

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00621_13 ~ SGE8BX80L-35KND-DO101-AR8BXMWWF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00621_13
[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 6/7/2018
[UPDATE] 7/13/2018
[LUMCAT] SGE8BX-80L35K-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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6535
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	60
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 ~ SGE8BX80L-35KND-DO101-AR8BXMWWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1938	1883	2026
55	1757	1507	1759
65	1228	1337	1533
75	629	581	670
85	391	503	668

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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	22278.410	22278.410	22278.410	22278.410	22278.410	22278.410	22278.410	22278.410	22278.410	22278.410
2.5	21684.721	22201.619	21799.529	22059.391	21705.891	22045.930	21614.340	21647.180	21569.930	21873.410
5.0	20688.150	20248.740	20681.881	20276.289	20607.471	20191.090	20340.920	19946.471	20263.990	20019.961
7.5	17542.189	18037.961	17668.160	17966.500	17569.770	18077.039	17452.830	17391.529	17408.439	17659.510
10.0	14330.250	14266.300	14411.920	14117.820	14144.470	14292.990	14326.280	13892.510	14320.530	14040.090
12.5	10832.460	10781.760	10674.210	10663.560	10719.300	10726.770	10789.300	10760.370	10833.760	10771.500
15.0	7898.578	8079.216	7799.418	7807.896	7499.640	8111.580	8049.477	7858.953	8101.200	7982.067
17.5	6128.246	5988.131	5882.608	5820.005	5921.688	5965.087	6076.457	6088.296	6101.965	6056.469
20.0	4799.108	4774.132	4650.981	4593.032	4570.960	4790.852	4824.680	4688.875	4846.511	4796.194
22.5	3976.856	3923.200	3846.277	3869.235	3901.315	3928.843	3969.329	3987.741	3998.758	4017.195
25.0	3374.376	3373.695	3357.694	3387.683	3360.949	3427.247	3443.983	3377.429	3463.915	3440.727
27.5	2915.824	2914.756	2973.521	2982.896	3023.580	2981.637	3007.672	2958.574	3014.853	3019.721
30.0	2406.134	2496.774	2433.258	2596.042	2545.508	2572.872	2502.176	2498.859	2576.772	2627.727
32.5	1878.771	1786.880	1868.608	1855.358	1941.646	1913.905	1972.926	1839.045	2117.697	2059.571
35.0	1172.502	1014.723	1111.229	1117.978	1265.788	1167.940	1182.525	1187.062	1331.070	1475.565
37.5	453.763	556.015	444.054	595.110	553.971	654.833	499.765	552.638	634.202	799.964
40.0	233.263	147.618	211.861	174.056	256.457	181.239	236.345	163.315	292.858	263.842
42.5	47.485	86.192	48.111	92.578	58.789	104.818	58.607	76.731	63.147	125.806
45.0	39.720	39.009	38.598	40.268	41.530	40.166	44.864	39.917	49.664	41.966
47.5	33.968	35.896	33.009	38.423	34.694	37.882	37.115	38.221	40.056	39.971
50.0	32.940	32.031	32.223	34.974	33.681	35.181	35.804	36.392	34.656	37.981
52.5	31.400	26.937	29.372	29.975	32.223	31.498	32.285	34.514	31.381	35.995
55.0	29.211	24.303	25.056	26.677	29.243	28.926	27.419	31.870	29.417	33.418
57.5	26.397	23.922	22.979	24.319	25.780	27.791	27.005	29.108	26.681	30.558
60.0	23.123	22.178	21.741	21.839	21.464	25.868	27.998	27.289	23.699	29.560
62.5	19.209	19.725	19.169	19.327	19.140	23.366	23.179	24.762	23.028	28.984
65.0	15.044	16.110	16.380	14.156	18.777	18.950	17.785	17.962	22.485	22.427
67.5	10.563	12.204	12.727	9.174	14.888	13.770	14.408	12.727	18.057	15.870
70.0	6.278	9.539	9.314	8.704	9.028	10.730	10.969	11.486	13.534	12.120
72.5	5.641	7.073	6.853	7.443	6.767	8.072	7.288	9.043	8.619	9.036
75.0	4.721	5.044	4.360	4.756	5.024	5.711	4.630	5.313	4.982	7.588
77.5	3.432	2.717	2.132	3.452	3.049	4.057	3.004	4.626	2.738	5.570
80.0	1.884	1.606	2.060	2.743	2.526	3.177	2.473	3.628	3.185	3.423
82.5	1.490	1.812	1.387	2.085	1.745	1.739	1.871	1.613	1.986	2.015
85.0	0.987	1.276	1.272	1.110	1.687	1.078	1.061	0.905	0.905	0.709
87.5	0.749	1.034	0.716	0.835	0.868	1.781	0.871	0.927	0.932	1.463
90.0	0.000	0.000	0.000	0.000	0.000	0.859	0.848	0.692	1.006	0.882
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	22278.410	22278.410	22278.410	22278.410	22278.410	22278.410	22278.410
2.5	21598.820	22039.641	21758.920	21817.449	21624.170	22052.670	21684.721
5.0	20475.301	20042.061	20267.580	20009.070	20592.189	20276.721	20688.150
7.5	17375.039	17770.439	17591.490	17530.869	17442.311	18089.070	17542.189
10.0	14191.530	14078.710	14342.500	13908.660	14238.500	14418.840	14330.250
12.5	10714.020	10694.000	10684.250	10697.070	10801.970	10764.830	10832.460
15.0	7852.472	8023.404	8119.766	7882.865	7900.104	8289.334	7898.578
17.5	6087.988	5997.411	5975.974	6040.926	6114.995	6105.708	6128.246
20.0	4816.149	4793.246	4879.336	4729.199	4801.666	4959.674	4799.108
22.5	4039.954	3999.462	3951.592	4019.631	4029.008	4024.871	3976.856
25.0	3494.663	3504.706	3549.934	3473.990	3466.667	3462.742	3374.376
27.5	3080.732	3073.621	3137.921	3075.995	3043.613	2986.618	2915.824
30.0	2627.929	2667.618	2661.741	2672.933	2577.321	2597.411	2406.134
32.5	2163.925	2049.507	2099.307	2019.871	2096.135	1989.480	1878.771
35.0	1431.384	1395.804	1312.709	1366.319	1353.447	1258.292	1172.502
37.5	697.027	790.035	686.999	710.836	585.649	712.899	453.763
40.0	365.659	250.043	286.435	235.770	304.249	221.389	233.263
42.5	92.732	133.188	89.180	108.341	64.589	109.963	47.485
45.0	64.109	46.942	54.487	40.608	48.660	36.706	39.720
47.5	43.534	42.198	41.244	36.548	36.804	33.983	33.968
50.0	39.157	38.302	37.433	34.811	34.478	31.243	32.940
52.5	36.819	35.618	33.811	34.500	33.017	28.433	31.400
55.0	36.773	32.499	30.228	32.260	32.680	27.100	29.211
57.5	34.444	29.025	26.928	29.417	30.261	28.756	26.397
60.0	30.654	27.141	23.631	25.838	26.317	26.973	23.123
62.5	26.227	25.970	20.291	22.224	23.404	21.360	19.209
65.0	21.584	20.127	17.383	19.819	20.907	18.122	15.044

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00621_13 ~ SGE8BX80L-35KND-DO101-AR8BXMWWF.IES****CANDELA TABULATION - (Cont.)**

67.5	17.449	13.318	15.768	16.814	14.127	16.412	10.563
70.0	13.436	10.336	12.335	11.272	6.930	11.735	6.278
72.5	10.481	7.709	6.252	7.031	5.248	6.432	5.641
75.0	7.754	6.156	3.662	4.319	4.203	4.838	4.721
77.5	5.461	4.449	2.682	3.085	4.068	3.340	3.432
80.0	3.695	2.673	1.362	2.808	2.580	2.277	1.884
82.5	2.825	1.251	1.176	2.542	2.340	2.389	1.490
85.0	2.167	1.050	0.879	1.560	2.211	1.212	0.987
87.5	1.442	1.124	0.822	0.764	1.193	0.948	0.749
90.0	0.737	1.103	0.928	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 ~ SGE8BX80L-35KND-DO101-AR8BXMWWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	4028.45	N.A.	61.60
0-30	5629.76	N.A.	86.10
0-40	6425.51	N.A.	98.30
0-60	6509.51	N.A.	99.60
0-80	6533.59	N.A.	100.00
0-90	6535.14	N.A.	100.00
10-90	4794.58	N.A.	73.40
20-40	2397.06	N.A.	36.70
20-50	2454.21	N.A.	37.60
40-70	102.08	N.A.	1.60
60-80	24.08	N.A.	0.40
70-80	6.00	N.A.	0.10
80-90	1.56	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	6535.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1740.56
10-20	2287.88
20-30	1601.31
30-40	795.75
40-50	57.15
50-60	26.85
60-70	18.08
70-80	6.00
80-90	1.56
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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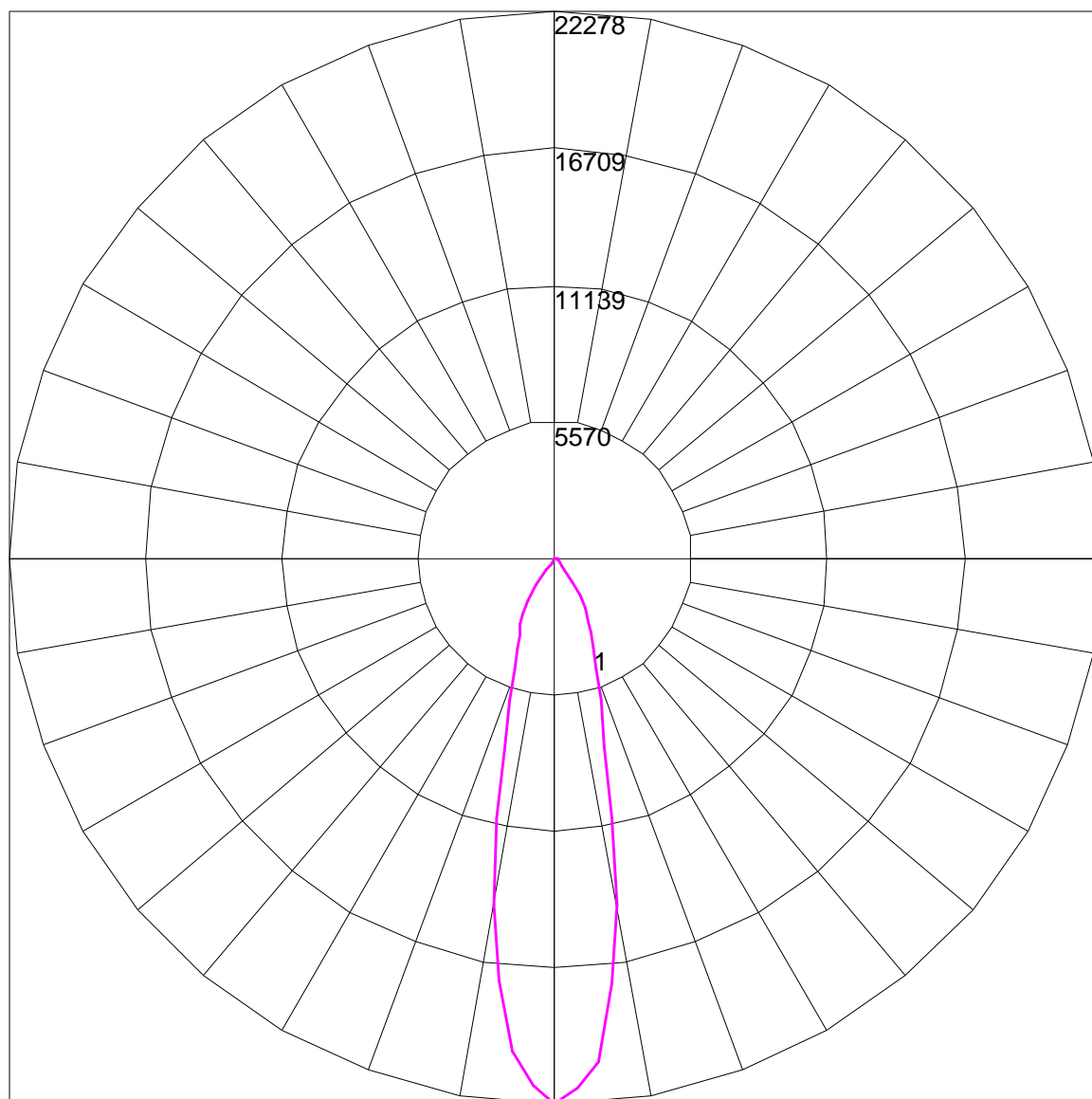
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	95	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 ~ SGE8BX80L-35KND-DO101-AR8BXMWWF.IES

POLAR GRAPH



Maximum Candela = 22278.41 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)