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51 E F C D E G C H E I J K K L M M M L J K N O K L J K N P G C Q E I J R K L M M M L J R N O K L J R N P S T
52 N I U J K K L M M M L J K N O K L J K N V W U J R K L M M M L J R N O K L J R N V P S X Y Z N I J K L M M M L J
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60 s t w g k x s t w h k o } m n k ~ m p k u

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[illegible]

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240 W 2 6! F& 7 & 8 G X97 98 , 3!!!3 # 9 8 8 9 7 T* + < , 3!!!3+ ?@< #3, 3+ ? # -T < = > > > = ? ! Y 7 8'7 9'
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244 +2& 1 0 3) * + ! " # # # " \$%! " ((- \$! /&" # # # " 0 /& 1 ! & 1 \$%! +, & 1 (+ 1 \$! ! +2& 1 0 3) * + ?
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246 B k ' _ [\]] ' d j [c ' Z ' k _ c f m e b f f] [h c l] Z a e [\] k ' _ n j d b o p q r s ' Z d e ' Z] f ^ ' [n] b f j _] t u v ! ! " v w ! x " # # # " u v !
247 0 " v w 0 x 6 7] y c f [f z { \] _] 1 & 1 () O B 9 | _ c [[\] _] ^] f] Z [b [c ' Z t B 6 7 t u v ! ! " v w ! x " # # # " u v ! 0
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251 - 3 , - . F 15 B , 4 1 + 1 C 04 7 G 637 7 . , 9 H I J K < L L L < J I ? ; I M K 4 7 @ 4 F . + 26 , - . C 10 N B 5 3 O P Q R S T U - . + . 8.77
252 3063 + A 7 B V 84 . + , 81 + A 4 , 4 1 + 71 C , - . B + 4 W B . + 7 71 C N 30 , 4 + @ 35 . N . 37 B 0 . X D Y < Y Z = ; < 30 . , - . 4 + .
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255 1 , - . B + 4 W B . N . 37 B 0 . X D Y , - . 0 / 0 . 7 + , 3 , 4 1 + i I J K < L L L < J I _ K < J I a I j k M K l k J K < L L L < J k _ K
256 H k J K < L L L < J k _ K < J E m H k _ K J K < L L L < J k _ K n i D < c a < d < e 4 7 , 0 B . o p - . 0 . l k J K < L L L < J
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258 r r q E s ^ \ a i u v w \ x y y x w] ^ \ x w] J K < L L L < J I X D Y E \ q r r r q E] ^ \ q E] v w \ x y y x w] ^ \ k J
259 E \ K < L L L < J E s ^ \ k _ K < J K k m i k J E \ K < L L L < J E s ^ \ k _ K < J b k H k J E \ K < L L L < J E s ^ \ k _ K < J
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270 L K 3 D 5 L 5 7 N 2 5 8 9 9 9 8 2 3 D 5 8 7 x x ' x x ' x * x x ' x) x x ' x *) x x ' x y z { . / | } x x ' x ' x ' * w x x ') x ' x '
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288 6 " # \$ % # \$ & ' () * + , , - + . C D E F G E H I J K L M N O P Q 1 2 R S R T U T N V W Q S X P Y Z [\] [^ R P T M _ N
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Figure 1:

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Figure 2:



Figure 3:



Figure 4:



Figure 5:



Figure 6:



Figure 7:



Figure 8:



Figure 9:

Figure 10:

Figure 11:

0 123456 7 89 7 04 4 20 34 030 0 4 4 2 9 7 4420 2 40123456 89 8 4 420 0 4 2
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S IH ZGY WT k
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__WYHZGkGQ] XT QP[G] VQUGIJ s LM s OLta bLcpwZGT GY WT GmgGRWlx
HS IH T WRXUGIGg RGIWH QH S WIY WTH ZGhi Q[jGPT QM s WYH ZGkGQ]
XT QP[G]VQUGIJ s LM s OL] S IUGS HQ[gQ\] gS [[PGU[GQTH ZGRS yGT
GIUGPGH gGGIH ZGQPWzGS IH T WRXUGRhi Q[jGPT QM s WYr[H T QH
S Wl WlH ZGkGQ] XT QP[G]VQUGIJ K LM K OQIRH ZGhi Q[jGPT QM s
WYH ZGkGQ] XT QP[G]

Figure 12:

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Figure 13:

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Figure 14:

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9 G ^ _ ' a ^ _ ' b c
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Figure 15:

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Figure 16:

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 312 84 165 " 5 513!5" #4 5 F GH 3 3 I H J 3 K I L L L I GH 3 M I H J M K \$ N'9 " 513!"4 9 -"* 5 !5" #4 5 O P5"*
 313 * 723 14N)5* 1-9 -1 5+, " *-5)4 ". Q 13 5R* 4 " 9 12S5 "65N6T 1 Q 1 S54 5T)5* 1-1+, " *-5)4 ". Q 13 5!5" #4
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 325 71 ! ?? 1 2 3 4 5 6 7 7 7 6 4 895 6 5 895 5 2 0 1 5 895 2 0 1 0 1 2 3 4 5 6 7 7 6 4 895 6 5 895 5 2 0 1 ! 0 1 2 3 4
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 339 4 2 673 4 8 9 0 1 2 3 4 5 5 5 4 2 673 9 9 3 673 1 2 3 4 5 5 5 4 2 673 9 3 673 0 1 2 3 4 5 5 5 4 2 673 9 ! " # 3 \$ #
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 342 3 4 5 5 5 4 2 673 9 -9 9 . /01230 0 1 2 3 4 5 5 5 4 2 673 4 39 9 3 673 1 2 3 4 5 5 5 4 2 673 4 3 4 9) 0 1 2 3 4 5 5
 343 5 4 2 673 4 89 9 3 673 1 2 3 4 5 5 5 4 2 673 4 8 9 0 1 2 3 4 5 5 5 4 2 673 9 9 3 673 1 2 3 4 5 5 5 4 2 673 4 9
 344 3 673 0 1 2 3 4 5 5 5 4 2 673 9 -9 9 . 9 *+* 56778 9 ;30<2= =8 9>0?0@A A B 10= 0C B29>< 8 :1B129>@ 8
 345 >0@;CB 100D62= 8 B E 9 *+* F/0;GB 28 9B 100D62= 8 B 8 0@ 4 9 4 9 H 9 -9 9 . 9 *+I H 9 " 3 \$ 673 \$ 3 673
 346 0 1 2 3 4 5 5 5 4 2 673 9 9 *+J K0L< ;30>B 12BC ;<030< E72< B 8 9:2= 0M4 9 N \$ < 0= 2B 8 30B ;702@
 347 6< 0 B 10< 0L< 0@ 09B 2B 8 ;99 ,O,8 @B < 60F>60B ;B 10P;9>8 B 8 ;9@9 ,O+ QR0B6@L< ;30B 12B ??34
 348 562 4 65 2352 364 5 12 62 324 2865182 84 61 8 4 2 3 87815 2 72 4 186 58181 4 2 6 62 5 %82 84 2 36 34 12 3668
 349 2 4 818 4 5 5 5 62 54 5 72 4 7 4 ' 7 2 8 6 0 1 885 4 2 4 819665 2 4 5 32 36 8 865 62 15 8 2 4 815 6 2 4 6 2 834
 350 732 3681 65 64 54 1 4 12 (5 4 12 32 98682 365 67 4 2 4 -/0 10 -234567 89; ; <=>=? @ ? 7 AB:>C 9DE F GH F
 351 GI F JG=9? 6K7 89L? ; 9C7; ; LMC7<N 7 89; ; <=>=? @ ? 7 AB:>C 9BDE O P GH O P GI O P JG@ 977
 352 899Q<@ M7 ? <6<N;? B RA>B B97=9K? Q96=A7 89 N <;SM@ >T UVWX YZ? 7 8 [P \] G~~G\P _'P \]
 353 G~~G\P a] b P \] G~~G\P GZ89; 97 89; >6L<S Q>;? >=@ 9Bb P \] G~~G\P G'P \] G~~G\P a] GB >7
 354 ? BN A7 89? 69cM>@ ? 7 ? 9B b P \] G~~G\P deG P \] G~~G\P a] deG \$ fg h i j j j i g k l h m n o k l h 'P \]
 355 G~~G\P a] p \$ fg h i j j j i g k l h m n o k l h b P \] G~~G\P a] G \] P q a P \] P G r _Gs^t u<;BMC8>69Q<@
 356 M7 ? <6Y7 89M6? cM9S>;7 ? 6K>@ 9S9>BM; 9v O L<9B6<7L9:96L<67 89 ; >6L<S Q>;? >=@ 9B'P \]
 357 G~~G\P a] Gr _GsG>6L? 7? BK? Q96=A7 89N <;SM@ > v O w _v fg h h i g x h m i j j j i fg h y i g x y m
 358 w _z 4 ; <= -4 5 -7 7 % >8;?% 4 @AB7 C *0. = -4 5 -7 %D8;?% ! = -4 5 2 -78E%= -4 5 F -78G%* /!! .) .
 359 + 0 H 3 8H , 4 ;<I7 3 % IJB% H , JB% >8;?% 6 4 @A;7 K+ * ! . + / 1 3 4 4 5 2 %666%5 3 78 1 , 3 L -:2 4 ;<=
 360 -4 5 -7 7 H , 4 ;<I7 3 % >8;?% 4 @A@7 0) 0 M , N +EOIOG6P * ! *!+0 M -, 4 Q7 %QR& , -%D8;?%) . 0
 361 !"# , -%& , -(C M -, 4 5 2 -78
 362 ^q2 %666%5 -Z \$ 7 M , 4 "5 2 %666%5 ^% 5 -rn] ^q2 %666%5 -Z \$ (7 ; < = > ? ? ? > < :@= AB : ; < : A)
 363 " * 7 , -.
 364 / 01C
 365 4 129534 % 6&5 2925 3 2D " % 6% E25% (FGHI " J. " FGHI " J FGHI " J.
 366 .
 367 J3. R 8 9 : ; < = > ? ? ? > < :@= AB : ; < : A 3. FGHI " J3.
 368 -. I JST * 0 0U 412(5% 3V3% 2W " 8(4 12864 % 6&264 % 5#% % 4 'W X X % &% 26# '4 12(839 5 0123245
 369 65 2789 ! !"# \$ % \$ % \$ % & " # ' & # (") *+,-.)+/-0 1 2 % 34567458 # 9") *+:-;<"& " # ' ((" = \$!!>
 370 !1 2 % ! " 9";? ! (! # (") **@-;<
 371 London Journal of Research in Science: Natural and Formal 0 1 2 3 4 5 677764 285 64 5 2 90 1 2 3 4 5 677764

372 285 64 2 9 1 2 3 4 5 677764 285 64 5 2 9 1 2 3 4 5 677764 285 64 2 9 6 66 3 9 1 2 3 4 5 677764 285 9 0 1 285 3 4
373 5 677764 285 9 1 2 3 4 5 677764 285 9 1 285 3 4 5 677764 285 9 6 66 3 9 ?? 1 2 3 4 5 677764 2 9 1 3 4 5 677764
374 9 2 1
375 1 3 4 5 677764 2 64 1 !"# 2(5 677764 1 ' 9) * 3 4 5 677764 2 64 1 + "# 2(5 677764
376) * 3 4 5 677764 2 64 1 !"# 2(5 677764 1 ' 9 7
377 , -1 * 6 1 5 67776 1 6.6/601 23 4250678 259-3 4271 9:25 5 253 9 ;3 <98 23=5 >2793 234291 >215 3 03 @ 5 3 @
378 :5 1 A*B 6 1 A5B 67776 1 AB 6.6/69-3 4@ 55 0678 25 C DEFGFHI JI FKLMNOPPPQRST UVT 1 * 6 1 5 67776
379 p 2 q 8 2 3 4 5 2 9 6 66 .6/6 3 9 W RrVY W [f , ?3 42-91 6=8 053 9s27=33 403p 2 60 t uv # % & & %
380 v !m# wxy !m# p 2 3 4 5 677764 285 64 5 2 9 6 67 z[QQZ f{4271 99-9-[1 9795 @ 3 @ 9?@ 53 425062053 4271
381 99-9-{4291 26C {4@ 552:3 @ 9?71 25 273 508 83 42?2:25 5 01 }1 25 =8 3 5-91:9?5 3 1 =:3 @ ?~0?9? 01 @ 3 1
382 0~2@ ? :9678 23 2601 239?0>@ 5 :1 23 271 90@ 8 @ 3 }5 70:2C{42:9?>@ 3 @ 9?5=?>21s4@ :43 42 2?3 @ 1
383 2~06@ 8 }9-601 3 @ ?~08 26205 =1 25@ 5>25 :1 @ 2>-913 42:9?5 @ >21 2>:8 05 59-298 = 3 @ 9?9-1 @ 5 }05
384 5 23 501 26@ ?@ 608 C, ?701 3 @ :=8 01 ;9?>@ 3 @ 9?501 271 25 2?3 2>=?>21s4@ :4 3 42~06@ 8 }9-601 3 @
385 ?~08 26205 =1 25:9?5 @ >21 2>@ 52=@ 08 2?33 93 4291 @ ~@ ?086205 =1 2C {42}01 26@ ?@ 608 C{422?3
386 @ 1 25 239-2=@ 08 2?3601 3 @ ?~08 26205 =1 25@ 50:9?2t :96@ ?03 @ 9?9-0?@ 3 2?~6219-5 793601 3 @ ?~08
387 26205 =1 25 C?3 4@ 505 @ 5 ;?2s -91 6=8 05s21 2-9=?>-913 42~0@ 171 @ :29-3 425=72142>~2C , ?3 4@ 55 2:3
388 @ 9?;s27=33 403 * 1 4 5 1 677764 1 6.660?>s205 5 =623 403 63 42 08 ~21 0 * 1 :9?5 @ 5 3 5-1 9608 85 =5 23
389 59~* 1 725 =7795 23 403 * 1 3 4 2 1 9 64 2 1 * 1 6 66. 6752-91 2;34271 90@ 8 @ 3 }5 70:2 6 6 @ 50>@ 1 2:371
390 9>=:39-71 90@ 8 @ 3 }5 70:25 * 1 6 * 1 6 * 1 6. 679623 @ 625 :0?} 28 262?3 01 }22?34 2 1 * 1 @ 3@ 5:9?2?@
391 2?33 9>2?93 2}4 1 ?93@ ?>@ :03 @ ?~3 42@ ?>2t 7=1 3 421 ;s2=5 23 4293 4>2?93 03 @ 9?5 C5@ ?5 2:3 @
392 9?;s2@ ?3 1 9>=:28 3 1 03 @ 9? 9?3 4271 90@ 8 @ 3 }5 70:2 6 6 752-91 2;@ 3@ 5:9?2?@ 2?33 9@ ?3 1 9>=:2 ?
393 N & % ? , !?!? +, &@ +, ? , @ + ! % (0

394 .1 (& STUVW XW YVZ[\]^_]`ab cd aeafgd hijkh h]^l]md `]elj_]f agncb
395 kopq rse _]n]kh cg klb]htku] 4 4 l]d em_]vd g]u^tg avcu^af_]n]kh
396 cg klb]htku]h
397 f agl`]gjtad e^? , , ? N , !?!? , 4 ? N 4 @ 4 w 6, H 2 4 H 896 @A6B72 I J, %,%, 0= , &%-%' #, %2 A &%, %? ,
398 % % ' 2 < , # %0-% ' C & ' %K# ' \$ % &%-%' #, % 1 7L&%' \$ ' ? , .%L&%, %-<IM N%# %/%&% %C, '\$= ,
399 &%, ' -:\$ #%O 1 2 4 5 677764 185 64 1 , %\$ ' .% &%-%' #, %P QR
400 [] ^ _] `abcdeff geehij kf l iminol p qrsp pefteul hemtrf gen iovkj swxyz{ } n f ge~iml f l impingeio evso ef okef
401 gemf gen sl ool ~einpkeo ge ueO n iof ge mimmeusf l hesrin km~f l imO2 l pul hemtrf gen iovkj s O #? E O2 5
402 1 -'
403 , /-0 0 0 -*+ , 1 -+ .) *+) :-; < 01= 6 9 > 7 9? " 6 7?! 9 "73 6 ?" 6 798"! 6 9@9 99" 9A
404 F9K "6 7 9799393L> 6 9@6 397 " 987@9M6 93F7"9N 78 6 7 + O"73P97 976 798"! 6 9F9K "6 7 96 798"! 6 9
405 G
406 59 9QI6 @93L R97 9 " 96 7 9 @"!77" K6 "?9 6 89 "89 "6 7 89 9F" 736 7 9"9 (0=, 6(0I, L STUTV ; < =6 3
407 >?@AB9 C DEF:GAHEI FG 9 E: JKLD! : < = > ? ? ? > < @A= BCD @A= : ; < @ > E @ F< @ GHIB 4 8
408 9 9 4 4 8 9 4 5' (&'J % 8 9 9 % K1 L I % 8 % 8 9 % 91K1 L I % 8 % 8 9 % K1K1 &'(8 M N2\$ \$ # 2 1 122!" #
409 * \$-J3 * \$ O, \$ \$ 2 \$5 7 8 9 9 7 * \$)* !2+, 12-3 #" 5 7 8 9 9 7 P5 % 7 8 9 9 7 Q R % S 8 T 0123 2 5 % 7 8 9 9 7
410 5 % , /-0 0 0 -*+ , -+ .
411 / % 12! " # \$ %&&&%#! ' () *+ , , -+ . , /-0 0 0 -*+ , -+ . / 3 4 % 567%(& 8 45 12829 : " # \$ %&&&%#
412 : '67%;67%<% 62726=3 45>6?" # \$ % % # @ \$ ' %&&&% " # \$! % # @ ! ' A 3 45 1225B5 12528 C6 2) *+ , ,
413 -+ .
414 , /-0 0 0 -*+ , -+ .
415 / " D'3 8E3 6 2 56 EC528C6 2) F " D ' %D GH F %567%<%3 72445 1228 C6 89 282?I F %H F AJ126 2) F
416 " D '6 K + , L -+ . : " # \$: ' % ;67%<% 567%(" ~^7' ??6 7 9 25 9 1 6 9 1 6 9 2 172 65 1235 9 6 7 65 9 2 1
417 69 2 172 6 1 1 6 5 9 615 9 1 6122 1 *+ , -+ . / 0 / ,123,1. 0 + 430 .5-5+ 5670 + / 3. 734+ / 0 / 7.65+ 8706,97;/
418 0 <5. / 1=: 7 65+ 0 / 1=5: 7675. 4+ 7519-+ ,>/ 97.? ,+ 64: 5.? ,+0 <7? 5/ +-+ / 37.,?-0 / ,1.3,10 + 530
419 .519 / 1>7. 0 ,+<79=/ 1=.0 + 50 7=/ 7. @*+ , -+ . / 0 / ,1A-+ ,>/ 97.517. 0 / 650 7,?0 <7-5+ 5670 7+ .,? 0
420 <7/ 10 + ,94379-5+ 5670 + / 36,97: .0 <+ ,4=<+ 75: / B50 / ,1.,?+ / . 8C5. . 70 . @ D730 / ,1E3,10 5/
421 1.6,97: .,?/ 13,6-: 70 7F1513/ 5:65+ 870 . / 19/ . 3+ 70 7-+ ,G5G/ : / 0 C . -537@H<7,+ 762A=/ >7.53,6-: 70
422 797. 3+ / -0 / ,1,?5: :65+ 0 / 1=5: 7675. 4+ 7.714/ >J 5: 7100 ,0 <7,+ / =/ 15:,17@H<7,+ 762K7. 0 5G: /
423 . <7.? ,+ 64: 5.? ,+G,0 <0 <7: ;7+519 4-7+: / 6/ 0 .,?0 <7/ 10 7+ >5:,?1,1J 5+ G/ 0 + 5=7-+ / 37.? ,+0
424 <77>,: 40 / ,1,?+ / . 8C5. . 70 .