

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_8 ~ SGE6BX70L-35KMD-DO101-AR6BXMWWF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00625_8_M-70L

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

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 6/7/2018

[UPDATE] 7/20/2018

[LUMCAT] SGE6BX-70L-35K-MD-DO101-AR6BX-MWWF

[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] 36.4 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	5385
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	51
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.60
Spacing Criterion (90-270)	0.60
Spacing Criterion (Diagonal)	0.62
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_8 ~ SGE6BX70L-35KMD-DO101-AR6BXMWWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10670	10751	10819
55	12171	11696	12016
65	12127	11828	12205
75	8917	7553	8951
85	2667	1992	2073

IES INDOOR REPORT

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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	13124.247	13124.247	13124.247	13124.247	13124.247	13124.247	13124.247	13124.247	13124.247	13124.247
2.5	13049.182	12916.973	13099.744	12894.846	12967.370	12859.595	12947.023	12808.066	12935.964	12855.664
5.0	12371.305	12395.687	12314.411	12354.336	12239.830	12204.234	12145.559	12270.347	12220.762	12338.646
7.5	11510.433	11469.868	11502.277	11419.065	11397.016	11302.313	11326.410	11350.913	11415.047	11439.127
10.0	10431.634	10400.703	10372.415	10360.993	10322.917	10272.520	10273.893	10369.011	10381.945	10456.724
12.5	9301.867	9250.615	9240.618	9209.411	9208.892	9179.318	9216.539	9261.484	9305.263	9324.876
15.0	8112.510	8076.522	8052.751	8033.292	8024.494	8020.416	8047.509	8113.742	8133.390	8148.528
17.5	6912.083	6889.632	6865.792	6835.407	6830.801	6833.079	6874.506	6894.967	6933.630	6901.446
20.0	5741.983	5699.624	5692.363	5632.904	5622.872	5640.926	5652.103	5687.645	5681.372	5677.120
22.5	4576.305	4563.312	4525.026	4523.814	4450.499	4446.999	4432.889	4497.912	4457.024	4484.339
25.0	3422.255	3437.725	3415.305	3430.651	3325.682	3275.481	3240.200	3308.683	3278.235	3291.123
27.5	2269.416	2324.510	2324.272	2314.073	2246.342	2110.896	2086.672	2120.130	2166.644	2097.383
30.0	1357.487	1213.202	1359.942	1194.518	1221.003	1243.688	1180.492	1183.063	1152.065	1171.578
32.5	461.335	676.739	515.796	672.560	562.699	454.068	402.975	545.279	486.619	534.513
35.0	289.933	204.611	312.641	202.462	286.317	240.351	255.457	196.758	261.695	199.636
37.5	142.692	155.408	146.911	158.863	149.319	147.962	136.682	149.888	138.834	150.230
40.0	136.287	138.674	139.906	137.948	139.463	133.064	131.109	125.723	128.762	127.284
42.5	129.996	134.369	133.266	133.025	132.804	130.897	126.216	122.311	123.555	126.557
45.0	126.957	130.560	127.927	128.415	128.735	128.053	123.583	119.674	123.128	123.827
47.5	124.052	129.171	123.238	125.552	125.970	125.125	120.864	117.667	120.452	119.624
50.0	123.120	127.664	120.466	122.632	124.130	120.126	117.905	115.981	115.838	114.707
52.5	121.857	120.723	117.242	118.468	120.579	114.949	114.299	114.522	110.989	109.333
55.0	117.472	113.892	112.888	114.176	115.972	109.632	109.135	110.047	105.962	105.051
57.5	112.565	108.874	108.279	108.354	109.661	104.308	104.267	103.675	100.940	101.388
60.0	104.122	103.707	103.120	102.644	102.424	100.260	100.003	96.674	95.924	96.729
62.5	95.544	96.936	95.717	97.824	94.719	96.133	94.255	89.329	89.367	91.583
65.0	86.242	89.161	84.115	91.521	86.797	85.939	85.872	80.856	81.914	83.344
67.5	75.869	75.471	72.891	77.979	74.018	75.472	75.691	71.854	72.358	73.811
70.0	62.327	62.165	62.156	63.721	59.734	62.402	63.091	60.826	61.842	61.985
72.5	49.988	49.642	48.042	48.203	50.317	49.334	49.213	49.147	48.895	49.553
75.0	38.835	37.430	32.895	34.848	38.985	36.268	34.805	35.566	35.861	37.006
77.5	23.823	25.949	22.656	24.562	25.029	25.823	26.972	24.430	23.793	26.961
80.0	15.066	16.233	14.273	19.236	15.178	16.863	16.927	15.971	16.401	19.300
82.5	9.835	6.717	7.710	9.139	10.876	9.185	7.469	7.081	10.161	8.002
85.0	3.911	2.778	2.922	4.669	3.040	3.452	2.659	3.046	4.521	4.719
87.5	1.970	1.477	1.577	0.889	1.502	1.383	1.284	1.571	1.562	1.725
90.0	0.000	0.000	0.000	0.000	0.000	0.812	1.473	1.021	0.557	0.996
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	13124.247	13124.247	13124.247	13124.247	13124.247	13124.247	13124.247
2.5	13034.114	12879.605	12997.532	12967.241	13104.954	12919.833	13049.182
5.0	12268.921	12375.893	12344.893	12321.703	12350.388	12425.383	12371.305
7.5	11476.504	11455.690	11491.364	11497.533	11565.988	11510.035	11510.433
10.0	10423.823	10456.750	10426.502	10433.267	10452.033	10463.999	10431.634
12.5	9348.688	9299.690	9295.819	9297.055	9324.798	9294.964	9301.867
15.0	8120.058	8104.903	8077.542	8076.219	8096.253	8094.404	8112.510
17.5	6887.457	6844.578	6836.738	6843.794	6870.834	6891.712	6912.083
20.0	5633.517	5605.118	5616.378	5599.250	5663.308	5688.577	5741.983
22.5	4389.836	4397.182	4400.359	4418.699	4472.306	4545.052	4576.305
25.0	3189.917	3204.760	3217.409	3296.802	3357.531	3411.373	3422.255
27.5	2052.083	2033.105	2039.946	2212.166	2272.223	2297.833	2269.416
30.0	1135.370	1121.627	1194.914	1157.445	1297.053	1186.754	1357.487
32.5	409.552	514.937	390.717	549.031	505.488	662.729	461.335
35.0	249.986	188.291	235.928	258.496	293.993	189.406	289.933
37.5	134.439	149.152	137.646	141.164	139.215	151.584	142.692
40.0	129.307	129.424	129.181	131.374	135.222	135.046	136.287
42.5	125.304	127.414	125.160	126.719	131.724	132.467	129.996
45.0	123.760	124.776	124.051	124.830	129.346	130.059	126.957
47.5	120.591	121.636	122.922	122.364	126.060	126.220	124.052
50.0	114.369	116.882	117.650	119.625	120.976	122.407	123.120
52.5	109.284	110.999	112.386	116.065	116.675	119.083	121.857
55.0	106.053	106.369	107.265	112.171	113.714	115.467	117.472
57.5	102.018	102.511	102.241	106.842	109.003	108.539	112.565
60.0	96.819	98.391	98.316	101.023	101.684	101.975	104.122
62.5	90.579	94.128	93.878	93.461	94.087	98.331	95.544
65.0	83.026	85.882	85.296	85.392	86.122	93.093	86.242

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_8 ~ SGE6BX70L-35KMD-DO101-AR6BXMWWF.IES****CANDELA TABULATION - (Cont.)**

67.5	74.952	75.764	75.983	75.976	76.202	79.905	75.869
70.0	66.362	64.648	63.215	65.992	64.381	65.857	62.327
72.5	52.339	53.215	50.958	48.872	51.252	50.154	49.988
75.0	36.298	39.199	39.581	34.894	38.363	37.771	38.835
77.5	26.848	26.517	28.744	25.032	30.129	26.990	23.823
80.0	17.237	15.860	18.334	15.815	20.362	16.775	15.066
82.5	9.807	10.901	8.826	8.110	10.332	10.454	9.835
85.0	6.144	5.425	4.132	3.574	4.272	3.975	3.911
87.5	1.969	2.614	1.715	1.482	1.829	1.339	1.970
90.0	1.119	0.967	0.813	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-00625_8 ~ SGE6BX70L-35KMD-DO101-AR6BXMWWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3331.24	N.A.	61.90
0-30	4822.38	N.A.	89.50
0-40	5058.96	N.A.	93.90
0-60	5255.52	N.A.	97.60
0-80	5379.1	N.A.	99.90
0-90	5385.43	N.A.	100.00
10-90	4271.16	N.A.	79.30
20-40	1727.71	N.A.	32.10
20-50	1825.26	N.A.	33.90
40-70	279.95	N.A.	5.20
60-80	123.58	N.A.	2.30
70-80	40.19	N.A.	0.70
80-90	6.33	N.A.	0.10
90-110	0.07	N.A.	0.00
90-120	0.07	N.A.	0.00
90-130	0.07	N.A.	0.00
90-150	0.07	N.A.	0.00
90-180	0.07	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5385.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1114.27
10-20	2216.98
20-30	1491.14
30-40	236.58
40-50	97.55
50-60	99.02
60-70	83.39
70-80	40.19
80-90	6.33
90-100	0.07
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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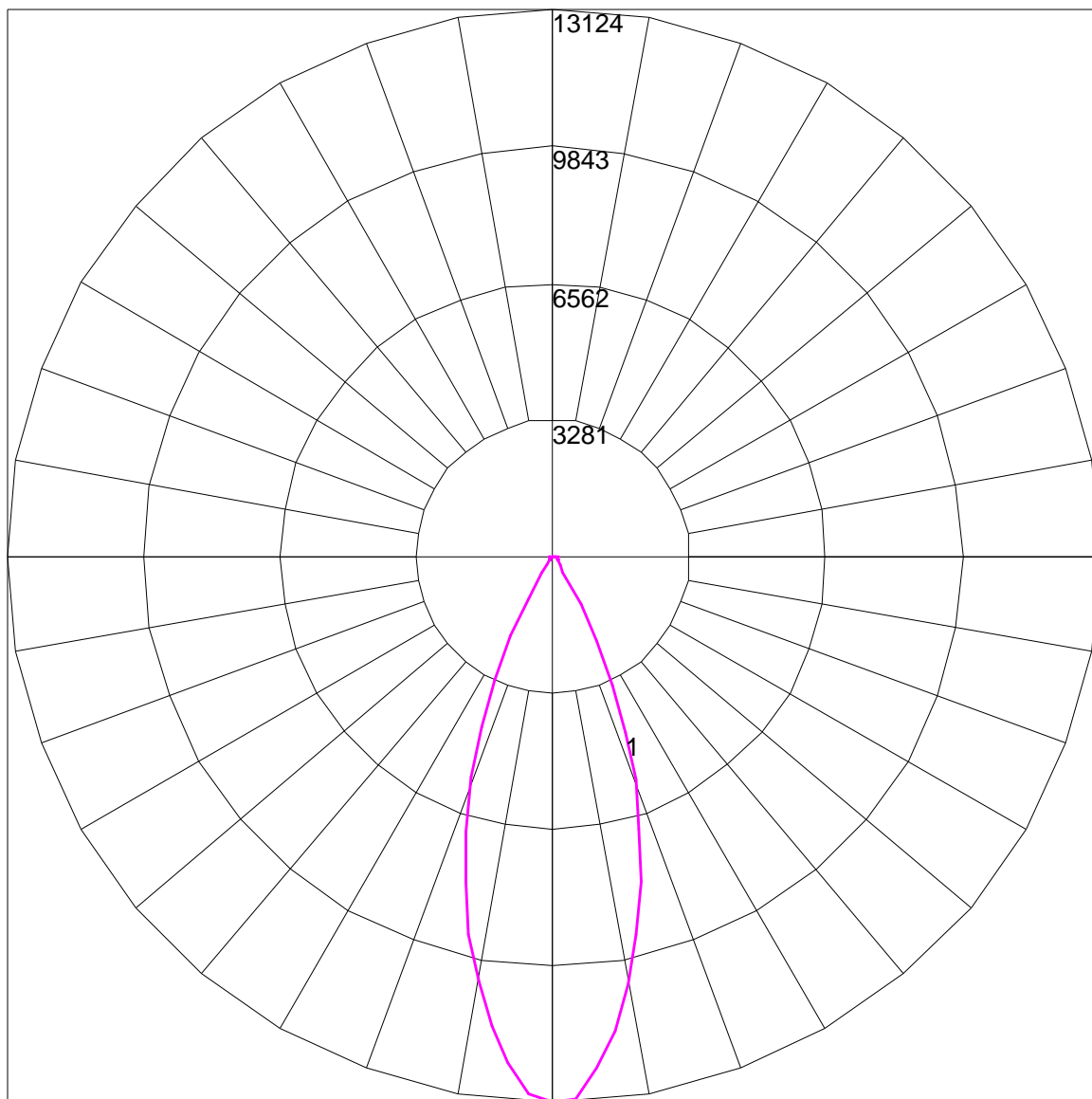
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	90
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	88	86	85
4	101	94	89	86	99	93	89	85	91	87	84	89	86	83	87	84	82	81
5	97	90	85	81	95	89	84	80	87	83	80	85	82	79	84	81	78	77
6	93	85	80	77	92	85	80	76	83	79	76	82	78	75	81	78	75	74
7	90	82	77	73	88	81	76	73	80	76	73	79	75	72	78	74	72	71
8	86	78	73	70	85	78	73	70	77	73	69	76	72	69	75	72	69	68
9	83	75	70	67	82	75	70	67	74	70	67	73	69	66	72	69	66	65
10	80	72	68	64	80	72	67	64	71	67	64	71	67	64	70	66	64	63

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00625_8 ~ SGE6BX70L-35KMD-DO101-AR6BXMWWF.IES

POLAR GRAPH



Maximum Candela = 13124.247 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)