

IES INDOOR REPORT**PHOTOMETRIC FILENAME : ALDDH16LEDLX-100L35KEX-AL16SG-MD.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST]
[TESTLAB] Intertek
[ISSUE DATE] 11/07/2016
[UPDATE] 12/21/2016
[LAB-REF LUMCAT] CRT1611020944-001_M-Gen >11/03/2016
[MANUFAC] Spectrum Lighting
[LUMCAT] ALDDH16LEDLX-100L-35K-EX-AL16-SG-MD
[LUMINAIRE] 16" Diam. LED Aluminum Mini-Bay, Open Aperture
[OTHER] Semi-Diffuse, Clear Anodized Inner Reflector, Medium Beam
[OTHER] 46.7 Degree Beam Angle
[OTHER] Tested at 120v
[LAMP] N/A
[LAMPCAT] N/A
[OTHER] Total Luminaire Watts is approximate
[OTHER] CCT Output Multipliers: 40K x 1.03, 30K x 0.98, 27K x 0.96
[OTHER] Catalog Number Update: 90W now called 100L
[OTHER] This report updated by Spectrum Lighting, Gen >11/03/2016

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7808
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	81.06
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.76
Spacing Criterion (90-270)	0.74
Spacing Criterion (Diagonal)	0.78
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.33 ft (Diameter)
Luminous Width (90-270)	1.33 ft (Diameter)
Luminous Height	0.00 ft

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALDDH16LEDLX-100L35KEX-AL16SG-MD.IES

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2156	2230	2828
55	776	806	1027
65	128	144	264
75	0	0	0
85	0	0	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALDDH16LEDLX-100L35KEX-AL16SG-MD.IES

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>
0.0	11193.946	11193.946	11193.946	11193.946	11193.946	11193.946	11193.946	11193.946	11193.946	11193.946
2.5	11188.498	11168.419	11168.318	11173.564	11186.177	11173.564	11168.318	11168.419	11188.498	11168.419
5.0	11122.307	11132.498	11106.466	11088.808	11102.531	11088.808	11106.466	11132.498	11122.307	11132.498
7.5	10915.361	10905.776	10887.311	10894.374	10885.192	10894.374	10887.311	10905.776	10915.361	10905.776
10.0	10515.495	10554.543	10524.374	10519.632	10499.048	10519.632	10524.374	10554.543	10515.495	10554.543
12.5	9993.842	9988.595	9954.188	9937.842	9903.234	9937.842	9954.188	9988.595	9993.842	9988.595
15.0	9181.193	9171.305	9148.905	9117.929	9057.086	9117.929	9148.905	9171.305	9181.193	9171.305
17.5	8129.311	8132.237	8114.176	8062.111	7967.972	8062.111	8114.176	8132.237	8129.311	8132.237
20.0	6935.260	6947.066	6942.929	6900.046	6819.124	6900.046	6942.929	6947.066	6935.260	6947.066
22.5	5885.093	5874.499	5878.232	5855.328	5798.824	5855.328	5878.232	5874.499	5885.093	5874.499
25.0	5019.270	5024.214	5037.735	5028.351	4998.283	5028.351	5037.735	5024.214	5019.270	5024.214
27.5	4368.364	4375.629	4390.562	4400.652	4390.966	4400.652	4390.562	4375.629	4368.364	4375.629
30.0	3888.383	3883.943	3897.969	3900.087	3907.050	3900.087	3897.969	3883.943	3888.383	3883.943
32.5	3321.123	3307.905	3331.718	3355.429	3361.181	3355.429	3331.718	3307.905	3321.123	3307.905
35.0	2581.325	2565.281	2577.591	2624.106	2655.082	2624.106	2577.591	2565.281	2581.325	2565.281
37.5	1778.463	1779.371	1824.272	1853.836	1903.075	1853.836	1824.272	1779.371	1778.463	1779.371
40.0	1074.585	1072.062	1107.882	1140.069	1170.743	1140.069	1107.882	1072.062	1074.585	1072.062
42.5	462.324	451.124	477.761	525.084	575.231	525.084	477.761	451.124	462.324	451.124
45.0	196.957	196.351	203.717	236.610	258.304	236.610	203.717	196.351	196.957	196.351
47.5	146.103	144.085	149.534	162.651	179.097	162.651	149.534	144.085	146.103	144.085
50.0	105.844	104.936	110.284	120.676	134.399	120.676	110.284	104.936	105.844	104.936
52.5	78.702	77.996	82.032	90.709	101.909	90.709	82.032	77.996	78.702	77.996
55.0	57.513	56.807	59.733	66.998	76.079	66.998	59.733	56.807	57.513	56.807
57.5	40.764	39.956	42.378	48.331	55.798	48.331	42.378	39.956	40.764	39.956
60.0	26.738	26.335	28.050	32.994	39.149	32.994	28.050	26.335	26.738	26.335
62.5	15.942	15.438	17.052	20.785	25.528	20.785	17.052	15.438	15.942	15.438
65.0	6.962	6.458	7.870	10.796	14.429	10.796	7.870	6.458	6.962	6.458
67.5	0.000	0.000	0.404	2.522	5.449	2.522	0.404	0.000	0.000	0.000
70.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALDDH16LEDLX-100L35KEX-AL16SG-MD.IES

CANDELA TABULATION - (Cont.)

135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	11193.946	11193.946	11193.946	11193.946	11193.946	11193.946	11193.946
2.5	11168.318	11173.564	11186.177	11173.564	11168.318	11168.419	11188.498
5.0	11106.466	11088.808	11102.531	11088.808	11106.466	11132.498	11122.307
7.5	10887.311	10894.374	10885.192	10894.374	10887.311	10905.776	10915.361
10.0	10524.374	10519.632	10499.048	10519.632	10524.374	10554.543	10515.495
12.5	9954.188	9937.842	9903.234	9937.842	9954.188	9988.595	9993.842
15.0	9148.905	9117.929	9057.086	9117.929	9148.905	9171.305	9181.193
17.5	8114.176	8062.111	7967.972	8062.111	8114.176	8132.237	8129.311
20.0	6942.929	6900.046	6819.124	6900.046	6942.929	6947.066	6935.260
22.5	5878.232	5855.328	5798.824	5855.328	5878.232	5874.499	5885.093
25.0	5037.735	5028.351	4998.283	5028.351	5037.735	5024.214	5019.270
27.5	4390.562	4400.652	4390.966	4400.652	4390.562	4375.629	4368.364
30.0	3897.969	3900.087	3907.050	3900.087	3897.969	3883.943	3888.383
32.5	3331.718	3355.429	3361.181	3355.429	3331.718	3307.905	3321.123
35.0	2577.591	2624.106	2655.082	2624.106	2577.591	2565.281	2581.325
37.5	1824.272	1853.836	1903.075	1853.836	1824.272	1779.371	1778.463
40.0	1107.882	1140.069	1170.743	1140.069	1107.882	1072.062	1074.585
42.5	477.761	525.084	575.231	525.084	477.761	451.124	462.324
45.0	203.717	236.610	258.304	236.610	203.717	196.351	196.957
47.5	149.534	162.651	179.097	162.651	149.534	144.085	146.103
50.0	110.284	120.676	134.399	120.676	110.284	104.936	105.844
52.5	82.032	90.709	101.909	90.709	82.032	77.996	78.702
55.0	59.733	66.998	76.079	66.998	59.733	56.807	57.513
57.5	42.378	48.331	55.798	48.331	42.378	39.956	40.764
60.0	28.050	32.994	39.149	32.994	28.050	26.335	26.738
62.5	17.052	20.785	25.528	20.785	17.052	15.438	15.942
65.0	7.870	10.796	14.429	10.796	7.870	6.458	6.962
67.5	0.404	2.522	5.449	2.522	0.404	0.000	0.000
70.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
72.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
77.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALDDH16LEDLX-100L35KEX-AL16SG-MD.IES

CANDELA TABULATION - (Cont.)

82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALDDH16LEDLX-100L35KEX-AL16SG-MD.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3533.59	N.A.	45.30
0-30	5885.99	N.A.	75.40
0-40	7461.75	N.A.	95.60
0-60	7796.97	N.A.	99.90
0-80	7807.66	N.A.	100.00
0-90	7807.67	N.A.	100.00
10-90	6765.92	N.A.	86.70
20-40	3928.16	N.A.	50.30
20-50	4204.73	N.A.	53.90
40-70	345.92	N.A.	4.40
60-80	10.69	N.A.	0.10
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	7807.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1041.75
10-20	2491.85
20-30	2352.4
30-40	1575.76
40-50	276.58
50-60	58.64
60-70	10.69
70-80	0.00
80-90	0.00
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

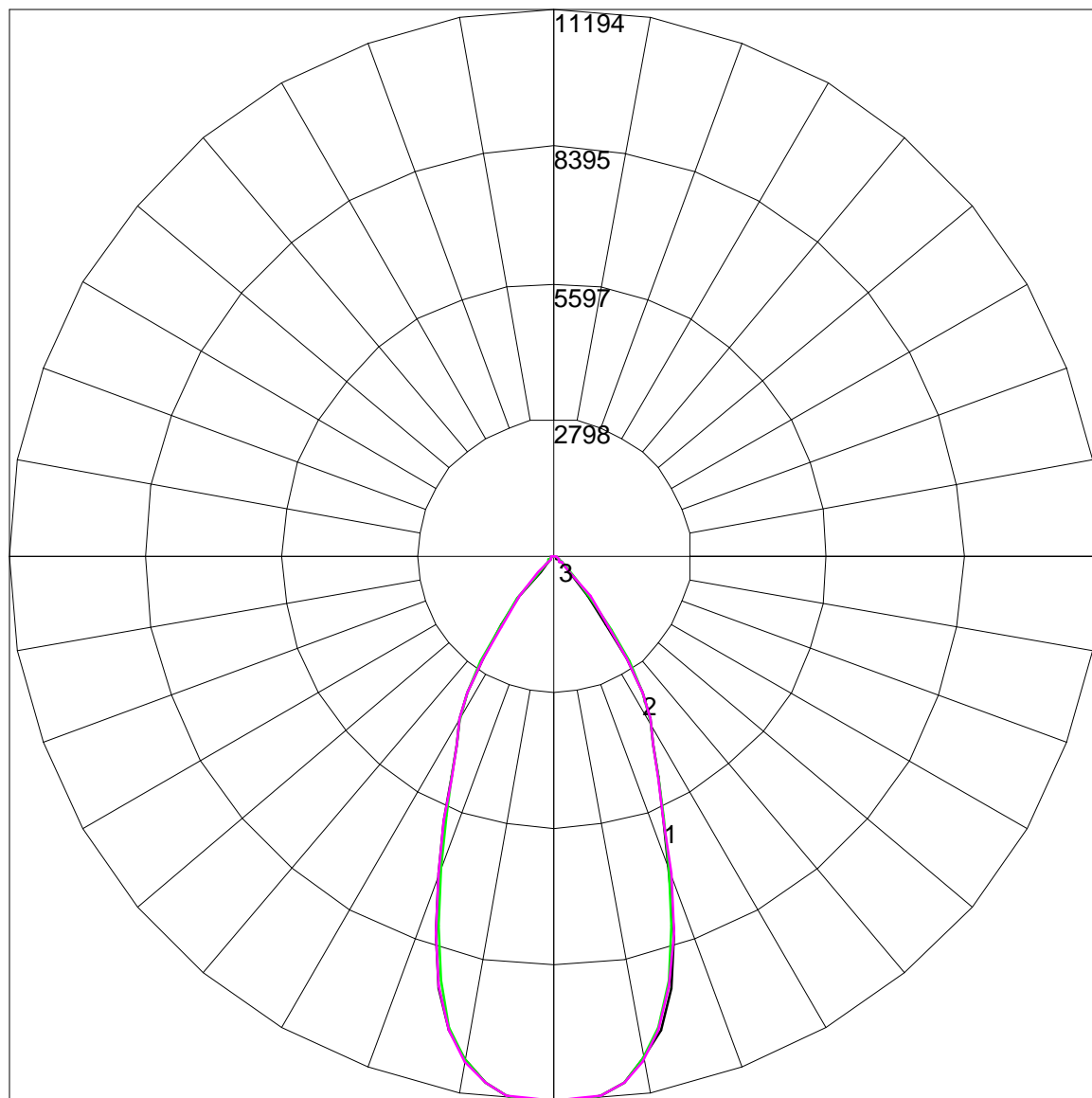
IES INDOOR REPORT
PHOTOMETRIC FILENAME : ALDDH16LEDLX-100L35KEX-AL16SG-MD.IES

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88
3	103	97	93	89	102	96	92	88	93	90	87	91	88	85	89	86	84	83
4	99	91	86	82	97	90	86	82	88	84	81	86	83	80	84	81	79	78
5	94	86	81	77	92	85	80	76	83	79	76	82	78	75	80	77	74	73
6	90	81	76	72	88	80	75	71	79	74	71	78	73	70	76	73	70	68
7	85	77	71	67	84	76	71	67	75	70	67	74	69	66	73	69	66	65
8	82	73	67	63	80	72	67	63	71	66	63	70	66	62	69	65	62	61
9	78	69	63	60	77	68	63	59	68	63	59	67	62	59	66	62	59	58
10	75	65	60	56	74	65	60	56	64	59	56	64	59	56	63	59	56	55

POLAR GRAPH



Maximum Candela = 11193.946 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)