

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00621_17 ~ SGE8BX70L-35KXW-DO101-AR8BXMWWF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00621_17_M-70L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 6/7/2018

[UPDATE] 7/19/2018

[LUMCAT] SGE8BX-70L-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	5521
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	51
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 ~ SGE8BX70L-35KXW-DO101-AR8BXMWWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18275	19018	18947
55	2760	2948	3115
65	1380	1258	1258
75	897	1044	1033
85	435	562	624

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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	5313.150	5313.150	5313.150	5313.150	5313.150	5313.150	5313.150	5313.150	5313.150	5313.150
2.5	5310.002	5321.437	5316.266	5320.423	5313.089	5280.346	5302.583	5297.914	5307.909	5293.967
5.0	5273.813	5277.301	5271.531	5268.644	5263.444	5236.922	5256.411	5265.167	5267.670	5259.216
7.5	5229.215	5232.328	5217.774	5215.666	5207.948	5188.188	5208.733	5227.049	5227.960	5221.109
10.0	5182.126	5184.990	5156.128	5157.938	5151.265	5123.263	5157.942	5175.980	5189.661	5167.428
12.5	5134.495	5128.954	5093.276	5093.233	5094.488	5052.835	5095.443	5121.595	5138.388	5110.674
15.0	5058.420	5051.821	5006.351	5005.825	4998.481	4954.213	5011.762	5046.772	5057.714	5025.810
17.5	4977.508	4969.674	4916.777	4912.861	4900.743	4847.471	4921.123	4967.754	4964.951	4936.569
20.0	4858.637	4877.136	4813.179	4804.492	4785.007	4724.483	4819.580	4832.756	4848.320	4786.094
22.5	4734.988	4745.155	4708.539	4678.551	4667.310	4597.683	4654.961	4688.627	4659.347	4628.730
25.0	4457.131	4542.785	4486.219	4511.343	4466.967	4313.765	4404.345	4338.463	4347.093	4270.940
27.5	4165.540	4242.103	4259.562	4249.022	4247.860	3999.919	4009.529	3963.699	3936.780	3898.631
30.0	3637.844	3787.103	3685.974	3795.549	3705.912	3287.892	3440.703	3291.786	3379.272	3248.953
32.5	3098.192	3155.093	3100.811	3179.557	3131.510	2518.240	2699.471	2595.209	2667.208	2588.461
35.0	2188.814	2281.369	2181.419	2277.496	2207.556	1724.202	1776.443	1760.608	1753.091	1729.647
37.5	1280.750	1543.650	1294.744	1515.781	1343.200	927.562	1124.237	919.798	1081.372	885.775
40.0	893.414	970.314	906.092	968.246	922.014	658.325	725.276	661.835	686.318	629.086
42.5	517.199	588.976	539.361	581.100	540.760	424.435	464.472	412.189	422.366	381.067
45.0	374.586	410.413	389.814	410.156	388.357	300.208	316.543	293.223	291.090	269.690
47.5	236.525	271.242	248.029	272.011	247.771	179.327	204.138	177.117	187.885	162.859
50.0	151.520	168.965	160.448	172.446	160.247	112.863	117.417	111.033	109.514	102.167
52.5	72.845	96.363	81.432	98.779	84.379	48.213	65.319	49.368	60.668	47.441
55.0	45.886	48.045	49.013	52.119	51.792	34.455	34.993	35.802	34.963	35.146
57.5	22.507	25.493	22.257	27.176	26.146	21.427	21.584	23.499	22.530	24.288
60.0	20.645	21.330	19.821	22.031	21.802	19.028	17.530	20.673	19.157	21.373
62.5	18.781	18.460	17.468	18.504	17.960	16.627	15.837	17.842	17.169	18.549
65.0	16.905	16.406	15.417	16.286	15.414	14.215	15.269	14.988	16.014	16.121
67.5	14.434	13.390	13.194	13.766	13.199	11.765	12.597	12.282	13.947	13.428
70.0	10.245	9.916	10.570	11.062	11.590	9.141	9.170	10.060	11.466	10.025
72.5	7.662	8.154	8.815	8.528	9.751	6.763	7.766	7.629	8.817	7.333
75.0	6.728	6.451	7.830	6.247	7.747	4.715	6.100	4.959	6.248	5.346
77.5	4.851	4.158	4.731	4.807	4.907	2.882	3.440	3.910	3.977	4.055
80.0	3.224	2.989	2.556	3.672	3.036	2.204	2.250	3.224	2.716	2.938
82.5	1.937	1.973	1.627	2.121	2.113	2.341	1.903	2.368	2.268	1.807
85.0	1.100	1.370	1.421	1.192	1.576	1.400	1.589	1.191	1.669	1.003
87.5	1.174	1.588	1.002	1.227	1.495	1.115	1.076	1.005	0.753	1.028
90.0	0.792	0.544	0.606	0.530	0.788	0.722	0.484	1.237	0.572	0.789
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	5313.150	5313.150	5313.150	5313.150	5313.150	5313.150	5313.150
2.5	5305.507	5293.639	5307.099	5316.486	5303.725	5311.548	5310.002
5.0	5266.076	5256.462	5261.005	5270.846	5266.899	5264.350	5273.813
7.5	5225.546	5216.459	5215.429	5228.516	5219.552	5220.407	5229.215
10.0	5181.260	5166.086	5172.392	5192.314	5172.199	5184.020	5182.126
12.5	5123.978	5114.459	5119.319	5140.944	5124.844	5132.464	5134.495
15.0	5029.694	5019.065	5026.858	5065.285	5041.303	5050.259	5058.420
17.5	4926.858	4920.160	4928.052	4971.665	4948.787	4958.773	4977.508
20.0	4803.438	4781.877	4808.377	4852.671	4824.313	4851.119	4858.637
22.5	4632.365	4641.923	4650.695	4703.722	4693.516	4694.677	4734.988
25.0	4361.669	4325.429	4388.498	4517.870	4425.981	4463.413	4457.131
27.5	3983.817	3998.856	4023.093	4205.702	4137.732	4139.355	4165.540
30.0	3413.091	3323.803	3413.042	3755.620	3609.940	3691.422	3637.844
32.5	2708.613	2637.597	2701.612	3124.461	3055.080	3066.803	3098.192
35.0	1792.431	1751.909	1784.616	2320.460	2182.563	2233.343	2188.814
37.5	1093.236	919.126	1065.466	1586.334	1286.887	1511.948	1280.750
40.0	692.754	644.801	692.199	911.335	873.416	906.316	893.414
42.5	415.551	389.132	416.360	529.850	478.951	531.632	517.199
45.0	288.545	274.863	290.439	365.090	349.033	368.507	374.586
47.5	185.617	168.020	185.827	245.284	221.639	244.368	236.525
50.0	108.322	103.211	109.754	154.362	146.247	151.424	151.520
52.5	59.393	47.851	58.152	93.689	73.874	89.168	72.845
55.0	36.863	35.491	35.565	50.114	49.410	48.320	45.886
57.5	25.164	25.094	22.752	31.773	26.833	29.616	22.507
60.0	22.398	21.916	20.067	25.725	23.494	24.538	20.645
62.5	20.034	18.592	17.415	21.824	20.349	21.144	18.781
65.0	17.957	14.813	14.790	18.833	18.590	18.648	16.905

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00621_17 ~ SGE8BX70L-35KXW-DO101-AR8BXMWWF.IES****CANDELA TABULATION - (Cont.)**

67.5	14.619	11.709	11.591	15.320	16.347	15.785	14.434
70.0	10.580	10.014	7.992	11.644	12.287	12.774	10.245
72.5	7.703	7.795	6.516	9.337	8.947	9.164	7.662
75.0	5.348	5.155	5.446	6.960	6.494	6.041	6.728
77.5	4.040	3.224	3.636	4.266	4.610	4.349	4.851
80.0	2.608	2.125	2.498	3.593	3.216	2.706	3.224
82.5	2.026	1.598	1.883	2.443	2.468	2.054	1.937
85.0	1.314	1.012	1.287	1.565	1.979	1.572	1.100
87.5	1.100	0.751	0.739	1.042	1.116	1.252	1.174
90.0	0.861	0.609	0.527	0.521	0.861	0.697	0.792
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 ~ SGE8BX70L-35KXW-DO101-AR8BXMWWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1916.79	N.A.	34.70
0-30	3907.97	N.A.	70.80
0-40	5166.82	N.A.	93.60
0-60	5496.87	N.A.	99.60
0-80	5519.38	N.A.	100.00
0-90	5521.09	N.A.	100.00
10-90	5021.54	N.A.	91.00
20-40	3250.02	N.A.	58.90
20-50	3532.7	N.A.	64.00
40-70	345.96	N.A.	6.30
60-80	22.51	N.A.	0.40
70-80	6.60	N.A.	0.10
80-90	1.72	N.A.	0.00
90-110	0.10	N.A.	0.00
90-120	0.10	N.A.	0.00
90-130	0.10	N.A.	0.00
90-150	0.10	N.A.	0.00
90-180	0.10	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5521.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	499.55
10-20	1417.24
20-30	1991.17
30-40	1258.85
40-50	282.67
50-60	47.38
60-70	15.90
70-80	6.60
80-90	1.72
90-100	0.10
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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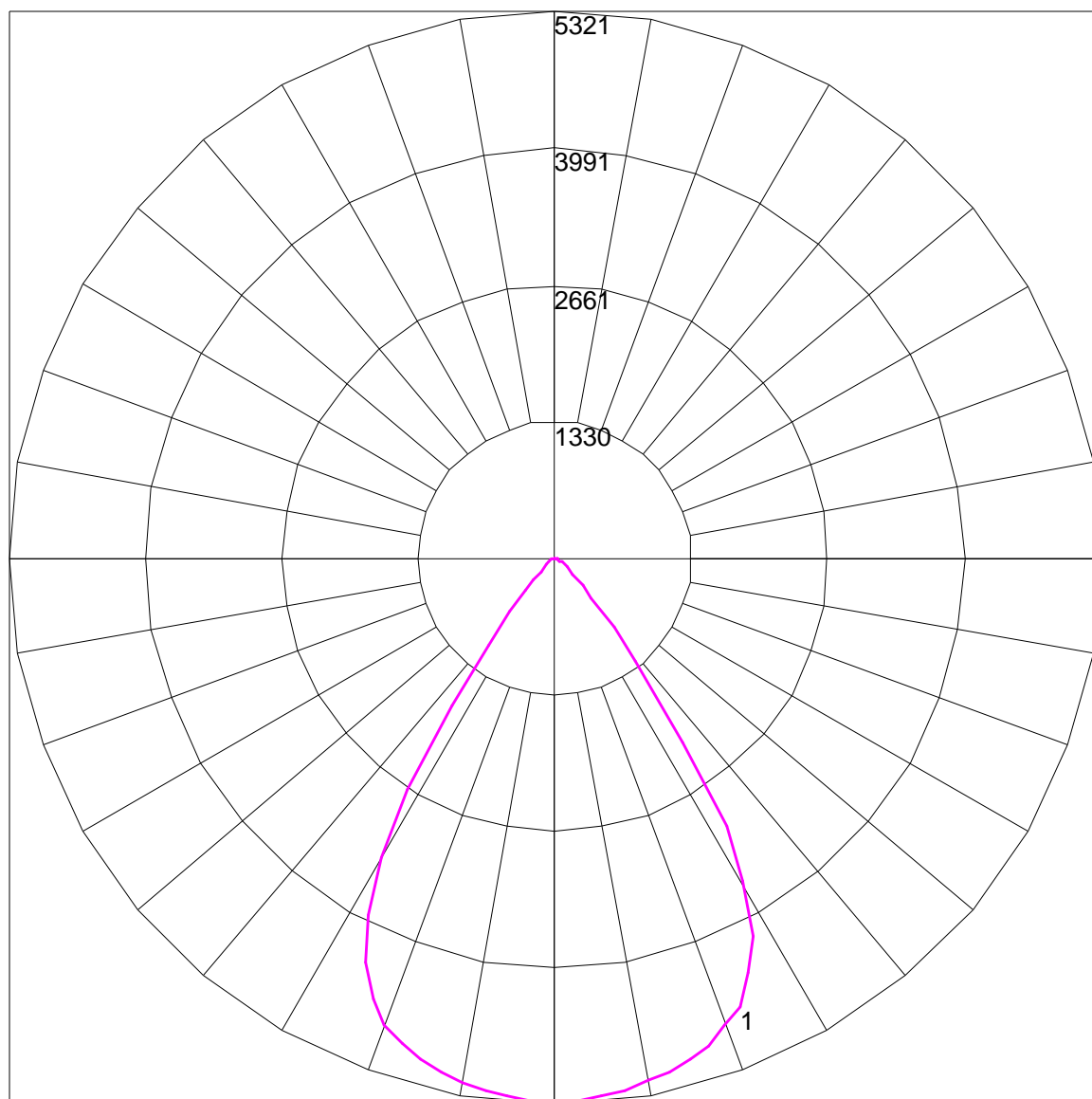
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	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	65	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 ~ SGE8BX70L-35KXW-DO101-AR8BXMWWF.IES

POLAR GRAPH



Maximum Candela = 5321.437 Located At Horizontal Angle = 22.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)