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+

2020		1-9	2019		2018		2017	

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2

78

16.35%

1

13

32

3

FCC

1

1 FCC

FCC

2 FCC

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5

3-3-6

3-70nm

7-40nm

130-350cm²/g

0.2-1.5cm²/g

2

	2020 1-9	2019	2018	2017
	25,231.28	34,379.47	34,387.24	26,660.70
	2,972.09	4,226.47	7,067.99	5,422.47
	2,663.23	5,123.99	7,140.94	5,599.88
	2,258.28	4,285.93	6,374.64	5,019.32
	2,258.28	4,285.93	6,374.64	5,019.32

2020 1-9

2020 1-9	2019	2018	2017
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= /

	2020 1-9	2019	2018	2017
	2,258.28	4,285.93	6,374.64	5,019.32
	3.44%	8.30%	21.14%	19.62%
	452.24	572.51	464.27	149.83
	1,806.04	3,713.42	5,910.37	4,869.49
	2.75%	7.19%	19.60%	19.04%
	0.23	0.48	0.85	0.67
	0.18	0.41	0.79	0.65

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2016

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FCC

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56.91% 60.32% 53.43% 58.98%

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3-3-11

22,406.96	22,432.51	26,073.30	18,854.30
		84.67%	66.14% 77.65% 75.93%

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5

6

7

1

51.50% 52.42%

50.45% 53.44%

2

8,160.82 12,802.52

9,477.80 8,607.27 26,660.70

34,387.24 34,379.47 25,231.28

30.61% 37.23% 27.57% 34.11%

3

40.64% 40.14% 36.44% 32.85%

	2020	1-9	2019	2018	2017
--	------	-----	------	------	------

	32.76%	36.98%	40.24%	40.59%
	57.38%	64.34%	66.94%	67.37%
	27.04%	32.13%	36.99%	36.00%
	53.74%	46.88%	31.44%	57.83%
	38.75%	13.67%	33.18%	47.36%
	32.85%	36.44%	40.14%	40.64%

2017 -2018

2019 2018 3.7 2019 FCC

2020 À 2021

2019 3.59 1

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2010 11 15

2013 9

25 2016 12 2 2019 11 28

GR201937100531

15%

					2016-2018								
2019-2021													
					FCC								
13%													
5													
1													
					26,462.37		33,916.74		33,580.68				
24,830.80		FCC				19,744.72							
27,837.68		24,204.45		16,700.30									
2019		FCC		2018		3,633.23							
FCC				2020		1-9		FCC					
		2019						FCC					
2019													
FCC													

	7,474.45	9,130.16	8,668.64	6,830.04
	151.28	1,700.25	1,601.22	1,669.30

2020 7,474.45 151.28

3 2020 FCC

2020
FCC 2020

2020 1-9 FCC
1,398.43 2019 2,148.01 34.90%
2020 1-9 164.36 /

2020 4 FCC

2020 FCC

4 FCC

FCC

FCC

2

	2020	1-9	2019	2018	2017
		32.76%	36.98%	40.24%	40.59%

	2020	1-9	2019	2018	2017
		57.38%	64.34%	66.94%	67.37%
		27.04%	32.13%	36.99%	36.00%
-FCC		28.80%	31.94%	37.78%	37.36%
-		40.15%	28.19%	33.50%	40.36%
-		52.07%	50.86%	16.86%	-35.21%
		32.85%	36.44%	40.14%	40.64%

2019 2018 3.7 2020 1-9
2019 3.59 FCC

1

2019 2020 1-9

	2020	1-9		2019
		18,017.16	N/A	18,986.49
/		1,937.60	-5.30%	2,045.95
/		825.73	13.18%	729.59
		57.38%	-6.96	64.34%

2020 1-9 1,937.60 / 2019
5.30%

2020 1-9 825.73 / 2019
13.18%

	2020	1-9	2019	2018	2017
/		1,953.90	2,053.31	2,029.81	2,109.17

/	662.24	692.47	671.07	688.18
/	1,291.66	1,360.84	1,358.74	1,420.99
	66.11%	66.28%	66.94%	67.37%

2 FCC

FCC 37.36% 37.78%

31.94% 28.80% FCC

	2020 1-9	2019	2018	2017
/	12,889.99	13,683.06	14,480.74	14,496.48
/	9,178.06	9,313.16	9,010.06	9,080.70
-	5,440.68	5,254.49	5,134.98	5,229.57
-	485.93	656.58	581.2	562.1
-	2,261.05	2,290.11	2,193.76	2,167.56
-	990.41	1,111.99	1,100.12	1,121.47
	28.80%	31.94%	37.78%	37.36%

2019 FCC 2018 5.84

2019 FCC

2020 1-9 FCC

2019 3.14

FCC 2020 1-9 2019

793.07 / 5.80%

FCC

FCC

2019 FCC

119.51 / 75.38 / 2.33% 12.97%

FCC

FCC

2019	2020	1-9	FCC		
	119.51	/	186.19	/	2.33% 3.54%
			132.55	/	149.79 /
		2019	3		
					700 /
2019	3				

	2020	1-9	2019	2018	2017
		1,283.17	1,967.04	2,114.88	1,527.48
FCC		12,956.02	17,689.35	19,223.94	13,620.35
/		990.41	1,111.99	1,100.12	1,121.47

2020 1-9 FCC 990.41 /

2019 121.58 /

a

b 36.86 28.45 /

c 109.95 84.86 /

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2019

2018

2019

2019		342	808.96
2020		432	1,033.25

2020 7

189 FCC 18,000

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2020

2020.06	69	2020 6 29	2020 8 13
2020.10	60	2020 10 13	2020 10 30 9394.07 0.71997 r

			FCC	
FCC				
3	2020	FCC		
			2020	
	FCC			

	2020	2020 1-9	2019	2018	2017
	10,059.52	8,044.60	8,645.90	9,097.76	7,578.38

		28,480 /		
		FCC		
			FCC	
	2021 1 15			
4		FCC		
		FCC		
	FCC			
FCC				
			FCC	

FCC

FCC

FCC

2020

9.1 /
33

3.4

FCC

3% 4%

4.5

15 FCC

9

5 FCC

2019 2020 1-9 FCC

119.51 / 186.19 / 2.33% 3.54%

132.55 / 149.79 / 2020

10-12

2020

3-3-23

1-9	FCC	268.47
/		
6	2020	2020
	2021	2020
7		
2021	1 15	FCC 1,674
		12,810.2 / 2020 1-9
		12,358.94 / 451.26 /
4		
2018	2019	2020

	2020	2019	2018
	32,461.76	34,379.47	34,387.24
	22,390.89	21,852.51	20,583.80
	10,070.87	12,526.96	13,803.44
	31.02%	36.44%	40.14%
	7,161.92	8,385.73	6,307.57
	145.77	930.38	76.70
	392.69	32.86	3.75
	2,757.73	4,285.93	6,374.64
	2,757.73	4,285.93	6,374.64
	767.73	572.51	464.27
	1,990.00	3,713.42	5,910.37
	99,903.45	92,168.92	65,386.92
	33,240.85	27,274.92	32,599.38
	66,662.60	64,894.00	32,787.54
	3,017.15	5,740.83	5,065.68

2020	2020	2019	2020
32,461.76	2019	1,917.71	5.58% 2020
2,757.73	2019	1,528.19	35.66% 2020
1,990.00	2019	1,723.42	46.41%

2020				
1				
2019	2020			
4,285.93	2,757.73			
	3,713.42	2,274.60		
2				
2018	2019	2020		
6,374.64	4,285.93	2,757.73	4,472.77	
			32,000.00	
3.00%				
		960.00		
3				
2018	2019	2020		
29.59%	33.27%	49.86%		
		2020		
	5,083.96		2018	2019
2020			5,065.68	5,740.83
3,017.15	13,823.66			6,374.64
4,285.93	2,757.73	13,418.30		

6

5,573.32 12,078.68

3,999.64 5,130.91

4 / FCC

3 / FCC

1 2020 9 30

			2020.9.30	2019.12.31	2018.12.31	2017.12.31
1			274.36	226.80	-	-
2			109.78	60.26	-	-
3			791.6	755.09	545.34	-
4			135.04	-	-	-
5	4 / FCC		399.46	-	-	-
6	3 / FCC		292.77	113.15	-	-
7			163.08	-	-	-
8	-		1,333.87	-	-	-
9			1,382.06	1,247.2	-	-
			4,882.02	2,402.50	545.34	-

2

							2020 12 31
1		290.00	274.36	94.61%	274.42	2020.11	2020 11
2		180.00	109.78	60.99%	-	2021.05	
3		827.00	791.60	95.72%	-	2021.06	
4		1,546.00	135.04	8.73%	-	2021.03	

							2020 31	12
5	4 / FCC	56,169.00	399.46	0.71%	-	2021.09		
6	3 / FCC	17,956.00	292.77	1.63%	-	2022.04		
7		245.00	163.08	66.56%	-	2021.01		
8	-	1,860.00	1,333.87	71.71%	-	2021.06		
9		2,400.00	1,382.06	57.59%	-	2021.06		
		81,473.00	4,882.02		274.42			

3 2020 9 30

		2020	2021	2022	2023	2024	2025	2026
	2020.11	2.34	28.13	28.13	28.13	28.13	28.13	28.13
	2021.5	-	10.19	17.46	17.46	17.46	17.46	17.46
	2021.6	-	40.11	80.22	80.22	80.22	80.22	80.22
	2021.3	-	112.47	149.96	149.96	149.96	149.96	149.96
4 / FCC	2021.9	-	876.75	3,507.00	3,507.00	3,507.00	3,507.00	3,507.00
3 / FCC	2022.4	-	-	667.33	1,001.00	1,001.00	1,001.00	1,001.00
	2021.1	-	14.52	15.84	15.84	15.84	15.84	15.84
-	2021.6	-	90.21	180.42	180.42	180.42	180.42	180.42
	2021.6	-	58.20	116.40	116.40	116.40	116.40	116.40
		2.34	1,230.58	4,762.76	5,096.43	5,096.43	5,096.43	5,096.43

4 / FCC

/ FCC

		2020	2021	2022	2023	2024	2025	2026
4 / FCC	2021.9	-	828.00	3,313.00	5,370.00	7,285.00	7,466.00	7,643.00
3 / FCC	2022.4	-	-	746.00	1,727.00	2,334.00	2,334.00	2,334.00
		-	828.00	4,059.00	7,097.00	9,619.00	9,800.00	9,977.00

/ FCC

2021 9 / FCC

2022 4

2021 2023

828.00 4,059.00 7,097.00

2024

9,000

2020

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FCC	2	/	FCC
	2017		2020

FCC

FCC		2020	2019	2018	2017
		20,000.00	20,000.00	20,000.00	20,000.00
		21,464.96	20,280.38	20,035.36	16,039.73
		107.32%%	101.40%	100.18%	80.20%

$$\frac{2}{\sqrt{3}} \frac{1}{\sqrt{1 + \frac{1}{3} \left(\frac{1}{\sqrt{3}} \right)^2}} = \frac{2}{\sqrt{3}} \frac{1}{\sqrt{1 + \frac{1}{9}}} = \frac{2}{\sqrt{3}} \frac{1}{\sqrt{\frac{10}{9}}} = \frac{2}{\sqrt{3}} \frac{3}{\sqrt{10}} = \frac{6}{\sqrt{30}} = \frac{2\sqrt{6}}{\sqrt{5}} = \frac{2\sqrt{30}}{5}$$

FCC 4 /

FCC

FCC

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2019

FCC

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2020 1-9

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		56,169.00	32,000.00

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