

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_15 ~ SGE6BX70L-35KXW-DO101-AR6BXSGWF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00625_15_M-70L

[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 6/7/2018

[UPDATE] 7/20/2018

[LUMCAT] SGE6BX-70L-35K-XW-DO101-AR6BX-SGWF

[LUMINAIRE] Nom. 6" Diam x 9" H, Open aperture

[OTHER] Semi diffuse aluminum reflector trim

[OTHER] Deep regressed retrofit high output LED downlight

[OTHER] BX Series, Xtra Wide Beam

[OTHER] 44.6 Deg Beam Angle

[LAMPCAT] N/A

[LAMP] N/A, Bridgelux Vero 29

[OTHER] Dimmable driver tested at 100% output

[OTHER] Tested CCT: 3500K

[OTHER] CCT Output: 27K x 0.932, 30K x 1.00, 40K x 1.01

[OTHER] This report prepared by Spectrum Lighting, scaled from 80L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5291
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	51
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.66
Spacing Criterion (90-270)	0.64
Spacing Criterion (Diagonal)	0.74
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.48 ft (Diameter)
Luminous Width (90-270)	0.48 ft (Diameter)
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_15 ~ SGE6BX70L-35KXW-DO101-AR6BXSGWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	23569	25866	29383
55	369	398	597
65	218	99	197
75	108	168	200
85	438	344	644

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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>
0.0	9434.284	9434.284	9434.284	9434.284	9434.284	9434.284	9434.284	9434.284	9434.284	9434.284
2.5	9040.568	9063.179	8926.200	9046.564	9003.865	8440.745	8645.763	8560.419	8829.035	8851.559
5.0	8563.393	8398.125	8294.123	8323.170	8396.249	7579.135	7676.302	7734.841	8012.668	8206.201
7.5	7657.438	7603.911	7369.272	7498.228	7442.061	6847.808	6949.675	6995.103	7263.950	7363.468
10.0	6814.441	6768.443	6557.590	6647.857	6579.523	6184.302	6309.701	6293.393	6531.080	6599.195
12.5	6318.363	6237.155	6096.139	6149.338	6150.516	5826.690	5883.007	5904.805	6062.852	6137.555
15.0	5844.926	5808.884	5672.987	5745.009	5741.913	5480.347	5538.186	5525.030	5661.082	5701.006
17.5	5511.486	5477.884	5378.179	5426.604	5437.620	5188.796	5232.547	5230.285	5334.896	5370.388
20.0	5173.175	5182.384	5073.164	5133.226	5128.333	4867.850	4942.783	4920.205	5029.425	5020.194
22.5	4801.788	4799.431	4731.737	4765.826	4790.569	4388.089	4461.436	4440.691	4566.546	4581.167
25.0	4375.170	4382.757	4285.709	4375.501	4385.470	3848.754	3896.927	3931.038	4057.700	4060.449
27.5	3518.933	3620.790	3432.841	3607.236	3560.859	2958.918	3115.378	3012.220	3221.791	3129.859
30.0	2676.948	2718.338	2611.342	2714.747	2751.174	2119.972	2234.672	2117.210	2284.336	2249.873
32.5	1959.084	2025.705	1920.494	2037.818	2047.010	1618.949	1657.841	1611.004	1673.462	1645.171
35.0	1277.529	1424.541	1301.437	1437.326	1387.803	1144.834	1226.985	1115.923	1172.211	1088.303
37.5	969.426	1035.637	1003.515	1064.521	1081.466	868.069	903.953	847.482	851.395	814.922
40.0	669.906	744.116	719.869	777.078	783.850	600.784	636.194	582.014	594.708	554.823
42.5	472.260	519.000	506.766	552.228	562.932	413.803	429.970	405.301	407.470	383.626
45.0	280.441	326.425	307.771	352.581	349.613	234.943	256.850	230.310	246.789	221.543
47.5	170.019	191.854	184.289	211.791	215.337	133.737	141.002	133.796	139.953	126.890
50.0	63.773	87.134	73.167	95.984	88.114	39.427	57.961	37.844	54.847	40.121
52.5	33.034	35.278	36.103	40.945	45.675	20.542	19.166	20.495	20.043	20.781
55.0	3.566	12.414	3.840	13.509	5.759	2.910	6.931	3.146	6.994	3.173
57.5	3.443	3.362	3.117	3.582	3.747	2.077	1.982	2.306	2.594	2.298
60.0	3.300	2.252	2.375	2.019	1.827	1.312	1.613	1.529	2.131	1.479
62.5	2.419	1.625	1.477	1.553	1.620	1.655	1.293	1.467	1.643	1.300
65.0	1.552	1.289	0.704	1.638	1.402	1.939	1.007	1.418	1.145	1.117
67.5	1.188	1.168	0.912	1.520	0.958	1.177	0.981	1.375	0.917	0.890
70.0	0.824	1.175	1.050	1.299	0.614	0.536	1.121	1.330	0.816	0.715
72.5	0.465	1.036	0.915	1.315	0.878	0.607	1.026	1.265	0.863	0.802
75.0	0.469	0.854	0.732	1.337	0.870	0.707	0.849	1.121	0.937	0.845
77.5	1.009	0.708	0.497	0.952	0.494	0.842	0.711	0.843	0.934	0.834
80.0	0.658	0.578	0.515	0.645	0.752	0.502	0.914	0.798	0.743	0.772
82.5	0.510	0.592	0.444	0.544	1.007	0.417	1.152	0.879	0.663	0.638
85.0	0.642	0.859	0.504	0.764	0.945	0.643	1.062	0.669	0.689	0.808
87.5	0.664	0.807	0.848	0.845	0.599	0.722	0.696	0.625	0.396	0.677
90.0	0.411	0.136	0.450	0.178	1.356	0.815	0.203	0.573	0.129	0.487
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

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CANDELA TABULATION - (Cont.)

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
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	9434.284	9434.284	9434.284	9434.284	9434.284	9434.284	9434.284
2.5	9093.522	9024.610	9084.649	9286.246	9213.282	9180.579	9040.568
5.0	8404.171	8447.913	8395.558	8994.111	8899.434	8805.862	8563.393
7.5	7642.971	7580.969	7622.392	8214.504	7982.570	7997.215	7657.438
10.0	6853.769	6773.737	6826.780	7299.252	7143.041	7115.274	6814.441
12.5	6299.083	6270.772	6278.667	6664.744	6567.176	6537.912	6318.363
15.0	5840.803	5787.329	5802.454	6115.082	6029.772	6016.595	5844.926
17.5	5459.601	5414.797	5423.110	5689.011	5632.069	5634.024	5511.486
20.0	5112.338	5031.870	5073.693	5302.611	5241.030	5279.832	5173.175
22.5	4650.897	4584.420	4573.080	4909.609	4876.409	4887.738	4801.788
25.0	4136.554	4076.622	4021.957	4514.363	4423.428	4487.284	4375.170
27.5	3333.763	3143.925	3174.556	3749.755	3595.177	3697.418	3518.933
30.0	2388.247	2247.149	2222.344	2849.718	2772.100	2815.250	2676.948
32.5	1718.638	1631.049	1594.410	2082.799	1973.217	2078.521	1959.084
35.0	1192.386	1049.855	1089.917	1367.442	1253.863	1379.526	1277.529
37.5	837.211	774.140	766.580	953.439	936.144	993.002	969.426
40.0	575.307	508.815	516.027	664.680	638.036	693.032	669.906
42.5	384.394	350.958	343.097	461.008	450.278	484.090	472.260
45.0	234.681	198.643	203.043	294.587	273.805	302.539	280.441
47.5	130.721	112.544	111.808	176.253	166.665	182.196	170.019
50.0	54.582	30.966	42.701	80.431	68.964	81.417	63.773
52.5	18.311	16.786	14.590	33.909	34.955	36.690	33.034
55.0	7.800	3.306	6.020	11.645	4.698	11.309	3.566
57.5	2.914	2.591	2.615	3.405	3.399	3.645	3.443
60.0	1.833	1.880	1.838	2.413	2.180	2.453	3.300
62.5	1.380	1.265	1.619	1.727	1.642	1.827	2.419
65.0	1.371	0.671	1.700	1.210	1.158	1.420	1.552

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_15 ~ SGE6BX70L-35KXW-DO101-AR6BXSGWF.IES****CANDELA TABULATION - (Cont.)**

67.5	1.279	0.680	1.552	0.837	1.194	1.165	1.188
70.0	1.128	0.709	1.285	0.542	1.166	0.968	0.824
72.5	0.906	0.876	1.063	0.686	0.863	0.751	0.465
75.0	0.685	1.087	0.889	0.924	0.761	0.572	0.469
77.5	0.943	1.360	1.020	0.875	0.889	0.611	1.009
80.0	0.873	1.107	0.861	0.658	0.618	0.521	0.658
82.5	0.701	0.964	0.689	0.656	0.672	0.710	0.510
85.0	0.760	0.805	0.617	0.805	0.696	1.102	0.642
87.5	0.487	1.026	0.429	0.454	0.786	0.632	0.664
90.0	0.232	0.403	0.735	0.283	0.619	1.017	0.411
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 : SP-00625_15 ~ SGE6BX70L-35KXW-DO101-AR6BXSGWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2371.03	N.A.	44.80
0-30	4191.4	N.A.	79.20
0-40	5041.51	N.A.	95.30
0-60	5287.72	N.A.	99.90
0-80	5289.98	N.A.	100.00
0-90	5290.74	N.A.	100.00
10-90	4548.51	N.A.	86.00
20-40	2670.48	N.A.	50.50
20-50	2901.53	N.A.	54.80
40-70	247.57	N.A.	4.70
60-80	2.26	N.A.	0.00
70-80	0.91	N.A.	0.00
80-90	0.75	N.A.	0.00
90-110	0.07	N.A.	0.00
90-120	0.07	N.A.	0.00
90-130	0.07	N.A.	0.00
90-150	0.07	N.A.	0.00
90-180	0.07	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5290.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	742.22
10-20	1628.81
20-30	1820.37
30-40	850.12
40-50	231.05
50-60	15.16
60-70	1.36
70-80	0.91
80-90	0.75
90-100	0.07
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

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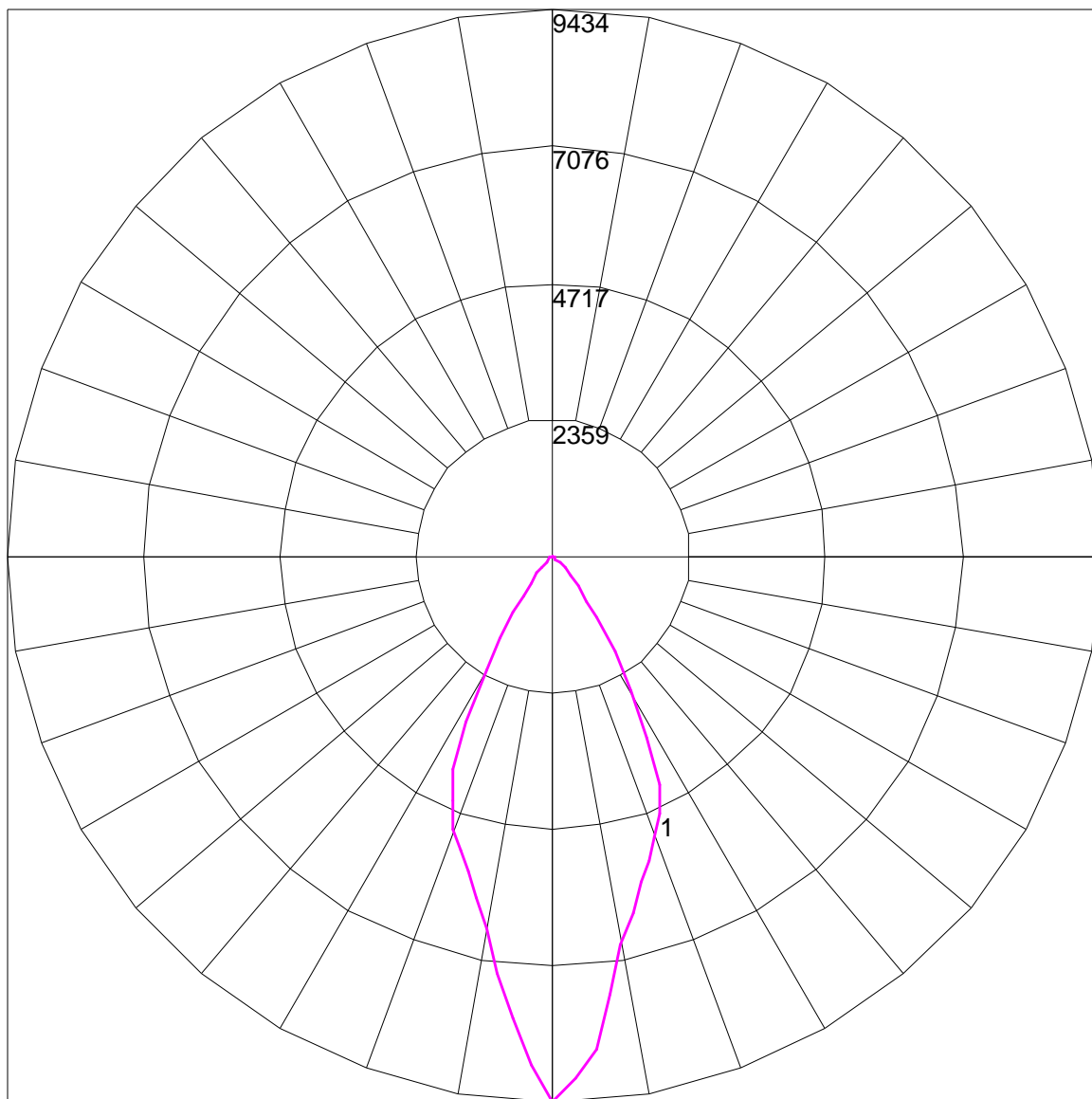
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	107	102	99	96	99	96	94	96	94	92	94	92	90	89
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83
4	99	92	87	83	97	91	86	82	89	85	81	87	83	80	85	82	80	78
5	94	87	81	77	93	86	81	77	84	80	76	82	78	75	81	77	75	73
6	90	82	76	72	89	81	76	72	80	75	71	78	74	71	77	73	71	69
7	86	77	72	68	85	77	71	68	75	71	67	74	70	67	73	69	67	65
8	82	73	68	64	81	73	67	64	72	67	64	71	66	63	70	66	63	62
9	79	70	64	60	78	69	64	60	68	63	60	67	63	60	67	63	60	58
10	75	66	61	57	74	66	61	57	65	60	57	64	60	57	64	60	57	55

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00625_15 ~ SGE6BX70L-35KXW-DO101-AR6BXSGWF.IES

POLAR GRAPH



Maximum Candela = 9434.284 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)