

FINAL SUBMITTAL

ENERGY ENGINEERING ANALYSIS PROGRAM
LIGHTING SURVEY OF SELECTED BUILDINGS
PINE BLUFF ARSENAL
PINE BLUFF, ARKANSAS

VOLUME IIC

APPENDICES

DTIC QUALITY INSPECTED 2

CONTRACT NO. DACA01-94-D-0038
DELIVERY ORDER NO. 0001

PREPARED FOR:

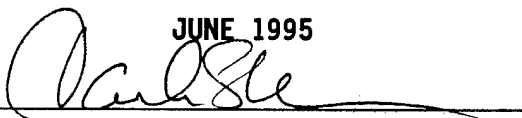
U.S. ARMY CORPS OF ENGINEERS
LITTLE ROCK, ARKANSAS

PREPARED BY:

REYNOLDS, SMITH AND HILLS, INC.
ENERGY SERVICES DEPARTMENT
P.O. BOX 4850
JACKSONVILLE, FLORIDA 32201

PROJECT NO. 6941331001

JUNE 1995



Carlos S. Warren, PhD, PE
Project Manager

19971017 175

VOLUME IIC
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DETAIL CALCULATIONS

BLDGS 32-100
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Bldg 32-100 Summary

Present System

Fixture Type	Watts/ Fixture	Number Fixtures	Total Watts
A1	164	18	2,952
A2	164	50	8,200
B1	82	2	164
B2	82	3	246
C	82	6	492
D	82	7	574
E1	158	8	1,264
F1	82	12	984
G1	316	32	10,112
Totals		138	24,988

Replacement System

Fixture Type	Watts/ Fixture	Number Fixtures	Total Watts
A3	86	6	516
A4	110	3	330
A8	59	9	531
AR	59	3	177
BS	59	3	177
BT	59	2	118
C8	59	6	354
D8	59	7	413
E8	105	40	4,200
F8	59	12	708
S2	59	44	2,596
Totals		135	10,120

Reynolds, Smith & Hills, Inc.
4651 Salisbury Road
Jacksonville, FL 32256
Buildings Engineering

Luminaire Fixture Schedule
Generated by LitePro V2.27E
Provided and supported by USI Lighting, Inc.
Filename: 32-100 Type: Indoor

Luminaire Fixture Schedule /PRESENT

Project name: PBA Lighting Survey - Bldg 32-100
Prepared for: CORP OF ENGINEERS
Prepared by: R. SHARMA

Project #6941331
Date: 7-Feb-95
UPD: 2.4W/Sq.Ft

TYPE	DESCRIPTION	LAMP/BALLAST	V/W	QTY	REMARKS
A1	2'X4' 4L STATIC GRID TROFFER LENS- .125" NOM PRISMATIC A12 COLUMBIA 2SG440-EXA.125NOM	F40CW ESB	000 - 164	✓ 18	
A2	2'X4' 4L SURFACE MOUNT LENS- PRISMATIC A12 COLUMBIA 2SM440-EXA	F40CW ESB	000 - 164	✓ 50	
B1	4"X4'2L EMBOSSED SURFACE STRIP OPEN BOTTOM- NO SHIELDING COLUMBIA CS240	F40CW ESB	000 - 82	✓ 2	
B2	7"X4'2L STRIP W/SIDE MTD LAMPS OPEN BOTTOM- NO SHIELDING COLUMBIA DE240	F40CW ESB	000 - 82	✓ 3	
C	2'X2' 2L SURFACE MOUNT LENS- PRISMATIC A12 COLUMBIA USM240-EXA	FB40/CW/6 ESB	000 - 82	✓ 6	
D	10"X4'2L CEILING MT.WRAPAROUND LENS- PRISMATIC W/ GLOW ENDS COLUMBIA WC240-A	F40CW ESB	000 - 82	✓ 7	
E1	11"X8' 2L APERTURED INDUSTRIAL OPEN BOTTOM- NO SHIELDING COLUMBIA CSR296-A	F96T12/CW ESB	000 - 158	8	
F1	11"X4' 2L INDUSTRIAL OPEN BOTTOM- NO SHIELDING COLUMBIA CSR240	F40CW ESB	000 - 82	✓ 12	
	8'4L APER.PORCELAIN INDUSTRIAL OPEN BOTTOM- NO SHIELDING COLUMBIA KP496	F96T12/CW ESB	000 - 316	✓ 32	

32-100 Schedule

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Jacksonville, FL 32256
Buildings Engineering

Luminaire Fixture Schedule
Generated by LitePro V2.27E
Provided and supported by USI Lighting, Inc.
Filename: 32-100 Type: Indoor

Luminaire Fixture Schedule /PROPOSED

Project name: PBA Lighting Survey - Bldg 32-100
Prepared for: CORP OF ENGINEERS
Prepared by: R. SHARMA

Project #6941331
Date: 9-Mar-95
UPD: 1.0W/Sq.Ft

TYPE	DESCRIPTION	LAMP/BALLAST	V/W	QTY	REMARKS
A3	2X4 3L FLUSH STATIC TROFFER LENS-PRISMATIC ACRYLIC PATT-19 COLUMBIA T84PS2*-84-243-3EOCT	FO32/31K EOCT	000 - 86	6	
A4	2X4 4L FLUSH STATIC TROFFER LENS-PRISMATIC ACRYLIC PATT-19 COLUMBIA T84PS2*-84-244	FO32/35K EOCT	000 - 110	3	
A8	2X4 2L FLUSH STATIC TROFFER LENS-PRISMATIC ACRYLIC PATT-19 COLUMBIA T84PS2*-84-242-2EOCT	FO32/31K EOCT	000 - 59	9	
AR	2X4 ACRYLIC LENS SILVER ECONOMY RETROFIT METALOPTICS 24EKS042EP11	FO32/35K EOCT	000 - 59	3	
BS	7"X4'2L STRIP W/SIDE MTD LAMPS OPEN BOTTOM- NO SHIELDING COLUMBIA DE240	FO32/35K EOCT	000 - 59	3	
BT	4"X4'2L EMBOSSED SURFACE STRIP OPEN BOTTOM- NO SHIELDING COLUMBIA CS240	FO32/35K EOCT	000 - 59	2	
C8	2'X2' 2L SURFACE MOUNT LENS- PRISMATIC A12 COLUMBIA USM240-EXA	FBO31/35K EOCT	000 - 59	6	
D8	10"X4'2L CEILING MT.WRAPAROUND LENS- PRISMATIC W/ GLOW ENDS COLUMBIA WC240-A	FO32/35K EOCT	000 - 59	7	
E8	11"X8' 2L APERTURED INDUSTRIAL OPEN BOTTOM- NO SHIELDING COLUMBIA CSR296-A	FO96/735 EOCT	000 - 105	40	

|F8 |11"X4' 2L INDUSTRIAL

|FO32/35K

|000 | 12|

|

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32-100 Schedule

	OPEN BOTTOM- NO SHIELDING COLUMBIA CSR240	EOCT	- 59		
S2	2X4 2L SURFACE MOUNT LENS- .125" THK PRISMATIC A12 COLUMBIA 6113-52-242	FO32/35K EOCT	000 - 59	44	

NOTES:

Reynolds, Smith & Hills, Inc.
4651 Salisbury Road
Jacksonville, FL 32256
Buildings Engineering

Project Area Summary
Generated by LitePro V2.27E
Provided and supported by USI Lighting, Inc.
Filename: 32-100 Type: Indoor

Project Area Summary

Project name: PBA Lighting Survey - Bldg 32-100
Prepared for: CORP OF ENGINEERS
Prepared by: R. SHARMA

Project #6941331
Date: 9-Mar-95
UPD: 1.7W/Sq.Ft

AREA NAME	DIMENSIONS	LUMINAIRES	W/SQ.FT	QTY
OFFICE #1	16x28x9Ft	(6) Type A1	2.2	1
OFFICE #1-N	16x28x9Ft	(6) Type A3	1.2	1
OFFICE #2	16x12x9Ft	(3) Type A1	2.6	1
OFFICE #2-N	16x12x9Ft	(3) Type AR	0.9	1
BREAK ROOM	19x18x9Ft	(3) Type A1	1.4	1
BREAK ROOM-N	19x18x9Ft	(3) Type A8	0.5	1
MEN'S ROOM	10x17x9Ft	(1) Type B1 (2) Type B2	1.5	1
MEN'S ROOM-N	10x17x9Ft	(2) Type BS (1) Type BT	1.1	1
WOMEN'S ROOM	9x13x9Ft	(1) Type B1 (1) Type B2	1.5	1
WOMEN'S ROOM-N	9x13x9Ft	(1) Type BS (1) Type BT	1.0	1
ENTRANCE AREA	24x6x9Ft	(3) Type C	1.7	1
ENTRANCE AREA-N	24x6x9Ft	(3) Type C8	1.2	1
STORAGE #1	24x11x9Ft	(4) Type D	1.2	1
STORAGE #1-N	24x11x9Ft	(4) Type D8	0.9	1
LABORATORY	60x39x9Ft	(42) Type A2 (3) Type C	3.0	1
LABORATORY-N	60x39x9Ft	(3) Type C8 (42) Type S2	1.1	1

Page 2
32-100 Areas

LAB-HALLWAY	40x10x9Ft	(5) Type A2	2.0	1
LAB-HALLWAY-N	40x10x9Ft	(2) Type S2	0.3	1
ELECTRONIC-TEST	13x18x9Ft	(3) Type A2	2.1	1
ELECTR TEST-N	13x18x9Ft	(3) Type A4	1.4	1
STORAGE #2	11x18x9Ft	(3) Type D	1.2	1
STORAGE #2-N	11x18x9Ft	(3) Type D8	0.9	1
TRAINING AREA	15x29x9Ft	(6) Type A1	2.3	1
TRAINING AREA-N	15x29x9Ft	(6) Type A8	0.8	1
REBUILD SHOP	72x42x15Ft	(8) Type E1 (12) Type F1 (11) Type G1	1.9	1
REBUILD SHOP-N	72x42x15Ft	(19) Type E8 (12) Type F8	0.9	1
REBUILD SHOP	33x61x15Ft	(21) Type G1	3.3	1
REBUILD SHOP-N	33x61x15Ft	(21) Type E8	1.1	1

NOTES:

32-100 Calculations

Reynolds, Smith & Hills, Inc.
 4651 Salisbury Road
 Jacksonville, FL 32256
 Buildings Engineering

Project Calculation Summary
 Generated by LitePro V2.27E
 Provided and supported by USI Lighting, Inc.
 Filename: 32-100 Type: Indoor

Project Calculation Summary

Project name: PBA Lighting Survey - Bldg 32-100
 Prepared for: CORP OF ENGINEERS
 Prepared by: R. SHARMA

Project #6941331
 Date: 9-Mar-95
 UPD: 1.7W/Sq.Ft

AREA NAME	DIMENSIONS	GRID NAME	AVE	MAX	MIN
OFFICE #1	16x28x9Ft	GRID	<+> 58.8	77.3	27.1
OFFICE #1-N	16x28x9Ft	GRID	<+> 44.4	57.4	20.6
OFFICE #2	16x12x9Ft	GRID	<+> 59.3	112.1	17.7
OFFICE #2-N	16x12x9Ft	GRID	<+> 33.7	62.0	10.5
BREAK ROOM	19x18x9Ft	GRID	<+> 41.0	68.4	6.1
BREAK ROOM-N	19x18x9Ft	GRID	<+> 21.3	35.0	3.2
MEN'S ROOM	10x17x9Ft	GRID	<+> 32.0	68.5	6.7
MEN'S ROOM-N	10x17x9Ft	GRID	<+> 28.5	61.1	5.9
WOMEN'S ROOM	9x13x9Ft	GRID	<+> 30.4	55.4	2.3
WOMEN'S ROOM-N	9x13x9Ft	GRID	<+> 27.1	49.4	2.0
ENTRANCE AREA	24x6x9Ft	GRID	<+> 34.2	49.2	10.7
ENTRANCE AREA-N	24x6x9Ft	GRID	<+> 30.9	44.5	9.7
STORAGE #1	24x11x9Ft	GRID	<+> 25.4	38.0	10.6
STORAGE #1-N	24x11x9Ft	GRID	<+> 22.6	33.9	9.5
LABORATORY	60x39x9Ft	GRID	<+> 105.6	177.2	16.2
LABORATORY-N	60x39x9Ft	GRID	<+> 54.0	87.4	12.5
LAB-HALLWAY	40x10x9Ft	GRID	<+> 51.5	92.4	3.0
LAB-HALLWAY-N	40x10x9Ft	GRID	<+> 10.4	27.7	0.5

32-100 Calculations

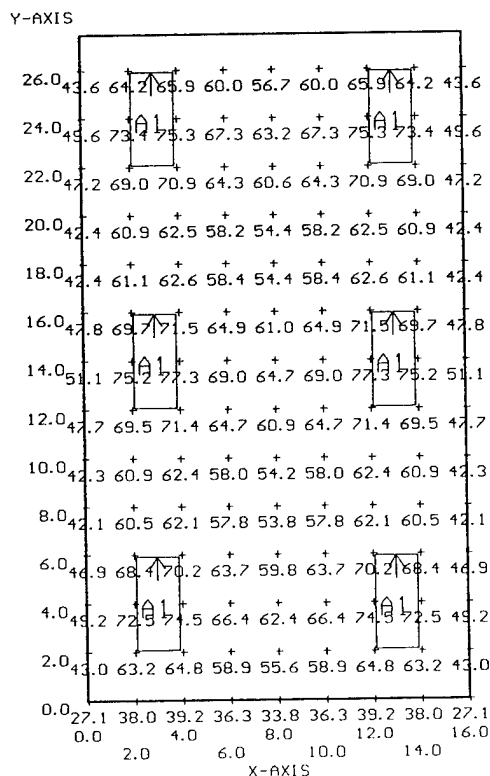
ELECTRONIC-TEST	13x18x9Ft	GRID	<+>	53.3	92.7	14.0
ELECTR TEST-N	13x18x9Ft	GRID	<+>	50.2	90.2	12.8
STORAGE #2	11x18x9Ft	GRID	<+>	25.5	39.9	8.6
STORAGE #2-N	11x18x9Ft	GRID	<+>	22.7	35.6	7.7
TRAINING AREA	15x29x9Ft	GRID	<+>	64.5	93.1	10.1
TRAINING AREA-N	15x29x9Ft	GRID	<+>	33.2	47.3	4.6
REBUILD SHOP	72x42x15Ft	Ceiling	<+>	73.9	147.7	17.3
REBUILD SHOP-N	72x42x15Ft	Ceiling	<+>	46.3	70.8	14.3
REBUILD SHOP	33x61x15Ft	Ceiling	<+>	117.0	188.9	25.0
REBUILD SHOP-N	33x61x15Ft	Ceiling	<+>	51.6	79.4	12.3

NOTES:

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 10:08 7-Feb-95
 PROJECT: 32-100 AREA: OFFICE #1 GRID: GRID
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=27.1 MAX=77.3 AVE=58.8 AVE/MIN= 2.17 MAX/MIN= 2.85

A1 <6> = K7952 COLUMBIA 2SG440-EXA.125NOM, (4) F40CW, LLF= 0.68

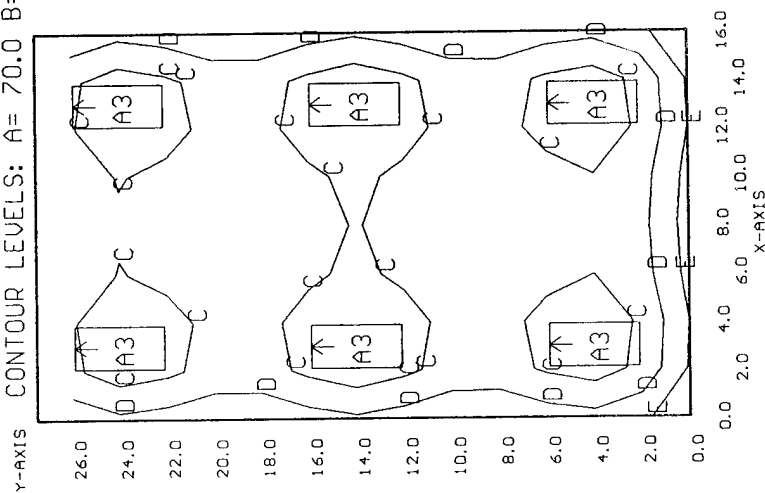


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 10:55 9-Mar-95
 PROJECT: 32-100 AREA: OFFICE #1-N GRID: GRID
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=20.6 MAX=57.4 AVE=44.4 AVE/MIN= 2.16 MAX/MIN= 2.79

A3 <6> = A9720 COLUMBIA T84PS2*-84-243-3EOCT, (3) F032/31K, LLF= 0.66

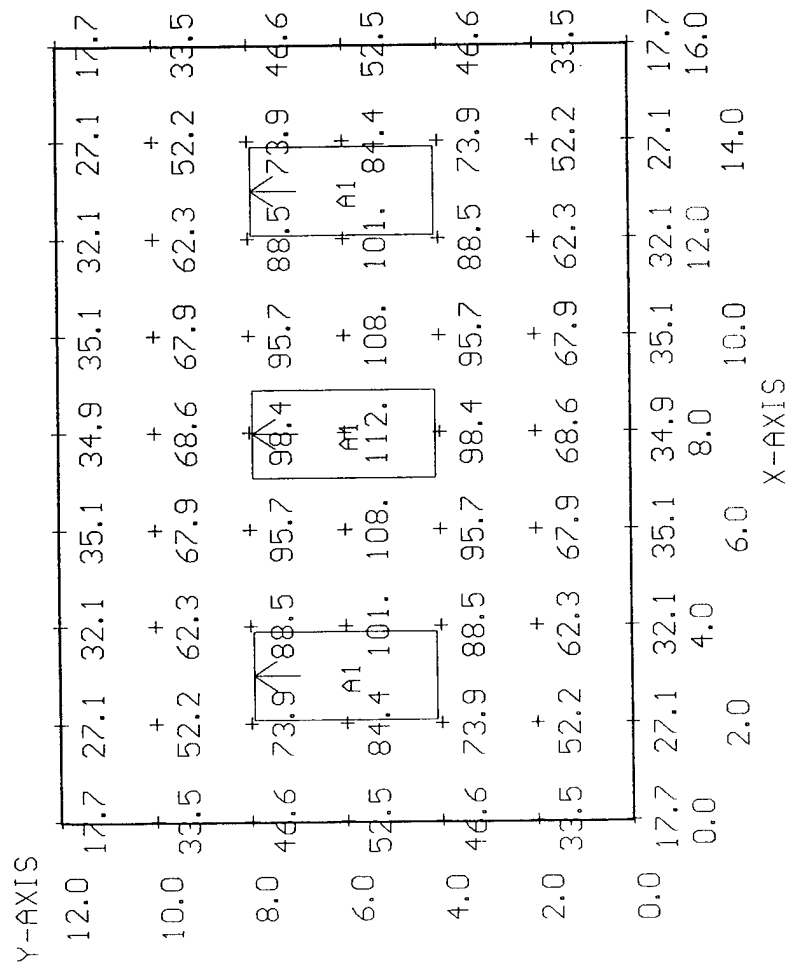
CONTOUR LEVELS: A= 70.0 B= 60.0 C= 50.0 D= 40.0 E= 30.0



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 10:10 7-Feb-95
 PROJECT: 32-100 AREA: OFFICE #2 GRID: GRID
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

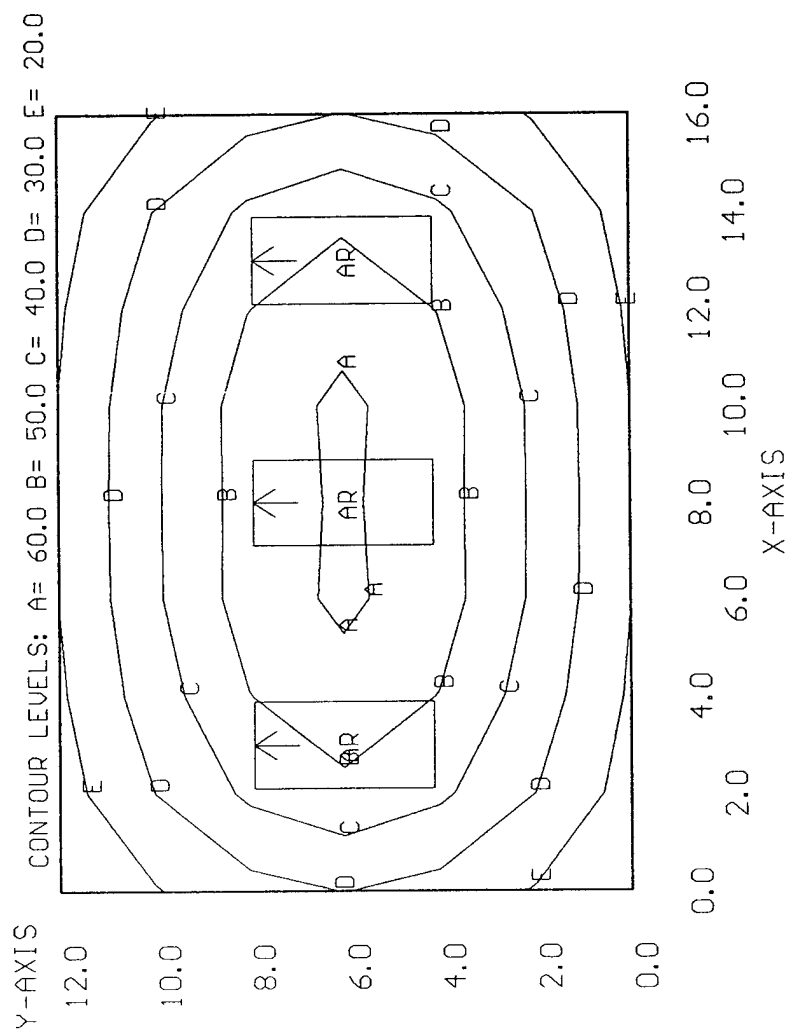
+ MIN=17.7 MAX=112. AVE=59.3 AVE/MIN= 3.35 MAX/MIN= 6.34

A1 <3> = K7952 COLUMBIA 2SG440-EXA.125NOM, <4> F40CW, LLF= 0.68

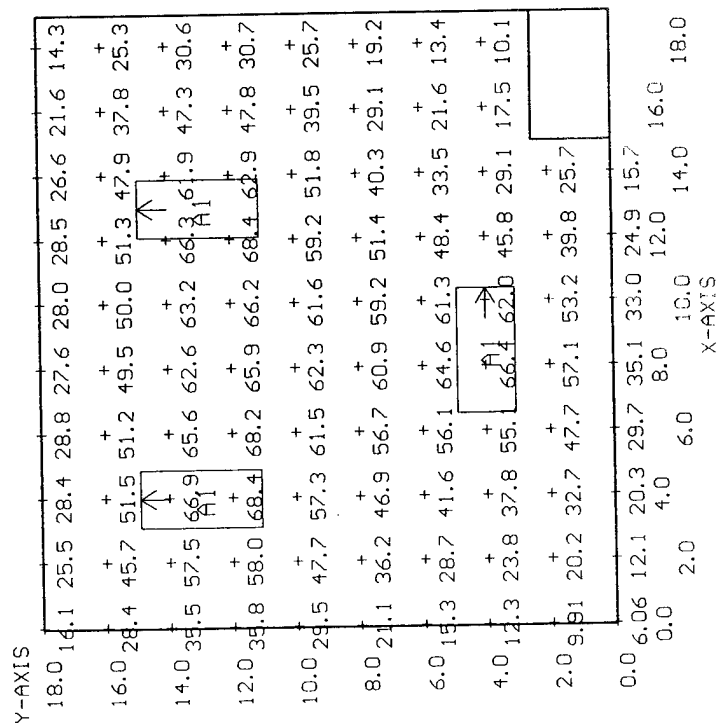


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 10:58 9-Mar-95
 PROJECT: 32-100 AREA: OFFICE #2-N GRID: GRID
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations
 + MIN=10.5 MAX=62.0 AVE=33.7 AVE/MIN= 3.22 MAX/MIN= 5.92

AR <3> = T10620 METALOPTICS 24EKS042EP11, <2> F032/35K, LLF= 0.66



A1 <3> = K7952 COLUMBIA 2SG440-EXA.125NOM, (4) F40CW, LLF = 0.68

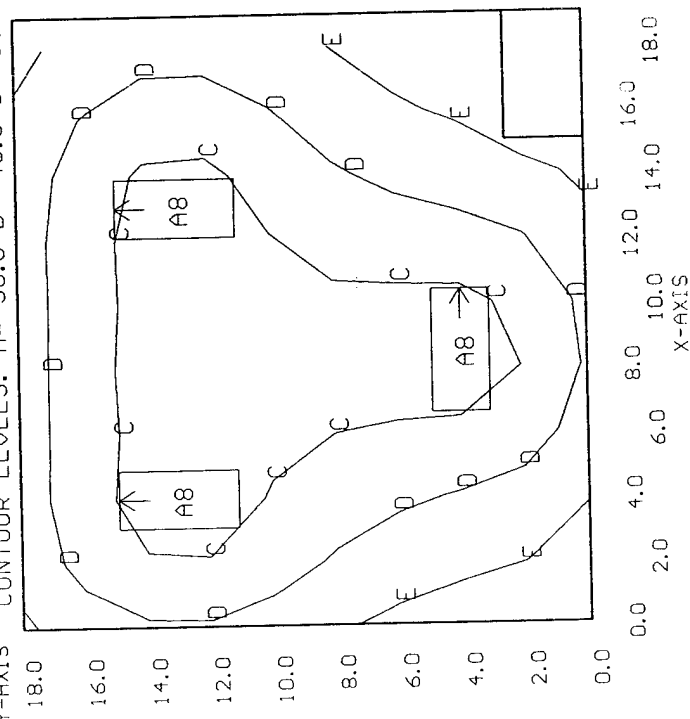


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 11:01 9-Mar-95
 PROJECT: 32-100 AREA: BREAK ROOM-N GRID: GRID
 Values are FC, SCALE: 1 IN= 6.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=3.16 MAX=35.0 AVE=21.3 AVE/MIN= 6.73 MAX/MIN= 11.05

A8 <3> = 9868 COLUMBIA T84PS2*-84-242-2EOCT, <2> F032/31K, LLF= 0.66

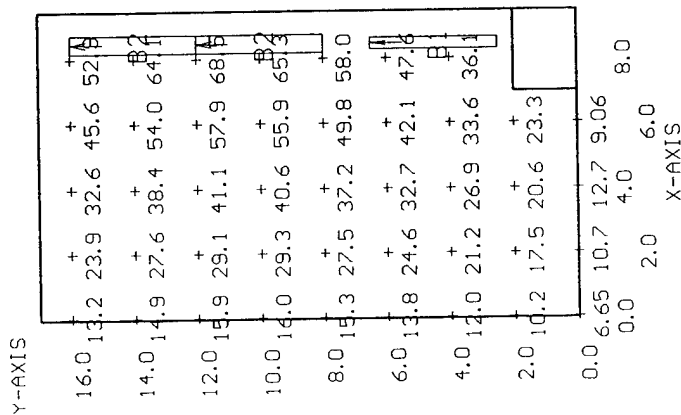
CONTOUR LEVELS: A= 50.0 B= 40.0 C= 30.0 D= 20.0 E= 10.0



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 10:27 7-Feb-95
 PROJECT: 32-100 AREA: MEN'S ROOM GRID: GRID
 Values are FC, SCALE: 1 IN= 6.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=6.65 MAX=68.5 AVE=32.0 AVE/MIN= 4.81 MAX/MIN= 10.31

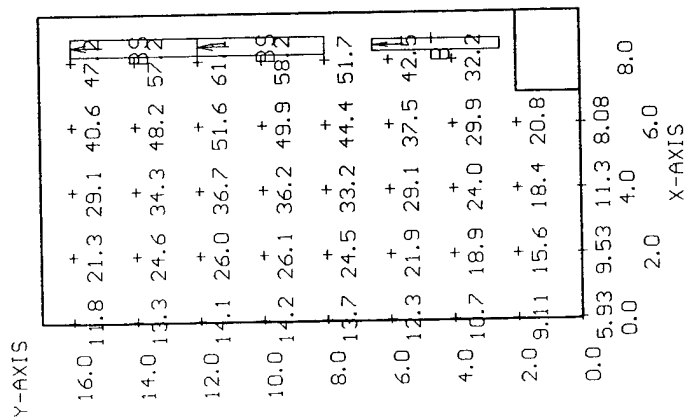
B1 <1> = K7992 COLUMBIA CS240, <2> F40CW, LLF= 0.73
 B2 <2> = K8990 COLUMBIA DE240, <2> F40CW, LLF= 0.73



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 11:05 9-Mar-95
 PROJECT: 32-100 AREA: MEN'S ROOM-N GRID: GRID
 Values are FC, SCALE: 1 IN= 6.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=5.93 MAX=61.1 AVE=28.5 AVE/MIN= 4.81 MAX/MIN= 10.31

BS <2> = K8990 COLUMBIA DE240, <2> F032/35K, LLF= 0.70
 BT <1> = K7992 COLUMBIA CS240, <2> F032/35K, LLF= 0.70

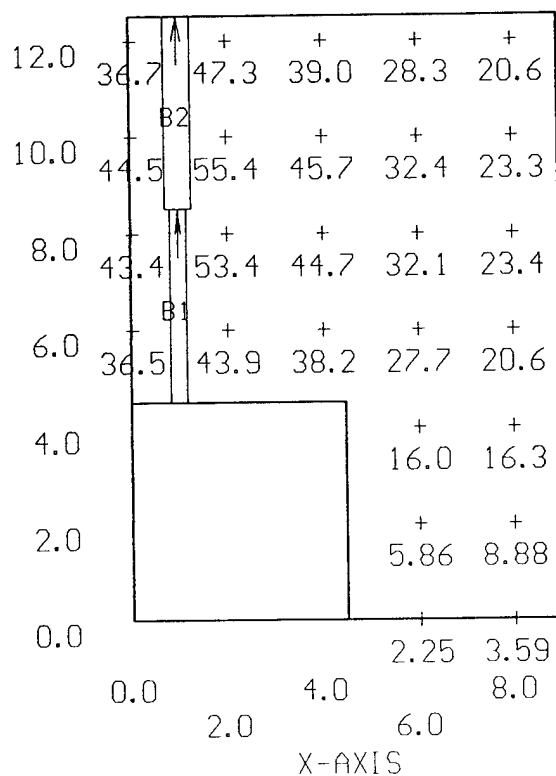


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 10:29 7-Feb-95
 PROJECT: 32-100 AREA: WOMEN'S ROOM GRID: GRID
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=2.25 MAX=55.4 AVE=30.4 AVE/MIN= 13.49 MAX/MIN= 24.60

B1 <1> = K7992 COLUMBIA CS240, <2> F40CW, LLF= 0.73
 B2 <1> = K8990 COLUMBIA DE240, <2> F40CW, LLF= 0.73

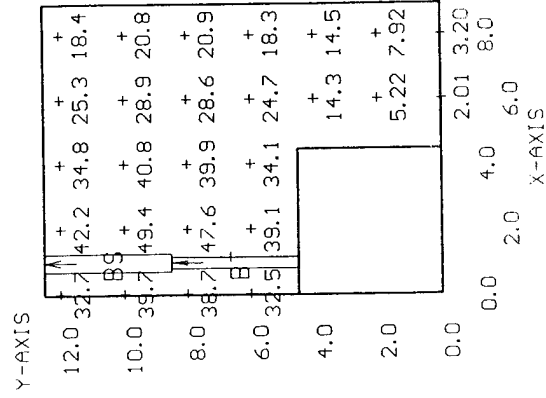
Y-AXIS



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 11:07 9-Mar-95
 PROJECT: 32-100 AREA: WOMEN'S ROOM-N GRID: GRID
 Values are FC, SCALE: 1 IN= 6.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=2.01 MAX=49.4 AVE=27.1 AVE/MIN= 13.49 MAX/MIN= 24.60

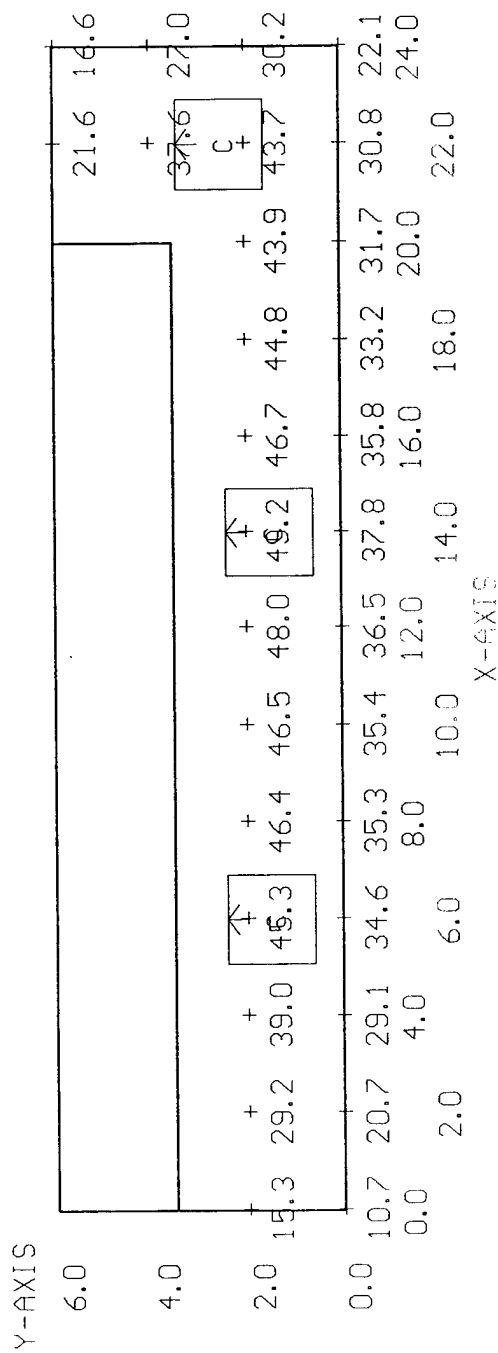
BS <1> = K8990 COLUMBIA DE240, <2> F032/35K, LLF= 0.70
 BT <1> = K7992 COLUMBIA CS240, <2> F032/35K, LLF= 0.70



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 13:05 1-Feb-95
 PROJECT: 32-100 AREA: ENTRANCE AREA GRID: GRID
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=10.7 MAX=49.2 AVE=34.2 AVE/MIN= 3.19 MAX/MIN= 4.60

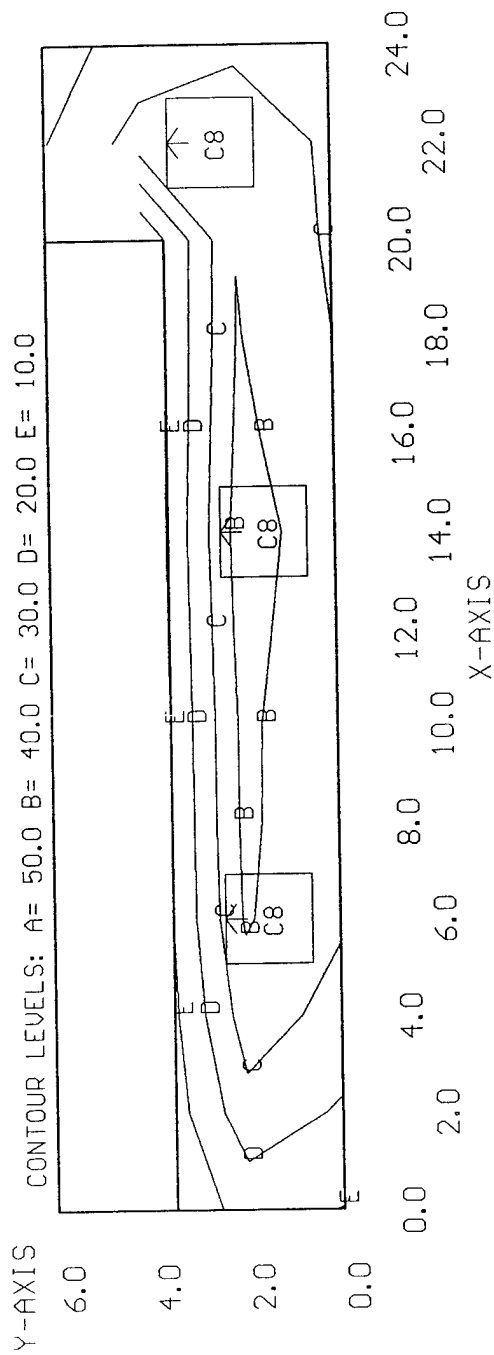
C <3> = K8276 COLUMBIA USM240-EXA, <2> FB40/CW/6, LLF= 0.68



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 11:11 9-Mar-95
 PROJECT: 32-100 AREA: ENTRANCE AREA-N GRID: GRID
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=9.67 MAX=44.5 AVE=30.9 AVE/MIN= 3.19 MAX/MIN= 4.60

C8 <3> = K8276 COLUMBIA USM240-EXA, <2> FB031/35K, LLF= 0.66

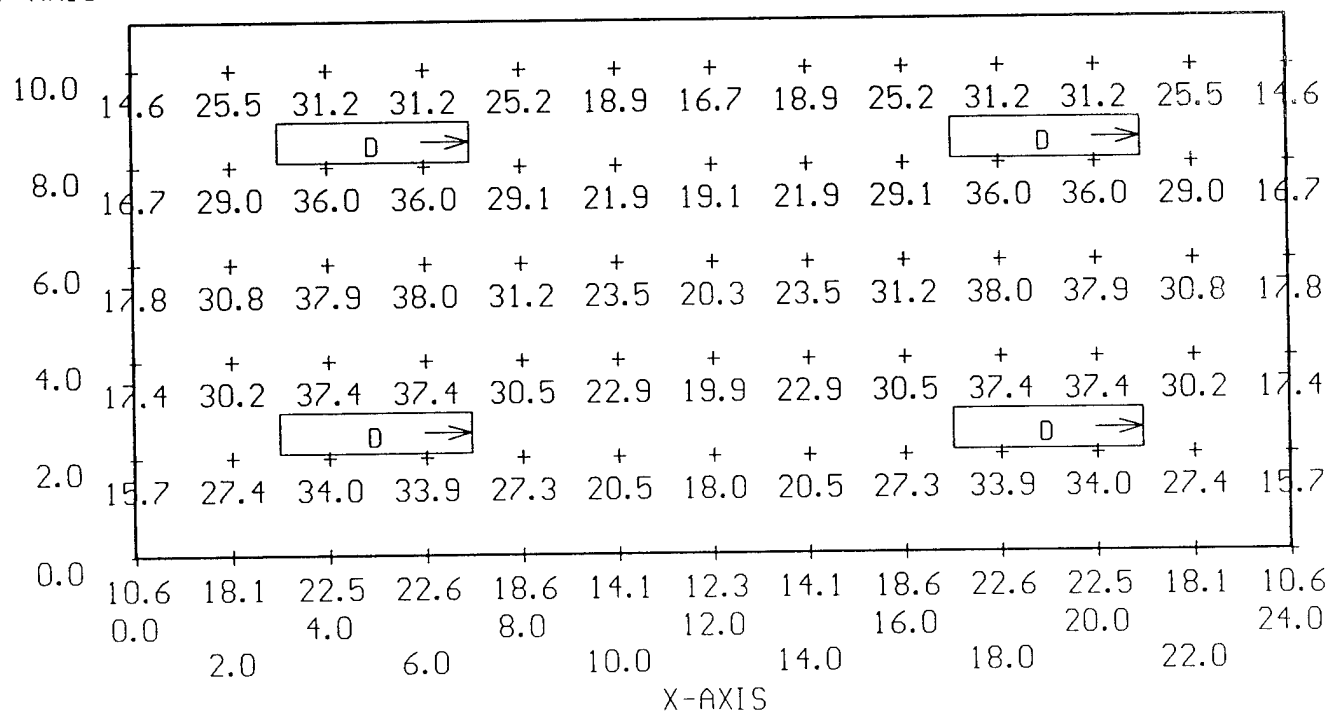


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 13:20 1-Feb-95
 PROJECT: 32-100 AREA: STORAGE #1 GRID: GRID
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=10.6 MAX=38.0 AVE=25.4 AVE/MIN= 2.39 MAX/MIN= 3.58

D <4> = KA9513 COLUMBIA WC240-A, (2) F40CW, LLF= 0.68

Y-AXIS

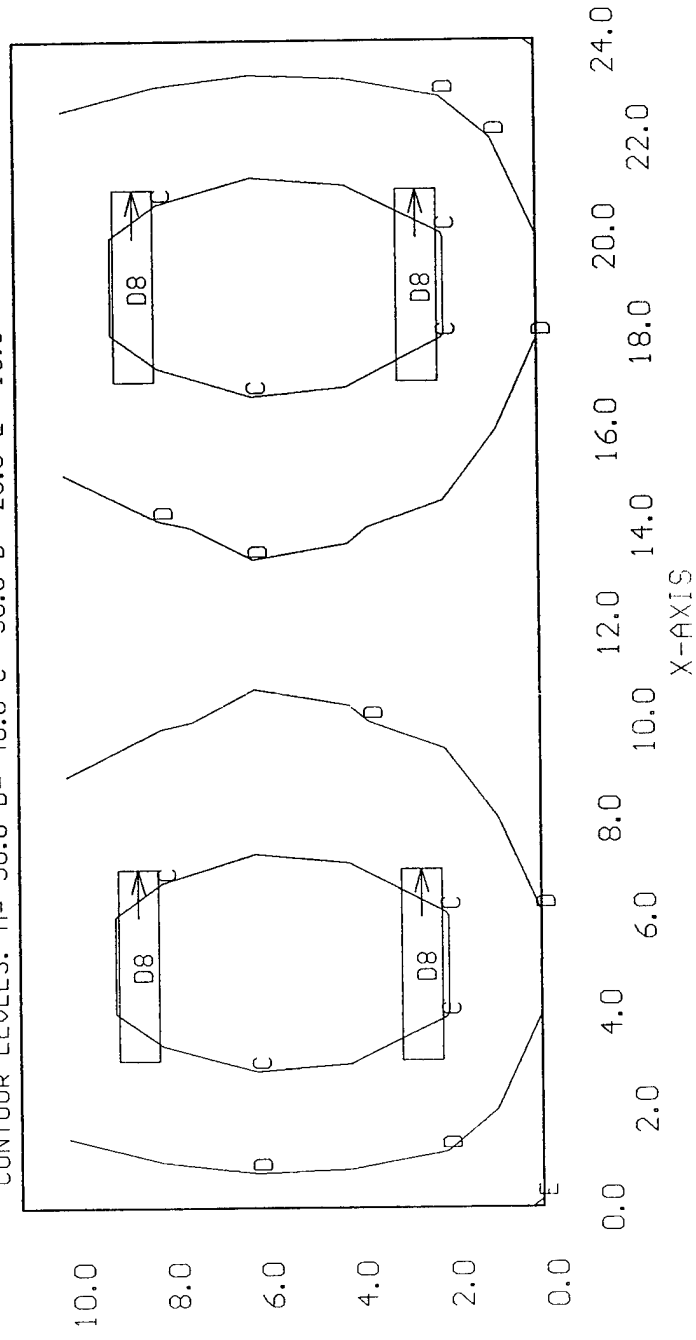


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 11:16 9-Mar-95
 PROJECT: 32-100 AREA: STORAGE #1-N GRID: GRID
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

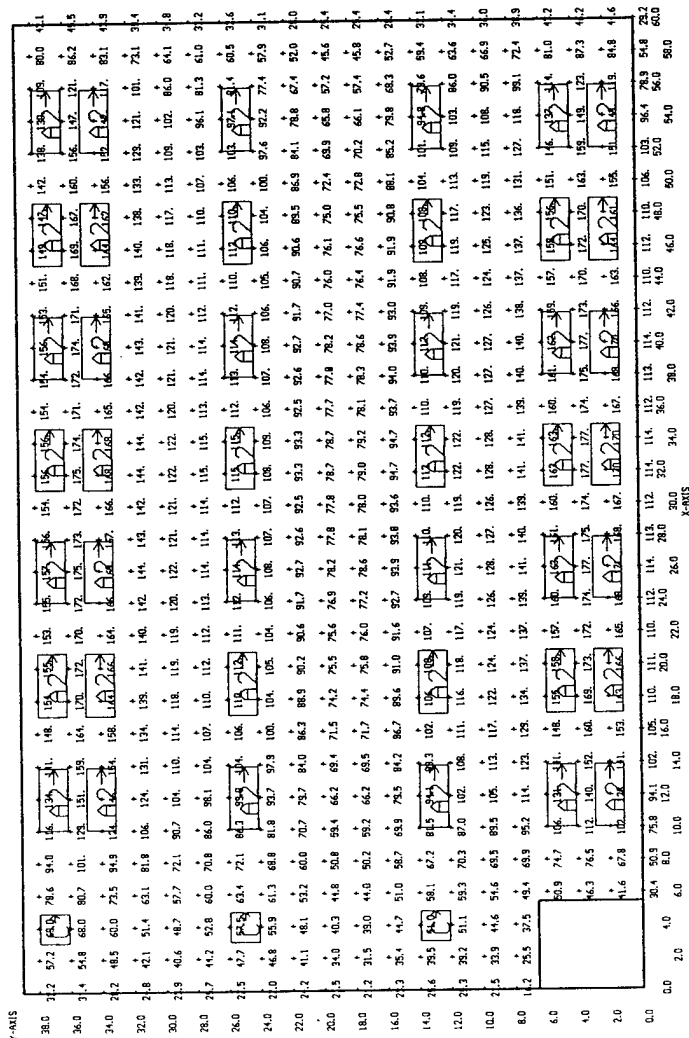
+ MIN=9.46 MAX=33.9 AVE=22.6 AVE/MIN= 2.39 MAX/MIN= 3.58

D8 <4> = KA9513 COLUMBIA WC240-A, <2> F032/35K, LLF= 0.66

Y-AXIS. CONTOUR LEVELS: A= 50.0 B= 40.0 C= 30.0 D= 20.0 E= 10.0



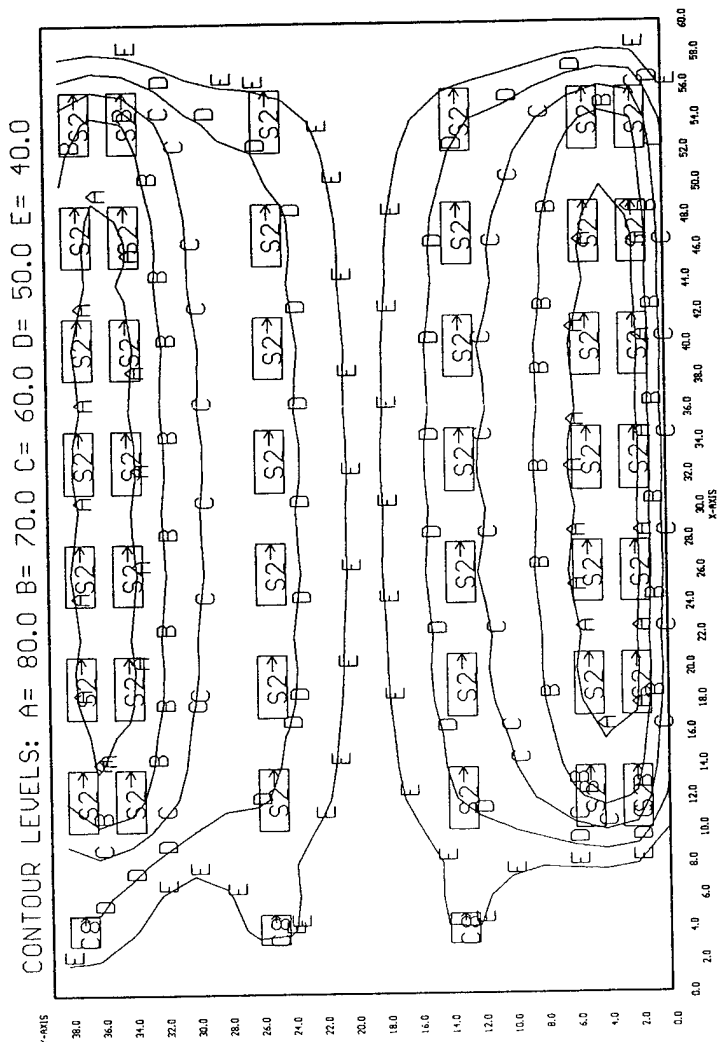
A2 <42> = K8277 COLUMBIA 2SM440-EXA, <4> F40CW, LLF= 0.68
C <3> = K8276 COLUMBIA USM240-EXA, <2> FB40/CW/6, LLF= 0.68



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 11:32 9-Mar-95
 PROJECT: 32-100 AREA: LABORATORY-N GRID: GRID
 Values are FC, SCALE: 1 IN= 12.0FT, HORZ GRID (U), HORZ CALC (U), Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=12.5 MAX=87.4 AVE=54.0 AVE/MIN= 4.33 MAX/MIN= 7.01

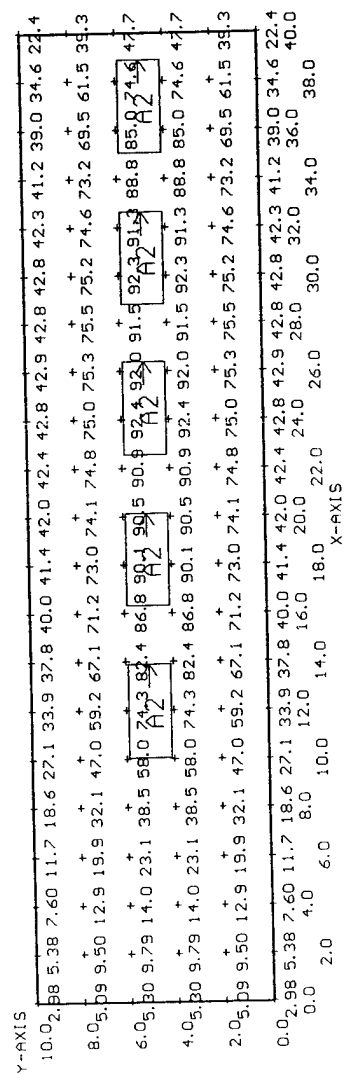
C8 <3> = K8276 COLUMBIA USM240-EXA, <2> FB031/35K, LLF= 0.66
 S2 <42> = I38116 COLUMBIA 6113-52-242, <2> F032/35K, LLF= 0.66



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 10:50 7-Feb-95
 PROJECT: 32-100 AREA: LAB-HALLWAY GRID: GRID
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=2.98 MAX=92.4 AVE=51.5 AVE/MIN= 17.32 MAX/MIN= 31.05

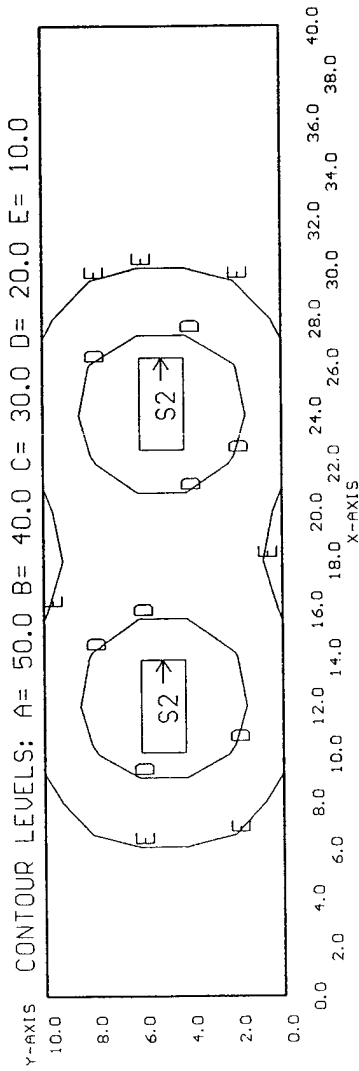
A2 <5> = K8277 COLUMBIA 2SM440-EXA, <4> F40CW, LLF= 0.68



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 11:38 9-Mar-95
 PROJECT: 32-100 AREA: LAB-HALLWAY-N GRID: GRID
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=0.53 MAX=27.7 AVE=10.4 AVE/MIN= 19.39 MAX/MIN= 51.51

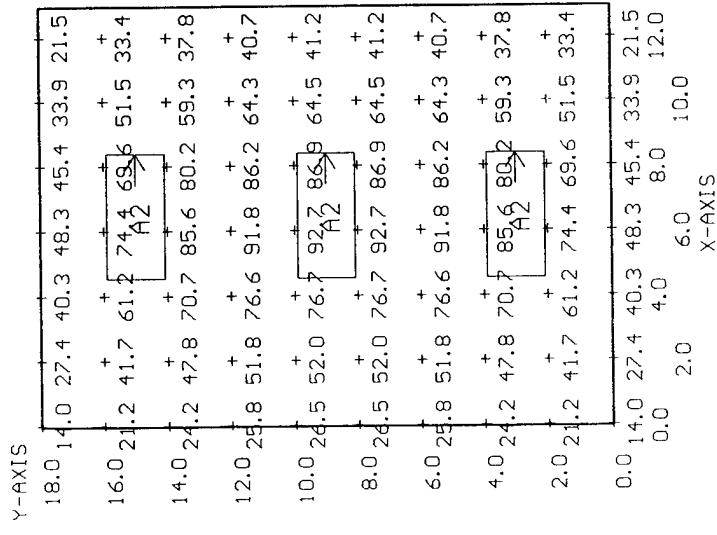
S2 <2> = I38116 COLUMBIA 6113-52-242, <2> F032/35K, LLF= 0.66



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 10:53 7-Feb-95
 PROJECT: 32-100 AREA: ELECTRONIC-TEST GRID: GRID
 Values are FC, SCALE: 1 IN= 6.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=14.0 MAX=92.7 AVE=53.3 AVE/MIN= 3.80 MAX/MIN= 6.61

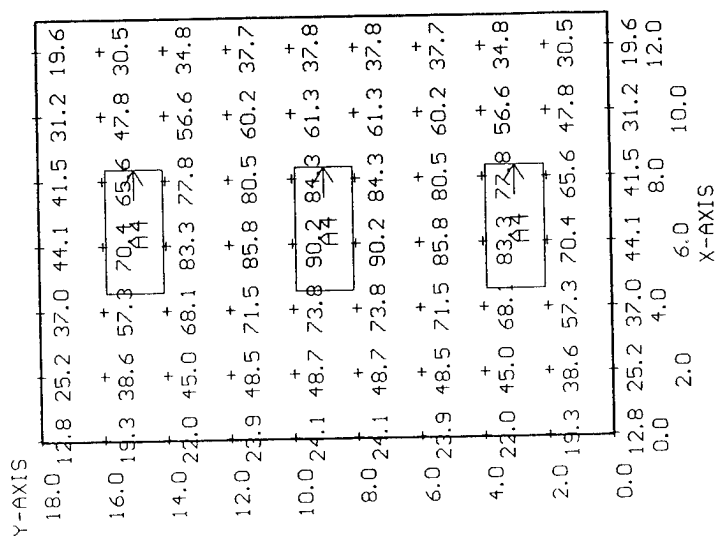
A2 <3> = K8277 COLUMBIA 2SM440-EXA, <4> F40CW, LLF= 0.68



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 11:42 9-Mar-95
 PROJECT: 32-100 AREA: ELECTR TEST-N GRID: GRID
 Values are FC, SCALE: 1 IN= 6.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=12.8 MAX=90.2 AVE=50.2 AVE/MIN= 3.93 MAX/MIN= 7.06

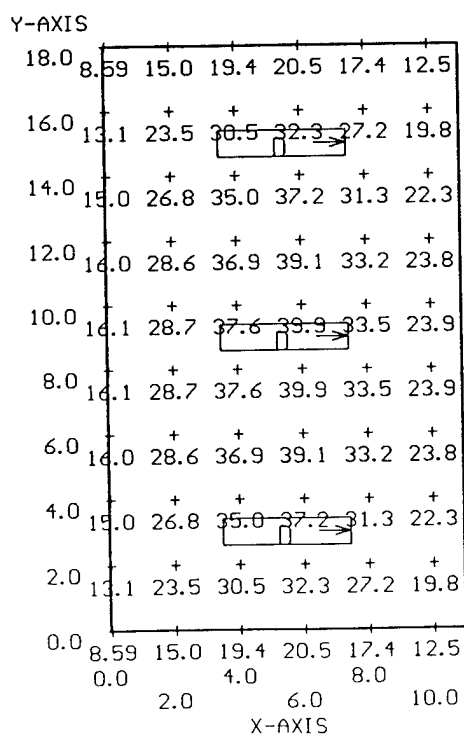
A4 <3> = 10002 COLUMBIA T84PS2*-84-244, <4> F032/35K, LLF= 0.66



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:31 1-Feb-95
 PROJECT: 32-100 AREA: STORAGE #2 GRID: GRID
 Values are FC, SCALE: 1 IN= 6.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 computed in accordance with IES recommendations

+ MIN=8.59 MAX=39.9 AVE=25.5 AVE/MIN= 2.97 MAX/MIN= 4.65

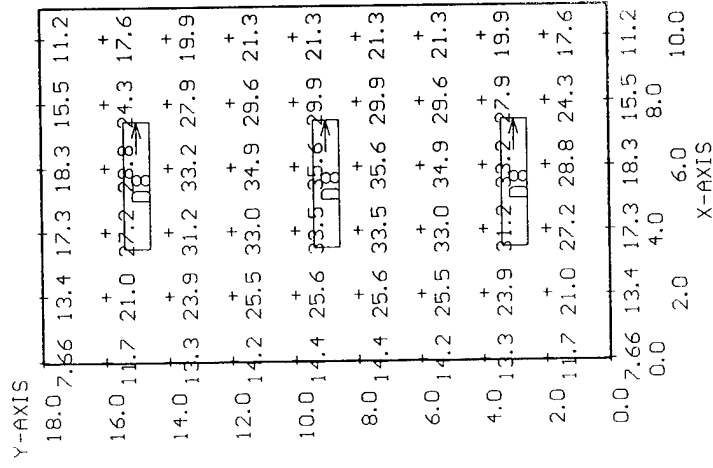
D <3> = KA9513 COLUMBIA WC240-A, (2) F40CW, LLF= 0.68



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 11:44 9-Mar-95
 PROJECT: 32-100 AREA: STORAGE #2-N GRID: GRID
 Values are FC, SCALE: 1 IN= 6.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=7.66 MAX=35.6 AVE=22.7 AVE/MIN= 2.97 MAX/MIN= 4.65

D8 <3> = KA9513 COLUMBIA WC240-A, <2> F032/35K, LLF= 0.66



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 10:58 7-Feb-95
 PROJECT: 32-100 AREA: TRAINING AREA GRID: GRID
 Values are FC, SCALE: 1 IN= 10.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=10.1 MAX=93.1 AVE=64.5 AVE/MIN= 6.37 MAX/MIN= 9.20

A1 <6> = K7952 COLUMBIA 2SG440-EXA.125NOM, <4> F40CW, LLF= 0.68

Y-AXIS

28.0	16.5	17.7	17.9	17.9	17.9	17.2	15.5
26.0	14.6	26.0	28.7	29.0	28.9	29.1	27.8
24.0	22.8	42.6	47.7	48.3	48.1	48.2	45.9
22.0	35.1	61.0	68.7	68.1	67.3	69.1	66.1
20.0	42.3	74.8	83.9	80.6	79.0	82.4	85.7
18.0	48.9	76.9	85.9	85.2	84.1	86.3	82.9
16.0	50.4	78.2	86.9	87.5	86.9	87.6	83.8
14.0	51.1	80.4	89.9	89.2	88.2	90.3	86.7
12.0	52.0	83.1	93.1	90.8	89.1	92.8	90.3
10.0	53.5	81.0	90.6	89.8	88.8	91.0	87.3
8.0	55.1	79.4	88.2	89.0	88.4	89.0	85.1
6.0	56.2	78.8	88.2	87.6	86.6	88.6	85.0
4.0	58.2	72.7	84.3	84.2	82.6	86.7	88.0
2.0	61.6	66.1	73.8	73.1	72.3	74.0	71.2
0.0	26.4	40.6	45.2	45.7	45.4	45.7	43.6
0.0	0.0	4.0	6.0	8.0	10.0	12.0	14.0

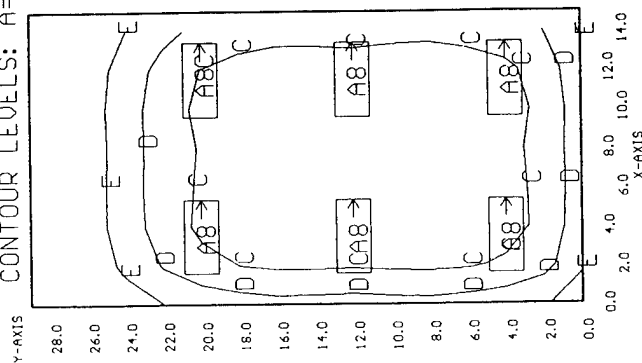
X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 11:46 9-Mar-95
 PROJECT: 32-100 AREA: TRAINING AREA-N GRID: GRID
 Values are FC, SCALE: 1 IN= 10.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=4.64 MAX=47.3 AVE=33.2 AVE/MIN= 7.16 MAX/MIN= 10.19

A8 <6> = 9868 COLUMBIA T84PS2*-84-242-2E0CT, <2> F032/31K, LLF= 0.66

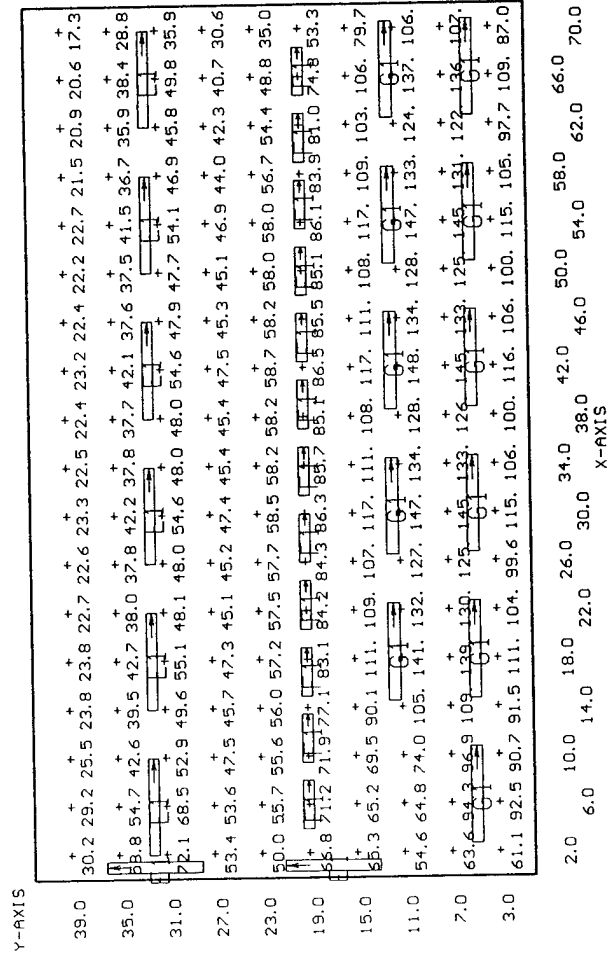
CONTOUR LEVELS: A= 60.0 B= 50.0 C= 40.0 D= 30.0 E= 20.0



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 11:50 7-Feb-95
 PROJECT: 32-100 AREA: REBUILD SHOP GRID: Ceiling
 Values are FC, SCALE: 1 IN= 16.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=17.3 MAX=148. AVE=73.9 AVE/MIN= 4.27 MAX/MIN= 8.54

E1 <8> = K8673 COLUMBIA CSR296-A, (2) F96T12/CW, LLF= 0.67
 F1 <12> = K7990 COLUMBIA CSR240, (2) F40CW, LLF= 0.68
 G1 <11> = K7983M COLUMBIA KP496, (4) F96T12/CW, LLF= 0.67

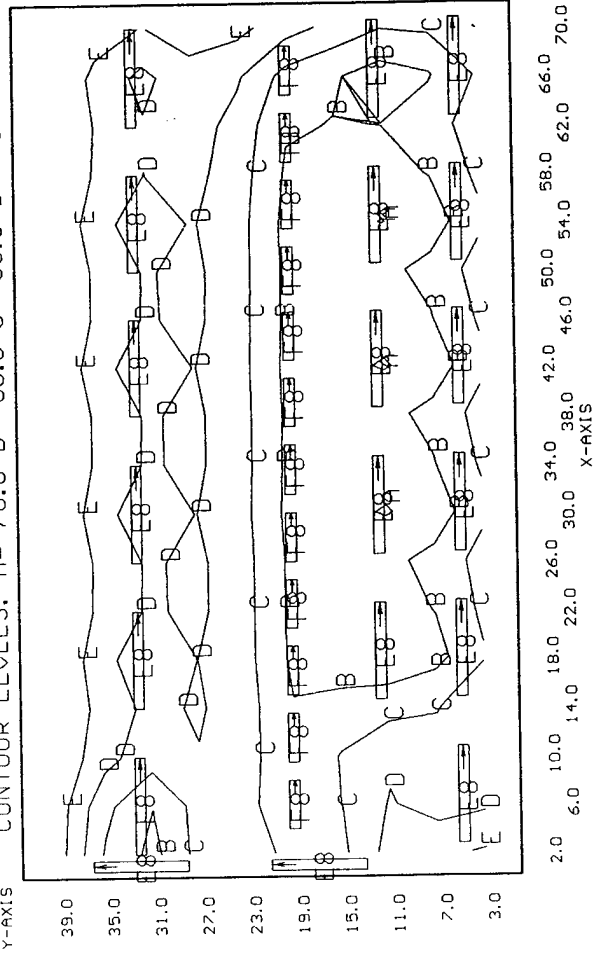


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 13:02 9-Mar-95
 PROJECT: 32-100 AREA: REBUILD SHOP-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 16.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=14.3 MAX=70.8 AVE=46.3 AVE/MIN= 3.24 MAX/MIN= 4.95

E8 <19> = K8673 COLUMBIA CSR296-A, <2> F096/735, LLF= 0.66
 F8 <12> = K7990 COLUMBIA CSR240, <2> F032/35K, LLF= 0.66

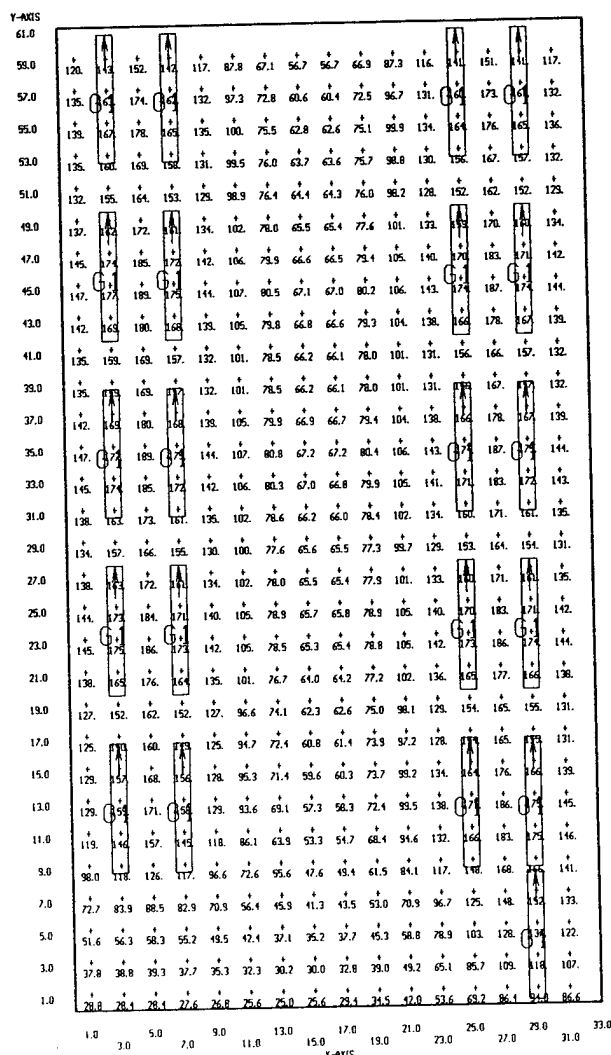
CONTOUR LEVELS: A= 70.0 B= 60.0 C= 50.0 D= 40.0 E= 30.0



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 11:54 7-Feb-95
 PROJECT: 32-100 AREA: REBUILD SHOP GRID: Ceiling
 Values are FC, SCALE: 1 IN= 12.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=25.0 MAX=189. AVE=117. AVE/MIN= 4.68 MAX/MIN= 7.55

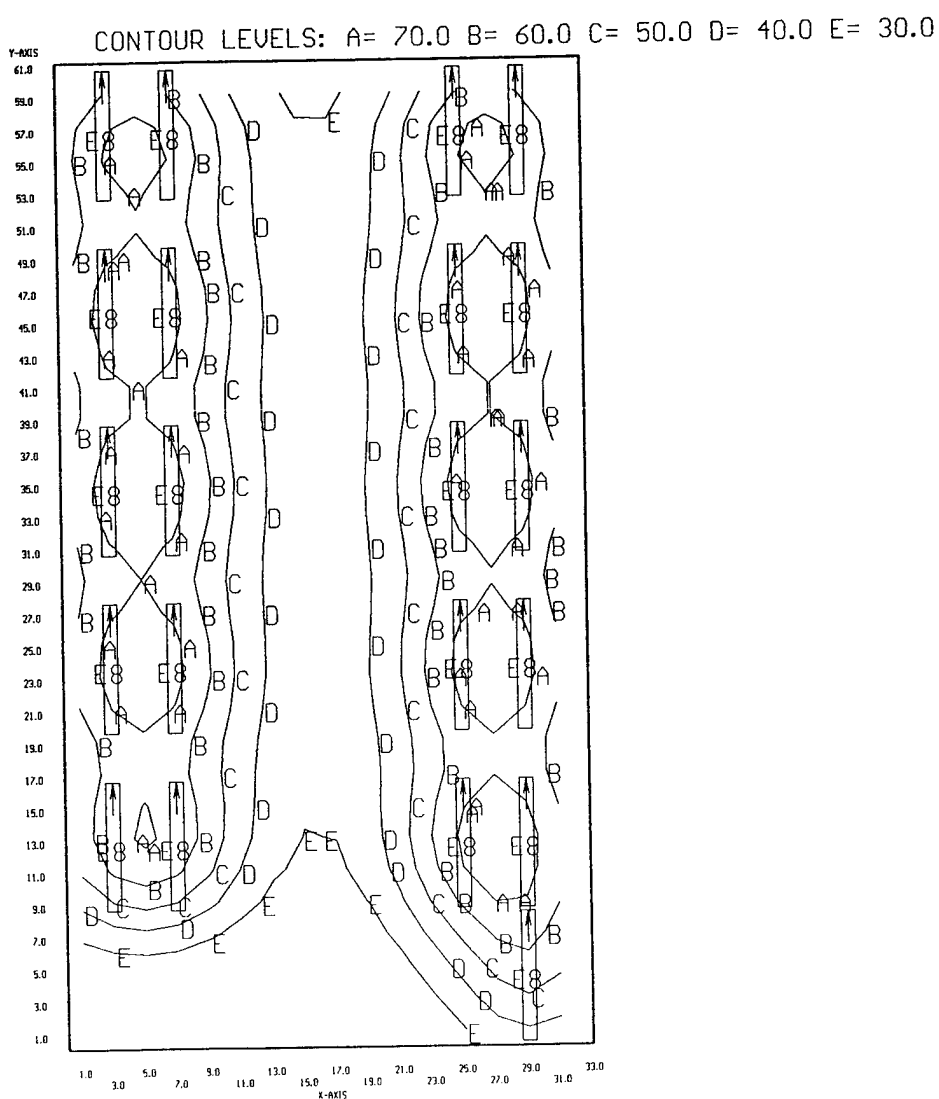
G1 <21> = K7983M COLUMBIA KP496, (4) F96T12/CW, LLF= 0.67



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 13:06 9-Mar-95
 PROJECT: 32-100 AREA: REBUILD SHOP-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 12.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=12.3 MAX=79.4 AVE=51.6 AVE/MIN= 4.21 MAX/MIN= 6.47

E8 <21> = K8673 COLUMBIA CSR296-A, <2> F096/735, LLF= 0.66



Bldg 32-130 Summary

Present System

Fixture Type	Watts/ Fixture	Number Fixtures	Total Watts
A1	164	48	7,872
B2	200	2	400
C1	83	2	166
Totals		52	8,438

Replacement System

Fixture Type	Watts/ Fixture	Number Fixtures	Total Watts
AR	61	48	2,928
C8	59	1	59
CF	85	2	170
Totals		51	3,157

32-130 Schedule

Reynolds, Smith & Hills, Inc.
4651 Salisbury Road
Jacksonville, FL 32256
Buildings Engineering

Luminaire Fixture Schedule
Generated by LitePro V2.27E
Provided and supported by USI Lighting, Inc.
Filename: 32-130 Type: Indoor

Luminaire Fixture Schedule / PRESENT

Project name: PBA LIGHTING SURVEY - BLDG 32-130
Prepared for: CORP OF ENGINEERS
Prepared by: R. SHARMA

Project #6941331
Date: 6-Feb-95
UPD: 2.8W/Sq.Ft

TYPE	DESCRIPTION	LAMP/BALLAST	V/W	QTY	REMARKS
A1	4'4L APER.PORCELAIN INDUSTRIAL OPEN BOTTOM- NO SHIELDING COLUMBIA KP440	F40CW ESB	000 - 164	48	48 → 18
B2	13"SURFACE CYLINDER,STD. DIST. LENS- STIPPLED PRESCOLITE HD13C07	200A23/IF STD	000 - 200	2	2 → CF
C1	15"X4'2L CEILING MT.WRAPAROUND LENS- PRISMATIC W/ GLOW ENDS COLUMBIA WCW240-A	F40CW ESB	000 - 83	2	1 → remove 1 → C8

NOTES:

32-130 Schedule

Reynolds, Smith & Hills, Inc.
4651 Salisbury Road
Jacksonville, FL 32256
Buildings Engineering

Luminaire Fixture Schedule
Generated by LitePro V2.27E
Provided and supported by USI Lighting, Inc.
Filename: 32-130 Type: Indoor

Luminaire Fixture Schedule / **PROPOSED**

Project name: PBA LIGHTING SURVEY - BLDG 32-130	Project #6941331
Prepared for: CORP OF ENGINEERS	Date: 9-Mar-95
Prepared by: R. SHARMA	UPD: 1.0W/Sq.Ft

TYPE	DESCRIPTION	LAMP/BALLAST	V/W	QTY	REMARKS
AR	4' INDUSTRIAL SOLID REFLECTOR SILVER SPREAD BEAM REFLECTOR METALOPTICS ISS04SSWWSO42EP11	FO32/35K EOCT	000 - 61	48	
C8	15"X4'2L CEILING MT.WRAPAROUND LENS- PRISMATIC W/ GLOW ENDS COLUMBIA WCW240-A	FO32/35K EOCT	000 - 59	1	
CF	9" 3L RECESSED ROUND DOWNLIGHT OPEN - CLR.REFL. W/ BLK.BAFFLE PRESCOLITE CFR926-B782	F26DTT/27K STD 28 W SCREW-IN	000 - 28 85	2	

NOTES:

32-130 Areas

Reynolds, Smith & Hills, Inc.
 4651 Salisbury Road
 Jacksonville, FL 32256
 Buildings Engineering

Project Area Summary
 Generated by LitePro V2.27E
 Provided and supported by USI Lighting, Inc.
 Filename: 32-130 Type: Indoor

Project Area Summary

Project name: PBA LIGHTING SURVEY - BLDG 32-130
 Prepared for: CORP OF ENGINEERS
 Prepared by: R. SHARMA

Project #6941331
 Date: 9-Mar-95
 UPD: 1.9W/Sq.Ft

AREA NAME	DIMENSIONS	LUMINAIRES	W/SQ.FT	QTY
LABORATORY	48x27x10Ft	(21) Type A1	2.7	1
LABORATORY-N	48x27x10Ft	(21) Type AR	1.0	1
SUB LAB	38x27x10Ft	(17) Type A1	2.7	1
'B LAB-N	38x27x10Ft	(17) Type AR	1.0	1
RESTROOM	10x12x8Ft	(2) Type B2	3.5	1
RESTROOM-N	10x12x8Ft	(2) Type CF	1.5	1
STORAGE	14x10x10Ft	(2) Type C1	1.3	1
STORAGE-N	14x10x10Ft	(1) Type C8	0.5	1
TESTING	17x27x10Ft	(10) Type A1	3.6	1
TESTING-N	17x27x10Ft	(10) Type AR	1.3	1

NOTES:

32-130 Calculations

Reynolds, Smith & Hills, Inc.
4651 Salisbury Road
Jacksonville, FL 32256
Buildings Engineering

Project Calculation Summary
Generated by LitePro V2.27E
Provided and supported by USI Lighting, Inc.
Filename: 32-130 Type: Indoor

Project Calculation Summary

Project name: PBA LIGHTING SURVEY - BLDG 32-130
Prepared for: CORP OF ENGINEERS
Prepared by: R. SHARMA

Project #6941331
Date: 9-Mar-95
UPD: 1.9W/Sq.Ft

AREA NAME	DIMENSIONS	GRID NAME	AVE	MAX	MIN
LABORATORY	48x27x10Ft	GRID	<+> 95.1	123.3	56.5
LABORATORY-N	48x27x10Ft	GRID	<+> 52.3	69.0	32.2
SUB LAB	38x27x10Ft	GRID	<+> 67.4	108.8	0.0
SUB LAB-N	38x27x10Ft	GRID	<+> 36.8	62.3	0.0
RESTROOM	10x12x8Ft	GRID	<+> 23.7	48.0	3.3
RESTROOM-N	10x12x8Ft	GRID	<+> 15.4	27.7	2.5
STORAGE	14x10x10Ft	GRID	<+> 36.9	59.3	18.1
STORAGE-N	14x10x10Ft	GRID	<+> 17.6	32.2	6.5
TESTING	17x27x10Ft	Ceiling	<+> 99.1	151.0	40.6
TESTING-N	17x27x10Ft	Ceiling	<+> 53.9	86.1	22.8

NOTES:

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:13 6-Feb-95
 PROJECT: 32-130 AREA: LABORATORY GRID: GRID
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=56.5 MAX=123. AVE=95.1 AVE/MIN= 1.68 MAX/MIN= 2.18

A1 <21> = K7983L COLUMBIA KP440, (4) F40CW, LLF= 0.68

Y--AXIS

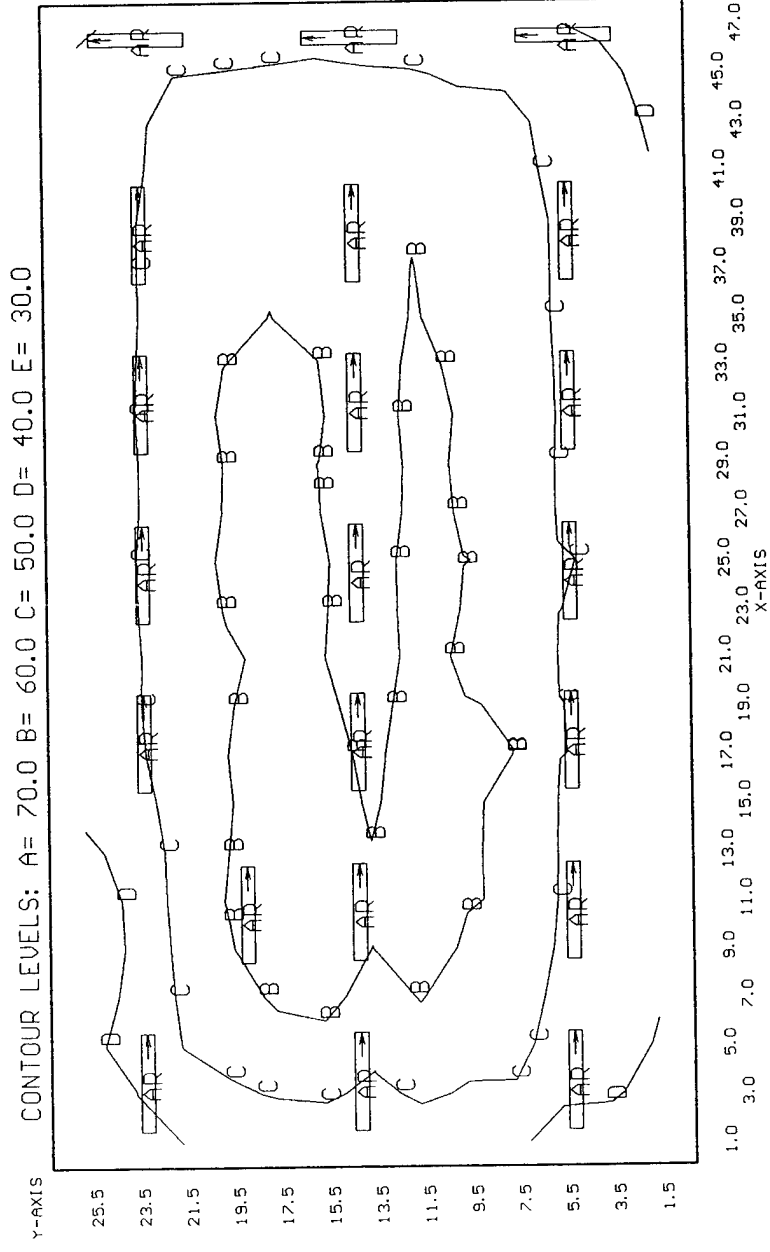
25.5	60.8	67.3	69.0	66.7	64.6	65.0	68.6	74.7	81.2	84.2	85.2	86.4	87.1	86.6	86.6	87.1	86.5	85.5	85.2	84.1	81.1	78.6	77.5	73.6
23.5	69.0	76.4	87.4	79.8	78.3	79.0	82.2	88.1	94.1	95.2	96.5	98.0	99.8	97.9	97.8	98.1	97.9	96.6	96.5	95.5	91.4	88.5	87.7	84.1
21.5	73.2	84.2	89.9	92.0	94.0	95.5	96.6	98.8	102.1	102.1	102.1	103.1	104.1	103.1	104.1	103.1	102.1	101.1	100.1	96.0	92.9	91.5	88.1	
19.5	74.7	86.4	95.0	102.1	108.1	110.1	108.1	106.1	105.1	104.1	105.1	105.1	104.1	104.1	104.1	104.1	103.1	102.1	100.1	96.7	93.5	91.3	87.5	
17.5	76.8	89.5	99.8	109.1	117.1	120.1	117.1	113.1	110.1	108.1	107.1	107.1	106.1	106.1	106.1	104.1	104.1	102.1	98.3	95.0	92.6	88.7		
15.5	79.5	93.3	104.1	112.1	120.1	123.1	121.1	117.1	114.1	112.1	110.1	111.1	111.1	110.1	109.1	110.1	109.1	108.1	107.1	106.1	101.1	97.6	95.6	92.0
13.5	79.6	94.0	104.1	111.1	117.1	120.1	118.1	116.1	115.1	113.1	111.1	112.1	112.1	111.1	110.1	109.1	108.1	107.1	106.1	105.1	99.1	95.9	91.6	
11.5	77.0	90.3	99.2	105.1	110.1	113.1	112.1	111.1	110.1	108.1	108.1	109.1	109.1	108.1	108.1	107.1	106.1	105.1	103.1	99.1	95.1	92.2	87.2	
9.5	74.0	86.0	94.0	99.0	103.1	105.1	106.1	106.1	106.1	105.1	104.1	105.1	105.1	104.1	104.1	103.1	102.1	101.1	99.2	95.4	91.9	88.7	83.8	
7.5	73.2	85.2	92.5	96.9	101.1	103.1	103.1	103.1	104.1	104.1	103.1	104.1	104.1	103.1	103.1	102.1	101.1	100.1	98.7	94.5	90.7	88.2	83.8	
5.5	71.2	84.0	93.2	96.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	
3.5	65.5	75.6	81.3	84.4	87.5	89.4	89.3	89.9	91.2	91.1	90.5	91.3	91.6	90.6	90.4	91.0	90.2	88.9	88.6	87.2	83.5	80.5	79.3	76.2
1.5	56.5	63.7	68.2	70.9	73.2	74.5	75.0	75.6	76.7	76.8	76.6	77.0	77.1	76.7	76.5	76.6	76.0	75.1	74.4	73.3	70.7	68.3	66.7	64.4

1.0 3.0 5.0 7.0 9.0 11.0 13.0 15.0 17.0 19.0 21.0 23.0 25.0 27.0 29.0 31.0 33.0 35.0 37.0 39.0 41.0 43.0 45.0 47.0
 X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 13:48 9-Mar-95
 PROJECT: 32-130 AREA: LABORATORY-N GRID: GRID
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

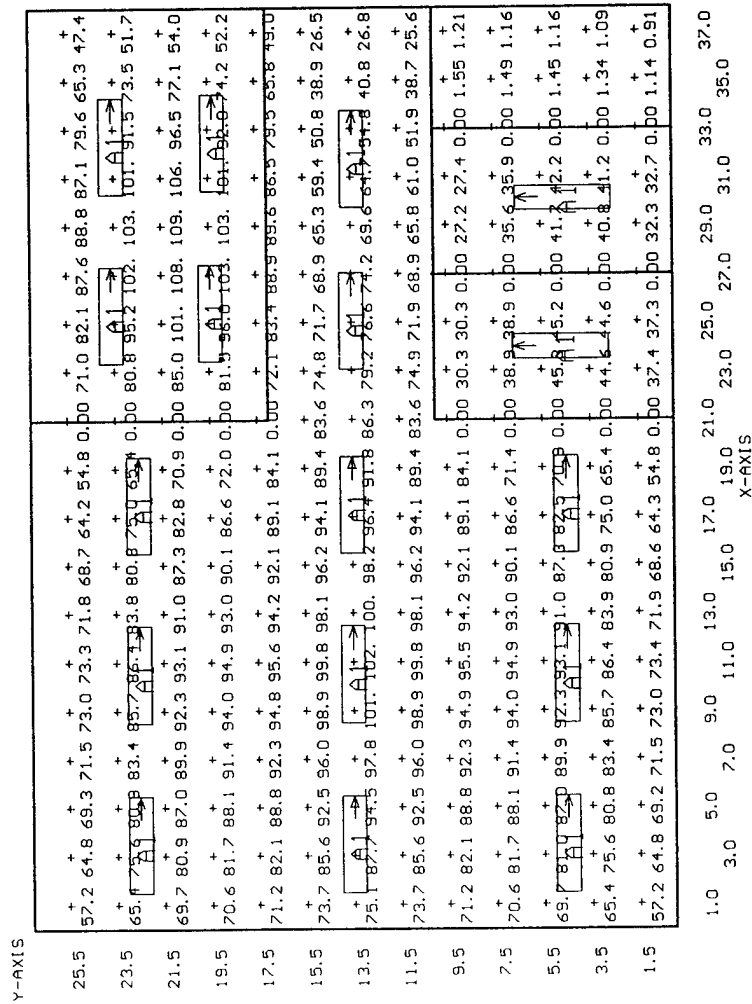
+ MIN=32.2 MAX=69.0 AVE=52.3 AVE/MIN= 1.62 MAX/MIN= 2.14

AR <21> = T11272 METALOPTICS ISS04SSWWS042EP11, <2> F032/35K, LLF= 0.66



+ MIN=0.00	MAX=109.	AVE=67.4	AVE/MIN=N/A	MAX/MIN=N/A

AI <17> = K7983L COLUMBIA KP440, <4> F40CW, LLF= 0.68



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 13:53 9-Mar-95
 PROJECT: 32-130 AREA: SUB LAB-N GRID: GRID
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=0.00 MAX=62.3 AVE=36.8 AVE/MIN=N/A MAX/MIN=N/A

AR <17> = T11272 METALOPTICS ISS04SSWS042EP11, <2> F032/35K, LLF= 0.66

Y-AXIS

25.5	32.6	37.3	40.0	41.3	42.3	42.6	41.6	39.8	37.1	31.5	0.00	40.1	46.7	49.9	50.5	49.6	45.3	36.9	26.5	+	
23.5	34.2	39.8	42.6	43.8	45.1	45.2	43.9	42.2	39.2	34.8	0.00	40.3	48.0	51.2	51.5	50.4	45.9	36.9	25.9	+	
21.5	36.9	43.0	46.3	47.7	49.1	49.5	48.3	46.3	44.1	37.7	0.00	48.1	57.3	61.7	62.3	60.9	55.2	43.8	30.2	+	
19.5	40.5	47.4	51.3	53.2	54.9	55.5	54.3	52.6	50.6	41.9	0.00	41.4	48.8	51.8	52.1	51.0	46.7	37.8	26.4	+	
17.5	40.6	47.2	51.0	52.9	54.9	55.4	54.4	53.1	51.5	48.6	0.00	41.0	47.6	50.8	51.1	49.4	45.4	37.4	27.5	+	
15.5	41.3	48.3	52.2	54.2	55.8	56.4	55.4	54.3	53.0	50.2	47.0	42.1	40.5	39.1	37.2	33.8	28.9	22.0	14.8	+	
13.5	36.2	41.9	44.9	46.4	47.8	48.2	47.1	46.1	45.1	42.7	39.9	36.0	34.4	33.4	31.3	29.0	24.5	18.4	12.1	+	
11.5	41.3	48.3	52.3	54.2	55.8	56.4	55.4	54.3	53.0	50.2	47.0	42.1	40.4	39.0	37.3	34.6	29.3	21.7	14.1	+	
9.5	40.6	47.2	51.0	52.9	54.9	55.4	54.4	53.1	51.5	48.6	0.00	16.1	16.1	16.1	0.00	14.5	14.3	0.00	0.81	0.63	+
7.5	40.5	47.4	51.3	53.2	55.0	55.5	54.3	52.6	50.6	41.6	0.00	20.7	20.8	0.00	19.2	18.8	0.00	0.78	0.61	+	
5.5	36.9	43.0	46.3	47.7	49.1	49.5	48.3	46.3	44.1	37.7	0.00	24.4	24.3	0.00	22.6	22.2	0.00	0.76	0.60	+	
3.5	34.3	39.8	42.5	43.8	45.1	45.3	43.9	42.4	39.3	34.3	0.00	23.9	24.0	0.00	22.1	21.6	0.00	0.70	0.57	+	
1.5	32.5	37.3	40.0	41.3	42.3	42.6	41.6	39.7	37.1	31.5	0.00	19.9	20.0	0.00	17.4	17.0	0.00	0.59	0.48	+	

1.0 3.0 5.0 7.0 9.0 11.0 13.0 15.0 17.0 19.0 21.0 23.0 25.0 27.0 29.0 31.0 33.0 35.0 37.0
 X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 13:55 6-Feb-95
 PROJECT: 32-130 AREA: RESTROOM GRID: GRID
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=3.27 MAX=48.0 AVE=23.7 AVE/MIN= 7.23 MAX/MIN= 14.65

B2 <2> = B17088 PRESCOLITE HD13C07, <1> 200A23/1F, LLF= 0.60

Y-AXIS

11.0	+	3.59	+	10.7	+	28.2	+	35.1	+	20.0	+
9.0	+	4.46	+	15.6	+	42.3	+	47.4	+	30.0	+
7.0	+	4.53	+	13.9	+	37.1	+	46.2	+	25.5	+
5.0	+	4.55	+	14.5	+	39.4	+	48.0	+	26.9	+
3.0	+	4.29	+	14.9	+	40.7	+	46.1	+	28.5	+
1.0	+	3.27	+	8.71	+	21.9	+	27.5	+	15.9	+

1.0 3.0 5.0 7.0 9.0
 X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 13:58 9-Mar-95
 PROJECT: 32-130 AREA: RESTROOM-N GRID: GRID
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=2.48 MAX=27.7 AVE=15.4 AVE/MIN= 6.24 MAX/MIN= 11.21

CF <2> = B2339B PRESCOLITE CFR926-B782, <3> F26DTT/27K, LLF= 0.50

Y-AXIS

11.0	+	2.57	+	9.31	+	16.1	+	19.2	+	14.3
9.0	+	3.99	+	12.3	+	22.9	CF+	27.0	+	19.8
7.0	+	3.39	+	13.5	+	23.6	+	27.7	+	20.3
5.0	+	3.46	+	13.4	+	23.7	+	27.7	+	20.4
3.0	+	3.91	+	12.1	+	22.2	CF+	25.7	+	18.9
1.0	+	2.48	+	8.50	+	14.8	+	17.3	+	12.9

1.0 3.0 5.0 7.0 9.0
 X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:00 6-Feb-95
 PROJECT: 32-130 AREA: STORAGE GRID: GRID
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=18.1 MAX=59.3 AVE=36.9 AVE/MIN= 2.03 MAX/MIN= 3.27

C1 <2> = K9604 COLUMBIA WCW240-A, <2> F40CW, LLF= 0.68

Y-AXIS

9.0	+	18.5	+	24.9	+	32.2	+	35.8	+	37.5	+
7.0	+	23.7	+	35.1	+	46.2	+	51.3	+	58.9	+
5.0	+	26.0	+	40.2	+	53.5	+	59.3	+	64.8	+
3.0	+	23.5	+	34.9	+	45.8	+	50.9	+	58.1	+
1.0	+	18.1	+	24.6	+	31.2	+	34.9	+	32.7	+

1.0 3.0 5.0 7.0 9.0 11.0 13.0
 X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:02 9-Mar-95
 PROJECT: 32-130 AREA: STORAGE-N GRID: GRID
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=6.49 MAX=32.2 AVE=17.6 AVE/MIN= 2.71 MAX/MIN= 4.96

C8 <1> = K9604 COLUMBIA WCW240-A, <2> F032/35K, LLF= 0.66

Y-AXIS

9.0	+	12.6	+	16.6	+	18.1	+	16.6	+	11.6	+	6.49
7.0	+	16.8	+	24.2	+	27.3	+	23.8	+	15.8	+	8.52
5.0	+	18.6	+	28.0	+	32.2	+	27.6	+	17.7	+	9.53
3.0	+	16.5	+	24.0	+	27.0	+	23.6	+	15.7	+	8.51
1.0	+	12.2	+	16.2	+	17.7	+	16.1	+	11.4	+	6.53

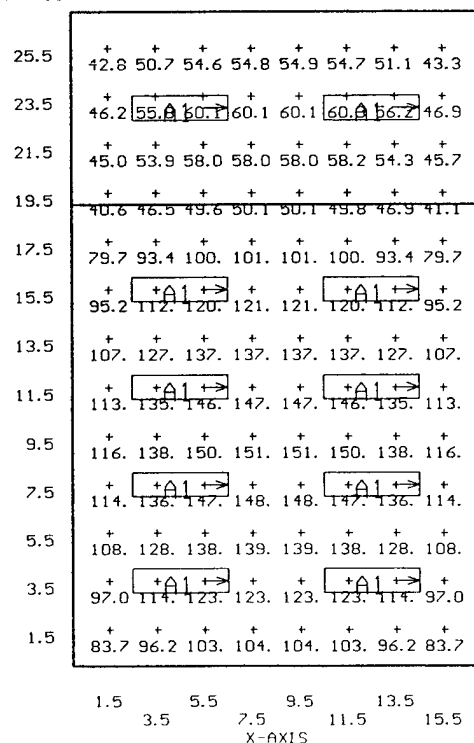
1.0 3.0 5.0 7.0 9.0 11.0 13.0
 X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:10 6-Feb-95
 PROJECT: 32-130 AREA: TESTING GRID: Ceiling
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=40.6 MAX=151. AVE=99.1 AVE/MIN= 2.44 MAX/MIN= 3.72

A1 <10> = K7983L COLUMBIA KP440, (4) F40CW, LLF= 0.68

Y-AXIS

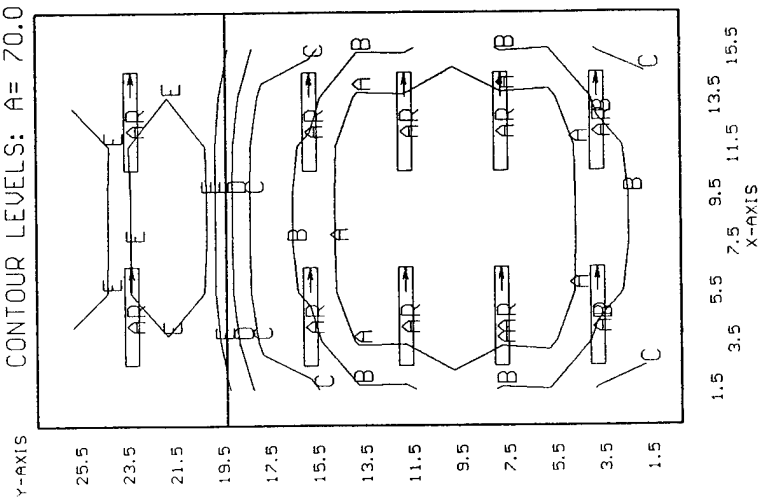


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:04 9-Mar-95
 PROJECT: 32-130 AREA: TESTING-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=22.8 MAX=86.1 AVE=53.9 AVE/MIN= 2.36 MAX/MIN= 3.77

AR <10> = T11272 METALOPTICS ISS04SSWWS042EP11, <2> F032/35K, LLF= 0.66

CONTOUR LEVELS: A= 70.0 B= 60.0 C= 50.0 D= 40.0 E= 30.0



Bldg 32-150 Summary

Present System

Fixture Type	Watts/ Fixture	Number Fixtures	Total Watts
A1	83	24	1,992
Totals		24	1,992

Replacement System

Fixture Type	Watts/ Fixture	Number Fixtures	Total Watts
AR	59	4	236
A8	59	20	1,180
Totals		24	1,416

32-150 Schedule

Reynolds, Smith & Hills, Inc.
4651 Salisbury Road
Jacksonville, FL 32256
Buildings Engineering

Luminaire Fixture Schedule
Generated by LitePro V2.27E
Provided and supported by USI Lighting, Inc.
Filename: 32-150 Type: Indoor

Luminaire Fixture Schedule /PRESENT

Project name: PBA Lighting Survey - Bldg 32-150
Prepared for: CORP OF ENGINEERS
Prepared by: R. SHARMA

Project #6941331
Date: 6-Feb-95
UPD: 1.6W/Sq.Ft

TYPE	DESCRIPTION	LAMP/BALLAST	V/W	QTY	REMARKS
A1	15"X4'2L CEILING MT.WRAPAROUND LENS- PRISMATIC W/ GLOW ENDS COLUMBIA WCW240-A	F40CW ESB	000 - 83	24	

NOTES:

32-150 Schedule

Reynolds, Smith & Hills, Inc.
4651 Salisbury Road
Jacksonville, FL 32256
Buildings Engineering

Luminaire Fixture Schedule
Generated by LitePro V2.27E
Provided and supported by USI Lighting, Inc.
Filename: 32-150 Type: Indoor

Luminaire Fixture Schedule / **PROPOSED**

Project name: PBA Lighting Survey - Bldg 32-150
Prepared for: CORP OF ENGINEERS
Prepared by: R. SHARMA

Project #6941331
Date: 9-Mar-95
UPD: 1.1W/Sq.Ft

TYPE	DESCRIPTION	LAMP/BALLAST	V/W	QTY	REMARKS
A8	15"X4'2L CEILING MT.WRAPAROUND LENS- PRISMATIC W/ GLOW ENDS COLUMBIA WCW240-A	FO32/35K EOCT	000 - 59	20	
AR	4' ACRYLIC LENS WRAPAPOUND SILVER NORMAL BEAM REFLECTOR METALOPTICS WRSN4SNACLO42EP11	FO32/35K EOCT	000 - 59	4	

NOTES:

Reynolds, Smith & Hills, Inc.
 4651 Salisbury Road
 Jacksonville, FL 32256
 Buildings Engineering

Project Area Summary
 Generated by LitePro V2.27E
 Provided and supported by USI Lighting, Inc.
 Filename: 32-150 Type: Indoor

Project Area Summary

Project name: PBA Lighting Survey - Bldg 32-150
 Prepared for: CORP OF ENGINEERS
 Prepared by: R. SHARMA

Project #6941331
 Date: 9-Mar-95
 UPD: 1.4W/Sq.Ft

AREA NAME	DIMENSIONS	LUMINAIRES	W/SQ.FT	QTY
OFFICE #1	10x19x8Ft	(4) Type A1	1.8	1
OFFICE #1-N	10x19x8Ft	(4) Type A8	1.3	1
OFFICE #2	14x19x8Ft	(4) Type A1	1.3	1
OFFICE #2-N	14x19x8Ft	(4) Type A8	0.9	1
OFFICE #3	14x13x8Ft	(4) Type A1	1.9	1
OFFICE #3-N	14x13x8Ft	(4) Type A8	1.3	1
OFFICE #4	16x13x8Ft	(4) Type A1	1.7	1
OFFICE #4-N	16x13x8Ft	(4) Type A8	1.2	1
OFFICE #5	15x19x8Ft	(4) Type A1	1.2	1
OFFICE #5-N	15x19x8Ft	(4) Type AR	0.8	1
RESTROOM #1	6x6x8Ft	(1) Type A1	2.5	1
RESTROOM #1-N	6x6x8Ft	(1) Type A8	1.8	1
RESTROOM #2	8x6x8Ft	(1) Type A1	2.0	1
RESTROOM #2-N	8x6x8Ft	(1) Type A8	1.4	1
RESTROOM #3	8x6x8Ft	(1) Type A1	2.0	2
RESTROOM #3-N	8x6x8Ft	(1) Type A8	1.4	2

32-150 Calculations

Reynolds, Smith & Hills, Inc.
 4651 Salisbury Road
 Jacksonville, FL 32256
 Buildings Engineering

Project Calculation Summary
 Generated by LitePro V2.27E
 Provided and supported by USI Lighting, Inc.
 Filename: 32-150 Type: Indoor

Project Calculation Summary

Project name: PBA Lighting Survey - Bldg 32-150
 Prepared for: CORP OF ENGINEERS
 Prepared by: R. SHARMA

Project #6941331
 Date: 9-Mar-95
 UPD: 1.4W/Sq.Ft

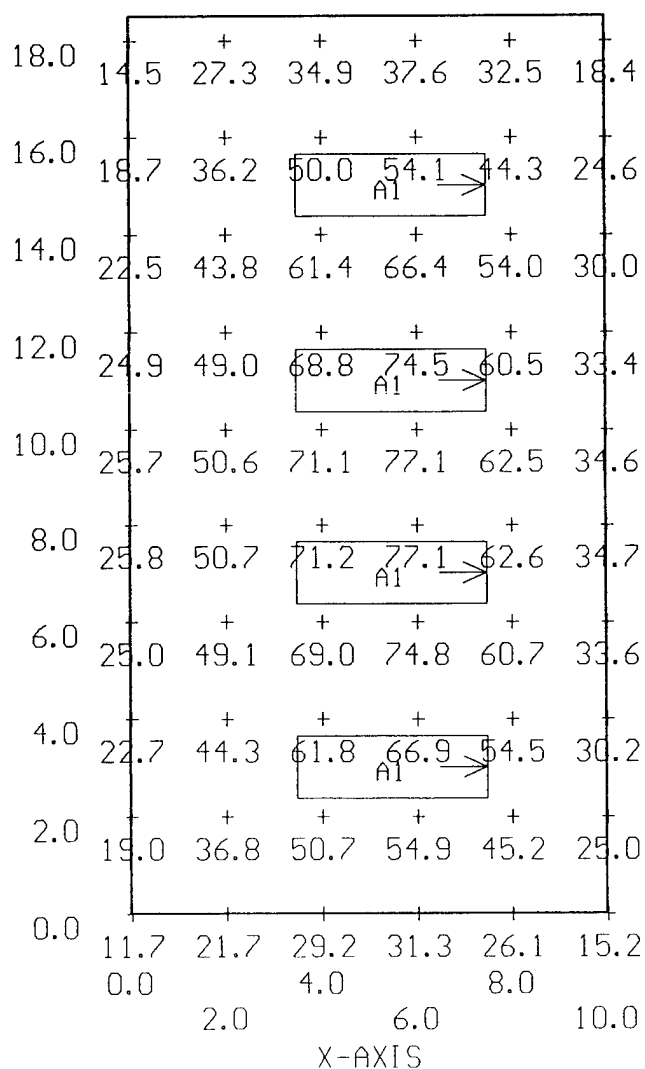
AREA NAME	DIMENSIONS	GRID NAME	AVE	MAX	MIN
OFFICE #1	10x19x8Ft	GRID	<+> 43.1	77.1	11.7
OFFICE #1-N	10x19x8Ft	GRID	<+> 38.4	68.8	10.4
OFFICE #2	14x19x8Ft	GRID	<+> 33.2	48.4	10.1
OFFICE #2-N	14x19x8Ft	GRID	<+> 29.6	43.2	9.0
OFFICE #3	14x13x8Ft	GRID	<+> 42.8	55.3	19.4
OFFICE #3-N	14x13x8Ft	GRID	<+> 38.2	49.3	17.3
OFFICE #4	16x13x8Ft	GRID	<+> 40.3	58.9	13.7
OFFICE #4-N	16x13x8Ft	GRID	<+> 36.0	52.6	12.2
OFFICE #5	15x19x8Ft	GRID	<+> 30.3	44.0	11.7
OFFICE #5-N	15x19x8Ft	GRID	<+> 29.6	47.1	11.0
RESTROOM #1	6x6x8Ft	GRID	<+> 30.5	42.7	17.9
RESTROOM #1-N	6x6x8Ft	GRID	<+> 27.2	38.1	16.0
RESTROOM #2	8x6x8Ft	GRID	<+> 30.2	42.4	15.2
RESTROOM #2-N	8x6x8Ft	GRID	<+> 26.9	37.8	13.6
RESTROOM #3	8x6x8Ft	GRID	<+> 30.2	42.4	15.2
RESTROOM #3-N	8x6x8Ft	GRID	<+> 26.9	37.8	13.6

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 17:25 6-Feb-95
 PROJECT: 32-150 AREA: OFFICE #1 GRID: GRID
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=11.7 MAX=77.1 AVE=43.1 AVE/MIN= 3.68 MAX/MIN= 6.59

A1 <4> = K9604 COLUMBIA WCW240-A, <2> F40CW, LLF= 0.68

Y-AXIS

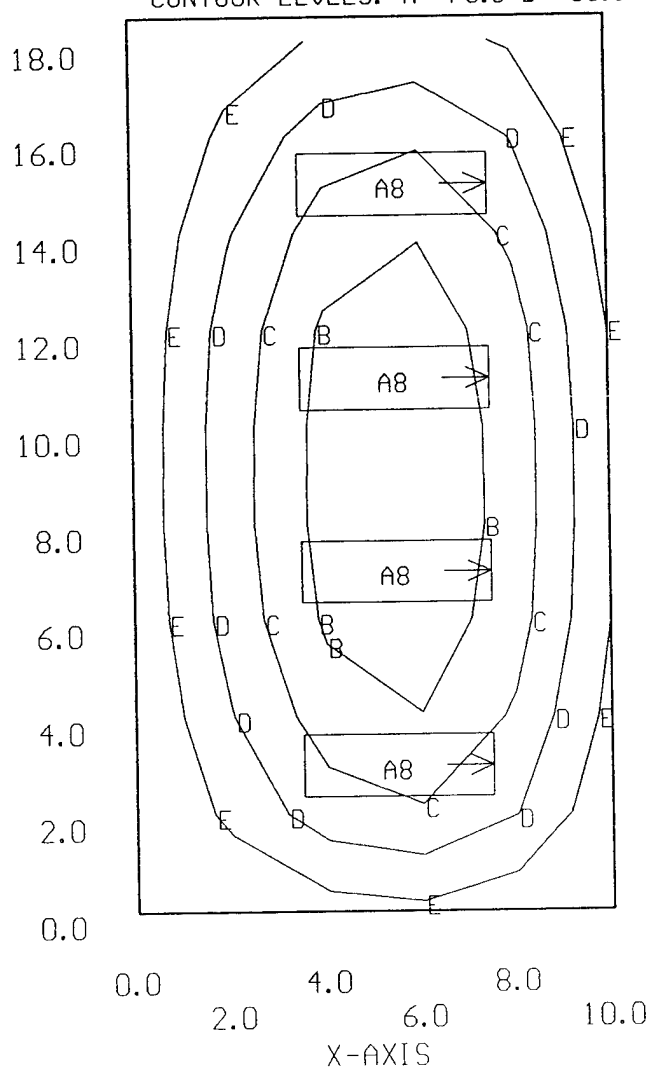


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:26 9-Mar-95
 PROJECT: 32-150 AREA: OFFICE #1-N GRID: GRID
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=10.4 MAX=68.8 AVE=38.4 AVE/MIN= 3.68 MAX/MIN= 6.59

A8 <4> = K9604 COLUMBIA WCW240-A, <2> F032/35K, LLF= 0.66

Y-AXIS CONTOUR LEVELS: A= 70.0 B= 60.0 C= 50.0 D= 40.0 E= 30.0

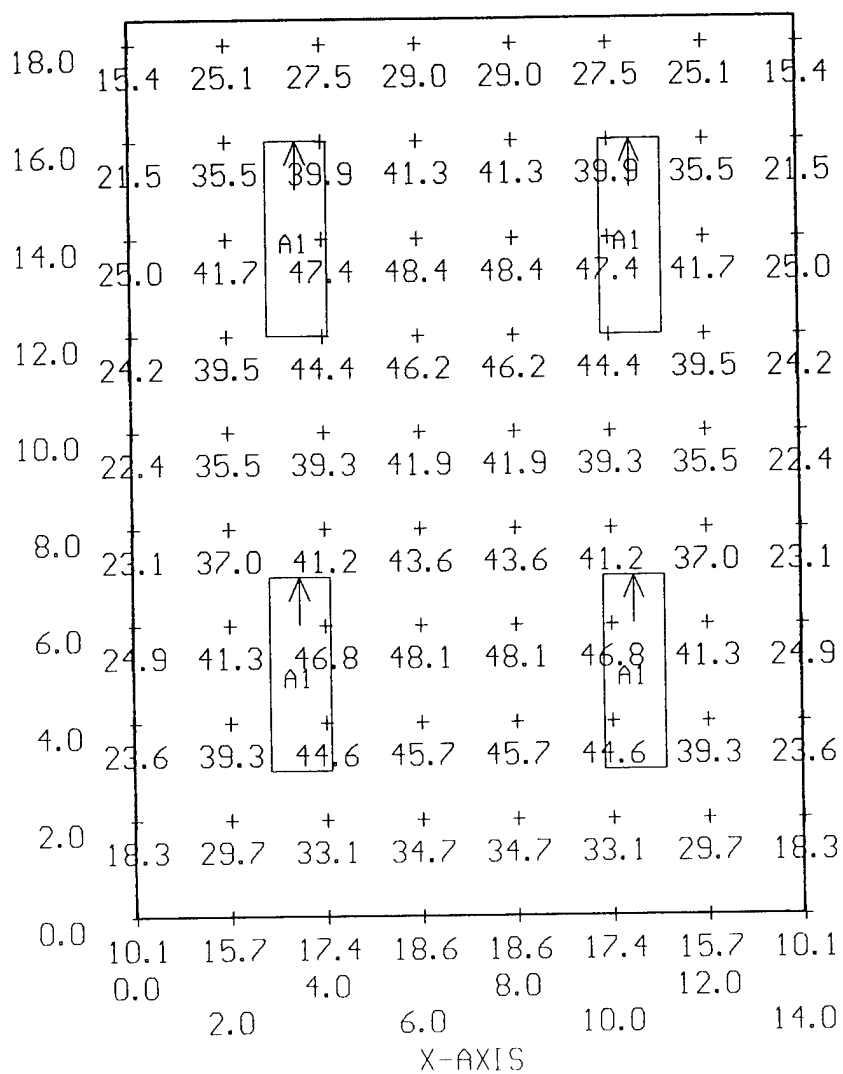


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 17:30 6-Feb-95
 PROJECT: 32-150 AREA: OFFICE #2 GRID: GRID
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=10.1 MAX=48.4 AVE=33.2 AVE/MIN= 3.30 MAX/MIN= 4.81

A1 <4> = K9604 COLUMBIA WCW240-A, <2> F40CW, LLF= 0.68

Y-AXIS

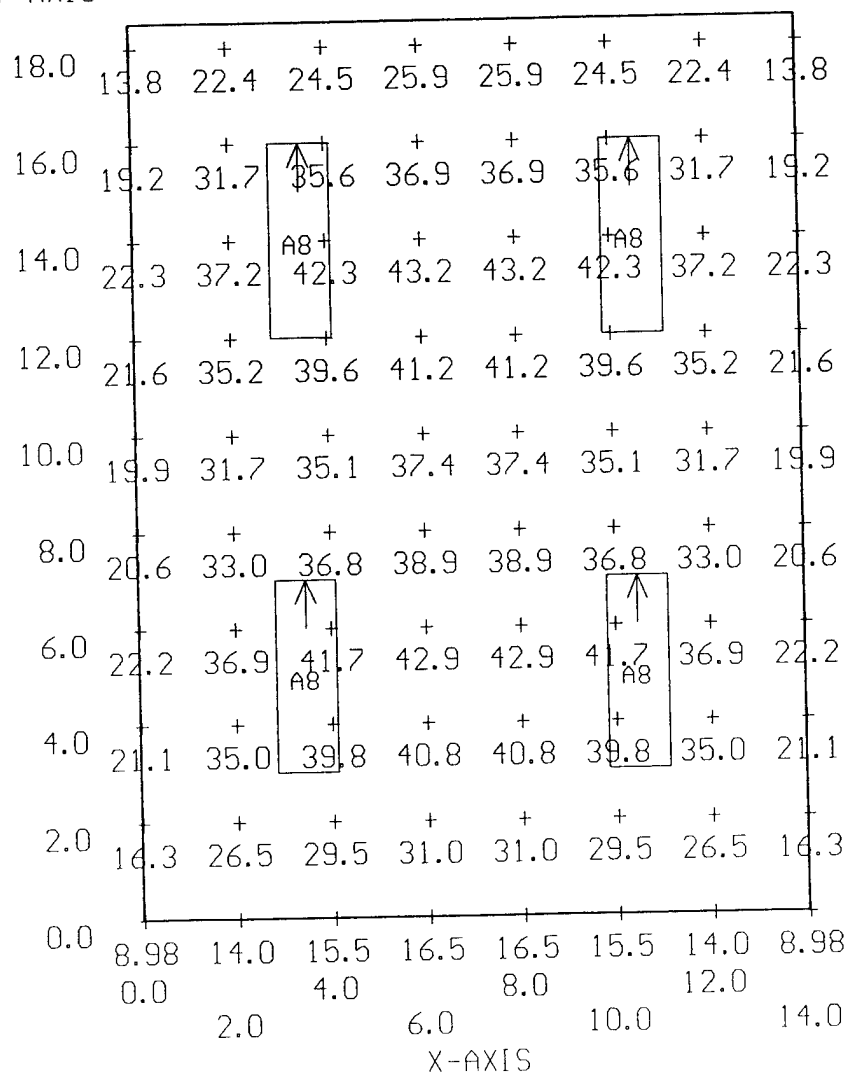


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:30 9-Mar-95
 PROJECT: 32-150 AREA: OFFICE #2-N GRID: GRID
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=8.98 MAX=43.2 AVE=29.6 AVE/MIN= 3.30 MAX/MIN= 4.81

A8 <4> = K9604 COLUMBIA WCW240-A, <2> F032/35K, LLF= 0.66

Y-AXIS

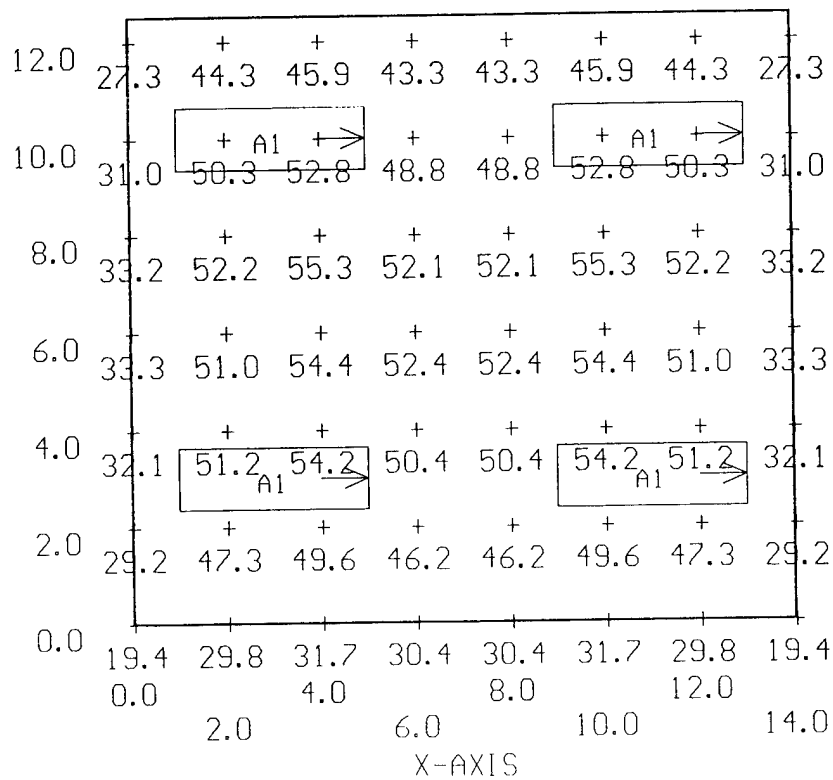


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 17:33 6-Feb-95
 PROJECT: 32-150 AREA: OFFICE #3 GRID: GRID
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=19.4 MAX=55.3 AVE=42.8 AVE/MIN= 2.21 MAX/MIN= 2.85

A1 <4> = K9604 COLUMBIA WCW240-A, (2) F40CW, LLF= 0.68

Y-AXIS

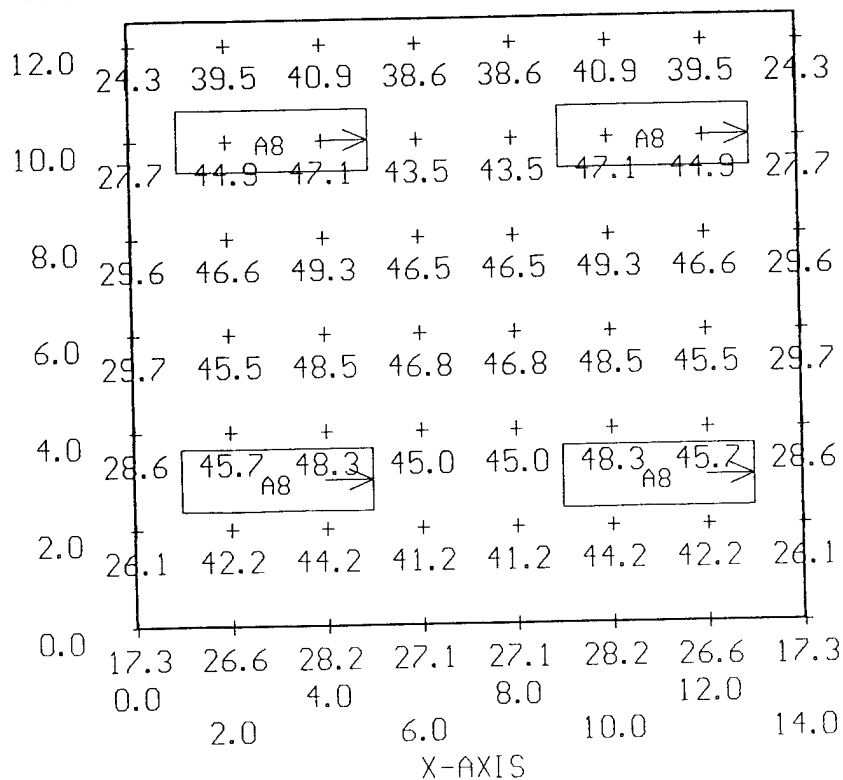


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:31 9-Mar-95
 PROJECT: 32-150 AREA: OFFICE #3-N GRID: GRID
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=17.3 MAX=49.3 AVE=38.2 AVE/MIN= 2.21 MAX/MIN= 2.85

A8 <4> = K9604 COLUMBIA WCW240-A, (2) F032/35K, LLF= 0.66

Y-AXIS

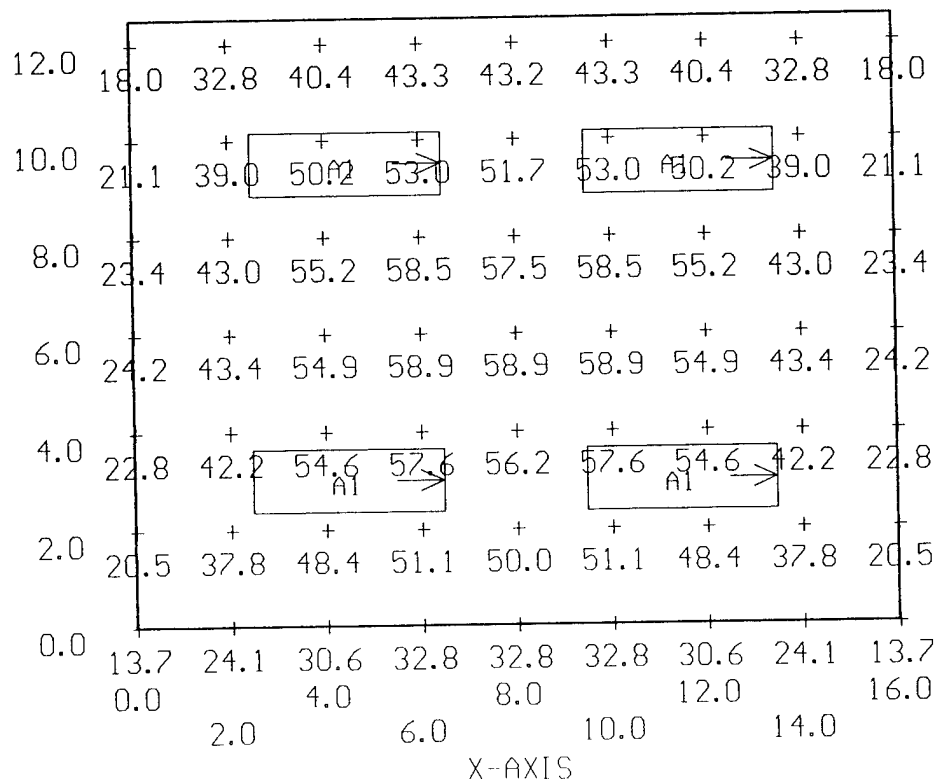


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 17:34 6-Feb-95
PROJECT: 32-150 AREA: OFFICE #4 GRID: GRID
Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
Computed in accordance with IES recommendations

+ MIN=13.7 MAX=58.9 AVE=40.3 AVE/MIN= 2.95 MAX/MIN= 4.31

A1 <4> = K9604 COLUMBIA WCW240-A, (2) F40CW, LLF= 0.68

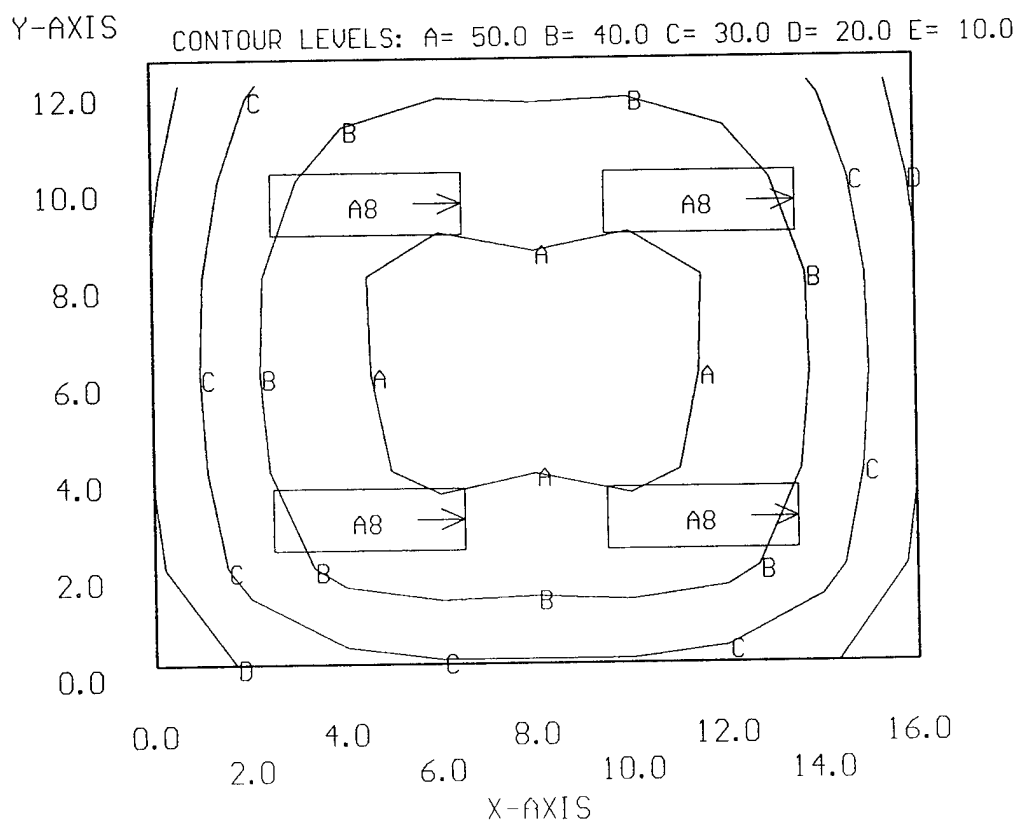
Y-AXIS



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:34 9-Mar-95
 PROJECT: 32-150 AREA: OFFICE #4-N GRID: GRID
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=12.2 MAX=52.6 AVE=36.0 AVE/MIN= 2.95 MAX/MIN= 4.31

A8 <4> = K9604 COLUMBIA WCW240-A, <2> F032/35K, LLF= 0.66

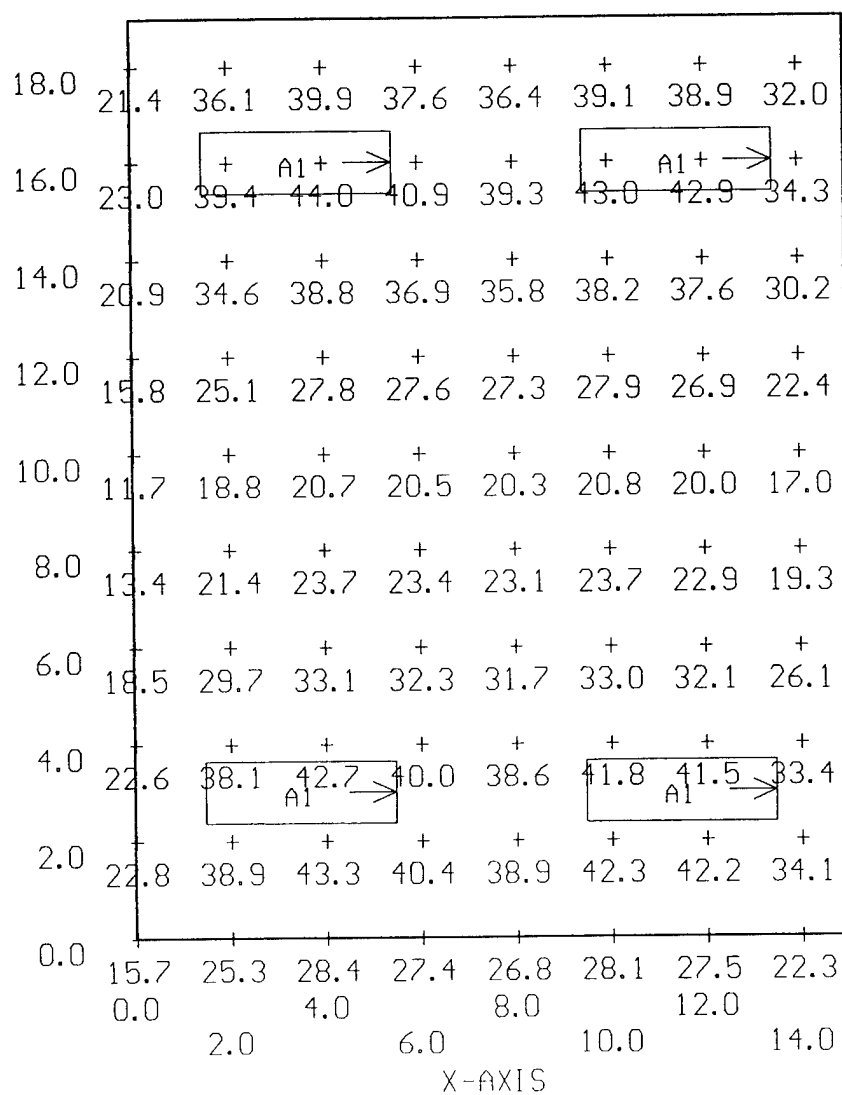


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 17:35 6-Feb-95
 PROJECT: 32-150 AREA: OFFICE #5 GRID: GRID
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=11.7 MAX=44.0 AVE=30.3 AVE/MIN= 2.59 MAX/MIN= 3.76

A1 <4> = K9604 COLUMBIA WCW240-A, <2> F40CW, LLF= 0.68

Y-AXIS

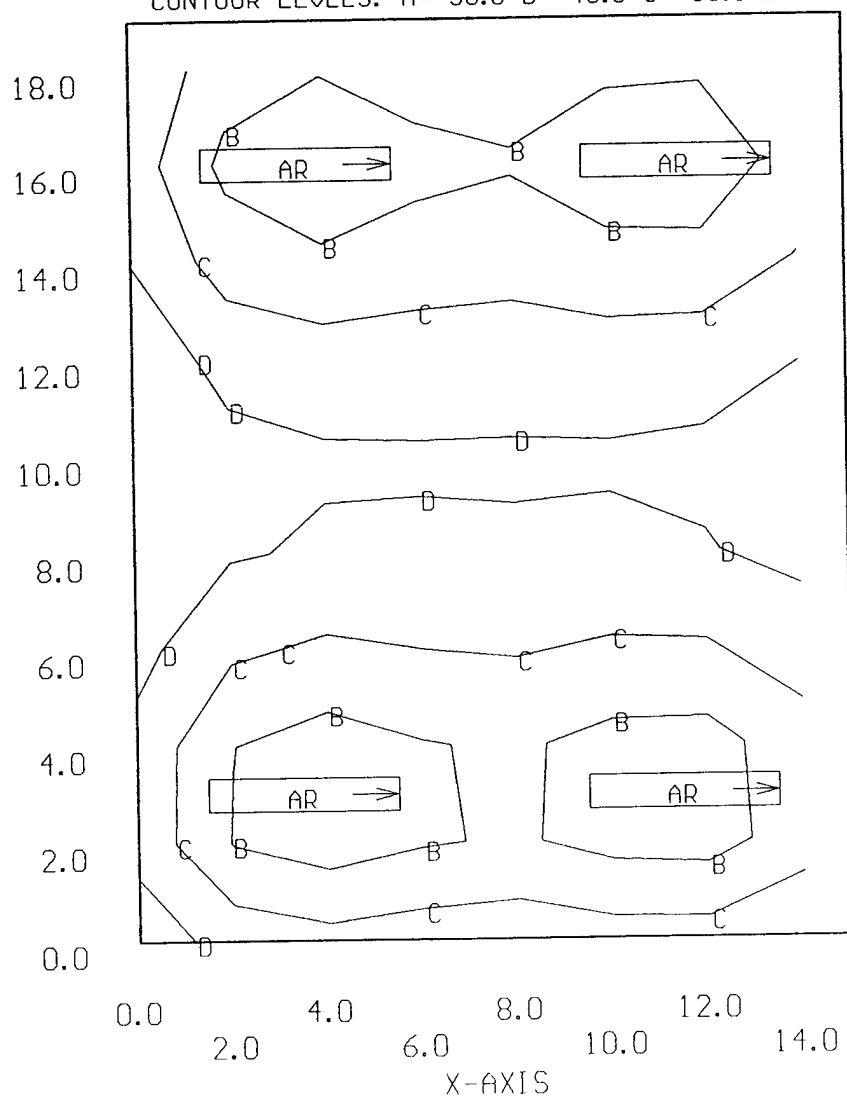


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:40 9-Mar-95
 PROJECT: 32-150 AREA: OFFICE #5-N GRID: GRID
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=11.0 MAX=47.1 AVE=29.6 AVE/MIN= 2.70 MAX/MIN= 4.29

AR <4> = T10394 METALOPTICS WRSN4SNACLO42EP11, <2> F032/35K, LLF= 0.66

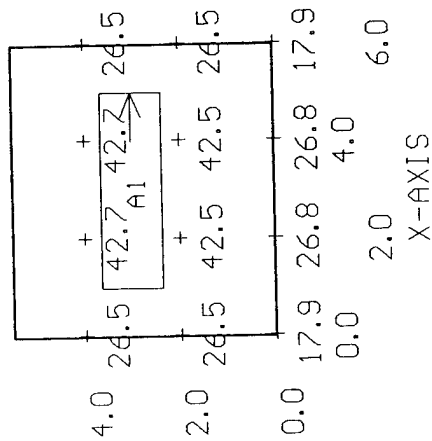
Y-AXIS CONTOUR LEVELS: A= 50.0 B= 40.0 C= 30.0 D= 20.0 E= 10.0



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 17:36 6-Feb-95
 PROJECT: 32-150 AREA: RESTROOM #1 GRID: GRID
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations
 + MIN=17.9 MAX=42.7 AVE=30.5 AVE/MIN= 1.70 MAX/MIN= 2.39

A1 <1> = K9604 COLUMBIA WCW240-A, (2) F40CW, LLF= 0.68

Y-AXIS

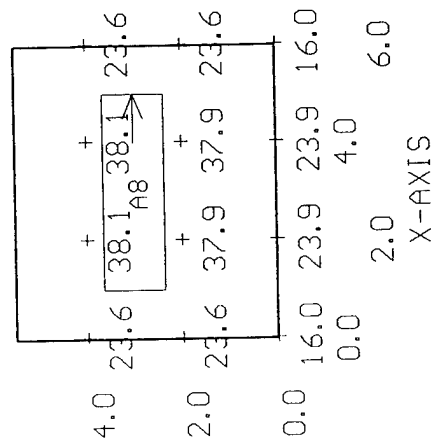


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:42 9-Mar-95
 PROJECT: 32-150 AREA: RESTROOM #1-N GRID: GRID
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=16.0 MAX=38.1 AVE=27.2 AVE/MIN= 1.70 MAX/MIN= 2.39

A8 <1> = K9604 COLUMBIA WCW240-A, <2> F032/35K, LLF= 0.66

Y-AXIS

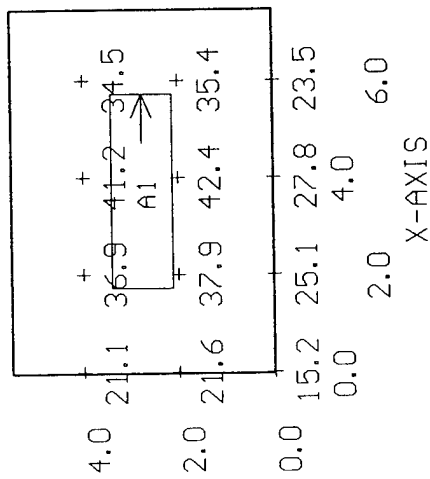


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 17:37 6-Feb-95
 PROJECT: 32-150 AREA: RESTROOM #2 GRID: GRID
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=15.2 MAX=42.4 AVE=30.2 AVE/MIN= 1.98 MAX/MIN= 2.78

A1 <1> = K9604 COLUMBIA WCW240-A, <2> F40CW, LLF= 0.68

Y-AXIS

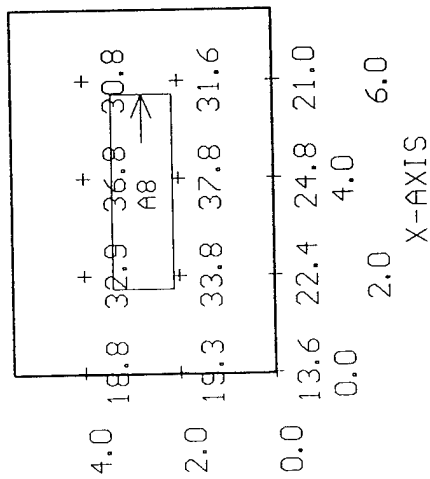


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:46 9-Mar-95
 PROJECT: 32-150 AREA: RESTROOM #2-N GRID: GRID
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=13.6 MAX=37.8 AVE=26.9 AVE/MIN= 1.98 MAX/MIN= 2.78

A8 <1> = K9604 COLUMBIA WCW240-A, <2> F032/35K, LLF= 0.66

Y-AXIS

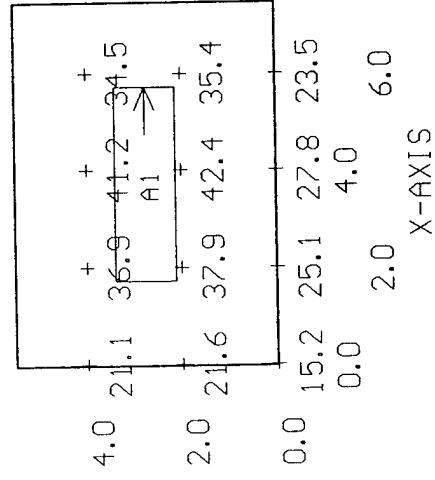


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 17:38 6-Feb-95
 PROJECT: 32-150 AREA: RESTROOM #3 GRID: GRID
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=15.2 MAX=42.4 AVE=30.2 AVE/MIN= 1.98 MAX/MIN= 2.78

A1 <2> = K9604 COLUMBIA WCW240-A, (2) F40CW, LLF= 0.68

Y-AXIS

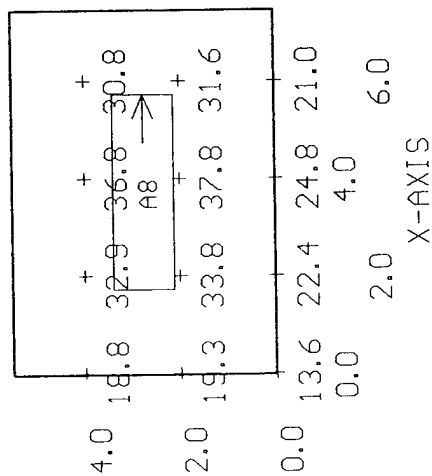


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:50 9-Mar-95
 PROJECT: 32-150 AREA: RESTROOM #3-N GRID: GRID
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=13.6 MAX=37.8 AVE=26.9 AVE/MIN= 1.98 MAX/MIN= 2.78

A8 <2> = K9604 COLUMBIA WCW240-A, <2> F032/35K, LLF= 0.66

Y-AXIS



Bldg 33-060 Summary

Present System

Fixture Type	Watts/ Fixture	Number Fixtures	Total Watts
A1	158	6	948
B1	136	3	408
D	100	1	100
Totals		10	1,456

Replacement System

Fixture Type	Watts/ Fixture	Number Fixtures	Total Watts
A8	105	6	630
B8	91	3	273
D	100	1	100
Totals		10	1,003

33-060 Schedule

Reynolds, Smith & Hills, Inc.
4651 Salisbury Road
Jacksonville, FL 32256
Buildings Engineering

Luminaire Fixture Schedule
Generated by LitePro V2.27E
Provided and supported by USI Lighting, Inc.
Filename: 33-060 Type: Indoor

Luminaire Fixture Schedule / **PRESENT**

Project name: PBA Lighting Survey - Bldg 33-060
Prepared for: CORP OF ENGINEERS
Prepared by: R. SHARMA

Project #6941331
Date: 7-Feb-95
UPD: 0.3W/Sq.Ft

TYPE	DESCRIPTION	LAMP/BALLAST	V/W	QTY	REMARKS
A1	4"X8'2L EMBOSSSED SURFACE STRIP OPEN BOTTOM- NO SHIELDING COLUMBIA CS296	F96T12/CW ESB	000 - 158	6	
B1	1X4 3L SOLID REFL.INDUSTRIAL OPEN - NO SHIELDING COLUMBIA KL340-SOLID	F40CW ESB	000 - 136	3	
D	6" RECESSED ROUND DOWNLIGHT OPEN- BL.BAFFLE W/ WIDE TRIM PRESCOLITE PBX-TB12	100A19/IF NA	000 - 100	1	

NOTES:

33-060 Schedule

Reynolds, Smith & Hills, Inc.
4651 Salisbury Road
Jacksonville, FL 32256
Buildings Engineering

Luminaire Fixture Schedule
Generated by LitePro V2.27E
Provided and supported by USI Lighting, Inc.
Filename: 33-060 Type: Indoor

Luminaire Fixture Schedule / *PROPOSED*

Project name: PBA Lighting Survey - Bldg 33-060
Prepared for: CORP OF ENGINEERS
Prepared by: R. SHARMA

Project #6941331
Date: 9-Mar-95
UPD: 0.2W/Sq.Ft

TYPE	DESCRIPTION	LAMP/BALLAST	V/W	QTY	REMARKS
A8	4"X8'2L EMBOSSSED SURFACE STRIP OPEN BOTTOM- NO SHIELDING COLUMBIA CS296	FO96/735 EOCT	000 - 105	6	
R8	1X4 3L SOLID REFL.INDUSTRIAL OPEN - NO SHIELDING COLUMBIA KL340-SOLID	FO32/35K EOCT	000 - 91	3	
D	6" RECESSED ROUND DOWNLIGHT OPEN- BL.BAFFLE W/ WIDE TRIM PRESCOLITE PBX-TB12	100A19/IF NA	000 - 100	1	

NOTES:

33-060 Areas

Reynolds, Smith & Hills, Inc.
4651 Salisbury Road
Jacksonville, FL 32256
Buildings Engineering

Project Area Summary
Generated by LitePro V2.27E
Provided and supported by USI Lighting, Inc.
Filename: 33-060 Type: Indoor

Project Area Summary

Project name: PBA Lighting Survey - Bldg 33-060
Prepared for: CORP OF ENGINEERS
Prepared by: R. SHARMA

Project #6941331
Date: 9-Mar-95
UPD: 0.3W/Sq.Ft

AREA NAME	DIMENSIONS	LUMINAIRES	W/SQ.FT	QTY
COMPRESSOR ROOM	33x48x25Ft	(6) Type A1	0.6	1
COMPRESSOR RM-N	33x48x25Ft	(6) Type A8	0.4	1
BOILER ROOM	54x60x25Ft	(3) Type B1 (1) Type D	0.2	1
BOILER ROOM-N	54x60x25Ft	(3) Type B8 (1) Type D	0.1	1

NOTES:

33-060 Calculations

Reynolds, Smith & Hills, Inc.
4651 Salisbury Road
Jacksonville, FL 32256
Buildings Engineering

Project Calculation Summary
Generated by LitePro V2.27E
Provided and supported by USI Lighting, Inc.
Filename: 33-060 Type: Indoor

Project Calculation Summary

Project name: PBA Lighting Survey - Bldg 33-060
Prepared for: CORP OF ENGINEERS
Prepared by: R. SHARMA

Project #6941331
Date: 9-Mar-95
UPD: 0.3W/Sq.Ft

AREA NAME	DIMENSIONS	GRID NAME	AVE	MAX	MIN
COMPRESSOR ROOM	33x48x25Ft	GRID	<+> 19.3	36.7	5.4
COMPRESSOR RM-N	33x48x25Ft	GRID	<+> 17.1	32.6	4.8
BOILER ROOM	54x60x25Ft	grid	<+> 3.2	13.8	0.2
BOILER ROOM-N	54x60x25Ft	grid	<+> 3.0	13.5	0.2

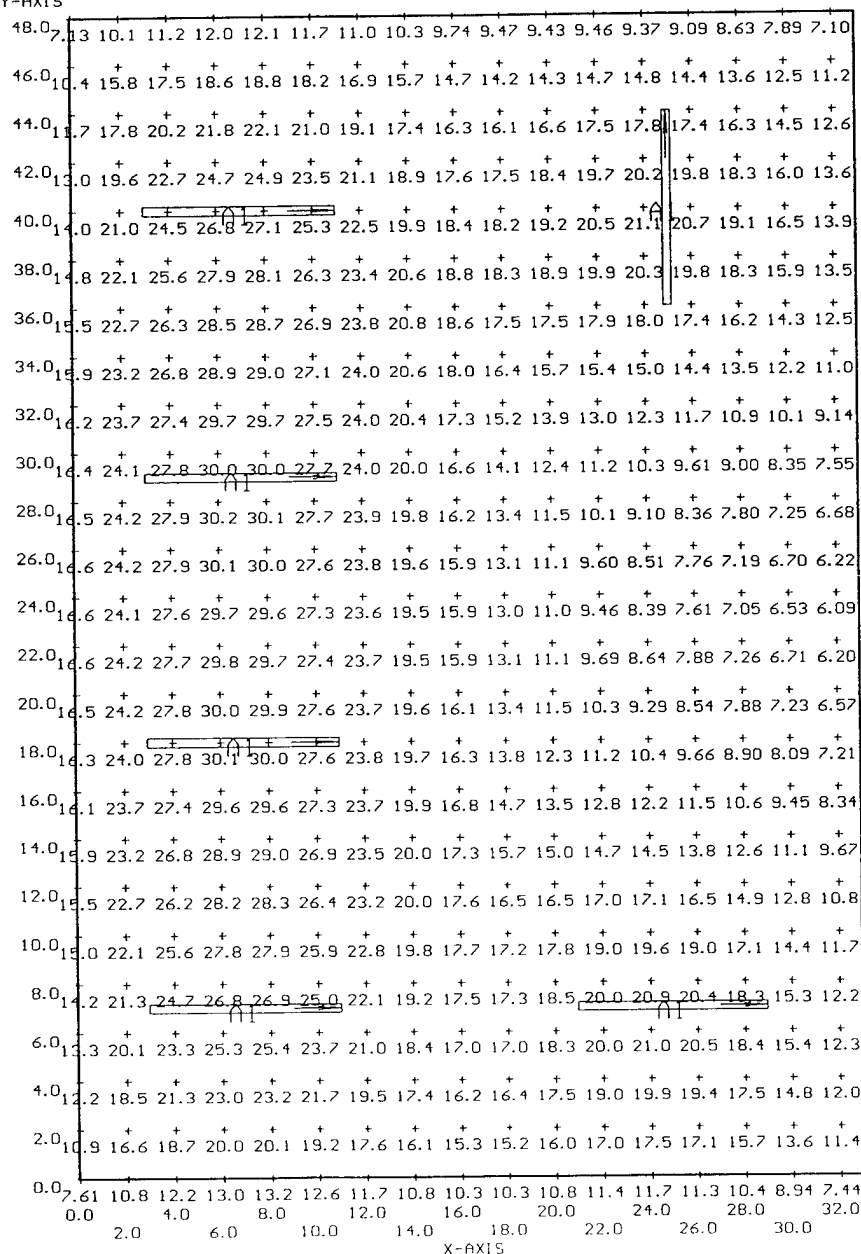
NOTES:

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 09:20 7-Feb-95
 PROJECT: 33-060 AREA: COMPRESSOR ROOM GRID: GRID
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=6.09 MAX=30.2 AVE=17.6 AVE/MIN= 2.90 MAX/MIN= 4.95

A1 <6> = K7994 COLUMBIA CS296, (2) F96T12/CW, LLF= 0.72

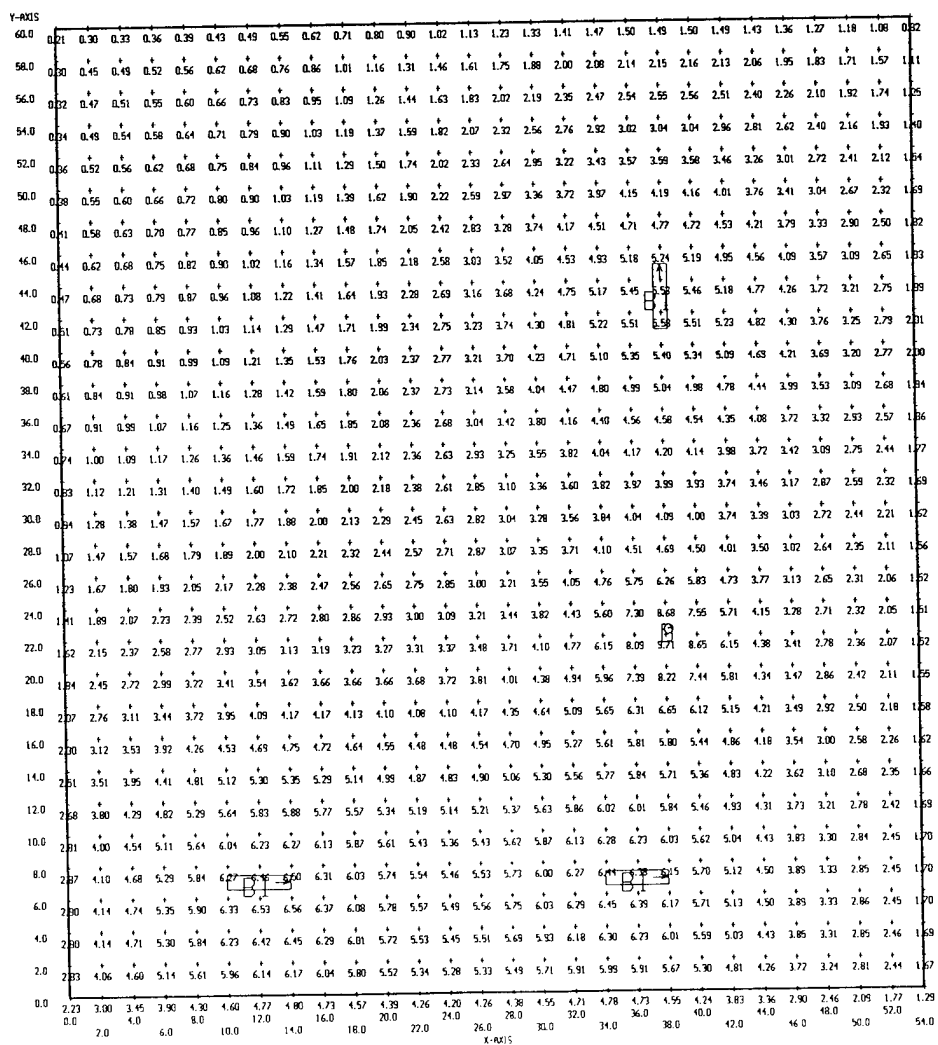
Y-AXIS



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 09:24 7-Feb-95
 PROJECT: 33-060 AREA: BOILER ROOM GRID: grid
 Values are FC, SCALE: 1 IN= 12.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=0.21 MAX=9.71 AVE=3.25 AVE/MIN= 14.88 MAX/MIN= 44.52

B1 <3> = 10366 COLUMBIA KL340-SOLID, <3> F40CW, LLF= 0.68
 D <1> = B1401C PRESCOLITE PBX-TB12, <1> 100A19/IF, LLF= 0.76



Bldg 33-530 Summary

Present System

Fixture Type	Watts/ Fixture	Number Fixtures	Total Watts
A1	210	60	12,600
B1	195	23	4,485
Totals		83	17,085

Replacement System

Fixture Type	Watts/ Fixture	Number Fixtures	Total Watts
I4	59	73	4,307
Totals		73	4,307

33-530 Schedule

Reynolds, Smith & Hills, Inc.
4651 Salisbury Road
Jacksonville, FL 32256
Buildings Engineering

Luminaire Fixture Schedule
Generated by LitePro V2.27E
Provided and supported by USI Lighting, Inc.
Filename: 33-530 Type: Indoor

Luminaire Fixture Schedule / ~~PRESENT~~

Project name: PBA Lighting Survey - Bldg 33-530
Prepared for: Corps of Engineers
Prepared by: C. Warren

Project #6941331
Date: 8-Feb-95
UPD: 2.4W/Sq.Ft

TYPE	DESCRIPTION	LAMP/BALLAST	V/W	QTY	REMARKS
A1	7"RECESS ROUND DOWNLIGHT,WIDE OPEN-CLR.ALZAK REFL.(20DEG CO) MOLDCAST C-2729	HR175RDXFL39 STD	000 - 210	60	
B1	SC = 1.3 GE LIGHTING PGMA15S	LU-150 STD	000 - 195	23	

NOTES:

33-530 Schedule

Reynolds, Smith & Hills, Inc.
4651 Salisbury Road
Jacksonville, FL 32256
Buildings Engineering

Luminaire Fixture Schedule
Generated by LitePro V2.27E
Provided and supported by USI Lighting, Inc.
Filename: 33-530 Type: Indoor

Luminaire Fixture Schedule / ~~PROPOSED~~

Project name: PBA Lighting Survey - Bldg 33-530
Prepared for: Corps of Engineers
Prepared by: C. Warren

Project #6941331
Date: 9-Mar-95
UPD: 0.6W/Sq.Ft

TYPE	DESCRIPTION	LAMP/BALLAST	V/W	QTY	REMARKS
I4	1X4 2L SOLID REFL.INDUSTRIAL OPEN- NO SHIELDING COLUMBIA CSR240-PAF-EOCT	FO32/35K EOCT	000 - 59	73	

NOTES:

33-530 Areas

Reynolds, Smith & Hills, Inc.
4651 Salisbury Road
Jacksonville, FL 32256
Buildings Engineering

Project Area Summary
Generated by LitePro V2.27E
Provided and supported by USI Lighting, Inc.
Filename: 33-530 Type: Indoor

Project Area Summary

Project name: PBA Lighting Survey - Bldg 33-530
Prepared for: Corps of Engineers
Prepared by: C. Warren

Project #6941331
Date: 9-Mar-95
UPD: 1.5W/Sq.Ft

AREA NAME	DIMENSIONS	LUMINAIRES	W/SQ.FT	QTY
NORTH END	47x60x20Ft	(35) Type A1 (6) Type B1	3.0	1
NORTH END-N	47x60x20Ft	(28) Type I4	0.6	1
SOUTH END	47x60x20Ft	(25) Type A1 (5) Type B1	2.2	1
SOUTH END-N	47x60x20Ft	(30) Type I4	0.6	1
NE CORNER	49x32x20Ft	(12) Type B1	1.5	1
NE CORNER-N	49x32x20Ft	(15) Type I4	0.6	1
NOTES:				

33-530 Calculations

Reynolds, Smith & Hills, Inc.
4651 Salisbury Road
Jacksonville, FL 32256
Buildings Engineering

Project Calculation Summary
Generated by LitePro V2.27E
Provided and supported by USI Lighting, Inc.
Filename: 33-530 Type: Indoor

Project Calculation Summary

Project name: PBA Lighting Survey - Bldg 33-530
Prepared for: Corps of Engineers
Prepared by: C. Warren

Project #6941331
Date: 9-Mar-95
UPD: 1.5W/Sq.Ft

AREA NAME	DIMENSIONS	GRID NAME	AVE	MAX	MIN
NORTH END	47x60x20Ft	Ceiling	<+> 38.8	73.4	0.1
NORTH END-N	47x60x20Ft	Ceiling	<+> 27.6	35.9	0.0
SOUTH END	47x60x20Ft	Ceiling	<+> 29.3	54.8	16.0
SOUTH END-N	47x60x20Ft	Ceiling	<+> 30.3	36.1	19.7
NE CORNER	49x32x20Ft	Ceiling	<+> 38.2	59.6	15.3
NE CORNER-N	49x32x20Ft	Ceiling	<+> 28.5	36.7	14.7

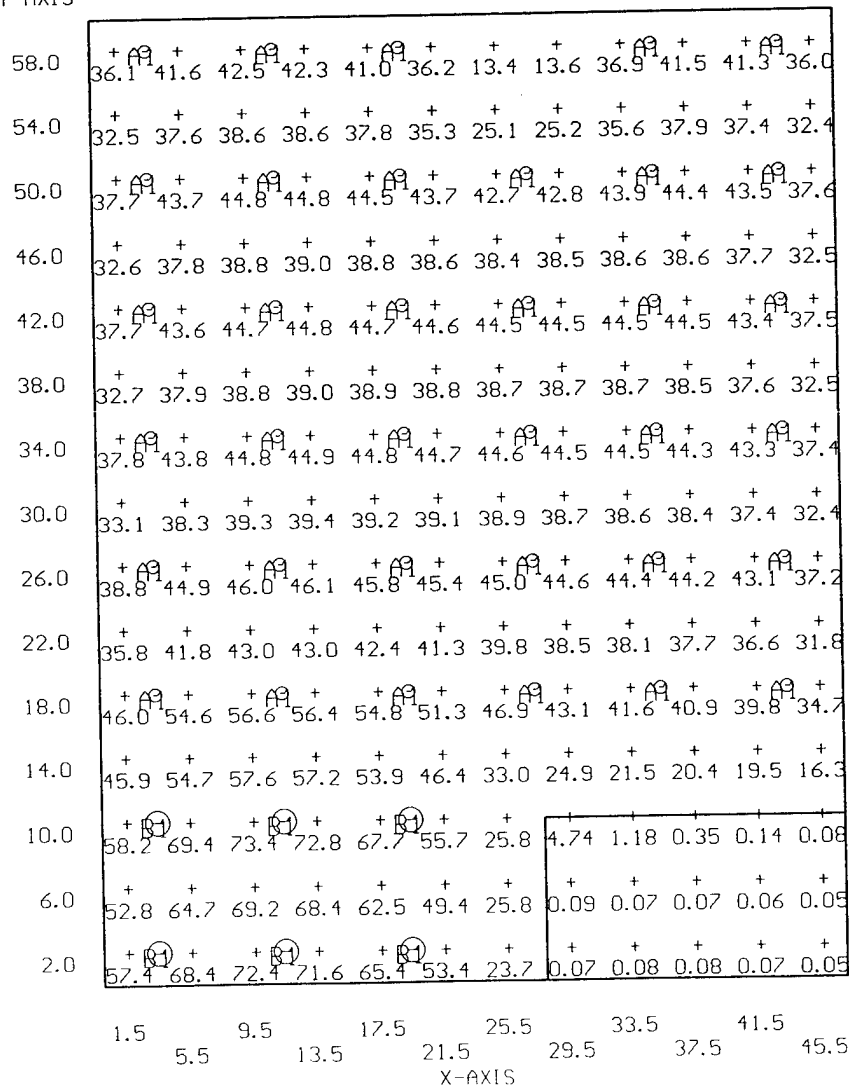
NOTES:

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 10:51 8-Feb-95
 PROJECT: 33-530 AREA: NORTH END GRID: Ceiling
 Values are FC, SCALE: 1 IN= 12.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=0.05 MAX=73.4 AVE=38.8 AVE/MIN= 775.30 MAX/MIN=1465.16

A1 <35> = M13104 MOLDCAST C-2729, (1) HR175RDXFL39, LLF= 0.53
 B1 <6> = GE7404 GE LIGHTING PGMA15S, (1) LU-150, LLF= 0.78

Y-AXIS

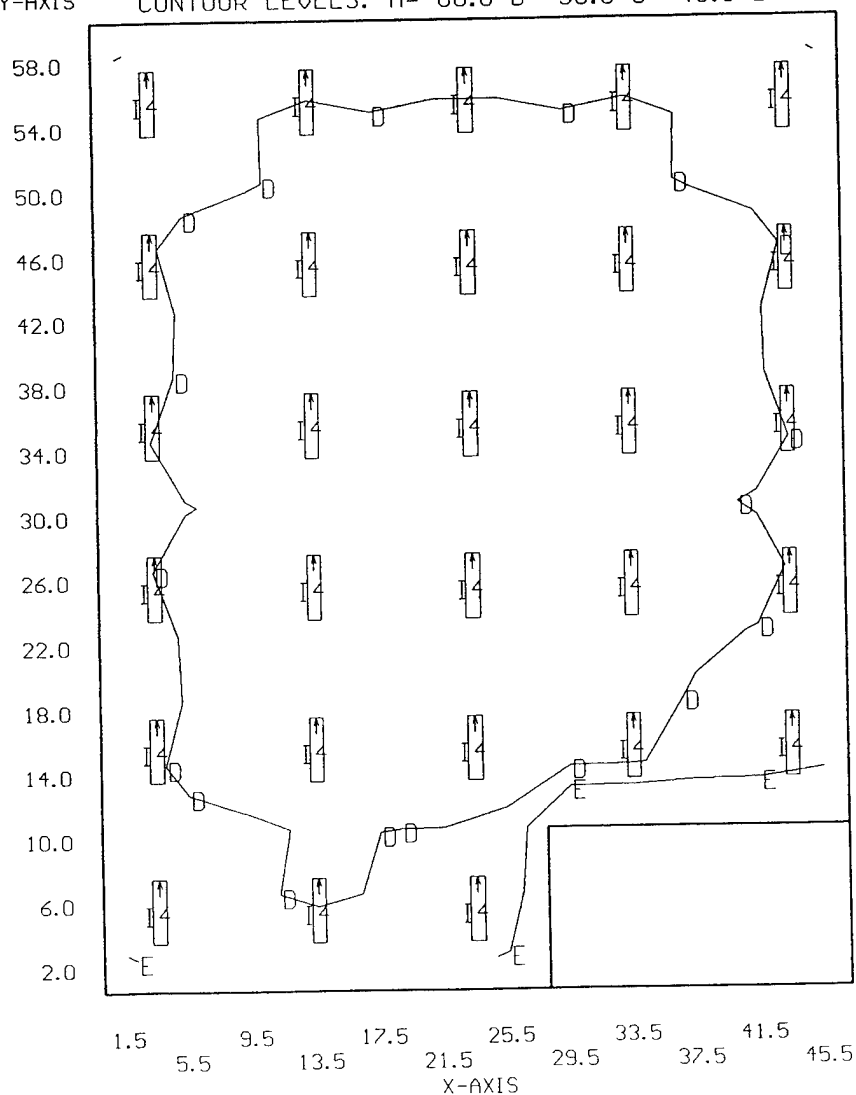


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 15:33 9-Mar-95
 PROJECT: 33-530 AREA: NORTH END-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 12.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=0.00 MAX=35.9 AVE=27.6 AVE/MIN=N/A MAX/MIN=N/A

I4 <28> = 10331 COLUMBIA CSR240-PAF-EOCT, <2> F032/35K, LLF= 0.66

Y-AXIS CONTOUR LEVELS: A= 60.0 B= 50.0 C= 40.0 D= 30.0 E= 20.0



USI's LITEXPRO V2.27E Point-By-Point Numeric Output 11:02 8-Feb-95
 PROJECT: 33-530 AREA: NE CORNER GRID: Ceiling
 Values are FC, SCALE: 1 IN= 12.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=15.3 MAX=59.6 AVE=38.2 AVE/MIN= 2.51 MAX/MIN= 3.91

B1 <12> = GE7404 GE LIGHTING PGMA155, <1> LU-150, LLF= 0.78

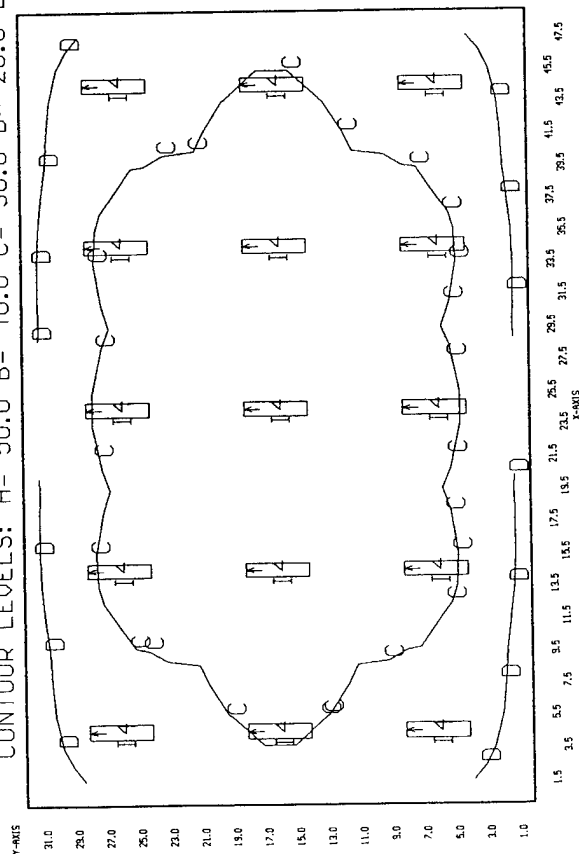
15.3	16.0	16.7	17.4	18.1	18.8	19.5	20.2	20.9	21.6	22.3	23.0	23.7	24.4	25.1	25.8	26.5	27.2	27.9	28.6	29.3	30.0	30.7	31.4	32.1	32.8	33.5	34.2	34.9	35.6	36.3	37.0	37.7	38.4	39.1	39.8	40.5	41.2	41.9	42.6	43.3	44.0	44.7	45.4	46.1	46.8	47.5	48.2	48.9	49.6	50.3	51.0	51.7	52.4	53.1	53.8	54.5	55.2	55.9	56.6	57.3	58.0	58.7	59.4	60.1	60.8	61.5	62.2	62.9	63.6	64.3	65.0	65.7	66.4	67.1	67.8	68.5	69.2	69.9	70.6	71.3	72.0	72.7	73.4	74.1	74.8	75.5	76.2	76.9	77.6	78.3	79.0	79.7	80.4	81.1	81.8	82.5	83.2	83.9	84.6	85.3	86.0	86.7	87.4	88.1	88.8	89.5	90.2	90.9	91.6	92.3	93.0	93.7	94.4	95.1	95.8	96.5	97.2	97.9	98.6	99.3	100.0	100.7	101.4	102.1	102.8	103.5	104.2	104.9	105.6	106.3	107.0	107.7	108.4	109.1	109.8	110.5	111.2	111.9	112.6	113.3	114.0	114.7	115.4	116.1	116.8	117.5	118.2	118.9	119.6	120.3	121.0	121.7	122.4	123.1	123.8	124.5	125.2	125.9	126.6	127.3	128.0	128.7	129.4	130.1	130.8	131.5	132.2	132.9	133.6	134.3	135.0	135.7	136.4	137.1	137.8	138.5	139.2	139.9	140.6	141.3	142.0	142.7	143.4	144.1	144.8	145.5	146.2	146.9	147.6	148.3	149.0	149.7	150.4	151.1	151.8	152.5	153.2	153.9	154.6	155.3	156.0	156.7	157.4	158.1	158.8	159.5	160.2	160.9	161.6	162.3	163.0	163.7	164.4	165.1	165.8	166.5	167.2	167.9	168.6	169.3	170.0	170.7	171.4	172.1	172.8	173.5	174.2	174.9	175.6	176.3	177.0	177.7	178.4	179.1	179.8	180.5	181.2	181.9	182.6	183.3	184.0	184.7	185.4	186.1	186.8	187.5	188.2	188.9	189.6	190.3	191.0	191.7	192.4	193.1	193.8	194.5	195.2	195.9	196.6	197.3	198.0	198.7	199.4	200.1	200.8	201.5	202.2	202.9	203.6	204.3	205.0	205.7	206.4	207.1	207.8	208.5	209.2	209.9	210.6	211.3	212.0	212.7	213.4	214.1	214.8	215.5	216.2	216.9	217.6	218.3	219.0	219.7	220.4	221.1	221.8	222.5	223.2	223.9	224.6	225.3	226.0	226.7	227.4	228.1	228.8	229.5	230.2	230.9	231.6	232.3	233.0	233.7	234.4	235.1	235.8	236.5	237.2	237.9	238.6	239.3	240.0	240.7	241.4	242.1	242.8	243.5	244.2	244.9	245.6	246.3	247.0	247.7	248.4	249.1	249.8	250.5	251.2	251.9	252.6	253.3	254.0	254.7	255.4	256.1	256.8	257.5	258.2	258.9	259.6	260.3	261.0	261.7	262.4	263.1	263.8	264.5	265.2	265.9	266.6	267.3	268.0	268.7	269.4	270.1	270.8	271.5	272.2	272.9	273.6	274.3	275.0	275.7	276.4	277.1	277.8	278.5	279.2	279.9	280.6	281.3	282.0	282.7	283.4	284.1	284.8	285.5	286.2	286.9	287.6	288.3	289.0	289.7	290.4	291.1	291.8	292.5	293.2	293.9	294.6	295.3	296.0	296.7	297.4	298.1	298.8	299.5	300.2	300.9	301.6	302.3	303.0	303.7	304.4	305.1	305.8	306.5	307.2	307.9	308.6	309.3	310.0	310.7	311.4	312.1	312.8	313.5	314.2	314.9	315.6	316.3	317.0	317.7	318.4	319.1	319.8	320.5	321.2	321.9	322.6	323.3	324.0	324.7	325.4	326.1	326.8	327.5	328.2	328.9	329.6	330.3	331.0	331.7	332.4	333.1	333.8	334.5	335.2	335.9	336.6	337.3	338.0	338.7	339.4	340.1	340.8	341.5	342.2	342.9	343.6	344.3	345.0	345.7	346.4	347.1	347.8	348.5	349.2	349.9	350.6	351.3	352.0	352.7	353.4	354.1	354.8	355.5	356.2	356.9	357.6	358.3	359.0	359.7	360.4	361.1	361.8	362.5	363.2	363.9	364.6	365.3	366.0	366.7	367.4	368.1	368.8	369.5	370.2	370.9	371.6	372.3	373.0	373.7	374.4	375.1	375.8	376.5	377.2	377.9	378.6	379.3	380.0	380.7	381.4	382.1	382.8	383.5	384.2	384.9	385.6	386.3	387.0	387.7	388.4	389.1	389.8	390.5	391.2	391.9	392.6	393.3	394.0	394.7	395.4	396.1	396.8	397.5	398.2	398.9	399.6	400.3	401.0	401.7	402.4	403.1	403.8	404.5	405.2	405.9	406.6	407.3	408.0	408.7	409.4	410.1	410.8	411.5	412.2	412.9	413.6	414.3	415.0	415.7	416.4	417.1	417.8	418.5	419.2	419.9	420.6	421.3	422.0	422.7	423.4	424.1	424.8	425.5	426.2	426.9	427.6	428.3	429.0	429.7	430.4	431.1	431.8	432.5	433.2	433.9	434.6	435.3	436.0	436.7	437.4	438.1	438.8	439.5	440.2	440.9	441.6	442.3	443.0	443.7	444.4	445.1	445.8	446.5	447.2	447.9	448.6	449.3	450.0	450.7	451.4	452.1	452.8	453.5	454.2	454.9	455.6	456.3	457.0	457.7	458.4	459.1	459.8	460.5	461.2	461.9	462.6	463.3	464.0	464.7	465.4	466.1	466.8	467.5	468.2	468.9	469.6	470.3	471.0	471.7	472.4	473.1	473.8	474.5	475.2	475.9	476.6	477.3	478.0	478.7	479.4	480.1	480.8	481.5	482.2	482.9	483.6	484.3	485.0	485.7	486.4	487.1	487.8	488.5	489.2	489.9	490.6	491.3	492.0	492.7	493.4	494.1	494.8	495.5	496.2	496.9	497.6	498.3	499.0	499.7	500.4	501.1	501.8	502.5	503.2	503.9	504.6	505.3	506.0	506.7	507.4	508.1	508.8	509.5	510.2	510.9	511.6	512.3	513.0	513.7	514.4	515.1	515.8	516.5	517.2	517.9	518.6	519.3	520.0	520.7	521.4	522.1	522.8	523.5	524.2	524.9	525.6	526.3	527.0	527.7	528.4	529.1	529.8	530.5	531.2	531.9	532.6	533.3	534.0	534.7	535.4	536.1	536.8	537.5	538.2	538.9	539.6	540.3	541.0	541.7	542.4	543.1	543.8	544.5	545.2	545.9	546.6	547.3	548.0	548.7	549.4	550.1	550.8	551.5	552.2	552.9	553.6	554.3	555.0	555.7	556.4	557.1	557.8	558.5	559.2	559.9	560.6	561.3	562.0	562.7	563.4	564.1	564.8	565.5	566.2	566.9	567.6	568.3	569.0	569.7	570.4	571.1	571.8	572.5	573.2	573.9	574.6	575.3	576.0	576.7	577.4	578.1	578.8	579.5	580.2	580.9	581.6	582.3	583.0	583.7	584.4	585.1	585.8	586.5	587.2	587.9	588.6	589.3	590.0	590.7	591.4	592.1	592.8	593.5	594.2	594.9	595.6	596.3	597.0	597.7	598.4	599.1	599.8	600.5	601.2	601.9	602.6	603.3	604.0	604.7	605.4	606.1	606.8	607.5	608.2	608.9	609.6	610.3	611.0	611.7	612.4	613.1	613.8	614.5	615.2	615.9	616.6	617.3	618.0	618.7	619.4	620.1	620.8	621.5	622.2	622.9	623.6	624.3	625.0	625.7	626.4	627.1	627.8	628.5	629.2	629.9	630.6	631.3	632.0	632.7	633.4	634.1	634.8	635.5	636.2	636.9	637.6	638.3	639.0	639.7	640.4	641.1	641.8	642.5	643.2	643.9	644.6	645.3	646.0	646.7	647.4	648.1	648.8	649.5	650.2	650.9	651.6	652.3	653.0	653.7	654.4	655.1	655.8	656.5	657.2	657.9	658.6	659.3	660.0	660.7	661.4	662.1	662.8	663.5	664.2	664.9	665.6	666.3	667.0	667.7	668.4	669.1	669.8	670.5	671.2	671.9	672.6	673.3	674.0	674.7	675.4	676.1	676.8	677.5	678.2	678.9	679.6	680.3	681.0	681.7	682.4	683.1	683.8	684.5	685.2	685.9	686.6	687.3	688.0	688.7	689.4	690.1	690.8	691.5	692.2	692.9	693.6	694.3	695.0	695.7	696.4	697.1	697.8	698.5	699.2	699.9	700.6	701.3	702.0	702.7	703.4	704.1	704.8	705.5	706.2	706.9	707.6	708.3	709.0	709.7	710.4	711.1	711.8	712.5	713.2	713.9	714.6	715.3	716.0	716.7	717.4	718.1	718.8	719.5	720.2	720.9	721.6	722.3	723.0	723.7	724.4	725.1	725.8	726.5	727.2	727.9	728.6	729.3	730.0	730.7	731.4	732.1	732.8	733.5	734.2	734.9	735.6	736.3	737.0	737.7	738.4	739.1	739.8	740.5	741.2	741.9	742.6	743.3	744.0	744.7	745.4	746.1	746.8	747.5	748.2	748.9	749.6	750.3	751.0	751.7	752.4	753.1	753.8	754.5	755.2	755.9	756.6	757.3	758.0	758.7	759.4	760.1	760.8	761.5	762.2	762.9	763.6	764.3	765.0	765.7	766.4	767.1	767.8	768.5	769.2	769.9	770.6	771.3	772.0	772.7	773.4	774.1	774.8	775.5	776.2	776.9	777.6	778.3	779.0	779.7	780.4	781.1	781.8	782.5	783.2	783.9	784.6	785.3	786.0	786.7	787.4	788.1	788.8	789.5	790.2	790.9	791.6	792.3	793.0	793.7	794.4	795.1	795.8	796.5	797.2	797.9	798.6	799.3	800.0	800.7	801.4	802.1	802.8	803.5	804.2	804.9	805.6	806.3	807.0	807.7	808.4	809.1	809.8	810.5	811.2	811.9	812.6	813.3	814.0	814.7	815.4	816.1	816.8	817.5	818.2	818.9	819.6	820.3	821.0	821.7	822.4	823.1	823.8	824.5	825.2	825.9	826.6	827.3	828.0	828.7	829.4	830.1	830.8	831.5	832.2	832.9	833.6	834.3	835.0	835.7	836.4	837.1	837.8	838.5	839.2	839.9	840.6	841.3	842.0	842.7	843.4	844.1	844.8	845.5	846.2	846.9	847.6	848.3	849.0	849.7	850.4	851.1	851.8	852.5	853.2	853.9	854.6	855.3	856.0	856.7	857.4	858.1	858.8	859.5	860.2	860.9	861.6	8

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 15:38 9-Mar-95
 PROJECT: 33-530 AREA: NE CORNER-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 12.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=14.7 MAX=36.7 AVE=28.5 AVE/MIN= 1.94 MAX/MIN= 2.50

I4 <15> = 10331 COLUMBIA CSR240-PAF-EOCT, <2> F032/35K, LLF= 0.66

CONTOUR LEVELS: A= 50.0 B= 40.0 C= 30.0 D= 20.0 E= 10.0

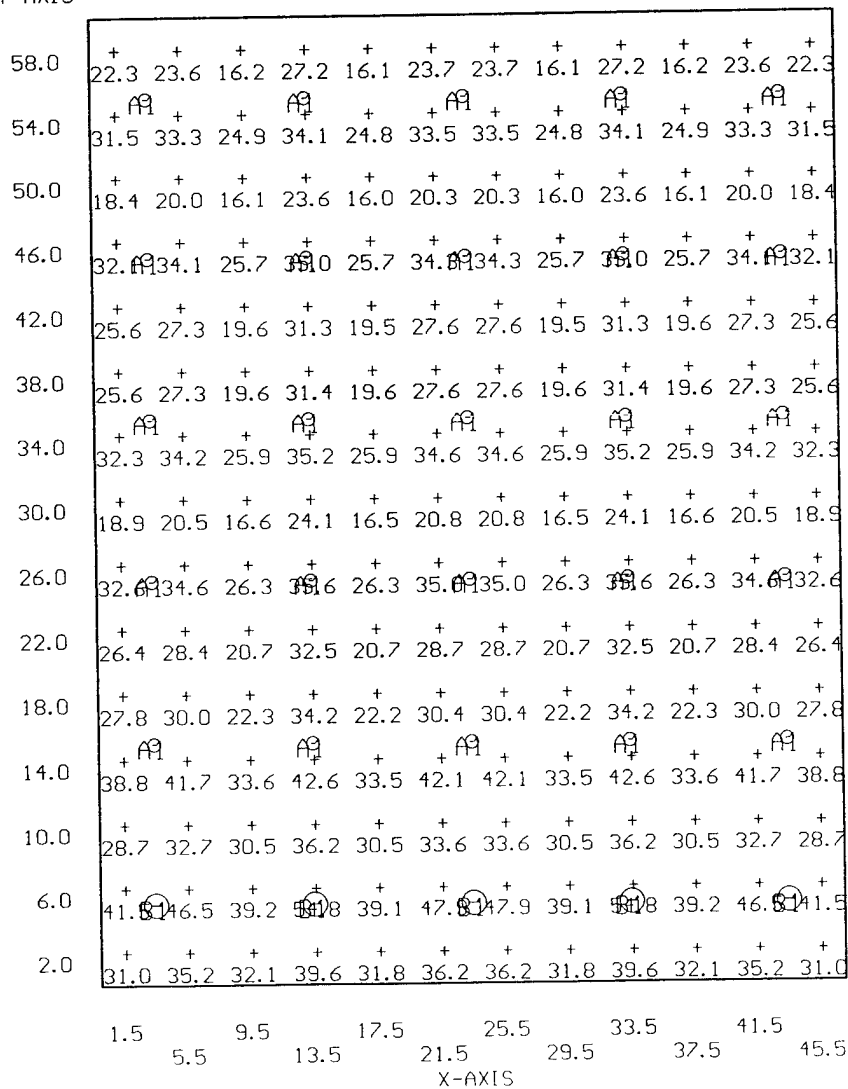


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 11:13 8-Feb-95
 PROJECT: 33-530 AREA: SOUTH END GRID: Ceiling
 Values are FC, SCALE: 1 IN= 12.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=16.0 MAX=54.8 AVE=29.3 AVE/MIN= 1.83 MAX/MIN= 3.42

A1 <25> = M13104 MOLDCAST C-2729, (1) HR175RDXFL39, LLF= 0.53
 B1 <5> = GE7404 GE LIGHTING PGMA15S, (1) LU-150, LLF= 0.78

Y-AXIS

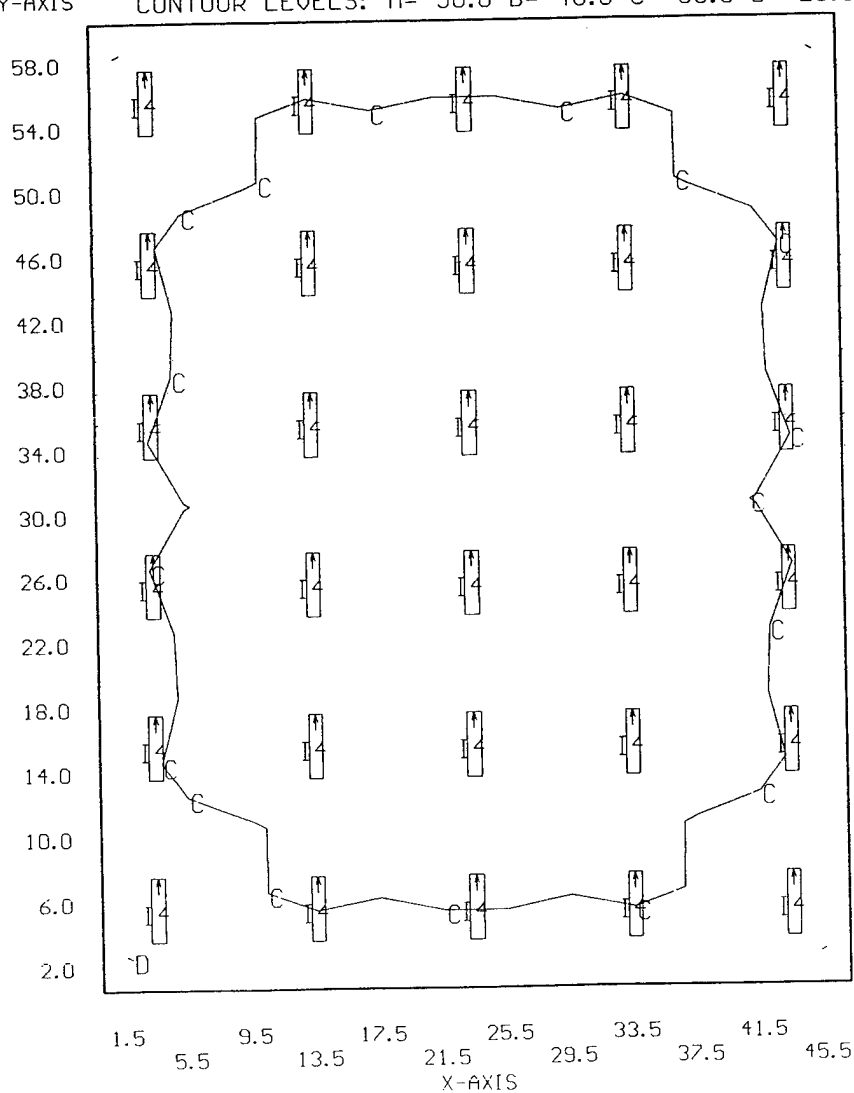


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 15:41 9-Mar-95
 PROJECT: 33-530 AREA: SOUTH END-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 12.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=19.7 MAX=36.1 AVE=30.3 AVE/MIN= 1.54 MAX/MIN= 1.83

I4 <30> = 10331 COLUMBIA CSR240-PAF-EOCT, (2) F032/35K, LLF= 0.66

Y-AXIS CONTOUR LEVELS: A= 50.0 B= 40.0 C= 30.0 D= 20.0 E= 10.0



Bldg 34-110 Summary

Present System

Fixture Type	Watts/ Fixture	Number Fixtures	Total Watts
A1	82	559	45,838
B1	175	4	700
C1	158	10	1,580
E	176	12	2,112
F	176	4	704
Totals		589	50,934

Replacement System

Fixture Type	Watts/ Fixture	Number Fixtures	Total Watts
A8	60	579	34,740
C8	105	10	
Totals		589	34,740

34-110 Schedule

Reynolds, Smith & Hills, Inc.
4651 Salisbury Road
Jacksonville, FL 32256
Buildings Engineering

Luminaire Fixture Schedule
Generated by LitePro V2.27E
Provided and supported by USI Lighting, Inc.
Filename: 34-110 Type: Indoor

Luminaire Fixture Schedule / PRESENT

Project name: PBA Lighting Survey - Bldg 34-110
Prepared for: CORP OF ENGINEERS
Prepared by: R. SHARMA

Project #6941331
Date: 7-Feb-95
UPD: 0.6W/Sq.Ft

TYPE	DESCRIPTION	LAMP/BALLAST	V/W	QTY	REMARKS
A1	11"X4' 2L INDUSTRIAL OPEN BOTTOM- NO SHIELDING COLUMBIA CSR240	F40CW ESB	000 - 82	559	559 → AB
B1	1X4 4L SOLID REFL.INDUSTRIAL OPEN - NO SHIELDING COLUMBIA KL440-SOLID	F40CW ESB	000 - 175	4	4 → AB
C1	11"X8' 2L APERTURED INDUSTRIAL OPEN BOTTOM- NO SHIELDING COLUMBIA CSR296-A	F96T12/CW ESB	000 - 158	10	10 → C8
E	1X4 4L SOLID REFL.INDUSTRIAL OPEN - NO SHIELDING COLUMBIA KL440-SOLID	F40CW ~~STD ESB~~	000 - 176	12	12 → AB
F	4'4L APER.PORCELAIN INDUSTRIAL OPEN BOTTOM- NO SHIELDING COLUMBIA KP440	F40CW ~~STD ESB~~	000 - 176	4	4 → AB

NOTES:

34-110 Schedule

Reynolds, Smith & Hills, Inc.
4651 Salisbury Road
Jacksonville, FL 32256
Buildings Engineering

Luminaire Fixture Schedule
Generated by LitePro V2.27E
Provided and supported by USI Lighting, Inc.
Filename: 34-110 Type: Indoor

Luminaire Fixture Schedule / ~~PROPOSED~~

Project name: PBA Lighting Survey - Bldg 34-110
Prepared for: CORP OF ENGINEERS
Prepared by: R. SHARMA

Project #6941331
Date: 9-Mar-95
UPD: 0.4W/Sq.Ft

TYPE	DESCRIPTION	LAMP/BALLAST	V/W	QTY	REMARKS
A8	1X4 2L SOLID REFL. INDUSTRIAL OPEN- NO SHIELDING COLUMBIA CSR240-PAF-EOCT	FO32/35K EOCT	000 - 60	579	
B8	11"X8' 2L INDUSTRIAL OPEN BOTTOM- NO SHIELDING COLUMBIA CSR296	FO96/735 EOCT	000 - 105	10	

NOTES:

34-110 Areas

Reynolds, Smith & Hills, Inc.
4651 Salisbury Road
Jacksonville, FL 32256
Buildings Engineering

Project Area Summary
Generated by LitePro V2.27E
Provided and supported by USI Lighting, Inc.
Filename: 34-110 Type: Indoor

Project Area Summary

Project name: PBA Lighting Survey - Bldg 34-110
Prepared for: CORP OF ENGINEERS
Prepared by: R. SHARMA

Project #6941331
Date: 9-Mar-95
UPD: 0.5W/Sq.Ft

AREA NAME	DIMENSIONS	LUMINAIRES	W/SQ.FT	QTY
WP-PACKING	154x154x20Ft	(113) Type A1 (4) Type B1	0.4	1
WP-PACKING-N	154x154x20Ft	(117) Type A8	0.3	1
PAINT SHOP	154x28x12Ft	(10) Type C1	0.4	1
PAINT SHOP-N	154x28x12Ft	(10) Type C8	0.2	1
PACKING OFFICE	15x12x9Ft	(6) Type E	5.9	1
PACK OFFICE-N	15x12x9Ft	(6) Type A8	2.0	1
PREPARATION RM.	137x103x20Ft	(40) Type A1	0.2	1
PREP RM.-N	137x103x20Ft	(40) Type A8	0.2	1
PROD. LINE #4	34x100x20Ft	(46) Type A1	1.1	1
PROD. LINE #4-N	34x100x20Ft	(46) Type A8	0.8	1
FILLING	150x245x20Ft	(360) Type A1 (6) Type E	0.8	1
FILLING-N	150x245x20Ft	(366) Type A8	0.6	1
FILLING OFFICE	10x14x9Ft	(4) Type F	5.0	1
FILL OFFICE-N	10x14x9Ft	(4) Type A8	1.7	1

NOTES:

34-110 Calculations

Reynolds, Smith & Hills, Inc.
 4651 Salisbury Road
 Jacksonville, FL 32256
 Buildings Engineering

Project Calculation Summary
 Generated by LitePro V2.27E
 Provided and supported by USI Lighting, Inc.
 Filename: 34-110 Type: Indoor

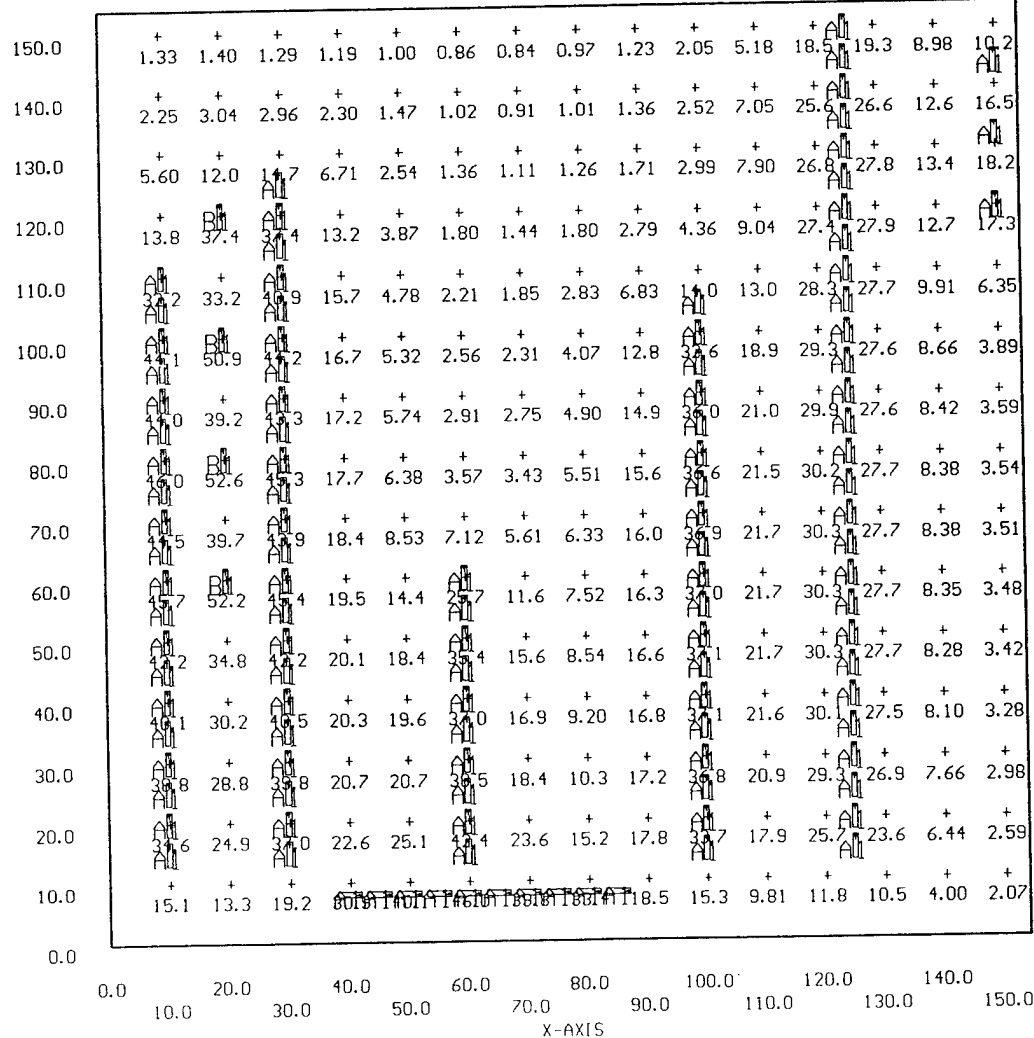
Project Calculation Summary

Project name: PBA Lighting Survey - Bldg 34-110
 Prepared for: CORP OF ENGINEERS
 Prepared by: R. SHARMA

Project #6941331
 Date: 9-Mar-95
 UPD: 0.5W/Sq.Ft

AREA NAME	DIMENSIONS	GRID NAME	AVE	MAX	MIN
WP-PACKING	154x154x20Ft	Ceiling	<+> 18.4	52.6	0.8
WP-PACKING-N	154x154x20Ft	Ceiling	<+> 16.6	42.3	0.7
PAINT SHOP	154x28x12Ft	GRID	<+> 14.2	22.3	6.5
PAINT SHOP-N	154x28x12Ft	GRID	<+> 14.2	27.1	5.1
PACKING OFFICE	15x12x9Ft	GRID	<+> 138.3	165.0	108.2
PACK OFFICE-N	15x12x9Ft	GRID	<+> 71.9	84.5	57.4
PREPARATION RM.	137x103x20Ft	GRID	<+> 9.8	30.4	0.3
PREP RM.-N	137x103x20Ft	GRID	<+> 9.5	34.0	0.2
PROD. LINE #4	34x100x20Ft	Ceiling	<+> 42.8	48.7	25.6
PROD. LINE #4-N	34x100x20Ft	Ceiling	<+> 39.8	45.3	23.9
FILLING	150x245x20Ft	Ceiling	<+> 36.7	49.2	6.3
FILLING-N	150x245x20Ft	Ceiling	<+> 34.5	50.5	4.3
FILLING OFFICE	10x14x9Ft	GRID	<+> 93.0	130.7	40.9
FILL OFFICE-N	10x14x9Ft	GRID	<+> 47.5	66.5	21.7

NOTES:

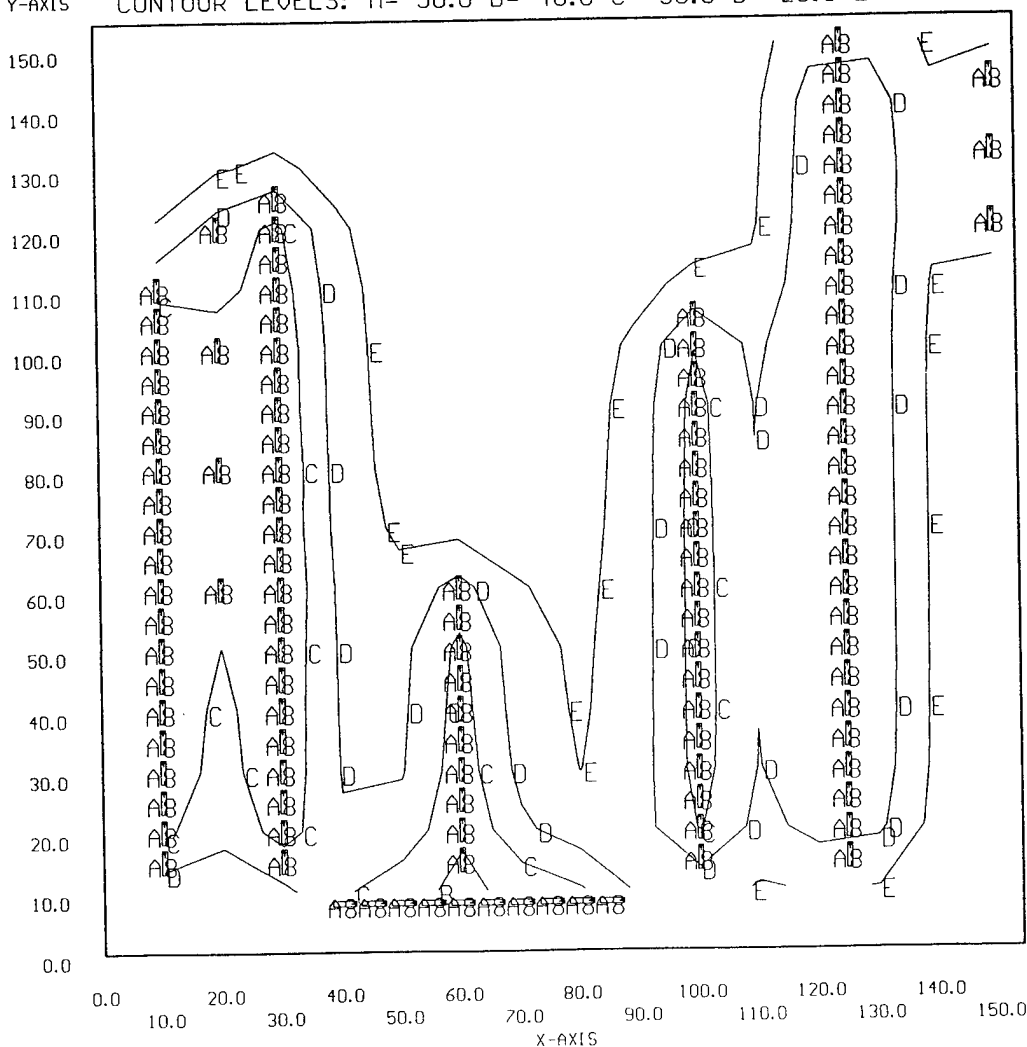


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:25 9-Mar-95
 PROJECT: 34-110 AREA: WP-PACKING-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 32.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=0.72 MAX=42.3 AVE=16.6 AVE/MIN= 22.73 MAX/MIN= 58.02

A8 <117> = 10331 COLUMBIA CSR240-PAF-E0CT, (2) F032/35K, LLF= 0.66

Y-AXIS CONTOUR LEVELS: A= 50.0 B= 40.0 C= 30.0 D= 20.0 E= 10.0



USI's LITE*PR0 V2.27E Point-By-Point Numeric Output 15:19 7-Feb-95
 PROJECT: 34-110 AREA: PAINT SHOP GRID: GRID
 Values are FC, SCALE: 1 IN= 24.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=6.47 MAX=22.3 AVE=14.2 AVE/MIN= 2.20 MAX/MIN= 3.45

C1 <10> = K8673 COLUMBIA CSR296-A, <2> F96T12/CW, LLF= 0.67

Y-AXIS

25.0	12.7	13.2	8.32	13.9	13.1	9.10	14.3	14.2	9.12	14.2	14.0	8.42	13.4	13.0	6.47
15.0	12.9	18.1	9.01	14.1	18.8	9.54	14.4	19.0	9.57	14.3	18.7	9.11	13.7	17.8	6.74
5.0	13.7	21.4	8.54	14.9	22.2	9.22	15.3	22.3	9.24	15.2	22.1	8.65	14.4	21.1	6.54

0.0 10.0 20.0 30.0 40.0 50.0 60.0 70.0 80.0 90.0 100.0 110.0 120.0 130.0 140.0 150.0
 X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:33 9-Mar-95
PROJECT: 34-110 AREA: PAINT SHOP-N GRID: GRID
Values are FC, SCALE: 1 IN= 24.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
Computed in accordance with IES recommendations

+ MIN=5.05	MAX=27.1	AVE=14.2	AVE/MIN=	2.81	MAX/MIN=	5.37

C8 <10> = K7993 COLUMBIA CSR296, (2) F096/735, LLF= 0.66

Y-AXIS

25.0	12.5	12.4	6.47	13.4	7.06	13.7	7.07	13.6	6.54	12.9	5.05
15.0	11.7	17.8	7.18	12.6	18.4	7.62	12.9	18.5	7.64	12.8	5.37
5.0	13.8	26.3	6.62	14.7	27.0	7.14	15.0	27.1	7.17	14.9	5.11

X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 15:36 7-Feb-95
 PROJECT: 34-110 AREA: PACKING OFFICE GRID: GRID
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=108. MAX=165. AVE=138. AVE/MIN= 1.28 MAX/MIN= 1.53

E <6> = 10368 COLUMBIA KL440-SOLID, <4> F40CW, LLF= 0.68

Y-AXIS

11.0	+	108.	123.	131.	134.	131.	123.	108.	+
9.0	+	124.	142.	151.	155.	151.	142.	124.	+
7.0	+	132.	151.	162.	165.	162.	151.	132.	+
5.0	+	132.	151.	162.	165.	162.	151.	132.	+
3.0	+	124.	142.	151.	155.	151.	142.	124.	+
1.0	+	108.	123.	131.	134.	131.	123.	108.	+

1.5 3.5 5.5 7.5 9.5 11.5 13.5
 X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:36 9-Mar-95
 PROJECT: 34-110 AREA: PACK OFFICE-N GRID: GRID
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=57.4 MAX=84.5 AVE=71.9 AVE/MIN= 1.25 MAX/MIN= 1.47

A8 <6> = 10331 COLUMBIA CSR240-PAF-EOCT, <2> F032/35K, LLF= 0.66

Y-AXIS

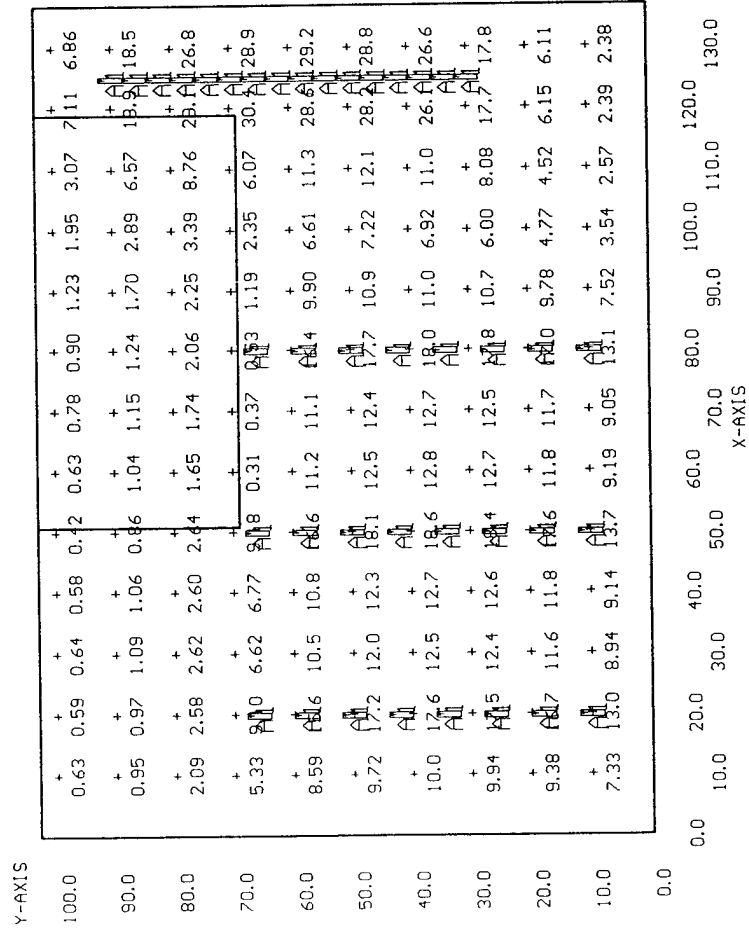
11.0	+	57.4	65.1	69.4	70.6	69.4	65.1	57.4	+
9.0	+	64.7	73.8	78.4	79.9	78.4	73.8	64.7	+
7.0	+	68.2	77.9	83.0	84.5	83.0	77.9	68.2	+
5.0	+	68.2	77.9	83.0	84.5	83.0	77.9	68.2	+
3.0	+	64.7	73.8	78.4	79.9	78.4	73.8	64.7	+
1.0	+	57.4	65.1	69.4	70.6	69.4	65.1	57.4	+

1.5 5.5 9.5 13.5
 3.5 7.5 11.5
 X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 15:47 7-Feb-95
 PROJECT: 34-110 AREA: PREPARATION RM. GRID: GRID
 Values are FC, SCALE: 1 IN= 32.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=0.31 MAX=30.4 AVE=9.81 AVE/MIN= 30.81 MAX/MIN= 95.42

A1 <40> = K7990 COLUMBIA CSR240, <2> F40CW, LLF= 0.68

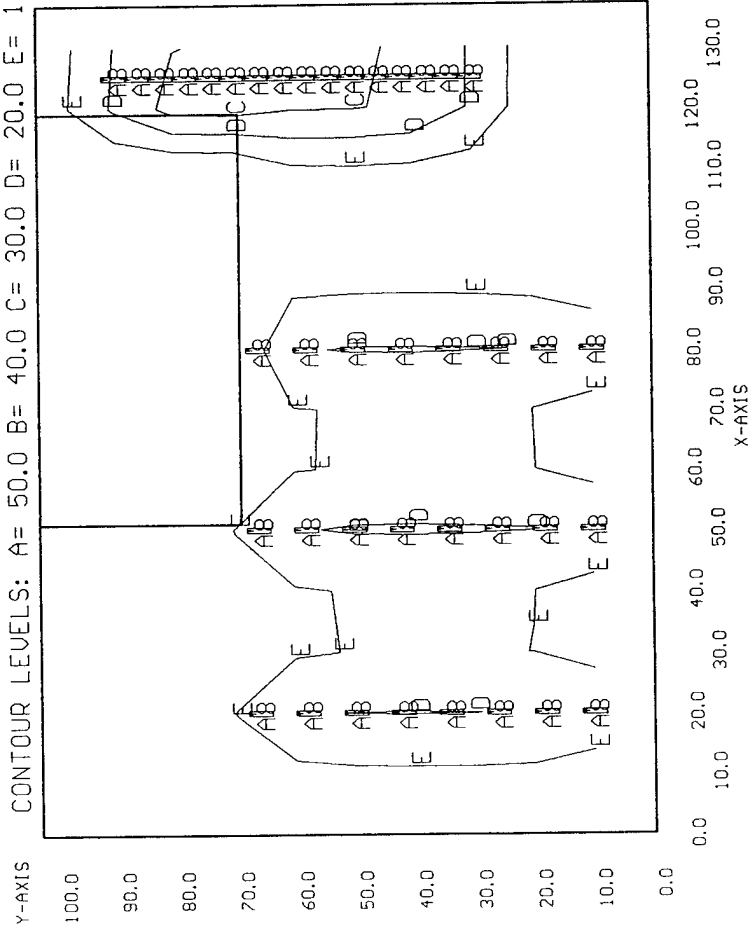


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:41 9-Mar-95
 PROJECT: 34-110 AREA: PREP RM.-N GRID: GRID
 Values are FC, SCALE: 1 IN= 32.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=0.18 MAX=34.0 AVE=9.47 AVE/MIN= 52.27 MAX/MIN= 187.37

A8 <40> = 10331 COLUMBIA CSR240-PAF-E0CT, <2> F032/35K, LLF= 0.66

CONTOUR LEVELS: A= 50.0 B= 40.0 C= 30.0 D= 20.0 E= 10.0



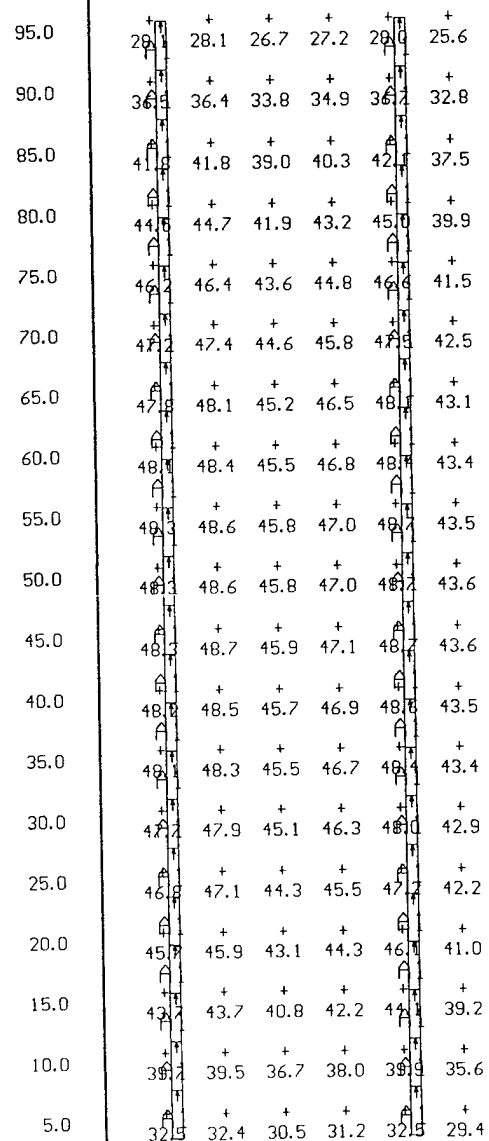
USI's LITE*PRO V2.27E Point-By-Point Numeric Output 15:58 7-Feb-95
 PROJECT: 34-110 AREA: PROD. LINE #4 GRID: Ceiling
 Values are FC, SCALE: 1 IN= 16.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=25.6 MAX=48.7 AVE=42.8 AVE/MIN= 1.67 MAX/MIN= 1.91

A1 <46> = K7990 COLUMBIA CSR240, (2) F40CW, LLF= 0.68

Y-AXIS

100.0



0.0

0.0

5.0

10.0

15.0

20.0

25.0

30.0

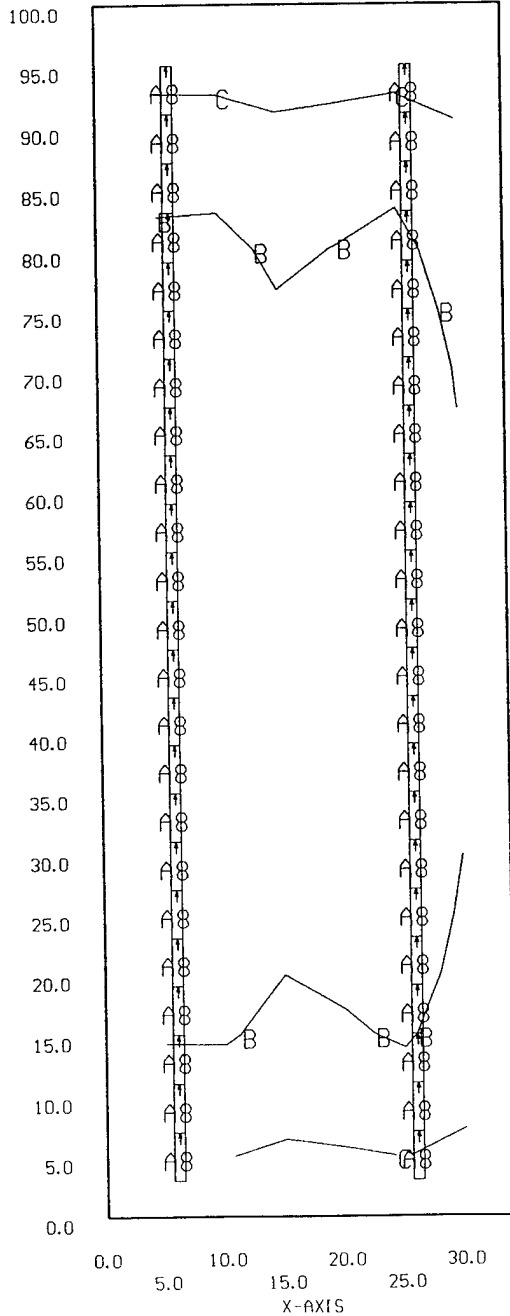
X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:44 9-Mar-95
 PROJECT: 34-110 AREA: PROD. LINE #4-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 16.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=23.9 MAX=45.3 AVE=39.8 AVE/MIN= 1.67 MAX/MIN= 1.90

A8 <46> = 10331 COLUMBIA CSR240-PAF-EOCT, (2) F032/35K, LLF= 0.66

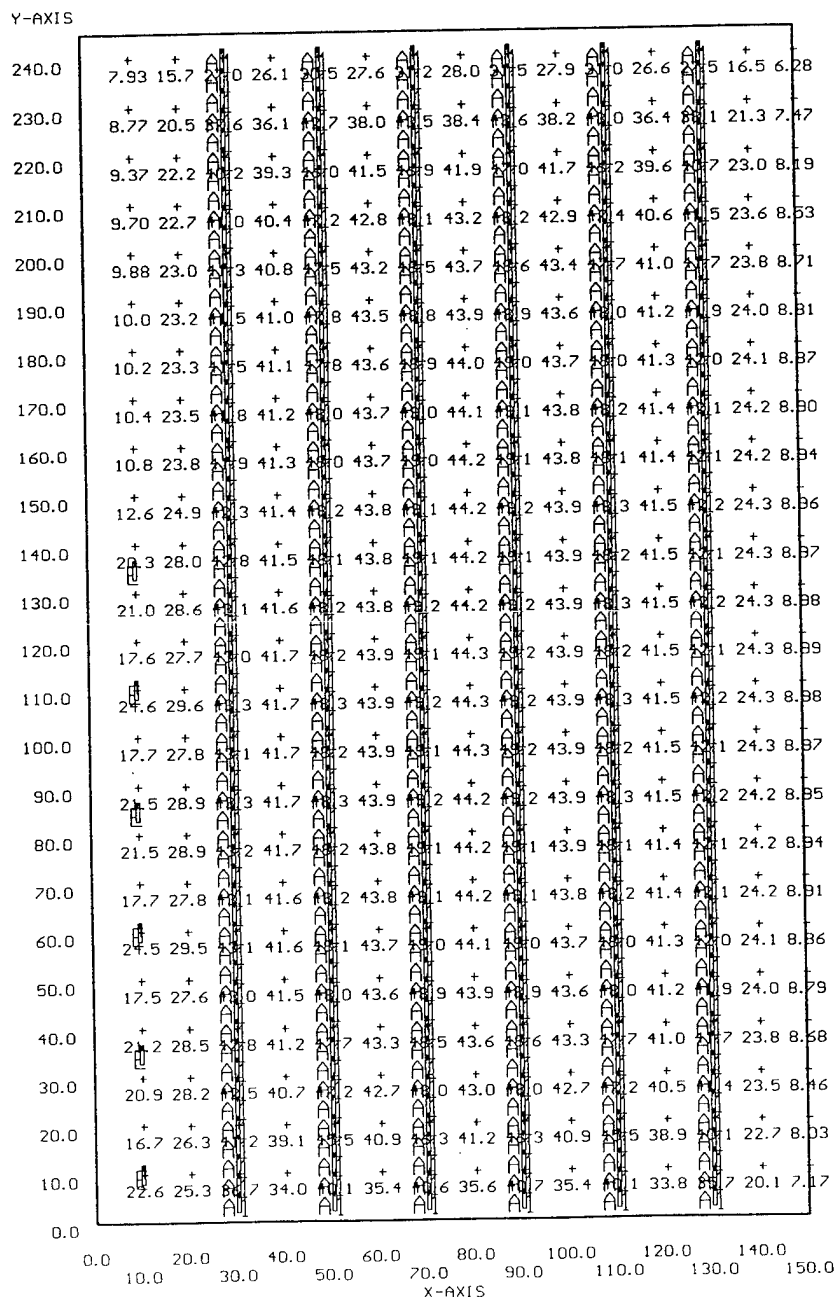
Y-AXIS CONTOUR LEVELS: A= 50.0 B= 40.0 C= 30.0 D= 20.0 E= 10.0



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:09 7-Feb-95
PROJECT: 34-110 AREA: FILLING GRID: Ceiling
Values are FC, SCALE: 1 IN= 40.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
Computed in accordance with IES recommendations

+ MIN=6.28 MAX=49.2 AVE=36.7 AVE/MIN= 5.84 MAX/MIN= 7.84

A1 <360> = K7990 COLUMBIA CSR240, (2) F40CW, LLF= 0.68
E <6> = 10368 COLUMBIA KL440-SOLID, (4) F40CW, LLF= 0.68

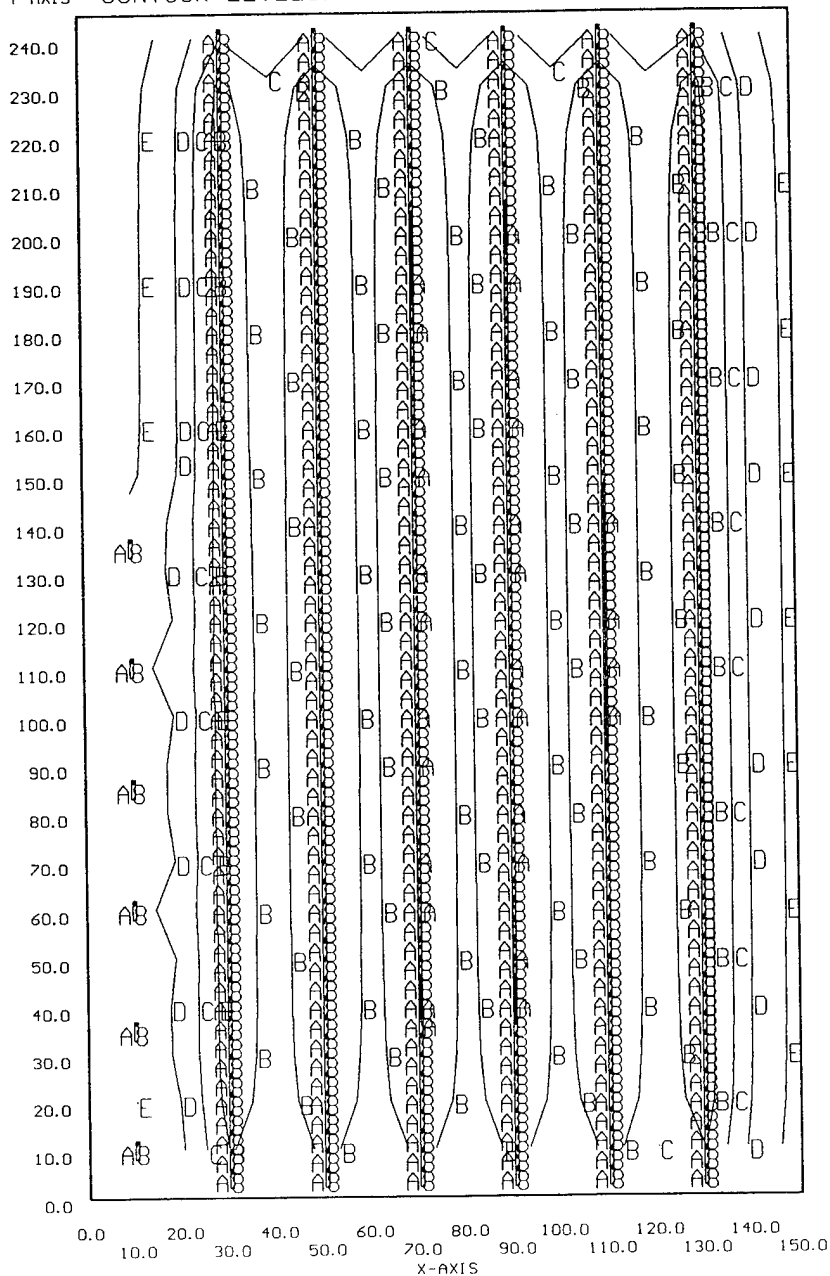


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:57 9-Mar-95
 PROJECT: 34-110 AREA: FILLING-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 40.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=4.31 MAX=50.5 AVE=34.5 AVE/MIN= 8.02 MAX/MIN= 11.73

AB <366> = 10331 COLUMBIA CSR240-PAF-EOCT, (2) F032/35K, LLF= 0.66

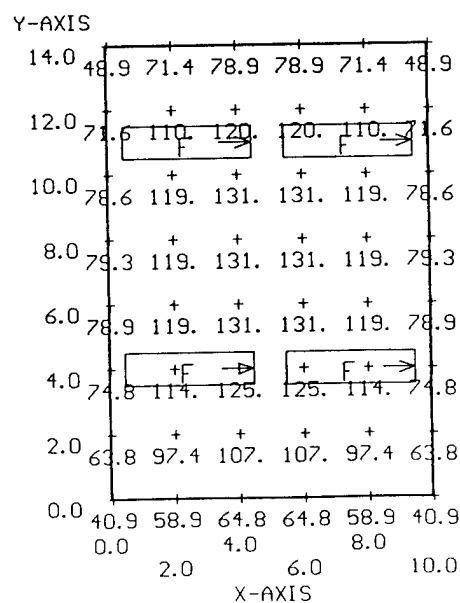
Y-AXIS CONTOUR LEVELS: A= 50.0 B= 40.0 C= 30.0 D= 20.0 E= 10.0



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:43 2-Feb-95
 PROJECT: 34-110 AREA: FILLING OFFICE GRID: GRID
 Values are FC, SCALE: 1 IN= 6.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=40.9 MAX=131. AVE=93.0 AVE/MIN= 2.28 MAX/MIN= 3.20

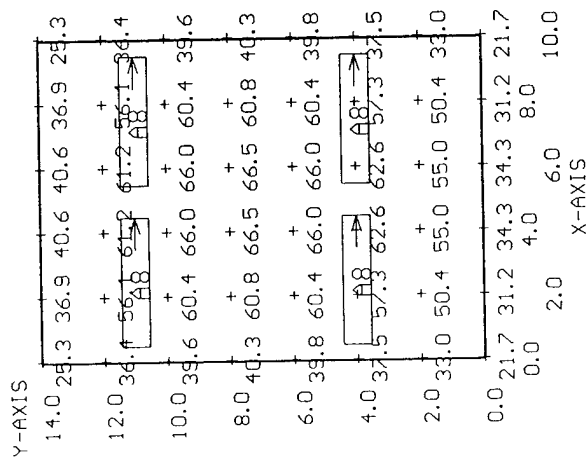
F <4> = K7983L COLUMBIA KP440, <4> F40CW, LLF= 0.68



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 17:00 9-Mar-95
 PROJECT: 34-110 AREA: FILL OFFICE-N GRID: GRID
 Values are FC, SCALE: 1 IN= 6.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=21.7 MAX=66.5 AVE=47.5 AVE/MIN= 2.18 MAX/MIN= 3.06

A8 <4> = 10331 COLUMBIA CSR240-PAF-EOCT, <2> F032/35K, LLF= 0.66



Bldg 34-120 Summary

Present System

Fixture Type	Watts/ Fixture	Number Fixtures	Total Watts
A1	115	16	1,840
B	52	2	104
M1	210	32	6,720
R1	136	4	544
R2	111	16	1,776
R3	82	6	492
Totals		76	11,476

Replacement System

Fixture Type	Watts/ Fixture	Number Fixtures	Total Watts
A8	91	16	1,456
B8	34	2	68
I2	60	21	1,260
R8	59	8	472
RR	59	14	826
Totals		61	4,082

Reynolds, Smith & Hills, Inc.
 4651 Salisbury Road
 Jacksonville, FL 32256
 Buildings Engineering

Luminaire Fixture Schedule
 Generated by LitePro V2.27E
 Provided and supported by USI Lighting, Inc.
 Filename: 34-120 Type: Indoor

Luminaire Fixture Schedule / **PRESENT**

Project name: PBA Lighting Study - Bldg 34-120
 Prepared for: Corps of Engineers
 Prepared by: C. Warren

Project #6941331
 Date: 8-Feb-95
 UPD: 2.1W/Sq.Ft

TYPE	DESCRIPTION	LAMP/BALLAST	V/W	QTY	REMARKS
A1	18"X4'3L CEILING MT.WRAPAROUND LENS- PRISMATIC W/ GLOW ENDS COLUMBIA WPW340-A	F40CW/RS/WM ESB	000 - 115	16	
B	5"X4"X4' 1L WALL CORRIDOR WRAP LENS- SMOOTH WHITE ACRYLIC COLUMBIA W140-A	F40CW ESB	000 - 52	2	
M1	7"RECESS ROUND DOWNLIGHT,WIDE OPEN-CLR.ALZAK REFL.(20DEG CO) MOLDCAST C-2729	HR175DX39 STD	000 - 210	32	
R1	2'X4' 3L STATIC GRID TROFFER LENS- .125" THK PRISMATIC A12 COLUMBIA 2SG340-EXA.125NOM	F40CW ESB	000 - 136	4	
R2	2X4 3L FLUSH STATIC TROFFER LENS-PRISMATIC ACRYLIC PATT-12 COLUMBIA 4PS2*-52-243	F40CW/RS/WM ESB	000 - 111	16	
R3	2'X4' 2L STATIC GRID TROFFER LENS- .125" THK PRISMATIC A12 COLUMBIA 2SG240-EXA.125NOM	F40CW ESB	000 - 82	6	

NOTES:

34-120 Schedule

Reynolds, Smith & Hills, Inc.
4651 Salisbury Road
Jacksonville, FL 32256
Buildings Engineering

Luminaire Fixture Schedule
Generated by LitePro V2.27E
Provided and supported by USI Lighting, Inc.
Filename: 34-120 Type: Indoor

Luminaire Fixture Schedule / **PROPOSED**

Project name: PBA Lighting Study - Bldg 34-120
Prepared for: Corps of Engineers
Prepared by: C. Warren

Project #6941331
Date: 10-Mar-95
UPD: 0.8W/Sq.Ft

TYPE	DESCRIPTION	LAMP/BALLAST	V/W	QTY	REMARKS
A8	18"X4'3L CEILING MT.WRAPAROUND LENS- PRISMATIC W/ GLOW ENDS COLUMBIA WPW340-A	FO32/35K ESB	000 - 91	16	
8	5"X4"X4' 1L WALL CORRIDOR WRAP LENS- SMOOTH WHITE ACRYLIC COLUMBIA W140-A	FO32/35K ESB	000 - 34	2	
I2	1X4 2L SOLID REFL.INDUSTRIAL OPEN- NO SHIELDING COLUMBIA CSR240-PAF-EOCT	FO32/35K EOCT	000 - 60	21	
R8	2X4 2L FLUSH STATIC TROFFER LENS-PRISMATIC ACRYLIC PATT-19 COLUMBIA T84PS2*-84-242-2EOCT	FO32/31K EOCT	000 - 59	8	
RR	2X4 ACRYLIC LENSED TROFFER SILVER ECONOMY REFLECTOR METALOPTICS 24EKSO42EP11	FO32/35K EOCT	000 - 59	14	

NOTES:

34-120 Areas

Reynolds, Smith & Hills, Inc.
4651 Salisbury Road
Jacksonville, FL 32256
Buildings Engineering

Project Area Summary
Generated by LitePro V2.27E
Provided and supported by USI Lighting, Inc.
Filename: 34-120 Type: Indoor

Project Area Summary

Project name: PBA Lighting Study - Bldg 34-120
Prepared for: Corps of Engineers
Prepared by: C. Warren

Project #6941331
Date: 10-Mar-95
UPD: 1.5W/Sq.Ft

AREA NAME	DIMENSIONS	LUMINAIRES	W/SQ.FT	QTY
OFFICE 1	21x24x9Ft	(8) Type R2	1.8	1
OFFICE 1-N	21x24x9Ft	(8) Type RR	0.9	1
OFFICE	12x10x9Ft	(2) Type R2	1.9	1
OFFICE-N	12x10x9Ft	(2) Type RR	1.0	1
HALLWAY	6x32x12Ft	(3) Type M1	3.3	1
HALLWAY-N	6x32x12Ft	(2) Type I2	0.6	1
OFFICE 4	30x32x12Ft	(15) Type M1	3.3	1
OFFICE 4-N	30x32x12Ft	(16) Type I2	1.0	1
STORAGE	40x41x12Ft	(14) Type M1	1.8	1
STORAGE-N	40x41x12Ft	(3) Type I2	0.1	1
BREAKROOM	12x16x9Ft	(3) Type R3	1.3	1
BREAKROOM-N	12x16x9Ft	(2) Type R8	0.6	1
TOILETS/FOYER	21x16x9Ft	(2) Type B (3) Type R3	1.0	1
TOILETS/FOYER-N	21x16x9Ft	(2) Type B8 (3) Type R8	0.7	1
LAB	30x32x9Ft	(16) Type A1	1.9	1
LAB-N	30x32x9Ft	(16) Type A8	1.5	1
OFFICE 3	20x15x9Ft	(4) Type R1	1.8	1
OFFICE 3-N	20x15x9Ft	(4) Type RR	0.8	1

Page 2
34-120 Areas

OFFICE 4	8x20x9Ft	(6) Type R2	4.2	1
OFFICE 4-N	8x20x9Ft	(3) Type R8	1.1	1

NOTES:

34-120 Calculations

Reynolds, Smith & Hills, Inc.
 4651 Salisbury Road
 Jacksonville, FL 32256
 Buildings Engineering

Project Calculation Summary
 Generated by LitePro V2.27E
 Provided and supported by USI Lighting, Inc.
 Filename: 34-120 Type: Indoor

Project Calculation Summary

Project name: PBA Lighting Study - Bldg 34-120
 Prepared for: Corps of Engineers
 Prepared by: C. Warren

Project #6941331
 Date: 10-Mar-95
 UPD: 1.5W/Sq.Ft

AREA NAME	DIMENSIONS	GRID NAME	AVE	MAX	MIN
OFFICE 1	21x24x9Ft	Ceiling	<+> 49.8	61.2	24.2
OFFICE 1-N	21x24x9Ft	Ceiling	<+> 45.0	54.8	21.8
OFFICE	12x10x9Ft	Ceiling	<+> 41.4	56.5	28.9
OFFICE-N	12x10x9Ft	Ceiling	<+> 37.4	51.6	26.1
HALLWAY	6x32x12Ft	Ceiling	<+> 40.7	47.2	23.1
HALLWAY-N	6x32x12Ft	Ceiling	<+> 16.5	26.0	6.0
OFFICE 4	30x32x12Ft	Ceiling	<+> 64.4	86.8	28.5
OFFICE 4-N	30x32x12Ft	Ceiling	<+> 47.5	56.8	30.0
STORAGE	40x41x12Ft	Ceiling	<+> 34.6	70.5	0.2
STORAGE-N	40x41x12Ft	Ceiling	<+> 5.8	21.9	0.0
BREAKROOM	12x16x9Ft	Ceiling	<+> 38.7	53.7	22.6
BREAKROOM-N	12x16x9Ft	Ceiling	<+> 24.7	36.4	13.7
TOILETS/FOYER	21x16x9Ft	Ceiling	<+> 20.8	44.2	0.0
TOILETS/FOYER-N	21x16x9Ft	Ceiling	<+> 19.6	42.2	0.0
LAB	30x32x9Ft	Ceiling	<+> 49.5	57.0	33.3
B-N	30x32x9Ft	Ceiling	<+> 52.5	60.4	35.3
OFFICE 3	20x15x9Ft	Ceiling	<+> 51.6	62.5	35.4
OFFICE 3-N	20x15x9Ft	Ceiling	<+> 38.6	52.0	24.3

Page 2

34-120 Calculations

OFFICE 4	8x20x9Ft	Ceiling	<+>	90.1	103.6	72.2
OFFICE 4-N	8x20x9Ft	Ceiling	<+>	42.1	52.2	30.0

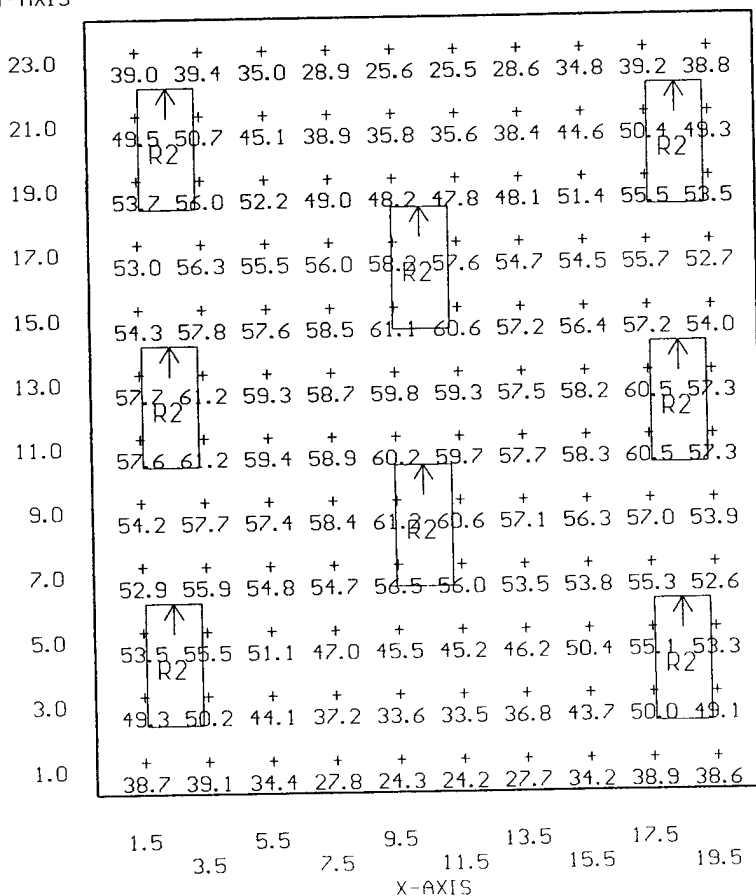
NOTES:

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:28 8-Feb-95
 PROJECT: 34-120 AREA: OFFICE 1 GRID: Ceiling
 Values are FC, SCALE: 1 IN= 6.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=24.2 MAX=61.2 AVE=49.8 AVE/MIN= 2.05 MAX/MIN= 2.52

R2 <8> = 9784 COLUMBIA 4PS2*-52-243, <3> F40CW/RS/WM, LLF= 0.63

Y-AXIS

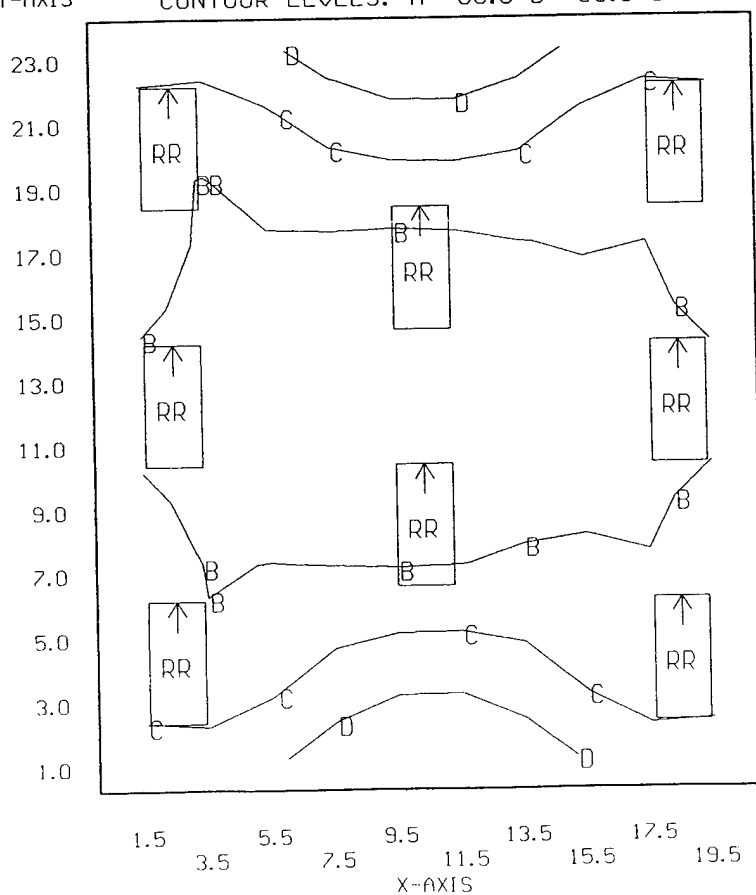


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 09:12 10-Mar-95
 PROJECT: 34-120 AREA: OFFICE 1-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 6.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=21.8 MAX=54.8 AVE=45.0 AVE/MIN= 2.06 MAX/MIN= 2.51

RR <8> = T10620 METALOPTICS 24EKS042EP11, (2) F032/35K, LLF= 0.66

Y-AXIS CONTOUR LEVELS: A= 60.0 B= 50.0 C= 40.0 D= 30.0 E= 20.0

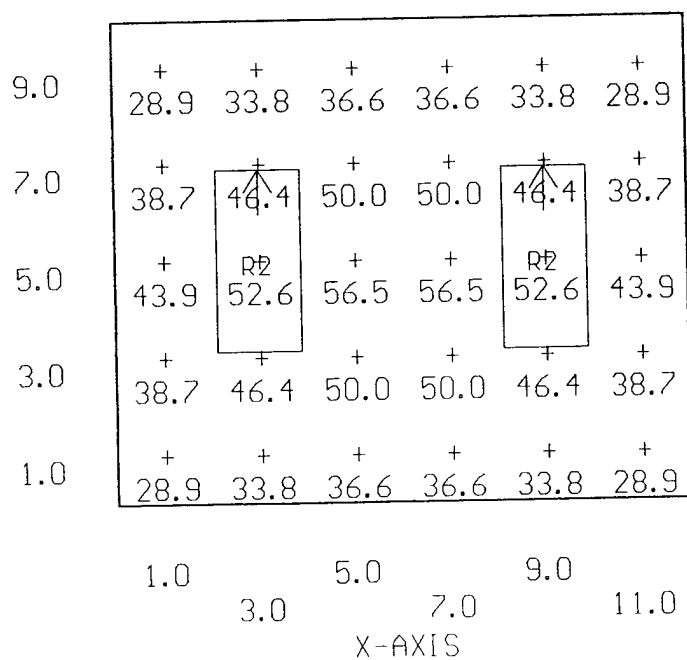


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:29 8-Feb-95
 PROJECT: 34-120 AREA: OFFICE GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=28.9 MAX=56.5 AVE=41.4 AVE/MIN= 1.44 MAX/MIN= 1.96

R2 <2> = 9784 COLUMBIA 4PS2*-52-243, <3> F40CW/RS/WM, LLF= 0.63

Y-AXIS



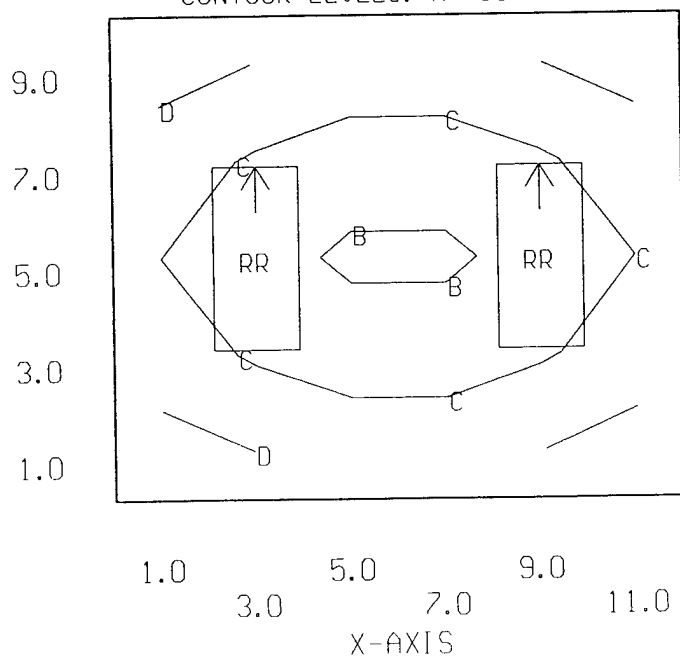
USI's LITE*PRO V2.27E Point-By-Point Numeric Output 09:14 10-Mar-95
PROJECT: 34-120 AREA: OFFICE-N GRID: Ceiling
Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
Computed in accordance with IES recommendations

+ MIN=26.1 MAX=51.6 AVE=37.4 AVE/MIN= 1.43 MAX/MIN= 1.98

RR <2> = T10620 METALOPTICS 24EKS042EP11, <2> F032/35K, LLF= 0.66

Y-AXIS

CONTOUR LEVELS: A= 60.0 B= 50.0 C= 40.0 D= 30.0 E= 20.0



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 13:29 8-Feb-95
 PROJECT: 34-120 AREA: HALLWAY GRID: Ceiling
 Values are FC, SCALE: 1 IN= 6.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=23.1 MAX=47.2 AVE=40.7 AVE/MIN= 1.77 MAX/MIN= 2.05

M1 <3> = M13104 MOLDCAST C-2729, <1> HR175DX39, LLF= 0.58

Y-AXIS

31.0	23.1	25.6	23.1
29.0	36.1	39.7	36.1
27.0	44.0	43.0	44.0
25.0	45.5	44.8	45.5
23.0	42.1	46.5	42.1
21.0	39.2	44.5	39.2
19.0	42.8	47.2	42.8
17.0	47.1	46.4	47.1
15.0	47.1	46.4	47.1
13.0	42.8	47.2	42.8
11.0	39.2	44.5	39.2
9.0	42.1	46.5	42.1
7.0	45.5	44.8	45.5
5.0	44.0	43.0	44.0
3.0	36.1	39.7	36.1
1.0	23.1	25.6	23.1

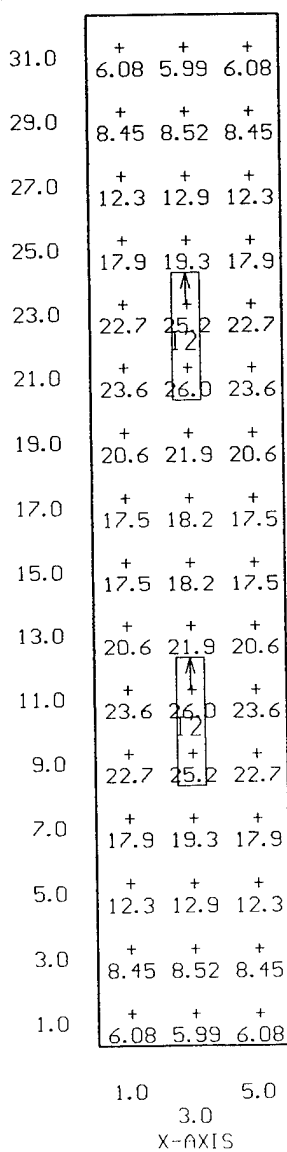
1.0 3.0 5.0
 X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 09:20 10-Mar-95
 PROJECT: 34-120 AREA: HALLWAY-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 6.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=5.99 MAX=26.0 AVE=16.5 AVE/MIN= 2.75 MAX/MIN= 4.34

I2 <2> = 10331 COLUMBIA CSR240-PAF-EOCT, <2> F032/35K, LLF= 0.66

Y-AXIS

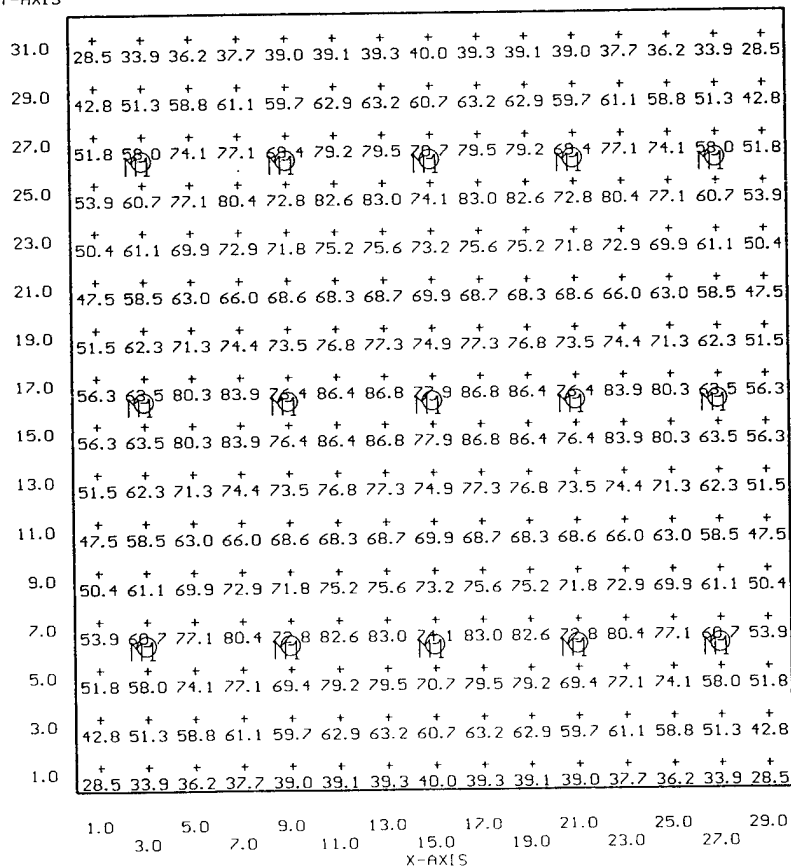


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 13:48 8-Feb-95
 PROJECT: 34-120 AREA: OFFICE 4 GRID: Ceiling
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=28.5 MAX=86.8 AVE=64.4 AVE/MIN= 2.26 MAX/MIN= 3.05

M1 <15> = M13104 MOLDCAST C-2729, (1) HR175DX39, LLF= 0.58

Y-AXIS

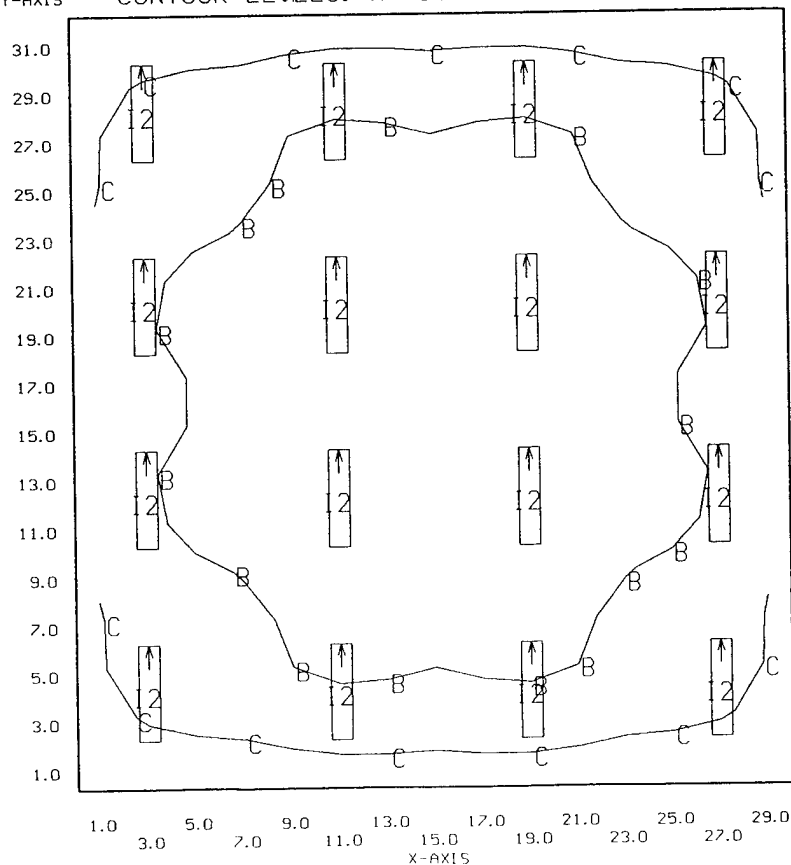


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 09:23 10-Mar-95
 PROJECT: 34-120 AREA: OFFICE 4-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=30.0 MAX=56.8 AVE=47.5 AVE/MIN= 1.58 MAX/MIN= 1.89

I2 <16> = 10331 COLUMBIA CSR240-PAF-EOCT, (2) F032/35K, LLF= 0.66

Y-AXIS CONTOUR LEVELS: A= 60.0 B= 50.0 C= 40.0 D= 30.0 E= 20.0



+ MIN=0.15 MAX=70.5 AVE=34.6 AVE/MIN= 217.60 MAX/MIN= 443.89

M1 <14> = M13104 MOLDCAST C-2729, (1) HR175DX39, LLF= 0.58

Y-AXIS

38.0	0.21	0.25	0.28	0.29	0.27	8.0	35.6	28.6	0.74	0.86
34.0	0.21	0.25	0.30	0.33	0.31	26.5	44.3	38.9	0.94	1.06
30.0	0.19	0.23	0.29	0.33	0.31	36.3	48.0	43.4	1.17	1.19
26.0	0.15	0.19	0.25	0.33	0.33	51.1	66.5	54.4	2.69	1.06
22.0	16.7	18.1	19.8	21.4	29.1	49.7	56.5	53.9	1.16	0.92
18.0	45.5	54.9	53.5	57.2	57.7	61.2	64.5	61.3	56.1	44.8
14.0	50.0	66.4	61.8	69.1	66.7	67.1	70.0	62.6	65.7	48.6
10.0	35.6	51.4	56.4	57.6	57.1	55.6	55.0	52.8	49.8	35.8
6.0	35.6	52.4	70.3	63.2	70.5	70.0	60.2	66.3	51.2	37.6
2.0	23.2	40.5	45.6	47.6	49.6	49.0	47.6	44.8	41.2	25.6
	2.0	6.0	10.0	14.0	18.0	22.0	26.0	30.0	34.0	38.0

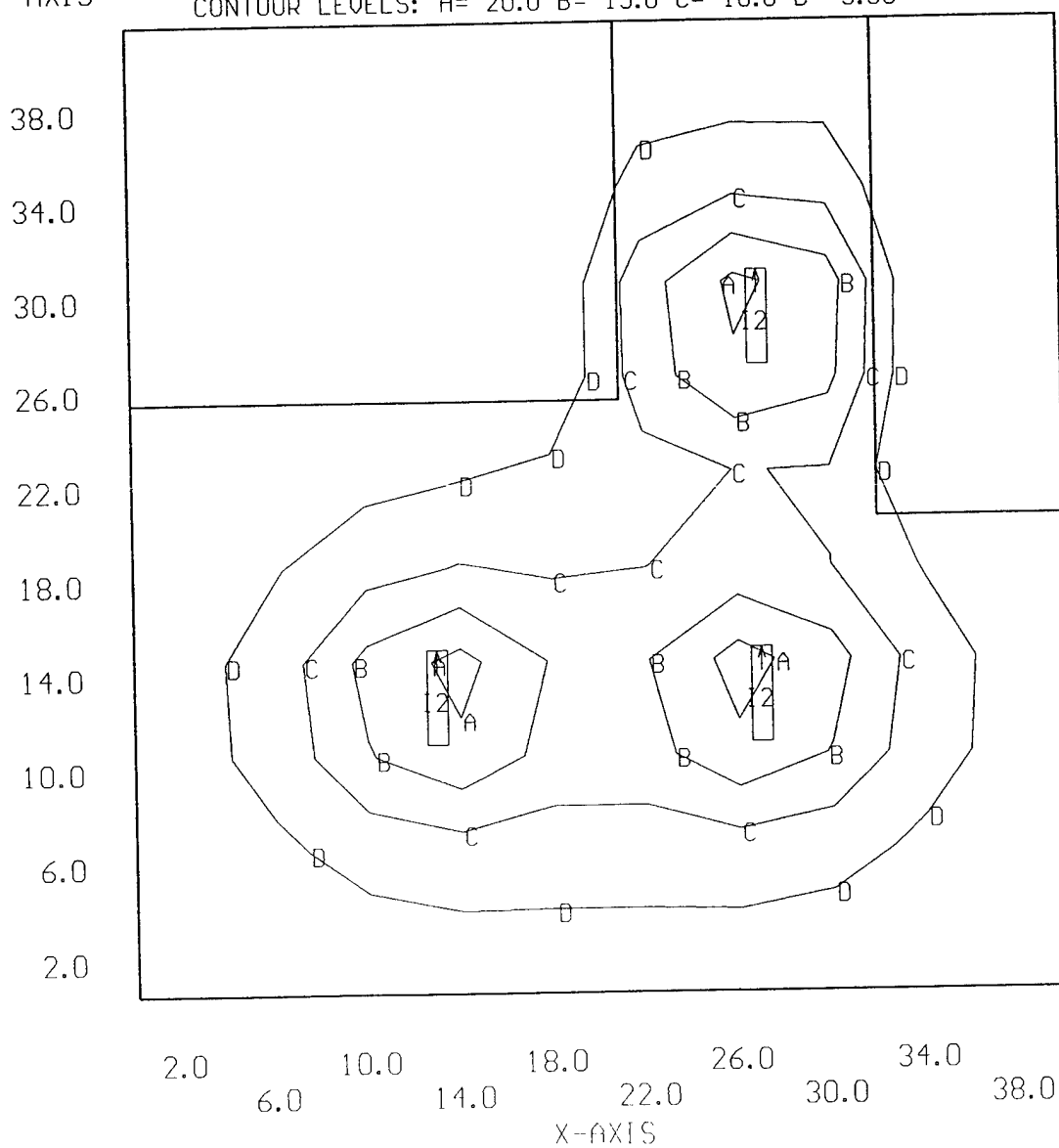
USI's LITE*PRO V2.27E Point-By-Point Numeric Output 09:28 10-Mar-95
 PROJECT: 34-120 AREA: STORAGE-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=0.03 MAX=21.9 AVE=5.80 AVE/MIN= 157.78 MAX/MIN= 596.73

12 <3> = 10331 COLUMBIA CSR240-PAF-E0CT, (2) F032/35K, LLF= 0.66

Y-AXIS

CONTOUR LEVELS: A= 20.0 B= 15.0 C= 10.0 D= 5.00

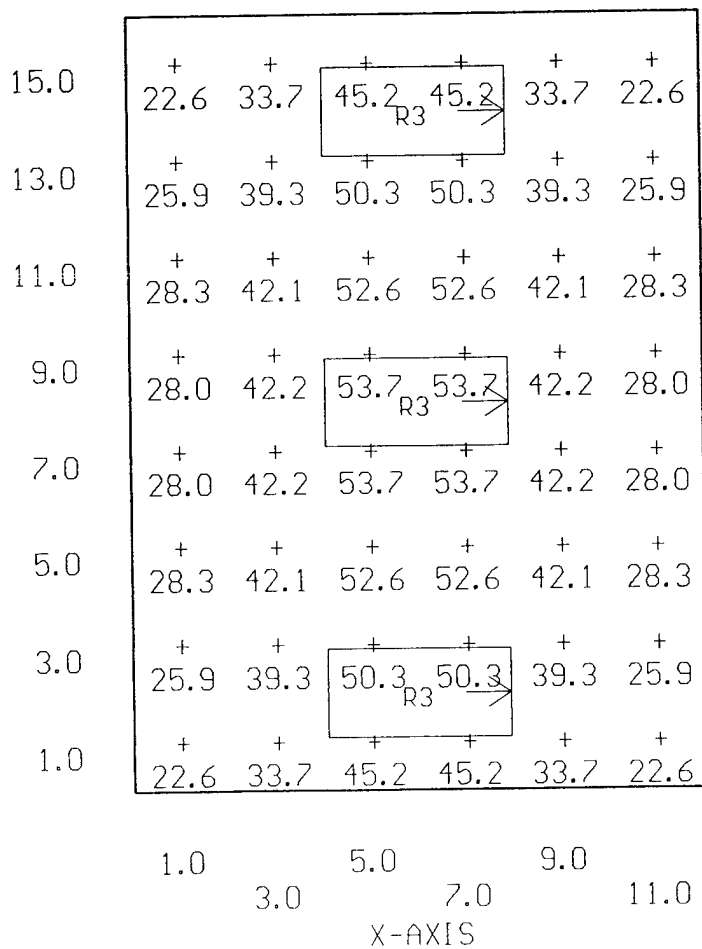


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:35 8-Feb-95
 PROJECT: 34-120 AREA: BREAKROOM GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=22.6 MAX=53.7 AVE=38.7 AVE/MIN= 1.71 MAX/MIN= 2.38

R3 <3> = K7965 COLUMBIA 2SG240-EXA.125NOM, <2> F40CW, LLF= 0.68

Y-AXIS

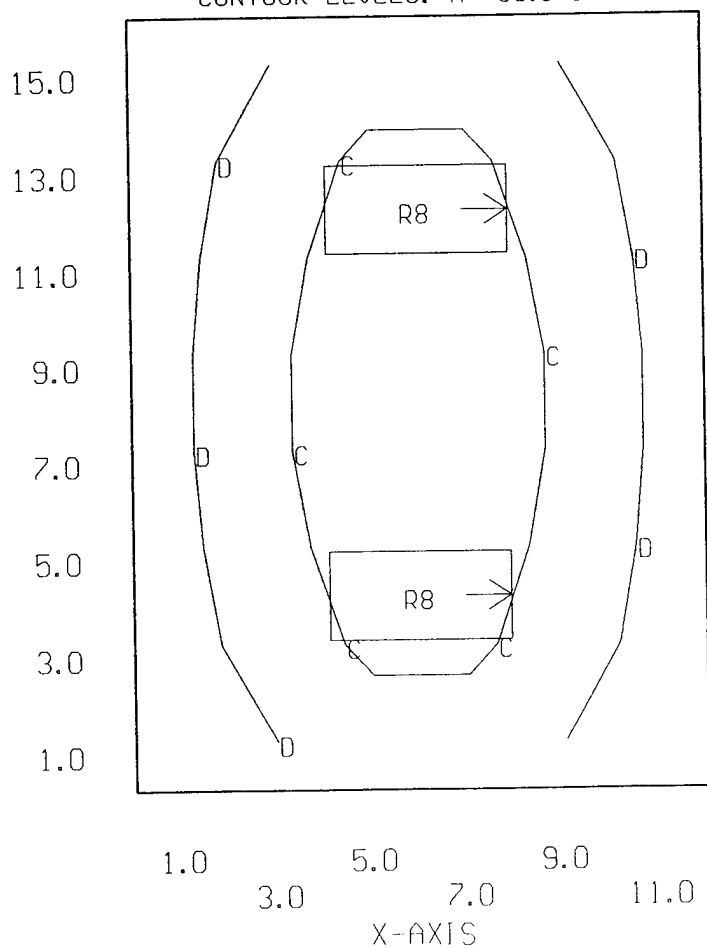


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 09:34 10-Mar-95
PROJECT: 34-120 AREA: BREAKROOM-N GRID: Ceiling
Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
Computed in accordance with IES recommendations

+ MIN=13.7 MAX=36.4 AVE=24.7 AVE/MIN= 1.80 MAX/MIN= 2.65

R8 <2> = 9868 COLUMBIA T84PS2*-84-242-2EOCT, <2> F032/31K, LLF= 0.66

Y-AXIS CONTOUR LEVELS: A= 50.0 B= 40.0 C= 30.0 D= 20.0 E= 10.0

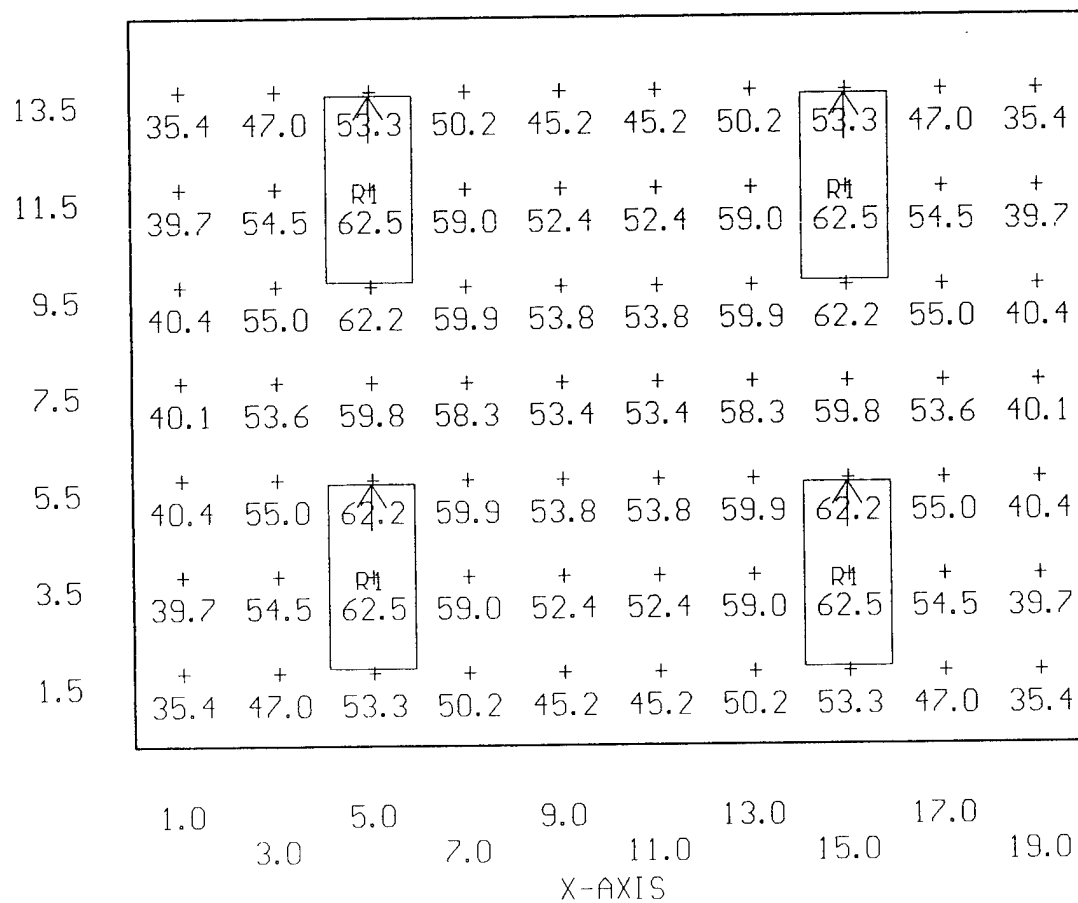


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 15:15 8-Feb-95
 PROJECT: 34-120 AREA: OFFICE 3 GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=35.4 MAX=62.5 AVE=51.6 AVE/MIN= 1.46 MAX/MIN= 1.77

R1 <4> = K7963 COLUMBIA 2SG340-EXA.125NOM, (3) F40CW, LLF= 0.68

Y-AXIS



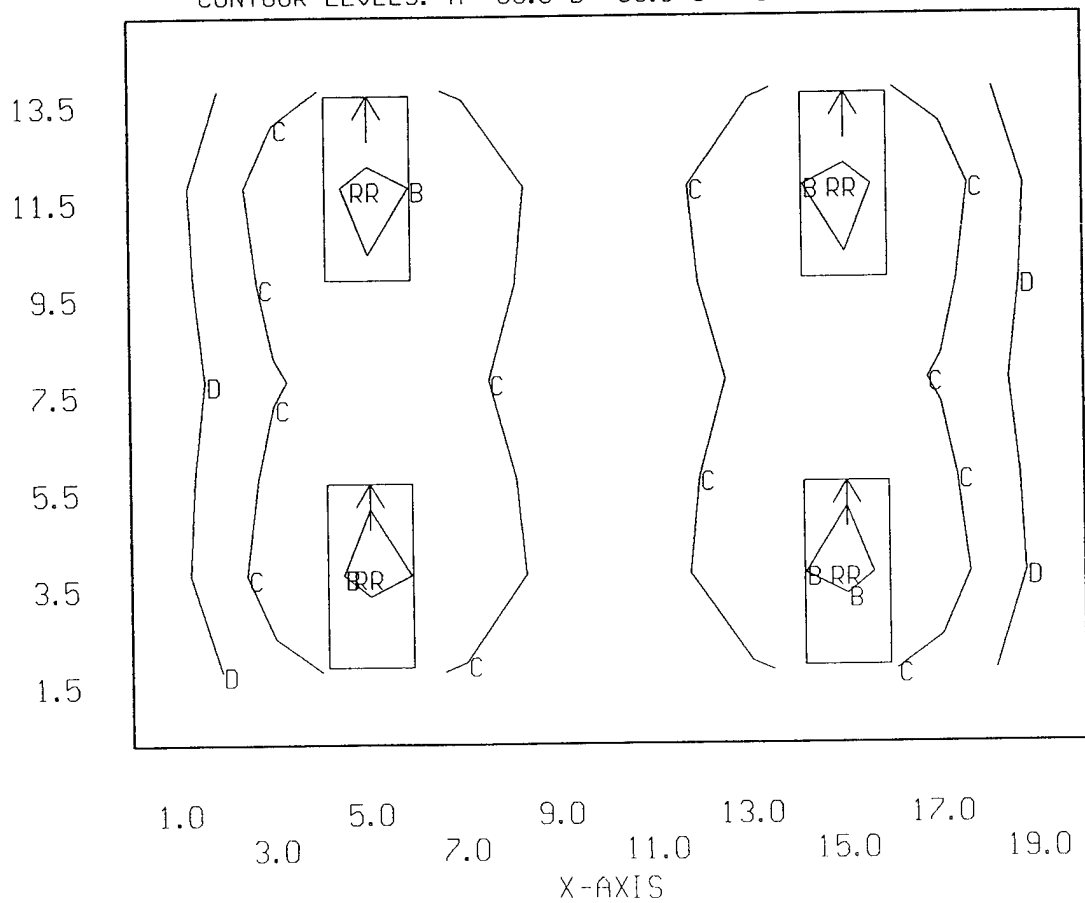
USI's LITE*PRO V2.27E Point-By-Point Numeric Output 09:56 10-Mar-95
 PROJECT: 34-120 AREA: OFFICE 3-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=24.3 MAX=52.0 AVE=38.6 AVE/MIN= 1.59 MAX/MIN= 2.14

RR <4> = T10620 METALOPTICS 24EKS042EP11, (2) F032/35K, LLF= 0.66

Y-AXIS

CONTOUR LEVELS: A= 60.0 B= 50.0 C= 40.0 D= 30.0 E= 20.0

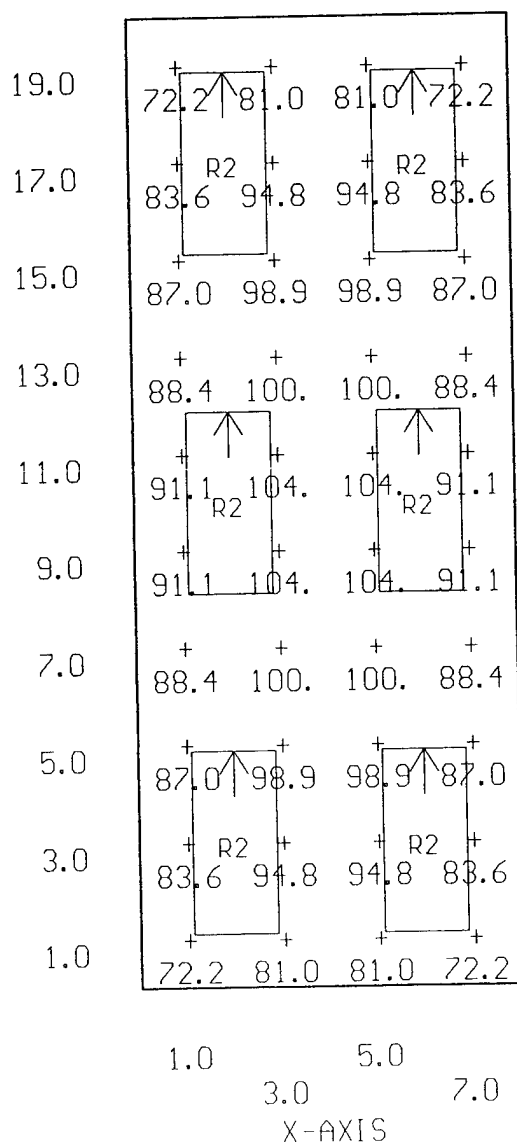


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 15:19 8-Feb-95
 PROJECT: 34-120 AREA: OFFICE 4 GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=72.2 MAX=104. AVE=90.1 AVE/MIN= 1.25 MAX/MIN= 1.43

R2 <6> = 9784 COLUMBIA 4PS2*-52-243, (3) F40CW/RS/WM, LLF= 0.63

Y-AXIS



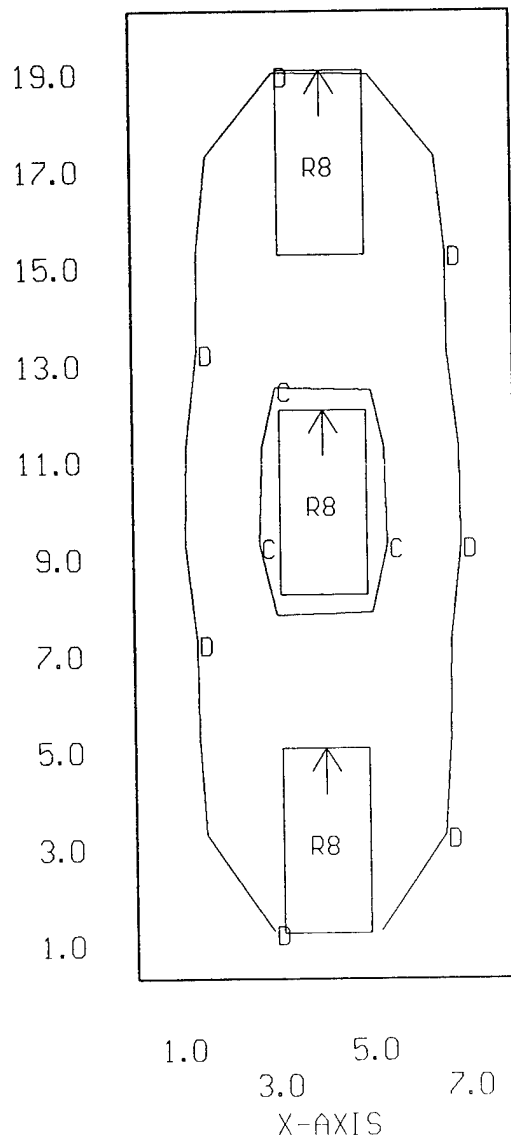
USI's LITE*PRO V2.27E Point-By-Point Numeric Output 09:54 10-Mar-95
 PROJECT: 34-120 AREA: OFFICE 4-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=30.0 MAX=52.2 AVE=42.1 AVE/MIN= 1.40 MAX/MIN= 1.74

R8 <3> = 9868 COLUMBIA T84PS2*-84-242-2EOCT, <2> F032/31K, LLF= 0.66

Y-AXIS

CONTOUR LEVELS: A= 70.0 B= 60.0 C= 50.0 D= 40.0 E= 30.0



Bldg 34-140 Summary

Present System

Fixture Type	Watts/ Fixture	Number Fixtures	Total Watts
A1	176	2	352
C	82	9	738
C1	83	1	83
D	220	10	2,200
E	100	4	400
Totals		26	3,773

Replacement System

Fixture Type	Watts/ Fixture	Number Fixtures	Total Watts
A8	105	11	1,155
C8	59	10	590
CF	85	4	340
Totals		25	2,085

34-140 Schedule

Reynolds, Smith & Hills, Inc.
4651 Salisbury Road
Jacksonville, FL 32256
Buildings Engineering

Luminaire Fixture Schedule
Generated by LitePro V2.27E
Provided and supported by USI Lighting, Inc.
Filename: 34-140 Type: Indoor

Luminaire Fixture Schedule /PRESENT

Project name: PBA Lighting Survey - Bldg. 34-140
Prepared for: CORP OF ENGINEERS
Prepared by: R. SHARMA

Project #6941331
Date: 7-Feb-95
UPD: 1.8W/Sq.Ft

TYPE	DESCRIPTION	LAMP/BALLAST	V/W	QTY	REMARKS
A1	11"X8' 2L APERTURED INDUSTRIAL OPEN BOTTOM- NO SHIELDING COLUMBIA CSR296-A	F96T12/CW STD	000 - 176	✓ 2	
C	11"X4' 2L INDUSTRIAL OPEN BOTTOM- NO SHIELDING COLUMBIA CSR240	F40CW/WM STD	000 - 82	✓ 9	
C1	15"X4' 2L CEILING MT.WRAPAROUND LENS- PRISMATIC W/ GLOW ENDS COLUMBIA WCW240-A	F40CW/RS/WM STD	000 - 83	✓ 1	
D	SC = 1.7 INDUSTRIAL REFLECTOR GE LIGHTING SBI15S	HR175DX39 STD	000 - 220	✓ 10	
E	6" RECESSED ROUND DOWNLIGHT OPEN- BL.BAFFLE W/ WIDE TRIM PRESCOLITE PBX-TB12	100A19/IF NA	000 - 100	✓ 4	

NOTES:

34-140 Schedule

Reynolds, Smith & Hills, Inc.
4651 Salisbury Road
Jacksonville, FL 32256
Buildings Engineering

Luminaire Fixture Schedule
Generated by LitePro V2.27E
Provided and supported by USI Lighting, Inc.
Filename: 34-140 Type: Indoor

Luminaire Fixture Schedule / ~~PROPOSED~~

Project name: PBA Lighting Survey - Bldg. 34-140
Prepared for: CORP OF ENGINEERS
Prepared by: R. SHARMA

Project #6941331
Date: 10-Mar-95
UPD: 1.0W/Sq.Ft

TYPE	DESCRIPTION	LAMP/BALLAST	V/W	QTY	REMARKS
A8	11"X8' 2L APERTURED INDUSTRIAL OPEN BOTTOM- NO SHIELDING COLUMBIA CSR296-A	FO96/735 ESB	000 - 105	11	
8	11"X4' 2L INDUSTRIAL OPEN BOTTOM- NO SHIELDING COLUMBIA CSR240	FO32/35K ESB	000 - 59	10	
CF	9" 3L ~~RECESSED~~ ROUND DOWNLIGHT OPEN - CLR.REFL. W/ BLK.BAFFLE ~~PRESCOLITE CFR926-B782~~	~~F26DTT/27K~~ STD	000 - ~~32~~ 85	4	

NOTES: COMPACT FLUOR- REPL. 100W INCAND

34-140 Areas

Reynolds, Smith & Hills, Inc.
 4651 Salisbury Road
 Jacksonville, FL 32256
 Buildings Engineering

Project Area Summary
 Generated by LitePro V2.27E
 Provided and supported by USI Lighting, Inc.
 Filename: 34-140 Type: Indoor

Project Area Summary

Project name: PBA Lighting Survey - Bldg. 34-140
 Prepared for: CORP OF ENGINEERS
 Prepared by: R. SHARMA

Project #6941331
 Date: 10-Mar-95
 UPD: 1.4W/Sq.Ft

AREA NAME	DIMENSIONS	LUMINAIRES	W/SQ.FT	QTY
OFFICE	12x15x8Ft	(2) Type A1	2.0	1
OFFICE-N	12x15x8Ft	(2) Type A8	1.2	1
WATER CHEM TEST	12x5x8Ft	(1) Type C (1) Type C1	2.8	1
WATER CHEM-N	12x5x8Ft	(1) Type A8	1.8	1
BOILER	20x30x25Ft	(6) Type C (2) Type D (4) Type E	2.2	1
BOILER-N	20x30x25Ft	(8) Type C8 (4) Type CF	1.4	1
RESTROOM	10x10x10Ft	(2) Type C	1.6	1
RESTROOM-N	10x10x10Ft	(2) Type C8	1.2	1
COMP. RM. #1	20x30x15Ft	(4) Type D	1.5	1
COMP. RM. #1-N	20x30x15Ft	(4) Type A8	0.7	1
COMP. RM. #2	20x30x15Ft	(4) Type D	1.5	1
COMP. RM. #2-N	20x30x15Ft	(4) Type A8	0.7	1

NOTES:

34-140 Calculations

Reynolds, Smith & Hills, Inc.
 4651 Salisbury Road
 Jacksonville, FL 32256
 Buildings Engineering

Project Calculation Summary
 Generated by LitePro V2.27E
 Provided and supported by USI Lighting, Inc.
 Filename: 34-140 Type: Indoor

Project Calculation Summary

Project name: PBA Lighting Survey - Bldg. 34-140
 Prepared for: CORP OF ENGINEERS
 Prepared by: R. SHARMA

Project #6941331
 Date: 10-Mar-95
 UPD: 1.4W/Sq.Ft

AREA NAME	DIMENSIONS	GRID NAME	AVE	MAX	MIN
OFFICE	12x15x8Ft	GRID	<+> 54.5	68.7	39.3
OFFICE-N	12x15x8Ft	GRID	<+> 48.3	61.0	34.8
WATER CHEM TEST	12x5x8Ft	GRID	<+> 40.7	78.4	12.9
WATER CHEM-N	12x5x8Ft	GRID	<+> 37.6	59.8	16.5
BOILER	20x30x25Ft	GRID	<+> 22.3	26.7	11.6
BOILER-N	20x30x25Ft	GRID	<+> 20.3	24.6	11.1
RESTROOM	10x10x10Ft	GRID	<+> 19.8 <*> 10.9	35.5 35.5	8.2 0.0
RESTROOM-N	10x10x10Ft	GRID	<+> 21.0 <*> 11.6	37.7 37.6	8.7 0.0
COMP. RM. #1	20x30x15Ft	GRID	<+> 25.6	44.6	7.0
COMP. RM. #1-N	20x30x15Ft	GRID	<+> 26.3	38.6	12.4
COMP. RM. #2	20x30x15Ft	GRID	<+> 25.6	44.6	7.0
COMP. RM. #2-N	20x30x15Ft	GRID	<+> 26.3	38.6	12.4

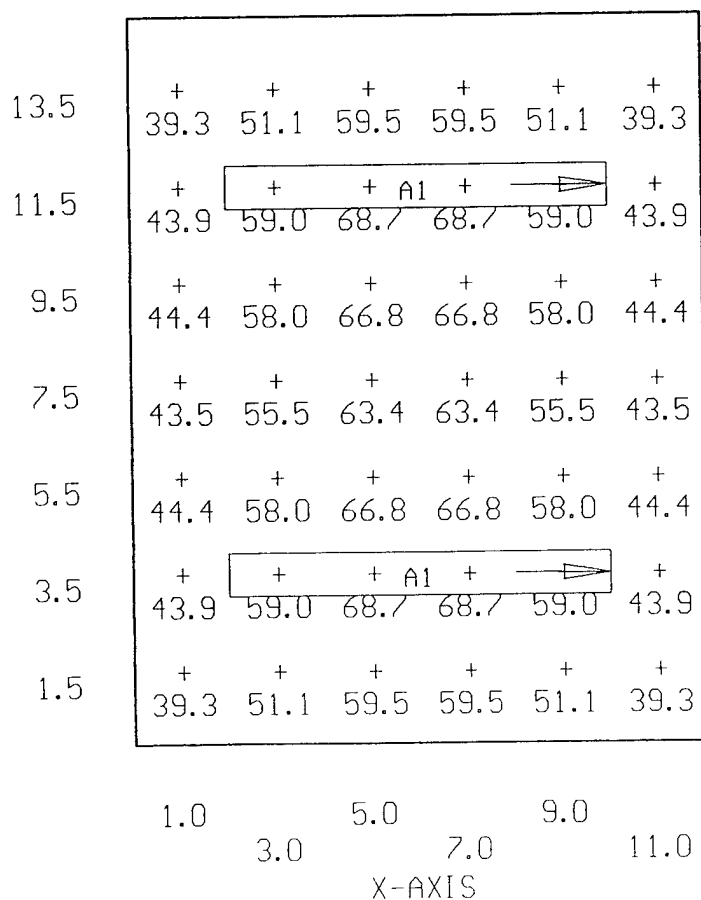
NOTES:

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:47 7-Feb-95
 PROJECT: 34-140 AREA: OFFICE GRID: GRID
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=39.3 MAX=68.7 AVE=54.5 AVE/MIN= 1.39 MAX/MIN= 1.75

A1 <2> = K8673 COLUMBIA CSR296-A, <2> F96T12/CW, LLF= 0.67

Y-AXIS

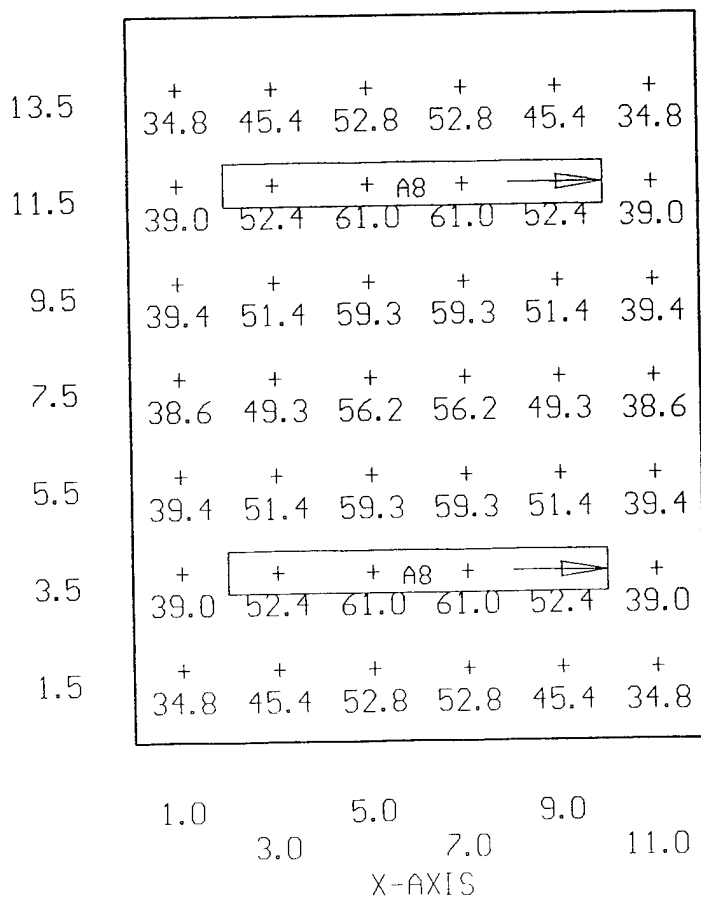


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 10:26 10-Mar-95
 PROJECT: 34-140 AREA: OFFICE-N GRID: GRID
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=34.8 MAX=61.0 AVE=48.3 AVE/MIN= 1.39 MAX/MIN= 1.75

A8 <2> = K8673 COLUMBIA CSR296-A, <2> F096/735, LLF= 0.66

Y-AXIS

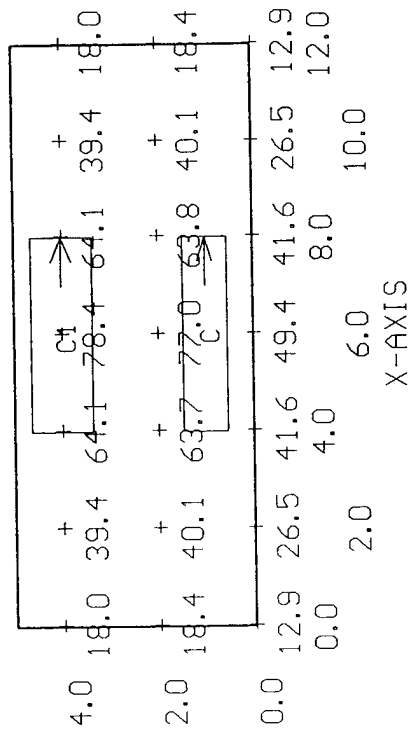


USI's LITE*PRO V2.27E Point-Buy-Point Numeric Output 17:00 7-Feb-95
 PROJECT: 34-140 AREA: WATER CHEM TEST GRID: GRID
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=12.9 MAX=78.4 AVE=40.7 AVE/MIN= 3.16 MAX/MIN= 6.09

C <1> = K7990 COLUMBIA CSR240, <2> F40CW/WM, LLF= 0.68
 C1 <1> = K9604 COLUMBIA WCH240-A, <2> F40CW/RS/WM, LLF= 0.68

Y-AXIS

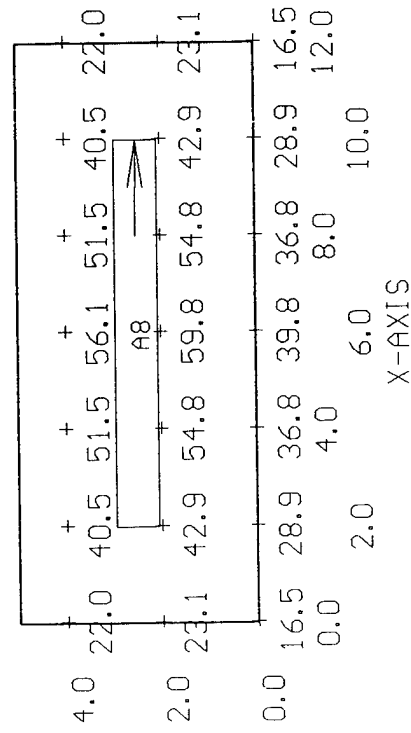


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 10:32 10-Mar-95
 PROJECT: 34-140 AREA: WATER CHEM-N GRID: GRID
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=16.5 MAX=59.8 AVE=37.6 AVE/MIN= 2.28 MAX/MIN= 3.63

A8 <1> = K8673 COLUMBIA CSR296-A, (2) F096/735, LLF= 0.66

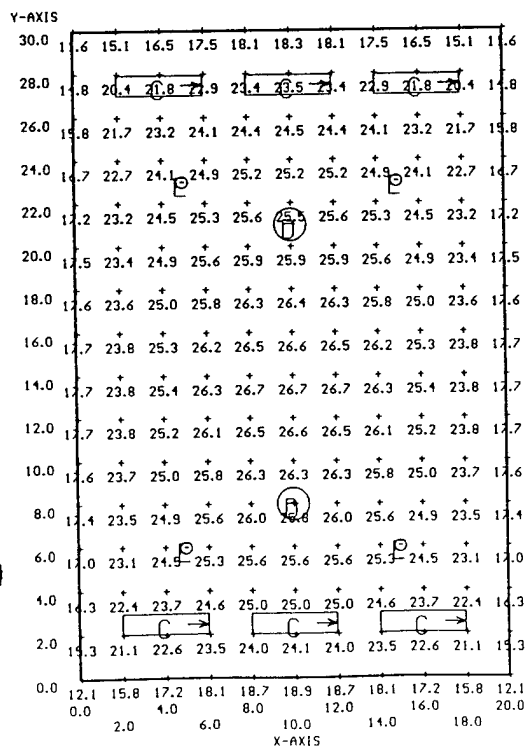
Y-AXIS



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:29 2-Feb-95
 PROJECT: 34-140 AREA: BOILER GRID: GRID
 Values are FC, SCALE: 1 IN= 9.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

MIN=11.6 MAX=26.7 AVE=22.3 AVE/MIN= 1.92 MAX/MIN= 2.31

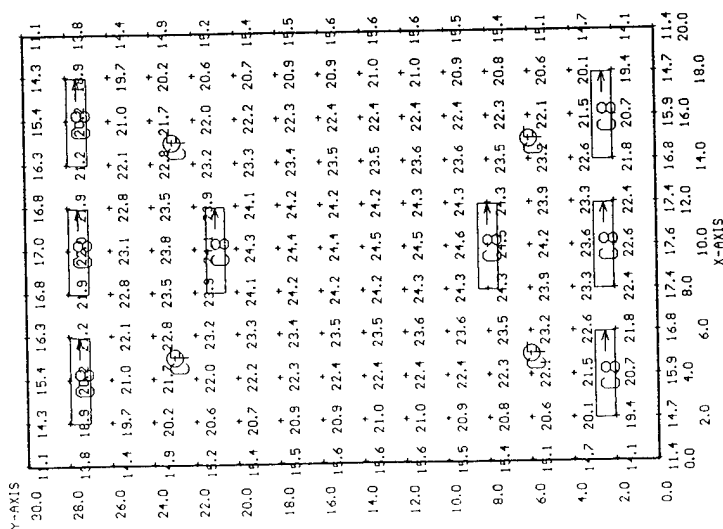
C <6> = K7990 COLUMBIA CSR240, <2> F40CW/WM, LLF= 0.68
 D <2> = GE7146 GE LIGHTING SBI15S, <1> HR175DX39, LLF= 0.66
 E <4> = B1401C PRESCOLITE PBX-TB12, <1> 100A19/IF, LLF= 0.76



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 10:47 10-Mar-95
 PROJECT: 34-140 AREA: BOILER-N GRID: GRID
 Values are FC, SCALE: 1 IN= 9.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=11.1 MAX=24.6 AVE=20.3 AVE/MIN= 1.84 MAX/MIN= 2.22

C8 <8> = K7990 COLUMBIA CSR240, <2> F032/35K, LLF= 0.66
 CF <4> = B2339B PRESCOLITE CFR926-B782, <3> F260TT/27K, LLF= 0.50

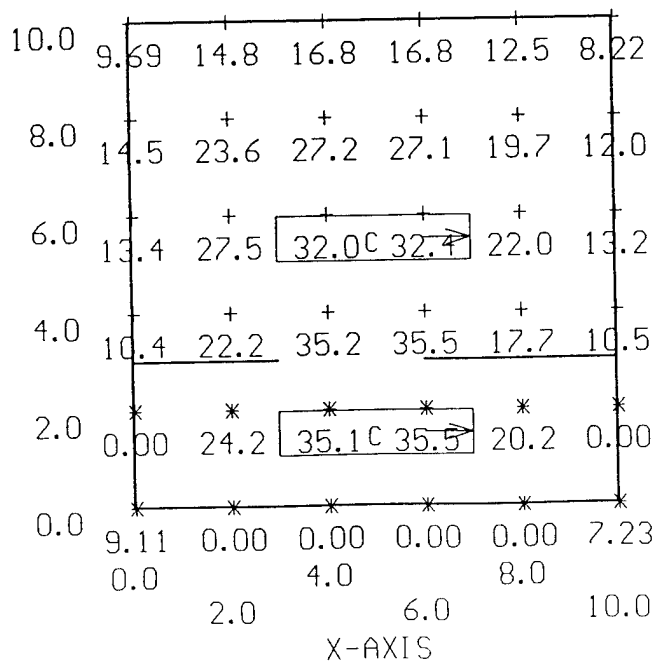


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:52 2-Feb-95
 PROJECT: 34-140 AREA: RESTROOM GRID: GRID
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=8.22 MAX=35.5 AVE=19.8 AVE/MIN= 2.41 MAX/MIN= 4.32
 * MIN=0.00 MAX=35.5 AVE=10.9 AVE/MIN=N/A MAX/MIN=N/A

C (2) = K7990 COLUMBIA CSR240, (2) F40CW/WM, LLF= 0.68

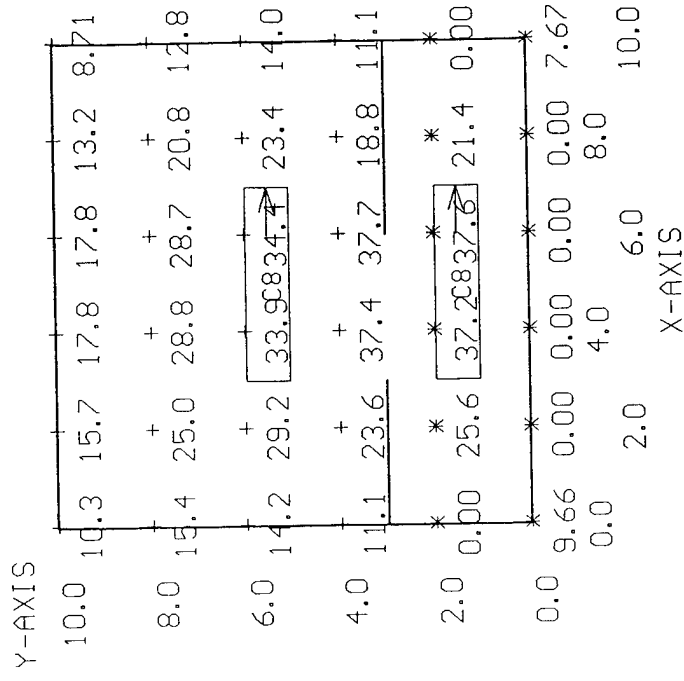
Y-AXIS



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 10:42 10-Mar-95
 PROJECT: 34-140 AREA: RESTROOM-N GRID: GRID
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=8.71 MAX=37.7 AVE=21.0 AVE/MIN= 2.41 MAX/MIN= 4.32
 * MIN=0.00 MAX=37.6 AVE=11.6 AVE/MIN=N/A MAX/MIN=N/A

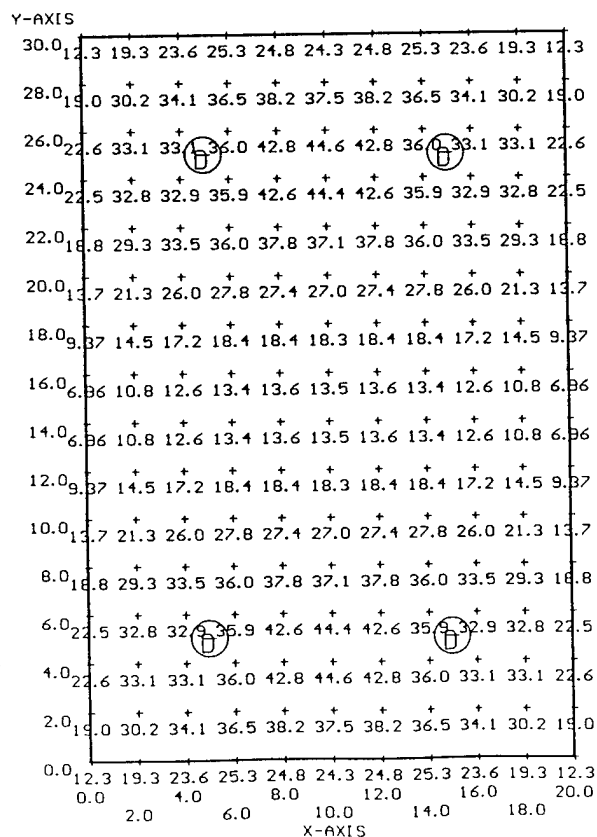
C8 <2> = K7990 COLUMBIA CSR240, <2> F032/35K, LLF= 0.66



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:40 2-Feb-95
 PROJECT: 34-140 AREA: COMP. RM #1 GRID: GRID
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=6.96 MAX=44.6 AVE=25.6 AVE/MIN= 3.69 MAX/MIN= 6.41

D <4> = GE7146 GE LIGHTING SBI15S, (1) HR175DX39, LLF= 0.66

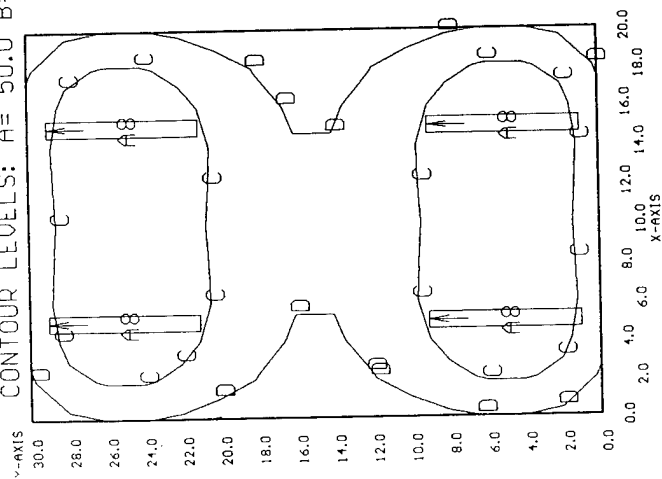


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 10:51 10-Mar-95
 PROJECT: 34-140 AREA: COMP. RM. #1-N GRID: GRID
 Values are FC, SCALE: 1 IN= 10.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=12.4 MAX=38.6 AVE=26.3 AVE/MIN= 2.13 MAX/MIN= 3.12

A8 <4> = K8673 COLUMBIA CSR296-A, <2> F096/735, LLF= 0.66

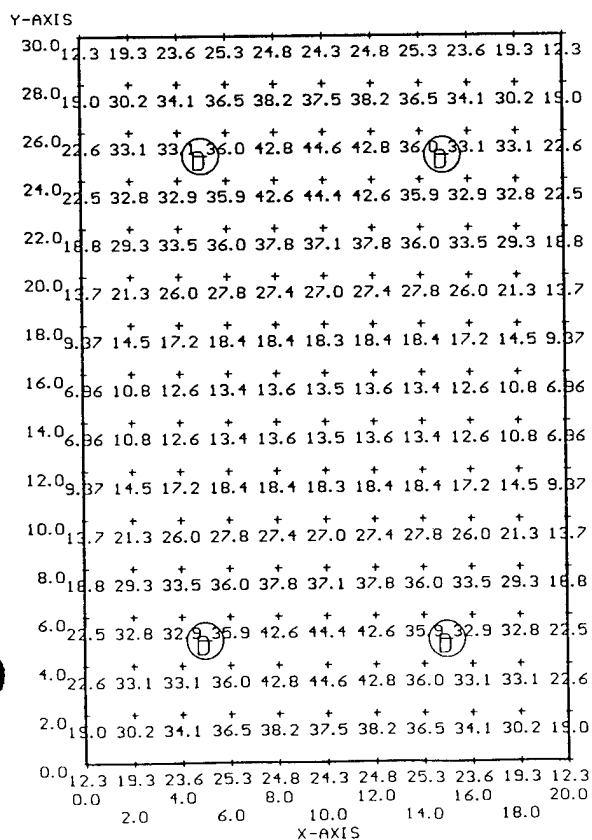
CONTOUR LEVELS: A= 50.0 B= 40.0 C= 30.0 D= 20.0 E= 10.0



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:44 2-Feb-95
PROJECT: 34-140 AREA: COMP. RM. #2 GRID: GRID
Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
Computed in accordance with IES recommendations

+ MIN=6.96 MAX=44.6 AVE=25.6 AVE/MIN= 3.69 MAX/MIN= 6.41

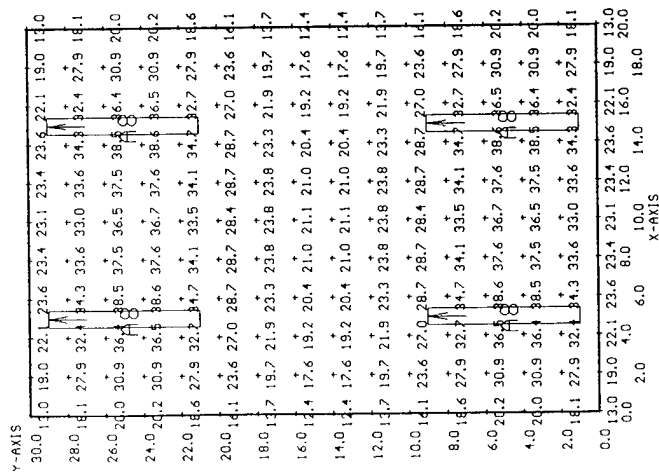
D (4) = GE7146 GE LIGHTING SBI15S, (1) HR175DX39, LLF= 0.66



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 10:56 10-Mar-95
 PROJECT: 34-140 AREA: COMP. RM. #2-N GRID: GRID
 Values are FC, SCALE: 1 IN= 10.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=12.4 MAX=38.6 AVE=26.3 AVE/MIN= 2.13 MAX/MIN= 3.12

48 <4> = K8673 COLUMBIA CSR296-A, <2> F096/735, LLF= 0.66



Bldg 34-910 Summary

Present System

Fixture Type	Watts/ Fixture	Number Fixtures	Total Watts
A	96	43	4,128
B	192	44	8,448
B1	171	6	1,026
C	346	179	61,934
C1	171	8	1,368
C2	246	4	984
C3	123	35	4,305
D	300	8	2,400
E	200	6	1,200
F	166	52	8,632
G	84	16	1,344
H	138	1	138
J	96	4	384
J1	164	2	328
J2	158	1	158
K	96	4	384
K1	192	1	192
K2	276	1	276
L	192	47	9,024
L1	96	11	1,056
L2	153	3	459
L3	72	3	216
L4	115	2	230
M	276	11	3,036
M1	192	1	192
M2	192	2	384
M3	192	10	1,920
S	171	2	342
Totals		507	114,488

Replacement System

Fixture Type	Watts/ Fixture	Number Fixtures	Total Watts
A8	59	56	3,304
AR	34	14	476
B8	110	11	1,210
C8	105	219	22,995
E	200	6	1,200
G8	59	62	3,658
H	138	1	138
I1	31	2	62
I8	60	28	1,680
L8	60	72	4,320
LR	57	9	513
M8	105	12	1,260
MH	130	8	1,040
Totals		500	41,856

Reynolds, Smith & Hills, Inc.
4651 Salisbury Road
Jacksonville, FL 32256
Buildings Engineering

Luminaire Fixture Schedule
Generated by LitePro V2.27E
Provided and supported by USI Lighting, Inc.
Filename: 34-910 Type: Indoor

Luminaire Fixture Schedule / ~~PRESENT~~

Project name: Lighting Survey
Prepared for: Corps of Engineers
Prepared by: C. Warren

Project #6941331
Date: 29-Dec-94
UPD: 2.0W/Sq.Ft

TYPE	DESCRIPTION	LAMP/BALLAST	V/W	QTY	REMARKS
A	15"X4'2L CEILING MT.WRAPAROUND LENS- PRISMATIC W/ GLOW ENDS COLUMBIA WCW240-A	F40CW STD	000 - 96	43	
	15"X4'4L CEILING MT.WRAPAROUND LENS- PRISMATIC W/ GLOW ENDS COLUMBIA WCW440-A	F40CW STD	000 - 192	44	
C	8'4L APER.PORCELAIN INDUSTRIAL OPEN BOTTOM- NO SHIELDING COLUMBIA KP496	F96T12/CW STD	000 - 346	3	
C1	11"X8' 2L INDUSTRIAL OPEN BOTTOM- NO SHIELDING COLUMBIA CSR296	F96T12/CW STD	000 - 173	2	
C2	8'4L APER.PORCELAIN INDUSTRIAL OPEN BOTTOM- NO SHIELDING COLUMBIA KP496	F96T12/CW/WM ESB	000 - 246	4	
C3	11"X8' 2L INDUSTRIAL OPEN BOTTOM- NO SHIELDING COLUMBIA CSR296	F96T12/CW/WM ESB	000 - 123	3	
D	8" RECESSED ROUND DOWNLIGHT OPEN ELLIPSOIDAL W/ BLK.BAFFLE PRESCOLITE 1059-732	300M/IF NA	000 - 300	8	
E	6" RECESSED ROUND DOWNLIGHT OPEN- ELLIPSOIDAL W/BLK.BAFFLE PRESCOLITE 1058-730	200A23/IF NA	000 - 200	6	
F	2X4 4L FLUSH STATIC TROFFER LENS- .125" POLARIZED PATT.12 COLUMBIA 4PS2*-87-244	F40CW ESB	000 - 166	40	

|G |2X4 2L FLUSH STATIC TROFFER

|F40CW

|000 |16|

	LENS-PRISMATIC ACRYLIC PATT-12 COLUMBIA 4PS2*-52-242	ESB	-	84		
H	4"X8' 2L EMBOSSED SURFACE STRIP OPEN BOTTOM- NO SHIELDING COLUMBIA CS296	F96T12/CW/WM STD	000 -	138	✓1	
J	7"X4' 2L WET LOCATION WRAP LENS- PRISMATIC BOTTOM & SIDES COLUMBIA LUN240-WL	F40CW STD	000 -	96	✓4	
K	11"X4' 2L APERTURED INDUSTRIAL OPEN- NO SHIELDING COLUMBIA CSR240-A	F40CW STD	000 -	96	✓1	
K1	1X4 4L APERTURED INDUSTRIAL OPEN - NO SHIELDING COLUMBIA KL496	F40CW STD	000 -	192	✓1	
K2	1X4 4L APERTURED INDUSTRIAL OPEN - NO SHIELDING COLUMBIA KL496	F96T12/CW/WM STD	000 -	276	✓1	
L	1X4 4L SOLID REFL.INDUSTRIAL OPEN - NO SHIELDING COLUMBIA KL440-SOLID	F40CW STD	000 -	192	✓33	
L1	11"X4' 2L INDUSTRIAL OPEN BOTTOM- NO SHIELDING COLUMBIA CSR240	F40CW STD	000 -	96	✓11	
L2	1X4 3L SOLID REFL.INDUSTRIAL OPEN - NO SHIELDING COLUMBIA KL340-SOLID	F40CW STD	000 -	153	✓3	
L3	11"X4' 2L INDUSTRIAL OPEN BOTTOM- NO SHIELDING COLUMBIA CSR240	F40CW/RS/WM ESB	000 -	72	✓3	
L4	1X4 3L SOLID REFL.INDUSTRIAL OPEN - NO SHIELDING COLUMBIA KL340-SOLID	F40CW/RS/WM ESB	000 -	115	✓2	
M	9"X8' 4L SURFACE TURRET STRIP OPEN BOTTOM- NO SHIELDING COLUMBIA K496-T	F96T12/CW/WM STD	000 -	276	✓11	
M1	9"X4' 4L SURFACE TURRET STRIP OPEN BOTTOM- NO SHIELDING COLUMBIA K440-T	F40CW STD	000 -	192	✓1	
2	9"X4' 4L SM HSG SURFACE STRIP OPEN BOTTOM- NO SHIELDING COLUMBIA CH440	F40CW STD	000 -	192	✓2	

34-910-1 Schedule

Reynolds, Smith & Hills, Inc.
4651 Salisbury Road
Jacksonville, FL 32256
Buildings Engineering

Luminaire Fixture Schedule
Generated by LitePro V2.27E
Provided and supported by USI Lighting, Inc.
Filename: 34-910-1 Type: Indoor

Luminaire Fixture Schedule /PRESENT

Project name: Lighting Survey
Prepared for: Corps of Engineers
Prepared by: C. Warren

Project #6941331
Date: 13-Feb-95
UPD: 2.3W/Sq.Ft

TYPE	DESCRIPTION	LAMP/BALLAST	V/W	QTY	REMARKS
B1	15"X4'4L CEILING MT.WRAPAROUND LENS- PRISMATIC W/ GLOW ENDS COLUMBIA WCW440-A	F40CW ESB	000 - 171	6	
C	8'4L APER.PORCELAIN INDUSTRIAL OPEN BOTTOM- NO SHIELDING COLUMBIA KP496	F96T12/CW STD	000 - 346	176	
C1	1X8 2L APERTURED INDUSTRIAL OPEN - NO SHIELDING COLUMBIA KP296	F96T12/CW STD	000 - 171	6	
C3	1X8 2L APERTURED INDUSTRIAL OPEN - NO SHIELDING COLUMBIA KP296	F96T12/CW/WM ESB	000 - 123	32	
F	2X4 4L FLUSH STATIC TROFFER LENS- .125" POLARIZED PATT.12 COLUMBIA 4PS2*-87-244	F40CW ESB	000 - 166	12	
J1	8"X8'4L(TANDEM) DAMP LOCA.WRAP LENS- IMPACT RESISTANT ACRYLIC COLUMBIA LU240-8-DMR	F40CW ESB	000 - 164	2	
J2	7"X5"X8' 2L WET LOCATION WRAP LENS- IMPACT RESISTANT ACRYLIC COLUMBIA LU296-WL	F96T12/CW ESB	000 - 158	1	
K	11"X4' 2L APERTURED INDUSTRIAL OPEN- NO SHIELDING COLUMBIA CSR240-A	F40CW STD	000 - 96	3	
L	1X4 4L SOLID REFL.INDUSTRIAL OPEN - NO SHIELDING COLUMBIA KL440-SOLID	F40CW STD	000 - 192	14	
M3	9"X4' 4L SURFACE TURRET STRIP	F40CW	000	10	

Page 2

34-910-1 Schedule

	EGGCRATE LOUVERS COLUMBIA K440-T	STD	- 192		
S	ACRYLIC TYPE V GE LIGHTING SAM15S	LU-150 STD	000 - 171	2	

NOTES:

34-910 Schedule

Reynolds, Smith & Hills, Inc.
4651 Salisbury Road
Jacksonville, FL 32256
Buildings Engineering

Luminaire Fixture Schedule
Generated by LitePro V2.27E
Provided and supported by USI Lighting, Inc.
Filename: 34-910 Type: Indoor

Luminaire Fixture Schedule / **PROPOSED**

Project name: Lighting Survey
Prepared for: Corps of Engineers
Prepared by: C. Warren

Project #6941331
Date: 15-Mar-95
UPD: 1.0W/Sq.Ft

TYPE	DESCRIPTION	LAMP/BALLAST	V/W	QTY	REMARKS
A8	15"X4'2L CEILING MT.WRAPAROUND LENS- PRISMATIC W/ GLOW ENDS COLUMBIA WCW240-A	FO32/35K EOCT	000 - 59	35	
3	15"X4'4L CEILING MT.WRAPAROUND LENS- PRISMATIC W/ GLOW ENDS COLUMBIA WCW440-A	FO32/35K EOCT	000 - 110	8	
E	6" RECESSED ROUND DOWNLIGHT OPEN- ELLIPSOIDAL W/BLK.BAFFLE PRESCOLITE 1058-730	200A23/IF NA	000 - 200	6	
G8	2X4 2L FLUSH STATIC TROFFER LENS-PRISMATIC ACRYLIC PATT-19 COLUMBIA T84PS2*-84-242-2EOCT	FO32/31K EOCT	000 - 59	46	
H	4"X8'2L EMBOSSED SURFACE STRIP OPEN BOTTOM- NO SHIELDING COLUMBIA CS296	F96T12/CW/WM STD	000 - 138	1	
I8	1X4 2L SPEC.REFL.INDUSTRIAL OPEN - NO SHIELDING COLUMBIA CSR240-SPREF-EOCT	FO32/35K EOCT	000 - 60	28	
MH	SC = 1.6 100 WATT MAXIMUM COLUMBIA SBI10M	M-100 STD	000 - 130	8	

NOTES:

Reynolds, Smith & Hills, Inc.
4651 Salisbury Road
Jacksonville, FL 32256
Buildings Engineering

Luminaire Fixture Schedule
Generated by LitePro V2.27E
Provided and supported by USI Lighting, Inc.
Filename: 34-910A Type: Indoor

Luminaire Fixture Schedule / **PROPOSED**

Project name: Lighting Survey
Prepared for: Corps of Engineers
Prepared by: C. Warren

Project #6941331
Date: 16-Mar-95
UPD: 0.7W/Sq.Ft

TYPE	DESCRIPTION	LAMP/BALLAST	V/W	QTY	REMARKS
A8	15"X4'2L CEILING MT.WRAPAROUND LENS- PRISMATIC W/ GLOW ENDS COLUMBIA WCW240-A	FO32/35K EOCT	000 - 59	17	
B8	11"X8' 2L INDUSTRIAL OPEN BOTTOM- NO SHIELDING COLUMBIA CSR296	FO96/735 EOCT	000 - 105	5	
G8	2X4 2L FLUSH STATIC TROFFER LENS-PRISMATIC ACRYLIC PATT-19 COLUMBIA T84PS2*-84-242-2EOCT	FO32/31K EOCT	000 - 59	4	
I1	1X4 1L SOLID REFL.INDUSTRIAL OPEN - NO SHIELDING COLUMBIA CSR140-PAF-EOCT	FO32/35K EOCT	000 - 31	2	
L8	1X4 2L SOLID REFL.INDUSTRIAL OPEN- NO SHIELDING COLUMBIA CSR240-PAF-EOCT	FO32/35K EOCT	000 - 60	51	
LR	4' OPEN INDUSTRIAL SILVER TASK BEAM REFLECTOR METALOPTICS ISS0FSFTTSO42EP11	FO32/35K EOCT	000 - 57	9	
M8	11"X8' 2L APERTURED INDUSTRIAL OPEN BOTTOM- NO SHIELDING COLUMBIA CSR296-A	FO96/735 EOCT	000 - 105	12	

NOTES:

34-910-1 Schedule

Reynolds, Smith & Hills, Inc.
4651 Salisbury Road
Jacksonville, FL 32256
Buildings Engineering

Luminaire Fixture Schedule
Generated by LitePro V2.27E
Provided and supported by USI Lighting, Inc.
Filename: 34-910-1 Type: Indoor

Luminaire Fixture Schedule /~~PROPOSED~~

Project name: Lighting Survey	Project #6941331
Prepared for: Corps of Engineers	Date: 16-Mar-95
Prepared by: C. Warren	UPD: 0.8W/Sq.Ft

TYPE	DESCRIPTION	LAMP/BALLAST	V/W	QTY	REMARKS
A8	15"X4'2L CEILING MT.WRAPAROUND LENS- PRISMATIC W/ GLOW ENDS COLUMBIA WCW240-A	FO32/35K EOCT	000 - 59	4	
R	4' ACRYLIC LENSED WRAPAROUND SILVER TASK BEAM REFLECTOR METALOPTICS WRSN4STACLO42EP11	FO32/35K EOCT	000 - 61	14	
B8	15"X4'4L CEILING MT.WRAPAROUND LENS- PRISMATIC W/ GLOW ENDS COLUMBIA WCW440-A	FO32/35K EOCT	000 - 110	3	
C8	11"X8' 2L INDUSTRIAL OPEN BOTTOM- NO SHIELDING COLUMBIA CSR296	FO96/735 EOCT	000 - 105	214	
G8	2X4 2L FLUSH STATIC TROFFER LENS-PRISMATIC ACRYLIC PATT-19 COLUMBIA T84PS2*-84-242-2EOCT	FO32/31K EOCT	000 - 59	12	
L8	1X4 2L SOLID REFL.INDUSTRIAL OPEN- NO SHIELDING COLUMBIA CSR240-PAF-EOCT	FO32/35K EOCT	000 - 60	21	

NOTES:

Reynolds, Smith & Hills, Inc.
4651 Salisbury Road
Jacksonville, FL 32256
Buildings Engineering

Project Area Summary
Generated by LitePro V2.27E
Provided and supported by USI Lighting, Inc.
Filename: 34-910 Type: Indoor

Project Area Summary

Project name: Lighting Survey
Prepared for: Corps of Engineers
Prepared by: C. Warren

Project #6941331
Date: 15-Mar-95
UPD: 1.7W/Sq.Ft

AREA NAME	DIMENSIONS	LUMINAIRES	W/SQ.FT	QTY
CHANGE ROOM 2	32x40x12Ft	(15) Type A	1.1	1
CHANGE ROOM 2-N	32x40x12Ft	(15) Type A8	0.7	1
CHANGE ROOM 1	20x30x12Ft	(7) Type A	1.1	1
CHANGE ROOM 1-N	20x30x12Ft	(7) Type A8	0.7	1
PAINT SHOP	32x40x32Ft	(8) Type D (6) Type E	2.8	1
PAINT SHOP-N	32x40x32Ft	(6) Type E (8) Type MH	1.8	1
SIGN SHOP	30x33x10Ft	(22) Type B	4.3	1
SIGN SHOP-N	30x33x10Ft	(18) Type I8	1.1	1
ENTOMOLOGY	15x17x10Ft	(2) Type C	2.7	1
ENTOMOLOGY-N	15x17x10Ft	(6) Type I8	1.4	1
PAINT OFFICE	15x17x10Ft	(4) Type B	3.0	1
PAINT OFFICE-N	15x17x10Ft	(4) Type I8	0.9	1
TOILET #2	32x20x12Ft	(8) Type A	1.2	1
TOILET #2-N	32x20x12Ft	(8) Type A8	0.7	1
TOILET #1	20x20x12Ft	(4) Type A	1.0	1
TOILET #1-N	20x20x12Ft	(4) Type A8	0.6	1
PM CONFERENCE	13x16x8Ft	(4) Type F	3.2	1
PM CONFERENCE-N	13x16x8Ft	(4) Type G8	1.1	1

PM HALL	6x16x8Ft	(2) Type F	3.5	1
PM HALL-N	6x16x8Ft	(1) Type G8	0.6	1
PM OFFICE 1	11x16x8Ft	(4) Type F	3.8	1
PM OFFICE 1-N	11x16x8Ft	(4) Type G8	1.3	1
PM OFFICE 2	11x16x8Ft	(4) Type F	3.8	1
PM OFFICE 2-N	11x16x8Ft	(4) Type G8	1.3	1
PM OFFICE 3	15x12x8Ft	(4) Type F	3.8	1
PM OFFICE 3-N	15x12x8Ft	(4) Type G8	1.4	1
WO CENTRAL	25x27x12Ft	(6) Type B	1.7	1
WO CENTRAL-N	25x27x12Ft	(6) Type B8	1.0	1
WO CENTRAL ADD	8x16x12Ft	(2) Type B	3.0	1
WO CNTRAL ADD-N	8x16x12Ft	(2) Type B8	1.7	1
WO OFFICES 1&2	10x10x8Ft	(2) Type G	1.7	2
WO OFFCES 1&2-N	10x10x8Ft	(2) Type G8	1.2	2
WO HALL	10x4x9Ft	(1) Type A	2.7	1
WO HALL-N	10x4x9Ft	(1) Type A8	1.7	1
WO OFFICE 3	10x18x8Ft	(4) Type G	1.9	1
WO OFFICE 3-N	10x18x8Ft	(4) Type G8	1.3	1
WO COPY ROOM	13x17x9Ft	(2) Type F	1.6	1
WO COPY ROOM-N	13x17x9Ft	(2) Type G8	0.6	1
WO STORAGE	8x16x10Ft	(1) Type H	1.1	1
WO BREAK ROOM	16x20x8Ft	(6) Type F	3.1	1
WO BREAK ROOM-N	16x20x8Ft	(4) Type G8	0.7	1
WO SECRETARY	14x36x8Ft	(8) Type F	2.6	1
WO SECRETARY-N	14x36x8Ft	(8) Type G8	0.9	1
WO SEC. ALCOVE	7x16x8Ft	(2) Type F	3.0	1
SEC. ALCOVE-N	7x16x8Ft	(2) Type G8	1.1	1
WO MICROFICHE	20x15x8Ft	(6) Type G	1.7	1

24-910 Areas

CROFICHE-N	20x15x8Ft	(4)	Type G8	0.8	1
WO MIC STORAGE	10x15x8Ft	(2)	Type G	1.1	1
MIC STORAGE-N	10x15x8Ft	(1)	Type G8	0.4	1

NOTES:

34-910A Areas

Reynolds, Smith & Hills, Inc.
4651 Salisbury Road
Jacksonville, FL 32256
Buildings Engineering

Project Area Summary
Generated by LitePro V2.27E
Provided and supported by USI Lighting, Inc.
Filename: 34-910A Type: Indoor

Project Area Summary

Project name: Lighting Survey
Prepared for: Corps of Engineers
Prepared by: C. Warren

Project #6941331
Date: 16-Mar-95
UPD: 1.2W/Sq.Ft

AREA NAME	DIMENSIONS	LUMINAIRES	W/SQ.FT	QTY
UTILITIES BREAK	12x14x8Ft	(4) Type B	4.6	1
UTIL. BREAK-N	12x14x8Ft	(2) Type A8	0.7	1
UTIL KITCHEN	12x6x8Ft	(2) Type J	2.7	1
UTIL KITCHEN-N	12x6x8Ft	(1) Type A8	0.8	1
UTIL OFFICE	12x8x8Ft	(2) Type J	2.0	1
UTIL OFFICE-N	12x8x8Ft	(2) Type A8	1.2	1
WOMEN'S CHANGE	11x50x12Ft	(8) Type A	1.4	1
WOMENS CHANGE-N	11x50x12Ft	(8) Type A8	0.9	1
HALL - CHANGE 1	30x4x12Ft	(1) Type K1	1.6	1
HALL/CHANGE 1-N	30x4x12Ft	(2) Type I1	0.5	1
GROUPS/MAINT.	24x12x8Ft	(3) Type B (1) Type L	2.7	1
GROUPS/MAINT-N	24x12x8Ft	(4) Type A8	0.8	1
REFRIG SHOP	36x48x14Ft	(9) Type M	1.4	1
REFRIG SHOP-N	36x48x14Ft	(9) Type M8	0.5	1
REFRIG HALL	18x48x14Ft	(2) Type B (1) Type K2 (2) Type M	1.4	1
REFRIG HALL-N	18x48x14Ft	(3) Type M8	0.4	1
ELEC SHOP BREAK	20x24x14Ft	(2) 8'2" Type C1 (3) 4'2" Type L1	1.6	1

		(1) 4' 3L Type L2		
ELEC SHOP BRK-N	20x24x14Ft	(6) 4' 2L Type L8	0.8	1
ELEC SHOP HALL1	5x14x10Ft	(1) Type L2	2.2	1
ELEC SP HALL1-N	5x14x10Ft	(1) Type L8	0.9	1
ELEC SHOP HALL2	21x6x10Ft	(2) Type L1	1.5	1
ELEC SP HALL2-N	21x6x10Ft	(1) Type L8	0.5	1
ELEC SHOP WORK	10x30x10Ft	(4) Type L1	1.3	1
ELEC SHP WORK-N	10x30x10Ft	(4) Type L8	0.8	1
ELEC OFFICE 1	13x18x10Ft	(2) Type L1 (1) Type L2 (1) Type M1	2.3	1
ELEC OFFICE 1-N	13x18x10Ft	(4) Type L8	1.0	1
ELEC SM PTS STO	9x18x10Ft	(2) Type M2	2.4	1
ELEC PTS STO-N	9x18x10Ft	(2) Type L8	0.7	1
LOCKSMITH	8x49x10Ft	(3) Type L (3) Type L3 (2) Type L4	2.6	1
LOCKSMITH-N	8x49x10Ft	(2) Type L8 (5) Type LR	1.0	1
INSTR SHOP BRK	16x18x10Ft	(3) Type L	2.0	1
INSTR SHP BRK-N	16x18x10Ft	(4) Type L8	0.8	1
INST ENTRANCE	20x19x10Ft	(3) Type L	1.5	1
INST ENTRANCE-N	20x19x10Ft	(4) Type L8	0.6	1
INST SHP OFFICE	12x19x8Ft	(4) Type F	2.9	1
INST SHP OFC-N	12x19x8Ft	(4) Type G8	1.0	1
WASH AREA	16x11x10Ft	(2) Type L	2.2	1
WASH AREA-N	16x11x10Ft	(2) Type L8	0.7	1
MILLWRIGHT ENT1	50x11x10Ft	(2) Type C2 (3) Type C3	1.6	1
MILLWRT ENT1-N	50x11x10Ft	(3) Type C8	0.6	1
INST SHOP WORK	16x18x10Ft	(3) Type L	2.0	1

| INST SHP WORK-N | 16x18x10Ft

| (4)

Type LR |

0.8 |

1 |

MILLWRIGHT ENT2	21x18x10Ft	(2) Type C2	1.3	1
MILLWRT ENT2-N	21x18x10Ft	(2) Type C8	0.6	1
MILLWRIGHT OFC	12x18x10Ft	(4) Type L	3.6	1
MILLWRT OFC-N	12x18x10Ft	(4) Type L8	1.1	1
MILLWRIGHT STO	23x20x10Ft	(3) Type L	1.3	1
MILLWRT STO-N	23x20x10Ft	(3) Type L8	0.4	1
MILLWRIGHT SHP1	31x49x12Ft	(1) Type B (1) Type C (1) Type K (11) Type L	1.8	1
MILLWRT SHP1-N	31x49x12Ft	(14) Type L8	0.6	1

NOTES:

34-910-1 Areas

Reynolds, Smith & Hills, Inc.
 4651 Salisbury Road
 Jacksonville, FL 32256
 Buildings Engineering

Project Area Summary
 Generated by LitePro V2.27E
 Provided and supported by USI Lighting, Inc.
 Filename: 34-910-1 Type: Indoor

Project Area Summary

Project name: Lighting Survey
 Prepared for: Corps of Engineers
 Prepared by: C. Warren

Project #6941331
 Date: 16-Mar-95
 UPD: 1.6W/Sq.Ft

AREA NAME	DIMENSIONS	LUMINAIRES	W/SQ.FT	QTY
MILLWRIGHT SHP2	36x14x12Ft	(3) Type L (2) Type S	1.8	1
MILLWRT SHP2-N	36x14x12Ft	(8) Type L8	1.0	1
TOOL & DIE LUNC	36x29x9Ft	(12) Type F	1.9	1
TOOL DIE LUNC-N	36x29x9Ft	(12) Type G8	0.7	1
TOOL & DIE 1	116x32x20Ft	(47) Type C	4.4	1
TOOL & DIE 1-N	116x32x20Ft	(47) Type C8	1.3	1
TOOL & DIE 2	97x66x20Ft	(67) Type C	3.6	1
TOOL & DIE 2-N	97x66x20Ft	(67) Type C8	1.1	1
TOOL & DIE 3	116x44x20Ft	(50) Type C	3.4	1
TOOL & DIE 3-N	116x44x20Ft	(50) Type C8	1.0	1
TOOL & DIE STO	18x38x8Ft	(2) Type C (1) Type C1 (1) Type K (2) Type L	2.0	1
TOOL DIE STO-N	18x38x8Ft	(3) Type C8 (3) Type L8	0.7	1
TOOL & DIE OFC	18x20x8Ft	(8) Type L	4.3	1
TOOL DIE OFC-N	18x20x8Ft	(6) Type L8	1.0	1
TOOL ROOM	48x60x12Ft	(3) Type B1 (14) Type C3	0.8	1
TOOL ROOM-N	48x60x12Ft	(3) Type B8	0.6	1

		(14)	Type C8		
TOOL HALLWAY	72x6x12Ft	(2)	Type C	1.6	1
TOOL HALLWAY-N	72x6x12Ft	(2)	Type C8	0.5	1
BGU WORK AREA	17x26x12Ft	(4)	Type M3	1.7	1
BGU WORK AREA-N	17x26x12Ft	(6)	Type AR	0.8	1
BGU BREAK ROOM	13x12x8Ft	(3)	Type B1	3.3	1
BGU BRK ROOM-N	13x12x8Ft	(2)	Type A8	0.8	1
BGU OFFICE 1	12x12x12Ft	(2)	Type M3	2.7	1
BGU OFFICE 1-N	12x12x12Ft	(4)	Type AR	1.7	1
BGU OFFICE 2	12x16x12Ft	(4)	Type M3	4.0	1
BGU OFFICE 2-N	12x16x12Ft	(4)	Type AR	1.3	1
BGU ENTRANCE	12x8x12Ft	(1)	Type L	2.0	1
BGU ENTRANCE-N	12x8x12Ft	(1)	Type L8	0.6	1
BGU KITCHEN	36x6x8Ft	(2)	Type J1	1.5	1
BGU KITCHEN-N	36x6x8Ft	(2)	Type A8	0.5	1
SHEET METAL	80x71x20Ft	(8) (5) (1) (2)	Type C Type C1 Type J2 Type K	0.7	1
SHEET METAL-N	80x71x20Ft	(13) (3)	Type C8 Type L8	0.3	1
STORAGE CRIB	87x48x20Ft	(18)	Type C3	0.5	1
STORAGE CRIB-N	87x48x20Ft	(18)	Type C8	0.5	1

NOTES:

34-910 Calculations

Reynolds, Smith & Hills, Inc.
 4651 Salisbury Road
 Jacksonville, FL 32256
 Buildings Engineering

Project Calculation Summary
 Generated by LitePro V2.27E
 Provided and supported by USI Lighting, Inc.
 Filename: 34-910 Type: Indoor

Project Calculation Summary

Project name: Lighting Survey
 Prepared for: Corps of Engineers
 Prepared by: C. Warren

Project #6941331
 Date: 15-Mar-95
 UPD: 1.7W/Sq.Ft

AREA NAME	DIMENSIONS	GRID NAME	AVE	MAX	MIN
CHANGE ROOM 2	32x40x12Ft	Ch. Rm. 2	<+> 34.7	47.5	5.3
CHANGE ROOM 2-N	32x40x12Ft	Ch. Rm. 2	<+> 34.0	42.4	7.3
CHANGE ROOM 1	20x30x12Ft	Ceiling	<+> 30.7	44.6	5.4
CHANGE ROOM 1-N	20x30x12Ft	Ceiling	<+> 27.4	39.8	4.8
PAINT SHOP	32x40x32Ft	Ceiling	<+> 16.6	70.5	1.5
PAINT SHOP-N	32x40x32Ft	Ceiling	<+> 29.5	81.1	6.6
SIGN SHOP	30x33x10Ft	Ceiling	<+> 119.6	173.2	45.2
SIGN SHOP-N	30x33x10Ft	Ceiling	<+> 63.9	89.2	25.9
ENTOMOLOGY	15x17x10Ft	Ceiling	<+> 69.6	99.1	33.7
ENTOMOLOGY-N	15x17x10Ft	Ceiling	<+> 57.2	79.0	32.0
PAINT OFFICE	15x17x10Ft	Ceiling	<+> 74.9	102.9	47.0
PAINT OFFICE-N	15x17x10Ft	Ceiling	<+> 44.7	55.9	36.0
TOILET #2	32x20x12Ft	Toilet 2	<+> 32.2	46.6	6.4
TOILET #2-N	32x20x12Ft	Toilet 2	<+> 28.8	41.5	5.7
TOILET #1	20x20x12Ft	Toilet 2	<+> 25.5	48.6	4.6
TOILET #1-N	20x20x12Ft	Toilet 2	<+> 22.8	43.4	4.1
PM CONFERENCE	13x16x8Ft	Ceiling	<+> 74.3	89.3	53.1

CONFERENCE-N	13x16x8Ft	Ceiling C.U. CALC	<+> 50.8 32.2	63.0 ---	35.4 ---
PM HALL	6x16x8Ft	Ceiling	<+> 66.7	81.2	57.8
PM HALL-N	6x16x8Ft	Ceiling	<+> 23.7	44.2	9.6
PM OFFICE 1	11x16x8Ft	Ceiling	<+> 69.7	80.8	54.7
PM OFFICE 1-N	11x16x8Ft	Ceiling	<+> 44.5	51.7	34.5
PM OFFICE 2	11x16x8Ft	Ceiling	<+> 68.1	81.1	49.7
PM OFFICE 2-N	11x16x8Ft	Ceiling	<+> 43.4	51.8	31.1
PM OFFICE 3	15x12x8Ft	Ceiling	<+> 70.2	81.5	53.6
PM OFFICE 3-N	15x12x8Ft	Ceiling	<+> 44.7	52.0	33.7
WO CENTRAL	25x27x12Ft	Ceiling	<+> 48.2	64.4	23.8
WO CENTRAL-N	25x27x12Ft	Ceiling	<+> 43.9	58.7	21.7
WO CENTRAL ADD	8x16x12Ft	Ceiling	<+> 54.8	65.5	42.0
CNTRAL ADD-N	8x16x12Ft	Ceiling	<+> 50.0	59.8	38.3
WO OFFICES 1&2	10x10x8Ft	Ceiling	<+> 36.9	52.6	23.8
WO OFFCES 1&2-N	10x10x8Ft	Ceiling	<+> 37.4	54.7	23.5
WO HALL	10x4x9Ft	Ceiling	<+> 31.5	39.3	23.3
WO HALL-N	10x4x9Ft	Ceiling	<+> 28.1	35.0	20.7
WO OFFICE 3	10x18x8Ft	Ceiling	<+> 50.2	61.0	39.0
WO OFFICE 3-N	10x18x8Ft	Ceiling	<+> 49.1	61.5	37.2
WO COPY ROOM	13x17x9Ft	Ceiling	<+> 39.6	62.6	17.0
WO COPY ROOM-N	13x17x9Ft	Ceiling	<+> 25.3	38.7	10.7
WO STORAGE	8x16x10Ft	Ceiling	<+> 22.1	29.8	14.8
WO BREAK ROOM	16x20x8Ft	Ceiling	<+> 75.3	99.0	49.6
WO BREAK ROOM-N	16x20x8Ft	Ceiling	<+> 35.2	59.4	11.6
WO SECRETARY	14x36x8Ft	Ceiling	<+> 64.2	84.1	49.4
WO SECRETARY-N	14x36x8Ft	Ceiling	<+> 40.2	50.2	31.3
WO SEC. ALCOVE	7x16x8Ft	Ceiling	<+> 57.9	109.9	17.8

C. ALCOVE-N	7x16x8Ft	Ceiling	<+>	37.1	68.8	11.5
WO MICROFICHE	20x15x8Ft	Ceiling	<+>	44.0	71.4	22.7
MICROFICHE-N	20x15x8Ft	Ceiling	<+>	35.0	54.4	9.8
WO MIC STORAGE	10x15x8Ft	Ceiling	<+>	28.2	41.9	16.0
MIC STORAGE-N	10x15x8Ft	Ceiling	<+>	16.6	38.5	2.9

NOTES:

34-910A Calculations

Reynolds, Smith & Hills, Inc.
 4651 Salisbury Road
 Jacksonville, FL 32256
 Buildings Engineering

Project Calculation Summary
 Generated by LitePro V2.27E
 Provided and supported by USI Lighting, Inc.
 Filename: 34-910A Type: Indoor

Project Calculation Summary

Project name: Lighting Survey
 Prepared for: Corps of Engineers
 Prepared by: C. Warren

Project #6941331
 Date: 16-Mar-95
 UPD: 1.2W/Sq.Ft

AREA NAME	DIMENSIONS	GRID NAME	AVE	MAX	MIN
UTILITIES BREAK	12x14x8Ft	Ceiling	<+> 107.6	125.7	83.2
UTIL. BREAK-N	12x14x8Ft	Ceiling	<+> 27.2	41.9	14.2
UTIL KITCHEN	12x6x8Ft	Ceiling	<+> 31.8	37.0	26.7
UTIL KITCHEN-N	12x6x8Ft	Ceiling	<+> 22.5	33.3	13.7
UTIL OFFICE	12x8x8Ft	Ceiling	<+> 27.9	33.6	22.1
UTIL OFFICE-N	12x8x8Ft	Ceiling	<+> 36.2	45.3	27.7
WOMEN'S CHANGE	11x50x12Ft	Ceiling	<+> 36.5	54.2	13.1
WOMENS CHANGE-N	11x50x12Ft	Ceiling	<+> 32.6	48.3	11.7
HALL - CHANGE 1	30x4x12Ft	Ceiling	<+> 17.2	34.1	1.5
HALL/CHANGE 1-N	30x4x12Ft	Ceiling	<+> 11.7	13.6	8.3
GROUPS/MAINT.	24x12x8Ft	Ceiling	<+> 67.7	101.3	36.8
GROUPS/MAINT-N	24x12x8Ft	Ceiling	<+> 32.4	48.3	17.9
REFRIG SHOP	36x48x14Ft	Ceiling	<+> 46.5	91.7	10.0
REFRIG SHOP-N	36x48x14Ft	Ceiling	<+> 33.5	68.4	6.3
REFRIG HALL	18x48x14Ft	Ceiling	<+> 37.5	86.7	12.1
REFRIG HALL-N	18x48x14Ft	Ceiling	<+> 17.1	24.7	9.8
ELEC SHOP BREAK	20x24x14Ft	Ceiling	<+> 54.0	89.1	14.7
ELEC SHOP BRK-N	20x24x14Ft	Ceiling	<+> 27.0	33.7	18.8

EC SHOP HALL1	5x14x10Ft	Ceiling	<+>	35.4	59.0	18.4
ELEC SP HALL1-N	5x14x10Ft	Ceiling	<+>	23.4	38.5	12.4
ELEC SHOP HALL2	21x6x10Ft	Ceiling	<+>	31.2	44.2	8.7
ELEC SP HALL2-N	21x6x10Ft	Ceiling	<+>	14.9	33.0	3.2
ELEC SHOP WORK	10x30x10Ft	Ceiling	<+>	34.8	62.1	8.8
ELEC SHP WORK-N	10x30x10Ft	Ceiling	<+>	32.0	56.6	8.2
ELEC OFFICE 1	13x18x10Ft	Ceiling	<+>	59.1	90.3	19.4
ELEC OFFICE 1-N	13x18x10Ft	Ceiling	<+>	40.3	62.5	13.1
ELEC SM PTS STO	9x18x10Ft	Ceiling	<+>	54.0	78.8	26.2
ELEC PTS STO-N	9x18x10Ft	Ceiling	<+>	26.0	38.4	12.0
LOCKSMITH	8x49x10Ft	Ceiling	<+>	61.7	106.0	18.7
LOCKSMITH-N	8x49x10Ft	Ceiling	<+>	53.5	114.1	11.8
INSTR SHOP BRK	16x18x10Ft	Ceiling	<+>	52.9	115.2	11.0
INSTR SHP BRK-N	16x18x10Ft	Ceiling	<+>	35.1	45.9	22.2
INST ENTRANCE	20x19x10Ft	Ceiling	<+>	42.1	77.0	10.5
INST ENTRANCE-N	20x19x10Ft	Ceiling	<+>	28.1	38.5	15.8
INST SHP OFFICE	12x19x8Ft	Ceiling	<+>	66.5	118.2	20.9
INST SHP OFC-N	12x19x8Ft	Ceiling	<+>	44.3	77.7	12.5
WASH AREA	16x11x10Ft	Ceiling	<+>	48.1	72.6	22.7
WASH AREA-N	16x11x10Ft	Ceiling	<+>	24.8	35.7	13.4
MILLWRIGHT ENT1	50x11x10Ft	Ceiling	<+>	62.4	122.7	14.4
MILLWRT ENT1-N	50x11x10Ft	Ceiling	<+>	25.2	38.3	10.7
INST SHOP WORK	16x18x10Ft	Ceiling	<+>	53.7	102.7	9.5
INST SHP WORK-N	16x18x10Ft	Ceiling	<+>	50.6	76.6	23.6
MILLWRIGHT ENT2	21x18x10Ft	Ceiling	<+>	52.4	106.0	11.1
MILLWRT ENT2-N	21x18x10Ft	Ceiling	<+>	26.2	53.6	6.1
MILLWRIGHT OFC	12x18x10Ft	Ceiling	<+>	76.6	117.8	26.5
MILLWRT OFC-N	12x18x10Ft	Ceiling	<+>	39.8	59.6	15.1

34-910A Calculations

MILLWRIGHT STO	23x20x10Ft	Ceiling	<+>	34.4	65.4	8.1
MILLWRT STO-N	23x20x10Ft	Ceiling	<+>	18.1	32.0	5.7
MILLWRIGHT SHP1	31x49x12Ft	Ceiling	<+>	54.6	96.8	16.1
MILLWRT SHP1-N	31x49x12Ft	Ceiling	<+>	34.0	46.3	16.3

NOTES:

34-910-1 Calculations

Reynolds, Smith & Hills, Inc.
4651 Salisbury Road
Jacksonville, FL 32256
Buildings Engineering

Project Calculation Summary
Generated by LitePro V2.27E
Provided and supported by USI Lighting, Inc.
Filename: 34-910-1 Type: Indoor

Project Calculation Summary

Project name: Lighting Survey
Prepared for: Corps of Engineers
Prepared by: C. Warren

Project #6941331
Date: 16-Mar-95
UPD: 1.6W/Sq.Ft

AREA NAME	DIMENSIONS	GRID NAME	AVE	MAX	MIN
MILLWRIGHT SHP2	36x14x12Ft	Ceiling	<+> 40.3	79.5	16.0
MILLWRT SHP2-N	36x14x12Ft	Ceiling	<+> 39.1	49.4	25.5
TOOL & DIE LUNC	36x29x9Ft	Ceiling	<+> 50.7	67.6	28.1
TOOL DIE LUNC-N	36x29x9Ft	Ceiling	<+> 33.6	43.5	18.3
TOOL & DIE 1	116x32x20Ft	Ceiling	<+> 153.5	215.4	62.6
TOOL & DIE 1-N	116x32x20Ft	Ceiling	<+> 71.6	99.7	29.3
TOOL & DIE 2	97x66x20Ft	Ceiling	<+> 146.6	228.6	29.9
TOOL & DIE 2-N	97x66x20Ft	Ceiling	<+> 67.8	106.3	13.4
TOOL & DIE 3	116x44x20Ft	Ceiling	<+> 131.3	216.6	53.2
TOOL & DIE 3-N	116x44x20Ft	Ceiling	<+> 60.4	99.9	24.6
TOOL & DIE STO	18x38x8Ft	Ceiling	<+> 61.3	139.5	10.3
TOOL DIE STO-N	18x38x8Ft	Ceiling	<+> 38.2	82.0	6.7
TOOL & DIE OFC	18x20x8Ft	Ceiling	<+> 124.1	186.2	56.4
TOOL DIE OFC-N	18x20x8Ft	Ceiling	<+> 51.1	68.2	28.8
TOOL ROOM	48x60x12Ft	Ceiling	<+> 26.9	48.9	7.2
TOOL ROOM-N	48x60x12Ft	Ceiling	<+> 32.2	48.5	9.2
TOOL HALLWAY	72x6x12Ft	Ceiling	<+> 28.3	51.6	8.7
TOOL HALLWAY-N	72x6x12Ft	Ceiling	<+> 13.8	24.5	4.4

BGU WORK AREA	17x26x12Ft	Ceiling	<+>	41.8	53.9	22.3
BGU WORK AREA-N	17x26x12Ft	Ceiling	<+>	37.5	48.9	21.6
BGU BREAK ROOM	13x12x8Ft	Ceiling	<+>	86.7	157.5	32.0
BGU BRK ROOM-N	13x12x8Ft	Ceiling	<+>	25.7	42.3	11.7
BGU OFFICE 1	12x12x12Ft	Ceiling	<+>	48.9	61.8	29.3
BGU OFFICE 1-N	12x12x12Ft	Ceiling	<+>	54.2	63.9	42.5
BGU OFFICE 2	12x16x12Ft	Ceiling	<+>	78.1	91.6	59.7
BGU OFFICE 2-N	12x16x12Ft	Ceiling	<+>	55.5	68.0	35.9
BGU ENTRANCE	12x8x12Ft	Ceiling	<+>	32.8	42.2	24.4
BGU ENTRANCE-N	12x8x12Ft	Ceiling	<+>	17.6	22.3	13.3
BGU KITCHEN	36x6x8Ft	Ceiling	<+>	29.9	49.7	8.1
BGU KITCHEN-N	36x6x8Ft	Ceiling	<+>	16.5	32.8	2.9
SHEET METAL	80x71x20Ft	Ceiling	<+>	22.4	83.8	0.0
SHEET METAL-N	80x71x20Ft	Ceiling	<+>	14.7	40.6	0.0
STORAGE CRIB	87x48x20Ft	Ceiling	<+>	20.6	34.9	1.5
STORAGE CRIB-N	87x48x20Ft	Ceiling	<+>	24.4	40.9	1.7

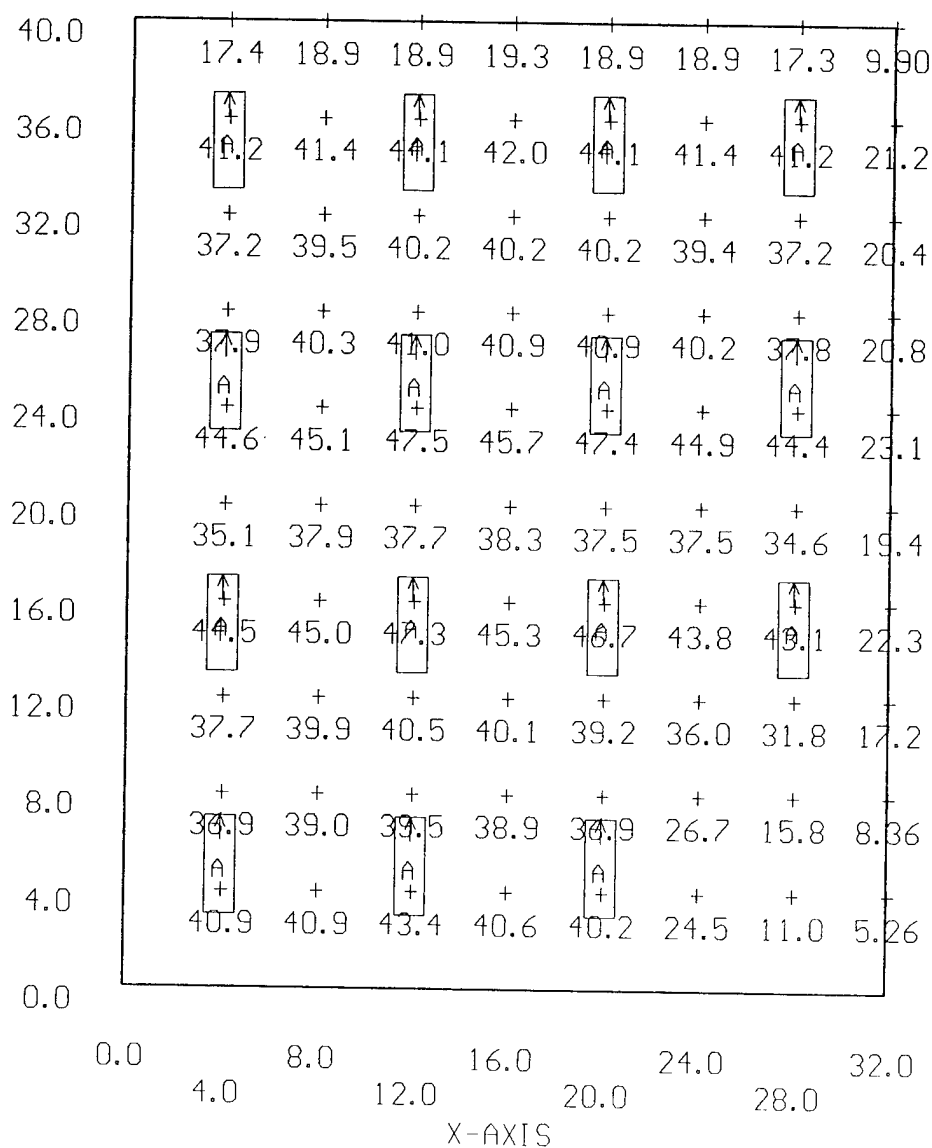
NOTES:

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 12:56 20-Dec-94
 PROJECT: 34-910 AREA: CHANGE ROOM 2 GRID: Ch. Rm. 2
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=5.26 MAX=47.5 AVE=34.7 AVE/MIN= 6.61 MAX/MIN= 9.04

A <15> = K9604 COLUMBIA WCW240-A, (2) F40CW, LLF= 0.63

Y-AXIS

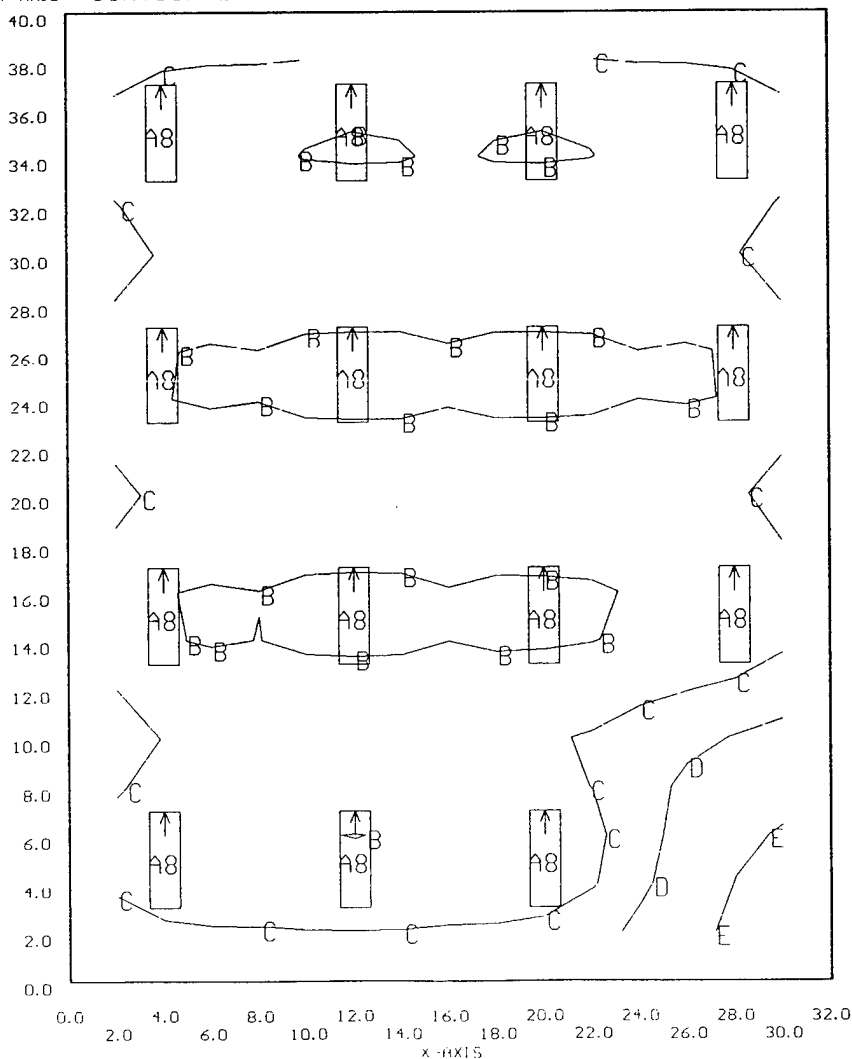


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 15:52 15-Mar-95
 PROJECT: 34-910 AREA: CHANGE ROOM 2-N GRID: Ch. Rm. 2
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=7.33 MAX=42.4 AVE=34.0 AVE/MIN= 4.63 MAX/MIN= 5.78

A8 <15> = K9604 COLUMBIA WCW240-A, (2) F032/35K, LLF= 0.66

Y-AXIS CONTOUR LEVELS: A= 50.0 B= 40.0 C= 30.0 D= 20.0 E= 10.0

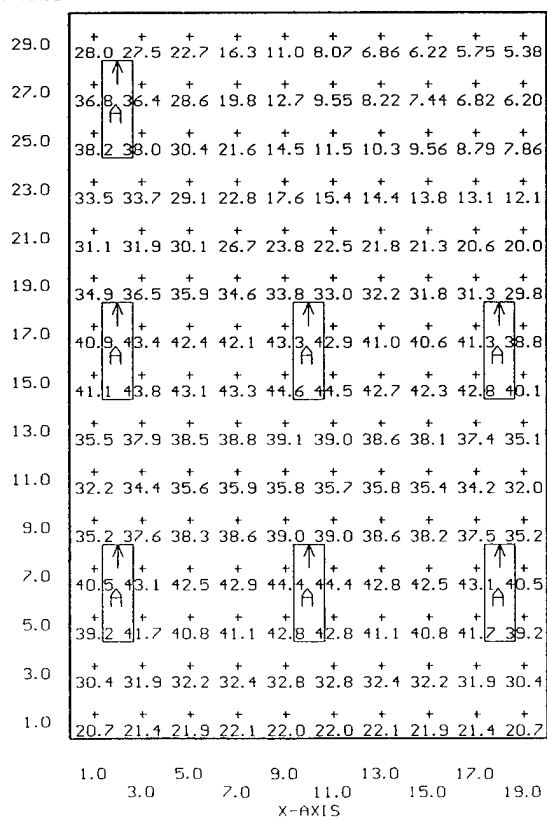


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 17:45 20-Dec-94
 PROJECT: 34-910 AREA: CHANGE ROOM 1 GRID: Ceiling
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=5.38 MAX=44.6 AVE=30.7 AVE/MIN= 5.71 MAX/MIN= 8.30

A <7> = K9604 COLUMBIA WCW240-A, <2> F40CW, LLF= 0.68

Y-AXIS

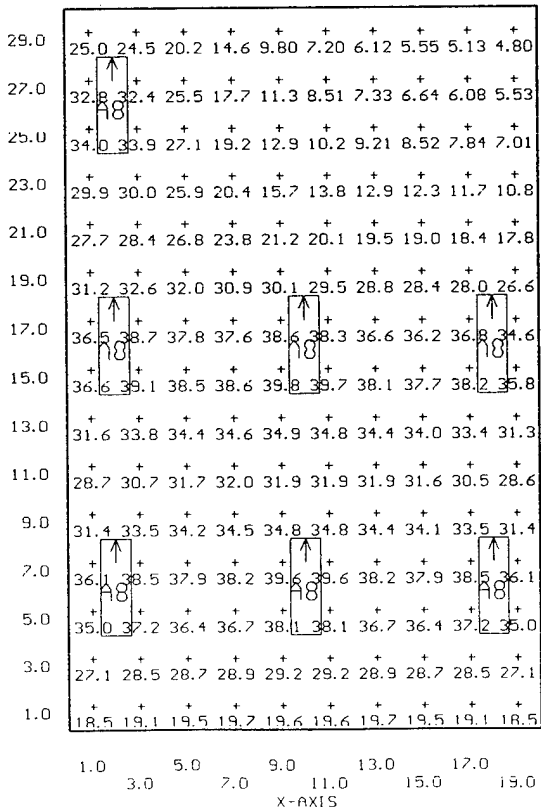


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 17:21 15-Mar-95
 PROJECT: 34-910 AREA: CHANGE ROOM 1-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=4.80 MAX=39.8 AVE=27.4 AVE/MIN= 5.71 MAX/MIN= 8.30

A8 <7> = K9604 COLUMBIA WCW240-A, (2) F032/35K, LLF= 0.66

Y-AXIS

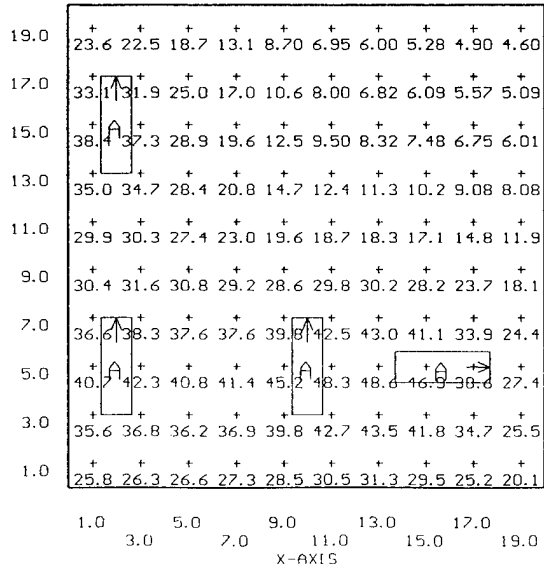


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 09:48 21-Dec-94
 PROJECT: 34-910 AREA: TOILET #1 GRID: Toilet 2
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=4.60 MAX=48.6 AVE=25.5 AVE/MIN= 5.55 MAX/MIN= 10.57

A <4> = K9604 COLUMBIA WCW240-A, <2> F40CW, LLF= 0.68

Y-AXIS



USI's LITE*PRO V2.27E Point-By-Point Numeric Output: 17:26 15-Mar-95
 PROJECT: 34-910 AREA: TOILET #1-N GRID: Toilet 2
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=4.10 MAX=43.4 AVE=22.8 AVE/MIN= 5.55 MAX/MIN= 10.57

A8 <4> = K9604 COLUMBIA WCU240-A, <2> F032/35K, LLF= 0.66

Y-AXIS

19.0	21.0	20.0	16.7	11.7	7.76	6.20	5.35	4.71	4.37	4.10
17.0	29.5	28.5	22.3	15.2	9.47	7.13	6.08	5.43	4.97	4.54
15.0	34.2	33.3	25.8	17.5	11.1	8.48	7.42	6.67	6.02	5.36
13.0	31.2	30.9	25.4	18.6	13.1	11.1	10.0	9.13	8.10	7.21
11.0	26.6	27.1	24.4	20.5	17.5	16.7	16.3	15.3	13.2	10.6
9.0	27.1	28.2	27.5	26.0	25.5	26.6	26.9	25.2	21.1	16.2
7.0	32.6	34.2	33.5	33.5	35.5	37.9	38.3	36.7	30.2	21.8
5.0	36.3	37.7	36.4	36.9	40.3	43.1	43.1	41.8	34.4	24.4
3.0	31.8	32.8	32.3	32.9	35.5	38.1	38.8	37.2	30.9	22.8
1.0	23.0	23.5	23.8	24.3	25.4	27.2	27.9	26.3	22.4	17.9

1.0 3.0 5.0 7.0 9.0 11.0 13.0 15.0 17.0 19.0
 X-AXIS

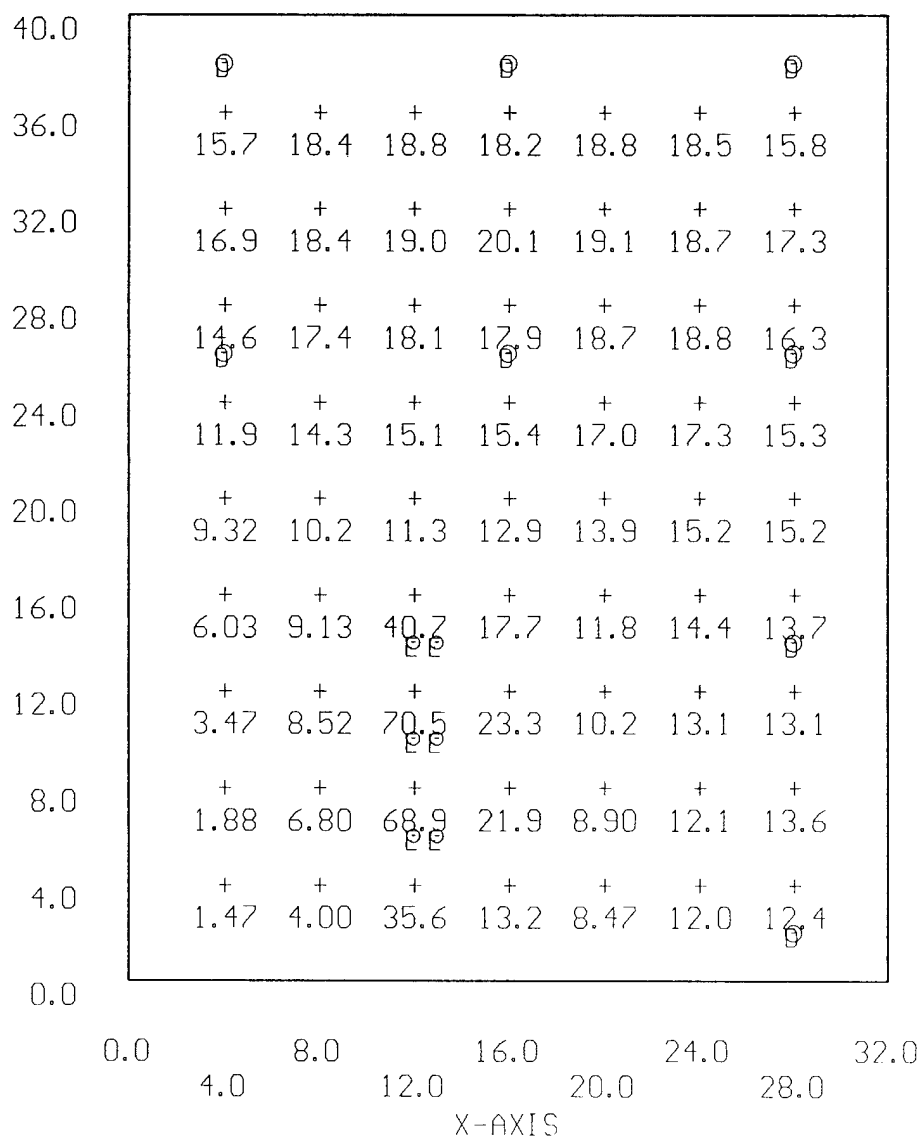
USI's LITE*PRO V2.27E Point-By-Point Numeric Output 12:57 20-Dec-94
 PROJECT: 34-910 AREA: PAINT SHOP GRID: Ceiling
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=1.47 MAX=70.5 AVE=16.6 AVE/MIN= 11.31 MAX/MIN= 48.02

D <8> = B1366C PRESCOLITE 1059-732, (1) 300M/IF, LLF= 0.68

E <6> = B1371C PRESCOLITE 1058-730, (1) 200A23/IF, LLF= 0.34

Y-AXIS

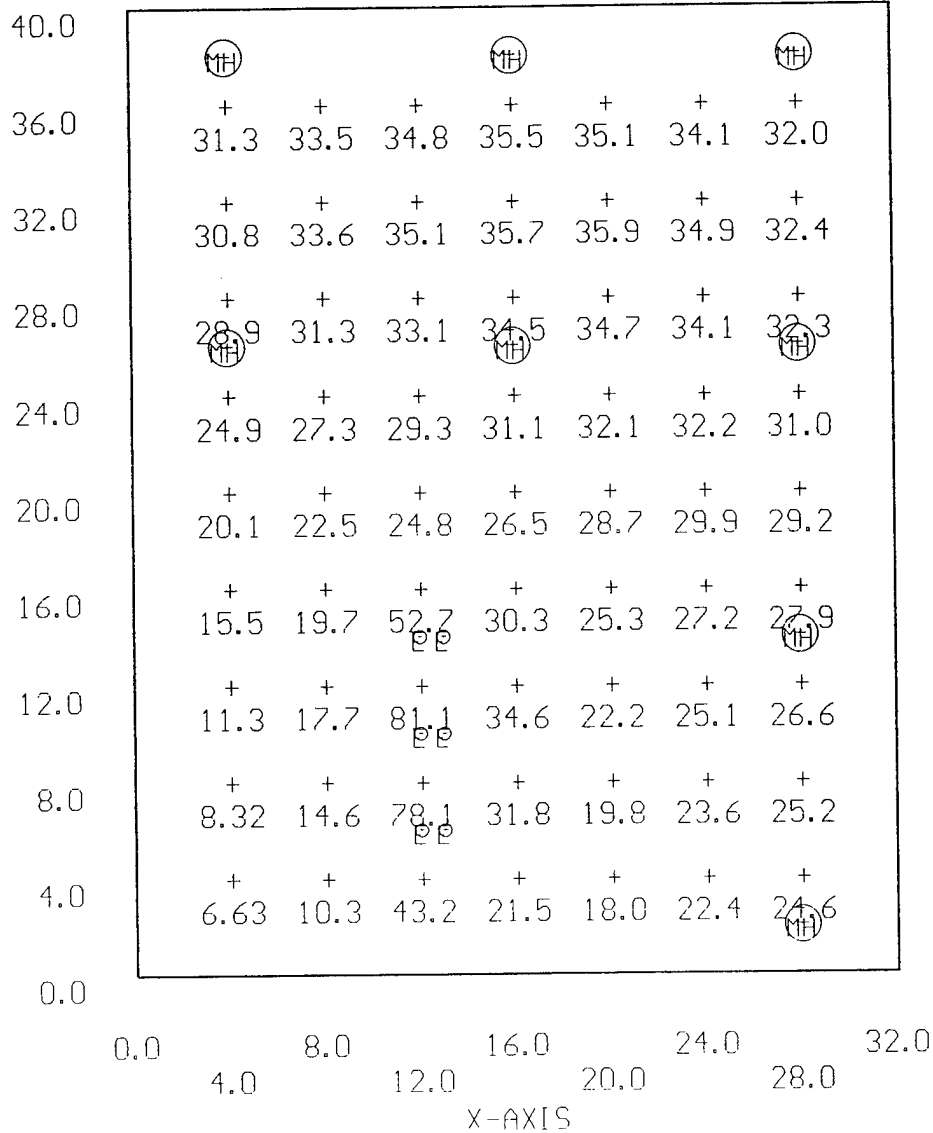


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:25 15-Mar-95
 PROJECT: 34-910 AREA: PAINT SHOP-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=6.63 MAX=81.1 AVE=29.5 AVE/MIN= 4.45 MAX/MIN= 12.23

E <6> = B1371C PRESCOLITE 1058-730, (1) 200A23/IF, LLF= 0.34
 MH <8> = GE7843 COLUMBIA SBI10M, (1) M-100, LLF= 0.80

Y-AXIS

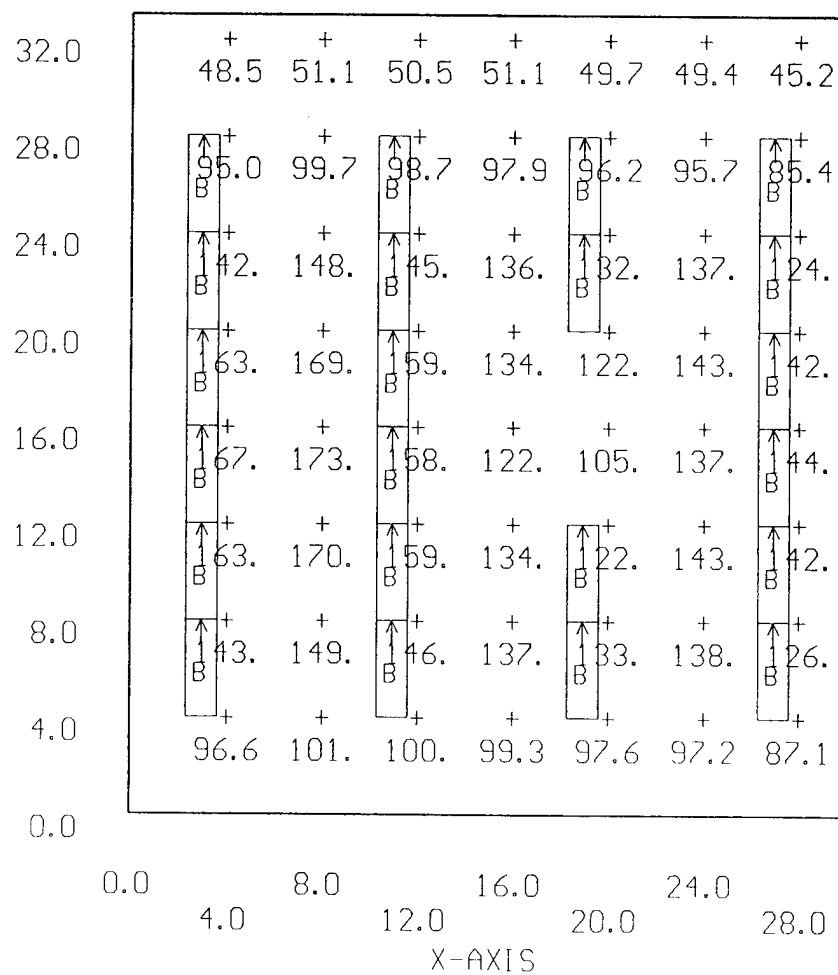


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 12:58 20-Dec-94
PROJECT: 34-910 AREA: SIGN SHOP GRID: Ceiling
Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
Computed in accordance with IES recommendations

+ MIN=45.2 MAX=173. AVE=120. AVE/MIN= 2.65 MAX/MIN= 3.83

B <22> = K9708 COLUMBIA WCW440-A, (4) F40CW, LLF= 0.63

Y-AXIS

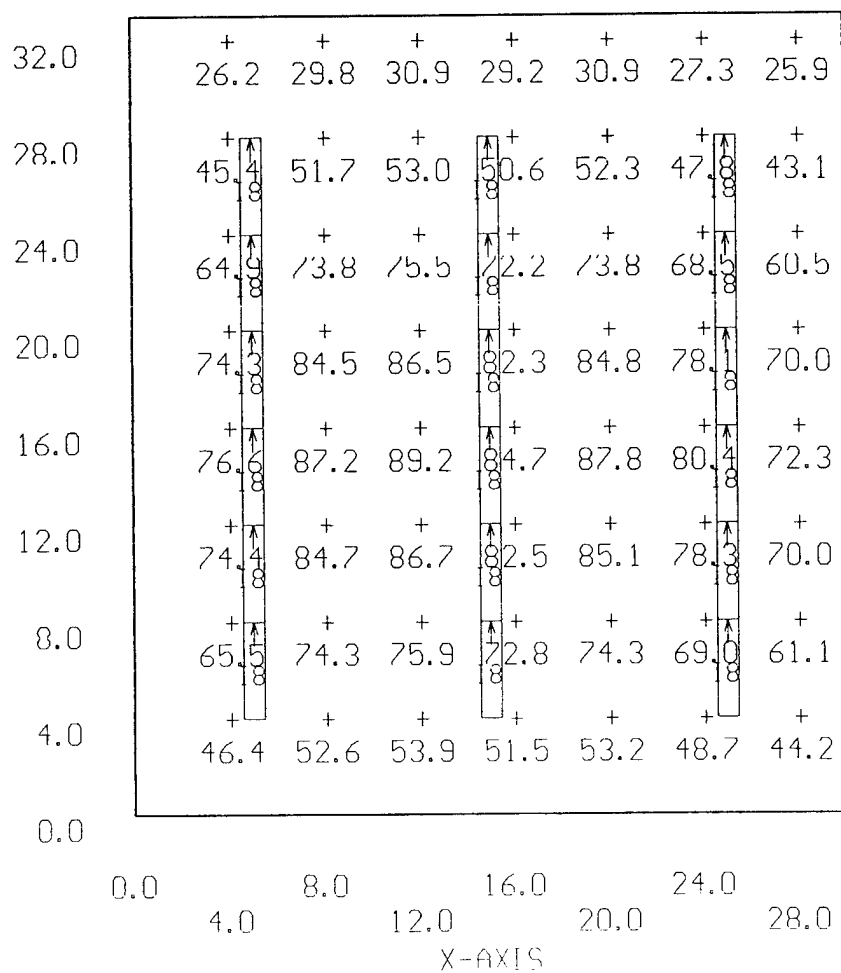


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:08 15-Mar-95
PROJECT: 34-910 AREA: SIGN SHOP-N GRID: Ceiling
Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
Computed in accordance with IES recommendations

+ MIN=25.9 MAX=89.2 AVE=63.9 AVE/MIN= 2.47 MAX/MIN= 3.44

I8 <18> = 10332 COLUMBIA CSR240-SPREF-EOCT, (2) F032/35K, LLF= 0.67

Y-AXIS

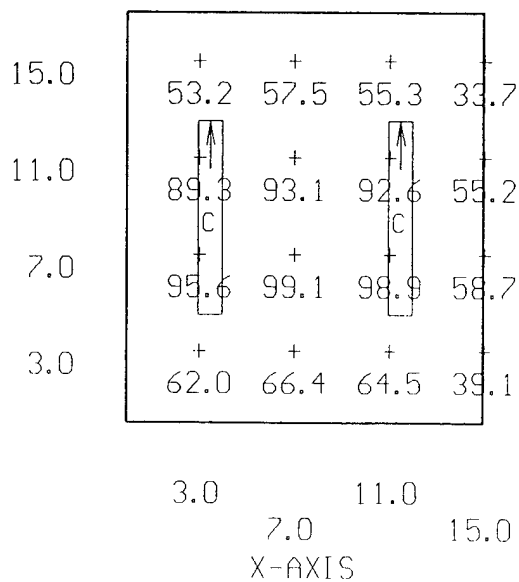


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 12:58 20-Dec-94
 PROJECT: 34-910 AREA: ENTOMOLOGY GRID: Ceiling
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=33.7 MAX=99.1 AVE=69.6 AVE/MIN= 2.06 MAX/MIN= 2.94

C <2> = K7983M COLUMBIA KP496, (4) F96T12/CW, LLF= 0.64

Y-AXIS

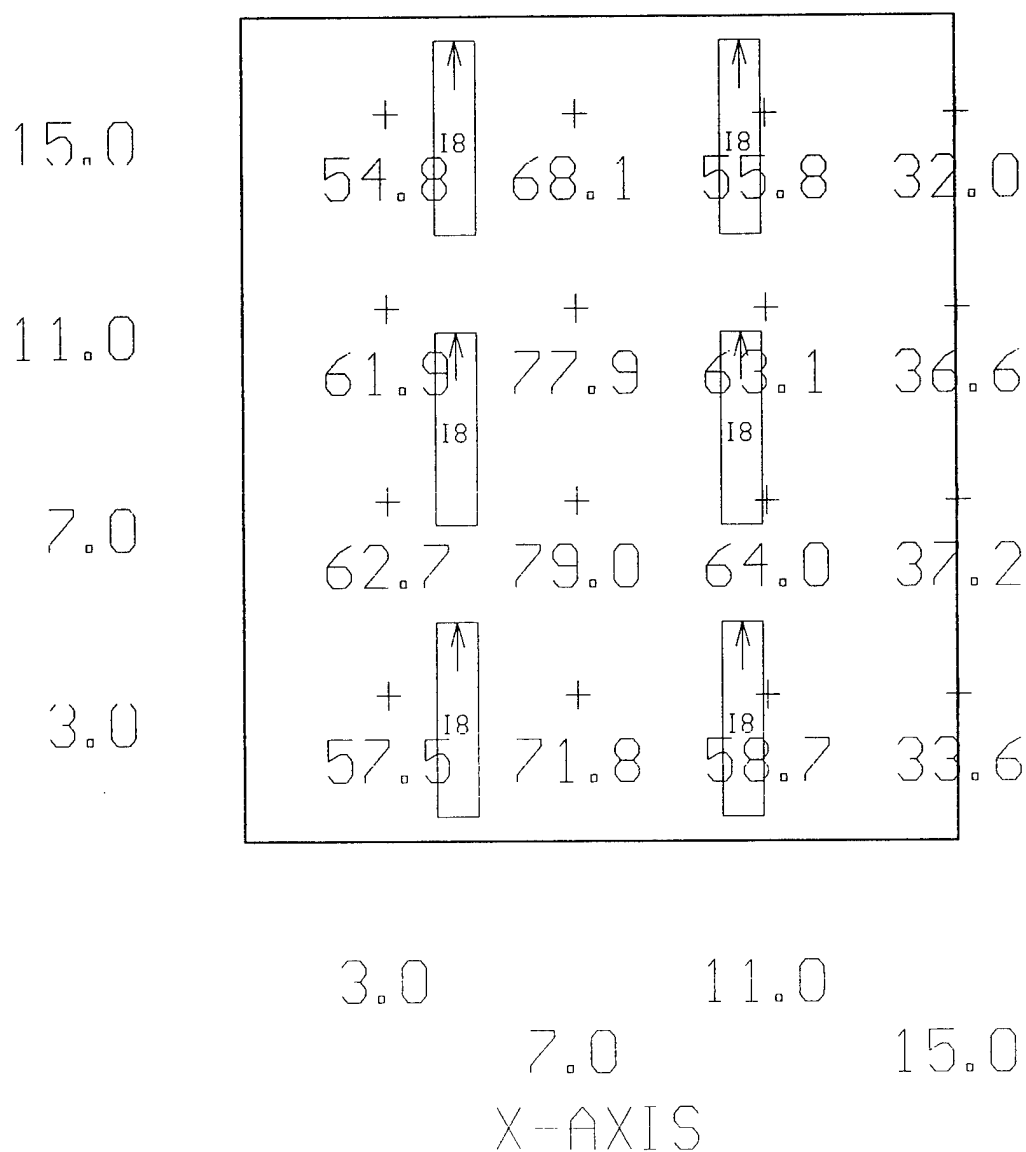


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:15 15-Mar-95
 PROJECT: 34-910 AREA: ENTOMOLOGY-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=32.0 MAX=79.0 AVE=57.2 AVE/MIN= 1.79 MAX/MIN= 2.47

I8 <6> = 10332 COLUMBIA CSR240-SPREF-EOCT, <2> F032/35K, LLF= 0.67

Y-AXIS

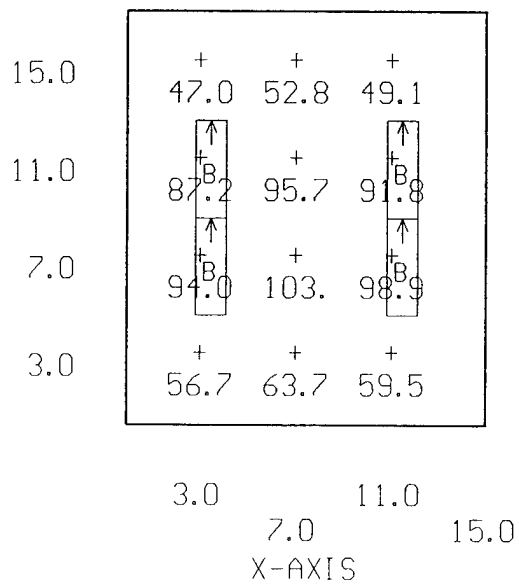


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 12:59 20-Dec-94
 PROJECT: 34-910 AREA: PAINT OFFICE GRID: Ceiling
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=47.0 MAX=103. AVE=74.9 AVE/MIN= 1.60 MAX/MIN= 2.19

B (4) = K9708 COLUMBIA WCW440-A, (4) F40CW, LLF= 0.63

Y-AXIS

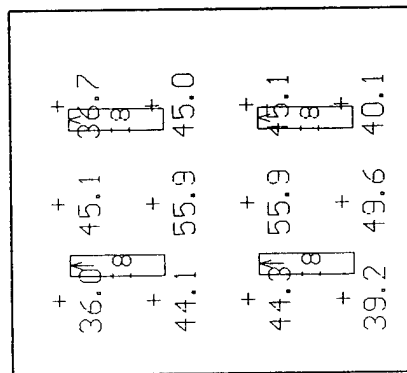


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:28 15-Mar-95
 PROJECT: 34-910 AREA: PAINT OFFICE-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=36.0 MAX=55.9 AVE=44.7 AVE/MIN= 1.24 MAX/MIN= 1.55

I8 <4> = 10332 COLUMBIA CSR240-SPREF-EOCT, <2> F032/35K, LLF= 0.67

Y-AXIS



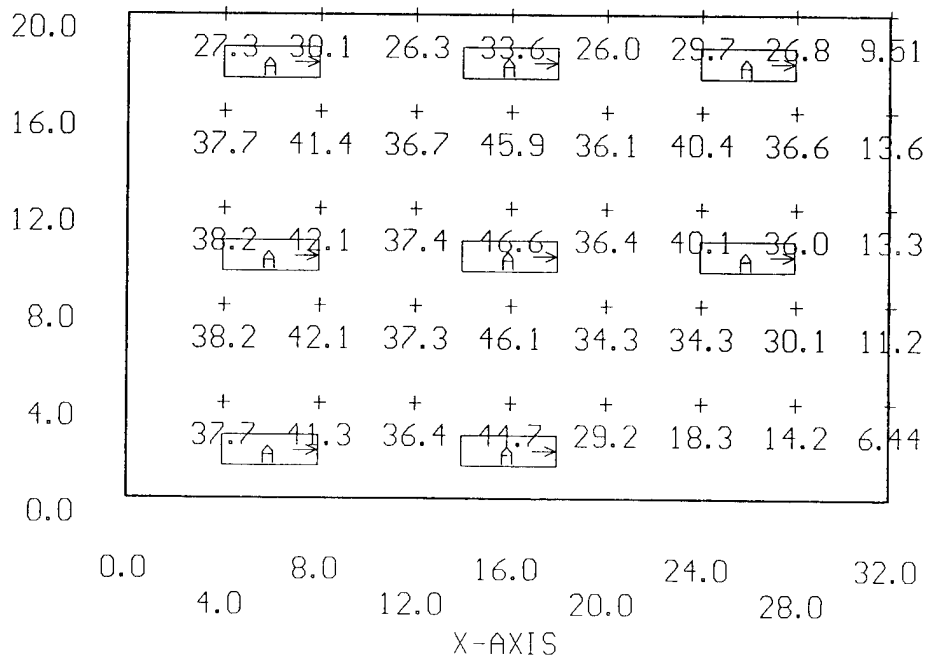
3.0 11.0 15.0
 7.0
 X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 12:59 20-Dec-94
PROJECT: 34-910 AREA: TOILET #2 GRID: Toilet 2
Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
Computed in accordance with IES recommendations

+ MIN=6.44 MAX=46.6 AVE=32.2 AVE/MIN= 5.01 MAX/MIN= 7.23

A (8) = K9604 COLUMBIA WCW240-A, (2) F40CW, LLF = 0.63

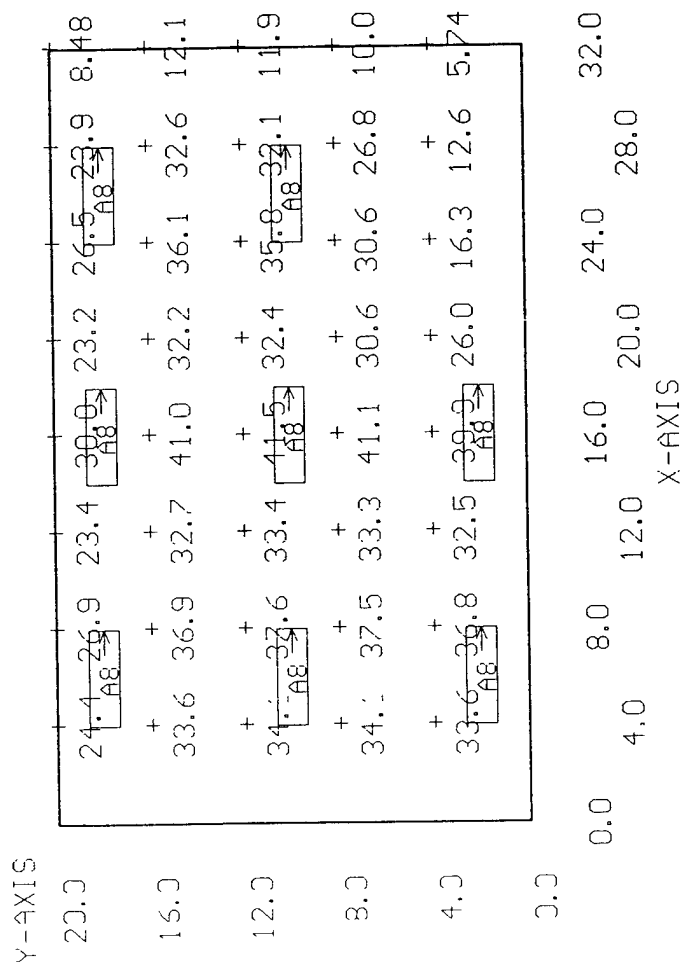
Y-AXIS



US1's LITE*PRO V2.27E Point-By-Point Numeric Output 15:55 15-Mar-95
 PROJECT: 34-910 AREA: TOILET #2-N GRID: Toilet 2
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=5.74 MAX=41.5 AVE=28.8 AVE/MIN= 5.01 MAX/MIN= 7.23

A8 <8> = K9604 COLUMBIA WCW240-A, (2) F032/35K, LLF= 0.66

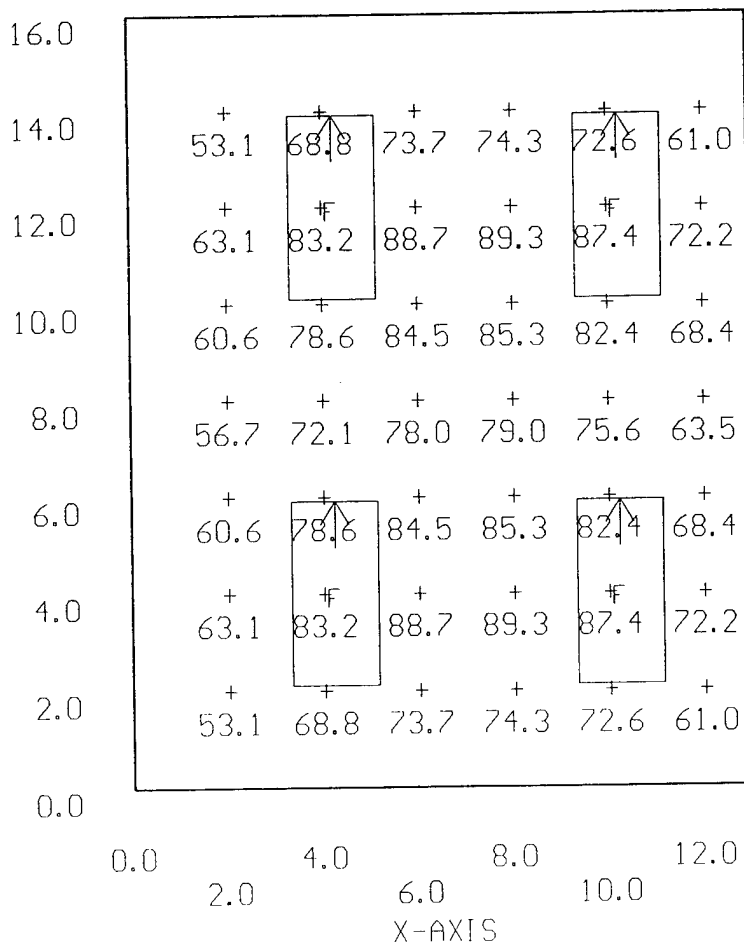


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 12:26 20-Dec-94
 PROJECT: 34-910 AREA: PM CONFERENCE GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=53.1 MAX=89.3 AVE=74.3 AVE/MIN= 1.40 MAX/MIN= 1.68

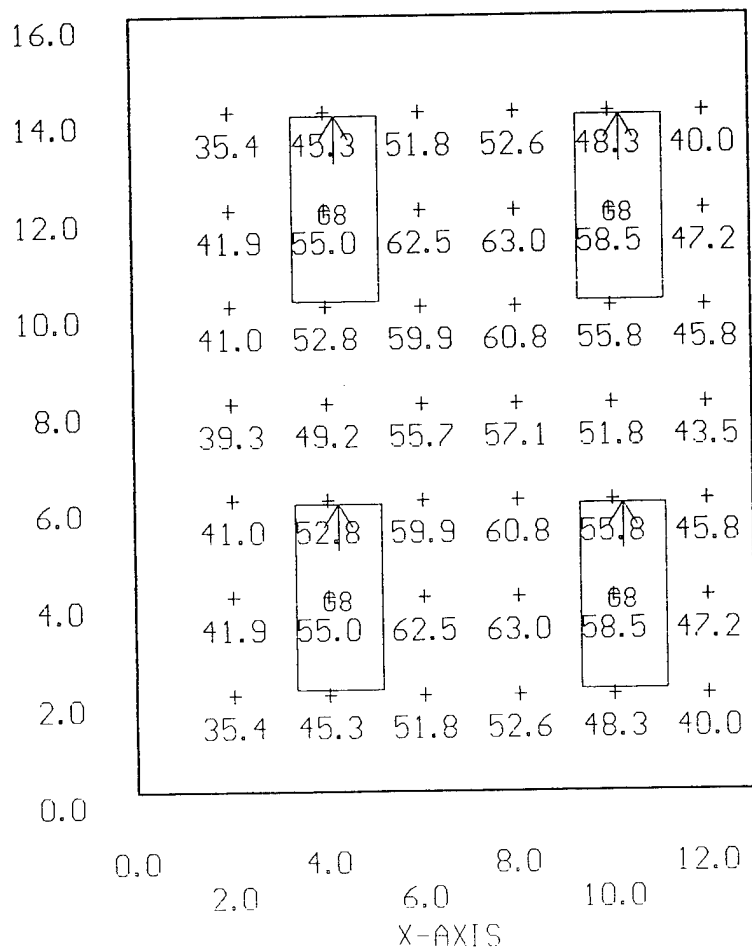
F <4> = 9753 COLUMBIA 4PS2*-87-244, <4> F40CW, LLF= 0.68

Y-AXIS



G8 <4> = 9868 COLUMBIA T84PS2*-84-242-2EOCT, (2) F032/31K, LLF= 0.61

16.0

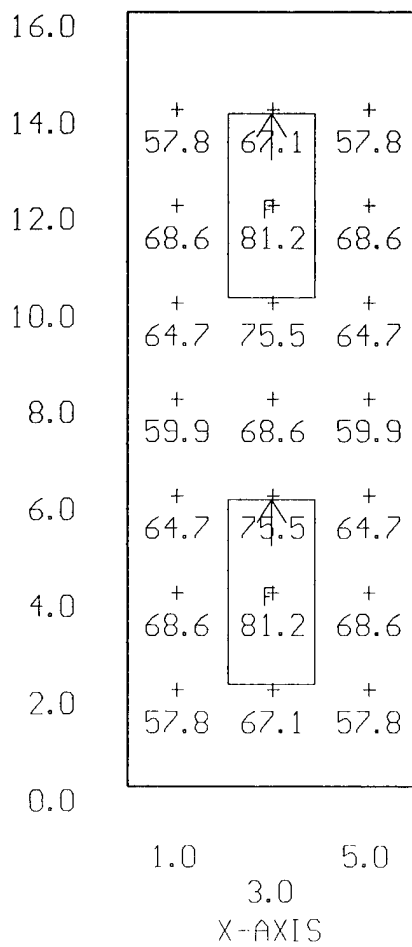


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 13:12 20-Dec-94
 PROJECT: 34-910 AREA: PM HALL GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=57.8 MAX=81.2 AVE=66.7 AVE/MIN= 1.15 MAX/MIN= 1.41

F <2> = 9753 COLUMBIA 4PS2*-87-244, (4) F40CW, LLF= 0.63

Y-AXIS

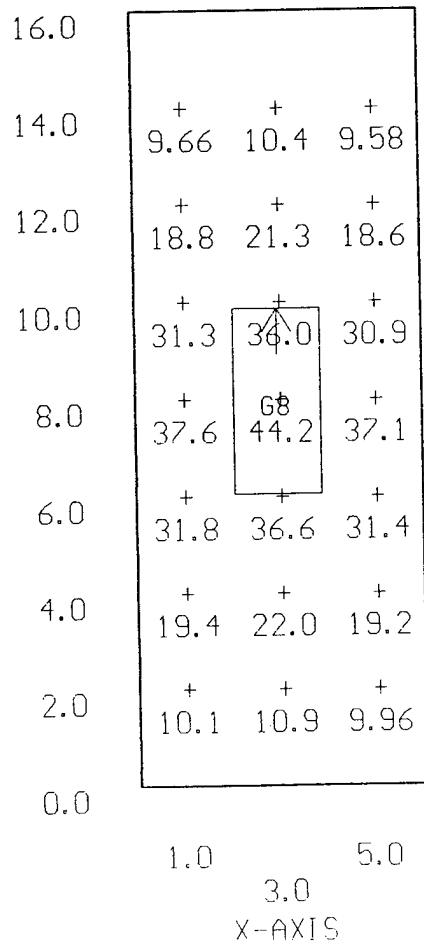


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:42 15-Mar-95
 PROJECT: 34-910 AREA: PM HALL-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=9.58 MAX=44.2 AVE=23.7 AVE/MIN= 2.47 MAX/MIN= 4.61

G8 <1> = 9868 COLUMBIA T84PS2*-84-242-2EOCT, <2> F032/31K, LLF= 0.61

Y-AXIS

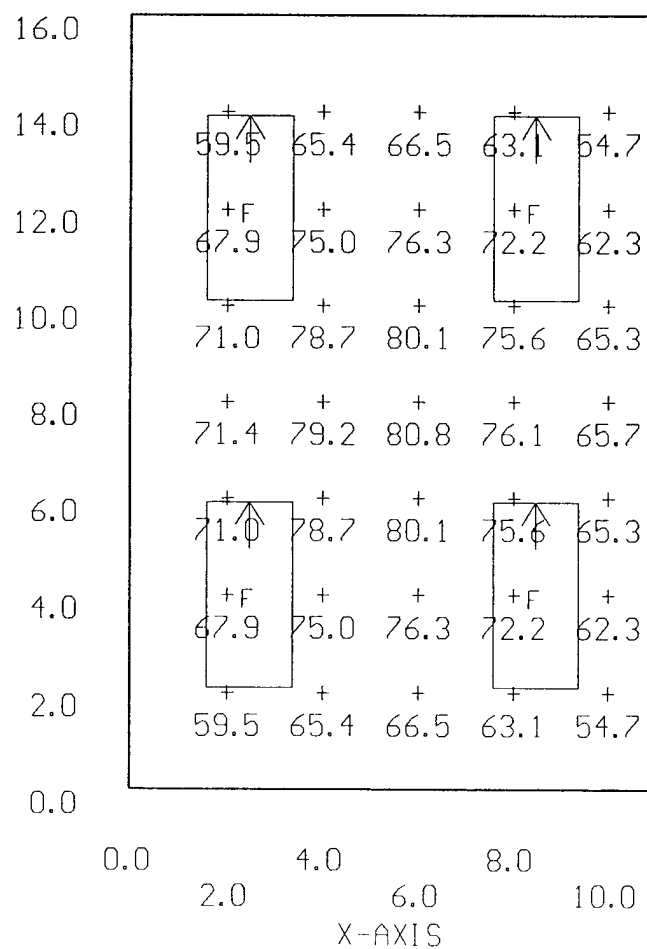


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 13:20 20-Dec-94
 PROJECT: 34-910 AREA: PM OFFICE 1 GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 0.0
 Computed in accordance with IES recommendations

+ MIN=54.7 MAX=80.8 AVE=69.7 AVE/MIN= 1.27 MAX/MIN= 1.48

F (4) = 9753 COLUMBIA 4PS2*-87-244, (4) F40CW, LLF= 0.63

Y-AXIS



+ MIN=34.5 MAX=51.7 AVE=44.5 AVE/MIN= 1.29 MAX/MIN= 1.50

G8 <4> = 9868 COLUMBIA T84PS2*-84-242-2E0CT, (2) F032/31K, LLF= 0.61

Figure 1 is a line graph showing the variation of the ratio of the maximum to the minimum value of the function $f(x)$ versus the parameter x . The x-axis is labeled 'X-AXIS' and ranges from 0.0 to 10.0. The y-axis ranges from 0.0 to 16.0. There are two data series plotted: a solid line and a dashed line. Both series show a sharp increase in the ratio as x increases. The solid line starts at approximately 3.78 at $x=0.0$ and reaches approximately 14.0 at $x=10.0$. The dashed line starts at approximately 3.45 at $x=0.0$ and reaches approximately 14.0 at $x=10.0$. Both curves are labeled with 'G8' and 'G1'.

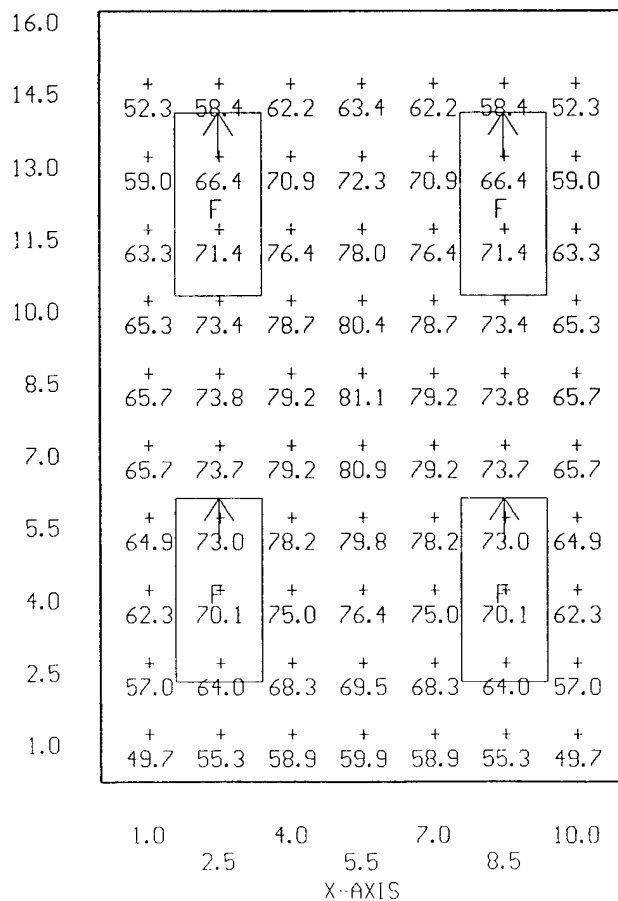
x	Solid Line (G8)	Dashed Line (G1)
0.0	3.78	3.45
1.2	41.2	41.6
2.0	43.6	46.2
3.0	47.7	48.3
4.0	50.6	51.3
5.0	51.3	48.7
6.0	51.7	49.0
7.0	51.3	41.6
8.0	49.0	41.6
9.0	41.6	41.6
10.0	14.0	14.0

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 13:24 20-Dec-94
PROJECT: 34-910 AREA: PM OFFICE 2 GRID: Ceiling
Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 0.0
Computed in accordance with IES recommendations

+ MIN=49.7 MAX=81.1 AVE=68.1 AVE/MIN= 1.37 MAX/MIN= 1.63

F (4) = 9753 COLUMBIA 4PS2*-87-244, (4) F40CW, LLF= 0.68

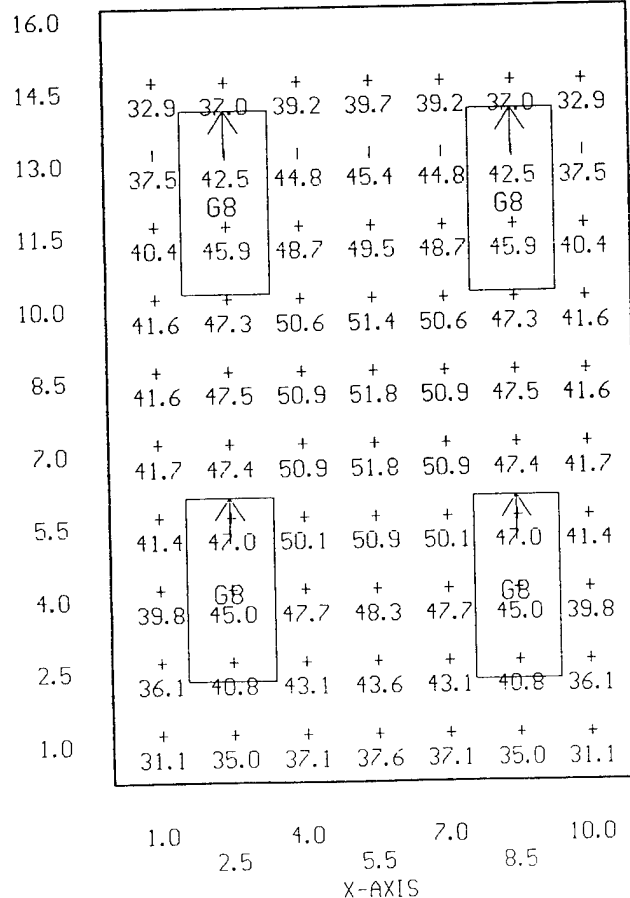
Y-AXIS



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:50 15-Mar-95
PROJECT: 34-910 AREA: PM OFFICE 2-N GRID: Ceiling
Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 0.0
Computed in accordance with IES recommendations

+ MIN=31.1 MAX=51.8 AVE=43.4 AVE/MIN= 1.39 MAX/MIN= 1.67

G8 <4> = 9868 COLUMBIA T84PS2*-84-242-2EOCT, (2) F032/31K, LLF= 0.61

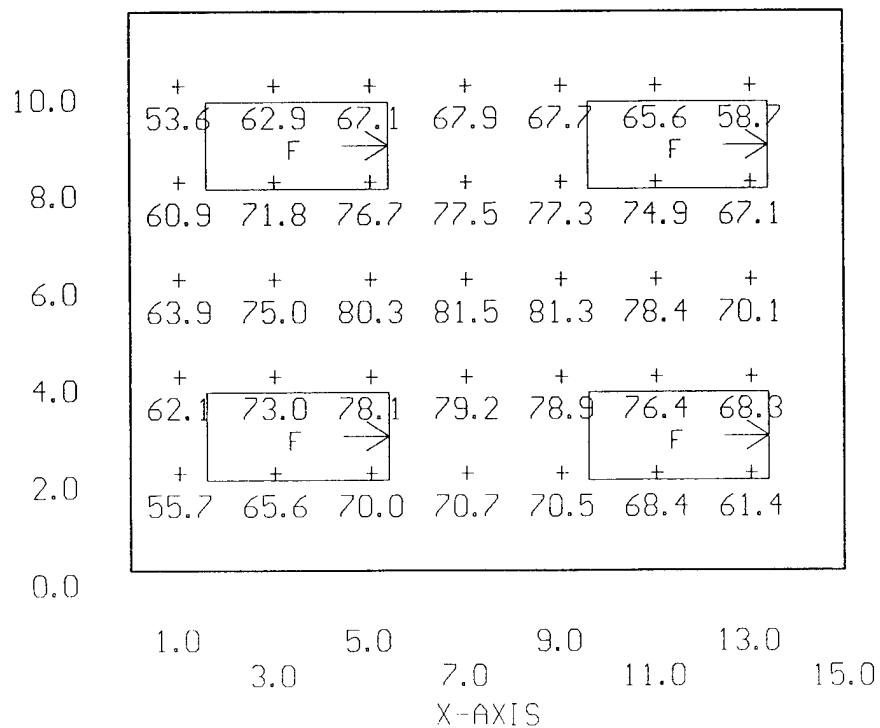


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 13:33 20-Dec-94
PROJECT: 34-910 AREA: PM OFFICE 3 GRID: Ceiling
Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 0.0
Computed in accordance with IES recommendations

+ MIN=53.6 MAX=81.5 AVE=70.2 AVE/MIN= 1.31 MAX/MIN= 1.52

F (4) = 9753 COLUMBIA 4PS2*-87-244, (4) F40CW, LLF= 0.68

Y-AXIS

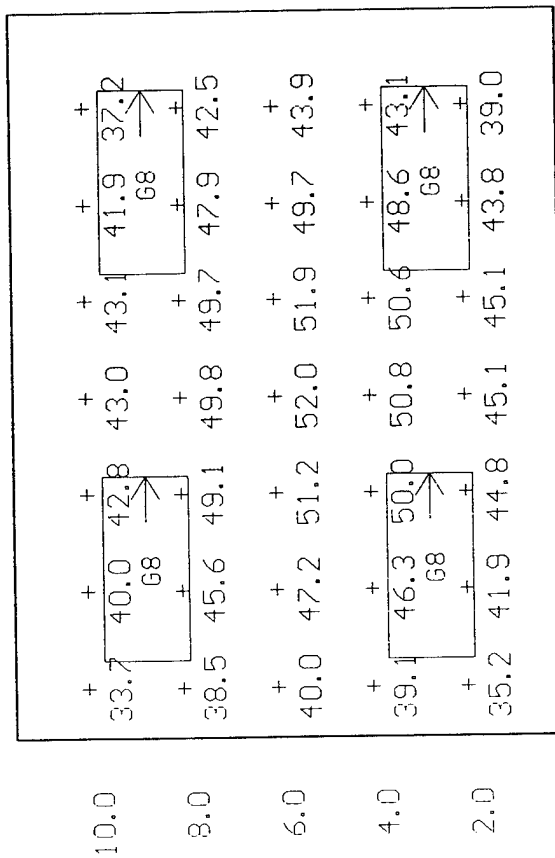


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:52 15-Mar-95
 PROJEC: 34-910 AREA: PM OFFICE 3-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HCRZ GRID (U), HCRZ CALC, Z= 0.0
 Computed in accordance with IES recommendations

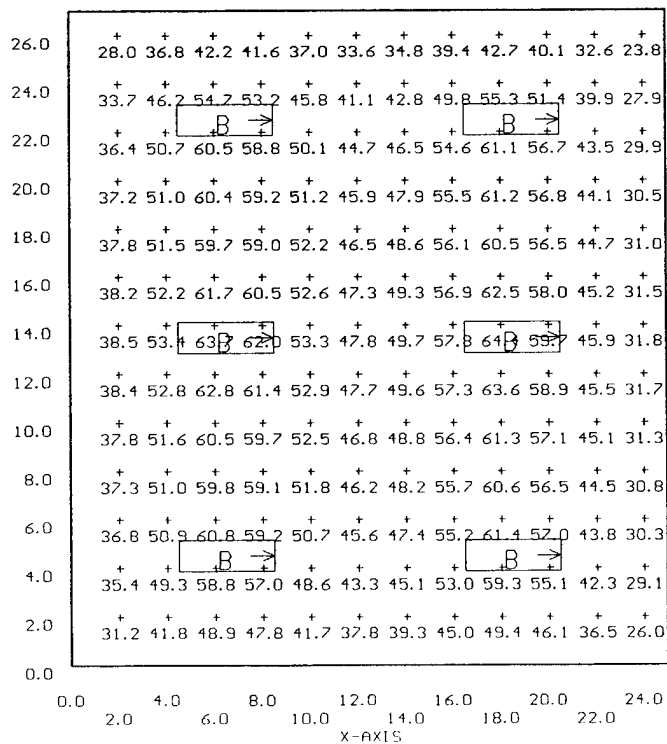
+ MIN=33.7 MAX=52.0 AVE=44.7 AVE/MIN= 1.33 MAX/MIN= 1.54

G8 <4> = 9868 COLUMBIA T84PS2*-84-242-2EJCT, <2> F032/31K, L_F= 0.61

Y-AXIS



1.0 3.0 5.0 7.0 9.0 11.0 13.0 15.0
 X-AXIS

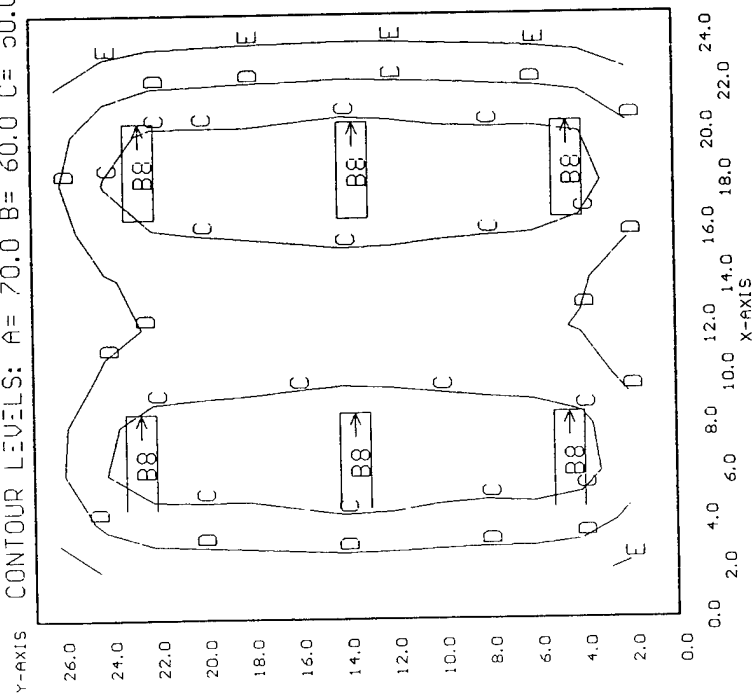


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:57 15-Mar-95
 PROJECT: 34-910 AREA: W0 CENTRAL-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=21.7 MAX=58.7 AVE=43.9 AVE/MIN= 2.02 MAX/MIN= 2.70

B8 <6> = K9708 COLUMBIA WCM440-A, (4) F032/35K, LLF= 0.67

CONTOUR LEVELS: A= 70.0 B= 60.0 C= 50.0 D= 40.0 E= 30.0

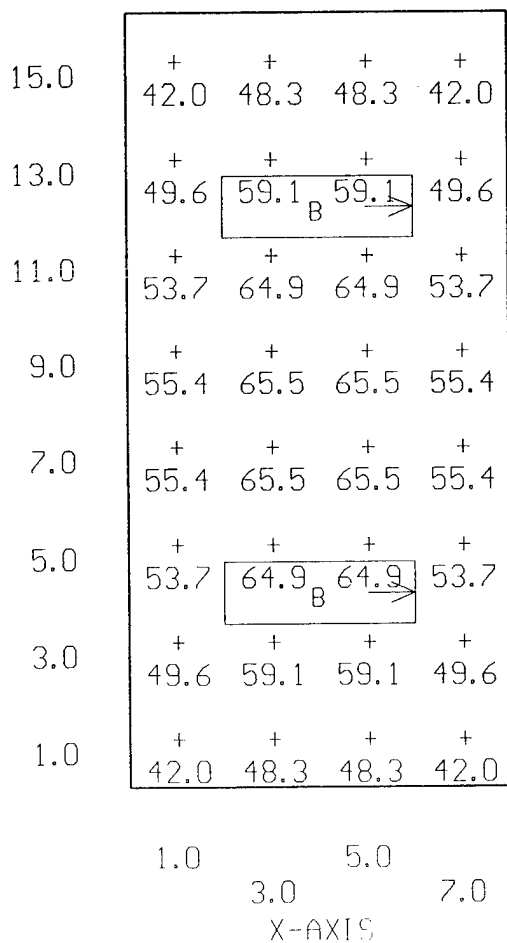


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 13:58 20-Dec-94
 PROJECT: 34-910 AREA: W0 CENTRAL ADD GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=42.0 MAX=65.5 AVE=54.8 AVE/MIN= 1.31 MAX/MIN= 1.56

B <2> = K9708 COLUMBIA WCW440-A, <4> F40CW, LLF= 0.68

Y-AXIS

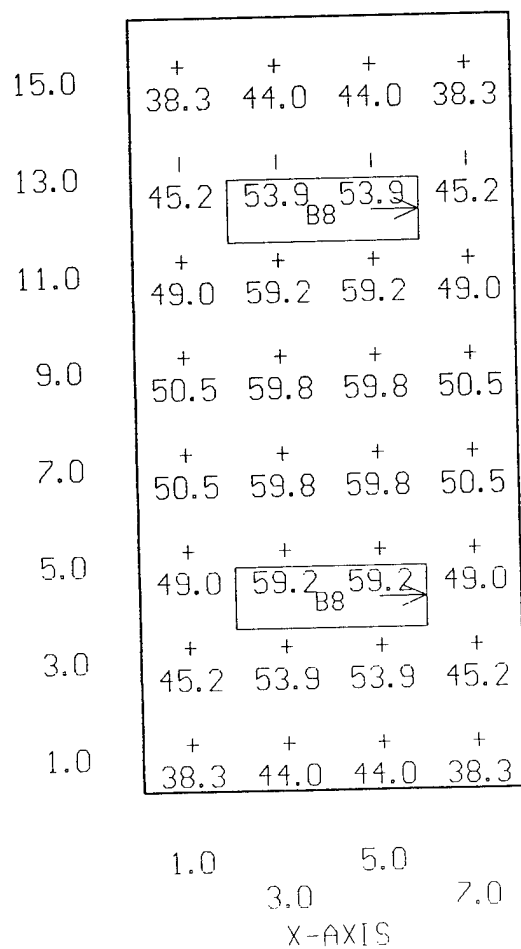


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:59 15-Mar-95
 PROJECT: 34-910 AREA: WO CNTRAL ADD-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=38.3 MAX=59.8 AVE=50.0 AVE/MIN= 1.31 MAX/MIN= 1.56

B8 <2> = K9708 COLUMBIA WCW440-A, <4> F032/35K, LLF= 0.67

Y-AXIS

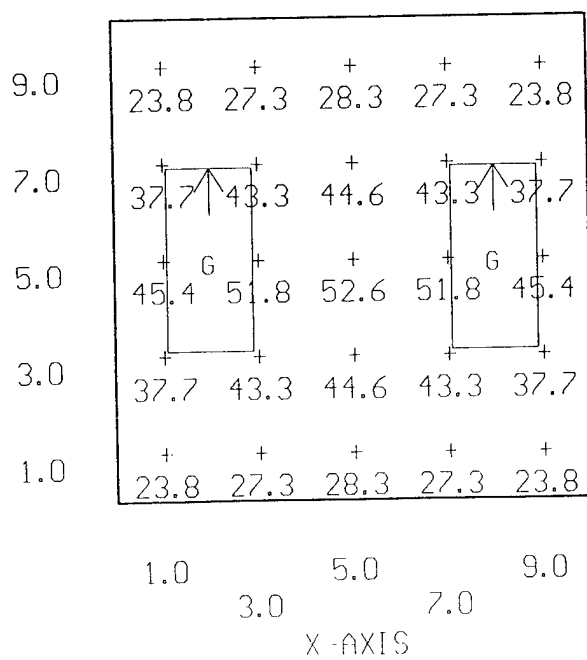


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:21 20-Dec-94
 PROJECT: 34-910 AREA: WO OFFICES 1&2 GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=23.8 MAX=52.6 AVE=36.9 AVE/MIN= 1.55 MAX/MIN= 2.21

G <4> = 9975 COLUMBIA 4PS2*-52-242, (2) F40CW, LLF= 0.68

Y-AXIS

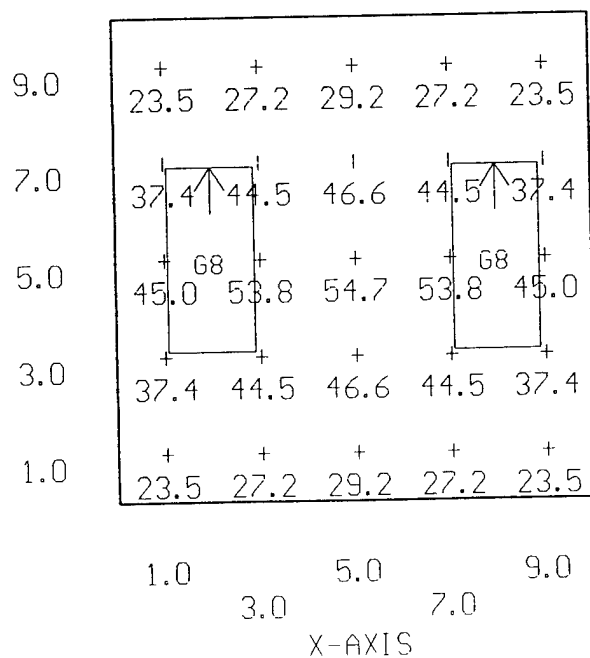


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 17:01 15-Mar-95
 PROJECT: 34-910 AREA: WO OFFCES 182-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=23.5 MAX=54.7 AVE=37.4 AVE/MIN= 1.59 MAX/MIN= 2.33

G8 <4> = 9868 COLUMBIA T84PS2*-84-242-2EOCT, (2) F032/31K, LLF= 0.61

Y-AXIS

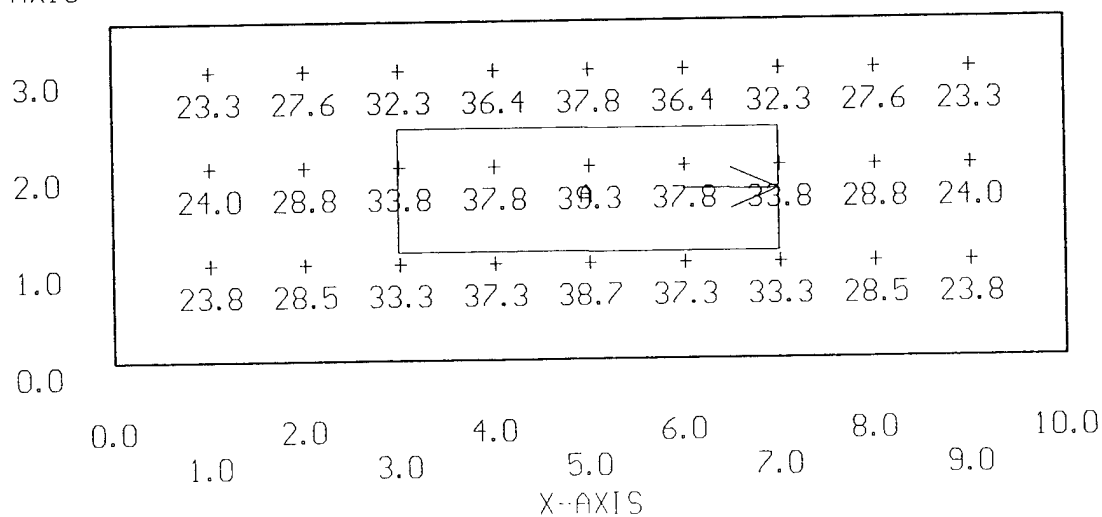


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:28 20-Dec-94
PROJECT: 34-910 AREA: WO HALL GRID: Ceiling
Values are FC, SCALE: 1 IN= 2.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
Computed in accordance with IES recommendations

+ MIN=23.3 MAX=39.3 AVE=31.5 AVE/MIN= 1.35 MAX/MIN= 1.69

A (1) = K9604 COLUMBIA WCW240-A, (2) F40CW, LLF= 0.68

Y-AXIS

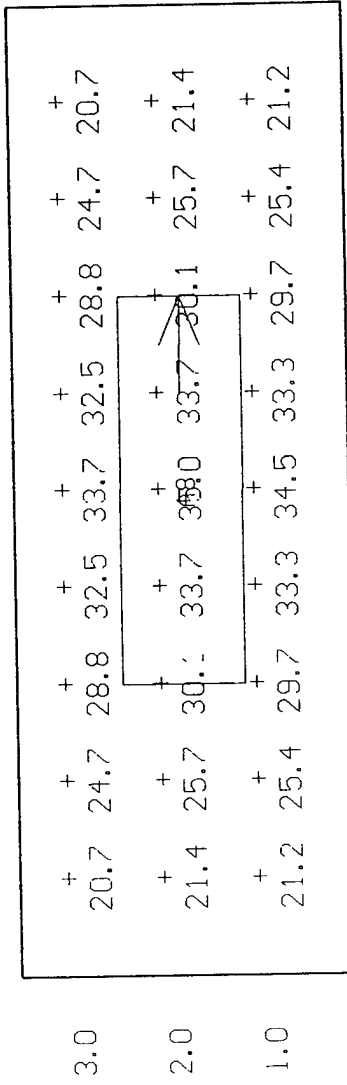


USI's LITE*PR0 V2.27E Point-By-Point Numeric Output 17:02 15-Mar-95
 PROJECT: 34-910 AREA: W0 HALL-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 2.0FT, HORZ GRID (U), HORZ CA-C, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=20.7 MAX=35.0 AVE=28.1 AVE/MIN= 1.35 MAX/MIN= 1.69

A8 <1> = K9604 COLUMBIA WCU240-A, <2> F032/35K, LLF= 0.66

Y-AXIS



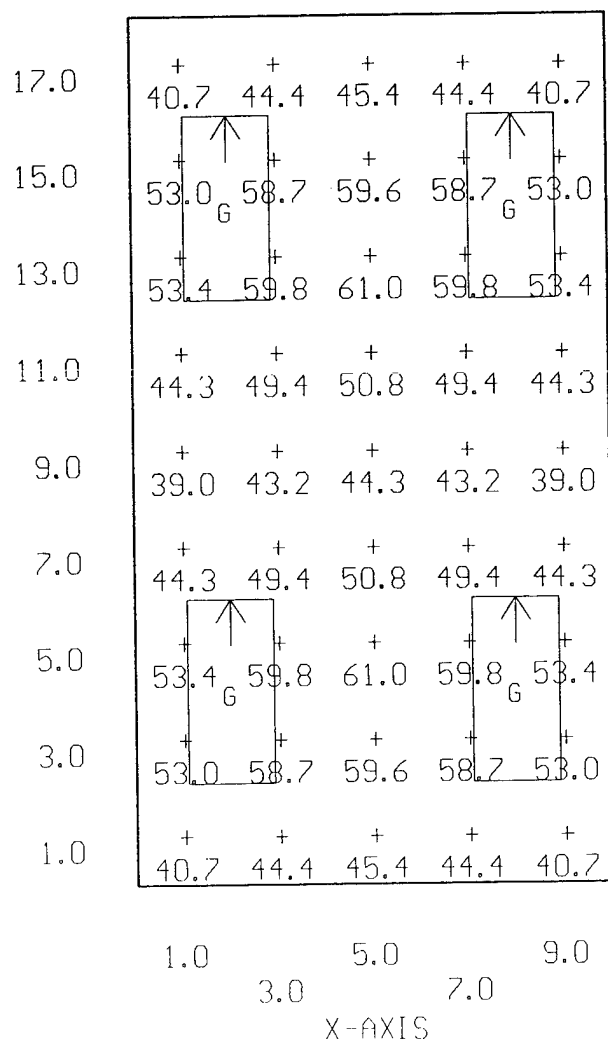
X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:37 20-Dec-94
 PROJECT: 34-910 AREA: WO OFFICE 3 GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=39.0 MAX=61.0 AVE=50.2 AVE/MIN= 1.29 MAX/MIN= 1.56

G <4> = 9975 COLUMBIA 4PS2*-52-242, (2) F40CW, LLF= 0.68

Y-AXIS

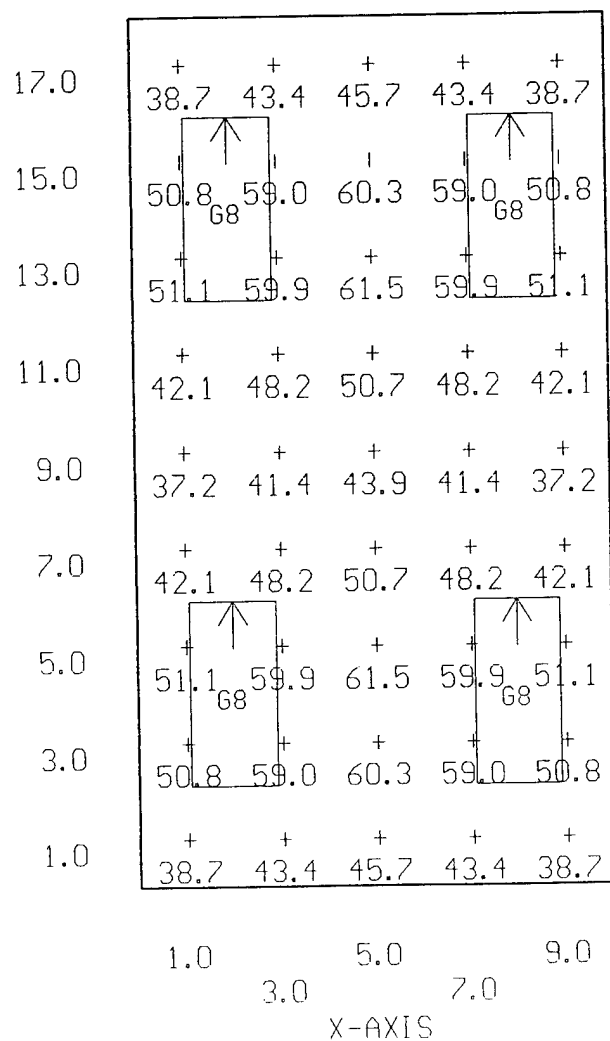


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 17:06 15-Mar-95
 PROJECT: 34-910 AREA: WO OFFICE 3-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=37.2 MAX=61.5 AVE=49.1 AVE/MIN= 1.32 MAX/MIN= 1.65

G8 <4> = 9868 COLUMBIA T84PS2*-84-242-2EOCT, (2) F032/31K, LLF= 0.61

Y-AXIS

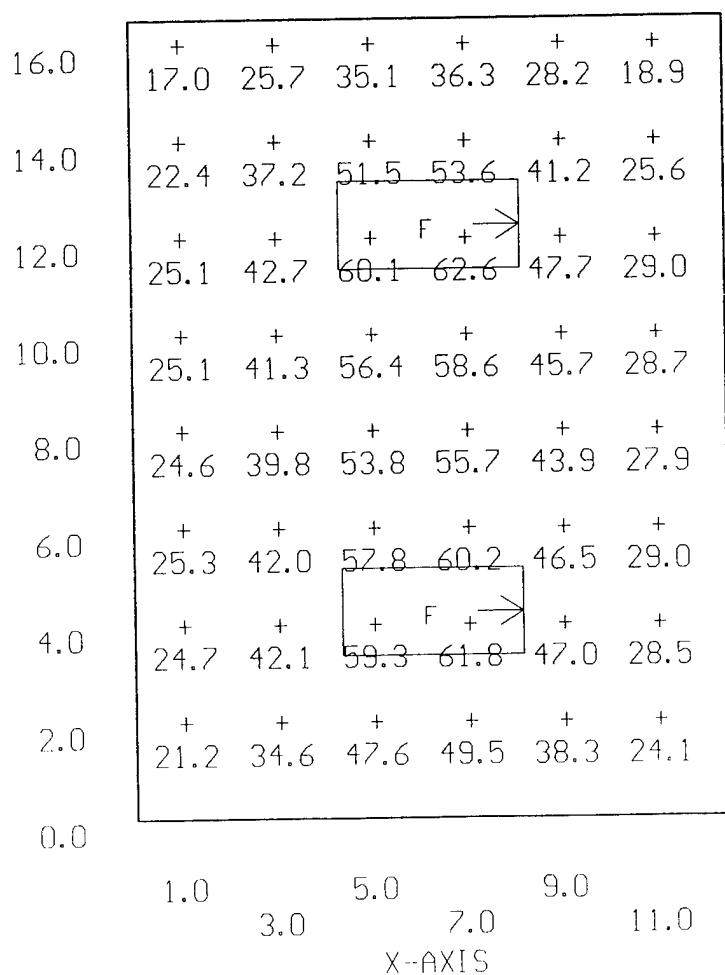


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:50 20-Dec-94
PROJECT: 34-910 AREA: WO COPY ROOM GRID: Ceiling
Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
Computed in accordance with IES recommendations

+ MIN=17.0 MAX=62.6 AVE=39.6 AVE/MIN= 2.33 MAX/MIN= 3.68

F (2) = 9753 COLUMBIA 4PS2*-87-244, (4) F40CW, LLF= 0.68

Y-AXIS

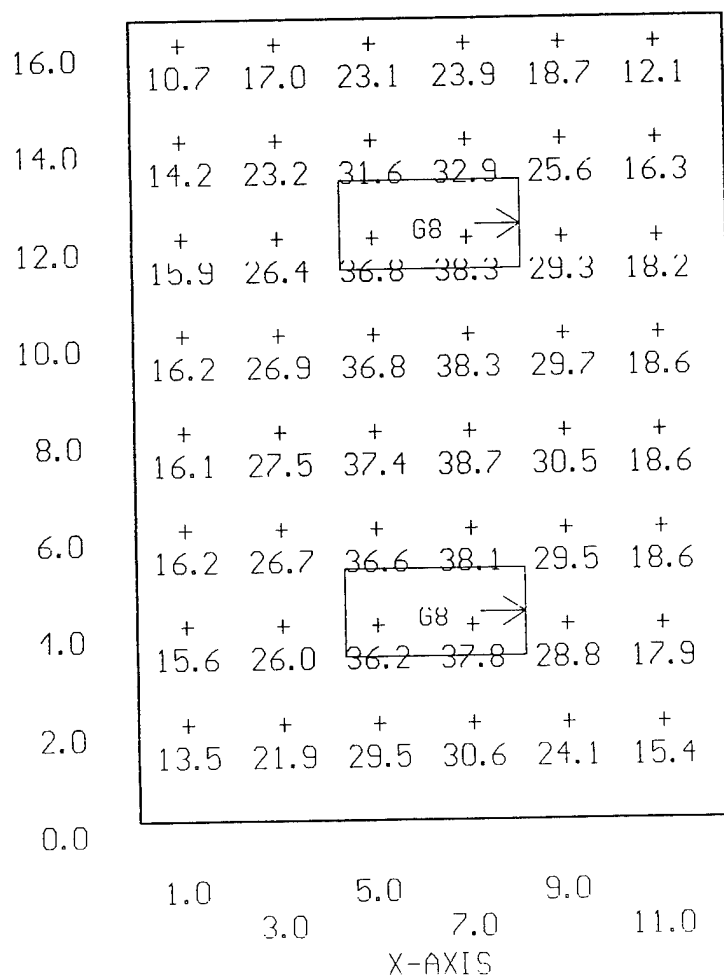


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 17:07 15-Mar-95
 PROJECT: 34-910 AREA: WO COPY ROOM-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=10.7 MAX=38.7 AVE=25.3 AVE/MIN= 2.35 MAX/MIN= 3.61

G8 <2> = 9868 COLUMBIA T84PS2*-84-242-2EOCT, (2) F032/31K, LLF= 0.61

Y-AXIS

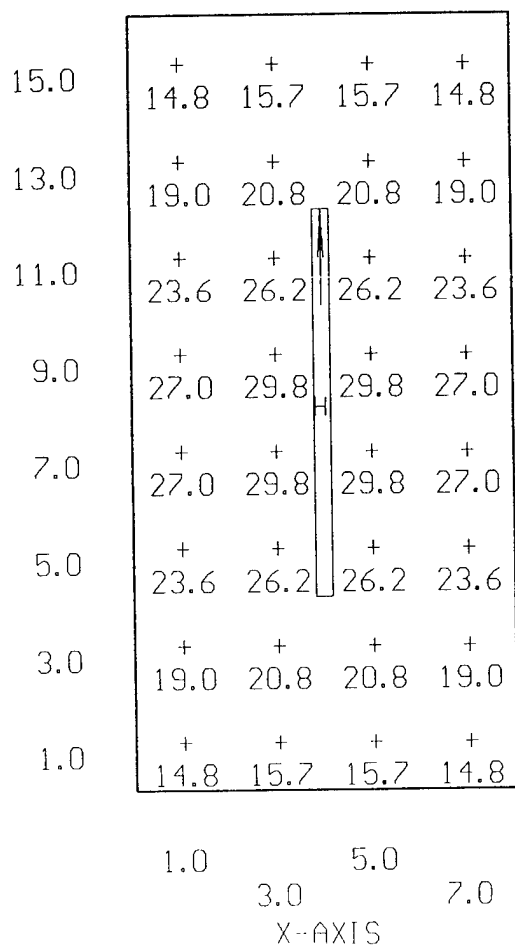


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 15:06 20-Dec-94
 PROJECT: 34-910 AREA: W0 STORAGE GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=14.8 MAX=29.8 AVE=22.1 AVE/MIN= 1.49 MAX/MIN= 2.02

H <1> = K7994 COLUMBIA CS296, <2> F96T12/CW/WM, LLF= 0.74

Y-AXIS

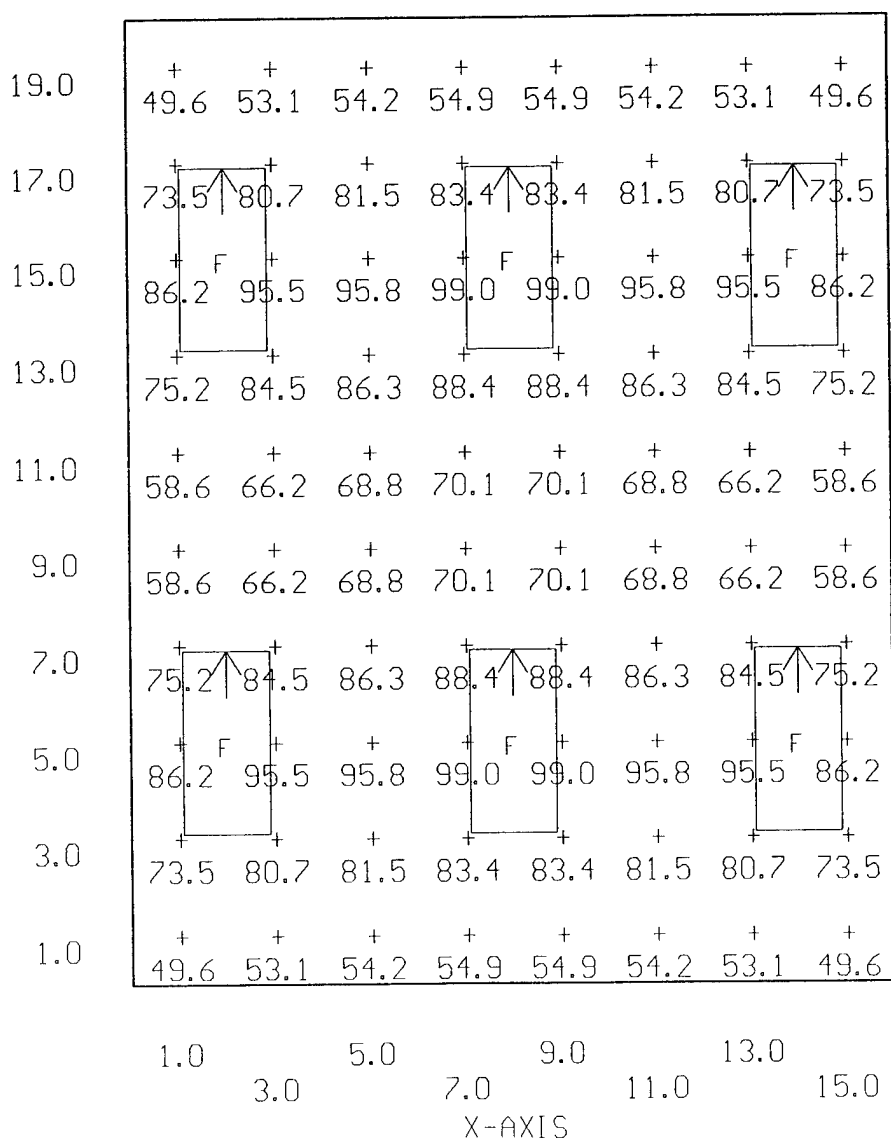


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 15:15 20-Dec-94
 PROJECT: 34-910 AREA: W0 BREAK ROOM GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=49.6 MAX=99.0 AVE=75.3 AVE/MIN= 1.52 MAX/MIN= 1.99

F <6> = 9753 COLUMBIA 4PS2*-87-244, (4) F40CW, LLF= 0.68

Y-AXIS



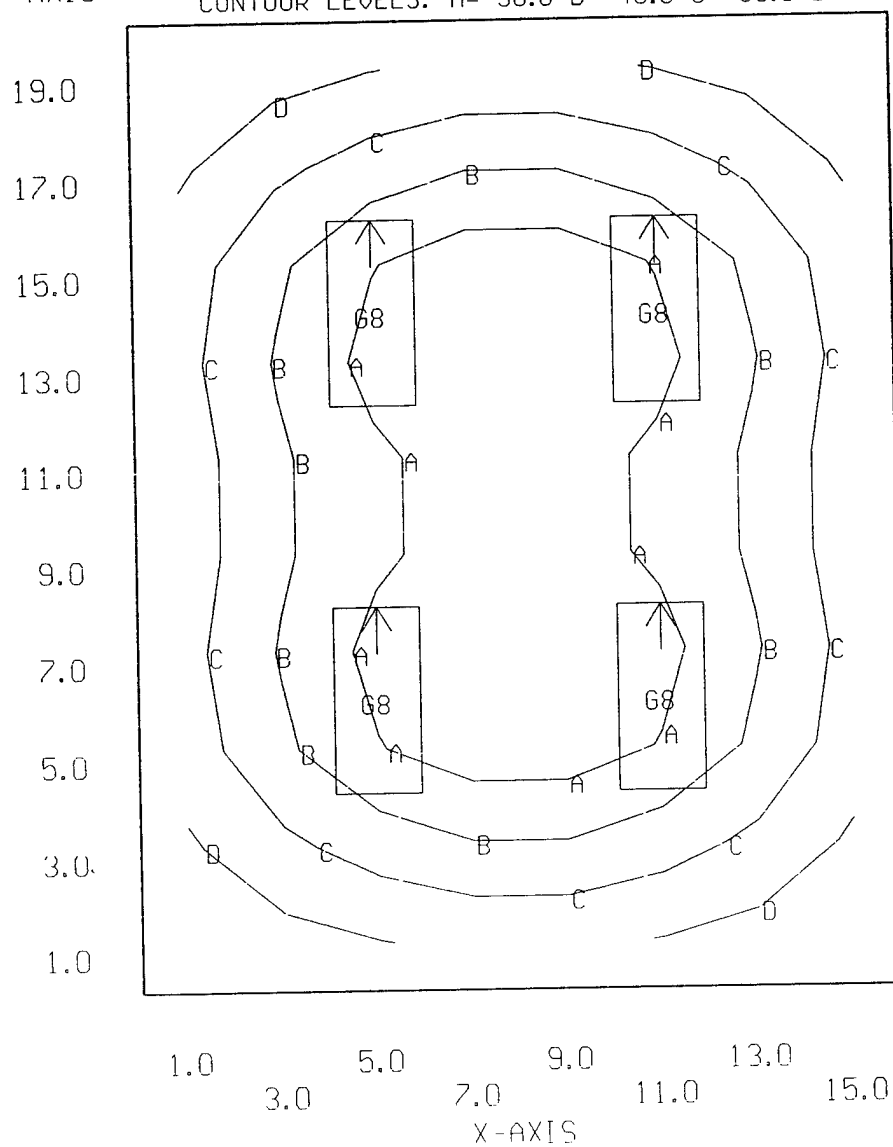
USI's LITE*PRO V2.27E Point-By-Point Numeric Output 17:10 15-Mar-95
 PROJECT: 34-910 AREA: WO BREAK ROOM-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=11.6 MAX=59.4 AVE=35.2 AVE/MIN= 3.02 MAX/MIN= 5.10

G8 <4> = 9868 COLUMBIA T84PS2*-84-242-2EOCT, <2> F032/31K, LLF= 0.61

Y-AXIS

CONTOUR LEVELS: A= 50.0 B= 40.0 C= 30.0 D= 20.0 E= 10.0

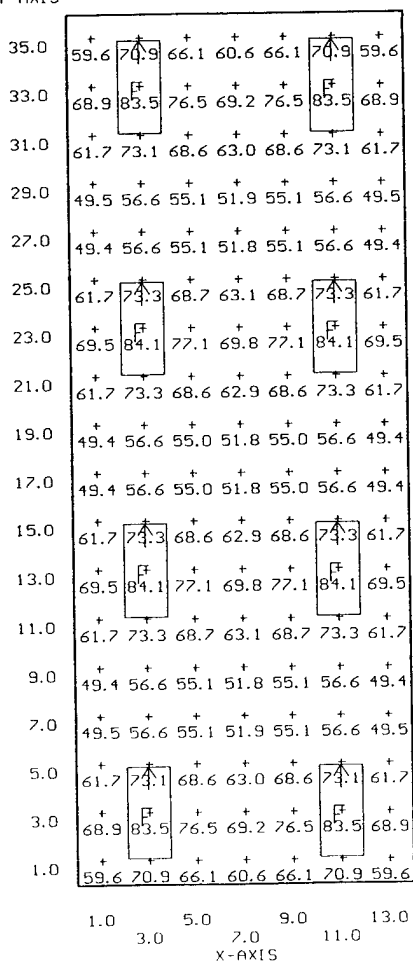


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 15:23 20-Dec-94
 PROJECT: 34-910 AREA: WO SECRETARY GRID: Ceiling
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=49.4 MAX=84.1 AVE=64.2 AVE/MIN= 1.30 MAX/MIN= 1.70

F (8) = 9753 COLUMBIA 4PS2*-87-244, (4) F40CW, LLF= 0.68

Y-AXIS

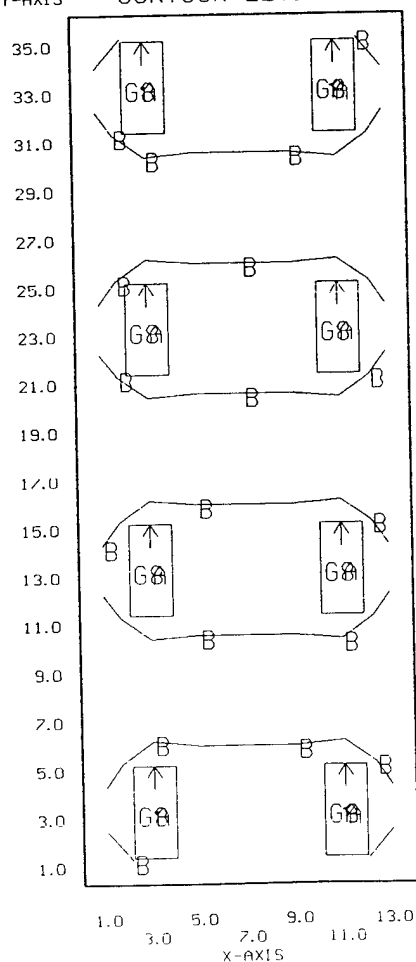


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 17:12 15-Mar-95
 PROJECT: 34-910 AREA: WO SECRETARY-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=31.3 MAX=50.2 AVE=40.2 AVE/MIN= 1.28 MAX/MIN= 1.60

G8 <8> = 9868 COLUMBIA T84PS2*-84-242-2EOCT, (2) F032/31K, LLF= 0.61

Y-AXIS CONTOUR LEVELS: A= 50.0 B= 40.0 C= 30.0 D= 20.0 E= 10.0

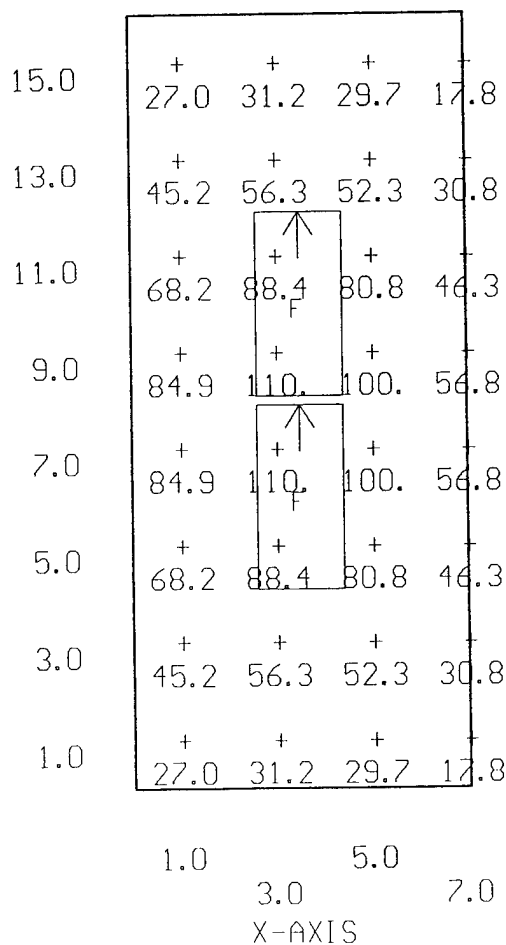


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 15:29 20-Dec-94
 PROJECT: 34-910 AREA: WO SEC. ALCOVE GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=17.8 MAX=110. AVE=57.9 AVE/MIN= 3.25 MAX/MIN= 6.18

F <2> = 9753 COLUMBIA 4PS2*-87-244, (4) F40CW, LLF= 0.68

Y-AXIS

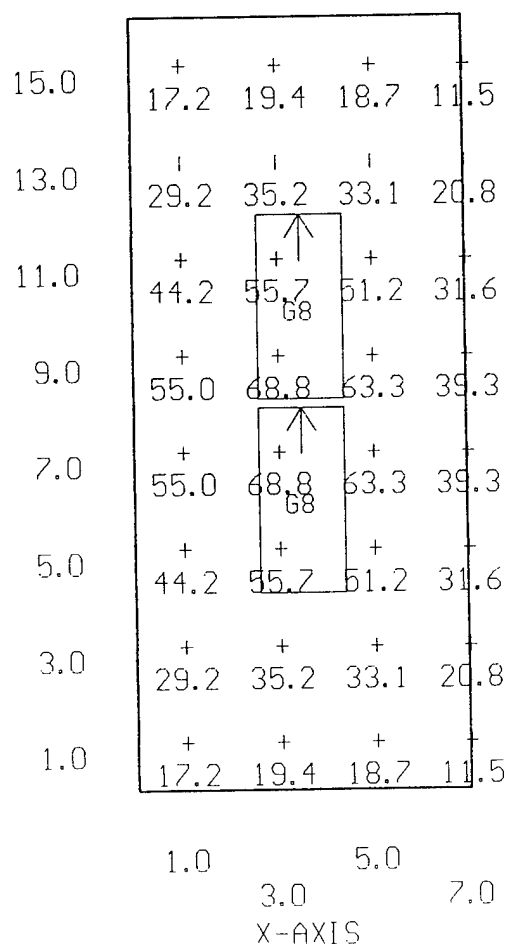


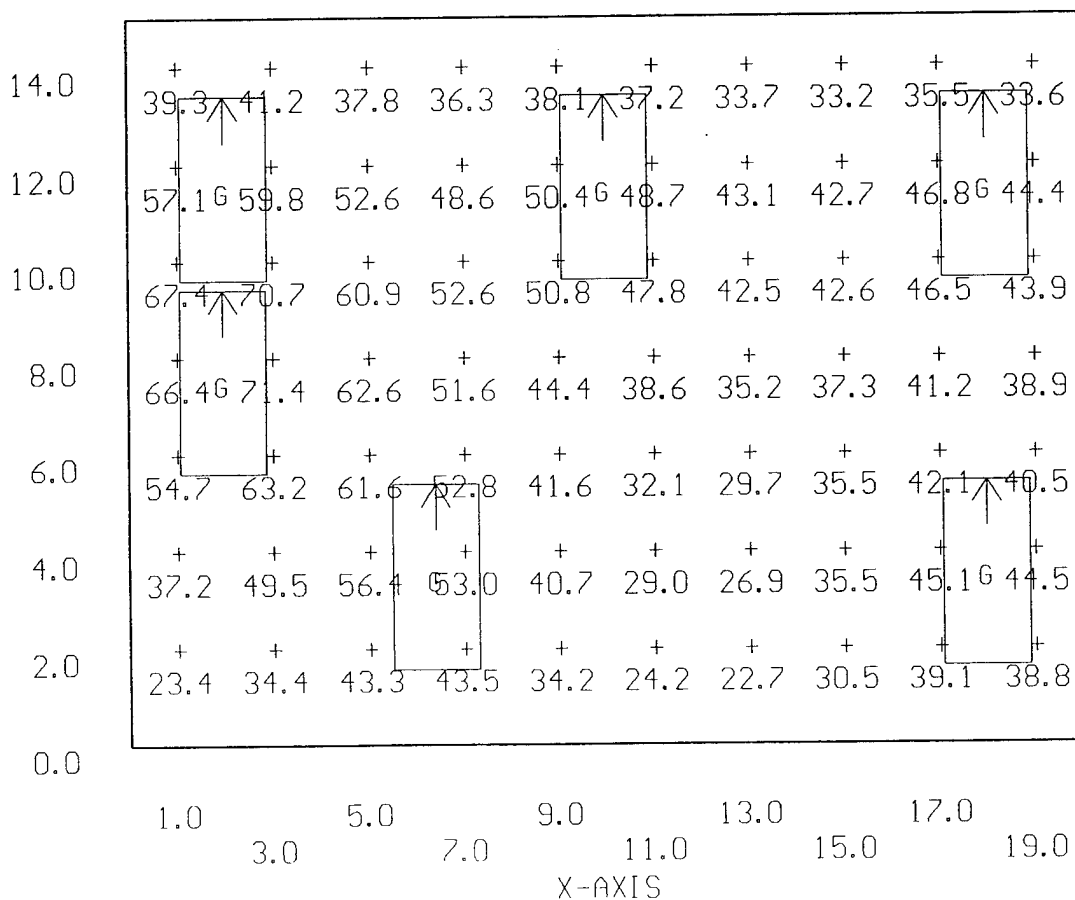
USI's LITE*PRO V2.27E Point-By-Point Numeric Output 17:14 15-Mar-95
 PROJECT: 34-910 AREA: SEC. ALCOVE-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=11.5 MAX=68.8 AVE=37.1 AVE/MIN= 3.24 MAX/MIN= 6.01

G8 <2> = 9868 COLUMBIA T84PS2*-84-242-2EOCT, <2> F032/31K, LLF= 0.61

Y-AXIS





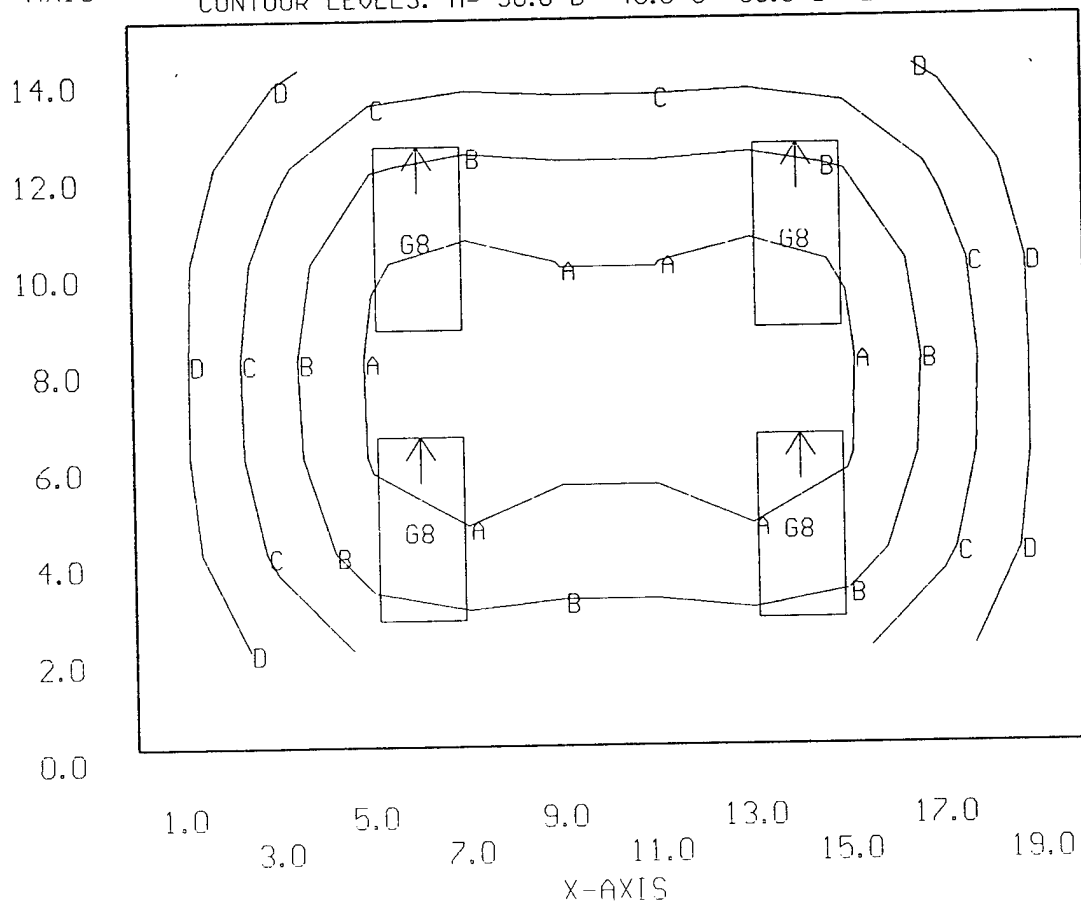
USI's LITE*PRO V2.27E Point-By-Point Numeric Output 17:17 15-Mar-95
 PROJECT: 34-910 AREA: MICROFICHE-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=9.85 MAX=54.4 AVE=35.0 AVE/MIN= 3.55 MAX/MIN= 5.53

G8 <4> = 9868 COLUMBIA T84PS2*-84-242-2EOCT, <2> F032/31K, LLF= 0.61

Y-AXIS

CONTOUR LEVELS: A= 50.0 B= 40.0 C= 30.0 D= 20.0 E= 10.0

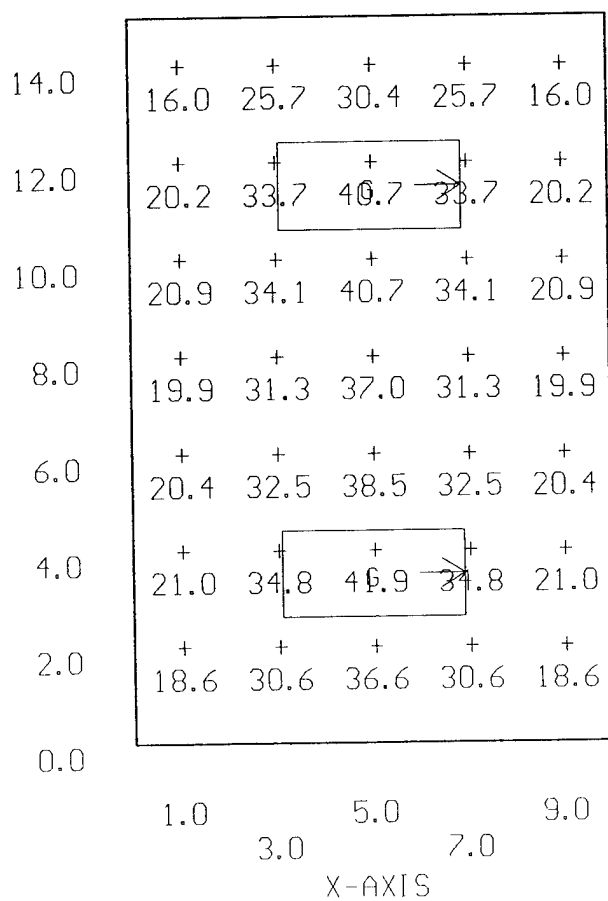


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:08 20-Dec-94
 PROJECT: 34-910 AREA: W0 MIC STORAGE GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=16.0 MAX=41.9 AVE=28.2 AVE/MIN= 1.76 MAX/MIN= 2.62

G <2> = 9975 COLUMBIA 4PS2*-52-242, <2> F40CW, LLF= 0.68

Y-AXIS

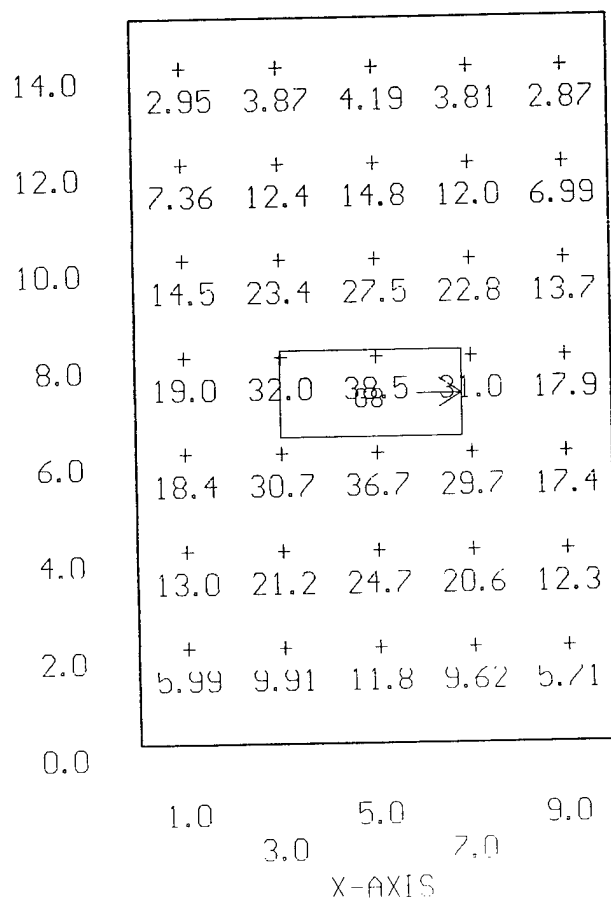


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 17:19 15-Mar-95
 PROJECT: 34-910 AREA: MIC STORAGE-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=2.87 MAX=38.5 AVE=16.6 AVE/MIN= 5.76 MAX/MIN= 13.40

68 <1> = 9868 COLUMBIA T84PS2*-84-242-2EOCT, <2> F032/31K, LLF= 0.61

Y-AXIS

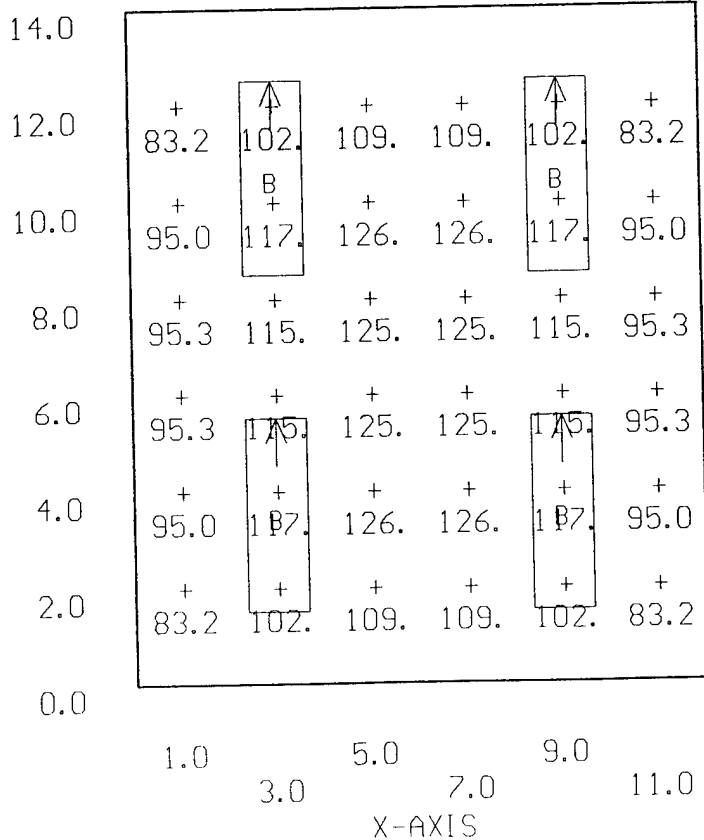


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:20 20-Dec-94
 PROJECT: 34-910 AREA: UTILITIES BREAK GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=83.2 MAX=126. AVE=108. AVE/MIN= 1.29 MAX/MIN= 1.51

B <4> = K9708 COLUMBIA WCW440-A, <4> F40CW, LLF= 0.68

Y-AXIS

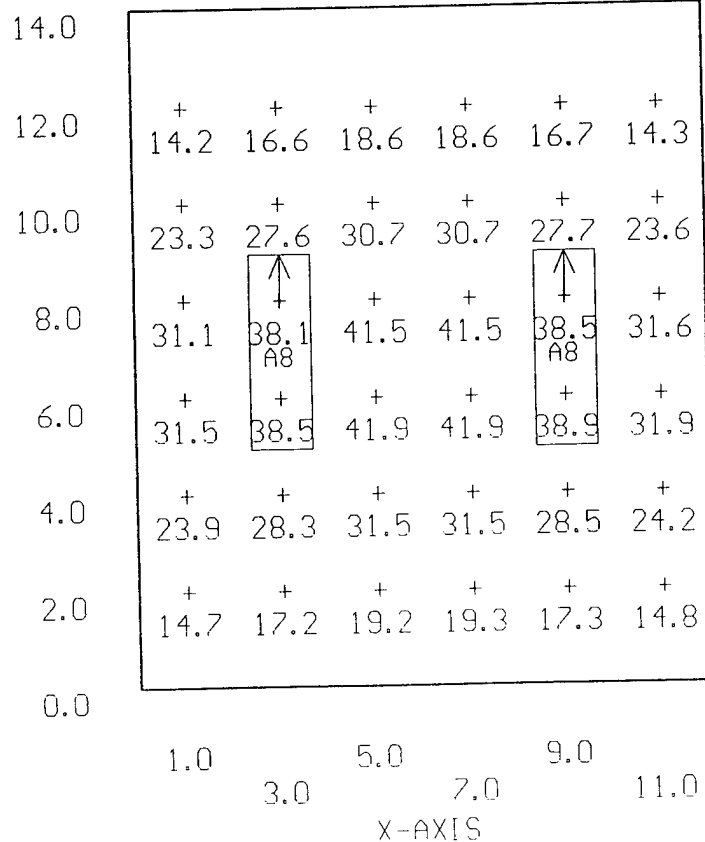


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 09:35 16-Mar-95
 PROJECT: 34-910A AREA: UTIL. BREAK-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=14.2 MAX=41.9 AVE=27.2 AVE/MIN= 1.92 MAX/MIN= 2.95

A8 <2> = K9604 COLUMBIA WCW240-A, <2> F032/35K, LLF= 0.66

Y-AXIS

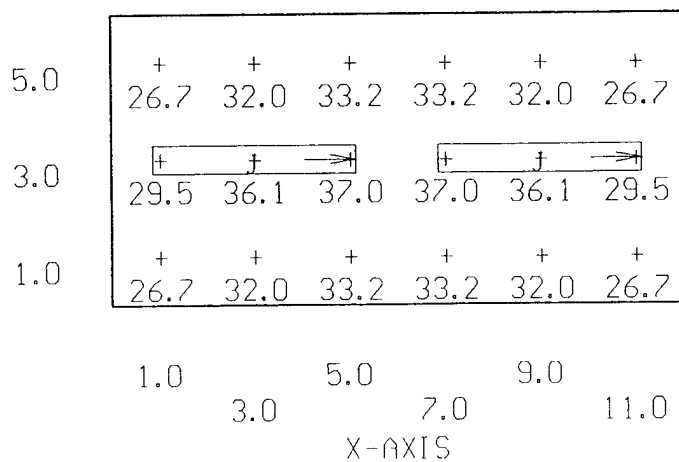


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:28 20-Dec-94
 PROJECT: 34-910 AREA: UTIL KITCHEN GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=26.7 MAX=37.0 AVE=31.8 AVE/MIN= 1.19 MAX/MIN= 1.39

J <2> = K9801X COLUMBIA LUN240-WL, <2> F40CW, LLF= 0.68

Y-AXIS



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 09:41 16-Mar-95
 PROJECT: 34-910A AREA: UTIL KITCHEN-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=13.7 MAX=33.3 AVE=22.5 AVE/MIN= 1.64 MAX/MIN= 2.43

A8 <1> = K9604 COLUMBIA WCW240-A, <2> F032/35K, LLF= 0.66

Y-AXIS

5.0	+	13.7	+	21.4	+	29.3	+	29.4	+	21.5	+	13.8	+
3.0	+	14.7	+	23.9	+	33.3	+	33.3	+	24.1	+	14.8	+
1.0	+	14.0	+	21.9	+	33.3	+	30.4	+	22.0	+	14.0	+

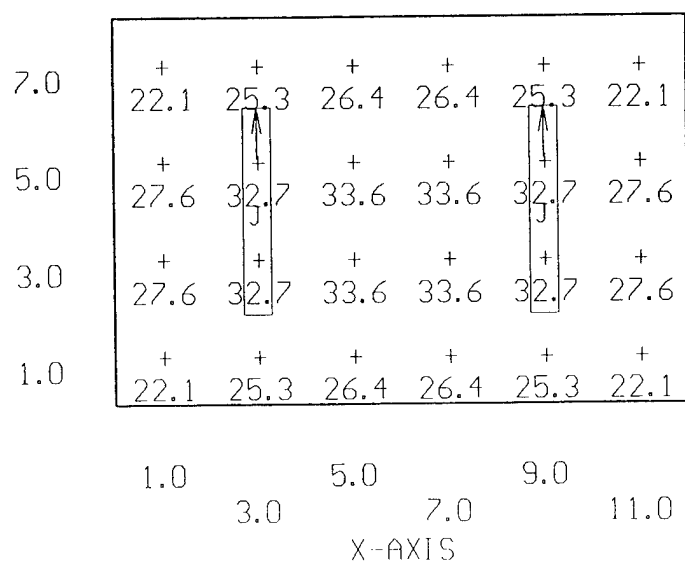
1.0 3.0 5.0 7.0 9.0 11.0
 X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:54 20-Dec-94
 PROJECT: 34-910 AREA: UTIL OFFICE GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=22.1 MAX=33.6 AVE=27.9 AVE/MIN= 1.27 MAX/MIN= 1.52

J <2> = K9801X COLUMBIA LUN240-WL, <2> F40CW, LLF= 0.68

Y-AXIS



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 09:45 16-Mar-95
 PROJECT: 34-910A AREA: UTIL OFFICE-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=27.7 MAX=45.3 AVE=36.2 AVE/MIN= 1.31 MAX/MIN= 1.64

A8 (2) = K9604 COLUMBIA WCW240-A, (2) F032/35K, LLF= 0.66

Y-AXIS

7.0	+	27.7	+	32.2	+	35.5	+	35.5	+	32.2	+	27.7	+
5.0	+	34.7	+	42.0	+	45.3	+	45.3	+	42.0	+	34.7	+
3.0	+	34.7	+	42.0	+	45.3	+	45.3	+	42.0	+	34.7	+
1.0	+	27.7	+	32.2	+	35.5	+	35.5	+	32.2	+	27.7	+

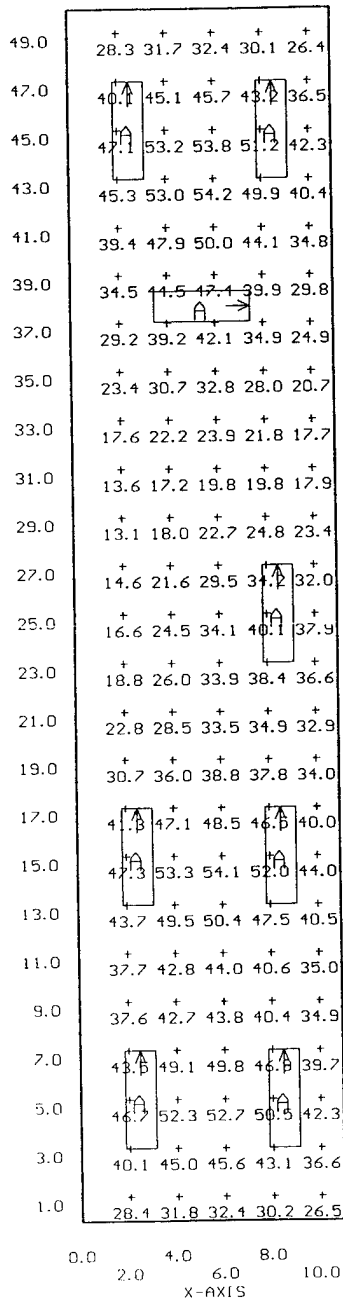
1.0 3.0 5.0 7.0 9.0 11.0
 X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 17:09 20-Dec-94
 PROJECT: 34-910 AREA: WOMEN'S CHANGE GRID: Ceiling
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=13.1 MAX=54.2 AVE=36.5 AVE/MIN= 2.79 MAX/MIN= 4.14

A <8> = K9604 COLUMBIA WCW240-A, (2) F40CW, LLF= 0.68

Y-AXIS

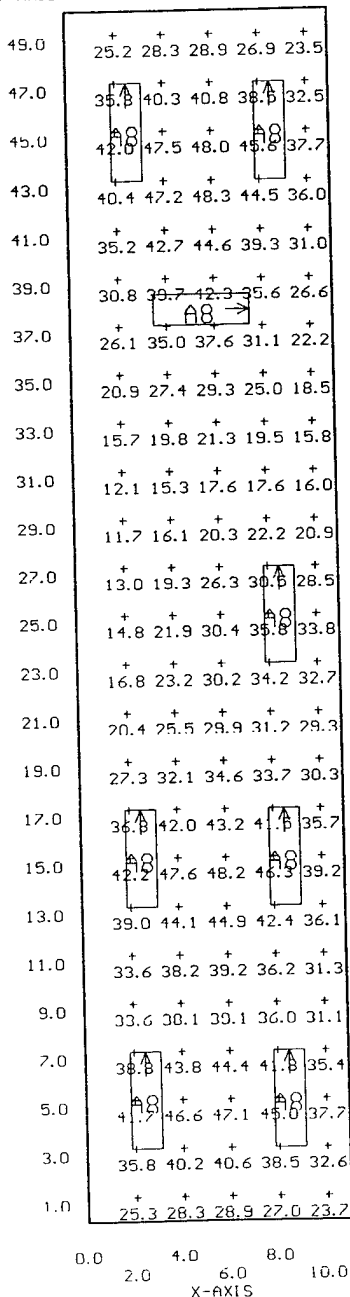


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 09:48 16-Mar-95
 PROJECT: 34-910A AREA: WOMENS CHANGE-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=11.7 MAX=48.3 AVE=32.6 AVE/MIN= 2.79 MAX/MIN= 4.14

A8 <8> = K9604 COLUMBIA WCW240-A, <2> F032/35K, LLF= 0.66

Y-AXIS



US's LITE*PRO V2.27E Point-By-Point Numeric Output 11:18 21-Dec-94
 PROJECT: 34-910 AREA: HALL - CHANGE 1 GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=1.52 MAX=34.1 AVE=17.2 AVE/MIN= 11.28 MAX/MIN= 22.40

K1 <i> = 9713 COLUMBIA KL496, <4> F40CW, LLF= 0.64

Y-AXIS

3.0	1.52	1.85	2.43	3.57	5.37	7.61	11.2	18.3	26.1	31.3	34.1	33.9	31.1	27.0	22.3
1.0	1.52	1.85	2.43	3.57	5.37	7.61	11.2	18.3	26.1	31.3	34.1	33.9	31.1	27.0	22.3

1.0	3.0	5.0	7.0	9.0	11.0	13.0	15.0	17.0	19.0	21.0	23.0	25.0	27.0	29.0

X-AXIS

US1's LITE*ERC V2.27E Point-By-Point Numeric Output 10:08 16-Mar-95
PROJECT: 34-910A AREA: HALL-CHANGE 1-N GRID: Ceiling
Values are FC, SCALE: 1 IN= 5.0FT, HORZ GRID (U), HCRZ CALC, Z= 2.5
Computed in accordance with IES recommendations

+ MIN=8.27	MAX=13.6	AVE=11.7	AVE/MIN=	1.41	MAX/MIN=	1.65

11 <2> = 10333 COLUMBIA CSR140-PAF-EOCT, (1) F032/35K, $L^- = 0.86$

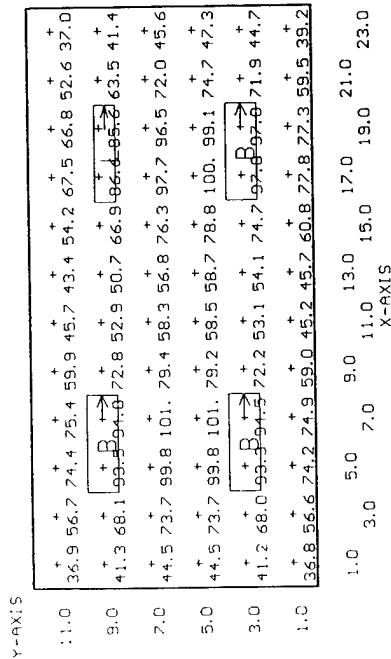
Y-AXIS

[illegible]

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 13:35 21-Dec-94
 PROJECT: 34-910 AREA: GROUNDS/MAINT. GRID: Ceiling
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=36.8 MAX=101. AVE=67.7 AVE/MIN= 1.84 MAX/MIN= 2.76

B <3> = K9708 COLUMBIA WCU440-A, <4> F40CW, LLF= 0.68
 L <1> = 10368 COLUMBIA KL440-SOLID, <4> F40CW, LLF= 0.68

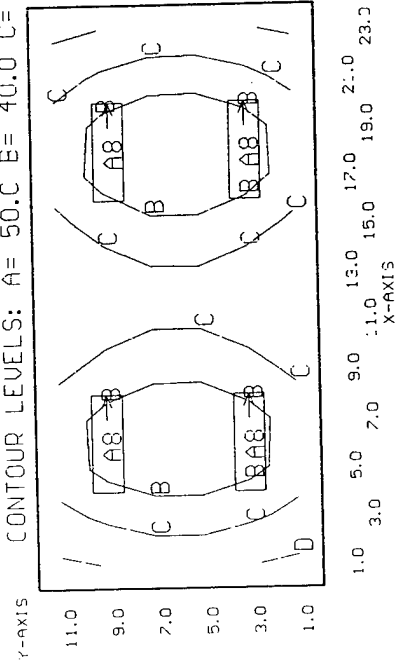


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 10:11 16-Mar-95
 PROJECT: 34-910A AREA: GROUNDS/MAINT-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ YIN=17.9 MAX=48.3 AVE=32.4 AVE/MIN= 1.82 MAX/MIN= 2.71

A8 <4> = K9604 COLUMBIA JCW240-A, <2> F032/35K, LLF= 0.70

CONTOUR LEVELS: A= 50.0 B= 40.0 C= 30.0 D= 20.0 E= 10.0

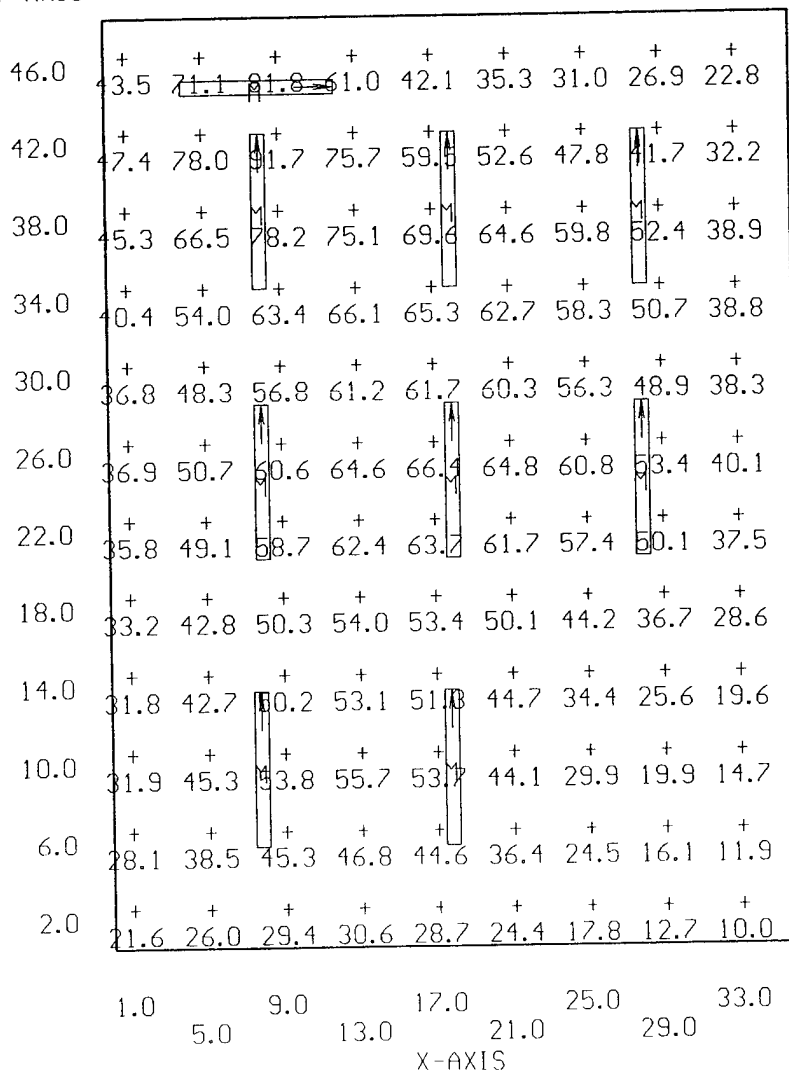


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:08 21-Dec-94
 PROJECT: 34-910 AREA: REFRIG SHOP GRID: Ceiling
 Values are FC, SCALE: 1 IN= 10.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=10.0 MAX=91.7 AVE=46.5 AVE/MIN= 4.63 MAX/MIN= 9.12

M <9> = K8966K COLUMBIA K496-T, (4) F96T12/CW/WM, LLF= 0.74

Y-AXIS

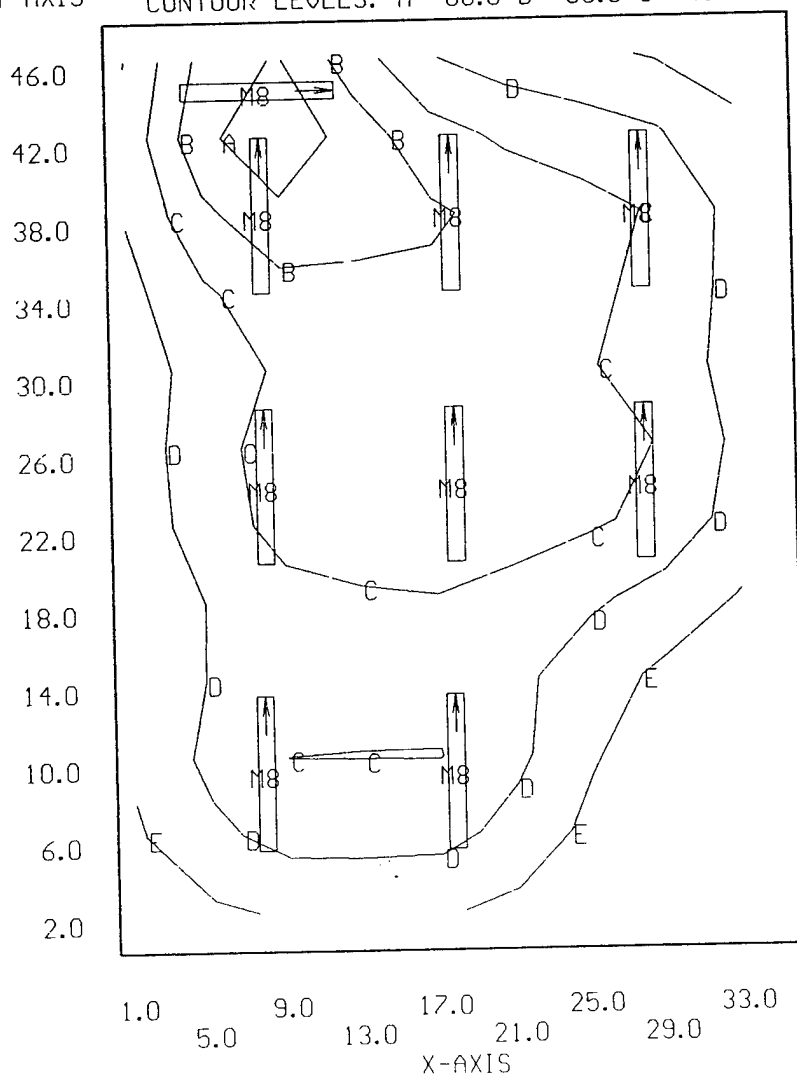


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 10:42 16-Mar-95
 PROJECT: 34-910A AREA: REFRIG SHOP-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 10.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=6.33 MAX=68.4 AVE=33.5 AVE/MIN= 5.28 MAX/MIN= 10.81

M8 <9> = K8673 COLUMBIA CSR296-A, (2) F096/735, LLF= 0.86

Y-AXIS CONTOUR LEVELS: A- 60.0 B- 50.0 C- 40.0 D- 30.0 E- 20.0

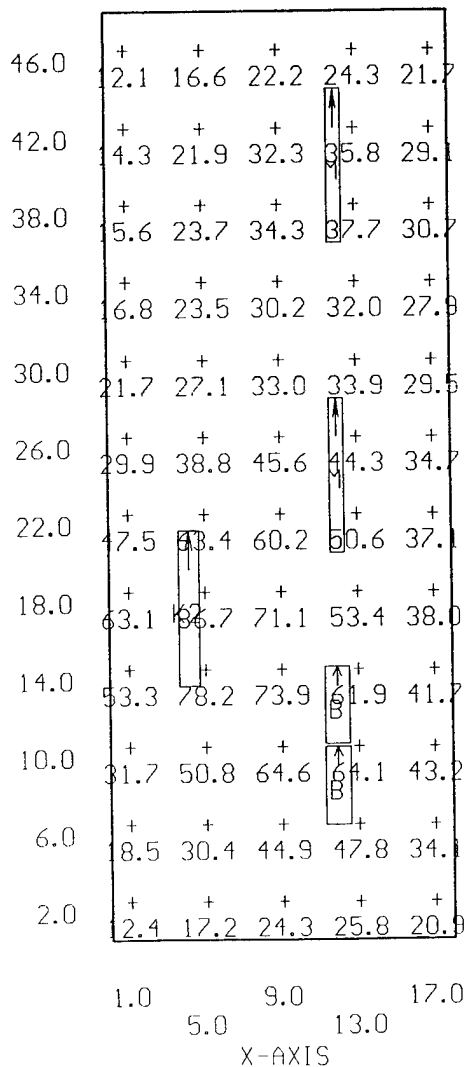


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:53 21-Dec-94
 PROJECT: 34-910 AREA: REFRIG HALL GRID: Ceiling
 Values are FC, SCALE: 1 IN= 10.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=12.1 MAX=86.7 AVE=37.5 AVE/MIN= 3.10 MAX/MIN= 7.16

B <2> = K9708 COLUMBIA WCW440-A, (4) F40CW, LLF= 0.68
 K2 <1> = 9713 COLUMBIA KL496, (4) F96T12/CW/WM, LLF= 0.69
 M <2> = K8966K COLUMBIA K496-T, (4) F96T12/CW/WM, LLF= 0.74

Y-AXIS

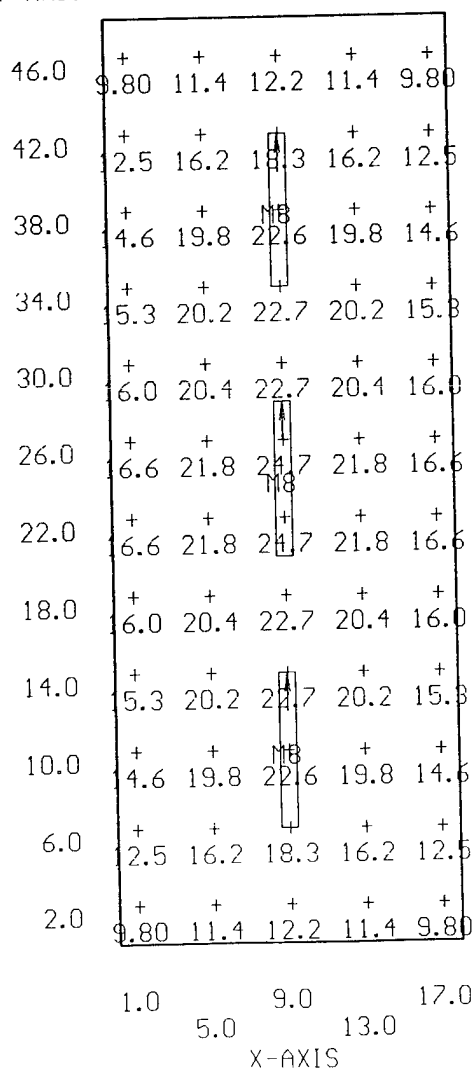


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 11:32 16-Mar-95
 PROJECT: 34-910A AREA: REFRIG HALL-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 10.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=9.80 MAX=24.7 AVE=17.1 AVE/MIN= 1.74 MAX/MIN= 2.52

M8 <3> = K8673 COLUMBIA CSR296-A, <2> F096/735, LLF= 0.86

Y-AXIS

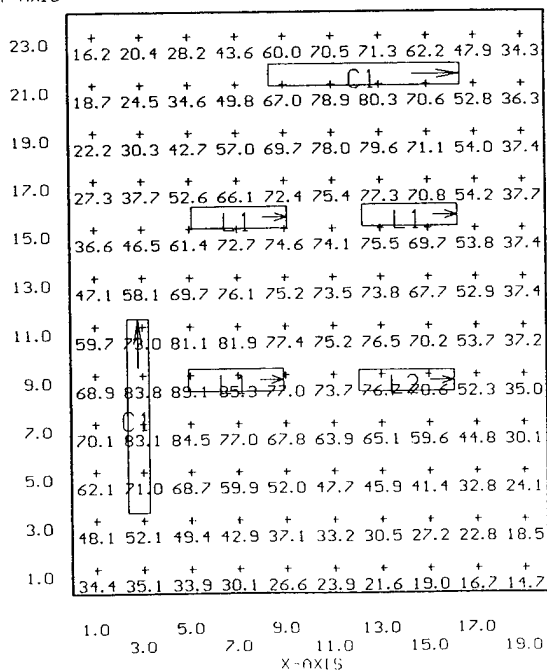


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 15:25 21-Dec-94
 PROJECT: 34-910 AREA: ELEC SHOP BREAK GRID: Ceiling
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=14.7 MAX=89.1 AVE=54.0 AVE/MIN= 3.68 MAX/MIN= 6.08

C1 <2> = K7993 COLUMBIA CSR296, <2> F96T12/CW, LLF= 0.67
 L1 <3> = K7990 COLUMBIA CSR240, <2> F40CW, LLF= 0.68
 L2 <1> = 10366 COLUMBIA KL340-SOLID, <3> F40CW, LLF= 0.68

Y-AXIS

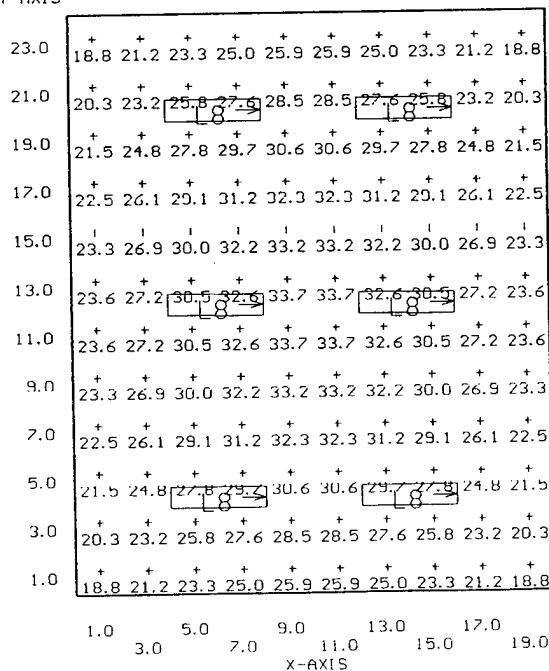


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 11:39 16-Mar-95
 PROJECT: 34-910A AREA: ELEC SHOP BRK-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=18.8 MAX=33.7 AVE=27.0 AVE/MIN= 1.44 MAX/MIN= 1.79

L8 <6> = 10331 COLUMBIA CSR240-PAF-EOCT, (2) F032/35K, LLF= 0.66

Y-AXIS

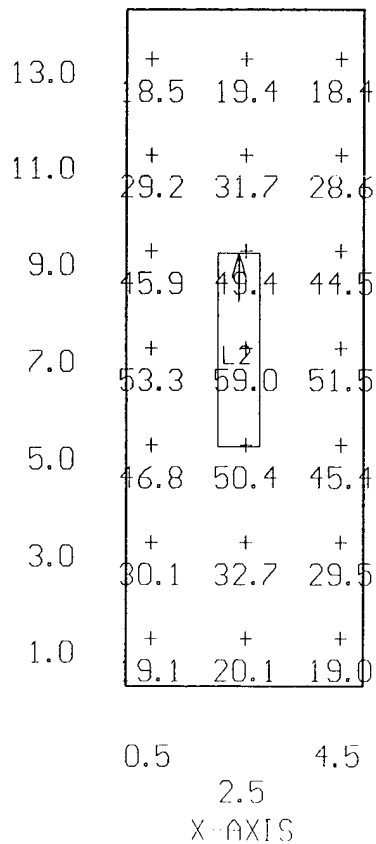


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 13:20 22-Dec-94
 PROJECT: 34-910 AREA: ELEC SHOP HALL1 GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=18.4 MAX=59.0 AVE=35.4 AVE/MIN= 1.93 MAX/MIN= 3.21

L2 <1> = 10366 COLUMBIA KL340-SOLID, <3> F40CW, LLF= 0.68

Y-AXIS

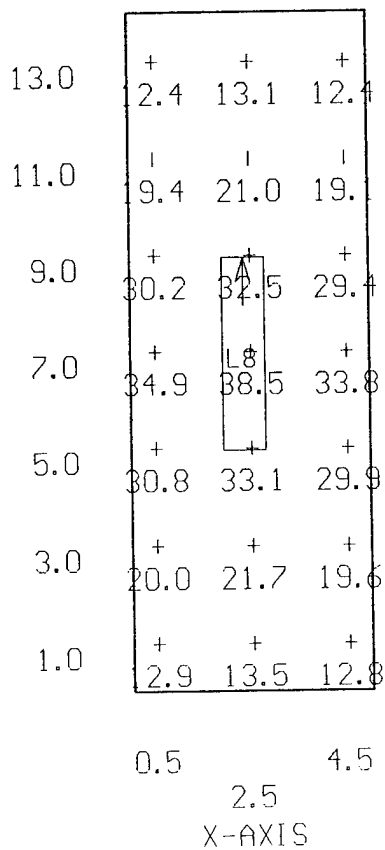


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 11:41 16-Mar-95
 PROJECT: 34-910A AREA: ELEC SP HALL1-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=12.4 MAX=38.5 AVE=23.4 AVE/MIN= 1.88 MAX/MIN= 3.11

L8 <1> = 10331 COLUMBIA CSR240-PAF-E0CT, <2> F032/35K, LLF= 0.66

Y-AXIS



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 09:36 23-Dec-94
 PROJECT: 34-910 AREA: ELEC SHOP HALL2 GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=8.71 MAX=44.2 AVE=31.2 AVE/MIN= 3.58 MAX/MIN= 5.08

1 (2) = K7990 COLUMBIA CSR240, (2) F40CW, LLF= 0.68

Y-AXIS

5.0	+	31.1	+	38.7	+	39.0	+	36.0	+	37.0	+	38.9	+	34.0	+	23.3	+	13.7	+	8.71
3.0	+	34.4	+	44.0	+	43.9	+	39.5	+	41.0	+	44.2	+	38.2	+	25.3	+	14.6	+	8.94
1.0	+	31.1	+	38.7	+	39.0	+	36.0	+	37.0	+	38.9	+	34.0	+	23.3	+	13.7	+	8.71

1.5 3.5 5.5 7.5 9.5 11.5 13.5 15.5 17.5 19.5
 X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 11:43 16-Mar-95
 PROJECT: 34-910A AREA: ELEC SP HALL2-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.3FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=3.18 MAX=33.0 AVE=14.9 AVE/MIN= 4.68 MAX/MIN= 10.37

L8 <1> = 10331 COLUMBIA CSR240-PAF-EOCT, <2> F032/35K, LLF= 0.66

Y-AXIS

5.0	+	3.18	+	4.77	+	8.25	+	14.1	+	22.3	+	28.8	+	26.8	+	18.6	+	10.8	+	6.70
3.0	+	3.20	+	4.89	+	8.44	+	15.1	+	25.2	+	33.0	+	30.3	+	20.2	+	11.5	+	6.84
1.0	+	3.18	+	4.77	+	8.25	+	14.1	+	22.3	+	28.8	+	26.8	+	18.6	+	10.8	+	6.70

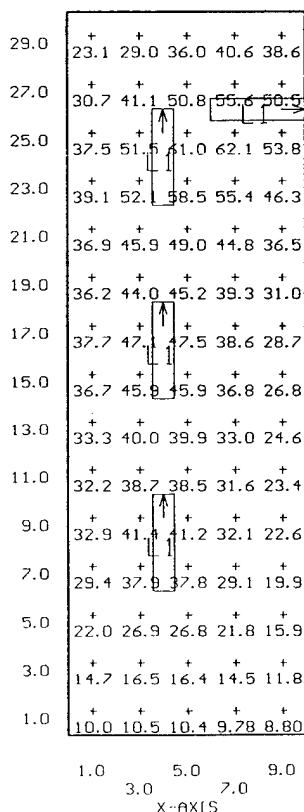
1.5 3.5 5.5 7.5 9.5 11.5 13.5 15.5 17.5 19.5
 X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 09:59 23-Dec-94
 PROJECT: 34-910 AREA: ELEC SHOP WORK GRID: Ceiling
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=8.80 MAX=62.1 AVE=34.8 AVE/MIN= 3.96 MAX/MIN= 7.06

L1 <4> = K7990 COLUMBIA CSR240, <2> F40CW, LLF= 0.68

Y-AXIS

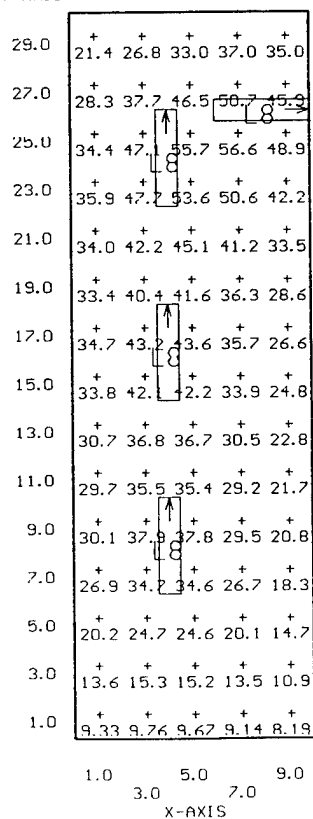


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 11:46 16-Mar-95
 PROJECT: 34-910A AREA: ELEC SHP WORK-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=8.19 MAX=56.6 AVE=32.0 AVE/MIN= 3.90 MAX/MIN= 6.91

L8 <4> = 10331 COLUMBIA CSR240-PAF-EOCT, <2> F032/35K, LLF= 0.66

Y-AXIS

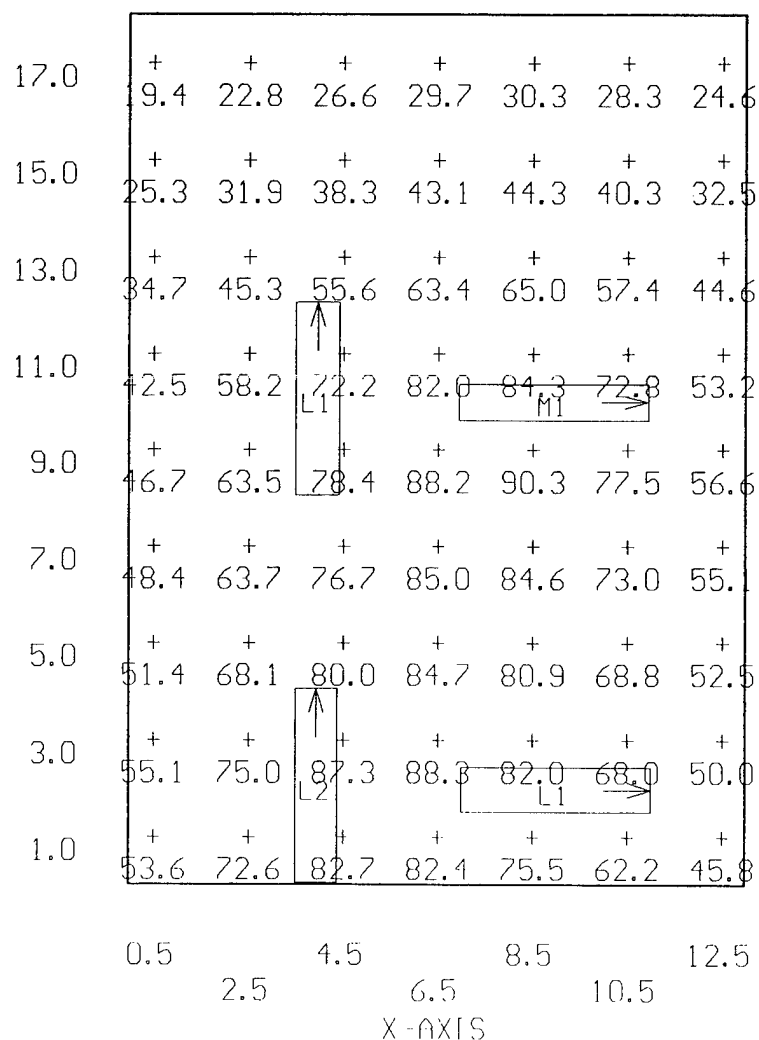


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 11:06 23-Dec-94
 PROJECT: 34-910 AREA: ELEC OFFICE 1 GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=19.4 MAX=90.3 AVE=59.1 AVE/MIN= 3.05 MAX/MIN= 4.65

L1 <2> = K7990 COLUMBIA CSR240, <2> F40CW, LLF= 0.68
 L2 <1> = 10366 COLUMBIA KL340-SOLID, <3> F40CW, LLF= 0.68
 M1 <1> = K8966 COLUMBIA K440-T, <4> F40CW, LLF= 0.73

Y-AXIS



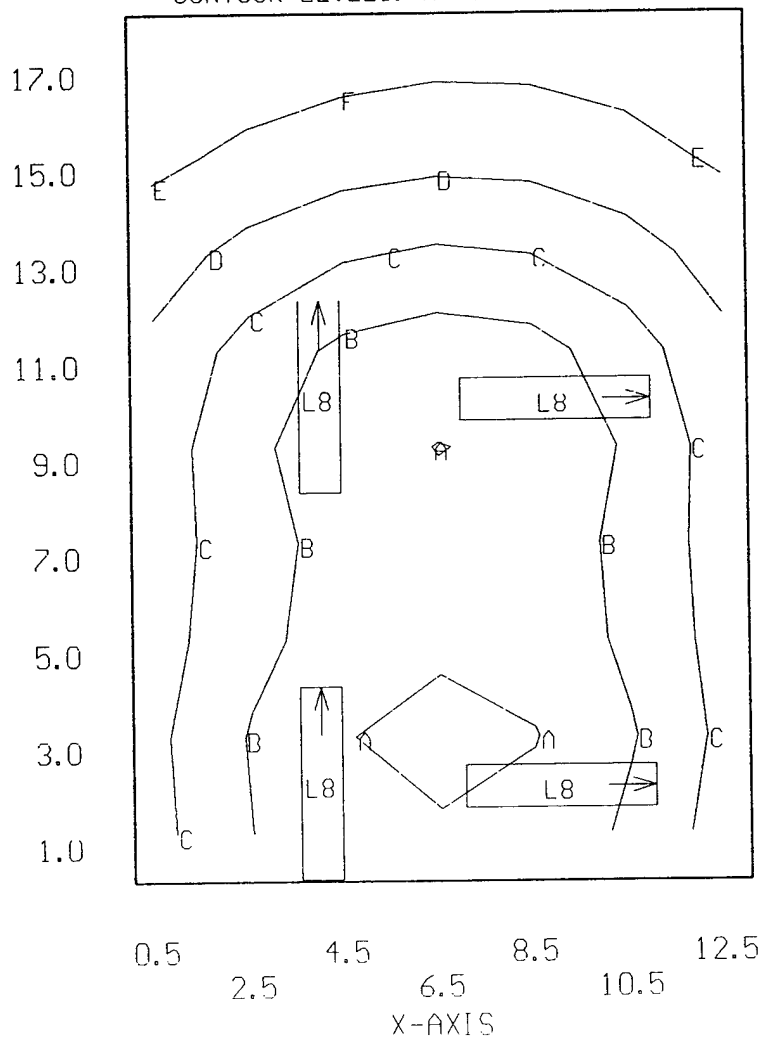
USI's LITE*PRO V2.27E Point-By-Point Numeric Output 11:48 16-Mar-95
 PROJECT: 34-910A AREA: ELEC OFFICE 1-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=13.1 MAX=62.5 AVE=40.3 AVE/MIN= 3.07 MAX/MIN= 4.77

L8 <4> = 10331 COLUMBIA CSR240-PAF-EOCT, <2> F032/35K, LLF= 0.66

Y-AXIS

CONTOUR LEVELS: A= 60.0 B= 50.0 C= 40.0 D= 30.0 E= 20.0

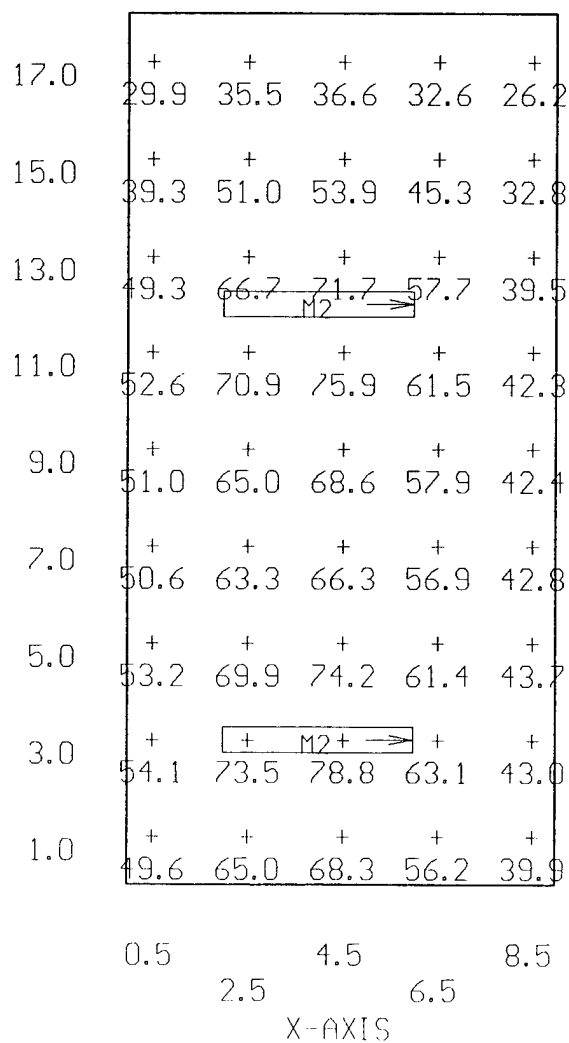


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 11:57 23-Dec-94
 PROJECT: 34-910 AREA: ELEC SM PTS STO GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=26.2 MAX=78.8 AVE=54.0 AVE/MIN= 2.06 MAX/MIN= 3.00

M2 <2> = K8963 COLUMBIA CH440, (4) F40CW, LLF= 0.73

Y-AXIS

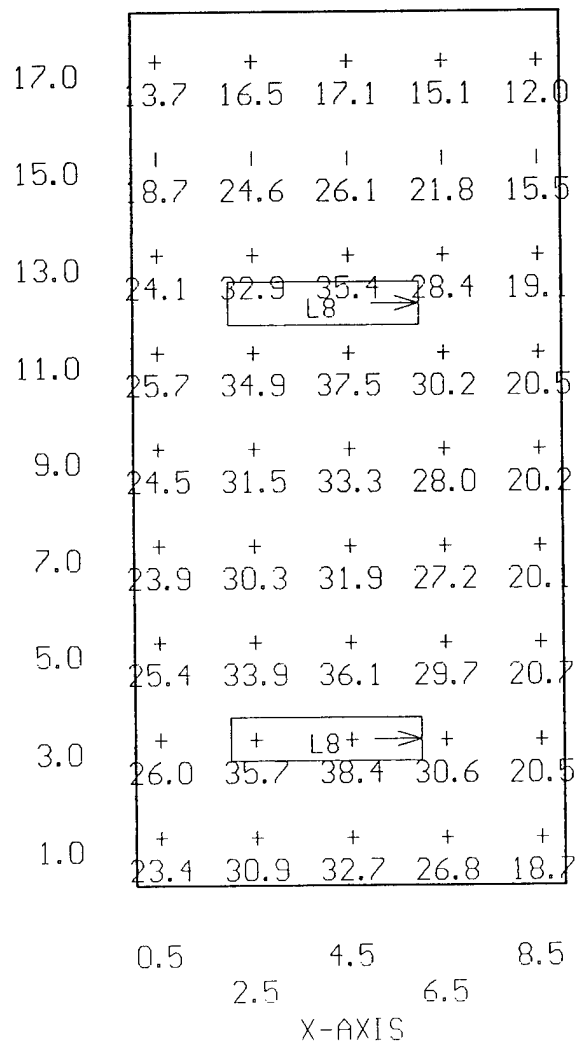


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 11:50 16-Mar-95
 PROJECT: 34-910A AREA: ELEC PTS STO-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=12.0 MAX=38.4 AVE=26.0 AVE/MIN= 2.16 MAX/MIN= 3.19

L8 <2> = 10331 COLUMBIA CSR240-PAF-EOCT, <2> F032/35K, LLF= 0.66

Y-AXIS

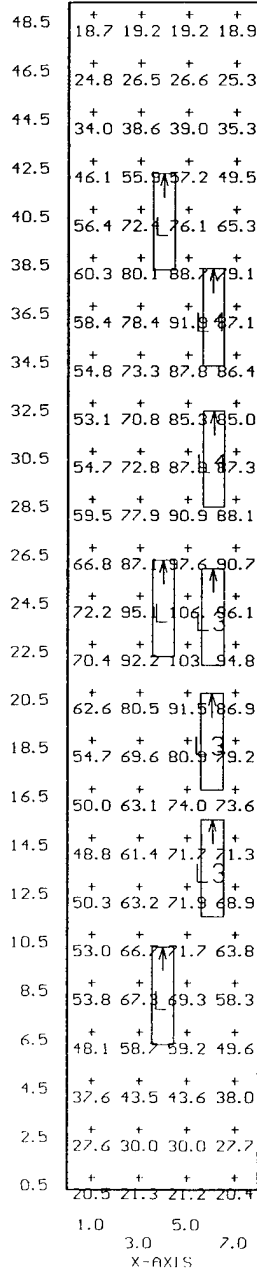


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 13:29 23-Dec-94
 PROJECT: 34-910 AREA: LOCKSMITH GRID: Ceiling
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=18.7 MAX=106. AVE=61.7 AVE/MIN= 3.30 MAX/MIN= 5.66

L <3> = 10368 COLUMBIA KL440-SOLID, <4> F40CW, LLF= 0.68
 L3 <3> = K7990 COLUMBIA CSR240, <2> F40CW/RS/WM, LLF= 0.68
 L4 <2> = 10366 COLUMBIA KL340-SOLID, <3> F40CW/RS/WM, LLF= 0.68

Y-AXIS

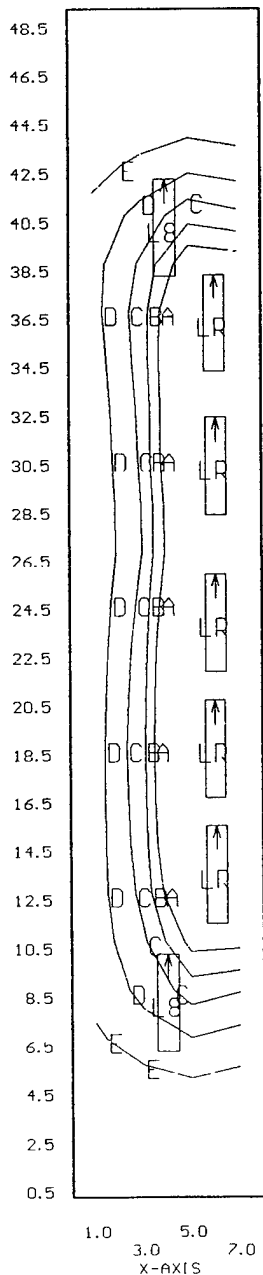


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 11:59 16-Mar-95
 PROJECT: 34-910A AREA: LOCKSMITH-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=11.8 MAX=114. AVE=53.5 AVE/MIN= 4.55 MAX/MIN= 9.69

L8 <2> = 10331 COLUMBIA CSR240-PAF-EOCT, <2> F032/35K, LLF= 0.66
 LR <5> = T11307 METALOPTICS ISSOFSFTTS042EP11, <2> F032/35K, LLF= 0.81

Y-AXIS CONTOUR LEVELS: A= 70.0 B= 60.0 C= 50.0 D= 40.0 E= 30.0

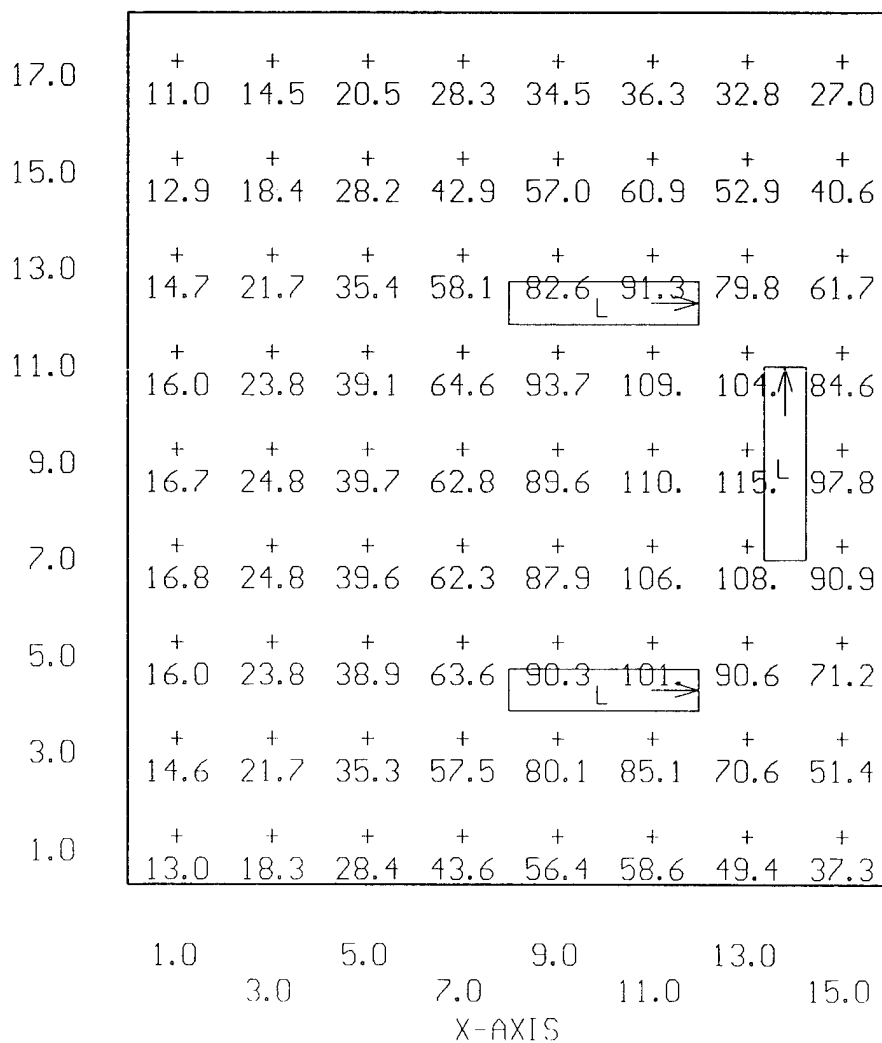


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:02 23-Dec-94
 PROJECT: 34-910 AREA: INSTR SHOP BRK GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=11.0 MAX=115. AVE=52.9 AVE/MIN= 4.79 MAX/MIN= 10.43

L <3> = 10368 COLUMBIA KL440-SOLID, <4> F40CW, LLF= 0.68

Y-AXIS

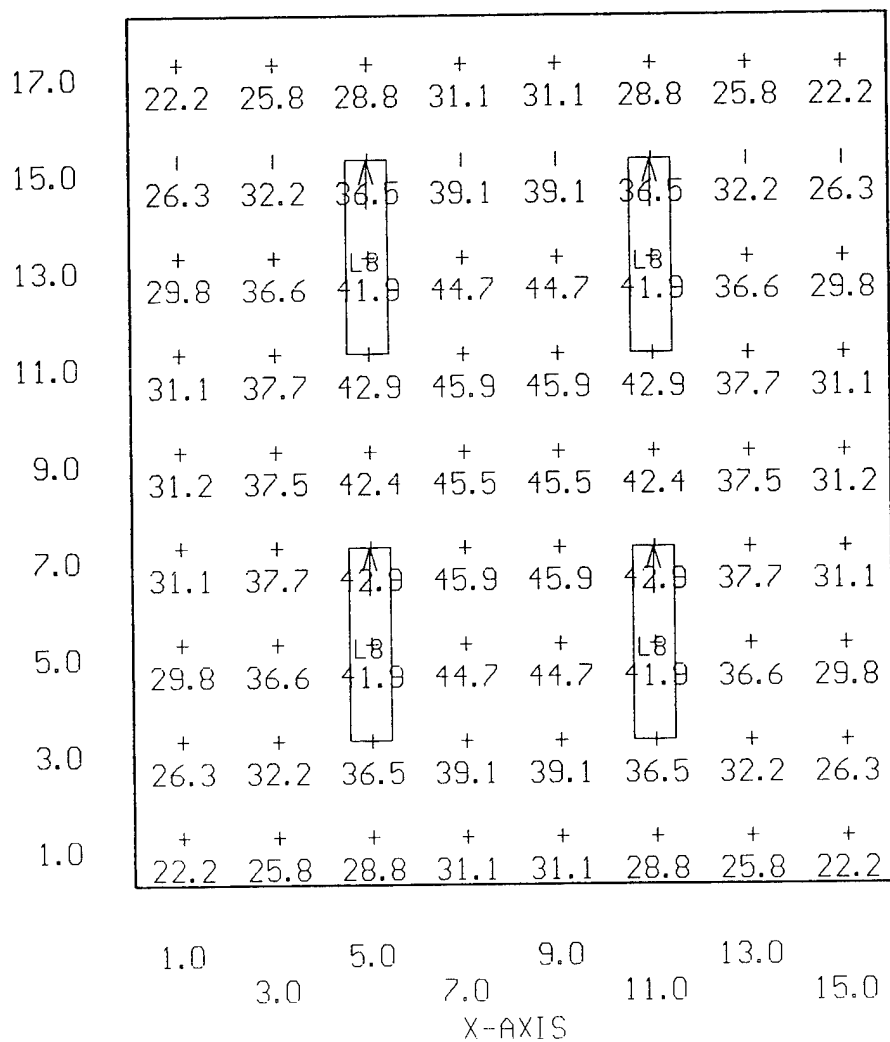


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:41 16-Mar-95
 PROJECT: 34-910A AREA: INSTR SHP BRK-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=22.2 MAX=45.9 AVE=35.1 AVE/MIN= 1.58 MAX/MIN= 2.07

L8 <4> = 10331 COLUMBIA CSR240-PAF-E0CT, <2> F032/35K, LLF= 0.66

Y-AXIS

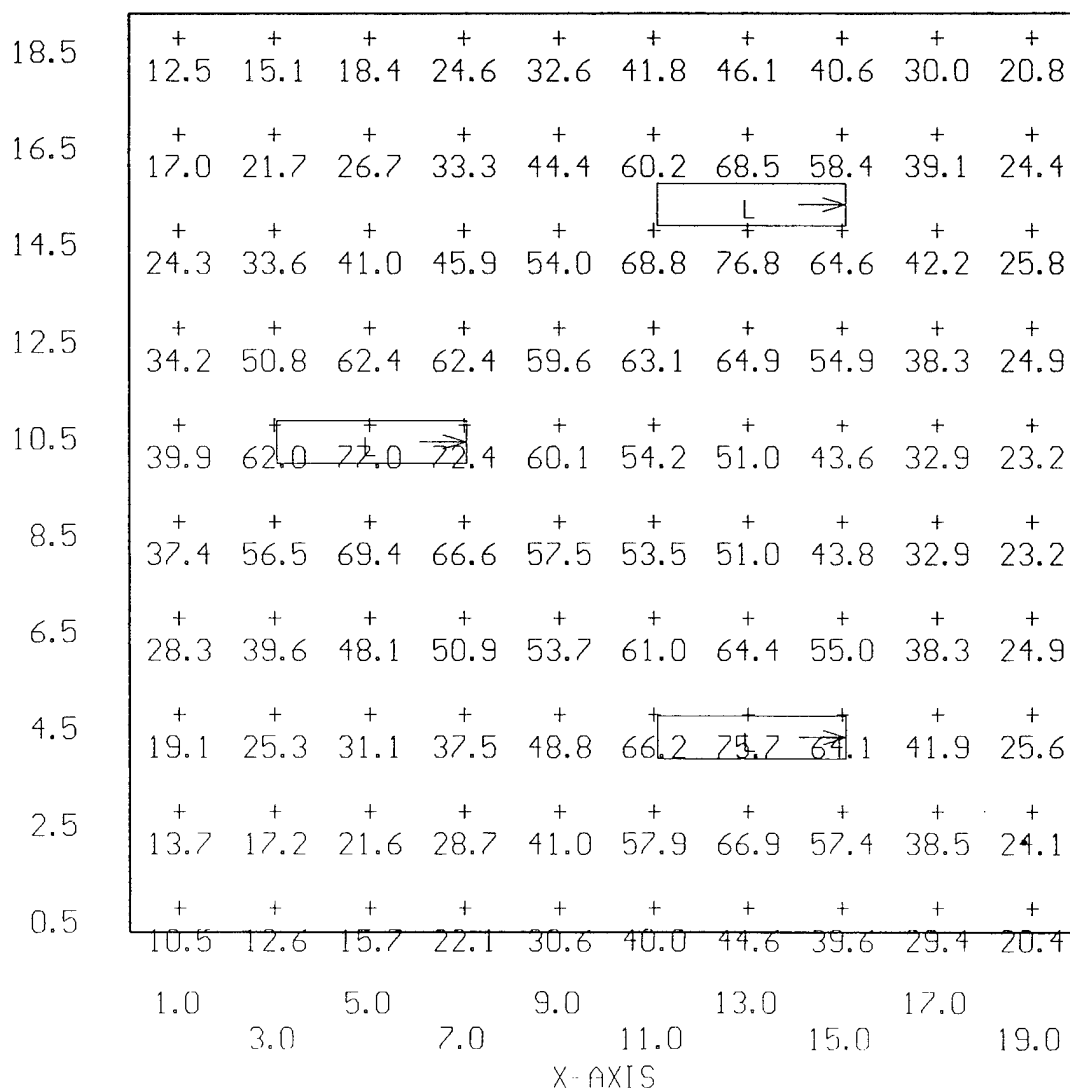


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:18 23-Dec-94
 PROJECT: 34-910 AREA: INST ENTRANCE GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=10.5 MAX=77.0 AVE=42.1 AVE/MIN= 4.03 MAX/MIN= 7.36

L <3> = 10368 COLUMBIA KL440-SOLID, <4> F40CW, LLF= 0.68

Y-AXIS

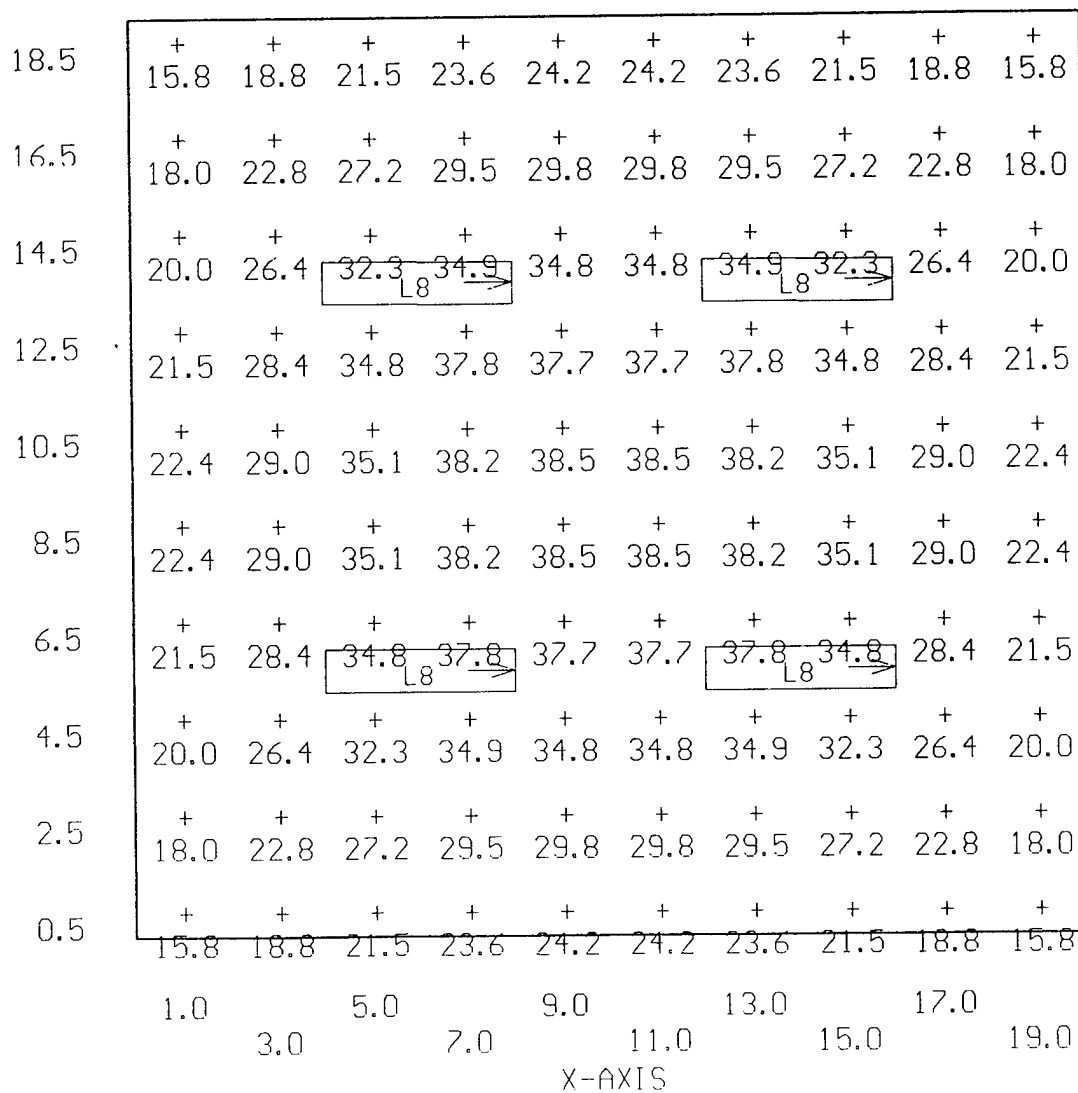


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:47 16-Mar-95
 PROJECT: 34-910A AREA: INST ENTRANCE-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=15.8 MAX=38.5 AVE=28.1 AVE/MIN= 1.78 MAX/MIN= 2.44

L8 <4> = 10331 COLUMBIA CSR240-PAF-EOCT, <2> F032/35K, LLF= 0.66

Y-AXIS

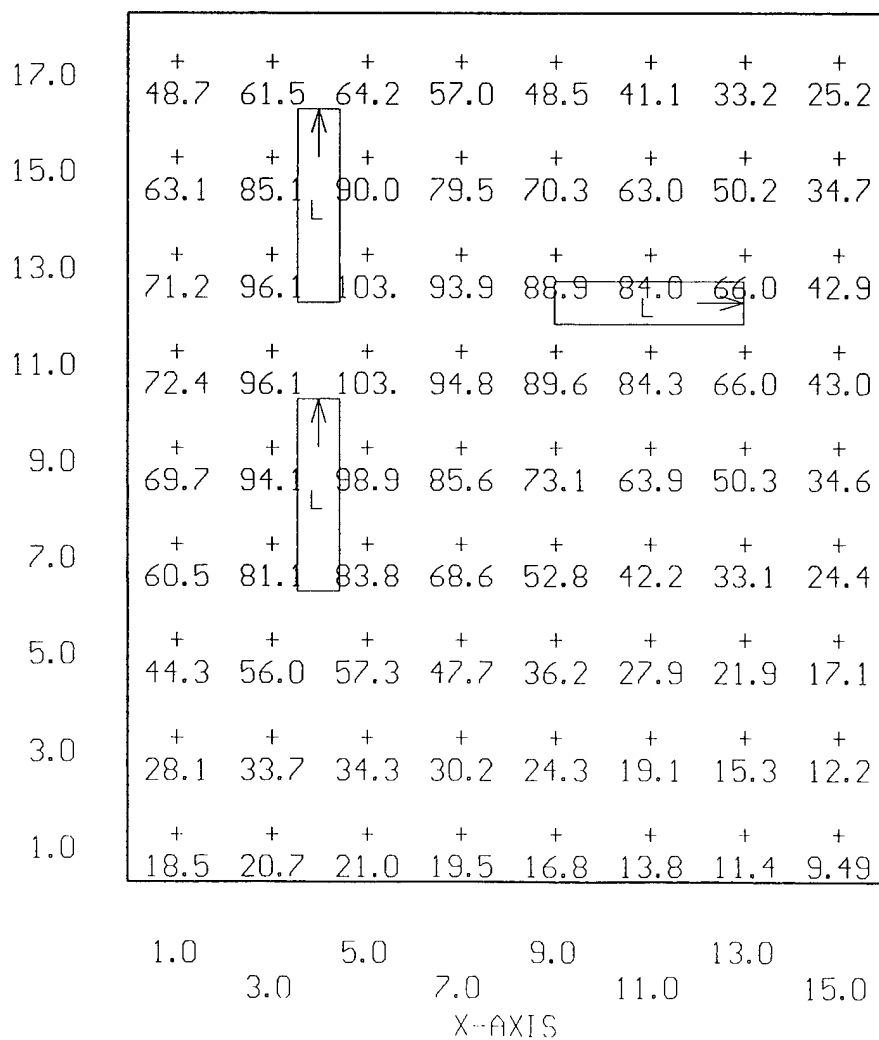


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 13:59 23-Dec-94
 PROJECT: 34-910 AREA: INST SHOP WORK GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=9.49 MAX=103. AVE=53.7 AVE/MIN= 5.65 MAX/MIN= 10.82

L <3> = 10368 COLUMBIA KL440-SOLID, <4> F40CW, LLF= 0.68

Y-AXIS



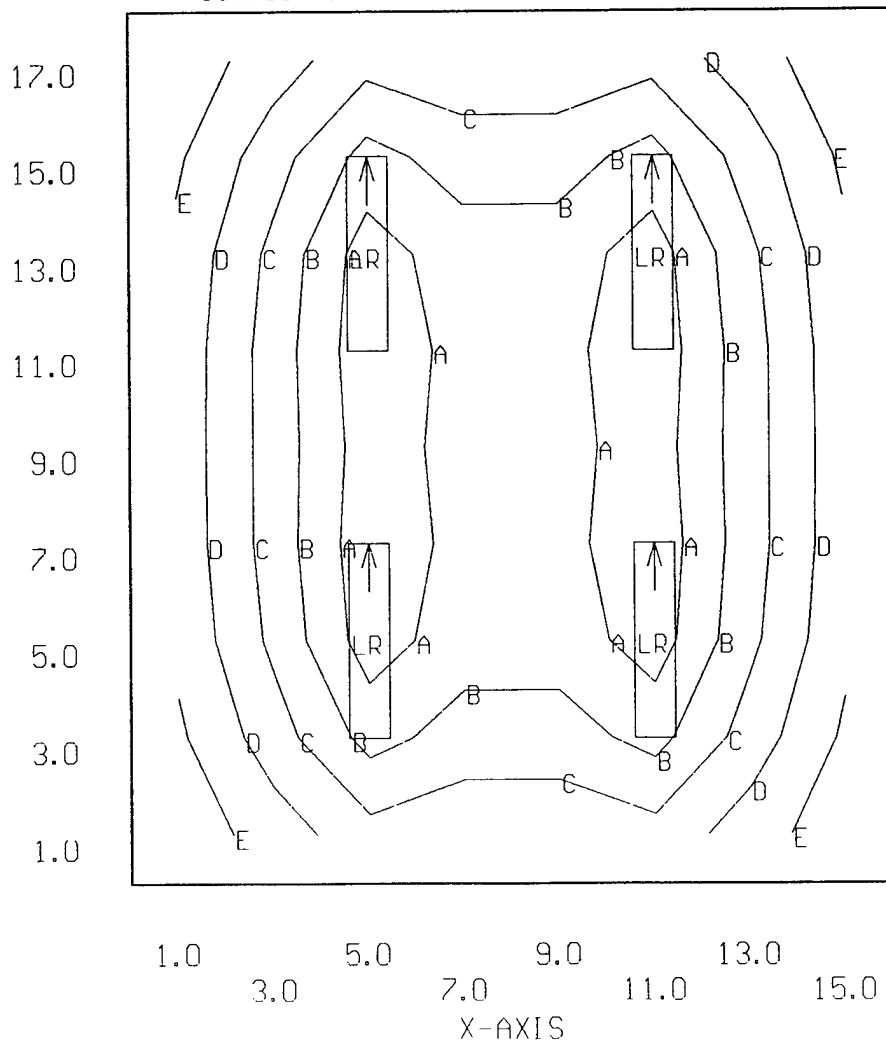
USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:52 16-Mar-95
 PROJECT: 34-910A AREA: INST SHP WORK-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=23.6 MAX=76.6 AVE=50.6 AVE/MIN= 2.15 MAX/MIN= 3.25

LR <4> = T11307 METALOPTICS ISS0FSFTTS042EP11, <2> F032/35K, LLF= 0.81

Y-AXIS

CONTOUR LEVELS: A= 70.0 B= 60.0 C= 50.0 D= 40.0 E= 30.0

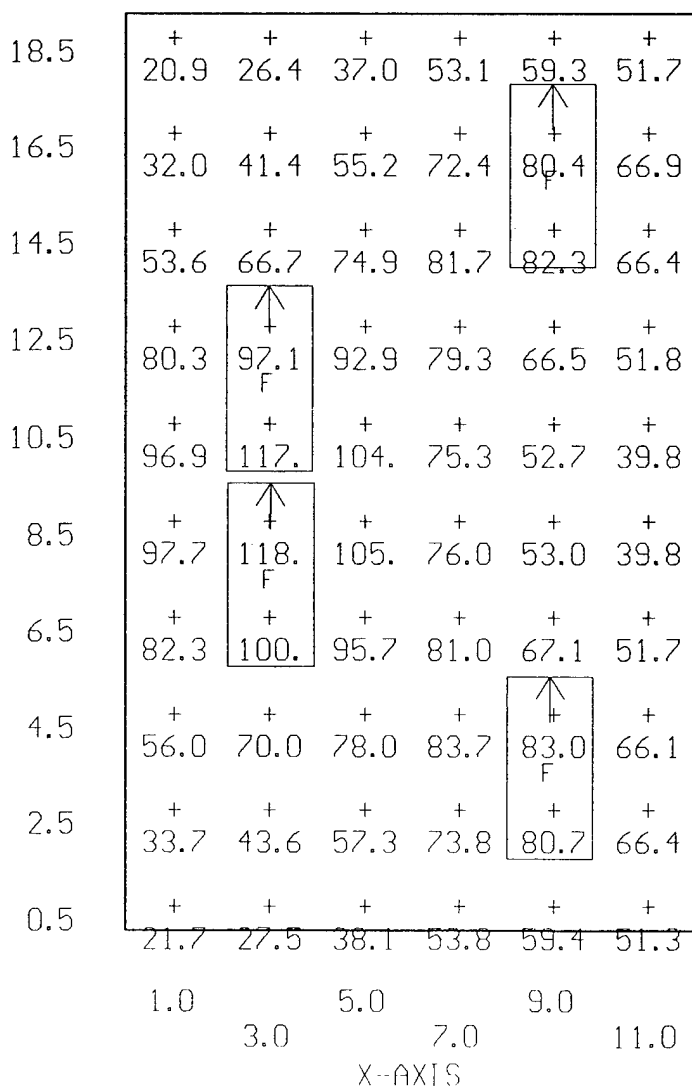


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:36 23-Dec-94
 PROJECT: 34-910 AREA: INST SHP OFFICE GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=20.9 MAX=118. AVE=66.5 AVE/MIN= 3.18 MAX/MIN= 5.67

F <4> = 9753 COLUMBIA 4PS2*-87-244, <4> F40CW, LLF= 0.68

Y-AXIS

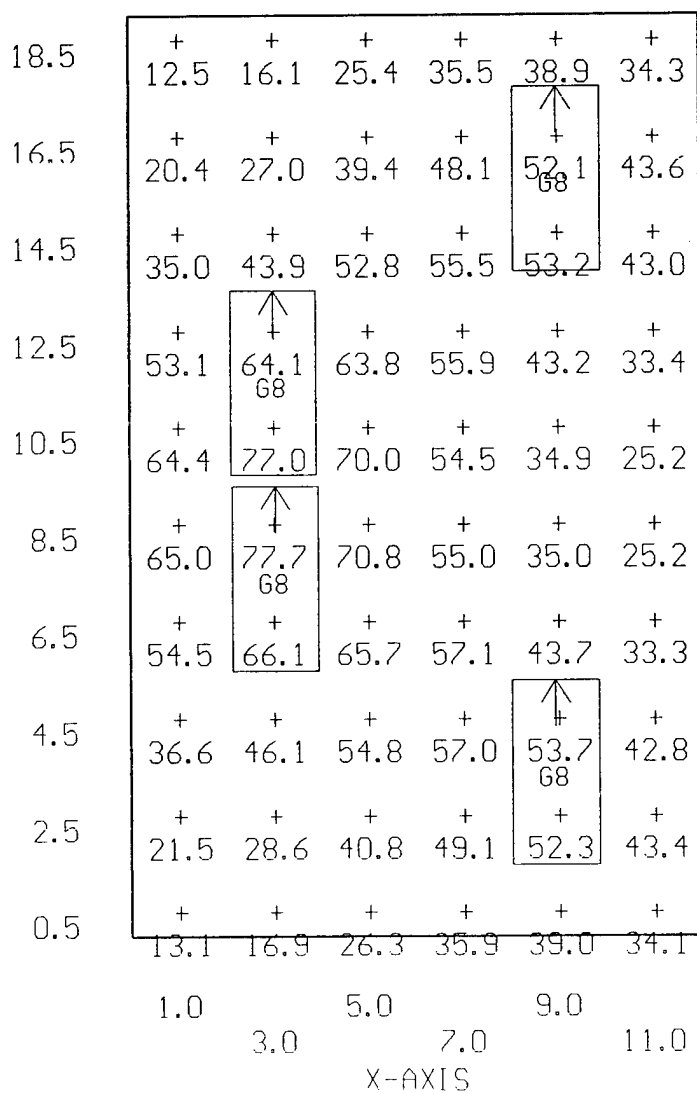


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:56 16-Mar-95
 PROJECT: 34-910A AREA: INST SHP OFC-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=12.5 MAX=77.7 AVE=44.3 AVE/MIN= 3.55 MAX/MIN= 6.22

G8 <4> = 9868 COLUMBIA T84PS2*-84-242-2EOCT, <2> F032/31K, LLF= 0.69

Y-AXIS

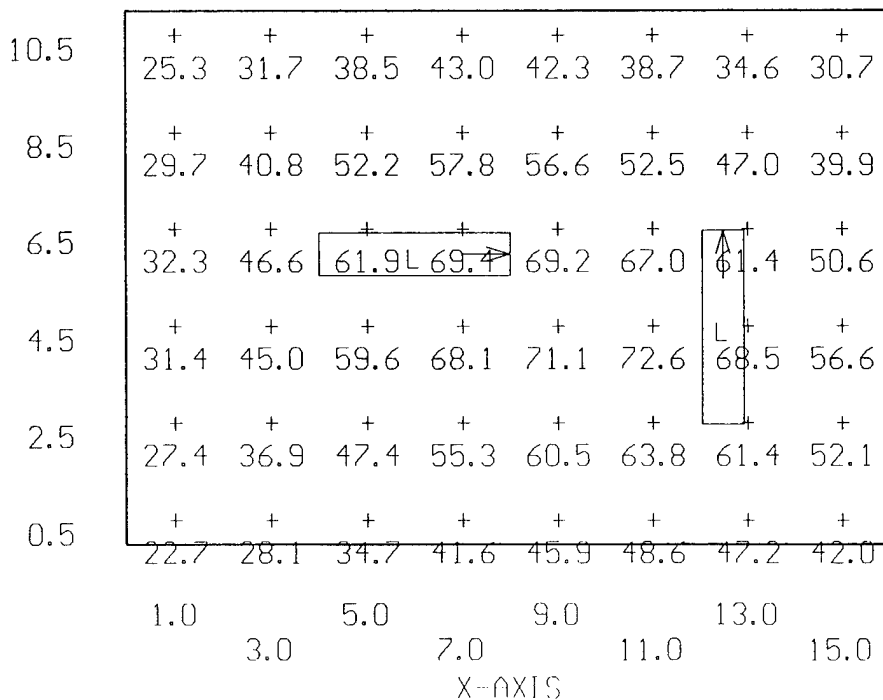


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:46 23-Dec-94
 PROJECT: 34-910 AREA: WASH AREA GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=22.7 MAX=72.6 AVE=48.1 AVE/MIN= 2.12 MAX/MIN= 3.20

L <2> = 10368 COLUMBIA KL440-SOLID, <4> F40CW, LLF= 0.68

Y-AXIS



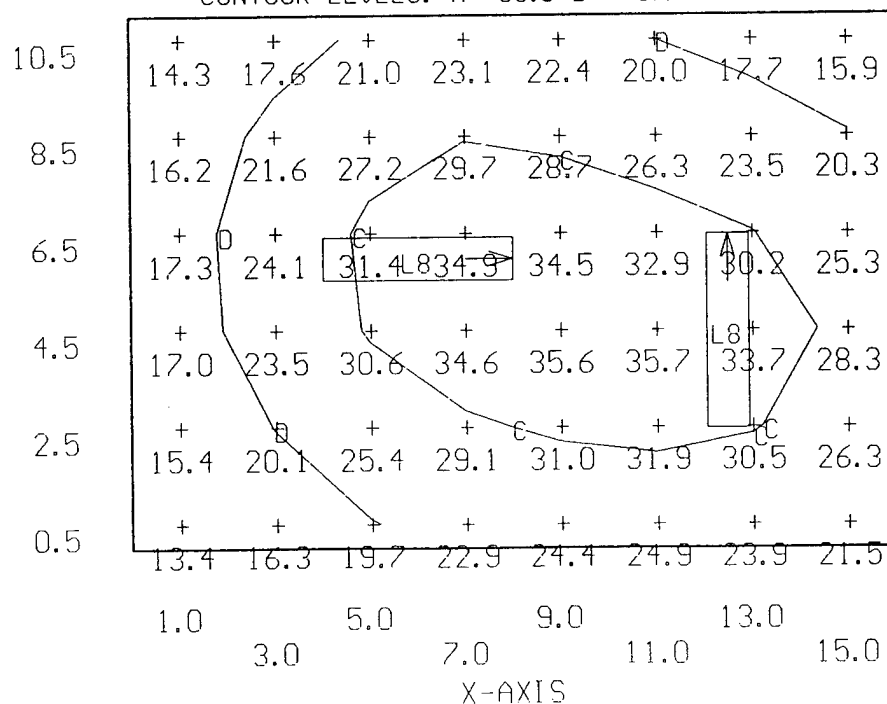
USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:59 16-Mar-95
 PROJECT: 34-910A AREA: WASH AREA-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=13.4 MAX=35.7 AVE=24.8 AVE/MIN= 1.85 MAX/MIN= 2.66

L8 <2> = 10331 COLUMBIA CSR240-PAF-EOCT, <2> F032/35K, LLF= 0.66

Y-AXIS

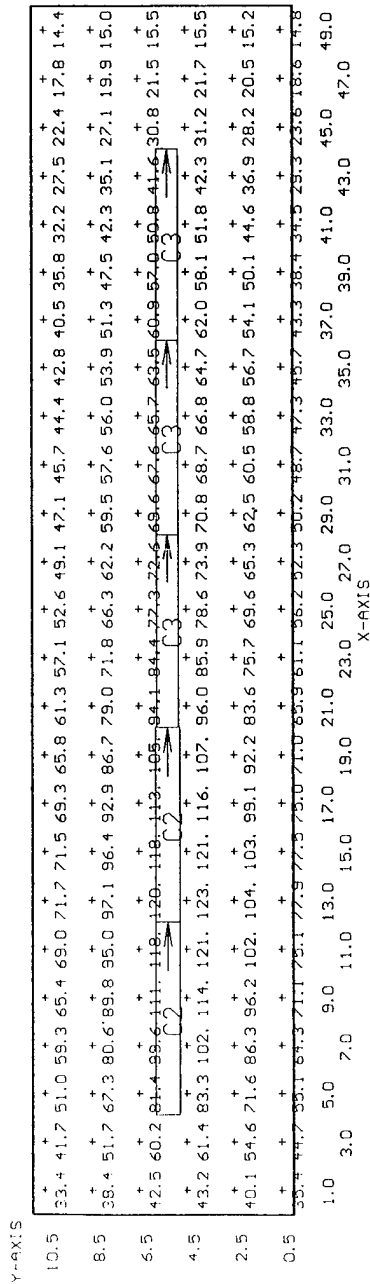
CONTOUR LEVELS: A= 50.0 B= 40.0 C= 30.0 D= 20.0 E= 10.0



US's LITE*PRO V2.27E Point-By-Point Numeric Output 09:45 28-Dec-94
 PROJECT: 34-910 AREA: MILLWRIGHT ENT1 GRID: Ceiling
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=14.4 MAX=123. AVE=62.4 AVE/MIN= 4.35 MAX/MIN= 8.55

C2 <2> = K7983M COLUMBIA KP496, <4> F96T12/CW/WM, LLF= 0.69
 C3 <3> = K7993 COLUMBIA CSR296, <2> F96T12/CW/WM, LLF= 0.69



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 15:05 16-Mar-95
 PROJECT: 34-910A AREA: MILLWRT ENT1-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 8.3FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=1C.7 MAX=38.3 AVE=25.2 AVE/MIN= 2.36 MAX/MIN= 3.58

C8 <3> = K7993 COLUMBIA CSR296, <2> F096/735, LLF= 0.66

Y-AXIS	X-AXIS																		
	1.0	3.0	5.0	7.0	11.0	13.0	15.0	17.0	19.0	21.0	23.0	25.0	27.0	29.0	31.0	33.0	35.0	37.0	41.0
10.5	10.7	13.1	16.3	19.9	23.0	24.8	25.6	24.6	23.7	23.9	25.3	27.0	27.7	27.0	25.3	23.9	23.7	24.6	25.5
8.5	10.7	13.9	18.5	23.8	28.6	31.2	31.0	28.8	26.9	27.2	29.7	32.6	33.9	32.6	29.7	27.2	26.9	28.8	31.3
6.5	10.9	14.5	19.9	26.7	32.7	35.7	35.0	31.8	29.1	29.4	34.7	36.6	36.6	32.7	29.4	29.1	31.8	35.3	38.7
4.5	10.9	14.5	19.9	26.7	32.7	35.7	35.0	31.8	29.1	29.4	34.7	36.6	36.6	32.7	29.4	29.1	31.8	35.3	38.7
2.5	10.7	13.9	18.5	23.8	28.6	31.2	31.0	28.8	26.9	27.2	29.7	32.6	33.9	32.6	29.7	27.2	26.9	28.8	31.3
0.5	10.7	13.1	16.3	19.9	23.0	24.8	25.6	24.6	23.7	23.9	25.3	27.0	27.7	27.0	25.3	23.9	23.7	24.6	25.5

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 10:32 28-Dec-94
 PROJECT: 34-910 AREA: MILLWRIGHT ENT2 GRID: Ceiling
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=11.1 MAX=106. AVE=52.4 AVE/MIN= 4.70 MAX/MIN= 9.51

C2 <2> = K7983M COLUMBIA KP496, <4> F96T12/CW/WM, LLF= 0.69

Y-AXIS

17.0	1.1	13.5	17.7	24.6	32.9	42.4	49.6	51.3	47.2	39.9	32.0
15.0	2.1	15.4	20.9	29.9	42.9	58.0	69.6	72.4	65.8	52.9	39.4
13.0	3.0	16.8	23.2	34.5	51.6	72.2	87.9	94.8	82.9	64.6	45.8
11.0	4.0	18.0	25.0	37.0	55.1	76.7	93.1	97.4	87.7	69.0	49.8
9.0	4.6	18.3	26.0	37.6	54.3	73.0	87.2	90.7	82.7	66.8	50.4
7.0	4.8	19.1	26.5	37.9	53.7	70.8	83.6	87.0	80.0	65.9	50.3
5.0	4.4	18.9	26.4	38.6	56.1	75.8	90.7	94.5	86.1	69.9	52.3
3.0	3.7	18.0	25.7	38.7	58.5	82.5	101.1	106.9	94.8	74.7	54.4
1.0	2.7	16.4	23.5	36.9	55.3	81.3	102.1	106.9	92.6	72.7	53.0

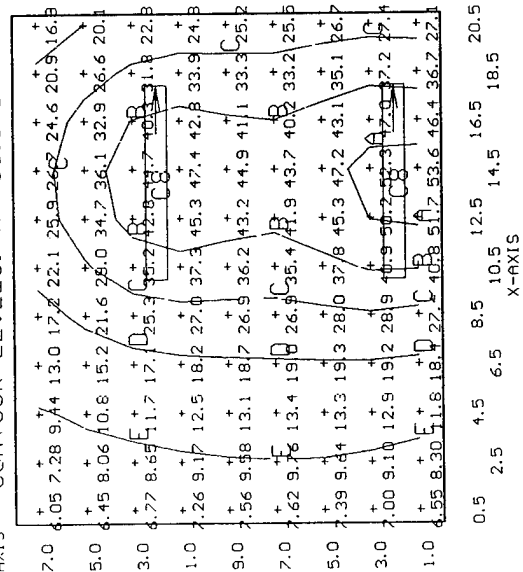
0.5 2.5 4.5 6.5 8.5 10.5 12.5 14.5 16.5 18.5 20.5
 X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 15:38 16-Mar-95
 PROJECT: 34-910A AREA: MILLWRT ENT2-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=6.05 MAX=53.6 AVE=26.2 AVE/MIN= 4.33 MAX/MIN= 8.85

C8 <2> = K7993 COLUMBIA CSR296, <2> F096/735, LLF= 0.66

Y-AXIS CONTOUR LEVELS: A= 50.0 B= 40.0 C= 30.0 D= 20.0 E= 10.0

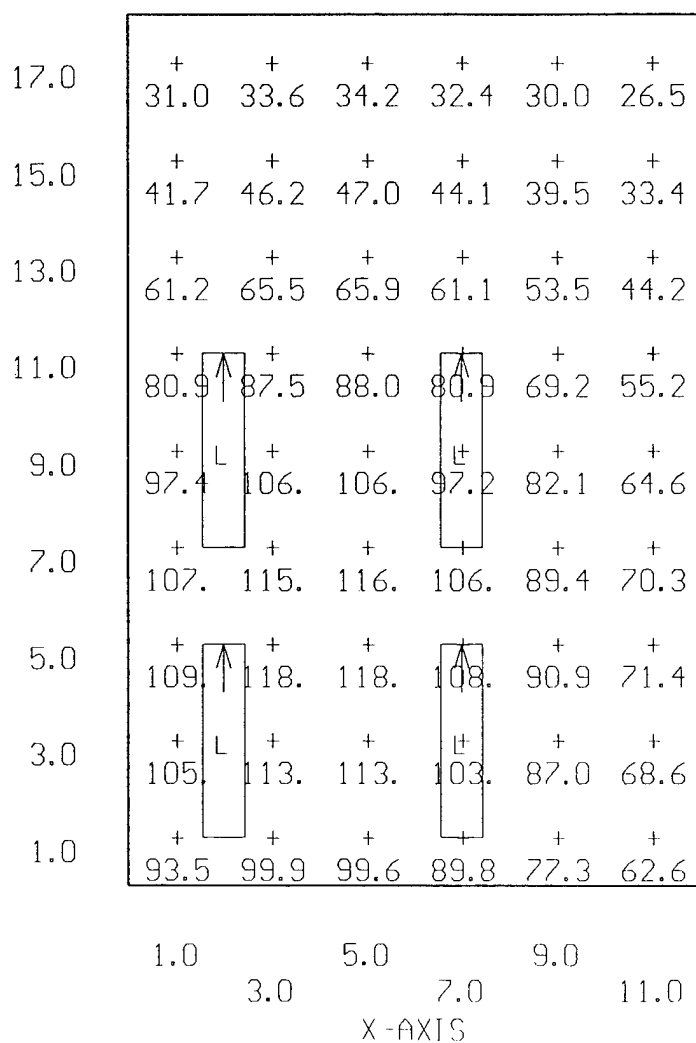


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 10:07 28-Dec-94
PROJECT: 34-910 AREA: MILLWRIGHT OFC GRID: Ceiling
Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
Computed in accordance with IES recommendations

+ MIN=26.5 MAX=118. AVE=76.6 AVE/MIN= 2.89 MAX/MIN= 4.45

L (4) = 10368 COLUMBIA KL440-SOLID, (4) F40CW, LLF= 0.68

Y-AXIS

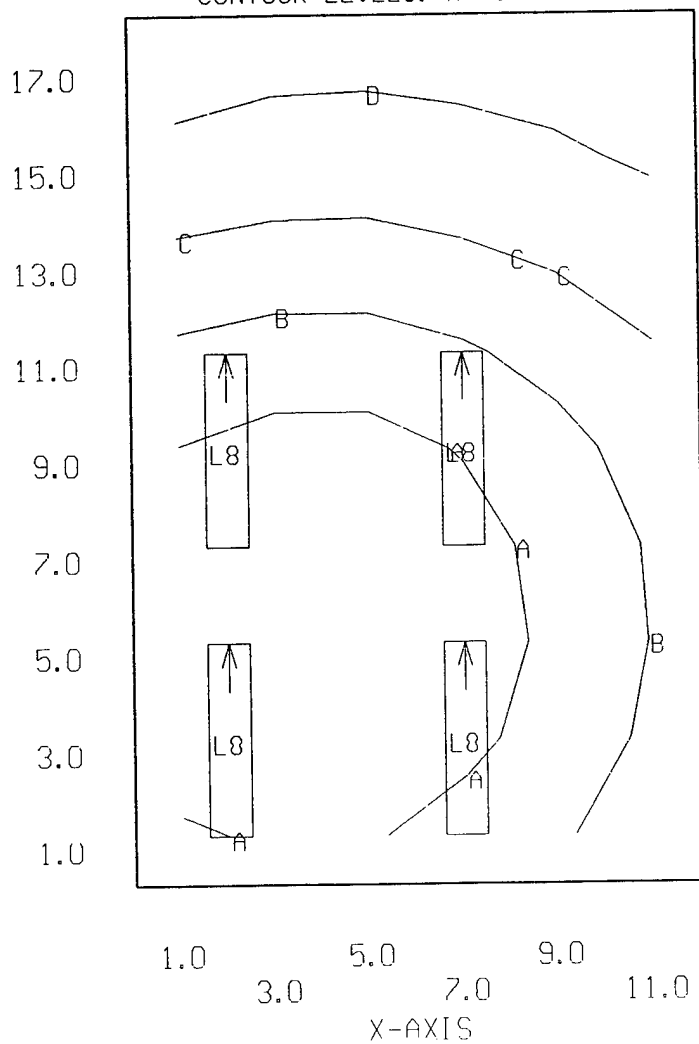


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 15:11 16-Mar-95
 PROJECT: 34-910A AREA: MILLWRT OFC-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=15.1 MAX=59.6 AVE=39.8 AVE/MIN= 2.64 MAX/MIN= 3.95

L8 <4> = 10331 COLUMBIA CSR240-PAF-EOCT, <2> F032/35K, LLF= 0.66

Y-AXIS CONTOUR LEVELS: A= 50.0 B= 40.0 C= 30.0 D= 20.0 E= 10.0

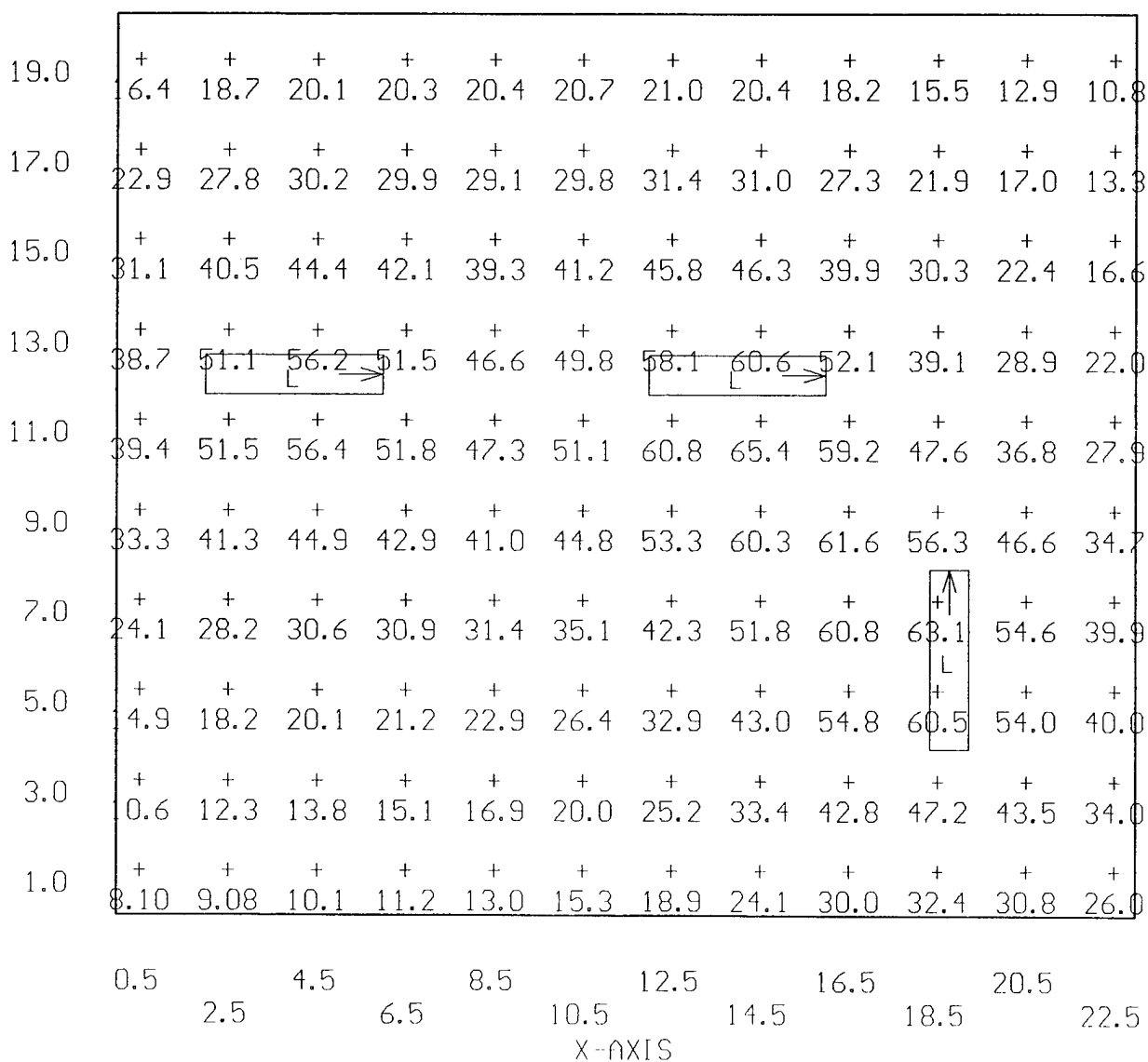


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 10:22 28-Dec-94
 PROJECT: 34-910 AREA: MILLWRIGHT ST0 GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=8.10 MAX=65.4 AVE=34.4 AVE/MIN= 4.24 MAX/MIN= 8.07

L <3> = 10368 COLUMBIA KL440-SOLID, <4> F40CW, LLF= 0.68

Y-AXIS

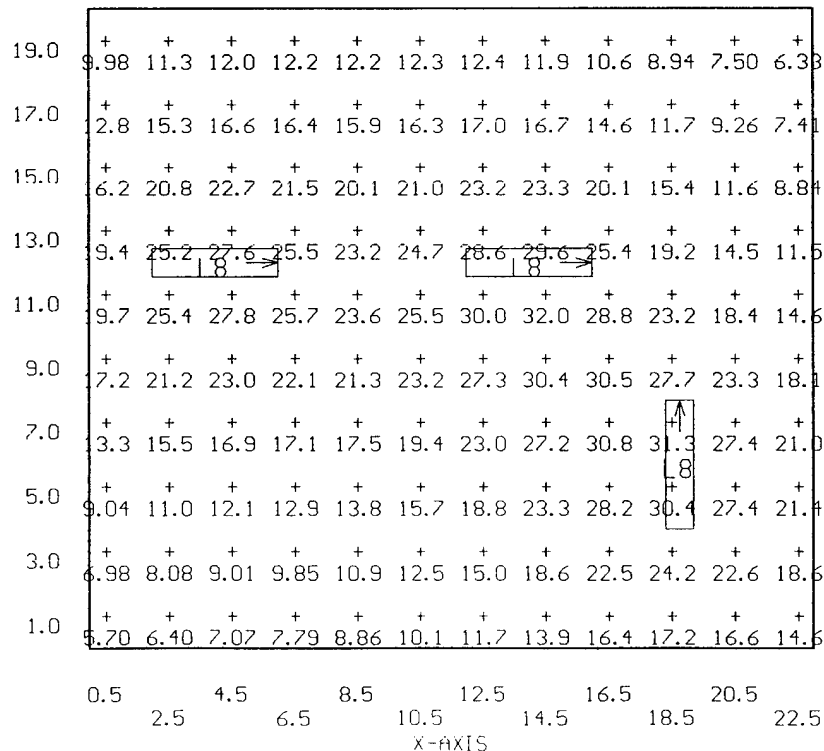


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 15:14 16-Mar-95
 PROJECT: 34-910A AREA: MILLWRT STO-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 6.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=5.70 MAX=32.0 AVE=18.1 AVE/MIN= 3.18 MAX/MIN= 5.61

L8 <3> = 10331 COLUMBIA CSR240-PAF-EOCT, <2> F032/35K, LLF= 0.66

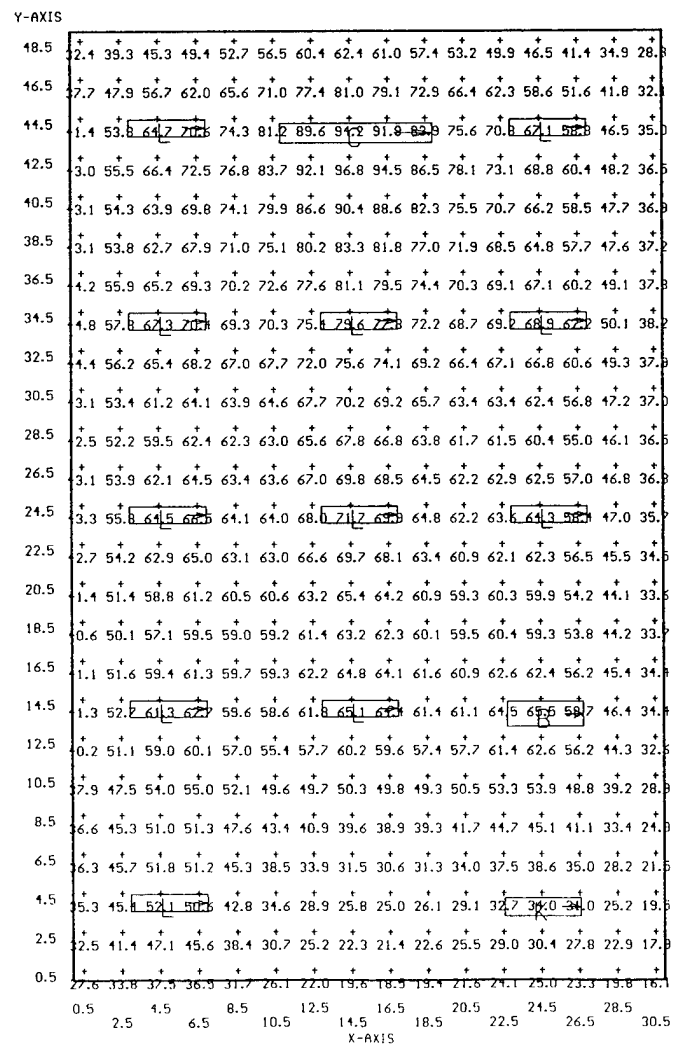
Y-AXIS



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 11:20 28-Dec-94
 PROJECT: 34-910 AREA: MILLWRIGHT SHP1 GRID: Ceiling
 Values are FC, SCALE: 1 IN= 10.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=16.1 MAX=96.8 AVE=54.6 AVE/MIN= 3.39 MAX/MIN= 6.01

B <1> = K9708 COLUMBIA WCW440-A, (4) F40CW, LLF= 0.68
 C <1> = K7983M COLUMBIA KP496, (4) F96T12/CW, LLF= 0.67
 K <1> = 7991 COLUMBIA CSR240-A, (2) F40CW, LLF= 0.68
 L <11> = 10368 COLUMBIA KL440-SOLID, (4) F40CW, LLF= 0.68

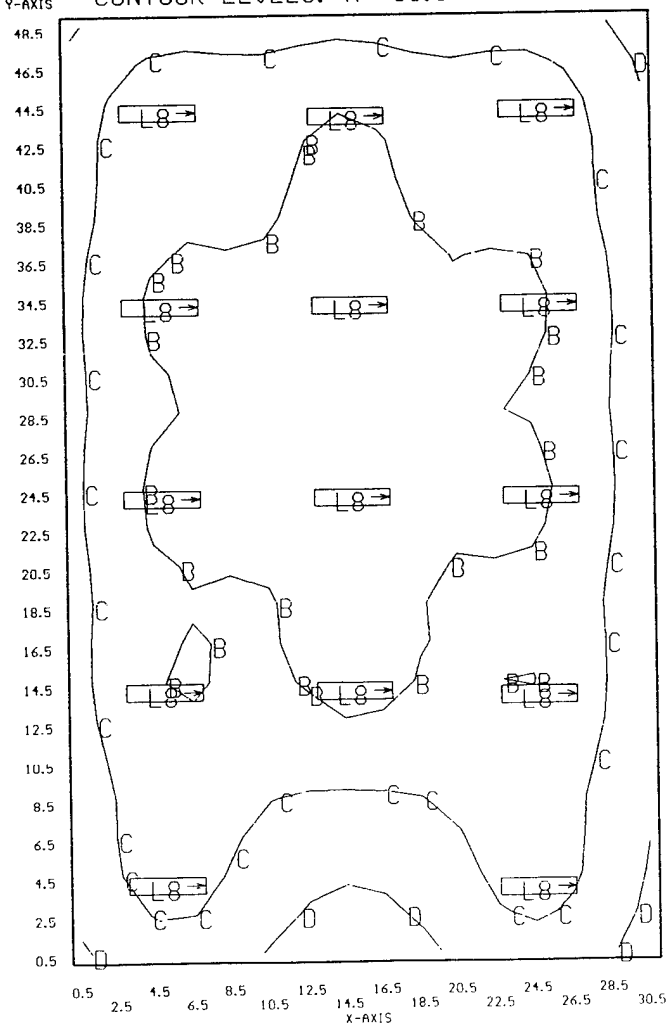


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 15:19 16-Mar-95
 PROJECT: 34-910A AREA: MILLWRT SHP1-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 10.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=16.3 MAX=46.3 AVE=34.0 AVE/MIN= 2.09 MAX/MIN= 2.84

L8 <14> = 10331 COLUMBIA CSR240-PAF-E0CT, (2) F032/35K, LLF= 0.81

Y-AXIS CONTOUR LEVELS: A= 50.0 B= 40.0 C= 30.0 D= 20.0 E= 10.0



US1's LITE*PRO V2.27E Point-By-Point Numeric Output 11:50 28-Dec-94
PROJECT: 34-910-1 AREA: MILLWRIGHT SHP2 GRID: Ceiling
Values are FC, SCALE: 1 IN= 10.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
Computed in accordance with IES recommendations

-	MIN=16.0	MAX=79.5	AVE=40.3	AVE/MIN=	2.52	MAX/MIN=	4.97

$\Gamma_{\langle 3 \rangle} = 10368$ COLUMBIA KL440-SOLID, $\langle 4 \rangle$ F40WW, LLF= 0.68
 $\Gamma_{\langle 2 \rangle} = 6E6919$ GE LIGHTING SAM15S, $\langle 1 \rangle$ LU-150, LLF= 0.82

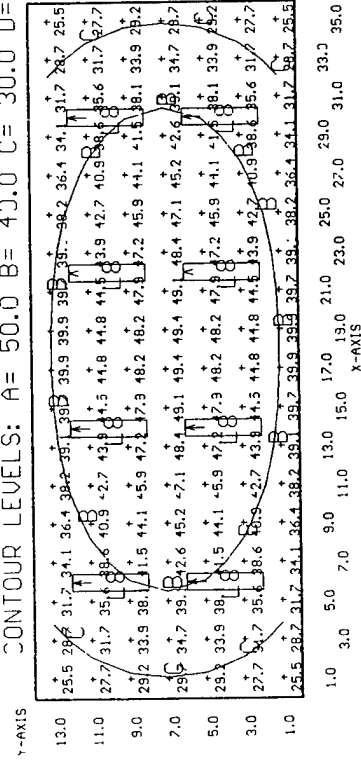
[illegible]

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 15:28 16-Mar-95
 PROJECT: 34-910-1 AREA: MILLWRT SHP2-N GRID: Ceiling
 Values are FC, SCALE: : IN= 10.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

-- MIN=25.5 MAX=49.4 AVE=39.1 AVE/MIN= 1.53 MAX/MIN= 1.93

L8 <8> = 10331 COLUMBIA CSR240-PAF-EJCT, <2> F032/35K, L_F= 0.69

CONTOUR LEVELS: A= 50.0 B= 43.0 C= 30.0 D= 20.0 E= 10.0



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 12:00 28-Dec-94
 PROJECT: 34-910-1 AREA: TOOL & DIE LUNC GRID: Ceiling
 Values are FC, SCALE: 1 IN= 10.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=28.1 MAX=67.6 AVE=50.7 AVE/MIN= 1.81 MAX/MIN= 2.41

F <12> = 9753 COLUMBIA 4PS2*-87-244, (4) F40CW, LLF= 0.68

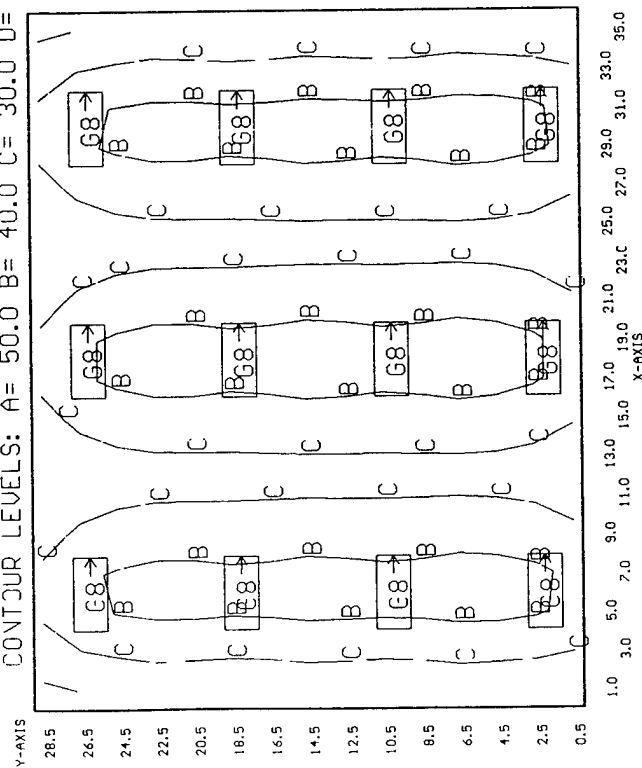
28.5	28.1	39.7	49.1	49.9	42.1	34.4	34.5	42.0	49.7	49.7	42.0	34.5	34.4	42.1	49.9	49.1	39.7	28.1
24.5	31.3	46.8	60.0	60.0	50.2	40.1	40.1	50.4	61.1	61.1	50.4	40.1	40.1	50.2	60.0	60.0	46.8	31.3
20.5	32.3	48.1	61.2	62.3	52.1	42.1	42.2	52.5	63.1	63.1	52.5	42.2	42.1	52.1	62.3	61.2	48.1	32.3
22.5	32.2	47.2	59.3	60.5	51.5	42.3	42.4	52.0	61.6	61.6	52.0	42.4	42.3	51.5	60.5	59.3	47.2	32.2
20.5	32.8	48.2	60.9	62.1	52.7	43.1	43.3	53.3	63.3	63.3	53.3	43.3	43.1	52.7	62.1	60.9	48.2	32.8
18.5	33.8	50.4	64.4	65.8	54.8	44.3	44.5	55.5	67.1	67.1	55.5	44.5	44.3	54.8	65.8	64.4	50.4	33.8
16.5	33.6	49.8	63.2	64.4	54.3	44.2	44.4	54.9	65.8	65.8	54.9	44.4	44.2	54.3	64.4	63.2	49.8	33.6
14.5	32.9	48.1	60.3	61.6	52.7	43.4	43.6	53.3	62.9	62.9	53.3	43.6	43.4	52.7	61.6	60.3	48.1	32.9
12.5	33.3	48.9	61.6	62.8	53.4	43.8	44.0	54.0	64.1	64.1	54.0	44.0	43.8	53.4	62.8	61.6	48.9	33.3
10.5	34.3	51.0	65.1	66.5	55.3	44.8	45.0	55.9	67.6	67.6	55.9	45.0	44.8	55.3	66.5	65.1	51.0	34.3
8.5	34.2	50.3	63.6	64.8	54.5	44.5	44.7	55.1	65.9	65.9	55.1	44.7	44.5	54.6	64.8	63.6	50.3	34.2
6.5	33.5	48.6	60.7	61.8	52.8	43.4	43.5	53.1	62.6	62.6	53.1	43.5	43.4	52.8	61.8	60.7	48.6	33.5
4.5	33.7	49.2	61.7	62.7	53.1	43.3	43.3	53.1	63.0	63.0	53.1	43.3	43.3	53.1	62.7	61.7	49.2	33.7
2.5	34.2	50.5	64.4	65.8	53.8	43.0	42.9	53.4	64.4	64.4	53.4	42.9	43.0	53.8	65.8	64.4	50.5	34.2
0.5	33.3	47.4	58.9	59.7	49.1	39.3	39.3	48.4	58.0	58.0	48.4	39.3	39.3	48.4	59.7	58.9	47.4	33.3
	1.0	3.0	5.0	7.0	9.0	11.0	13.0	15.0	17.0	19.0	21.0	23.0	25.0	27.0	29.0	31.0	33.0	35.0
																		X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 15:33 16-Mar-95
 PROJEC: 34-910-1 AREA: TOOL DIE LUNC-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 10.0FT, FORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=18.3 MAX=43.5 AVE=33.6 AVE/MIN= 1.84 MAX/MIN= 2.38

G8 <2> = 9868 COLUMBIA -84PS2*-84-242-2E0CT, <2> F032/31K, LLF= 0.69

CONTOUR LEVELS: A= 50.0 B= 40.0 C= 30.0 D= 20.0 E= 10.0



USI's LITE*PRO V2.27E Point-Buy-Point Numeric Output 10:57 29-Dec-94
 PROJECT: 34-910-1 AREA: TOOL & DIE 1 GRID: Ceiling
 Values are FC, SCALE: 1 IN= 16.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=62.6 MAX=215. AVE=153. AVE/MIN= 2.45 MAX/MIN= 3.44

C <47> = K7983M COLUMBIA KP496, <4> F96T12/CW, LLF= 0.67

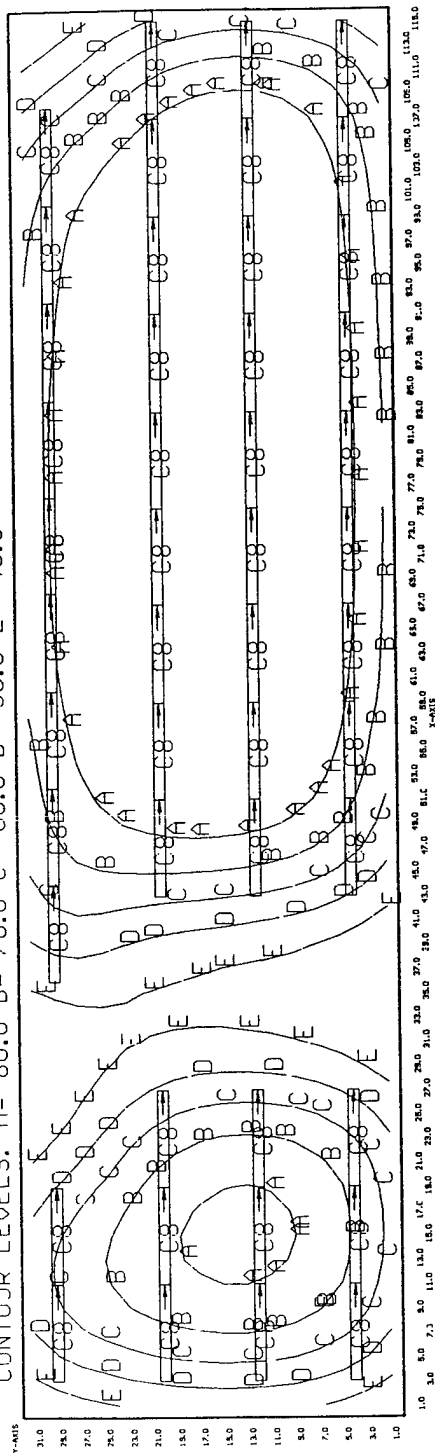
18.7	82.0	84.4	108	111	114	116	118	120	122	82.3	74.7	68.1	64.9	64.0	72.8	83.9	93.7	104	114	122	128	136	138	141	143	145	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280	1281	1282	1283	1284	1285	1286	1287	1288	1289	1290	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330	1331	1332	1333	1334	1335	1336	1337	1338	1339	1340	1341	1342	1343	1344	1345	1346	1347	1348	1349	1350	1351	1352	1353	1354	1355	1356	1357	1358	1359	1360	1361	1362	1363	1364	1365	1366	1367	1368	1369	1370	1371	1372	1373	1374	1375	1376	1377	1378	1379	1380	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390	1391	1392	1393	1394	1395	1396	1397	1398	1399	1400	1401	1402	1403	1404	1405	1406	1407	1408	1409	1410	1411	1412	1413	1414	1415	1416	1417	1418	1419	1420	1421	1422	1423	1424	1425	1426	1427	1428	1429	1430	1431	1432	1433	1434	1435	1436	1437	1438	1439	1440	1441	1442	1443	1444	1445	1446	1447	1448	1449	1450	1451	1452	1453	1454	1455	1456	1457	1458	1459	1460	1461	1462	1463	1464	1465	1466	1467	1468	1469	1470	1471	1472	1473	1474	1475	1476	1477	1478	1479	1480	1481	1482	1483	1484	1485	1486	1487	1488	1489	1490	1491	1492	1493	1494	1495	1496	1497	1498	1499	1500	1501	1502	1503	1504	1505	1506	1507	1508	1509	1510	1511	1512	1513	1514	1515	1516	1517	1518	1519	1520	1521	1522	1523	1524	1525	1526	1527	1528	1529	1530	1531	1532	1533	1534	1535	1536	1537	1538	1539

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 15:41 16-Mar-95
 PROJECT: 34-910-1 AREA: TOOL & DIE 1-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 16.0-T, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=29.3 MAX=99.7 AVE=71.6 AVE/MIN= 2.4 MAX/MIN= 3.40

C8 <47> = K79S3 COLUMBIA CSR296, (2) F096/735, LLF= 0.67

CONTOJR LEVELS: A= 80.0 B= 70.0 C= 60.0 D= 50.0 E= 40.0



+ MIN=29.9	MAX=229.	AVE=147.	AVE/MIN=	4.90	MAX/MIN=	7.65

Values are FC, SCALE: 1 IN= 16.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
Computed in accordance with IES recommendations

Computed in accordance with IES recommendations

+ MIN=29.9 MAX=229.

C <67> = K7983M COLUMBIA KP496, (4) F96T12/CW, LLF= 0.67

45.0	75.0	80.0	85.0	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0	180.0	185.0	190.0	195.0	200.0	205.0	210.0	215.0	220.0	225.0	230.0	235.0	240.0	245.0	250.0	255.0	260.0	265.0	270.0	275.0	280.0	285.0	290.0	295.0	300.0	305.0	310.0	315.0	320.0	325.0	330.0	335.0	340.0	345.0	350.0	355.0	360.0	365.0	370.0	375.0	380.0	385.0	390.0	395.0	400.0	405.0	410.0	415.0	420.0	425.0	430.0	435.0	440.0	445.0	450.0	455.0	460.0	465.0	470.0	475.0	480.0	485.0	490.0	495.0	500.0	505.0	510.0	515.0	520.0	525.0	530.0	535.0	540.0	545.0	550.0	555.0	560.0	565.0	570.0	575.0	580.0	585.0	590.0	595.0	600.0	605.0	610.0	615.0	620.0	625.0	630.0	635.0	640.0	645.0	650.0	655.0	660.0	665.0	670.0	675.0	680.0	685.0	690.0	695.0	700.0	705.0	710.0	715.0	720.0	725.0	730.0	735.0	740.0	745.0	750.0	755.0	760.0	765.0	770.0	775.0	780.0	785.0	790.0	795.0	800.0	805.0	810.0	815.0	820.0	825.0	830.0	835.0	840.0	845.0	850.0	855.0	860.0	865.0	870.0	875.0	880.0	885.0	890.0	895.0	900.0	905.0	910.0	915.0	920.0	925.0	930.0	935.0	940.0	945.0	950.0	955.0	960.0	965.0	970.0	975.0	980.0	985.0	990.0	995.0	1000.0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0	90.0	91.0	92.0	93.0	94.0	95.0	96.0	97.0	98.0	99.0	100.0	101.0	102.0	103.0	104.0	105.0	106.0	107.0	108.0	109.0	110.0	111.0	112.0	113.0	114.0	115.0	116.0	117.0	118.0	119.0	120.0	121.0	122.0	123.0	124.0	125.0	126.0	127.0	128.0	129.0	130.0	131.0	132.0	133.0	134.0	135.0	136.0	137.0	138.0	139.0	140.0	141.0	142.0	143.0	144.0	145.0	146.0	147.0	148.0	149.0	150.0	151.0	152.0	153.0	154.0	155.0	156.0	157.0	158.0	159.0	160.0	161.0	162.0	163.0	164.0	165.0	166.0	167.0	168.0	169.0	170.0	171.0	172.0	173.0	174.0	175.0	176.0	177.0	178.0	179.0	180.0	181.0	182.0	183.0	184.0	185.0	186.0	187.0	188.0	189.0	190.0	191.0	192.0	193.0	194.0	195.0	196.0	197.0	198.0	199.0	200.0	201.0	202.0	203.0	204.0	205.0	206.0	207.0	208.0	209.0	210.0	211.0	212.0	213.0	214.0	215.0	216.0	217.0	218.0	219.0	220.0	221.0	222.0	223.0	224.0	225.0	226.0	227.0	228.0	229.0	230.0	231.0	232.0	233.0	234.0	235.0	236.0	237.0	238.0	239.0	240.0	241.0	242.0	243.0	244.0	245.0	246.0	247.0	248.0	249.0	250.0	251.0	252.0	253.0	254.0	255.0	256.0	257.0	258.0	259.0	260.0	261.0	262.0	263.0	264.0	265.0	266.0	267.0	268.0	269.0	270.0	271.0	272.0	273.0	274.0	275.0	276.0	277.0	278.0	279.0	280.0	281.0	282.0	283.0	284.0	285.0	286.0	287.0	288.0	289.0	290.0	291.0	292.0	293.0	294.0	295.0	296.0	297.0	298.0	299.0	300.0	301.0	302.0	303.0	304.0	305.0	306.0	307.0	308.0	309.0	310.0	311.0	312.0	313.0	314.0	315.0	316.0	317.0	318.0	319.0	320.0	321.0	322.0	323.0	324.0	325.0	326.0	327.0	328.0	329.0	330.0	331.0	332.0	333.0	334.0	335.0	336.0	337.0	338.0	339.0	340.0	341.0	342.0	343.0	344.0	345.0	346.0	347.0	348.0	349.0	350.0	351.0	352.0	353.0	354.0	355.0	356.0	357.0	358.0	359.0	360.0	361.0	362.0	363.0	364.0	365.0	366.0	367.0	368.0	369.0	370.0	371.0	372.0	373.0	374.0	375.0	376.0	377.0	378.0	379.0	380.0	381.0	382.0	383.0	384.0	385.0	386.0	387.0	388.0	389.0	390.0	391.0	392.0	393.0	394.0	395.0	396.0	397.0	398.0	399.0	400.0	401.0	402.0	403.0	404.0	405.0	406.0	407.0	408.0	409.0	410.0	411.0	412.0	413.0	414.0	415.0	416.0	417.0	418.0	419.0	420.0	421.0	422.0	423.0	424.0	425.0	426.0	427.0	428.0	429.0	430.0	431.0	432.0	433.0	434.0	435.0	436.0	437.0	438.0	439.0	440.0	441.0	442.0	443.0	444.0	445.0	446.0	447.0	448.0	449.0	450.0	451.0	452.0	453.0	454.0	455.0	456.0	457.0	458.0	459.0	460.0	461.0	462.0	463.0	464.0	465.0	466.0	467.0	468.0	469.0	470.0	471.0	472.0	473.0	474.0	475.0	476.0	477.0	478.0	479.0	480.0	481.0	482.0	483.0	484.0	485.0	486.0	487.0	488.0	489.0	490.0	491.0	492.0	493.0	494.0	495.0	496.0	497.0	498.0	499.0	500.0	501.0	502.0	503.0	504.0	505.0	506.0	507.0	508.0	509.0	510.0	511.0	512.0	513.0	514.0	515.0	516.0	517.0	518.0	519.0	520.0	521.0	522.0	523.0	524.0	525.0	526.0	527.0	528.0	529.0	530.0	531.0	532.0	533.0	534.0	535.0	536.0	537.0	538.0	539.0	540.0	541.0	542.0	543.0	544.0	545.0	546.0	547.0	548.0	549.0	550.0	551.0	552.0	553.0	554.0	555.0	556.0	557.0	558.0	559.0	560.0	561.0	562.0	563.0	564.0	565.0	566.0	567.0	568.0	569.0	570.0	571.0	572.0	573.0	574.0	575.0	576.0	577.0	578.0	579.0	580.0	581.0	582.0	583.0	584.0	585.0	586.0	587.0	588.0	589.0	590.0	591.0	592.0	593.0	594.0	595.0	596.0	597.0	598.0	599.0	600.0	601.0	602.0	603.0	604.0	605.0	606.0	607.0	608.0	609.0	610.0	611.0	612.0	613.0	614.0	615.0	616.0	617.0	618.0	619.0	620.0	621.0	622.0	623.0	624.0	625.0	626.0	627.0	628.0	629.0	630.0	631.0	632.0	633.0	634.0	635.0	636.0	637.0	638.0	639.0	640.0	641.0	642.0	643.0	644.0	645.0	646.0	647.0	648.0	649.0	650.0	651.0	652.0	653.0	654.0	655.0	656.0	657.0	658.0	659.0	660.0	661.0	662.0	663.0	664.0	665.0	666.0	667.0	668.0	669.0	670.0	671.0	672.0	673.0	674.0	675.0	676.0	677.0	678.0	679.0	680.0	681.0	682.0	683.0	684.0	685.0	686.0	687.0	688.0	689.0	690.0	691.0	692.0	693.0	694.0	695.0	696.0	697.0	698.0	699.0	700.0	701.0	702.0	703.0	704.0	705.0	706.0	707.0	708.0	709.0	710.0	711.0	712.0	713.0	714.0	715.0	716.0	717.0	718.0	719.0	720.0	721.0	722.0	723.0	724.0	725.0	726.0	727.0	728.0	729.0	730.0	731.0	732.0	733.0	734.0	735.0	736.0	737.0	738.0	739.0	740.0	741.0	742.0	743.0	744.0	745.0	746.0	747.0	748.0	749.0	750.0	751.0	752.0	753.0	754.0	755.0	756.0	757.0	758.0	759.0	760.0	761.0	762.0	763.0	764.0	765.0	766.0	767.0	768.0	769.0	770.0	771.0	772.0	773.0	774.0	775.0	776.0	777.0	778.0	779.0	780.0	781.0	782.0	783.0	784.0	785.0	786.0	787.0	788.0	789.0	790.0	791.0	792.0	793.0	794.0	795.0	796.0	797.0	798.0	799.0	800.0	801.0	802.0	803.0	804.0	805.0	806.0	807.0	808.0	809.0	810.0	811.0	812.0	813.0	814.0	815.0	816.0	817.0	818.0	819.0	820.0	821.0	822.0	823.0	824.0	825.0	826.0	827.0	828.0	829.0	830.0	831.0	832.0	833.0	834.0	835.0	836.0	837.0	838.0	839.0	840.0	841.0	842.0	843.0	844.0	845.0	846.0	847.0	848.0	849.0	850.0	851.0	852.0	853.0	854.0	855.0	856.0	857.0	858.0	859.0	860.0	861.0	862.0	863.0	864.0	865.0	866.0	867.0	868.0	869.0	870.0	871.0	872.0	873.0	874.0	875.0	876.0	877.0	878.0	879.0	880.0	881.0	882.0	883.0	884.0	885.0	886.0	887.0	888.0	889.0	890.0	891.0	892.0	893.0	894.0	895.0	896.0	897.0	898.0	899.0	900.0	901.0	902.0	903.0	904.0	905.0	906.0	907.0	908.0	909.0	910.0	911.0	912.0	913.0	914.0	915.0	916.0	917.0	918.0	919.0	920.0	921.0	922.0	923.0	924.0	925.0	926.0	927.0	928.0	929.0	930.0	931.0	932.0	933.0	934.0	935.0	936.0	937.0	938.0	939.0	940.0	941.0	942.0	943.0	944.0	945.0	946.0	947.0	948.0	949.0	950.0	951.0	952.0	953.0	954.0	955.0	956.0	957.0	958.0	959.0	960.0	961.0	962.0	963.0	964.0	965.0	966.0	967.0	968.0	969.0	970.0	971.0	972.0	973.0	974.0	975.0	976.0	977.0	978.0	979.0	980.0	981.0	982.0	983.0	984.0	985.0	986.0	987.0	988.0	989.0	990.0	991.0	992.0	993.0	994.0	995.0	996.0	997.0	998.0	999.0	1000.0

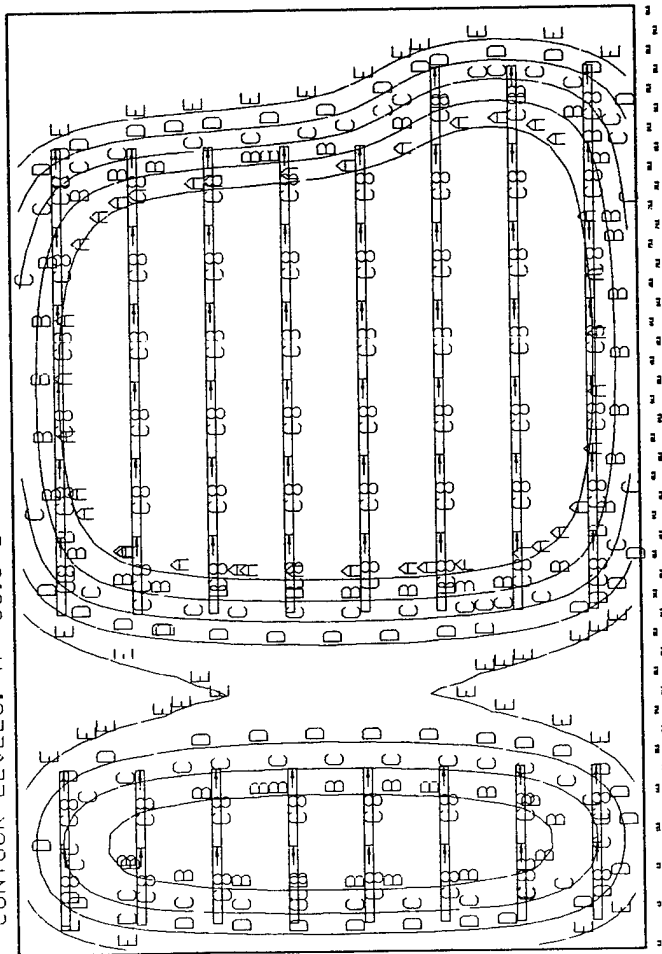
Y-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 15:48 16-Mar-95
 PROJECT: 34-910-1 AREA: TOOL & DIE 2-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 20.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

- MIN=13.4 MAX=106. AVE=67.8 AVE/MIN= 5.05 MAX/MIN= 7.92

C8 <67> = K7993 COLUMBIA CSR296, <2> F096/735, LLF= 0.67

CONTOUR LEVELS: A= 80.0 B= 70.0 C= 60.0 D= 50.0 E= 40.0



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 11:47 29-Dec-94
PROJECT: 34-910-1 AREA: TOOL & DIE 3 GRID: Ceiling
Values are FC, SCALE: 1 IN= 16.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
Computed in accordance with IES recommendations

-	MIN=53.2	MAX=217.	AVE=131.	AVE/MIN=	2.47	MAX/MIN=	4.07

C <50> = K7983M COLUMBIA KP496, (4) F96T12/CW, LLF= 0.67

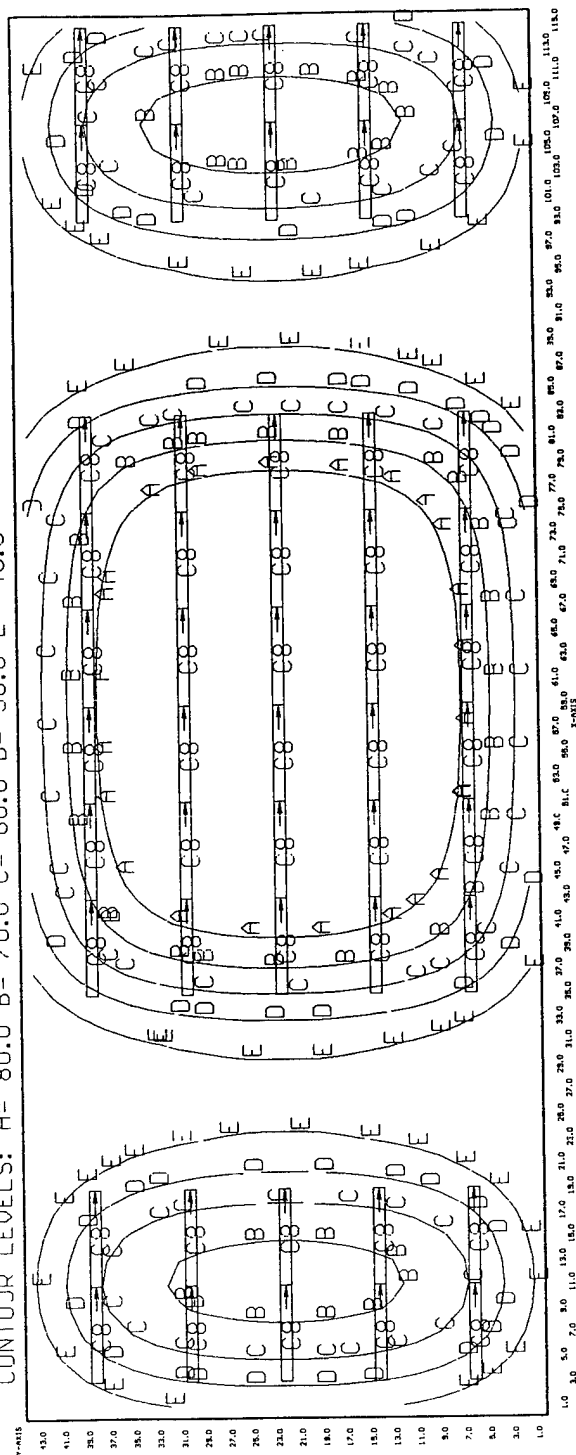
[illegible]

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 15:54 16-Mar-95
 PROJECT: 34-910-1 AREA: TOOL & DIE 3-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 16.0FT, -HORZ GRID <U>, HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=24.6 MAX=99.9 AVE=60.4 AVE/MIN= 2.46 MAX/MIN= 4.06

C8 <50> = K79E3 COLUMBIA CSR296, (2) F096/735, LLF= 0.67

CONTOUR LEVELS: A= 80.0 B= 70.0 C= 60.0 D= 50.0 E= 40.0

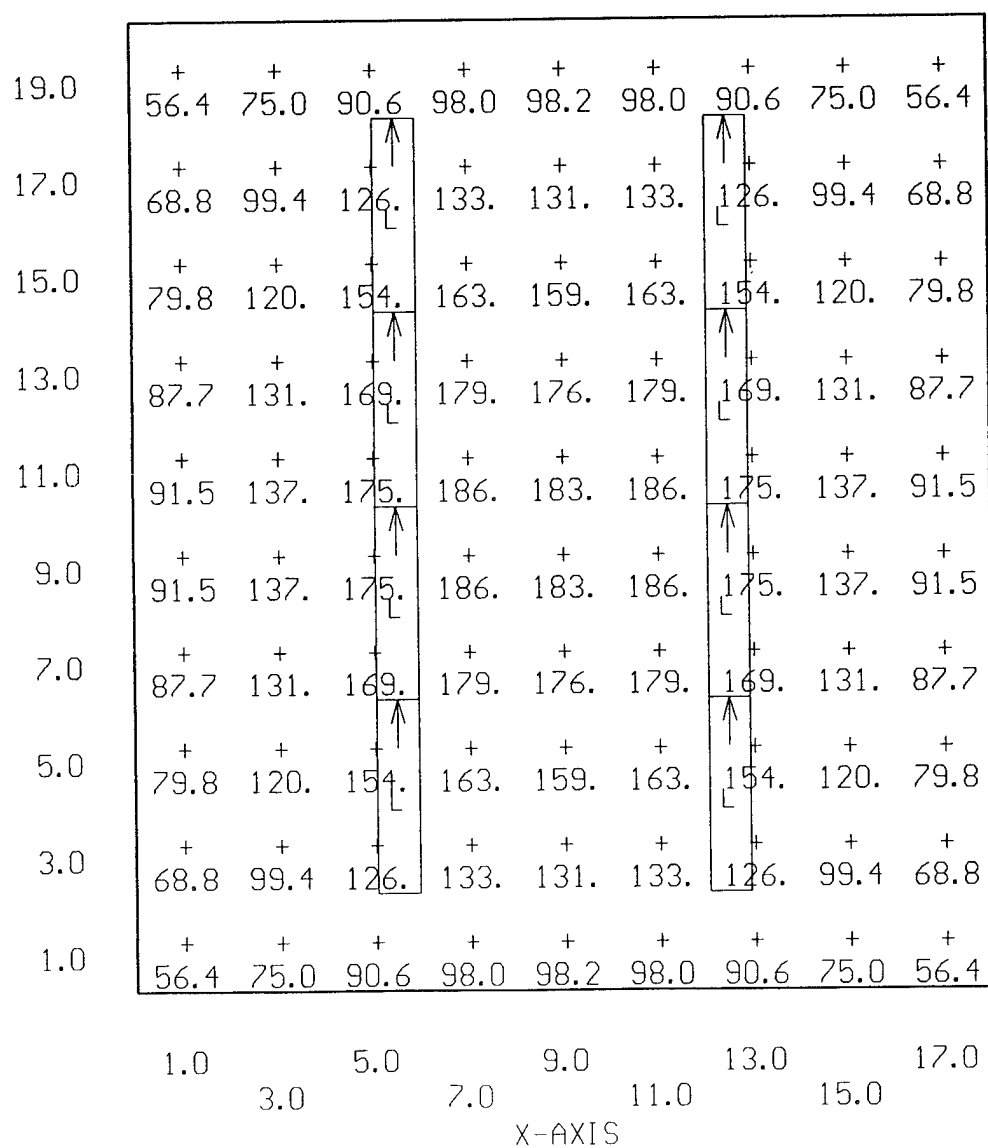


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:34 13-Feb-95
 PROJECT: 34-910-1 AREA: TOOL & DIE OFC GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=56.4 MAX=186. AVE=124. AVE/MIN= 2.20 MAX/MIN= 3.30

L <8> = 10368 COLUMBIA KL440-SOLID, <4> F40CW, LLF= 0.68

Y-AXIS

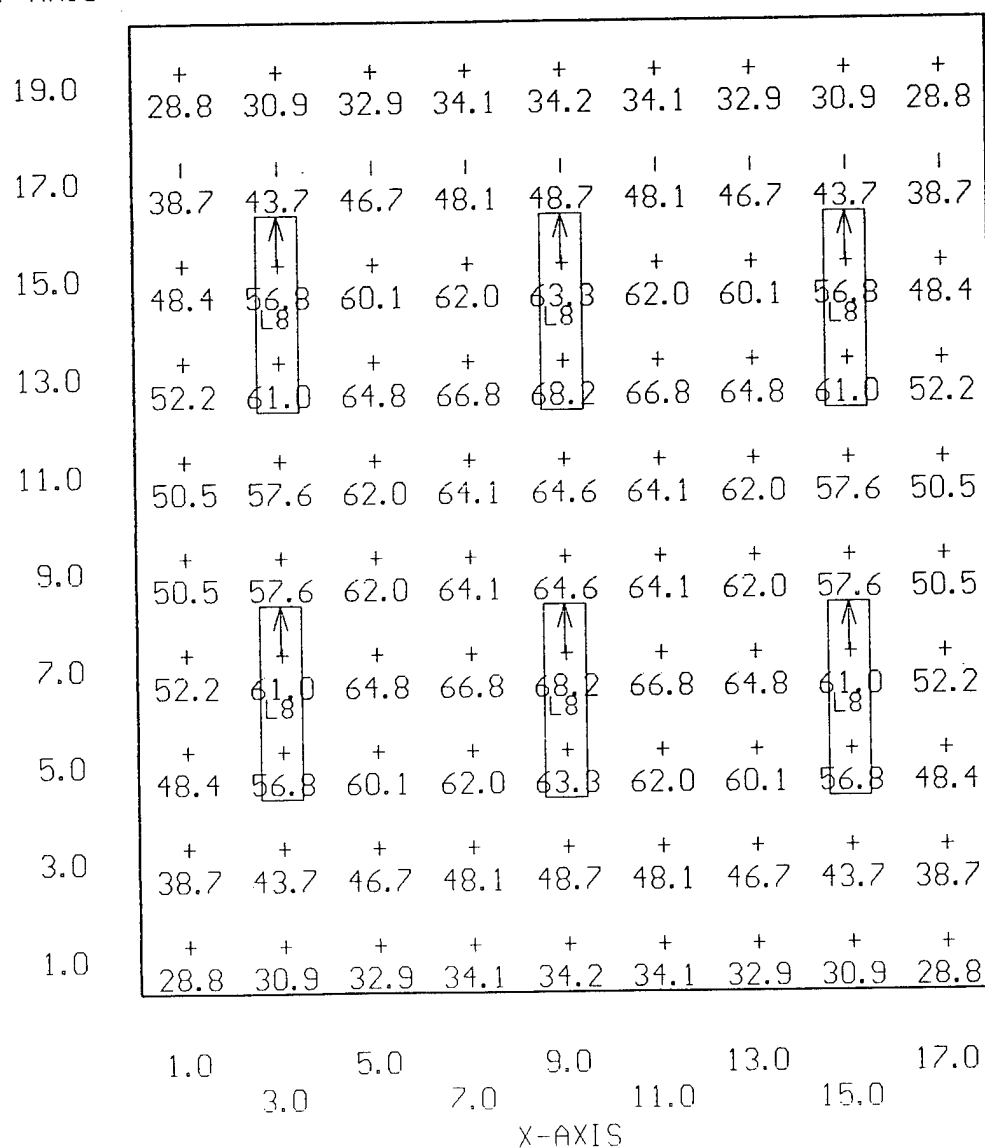


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:01 16-Mar-95
 PROJECT: 34-910-1 AREA: TOOL DIE OFC-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=28.8 MAX=68.2 AVE=51.1 AVE/MIN= 1.77 MAX/MIN= 2.37

L8 <6> = 10331 COLUMBIA CSR240-PAF-EOCT, (2) F032/35K, LLF= 0.69

Y-AXIS

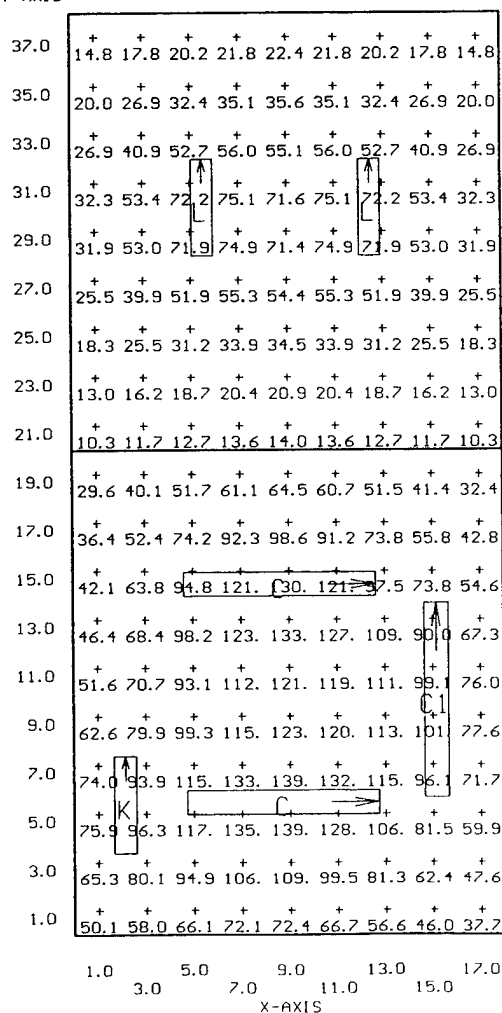


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:47 13-Feb-95
 PROJECT: 34-910-1 AREA: TOOL & DIE STO GRID: Ceiling
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=10.3 MAX=139. AVE=61.3 AVE/MIN= 5.95 MAX/MIN= 13.54

C <2> = K7983M COLUMBIA KP496, <4> F96T12/CW, LLF= 0.67
 C1 <1> = 10242 COLUMBIA KP296, <2> F96T12/CW, LLF= 0.67
 K <1> = 7991 COLUMBIA CSR240-A, <2> F40CW, LLF= 0.68
 L <2> = 10368 COLUMBIA KL440-SOLID, <4> F40CW, LLF= 0.68

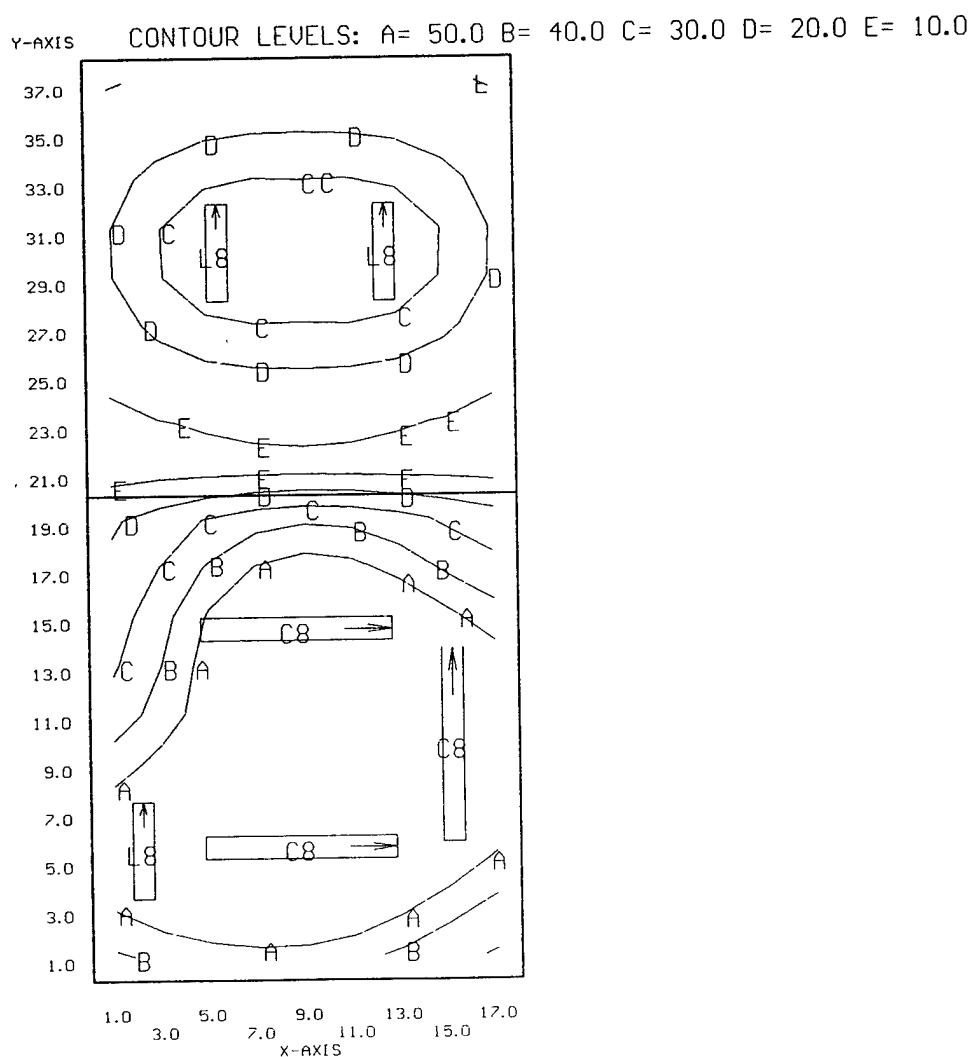
Y-AXIS



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:06 16-Mar-95
PROJECT: 34-910-1 AREA: TOOL DIE STO-N GRID: Ceiling
Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
Computed in accordance with IES recommendations

+ MIN=6.74 MAX=82.0 AVE=38.2 AVE/MIN= 5.67 MAX/MIN= 12.18

C8 <3> = K7993 COLUMBIA CSR296, (2) F096/735, LLF= 0.67
L8 <3> = 10331 COLUMBIA CSR240-PAF-E0CT, (2) F032/35K, LLF= 0.69

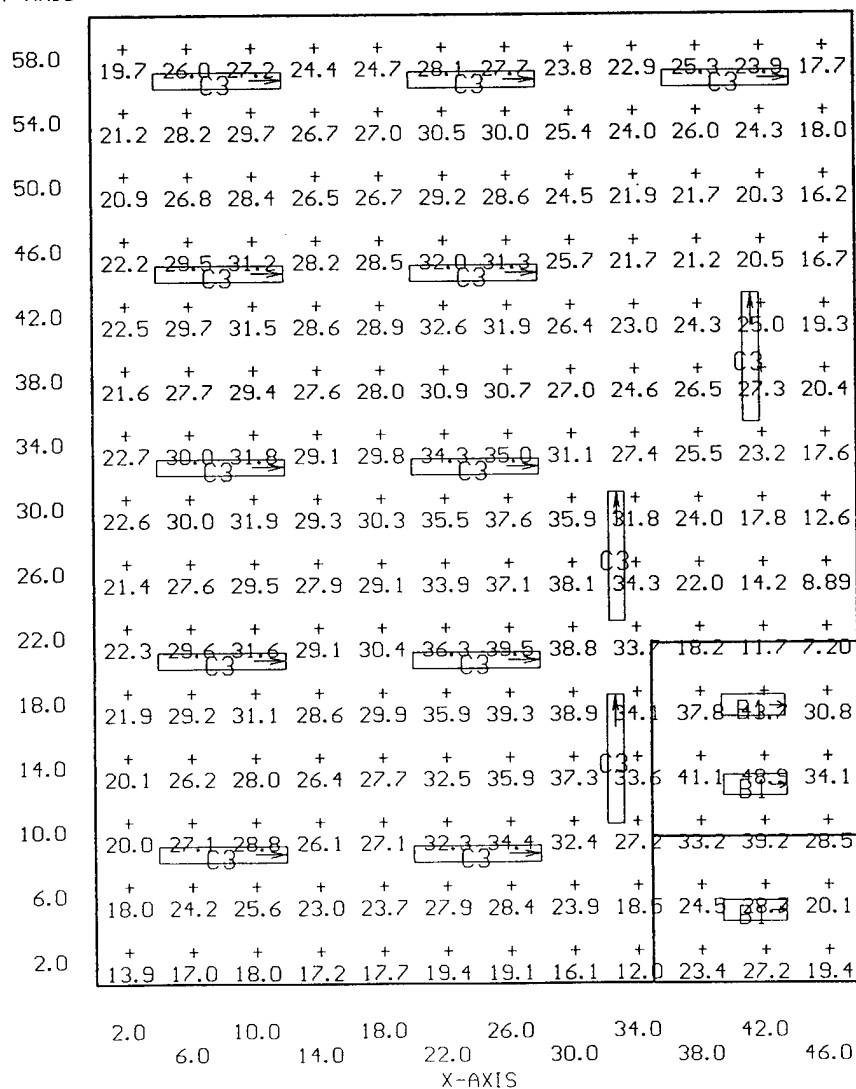


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 15:28 13-Feb-95
 PROJECT: 34-910-1 AREA: TOOL ROOM GRID: Ceiling
 Values are FC, SCALE: 1 IN= 12.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=7.20 MAX=48.9 AVE=26.9 AVE/MIN= 3.73 MAX/MIN= 6.80

B1 <3> = K9708 COLUMBIA WCW440-A, (4) F40CW, LLF= 0.68
 C3 <14> = 10242 COLUMBIA KP296, (2) F96T12/CW/WM, LLF= 0.69

Y-AXIS

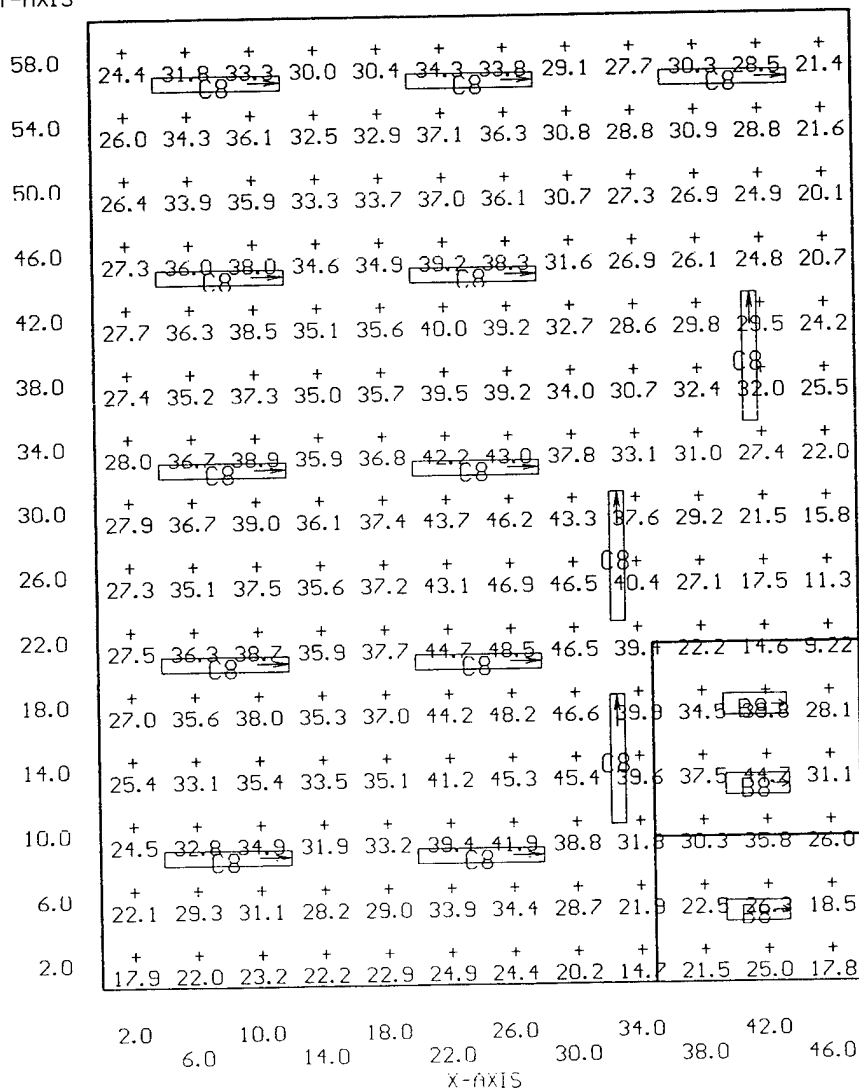


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:20 16-Mar-95
 PROJECT: 34-910-1 AREA: TOOL ROOM-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 12.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=9.22 MAX=48.5 AVE=32.2 AVE/MIN= 3.49 MAX/MIN= 5.27

B8 <3> = K9708 COLUMBIA WCW440-A, (4) F032/35K, LLF= 0.67
 C8 <14> = K7993 COLUMBIA CSR296, (2) F096/735, LLF= 0.67

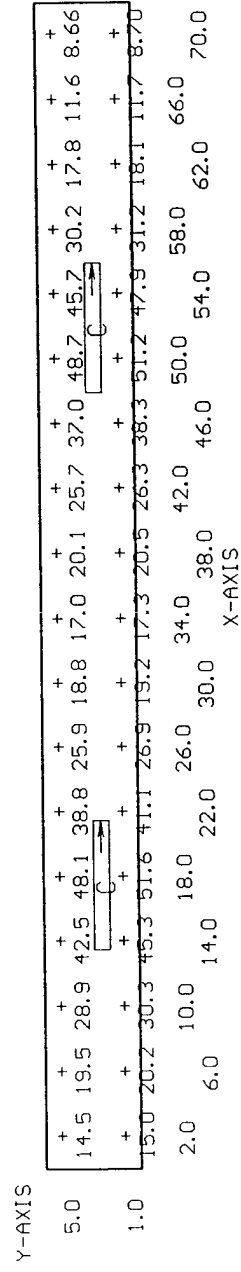
Y-AXIS



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 15:33 13-Feb-95
 PROJECT: 34-910-1 AREA: TOOL HALLWAY GRID: Ceiling
 Values are FC, SCALE: 1 IN= 12.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=8.66 MAX=51.6 AVE=28.3 AVE/MIN= 3.27 MAX/MIN= 5.96

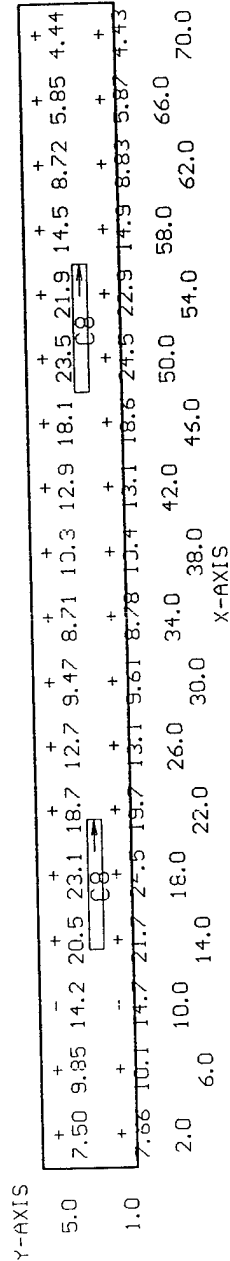
C <2> = K7983M COLUMBIA KP496, (4) F96T12/CW, LLF= 0.67



JSI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:22 16-Mar-95
 PROJECT: 34-910-1 AREA: TOOL HALLWAY-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 12.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=4.43 MAX=24.5 AVE=13.8 AVE/MIN= 3.13 MAX/MIN= 5.54

C8 <2> = K7993 COLUMBIA CSR296, <2> F096/735, LLF= 0.67

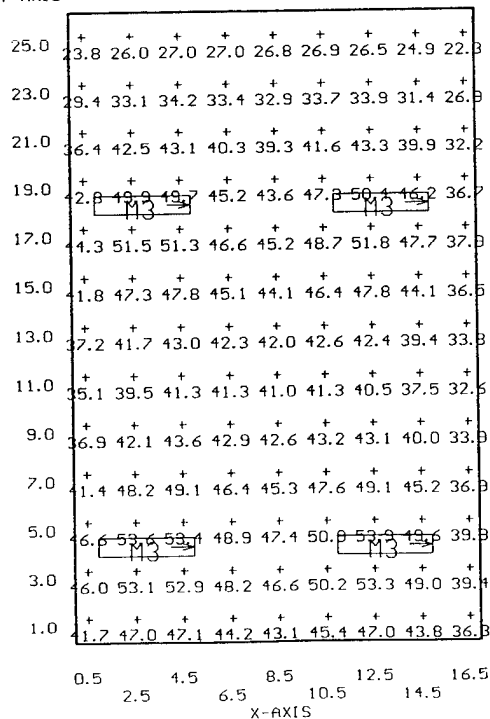


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:30 29-Dec-94
 PROJECT: 34-910-1 AREA: BGU WORK AREA GRID: Ceiling
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=22.3 MAX=53.9 AVE=41.8 AVE/MIN= 1.87 MAX/MIN= 2.42

M3 <4> = K8966 COLUMBIA K440-T, <4> F40CW, LLF= 0.65

Y-AXIS

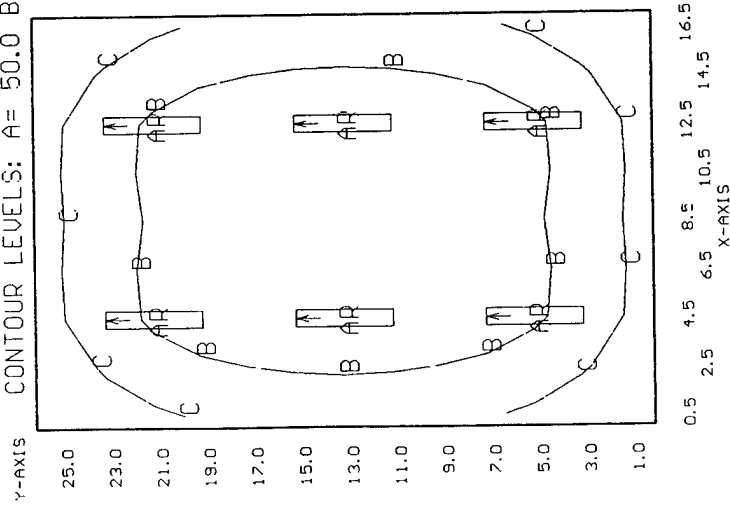


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:30 16-Mar-95
 PROJECT: 34-910-1 AREA: BGU WORK AREA-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=21.6 MAX=48.9 AVE=37.5 AVE/MIN= 1.73 MAX/MIN= 2.26

AR (S) = T9939 METALOPTICS WRSN4STACLO42EP11, (2) F032/35K, LLF= 0.83

CONTOUR LEVELS: A= 50.0 B= 40.0 C= 30.0 D= 20.0 E= 10.0

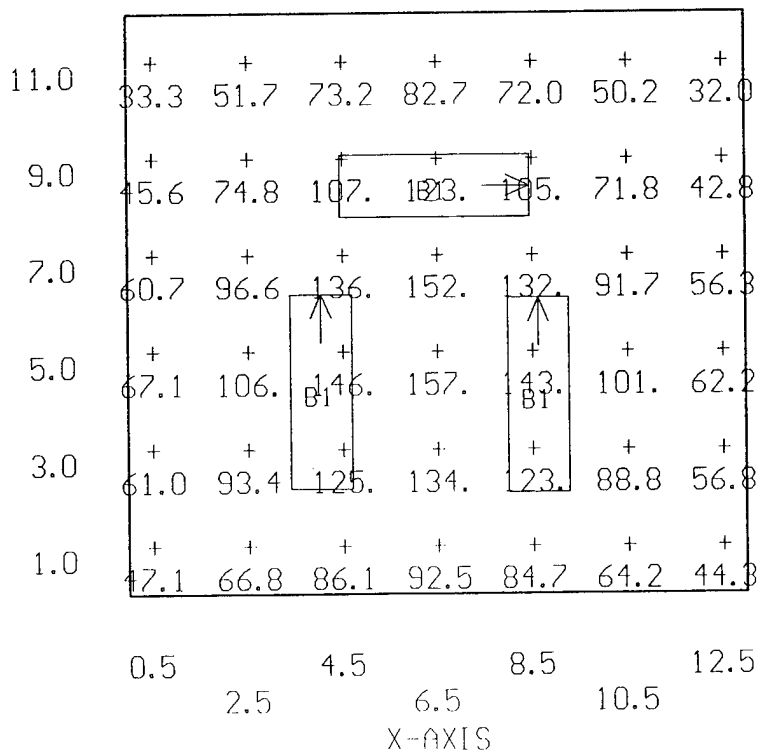


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:16 29-Dec-94
 PROJECT: 34-910-1 AREA: BGU BREAK ROOM GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=32.0 MAX=157. AVE=86.7 AVE/MIN= 2.71 MAX/MIN= 4.92

B1 <3> = K9708 COLUMBIA WCW440-A, <4> F40CW, LLF= 0.68

Y-AXIS



USI's LITE*PRO V2.27E Point-3y-Point Numeric Output 16:32 16-Mar-95
 PROJECT: 34-910-1 AREA: BGV BRK ROOM-N GRID: Ceiling
 Values are °C, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=11.7 MAX=42.3 AVE=25.7 AVE/MIN= 2.20 MAX/MIN= 3.62

AB <2> = K9504 COLUMBIA WCV240-A, <2> F032/35K, LLF= 0.66

Y-AXIS

11.0	+	1.7	+	19.7	+	29.3	+	34.8	+	29.3	+	19.7	+	11.7
9.0	+	3.9	+	23.8	+	35.6	+	40.7	+	35.6	+	23.8	+	13.9
7.0	+	4.7	+	25.7	+	37.6	+	42.3	+	37.6	+	25.7	+	14.7
5.0	+	4.7	+	25.7	+	37.6	+	42.3	+	37.6	+	25.7	+	14.7
3.0	+	3.9	+	23.8	+	35.6	+	40.7	+	35.6	+	23.8	+	13.9
1.0	+	1.7	+	19.7	+	29.3	+	32.8	+	29.3	+	19.7	+	11.7

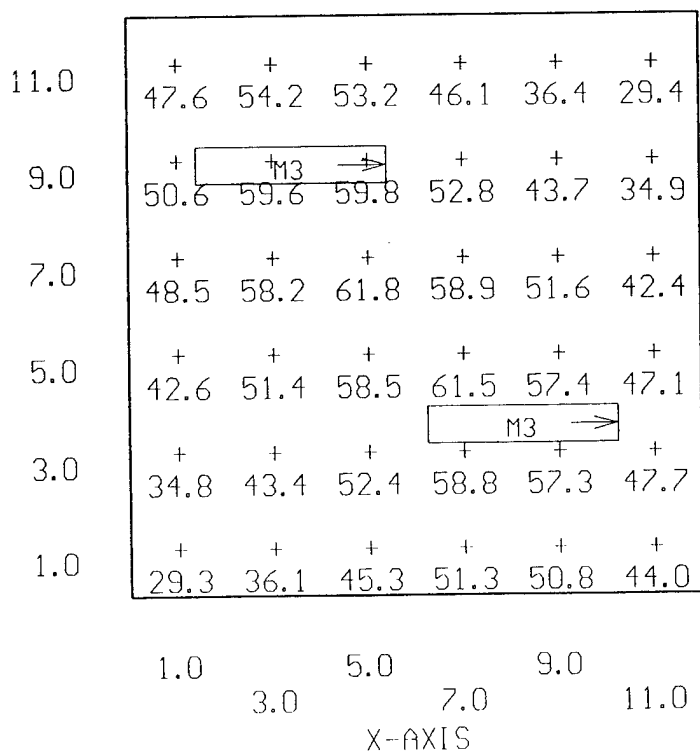
0.5 2.5 4.5 6.5 8.5 10.5 12.5
 X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:26 29-Dec-94
 PROJECT: 34-910-1 AREA: BGV OFFICE 1 GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=29.3 MAX=61.8 AVE=48.9 AVE/MIN= 1.67 MAX/MIN= 2.11

M3 <2> = K8966 COLUMBIA K440-T, <4> F40CW, LLF= 0.65

Y-AXIS

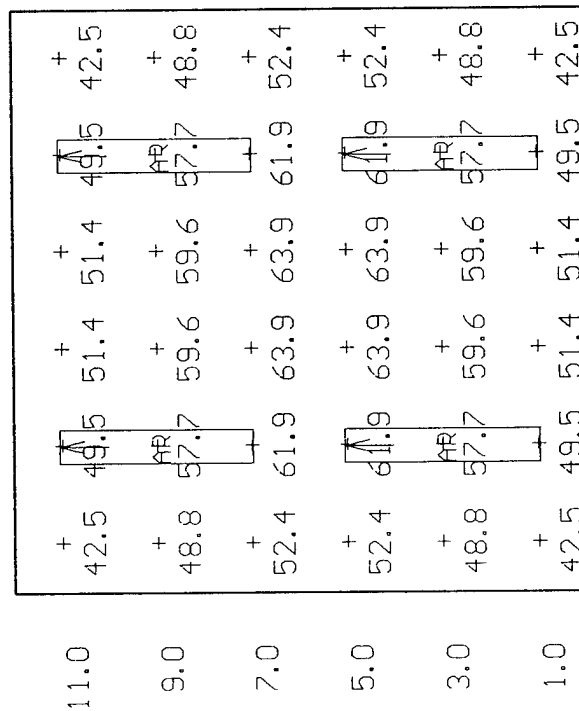


US's LITE*PRO V2.27E Point-By-Point Numeric Output 16:35 16-Mar-95
 PROJECT: 34-910-1 AREA: B6U 0-FICE 1-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=42.5 MAX=63.9 AVE=54.2 AVE/MIN= 1.27 MAX/MIN= 1.5C

AR <4> = T9939 METALOPTICS WRSV4STACLO42EP11, <2> F032/35K, LLF= 0.83

Y-AXIS



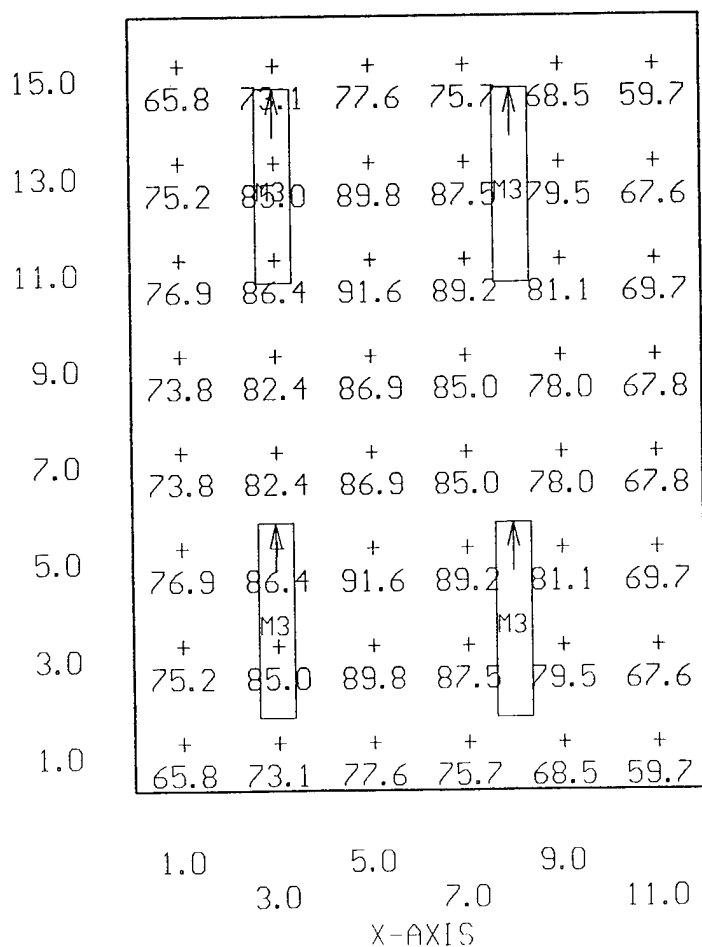
1.0 3.0 5.0 7.0 9.0 11.0
 X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:43 29-Dec-94
 PROJECT: 34-910-1 AREA: BGU OFFICE 2 GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=59.7 MAX=91.6 AVE=78.1 AVE/MIN= 1.31 MAX/MIN= 1.53

M3 <4> = K8966 COLUMBIA K440-T, <4> F40CW, LLF= 0.65

Y-AXIS

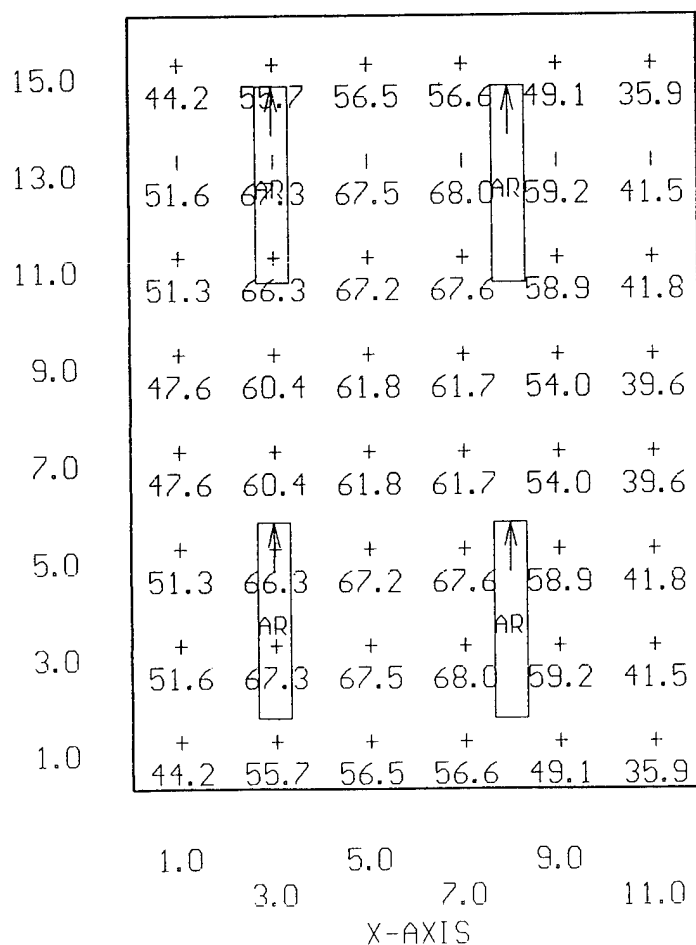


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:37 16-Mar-95
 PROJECT: 34-910-1 AREA: BGU OFFICE 2-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=35.9 MAX=68.0 AVE=55.5 AVE/MIN= 1.55 MAX/MIN= 1.90

AR <4> = T9939 METALOPTICS WRSN4STACLO42EP11, <2> F032/35K, LLF= 0.83

Y-AXIS

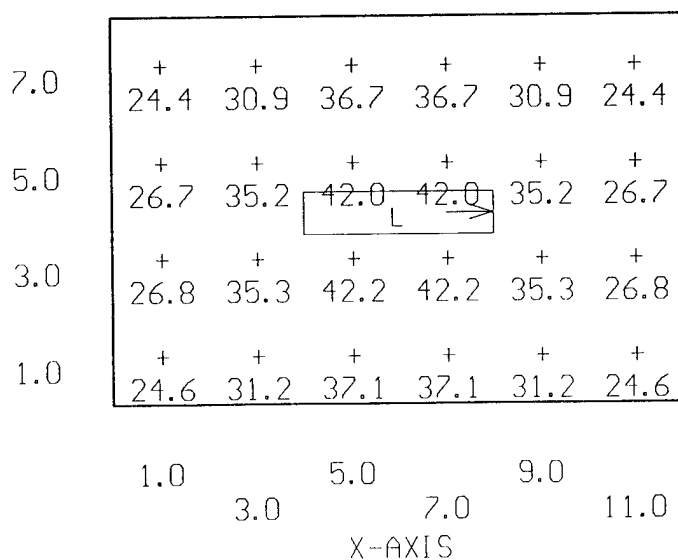


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:51 29-Dec-94
PROJECT: 34-910-1 AREA: BGU ENTRANCE GRID: Ceiling
Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
Computed in accordance with IES recommendations

+ MIN=24.4 MAX=42.2 AVE=32.8 AVE/MIN= 1.35 MAX/MIN= 1.73

L (1) = 10368 COLUMBIA KL440-SOLID, (4) F40CW, LLF= 0.68

Y-AXIS



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:39 16-Mar-95
 PROJECT: 34-910-1 AREA: BGV ENTRANCE-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=13.3 MAX=22.3 AVE=17.6 AVE/MIN= 1.32 MAX/MIN= 1.68

L8 <1> = 10331 COLUMBIA CSR2<0-PAF-EOCT, <2> F032/35K, L_F= 0.69

Y-AXIS

7.0	+	13.3	+	16.8	+	19.8	+	19.8	+	16.8	+	13.3	+
5.0	+	14.3	+	18.7	+	22.2	+	22.2	+	18.7	+	14.3	+
3.0	+	14.4	+	18.8	+	22.3	+	22.3	+	18.8	+	14.4	+
1.0	+	13.4	+	16.9	+	20.0	+	20.0	+	16.9	+	13.4	+

1.0 3.0 5.0 7.0 9.0 11.0
 X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 15:03 29-Dec-94
 PROJECT: 34-910-1 AREA: BGU KITCHEN GRID: Ceiling
 Values are FC, SCALE: 1 IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=8.14 MAX=49.7 AVE=29.9 AVE/MIN= 3.68 MAX/MIN= 6.11

J1 <2> = K7997A COLUMBIA LU240-8-DMP, (4) F40CW, LLF= 0.68

Y-AXIS

5.0	15.4	21.3	29.8	37.1	39.7	37.2	30.5	24.3	22.8	27.0	34.1	39.6	40.1	34.1	24.1	15.8	10.9	8.21	+
3.0	15.7	23.5	35.4	45.9	39.9	15.5	26.5	26.3	24.2	29.6	40.3	48.8	39.2	42.7	39.2	17.6	11.2	8.14	+
1.0	16.1	22.9	33.0	41.7	44.8	41.6	33.3	25.6	23.9	29.3	38.5	45.7	46.5	39.3	26.8	16.9	11.2	8.31	+

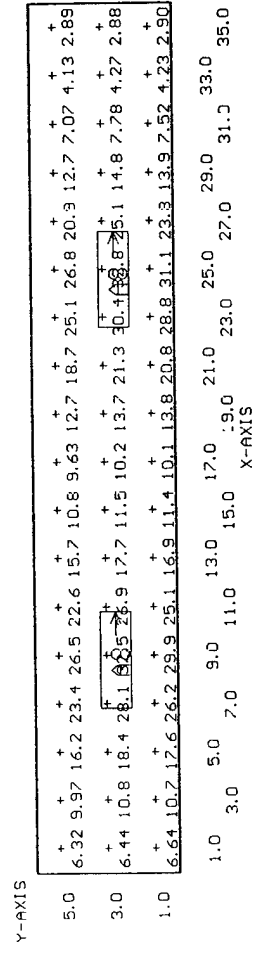
1.0 3.0 5.0 7.0 9.0 11.0 13.0 15.0 17.0 19.0 21.0 23.0 25.0 27.0 29.0 31.0 33.0 35.0

X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:42 16-Mar-95
 PROJECT: 34-910-1 AREA: BGU KITCHEN-N GRID: Ceiling
 Values are FC, SCALE: IN= 8.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=2.88 MAX=32.8 AVE=16.5 AVE/MIN= 5.72 MAX/MIN= 11.40

A8 <2> = K9604 COLUMBIA WCW240-A, (2) F032/35K, LLF= 0.66

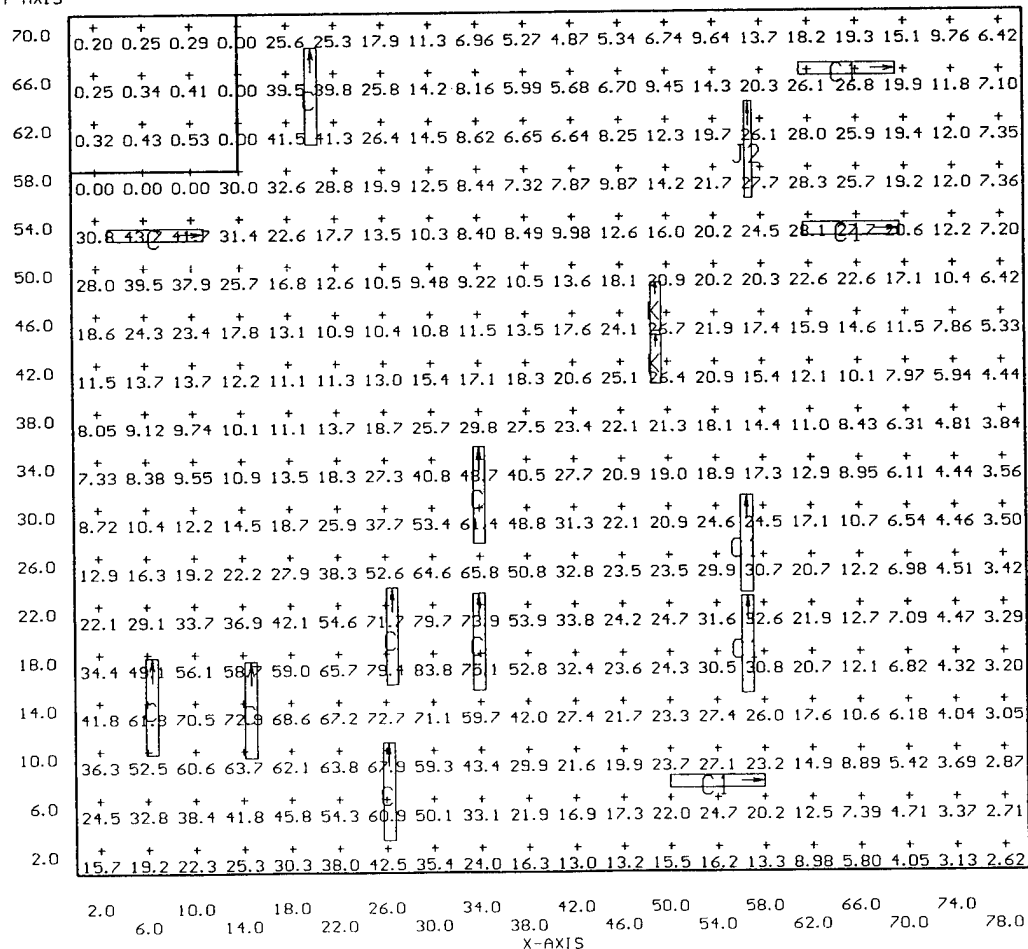


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 15:59 13-Feb-95
 PROJECT: 34-910-1 AREA: SHEET METAL GRID: Ceiling
 Values are FC, SCALE: 1 IN= 16.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=0.00 MAX=83.8 AVE=22.4 AVE/MIN=N/A MAX/MIN=N/A

C <8> = K7983M COLUMBIA KP496, (4) F96T12/CW, LLF= 0.67
 C1 <5> = 10242 COLUMBIA KP296, (2) F96T12/CW, LLF= 0.67
 J2 <1> = K9000X COLUMBIA LU296-WL, (2) F96T12/CW, LLF= 0.67
 K <2> = 7991 COLUMBIA CSR240-A, (2) F40CW, LLF= 0.68

Y-AXIS

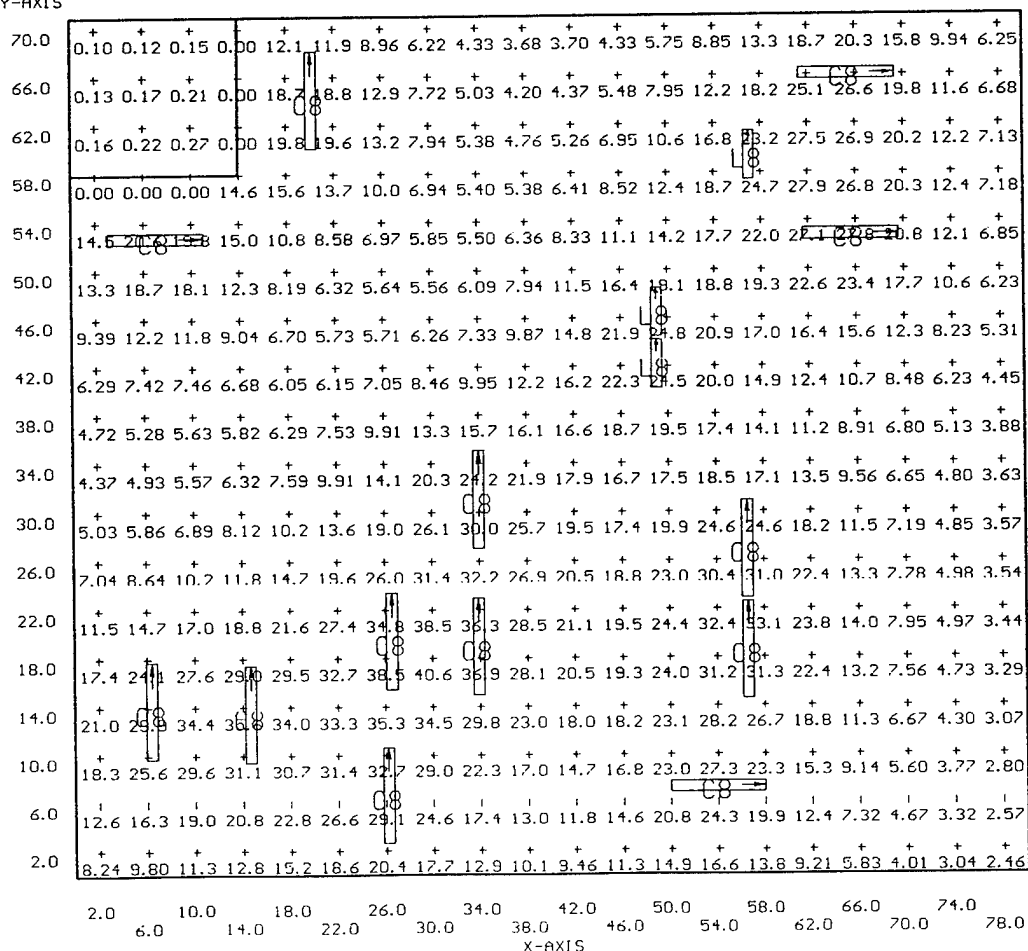


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:51 16-Mar-95
 PROJECT: 34-910-1 AREA: SHEET METAL-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 16.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=0.00 MAX=40.6 AVE=14.7 AVE/MIN=N/A MAX/MIN=N/A

C8 <13> = K7993 COLUMBIA CSR296, <2> F096/735, LLF= 0.67
 L8 <3> = 10331 COLUMBIA CSR240-PAF-E0CT, <2> F032/35K, LLF= 0.69

Y-AXIS



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:09 13-Feb-95
 PROJECT: 34-910-1 AREA: STORAGE CRIB GRID: Ceiling
 Values are FC, SCALE: 1 IN= 16.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=1.48 MAX=34.9 AVE=20.6 AVE/MIN= 13.95 MAX/MIN= 23.62

C3 <18> = 10242 COLUMBIA KP296, (2) F96T12/CW/MM, LLF= 0.69

Y-AXIS

46.0	12.0	16.1	18.9	20.3	21.1	21.4	21.7	21.8	21.9	21.7	21.7	21.5	21.2	20.8	20.1	19.6	19.0	17.8	15.8	12.3	8.23
42.0	15.8	23.2	22.6	29.3	20.7	30.7	31.1	31.2	31.2	31.1	31.5	30.9	31.0	30.8	30.1	29.0	28.9	28.5	27.5	25.8	23.2
38.0	16.8	24.7	29.3	31.3	32.8	32.9	33.4	33.5	33.2	33.6	33.0	33.0	32.6	31.8	31.4	30.0	29.0	27.8	25.8	23.2	17.0
34.0	15.5	21.3	25.3	27.5	28.7	29.1	29.5	29.5	29.4	29.4	29.1	28.8	28.2	27.3	26.0	23.9	21.7	19.8	17.8	15.5	11.8
30.0	15.7	21.6	25.7	27.9	29.1	29.5	29.9	29.9	29.8	29.6	29.2	28.8	28.0	26.8	24.7	20.8	16.6	13.5	11.4	9.61	7.65
26.0	17.6	25.7	30.6	32.7	34.2	34.3	34.8	34.7	34.0	33.8	32.5	31.6	30.3	28.3	25.4	19.1	11.8	7.45	5.31	4.18	3.44
22.0	17.6	25.7	30.6	32.7	34.2	34.3	34.8	34.7	34.0	33.8	32.5	31.6	30.3	28.3	25.4	19.1	11.8	7.45	5.31	4.18	3.44
18.0	15.7	21.6	25.7	27.9	29.1	29.5	29.9	29.9	29.8	29.6	29.2	28.8	28.0	26.8	24.7	20.8	16.6	13.5	11.4	9.61	7.65
14.0	15.5	21.3	25.3	27.5	28.7	29.1	29.5	29.5	29.4	29.4	29.1	28.8	28.2	27.3	26.0	23.9	21.7	19.8	17.8	15.5	11.8
10.0	16.8	24.7	29.3	31.3	32.8	32.9	33.4	33.5	33.2	33.6	33.0	33.0	32.6	31.8	31.4	30.0	29.0	27.8	25.8	23.2	17.0
6.0	15.8	23.2	22.6	29.3	20.7	30.7	31.1	31.2	31.2	31.1	31.5	30.9	31.0	30.8	30.1	29.0	28.9	28.5	27.5	25.8	23.2
2.0	12.0	16.1	18.9	20.3	21.1	21.4	21.7	21.8	21.9	21.7	21.7	21.5	21.2	20.8	20.1	19.6	19.0	17.8	15.8	12.3	8.23

2.0 6.0 10.0 14.0 18.0 22.0 26.0 30.0 34.0 38.0 42.0 46.0 50.0 54.0 58.0 62.0 66.0 70.0 74.0 78.0 82.0 86.0
 X-AXIS

+ YIN=1.73	MAX=40.9	AVE=24.4	AVE/MIN=	14.10	MAX/MIN=	23.65

28 <18> = K7993 COLUMBIA CSR296, (2) F095/735, LLF= 0.67

46.0	14.4	19.5	23.0	24.7	25.7	26.0	26.3	26.5	26.6	25.4	26.3	26.1	25.7	25.2	24.3	23.7	22.9	21.5	15.1	14.7	9.65
42.0	18.1	26.7	31.2	33.8	35.9	36.7	37.1	37.5	37.8	37.2	36.8	36.5	36.2	35.3	34.5	33.7	32.2	29.2	26.2	19.3	11.9
38.0	19.3	28.5	33.9	36.2	37.9	38.0	38.6	38.7	38.4	38.8	38.1	38.1	37.6	36.6	36.1	34.2	33.1	31.5	29.2	26.2	19.1
34.0	18.5	25.8	30.8	33.4	34.9	35.4	35.8	35.9	35.7	35.7	35.3	34.9	34.2	33.1	31.6	28.9	26.2	23.8	21.4	18.7	14.1
30.0	18.9	26.3	31.4	34.1	35.6	36.1	36.5	36.5	36.3	36.2	35.6	35.0	34.1	32.6	30.1	25.4	20.1	16.3	13.8	11.7	9.22
26.0	20.5	30.1	35.8	38.4	40.2	40.3	40.8	40.7	39.9	39.5	37.8	36.7	35.1	32.7	29.5	22.2	14.0	8.99	6.55	5.20	4.26
22.0	18.9	26.3	31.4	34.0	35.5	35.9	36.1	35.9	35.0	33.6	31.1	28.5	26.0	23.6	20.7	15.8	10.6	6.98	5.05	3.97	3.27
18.0	18.5	25.8	30.8	33.3	34.8	35.1	35.3	34.8	33.6	31.4	25.8	21.6	17.8	15.3	12.9	10.2	7.38	5.29	3.96	3.16	2.64
14.0	19.3	28.5	33.9	36.1	37.8	37.9	38.0	37.5	35.8	33.1	26.0	17.9	12.9	10.1	8.29	6.63	5.15	3.98	3.15	2.50	2.25
10.0	18.1	26.7	31.2	33.7	35.2	35.0	35.3	34.7	33.0	30.2	23.2	15.1	10.2	7.64	6.03	4.81	3.86	3.14	2.62	2.25	2.00
6.0	14.4	19.5	23.9	24.6	25.5	25.7	24.9	23.6	21.3	15.9	11.8	8.38	6.44	4.90	3.71	3.07	2.61	2.28	2.03	1.85	1.78
2.0	2.0	5.0	10.0	14.0	18.0	22.0	26.0	30.0	34.0	42.0	50.0	58.0	66.0	74.0	82.0	90.0	98.0	106.0	114.0	122.0	130.0

Bldg 34-970 Summary

Present System

Fixture Type	Watts/ Fixture	Number Fixtures	Total Watts
A	96	2	192
B	192	1	192
F	166	23	3,818
G	84	12	1,008
M3	192	2	384
X2	75	2	150
Totals		42	5,744

Replacement System

Fixture Type	Watts/ Fixture	Number Fixtures	Total Watts
CF	34	2	68
G8	59	27	1,593
W8	59	5	295
Totals		34	1,956

34-970 Schedule

Reynolds, Smith & Hills, Inc.
4651 Salisbury Road
Jacksonville, FL 32256
Buildings Engineering

Luminaire Fixture Schedule
Generated by LitePro V2.27E
Provided and supported by USI Lighting, Inc.
Filename: 34-970 Type: Indoor

Luminaire Fixture Schedule / **PRESENT**

Project name: Lighting Survey - PBA Bldg 34-970
Prepared for: Corps of Engineers
Prepared by: C. Warren

Project #6941331
Date: 6-Jan-95
UPD: 3.0W/Sq.Ft

TYPE	DESCRIPTION	LAMP/BALLAST	V/W	QTY	REMARKS
A	15"X4'2L CEILING MT.WRAPAROUND LENS- PRISMATIC W/ GLOW ENDS COLUMBIA WCW240-A	F40CW STD	000 - 96	2	
B	18"X4'4L CEILING MT.WRAPAROUND LENS- PRISMATIC W/ GLOW ENDS COLUMBIA WPW440-A	F40CW STD	000 - 192	1	
F	2X4 4L FLUSH STATIC TROFFER LENS- .125" POLARIZED PATT.12 COLUMBIA 4PS2*-87-244	F40CW ESB	000 - 166	23	
G	2X4 2L FLUSH STATIC TROFFER LENS-PRISMATIC ACRYLIC PATT-12 COLUMBIA 4PS2*-52-242	F40CW ESB	000 - 84	12	
M3	9"X4' 4L SURFACE TURRET STRIP EGGCRATE LOUVERS COLUMBIA K440-T	F40CW STD	000 - 192	2	
X2	5"RECESS ROUND DOWNLIGHT, LOWER OPEN- CLEAR ALZAK REFLECTOR PRESCOLITE 1222-262	75A19/SW NA	000 - 75	2	

NOTES:

34-970 Schedule

Reynolds, Smith & Hills, Inc.
4651 Salisbury Road
Jacksonville, FL 32256
Buildings Engineering

Luminaire Fixture Schedule
Generated by LitePro V2.27E
Provided and supported by USI Lighting, Inc.
Filename: 34-970 Type: Indoor

Luminaire Fixture Schedule / ~~PROPOSED~~

Project name: Lighting Survey - PBA Bldg 34-970
Prepared for: Corps of Engineers
Prepared by: C. Warren

Project #6941331
Date: 10-Mar-95
UPD: 1.0W/Sq.Ft

TYPE	DESCRIPTION	LAMP/BALLAST	V/W	QTY	REMARKS
CF	~~8"1L(VERT)RECESS ROUND DOWNLITE~~ ~~OPEN- CLEAR ALZAK REFLECTOR~~ ~~PRESCOLITE CF123526-462~~	~~F26DTT/27K~~ ~~STD~~ P320	000 - 26 34	2	
G8	2X4 2L FLUSH STATIC TROFFER LENS-PRISMATIC ACRYLIC PATT-19 COLUMBIA T84PS2*-84-242-2EOCT	FO32/31K EOCT	000 - 59	27	
W8	15"X4'2L CEILING MT.WRAPAROUND LENS- PRISMATIC W/ GLOW ENDS COLUMBIA WCW240-A	FO32/35K EOCT	000 - 59	5	

NOTES:

Reynolds, Smith & Hills, Inc.
 4651 Salisbury Road
 Jacksonville, FL 32256
 Buildings Engineering

Project Area Summary
 Generated by LitePro V2.27E
 Provided and supported by USI Lighting, Inc.
 Filename: 34-970 Type: Indoor

Project Area Summary

Project name: Lighting Survey - PBA Bldg 34-970
 Prepared for: Corps of Engineers
 Prepared by: C. Warren

Project #6941331
 Date: 10-Mar-95
 UPD: 2.0W/Sq.Ft

AREA NAME	DIMENSIONS	LUMINAIRES	W/SQ.FT	QTY
SECRETARY OFC	12x12x8Ft	(4) Type F	4.6	1
SECRETARY OFC-N	12x12x8Ft	(3) Type G8	1.2	1
ADMIN OFFICE	16x16x8Ft	(4) Type F	2.6	1
ADMIN OFFICE-N	16x16x8Ft	(4) Type G8	0.9	1
ADMIN #4	11x12x8Ft	(4) Type F	5.0	1
ADMIN #4-N	11x12x8Ft	(3) Type G8	1.3	1
ADMIN #3	13x12x8Ft	(4) Type F	4.3	1
ADMIN #3-N	13x12x8Ft	(4) Type G8	1.5	1
DIRECTOR	18x16x8Ft	(8) Type G	2.3	1
DIRECTOR-N	18x16x8Ft	(4) Type G8	0.8	1
CONF ROOM	18x16x8Ft	(5) Type F	2.9	1
CONF ROOM-N	18x16x8Ft	(4) Type G8	0.8	1
FILE ROOM	14x9x8Ft	(2) Type F	2.6	1
FILE ROOM-N	14x9x8Ft	(1) Type G8	0.5	1
COPIER ROOM	13x6x10Ft	(2) Type M3	4.9	1
COPIER ROOM-N	13x6x10Ft	(2) Type W8	1.5	1
STORAGE ROOM	15x6x10Ft	(2) Type A	2.1	1
STORAGE ROOM-N	15x6x10Ft	(2) Type W8	1.3	1
WOMEN'S LOUNGE	6x9x10Ft	(1) Type B	3.6	1

Page 2
34-970 Areas

WOMENS LOUNGE-N	6x9x10Ft	(1) Type W8	1.1	1
RESTROOMS	4x9x8Ft	(1) Type X2	2.1	2
RESTROOMS-N	4x9x8Ft	(1) Type CF	0.9	2
ALCOVE	6x4x8Ft	(1) Type G	4.0	1
ALCOVE-N	6x4x8Ft	(1) Type G8	2.8	1
KITCHEN	8x13x8Ft	(1) Type G	0.8	1
KITCHEN-N	8x13x8Ft	(1) Type G8	0.6	1
HALLWAY	30x4x8Ft	(2) Type G	1.4	1
HALLWAY-N	30x4x8Ft	(2) Type G8	1.0	1

NOTES:

34-970 Calculations

Reynolds, Smith & Hills, Inc.
 4651 Salisbury Road
 Jacksonville, FL 32256
 Buildings Engineering

Project Calculation Summary
 Generated by LitePro V2.27E
 Provided and supported by USI Lighting, Inc.
 Filename: 34-970 Type: Indoor

Project Calculation Summary

Project name: Lighting Survey - PBA Bldg 34-970
 Prepared for: Corps of Engineers
 Prepared by: C. Warren

Project #6941331
 Date: 10-Mar-95
 UPD: 2.0W/Sq.Ft

AREA NAME	DIMENSIONS	GRID NAME	AVE	MAX	MIN
SECRETARY OFC	12x12x8Ft	Ceiling	<+> 106.5	146.4	66.4
SECRETARY OFC-N	12x12x8Ft	Ceiling	<+> 49.5	79.3	24.7
ADMIN OFFICE	16x16x8Ft	Ceiling	<+> 69.2	121.4	24.1
ADMIN OFFICE-N	16x16x8Ft	Ceiling	<+> 42.7	72.1	16.6
ADMIN #4	11x12x8Ft	Ceiling	<+> 108.9	148.5	69.3
ADMIN #4-N	11x12x8Ft	Ceiling	<+> 50.4	79.9	25.9
ADMIN #3	13x12x8Ft	Ceiling	<+> 103.5	149.4	49.3
ADMIN #3-N	13x12x8Ft	Ceiling	<+> 59.6	77.3	35.8
DIRECTOR	18x16x8Ft	Ceiling	<+> 76.8	104.5	34.7
DIRECTOR-N	18x16x8Ft	Ceiling	<+> 38.2	60.0	15.5
CONF ROOM	18x16x8Ft	Ceiling	<+> 79.4	150.4	14.4
CONF ROOM-N	18x16x8Ft	Ceiling	<+> 38.4	76.0	6.6
FILE ROOM	14x9x8Ft	Ceiling	<+> 58.0	88.3	32.5
FILE ROOM-N	14x9x8Ft	Ceiling	<+> 19.0	41.9	6.3
COPIER ROOM	13x6x10Ft	Ceiling	<+> 27.2	32.6	20.4
COPIER ROOM-N	13x6x10Ft	Ceiling	<+> 29.7	36.2	23.7
STORAGE ROOM	15x6x10Ft	Ceiling	<+> 29.5	34.6	21.2
STORAGE ROOM-N	15x6x10Ft	Ceiling	<+> 26.3	30.9	18.9

WOMEN'S LOUNGE	6x9x10Ft	Ceiling	<+>	35.9	43.5	28.7
WOMENS LOUNGE-N	6x9x10Ft	Ceiling	<+>	18.8	22.8	15.0
RESTROOMS	4x9x8Ft	Ceiling	<+>	8.7	15.1	1.1
RESTROOMS-N	4x9x8Ft	Ceiling	<+>	8.0	17.6	1.7
ALCOVE	6x4x8Ft	Ceiling	<+>	58.5	65.5	47.9
ALCOVE-N	6x4x8Ft	Ceiling	<+>	57.1	64.2	46.7
KITCHEN	8x13x8Ft	Ceiling	<+>	23.2	47.6	8.5
KITCHEN-N	8x13x8Ft	Ceiling	<+>	22.7	47.3	7.2
HALLWAY	30x4x8Ft	Ceiling	<+>	28.9	46.3	12.4
HALLWAY-N	30x4x8Ft	Ceiling	<+>	27.5	45.3	10.8

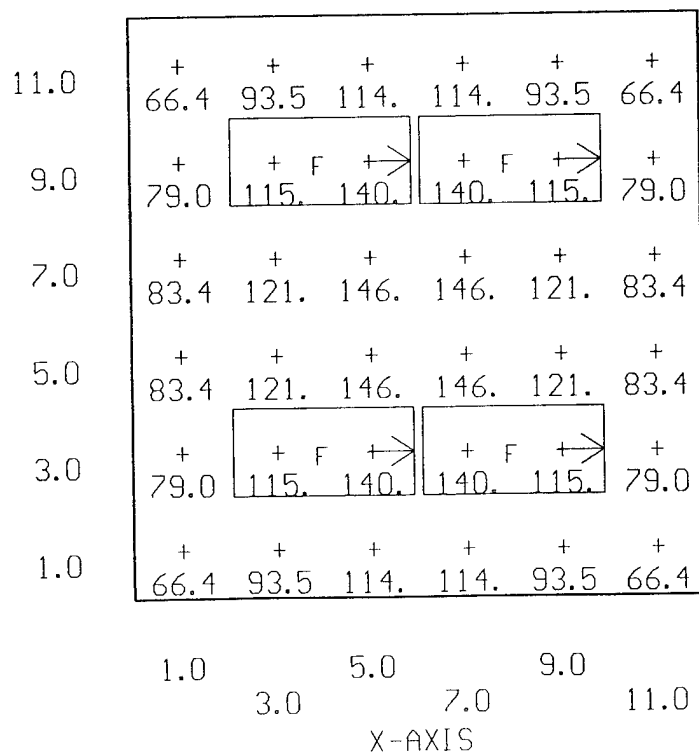
NOTES:

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:37 6-Jan-95
 PROJECT: 34-970 AREA: SECRETARY OFC GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=66.4 MAX=146. AVE=107. AVE/MIN= 1.60 MAX/MIN= 2.20

F <4> = 9753 COLUMBIA 4PS2*-87-244, <4> F40CW, LLF= 0.68

Y-AXIS

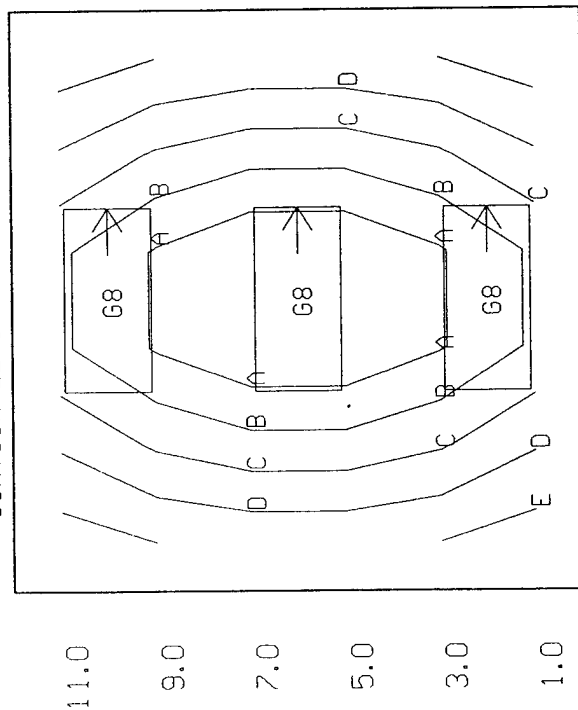


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 11:33 10-Mar-95
 PROJECT: 34-970 AREA: SECRETARY OFC-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=24.7 MAX=79.3 AVE=49.5 AVE/MIN= 2.00 MAX/MIN= 3.20

G8 <3> = 9868 COLUMBIA T84PS2*-84-242-2E0CT, <2> F032/31K, LLF= 0.66

Y-AXIS CONTOUR LEVELS: A= 70.0 B= 60.0 C= 50.0 D= 40.0 E= 30.0



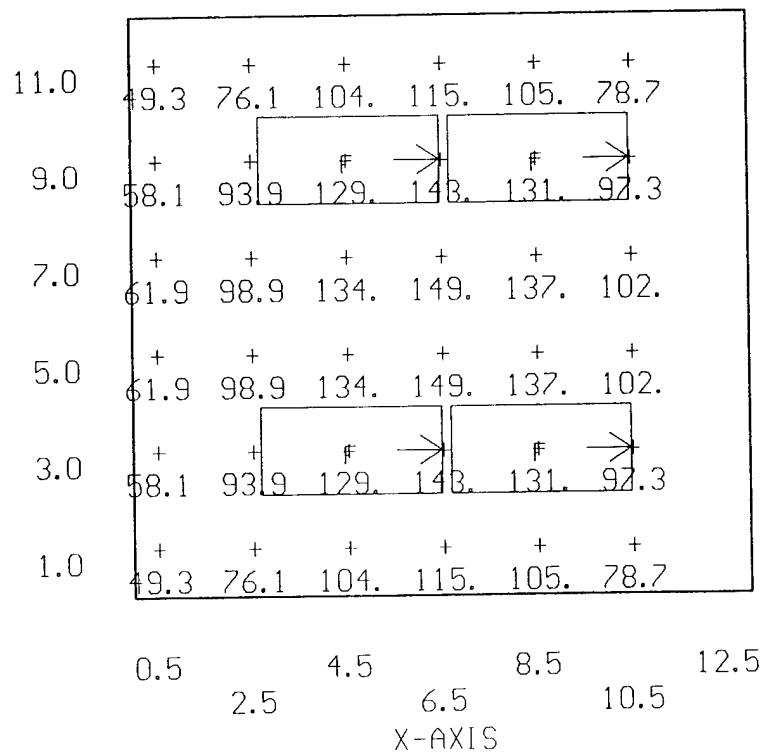
1.0 3.0 5.0 7.0 9.0 11.0
 X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:46 6-Jan-95
 PROJECT: 34-970 AREA: ADMIN #3 GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=49.3 MAX=149. AVE=103. AVE/MIN= 2.10 MAX/MIN= 3.03

F <4> = 9753 COLUMBIA 4PS2*-87-244, <4> F40CW, LLF= 0.68

Y-AXIS

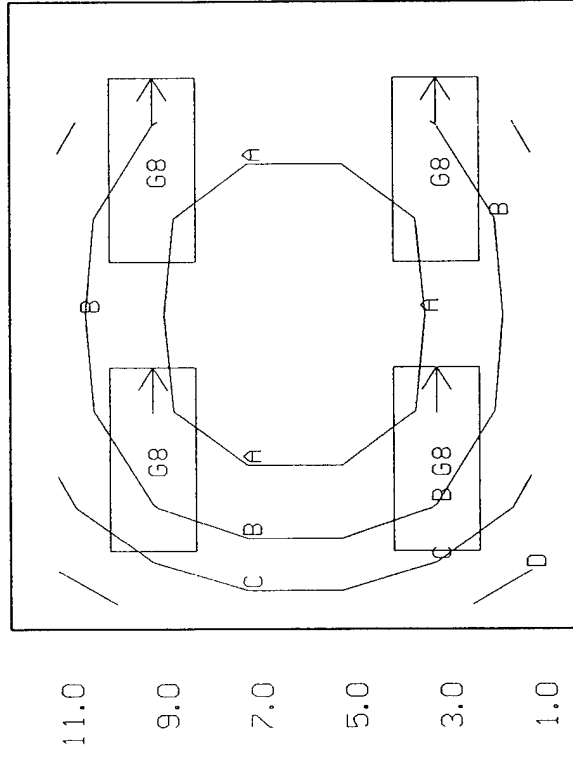


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 11:38 10-Mar-95
 PROJECT: 34-970 AREA: ADMIN #3-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=35.8 MAX=77.3 AVE=59.6 AVE/MIN= 1.66 MAX/MIN= 2.16

68 <4> = 9868 COLUMBIA T84PS2*-84-242-2EOCT, (2) F032/31K, LLF= 0.66

Y-AXIS CONTOUR LEVELS: A= 70.0 B= 60.0 C= 50.0 D= 40.0 E= 30.0



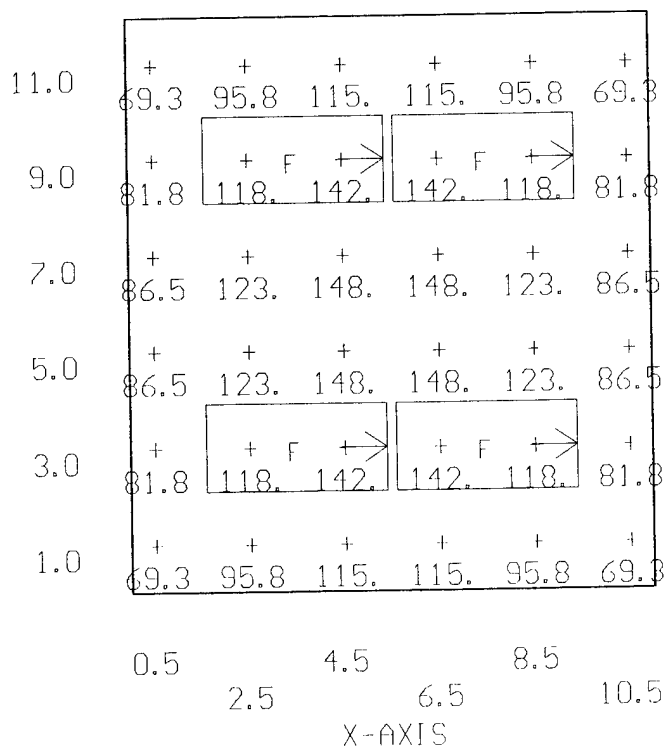
0.5 4.5 8.5 12.5
 2.5 6.5 10.5
 X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:43 6-Jan-95
 PROJECT: 34-970 AREA: ADMIN #4 GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=69.3 MAX=148. AVE=109. AVE/MIN= 1.57 MAX/MIN= 2.14

F <4> = 9753 COLUMBIA 4PS2*-87-244, (4) F40CW, LLF= 0.68

Y-AXIS



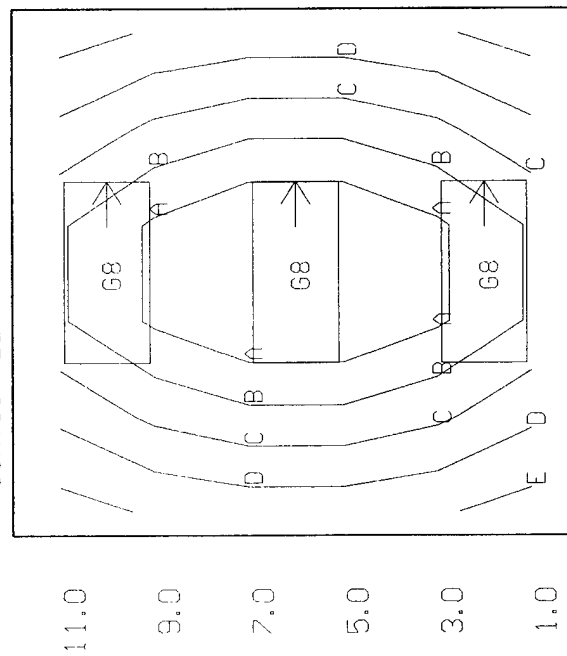
USI's LITE*PRO V2.27E Point-By-Point Numeric Output 11:41 10-Mar-95
 PROJECT: 34-970 AREA: ADMIN #4-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=25.9 MAX=79.9 AVE=50.4 AVE/MIN= 1.94 MAX/MIN= 3.08

G8 <3> = 9868 COLUMBIA T84PS2*-84-242-2EOCT, <2> F032/31K, LLF= 0.66

Y-AXIS

CONTOUR LEVELS: A= 70.0 B= 60.0 C= 50.0 D= 40.0 E= 30.0



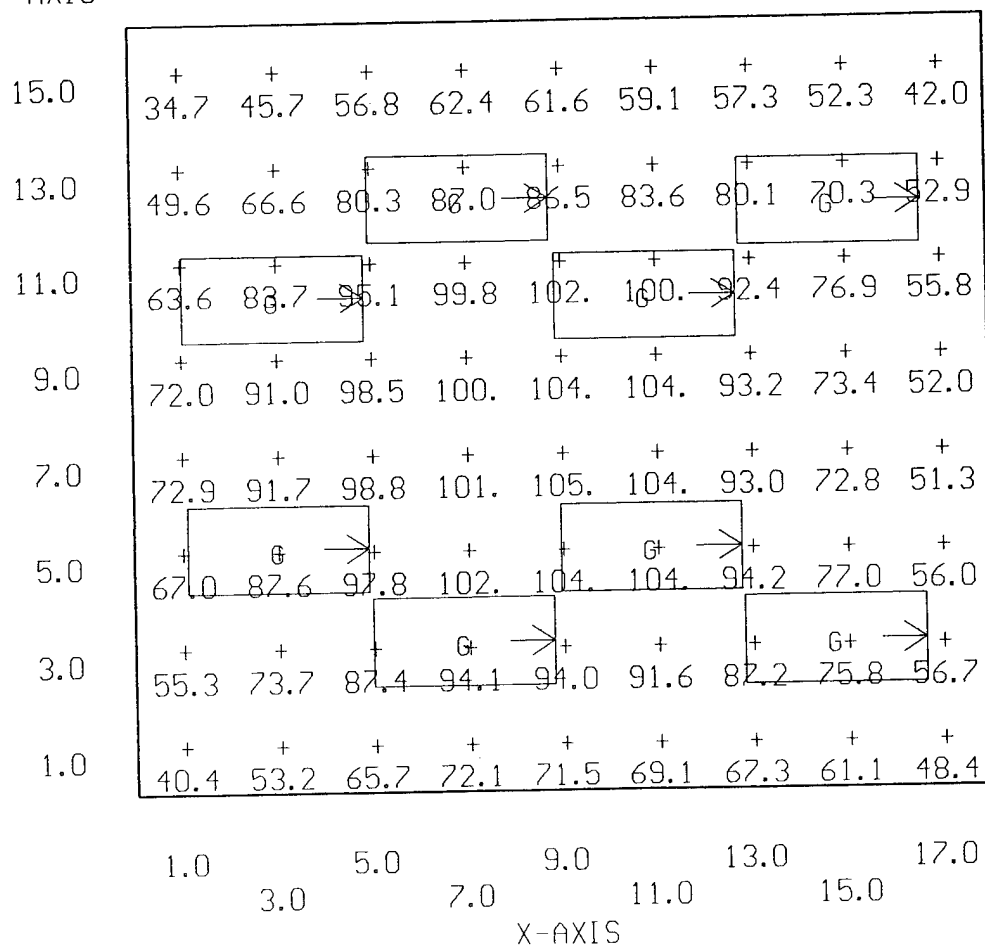
0.5 2.5 4.5 6.5 8.5 10.5
 X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:55 6-Jan-95
 PROJECT: 34-970 AREA: DIRECTOR GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=34.7 MAX=105. AVE=76.8 AVE/MIN= 2.22 MAX/MIN= 3.01

G <8> = 9975 COLUMBIA 4PS2*-52-242, (2) F40CW, LLF= 0.68

Y-AXIS

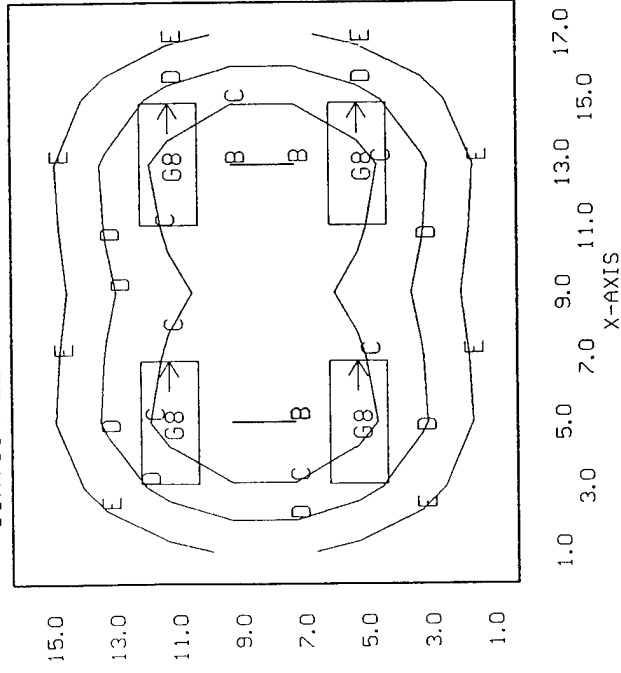


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 11:45 10-Mar-95
 PROJECT: 34-970 AREA: DIRECTOR-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 6.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=15.5 MAX=60.0 AVE=38.2 AVE/MIN= 2.46 MAX/MIN= 3.87

G8 <4> = 9868 COLUMBIA T84PS2*-84-242-2EOCT, <2> F032/31K, LLF= 0.66

Y-AXIS CONTOUR LEVELS: A= 70.0 B= 60.0 C= 50.0 D= 40.0 E= 30.0

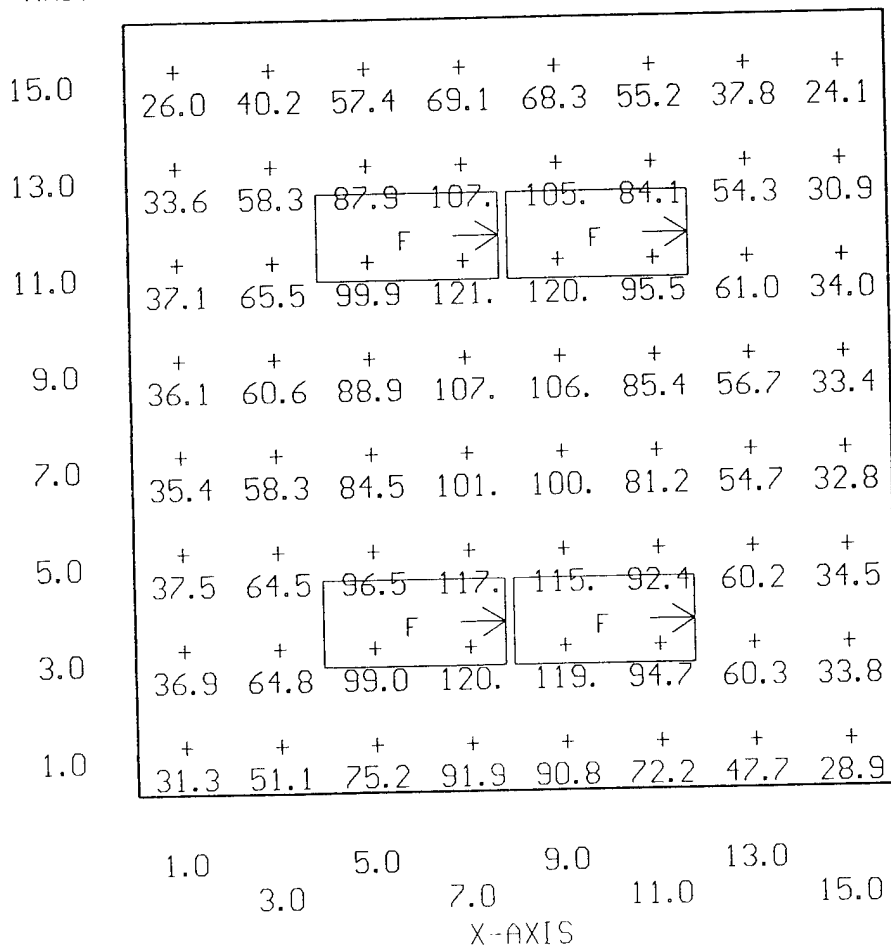


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:59 6-Jan-95
 PROJECT: 34-970 AREA: ADMIN OFFICE GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=24.1 MAX=121. AVE=69.2 AVE/MIN= 2.87 MAX/MIN= 5.03

F <4> = 9753 COLUMBIA 4PS2*-87-244, (4) F40CW, LLF= 0.68

Y-AXIS

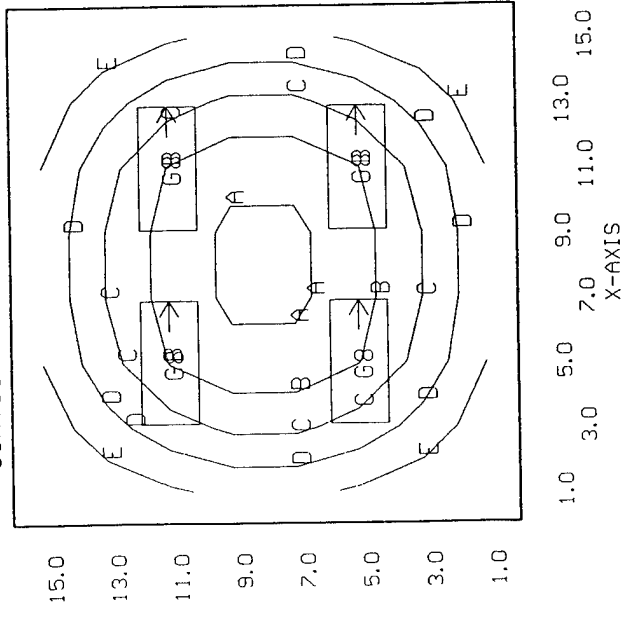


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 11:48 10-Mar-95
 PROJECT: 34-970 AREA: ADMIN OFFICE-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 6.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=16.6 MAX=72.1 AVE=42.7 AVE/MIN= 2.58 MAX/MIN= 4.36

G8 <4> = 9868 COLUMBIA T84PS2*-84-242-2E0CT, <2> F032/31K, LLF= 0.66

CONTOUR LEVELS: A= 70.0 B= 60.0 C= 50.0 D= 40.0 E= 30.0

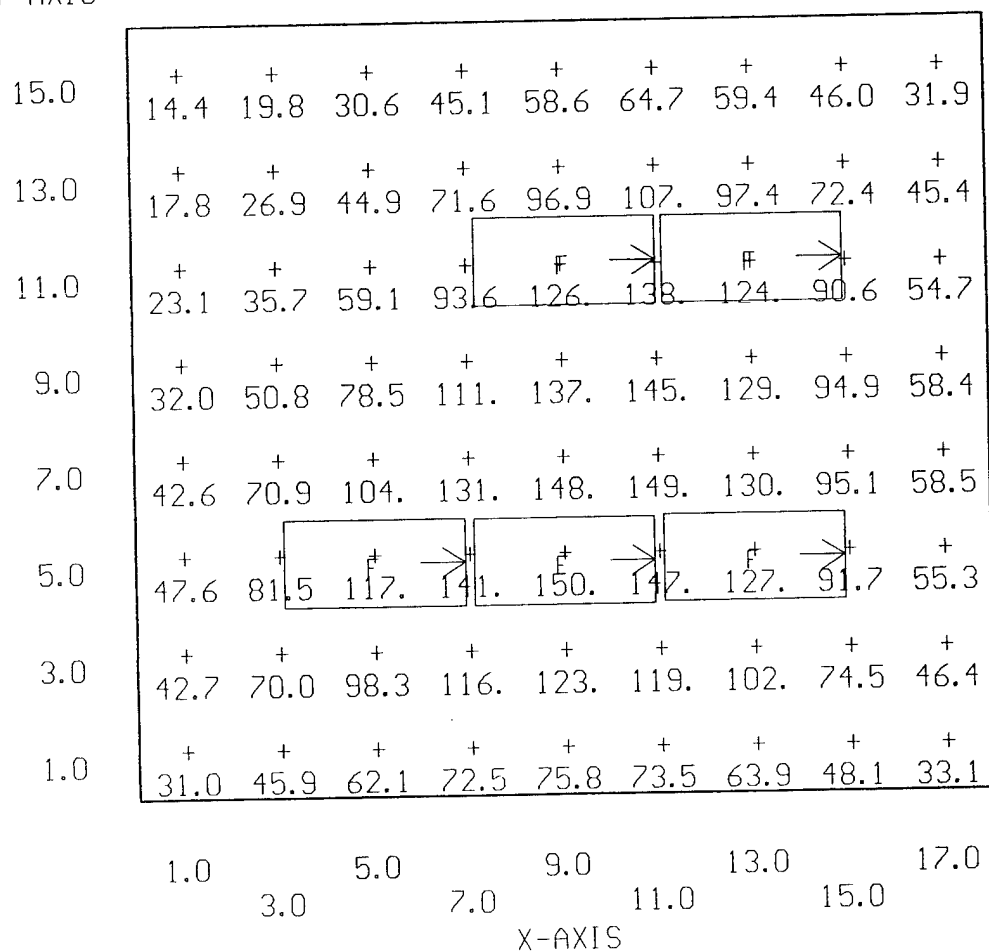


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 15:05 6-Jan-95
 PROJECT: 34-970 AREA: CONF ROOM GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=14.4 MAX=150. AVE=79.4 AVE/MIN= 5.53 MAX/MIN= 10.47

F <5> = 9753 COLUMBIA 4PS2*-87-244, <4> F40CW, LLF= 0.68

Y-AXIS

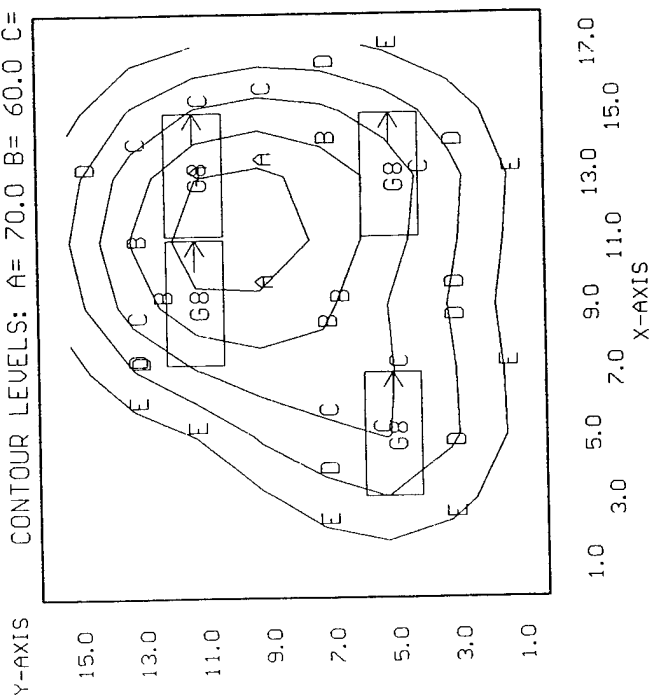


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 11:53 10-Mar-95
 PROJECT: 34-970 AREA: CONF ROOM-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 6.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=6.63 MAX=76.0 AVE=38.4 AVE/MIN= 5.80 MAX/MIN= 11.45

G8 <4> = 9868 COLUMBIA T84PS2*-84-242-2E0CT, <2> F032/31K, LLF= 0.66

CONTOUR LEVELS: A= 70.0 B= 60.0 C= 50.0 D= 40.0 E= 30.0

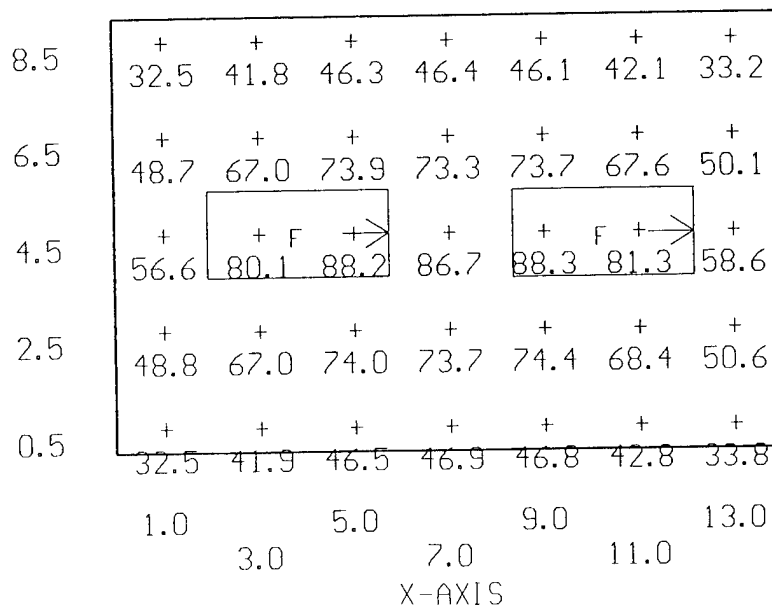


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 15:08 6-Jan-95
 PROJECT: 34-970 AREA: FILE ROOM GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=32.5 MAX=88.3 AVE=58.0 AVE/MIN= 1.78 MAX/MIN= 2.71

F <2> = 9753 COLUMBIA 4PS2*-87-244, (4) F40CW, LLF= 0.68

Y-AXIS



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 11:55 10-Mar-95
 PROJECT: 34-970 AREA: FILE ROOM-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=6.28 MAX=41.9 AVE=19.0 AVE/MIN= 3.02 MAX/MIN= 6.68

68 <1> = 9868 COLUMBIA T84PS2*-84-242-2E0CT, <2> F032/31K, LLF= 0.66

Y-AXIS

8.5	+	6.63	12.1	19.6	22.6	19.0	11.4	6.28	+
6.5	+	9.54	18.6	29.5	34.5	28.6	17.6	8.88	+
4.5	+	10.4	21.2	35.0	41.9	33.8	20.0	9.64	+
2.5	+	9.59	18.7	29.7	34.8	28.8	17.7	8.93	+
0.5	+	6.69	12.2	19.9	22.8	19.3	11.5	6.33	+

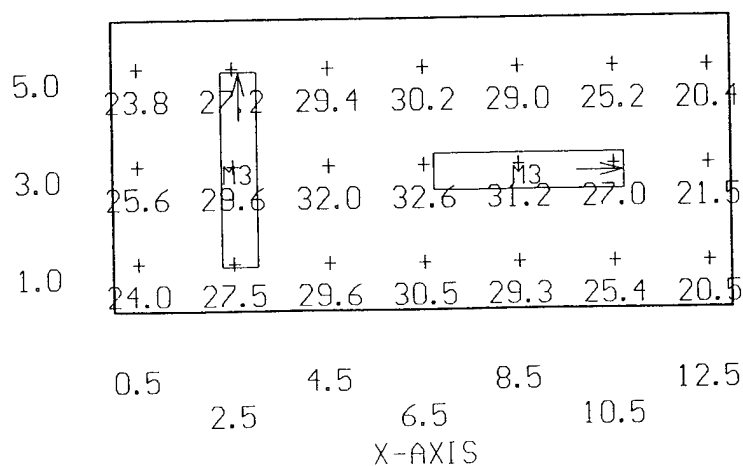
1.0 3.0 5.0 7.0 9.0 11.0 13.0
 X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 15:15 6-Jan-95
 PROJECT: 34-970 AREA: COPIER ROOM GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=20.4 MAX=32.6 AVE=27.2 AVE/MIN= 1.33 MAX/MIN= 1.59

M3 <2> = K8966 COLUMBIA K440-T, <4> F40CW, LLF= 0.36

Y-AXIS

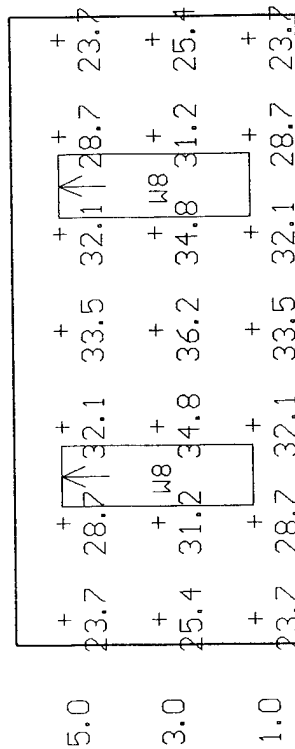


USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:03 10-Mar-95
 PROJECT: 34-970 AREA: COPIER ROOM-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=23.7 MAX=36.2 AVE=29.7 AVE/MIN= 1.25 MAX/MIN= 1.53

W8 <2> = K9604 COLUMBIA WCW240-A, <2> F032/35K, LLF= 0.66

Y-AXIS



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 15:21 6-Jan-95
 PROJECT: 34-970 AREA: STORAGE ROOM GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=21.2 MAX=34.6 AVE=29.5 AVE/MIN= 1.39 MAX/MIN= 1.64

A <2> = K9604 COLUMBIA WCW240-A, <2> F40CW, LLF= 0.68

Y-AXIS

5.0	+	4.7	+	29.6	+	32.3	+	32.8	+	32.5	+	30.9	+	26.5	+	21.2
3.0	+	26.0	+	31.6	+	34.3	+	34.6	+	34.4	+	32.8	+	28.2	+	22.1
1.0	+	25.0	+	30.0	+	32.7	+	33.1	+	32.9	+	31.3	+	26.8	+	21.4

0.5 2.5 4.5 6.5 8.5 10.5 12.5 14.5
 X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:05 10-Mar-95
 PROJECT: 34-970 AREA: STORAGE ROOM-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=18.9 MAX=30.9 AVE=26.3 AVE/MIN= 1.39 MAX/MIN= 1.64

W8 <2> = K9604 COLUMBIA WCW240-A, <2> F032/35K, LLF= 0.66

Y-AXIS

5.0	+	22.0	+	26.4	+	28.8	+	29.2	+	29.0	+	27.6	+	23.6	+	18.9
3.0	+	23.2	+	28.2	+	30.6	+	30.9	+	30.7	+	29.3	+	25.1	+	19.7
1.0	+	22.3	+	26.8	+	29.2	+	29.6	+	29.4	+	27.9	+	23.9	+	19.1

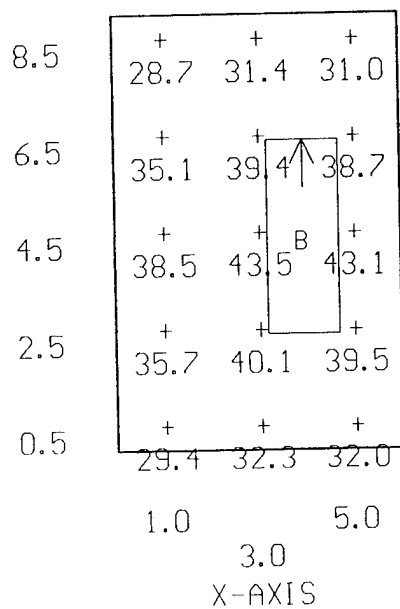
0.5 2.5 4.5 6.5 8.5 10.5 12.5 14.5
 X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 15:29 6-Jan-95
 PROJECT: 34-970 AREA: WOMEN'S LOUNGE GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=28.7 MAX=43.5 AVE=35.9 AVE/MIN= 1.25 MAX/MIN= 1.52

B <1> = K9691 COLUMBIA WPW440-A, <4> F40CW, LLF= 0.68

Y-AXIS



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:07 10-Mar-95
 PROJECT: 34-970 AREA: WOMENS LOUNGE-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=15.0 MAX=22.8 AVE=18.8 AVE/MIN= 1.25 MAX/MIN= 1.52

W8 <1> = K9604 COLUMBIA WCW240-A, <2> F032/35K, LLF= 0.66

Y-AXIS

8.5	+	+	+
	15.0	16.5	16.2
6.5	+	+	+
	18.4	20.7	20.3
4.5	+	+	+
	20.3	22.8	22.5
2.5	+	+	+
	18.7	21.0	20.7
0.5	+	+	+
	15.4	16.9	16.7

1.0 3.0 5.0

X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 15:45 6-Jan-95
 PROJECT: 34-970 AREA: RESTROOMS GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=1.08 MAX=15.1 AVE=8.66 AVE/MIN= 8.02 MAX/MIN= 13.95

X2 <2> = B1999A PRESCOLITE 1222-262, (1) 75A19/SW, LLF= 0.82

Y-AXIS

8.5	+	+
	1.09	1.08
6.5	+	+
	4.69	4.63
4.5	+	+
	10.9	10.7
2.5	+	+
	15.1	14.8
0.5	+	+
	12.0	11.8

1.0

3.0

X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:13 10-Mar-95
 PROJECT: 34-970 AREA: RESTROOMS-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=1.70 MAX=17.6 AVE=7.99 AVE/MIN= 4.70 MAX/MIN= 10.34

CF <2> = B1777A PRESCOLITE CF123526-462, (1) F260TT/27K, LLF= 0.50

Y-AXIS

8.5	+	+
	1.71	1.70
6.5	+	+
	3.62	3.59
4.5	+	+
	8.49	8.29
2.5	+	+
	17.6	16.6
0.5	+	+
	9.25	9.03

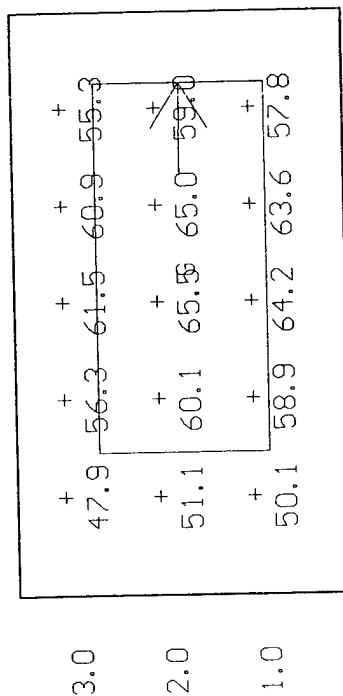
1.0 3.0
 X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 15:50 6-Jan-95
 PROJECT: 34-970 AREA: ALCOVE GRID: Ceiling
 Values are FC, SCALE: 1 IN= 2.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=47.9 MAX=65.5 AVE=58.5 AVE/MIN= 1.22 MAX/MIN= 1.37

G <1> = 9975 COLUMBIA 4PS2*-52-242, (2) F40CW, LLF= 0.68

Y-AXIS



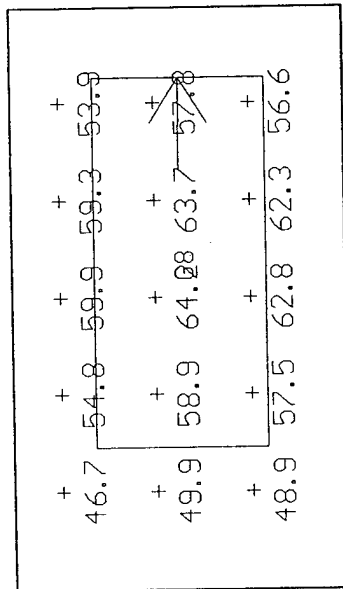
0.0 1.0 2.0 3.0 4.0 5.0 6.0
 X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:15 10-Mar-95
 PROJECT: 34-970 AREA: ALCOVE-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 2.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=46.7 MAX=64.2 AVE=57.1 AVE/MIN= 1.22 MAX/MIN= 1.38

G8 <1> = 9868 COLUMBIA T84PS2*-84-242-2EOCT, <2> F032/31K, LLF= 0.66

Y-AXIS



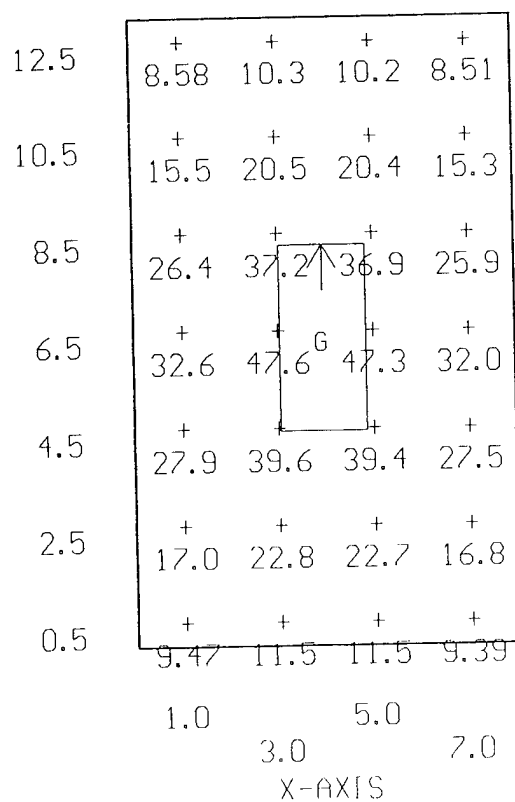
0.0 1.0 2.0 3.0 4.0 5.0 6.0
 X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:07 6-Jan-95
 PROJECT: 34-970 AREA: KITCHEN GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=8.51 MAX=47.6 AVE=23.2 AVE/MIN= 2.73 MAX/MIN= 5.59

G (1) = 9975 COLUMBIA 4PS2*-52-242, (2) F40CW, LLF= 0.68

Y-AXIS



USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:17 10-Mar-95
 PROJECT: 34-970 AREA: KITCHEN-N GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=7.24 MAX=47.3 AVE=22.7 AVE/MIN= 3.13 MAX/MIN= 6.53

G8 (1) = 9868 COLUMBIA T84PS2*-8*-242-2E0CT, (2) F032/3IK, LLF= 0.66

Y-AXIS

12.5	+	7.32	9.16	9.14	7.24	+
10.5	+	14.8	20.2	20.1	14.5	+
8.5	+	26.3	36.9	36.7	25.8	+
6.5	+	32.5	47.3	46.9	31.9	+
4.5	+	27.9	39.4	39.1	27.4	+
2.5	+	16.4	22.6	22.4	16.1	+
0.5	+	8.21	10.5	10.4	8.11	+

1.0 3.0 5.0 7.0
 X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 16:12 6-Jan-95
 PROJECT: 34-970 AREA: HALLWAY GRID: Ceiling
 Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
 Computed in accordance with IES recommendations

+ MIN=12.4 MAX=46.3 AVE=28.9 AVE/MIN= 2.33 MAX/MIN= 3.74

G <2> = 9975 COLUMBIA 4PS2*-52-242, <2> F40CW, LLF= 0.68

Y-AXIS

3.0	15.3	24.5	37.1	44.9	39.5	27.3	18.6	16.7	21.1	31.4	42.5	43.2	32.4	20.1	12.4
1.0	15.7	25.1	38.2	46.3	40.6	27.9	18.9	17.0	21.7	32.3	44.0	44.7	33.3	20.6	12.6

1.0	3.0	5.0	7.0	9.0	11.0	13.0	15.0	17.0	19.0	21.0	23.0	25.0	27.0	29.0

X-AXIS

USI's LITE*PRO V2.27E Point-By-Point Numeric Output 14:19 10-Mar-95
PROJECT: 34-970 AREA: HALLWAY-N GRID: Ceiling
Values are FC, SCALE: 1 IN= 4.0FT, HORZ GRID (U), HORZ CALC, Z= 2.5
Computed in accordance with IES recommendations

+ MIN=10.8	MAX=45.3	AVE=27.5	AVE/MIN=	2.55	MAX/MIN=	4.20

98 <2> = 9868 COLUMBIA T84PS2*-84-242-2E0CT, <2> F032/31K, LLF= 0.66

Y-AXIS

[illegible]

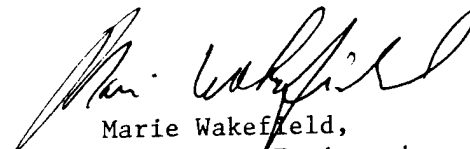


DEPARTMENT OF THE ARMY
CONSTRUCTION ENGINEERING RESEARCH LABORATORIES, CORPS OF ENGINEERS
P.O. BOX 9005
CHAMPAIGN, ILLINOIS 61826-9005

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