

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00625\_11 ~ SGE6BX80L-35KND-DO101-AR6BXSGWF.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00625\_11  
 [TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 6/7/2018  
 [UPDATE] 7/12/2018  
 [LUMCAT] SGE6BX-80L-35K-ND-DO101-AR6BX-SGWF  
 [LUMINAIRE] Nom. 6" Diam x 9" H, Open aperture  
 [OTHER] Semi diffuse aluminum reflector trim  
 [OTHER] Deep regressed retrofit high output LED downlight  
 [OTHER] BX Series, Medium Beam  
 [OTHER] 23.7 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

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6198
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	60
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.42
Spacing Criterion (90-270)	0.44
Spacing Criterion (Diagonal)	0.42
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\_11 ~ SGE6BX80L-35KND-DO101-AR6BXSGWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1533	1304	1131
55	287	279	281
65	254	249	243
75	361	174	202
85	500	400	625

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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	26498.131	26498.131	26498.131	26498.131	26498.131	26498.131	26498.131	26498.131	26498.131	26498.131
2.5	26056.381	26333.449	26024.150	26304.609	26389.230	25189.100	25527.430	25123.660	25457.699	25420.039
5.0	23898.721	24377.490	24291.689	24797.449	24694.000	22565.260	22867.439	22529.721	23036.170	22409.520
7.5	20765.240	21383.260	21096.270	21858.289	21999.631	219065.000	19483.811	19009.260	19385.131	18925.971
10.0	16523.420	17534.510	17099.180	18258.000	17975.930	14725.630	15564.530	14813.560	15556.700	14580.770
12.5	12711.260	13204.360	13271.630	13853.560	14055.390	11099.920	11423.500	11284.280	11570.590	10821.700
15.0	9398.076	9933.379	9537.795	10228.100	10273.220	8153.172	8588.221	8244.615	8534.334	8139.525
17.5	6890.222	7264.200	7047.192	7544.156	7355.396	5998.365	6289.411	6118.881	6361.312	5965.800
20.0	5311.708	5495.614	5249.703	5517.601	5606.296	4613.861	4814.682	4670.074	4803.964	4734.401
22.5	4054.794	4243.131	4008.053	4303.550	4191.941	3451.022	3687.670	3520.337	3802.615	3636.735
25.0	3171.963	3196.492	3078.963	3210.193	3233.896	2502.433	2685.533	2593.912	2839.920	2789.088
27.5	2276.151	2268.826	2159.211	2265.059	2298.080	1654.698	1735.688	1737.421	1912.915	1951.542
30.0	1365.121	1463.867	1244.756	1435.496	1392.815	906.624	1051.037	932.812	1156.198	1133.045
32.5	704.862	730.435	668.100	751.079	717.103	419.487	480.415	438.013	555.718	506.508
35.0	340.976	330.890	281.722	298.439	359.419	188.578	215.023	178.308	206.408	245.163
37.5	115.881	127.629	104.690	135.029	124.149	60.740	79.891	54.295	92.709	64.825
40.0	56.129	41.814	48.434	37.945	59.860	36.380	30.920	32.587	31.551	39.956
42.5	21.873	25.628	23.114	25.508	19.684	20.523	19.698	18.946	19.369	21.156
45.0	18.236	16.426	15.519	16.063	13.463	13.149	13.788	11.525	11.454	14.107
47.5	13.632	11.397	10.126	10.415	8.708	8.371	10.188	7.283	7.607	8.665
50.0	7.860	7.795	6.025	6.405	6.036	6.242	7.675	5.476	5.212	6.364
52.5	4.091	5.052	3.809	4.523	3.954	4.802	5.647	4.016	4.192	4.594
55.0	2.766	3.348	2.692	3.081	2.716	4.060	4.298	2.831	3.454	3.869
57.5	1.964	2.277	1.907	2.205	1.951	3.272	3.251	2.346	2.988	3.192
60.0	1.806	1.609	1.321	1.553	1.868	2.436	3.221	2.408	2.375	2.612
62.5	1.746	1.190	1.359	1.194	1.792	1.906	3.646	2.169	1.620	2.171
65.0	1.807	1.151	1.768	0.996	1.728	1.690	3.083	1.692	1.186	2.009
67.5	1.529	1.342	1.289	1.001	1.629	1.363	2.082	1.495	1.058	1.842
70.0	0.888	1.101	0.342	1.147	1.486	0.936	1.780	1.490	1.024	1.664
72.5	1.054	0.685	0.475	1.411	1.219	1.229	1.694	1.240	1.052	1.693
75.0	1.574	0.753	0.758	1.447	0.880	1.753	2.035	1.059	0.891	1.875
77.5	1.044	0.709	0.680	1.422	0.453	1.446	1.734	1.833	0.801	1.486
80.0	0.859	0.527	0.523	1.367	0.563	2.016	0.811	2.407	0.891	1.424
82.5	0.867	0.653	0.493	1.461	0.829	2.688	0.409	2.005	1.040	1.434
85.0	0.733	1.079	0.587	0.803	0.917	2.154	0.714	1.147	0.614	0.829
87.5	0.926	1.203	1.209	0.821	1.014	0.892	0.848	1.041	1.187	0.795
90.0	0.789	0.458	0.475	0.941	0.602	0.342	1.043	0.733	0.527	0.799
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	26498.131	26498.131	26498.131	26498.131	26498.131	26498.131	26498.131
2.5	25393.689	25134.779	25181.711	26292.529	26314.119	26148.520	26056.381
5.0	23117.529	22177.699	22318.490	24576.430	23916.480	24518.279	23898.721
7.5	19022.580	18431.131	18211.961	21212.160	20964.199	21086.750	20765.240
10.0	15025.190	14010.190	14288.130	17415.760	16608.760	17331.020	16523.420
12.5	11210.510	10514.450	10504.990	13157.160	12615.230	13119.470	12711.260
15.0	8085.423	7803.989	7794.146	9775.729	9530.203	9678.085	9398.076
17.5	6263.255	5876.342	5915.614	7339.938	6898.859	7328.386	6890.222
20.0	4760.404	4618.418	4594.004	5534.817	5437.915	5489.151	5311.708
22.5	3866.175	3592.681	3708.158	4415.010	4158.124	4379.412	4054.794
25.0	2959.109	2767.172	2804.857	3419.870	3342.018	3356.010	3171.963
27.5	2027.361	1931.075	1887.788	2561.278	2497.580	2457.003	2276.151
30.0	1220.073	1085.775	1146.269	1735.884	1579.906	1621.915	1365.121
32.5	654.208	533.319	544.331	947.141	806.859	879.680	704.862
35.0	238.827	237.445	207.517	418.193	411.349	359.165	340.976
37.5	117.936	77.699	83.199	178.337	110.275	163.381	115.881
40.0	33.287	38.176	23.001	43.144	58.173	41.109	56.129
42.5	20.191	16.621	14.607	25.342	18.629	27.390	21.873
45.0	10.370	11.062	9.580	13.137	12.522	16.311	18.236
47.5	7.072	6.748	7.296	7.261	7.521	9.162	13.632
50.0	4.418	3.552	5.042	3.559	5.497	4.432	7.860
52.5	3.056	2.175	2.815	2.336	3.805	3.333	4.091
55.0	2.235	2.444	1.735	1.658	3.014	2.537	2.766
57.5	2.506	2.427	1.606	1.604	2.265	2.202	1.964
60.0	2.367	2.150	1.300	1.713	1.628	2.180	1.806
62.5	1.386	2.046	0.846	2.012	1.327	2.635	1.746
65.0	0.756	2.101	0.915	1.848	1.959	2.529	1.807

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00625\_11 ~ SGE6BX80L-35KND-DO101-AR6BXSGWF.IES****CANDELA TABULATION - (Cont.)**

67.5	0.817	1.737	1.412	1.162	2.148	1.591	1.529
70.0	0.949	1.037	1.472	0.905	1.359	1.277	0.888
72.5	1.171	0.821	1.287	0.978	1.286	1.575	1.054
75.0	1.003	0.810	1.061	0.904	1.896	1.354	1.574
77.5	0.739	1.049	0.800	1.068	1.458	1.071	1.044
80.0	0.630	0.926	0.497	1.807	1.480	0.996	0.859
82.5	0.672	0.916	0.558	0.668	1.618	1.030	0.867
85.0	0.406	1.247	0.678	0.331	0.765	1.352	0.733
87.5	0.601	1.313	0.653	1.261	1.184	1.224	0.926
90.0	0.808	0.725	0.567	0.412	1.183	0.590	0.789
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\_11 ~ SGE6BX80L-35KND-DO101-AR6BXSGWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	4563.79	N.A.	73.60
0-30	5926.58	N.A.	95.60
0-40	6178.21	N.A.	99.70
0-60	6193.71	N.A.	99.90
0-80	6196.58	N.A.	100.00
0-90	6197.64	N.A.	100.00
10-90	4193.84	N.A.	67.70
20-40	1614.42	N.A.	26.00
20-50	1627.02	N.A.	26.30
40-70	17.13	N.A.	0.30
60-80	2.87	N.A.	0.00
70-80	1.24	N.A.	0.00
80-90	1.06	N.A.	0.00
90-110	0.09	N.A.	0.00
90-120	0.09	N.A.	0.00
90-130	0.09	N.A.	0.00
90-150	0.09	N.A.	0.00
90-180	0.09	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	6197.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	2003.8
10-20	2560.00
20-30	1362.79
30-40	251.63
40-50	12.60
50-60	2.90
60-70	1.63
70-80	1.24
80-90	1.06
90-100	0.09
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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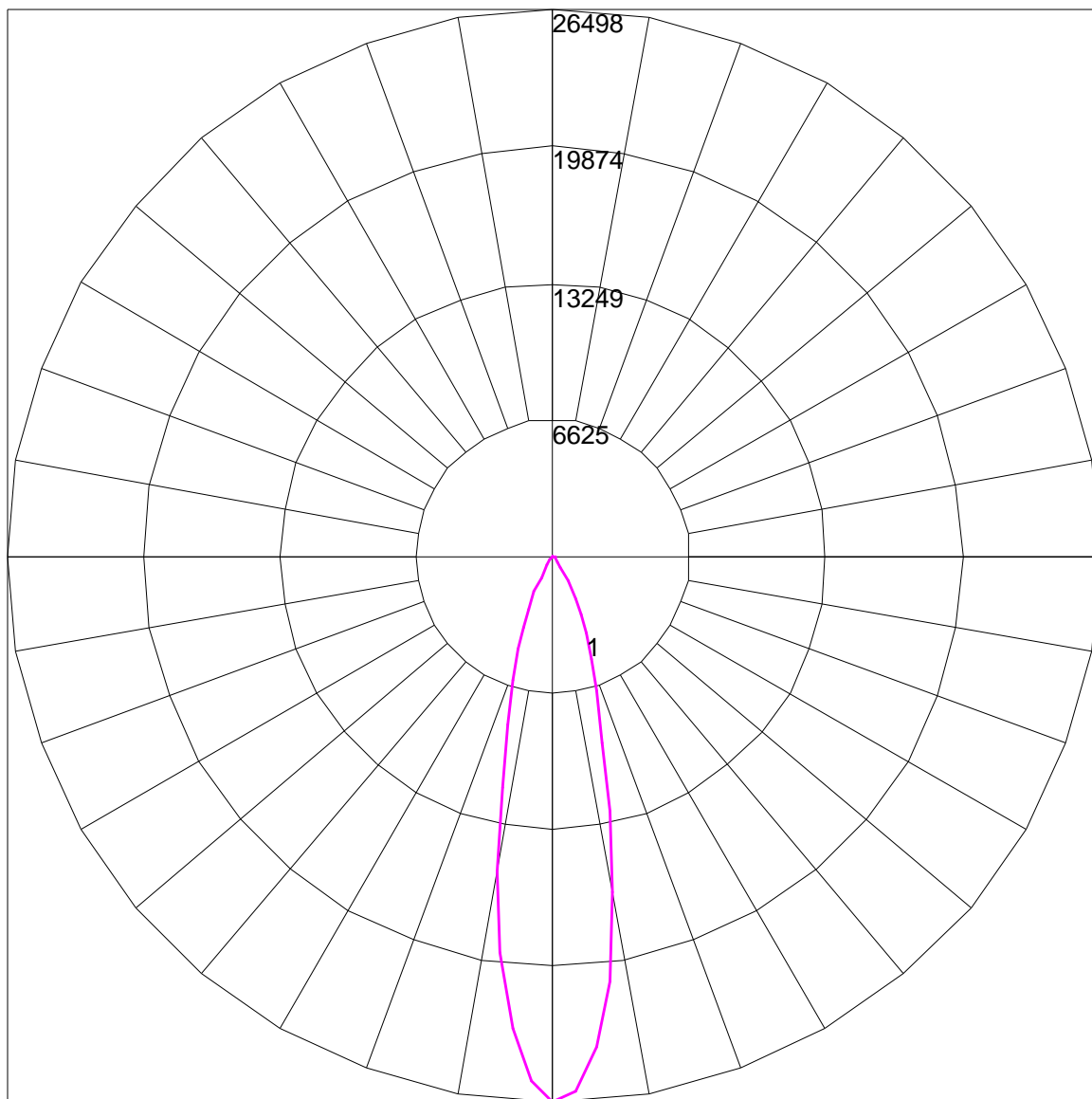
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96
2	111	107	104	102	109	106	103	101	103	100	98	100	98	96	97	96	94	93
3	107	103	99	96	106	101	98	95	99	96	94	96	94	92	94	93	91	90
4	104	98	94	91	102	97	94	91	95	92	90	93	91	89	92	90	88	86
5	101	95	90	87	99	94	90	87	92	89	86	91	88	85	89	87	85	84
6	98	91	87	84	96	90	86	83	89	86	83	88	85	82	87	84	82	81
7	95	88	84	81	93	87	83	80	86	83	80	85	82	80	84	81	79	78
8	92	85	81	78	91	85	80	78	84	80	77	83	79	77	82	79	77	76
9	89	82	78	75	88	82	78	75	81	77	75	80	77	75	80	77	74	74
10	87	80	76	73	86	79	76	73	79	75	73	78	75	72	78	75	72	71

IES INDOOR REPORT  
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POLAR GRAPH



Maximum Candela = 26498.131 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)