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5 FEB 2010 - S M

Staffs Moorlands Leisure Centre

MUGA 60 x 40metres

Date: 03-02-2009

Designer: Andrew Poplett

Description: COLUMNS

* 6 X 10.0 METRE

LUMINAIRES - REQUIRE 400V ELECTRICAL SUPPLY

* 8 X PHILIPS 'OPTIVISION' MVP507 WB MHN-LA2000W/842 400V

The nominal values shown in this report are the result of precision calculations, based upon precisely positioned luminaires in a fixed relationship to each other and to the area under examination. In practice the values may vary due to tolerances on luminaires, luminaire positioning, reflection properties and electrical supply.

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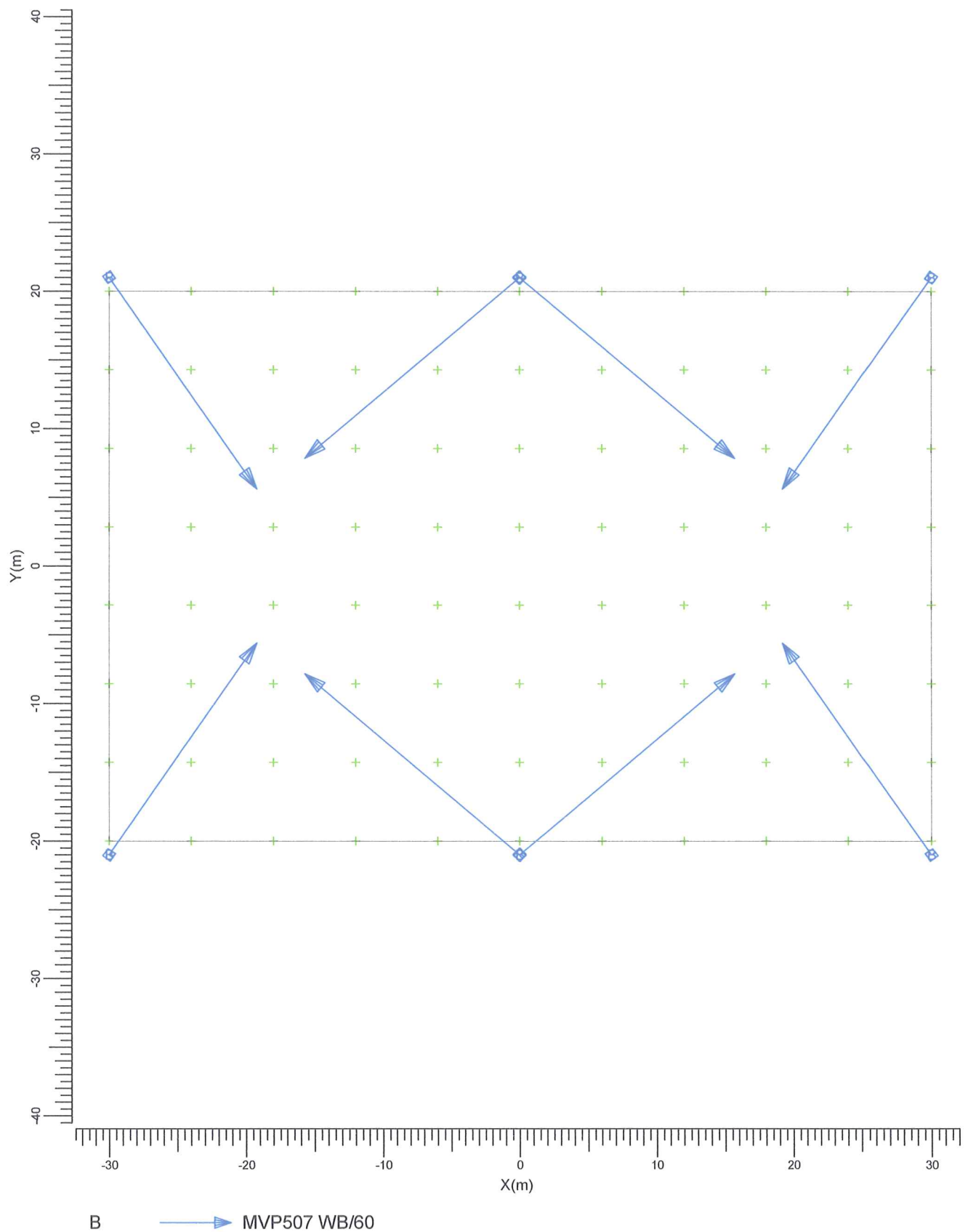
CalcuLuX Area 6.7.2

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1. Project Description

1.1 Top Project Overview



Scale
1:400

2. Summary

2.1 General Information

The overall maintenance factor used for this project is 0.80.

2.2 Project Luminaires

Code	Qty	Luminaire Type	Lamp Type	Power (W)	Flux (lm)
B	8	MVP507 WB/60	1 * MHN-LA2000W/400V/842	2123.0	1 * 220000

The total installed power: 16.98 (kWatt)

Number of Luminaires Per Arrangement:

Arrangement	Luminaire Code	Power (kWatt)
	B	
Point	4	8.49
Point1	4	8.49

2.3 Calculation Results

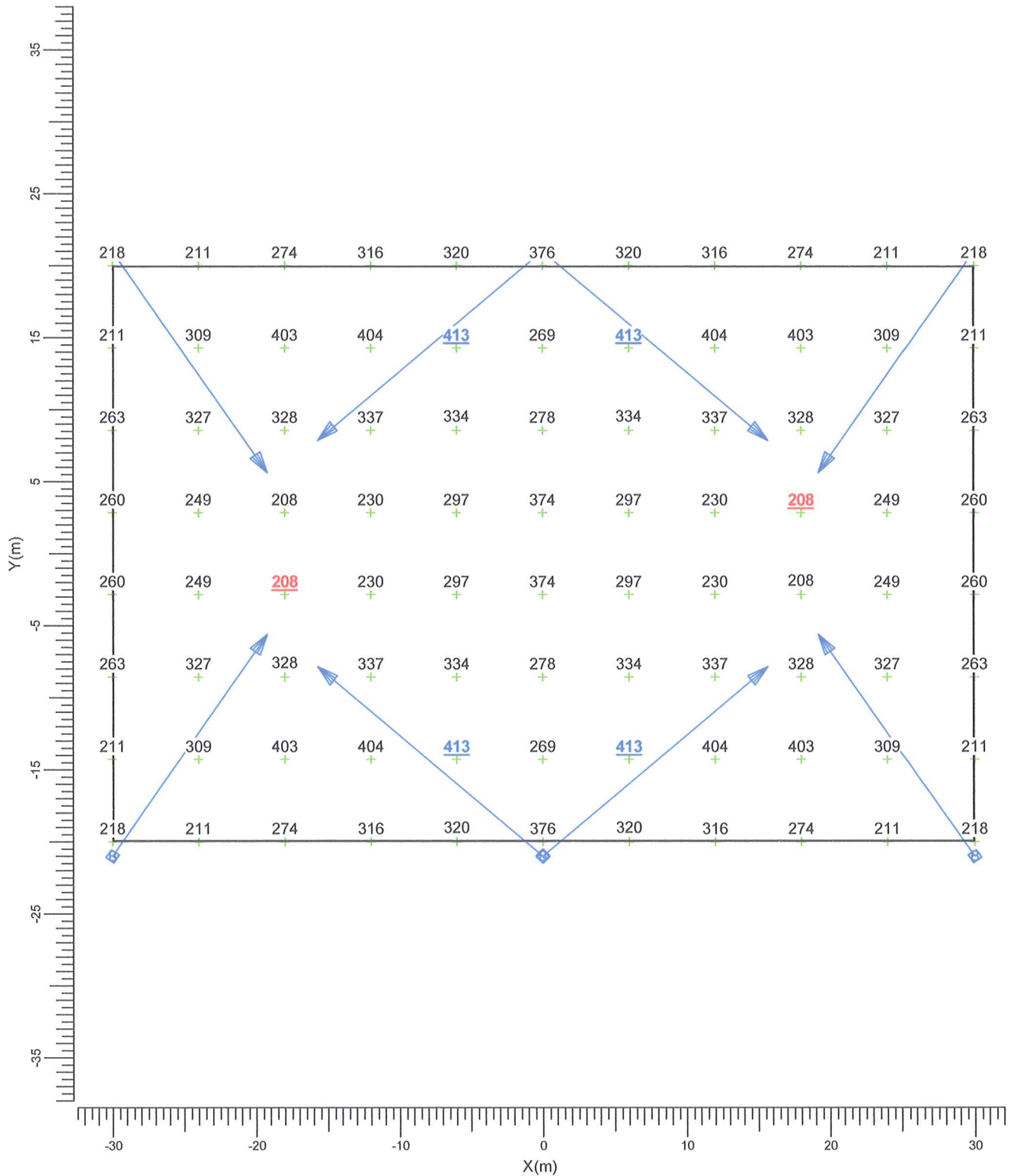
(II)luminance Calculations:

Calculation	Type	Unit	Ave	Min/Ave	Min/Max
General	Surface Illuminance	lux	298	0.70	0.50

3. Calculation Results

3.1 General: Graphical Table

Grid : General at Z = -0.00 m
 Calculation : Surface Illuminance (lux)



B → MVP507 WB/60

Average
298

Min/Ave
0.70

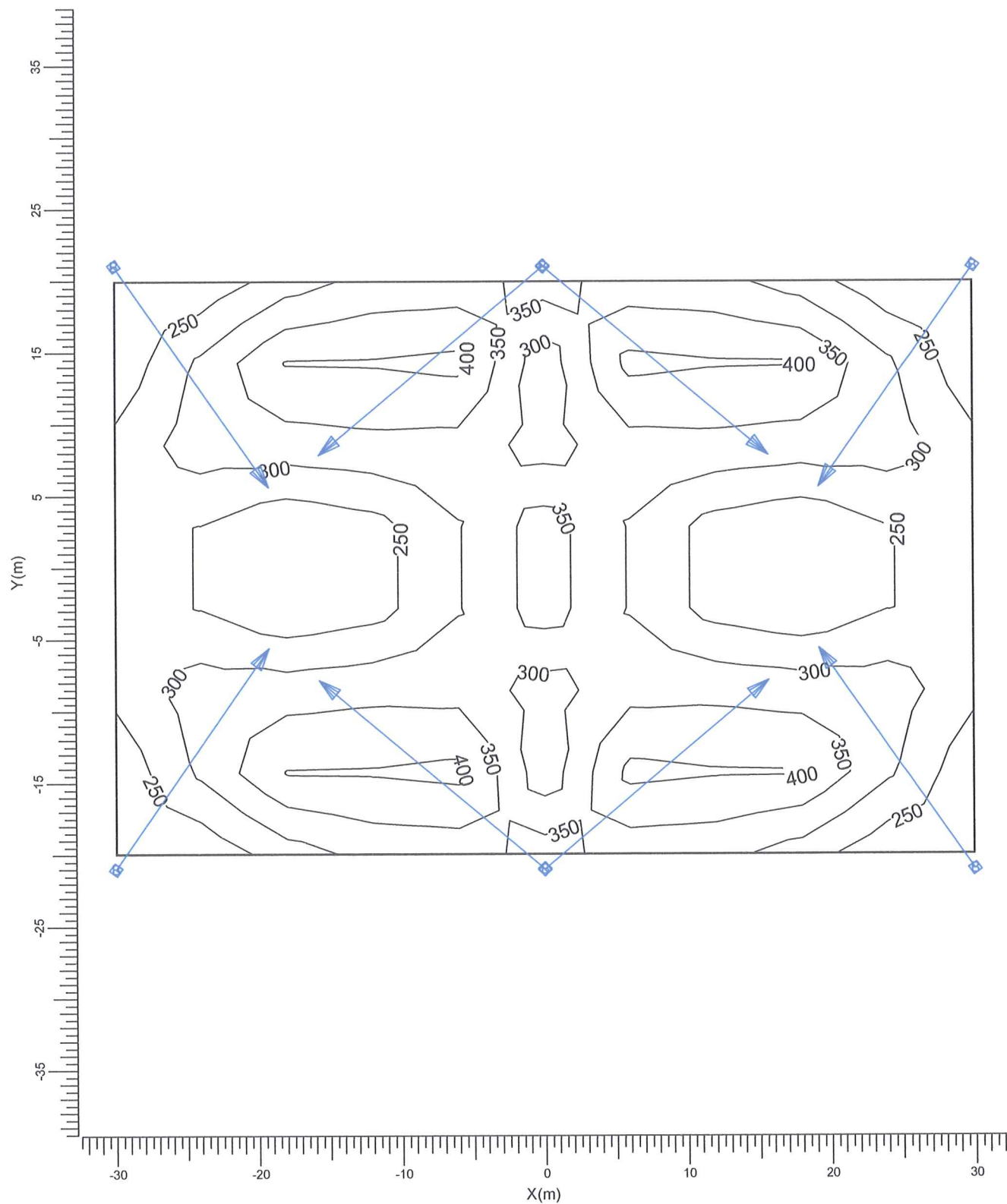
Min/Max
0.50

Project maintenance factor
0.80

Scale
1:400

3.2 General: Iso Contour

Grid : General at Z = -0.00 m
Calculation : Surface Illuminance (lux)



B ———> MVP507 WB/60

Average 298	Min/Ave 0.70	Min/Max 0.50	Project maintenance factor 0.80	Scale 1:400
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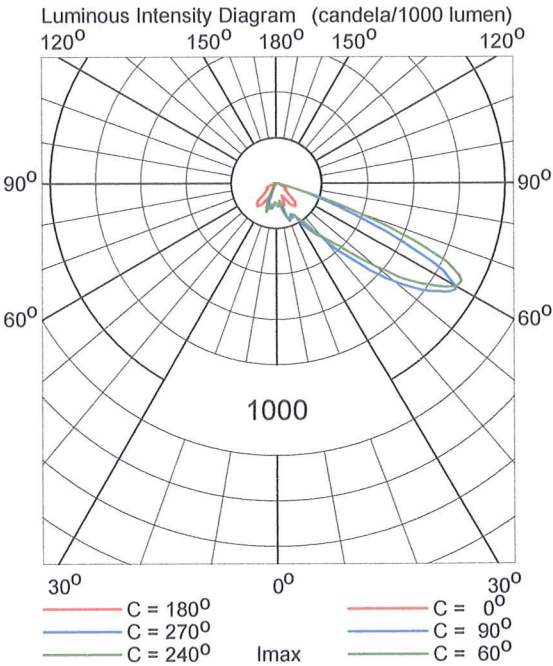
4. Luminaire Details

4.1 Project Luminaires

OPTIVISION MVP507 1xMHN-LA2000W/400V/842 WB/60



Light output ratios	:	
DLOR	:	0.80
ULOR	:	0.00
TLOR	:	0.80
Ballast	:	Standard
Lamp flux	:	220000 lm
Luminaire wattage	:	2123.0 W
Measurement code	:	LVMA107700



5. Installation Data

5.1 Legends

Project Luminaires:

Code	Qty	Luminaire Type	Lamp Type	Flux (lm)
B	8	MVP507 WB/60	1 * MHN-LA2000W/400V/842	1 * 220000

5.2 Luminaire Positioning and Orientation

Qty and Code	Position			Aiming Points			Aiming Angles		
	X (m)	Y (m)	Z (m)	X (m)	Y (m)	Z (m)	Rot.	Tilt90	Tilt0
1 * B	-30.00	-21.00	10.00	-19.21	-5.59	0.00	55.0	62.0	0.0
1 * B	-30.00	21.00	10.00	-19.21	5.59	0.00	-55.0	62.0	-0.0
1 * B	-0.00	-21.00	10.00	15.71	-7.82	0.00	40.0	64.0	0.0
1 * B	-0.00	-21.00	10.00	-15.71	-7.82	0.00	140.0	64.0	-0.0
1 * B	-0.00	21.00	10.00	15.71	7.82	0.00	-40.0	64.0	-0.0
1 * B	-0.00	21.00	10.00	-15.71	7.82	0.00	-140.0	64.0	0.0
1 * B	30.00	-21.00	10.00	19.21	-5.59	0.00	125.0	62.0	-0.0
1 * B	30.00	21.00	10.00	19.21	5.59	0.00	-125.0	62.0	0.0