

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SGE4--SQLEDOS-30L35KE1--OSMWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST]20141022_M-30L-Gen3
[TESTLAB]OSRAM SYLVANIA
[TESTDATE]8/13/2014
[ISSUE DATE]8/13/2014
[UPDATE]11/11/2016
[MANUFAC]Spectrum Lighting
[LUMCAT]SGE4SQLEDOS-30L-35K-E1-CA0244OS-MW-SO
[LUMINAIRE]4" Square, LED recessed downlight
[TRIM]Cast Alum, Matte White finish, regressed Solite lens
[OTHER]59.6 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: SGE4PZSQLEDOS
[OTHER]Data applicable for Trims: SD4NOS-MS-SO and TP0244OS-MW-SO
[OTHER]Output Multipliers: 40K x 1.0, 30K x 1.0, 27K x 0.946
[OTHER]Catalog number designation update: 35W is now called 30L
[OTHER]This report updated by Spectrum Lighting, scaled from Gen2

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2344
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	27.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.96
Spacing Criterion (90-270)	0.94
Spacing Criterion (Diagonal)	0.98
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.31 ft
Luminous Width (90-270)	0.31 ft
Luminous Height	0.00 ft

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SGE4--SQLEDOS-30L35KE1--OSMWSO.IES

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	53331	56291	52906
55	45285	42502	45211
65	36466	35383	36221
75	29905	29708	29837
85	24689	25380	24856

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SGE4--SQLEDOS-30L35KE1--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	1762.358	1762.358	1762.358	1762.358	1762.358	1762.358	1762.358	1762.358	1762.358	1762.358
2.5	1762.278	1763.412	1762.537	1761.015	1757.016	1761.015	1762.537	1763.412	1762.278	1763.412
5.0	1750.719	1749.933	1750.351	1751.694	1747.555	1751.694	1750.351	1749.933	1750.719	1749.933
7.5	1741.447	1739.149	1737.428	1737.796	1737.756	1737.796	1737.428	1739.149	1741.447	1739.149
10.0	1726.416	1722.566	1718.885	1721.989	1724.376	1721.989	1718.885	1722.566	1726.416	1722.566
12.5	1704.500	1704.630	1702.620	1702.381	1704.898	1702.381	1702.620	1704.630	1704.500	1704.630
15.0	1670.040	1676.298	1684.336	1675.064	1667.175	1675.064	1684.336	1676.298	1670.040	1676.298
17.5	1602.991	1627.771	1657.197	1617.913	1598.594	1617.913	1657.197	1627.771	1602.991	1627.771
20.0	1502.427	1552.962	1612.640	1531.544	1495.503	1531.544	1612.640	1552.962	1502.427	1552.962
22.5	1363.602	1443.425	1531.335	1417.461	1355.534	1417.461	1531.335	1443.425	1363.602	1443.425
25.0	1201.330	1304.342	1412.258	1273.304	1193.770	1273.304	1412.258	1304.342	1201.330	1304.342
27.5	1027.638	1142.408	1259.705	1107.252	1018.725	1107.252	1259.705	1142.408	1027.638	1142.408
30.0	852.882	973.919	1083.347	940.345	846.177	940.345	1083.347	973.919	852.882	973.919
32.5	697.216	808.683	912.122	779.834	694.748	779.834	912.122	808.683	697.216	808.683
35.0	575.532	662.547	750.358	640.114	572.378	640.114	750.358	662.547	575.532	662.547
37.5	483.403	547.966	611.941	530.606	479.882	530.606	611.941	547.966	483.403	547.966
40.0	415.349	460.105	501.310	447.501	411.907	447.501	501.310	460.105	415.349	460.105
42.5	369.906	394.607	417.199	386.510	366.166	386.510	417.199	394.607	369.906	394.607
45.0	336.998	346.310	355.701	343.494	334.312	343.494	355.701	346.310	336.998	346.310
47.5	310.099	310.616	310.268	311.502	308.706	311.502	310.268	310.616	310.099	310.616
50.0	285.179	280.703	273.849	283.647	284.563	283.647	273.849	280.703	285.179	280.703
52.5	259.245	252.699	243.487	256.181	258.608	256.181	243.487	252.699	259.245	252.699
55.0	232.117	226.546	217.851	229.461	231.739	229.461	217.851	226.546	232.117	226.546
57.5	205.177	201.487	194.573	202.820	204.670	202.820	194.573	201.487	205.177	201.487
60.0	180.198	177.990	172.687	177.811	179.094	177.811	172.687	177.990	180.198	177.990
62.5	157.497	156.293	152.443	155.059	156.164	155.059	152.443	156.293	157.497	156.293
65.0	137.720	136.158	133.631	134.825	136.795	134.825	133.631	136.158	137.720	136.158
67.5	118.550	117.546	115.874	117.426	118.013	117.426	115.874	117.546	118.550	117.546
70.0	101.241	100.067	99.231	100.276	100.694	100.276	99.231	100.067	101.241	100.067
72.5	84.837	83.981	83.513	84.110	84.289	84.110	83.513	83.981	84.837	83.981
75.0	69.168	68.731	68.711	68.880	69.009	68.880	68.711	68.731	69.168	68.731
77.5	54.923	54.794	55.032	55.002	54.883	55.002	55.032	54.794	54.923	54.794
80.0	42.120	41.911	42.080	42.229	41.951	42.229	42.080	41.911	42.120	41.911
82.5	30.172	30.172	30.411	30.441	30.053	30.441	30.411	30.172	30.172	30.172
85.0	19.229	19.289	19.767	19.757	19.359	19.757	19.767	19.289	19.229	19.289
87.5	9.431	9.441	10.018	10.038	9.839	10.038	10.018	9.441	9.431	9.441
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 : SGE4--SQLEDOS-30L35KE1--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	1762.358	1762.358	1762.358	1762.358	1762.358	1762.358	1762.358
2.5	1762.537	1761.015	1757.016	1761.015	1762.537	1763.412	1762.278
5.0	1750.351	1751.694	1747.555	1751.694	1750.351	1749.933	1750.719
7.5	1737.428	1737.796	1737.756	1737.796	1737.428	1739.149	1741.447
10.0	1718.885	1721.989	1724.376	1721.989	1718.885	1722.566	1726.416
12.5	1702.620	1702.381	1704.898	1702.381	1702.620	1704.630	1704.500
15.0	1684.336	1675.064	1667.175	1675.064	1684.336	1676.298	1670.040
17.5	1657.197	1617.913	1598.594	1617.913	1657.197	1627.771	1602.991
20.0	1612.640	1531.544	1495.503	1531.544	1612.640	1552.962	1502.427
22.5	1531.335	1417.461	1355.534	1417.461	1531.335	1443.425	1363.602
25.0	1412.258	1273.304	1193.770	1273.304	1412.258	1304.342	1201.330
27.5	1259.705	1107.252	1018.725	1107.252	1259.705	1142.408	1027.638
30.0	1083.347	940.345	846.177	940.345	1083.347	973.919	852.882
32.5	912.122	779.834	694.748	779.834	912.122	808.683	697.216
35.0	750.358	640.114	572.378	640.114	750.358	662.547	575.532
37.5	611.941	530.606	479.882	530.606	611.941	547.966	483.403
40.0	501.310	447.501	411.907	447.501	501.310	460.105	415.349
42.5	417.199	386.510	366.166	386.510	417.199	394.607	369.906
45.0	355.701	343.494	334.312	343.494	355.701	346.310	336.998
47.5	310.268	311.502	308.706	311.502	310.268	310.616	310.099
50.0	273.849	283.647	284.563	283.647	273.849	280.703	285.179
52.5	243.487	256.181	258.608	256.181	243.487	252.699	259.245
55.0	217.851	229.461	231.739	229.461	217.851	226.546	232.117
57.5	194.573	202.820	204.670	202.820	194.573	201.487	205.177
60.0	172.687	177.811	179.094	177.811	172.687	177.990	180.198
62.5	152.443	155.059	156.164	155.059	152.443	156.293	157.497
65.0	133.631	134.825	136.795	134.825	133.631	136.158	137.720
67.5	115.874	117.426	118.013	117.426	115.874	117.546	118.550
70.0	99.231	100.276	100.694	100.276	99.231	100.067	101.241
72.5	83.513	84.110	84.289	84.110	83.513	83.981	84.837
75.0	68.711	68.880	69.009	68.880	68.711	68.731	69.168
77.5	55.032	55.002	54.883	55.002	55.032	54.794	54.923
80.0	42.080	42.229	41.951	42.229	42.080	41.911	42.120

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SGE4--SQLEDOS-30L35KE1--OSMWSO.IES

CANDELA TABULATION - (Cont.)

82.5	30.411	30.441	30.053	30.441	30.411	30.172	30.172
85.0	19.767	19.757	19.359	19.757	19.767	19.289	19.229
87.5	10.018	10.038	9.839	10.038	10.018	9.441	9.431
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 : SGE4--SQLEDOS-30L35KE1--OSMWSO.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	634.49	N.A.	27.10
0-30	1219.27	N.A.	52.00
0-40	1638.27	N.A.	69.90
0-60	2113.55	N.A.	90.20
0-80	2322.23	N.A.	99.10
0-90	2344.17	N.A.	100.00
10-90	2177.93	N.A.	92.90
20-40	1003.79	N.A.	42.80
20-50	1276.05	N.A.	54.40
40-70	610.41	N.A.	26.00
60-80	208.68	N.A.	8.90
70-80	73.54	N.A.	3.10
80-90	21.94	N.A.	0.90
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	2344.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	166.24
10-20	468.25
20-30	584.79
30-40	419.00
40-50	272.26
50-60	203.02
60-70	135.13
70-80	73.54
80-90	21.94
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

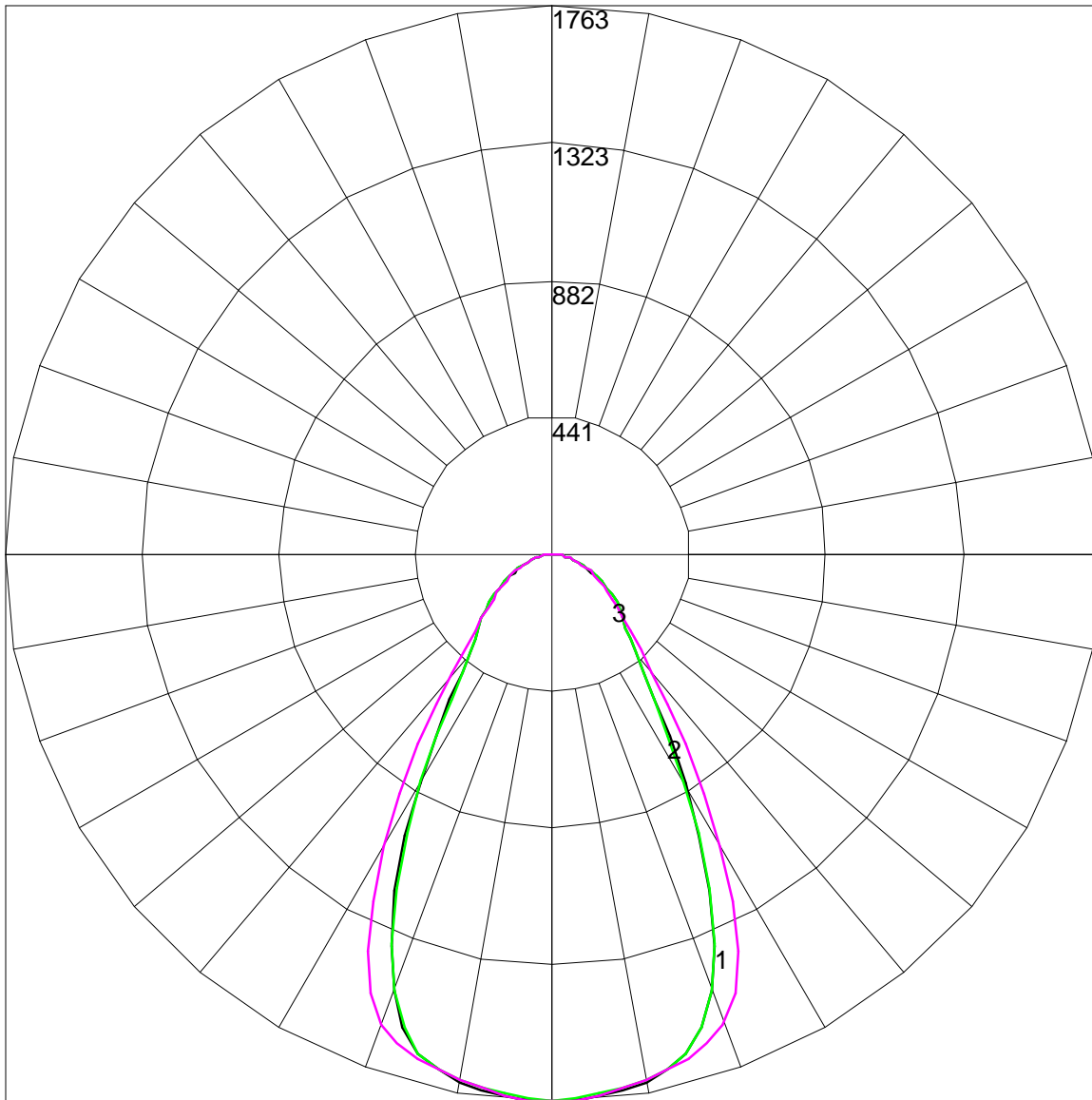
IES INDOOR REPORT
PHOTOMETRIC FILENAME : SGE4--SQLEDOS-30L35KE1--OSMWSO.IES

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	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89
2	104	97	92	87	101	95	91	86	92	88	85	89	86	83	86	83	81	79
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	72	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	64	56	51	73	63	56	51	62	55	51	60	55	50	59	54	50	48
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42
10	63	52	45	41	62	51	45	41	51	45	40	50	44	40	49	44	40	39

POLAR GRAPH



Maximum Candela = 1763.412 Located At Horizontal Angle = 22.5, Vertical Angle = 2.5

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