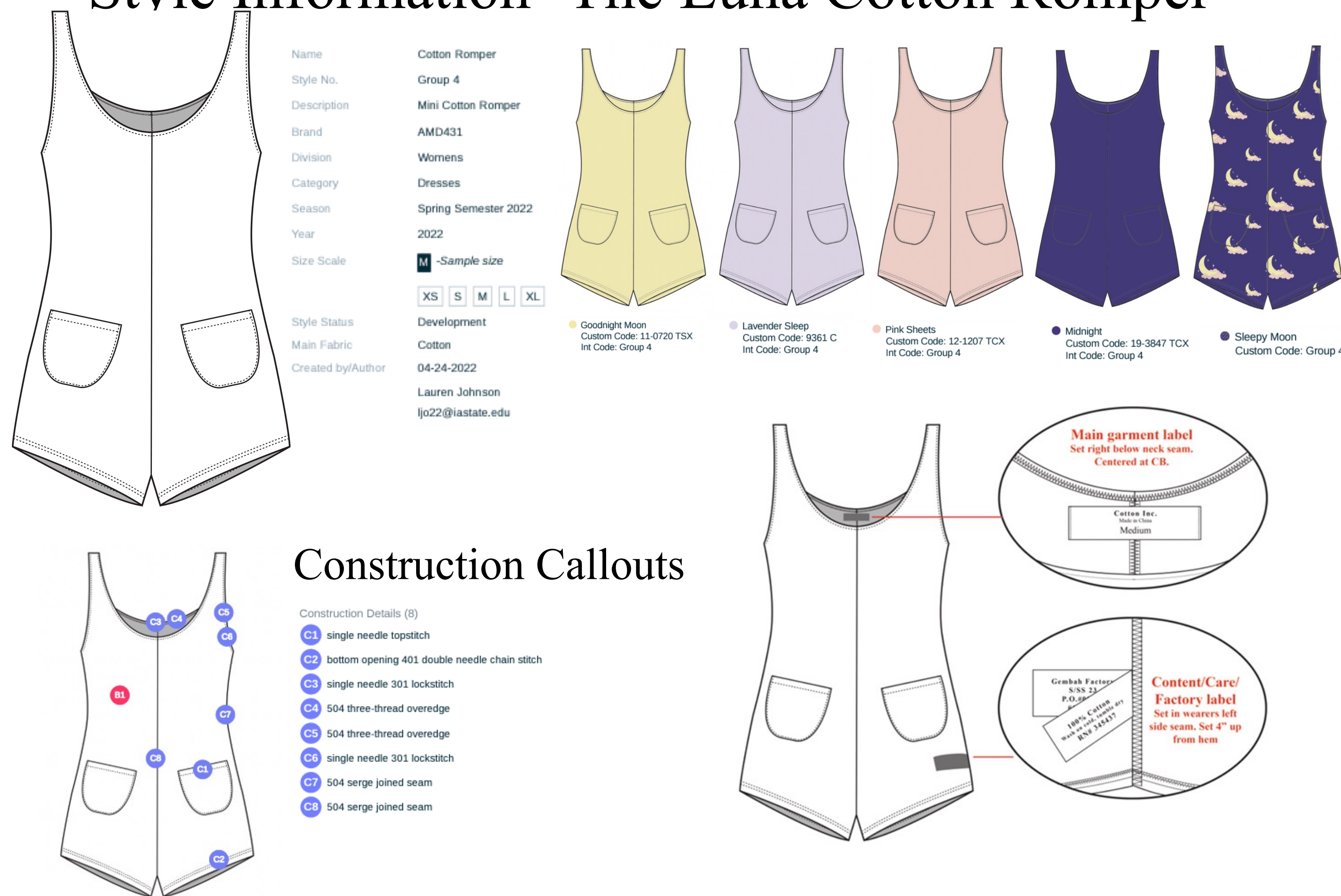


# Cotton Inc.

## Lauren Johnson & Julia Dunlavey, AMD 431 Spring 2022

### Style Information- The Luna Cotton Romper

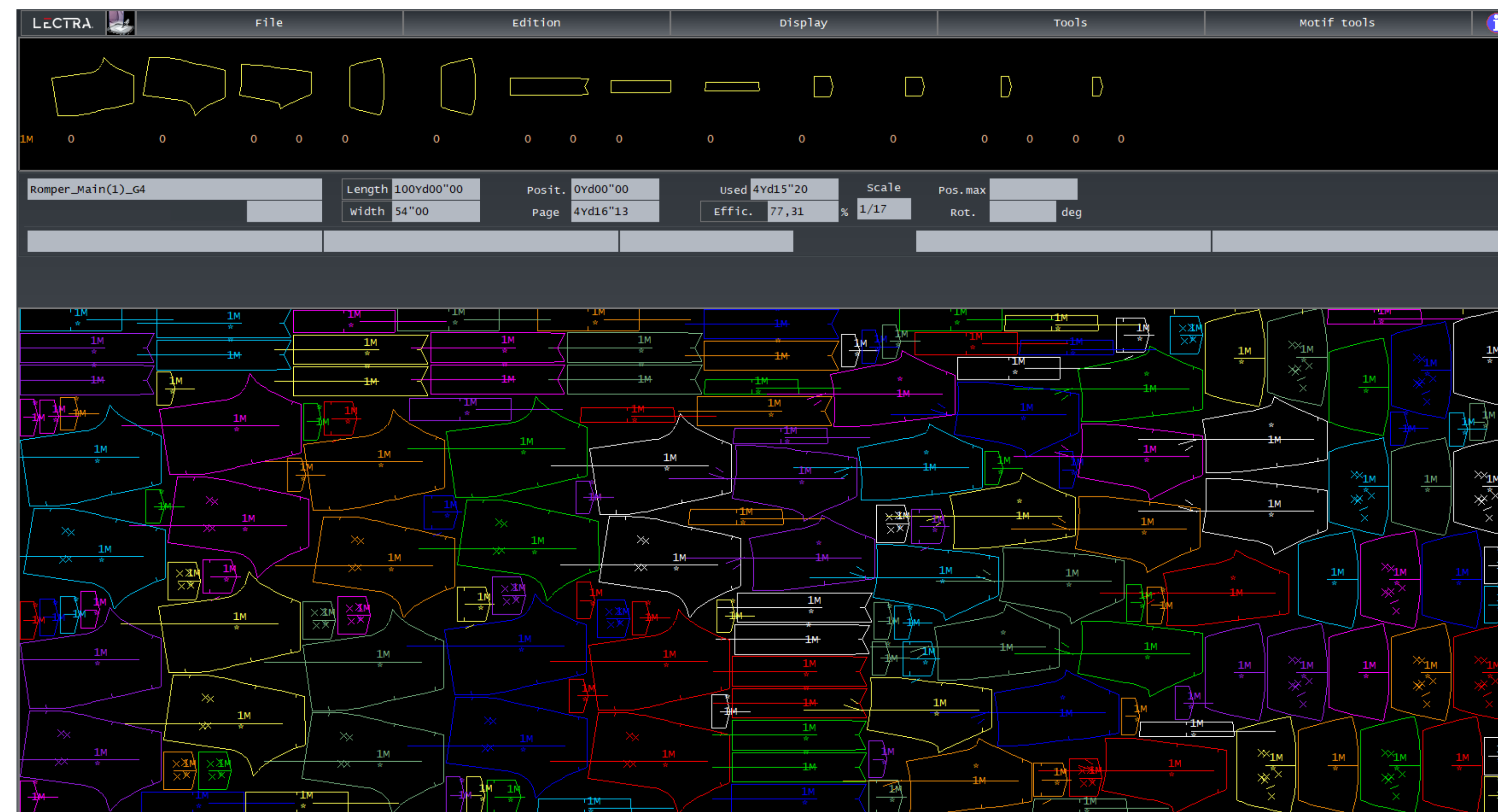


### Construction Callouts

### Bill of Materials (BOM)

COMPONENT	QTY	PLACEMENT	NOTES	PRODUCT	VARIANT	MAIN BODY	COMPONENT COLORWAY	VARIANT CODE	PRICE
						<b>Goodnight Moon</b> Custom Code: 11-0720 TSX Int Code: Group 4	<b>Goodnight Moon</b> Custom Code: 11-0720 TSX Int Code: Group 4	-	\$5.00
						<b>Lavender Sleep</b> Custom Code: 9361 C Int Code: Group 4	<b>Lavender Sleep</b> Custom Code: 9361 C Int Code: Group 4	-	\$5.00
						<b>Midnight</b> Custom Code: 19-3847 TCX Int Code: Group 4	<b>Midnight</b> Custom Code: 19-3847 TCX Int Code: Group 4	-	\$5.00
						<b>Pink Sheets</b> Custom Code: 12-1207 TCX Int Code: Group 4	<b>Pink Sheets</b> Custom Code: 12-1207 TCX Int Code: Group 4	-	\$5.00
						<b>Sleepy Moon</b> Custom Code: Group 4	<b>Sleepy Moon</b> Custom Code: Group 4	-	\$5.00
						<b>Goodnight Moon</b> Custom Code: 11-0720 TSX Int Code: Group 4	-	-	-
						<b>Lavender Sleep</b> Custom Code: 9361 C Int Code: Group 4	-	-	-
						<b>Midnight</b> Custom Code: 19-3847 TCX Int Code: Group 4	-	-	-
						<b>Pink Sheets</b> Custom Code: 12-1207 TCX Int Code: Group 4	-	-	-
						<b>Sleepy Moon</b> Custom Code: Group 4	-	-	-
						<b>Goodnight Moon</b> Custom Code: 11-0720 TSX Int Code: Group 4	-	-	-
						<b>Lavender Sleep</b> Custom Code: 9361 C Int Code: Group 4	-	-	-
						<b>Midnight</b> Custom Code: 19-3847 TCX Int Code: Group 4	-	-	-
						<b>Pink Sheets</b> Custom Code: 12-1207 TCX Int Code: Group 4	-	-	-
						<b>Sleepy Moon</b> Custom Code: Group 4	-	-	-
						<b>Goodnight Moon</b> Custom Code: 11-0720 TSX Int Code: Group 4	-	-	-
						<b>Lavender Sleep</b> Custom Code: 9361 C Int Code: Group 4	-	-	-
						<b>Midnight</b> Custom Code: 19-3847 TCX Int Code: Group 4	-	-	-
						<b>Pink Sheets</b> Custom Code: 12-1207 TCX Int Code: Group 4	-	-	-
						<b>Sleepy Moon</b> Custom Code: Group 4	-	-	-
						<b>Goodnight Moon</b> Custom Code: 11-0720 TSX Int Code: Group 4	<b>Goodnight Moon</b> Custom Code: 11-0720 TSX Int Code: Group 4	-	\$1.00
						<b>Lavender Sleep</b> Custom Code: 9361 C Int Code: Group 4	<b>Lavender Sleep</b> Custom Code: 9361 C Int Code: Group 4	-	\$1.00
						<b>Midnight</b> Custom Code: 19-3847 TCX Int Code: Group 4	<b>Midnight</b> Custom Code: 19-3847 TCX Int Code: Group 4	-	\$1.00
						<b>Pink Sheets</b> Custom Code: 12-1207 TCX Int Code: Group 4	<b>Pink Sheets</b> Custom Code: 12-1207 TCX Int Code: Group 4	-	\$1.00
						<b>Sleepy Moon</b> Custom Code: Group 4	<b>Goodnight Moon</b> Custom Code: 11-0720 TSX Int Code: Group 4	-	\$1.00
Components 5									Total \$0.00

### Garment Marker



Solid Fabric-Average Consumption: 4YD4”20, Efficiency: 78.15%

Printed One Way Fabric- Fabric-Average Consumption: 4YD15”20, Efficiency: 77.31%

### Master Production Schedule

Master Production Schedule															
Company Name:		Cotton Inc Project-Group 4													
Product Name & SKU:		Luna Cotton Romper													
2nd Quarter (April-June) 2023															
April															
May															
June															
Starting Inventory	Wk1: 2-8	Wk2: 9-15	Wk3: 16-22	Wk4: 23-29	Wk5: 30-6	Wk6: 7-13	Wk7: 14-20	Wk8: 21-27	Wk9: 28-3	Wk10: 4-10	Wk11: 11-17	Wk12: 18-24	Wk13: 25-1	Wk14: 2-8	
Forecasted Demand/Sales	1200	950	650	350	450	500	500	350	150	300	50	350	50	400	
Actual Sales	250	300	300	400	450	500	650	700	350	250	200	300	150	100	
Forecasted On-hand Inventory	950	650	350	450	500	500	350	150	300	50	350	50	400	300	
Planned Production				500	500	500	500	500	500		500		500		
Available to Promise	350			450	500	500	350	150	300		350		400		
Product Name & SKU: Luna Cotton Romper 234212															
End-Item MRP:	Wk 0	Wk1	Wk2	Wk3	Wk4	Wk5	Wk6	Wk7	Wk8	Wk9	Wk10	Wk11	Wk12	Wk13	Wk14
Gross Requirements (GR)	1200	250	300	300	400	450	500	650	700	350	250	200	300	150	100
Scheduled Receipts (SR)		500													
Projected Stock Balance (PSB)		950	1150	850	450	500	500	350	150	300	50	350	50	400	300
Inventory On-Hand (IOH)		1200	950	1150	850	450	500	500	350	150	300	50	350	50	400
Net Requirements (NR)						10	10	160	360	210				110	
Planned Receipts (PR) [Lot Size (Q)]						500	500	500	500	500		500		500	
Planned Order Release (POR)		500	500	500	500	500									

### Manufacturing & Production Model: CMT, Retail Manufacture, Make to Stock

We chose a CMT manufacturing model because it is what is most sustainably efficient for this garment. CMT ensures that there is quality control when manufacturing. Retail Manufacture also ensures that CMT makes the most sense. We chose Make to Stock as our production approach because we wanted our garment to be produced based on anticipated demand from consumers.

### Factory Layout & Production System: Process Layout (Skill Centers) & Make Through Production

We chose the Process Factory Layout for our garment because we wanted the production to have skill centers in particular. The garment would be assembled by different operations dependent upon which part of the garment is being produced. This layout is most effective for smaller quantities. If each part of the garment is made in a skill center this would make the garment very high in quality. For our Production System we chose Make Through Production because it has the highest efficiency in quality and is also most effective for producing smaller quantities of the garment.