

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGE6--SQLEDOS-45L35KE1--OSMWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST]20141023_M-45L-Gen3
[TESTLAB]OSRAM SYLVANIA
[ISSUE DATE]
[TEST DATE]8/14/2014
[UPDATE]1/4/2017
[MANUFAC]Spectrum Lighting
[LUMCAT]SGE6SQLEDOS-45L-35K-E1-CA0366OS-MW-SO
[LUMINAIRE]6" Square, LED recessed downlight
[TRIM]Cast Alum, Matte White finish, regressed Solite lens
[OTHER]69.4 Degree Beam Angle
[LAMP]N/A
[LAMPCAT]N/A
[OTHER]Total Luminaire Watts is approximate
[OTHER]Photometric measurements taken at 120VAC
[OTHER]Data applicable for Housing: SGE6PZSQLEDOS
[OTHER]Data applicable for Trims: SD6NOS-MS-SO and TP0366OS-MW-SO
[OTHER]Output Multipliers: 40K x 1.0, 30K x 1.0, 27K x 0.946
[OTHER]This report updated by Spectrum Lighting, scaled from Gen2 30L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4022
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	41.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.12
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.16
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.48 ft
Luminous Width (90-270)	0.48 ft
Luminous Height	0.00 ft

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SGE6--SQLEDOS-45L35KE1--OSMWSO.IES

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	32064	49735	31089
55	25071	27037	24978
65	24534	24406	24450
75	23540	23143	23578
85	20389	20625	20798

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SGE6--SQLEDOS-45L35KE1--OSMWSO.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	2559.035	2559.035	2559.035	2559.035	2559.035	2559.035	2559.035	2559.035	2559.035	2559.035
2.5	2554.301	2552.435	2550.053	2549.833	2553.449	2549.833	2550.053	2552.435	2554.301	2552.435
5.0	2541.321	2538.131	2539.866	2536.808	2537.558	2536.808	2539.866	2538.131	2541.321	2538.131
7.5	2526.269	2525.534	2515.552	2520.594	2524.916	2520.594	2515.552	2525.534	2526.269	2525.534
10.0	2507.408	2498.824	2498.059	2498.265	2501.969	2498.265	2498.059	2498.824	2507.408	2498.824
12.5	2476.142	2470.894	2473.172	2469.762	2471.849	2469.762	2473.172	2470.894	2476.142	2470.894
15.0	2438.774	2438.436	2448.844	2437.319	2435.908	2437.319	2448.844	2438.436	2438.774	2438.436
17.5	2392.895	2394.718	2417.915	2399.452	2397.158	2399.452	2417.915	2394.718	2392.895	2394.718
20.0	2352.074	2358.512	2375.564	2361.952	2356.704	2361.952	2375.564	2358.512	2352.074	2358.512
22.5	2300.565	2308.312	2326.437	2322.527	2310.443	2322.527	2326.437	2308.312	2300.565	2308.312
25.0	2204.515	2241.750	2261.463	2260.801	2220.391	2260.801	2261.463	2241.750	2204.515	2241.750
27.5	2045.299	2124.562	2189.477	2149.728	2055.560	2149.728	2189.477	2124.562	2045.299	2124.562
30.0	1811.408	1945.648	2088.870	1971.623	1814.392	1971.623	2088.870	1945.648	1811.408	1945.648
32.5	1525.272	1702.804	1954.733	1730.499	1533.622	1730.499	1954.733	1702.804	1525.272	1702.804
35.0	1236.961	1426.709	1770.674	1451.375	1227.759	1451.375	1770.674	1426.709	1236.961	1426.709
37.5	968.171	1150.790	1523.376	1159.683	950.311	1159.683	1523.376	1150.790	968.171	1150.790
40.0	745.378	901.051	1244.796	903.683	730.325	903.683	1244.796	901.051	745.378	901.051
42.5	591.557	702.146	978.932	699.529	574.917	699.529	978.932	702.146	591.557	702.146
45.0	485.762	561.702	753.463	553.573	470.988	553.573	753.463	561.702	485.762	561.702
47.5	412.423	464.549	581.385	455.832	403.118	455.832	581.385	464.549	412.423	464.549
50.0	365.133	396.194	463.741	390.167	359.371	390.167	463.741	396.194	365.133	396.194
52.5	333.734	350.610	385.287	347.449	330.559	347.449	385.287	350.610	333.734	350.610
55.0	308.097	319.211	332.249	317.491	306.951	317.491	332.249	319.211	308.097	319.211
57.5	285.827	293.441	295.029	292.412	284.768	292.412	295.029	293.441	285.827	293.441
60.0	264.674	270.157	267.084	269.686	263.453	269.686	267.084	270.157	264.674	270.157
62.5	243.256	247.680	243.241	247.489	242.418	247.489	243.241	247.680	243.256	247.680
65.0	222.146	225.351	220.985	225.204	221.382	225.204	220.985	225.351	222.146	225.351
67.5	201.214	202.934	198.391	202.669	200.390	202.669	198.391	202.934	201.214	202.934
70.0	179.708	180.384	175.753	180.428	179.222	180.428	175.753	180.384	179.708	180.384
72.5	156.923	156.893	152.439	157.128	156.923	157.128	152.439	156.893	156.923	156.893
75.0	130.536	131.918	128.331	132.800	130.742	132.800	128.331	131.918	130.536	131.918
77.5	105.017	106.208	104.649	107.501	105.561	107.501	104.649	106.208	105.017	106.208
80.0	81.056	82.202	81.262	83.922	81.453	83.922	81.262	82.202	81.056	82.202
82.5	58.741	59.697	59.329	61.314	59.270	61.314	59.329	59.697	58.741	59.697
85.0	38.073	38.617	38.514	40.322	38.837	40.322	38.514	38.617	38.073	38.617
87.5	19.331	19.404	19.536	21.036	20.080	21.036	19.536	19.404	19.331	19.404
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 : SGE6--SQLEDOS-45L35KE1--OSMWSO.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	2559.035	2559.035	2559.035	2559.035	2559.035	2559.035	2559.035
2.5	2550.053	2549.833	2553.449	2549.833	2550.053	2552.435	2554.301
5.0	2539.866	2536.808	2537.558	2536.808	2539.866	2538.131	2541.321
7.5	2515.552	2520.594	2524.916	2520.594	2515.552	2525.534	2526.269
10.0	2498.059	2498.265	2501.969	2498.265	2498.059	2498.824	2507.408
12.5	2473.172	2469.762	2471.849	2469.762	2473.172	2470.894	2476.142
15.0	2448.844	2437.319	2435.908	2437.319	2448.844	2438.436	2438.774
17.5	2417.915	2399.452	2397.158	2399.452	2417.915	2394.718	2392.895
20.0	2375.564	2361.952	2356.704	2361.952	2375.564	2358.512	2352.074
22.5	2326.437	2322.527	2310.443	2322.527	2326.437	2308.312	2300.565
25.0	2261.463	2260.801	2220.391	2260.801	2261.463	2241.750	2204.515
27.5	2189.477	2149.728	2055.560	2149.728	2189.477	2124.562	2045.299
30.0	2088.870	1971.623	1814.392	1971.623	2088.870	1945.648	1811.408
32.5	1954.733	1730.499	1533.622	1730.499	1954.733	1702.804	1525.272
35.0	1770.674	1451.375	1227.759	1451.375	1770.674	1426.709	1236.961
37.5	1523.376	1159.683	950.311	1159.683	1523.376	1150.790	968.171
40.0	1244.796	903.683	730.325	903.683	1244.796	901.051	745.378
42.5	978.932	699.529	574.917	699.529	978.932	702.146	591.557
45.0	753.463	553.573	470.988	553.573	753.463	561.702	485.762
47.5	581.385	455.832	403.118	455.832	581.385	464.549	412.423
50.0	463.741	390.167	359.371	390.167	463.741	396.194	365.133
52.5	385.287	347.449	330.559	347.449	385.287	350.610	333.734
55.0	332.249	317.491	306.951	317.491	332.249	319.211	308.097
57.5	295.029	292.412	284.768	292.412	295.029	293.441	285.827
60.0	267.084	269.686	263.453	269.686	267.084	270.157	264.674
62.5	243.241	247.489	242.418	247.489	243.241	247.680	243.256
65.0	220.985	225.204	221.382	225.204	220.985	225.351	222.146
67.5	198.391	202.669	200.390	202.669	198.391	202.934	201.214
70.0	175.753	180.428	179.222	180.428	175.753	180.384	179.708
72.5	152.439	157.128	156.923	157.128	152.439	156.893	156.923
75.0	128.331	132.800	130.742	132.800	128.331	131.918	130.536
77.5	104.649	107.501	105.561	107.501	104.649	106.208	105.017
80.0	81.262	83.922	81.453	83.922	81.262	82.202	81.056

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SGE6--SQLEDOS-45L35KE1--OSMWSO.IES

CANDELA TABULATION - (Cont.)

82.5	59.329	61.314	59.270	61.314	59.329	59.697	58.741
85.0	38.514	40.322	38.837	40.322	38.514	38.617	38.073
87.5	19.536	21.036	20.080	21.036	19.536	19.404	19.331
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 : SGE6--SQLEDOS-45L35KE1--OSMWSO.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	929.76	N.A.	23.10
0-30	1948.18	N.A.	48.40
0-40	2854.12	N.A.	71.00
0-60	3619.04	N.A.	90.00
0-80	3978.15	N.A.	98.90
0-90	4021.64	N.A.	100.00
10-90	3780.51	N.A.	94.00
20-40	1924.36	N.A.	47.90
20-50	2398.84	N.A.	59.60
40-70	986.02	N.A.	24.50
60-80	359.11	N.A.	8.90
70-80	138.01	N.A.	3.40
80-90	43.49	N.A.	1.10
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	4021.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	241.13
10-20	688.63
20-30	1018.41
30-40	905.94
40-50	474.48
50-60	290.44
60-70	221.10
70-80	138.01
80-90	43.49
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

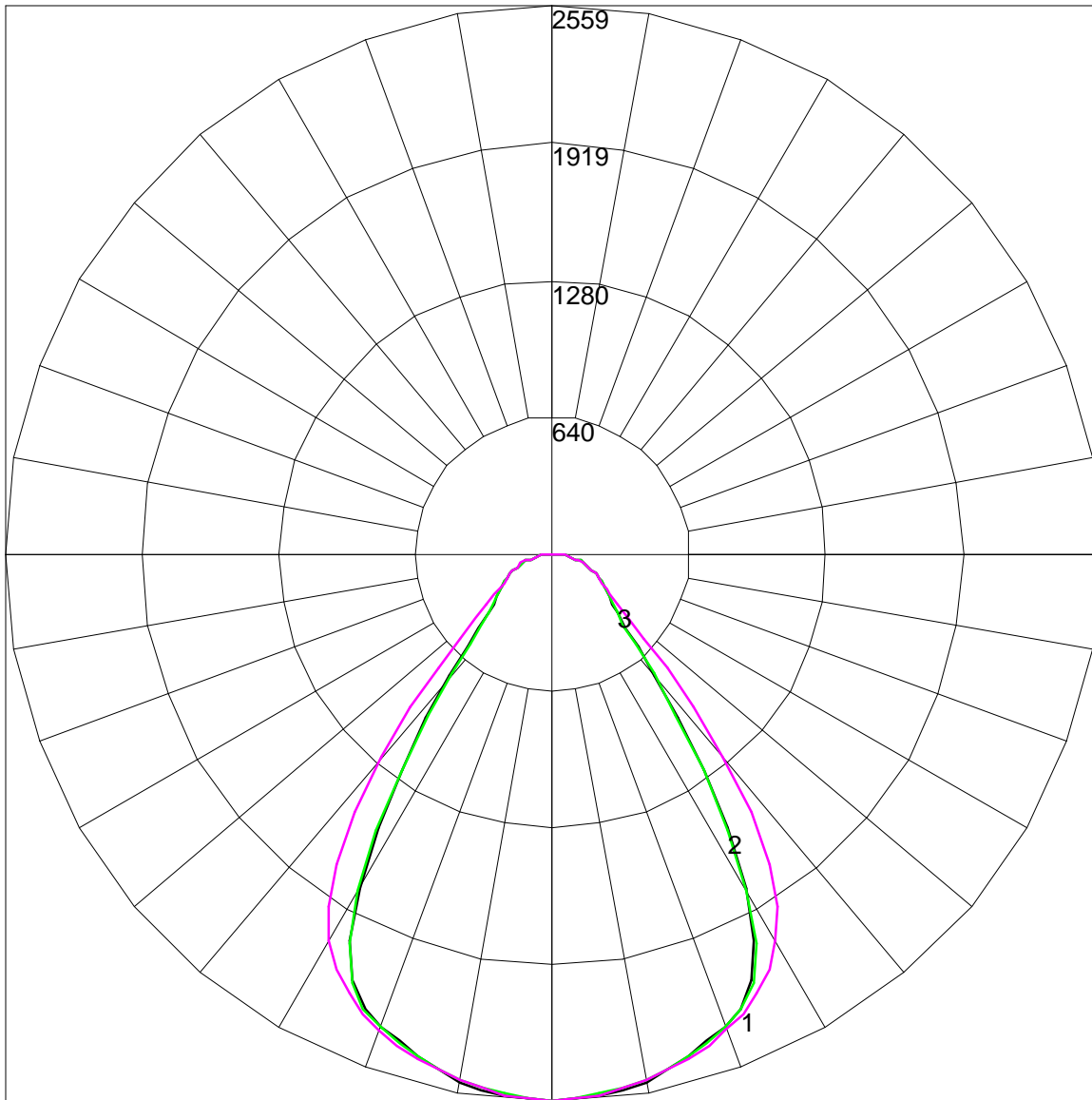
IES INDOOR REPORT
 PHOTOMETRIC FILENAME : SGE6--SQLEDOS-45L35KE1--OSMWSO.IES

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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	68	88	79	72	67	77	71	66	74	70	66	72	68	65	63
5	84	74	66	61	82	73	66	60	71	64	60	69	63	59	67	62	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	63	55	50	73	62	55	50	60	54	50	59	53	49	58	53	49	47
8	70	58	51	46	68	57	51	46	56	50	45	55	49	45	54	49	45	43
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37

POLAR GRAPH



Maximum Candela = 2559.035 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)