

IES INDOOR REPORT**PHOTOMETRIC FILENAME : ALX16LX-130L35KEX-AL16-CFG.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TESTLAB] Photopia 2018.1.0 see: www.ltioptics.com/ies

[ISSUE DATE]

[TEST DATE] 7/27/2018

[UPDATE] 8/3/2018

[TEST] SP-00467_19_M-130L

[MANUFAC] Spectrum Lighting

[LUMCAT] ALX16LX-130L-35K-EX-AL16-CFG-xx

[LUMINAIRE] 16" Diam. Alum. Reflector LED Tech Pendant w/ Center Frosted Glass Disc

[OTHER] 22" Diam. Sodalime Glass disc, w/ 16" Diam. Frosted Center Pattern

[OTHER] Matte white, inside reflector finish

[OTHER] 75.5 Deg. Beam Angle

[OTHER] 97.8% Downlight, 2.2% Uplight

[LAMP] N/A

[LAMPCAT] N/A

[OTHER] Total Luminaire Watts is approximate

[OTHER] CCT Output Multipliers: 40K x 1.03, 30K x 0.979, 27K x 0.959

[OTHER] Adapted from Intertek LX-AL16 test luminaire ref. CRT1709151315-001-006

[OTHER] This report updated by Spectrum Lighting

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8725
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	103.89
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.06
Spacing Criterion (90-270)	1.06
Spacing Criterion (Diagonal)	1.10
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.33 ft (Diameter)
Luminous Width (90-270)	1.33 ft (Diameter)
Luminous Height	0.92 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9869	9945	9935
55	5937	5854	5846
65	3434	3471	3551
75	1865	1862	1905
85	841	829	855

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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	5061.758	5061.758	5061.758	5061.758	5061.758	5061.758	5061.758	5061.758	5061.758	5061.758
2.5	5065.798	5059.028	5008.702	5024.499	5032.347	5024.499	5008.702	5059.028	5065.798	5059.028
5.0	5069.829	5056.288	4955.645	4987.240	5002.925	4987.240	4955.645	5056.288	5069.829	5056.288
7.5	5004.727	4963.288	4923.512	4953.268	4952.757	4953.268	4923.512	4963.288	5004.727	4963.288
10.0	4939.625	4870.288	4891.370	4919.296	4902.589	4919.296	4891.370	4870.288	4939.625	4870.288
12.5	4797.153	4747.022	4758.584	4783.018	4749.678	4783.018	4758.584	4747.022	4797.153	4747.022
15.0	4654.681	4623.756	4625.790	4646.732	4596.758	4646.732	4625.790	4623.756	4654.681	4623.756
17.5	4488.416	4468.403	4466.276	4483.086	4436.390	4483.086	4466.276	4468.403	4488.416	4468.403
20.0	4322.151	4313.050	4306.753	4319.439	4276.013	4319.439	4306.753	4313.050	4322.151	4313.050
22.5	4142.559	4101.065	4114.132	4104.436	4106.488	4104.436	4114.132	4101.065	4142.559	4101.065
25.0	3962.967	3889.070	3921.510	3889.423	3936.954	3889.423	3921.510	3889.070	3962.967	3889.070
27.5	3689.846	3664.019	3682.537	3662.756	3689.186	3662.756	3682.537	3664.019	3689.846	3664.019
30.0	3416.724	3438.957	3443.554	3436.088	3441.409	3436.088	3443.554	3438.957	3416.724	3438.957
32.5	3162.288	3155.035	3154.441	3160.431	3149.352	3160.431	3154.441	3155.035	3162.288	3155.035
35.0	2907.852	2871.104	2865.327	2884.774	2857.285	2884.774	2865.327	2871.104	2907.852	2871.104
37.5	2592.652	2553.953	2571.162	2572.545	2569.137	2572.545	2571.162	2553.953	2592.652	2553.953
40.0	2277.442	2236.802	2276.996	2260.307	2280.980	2260.307	2276.996	2236.802	2277.442	2236.802
42.5	1986.471	1960.318	1992.795	1977.360	1993.956	1977.360	1992.795	1960.318	1986.471	1960.318
45.0	1695.500	1683.826	1708.585	1694.404	1706.923	1694.404	1708.585	1683.826	1695.500	1683.826
47.5	1490.211	1486.486	1496.229	1489.133	1500.603	1489.133	1496.229	1486.486	1490.211	1486.486
50.0	1284.921	1289.147	1283.872	1283.863	1294.283	1283.863	1283.872	1289.147	1284.921	1289.147
52.5	1139.078	1137.862	1131.639	1139.812	1136.162	1139.812	1131.639	1137.862	1139.078	1137.862
55.0	993.226	986.577	979.407	995.761	978.033	995.761	979.407	986.577	993.226	986.577
57.5	868.297	869.328	860.877	876.033	863.412	876.033	860.877	869.328	868.297	869.328
60.0	743.369	752.080	742.356	756.315	748.792	756.315	742.356	752.080	743.369	752.080
62.5	642.484	651.808	644.880	654.000	654.408	654.000	644.880	651.808	642.484	651.808
65.0	541.590	551.536	547.394	551.685	560.015	551.685	547.394	551.536	541.590	551.536
67.5	464.545	474.287	473.386	473.331	481.132	473.331	473.386	474.287	464.545	474.287
70.0	387.500	397.029	399.369	394.976	402.239	394.976	399.369	397.029	387.500	397.029
72.5	327.441	334.137	333.153	332.558	337.647	332.558	333.153	334.137	327.441	334.137
75.0	267.373	271.245	266.927	270.140	273.047	270.140	266.927	271.245	267.373	271.245
77.5	223.074	223.167	222.136	223.965	227.931	223.965	222.136	223.167	223.074	223.167
80.0	178.765	175.079	177.345	177.781	182.805	177.781	177.345	175.079	178.765	175.079
82.5	141.794	138.822	140.299	140.132	144.664	140.132	140.299	138.822	141.794	138.822
85.0	104.813	102.556	103.253	102.482	106.522	102.482	103.253	102.556	104.813	102.556
87.5	61.164	60.876	60.830	59.678	62.455	59.678	60.830	60.876	61.164	60.876
90.0	17.515	19.187	18.407	16.874	18.388	16.874	18.407	19.187	17.515	19.187
92.5	27.118	27.796	26.886	26.812	27.434	26.812	26.886	27.796	27.118	27.796
95.0	36.721	36.396	35.365	36.739	36.479	36.739	35.365	36.396	36.721	36.396
97.5	46.296	46.351	45.673	46.955	46.890	46.955	45.673	46.351	46.296	46.351
100.0	55.861	56.298	55.982	57.171	57.292	57.171	55.982	56.298	55.861	56.298
102.5	54.505	53.456	55.295	54.886	54.329	54.886	55.295	53.456	54.505	53.456
105.0	53.140	50.605	54.608	52.592	51.357	52.592	54.608	50.605	53.140	50.605
107.5	49.834	48.840	49.602	48.190	48.552	48.190	49.602	48.840	49.834	48.840
110.0	46.528	47.067	44.587	43.779	45.748	43.779	44.587	47.067	46.528	47.067
112.5	40.380	41.448	39.349	39.776	39.154	39.776	39.349	41.448	40.380	41.448
115.0	34.223	35.820	34.111	35.774	32.560	35.774	34.111	35.820	34.223	35.820
117.5	30.944	33.164	31.093	31.938	30.638	31.938	31.093	33.164	30.944	33.164
120.0	27.666	30.499	28.065	28.093	28.706	28.093	28.065	30.499	27.666	30.499
122.5	26.607	25.744	25.623	25.484	26.422	25.484	25.623	25.744	26.607	25.744
125.0	25.549	20.989	23.180	22.874	24.137	22.874	23.180	20.989	25.549	20.989
127.5	21.815	19.075	20.078	21.016	20.264	21.016	20.078	19.075	21.815	19.075
130.0	18.082	17.153	16.977	19.159	16.382	19.159	16.977	17.153	18.082	17.153
132.5	16.698	16.475	16.587	17.042	17.088	17.042	16.587	16.475	16.698	16.475

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135.0	15.305	15.797	16.187	14.915	17.794	14.915	16.187	15.797	15.305	15.797
137.5	17.961	17.710	17.785	17.933	18.230	17.933	17.785	17.710	17.961	17.710
140.0	20.617	19.623	19.382	20.942	18.658	20.942	19.382	19.623	20.617	19.623
142.5	20.784	21.472	21.184	21.230	20.691	21.230	21.184	21.472	20.784	21.472
145.0	20.951	23.310	22.976	21.509	22.716	21.509	22.976	23.310	20.951	23.310
147.5	21.007	22.019	21.230	22.066	20.821	22.066	21.230	22.019	21.007	22.019
150.0	21.054	20.729	19.475	22.623	18.918	22.623	19.475	20.729	21.054	20.729
152.5	18.212	18.871	17.831	19.596	17.664	19.596	17.831	18.871	18.212	18.871
155.0	15.370	17.004	16.187	16.559	16.410	16.559	16.187	17.004	15.370	17.004
157.5	13.680	14.497	14.646	14.274	15.491	14.274	14.646	14.497	13.680	14.497
160.0	11.990	11.990	13.104	11.980	14.562	11.980	13.104	11.990	11.990	11.990
162.5	10.996	11.302	10.151	10.624	13.020	10.624	10.151	11.302	10.996	11.302
165.0	10.002	10.606	7.188	9.268	11.469	9.268	7.188	10.606	10.002	10.606
167.5	7.550	7.940	7.142	6.910	8.108	6.910	7.142	7.940	7.550	7.940
170.0	5.099	5.275	7.095	4.551	4.736	4.551	7.095	5.275	5.099	5.275
172.5	3.641	3.724	4.820	2.823	3.455	2.823	4.820	3.724	3.641	3.724
175.0	2.173	2.173	2.535	1.087	2.173	1.087	2.535	2.173	2.173	2.173
177.5	1.087	1.087	1.272	0.548	1.087	0.548	1.272	1.087	1.087	1.087
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	5061.758	5061.758	5061.758	5061.758	5061.758	5061.758	5061.758
2.5	5008.702	5024.499	5032.347	5024.499	5008.702	5059.028	5065.798
5.0	4955.645	4987.240	5002.925	4987.240	4955.645	5056.288	5069.829
7.5	4923.512	4953.268	4952.757	4953.268	4923.512	4963.288	5004.727
10.0	4891.370	4919.296	4902.589	4919.296	4891.370	4870.288	4939.625
12.5	4758.584	4783.018	4749.678	4783.018	4758.584	4747.022	4797.153
15.0	4625.790	4646.732	4596.758	4646.732	4625.790	4623.756	4654.681
17.5	4466.276	4483.086	4436.390	4483.086	4466.276	4468.403	4488.416
20.0	4306.753	4319.439	4276.013	4319.439	4306.753	4313.050	4322.151
22.5	4114.132	4104.436	4106.488	4104.436	4114.132	4101.065	4142.559
25.0	3921.510	3889.423	3936.954	3889.423	3921.510	3889.070	3962.967
27.5	3682.537	3662.756	3689.186	3662.756	3682.537	3664.019	3689.846
30.0	3443.554	3436.088	3441.409	3436.088	3443.554	3438.957	3416.724
32.5	3154.441	3160.431	3149.352	3160.431	3154.441	3155.035	3162.288
35.0	2865.327	2884.774	2857.285	2884.774	2865.327	2871.104	2907.852
37.5	2571.162	2572.545	2569.137	2572.545	2571.162	2553.953	2592.652
40.0	2276.996	2260.307	2280.980	2260.307	2276.996	2236.802	2277.442
42.5	1992.795	1977.360	1993.956	1977.360	1992.795	1960.318	1986.471
45.0	1708.585	1694.404	1706.923	1694.404	1708.585	1683.826	1695.500
47.5	1496.229	1489.133	1500.603	1489.133	1496.229	1486.486	1490.211
50.0	1283.872	1283.863	1294.283	1283.863	1283.872	1289.147	1284.921
52.5	1131.639	1139.812	1136.162	1139.812	1131.639	1137.862	1139.078
55.0	979.407	995.761	978.033	995.761	979.407	986.577	993.226
57.5	860.877	876.033	863.412	876.033	860.877	869.328	868.297
60.0	742.356	756.315	748.792	756.315	742.356	752.080	743.369
62.5	644.880	654.000	654.408	654.000	644.880	651.808	642.484
65.0	547.394	551.685	560.015	551.685	547.394	551.536	541.590
67.5	473.386	473.331	481.132	473.331	473.386	474.287	464.545
70.0	399.369	394.976	402.239	394.976	399.369	397.029	387.500
72.5	333.153	332.558	337.647	332.558	333.153	334.137	327.441
75.0	266.927	270.140	273.047	270.140	266.927	271.245	267.373
77.5	222.136	223.965	227.931	223.965	222.136	223.167	223.074
80.0	177.345	177.781	182.805	177.781	177.345	175.079	178.765

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CANDELA TABULATION - (Cont.)

82.5	140.299	140.132	144.664	140.132	140.299	138.822	141.794
85.0	103.253	102.482	106.522	102.482	103.253	102.556	104.813
87.5	60.830	59.678	62.455	59.678	60.830	60.876	61.164
90.0	18.407	16.874	18.388	16.874	18.407	19.187	17.515
92.5	26.886	26.812	27.434	26.812	26.886	27.796	27.118
95.0	35.365	36.739	36.479	36.739	35.365	36.396	36.721
97.5	45.673	46.955	46.890	46.955	45.673	46.351	46.296
100.0	55.982	57.171	57.292	57.171	55.982	56.298	55.861
102.5	55.295	54.886	54.329	54.886	55.295	53.456	54.505
105.0	54.608	52.592	51.357	52.592	54.608	50.605	53.140
107.5	49.602	48.190	48.552	48.190	49.602	48.840	49.834
110.0	44.587	43.779	45.748	43.779	44.587	47.067	46.528
112.5	39.349	39.776	39.154	39.776	39.349	41.448	40.380
115.0	34.111	35.774	32.560	35.774	34.111	35.820	34.223
117.5	31.093	31.938	30.638	31.938	31.093	33.164	30.944
120.0	28.065	28.093	28.706	28.093	28.065	30.499	27.666
122.5	25.623	25.484	26.422	25.484	25.623	25.744	26.607
125.0	23.180	22.874	24.137	22.874	23.180	20.989	25.549
127.5	20.078	21.016	20.264	21.016	20.078	19.075	21.815
130.0	16.977	19.159	16.382	19.159	16.977	17.153	18.082
132.5	16.587	17.042	17.088	17.042	16.587	16.475	16.698
135.0	16.187	14.915	17.794	14.915	16.187	15.797	15.305
137.5	17.785	17.933	18.230	17.933	17.785	17.710	17.961
140.0	19.382	20.942	18.658	20.942	19.382	19.623	20.617
142.5	21.184	21.230	20.691	21.230	21.184	21.472	20.784
145.0	22.976	21.509	22.716	21.509	22.976	23.310	20.951
147.5	21.230	22.066	20.821	22.066	21.230	22.019	21.007
150.0	19.475	22.623	18.918	22.623	19.475	20.729	21.054
152.5	17.831	19.596	17.664	19.596	17.831	18.871	18.212
155.0	16.187	16.559	16.410	16.559	16.187	17.004	15.370
157.5	14.646	14.274	15.491	14.274	14.646	14.497	13.680
160.0	13.104	11.980	14.562	11.980	13.104	11.990	11.990
162.5	10.151	10.624	13.020	10.624	10.151	11.302	10.996
165.0	7.188	9.268	11.469	9.268	7.188	10.606	10.002
167.5	7.142	6.910	8.108	6.910	7.142	7.940	7.550
170.0	7.095	4.551	4.736	4.551	7.095	5.275	5.099
172.5	4.820	2.823	3.455	2.823	4.820	3.724	3.641
175.0	2.535	1.087	2.173	1.087	2.535	2.173	2.173
177.5	1.272	0.548	1.087	0.548	1.272	1.087	1.087
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1774.86	N.A.	20.30
0-30	3564.92	N.A.	40.90
0-40	5349.12	N.A.	61.30
0-60	7577.89	N.A.	86.80
0-80	8426.8	N.A.	96.60
0-90	8536.48	N.A.	97.80
10-90	8062.07	N.A.	92.40
20-40	3574.25	N.A.	41.00
20-50	4908.35	N.A.	56.30
40-70	2784.02	N.A.	31.90
60-80	848.91	N.A.	9.70
70-80	293.67	N.A.	3.40
80-90	109.67	N.A.	1.30
90-110	94.86	N.A.	1.10
90-120	130.62	N.A.	1.50
90-130	151.41	N.A.	1.70
90-150	178.20	N.A.	2.00
90-180	188.99	N.A.	2.20
110-180	94.13	N.A.	1.10
0-180	8725.47	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	474.40
10-20	1300.46
20-30	1790.06
30-40	1784.19
40-50	1334.1
50-60	894.68
60-70	555.24
70-80	293.67
80-90	109.67
90-100	40.09
100-110	54.77
110-120	35.75
120-130	20.79
130-140	13.38
140-150	13.41
150-160	7.76
160-170	2.72
170-180	0.31

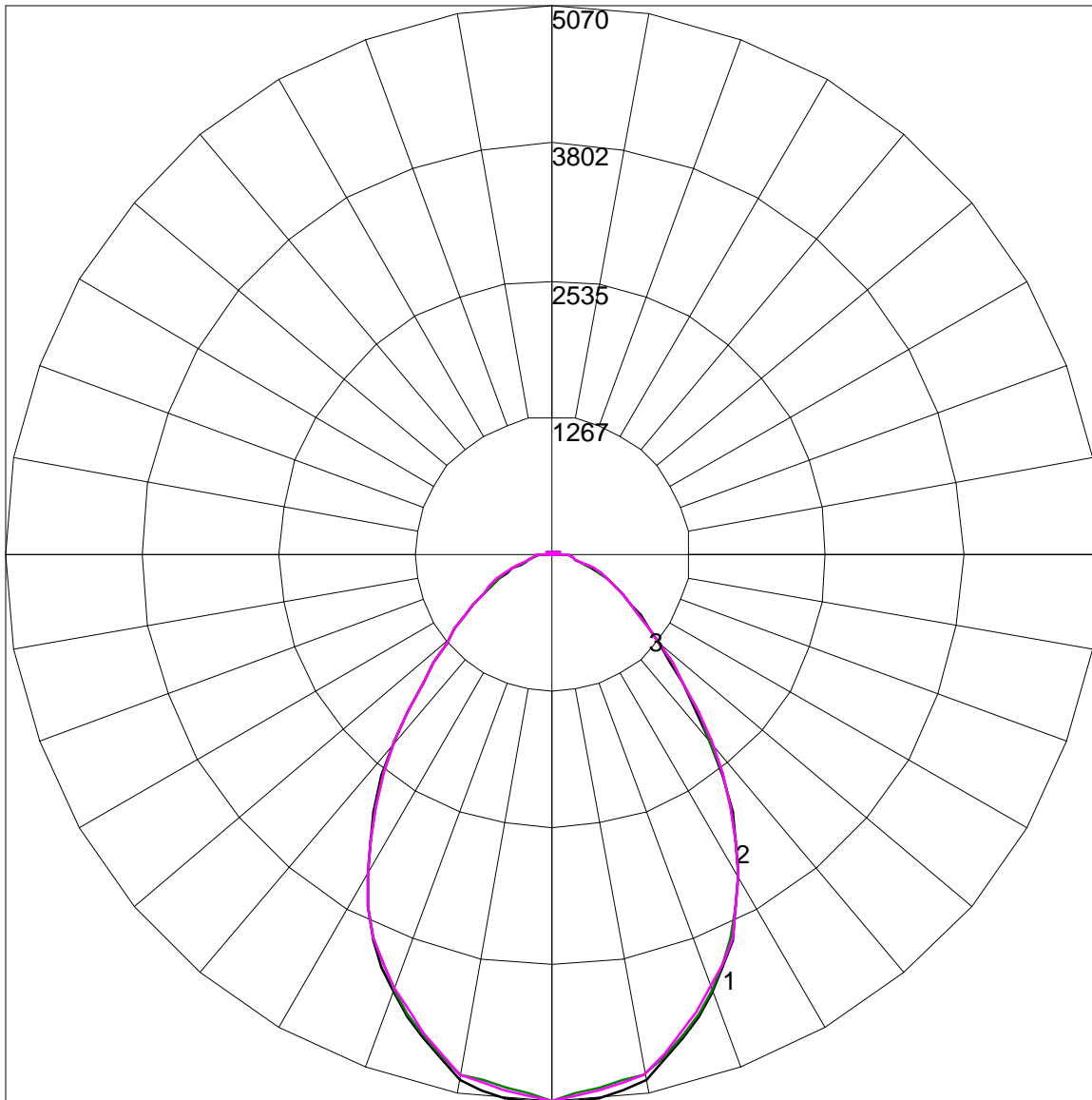
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	110	110	105	105	105	100	100	100	98
1	110	106	103	99	107	104	101	98	99	97	94	95	93	91	91	89	88	86
2	102	95	89	85	99	93	88	83	89	85	81	86	82	79	83	80	77	75
3	94	86	79	73	92	84	77	72	81	75	71	78	73	69	75	71	68	66
4	88	77	70	64	85	76	69	64	73	67	63	71	66	61	69	64	61	59
5	82	70	63	57	80	69	62	56	67	61	56	65	59	55	63	58	54	52
6	76	64	57	51	74	63	56	51	62	55	50	60	54	50	58	53	49	47
7	71	59	51	46	69	58	51	46	57	50	45	55	49	45	54	48	44	43
8	67	55	47	42	65	54	47	42	53	46	41	51	45	41	50	45	41	39
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	34	33

POLAR GRAPH



Maximum Candela = 5069.829 Located At Horizontal Angle = 0, Vertical Angle = 5

1 - Vertical Plane Through Horizontal Angles (0 - 180)

2 - Vertical Plane Through Horizontal Angles (45 - 225)

3 - Vertical Plane Through Horizontal Angles (90 - 270)