



2015

2016-013

2016 04

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.....	163

4G		3G WLAN LTE Long Term Evolution TDD-LTE FDD-LTE 4G
		Transmitter Optical Subassembly TOSA Receiver Optical Subassembly ROSA
OSA		Optical Subassembly
TOSA		Transmitter Optical Subassembly
BARREL		850NM TOSA
		2015 1 1 2015 12 31

			300394

	4 C 303

	5		2015 2 17 2018 12 31

	2015	2014	2013
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2015 2015 OSA

BARREL

	28.13%
	162.3% 3
	87.64%
	74.44%
	21.08% 18.14%

9

4

2015

2015

2015

23,703.09

18.14%

8,750.7 ,

17.74%

2015

3,112.61

13.13%

41.72%

916.28

40G

1,482.75

6.26%

66.58%

592.66

2015

399.11

1.68%

31.65%

95.95

2015

-348.66

-1.47%

193.79%

230

2015

10,326.56

16.45%

2015

10,333.09

72.26%

2015	-28,792.81	
7,018.24		22,200
404.02 ;		
2015	24,834.36	28,551.36

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	2015		2014		
	237,030,890.85	100%	200,643,770.10	100%	18.14%
	236,838,790.02	99.92%			

	236,838,790.02	87,394,366.82	63.10%	18.10%	17.74%	0.15%
	231,662,244.07	85,441,651.86	63.12%	19.70%	19.02%	0.21%
	203,385,637.05	80,192,128.68	60.57%	23.77%	21.64%	0.69%
	33,645,253.80	7,314,872.57	78.26%	-7.37%	-12.88%	1.37%

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			2015	2014	
			18,695.77	14,823.55	

7

8

	86,035,673.81
	36.30%

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1		28,331,692.48	11.95%
2		24,108,694.42	10.17%
3		17,580,952.60	7.42%
4		8,391,145.19	3.54%
5		7,623,189.12	3.22%
	--	86,035,673.81	36.30%

	32,968,520.64
	69.04%

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	-3,486,613.18	-1,186,755.23	193.79%
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	37,170,000.00	16,548,000.00	124.62%
	248,343,586.30	-16,548,000.00	
	64,474,927.43	7,703,005.68	737.01%

3Bt0M29hBAsi%—f#Ÿe6%00

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21.24%

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\$0,4EE48nE30A1D5dSFBcDdSO5dS8MzR1Ps\$0

	0.00		0.00			
	222,000,000.00	31.38%			31.38%	
	9,923,412.76	1.40%	713,469.99	0.21%	1.19%	

10%

			45,000,000	98,615,458.55	63,380,651.35	58,255,734.27	2,660,239.20	2,354,182.82

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2016

OSA

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2016

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2016

2015

4G

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28,557

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70,742.44

104.98%

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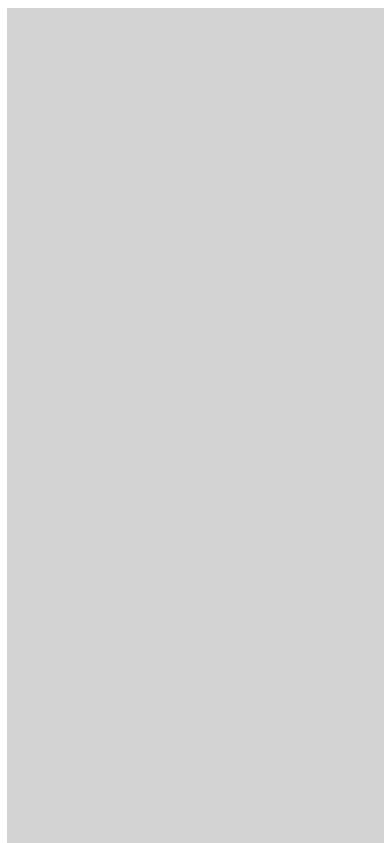
2015 04 08			http://irm.cninfo.com.cn/
2015 08 12			http://irm.cninfo.com.cn/
2015 11 19			http://irm.cninfo.com.cn/
2015 12 01			http://irm.cninfo.com.cn/

2015 4 23	2014	2014
74,340,000	10	5
128,438,019.00		
2015 5 12	2014	2015 5 21

10	0
10	5.6
10	15

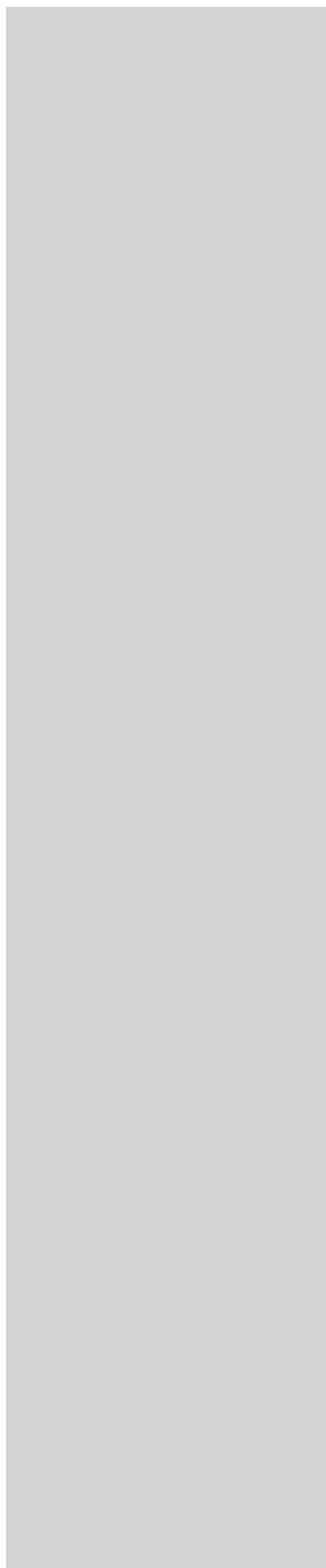
			2015	103,265,623.65
			102,286,949.25	10,228,694.93
			165,608,019.00	
			2014	37,170,000
			220,496,273.32	2015
			10	5.6
				41,630,400
			10	15
				111,510,000
				185,850,000
			178,865,873.32	

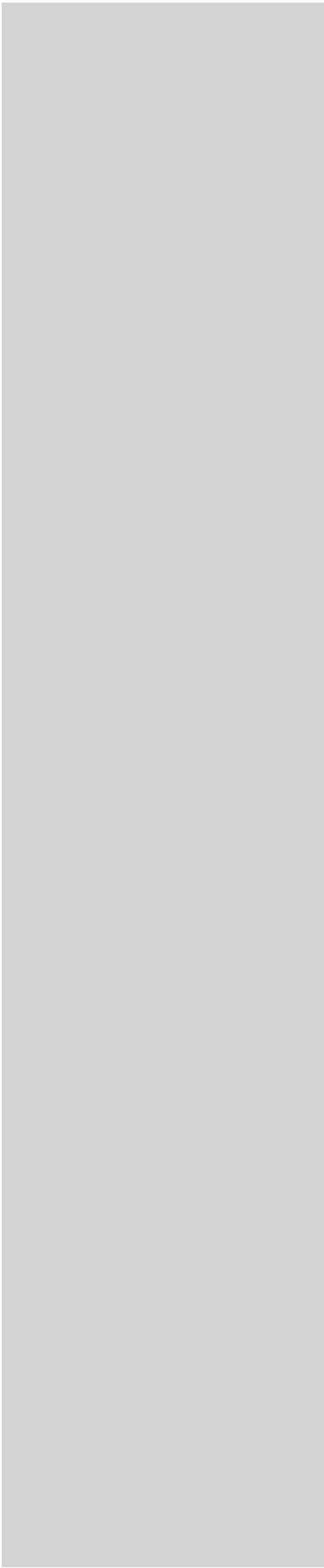
				2015 01 31		
			25%	2015 01 31		



				2015 01 31		

[illegible]





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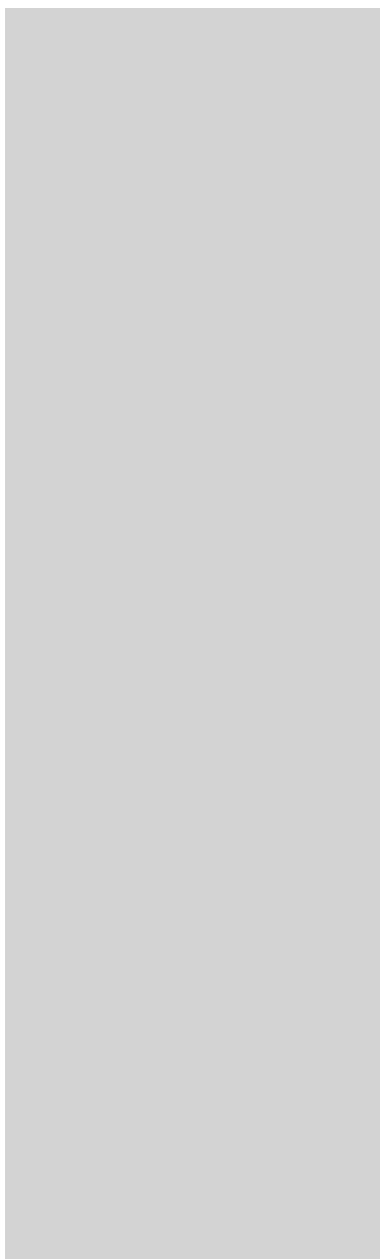
2% a b

b

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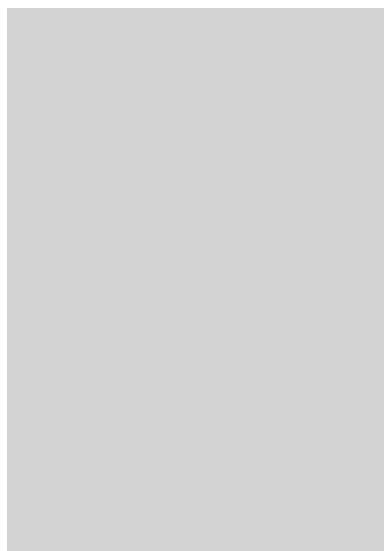


[illegible]

Downloaded from <https://www.cambridge.org/core>. University of Cambridge, on 02 Jun 2020 at 10:00:00, subject to the Cambridge Core terms of use, available at <https://www.cambridge.org/core/terms>. <https://doi.org/10.1017/9781315344430.006>

[illegible]

			1	2015 01 31		
			2			
				2015 01 31		
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					2015 07 09	

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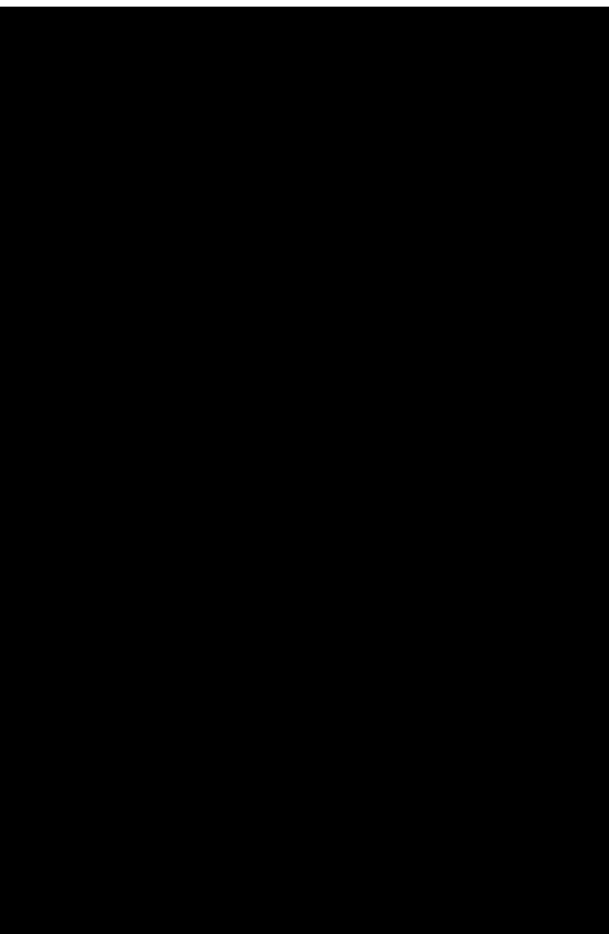
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				05 04	05 29	4.8%					
			10,000	2015 11 17	2015 12 21	3.15%	10,000	0	29.34	29.34	29.34
			10,000	2015 08 07	2016 02 07	4.15%	0	0	209.21	0	0
			9,000	2015 12 24	2016 06 24	2.6%-3.5 %	0	0	137.62	0	0

1

	59,100,000	100.00%						59,100,000	79.50%
1									

	1,250,000			1,250,000		2016-2-17
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			148,344	148,344		2016-2-17
			148,344	148,344		2016-2-17
			148,344	148,344		2016-2-17
			1,569,852	1,569,852		2016-2-17
	59,100,000	3,350,000	3,350,000	59,100,000	--	--

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	2015 02 10	21.41	15,240,000	2015 02 17	15,240,000	

[2015]183

1524

21.41

335

5910

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		1.35%	1,000,000	0	1,000,000	0		

5	0402,700

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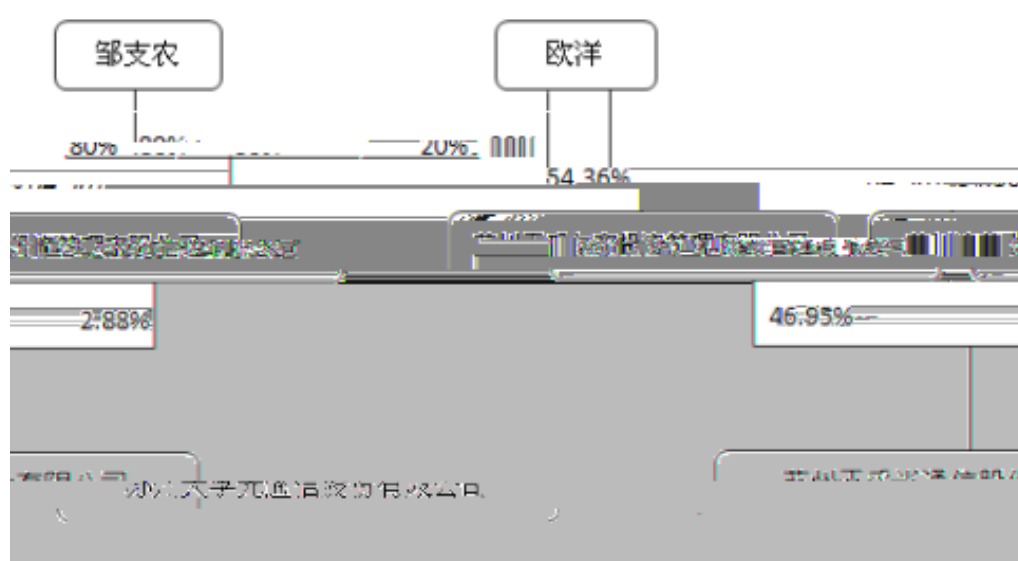
1010

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		20050608	77469808-6	

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4		1974	10						2001		
6	2003	6				2003	7	2006	5		
			2006	6	2007	3			2007		
4	2010	2				2010	3	2011	6		
		2011	5		2011	9					
5			1983	10							
	2004	8		2009	6				2009	9	
	2011	9									
	6		1974	12				1995	7	1999	3
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	2009	8									

2011

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	368,766
	4,376,747.40

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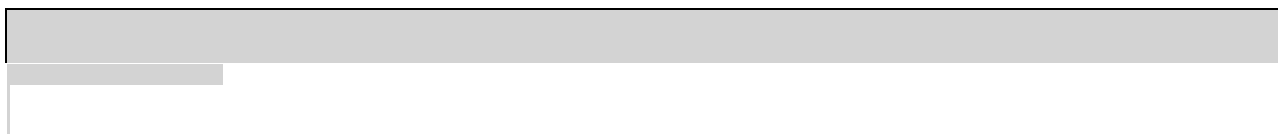
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2015		100.00%	2015 01 06	2015 02 02	http://www.cninfo.com.cn/
2014		71.15%	2015 04 23	2015 04 24	http://www.cninfo.com.cn/

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	100.00%	

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2015 12 31

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2015 12 31

	140,740,463.16	75,005,535.73
	0.00	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00
	57,871,888.44	54,163,095.24
	82,218,692.76	67,903,641.56
	1,870,729.30	7,319,675.64
	0.00	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00

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	236,208,431.01	180,341,502.29
	677,142,048.77	325,532,838.82
	0.00	0.00
	677,142,048.77	325,532,838.82
	707,424,429.72	345,113,633.91

	0.00	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00
	7,692,493.17	7,863,852.21
	0.00	0.00
	0.00	0.00
	868,777.78	0.00
	660,853.20	550,555.30
	8,256,852.36	527,748.99
	160,253,405.00	86,648,553.16
	701,157,762.04	325,233,864.64
	0.00	0.00
	0.00	0.00
	0.00	0.00
	0.00	1,451,734.65
	28,446,493.26	4,700,707.44
	85,247.07	166,590.42
	3,346,549.68	2,293,348.62
	6,681,032.57	5,822,127.98
	0.00	0.00
	0.00	0.00
	658,548.38	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00
	39,217,870.96	14,434,509.11

	0.00	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00
	510,000.00	0.00
	0.00	0.00
	0.00	0.00
	510,000.00	0.00
	39,727,870.96	14,434,509.11
	74,340,000.00	59,100,000.00
	0.00	0.00
	0.00	0.00
	0.00	0.00
	332,923,679.40	62,650,093.10
	0.00	0.00
	0.00	0.00
	0.00	0.00
	33,669,938.36	23,441,243.43
	220,496,273.32	165,608,019.00
	661,429,891.08	310,799,355.53
	701,157,762.04	325,233,864.64

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	237,030,890.85	200,643,770.10
	237,030,890.85	200,643,770.10
	0.00	0.00
	0.00	0.00
	0.00	0.00
	123,042,965.58	100,957,105.90

	0.00	0.00
1.	0.00	0.00
2.	0.00	0.00
3.	0.00	0.00
4.	0.00	0.00
5.	0.00	0.00
6.	0.00	0.00
	0.00	0.00
	103,265,623.65	88,675,340.99
	103,265,623.65	88,675,340.99
	0.00	0.00
	1.44	1.50
	1.44	1.50

2,354,182.82

1,838,533.73

4

	237,030,890.85	200,643,770.10
	103,206,747.89	83,530,297.35
	2,290,407.34	2,173,507.42
	3,189,074.41	2,664,250.82

	-3,480,111.52	-1,183,742.95
	807,525.11	229,361.43
	0.00	0.00
	4,040,273.98	0.00
	0.00	0.00
	116,986,205.24	98,551,502.45
	3,085,569.81	3,813,405.27
	1,174.36	0.00
	47,548.55	0.00
	258.55	0.00
	120,024,226.50	102,364,907.72
	17,737,277.25	15,154,575.57
	102,286,949.25	87,210,332.15
	0.00	0.00
	0.00	0.00
1.	0.00	0.00
2.	0.00	0.00
	0.00	0.00
1.	0.00	0.00
2.	0.00	0.00
3.	0.00	0.00
4.	0.00	0.00
5.	0.00	0.00

6.	0.00	0.00
	102,286,949.25	87,210,332.15
	0.00	0.00
	0.00	0.00

	41,817,174.71	32,840,276.50
	10,521,373.69	8,024,533.22
	149,897,086.49	148,873,907.22
	103,330,861.15	59,985,442.43
	320,000,000.00	0.00
	4,040,273.98	0.00
	14,000.00	0.00
	0.00	0.00
	200,000.00	0.00
	324,254,273.98	0.00
	70,182,396.50	34,698,932.87
	542,000,000.00	0.00
	0.00	0.00
	0.00	
	0.00	918,000.00
	612,182,396.50	35,616,932.87
	-287,928,122.52	-35,616,932.87
	285,513,586.30	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00
	285,513,586.30	0.00
	0.00	0.00
	37,170,000.00	16,548,000.00
	0.00	0.00

	0.00	0.00
	37,170,000.00	16,548,000.00
	248,343,586.30	-16,548,000.00

	542,000,000.00	0.00
	0.00	0.00
	29,871,235.44	918,000.00
	617,662,004.65	18,409,019.87
	-293,407,730.67	-18,409,019.87
	285,513,586.30	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00
	285,513,586.30	0.00
	0.00	0.00
	37,170,000.00	16,548,000.00
	0.00	0.00
	37,170,000.00	16,548,000.00
	248,343,586.30	-16,548,000.00
	728,602.50	-117,503.88
	63,805,863.25	7,437,947.17
	74,315,189.41	66,877,242.24
	138,121,052.66	74,315,189.41

7

	59,100,000.00	0.00	0.00	0.00	62,650,093.10	0.00	0.00	0.00	23,441,243.43	0.00	180,341,502.29	0.00	325,532,838.82

	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				

	59,100,000.00	0.00	0.00	0.00	62,650,093.10	0.00	0.00	0.00	43	

2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1ref162.98 640.18 f											

3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8,721,033.21	-25,269,033.21	-16,548,000.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			

2015 12 31

7,434

7,434

3,490

46.95%

320500400024569

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2014

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2014

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23

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50%

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12

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4

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13

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2

14

1

2

16

1

2

		20	5/10	4.50/4.75
		10	5/10	9.00/9.50
		5	5/10	18.00/19.00
		5	5/10	18.00/19.00
		5	5/10	18.00/19.00

3

90% 90% 75%

17

18

1

1

1

1

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23

24

1

2

3

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32

33

1

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2

2015 7 6

GR201532000580

15%

2015 9 25

GR201536000235

15%

3

1

	45,917.45	4,346.83
	139,434,545.71	75,001,188.90
	1,260,000.00	
	140,740,463.16	75,005,535.73

	1,260,000.00	
	1,260,000.00	

2

	0.00	0.00

3

4

1

	55,823,595.97	53,420,612.41
	2,048,292.47	

5.06%	67,903,641. 56
	67,903,641. 56

5.00%
10.00%
qt • y í±i•x êE@ êEqGî û ?U#Bp

4

37,539,403.09

43.37 %

1,876,970.15

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6

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	0.00	0.00
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2



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14

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2

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16

1

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2

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19

1

1.	32,802,630.04	58,231,186.13	2,546,363.76	1,431,467.78	5,109,201.62	100,120,849.33
2.	10,130,000.00	12,833,207.66	0.00	627,224.77	8,224,564.66	31,814,997.09
1	0.00	12,833,207.66	0.00	627,224.77	8,224,564.66	21,684,997.09
2	10,130,000.00	0.00	0.00	0.00	0.00	10,130,000.00
3	0.00	0.00	0.00	0.00	0.00	0.00
3.	0.00	0.00	0.00	85,000.00	0.00	85,000.00
1	0.00	0.00	0.00	85,000.00	0.00	85,000.00
4.	42,932,630.04	71,064,393.79	2,546,363.76	1,973,692.55	13,333,766.28	131,850,846.42



5

	9,802,083.33	

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1

	71,880,000.00	16,708,584.37	37,247,670.81	10,130,000.00		43,826,255.18	--	--				--
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3

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21

	0.00	0.00

22

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4.	0.00	0.00	0.00	0.00	0.00
1.	15,301,223.72	0.00	0.00	0.00	15,301,223.72
2.	15,643,859.12	0.00	0.00	0.00	15,643,859.12

0.00%

2

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0.00 6,267,370.44 0.00

	0.00	784,071.37	0.00		0.00	784,071.37		0.00
	0.00	14,827,479.12	0.00		0.00	14,827,479.12		0.00

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28

	0.00	893,600.00	24,822.22	0.00	868,777.78
	0.00	893,600.00	24,822.22		868,777.78

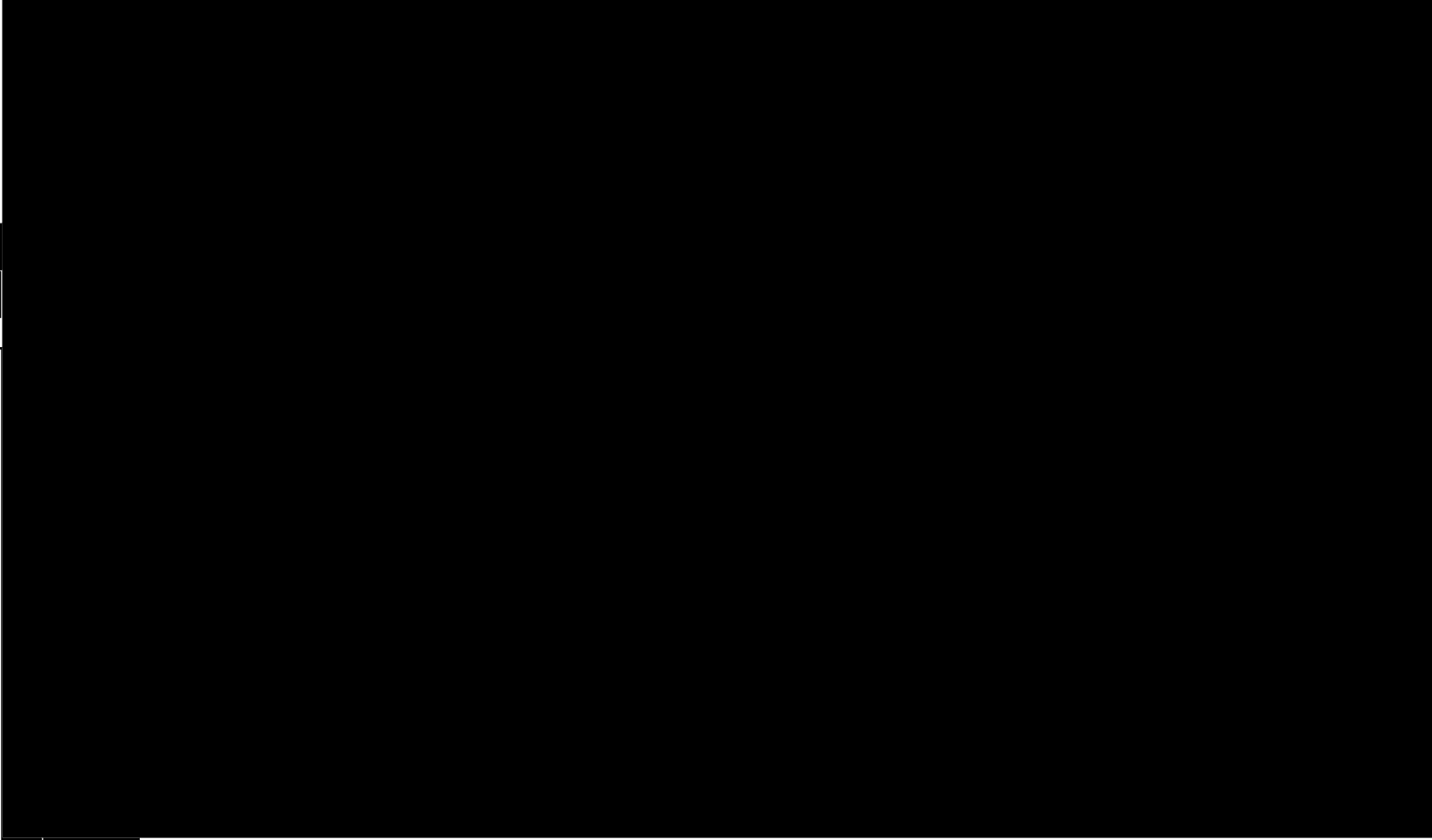
29 /

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	4,490,688.04	673,603.20	3,731,368.62	565,805.30
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31**1**

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38

	2,243,677.30	2,507,072.20
	5,058,555.54	3,389,028.23
	58,843.46	28,681.97
	168,660.66	187,044.29
	132,155.93	143,058.11

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	0.00	0.00

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		850,000.00	340,000.00		510,000.00	
		850,000.00	340,000.00		510,000.00	--

52

	0.00	0.00

53

		+					
	59,100,000.00	15,240,000.00	0.00	0.00			

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	180,341,502.29	116,935,194.51
+	0.00	0.00
	180,341,502.29	116,935,194.51
	103,265,623.65	88,675,340.99
	10,228,694.93	8,721,033.21

63

	1,510,799.63
	1,084,945.65
	615,346.29
	413,601.84
	366,410.61
	3,031,631.58

1,148,441.15
675,182.82
535,345.07
378,701.45
293,961.09
3,031,631.58

8,180,500.28
8,900,883.07
1,831,215.65

	66,119.27	49,550.56
		1,106,755.23

66

	831,525.11	270,861.43
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	258.55	0.00	258.55
	258.55	0.00	258.55

	218,855.75
	0.00
	0.00
	-460,871.50
	17,925,663.86

	200,000.00	0.00
	200,000.00	0.00

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		918,000.00
	0.00	918,000.00

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	0.00	0.00

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	-915.81	0.00
	0.00	0.00
	0.00	0.00
	-728,602.50	117,503.88
	-4,040,273.98	0.00

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	139,480,463.16	75,005,535.73
	45,917.45	4,346.83
	139,434,545.71	75,001,188.90
	0.00	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00
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	0.00	0.00
	0.00	0.00
	139,480,463.16	75,005,535.73
	0.00	0.00

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	1,260,000.00	
	0.00	
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	0.00	
	1,260,000.00	--

77

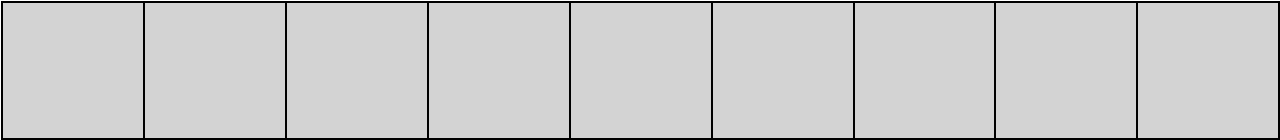
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	700,616.66	6.4936	4,549,524.34
	0.00	0	0.00
	0.00	0	0.00

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	41,630,400.00

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1	94,168.33	4,708.42	5.00%
1 2	718,000.00	71,800.00	10.00%
2 3			30.00%
3			100.00%
	812,168.33	76,508.42	

4

	718,000.00	918,000.00
	94,168.33	87,984.26
		22,697.89
	812,168.33	1,028,682.15

5

		718,000.00	1-2	88.41%	71,800.00
		94,168.33	1	11.59%	4,708.42
--		812,168.33	--		76,508.42

1

6

1

	915.81	
	3,139,838.00	
	4,040,273.98	
	22,334.45	
	1,080,504.34	
	6,122,857.90	--

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	17.40%	1.44	1.44
	16.37%	1.35	1.35

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