

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00621_17 ~ SGE8BX60L-35KXW-DO101-AR8BXMWWF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00621_17_M-60L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 6/7/2018

[UPDATE] 7/19/2018

[LUMCAT] SGE8BX-60L-35K-XW-DO101-AR8BX-MWWF

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

[OTHER] Matte White reflector trim

[OTHER] Deep regressed retrofit high output LED downlight

[OTHER] BX Series, Xtra Wide Beam

[OTHER] 66.1 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	4857
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	44
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.10
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	0.96
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_17 ~ SGE8BX60L-35KXW-DO101-AR8BXMWWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16075	16729	16666
55	2428	2593	2740
65	1214	1107	1107
75	789	918	908
85	383	495	549

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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	4673.604	4673.604	4673.604	4673.604	4673.604	4673.604	4673.604	4673.604	4673.604	4673.604
2.5	4670.835	4680.893	4676.345	4680.002	4673.550	4644.748	4664.309	4660.202	4668.994	4656.730
5.0	4639.002	4642.070	4636.995	4634.456	4629.881	4606.551	4623.695	4631.397	4633.598	4626.162
7.5	4599.772	4602.511	4589.708	4587.854	4581.066	4563.684	4581.756	4597.867	4598.668	4592.642
10.0	4558.352	4560.871	4535.483	4537.075	4531.205	4506.573	4537.078	4552.946	4564.979	4545.422
12.5	4516.453	4511.580	4480.196	4480.158	4481.262	4444.623	4482.102	4505.107	4519.878	4495.500
15.0	4449.536	4443.731	4403.735	4403.272	4396.812	4357.873	4408.494	4439.290	4448.915	4420.852
17.5	4378.363	4371.472	4324.943	4321.498	4310.839	4263.979	4328.765	4369.783	4367.318	4342.352
20.0	4273.801	4290.073	4233.815	4226.174	4209.033	4155.795	4239.446	4251.036	4264.726	4209.990
22.5	4165.036	4173.978	4141.770	4115.392	4105.504	4044.258	4094.641	4124.255	4098.500	4071.568
25.0	3920.624	3995.968	3946.211	3968.311	3929.277	3794.515	3874.192	3816.240	3823.831	3756.845
27.5	3664.132	3731.479	3746.836	3737.565	3736.544	3518.447	3526.900	3486.587	3462.908	3429.351
30.0	3199.955	3331.248	3242.292	3338.677	3259.830	2892.127	3026.544	2895.552	2972.507	2857.875
32.5	2725.261	2775.313	2727.565	2796.833	2754.569	2215.118	2374.535	2282.823	2346.155	2276.887
35.0	1925.346	2006.759	1918.841	2003.353	1941.832	1516.659	1562.612	1548.683	1542.071	1521.449
37.5	1126.586	1357.840	1138.895	1333.326	1181.519	815.911	988.912	809.082	951.207	779.154
40.0	785.873	853.517	797.026	851.698	811.031	579.082	637.974	582.170	603.706	553.363
42.5	454.944	518.081	474.438	511.152	475.669	373.345	408.563	362.574	371.526	335.198
45.0	329.497	361.011	342.892	360.786	341.610	264.072	278.440	257.927	256.052	237.227
47.5	208.055	238.593	218.174	239.269	217.947	157.741	179.566	155.798	165.270	143.255
50.0	133.281	148.626	141.135	151.688	140.958	99.278	103.283	97.668	96.332	89.869
52.5	64.076	84.764	71.630	86.889	74.222	42.410	57.457	43.426	53.366	41.731
55.0	40.363	42.262	43.113	45.845	45.558	30.307	30.781	31.492	30.755	30.915
57.5	19.798	22.425	19.578	23.905	22.999	18.848	18.986	20.670	19.818	21.364
60.0	18.160	18.762	17.435	19.379	19.178	16.737	15.420	18.185	16.851	18.800
62.5	16.520	16.238	15.366	16.277	15.798	14.625	13.931	15.694	15.103	16.316
65.0	14.870	14.432	13.561	14.325	13.558	12.504	13.431	13.184	14.087	14.180
67.5	12.697	11.778	11.606	12.109	11.611	10.349	11.081	10.803	12.268	11.812
70.0	9.012	8.723	9.298	9.730	10.195	8.041	8.067	8.849	10.086	8.818
72.5	6.740	7.172	7.754	7.501	8.577	5.949	6.832	6.711	7.756	6.450
75.0	5.918	5.674	6.887	5.495	6.815	4.147	5.366	4.362	5.496	4.703
77.5	4.267	3.657	4.162	4.229	4.316	2.535	3.026	3.439	3.498	3.567
80.0	2.836	2.630	2.248	3.230	2.671	1.939	1.979	2.836	2.389	2.585
82.5	1.704	1.735	1.431	1.866	1.859	2.060	1.674	2.083	1.995	1.590
85.0	0.967	1.205	1.250	1.049	1.386	1.231	1.398	1.047	1.468	0.882
87.5	1.033	1.397	0.882	1.079	1.315	0.980	0.946	0.884	0.662	0.904
90.0	0.697	0.479	0.533	0.466	0.693	0.635	0.426	1.088	0.503	0.694
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	4673.604	4673.604	4673.604	4673.604	4673.604	4673.604	4673.604
2.5	4666.881	4656.442	4668.282	4676.538	4665.313	4672.195	4670.835
5.0	4632.196	4623.740	4627.736	4636.392	4632.920	4630.678	4639.002
7.5	4596.545	4588.552	4587.646	4599.157	4591.272	4592.024	4599.772
10.0	4557.590	4544.242	4549.789	4567.313	4549.619	4560.017	4558.352
12.5	4507.203	4498.829	4503.105	4522.127	4507.964	4514.667	4516.453
15.0	4424.268	4414.918	4421.773	4455.574	4434.479	4442.357	4449.536
17.5	4333.810	4327.919	4334.861	4373.224	4353.100	4361.883	4378.363
20.0	4225.247	4206.281	4229.591	4268.553	4243.608	4267.188	4273.801
22.5	4074.765	4083.173	4090.889	4137.533	4128.556	4129.577	4165.036
25.0	3836.653	3804.775	3860.253	3974.052	3893.224	3926.150	3920.624
27.5	3504.283	3517.512	3538.831	3699.460	3639.671	3641.099	3664.132
30.0	3002.256	2923.715	3002.213	3303.554	3175.410	3247.084	3199.955
32.5	2382.576	2320.108	2376.418	2748.368	2687.339	2697.650	2725.261
35.0	1576.675	1541.031	1569.801	2041.145	1919.847	1964.515	1925.346
37.5	961.642	808.490	937.215	1395.387	1131.984	1329.954	1126.586
40.0	609.367	567.186	608.879	801.637	768.282	797.223	785.873
42.5	365.531	342.292	366.242	466.072	421.299	467.639	454.944
45.0	253.813	241.778	255.479	321.144	307.019	324.150	329.497
47.5	163.275	147.796	163.459	215.759	194.961	214.953	208.055
50.0	95.283	90.787	96.543	135.782	128.643	133.197	133.281
52.5	52.244	42.091	51.152	82.411	64.982	78.435	64.076
55.0	32.426	31.219	31.284	44.082	43.463	42.504	40.363
57.5	22.135	22.073	20.013	27.948	23.603	26.051	19.798
60.0	19.702	19.278	17.652	22.628	20.666	21.584	18.160
62.5	17.622	16.354	15.319	19.197	17.900	18.599	16.520
65.0	15.796	13.030	13.010	16.566	16.352	16.403	14.870

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00621_17 ~ SGE8BX60L-35KXW-DO101-AR8BXMWWF.IES****CANDELA TABULATION - (Cont.)**

67.5	12.859	10.300	10.196	13.476	14.379	13.885	12.697
70.0	9.306	8.808	7.030	10.243	10.808	11.237	9.012
72.5	6.776	6.857	5.732	8.213	7.870	8.061	6.740
75.0	4.704	4.534	4.790	6.122	5.712	5.314	5.918
77.5	3.554	2.836	3.198	3.752	4.055	3.825	4.267
80.0	2.294	1.869	2.197	3.160	2.829	2.380	2.836
82.5	1.782	1.406	1.656	2.149	2.171	1.807	1.704
85.0	1.156	0.890	1.132	1.376	1.740	1.383	0.967
87.5	0.967	0.660	0.650	0.917	0.982	1.101	1.033
90.0	0.758	0.536	0.464	0.458	0.757	0.613	0.697
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_17 ~ SGE8BX60L-35KXW-DO101-AR8BXMWWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1686.07	N.A.	34.70
0-30	3437.56	N.A.	70.80
0-40	4544.88	N.A.	93.60
0-60	4835.21	N.A.	99.60
0-80	4855.01	N.A.	100.00
0-90	4856.52	N.A.	100.00
10-90	4417.1	N.A.	91.00
20-40	2858.82	N.A.	58.90
20-50	3107.47	N.A.	64.00
40-70	304.31	N.A.	6.30
60-80	19.80	N.A.	0.40
70-80	5.81	N.A.	0.10
80-90	1.51	N.A.	0.00
90-110	0.08	N.A.	0.00
90-120	0.08	N.A.	0.00
90-130	0.08	N.A.	0.00
90-150	0.08	N.A.	0.00
90-180	0.08	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4856.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	439.42
10-20	1246.64
20-30	1751.49
30-40	1107.32
40-50	248.65
50-60	41.67
60-70	13.99
70-80	5.81
80-90	1.51
90-100	0.08
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

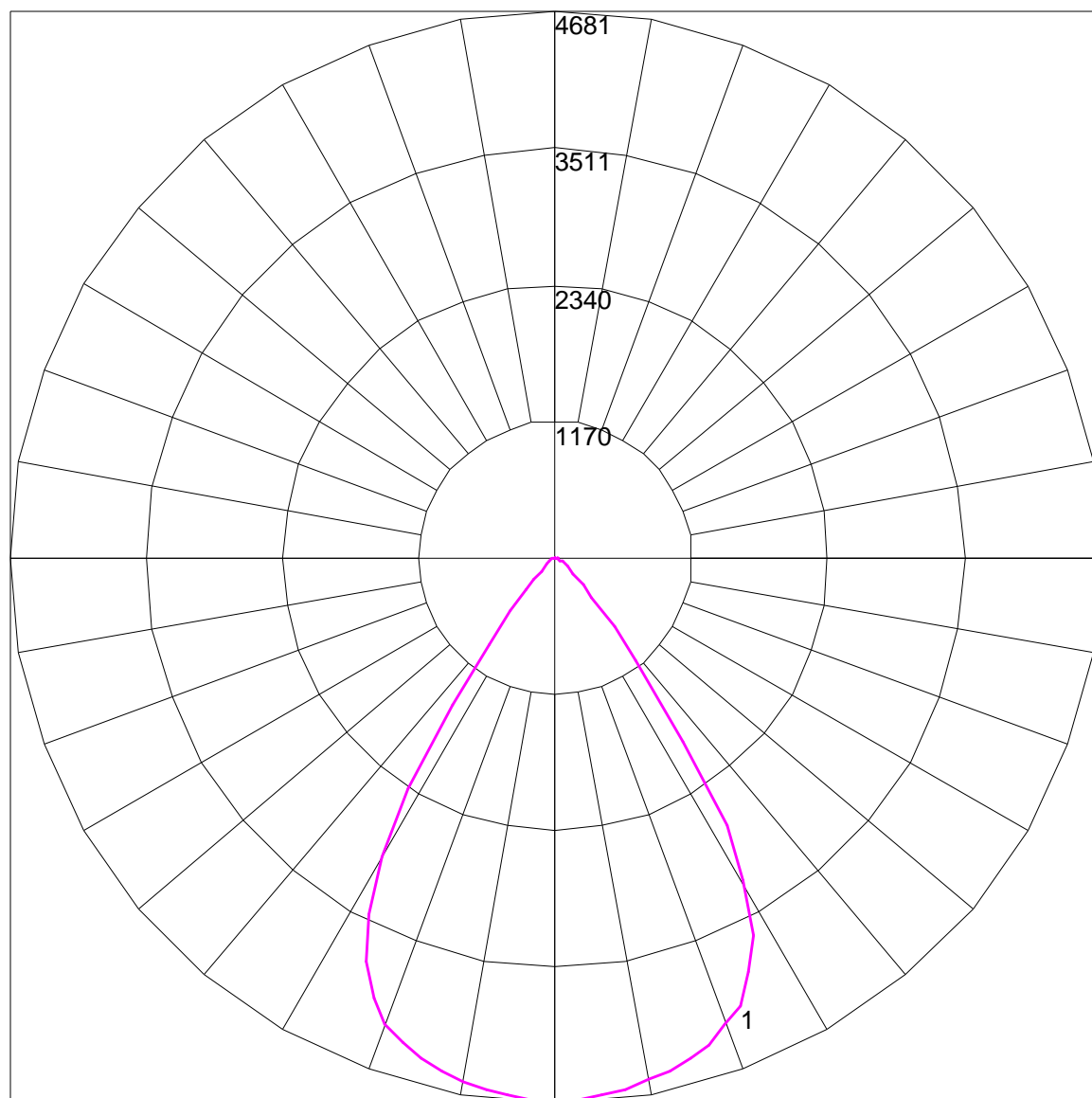
Effective Floor Cavity Reflectance 0.20

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	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75
5	92	84	78	73	90	83	77	73	81	76	72	79	75	72	78	74	71	70
6	87	78	72	68	86	77	72	68	76	71	67	75	70	67	73	69	66	65
7	83	73	67	63	81	73	67	63	71	66	63	70	66	62	69	65	62	60
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57
9	75	65	59	55	74	64	59	55	64	58	55	63	58	54	62	57	54	53
10	71	61	55	52	70	61	55	51	60	55	51	59	55	51	59	54	51	50

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00621_17 ~ SGE8BX60L-35KXW-DO101-AR8BXMWWF.IES

POLAR GRAPH



Maximum Candela = 4680.893 Located At Horizontal Angle = 22.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)