1)	5	surce	55	DF	MS	F	ρ
		Д	0,322	1	(0.322)	0.0357	70.25
	4	В	80.554	[2]	40-271	Y. 462/	0.075 C P- 100
		AB	72.348	[2]	[21.174]	[2.346]	0.10 Kp-value Co
		Error	108.327	12	[9.027]		
		Total	231.551	17			

a) Fill in the blanks

$$q = 1 = 1 = q = 2$$

DOF for Emr:

$$00f \text{ for emor:}$$
 $ab(n-1) = 2(b)(n-1) = 2bn - 2b = 12$

$$00F for AB:$$
 $(a-1)(b-1) = 1+2 = 2$

$$MSA = \frac{SSA}{A-1} = \frac{0.322}{1} = \frac{0.322}{1}$$

$$MS_{AB} = \frac{SS_{AB}}{(a-1)(b+1)} = \frac{4a.348}{2} = [21.174]$$

$$MS_E = \frac{SS_E}{ab(n-1)} = \frac{108.327}{12} = \frac{9.027}{12}$$

$$F_{0A} = \frac{MS_A}{MS_E} = \frac{0.322}{9.027} = \begin{bmatrix} 0.035 & 7 \end{bmatrix}$$

$$A = 7$$
 $V_1 = 1$ $p-Value > 0.25$
 $B = 7$ $V_2 = 12$ 0.052 $p-Value < 0.05$

0-19/4/405

1000 Many levels in Factor 13? [b=3] levels
c) How many replicates?

$$b=3$$
 and $2bn=18$ (see part A)
 $5.6 = 18$ $n=18=3$ $n=3$

d) What (onclusions?

Factor B significantly affects me response, where A / AB do not for we don't have enough evidence to say they do)

Sana.	55	DF	MS	F	P
			E COLL	Set.	
6	(95.774)				
	91.		ESH		6.55
,					
_					

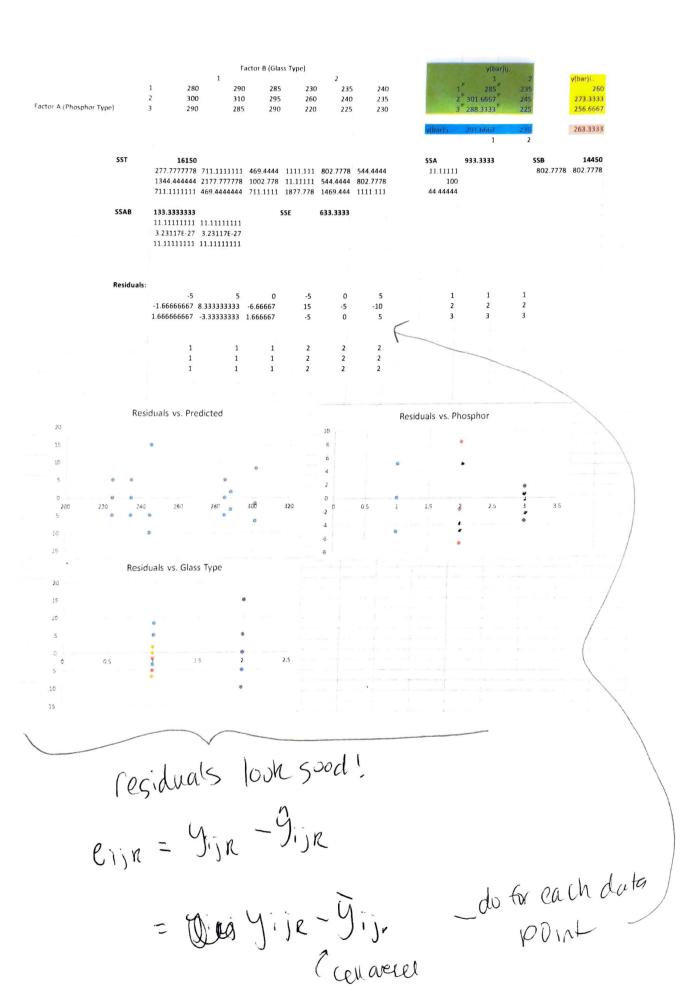
l		11_

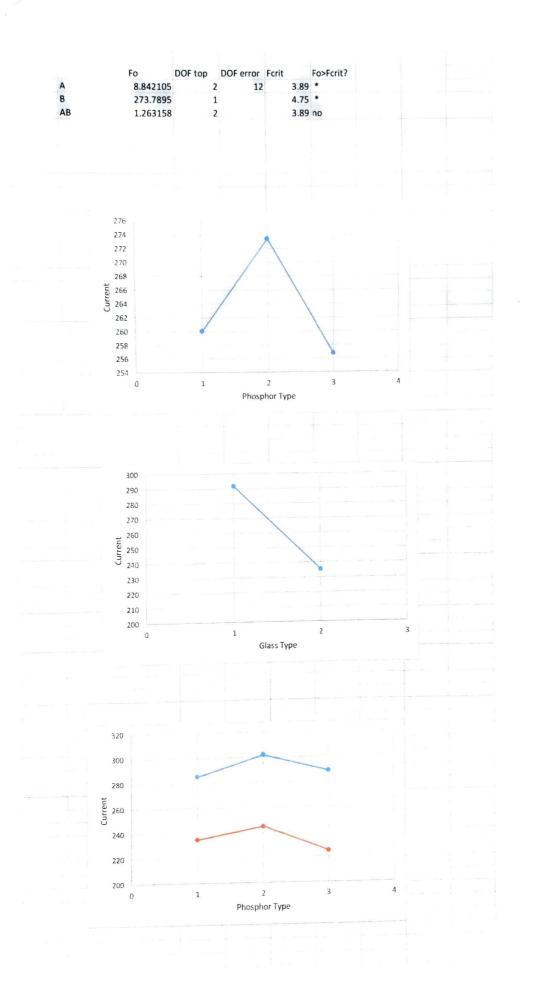
$$5.3 \quad SSAB = n \quad \begin{cases} 3 \\ 5 \\ 7 \\ 7 \end{cases} (g_{13} - g_{1..} - g_{1.} + g_{1..})^{2} \\ = 3 \left[(285 - 260 - 291.7 + 743)^{2} \\ + \text{ for all cells} \right] \\ SSAB = 133.3$$

$$SSE = SST - SSA - SSB - SSAB \\ = 633.3$$

Conclusions:

Glass type and phospher type both had a significant effect on cront necessary to obtain brighness level. There is not enough evidence to say there is a significant interaction between the two





Factor Information

Factor	Levels	٧	alu	ies
A	3	1	2.	3
В)	1	2	

Analysis of Variance

Source	DF	Adj SS	Adj MS	F-Value	P-Value
Model		15516.7	3103.3	58.80	0.000
Linear	3	15383.3	5127.8	97.16	0.000
A	2	933.3	466.7	8.84	0.000
В	1	14450.0	14450.0	273.79	0.000
2-Way Interactions	2	133.3	66.7	1.26	0.318
A*B	2	133.3	66.7	1.26	0.318
Error	12	633.3	52.8	1.20	0.318
Total	4.7		26.0		

