

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : MPN1209LEDGV-15L35KE1-FJ1XXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] REPORT NO. 101650171CRT-029\_M-15L-35K

[TESTLAB] Intertek

[ISSUE DATE] 08/22/2015

[UPDATE] 07/12/2016

[MANUFAC] Spectrum Lighting

[LAB-REF LUMCAT] CRT1508111136-002\_M-15L-35K

[LUMCAT] MPN1209LEDGV-15L-35K-E1-FJ1-xx-MW

[LUMINAIRE] LED Mini-Pier RLM Light, frosted glass Jar

[OTHER] 12" Dia. Reflector, inside finish, Matte White powdercoat

[OTHER] "xx" designation: Various driver compartments available

[OTHER] Expressive, stacked white metal rings

[LAMP] N/A

[LAMPCAT] N/A

[OTHER] Total Luminaire Watts is approximate

[OTHER] CCT Output Multipliers: 5000K x 1.07, 4000K X 1.03, 3000K X 0.983, 2700K X 0.967

[OTHER] This report updated by Spectrum Lighting, scaled from Gen1 14W-30K

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	664
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	59
Total Luminaire Watts	11.3
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	0.70
Spacing Criterion (90-270)	0.72
Spacing Criterion (Diagonal)	0.88
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.00 ft (Diameter)
Luminous Width (90-270)	1.00 ft (Diameter)
Luminous Height	0.58 ft

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	967	858	965
55	1535	1330	1413
65	1381	1159	1241
75	906	820	693
85	629	561	366

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
<b>0.0</b>	227.3	227.3	227.3	227.3	227.3	227.3	227.3	227.3	227.3	227.3
<b>2.5</b>	224.9	225.4	225.3	225.4	225.9	225.4	225.3	225.4	224.9	225.4
<b>5.0</b>	216.6	216.7	217.9	218.5	218.5	218.5	217.9	216.7	216.6	216.7
<b>7.5</b>	203.1	204.6	204.7	206.0	206.1	206.0	204.7	204.6	203.1	204.6
<b>10.0</b>	186.9	187.7	189.2	189.5	190.6	189.5	189.2	187.7	186.9	187.7
<b>12.5</b>	170.0	171.5	172.5	173.0	173.8	173.0	172.5	171.5	170.0	171.5
<b>15.0</b>	154.9	157.4	156.7	158.1	158.4	158.1	156.7	157.4	154.9	157.4
<b>17.5</b>	141.3	142.0	142.7	143.2	143.7	143.2	142.7	142.0	141.3	142.0
<b>20.0</b>	129.8	129.4	130.5	132.3	132.1	132.3	130.5	129.4	129.8	129.4
<b>22.5</b>	116.6	121.3	120.3	123.3	123.8	123.3	120.3	121.3	116.6	121.3
<b>25.0</b>	112.1	111.1	109.8	113.4	113.9	113.4	109.8	111.1	112.1	111.1
<b>27.5</b>	103.1	104.0	104.2	105.8	104.9	105.8	104.2	104.0	103.1	104.0
<b>30.0</b>	97.4	99.6	97.8	99.3	99.6	99.3	97.8	99.6	97.4	99.6
<b>32.5</b>	91.6	92.0	91.1	93.0	90.7	93.0	91.1	92.0	91.6	92.0
<b>35.0</b>	85.7	86.3	86.2	85.7	83.4	85.7	86.2	86.3	85.7	86.3
<b>37.5</b>	80.7	83.3	82.0	83.7	82.0	83.7	82.0	83.3	80.7	83.3
<b>40.0</b>	81.0	79.3	79.0	80.4	80.2	80.4	79.0	79.3	81.0	79.3
<b>42.5</b>	81.3	80.6	76.4	81.1	81.7	81.1	76.4	80.6	81.3	80.6
<b>45.0</b>	86.8	85.1	77.0	86.0	86.6	86.0	77.0	85.1	86.8	85.1
<b>47.5</b>	92.8	88.1	88.4	89.8	92.6	89.8	88.4	88.1	92.8	88.1
<b>50.0</b>	104.3	99.6	94.5	102.0	106.3	102.0	94.5	99.6	104.3	99.6
<b>52.5</b>	123.3	112.3	106.9	118.7	118.9	118.7	106.9	112.3	123.3	112.3
<b>55.0</b>	132.1	119.8	114.5	121.5	121.6	121.5	114.5	119.8	132.1	119.8
<b>57.5</b>	135.5	119.4	115.0	119.4	121.8	119.4	115.0	119.4	135.5	119.4
<b>60.0</b>	130.7	118.3	109.7	117.1	114.6	117.1	109.7	118.3	130.7	118.3
<b>62.5</b>	122.2	109.4	100.3	109.7	106.4	109.7	100.3	109.4	122.2	109.4
<b>65.0</b>	110.1	98.4	92.4	98.4	99.0	98.4	92.4	98.4	110.1	98.4
<b>67.5</b>	96.5	85.2	82.9	87.7	87.7	87.7	82.9	85.2	96.5	85.2
<b>70.0</b>	82.1	76.8	72.3	78.0	75.7	78.0	72.3	76.8	82.1	76.8
<b>72.5</b>	71.9	69.0	64.6	72.8	60.7	72.8	64.6	69.0	71.9	69.0
<b>75.0</b>	64.3	62.8	58.2	64.6	49.2	64.6	58.2	62.8	64.3	62.8
<b>77.5</b>	57.5	56.3	51.9	56.8	41.5	56.8	51.9	56.3	57.5	56.3
<b>80.0</b>	51.1	50.5	44.7	48.9	33.3	48.9	44.7	50.5	51.1	50.5
<b>82.5</b>	42.9	44.2	39.1	43.0	26.7	43.0	39.1	44.2	42.9	44.2
<b>85.0</b>	37.8	39.5	33.7	36.8	22.0	36.8	33.7	39.5	37.8	39.5
<b>87.5</b>	33.4	35.8	29.9	32.6	18.7	32.6	29.9	35.8	33.4	35.8
<b>90.0</b>	29.6	32.4	26.7	28.9	16.1	28.9	26.7	32.4	29.6	32.4
<b>92.5</b>	27.7	30.5	25.6	26.8	14.6	26.8	25.6	30.5	27.7	30.5
<b>95.0</b>	27.3	29.9	25.4	26.2	14.2	26.2	25.4	29.9	27.3	29.9
<b>97.5</b>	27.5	29.5	25.4	25.2	14.6	25.2	25.4	29.5	27.5	29.5
<b>100.0</b>	27.8	29.2	25.9	24.8	15.6	24.8	25.9	29.2	27.8	29.2
<b>102.5</b>	28.3	29.2	26.3	24.7	17.4	24.7	26.3	29.2	28.3	29.2
<b>105.0</b>	28.9	29.3	27.0	25.4	19.1	25.4	27.0	29.3	28.9	29.3
<b>107.5</b>	29.1	29.3	27.3	25.6	20.4	25.6	27.3	29.3	29.1	29.3
<b>110.0</b>	29.4	29.5	27.0	25.5	21.7	25.5	27.0	29.5	29.4	29.5
<b>112.5</b>	29.6	29.5	26.8	25.3	22.2	25.3	26.8	29.5	29.6	29.5
<b>115.0</b>	29.4	29.0	26.5	24.9	22.1	24.9	26.5	29.0	29.4	29.0
<b>117.5</b>	29.2	25.7	26.2	24.6	22.1	24.6	26.2	25.7	29.2	25.7
<b>120.0</b>	29.0	21.7	25.4	24.2	21.9	24.2	25.4	21.7	29.0	21.7
<b>122.5</b>	28.5	19.2	24.3	24.0	21.5	24.0	24.3	19.2	28.5	19.2
<b>125.0</b>	28.1	16.9	22.2	23.5	21.3	23.5	22.2	16.9	28.1	16.9
<b>127.5</b>	27.4	16.7	20.5	23.0	20.9	23.0	20.5	16.7	27.4	16.7
<b>130.0</b>	27.1	17.4	18.3	22.2	20.5	22.2	18.3	17.4	27.1	17.4
<b>132.5</b>	26.2	18.5	15.6	21.1	19.9	21.1	15.6	18.5	26.2	18.5

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**CANDELA TABULATION - (Cont.)**

135.0	25.2	19.4	12.3	19.7	18.8	19.7	12.3	19.4	25.2	19.4
137.5	23.4	18.9	9.2	17.6	17.1	17.6	9.2	18.9	23.4	18.9
140.0	21.2	17.2	6.5	14.7	15.0	14.7	6.5	17.2	21.2	17.2
142.5	18.2	14.6	4.8	11.4	12.2	11.4	4.8	14.6	18.2	14.6
145.0	14.4	10.2	3.2	8.1	9.5	8.1	3.2	10.2	14.4	10.2
147.5	9.3	6.4	1.7	5.3	7.1	5.3	1.7	6.4	9.3	6.4
150.0	6.3	4.9	1.7	3.1	4.2	3.1	1.7	4.9	6.3	4.9
152.5	4.3	2.4	1.6	1.9	2.7	1.9	1.6	2.4	4.3	2.4
155.0	1.9	1.6	1.2	0.9	1.5	0.9	1.2	1.6	1.9	1.6
157.5	1.6	1.6	1.1	0.9	0.8	0.9	1.1	1.6	1.6	1.6
160.0	1.3	1.1	0.9	0.6	0.6	0.6	0.9	1.1	1.3	1.1
162.5	1.0	0.9	0.6	0.5	0.4	0.5	0.6	0.9	1.0	0.9
165.0	0.6	0.6	0.4	0.4	0.2	0.4	0.4	0.6	0.6	0.6
167.5	0.0	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.0	0.1
170.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Vert. Angles	Horizontal Angles						
	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	227.3	227.3	227.3	227.3	227.3	227.3	227.3
2.5	225.3	225.4	225.9	225.4	225.3	225.4	224.9
5.0	217.9	218.5	218.5	218.5	217.9	216.7	216.6
7.5	204.7	206.0	206.1	206.0	204.7	204.6	203.1
10.0	189.2	189.5	190.6	189.5	189.2	187.7	186.9
12.5	172.5	173.0	173.8	173.0	172.5	171.5	170.0
15.0	156.7	158.1	158.4	158.1	156.7	157.4	154.9
17.5	142.7	143.2	143.7	143.2	142.7	142.0	141.3
20.0	130.5	132.3	132.1	132.3	130.5	129.4	129.8
22.5	120.3	123.3	123.8	123.3	120.3	121.3	116.6
25.0	109.8	113.4	113.9	113.4	109.8	111.1	112.1
27.5	104.2	105.8	104.9	105.8	104.2	104.0	103.1
30.0	97.8	99.3	99.6	99.3	97.8	99.6	97.4
32.5	91.1	93.0	90.7	93.0	91.1	92.0	91.6
35.0	86.2	85.7	83.4	85.7	86.2	86.3	85.7
37.5	82.0	83.7	82.0	83.7	82.0	83.3	80.7
40.0	79.0	80.4	80.2	80.4	79.0	79.3	81.0
42.5	76.4	81.1	81.7	81.1	76.4	80.6	81.3
45.0	77.0	86.0	86.6	86.0	77.0	85.1	86.8
47.5	88.4	89.8	92.6	89.8	88.4	88.1	92.8
50.0	94.5	102.0	106.3	102.0	94.5	99.6	104.3
52.5	106.9	118.7	118.9	118.7	106.9	112.3	123.3
55.0	114.5	121.5	121.6	121.5	114.5	119.8	132.1
57.5	115.0	119.4	121.8	119.4	115.0	119.4	135.5
60.0	109.7	117.1	114.6	117.1	109.7	118.3	130.7
62.5	100.3	109.7	106.4	109.7	100.3	109.4	122.2
65.0	92.4	98.4	99.0	98.4	92.4	98.4	110.1
67.5	82.9	87.7	87.7	87.7	82.9	85.2	96.5
70.0	72.3	78.0	75.7	78.0	72.3	76.8	82.1
72.5	64.6	72.8	60.7	72.8	64.6	69.0	71.9
75.0	58.2	64.6	49.2	64.6	58.2	62.8	64.3
77.5	51.9	56.8	41.5	56.8	51.9	56.3	57.5
80.0	44.7	48.9	33.3	48.9	44.7	50.5	51.1

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**CANDELA TABULATION - (Cont.)**

82.5	39.1	43.0	26.7	43.0	39.1	44.2	42.9
85.0	33.7	36.8	22.0	36.8	33.7	39.5	37.8
87.5	29.9	32.6	18.7	32.6	29.9	35.8	33.4
90.0	26.7	28.9	16.1	28.9	26.7	32.4	29.6
92.5	25.6	26.8	14.6	26.8	25.6	30.5	27.7
95.0	25.4	26.2	14.2	26.2	25.4	29.9	27.3
97.5	25.4	25.2	14.6	25.2	25.4	29.5	27.5
100.0	25.9	24.8	15.6	24.8	25.9	29.2	27.8
102.5	26.3	24.7	17.4	24.7	26.3	29.2	28.3
105.0	27.0	25.4	19.1	25.4	27.0	29.3	28.9
107.5	27.3	25.6	20.4	25.6	27.3	29.3	29.1
110.0	27.0	25.5	21.7	25.5	27.0	29.5	29.4
112.5	26.8	25.3	22.2	25.3	26.8	29.5	29.6
115.0	26.5	24.9	22.1	24.9	26.5	29.0	29.4
117.5	26.2	24.6	22.1	24.6	26.2	25.7	29.2
120.0	25.4	24.2	21.9	24.2	25.4	21.7	29.0
122.5	24.3	24.0	21.5	24.0	24.3	19.2	28.5
125.0	22.2	23.5	21.3	23.5	22.2	16.9	28.1
127.5	20.5	23.0	20.9	23.0	20.5	16.7	27.4
130.0	18.3	22.2	20.5	22.2	18.3	17.4	27.1
132.5	15.6	21.1	19.9	21.1	15.6	18.5	26.2
135.0	12.3	19.7	18.8	19.7	12.3	19.4	25.2
137.5	9.2	17.6	17.1	17.6	9.2	18.9	23.4
140.0	6.5	14.7	15.0	14.7	6.5	17.2	21.2
142.5	4.8	11.4	12.2	11.4	4.8	14.6	18.2
145.0	3.2	8.1	9.5	8.1	3.2	10.2	14.4
147.5	1.7	5.3	7.1	5.3	1.7	6.4	9.3
150.0	1.7	3.1	4.2	3.1	1.7	4.9	6.3
152.5	1.6	1.9	2.7	1.9	1.6	2.4	4.3
155.0	1.2	0.9	1.5	0.9	1.2	1.6	1.9
157.5	1.1	0.9	0.8	0.9	1.1	1.6	1.6
160.0	0.9	0.6	0.6	0.6	0.9	1.1	1.3
162.5	0.6	0.5	0.4	0.5	0.6	0.9	1.0
165.0	0.4	0.4	0.2	0.4	0.4	0.6	0.6
167.5	0.2	0.1	0.1	0.1	0.2	0.1	0.0
170.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	63.77	N.A.	9.60
0-30	115.68	N.A.	17.40
0-40	170.32	N.A.	25.70
0-60	341.38	N.A.	51.40
0-80	502.43	N.A.	75.70
0-90	541.54	N.A.	81.60
10-90	521.70	N.A.	78.60
20-40	106.55	N.A.	16.10
20-50	173.26	N.A.	26.10
40-70	267.71	N.A.	40.30
60-80	161.06	N.A.	24.30
70-80	64.40	N.A.	9.70
80-90	39.11	N.A.	5.90
90-110	55.99	N.A.	8.40
90-120	81.94	N.A.	12.30
90-130	101.79	N.A.	15.30
90-150	121.24	N.A.	18.30
90-180	122.24	N.A.	18.40
110-180	66.25	N.A.	10.00
0-180	663.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	19.84
10-20	43.93
20-30	51.91
30-40	54.64
40-50	66.71
50-60	104.35
60-70	96.66
70-80	64.40
80-90	39.11
90-100	28.21
100-110	27.78
110-120	25.95
120-130	19.85
130-140	13.94
140-150	5.51
150-160	0.87
160-170	0.13
170-180	0.00

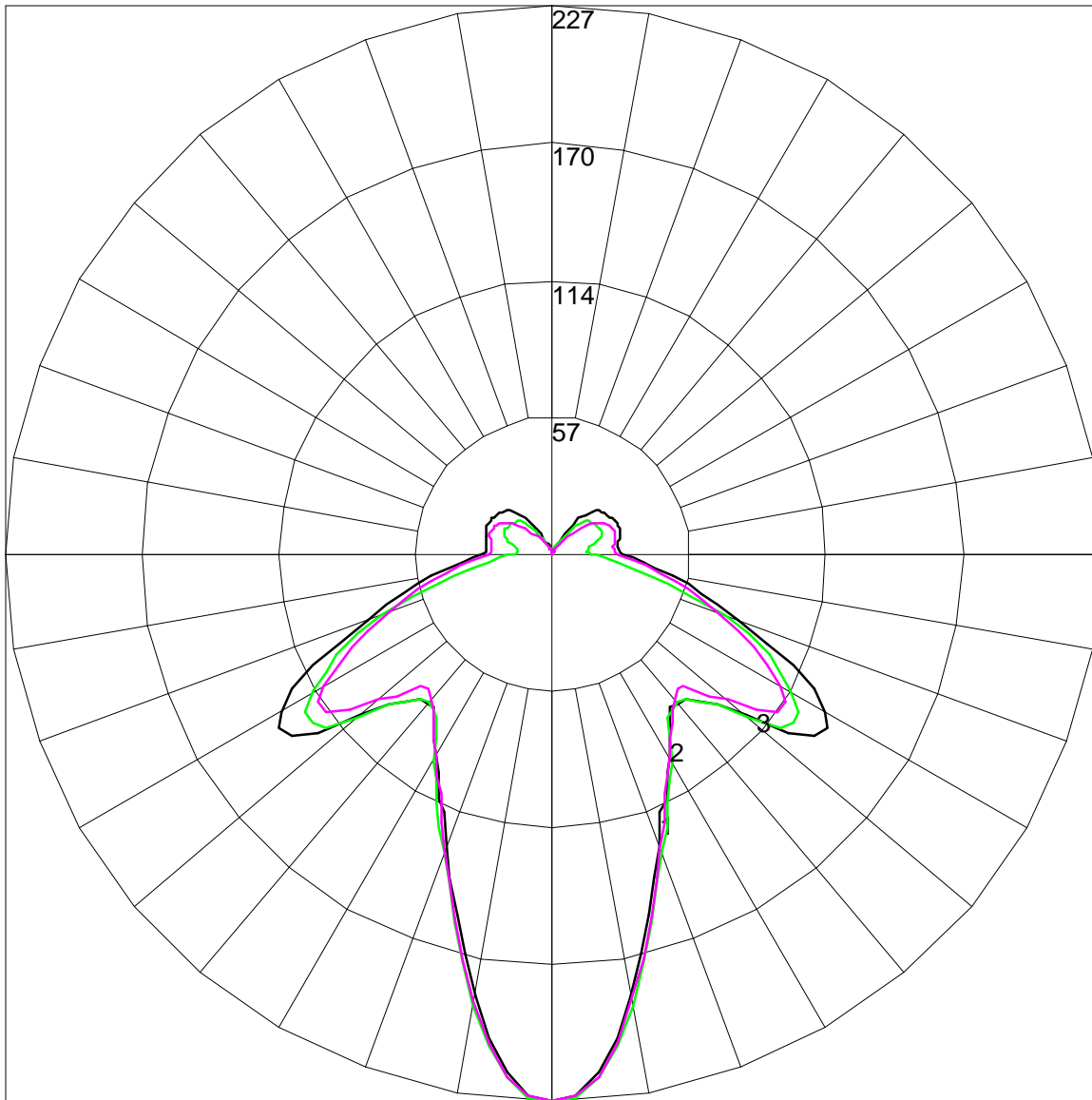
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	115	115	115	115	110	110	110	110	101	101	101	93	93	93	85	85	85	82
1	102	96	91	86	97	92	87	83	84	80	77	77	74	71	70	68	66	62
2	91	82	74	67	87	78	71	65	71	65	60	65	60	56	60	56	52	49
3	82	70	61	54	78	67	59	52	62	55	49	56	51	46	51	47	43	40
4	75	61	52	45	71	59	50	43	54	47	41	49	43	38	45	40	36	33
5	68	54	45	38	65	52	43	37	48	40	34	44	37	32	40	35	30	28
6	63	49	39	32	60	47	38	32	43	35	30	40	33	28	36	31	26	24
7	58	44	35	28	55	42	34	28	39	32	26	36	29	25	33	28	23	21
8	54	40	31	25	51	38	30	24	36	28	23	33	27	22	30	25	21	19
9	50	37	28	23	48	35	27	22	33	26	21	30	24	20	28	23	19	17
10	47	34	26	20	45	33	25	20	30	24	19	28	22	18	26	21	17	15

POLAR GRAPH



Maximum Candela = 227.3 Located At Horizontal Angle = 0, Vertical Angle = 0

- # 1 - Vertical Plane Through Horizontal Angles (0 - 180)
- # 2 - Vertical Plane Through Horizontal Angles (90 - 270)
- # 3 - Vertical Plane Through Horizontal Angles (45 - 225)