

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_13 ~ SGE6BX70L-35KWD-DO101-AR6BXSGWF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00625_13_M-70L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 6/7/2018

[UPDATE] 7/20/2018

[LUMCAT] SGE6BX-70L35K-WD-DO101-AR6BX-SGWF

[LUMINAIRE] Nom. 6" Diam x 9" H, Open aperture

[OTHER] Matte White reflector trim

[OTHER] Deep regressed retrofit high output LED downlight

[OTHER] BX Series, Medium Beam

[OTHER] 40.1 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	5349
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	51
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.62
Spacing Criterion (90-270)	0.62
Spacing Criterion (Diagonal)	0.70
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_13 ~ SGE6BX70L-35KWD-DO101-AR6BXSGWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13464	14946	15904
55	434	444	441
65	149	188	176
75	186	139	180
85	648	310	308

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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	10706.982	10706.982	10706.982	10706.982	10706.982	10706.982	10706.982	10706.982	10706.982	10706.982
2.5	10378.627	10394.413	10252.475	10408.772	10330.632	9755.960	9973.118	9868.703	10194.397	10157.919
5.0	9809.597	9658.155	9568.135	9558.475	9691.644	8851.145	8951.801	9041.933	9266.729	9463.479
7.5	8756.994	8763.630	8502.915	8657.047	8612.890	7950.066	8080.232	8099.531	8389.751	8474.082
10.0	7831.129	7796.240	7578.001	7721.683	7651.504	7127.992	7275.402	7264.125	7546.909	7579.583
12.5	7127.929	7080.582	6936.232	7009.321	7027.380	6586.321	6665.887	6682.604	6866.685	6930.252
15.0	6486.431	6486.781	6344.802	6454.054	6436.870	6060.986	6149.428	6128.174	6301.023	6312.319
17.5	5958.616	5964.827	5861.857	5947.879	5950.638	5597.507	5667.714	5641.518	5781.464	5781.615
20.0	5438.859	5479.981	5376.069	5477.872	5464.093	5107.598	5203.395	5133.396	5296.360	5243.770
22.5	4934.677	4940.460	4883.839	4949.293	4976.524	4508.249	4593.492	4568.589	4702.178	4684.927
25.0	4304.782	4371.309	4273.183	4375.597	4404.015	3842.520	3905.889	3899.492	4022.775	4024.570
27.5	3415.566	3552.956	3379.697	3592.003	3527.634	2881.645	3052.653	2934.007	3176.188	3041.642
30.0	2548.084	2590.822	2521.855	2637.014	2668.778	1985.512	2106.693	2051.272	2193.083	2125.575
32.5	1727.736	1832.772	1755.338	1871.953	1876.821	1407.231	1451.351	1417.613	1469.480	1435.295
35.0	1057.533	1198.103	1107.999	1268.954	1174.079	878.437	969.112	869.712	970.432	838.440
37.5	735.672	788.126	783.153	836.548	835.796	612.741	638.674	601.003	616.070	577.581
40.0	460.051	520.411	497.543	558.370	526.839	366.632	402.945	361.975	392.516	343.407
42.5	297.474	329.766	326.297	350.670	349.455	233.819	242.406	225.723	229.515	213.888
45.0	160.197	190.946	177.841	209.532	189.236	111.889	130.982	107.875	124.508	100.306
47.5	88.172	100.856	99.788	109.920	112.018	60.891	63.352	57.956	56.299	53.686
50.0	31.190	45.052	35.867	51.850	43.604	15.299	26.090	16.611	24.902	14.277
52.5	15.928	16.143	18.309	17.380	22.489	8.572	8.162	9.821	7.385	8.189
55.0	4.189	7.308	4.282	7.574	4.258	2.530	4.259	4.058	4.573	2.990
57.5	2.793	2.793	2.829	2.180	2.887	2.168	2.350	2.739	2.690	2.227
60.0	1.654	1.649	1.649	1.602	1.675	1.786	1.979	1.585	1.835	1.541
62.5	1.329	1.236	1.509	1.128	1.470	1.221	1.501	1.222	1.259	1.274
65.0	1.058	1.428	1.338	0.775	1.255	0.762	0.937	0.951	1.005	1.036
67.5	0.970	1.289	1.053	0.732	0.966	1.346	0.822	1.137	0.867	0.956
70.0	0.874	0.886	0.799	1.029	0.767	1.771	1.051	1.228	0.858	0.882
72.5	0.764	0.696	0.626	1.073	0.890	1.479	1.089	1.037	0.862	0.834
75.0	0.810	0.607	0.607	0.962	0.782	1.146	1.038	0.915	0.874	0.777
77.5	0.956	0.842	0.713	0.785	0.432	0.764	0.862	0.854	0.625	0.713
80.0	0.806	0.810	0.594	0.714	0.569	0.867	0.847	1.020	0.683	0.825
82.5	0.822	0.611	0.461	0.732	0.497	0.861	1.039	0.974	0.937	0.806
85.0	0.951	0.665	0.454	0.575	0.452	0.740	1.249	0.832	0.904	0.711
87.5	0.917	1.060	0.535	0.327	0.212	0.768	0.951	0.460	1.007	0.637
90.0	0.673	0.153	0.440	0.177	0.551	0.643	0.346	0.615	0.341	0.308
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	10706.982	10706.982	10706.982	10706.982	10706.982	10706.982	10706.982
2.5	10411.917	10330.667	10380.580	10619.640	10537.707	10528.575	10378.627
5.0	9634.620	9677.872	9595.688	10269.444	10156.147	9991.892	9809.597
7.5	8769.747	8653.522	8706.278	9398.324	9118.026	9147.237	8756.994
10.0	7853.974	7749.654	7773.275	8347.952	8156.221	8146.614	7831.129
12.5	7114.011	7057.483	7044.494	7547.546	7398.597	7360.600	7127.929
15.0	6482.694	6407.660	6405.450	6839.791	6687.071	6688.673	6486.431
17.5	5913.129	5835.865	5832.061	6230.606	6105.932	6103.253	5958.616
20.0	5383.518	5265.658	5289.520	5660.005	5539.576	5566.071	5438.859
22.5	4773.491	4698.567	4653.417	5105.105	5018.335	5015.201	4934.677
25.0	4109.010	3994.789	3971.111	4556.797	4412.802	4456.208	4304.782
27.5	3238.755	3009.055	3073.424	3721.907	3534.225	3645.141	3415.566
30.0	2220.620	2105.378	2062.314	2760.287	2659.472	2677.403	2548.084
32.5	1477.637	1382.556	1372.514	1938.459	1797.898	1876.007	1727.736
35.0	941.424	800.668	860.230	1181.673	1050.019	1184.440	1057.533
37.5	583.600	545.752	543.744	751.956	728.341	748.466	735.672
40.0	367.911	328.008	340.667	484.737	440.438	489.076	460.051
42.5	215.223	201.144	203.268	305.282	287.910	305.733	297.474
45.0	114.995	96.231	106.323	171.613	151.600	178.137	160.197
47.5	52.906	48.929	50.728	90.519	86.604	93.838	88.172
50.0	24.000	12.634	21.801	38.642	30.343	42.727	31.190
52.5	7.878	6.867	7.727	14.512	15.442	15.323	15.928
55.0	3.540	2.416	3.823	6.547	2.894	6.914	4.189
57.5	1.337	1.897	1.843	2.988	2.379	2.738	2.793
60.0	1.191	1.426	1.241	2.157	1.915	2.157	1.654
62.5	1.083	1.108	0.861	1.534	1.732	1.691	1.329
65.0	1.016	0.829	0.650	1.044	1.511	1.326	1.058

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_13 ~ SGE6BX70L-35KWD-DO101-AR6BXSGWF.IES****CANDELA TABULATION - (Cont.)**

67.5	0.925	0.679	0.702	0.915	1.070	1.127	0.970
70.0	0.810	0.550	0.948	1.013	0.749	1.070	0.874
72.5	0.837	0.463	0.728	0.799	0.841	0.761	0.764
75.0	0.942	0.534	0.346	0.508	0.770	0.339	0.810
77.5	0.691	0.706	0.481	0.586	0.540	0.597	0.956
80.0	0.544	0.595	0.526	0.600	0.708	0.810	0.806
82.5	0.543	0.493	0.523	0.632	0.831	0.971	0.822
85.0	0.648	0.546	0.745	0.674	0.682	0.916	0.951
87.5	0.704	0.352	0.931	0.613	0.288	0.611	0.917
90.0	0.299	0.568	0.546	0.252	0.608	0.206	0.673
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_13 ~ SGE6BX70L-35KWD-DO101-AR6BXSGWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2653.14	N.A.	49.60
0-30	4482.85	N.A.	83.80
0-40	5202.97	N.A.	97.30
0-60	5346.14	N.A.	99.90
0-80	5348.13	N.A.	100.00
0-90	5348.86	N.A.	100.00
10-90	4495.69	N.A.	84.00
20-40	2549.83	N.A.	47.70
20-50	2685.34	N.A.	50.20
40-70	144.33	N.A.	2.70
60-80	1.99	N.A.	0.00
70-80	0.83	N.A.	0.00
80-90	0.73	N.A.	0.00
90-110	0.06	N.A.	0.00
90-120	0.06	N.A.	0.00
90-130	0.06	N.A.	0.00
90-150	0.06	N.A.	0.00
90-180	0.06	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5348.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	853.17
10-20	1799.97
20-30	1829.71
30-40	720.12
40-50	135.51
50-60	7.66
60-70	1.16
70-80	0.83
80-90	0.73
90-100	0.06
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

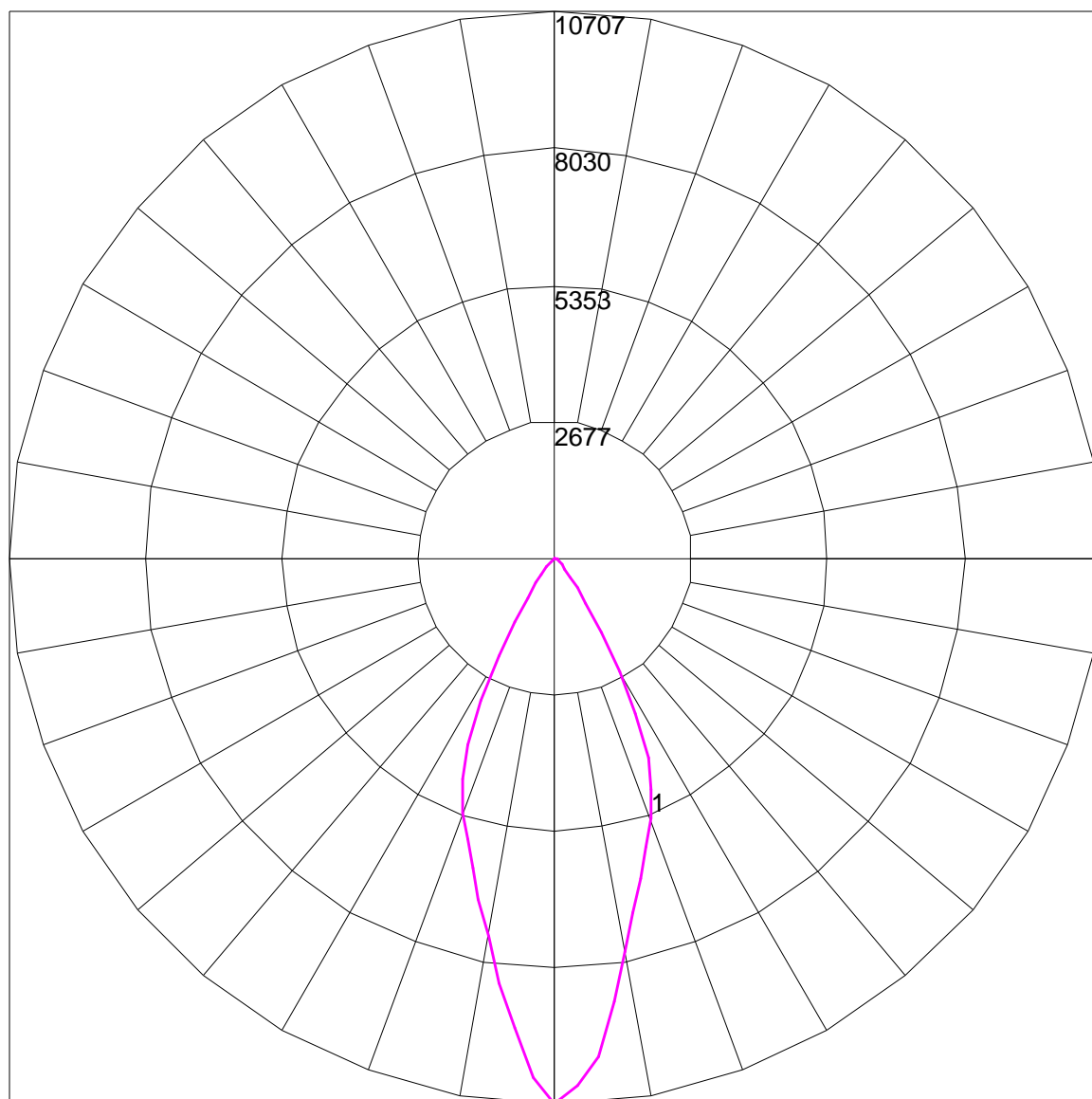
Effective Floor Cavity Reflectance 0.20

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	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89
3	104	99	94	91	103	97	93	90	95	91	89	92	90	87	90	88	86	84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80
5	96	88	83	79	94	87	82	79	85	81	78	84	80	77	82	79	77	75
6	91	84	78	74	90	83	78	74	81	77	74	80	76	73	79	75	73	71
7	88	79	74	70	86	79	74	70	77	73	70	76	72	69	75	72	69	68
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	66	64
9	81	72	67	63	80	71	66	63	71	66	63	70	66	63	69	65	62	61
10	77	69	63	60	76	68	63	60	67	63	60	67	63	60	66	62	59	58

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00625_13 ~ SGE6BX70L-35KWD-DO101-AR6BXSGWF.IES

POLAR GRAPH



Maximum Candela = 10706.982 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)