\'()\'*+, &-\'*\. \"#\\"\'O\'1\"2-\'3\"4\\\\\\\\$55\\\\\. \\\6\87/8\9, 7. \\+67\&+(6\': 78\'; <=>

HG3H! A'EAG3@H'BCDD9E9'CF'9GEHG99! HGE'FC! 'I C: 9G 0/762-J'B(. 5\&"/'*2+"62"'76K'964+6""/+64

*9: 9*19! 'LA**

M>MMQ=0PQSR

M>MMQ; 0QTQR

M>MMQ>0PT=R

M>MMQSOP; TR

M>MMOTON=MR

M>MMQP0PTSR

M>MMQQQQ<QR

M>MMQM0PS<R

M>MMN<0PO>R

M>MMN; 0PQ=R

HG3H! A'EAG3@H'BCDD9E9'CF'9GEHG99! HGE'FC! 'I C: 9G

LAL9! 'LA**

O/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

M>MMN='

B 3 9 F

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

Р



! "#\$%\(')''*+, &-'*". "#&"/'0'1"2-'3"4/""'*\$55%". "6&7/8'9, 7. +67&+(6': 78'; <=>

A3H'*@AGYA! A'HG*1H1?19'CF'9GEHG99! HGE'AG3'19B@GCDCEW'YADA3W 0/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

*9: 9*19! 'LA**

M; MQS=0PMQR

M: MOS>00==R

M: MOSTOPTOR

M: MOSOOPM: R

M: MOSNOOOR

M; MQSM0Q=MR

M: MQT=0Q << R

A3H'*@AGYA! A'HG*1H1?19'CF'9GEHG99! HGE'AG3'19B@GCDCEW'YADA3W

LAL9! 'LA**

O/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

M; MQS; '

3

M; MQT<'

Ε

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 4)1*, -*#\$06;70.;, 7<

"#\$%%'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

0



A: AD'UWC1@H'9GEHG99! HGE"BCDD9E9'YCCVALLADDW'YAGUH! ALADDW O/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

*9: 9*19! 'LA**

M; NST=0Q<SR

M; NST; 0QQMR

M; NST>0Q<NR

M: NSTTOPMQR

M: NSTO0OTPR

M; NSTNOQ; =R

M; NSTMOQMSR

M; NSP<0PP<R

M; NSP=0N>SR

M; NSP; 0Q<<R

M: NSP>0N>=R

M; NSPS0Q; TR

M: NSPT0QSPR

M; NSPP0Q=<R

M: NSPM0ON=R

M; NSQ<0QS>R

A: AD'UWC1@H'9GEHG99! HGE"BCDD9E9'YCCVALLADDW'YAGUH! ALADDW

LAL9! 'LA**

O/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

M: NSPO'

3

M; NSPN'

Ε

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

" #\$%&'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

!>



BAA!: 9D'9GEHG99! HGE'BCDD9E9'L9! HGA3?'! AGGH 0/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

*9: 9*19! 'LA**

M>; T<; 0PQTR

M >; T < SOQ; =R

M>; T<T0Q<NR

M>; T<MOQ>NR

M>: T==0QSPR

M>; T=M0QSNR

M > ; T : =0Q >> R

M>; T; ; 0Q; MR

M>; T; POQNTR

BAA!: 9D'9GEHG99! HGE'BCDD9E9'L9! HGA3?'! AGGH

LAL9! 'LA**

<u>O/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64</u>

M>; T<N'

3

M>; T=; '

B 9 F

M>: T=T'

A 3 9

M>: T=P'

3

M>; T; <'

3 9 F

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66&#/#7'809(: -8/,78',; 7(<89(=>!?

!!



F939! AD'HG*1H1?19'CF'*BH9GB9'AG3'19B@GCDCEW': CCYAGG?! 'AGEA: ADH 0/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

*9: 9*19! 'LA**

M><MM; OPNSR

M><MMS0PS<R

M><MMP0QS; R

M > < MMOOO = SR

M>=<<=00MTR

M>=<<>0PQNR

M > = << SOQ; = R

M>=<< MOQN>R

M>=<=<0Q<QR

M>=<=SOQP=R

M>=<; QOQSQR

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

" #\$%&'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

!=



F939! AD'HG*1H1?19'CF'*BH9GB9'AG3'19B@GCDCEW': CCYAGG?! '

AGEA: ADH

<u>LAL9! '</u>LA**

O/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

M><MMM'

В

M>=<<<'

В

M>=<<; '

В

M>=<<T'

В

M>=<< P'

В 3

M>=<=>'

В

M>=<=T'

Ε

M>=<=Q'

Ε

M>=<=M'

B 9 F

M>=<; ='

3

M>=<; S'

В

M>=<; P'

B 9

M>=<><'

B 9 F

%2*: ;44< =>?@A?=@BC

+DE" 8,7.1,4)1*,-*#\$06;70.;,7<



HDA@HA'BCDD9E9'CF"9GEHG99! HGE'AG3"19B@GCDCEW': ?DAVCC! ' : CCVA11?L?Z@A

O/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

*9: 9*19! 'LA**

M>TPT=0PM<R

HDA@HA'BCDD9E9'CF"9GEHG99! HGE'AG3"19B@GCDCEW': ?DAVCC! '

: CCVA11?L?Z@A

LAL9! 'LA**

<u>O/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64</u>

M>TP: M'

E @

M>TP>S'

Ε

M>TP>T'

B E

M>TP>P'

B 9

M>TPS='

B @

M>TPS: '

В

M>TPS>'

B @

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&"

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

" #\$%&'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?



! "#\$%\'()\'*+, &-\'*\. "#&\"\'O\'1\"2-\'3\"4\\\\\\\\$55\\\\. \\\"6\\7\8\9, 7. \\\+67\\\+(6\': 78\'; <=>

Y: 9A'9GEHG99! HGEX'BCDD9E9'93A1@ADA'AD?VA O/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

*9: 9*19! 'LA**

M>Q>==0Q>>R

M>Q>=; OPMPR

M>Q>=>0Q>MR

M>Q>=Q0QP>R

M>0>=N0PMMR

M>Q>=MOQNPR

M>Q>;; OPNQR

M>0>: S00=SR

M>Q>>=0Q=PR

Y: 9A'9GEHG99! HGEX'BCDD9E9'93A1@ADA'AD?VA

LAL9! 'LA**

O/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

M>Q>:<'

F

M>Q>; >'

В

M>Q>: Q'

Ε

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

" #\$%&'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

! M



: AGEADA: 'BCDD9E9'CF'9GEHG99! HGE'911?: AGCC! 0/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

*9: 9*19! 'LA**

M>N<<SOPMSR

M>N<< TOPMQR

M>N<<P0Q<TR

M>N<<NOQPTR

M>N<=<0N>MR

M>N<==00>SR

M>N<=:0OSSR

M>N<=S0QPMR

M>N<;; 0Q>NR

M>N<;>OPTTR

: AGEADA: 'BCDD9E9'CF'9GEHG99! HGE'911?: AGCC!

LAL9! 'LA**

<u>0/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64</u>

M>N<=>'

F

M>N<=T'

9

M>N<=Q'

F

M>N<=N'

В

M>N<; S'

B 3 9

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&"

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

" #\$%&'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?



! "#\$%\'()\'*+, &-\'*\. "#&\"\'O\'1\"2-\'3\"4\\\\\\\\$55\\\\. \\\"6\\7\8\9, 7. \\\+67\\\+(6\': 78\'; <=>

: A! 'OA*9DH?*'B@! H*1HAG'BCDD9E9'CF'9GEHG99! HGE'AG3'19B@GCDCEW'

L99!: A39

<u>O/762-J'B(. 5\$&"/'*2+"62"'76K'9</u>64+6""/+64

*9: 9*19! 'LA**

M; TQTNON; PR

M; TQPP0QT; R

M: TQPM0MS<R

M: TQQ<0Q: <R

: A! 'OA*9DH?*'B@! H*1HAG'BCDD9E9'CF'9GEHG99! HGE'AG3'19B@GCDCEW'

L99!: A39

LAL9! 'LA**

O/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

M: TQT='

Ε

M; TQTM'

Ε

M; TQPT'

9

M; TQPQ'

F

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&"

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%%'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66\#/#7'809(: -8/,78',;7(<89(=>!?



! "#\$%'()''*+,&-'*". "#&"/'0'1"2-'3"4/""'*\$55%". "6&7/8'9,7. +67&+(6': 78';<=>

: A1@A'BCDD9E9'CF'19B@GCDCEW': AGAYALA3W'GC! 1@'LA! ?! 0/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

*9: 9*19! 'LA**

M; Q<;; 0QSNR

M; Q<; M0PT>R

M; Q<>; 0QP; R

M; Q<>S0PQTR

M; Q<>T0Q; SR

M: Q<>PON: TR

M; Q <> Q0Q >= R

M: O<>N000TR

M; Q<S<0Q; PR

M: Q < S: ON: =R

M; Q<STONQQR

: A1@A'BCDD9E9'CF'19B@GCDCEW': AGAYALA3W'GC! 1@'LA! ?!

LAL9! 'LA**

<u>O/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64</u>

M: Q<: T'

В

M; Q<; P'

В

M; Q<; Q'

3

M; Q <> <'

3

M; Q <>='

Ε

M; Q <> M'

9 E

M; Q < SS'

В

M; Q < SQ'

В

M; Q<SN'

В

M; Q < SM'

3

%2*: ;44< =>?@A?=@BC +DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

ļΡ



! "#\$%\()\'*+,&-\'\". "#\(\)\'\O\1\"2-\3\"4\\"*\\$55\\". "6\(\)7\8\9,7. +67\(\)+(6\: 78\';<=>

: C?G1'ZHCG'BCDD9E9'CF'9GEHG99! HGE'YA3A: : AGH11A 0/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

*9: 9*19! 'LA**

M; S>NP0Q<TR

M; S>M<0Q; TR

M; S>MS0Q<NR

 $M: SS \le 0PM \le R$

M; SS<TONM; R

M: SS == 0QN > R

M: SS=N0PN=R

M; SS; <0N=; R

M; SS; NOQPTR

M; SS; MOQ=QR

M; SS>Q0QSSR

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE" 8,7.1,4)1*,-*#\$06;70.;,7<



! "#\$%&'()''*+, &-'*". "#&"/'0'1"2-'3"4/""'*\$55%". "6&7/8'9, 7. +67&+(6': 78'; <=>

: C?G1'ZHCG'BCDD9E9'CF'9GEHG99! HGE'YA3A: : AGH11A

LAL9! 'LA**

O/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

M; S>N='

0 B

M; S>N; '

В 3

M; S>NS'

9

M; S>NT'

B E

M; S>NN'

B 9

M; S>M>'

B 9

M; S>MP'

9 F

M; S>MN'

Ε

M; SS<P'

Ε

M; SS<N'

Ε

M; SS<M'

9

M; SS=<'

3

M; SS=; '

В

M: SS=T'

F

%2*: ;44< =>?@A?=@BC

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

=>



 $! "\#\$\%'()"^*+,\&-'^*". "\#\&"/'O'1"2-'3"4/""'^*\$55\%". "6\&7/8'9,7. +67\&+(6': 78';<=>$

: C?G1'ZHCG'BCDD9E9'CF'9GEHG99! HGE'YA3A: : AGH11A

LAL9! 'LA**

M: SS=Q'

F

M; SS=M'

B 9

M; SS; ='

3

M; SS; P'

В

M; SS>='

В

M; SS>P'

Α

M; SSS>'

В

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE" 8, 7.1, 44)1*, -*#\$06;70.;, 7<



: ?*ADHA! 'BCDD9E9'CF'9GEHG99! HGE'AG3'19B@GCDCEW'Y?: OAZ@A'

LA1@AGA: 1@H11A

O/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

*9: 9*19! 'LA**

M>S<MMOPNQR M>S=<<0QM; R M>S=<=0QTMR M>S=<; 0QQMR

: ?*ADHA! 'BCDD9E9'CF'9GEHG99! HGE'AG3'19B@GCDCEW'Y?: 0AZ@A'

LA1@AGA: 1@H11A

LAL9! 'LA**

O/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

M>S<NN'

Α

M>S<MS'

3 E

M>S<MP'

3

M>S<MN'

B 3

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&"

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%%'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66\#/#7'809(: -8/,78',;7(<89(=>!?



*B: *'*B@CCD'CF'9GEE\'['19B@GCDCEW'YA! ?Y?11W 0/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

*9: 9*19! 'LA**

M>SQS=0PM=R	M>SQS; $0Q>M>SQS>0QMNRM>SQSSON=NRM>SQST0QPPR$	M>SQS>0QMNR	M>SQSSON=NR	M>SQST0QPPR
M>SQSP0PTPR	M>SQSQ0NSNR	M>SQSM0QPNR	M>SQT=0Q=;R	M>SQT; ONT>R
M>SQT>0Q=SR	M>SQTTONT>R	M>SQTQ0Q <mr< td=""><td>M>SQTN0PSQR</td><td>M>SQTMOQTSR</td></mr<>	M>SQTN0PSQR	M>SQTMOQTSR
M>SQP=0QQNR	M>SQP; 0QMPR	M>SQP>0Q=PR	M>SQPS0QTNR	

*B: *'*B@CCD'CF'9GEE\"['19B@GCDCE\"YA! ?Y?11\"

LAL9! 'LA**

0/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

M>SOT<

Ε

M>SQP<'

Ε

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

=?



*! 99'GA! AWAGA'E?! ?Y?DA: 'BCDD9E9'CF'9GEHG99! HGE'YCD9GB@9! ! W 0/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

*9: 9*19! 'LA**

M>=N<=0Q>PR

M>=N<>0QQSR

M >= N < TOQ; QR

M>=N<P0PQTR

M>=N=<00M:R

M>=N=>0Q=QR

M>=N=P0OTPR

M>=N=Q0PPTR

M>=N; =0PMTR

M>=N; ; 0QS=R

M>=N; POQS; R

M>=N: NOPMSR

*! 99'GA! AWAGA'E?! ?Y?DA: 'BCDD9E9'CF'9GEHG99! HGE'YCD9GB@9!! W

LAL9! 'LA**

0/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

M>=N<N'

F

M>=N=='

B 9

M>=N=S'

A F

M>=N=T'

B E

M>=N=N'

В

M>=N=M'

3

M>=N;>'

Ε

M>=N; T'

В

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&"

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%%'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66\#/#7'809(: -8/,78',;7(<89(=>!?

=L



! "#\$%\'()\'*+, &-\'*\. \"#\\"\'O\'1\"2-\'3\"4\\\\\\\\$55\\\\\. \\\6\87/8\9, 7. \\+67\&+(6\': 78\'; <=>

AHG1EH1'BCDD9E9'CF'9GEHG99! HGE'LA1@A: ?11C: 'Y1: 0/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

*9: 9*19! 'LA**

M>PST=0QQNR

M>PSTT0Q; TR

M>PSTN0QPTR

M>PSTMON=PR

M>PSP<00=<R

M>PSPS0QQ: R

M>PSPT00POR

AHG1EH1'BCDD9E9'CF'9GEHG99! HGE'LA1@A: ?11C: 'Y1:

LAL9! 'LA**

O/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

M>PST; '

Ε

M>PST>'

B F E

M>PSTS'

Α

M>PSP='

Α

M>PSP; '

В

M>PSP>'

В

M>PSPP'

В

M>PSPQ'

В

M>PSO<'

В

M>PSQ='

Ε

M>PSQ; '

F

%2*: ;44< =>?@A?=@BC +DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

! "#\$%#! \$&"

"#\$%%'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66\#/#7'809(: -8/,78',;7(<89(=>!?

=M



*1'UC*9L@*''BCDD9E9'CF'9GEHG99! HGE'AG3'19B@GCDCEW'B@CCG3AB@9! ! W' LADA

O/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

*9: 9*19! 'LA**

M; QQ >= 0N >; R

M; QQ>; 0Q<QR

M: QQ>>0QNQR

M: QQ>Q0QTTR

M: QQ>NOQQ<R

M; QQS; 0QS>R

M; QQS>0Q>MR

M; QQSS0QT=R

M; QQST0Q = < R

M; QQSPONS; R

*1'UC*9L@*''BCDD9E9'CF'9GEHG99! HGE'AG3'19B@GCDCEW'

B@CCG3AB@9!!W'LADA

LAL9! 'LA**

0/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

M; QQ>P'

9

M; QQ>M'

B 3 E

M; QQS='

9

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

" #\$%&'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

=N



VH*I AUWC1H'BCDD9E9'CF'9GEEX[19B@GCDCEW'VAZ@AY?DA: 0/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

*9: 9*19! 'LA**

M>M; ; ; 0QPPR

M>M; ; SOQ=QR

M>M;; T0QT; R

M>M;;Q0PMPR

M>M;; NOQ; >R

M>M; ><0N=TR

M>M; >SOQ=<R

M>M; >P0N<>R

M>M; S<0QQSR

M>M; S>0PQMR

VH*I AUWC1H'BCDD9E9'CF'9GEEX[19B@GCDCEW'VAZ@AY?DA:

LAL9! 'LA**

0/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

M > M; ; = '

В

M>M;; >'

В

M>M: ; P'

F

M>M;; M'

Α

M>M;>='

B E

M>M;>Q'

A B

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

" #\$%&'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

=0



*'G': ''HG*1H1?19'CF': AGAE9: 9G1'AG3'19B@GCDCEW\': ADHAGYA! A

*9: 9*19! 'LA**

M>>=N=0QNPR

M>>=N>0Q><R

M>>=NT0OOSR

M>>=NNOQMPR

M>>=NM0PO>R

M>>=M<0QQ; R

M>>=MT0QPTR

M>>=MP0QM>R

M>>=MQ0Q: NR

M>>=MNOQTTR

M >; << 0Q > MR

*'G': ''HG*1H1?19'CF': AGAE9: 9G1'AG3'19B@GCDCEW\': ADHAGYA! A

LAL9! 'LA**

O/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

M>>=N;

9

M>>=NS'

3

M>>=M>'

В

M>>=MS'

В

M>>; <='

B 9

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

" #\$%&'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

=P



! "#\$\&'()\'*+,\&-\'*\.\ "#\&\'\'O\'1\"2-\'3\"4\\"*\\$55\\". \"6\&7/8\9,7. +67\&+(6\: 78\;<=>

?GHV9! *H1W'BCDD9E9'CF'9GEHG99! HGE\'1@C3?L?Z@A O/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

*9: 9*19! 'LA**

M; >PT=0Q << R

M: >PT>0QS<R

M: >PTOOPSTR

M: >PTNOQ=TR

M; >PP=0QP; R

M: >PP>0PMPR

M: >PPT0N==R

M; >PPQ0PPNR

M; >PPM0QN=R

M: >PQ < 0PMQR

M; >PQ>0QP=R

M; >PQT0Q>=R

M; >PQPQQ < SR

M; >PQN0QP>R

M; >PQM0QPSR

M; >PN<0PPNR

M; >PN=0Q<; R

?GHV9! *H1W'BCDD9E9'CF'9GEHG99! HGE\'1@C3?L?Z@A

LAL9! 'LA**

0/762-J'B(. 5\$&"/'*2+"62"'76K'964+6""/+64

M; >PT; '

3 E

M; >PTT'

3

M; >PTP'

B 3 F

M; >PTM'

F

M; >PPS'

В

M; >PPP'

A B

M; >PPN'

Α

M; >PQ='

0 3 F

M; >PQS'

A B

M: >PN: '

F

%2*: ;44< =>?@A?=@BC

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

! "#\$%#! \$&"

"#\$%&'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

=Q



%2*: ;44< =>?@A?=@BC

+DE" 8,7.1,4)1*,-*#\$06;70.;,7<

! "#\$%#! \$&' "#\$%\() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66\(#/#7'809(: -8/,78',;7(<89(=>!?

?>



! "#\$\&'()\'*+,\&-\'*\.\ "#\&\'\'O\'1\"2-\'3\"4\\"*\\$55\\". \"6\&7/8\9,7. +67\&+(6\: 78\;<=>

! ?@AB'C?D3EA'AD*1A1F19'GH'19I EDGJGCK'B9JJGG!

0/762-l': "2-76+27%'964+6""/+64

*9: 9*19! 'M? **

N; 0>>>PQ>RS

N; O>>RPRTRS

N; O >> TPT; OS

N; O>>NPRNRS

N: 0>U<PRTRS

N; O>U; PRNTS

N; O>U>PQ<TS

N; O>URPRTUS

N; O>UQPT; US

N; O>UNPRNOS

N: 0>0>PT=TS

N; O>OQPQONS

N: 0>ONPRN=S

N: 0>RUPRROS

N; O>RRPR; RS

N; O>RQPQR=S

! ?@AB'C?D3EA'AD*1A1F19'GH'19I EDGJGCK'B9JJGG!

M?M9! 'M? * *

0/762-l': "2-76+27%'964+6""/+64

N; 0>>;'

0 3

N; 0 >> 0'

Ε

N; 0>UT'

3 9

N: 0>0T'

? 3 9

N; 0>R<'

0 1

N; 0>R>'

3

%2*: ;44< =>?@A?=@BC +DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

Ţ



! "#\$%\'()\'*+, &-\'*\". "#\\"\'O\'1\"2-\'3\"4\\"\'*\\$55\\". "6\\7\8\9, 7. +67\\+(6\: 78\;<=>

: ?! '?1E?D?*AF*'9DCAD99! ADC'I GJJ9C9'VG1E?: ?DC?J?:

0/762-l': "2-76+27%'964+6""/+64

*9: 9*19! 'M? **

NU <on=pq<ts< th=""><th>NU<on; pqrns<="" th=""><th>NU<on>PQ; NS</on></th><th>NU<onupq>>S</onupq></th><th>NU<onopq=>S</onopq=></th></on;></th></on=pq<ts<>	NU <on; pqrns<="" th=""><th>NU<on>PQ; NS</on></th><th>NU<onupq>>S</onupq></th><th>NU<onopq=>S</onopq=></th></on;>	NU <on>PQ; NS</on>	NU <onupq>>S</onupq>	NU <onopq=>S</onopq=>
NU <r<<pq>TS</r<<pq>	NU <r<opq>OS</r<opq>	NU <r<qpqqrs< th=""><th>NU<r<tpt=>S</r<tpt=></th><th>NU<r=; <s<="" pq;="" th=""></r=;></th></r<qpqqrs<>	NU <r<tpt=>S</r<tpt=>	NU <r=; <s<="" pq;="" th=""></r=;>
NU < R = > PQN = S	NU <r=opq<ts< th=""><th>NU<r=rpq;; s<="" th=""><th>NU < R = QPQ = NS</th><th>NU < R = NPQ < >S</th></r=rpq;;></th></r=opq<ts<>	NU <r=rpq;; s<="" th=""><th>NU < R = QPQ = NS</th><th>NU < R = NPQ < >S</th></r=rpq;;>	NU < R = QPQ = NS	NU < R = NPQ < >S
NU <r; <pquus<="" th=""><th>NU < R; =$PQQ = S$</th><th>NU<r; \$<="" ;="" th="" upt;=""><th>NU<r; th="" tpqu<\$<=""><th>NU<r><pqtrs< th=""></pqtrs<></r></th></r;></th></r;></th></r;>	NU < R; = $PQQ = S$	NU <r; \$<="" ;="" th="" upt;=""><th>NU<r; th="" tpqu<\$<=""><th>NU<r><pqtrs< th=""></pqtrs<></r></th></r;></th></r;>	NU <r; th="" tpqu<\$<=""><th>NU<r><pqtrs< th=""></pqtrs<></r></th></r;>	NU <r><pqtrs< th=""></pqtrs<></r>
NU <r>>PRRNS</r>	NU <r>OPT<=\$</r>	NU <r>QPQOUS</r>	NU <r>NPQ<ns< th=""><th>NU<ru>PQ<<\$</ru></th></ns<></r>	NU <ru>PQ<<\$</ru>
NU <rurpqrrs< td=""><td>NU<ro=pq<; s<="" td=""><td>NU<roupqurs< td=""><td></td><td></td></roupqurs<></td></ro=pq<;></td></rurpqrrs<>	NU <ro=pq<; s<="" td=""><td>NU<roupqurs< td=""><td></td><td></td></roupqurs<></td></ro=pq<;>	NU <roupqurs< td=""><td></td><td></td></roupqurs<>		

%2*: ;44< =>?@A?=@BC

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

! "#\$%#! \$&' "#\$%&'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66&#/#7'809(: -8/,78',; 7(<89(=>!?

=

! "#\$%\'()\'*+, \&-\'*\". \"#\\"\'O\'1\"2-\'3\"4\\"*\\$55\\". \"6\\7\8\9, 7. \+67\\+(6\': 78\'; <=>

: ?! '?1E?D?*AF*'9DCAD99! ADC'I GJJ9C9'VG1E?: ?DC?J?:

M?M9! 'M? * *

0/762-l': "2-76+27%'964+6""/+64

NU<0NR'

3

NU<0NT'

9

NU<R<>'

Н

NU<R<U'

3

NU<R<R'

С

NU<R<N'

? 1

NU<R=='

7 I

NU<R=T'

?

•

NU < R; >'

С

NU<R; R'

Н

NU<R; Q'

Ι

NU<R; N'

? H

NU<R>='

9

NU<RUN'

C

%2*: ;44< =>?@A?=@BC

+DE"
8, 7.1, 4)1*, -*#\$06;70.;, 7<

?



! "#\$%&'()''*+, &-'*". "#&"/'0'1"2-'3"4/""'*\$55%". "6&7/8'9, 7. +67&+(6': 78'; <=>

: ?! '?1E?D?*AF*'9DCAD99! ADC'I GJJ9C9'VG1E?: ?DC?J?:

M?M9! 'M? * *

NU<RO<'

? H

NU<RO; '

0

NU<R00'

H C

%2*: ;44< =>?@A?=@BC

+DE" 8,7.1,4)1*,-*#\$06;70.;,7<

- 1



! "#\$%\'()\'*+, &-\'*\. \"#\\"\'O\'1\"2-\'3\"4\\\\\\\\$55\\\\\. \\\6\87/8\9, 7. \\+67\&+(6\': 78\'; <=>

: ?! '0?*9JAG*'AD*1A1F19'GH'19I EDGJGCK'?D3'*I A9DI 9

0/762-l': "2-76+27%'964+6""/+64

*9: 9*19! 'M?**

N>TNN=PRNUS

N>TNN>PQ; TS

N>TNNOPRNUS

N>TNNTPQ>US

N>N<<<PRNOS

N>N<<>POR>S

N>N<<UPQ>US

N>N<<RPQ=NS

N>N<<QPQOOS

N>N<<TPRNTS

N>N<=; PQ>TS

N>N<=TPQ; =S

N>N<; <PQ>OS

: ?! '0?*9JAG*'AD*1A1F19'GH'19I EDGJGCK'?D3'*I A9DI 9

M?M9! 'M? * *

0/762-l': "2-76+27%'964+6""/+64

N>TNNR'

C

N>TNNN'

 \cap

N>N<<: '

? 0 H

N>N<<N'

Н

N>N<=U'

a

N>N<=0'

0 9

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66&#/#7'809(: -8/,78',; 7(<89(=>!?

M



! "#\$%&'()''*+, &-'*". "#&"/'0'1"2-'3"4/""'*\$55%". "6&7/8'9, 7. +67&+(6': 78'; <=>

?3A'*E?DV?!?'AD*1A1F19'GH'9DCAD99! ADC'?D3'19I EDGJGCK'V?J?3K 0/762-L': "2-76+27%'964+6""/+64

*9: 9*19! 'M?**

N; NTROPQ>; S N; NTRQPRN>S

N; NTRNPQ=; S

N; NTQ=PQ<QS

N: NTOUPO<US

N: NTOOPRO=S

N; NTQRPQQRS

N; NTQQPQTRS

N; NTQNPQOTS

N; NTT<PQ><S

N; NTT; PQQOS

 $N;\,NTT{>}PQTQS$

 $N;\,NTTUPQR{>}S$

N; NTTOPRQ=S

N; NTTRPRNTS

N; NTTQPRROS

N; NTTTPQROS

N; NTTNPQUQS

N; NTN>PRQUS

N; NTNUPRTUS

N; NTNOPRQTS

?3A'*E?DV?!?'AD*1A1F19'GH'9DCAD99! ADC'?D3'19I EDGJGCK'V?J?3K

M?M9! 'M? * *

0/762-l': "2-76+27%'964+6""/+64

N; NTR='

3

N; NTR>'

0

N; NTRU'

3

N; NTRR'

2

N; NTQT'

3

N; NTN; '

? 3

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<



! "#\$%\()\'*+,&-\'\". "#\(\)\'\O\1\"2-\3\"4\\"*\\$55\\". "6\(\)7\8\9,7. +67\(\)+(6\: 78\';<=>

?: ?J'@KG1EA'9DCAD99! ADC"I GJJ9C9'VGGB?MM?JJK'V?D@A! ?M?JJK 0/762-l': "2-76+27%'964+6""/+64

*9: 9*19! 'M?**

N; TOTUPQ; ; S N; TOTRPRTOS N; TOTNPRQ>S N; TON; PRNRS N; TON>PQ=US N; TONUPRNUS N; TONRPRROS N; TONNPQ=NS N; TR<; PQURS N; TR<OPQO; S N; TR<TPQ<QS N; TR=PQ=S N; TR=PQ=S N; TR=PQ=S N; TR=PQ=S

N; TR=OPRN=S N; TR=OPRN<S N; TR; <POR; S

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

" #\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

! "#\$%&'()''*+, &-'*". "#&"/'0'1"2-'3"4/""'*\$55%". "6&7/8'9, 7. +67&+(6': 78'; <=>

?: ?J'@KG1EA'9DCAD99! ADC''I GJJ9C9'VGGB?MM?JJK'V?D@A! ?M?JJK

M?M9! 'M? * *

0/762-l': "2-76+27%'964+6""/+64

N; TOT='

С

N; TOT; '

3

N; TOT>'

3

N; T0T0'

3

N; TOTQ'

0

N; TOTT'

0

N; TON<'

0 3

N; TONT'

?

N; TR<<'

0 9

N; TR<>'

3

N; TR<N'

?

N; TR=R'

O

N; TR=N'

3 H

N: TR: ='

3

%2*: ;44< =>?@A?=@BC

+DE"
8, 7.1, 4)1*, -*#\$06;70.;, 7<

Р



! "#\$%\'()\'*+, &-\'*\". "#\\"\'O\'1\"2-\'3\"4\\"*\\$55\\". "6\\7\8\9, 7. +67\\+(6\': 78\'; <=>

1??!: 9J'9DCAD99! ADC'I GJJ9C9'M9! AD?3F'! ?DDA

0/762-l': "2-76+27%'964+6""/+64

*9: 9*19! 'M? **

N>; R>UPRQ=S N>; R>T

N>; R>TPTR; S

N>; RUOPQ==S

N>; RURPQ>; S

N>; RO=PRT>S

N>; RRRPQ<OS

N>; RRQPQ<>S

N>; RQRPQ<=S

N>; RT>PQU>S

N>; RN<PQO<S

%2*: ;44< =>?@A?=@BC

+DE"
8, 7.1, 4)1*, -*#\$06;70.;, 7<

! "#\$%#! \$&'

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

0



! "#\$%&'()''*+, &-'*". "#&"/'0'1"2-'3"4/""'*\$55%". "6&7/8'9, 7. +67&+(6': 78'; <=>

1??!: 9J'9DCAD99! ADC'I GJJ9C9'M9! AD?3F'! ?DDA

M?M9! 'M?**

0/762-l': "2-76+27%'964+6""/+64

N>; R>=? N>; R>>' 3 E N>: R>0' ? 0 Н N>; R>R' N>; R>N' N>; RU<' ? N>; RU=' Ε N>; RU; ' ? 9 N>; RU>' Н N>; RUQ' ? 0 N>; RUN' 9

> %2*: ;44< =>?@A?=@BC

9

N>; R0>'

N>; ROU'

N>: R00'

F

?

Н

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<



! "#\$%\'()\'*+, &-\'*\. "#&\'\'O\'1\"2-\'3\"4\\"*\\$55\\". "6\\7\8\9, 7. +67\\+(6\: 78\;<=>

1??!: 9J'9DCAD99! ADC'I GJJ9C9'M9! AD?3F'! ?DDA

```
M?M9! 'M? * *
 N>: ROR'
1 9
             Н
 N>; RR<'
?
      Н
N>; RR='
Н
N>; RR; '
0
N>; RR>'
3
      Н
N>; RRU'
      3
             Н
N>; RRO'
?
 N>; RRT'
N>; RQ<'
3
      Н
N>; RQ>'
?
N>; RQU'
?
N>; RQN'
0
 N>: RT<'
0
 N>; RT0'
?
N>: RTR'
       3
```

%2*: ;44<

=>?@A?=@BC

+DE" 8, 7.1, 44)1*, -*#\$06;70.;, 7<



1??!: 9J'9DCAD99! ADC'I GJJ9C9'M9! AD?3F'! ?DDA

M?M9! 'M? * *

N>; RTN'

Ε

N>; RN='

0 3 H

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

!=



H939! ?J'AD*1A1F19'GH'*I A9DI 9'?D3'19I EDGJGCK': GGV?DDF! '?DC?: ?JAO/762-l': "2-76+27%'964+6""/+64

*9. 9*191 'M7**

N>==>=PQU=S

N>==>UPQUNS

N>==>RPRTQS

N>==>QPT<=S

N>==>TPOONS

N>==U=PQOUS

N > = = U; PQUTS

N>==UUPQ: OS

N>==UTPRN<S

H939! ?J'AD*1A1F19'GH'*I A9DI 9'?D3'19I EDGJGCK': GGV?DDF! '

?DC?: ?JA

M?M9! 'M?**

<u>0/762-l': "2-76+27%'964+6""/+64</u>

N>==U<'

C

N>==U>'

9

N>==UR'

Н

N>==UQ'

3

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

!?



! "#\$%\'()\'*+, &-\'*\. \"#\\"\'O\'1\"2-\'3\"4\\\\\\\\\$55\\\\. \"6\\7\8\9, 7. +67\\+(6\: 78\;<=>

AJ?EA?'I GJJ9C9'GH''9DCAD99! ADC'?D3"19I EDGJGCK': FJ?BGG! ' : GGB?11FMFWE?

0/762-1': "2-76+27%'964+6""/+64

*9: 9*19! 'M? **

N>OQR=PQUUS	N>OQR; PQ <rs< th=""><th>N>OQR>PRNRS</th><th>N>OQRQPQ>=S</th><th>N>OQRTPQ=US</th></rs<>	N>OQR>PRNRS	N>OQRQPQ>=S	N>OQRTPQ=US
N>0QQ <pq=us< td=""><td>N>OQQ; PRN; S</td><td>N>OQQUPQUNS</td><td>N>OQQOPQ; OS</td><td>N>OQQQPQU; S</td></pq=us<>	N>OQQ; PRN; S	N>OQQUPQUNS	N>OQQOPQ; OS	N>OQQQPQU; S
N>OQT <prrus< td=""><td>N>OQT=PQ=>S</td><td>N>OQT; PRQNS</td><td>N>OQTUPRNTS</td><td>N>OQTRPRQ<s< td=""></s<></td></prrus<>	N>OQT=PQ=>S	N>OQT; PRQNS	N>OQTUPRNTS	N>OQTRPRQ <s< td=""></s<>
N>OQTTPRUNS	N>OQN; PQ <ns< td=""><td>N>OQNOPQR=S</td><td>N>OQNRPT<ns< td=""><td>N>OT<=PQUNS</td></ns<></td></ns<>	N>OQNOPQR=S	N>OQNRPT <ns< td=""><td>N>OT<=PQUNS</td></ns<>	N>OT<=PQUNS
N>OT<; PQT=S	N>OT<>PQ=TS	N>OT <upq;>S</upq;>	N>OT <opqr; s<="" td=""><td>N>OT<npq<os< td=""></npq<os<></td></opqr;>	N>OT <npq<os< td=""></npq<os<>
N>OT=OPQ;; S	N>OT=QPRNQS	N>OT; =PRR=S		

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%%'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66\#/#7'809(: -8/,78',;7(<89(=>!?

!L



! "#\$\\(\)'\'*+,&-'*". "\(\)\'\'\'\'\'*\\$55\\'\. "6\\(\)\'\\'\\\+67\\(\)\\(\)\'\:\\->

```
AJ?EA?'I GJJ9C9'GH"9DCAD99! ADC'?D3"19I EDGJGCK': FJ?BGG! '
                               : GGB?11FMFWE?
M?M9! 'M? * *
                           0/762-l': "2-76+27%'964+6""/+64
N>0QRO'
0
N>0QQ='
0 3
                 Η
N>000>'
Н
N>000T'
0
N>00T>'
Н
N>00T0'
     Н
N>0QTN'
     0
N>0QN>'
N>0QNU'
?
    Н
N>OQNT'
Η
N>0T=<'
3
N>0T=>'
Н
N>0T=U'
N>0T=R'
    0
           9
                 Н
```

%2*: ;44< =>?@A?=@BC

+DE" 8,7.1,4)1*,-*#\$06;70.;,7<



! "#\$\&'()\"+, \&-\"\" \"#\\"\"\O'1\"2-\3\"4\\"\"*\\$55\\" \"6\87\8\9, 7. +67\&+(6\: 78\; <=>

AJ?EA?'I GJJ9C9'GH"9DCAD99! ADC'?D3"19I EDGJGCK': FJ?BGG! ': GGB?11FMFWE?

M?M9! 'M? * *

N>OT=N'

? 0

N>0T;;'

l

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

İΝ



! "#\$%\\"()\"*+, \&-\"\". "#\\"\'O\1\"2-\3\"4\\"\"*\\$55\\". "6\\7\8\9, 7. +67\\+(6\: 78\; <=>

: ?DC?J?: 'I GJJ9C9'GH'9DCAD99! ADC'911F: ?DGG!

0/762-l': "2-76+27%'964+6""/+64

*9: 9*19! 'M? **

N>T=>UPQORS	N>T=>NPT; <\$	N>T=U>PRT>S	N>T=UUPQ>RS	N>T=UQPQR <s< th=""></s<>
N>T=UNPQN; S	N>T=OOPRT=S	N>T=0QPQ<>S	N>T=RRPQO>S	N>T=RQPQ==S
N>T=RNPQRNS	N>T=Q=PQ; TS	N>T=QQPRQ>S	N>T=T=PQOUS	N>T=T; $PQU=S$
N>T=TUPQ; =S	N>T=TOPRQOS	N>T=TQPQ>OS	N>T=TTPQOQS	N>T=TNPRT; S
N>T=N>PQO>S	N>T=NOPQ<>S	N>T=NRPRTRS	N>T=NTPQ; =S	N>T; < <pqnus< td=""></pqnus<>
N>T; $<>PQ=$				

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?



! "#\$%&'()''*+, &-'*". "#&"/'0'1"2-'3"4/""'*\$55%". "6&7/8'9, 7. +67&+(6': 78'; <=>

: ?DC?J?: 'I GJJ9C9'GH'9DCAD99! ADC'911F: ?DGG!

M?M9! 'M? * *

0/762-l': "2-76+27%'964+6""/+64

N>T=>0'

0

N>T=>Q'

?

N>T=>T'

?

N>T=U='

2

N>T=0;

? H

N>T=0>'

C F

N>T=R<'

3

N>T=R='

1

N>T=RT'

C E

N>T=0<'

0

N>T=Q;'

С

N>T=QR'

F

N>T=QT'

Н

N>T=QN'

3

%2*: ;44< =>?@A?=@BC

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<



! "#\$&"()""*+,&-""" "#&"/"O"1"2-"3"4/"""*\$55%" "G&7/8"9,7. +67&+(6": 78";<=>

: ?DC?J?: 'I GJJ9C9'GH'9DCAD99! ADC'911F: ?DGG!

M?M9! 'M? * *

N>T=T>'

С

N>T=TR'

? 3

N>T=N='

ı

N>T=NQ'

9

%2*: ;44< =>?@A?=@BC

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<



! "#\$&"()""*+,&-""" "#&"/"O"1"2-"3"4/"""*\$55%" "G&7/8"9,7. +67&+(6": 78";<=>

: ?! '0?*9JAF*'I E! A*1A?D'I GJJ9C9'GH'9DCAD99! ADC'?D3'19I EDGJGCK'

M99!: ?39

0/762-1': "2-76+27%'964+6""/+64

*9: 9*19! 'M? **

N; OTT; PQQOS	N; OTTOPRN>S	N; OTTNPQ>=S	N; OTN <pqr=s< th=""><th>N; OTN=PRQUS</th></pqr=s<>	N; OTN=PRQUS
N; OTNRPQRNS	N; OTNQPQORS	N; $ON < < PQN = S$	$N; ON \le PQ \le S$	N; ON<; PRTOS
N; ON<>PQ>NS	N; ON <upt<; s<="" td=""><td>N; ON<rpq<ts< td=""><td>N; ON<qpq; td="" us<=""><td>N; ON<tpto; s<="" td=""></tpto;></td></qpq;></td></rpq<ts<></td></upt<;>	N; ON <rpq<ts< td=""><td>N; ON<qpq; td="" us<=""><td>N; ON<tpto; s<="" td=""></tpto;></td></qpq;></td></rpq<ts<>	N; ON <qpq; td="" us<=""><td>N; ON<tpto; s<="" td=""></tpto;></td></qpq;>	N; ON <tpto; s<="" td=""></tpto;>
N; ON <npt<=s< td=""><td>N; ON==PQTOS</td><td>N; ON=UPQTUS</td><td>N; ON=RPQQ=S</td><td>N; ON=NPQROS</td></npt<=s<>	N; ON==PQTOS	N; ON=UPQTUS	N; ON=RPQQ=S	N; ON=NPQROS
N; ON; >PQ==S	N; ON; OPQO=S	N; ON; RPRTUS		

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

! "#\$\\(\)'\'*+,&-'*". "#\\"/'O'1"2-'3"4/""'*\\$55\\". "6\\(7/8'9,7. +67\\(6': 78';<=>

: ?! '0?*9JAF*'| E! A*1A?D'| GJJ9C9'GH'9DCAD99! ADC'?D3'19| EDGJGCK'

M99!: ?39

M?M9! 'M? * *

0/762-l': "2-76+27%'964+6""/+64

N; OTTR'

3 H

N; OTN; '

Ο

N; OTN>'

3

N; OTNU'

Н

N; OTNO'

0 1

N; OTNT'

0 I 3 H

N; OTNN'

? 0 3

N; ON=; '

3

N; ON=>'

?

N; ON=0'

I 3

N; ON; <'

3

N; ON; ='

7

N; ON; T'

3

N; ON; N'

3

%2*: ;44< =>?@A?=@BC

+DE" 8,7.1,4)1*,-*#\$06;70.;,7<

=!



! "#\$&"()""*+,&-""" "#&"/"O"1"2-"3"4/"""*\$55%" "G&7/8"9,7. +67&+(6": 78";<=>

: F*?JA?! 'I GJJ9C9'GH'9DCAD99! ADC'?D3'19I EDGJGCK'VF: 0?WE?'

<u>M?1E?D?: 1EA11?</u> <u>O/762-l': "2-76+27%'964+6""/+64</u>

*9: 9*19! 'M?**

N>U; =>PQUUS	N>U; =OPT <os< th=""><th>N>U; =RPQ; =S</th><th>N>U; = $NPQU$; S</th><th>N>U;;<pr;ts< th=""></pr;ts<></th></os<>	N>U; =RPQ; =S	N>U; = $NPQU$; S	N>U;; <pr;ts< th=""></pr;ts<>
N>U; ; =PQ; TS	N>U;;;PQONS	N>U; ; $OPQ>=S$	N>U; >>PQ>< S	N>U; >UPRN=S
N>U; >QPQT=S	N>U; UUPRN; S	N>U; UTPRNRS	N>U; $O=PQ=OS$	N>U; O; PQ>US
N>U; O>PQR=S	N>U; OTPRT>S	N>U; ONPQRUS	N>U; ROPRT; \$	N>U; RRPQO; S
N>U; Q <prtus< td=""><td>N>U; Q=PRQ>S</td><td>N>U; Q; PQOOS</td><td>N>U; Q>PTOUS</td><td>N>U; QOPRROS</td></prtus<>	N>U; Q=PRQ>S	N>U; Q; PQOOS	N>U; Q>PTOUS	N>U; QOPRROS

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE" 8,7.1,4)1*,-*#\$06;70.;,7<

" #\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

==



! "#\$%&'()''*+, &-'*". "#&"/'0'1"2-'3"4/""'*\$55%". "6&7/8'9, 7. +67&+(6': 78'; <=>

: F*?JA?! 'I GJJ9C9'GH'9DCAD99! ADC'?D3'19I EDGJGCK'VF: 0?WE?'

M?1E?D?: 1EA11?

M?M9! 'M?**

0/762-l': "2-76+27%'964+6""/+64

N>U; =='

0

N>U; =; '

3 H

N>U: =T'

0 3 H

N>U; ; Q'

?

N>U;; N'

Ε

N>U; >0'

?

N>U; U<'

?

N>U; U='

? H

N>U; U; '

? H

N>U; UR'

3 H

N>U; UN'

O I H

N>U: 0<'

3 H

N>U; 0U'

? H

N>U: R<'

Н

%2*: ;44< =>?@A?=@BC

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

=?



! "#\$%\\"()\"*+, \&-\"\". "#\\"\'O\1\"2-\3\"4\\"\"*\\$55\\". "6\\7\8\9, 7. +67\\+(6\: 78\; <=>

: F*?JA?! 'I GJJ9C9'GH'9DCAD99! ADC'?D3'19I EDGJGCK'VF: 0?WE?' M?1E?D?: 1EA11?

M?M9! 'M? * *

N>U; R; '

Н

N>U; R>'

? H

N>U; RQ'

? I H

N>U; RT'

Н

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?



*I: *'*I EGGJ'GH'9DCCX'Y'19I EDGJGCK'V?! FVF11K

0/762-l': "2-76+27%'964+6""/+64

*9: 9*19! 'M? **

N>UTQ=PRQTS	N>UTQ; PQRRS	N>UTQ>PRT=S	N>UTQUPQ; RS	N>UTQOPQQUS
N>UTQRPQ; OS	N>UTQQPRQ <s< td=""><td>N>UTT<prnns< td=""><td>N>UTT=PQ<>S</td><td>N>UTTOPQQ<s< td=""></s<></td></prnns<></td></s<>	N>UTT <prnns< td=""><td>N>UTT=PQ<>S</td><td>N>UTTOPQQ<s< td=""></s<></td></prnns<>	N>UTT=PQ<>S	N>UTTOPQQ <s< td=""></s<>
N>UTTRPTTUS	N>UTTNPQROS	N>UTN <pqtos< td=""><td>N>UTNUPQNOS</td><td>N>UTNOPTR<s< td=""></s<></td></pqtos<>	N>UTNUPQNOS	N>UTNOPTR <s< td=""></s<>
N>UTNQPQ; OS	N>UTNTPQQTS	N>UTNNPRT=S	N>UN<=PQUOS	N>UN<; PQ=OS
N>UN<>PQU>S	N>UN <opt<os< td=""><td>N>UN=<prnos< td=""><td>N>UN==PQ; US</td><td>N>UN=; PQ<rs< td=""></rs<></td></prnos<></td></opt<os<>	N>UN= <prnos< td=""><td>N>UN==PQ; US</td><td>N>UN=; PQ<rs< td=""></rs<></td></prnos<>	N>UN==PQ; US	N>UN=; PQ <rs< td=""></rs<>
N>UN=>PQRUS	N>UN=UPQ> <s< td=""><td>N>UN; =PR>RS</td><td>N>UN; >PQ; =S</td><td>N>UN; UPRNUS</td></s<>	N>UN; =PR>RS	N>UN; >PQ; =S	N>UN; UPRNUS
N>UN; QPRQ; S	N>UN; TPRN; S	N>UN; NPRQTS	N>UN> <pr>OS</pr>	N>UN>=PQ; OS
N>UN>>PT=US				

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%\\\() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66\\#/#7'809(: -8/,78',;7(<89(=>!?

=M

! "#\$%&'()''*+, &-'*". "#&"/'0'1"2-'3"4/""'*\$55%". "6&7/8'9, 7. +67&+(6': 78'; <=>

*I: *'*I EGGJ'GH'9DCC\"Y'19I EDGJGCK'V?! FVF11K

M?M9! 'M?**

0/762-l': "2-76+27%'964+6""/+64

N>UTTU'

3

N>UTTQ'

Н

N>UTN='

С

N>UN<T'

9

N>UN=0'

? 3

N>UN=N'

Ε

N>UN;<'

Ε

N>UN; 0'

Ε

N>UN; R'

3

N>UN>U'

9

N>UN>0'

?

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE" 8,7.1,4)1*,-*#\$06;70.;,7<



! "#\$\&'()\"*+,&-\"*\". \"#\\"\'O\1\"2-\3\"4\\"\"*\\$55\\". \"6\\7\8\9,7. \+67\\+(6\: 78\;<=>

*! 99'D?! ?K?D?'CF! FVFJ?: 'I GJJ9C9'GH'9DCAD99! ADC'VGJ9DI E9! ! K 0/762-l': "2-76+27%'964+6""/+64

*9: 9*19! 'M?**

N>=PQ;; S	N>=N>; $PQN>S$	N>=N>QPQO>S	N>=NU <pqons< td=""><td>N>=NU>PQQ>S</td></pqons<>	N>=NU>PQQ>S
N>=NUOPRNNS	N>=NUTPRQNS	N>=NO=PQU>S	N>=NO>PQ=RS	N>=NOUPRT=S
N>=NORPRN <s< td=""><td>N>=NOQPQU>S</td><td>N>=NR<pq<os< td=""><td>N>=NROPQO<s< td=""><td>N>=NRRPQ=; S</td></s<></td></pq<os<></td></s<>	N>=NOQPQU>S	N>=NR <pq<os< td=""><td>N>=NROPQO<s< td=""><td>N>=NRRPQ=; S</td></s<></td></pq<os<>	N>=NROPQO <s< td=""><td>N>=NRRPQ=; S</td></s<>	N>=NRRPQ=; S
N>=NRQPQ>=S	N>=NRTPQR; S	N>=NRNPQ<=S	N>=NQ <pro>S</pro>	N>=NQ=PRTQS
N>=NQ; $PQ=N>=NQ>PT<; SN>=NQOPRQNSN>=NQQPRQ=SN>=NT>PQ==S$	N>=NQ>PT<; S	N>=NQOPRQNS	N>=NQQPRQ=S	N>=NT>PQ==S
N>=NTOPQUUS	N>=NTQPQ <rs< td=""><td>N>=NTNPRQTS</td><td></td><td></td></rs<>	N>=NTNPRQTS		

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE" 8,7.1,4)1*,-*#\$06;70.;,7<

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?



*! 99'D?! ?K?D?'CF! FVFJ?: 'I GJJ9C9'GH'9DCAD99! ADC'VGJ9DI E9! ! K

M?M9! 'M?**

0/762-l': "2-76+27%'964+6""/+64

N>=N>T'N>=NU='? N>=NU; ' ? N>=NUO' 0N>=NR=' ? 0 N>=NR: Ω N>=NQU' N>=NT<' I H N>=NT=' 3 N>=NT;'? 0 N>=NTU' 0 N>=NTT' 0 3 N>=NN: ' ? 0

> %2*: ;44< =>?@A?=@BC

N>=NN>'

9

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

=P



! "#\$%\'()\'*+,&-\'\". "#\\"\'O\1\"2-\3\"4\\"*\$55\\". "6\\7\8\9,7. +67\\+(6\: 78\;<=>

?AD1CA1'I GJJ9C9'GH'9DCAD99! ADC'M?1E?: F11G: 'V1: 0/762-L': "2-76+27%'964+6""/+64

*9: 9*19! 'M?**

N>ROT=PQU>S	N>ROT; PQO=S	N>ROTQPQQ>S	N>RON <pq=qs< th=""><th>N>RON=PQO=S</th></pq=qs<>	N>RON=PQO=S
N>RONUPQ>RS	N>RONQPQ=US	N>RONTPQO <s< td=""><td>N>RR<<pqt; s<="" td=""><td>N>RR<=PQQ>S</td></pqt;></td></s<>	N>RR< <pqt; s<="" td=""><td>N>RR<=PQQ>S</td></pqt;>	N>RR<=PQQ>S
N>RR<; PTU; S	N>RR <upt; ns<="" td=""><td>N>RR<opqu=s< td=""><td>N>RR<rpqqts< td=""><td>N>RR<tpq>TS</tpq></td></rpqqts<></td></opqu=s<></td></upt;>	N>RR <opqu=s< td=""><td>N>RR<rpqqts< td=""><td>N>RR<tpq>TS</tpq></td></rpqqts<></td></opqu=s<>	N>RR <rpqqts< td=""><td>N>RR<tpq>TS</tpq></td></rpqqts<>	N>RR <tpq>TS</tpq>
N>RR=; PQONS	N>RR=UPQ; >S	N>RR=RPQ<; S	N>RR=QPRN>S	N>RR=NPRT <s< td=""></s<>
N>RR; OPQ> <s< td=""><td>N>RR; RPTORS</td><td>N>RR; TPQ=NS</td><td>N>RR>OPQTOS</td><td>N>RR>TPQ==\$</td></s<>	N>RR; RPTORS	N>RR; TPQ=NS	N>RR>OPQTOS	N>RR>TPQ==\$
N>RR>NPRNUS	N>RRU=PQ>QS	N>RRU; PQO=S	N>RRU>PQQUS	

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE" 8,7.1,44)1*,-*#\$06;70.;,7<

"#\$%\'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66\#/#7'809(: -8/,78',;7(<89(=>!?



! "#\$%&'()''*+, &-'*". "#&"/'0'1"2-'3"4/""'*\$55%". "6&7/8'9, 7. +67&+(6': 78'; <=>

?AD1CA1'I GJJ9C9'GH'9DCAD99! ADC'M?1E?: F11G: 'V1:

M?M9! 'M?**

0/762-l': "2-76+27%'964+6""/+64

N>ROT>'

Н

N>ROTT'

? H

N>ROTN'

9

N>RON; '

?

N>RONN'

? I E

N>RR<Q'

?

N>RR=>'

Н

N>RR=T'

?

N>RR; <'

?

N>RR; ='

С

N>RR; N'

?

N>RR>='

7

N>RR>; '

H C

N>RR>>'

H C

%2*: ;44< =>?@A?=@BC

+DE"
8, 7.1, 4)1*, -*#\$06;70.;, 7<

! "#\$%#! \$&'

"#\$%&'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

?>



! "#\$%\'()\'*+, &-\'*\. "#&\'\'O\'1\"2-\'3\"4\\"*\\$55\\". "6\\7\8\9, 7. +67\\+(6\: 78\;<=>

?AD1CA1'I GJJ9C9'GH'9DCAD99! ADC'M?1E?: F11G: 'V1:

M?M9! 'M? * *

N>RR>Q'

I

N>RRU<

? 9 H E

%2*: ;44< =>?@A?=@BC

+DE" 8,7.1,4)1*,-*#\$06;70.;,7<

?!



*1'@G*9ME*"I GJJ9C9'GH'9DCAD99! ADC'?D3'19I EDGJGCK'I EGGD3?I E9!! K'

0/762-l': "2-76+27%'964+6""/+64

*9: 9*19! 'M?**

N; QTO; PRQQS

N; QTOOPRN>S

N: QTR<PRROS

N; QTR; PQ; ; S

N: QTRUPQURS

N; QTQ; PRQTS

N; QTQ>PR>TS

N; QTQUPQ<TS

N; QTQTPQUTS

*1'@G*9ME*"I GJJ9C9'GH'9DCAD99! ADC'?D3'19I EDGJGCK'

I EGGD3?I E9!! K'M?J?

M?M9! 'M? * *

<u>0/762-l': "2-76+27%'964+6""/+64</u>

N; QT0='

O 9 H

N; QT0>'

C E

N; QTOU'

? H

N; QTON'

0

N; QTRR'

2

N; QTRN'

?

N; QTQ<'

Ε

N; QTQR'

?

N; QTQQ'

?

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

" #\$%&'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

?=



! "#\$\&'()\'*+,\&-\'*\.\ "#\&\'\'O\'1\"2-\'3\"4\\"*\\$55\\". \"6\&7/8\9,7. \+67\&+(6\: 78\;<=>

BA*Z ?@KG1A'I GJJ9C9'GH'9DCCXY19I EDGJGCK'B?WE?VFJ?:

0/762-L': "2-76+27%'964+6""/+64

*9: 9*19! 'M? **

N>N>0; PQT>S

N>N>0>PT<<S

N>N>R=PR;; S

N>N>RUPQ>US

N>N>ROPTORS

N>N>RRPTR>S

N>N>ROPOORS

N>N>RTPO>TS

N>N>RNPT<OS

N>N>Q<PQ<: S

N>N>Q=PQ=NS

N>N>ORPTORS

BA*Z?@KG1A'I GJJ9C9'GH'9DCCXY19I EDGJGCK'B?WE?VFJ?:

M?M9! 'M? * *

0/762-l': "2-76+27%'964+6""/+64

N>N>0U'

Н

N>N>OT'

? 3

N>N>Q0'

Н

N>N>T='

C

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66&#/#7'809(: -8/,78',; 7(<89(=>!?

??



! "#\$%\'()\'*+, &-\'*\. "#\\"\'O\1\"2-\3\"4\\"*\\$55\\". "6\\7\8\9,7. +67\\+(6\: 78\;<=>

*'D': "AD*1A1F19'GH': ?D?C9: 9D1'?D3'19I EDGJGCK[': ?JA?DV?!? 0/762-L': "2-76+27%'964+6""/+64

*9: 9*19! 'M?**

N>>>; RPRTNS	N>>>>PQ; TS	N>>>>RPQ=>S	N>>>>QPQ <ts< th=""><th>N>>>>NPRNQS</th></ts<>	N>>>>NPRNQS
N>>>U=PQ=; S	N>>>U>PQUUS	N>>>UUPQ>; S	N>>>UOPRNUS	N>>>UTPRTNS
N>>>ORPQ=RS	N>>>OQPQ=>S	N>>>R <prrts< td=""><td>N>>>R; $PQ=NS$</td><td>N>>>RUPT<os< td=""></os<></td></prrts<>	N>>>R; $PQ=NS$	N>>>RUPT <os< td=""></os<>

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

" #\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?



*'D': ''AD*1A1F19'GH': ?D?C9: 9D1'?D3'19| EDGJGCK[': ?JA?DV?!?

M?M9! 'M? * *

0/762-l': "2-76+27%'964+6""/+64

N>>>==' 3 N>>>=; ' 9 N>>>; <' 9 ? 1 N>>>; >' ? 0 N>>>; U' N>>>=' Н N>>>; ' Н N>>>>U' Н 3 N>>>>0' ? N>>>>T' N>>>U<' ? N>>>U: ' N>>>UQ' 9 N>>>UN' 3 9 Н

> +DE" 8,7.1,4)1*,-*#\$06;70.;,7<

! "#\$%#! \$&'

%2*: ;44<

=>?@A?=@BC

"#\$%&'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

?M



! "#\$%&'()''*+, &-'*". "#&"/'0'1"2-'3"4/""'*\$55%". "6&7/8'9, 7. +67&+(6': 78'; <=>

*'D': "AD*1A1F19'GH': ?D?C9: 9D1'?D3'19I EDGJGCK[': ?JA?DV?!?

M?M9! 'M? * *

N>>>0<'

? H

N>>>0>'

?

N>>>0U'

9

N>>>00'

Н

N>>>0T'

9

N>>>0N'

9

N>>>R>'

9

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66&#/#7'809(: -8/,78',; 7(<89(=>!?

?N



! "#\$\\(\)'\'*+,&-'*". "#\\"/'O'1"2-'3"4/""'*\$55\\". "6\\(\)78'9,7. +67\\(\)+(6': 78';<=>

%2*: ;44< =>?@A?=@BC

+DE" 8,7.1,44)1*,-*#\$06;70.;,7<



! ?@AB'C?D3EA'AD*1A1F19'GH'19I EDGJGCK'B9JJGG! 0/762-L'9%''2&/+27%'76M'9%''2&/(6+2#'964+6''''/+64

*9: 9*19! 'N? **

0; PQR>STRUV	0; PQRPSR==V	0; PQRTSRR <v< th=""><th>0; PQROSTOPV</th><th>0; PQU=SU=UV</th></v<>	0; PQROSTOPV	0; PQU=SU=UV
0; PQU; SRO <v< th=""><th>0; $PQU>SR==V$</th><th>0; PQUQSRRTV</th><th>0; PQUPSU<pv< th=""><th>0; PQUTSR<0V</th></pv<></th></v<>	0; $PQU>SR==V$	0; PQUQSRRTV	0; PQUPSU <pv< th=""><th>0; PQUTSR<0V</th></pv<>	0; PQUTSR<0V
0; PQURSRR>V	0; PQUUSTROV	0; PQUOSR>TV	0; PQ0<\$R=0V	0; PQ0=SUTRV
0; PQ0; SRPRV	0; PQORSU>RV	0; PQOUSRRUV	0; PP< <sr=uv< th=""><th>0; PP<=STUUV</th></sr=uv<>	0; PP<=STUUV
0; PP<; \$R <rv< th=""><th>0; PP<>\$RQ<v< th=""><th>0; PP<qsu; rv<="" th=""><th></th><th></th></qsu;></th></v<></th></rv<>	0; PP<>\$RQ <v< th=""><th>0; PP<qsu; rv<="" th=""><th></th><th></th></qsu;></th></v<>	0; PP <qsu; rv<="" th=""><th></th><th></th></qsu;>		

! ?@AB'C?D3EA'AD*1A1F19'GH'19I EDGJGCK'B9JJGG!

N?N9! 'N?**

0/762-1'9%"2&/+27%'76M'9%"2&/(6+2#'964+6""/+64

0; PQR; '

0

0; PQRQ'

0 E

0; PQRU'

Ε

0; PQU<'

? E

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 4)1*, -*#\$06;70.;, 7<

" #\$%\'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66\\#/#7'809(: -8/,78',;7(<89(=>!?

ļ



! "#\$%\'()\'*+, &-\'*\. "#&\"\'O\'1\"2-\'3\"4\\"*\\$55\\". "6\\7\8\9, 7. +67\\4\(6\: 78\; <=>

CGB1WI GJJ9C9'GH'9DCAD99! ADC'N?AD?BF 0/762-L'9%"2&/+27%'76M'9%"2&/(6+2#'964+6""/+64

*9. 9*191 'N?**

0; >; ROSRQOV

0; >; U<\$R; QV

0; >; U>SRP; V

0; >; UQSRQ; V

0; >; UTSU=PV

0; >; 0 < SRU > V

0; >; 0 = SRR = V

0; >; 0; STUPV

0; >; OQSR; QV

0; >; 0PSTT>V

CGB1WI GJJ9C9'GH'9DCAD99! ADC'N?AD?BF

N?N9! 'N?**

<u>0/762-l'9%"2&/+27%'76M'9%"2&/(6+2#'964+6""/+64</u>

0; >; R;'

0

0; >; R>'

I C

0:>: RT'

F

0; >; RU'

?

0; >; U='

? C

0; >; U; '

С

0; >; UP'

9

0; >; 0>'

Ε

0; >; 0R'

9

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%\\'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66\\#/#7'809(: -8/,78',;7(<89(=>!?



! "#\$%\'()\'*+, &-\'*\. \"#\\"\'O\'1\"2-\'3\"4\\\\\\\\$55\\\\\. \\\6\87/8\9, 7. \\+67\&+(6\': 78\'; <=>

! ?@?CA! A'*I EGGJ'GH'9DCAD99! ADC'?D3'19I EDGJGCK O/762-L'9%"2&/+27%'76M'9%"2&/(6+2#'964+6""'/+64

*9: 9*19! 'N?**

0; TPP; STOTV

0; TPP>SR; >V

0; TPPQST0>V

! ?@?CA! A'*I EGGJ'GH'9DCAD99! ADC'?D3'19I EDGJGCK

N?N9! 'N?**

0/762-L'9%"2&/+27%'76M'9%"2&/(6+2#'964+6""/+64

0: TPP='

Ε

0: TPPR'

3

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE" 8,7.1,4)1*,-*#\$06;70.;,7<

"#\$%%'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66%#/#7'809(: -8/,78',;7(<89(=>!?

?



! "#\$%\'()\'*+, &-*\". \"#\\"\'O\1\"2-\3\"4*\\$55\\\". \"6\\7\8\9, 7. \+67\\+(6\: 78\; <=>

: ?! '?1E?D?*AF*'9DCAD99! ADC'I GJJ9C9'XG1E?: ?DC?J?: 0/762-L'9%''2&/+27%'76M'9%''2&/ (6+2#'964+6''''/+64

*9: 9*19! 'N?**

OQ<RT=SRQRV

OQ<RTQSTRRV

00<RR: SRRUV

OQ<RRQSR<OV

00<RRTSTT: V

OQ<RU; SRPRV

00<RUOSRO<V

: ?! '?1E?D?*AF*'9DCAD99! ADC'I GJJ9C9'XG1E?: ?DC?J?:

N?N9! 'N?**

0/762-L'9%"2&/+27%'76M'9%"2&/(6+2#'964+6""/+64

00<RT; '

? 0 E

00<RT>'

Ε

OQ<RTR'

?

OQ<RTU'

C F

0Q<RT0'

C E

00<RR='

9

00<RR>'

3

00<RRR'

C

00<RRU'

?

00<RU='

3

0Q<RU>'

1

%2*: ;44< =>?@A?=@BC +DE"
8, 7.1, 4()1*, -*#\$06;70.;, 7<

L



! "#\$\&'()\'*+,\&-\'*\.\ "#\&\'\'O\'1\"2-\'3\"4\\"*\\$55\\". \"6\&7/8\9,7. \+67\&+(6\: 78\;<=>

@?A'OE?! ?1E'I GJJ9C9'GH': ?D?C9: 9D1'?D3'19I EDGJGCK 0/762-L'9%"2&/+27%'76M'9%"2&/(6+2#'964+6""/+64

*9: 9*19! 'N? **

0><RP; STU>V 0 > < RP > SR = RV

0><RPPSROUV

0><RPRSR<RV

0 > <RT < SR > = V

0 > < RT = SR = RV

0><RTOSR<RV

0 > < RR; SR = PV

0 > < RR > ST0 = V

0><RRPSTOPV

0><RU<ST00V

%2*: ;4< =>?@A?=@BC

! "#\$%#! \$&'

+DE" 8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

! "#\$%&'()''*+, &-'*". "#&"/'0'1"2-'3"4/""'*\$55%". "6&7/8'9, 7. +67&+(6': 78'; <=>

@?A'OE?! ?1E'I GJJ9C9'GH': ?D?C9: 9D1'?D3'19I EDGJGCK

N?N9! 'N?**

0/762-l'9%"2&/+27%'76M'9%"2&/(6+2#'964+6""'/+64

0><RP='

9 H

0><RPQ'

H C

0><RPU'

0 C

0><RT; '

C E

0><RTP'

C E

0><RTT'

3 E

0><RTU'

I E

0><RT0'

I C

0><RR='

? 1

0><RRQ'

C E

0><RRT'

Ε

0><RRR'

0 9

0><RR0'

C

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<



! "#\$%\'()\'*+, &-\'*\. \"#\\"\'O\'1\"2-\'3\"4\\\\\\\\$55\\\\\. \\\6\87/8\9, 7. \\+67\&+(6\': 78\'; <=>

AD3A! ?'C?D3EA'I GJJ9C9'GH'9DCAD99! ADC'HG! 'Y G: 9D 0/762-L'9%"2&/+27%'76M'9%"2&/(6+2#'964+6""/+64

*9: 9*19! 'N?**

00 << 0 = SRU = V

0Q<<0TSR; TV

00<=<<SRR0V

OQ<=<; SU; ; V

00<=<0SR0>V

0Q < = < USR > UV

Q<===SU>QV

AD3A! ?'C?D3EA'I GJJ9C9'GH'9DCAD99! ADC'HG! 'Y G: 9D

N?N9! 'N?**

0/762-L'9%"2&/+27%'76M'9%"2&/(6+2#'964+6""/+64

00<<0>'

F

00<<00'

F

00<<0R'

C

00<<0U'

С

00<=<='

Ε

00<=<P'

Ε

00<=<T'

Ε

00 < = < R'

00<=<0'

? 0

Ε

00<==<' ?

> %2*: ;44< =>?@A?=@BC

+DE" 8, 7.1, 44)1*, -*#\$06;70.;, 7<

! "#\$%#! \$&'

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',:7(<89(=>!?



?3A'*E?DX?!?'AD*1A1F19'GH'9DCAD99! ADC'?D3'19I EDGJGCK'X?J?3K 0/762-L'9%''2&/+27%'76M'9%''2&/(6+2#'964+6''''/+64

*9·9*191 'N7**

0><<<; SR<>V

0><<<>SR=0V

0><<<RSR; TV

0><<<USU: PV

0><<==SRP<V

0 > < = PSRT > V

0><<=0\$RP0V

?3A'*E?DX?!?'AD*1A1F19'GH'9DCAD99! ADC'?D3'19I EDGJGCK'X?J?3K

N?N9! 'N?**

<u>0/762-L'9%"2&/+27%'76M'9%"2&/(6+2#'964+6""/+64</u>

0><<='

ī

0><<<0'

2

0><<=T'

C

0><<; <'

? |

%2*: ;44< =>?@A?=@BC +DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

Р



?: ?J'@KG1EA'9DCAD99! ADC''I GJJ9C9'XGGB?NN?JJK'X?D@A! ?N?JJK 0/762-L'9%''2&/+27%'76M'9%''2&/ (6+2#'964+6''''/+64

*9: 9*19! 'N?**

0; UR>; SRT>V

0; UR>>SRU=V

0; UR>PSRROV

0: UR>RSR=0V

0: UR>OSTQUV

?: ?J'@KG1EA'9DCAD99! ADC''I GJJ9C9'XGGB?NN?JJK'X?D@A! ?N?JJK

N?N9! 'N?**

0/762-L'9%"2&/+27%'76M'9%"2&/(6+2#'964+6""/+64

0; UR>='

? 0

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<



1??!: 9J'9DCAD99! ADC'I GJJ9C9'N9! AD?3F'! ?DDA 0/762-L'9%''2&/+27%'76M'9%''2&/(6+2#'964+6''''/+64

*9: 9*19! 'N?**

0>; U<; SR<<V

0>; U<>SRUTV

0>; U<RSR<=V

0>; U==SR=TV

0>; U=; STTOV

0>; U=PSRQ; V

0>; U; USTT<V

0>; U>=SRP<V

0>; U>; STU0V

0>; U>>SRPOV

0>; U>USRU=V

0>; U>0SR0>V

0>; UQPSR>TV

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() $^*((+,-',(+\#/\#\$'\#0(1(2\#3,(4\#50\#\#(+\%66\&\#/\#7'809(:-8/,78',;7(<89(=>!?)))))))$

!>



! "#\$\\(\)'\'*+,&-'*". "#\\"/'O'1"2-'3"4/""'*\\$55\\". "6\\(7/8'9,7. +67\\(6': 78';<=>

1??!: 9J'9DCAD99! ADC'I GJJ9C9'N9! AD?3F'! ?DDA

N?N9! 'N?**

<u>0/762-l'9%"2&/+27%'76M'9%"2&/(6+2#'964+6""/+64</u>

0>; U<P'
3
0>; U<U'
C
0>; U<0'
3
0>; U=<'
?

0>; U<='

0

0>; U=T'

O I 3 0>; U=R'

ОН

0>; U=0'

l

0>; U; Q'

? C E

0

0>; U; 0'

0>: U: P'

0 I

0>; U><'

3

0>: U>T'

? C

%2*: ;44< =>?@A?=@BC

+DE" 8, 7.1, 44)1*, -*#\$06;70.;, 7<



! "#\$\&'()\"+,&-\"\" \"#\\"\'O\1\"2-\3\"4\\"\"*\\$55\\" \"6\\7\8\9,7\\ +67\\+(6\: 78\;<=>

1??!: 9J'9DCAD99! ADC'I GJJ9C9'N9! AD?3F'! ?DDA

N?N9! 'N?**

0>; UQ='

9

0>; UQ; '

?

0>; UQ>'

? 3

0>; UQR'

С

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<



! "#\$%\(')''*+, &-'*". "#&"/'0'1"2-'3"4/""'*\$55%". "6&7/8'9, 7. +67&+(6': 78'; <=>

H939! ?J'AD*1A1F19'GH'*I A9DI 9'?D3'19I EDGJGCK': GGX?DDF! '?DC?: ?JA O/762-L'9%''2&/+27%'76M'9%''2&/(6+2#'964+6''''/+64

*9· 9*19I 'N?**

0 >=; P; SRRQV

0 > = : P > SR : = V

0>=; PPSR=PV

0 >=; T; STURV

0>=; T>\$R=UV

0 >=; TQSRT; V

0>=: TPSRRTV

0>=; TUSUUPV

0 >= : R < SRQ = V

0 >= : R = SR > TV

0>=; R; STRRV

H939! ?J'AD*1A1F19'GH'*I A9DI 9'?D3'19I EDGJGCK': GGX?DDF! '

?DC?: ?JA

N?N9! 'N?**

0/762-L'9%"2&/+27%'76M'9%"2&/(6+2#'964+6""/+64

0>=: P='

C E

0>=; PQ'

3 E

0>=; PR'

? E

0>=: P0'

Ε

0 >= : T0'

I

%2*: ;44< =>?@A?=@BC +DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<



AJ?EA?'I GJJ9C9'GH"9DCAD99! ADC'?D3"19I EDGJGCK': FJ?BGG! ' : GGB?11FNFZE?

0/762-L'9%"2&/+27%'76M'9%"2&/(6+2#'964+6""/+64

*9: 9*19! 'N?**

0>POTOSR; <V

AJ?EA?'I GJJ9C9'GH"9DCAD99! ADC'?D3"19I EDGJGCK': FJ?BGG! '

: GGB?11FNFZE?

N?N9! 'N?**

<u>O/762-L'9%"2&/+27%'76M'9%"2&/(6+2#'964+6""/+64</u>

0>P00>'

Ε

0>P00P'

Η

0>POPR'

Ε

0>P0TQ'

? E

0>POTU'

C

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&"

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

١L

! "#\$%\'()\'*+, &-\'*\. "#&\'\'O\'1\"2-\'3\"4\\"*\\$55\\". "6\\7\8\9, 7. +67\\+(6\: 78\;<=>

X: 9?'9DCAD99! ADCWI GJJ9C9'93?1E?J?'?JFB? 0/762-L'9%''2&/+27%'76M'9%''2&/ (6+2#'964+6''''/+64

*9: 9*19! 'N?**

0>RQQQSRRTV	0>RQQPSU <qv< th=""><th>0>RQQRSRPUV</th><th>O>RQQOSR; >V</th><th>0>RQPRSUQ<v< th=""></v<></th></qv<>	0>RQQRSRPUV	O>RQQOSR; >V	0>RQPRSUQ <v< th=""></v<>
	X: 9?'9DCAD9'	9! ADCWI GJJ9C9	'93?1E?J?'?JFE	3?
N?N9! 'N?*	<u>*</u> <u>O/762-l'9</u>	%''2&/+27%'76M'9%''2&/	(6+2#'964+6""/+64	
0>RQQ=' E 0>RQP<' E 0>RQP=' ? 0>RQP;' ? C E 0>RQP>' ? 0>RQPO' C 0>RQPU' C 0>RQPU' C 0>RQPU' ? 0>RQPO' ?				
0>RQT=' C E				

%2*: ;44< =>?@A?=@BC

+DE" 8,7.1,4)1*,-*#\$06;70.;,7<

! "#\$%#! \$&' "#\$%&'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66&#/#7'809(: -8/,78',; 7(<89(=>!?



! "#\$%\'()\'*+, &-\'*\". "#\\"\'O\'1\"2-\'3\"4\\"\'*\\$55\\". "6\\7\8\9, 7. +67\\+(6\: 78\;<=>

: ?DC?J?: 'I GJJ9C9'GH'9DCAD99! ADC'911F: ?DGG! 0/762-L'9%"2&/+27%'76M'9%"2&/ (6+2#'964+6""/+64

*9: 9*19! 'N?**

0>U>=RSRT <v< th=""><th>0>U>=USR<>V</th><th>0>U>=0SR$0>V$</th><th>0>U>; =SR<pv< th=""><th>O>U>; TSRQOV</th></pv<></th></v<>	0>U>=USR<>V	0>U>=0SR $0>V$	0>U>; =SR <pv< th=""><th>O>U>; TSRQOV</th></pv<>	O>U>; TSRQOV
0>U>; USRTPV	0>U>>PSTR; V	0>U>>USTURV	0>U>Q; \$R<; V	O>U>QQSR> <v< td=""></v<>
0>U>QT\$R==V	0>U>QRSR <rv< td=""><td>0>U>P=SRQTV</td><td>0>U>P0\$T0<v< td=""><td>0>U>T<\$TTUV</td></v<></td></rv<>	0>U>P=SRQTV	0>U>P0\$T0 <v< td=""><td>0>U>T<\$TTUV</td></v<>	0>U>T<\$TTUV

0>U>TQSR; QV

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE" 8, 7.1, 44)1*, -*#\$06;70.;, 7<

" #\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

İΝ



! "#\$%&'()''*+, &-'*". "#&"/'0'1"2-'3"4/""'*\$55%". "6&7/8'9, 7. +67&+(6': 78'; <=>

: ?DC?J?: 'I GJJ9C9'GH'9DCAD99! ADC'911F: ?DGG!

N?N9! 'N?**

O/762-L'9%"2&/+27%'76M'9%"2&/(6+2#'964+6""/+64

0>U>==' Ε 0>U>=; ' 3 0>U>=0' Ε 0>U>=T'C E 0>U>;;' Ε 0>U>; >' 3 H 0>U>; Q' I 3 0>U>><' 0 C 0>U>>=' ? E 0>U>>; ' 0>U>>0' 0 0>U>QU' ? C 0>U>00' 3 C

> %2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

0>U>P: '

?

+DE" 8,7.1,4)1*,-*#\$06;70.;,7<



 $! "\#\$\%'()"^*+,\&-'^*". "\#\&"/'O'1"2-'3"4/""'^*\$55\%". "6\&7/8'9,7. +67\&+(6': 78';<=>$

: ?DC?J?: 'I GJJ9C9'GH'9DCAD99! ADC'911F: ?DGG!

N?N9! 'N?**

0>U>PP'

Ε

0>U>PT'

C E

0>U>PR'

0 E

0>U>T='

Ε

0>U>T; '

Ε

0>U>TP'

ı

0>U>TU'

?

0>U>T0'

2 I

%2*: ;44< =>?@A?=@BC +DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<



! "#\$%&'()''*+, &-'*". "#&"/'0'1"2-'3"4/""'*\$55%". "6&7/8'9, 7. +67&+(6': 78'; <=>

: ?! '0?*9JAF*'| E! A*1A?D'| GJJ9C9'GH'9DCAD99! ADC'?D3'19| EDGJGCK' N99! : ?39

O/762-L'9%"2&/+27%76M'9%"2&/(6+2#'964+6""'/+64

*9: 9*19! 'N?**

0; T < Q > SO < >V

0; T<QQSTPQV

0: T<QRSR>PV

0; T<P<SU; UV

0; T<P; SRU<V

0; T<P>\$TU>V

0; T<PUSTUTV

0; T<P0SR<>V

0; T < T = SR = OV

0; T<T; SRR>V

0; T<TTSR; OV

0; T<TRSR<; V

: ?! '0?*9JAF*'| E! A*1A?D'| GJJ9C9'GH'9DCAD99! ADC'?D3'19| EDGJGCK'

N99!: ?39

N?N9! 'N?**

<u>O/762-L'9%"2&/+27%'76M'9%"2&/(6+2#'964+6""'/+64</u>

0; T<Q='

Ε

0; T<0; '

1

0; T<QU'

3

0; T<PR'

? 0 C

0; T<T<'

?

0; T<T>'

0

0; T<TQ'

C E

0; T<TP'

3

%2*: ;44< =>?@A?=@BC +DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

İΟ



! "#\$%\'()\'*+, &-\'*\. "#\\"\'O\1\"2-\3\"4\\"\\\\\\\$55\\". "6\\7\8\9, 7. +67\\+(6\: 78\;<=>

: F*?JA?! 'I GJJ9C9'GH'9DCAD99! ADC'?D3'19I EDGJGCK'XF: 0?ZE?' N?1E?D?: 1EA11?

0/762-L'9%"2&/+27%'76M'9%"2&/(6+2#'964+6""'/+64

*9: 9*19! 'N?**

0>Q>U=STORV	0>Q>U; STR>V	0>Q>URSR>QV	0>Q>UOSTUOV	0>Q>0; STRUV
0>Q>ORSRU <v< td=""><td>0>00<=SR<pv< td=""><td>0>00<>ST>RV</td><td>0>QQ<osuqpv< td=""><td>0>QQ==SR=QV</td></osuqpv<></td></pv<></td></v<>	0>00<=SR <pv< td=""><td>0>00<>ST>RV</td><td>0>QQ<osuqpv< td=""><td>0>QQ==SR=QV</td></osuqpv<></td></pv<>	0>00<>ST>RV	0>QQ <osuqpv< td=""><td>0>QQ==SR=QV</td></osuqpv<>	0>QQ==SR=QV
0>QQ=; STPQV	0>QQ=>SRR; V	0>QQ=PSR=; V	O>QQ=USRRQV	0>QQ=OSTOUV

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

" #\$%\'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66\#/#7'809(: -8/,78',;7(<89(=>!?



! "#\$%\'()\'*+, \&-\'*\". \"#\\"\'O\'1\"2-\'3\"4\\"*\\$55\\". \"6\\7\8\9, 7. \+67\\+(6\': 78\'; <=>

: F*?JA?! 'I GJJ9C9'GH'9DCAD99! ADC'?D3'19I EDGJGCK'XF: 0?ZE?' N?1E?D?: 1EA11?

N?N9! 'N?**

<u>0/762-l'9%"2&/+27%76M'9%"2&/(6+2#'964+6""/+64</u>

```
0>0>UT'
Ε
0>0>00'
Ε
0 > 0 > 0 P'
     Н
0>Q>0U'
0 3
0>0>00'
C E
0>00<P'
     3
0>QQ<R'
C E
0>00=<
С
0>00=0
Ε
0>00=T'
0>00; Q'
? C
0>00: T'
? 1
           Н
                 C
                       F
0>00: R'
```

%2*: ;44< =>?@A?=@BC

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

=!



! "#\$%\'()\'*+, &-\'*\. "#&\"\'O\'1\"2-\'3\"4\\\\\\\\$55\\\\. \\\"6\\7\8\9, 7. \\\+67\\\+(6\': 78\'; <=>

*I: *'*I EGGJ'GH'9DCCW['19I EDGJGCK'X?! FXF11K O/762-L'9%''2&/+27%'76M'9%''2&/(6+2#'964+6"''/+64

*9: 9*19! 'N?**

0>P<Q=SR=TV

0>P<Q>STT; V

0>P<QPSUR<V

0>P<0RSRURV

0>P<00SRP>V

0>P<P<SR><V

0>P<P=SR<PV

0>P<PPSRP>V

0>P<PTSR00V

0>P<T<SR=<V

*I: *'*I EGGJ'GH'9DCCW['19I EDGJGCK'X?! FXF11K

N?N9! 'N?**

<u>O/762-L'9%"2&/+27%'76M'9%"2&/(6+2#'964+6""/+64</u>

0>P<0: '

F

0>P<QQ'

?

0>P<P: '

?

0>P<P0'

H E

0>P<PR'

C

0>P<P0'

Ε

0>P<T0'

0

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?



*! 99'D?! ?K?D?'CF! FXFJ?: 'I GJJ9C9'GH'9DCAD99! ADC'XGJ9DI E9! ! K 0/762-L'9%"2&/+27%'76M'9%"2&/(6+2#'964+6""/+64

*9·9*191'N2**

0>; =<=SR>=V

0>; ==; STROV

*! 99'D?! ?K?D?'CF! FXFJ?: 'I GJJ9C9'GH'9DCAD99! ADC'XGJ9DI E9! ! K

N?N9! 'N?**

0/762-L'9%"2&/+27%'76M'9%"2&/(6+2#'964+6""/+64

0>; =<0'

F

0>:=<P'

C

0>; ==<'

? 0

0>; ==>'

3 C Ε 0

0>; ==0'

Ε

0>; ==P'

0

%2*: ;44< =>?@A?=@BC

+DE" 8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%%'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66%#/#7'809(: -8/,78',;7(<89(=>!? ! "#\$%#! \$&'



! "#\$%&'()''*+, &-'*". "#&"/'0'1"2-'3"4/""'*\$55%". "6&7/8'9, 7. +67&+(6': 78'; <=>

?AD1CA1'I GJJ9C9'GH'9DCAD99! ADC'N?1E?: F11G: 'X1: 0/762-L'9%"2&/+27%'76M'9%"2&/ (6+2#'964+6""/+64

*9: 9*19! 'N?**

0>TRP; SR<RV

0>TRPPSRTUV

0>TRPRSRT=V

0>TRPUSR>UV

0>TRT<SROTV

O>TRTQSTRTV

0>TRTRSR>: V

0>TRR<STPOV

0>TRR=STOUV

0>TRR; SR; >V

?AD1CA1'I GJJ9C9'GH'9DCAD99! ADC'N?1E?: F11G: 'X1:

N?N9! 'N?**

0/762-L'9%"2&/+27%'76M'9%"2&/(6+2#'964+6""/+64

0>TRP>'

? I C

0>TRPQ'

C

0>TRP0'

3

0>TRT>'

2

0>TRTT'

0

0>TRTU'

?

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

=L

*1'@G*9NE*''I GJJ9C9'GH'9DCAD99! ADC'?D3'19I EDGJGCK'I EGGD3?I E9!! K' N?J?

0/762-L'9%"2&/+27%76M'9%"2&/(6+2#'964+6""/+64

*9: 9*19! 'N?**

0; ROU>STOUV

0; ROUQSR<TV

0; ROUPSR>RV

0: ROURSU<0V

0: ROUOSTR<V

0; ROOTSU=QV

0; U<<<STR; V

*1'@G*9NE*''I GJJ9C9'GH'9DCAD99! ADC'?D3'19I EDGJGCK'

I EGGD3?I E9!! K'N?J?

N?N9! 'N?**

0/762-l'9%"2&/+27%'76M'9%"2&/(6+2#'964+6""/+64

0: ROU='

ī

0; ROU; '

0 3

0; R00; '

C

0; R00>'

0 I 3 E

0; R000'

3

0; ROOR'

1 3

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%\'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66\\#/#7'809(: -8/,78',;7(<89(=>!?

=M



! "#\$%\'()\'*+, &-*\\. \\"\\'0\1\\\2-\3\\4\\\\\\\$55\\\\. \\\6\87/8\9, 7. \\+67\&+(6\: 78\; <=>

BA*Y ?@KG1A'I GJJ9C9'GH'9DCCW[19I EDGJGCK'B?ZE?XFJ?: 0/762-L'9%''2&/+27%'76M'9%''2&/ (6+2#'964+6''''/+64

*9: 9*19! 'N?**

0>0Q0; SR<0V

0>0Q0>STQUV

V>0720000<0

0>0Q0TSR:: V

0>000RSTRPV

0>0P<TSR; < V

BA*Y?@KG1A'I GJJ9C9'GH'9DCCW[19I EDGJGCK'B?ZE?XFJ?:

N?N9! 'N?**

0/762-L'9%"2&/+27%'76M'9%"2&/(6+2#'964+6""/+64

0>0000'

C

0>0P<; '

3

0>0P<0'

Ε

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%%'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66\#/#7'809(: -8/,78',;7(<89(=>!?

=N



! "#\$%\'()\'*+, &-\'*\. \"#\\"\'O\'1\"2-\'3\"4\\\\\\\\$55\\\\\. \\\6\87/8\9, 7. \\+67\&+(6\': 78\'; <=>

*'D': "AD*1A1F19'GH': ?D?C9: 9D1'?D3'19LEDGJGCK\': ?JA?DX?!? 0/762-L'9%''2&/+27%'76M'9%''2&/(6+2#'964+6'''/+64

*9: 9*19! 'N?**

0>>QR=SR<TV

0>>QRQSTPRV

0>>QU>SR=; V

0>>QUPST>UV

0>>OURSRR<V

0>>QUOSTUOV

0>>QO; STTQV

0>>QOUSRTUV

0>>Q00STPRV

0>>P<; SRROV

*'D': "AD*1A1F19'GH': ?D?C9: 9D1'?D3'19| EDGJGCK\': ?JA?DX?!?

N?N9! 'N?**

<u>0/762-L'9%"2&/+27%'76M'9%"2&/(6+2#'964+6""/+64</u>

0>>QR: '

0

0>>QRP'

3

0>>QR0'

3

0>>QU='

3 H

0>>QUQ'

0

0>>00<

L

0>>Q0P'

0

0>>P<<'

0

0>>P<T'

٠

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

" #\$%\'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66\#/#7'809(: -8/,78',;7(<89(=>!?

=0



FDAB9! *A1K'I GJJ9C9'GH'9DCAD99! ADC\'1EG3FNFZE? 0/762-L'9%"2\%/+27\%76M'9\\"2\%/(6+2\#'964+6\"\"/+64

*9: 9*19! 'N?**

0; >R0; STR; V

0; >ROPSR; >V

0; >RORSR; ; V

0; >ROUSR>; V

0; >R00SR; 0V

0; >U <= SRQRV

0; >U<USRROV

0; >U<0ST00V

0; >U=USTR; V

0; >U; RSR<PV

0; >U; USTRTV

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE" 8,7.1,4)1*,-*#\$06;70.;,7<

" #\$%&'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

=P



! "#\$\\(\)'\'*+,&-'*". "#\\"/'O'1"2-'3"4/""'*\\$55\\". "6\\(7/8'9,7. +67\\(6': 78';<=>

FDAB9! *A1K'I GJJ9C9'GH'9DCAD99! ADC\'1EG3FNFZE?

N?N9! 'N?**

<u>0/762-l'9%"2&/+27%'76M'9%"2&/(6+2#'964+6""/+64</u>

0; >R0>'O 9 0; > R00'С 0: >R0T' Τ 0; >U<<' 3 0; >U<; ' 0 0:>U<>' С 0;>U<T'? 1 0; >U==' 0 0;>U=;'? 0; >U=Q'? 1 0: >U=P' ? 1 0: >U=T' I C 0;>U=R'3 F 0 1 0: >U=0' ? 0 %2*: ;44<

+DE" 8, 7.1, 44)1*, -*#\$06;70.;, 7<

=>?@A?=@BC ! ''#\$%#! \$&'

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

=0



! "#\$\&'()\"+, \&-\"\" \"#\\"\"\O'1\"2-\3\"4\\"\"*\\$55\\" \"6\87\8\9, 7. +67\&+(6\: 78\; <=>

FDAB9! *A1K'I GJJ9C9'GH'9DCAD99! ADC\'1EG3FNFZE?

N?N9! 'N?**

0; >U; >'

0

0; >U; Q'

9

0; >U; T'

0

0; >U; 0'

0

0; >U><'

? 9

%2*: ;44< =>?@A?=@BC

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<



! "#\$\\(\)'\'*+,&-'*". "#\\"/'O'1"2-'3"4/""'*\$55\\". "6\\(\)78'9,7. +67\\(\)+(6': 78';<=>

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE" 8,7.1,44)1*,-*#\$06;70.;,7<

" #\$%\\'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66\\#/#7'809(: -8/,78',;7(<89(=>!?

?!



! "#\$%\'()\'*+,&-\'\". "#\\"\'O\1\"2-\3\"4\\"*\$55\\". "6\\7\8\9,7. +67\\+(6\: 78\;<=>

?@AB9! *A1C'DEFF9G9'EH'9@GA@99! A@GI'1JE3?K?LJM O/762-N'K (%8. "/'964+6""/+64

*9: 9*19! 'KM**

@+%

KMK9! 'KM**

0/762-N'K(%8. "/'964+6""/+64

@+%

%2*: ;44< =>?@A?=@BC

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

Ţ



*DJ EEF'EH'19DJ @EFEGC'M@3'MKKFA93'*DA9@D9*I'K?FFM! AO?@@?'O1: 0/762-\\K(\%8.\\\'/\964+6\\\\'/+64

*9: 9*19! 'KM**

P; P<QQRSTQU

P; P<T<RVWPU

P: P<T=RSVPU

P: P<TWRTP>U

*DJ EEF'EH'19DJ @EFEGC'M@3'MKKFA93'*DA9@D9*I'K?FFM! AO?@@?'O1:

KMK9! 'KM**

O/762-N'K(%8. "/'964+6""/+64

P; P<Q; '

Μ

P; P<Q>'

9

P; P<QW'

D

P; P<T>'

9

P; P<TV'

9

%2*: ;44< =>?@A?=@BC

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

.....



%2*: ;44< =>?@A?=@BC

+DE" 8,7.1,4)1*,-*#\$06;70.;,7<



*! 99'0?33@A'BCDD9E9'CF'9GEHG99! HGE'FC! 'I C: 9G 0/762-J'A55\;"K'9\"2\!/(6+2\;"76K'H6\;"\!\\."6\!7\!\.(6

*9: 9*19! 'LA**

M: MNM=0P <= 0

M: MNM>0RSNQ

M; MNMN0SMTQ

M; MNMTOR<TQ

M: MNMS0R=R0

M: MNMR0SMM0

M: MT<<0RSM0

M: MT<=0RMTQ

M; MT<; ORPRQ

M; MT <> 0R; < 0

M; MT<NORTRQ

M; MT<T0PM; Q

M; MT<S0PN>Q

*! 99'0?33@A'BCDD9E9'CF'9GEHG99! HGE'FC! 'I C: 9G

LAL9! 'LA**

O/762-J'A55%"K'9%"2&/(6+2#'76K'H6#&/\$. "6&7&+(6

M; MNM; '

Α

M; MNMM'

9

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

!



! "#\$%\'()\'*+, &-\'*\. "#&\'\'O\'1\"2-\'3\"4\\"*\\$55\\". "6\\7\8\9, 7. +67\\+(6\: 78\;<=>

! AUAEH! H'*B@CCD'CF'9GEHG99! HGE'AG3'19B@GCDCEV 0/762-J'A55\"K'9\"2\\(6+2\)#'76K'H6\\\\$. "6\\7\\\+(6

*9: 9*19! 'LA**

M; SSST0PT<0

M; SSSS0R=PQ

! AUAEH! H'*B@CCD'CF'9GEHG99! HGE'AG3'19B@GCDCEV

LAL9! 'LA**

O/762-J'A55%"K'9%"2&/(6+2#'76K'H6#&/\$. "6&7&+(6

M; SSS; '

В

%2*: ;44< =>?@A?=@BC

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

@; /6,&#A(%\$,75('.#(! "#\$%#&' (\$;*'B80#(A#C#&;6#A(87A(/8,7'8,7#A(D9(' ()*+,-./01)*2)3)4,56)7.*')06
*8'(8#' #9EF80##G\$.8(1.8C87E(<8.8'/8(H87A.,(I 7,C#0\$,'9(J;''898/K



! "#\$%\'()\'*+, &-\'*\. "#&\"\'O\'1\"2-\'3\"4\\\\\\\\$55\\\\. \\\"6\\7\8\9, 7. \\\+67\\\+(6\': 78\'; <=>

*9: 9*19! 'LA**

M><=>=0RN>0

M><=>; 0STMQ

M><=>N0RN=0

M><=N<0RRMQ

M > <= NS0P == 0

M><=NR0RTR0

M><=T<0SRP0

M><=T=0SS=0

A3H'*@AGWA! A'HG*1H1?19'CF'9GEHG99! HGE'AG3'19B@GCDCEV'WADA3V

LAL9! 'LA**

O/762-J'A55%"K'9%"2&/(6+2#'76K'H6#&/\$. "6&7&+(6

M><=>P'

F

M><=NM'

F

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&"

+DE"
8, 7.1, 4()1*, -*#\$06;70.;, 7<

"#\$%%'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

?



: A! 'OA*9DH?*'B@! H*1HAG'BCDD9E9'CF'9GEHG99! HGE'AG3'19B@GCDCEV' L99!: A39

O/762-J'A55%"K'9%"2&/(6+2#'76K'H6#&/\$. "6&7&+(6

*9: 9*19! 'LA**

 $\label{eq:main_series} \mbox{M}; \ \mbox{S=RS0P} <= \mbox{Q} \qquad \mbox{M}; \ \mbox{S=RR0R} >; \mbox{Q} \qquad \mbox{M}; \ \mbox{S=RP0PNTQ} \qquad \mbox{M}; \ \mbox{S=RM0SSSQ}$

 $\label{eq:main_self_model} \mbox{M}; \mbox{ $S=P$<0P$<=0 } \mbox{M}; \mbox{ $S=P$<0RSM0 } \mbox{M}; \mbox{ $S=MNOSMR0 } \mbox{M}; \mbox{ $S=MTOP$=R0 } \mbox{ $S=MTOP$=R0 } \m$

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

1

! "#\$%&'()''*+, &-'*". "#&"/'0'1"2-'3"4/""'*\$55%". "6&7/8'9, 7. +67&+(6': 78'; <=>

: A! 'OA*9DH?*'B@! H*1HAG'BCDD9E9'CF'9GEHG99! HGE'AG3'19B@GCDCEV'

L99!: A39

LAL9! 'LA**

O/762-J'A55%"K'9%"2&/(6+2#'76K'H6#&/\$. "6&7&+(6

M; S=R>'

F

M; S=RN'

В

M; S=RT'

3

M; S=P='

Ε

M; S=PN'

A E

M; S=PP'

9 E

M; S=PM'

Ε

M: S=M='

0

M; S=M>'

B 9

M; S=MS'

A 0 E

M: S=MM'

A E

%2*: ;44< =>?@A?=@BC

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<



! "#\$%&'()''*+,&-'*". "#&"/'0'1"2-'3"4/""'*\$55%". "6&7/8'9,7. +67&+(6': 78';<=>

: C?G1'XHCG'BCDD9E9'CF'9GEHG99! HGE'WA3A: : AGH11A O/762-J'A55\%"K'9\"2\%/(6+2\#'76K'H6\#\%\\$. "6\\7\\%\+(6

*9: 9*19! 'LA**

M; NTTTORR<0	M; NTS; OSS; Q	M; NTS>0P>; Q	M; NTSP0RM=Q	M; NTR; 0SSS0
M; NTR>0RNRQ	M; NTRNOR <pq< th=""><th>M; NTRTORP>Q</th><th>M; NTRROR=SQ</th><th>M; NTRP0SMR0</th></pq<>	M; NTRTORP>Q	M; NTRROR=SQ	M; NTRP0SMR0
M; NTP<0SR<0	M; NTP=0SMTQ	M; NTP; 0SMMQ	M; NTPN0P<=0	M; NTPT0P<<0
M; NTPP0P <r0< th=""><th>M; NTPMORTTQ</th><th>M; NTM<0STRQ</th><th>M; NTM>0SPNQ</th><th>M; NTMNOR; =Q</th></r0<>	M; NTPMORTTQ	M; NTM<0STRQ	M; NTM>0SPNQ	M; NTMNOR; =Q
M; NTMROR <sq< th=""><th>M: NS <= 0P >= 0</th><th>M; NS<; ORNTQ</th><th>M; NS<>0RR<q< th=""><th>M; NS<nor><q< th=""></q<></nor></th></q<></th></sq<>	M: NS <= 0P >= 0	M; NS<; ORNTQ	M; NS<>0RR <q< th=""><th>M; NS<nor><q< th=""></q<></nor></th></q<>	M; NS <nor><q< th=""></q<></nor>

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

N

! "#\$\\(\)'\'*+,&-'*". "#\\"/'O'1"2-'3"4/""'*\\$55\\". "6\\(7/8'9,7. +67\\(6': 78';<=>

: C?G1'XHCG'BCDD9E9'CF'9GEHG99! HGE'WA3A: : AGH11A

LAL9! 'LA**

O/762-J'A55%"K'9%"2&/(6+2#'76K'H6#&/\$. "6&7&+(6

M; NTT='

9

M; NTT; '

Ε

M: NTTN'

A E

M; NTTS'

Α

M; NTS<'

Α

M: NTST'

9 E

M; NTSR'

Ε

M; NTRM'

В

M; NTPR'

Ε

M; NTM='

Ε

M; NTM; '

Ε

M; NTMT'

В

M; NTMP'

F

M: NTMM'

Ε

%2*: ;44< =>?@A?=@BC

+DE" 8,7.1,4)1*,-*#\$06;70.;,7<

0



 $! "\#\$\%'()"^*+,\&-'^*". "\#\&"/'O'1"2-'3"4/""'^*\$55\%". "6\&7/8'9,7. +67\&+(6': 78';<=>$

: C?G1'XHCG'BCDD9E9'CF'9GEHG99! HGE'WA3A: : AGH11A

LAL9! 'LA**

M; NS<T'

A B

M; NS<S'

E @

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE" 8,7.1,4)1*,-*#\$06;70.;,7<

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

Р



! "#\$\&'()\'*+,\&-\'*\.\ "#\&\'\'O\'1\"2-\'3\"4\\"*\\$55\\". \"6\&7/8\9,7. +67\&+(6\: 78\;<=>

*9: 9*19! 'LA**

 M>SPP; 0R>RQ
 M>SPM<0RRMQ</th>
 M>SPM=0R>; Q
 M>SPMR0R; MQ
 M>SPMM0R>NQ

 M>SM<<0RTPQ</td>
 M>SM<; 0R>; Q
 M>SM<S0SSPQ</td>
 M>SM<R0RM<Q</td>

 M>SM<P0RP: Q</td>
 M>SM<M0RRMQ</td>
 M>SM=0P<MQ</td>
 M>SM=0P>>Q
 M>SM=; 0R<NQ</td>

AHG1EH1'BCDD9E9'CF'9GEHG99! HGE'LA1@A: ?11C: 'W1:

LAL9! 'LA**

O/762-J'A55%"K'9%"2&/(6+2#'76K'H6#&/\$. "6&7&+(6

M>SPP='

3

M>SPPM'

Ε

M>SPM>'

Ε

M>SPMT'

Α

M>SPMS'

Ε

M>SM<>'

E @

M>SM=>'

Α

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&"

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

0



*1'UC*9L@*''BCDD9E9'CF'9GEHG99! HGE'AG3'19B@GCDCEV'B@CCG3AB@9! ! V'LADA

O/762-J'A55%"K'9%"2&/(6+2#'76K'H6#&/\$. "6&7&+(6

*9: 9*19! 'LA**

M; P===0SMP0

M; P = > 0R < > 0

M: P==N0PPN0

M: P == T0RN > 0

M: P == R0P = T0

M; P==P0STR0

M: P == M0R: P0

M; P=; <0ST=0

M; P = : = 0RR = 0

M; P=; T0SPMQ

M; P=; M0RN; Q

M; P=>; 0P<>0

M; P = > 0SR < 0

M; P=>T0RNMQ

M; P=>S0RT; Q

M: P => R0P < S0

M; P = > M0R < ; Q

*1'UC*9L@*''BCDD9E9'CF'9GEHG99! HGE'AG3'19B@GCDCEV'
B@CCG3AB@9!!V'LADA

LAL9! 'LA**

O/762-J'A55%"K'9%"2&/(6+2#'76K'H6#&/\$. "6&7&+(6

M: P=><'

В

M: P => N'

Α

M: P = > P'

A F

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

" #\$%&'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

!>



%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE" 8,7.1,4)1*,-*#\$06;70.;,7<

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

Ιİ



! "#\$%\'()\'*+, &-\'*\. \"#\\"\'O\'1\"2-\'3\"4\\\\\\\\$55\\\\\. \\\6\87/8\9, 7. \\+67\&+(6\': 78\'; <=>

?@A18'C@DD9?9'@E'9F?GF99! GF?'HI GFI AJ 0/762-K'G6)(/. 7&+(6'1"2-6(%(48

*9: 9*19! 'HI **

L; >M <=NOP > 0	L; >M<; NOOPQ	L; >M <mnpr=0< th=""><th>L;>M<onoplq< th=""><th>L; >M<rnpopq< th=""></rnpopq<></th></onoplq<></th></mnpr=0<>	L;>M <onoplq< th=""><th>L; >M<rnpopq< th=""></rnpopq<></th></onoplq<>	L; >M <rnpopq< th=""></rnpopq<>
L; >M <lnproq< td=""><td>L; >M==NOMMQ</td><td>L; >M=; NO>MQ</td><td>L;>M=>NO>LQ</td><td>L; >M=MNOM>0</td></lnproq<>	L; >M==NOMMQ	L; >M=; NO>MQ	L;>M=>NO>LQ	L; >M=MNOM>0
L; >M=SNO < SQ	L; >M=RNRPSQ	L; >M; =NOOLQ	L;>M;;NR<=0	L; >M; >NR<=0
L; >M; MNRM>Q	L; >M; SNOMOQ	L; >M>; NPL>0	L; >M>PNR <lq< td=""><td>L; >M>ONR<; 0</td></lq<>	L; >M>ONR<; 0

?@A18'C@DD9?9'@E'9F?GF99!GF?'HIGFLAJ

HI H9! 'HI **

L; >MM < NR < PQ

O/762-K'G6)(/.78+(6'1"2-6(%(48)

L; > M=0'

L; >M>LNPP<0

3 ? T

L; >M; P'

3 9

L; >M; 0'

9

L; >M; R'

a

L; >M; L'

С

L; >M><'

3

L; >M>R'

9

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

!



! "#\$%\'()\'*+, &-\'*\. \"#\\"\'O\'1\"2-\'3\"4\\\\\\\\$55\\\\\. \\\6\87/8\9, 7. \\+67\&+(6\': 78\'; <=>

! I UI ?G! G'*CT@@D'@E'9F?GF99! GF?'I F3'19CTF@D@?V O/762-K'G6)(/.78+(6'1''2-6(%(48)

*9: 9*19! 'HI **

L; P00>N0><0

L; POOMNOP<Q

L; POOPNOMRQ

L; PORSNR==Q

L: P0L<N0><0

L; POLMNPROQ

! | U| ?G! G'*CT@@D'@E'9F?GF99! GF?'| F3'19CTF@D@?V

HI H9! 'HI **

O/762-K'G6)(/.78+(6'1"2-6(%(48)

L; P0R<'

L; P0R>'

?

L; PORL'

?

%2*: ;44< =>?@A?=@BC

+DE" 8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%%'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66\#/#7'809(: -8/,78',;7(<89(=>!? ! "#\$%#! \$&'



! "#\$%\()\'*+, &-\'*\. "#\(\)\'\O\1\"2-\3\"4*\\$55\\\\. \\\6\(\)\7\. \\+67\(\)\+(6\: 78\;<=>

<u>I 3G'*TI FWI ! I 'GF*1G1J 19'@E'9F?GF99! GF?'I F3'19CTF@D@?V'WI DI 3V</u> 0/762-K'G6) (/. 7&+(6'1"2-6(%(48

*9: 9*19! 'HI **

L><; P>NO<PQ

L><; 0=NPLPQ

L><; 0; NPRPQ

L><; OSNR<PQ

L><; R; NOP>0

L><; R>NOOLQ

L><; RSNPL<0

L><; RPNOOMQ

L><; RONOLPQ

L><; RRNPR; Q

HI H9! 'HI **

O/762-K'G6) (/. 7&+(6'1"2-6)% (48)

L><; P='

?

L><; 0M'

Ε

L><: 0P'

C

L><; 00'

С

L><; 0R'

0 ?

L><; 0L'

С

L><; R='

3

%2*: ;44< =>?@A?=@BC +DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<



<u>I: I D'UV@1TG'9F?GF99! GF?"C@DD9?9'W@@AI HHI DDV'WI FUG! I HI DDV</u> O/762-K'G6)(/. 7&+(6'1"2-6(%(48

*9: 9*19! 'HI **

<NR<00

L; RRM=NPLMQ

L; RRM; NPS<0

L; RRMONO>LQ

L; RRMRNO; RQ

L: RRSSNPRP0

L: RRSRNPMS0

L: RRSLNPP<0

L; RRP<NOMSQ

L; RRP=NPLOQ

L; RRP; NO; LQ

I: ID'UV@1TG'9F?GF99!GF?"C@DD9?9'W@@AIHHIDDV'WIFUG!IHIDDV

HI H9! 'HI **

O/762-K'G6)(/.78+(6'1"2-6(%(48)

L; RRMM'

9

L; RRMP'

?

L: RRS='

9

L; RRS; '

3 9

L; RRS>'

3 9

L; RRSP'

?

L; RRS0'

9

L; RRP>'

Ε

L; RRPS'

9 ?

L; RRP0'

3

%2*: ;44< =>?@A?=@BC +DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

L



CIII: 9D'9F?GF99!GF?'C@DD9?9'H9!GFI3J'!IFFG O/762-K'G6)(/.78+(6'1''2-6(%(48)

*9: 9*19! 'HI **

L>: LSSNOS>0

L>: LSPNOSMO

L>; LS0N0000

L>; LSLNO; RQ L>; LP>NO<; Q

L>; LOPNORMQ

CIII: 9D'9F?GF99!GF?'C@DD9?9'H9!GFI3J'!IFFG

HI H9! 'HI **

O/762-K'G6)(/.78+(6'1"2-6(%(48)

L>; LS; '

1 3

L>; LP='

3

L>: L0<'

9

L>; L0='

Т

L>; L00'

Т

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE" 8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

! "#\$%\'()\'*+, &-\'*\. \"#\\"\'O\'1\"2-\'3\"4\\\\\\\\$55\\\\\. \\\6\87/8\9, 7. \\+67\&+(6\': 78\'; <=>

GDI TGI 'C@DD9?9'@E"'9F?GF99! GF?'I F3"19CTF@D@?V': JDI A@@! '

: @@AI 11JHJXTI

O/762-K'G6)(/.78+(6'1"2-6(%(48)

*9: 9*19! 'HI **

L>P<OMNPM: Q L>P<0SN0M00 L>P<R=NORSQ

L>P<RSNOP=0

L>P<RRNOSOQ

L>P<L>NPM>Q

L>P<LMN0; <0

L>P<LRN0=<0

L>P<LLNPPRQ

L>P=<>NORRQ

L>P=<RNOM; Q

L>P===N0; RQ

L>P==; NOPOQ

L>P==SN0;00

GDI TGI 'C@DD9?9'@E"'9F?GF99!GF?'IF3"19CTF@D@?V': JDI A@@!' : @@AI 11JHJXTI

HI_H9! 'HI **

O/762-K'G6)(/.78+(6'1"2-6(%(48)

L>P<0='

C

L>P<0: '

9 ?

L>P<0P'

Ε

L>P<00'

L>P<0R'

3

L>P<RP'

L>P<L0'

3

L>P=<M'

3

L>P==>'

С

L>P==M'

%2*: ;44< =>?@A?=@BC

+DE" 8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-',(+#/#\$'#0(1(2#3,(4#50##(+%66&#/#7'809(:-8/,78');7(<89(=>!?! "#\$%#! \$&'

@; /6,&#A(%\$,75('. #(! "#\$%#&' (\$; *'B80#(A#C#&; 6#A(87A(/8,7'8,7#A(D9(' ()*+, -./01)*2)3)4,56)7.*')06 *8'(8#' #9EF80##G\$.8(1.8C87E(<8.8'/8(H87A.,(I 7,C#0\$,'9(J;''898/K



W: 91 '9F?GF99! GF?B'C@DD9?9'931 1TI DI 'I DJAI O/762-K'G6)(/.78+(6'1"2-6(%(48)

*9: 9*19! 'HI **

L>0S0; NPP; Q

L>0S0>NPL=0 L>0S0MN0>: 0

L>OSL<NOSSO

L>0P<<N0P<0

L>OP<PNOORQ

W: 91 '9F?GF99! GF?B'C@DD9?9'931 1TI DI 'I DJAI

HI H9! 'HI **

O/762-K'G6)(/.78+(6'1"2-6(%(48)

L>0S0='

3

L>0S0L'

3

L>0SR='

3

L>0SL; '

3

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE" 8, 7.1, 44)1*, -*#\$06;70.;, 7<

" #\$%%'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?



! "#\$\&'()\'*+, \&-\'*\". \"#\\"\'O\1\"2-\3\"4\\\\\\\\\$55\\\\\.\\\\6\87/8\9, 7. \\+67\\\+(6\: 78\;<=>

*9: 9*19! 'HI **

L>RMO>NOPOQ	L>RMOMNOSMQ	L>RMOPNPLSQ	L>RMORNPPOQ	L>RMR=NO<=0
L>RMR; NOSPQ	L>RMR>NOR>Q	L>RMRONO=P0	L>RMRRNPOLQ	L>RML <nr<; q<="" td=""></nr<;>
L>RML=NPSPQ	L>RML; NO>; Q	L>RML>NPPPQ	L>RMLPNO; MQ	L>RMLRNOS; Q
L>RS< <no=sq< td=""><td>L>RS<=NO<mq< td=""><td>L>RS<; NPSSQ</td><td>L>RS<>NOS<q< td=""><td>L>RS<onporq< td=""></onporq<></td></q<></td></mq<></td></no=sq<>	L>RS<=NO <mq< td=""><td>L>RS<; NPSSQ</td><td>L>RS<>NOS<q< td=""><td>L>RS<onporq< td=""></onporq<></td></q<></td></mq<>	L>RS<; NPSSQ	L>RS<>NOS <q< td=""><td>L>RS<onporq< td=""></onporq<></td></q<>	L>RS <onporq< td=""></onporq<>
L>RS= <no; mq<="" td=""><td>L>RS=SNRR; Q</td><td></td><td></td><td></td></no;>	L>RS=SNRR; Q			

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?



! "#\$\\(\)'\'*+,&-'*". "\(\)\'\'\'\'\'*\\$55\\'\. "6\\(\)\'\\'\\\+67\\(\)\\(\)\'\:\\->

: | F?| D| : 'C@DD9?9'@E'9F?GF99!GF?'911J: | F@@!

HI H9! 'HI **

O/762-K'G6) (/. 7&+(6'1"2-6) (% (48)

L>RS;;'

I

%2*: ;44< =>?@A?=@BC

+DE" 8,7.1,4)1*,-*#\$06;70.;,7<



! "#\$%\'()\'*+, &-\'*\. "#\\"\'O\'1\"2-\'3\"4\\"*\\$55\\". "6\\7\8\9, 7. +67\\+(6\: 78\;<=>

: I 1TI 'C@DD9?9'@E'19CTF@D@?V': I FI WI HI 3V'F@! 1T'HI!J! O/762-K'G6)(/. 7&+(6'1"2-6(%(48

*9: 9*19! 'HI **

L; 0=0PN0>RQ

L; 0=ORNRRRQ

L; 0=R; NOP=0

L; O=R>NOM>Q

L; O=RSNR; SQ

L; 0=RONR=; 0

L: 0=RRNRS00

L: 0=RLNRMS0

L: 0=L<NR>L0

L; 0=LSNOS>Q

L; O=LPNORLQ

L; 0=LRN0=PQ

: I 1TI 'C@DD9?9'@E'19CTF@D@?V': I FI WI HI 3V'F@! 1T'HI!J!

HI H9! 'HI **

O/762-K'G6)(/.78+(6'1"2-6(%(48)

L; 0=P; '

2

L: 0=P>'

0 3

L: 0=PS'

3 9

L: 0=P0'

?

L; 0=LL'

3

L; 0; <<'

9 ?

L; 0; <='

3

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%å'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66&#/#7'809(: -8/,78',; 7(<89(=>!?

!>



! "#\$\&'()\'*+,\&-\'*\.\ "#\&\'\'O\'1\"2-\'3\"4\\"*\\$55\\". \"6\&7/8\9,7. +67\&+(6\: 78\;<=>

<u>: @JF1'XG@F'C@DD9?9'@E'9F?GF99! GF?'WI 3I : : I FG11I</u> O/762-K'G6) (/. 7&+(6'1"2-6(%(48

*9: 9*19! 'HI **

L; MO==NPRSQ

L; MO=MNP>SQ

L; MO=ONOL<Q

L; MO=RNO=MQ

L; MO=LNO>=0

L; MO; <NPLOQ

L; MO; MNOS=Q

L: MO>RNOSLQ

L; MOM=NOR; Q

L; MOM>NPOMQ

L; MOMLNPOMQ

: @JF1'XG@F'C@DD9?9'@E'9F?GF99!GF?'WI3I:: IFG11I

HI H9! 'HI **

O/762-K'G6) (/. 7&+(6'1"2-6) (% (48)

L; M0=S'

7

L; MO; >'

Ε

L: MO: P'

2

L; MO>M'

9

L; M0>P'

ī

L; MOM; '

?

L; MOMR'

?

L; MOS; '

Ι

%2*: ;44< =>?@A?=@BC +DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

! "#\$%#! \$&' "#\$%\() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66\(#/#7'809(: -8/,78',;7(<89(=>!?

ij



! "#\$%\()''*+,&-'*". "#&"/'0'1"2-'3"4/""'*\$55%". "6&7/8'9,7. +67&+(6': 78';<=>

AG*YIUV@1G'C@DD9?9'@E'9F??\\\Z19CTF@D@?V'ALXTLWJDL: O/762-\\'G6)(/. 7\\\+(6'1"2-6(\\(48

*9: 9*19! 'HI **

L>LP=MNO=<0

L>LP=SNO>MQ

L>LP=LNPOR0

AG*YIUV@16'C@DD9?9'@E'9F??BZ19CTF@D@?V'AIXTIWJDI:

HI H9! 'HI **

O/762-K'G6)(/.78+(6'1"2-6(%(48)

3 E L>LP=>'
?
L>LP=R'
3 ?
L>LP; ='
3 ?
C ?

L>LP; M'

L>LP; S'

١

L>LP=; '

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%\\'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66\\#/#7'809(: -8/,78',;7(<89(=>!?

! =



! "#\$%\'()\'*+, &-\'*\. "#&\"\'O\'1\"2-\'3\"4\\"*\\$55\\". "6\\7\8\9, 7. +67\\+(6\: 78\;<=>

<u>JFGA9! *G1V'C@DD9?9'@E'9F?GF99! GF?['1T@3JHJXTI</u> 0/762-K'G6)(/. 7&+(6'1"'2-6(%(48

*9: 9*19! 'HI **

L: M<S=NO>RQ

L; M<SRNOS; Q

L; M<SLNOL<Q

L; M<P<NOROQ

L: M<P=NPR<0

L; M<P>NO; SQ

L; M<PSNOLMQ

L; M < PLNO; = 0

L; M<0>N0<SQ

JFGA9! *G1V'C@DD9?9'@E'9F?GF99!GF?['1T@3JHJXTI

HI H9! 'HI **

O/762-K'G6) (/. 7&+(6'1"2-6) (% (48)

L; M<S; '

C

L; M<SM'

C 9

L; M<PM'

3

L; M<P0'

9 ?

L; M<PR'

C T

L; M<0; '

9 ?

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?



%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE" 8,7.1,44)1*,-*#\$06;70.;,7<

١L



! "#\$\&'()\'*+,\&-\'*\.\ "#\&\'\'O\'1\"2-\'3\"4\\"*\\$55\\". \"6\&7/8\9,7. +67\&+(6\: 78\;<=>

<u>?939! @A'BC*1B1D19'E?'*FB9CF9'@C3'19FGCEAEHI': EEJ@CCD!'@CH@: @AB</u> O/762-K'9%''2&/(6+2#'76L'B6#&/\$. "6&7&+(6'964+6"''/+64

*9. 9*191 'M@**

N>=>0=PQR<S

N > = > 0 > PQ < = S

N > = > OQPQ > RS

N > = > N; PQ < QS

N>=>NTPTONS

N>=>NOPO=OS

 $N \ge NOPO \le S$

N>=R<=PQ>QS

N>=R<>PQNQS

N>=R<TPQ<<S

?939! @A'BC*1B1D19'E?'*FB9CF9'@C3'19FGCEAEHI ': EEJ@CCD! '

@CH@: @AB

M@M9! 'M@**

<u>0/762-K'9%"2&/(6+2#'76L'B6#&/\$. "6&7&+(6'964+6""/+64</u>

N>=>0: '

7

N>=>00'

@ 0

N>=>0N'

@ H G

N>=>N<'

9 G

N>=>N>'

3

N>=>NR'

@ 3 H

G

N>=>NN'

?

N>=R<<'

G

N>=R<; '

@

%2*: ;44< =>?@A?=@BC +DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

:

! "#\$%\'()\'*+, &-*\". \"#\\"\'O\1\"2-\3\"4*\\$55\\\". \"6\\7\8\9, 7. \+67\\+(6\: 78\; <=>

<u>J: 9@'9CHBC99! BCHU'FEAA9H9'93@1G@A@'@ADV@</u> O/762-K'9%''2&/(6+2#'76L'B6#&/\$. "6&7&+(6'964+6"''/+64

*9: 9*19! 'M@**

N>QQ=; PQ <ts< th=""><th>N>QQ=>PO; NS</th><th>N>QQ=RPTN=S</th><th>N>QQ=TPQ<qs< th=""><th>N>QQ;;PQ<rs< th=""></rs<></th></qs<></th></ts<>	N>QQ=>PO; NS	N>QQ=RPTN=S	N>QQ=TPQ <qs< th=""><th>N>QQ;;PQ<rs< th=""></rs<></th></qs<>	N>QQ;;PQ <rs< th=""></rs<>
N>QQ; >PQWQS	N>QQ; RPQQ; S	N>QQ; WPTN=S	N>QQ; NPTT<\$	N>QQ> <pq; ns<="" th=""></pq;>
N>QQ>=PQT>S	N>QQ>>PQRTS	N>QQ>QPTRQS	N>QQ>NPQ=; S	N>QQR=PQ; <\$
N>QQR; PTNOS	N>QQR>PQR>S	N>QQRWPQ>QS	N>QQRTPTTRS	N>QQROPQ>OS
N>00RNPO <ts< td=""><td>N>OOW<ptots< td=""><td>N>OOW=PTO: S</td><td></td><td></td></ptots<></td></ts<>	N>OOW <ptots< td=""><td>N>OOW=PTO: S</td><td></td><td></td></ptots<>	N>OOW=PTO: S		

J: 9@'9CHBC99! BCHU'FEAA9H9'93@1G@A@'@ADV@

M@M9! 'M@**

O/762-K'9%''28/(6+2#'76L'B6#8/\$. "6878+(6'964+6""/+64

N>QQ=='

9

N>QQ=N'

@ H

N>QQ; ='

@

N>QQ; T'

@ 3

N>QQ; Q'

3 9

N>QQ>R'

@

N>QQ>T'

@

N>QQR<'

3

N>QQRR'

@ F 3 9

%2*: ;44< =>?@A?=@BC +DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<



%2*: ;44< =>?@A?=@BC

+DE" 8,7.1,4)1*,-*#\$06;70.;,7<



?: ?@'ABC1DE'9FGEF99! EFG"HC@@9G9'I CCJ?KK?@@B'I ?FAE! ?K?@@B 0/762-L'?\$&(. (M+%"'964+6""/+64

*9: 9*19! 'K?**

N; ONPPQP=RS

?: ?@'ABC1DE'9FGEF99! EFG''HC@@9G9'I CCJ?KK?@@B'I ?FAE! ?K?@@B

K?K9! 'K?**

0/762-L'?\$&(. (M+%"'964+6""/+64

N; ONP='

9

N; ONPR'

0

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%\\'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66\\#/#7'809(: -8/,78',;7(<89(=>!?

!



! "#\$\&'()\'*+,\&-\'*\.\ "#\&\'\'O\'1\"2-\'3\"4\\"*\\$55\\". \"6\&7/8\9,7. +67\&+(6\: 78\;<=>

: ?1D?'HC@@9G9'CT'19HDFC@CGB': ?F?I ?K?3B'FC! 1D'K?! U! 0/762-l'?\$&(. (M+%"'964+6""/+64

*9: 9*19! 'K?**

N; P >= NQOV; S N; P >; QPV; S N; P >; QPVOS N; P >; QPVOS N; P >; QP < WS

 $N; P>>> QPVVS \qquad \qquad N; P>> WQP=<S \qquad \qquad N; P>> OQO=VS \qquad \qquad N; P>V < QRNPS \qquad \qquad N; P>V; QPV=S$

N; P>VVQP; < S N; P>VPQPVPS N; P>WRQP<< S N; P>RPQO== S N; P>RQQP; WS

N; P>P<QPPWS N; P>PWQPVWS N; P>OVQPVNS

%2*: ;44< =>?@A?=@BC

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<



! "#\$%&'()''*+, &-'*". "#&"/'0'1"2-'3"4/""'*\$55%". "6&7/8'9, 7. +67&+(6': 78'; <=>

: ?1D?'HC@@9G9'CT'19HDFC@CGB': ?F?I ?K?3B'FC! 1D'K?! U!

K?K9! 'K?**

0/762-L'?\$&(. (M+%"'964+6""/+64

N; P > = ='Т $N; P \ge P'$ 3 N; P > ; ='T G N; P>; >'? N; P>; W' 0 D N; P>; N' ? 0N; P>><' ? D N; P >>='0 N; P>>V' 0 Т N; P >> P'? N; P >> N'? N: P>V=' Τ N: P>V>' O T G N: P>VR' Τ

> %2*: ;44< =>?@A?=@BC

+DE" 8,7.1,4)1*,-*#\$06;70.;,7<

?

! "#\$%\'()\'*+, &-\'\\". "#\\"\'O\'1\"2-\'3\"4\\"\\\\\\$55\\". "6\\7\8\9, 7. +67\\+(6\: 78\;<=>

: ?1D?'HC@@9G9'CT'19HDFC@CGB': ?F?I ?K?3B'FC! 1D'K?! U!

K?K9! 'K?** N: P>V0' Н N; P>VN' ? D N; P>W=' N; P>WV' ? 0 N; P>W0' ? Т D N; P>WN' 0 N; P>R<' ? 9 Т G N; P>R='G N; P>R>' ? N; P>PV' Τ N; P>PR' G D N: P>PP' G N; P>P0' D N; P > 0 < 'D N: P>0W' Τ 0 D %2*: ;44<

=>?@A?=@BC

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<



! "#\$%\'()\'*+,&-\'\". "#\\"\'O\1\"2-\3\"4\\"*\$55\\". "6\\7\8\9,7. +67\\+(6\: 78\;<=>

*H: *'*HDCC@'CT'9FGG\'Y'19HDFC@CGB'I ?! UI U11B 0/762-L'?\$&(. (M+\%'''964+6''''/+64

*9: 9*19! 'K?**

N>W=PVQPVOS	N>W=PRQPV>S	N>W=PPQRROS	N>W=PNQRNWS	N>W=0>QRN <s< th=""></s<>
N>W=ORQPR; S	N>W=0000; >S	N>W=ONQO <ps< td=""><td>N>W=NPQRO=S</td><td>N>W=NOQPWOS</td></ps<>	N>W=NPQRO=S	N>W=NOQPWOS
N>W; <= $QOVN>W; N>W; SN>W; N>W; =; QRPWS$	N>W; <vqp<vs< td=""><td>N>W; <pqro>S</pqro></td><td>N>W; <nqpprs< td=""><td>N>W; =; QRPWS</td></nqpprs<></td></vqp<vs<>	N>W; <pqro>S</pqro>	N>W; <nqpprs< td=""><td>N>W; =; QRPWS</td></nqpprs<>	N>W; =; QRPWS

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

M

! "#\$%&'()''*+, &-'*". "#&"/'0'1"2-'3"4/""'*\$55%". "6&7/8'9, 7. +67&+(6': 78'; <=>

*H: *'*HDCC@'CT'9FGG\"Y'19HDFC@CGB'I ?! UI U11B

K?K9! 'K?**

0/762-l'?\$&(. (M+%"'964+6""/+64

N>W=P='

0

N>W=P; '

?

N>W=P>'

D

N>W=O<'

? 3

N>W=0='

Η

N>W=N='

3 T

N>W=N>'

? 9 T

N>W=NV'

? G D

N>W=NW'

O T

N>W=NR'

0

N>W; <W'

3

N>W; =<'

3

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

"#\$%d'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!?

N



%2*: ;44< =>?@A?=@BC

+DE" 8,7.1,4)1*,-*#\$06;70.;,7<

! "#\$%#! \$&' "#\$%\() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66\(#/#7'809(: -8/,78',;7(<89(=>!?

0



*'?': ''@?*1@1A19'BC': D?DE9: 9?1'D?3'19FG?BHBEIJ': DH@D?KD! D O/762-L'@6#&/\$. "'6&7&+(6'76M'F(6&/(%'964+6""/+64

*9: 9*19! 'ND**

0 >> P = 00R; =S

0>>P; TQPP=S

0>>P>UQPPTS

0>>P>00R=0S

0>>PT<QRT; \$

0>>PTVQRTUS

0>>PTU0R>TS

0>>PV=0R=RS

%2*: ;44< =>?@A?=@BC

+DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

Ţ

! "#\$%\'()\'*+, &-\'\\". "#\\"\'O\'1\"2-\'3\"4\\"\\\\\\$55\\". "6\\7\8\9, 7. +67\\+(6\: 78\;<=>

*'?': ''@? *1@1A19'BC': D?DE9: 9?1'D?3'19FG?BHBEIJ': DH@D?KD! D

NDN9! 'ND**

0/762-l'@6#&/\$. "6&7&+(6'76M'F(6&/(%'964+6""/+64

0>>P=T' Ε 0>>P=P'Ε 0 >> P = R'C 0>>P; <' 9 C 0 0 >> P' =0 E 0>>P;;' 0 0>>P; P'D 0>>P><' 0 0>>P>=' D 0>>P>>' 0 Ε 0>>P>T' 0 0>>P>R' D = 09 0>>PT: ' C 0>>PTR'

> %2*: ;44< =>?@A?=@BC

0

+DE" 8, 7.1, 44) 1*, -*#\$06;70.;, 7<

"#\$%&'() *((+,-'.(+#/#\$'#0(1(2#3.(4#50##(+%66&#/#7'809(: -8/,78',;7(<89(=>!? ! "#\$%#! \$&'



! "#\$%\\"()\"*+, \&-\"\". "#\\"\'O\1\"2-\3\"4\\"\"*\\$55\\". "6\\7\8\9, 7. +67\\+(6\: 78\; <=>

*'?': ''@?*1@1A19'BC': D?DE9: 9?1'D?3'19FG?BHBEIJ': DH@D?KD! D

NDN9! 'ND**

0>>PT0'

0

0>>PV<'

0 F

%2*: ;44< =>?@A?=@BC

! "#\$%#! \$&'

+DE"
8, 7.1, 4)1*, -*#\$06;70.;, 7<

"#\$%%'() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66%#/#7'809(: -8/,78',;7(<89(=>!?

?



! "#\$%\'()\'*+, &-\'*\". "#&\"\'O\'1\"2-\'3\"4\\"*\\$55\\". "6\\7\8\9, 7. +67\\+(6\: 78\;<=>

%2*: ;44< =>?@A?=@BC

+DE" 8,7.1,4)1*,-*#\$06;70.;,7<

! "#\$%#! \$&' "#\$%\() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66\(#/#7'809(: -8/,78',;7(<89(=>!?

- 1



: ?@A1'BC?A'D?EE9F9'?G'9AFCA99! CAF'HI 3I : : I AC11I 0/762-J'I "/(67\$&+27\%'964+6""/+64

*9: 9*19! 'KI **

L; MNO>PQQOR

L; MNOQPQ><R

L; MNONPQMLR

L; MNQ=PQ<NR

L: MNOSPOONR

L: MNN<PQN=R

L; MNN; PONSR

L: MNNSPO><R

L: MNL<PQ=OR

L; MNL=PONMR

L; MNL>PQOSR

: ?@A1'BC?A'D?EE9F9'?G'9AFCA99!CAF'HI3I: : IAC11I

KI K9! 'KI **

0/762-J'I "/(67\$&+27%'964+6""/+64

L: MNO='

D

L: MNQO'

G

L: MNN='

D 9 G

L; MNNO'

1 0

L; MNNQ'

D

F

3

G

O G

L: MNNN'

l D

L; MNNL'

0

L; MNLM'

D

%2*: ;44< =>?@A?=@BC +DE"
8, 7.1, 44)1*, -*#\$06;70.;, 7<

!



! "#\$\\(\)'\'*+,&-'*". "#\\"/'O'1"2-'3"4/""'*\$55\\". "6\\(\)78'9,7. +67\\(\)+(6': 78';<=>

%2*: ;44< =>?@A?=@BC

+DE" 8,7.1,4)1*,-*#\$06;70.;,7<

! "#\$%#! \$&' "#\$%\() *((+,-'. (+#/#\$'#0(1(2#3. (4#50##(+%66\(#/#7'809(: -8/,78',;7(<89(=>!?

=