

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00621_16 ~ SGE8BX60L-35KWD-DO101-AR8BXSGWF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00621_16_M-60L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 6/7/2018

[UPDATE] 7/19/2018

[LUMCAT] SGE8BX-60L35K-WD-DO101-AR8BX-SGWF

[LUMINAIRE] Nom. 8" Diam x 9" H, Open aperture

[OTHER] Semi-diffuse aluminum reflector trim

[OTHER] Deep regressed retrofit high output LED downlight

[OTHER] BX Series, Wide Beam

[OTHER] 60.2 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	4883
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	44
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.98
Spacing Criterion (90-270)	0.96
Spacing Criterion (Diagonal)	0.90
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.63 ft (Diameter)
Luminous Width (90-270)	0.63 ft (Diameter)
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00621_16 ~ SGE8BX60L-35KWD-DO101-AR8BXSGWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7273	7738	6719
55	158	72	102
65	78	34	69
75	100	98	90
85	282	267	228

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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	5918.586	5918.586	5918.586	5918.586	5918.586	5918.586	5918.586	5918.586	5918.586	5918.586
2.5	5869.593	5884.756	5871.016	5884.950	5870.952	5810.028	5842.449	5849.284	5875.929	5866.345
5.0	5791.205	5807.383	5788.480	5794.960	5790.552	5695.349	5746.900	5760.159	5793.032	5784.152
7.5	5641.377	5663.531	5632.945	5650.089	5630.698	5512.060	5581.982	5604.876	5651.747	5633.587
10.0	5475.905	5497.218	5461.229	5475.196	5458.511	5314.365	5395.325	5432.963	5483.143	5467.241
12.5	5270.706	5293.059	5242.158	5262.378	5235.548	5081.323	5172.352	5211.470	5268.469	5243.726
15.0	5059.507	5075.117	5016.567	5027.805	5006.257	4848.320	4937.080	4990.141	5031.138	5015.220
17.5	4831.929	4857.637	4770.749	4787.068	4748.996	4615.421	4719.861	4769.337	4807.967	4766.989
20.0	4612.944	4640.335	4543.492	4542.627	4504.293	4391.710	4509.113	4544.816	4592.224	4514.248
22.5	4418.762	4430.738	4378.590	4341.328	4320.845	4193.589	4265.330	4307.558	4305.477	4242.404
25.0	4158.624	4224.268	4159.659	4167.590	4107.048	3912.257	4008.807	4003.354	3979.657	3920.941
27.5	3692.857	3811.908	3747.435	3807.355	3732.978	3385.647	3501.770	3449.548	3489.111	3373.628
30.0	3167.577	3309.985	3255.886	3322.416	3293.506	2773.124	2892.809	2838.152	2902.088	2787.605
32.5	2445.227	2587.146	2454.945	2609.334	2467.834	1886.926	2102.199	1997.242	2155.381	2006.730
35.0	1730.863	1763.166	1683.036	1734.334	1666.447	1102.778	1232.403	1220.095	1310.694	1264.752
37.5	1044.644	1132.307	1032.395	1081.203	1022.111	664.137	718.481	721.641	751.109	735.107
40.0	465.477	595.898	470.499	592.748	437.939	295.825	367.827	290.579	374.697	265.315
42.5	297.286	322.192	306.782	305.287	282.687	181.123	189.649	176.594	170.091	161.873
45.0	149.066	183.423	158.610	173.790	137.730	81.559	94.666	75.224	82.701	67.574
47.5	82.896	97.104	87.497	86.863	77.263	41.534	43.223	37.988	33.601	34.724
50.0	26.386	39.060	25.494	36.597	21.687	8.434	14.188	6.006	11.829	5.506
52.5	13.479	12.622	12.421	10.038	11.270	4.519	3.127	3.801	1.937	3.286
55.0	2.634	4.322	1.197	3.855	1.694	1.240	1.773	1.827	1.040	1.299
57.5	1.827	1.104	1.098	0.831	1.378	0.904	1.175	1.285	0.653	1.319
60.0	1.135	0.939	0.972	0.683	1.076	0.620	1.012	0.803	0.671	1.311
62.5	1.054	0.720	0.668	0.688	0.967	0.596	0.842	0.739	0.657	1.034
65.0	0.957	0.466	0.412	0.839	0.850	0.576	0.667	0.688	0.616	0.777
67.5	0.772	0.381	0.485	0.891	0.635	0.577	0.706	0.732	0.564	0.724
70.0	0.648	0.400	0.579	0.853	0.479	0.571	0.868	0.742	0.503	0.698
72.5	0.715	0.470	0.752	0.773	0.629	0.544	0.729	0.617	0.642	0.806
75.0	0.750	0.550	0.735	0.671	0.678	0.458	0.506	0.555	0.864	0.815
77.5	0.752	0.532	0.520	0.648	0.597	0.317	0.417	0.560	0.787	0.704
80.0	0.527	0.641	0.836	0.755	0.584	0.555	0.564	0.671	0.684	0.522
82.5	0.433	0.650	0.635	0.750	0.580	0.669	0.946	0.408	0.618	0.400
85.0	0.712	0.481	0.675	0.486	0.575	0.724	0.989	0.410	0.654	0.473
87.5	0.644	0.602	0.585	0.757	0.502	0.827	0.452	0.642	0.655	0.346
90.0	0.668	0.258	0.502	0.321	0.545	0.854	0.163	0.214	0.391	0.476
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	5918.586	5918.586	5918.586	5918.586	5918.586	5918.586	5918.586
2.5	5885.536	5875.846	5880.329	5883.540	5868.211	5876.938	5869.593
5.0	5805.907	5793.567	5799.466	5827.306	5806.562	5800.063	5791.205
7.5	5668.002	5647.706	5655.459	5709.253	5663.527	5659.720	5641.377
10.0	5506.192	5481.357	5492.417	5561.337	5507.695	5493.780	5475.905
12.5	5297.018	5270.226	5282.256	5375.543	5301.434	5293.904	5270.706
15.0	5067.032	5043.159	5056.720	5170.226	5086.898	5079.600	5059.507
17.5	4827.404	4779.429	4817.892	4931.813	4837.423	4857.535	4831.929
20.0	4583.317	4521.023	4574.469	4675.499	4595.949	4631.940	4612.944
22.5	4292.793	4275.518	4293.411	4440.787	4391.661	4397.301	4418.762
25.0	3979.339	3950.514	3998.339	4218.328	4143.813	4158.338	4158.624
27.5	3490.384	3418.750	3507.991	3818.853	3677.416	3740.837	3692.857
30.0	2910.425	2830.127	2940.861	3312.566	3179.336	3233.598	3167.577
32.5	2185.395	2085.253	2203.491	2676.690	2508.904	2557.114	2445.227
35.0	1381.429	1378.230	1395.523	1958.922	1831.616	1789.940	1730.863
37.5	818.858	783.314	845.585	1288.596	1112.518	1149.506	1044.644
40.0	396.107	303.722	410.236	650.114	464.976	580.303	465.477
42.5	180.377	186.332	205.134	308.031	296.389	288.596	297.286
45.0	90.286	86.475	107.605	174.084	140.526	162.815	149.066
47.5	39.889	46.284	53.431	89.523	82.022	84.746	82.896
50.0	15.092	13.558	20.886	41.754	28.253	36.558	26.386
52.5	4.209	7.896	7.228	15.989	14.977	12.759	13.479
55.0	2.719	3.238	3.462	7.362	2.852	4.951	2.634
57.5	1.883	2.469	1.949	2.969	1.863	1.411	1.827
60.0	1.515	1.767	1.677	2.023	0.959	0.843	1.135
62.5	1.105	1.350	1.411	1.598	1.060	0.652	1.054
65.0	0.663	0.989	1.151	1.621	1.138	0.737	0.957

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00621_16 ~ SGE8BX60L-35KWD-DO101-AR8BXSGWF.IES****CANDELA TABULATION - (Cont.)**

67.5	0.596	0.875	0.822	1.313	0.940	0.606	0.772
70.0	0.797	0.775	0.457	0.730	0.790	0.324	0.648
72.5	0.752	0.717	0.571	0.645	0.876	0.444	0.715
75.0	0.608	0.666	0.803	0.785	0.832	0.709	0.750
77.5	0.529	0.622	0.741	0.527	0.629	0.727	0.752
80.0	0.474	0.746	0.826	0.878	0.590	0.526	0.527
82.5	0.407	0.579	0.716	1.152	0.490	0.432	0.433
85.0	0.471	0.534	0.338	0.398	0.553	0.758	0.712
87.5	0.705	0.605	0.444	0.613	0.929	0.680	0.644
90.0	0.204	0.343	0.185	0.101	0.355	0.087	0.668
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-00621_16 ~ SGE8BX60L-35KWD-DO101-AR8BXSGWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1952.95	N.A.	40.00
0-30	3762.63	N.A.	77.00
0-40	4752.94	N.A.	97.30
0-60	4881.22	N.A.	100.00
0-80	4882.74	N.A.	100.00
0-90	4883.38	N.A.	100.00
10-90	4341.58	N.A.	88.90
20-40	2799.99	N.A.	57.30
20-50	2922.91	N.A.	59.90
40-70	129.11	N.A.	2.60
60-80	1.52	N.A.	0.00
70-80	0.69	N.A.	0.00
80-90	0.63	N.A.	0.00
90-110	0.05	N.A.	0.00
90-120	0.05	N.A.	0.00
90-130	0.05	N.A.	0.00
90-150	0.05	N.A.	0.00
90-180	0.05	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4883.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	541.80
10-20	1411.15
20-30	1809.68
30-40	990.31
40-50	122.92
50-60	5.36
60-70	0.83
70-80	0.69
80-90	0.63
90-100	0.05
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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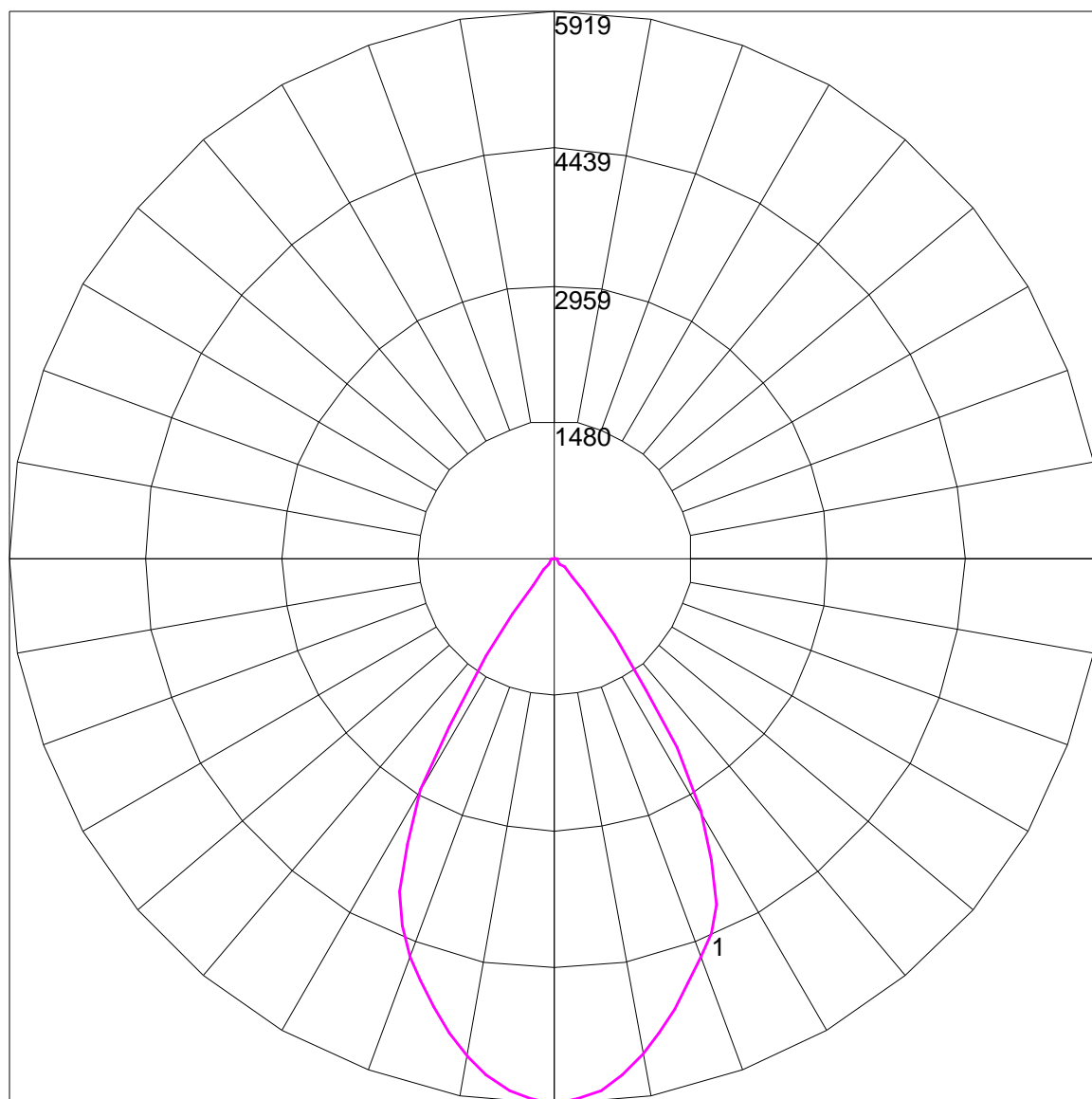
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88
3	103	97	92	89	101	96	91	88	93	90	87	91	88	85	89	86	84	82
4	98	91	86	82	97	90	85	81	88	84	80	86	82	80	84	81	79	77
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72
6	89	81	75	71	88	80	75	71	78	74	70	77	73	70	76	72	69	68
7	85	76	70	66	84	75	70	66	74	69	66	73	69	65	72	68	65	64
8	81	72	66	62	80	71	66	62	70	65	62	69	65	62	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	64	59	55	73	64	59	55	63	58	55	62	58	55	62	58	55	53

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00621_16 ~ SGE8BX60L-35KWD-DO101-AR8BXSGWF.IES

POLAR GRAPH



Maximum Candela = 5918.586 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)