

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00701\_1 ~ TA1610GV-15L35K-EX-FJ1-MB.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00701\_1\_M-15L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 7/18/2018

[UPDATE] 7/25/2018

[LUMCAT] TT1610GV-15L-35K-EX-FJ1-MB

[LUMINAIRE] Nom. 16.5" diam acrylic shade x 10" H decorative Tech Tier luminaire

[OTHER] 3" x 6.5" Frosted Glass Jar

[OTHER] Remote driver in canopy

[LAMP] N/A, Gen3

[LAMPCAT] N/A

[OTHER] Total Luminaire Watts is approximate

[OTHER] This report generated by Spectrum Lighting, scaled from 27L

[\_CCTMULT] 27K x 0.971, 30K x 0.985, 40K x 1.03

[\_LAMPMULT]

[\_CRI] 85+

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	645
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	64
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	0.80
Spacing Criterion (90-270)	0.80
Spacing Criterion (Diagonal)	1.06
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.38 ft (Diameter)
Luminous Width (90-270)	1.38 ft (Diameter)
Luminous Height	0.33 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00701\_1 ~ TA1610GV-15L35K-EX-FJ1-MB.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	788	788	788
55	708	708	708
65	578	578	578
75	537	537	537
85	858	858	858

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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>
<b>0.0</b>	222.891	222.891	222.891	222.891	222.891	222.891	222.891	222.891	222.891	222.891
<b>2.5</b>	222.745	222.745	222.745	222.745	222.745	222.745	222.745	222.745	222.745	222.745
<b>5.0</b>	216.528	216.528	216.528	216.528	216.528	216.528	216.528	216.528	216.528	216.528
<b>7.5</b>	210.021	210.021	210.021	210.021	210.021	210.021	210.021	210.021	210.021	210.021
<b>10.0</b>	199.870	199.870	199.870	199.870	199.870	199.870	199.870	199.870	199.870	199.870
<b>12.5</b>	189.067	189.067	189.067	189.067	189.067	189.067	189.067	189.067	189.067	189.067
<b>15.0</b>	173.575	173.575	173.575	173.575	173.575	173.575	173.575	173.575	173.575	173.575
<b>17.5</b>	158.565	158.565	158.565	158.565	158.565	158.565	158.565	158.565	158.565	158.565
<b>20.0</b>	145.891	145.891	145.891	145.891	145.891	145.891	145.891	145.891	145.891	145.891
<b>22.5</b>	134.006	134.006	134.006	134.006	134.006	134.006	134.006	134.006	134.006	134.006
<b>25.0</b>	124.914	124.914	124.914	124.914	124.914	124.914	124.914	124.914	124.914	124.914
<b>27.5</b>	117.021	117.021	117.021	117.021	117.021	117.021	117.021	117.021	117.021	117.021
<b>30.0</b>	112.395	112.395	112.395	112.395	112.395	112.395	112.395	112.395	112.395	112.395
<b>32.5</b>	108.868	108.868	108.868	108.868	108.868	108.868	108.868	108.868	108.868	108.868
<b>35.0</b>	107.709	107.709	107.709	107.709	107.709	107.709	107.709	107.709	107.709	107.709
<b>37.5</b>	106.534	106.534	106.534	106.534	106.534	106.534	106.534	106.534	106.534	106.534
<b>40.0</b>	105.336	105.336	105.336	105.336	105.336	105.336	105.336	105.336	105.336	105.336
<b>42.5</b>	103.646	103.646	103.646	103.646	103.646	103.646	103.646	103.646	103.646	103.646
<b>45.0</b>	101.266	101.266	101.266	101.266	101.266	101.266	101.266	101.266	101.266	101.266
<b>47.5</b>	97.761	97.761	97.761	97.761	97.761	97.761	97.761	97.761	97.761	97.761
<b>50.0</b>	92.956	92.956	92.956	92.956	92.956	92.956	92.956	92.956	92.956	92.956
<b>52.5</b>	87.449	87.449	87.449	87.449	87.449	87.449	87.449	87.449	87.449	87.449
<b>55.0</b>	81.279	81.279	81.279	81.279	81.279	81.279	81.279	81.279	81.279	81.279
<b>57.5</b>	75.128	75.128	75.128	75.128	75.128	75.128	75.128	75.128	75.128	75.128
<b>60.0</b>	68.991	68.991	68.991	68.991	68.991	68.991	68.991	68.991	68.991	68.991
<b>62.5</b>	62.711	62.711	62.711	62.711	62.711	62.711	62.711	62.711	62.711	62.711
<b>65.0</b>	56.338	56.338	56.338	56.338	56.338	56.338	56.338	56.338	56.338	56.338
<b>67.5</b>	50.225	50.225	50.225	50.225	50.225	50.225	50.225	50.225	50.225	50.225
<b>70.0</b>	44.244	44.244	44.244	44.244	44.244	44.244	44.244	44.244	44.244	44.244
<b>72.5</b>	42.069	42.069	42.069	42.069	42.069	42.069	42.069	42.069	42.069	42.069
<b>75.0</b>	41.458	41.458	41.458	41.458	41.458	41.458	41.458	41.458	41.458	41.458
<b>77.5</b>	43.114	43.114	43.114	43.114	43.114	43.114	43.114	43.114	43.114	43.114
<b>80.0</b>	45.499	45.499	45.499	45.499	45.499	45.499	45.499	45.499	45.499	45.499
<b>82.5</b>	46.392	46.392	46.392	46.392	46.392	46.392	46.392	46.392	46.392	46.392
<b>85.0</b>	46.930	46.930	46.930	46.930	46.930	46.930	46.930	46.930	46.930	46.930
<b>87.5</b>	45.517	45.517	45.517	45.517	45.517	45.517	45.517	45.517	45.517	45.517
<b>90.0</b>	43.776	43.776	43.776	43.776	43.776	43.776	43.776	43.776	43.776	43.776
<b>92.5</b>	42.977	42.977	42.977	42.977	42.977	42.977	42.977	42.977	42.977	42.977
<b>95.0</b>	42.279	42.279	42.279	42.279	42.279	42.279	42.279	42.279	42.279	42.279
<b>97.5</b>	42.277	42.277	42.277	42.277	42.277	42.277	42.277	42.277	42.277	42.277
<b>100.0</b>	42.307	42.307	42.307	42.307	42.307	42.307	42.307	42.307	42.307	42.307
<b>102.5</b>	41.711	41.711	41.711	41.711	41.711	41.711	41.711	41.711	41.711	41.711
<b>105.0</b>	41.088	41.088	41.088	41.088	41.088	41.088	41.088	41.088	41.088	41.088
<b>107.5</b>	39.956	39.956	39.956	39.956	39.956	39.956	39.956	39.956	39.956	39.956
<b>110.0</b>	38.710	38.710	38.710	38.710	38.710	38.710	38.710	38.710	38.710	38.710
<b>112.5</b>	36.439	36.439	36.439	36.439	36.439	36.439	36.439	36.439	36.439	36.439
<b>115.0</b>	34.078	34.078	34.078	34.078	34.078	34.078	34.078	34.078	34.078	34.078
<b>117.5</b>	31.207	31.207	31.207	31.207	31.207	31.207	31.207	31.207	31.207	31.207
<b>120.0</b>	28.171	28.171	28.171	28.171	28.171	28.171	28.171	28.171	28.171	28.171
<b>122.5</b>	24.465	24.465	24.465	24.465	24.465	24.465	24.465	24.465	24.465	24.465
<b>125.0</b>	20.756	20.756	20.756	20.756	20.756	20.756	20.756	20.756	20.756	20.756

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**CANDELA TABULATION - (Cont.)**

127.5	17.038	17.038	17.038	17.038	17.038	17.038	17.038	17.038	17.038	17.038
130.0	13.280	13.280	13.280	13.280	13.280	13.280	13.280	13.280	13.280	13.280
132.5	9.425	9.425	9.425	9.425	9.425	9.425	9.425	9.425	9.425	9.425
135.0	6.113	6.113	6.113	6.113	6.113	6.113	6.113	6.113	6.113	6.113
137.5	3.832	3.832	3.832	3.832	3.832	3.832	3.832	3.832	3.832	3.832
140.0	2.188	2.188	2.188	2.188	2.188	2.188	2.188	2.188	2.188	2.188
142.5	1.526	1.526	1.526	1.526	1.526	1.526	1.526	1.526	1.526	1.526
145.0	1.048	1.048	1.048	1.048	1.048	1.048	1.048	1.048	1.048	1.048
147.5	0.803	0.803	0.803	0.803	0.803	0.803	0.803	0.803	0.803	0.803
150.0	0.670	0.670	0.670	0.670	0.670	0.670	0.670	0.670	0.670	0.670
152.5	0.654	0.654	0.654	0.654	0.654	0.654	0.654	0.654	0.654	0.654
155.0	0.652	0.652	0.652	0.652	0.652	0.652	0.652	0.652	0.652	0.652
157.5	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664	0.664
160.0	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638	0.638
162.5	0.596	0.596	0.596	0.596	0.596	0.596	0.596	0.596	0.596	0.596
165.0	0.588	0.588	0.588	0.588	0.588	0.588	0.588	0.588	0.588	0.588
167.5	0.607	0.607	0.607	0.607	0.607	0.607	0.607	0.607	0.607	0.607
170.0	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644	0.644
172.5	0.622	0.622	0.622	0.622	0.622	0.622	0.622	0.622	0.622	0.622
175.0	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595
177.5	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613	0.613
180.0	0.566	0.566	0.566	0.566	0.566	0.566	0.566	0.566	0.566	0.566

**Vert. 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	222.891	222.891	222.891	222.891	222.891	222.891	222.891
2.5	222.745	222.745	222.745	222.745	222.745	222.745	222.745
5.0	216.528	216.528	216.528	216.528	216.528	216.528	216.528
7.5	210.021	210.021	210.021	210.021	210.021	210.021	210.021
10.0	199.870	199.870	199.870	199.870	199.870	199.870	199.870
12.5	189.067	189.067	189.067	189.067	189.067	189.067	189.067
15.0	173.575	173.575	173.575	173.575	173.575	173.575	173.575
17.5	158.565	158.565	158.565	158.565	158.565	158.565	158.565
20.0	145.891	145.891	145.891	145.891	145.891	145.891	145.891
22.5	134.006	134.006	134.006	134.006	134.006	134.006	134.006
25.0	124.914	124.914	124.914	124.914	124.914	124.914	124.914
27.5	117.021	117.021	117.021	117.021	117.021	117.021	117.021
30.0	112.395	112.395	112.395	112.395	112.395	112.395	112.395
32.5	108.868	108.868	108.868	108.868	108.868	108.868	108.868
35.0	107.709	107.709	107.709	107.709	107.709	107.709	107.709
37.5	106.534	106.534	106.534	106.534	106.534	106.534	106.534
40.0	105.336	105.336	105.336	105.336	105.336	105.336	105.336
42.5	103.646	103.646	103.646	103.646	103.646	103.646	103.646
45.0	101.266	101.266	101.266	101.266	101.266	101.266	101.266
47.5	97.761	97.761	97.761	97.761	97.761	97.761	97.761
50.0	92.956	92.956	92.956	92.956	92.956	92.956	92.956
52.5	87.449	87.449	87.449	87.449	87.449	87.449	87.449
55.0	81.279	81.279	81.279	81.279	81.279	81.279	81.279
57.5	75.128	75.128	75.128	75.128	75.128	75.128	75.128
60.0	68.991	68.991	68.991	68.991	68.991	68.991	68.991
62.5	62.711	62.711	62.711	62.711	62.711	62.711	62.711
65.0	56.338	56.338	56.338	56.338	56.338	56.338	56.338

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**CANDELA TABULATION - (Cont.)**

67.5	50.225	50.225	50.225	50.225	50.225	50.225	50.225
70.0	44.244	44.244	44.244	44.244	44.244	44.244	44.244
72.5	42.069	42.069	42.069	42.069	42.069	42.069	42.069
75.0	41.458	41.458	41.458	41.458	41.458	41.458	41.458
77.5	43.114	43.114	43.114	43.114	43.114	43.114	43.114
80.0	45.499	45.499	45.499	45.499	45.499	45.499	45.499
82.5	46.392	46.392	46.392	46.392	46.392	46.392	46.392
85.0	46.930	46.930	46.930	46.930	46.930	46.930	46.930
87.5	45.517	45.517	45.517	45.517	45.517	45.517	45.517
90.0	43.776	43.776	43.776	43.776	43.776	43.776	43.776
92.5	42.977	42.977	42.977	42.977	42.977	42.977	42.977
95.0	42.279	42.279	42.279	42.279	42.279	42.279	42.279
97.5	42.277	42.277	42.277	42.277	42.277	42.277	42.277
100.0	42.307	42.307	42.307	42.307	42.307	42.307	42.307
102.5	41.711	41.711	41.711	41.711	41.711	41.711	41.711
105.0	41.088	41.088	41.088	41.088	41.088	41.088	41.088
107.5	39.956	39.956	39.956	39.956	39.956	39.956	39.956
110.0	38.710	38.710	38.710	38.710	38.710	38.710	38.710
112.5	36.439	36.439	36.439	36.439	36.439	36.439	36.439
115.0	34.078	34.078	34.078	34.078	34.078	34.078	34.078
117.5	31.207	31.207	31.207	31.207	31.207	31.207	31.207
120.0	28.171	28.171	28.171	28.171	28.171	28.171	28.171
122.5	24.465	24.465	24.465	24.465	24.465	24.465	24.465
125.0	20.756	20.756	20.756	20.756	20.756	20.756	20.756
127.5	17.038	17.038	17.038	17.038	17.038	17.038	17.038
130.0	13.280	13.280	13.280	13.280	13.280	13.280	13.280
132.5	9.425	9.425	9.425	9.425	9.425	9.425	9.425
135.0	6.113	6.113	6.113	6.113	6.113	6.113	6.113
137.5	3.832	3.832	3.832	3.832	3.832	3.832	3.832
140.0	2.188	2.188	2.188	2.188	2.188	2.188	2.188
142.5	1.526	1.526	1.526	1.526	1.526	1.526	1.526
145.0	1.048	1.048	1.048	1.048	1.048	1.048	1.048
147.5	0.803	0.803	0.803	0.803	0.803	0.803	0.803
150.0	0.670	0.670	0.670	0.670	0.670	0.670	0.670
152.5	0.654	0.654	0.654	0.654	0.654	0.654	0.654
155.0	0.652	0.652	0.652	0.652	0.652	0.652	0.652
157.5	0.664	0.664	0.664	0.664	0.664	0.664	0.664
160.0	0.638	0.638	0.638	0.638	0.638	0.638	0.638
162.5	0.596	0.596	0.596	0.596	0.596	0.596	0.596
165.0	0.588	0.588	0.588	0.588	0.588	0.588	0.588
167.5	0.607	0.607	0.607	0.607	0.607	0.607	0.607
170.0	0.644	0.644	0.644	0.644	0.644	0.644	0.644
172.5	0.622	0.622	0.622	0.622	0.622	0.622	0.622
175.0	0.595	0.595	0.595	0.595	0.595	0.595	0.595
177.5	0.613	0.613	0.613	0.613	0.613	0.613	0.613
180.0	0.566	0.566	0.566	0.566	0.566	0.566	0.566

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00701\_1 ~ TA1610GV-15L35K-EX-FJ1-MB.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	68.55	N.A.	10.60
0-30	126.54	N.A.	19.60
0-40	194.31	N.A.	30.10
0-60	344.62	N.A.	53.50
0-80	445.89	N.A.	69.20
0-90	495.93	N.A.	76.90
10-90	475.75	N.A.	73.80
20-40	125.76	N.A.	19.50
20-50	203.43	N.A.	31.60
40-70	206.22	N.A.	32.00
60-80	101.27	N.A.	15.70
70-80	45.37	N.A.	7.00
80-90	50.04	N.A.	7.80
90-110	89.72	N.A.	13.90
90-120	123.33	N.A.	19.10
90-130	142.07	N.A.	22.00
90-150	148.21	N.A.	23.00
90-180	148.74	N.A.	23.10
110-180	59.02	N.A.	9.20
0-180	644.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	20.18
10-20	48.37
20-30	57.99
30-40	67.77
40-50	77.67
50-60	72.65
60-70	55.90
70-80	45.37
80-90	50.04
90-100	46.53
100-110	43.19
110-120	33.61
120-130	18.74
130-140	5.36
140-150	0.77
150-160	0.30
160-170	0.17
170-180	0.06

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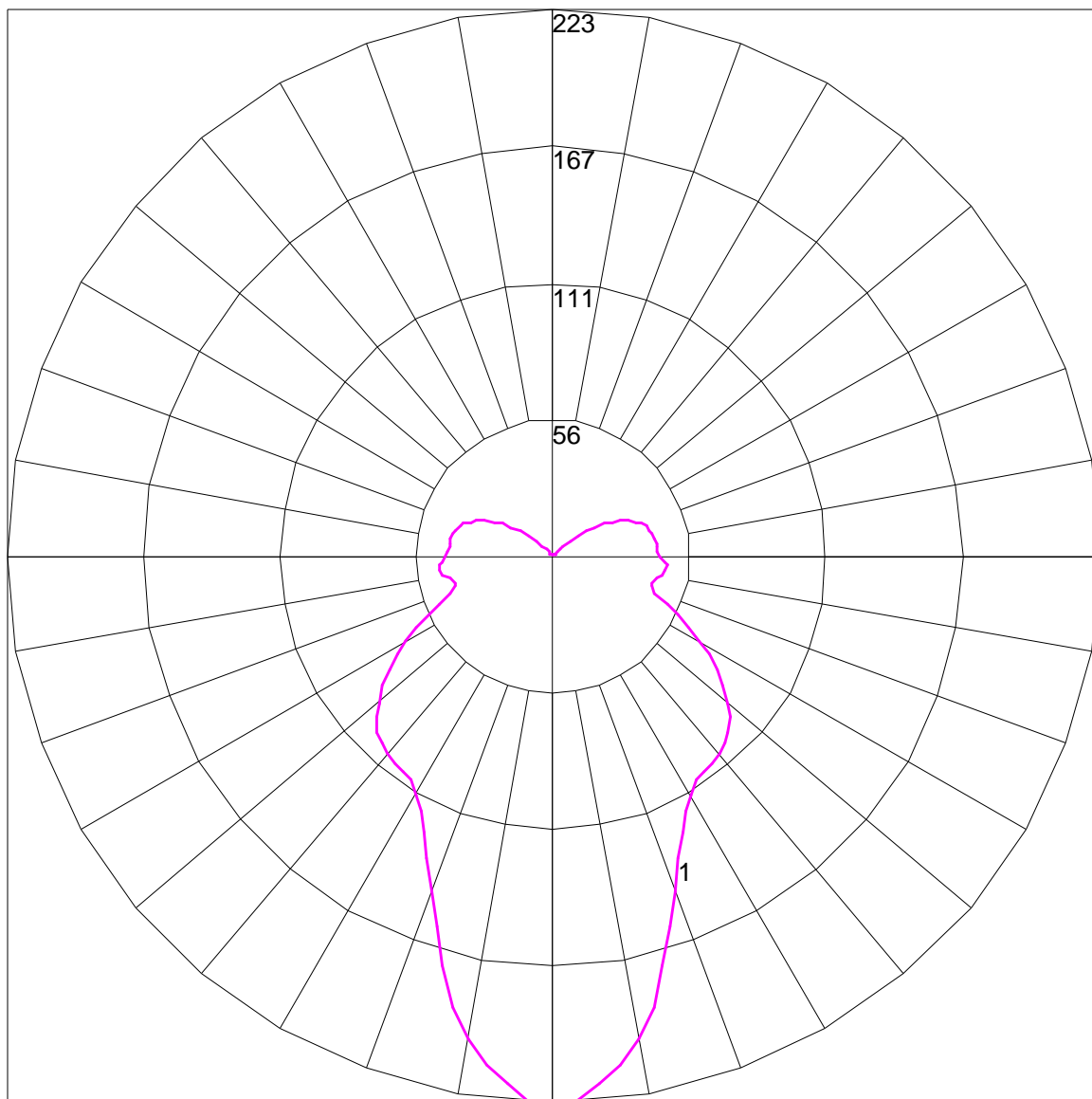
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	113	113	113	108	108	108	108	98	98	98	89	89	89	81	81	81	77
1	101	95	90	86	96	91	86	82	82	79	75	74	71	69	67	65	63	59
2	91	82	75	69	86	78	72	66	71	66	61	64	60	56	58	55	52	48
3	83	72	64	57	79	69	61	55	62	56	51	57	51	47	51	47	43	40
4	76	64	55	48	72	61	53	46	55	49	43	50	45	40	46	41	37	34
5	70	57	48	41	66	54	46	40	50	43	37	45	40	35	41	36	32	30
6	65	51	42	36	61	49	41	35	45	38	33	41	35	31	38	33	29	26
7	60	46	38	32	57	45	37	31	41	34	29	38	32	27	34	29	26	23
8	56	42	34	28	53	41	33	28	38	31	26	35	29	24	32	27	23	21
9	52	39	31	25	50	37	30	25	35	28	23	32	26	22	29	24	21	19
10	49	36	28	23	47	35	27	22	32	26	21	30	24	20	27	23	19	17

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00701\_1 ~ TA1610GV-15L35K-EX-FJ1-MB.IES

POLAR GRAPH



Maximum Candela = 222.891 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)