

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_12 ~ SGE6BX80L-35KWD-DO101-AR6BXMWWF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00625_12
[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 6/7/2018
[UPDATE] 7/12/2018
[LUMCAT] SGE6BX-80L-35K-WD-DO101-AR6BX-MWWF
[LUMINAIRE] Nom. 6" Diam x 9" H, Open aperture
[OTHER] Matte White reflector trim
[OTHER] Deep regressed retrofit high output LED downlight
[OTHER] BX Series, Wide Beam
[OTHER] 48.6 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6231
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	60
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.74
Spacing Criterion (90-270)	0.74
Spacing Criterion (Diagonal)	0.76
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_12 ~ SGE6BX80L-35KWD-DO101-AR6BXMWWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	25401	26135	26528
55	14620	15209	14845
65	14797	15181	14706
75	10619	9733	10225
85	2972	3279	4294

IES INDOOR REPORT

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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	9871.990	9871.990	9871.990	9871.990	9871.990	9871.990	9871.990	9871.990	9871.990	9871.990
2.5	9701.388	9622.706	9774.420	9606.888	9765.715	9601.276	9722.068	9548.971	9654.360	9577.378
5.0	9181.684	9201.507	9121.816	9169.165	9079.689	9125.368	9026.429	9085.112	9030.054	9145.877
7.5	8468.670	8494.877	8424.261	8445.246	8400.807	8371.221	8341.817	8381.538	8400.304	8439.470
10.0	7857.922	7769.528	7817.428	7704.542	7778.932	7726.204	7741.952	7691.032	7763.009	7774.060
12.5	7286.429	7280.513	7217.558	7230.312	7186.298	7207.438	7170.504	7220.877	7216.564	7269.297
15.0	6820.878	6796.644	6786.759	6760.027	6751.557	6742.958	6748.203	6755.548	6775.046	6782.928
17.5	6386.783	6367.562	6356.300	6337.777	6319.565	6330.942	6326.554	6333.222	6343.468	6352.270
20.0	5941.401	5930.996	5930.025	5908.110	5898.256	5896.435	5907.382	5898.995	5921.346	5908.599
22.5	5493.473	5408.644	5462.343	5399.991	5403.292	5444.037	5410.653	5396.969	5383.834	5434.078
25.0	4685.587	4817.631	4701.290	4820.155	4691.013	4708.893	4685.397	4794.682	4755.995	4787.381
27.5	3821.234	3761.604	3881.947	3780.051	3863.896	3789.457	3856.289	3785.659	3859.526	3808.779
30.0	2776.513	2740.999	2775.146	2773.696	2766.304	2833.684	2786.947	2818.897	2788.272	2866.223
32.5	1714.569	1889.054	1796.759	1917.772	1855.242	1858.370	1898.932	1984.033	1996.493	1980.047
35.0	1246.929	1158.707	1281.659	1185.946	1296.026	1288.076	1347.289	1292.574	1352.406	1318.479
37.5	806.974	854.513	842.963	873.963	862.080	892.404	912.833	950.357	952.456	944.601
40.0	602.218	589.800	615.680	603.392	622.941	641.075	657.744	659.651	657.555	655.688
42.5	402.785	431.600	423.890	441.136	436.032	439.504	457.553	470.741	469.622	457.597
45.0	302.241	300.759	310.969	307.656	315.650	321.827	326.222	320.472	317.803	316.185
47.5	208.530	229.319	224.321	234.909	231.810	226.173	234.016	232.075	233.576	224.678
50.0	176.647	176.426	184.625	180.791	186.275	185.077	182.203	171.857	166.667	170.962
52.5	148.402	155.971	156.880	158.402	157.456	154.334	150.677	148.558	142.448	144.987
55.0	141.109	141.144	146.789	142.148	143.277	141.064	136.648	132.844	126.302	130.504
57.5	133.812	134.461	138.054	134.425	133.989	130.055	127.780	125.421	119.299	122.915
60.0	126.505	127.137	130.963	127.174	128.222	124.353	122.569	118.122	113.432	116.924
62.5	117.902	119.050	120.928	120.472	117.791	119.026	114.571	110.934	106.416	111.710
65.0	105.229	107.297	107.957	108.042	104.579	104.775	104.937	101.542	99.320	103.103
67.5	91.790	92.129	92.503	90.454	91.564	90.399	91.872	90.494	86.856	93.166
70.0	76.857	74.986	75.306	73.931	78.626	77.006	77.306	75.627	74.296	79.763
72.5	61.624	56.954	58.107	57.981	60.461	63.041	61.602	58.912	61.440	65.467
75.0	46.246	42.144	42.389	44.324	44.532	47.673	46.528	43.830	48.066	49.453
77.5	32.581	29.519	31.244	31.147	32.607	33.293	34.198	30.982	34.086	35.048
80.0	20.911	19.342	20.980	19.859	21.293	21.050	22.827	21.700	22.160	22.742
82.5	10.538	11.016	11.412	12.276	11.476	12.865	14.125	14.182	12.594	13.613
85.0	4.358	4.390	4.809	5.766	6.297	5.164	7.478	5.968	5.971	5.418
87.5	2.227	1.121	1.583	2.474	2.720	1.859	2.061	1.761	1.819	3.238
90.0	0.000	0.000	0.000	0.000	0.000	1.048	0.771	1.059	0.943	1.022
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	9871.990	9871.990	9871.990	9871.990	9871.990	9871.990	9871.990
2.5	9742.212	9598.851	9780.711	9655.742	9813.085	9624.270	9701.388
5.0	9083.780	9182.833	9114.790	9136.494	9153.857	9240.174	9181.684
7.5	8433.177	8476.108	8439.236	8511.443	8483.624	8528.946	8468.670
10.0	7823.719	7806.439	7837.688	7836.177	7875.370	7843.496	7857.922
12.5	7249.039	7291.073	7248.787	7303.297	7278.563	7324.313	7286.429
15.0	6809.425	6797.627	6807.630	6823.999	6822.804	6818.910	6820.878
17.5	6372.729	6372.813	6367.272	6379.990	6368.516	6376.659	6386.783
20.0	5944.642	5930.419	5932.568	5946.433	5925.024	5922.810	5941.401
22.5	5429.653	5445.099	5440.838	5393.004	5429.511	5429.590	5493.473
25.0	4713.463	4786.350	4674.949	4813.248	4677.113	4789.627	4685.587
27.5	3873.998	3783.972	3843.410	3788.951	3849.348	3764.728	3821.234
30.0	2802.073	2828.168	2775.110	2697.258	2749.377	2777.075	2776.513
32.5	1926.801	1947.124	1849.744	1928.741	1798.090	1868.245	1714.569
35.0	1352.771	1284.472	1319.750	1190.921	1266.179	1174.544	1246.929
37.5	912.305	912.795	876.581	874.186	826.216	848.189	806.974
40.0	639.503	626.430	623.136	575.185	590.744	585.966	602.218
42.5	435.768	433.533	417.612	420.647	399.550	414.427	402.785
45.0	304.408	298.595	297.704	271.396	287.551	288.409	302.241
47.5	217.040	215.964	209.152	212.947	205.668	215.257	208.530
50.0	167.641	165.573	166.231	159.040	168.304	169.377	176.647
52.5	140.574	139.452	139.300	144.505	143.743	149.583	148.402
55.0	129.570	126.062	131.468	131.430	134.708	136.928	141.109
57.5	122.181	120.508	123.751	126.734	127.578	129.973	133.812
60.0	116.913	114.168	116.148	121.122	122.378	122.803	126.505
62.5	109.800	107.430	107.362	111.775	114.333	115.492	117.902
65.0	101.813	97.479	97.604	101.497	103.917	103.993	105.229

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_12 ~ SGE6BX80L-35KWD-DO101-AR6BXMWWF.IES****CANDELA TABULATION - (Cont.)**

67.5	91.173	86.229	86.827	88.532	91.025	90.307	91.790
70.0	79.584	74.385	75.387	74.982	76.674	73.115	76.857
72.5	64.078	62.375	60.607	60.650	60.215	55.960	61.624
75.0	49.163	49.721	45.377	45.952	44.425	45.114	46.246
77.5	37.507	37.095	34.947	32.049	31.706	32.361	32.581
80.0	25.323	24.575	23.120	20.083	21.024	20.294	20.911
82.5	14.159	13.484	12.072	8.793	12.816	12.098	10.538
85.0	6.797	6.371	5.444	4.772	5.583	5.308	4.358
87.5	3.066	2.902	2.790	1.969	1.609	1.669	2.227
90.0	0.854	0.702	1.481	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 : SP-00625_12 ~ SGE6BX80L-35KWD-DO101-AR6BXMWWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2732.11	N.A.	43.80
0-30	4811.72	N.A.	77.20
0-40	5688.59	N.A.	91.30
0-60	6072.44	N.A.	97.50
0-80	6222.73	N.A.	99.90
0-90	6231.22	N.A.	100.00
10-90	5403.6	N.A.	86.70
20-40	2956.49	N.A.	47.40
20-50	3215.12	N.A.	51.60
40-70	484.47	N.A.	7.80
60-80	150.29	N.A.	2.40
70-80	49.66	N.A.	0.80
80-90	8.49	N.A.	0.10
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	6231.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	827.62
10-20	1904.48
20-30	2079.61
30-40	876.87
40-50	258.63
50-60	125.22
60-70	100.63
70-80	49.66
80-90	8.49
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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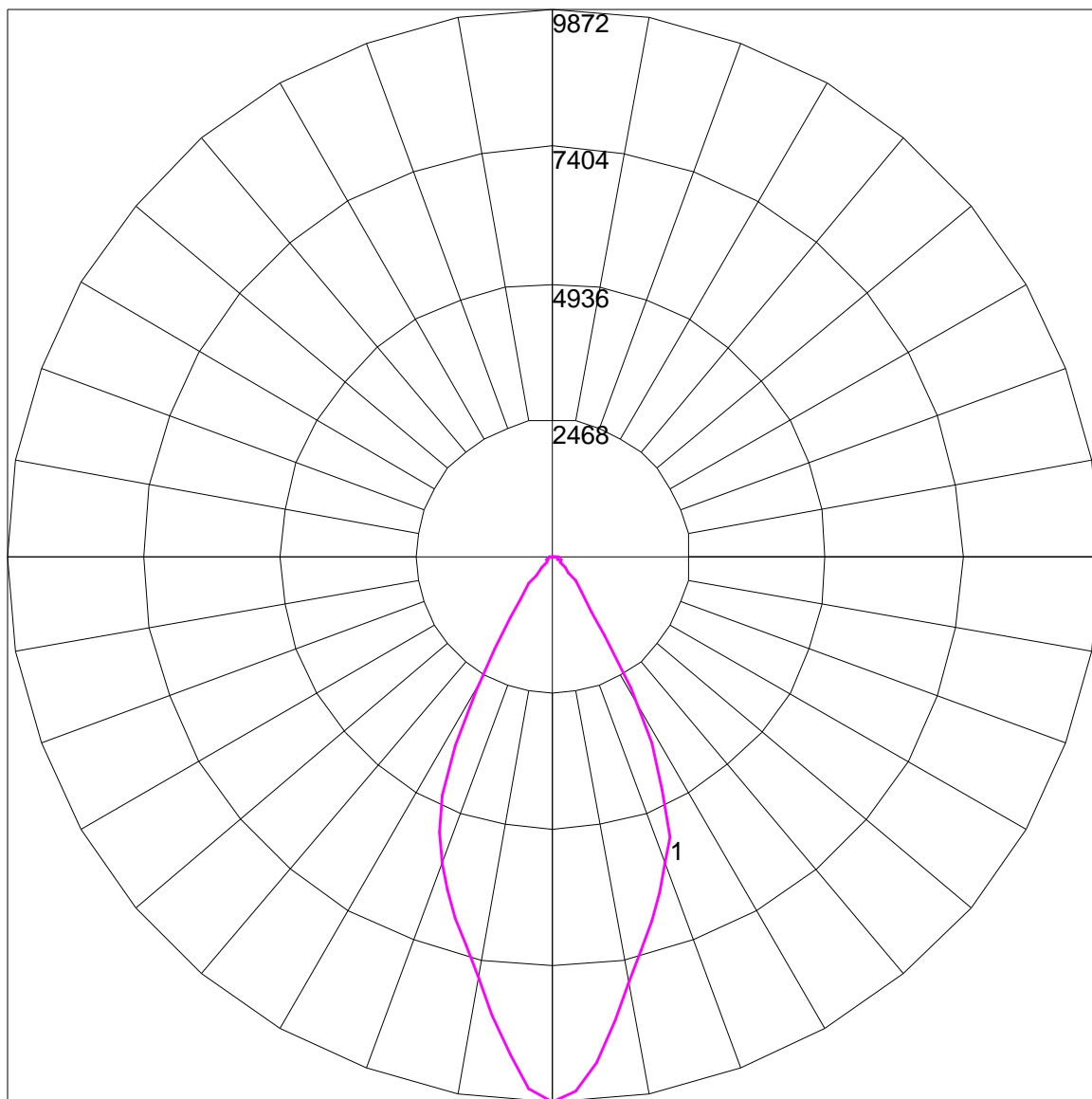
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76
5	93	85	79	75	91	84	79	75	82	78	74	80	76	73	79	75	73	71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	85	76	70	66	83	75	69	66	74	69	65	73	68	65	71	67	65	63
8	81	72	66	62	80	71	66	62	70	65	61	69	65	61	68	64	61	60
9	77	68	62	58	76	67	62	58	67	62	58	66	61	58	65	61	58	56
10	74	65	59	55	73	64	59	55	63	59	55	63	58	55	62	58	55	54

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00625_12 ~ SGE6BX80L-35KWD-DO101-AR6BXMWWF.IES

POLAR GRAPH



Maximum Candela = 9871.99 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)