

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00621_13 ~ SGE8BX70L-35KND-DO101-AR8BXMWWF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00621_13_M-70L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 6/7/2018

[UPDATE] 7/19/2018

[LUMCAT] SGE8BX-70L35K-ND-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, Narrow Beam

[OTHER] 24.7 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	5646
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	51
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.42
Spacing Criterion (90-270)	0.42
Spacing Criterion (Diagonal)	0.44
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_13 ~ SGE8BX70L-35KND-DO101-AR8BXMWWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1674	1627	1751
55	1518	1302	1520
65	1061	1155	1324
75	544	502	579
85	338	435	577

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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	19248.547	19248.547	19248.547	19248.547	19248.547	19248.547	19248.547	19248.547	19248.547	19248.547
2.5	18735.599	19182.199	18834.794	19059.314	18753.890	19047.684	18674.790	18703.164	18636.420	18898.627
5.0	17874.562	17494.912	17869.146	17518.714	17804.855	17445.102	17574.555	17233.751	17508.088	17297.247
7.5	15156.452	15584.799	15265.291	15523.056	15180.282	15618.562	15079.246	15026.281	15040.892	15257.817
10.0	12381.336	12326.084	12451.899	12197.797	12220.822	12349.144	12377.906	12003.129	12372.938	12130.638
12.5	9359.246	9315.441	9222.518	9213.316	9261.475	9267.930	9321.955	9296.960	9360.369	9306.576
15.0	6824.372	6980.443	6738.697	6746.022	6479.689	7008.405	6954.748	6790.136	6999.437	6896.506
17.5	5294.805	5173.745	5082.573	5028.484	5116.339	5153.835	5250.059	5260.288	5272.098	5232.789
20.0	4146.429	4124.850	4018.448	3968.380	3949.310	4139.296	4168.524	4051.188	4187.386	4143.912
22.5	3436.004	3389.645	3323.183	3343.019	3370.736	3394.520	3429.500	3445.408	3454.927	3470.857
25.0	2915.461	2914.873	2901.048	2926.958	2903.860	2961.141	2975.601	2918.099	2992.823	2972.788
27.5	2519.272	2518.349	2569.122	2577.222	2612.373	2576.134	2598.629	2556.208	2604.833	2609.039
30.0	2078.900	2157.213	2102.335	2242.980	2199.319	2222.961	2161.880	2159.014	2226.331	2270.356
32.5	1623.258	1543.864	1614.477	1603.029	1677.582	1653.614	1704.608	1588.935	1829.690	1779.469
35.0	1013.042	876.721	960.102	965.933	1093.641	1009.100	1021.702	1025.622	1150.045	1274.888
37.5	392.051	480.397	383.663	514.175	478.631	565.776	431.797	477.479	547.951	691.169
40.0	201.539	127.542	183.048	150.384	221.579	156.591	204.202	141.104	253.029	227.959
42.5	41.027	74.470	41.568	79.987	50.794	90.563	50.636	66.296	54.559	108.696
45.0	34.318	33.704	33.349	34.792	35.882	34.703	38.762	34.488	42.910	36.259
47.5	29.348	31.014	28.520	33.197	29.976	32.730	32.067	33.023	34.608	34.535
50.0	28.460	27.675	27.841	30.218	29.100	30.396	30.935	31.443	29.943	32.816
52.5	27.130	23.274	25.377	25.898	27.841	27.214	27.894	29.820	27.113	31.100
55.0	25.238	20.998	21.648	23.049	25.266	24.992	23.690	27.536	25.416	28.873
57.5	22.807	20.669	19.854	21.012	22.274	24.011	23.332	25.149	23.052	26.402
60.0	19.978	19.162	18.784	18.869	18.545	22.350	24.190	23.578	20.476	25.540
62.5	16.597	17.042	16.562	16.699	16.537	20.188	20.027	21.394	19.896	25.042
65.0	12.998	13.919	14.152	12.231	16.223	16.373	15.366	15.519	19.427	19.377
67.5	9.126	10.544	10.996	7.926	12.863	11.897	12.449	10.996	15.601	13.712
70.0	5.424	8.242	8.047	7.520	7.800	9.271	9.477	9.924	11.693	10.472
72.5	4.874	6.111	5.921	6.431	5.847	6.974	6.297	7.813	7.447	7.807
75.0	4.079	4.358	3.767	4.109	4.341	4.934	4.000	4.590	4.304	6.556
77.5	2.965	2.347	1.842	2.983	2.634	3.505	2.595	3.997	2.366	4.812
80.0	1.628	1.388	1.780	2.370	2.182	2.745	2.137	3.135	2.752	2.957
82.5	1.287	1.566	1.198	1.801	1.508	1.502	1.617	1.394	1.716	1.741
85.0	0.853	1.102	1.099	0.959	1.458	0.931	0.917	0.782	0.782	0.613
87.5	0.647	0.893	0.619	0.721	0.750	1.539	0.753	0.801	0.805	1.264
90.0	0.000	0.000	0.000	0.000	0.000	0.742	0.733	0.598	0.869	0.762
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	19248.547	19248.547	19248.547	19248.547	19248.547	19248.547	19248.547
2.5	18661.381	19042.250	18799.707	18850.276	18683.283	19053.507	18735.599
5.0	17690.661	17316.341	17511.190	17287.837	17791.652	17519.087	17874.562
7.5	15012.034	15353.660	15199.048	15146.671	115070.157	15628.957	15156.452
10.0	12261.482	12164.006	12391.920	12017.083	12302.064	12457.878	12381.336
12.5	9256.914	9239.616	9231.192	9242.269	9332.902	9300.813	9359.246
15.0	6784.536	6932.221	7015.478	6810.796	6825.690	7161.985	6824.372
17.5	5260.022	5181.763	5163.242	5219.360	5283.356	5275.332	5294.805
20.0	4161.153	4141.365	4215.746	4086.028	4148.640	4285.158	4146.429
22.5	3490.520	3455.535	3414.176	3472.961	3481.063	3477.489	3436.004
25.0	3019.389	3028.066	3067.143	3001.527	2995.200	2991.809	2915.461
27.5	2661.753	2655.609	2711.164	2657.660	2629.682	2580.438	2519.272
30.0	2270.531	2304.822	2299.744	2309.414	2226.805	2244.163	2078.900
32.5	1869.631	1770.774	1813.801	1745.169	1811.061	1718.911	1623.258
35.0	1236.716	1205.975	1134.181	1180.500	1169.378	1087.164	1013.042
37.5	602.231	682.590	593.567	614.162	506.001	615.945	392.051
40.0	315.929	216.037	247.480	203.705	262.871	191.280	201.539
42.5	80.120	115.074	77.052	93.607	55.805	95.008	41.027
45.0	55.390	40.558	47.077	35.085	42.042	31.714	34.318
47.5	37.613	36.459	35.635	31.577	31.799	29.361	29.348
50.0	33.832	33.093	32.342	30.077	29.789	26.994	28.460
52.5	31.812	30.774	29.213	29.808	28.527	24.566	27.130
55.0	31.772	28.079	26.117	27.873	28.236	23.414	25.238
57.5	29.760	25.078	23.266	25.416	26.146	24.845	22.807
60.0	26.485	23.450	20.417	22.324	22.738	23.305	19.978
62.5	22.660	22.438	17.531	19.202	20.221	18.455	16.597
65.0	18.649	17.390	15.019	17.124	18.064	15.657	12.998

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00621_13 ~ SGE8BX70L-35KND-DO101-AR8BXMWWF.IES****CANDELA TABULATION - (Cont.)**

67.5	15.076	11.507	13.624	14.527	12.206	14.180	9.126
70.0	11.609	8.930	10.657	9.739	5.988	10.139	5.424
72.5	9.056	6.661	5.402	6.075	4.534	5.557	4.874
75.0	6.699	5.319	3.164	3.732	3.631	4.180	4.079
77.5	4.718	3.844	2.317	2.665	3.515	2.886	2.965
80.0	3.192	2.309	1.177	2.426	2.229	1.967	1.628
82.5	2.441	1.081	1.016	2.196	2.022	2.064	1.287
85.0	1.872	0.907	0.759	1.348	1.910	1.047	0.853
87.5	1.246	0.971	0.710	0.660	1.031	0.819	0.647
90.0	0.637	0.953	0.802	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-00621_13 ~ SGE8BX70L-35KND-DO101-AR8BXMWWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3480.58	N.A.	61.60
0-30	4864.11	N.A.	86.10
0-40	5551.64	N.A.	98.30
0-60	5624.21	N.A.	99.60
0-80	5645.02	N.A.	100.00
0-90	5646.36	N.A.	100.00
10-90	4142.52	N.A.	73.40
20-40	2071.06	N.A.	36.70
20-50	2120.43	N.A.	37.60
40-70	88.20	N.A.	1.60
60-80	20.81	N.A.	0.40
70-80	5.18	N.A.	0.10
80-90	1.34	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	5646.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1503.85
10-20	1976.73
20-30	1383.53
30-40	687.53
40-50	49.37
50-60	23.20
60-70	15.62
70-80	5.18
80-90	1.34
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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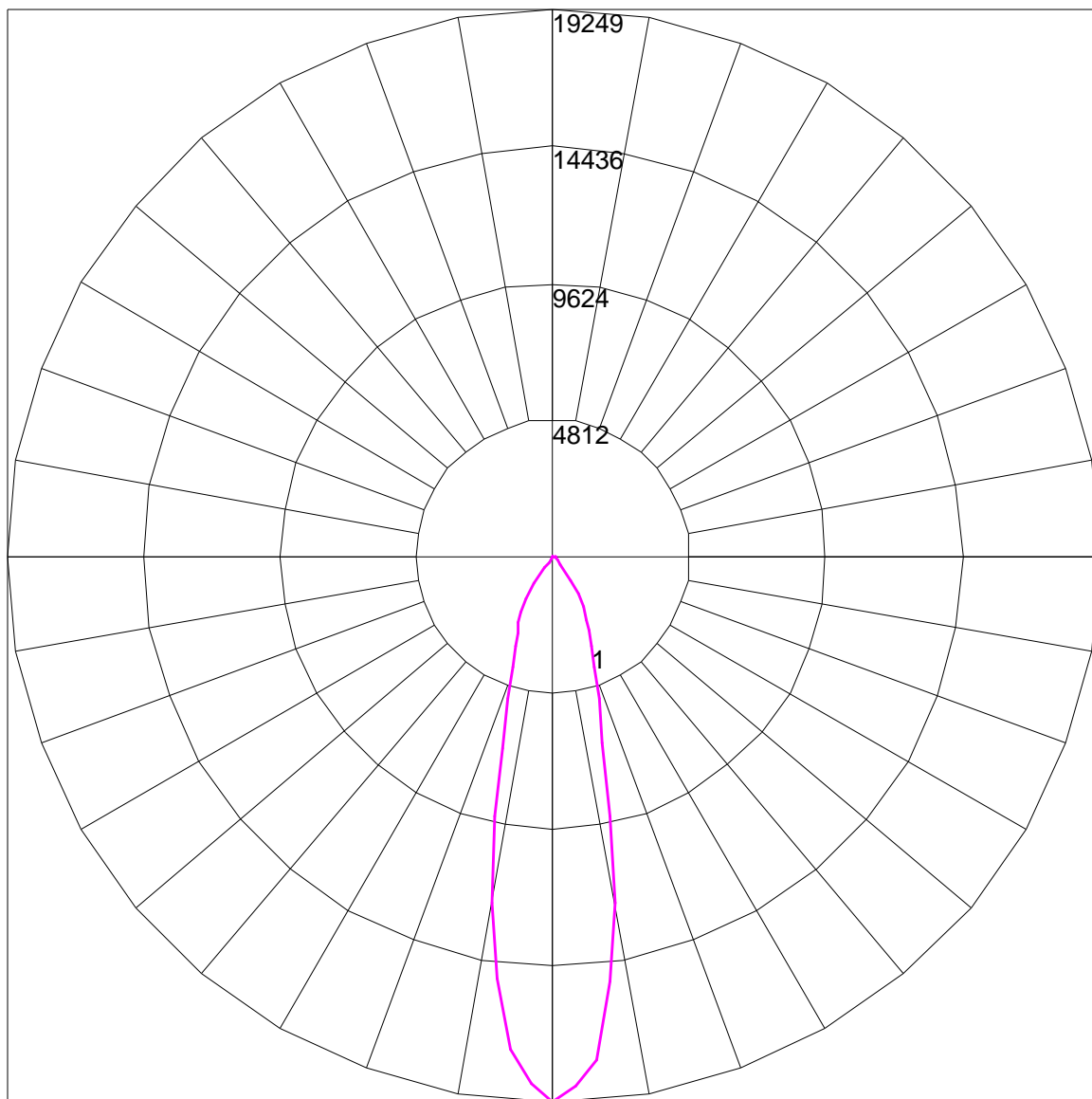
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	103	100	108	104	101	99	101	99	96	98	96	94	96	94	93	91
3	106	100	96	93	104	99	95	92	97	93	91	94	92	90	92	90	88	87
4	102	96	91	88	100	94	90	87	92	89	86	91	88	85	89	86	84	83
5	98	91	86	83	96	90	86	83	89	85	82	87	84	81	86	83	80	79
6	94	87	82	79	93	86	82	79	85	81	78	84	80	78	83	79	77	76
7	91	84	79	75	90	83	78	75	82	78	75	81	77	74	80	76	74	73
8	88	80	75	72	87	80	75	72	79	75	72	78	74	71	77	74	71	70
9	85	77	72	69	84	77	72	69	76	72	69	75	71	69	74	71	68	67
10	82	74	70	66	81	74	69	66	73	69	66	72	69	66	72	68	66	65

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00621_13 ~ SGE8BX70L-35KND-DO101-AR8BXMWWF.IES

POLAR GRAPH



Maximum Candela = 19248.547 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)