

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_13 ~ SGE6BX80L-35KWD-DO101-AR6BXSGWF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00625_13
[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 6/7/2018
[UPDATE] 7/12/2018
[LUMCAT] SGE6BX-80L35K-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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6191
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)	0.62
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 ~ SGE6BX80L-35KWD-DO101-AR6BXSGWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	15583	17299	18408
55	502	513	511
65	172	218	204
75	215	161	208
85	751	358	357

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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	12392.340	12392.340	12392.340	12392.340	12392.340	12392.340	12392.340	12392.340	12392.340	12392.340
2.5	12012.300	12030.570	11866.290	12047.190	11956.750	11291.620	11542.960	11422.110	11799.070	11756.850
5.0	11353.700	11178.420	11074.230	11063.050	11217.180	10244.380	10360.880	10465.200	10725.380	10953.100
7.5	10135.410	10143.090	9841.337	10019.730	9968.623	9201.465	9352.120	9374.457	9710.360	9807.965
10.0	9063.806	9023.426	8770.834	8937.133	8855.907	8249.990	8420.604	8407.552	8734.848	8772.665
12.5	8249.918	8195.118	8028.046	8112.640	8133.542	7623.057	7715.147	7734.495	7947.552	8021.125
15.0	7507.443	7507.848	7343.521	7469.970	7450.081	7015.030	7117.393	7092.794	7292.850	7305.925
17.5	6896.546	6903.735	6784.556	6884.119	6887.312	6478.596	6559.854	6529.535	6691.509	6691.684
20.0	6294.975	6342.570	6222.302	6340.129	6324.182	5911.572	6022.448	5941.430	6130.046	6069.178
22.5	5711.432	5718.125	5652.591	5728.348	5759.866	5217.881	5316.542	5287.719	5442.335	5422.369
25.0	4982.386	5059.385	4945.814	5064.348	5097.239	4447.361	4520.705	4513.301	4655.989	4658.067
27.5	3953.201	4112.217	3911.686	4157.411	4082.910	3335.237	3533.163	3395.841	3676.143	3520.419
30.0	2949.171	2998.637	2918.814	3052.099	3088.863	2298.046	2438.302	2374.157	2538.291	2460.156
32.5	1999.694	2121.264	2031.641	2166.612	2172.246	1628.740	1679.804	1640.756	1700.787	1661.221
35.0	1223.996	1386.693	1282.406	1468.697	1358.888	1016.709	1121.657	1006.611	1123.185	970.417
37.5	851.472	912.183	906.427	968.227	967.357	709.191	739.206	695.605	713.044	668.497
40.0	532.466	602.328	575.860	646.262	609.767	424.343	466.371	418.952	454.301	397.462
42.5	344.299	381.674	377.659	405.868	404.462	270.624	280.563	261.253	265.642	247.555
45.0	185.413	221.002	205.835	242.514	219.023	129.501	151.600	124.855	144.107	116.095
47.5	102.051	116.732	115.495	127.222	129.650	70.476	73.324	67.079	65.161	62.137
50.0	36.099	52.143	41.513	60.012	50.468	17.707	30.197	19.226	28.822	16.524
52.5	18.435	18.684	21.191	20.116	26.029	9.921	9.447	11.367	8.547	9.478
55.0	4.848	8.458	4.956	8.766	4.928	2.928	4.929	4.697	5.293	3.461
57.5	3.233	3.233	3.274	2.523	3.342	2.509	2.720	3.170	3.114	2.577
60.0	1.914	1.908	1.909	1.854	1.939	2.067	2.290	1.835	2.124	1.783
62.5	1.538	1.430	1.746	1.306	1.701	1.413	1.737	1.414	1.457	1.475
65.0	1.225	1.653	1.549	0.897	1.452	0.882	1.084	1.101	1.163	1.199
67.5	1.123	1.492	1.219	0.847	1.118	1.558	0.951	1.316	1.004	1.106
70.0	1.012	1.026	0.925	1.191	0.888	2.050	1.217	1.421	0.993	1.021
72.5	0.884	0.806	0.724	1.242	1.030	1.712	1.260	1.200	0.998	0.965
75.0	0.937	0.703	0.703	1.113	0.905	1.326	1.201	1.059	1.012	0.899
77.5	1.107	0.974	0.825	0.909	0.500	0.884	0.998	0.989	0.723	0.825
80.0	0.933	0.938	0.687	0.826	0.659	1.003	0.980	1.180	0.790	0.955
82.5	0.951	0.707	0.534	0.847	0.575	0.996	1.202	1.127	1.085	0.933
85.0	1.101	0.770	0.525	0.665	0.523	0.856	1.446	0.963	1.046	0.823
87.5	1.061	1.227	0.619	0.378	0.245	0.889	1.101	0.532	1.166	0.737
90.0	0.779	0.177	0.509	0.205	0.638	0.744	0.401	0.712	0.395	0.357
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	12392.340	12392.340	12392.340	12392.340	12392.340	12392.340	12392.340
2.5	12050.830	11956.790	12014.560	12291.250	12196.420	12185.850	12012.300
5.0	11151.180	11201.240	11106.120	11885.930	11754.800	11564.690	11353.700
7.5	10150.170	10015.650	10076.710	10877.690	10553.270	10587.080	10135.410
10.0	9090.247	8969.507	8996.846	9661.981	9440.070	9428.951	9063.806
12.5	8233.809	8168.383	8153.349	8735.586	8563.191	8519.213	8249.918
15.0	7503.118	7416.273	7413.715	7916.425	7739.665	7741.520	7507.443
17.5	6843.899	6754.473	6750.070	7211.349	7067.051	7063.950	6896.546
20.0	6230.923	6094.511	6122.130	6550.931	6411.546	6442.212	6294.975
22.5	5524.874	5438.156	5385.899	5908.686	5808.258	5804.631	5711.432
25.0	4755.799	4623.598	4596.193	5274.071	5107.410	5157.648	4982.386
27.5	3748.559	3482.702	3557.204	4307.763	4090.538	4218.913	3953.201
30.0	2570.162	2436.780	2386.937	3194.776	3078.093	3098.846	2949.171
32.5	1710.228	1600.180	1588.558	2243.587	2080.900	2171.304	1999.694
35.0	1089.611	926.699	995.636	1367.677	1215.300	1370.880	1223.996
37.5	675.463	631.657	629.333	870.319	842.987	866.280	851.472
40.0	425.823	379.639	394.291	561.038	509.766	566.060	532.466
42.5	249.101	232.805	235.264	353.336	333.229	353.858	344.299
45.0	133.096	111.378	123.059	198.626	175.463	206.177	185.413
47.5	61.234	56.631	58.713	104.767	100.236	108.609	102.051
50.0	27.778	14.623	25.233	44.725	35.119	49.452	36.099
52.5	9.118	7.948	8.943	16.796	17.873	17.735	18.435
55.0	4.097	2.796	4.425	7.577	3.349	8.002	4.848
57.5	1.547	2.196	2.133	3.458	2.754	3.169	3.233
60.0	1.378	1.651	1.436	2.497	2.217	2.497	1.914
62.5	1.254	1.282	0.997	1.775	2.005	1.957	1.538
65.0	1.176	0.959	0.752	1.208	1.749	1.535	1.225

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_13 ~ SGE6BX80L-35KWD-DO101-AR6BXSGWF.IES****CANDELA TABULATION - (Cont.)**

67.5	1.071	0.786	0.813	1.059	1.238	1.304	1.123
70.0	0.938	0.636	1.097	1.172	0.867	1.239	1.012
72.5	0.969	0.536	0.843	0.925	0.973	0.881	0.884
75.0	1.090	0.618	0.400	0.588	0.891	0.392	0.937
77.5	0.800	0.817	0.557	0.678	0.625	0.691	1.107
80.0	0.630	0.689	0.609	0.694	0.820	0.938	0.933
82.5	0.628	0.571	0.605	0.731	0.962	1.124	0.951
85.0	0.750	0.632	0.862	0.780	0.789	1.060	1.101
87.5	0.815	0.407	1.078	0.710	0.333	0.707	1.061
90.0	0.346	0.657	0.632	0.292	0.704	0.239	0.779
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 ~ SGE6BX80L-35KWD-DO101-AR6BXSGWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3070.76	N.A.	49.60
0-30	5188.48	N.A.	83.80
0-40	6021.95	N.A.	97.30
0-60	6187.66	N.A.	99.90
0-80	6189.96	N.A.	100.00
0-90	6190.81	N.A.	100.00
10-90	5203.34	N.A.	84.00
20-40	2951.19	N.A.	47.70
20-50	3108.03	N.A.	50.20
40-70	167.05	N.A.	2.70
60-80	2.30	N.A.	0.00
70-80	0.96	N.A.	0.00
80-90	0.85	N.A.	0.00
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	6190.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	987.47
10-20	2083.29
20-30	2117.72
30-40	833.47
40-50	156.84
50-60	8.87
60-70	1.34
70-80	0.96
80-90	0.85
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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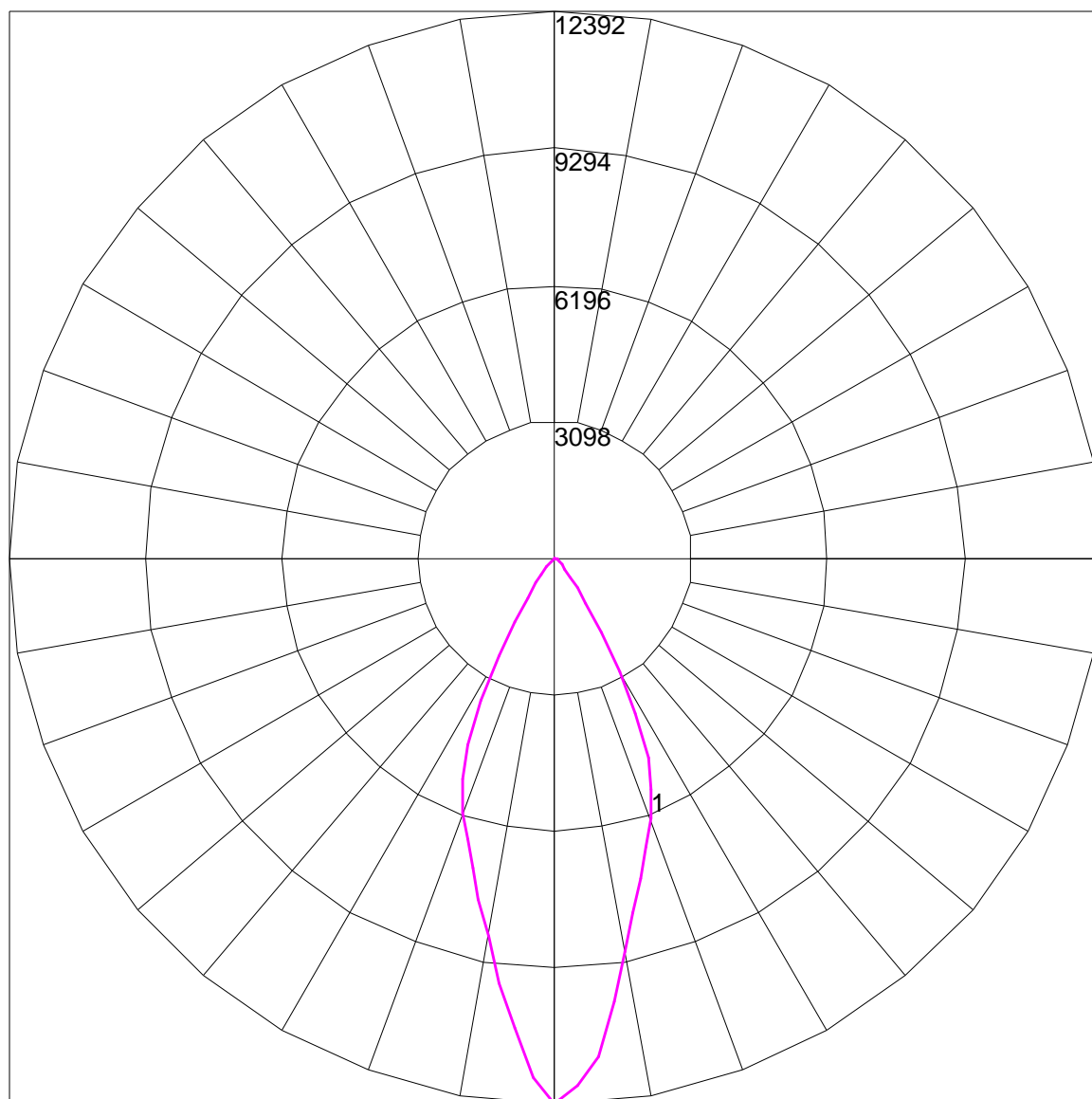
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 ~ SGE6BX80L-35KWD-DO101-AR6BXSGWF.IES

POLAR GRAPH



Maximum Candela = 12392.34 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)