

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00625\_10 ~ SGE6BX60L-35KND-DO101-AR6BXMWWF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00625\_10\_M-60L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 6/7/2018

[UPDATE] 7/20/2018

[LUMCAT] SGE6BX-60L-35K-ND-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] 23.8 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	4744
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	44
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.40
Spacing Criterion (90-270)	0.42
Spacing Criterion (Diagonal)	0.42
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\_10 ~ SGE6BX60L-35KND-DO101-AR6BXMWWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10715	10883	11256
55	11820	11702	12078
65	12820	12733	12667
75	9079	8292	9022
85	2354	2282	2037

# 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	18310.60418310.60418310.60418310.60418310.60418310.60418310.60418310.60418310.60418310.60418310.604									
2.5	18163.93117713.88218043.80617759.70217884.86017800.84117833.11917659.15517973.89317702.763									
5.0	16288.80716610.02916356.15016824.43916494.03716504.12116257.85116333.41116151.40616527.956									
7.5	14271.39414045.68914338.33514100.32614298.17714028.81814186.06913907.71914170.71713955.317									
10.0	11249.69511171.06511234.92011253.47911195.43111345.66011186.65311313.17711192.55811312.744									
12.5	8190.877 8561.445 8386.729 8513.132 8472.130 8379.220 8492.681 8472.943 8373.915 8487.171									
15.0	6321.735 5996.365 6247.964 5779.582 6125.796 6090.997 6289.585 6203.213 6324.123 6098.634									
17.5	4489.012 4653.880 4469.773 4549.815 4503.449 4604.924 4587.958 4653.015 4507.236 4676.468									
20.0	3646.317 3460.835 3534.868 3344.606 3506.406 3506.071 3583.099 3503.753 3583.932 3518.232									
22.5	2820.651 2831.251 2724.087 2777.855 2753.745 2811.014 2753.736 2800.099 2737.763 2866.022									
25.0	2237.540 2246.685 2160.314 2204.798 2186.990 2143.988 2138.969 2120.188 2138.379 2218.163									
27.5	1653.432 1594.588 1580.946 1545.879 1579.834 1502.380 1527.199 1463.221 1541.117 1577.476									
30.0	1060.050 939.486 974.543 918.079 946.065 975.560 918.617 923.916 949.501 1014.773									
32.5	519.602 590.289 522.026 560.266 553.854 539.155 509.045 483.446 479.898 563.067									
35.0	327.498 251.323 299.605 244.081 298.811 294.590 283.359 249.797 284.432 272.250									
37.5	163.737 193.048 164.857 187.302 189.185 182.917 168.478 169.101 151.588 182.879									
40.0	145.196 138.049 145.316 139.669 151.444 138.925 143.843 134.694 140.642 134.968									
42.5	129.861 135.674 133.178 136.802 137.654 135.421 132.550 129.908 132.480 132.157									
45.0	127.492 132.863 129.487 133.024 133.928 131.874 130.680 127.131 128.975 128.728									
47.5	125.121 125.840 125.029 125.716 128.309 128.302 127.038 125.463 124.587 124.714									
50.0	122.748 119.369 119.812 119.434 122.022 123.996 122.316 122.134 118.905 121.729									
52.5	119.555 116.635 115.837 116.408 118.834 119.362 118.128 118.009 114.474 119.600									
55.0	114.084 113.547 112.947 113.199 116.569 116.228 114.225 113.789 111.633 116.188									
57.5	109.109 108.599 109.854 109.496 110.901 113.659 108.871 109.532 108.127 111.848									
60.0	105.296 103.208 106.605 104.790 104.413 107.307 102.856 105.435 103.891 105.205									
62.5	99.853 95.989 99.760 97.810 97.304 99.751 96.655 101.394 98.314 97.123									
65.0	91.166 87.671 90.549 88.819 90.077 91.183 90.380 90.194 91.432 89.487									
67.5	80.392 76.165 78.076 76.405 78.530 82.354 77.933 76.948 81.661 82.094									
70.0	66.738 63.475 64.105 62.755 66.277 67.138 63.708 64.995 69.687 70.037									
72.5	52.969 49.278 49.625 48.132 52.169 52.017 51.505 53.084 56.278 56.284									
75.0	39.541 36.322 36.115 37.197 39.294 42.310 39.078 39.974 42.580 43.765									
77.5	29.996 25.675 24.509 25.924 27.425 30.569 25.935 29.030 30.291 32.310									
80.0	18.305 18.175 14.517 15.320 15.750 18.461 16.822 19.895 18.029 22.396									
82.5	8.643 8.488 8.075 8.313 6.984 10.458 8.988 10.847 9.017 10.849									
85.0	3.453 2.363 3.346 2.830 2.988 3.640 4.578 4.671 4.861 3.972									
87.5	1.662 0.808 1.018 0.872 1.261 2.019 1.047 1.252 1.836 1.773									
90.0	0.000 0.000 0.000 0.000 0.000 0.839 0.711 0.891 0.933 0.709									
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	18310.604	18310.604	18310.604	18310.604	18310.604	18310.604	18310.604
2.5	18034.807	17730.183	17876.735	17719.575	17974.623	17745.469	18163.931
5.0	16240.798	16688.726	16320.347	16435.623	16301.961	16506.669	16288.807
7.5	14133.796	13994.800	13986.531	14036.425	14055.045	14090.704	14271.394
10.0	11203.380	11285.506	11244.200	11107.658	11245.317	11155.569	11249.695
12.5	8147.800	8498.723	8262.955	8545.379	8250.575	8590.310	8190.877
15.0	6243.327	6005.092	6190.194	6130.639	6270.019	6162.652	6321.735
17.5	4462.540	4681.287	4573.199	4680.743	4568.904	4721.804	4489.012
20.0	3613.437	3518.148	3582.824	3562.232	3648.502	3592.147	3646.317
22.5	2826.018	2887.571	2859.909	2875.217	2900.733	2911.704	2820.651
25.0	2212.471	2249.563	2205.717	2310.417	2284.953	2346.964	2237.540
27.5	1604.594	1591.122	1576.656	1666.914	1692.410	1700.159	1653.432
30.0	1034.646	1007.153	1031.018	1005.028	1111.700	1036.134	1060.050
32.5	480.449	595.607	510.697	611.007	532.524	637.964	519.602
35.0	314.004	290.313	300.105	265.900	330.410	282.534	327.498
37.5	158.443	197.837	165.930	185.746	161.011	196.746	163.737
40.0	146.320	137.999	141.172	141.542	145.029	142.111	145.196
42.5	135.070	134.227	138.274	133.890	136.858	134.658	129.861
45.0	131.228	130.312	131.752	129.769	132.668	130.875	127.492
47.5	127.381	126.184	124.680	126.564	128.540	127.945	125.121
50.0	123.498	122.292	121.379	123.409	124.757	125.048	122.748
52.5	119.570	118.709	118.481	120.297	121.068	120.855	119.555
55.0	115.425	116.342	112.900	117.156	119.070	116.673	114.084
57.5	111.196	115.351	107.132	111.653	116.647	112.910	109.109
60.0	106.644	111.298	104.346	106.101	109.804	108.920	105.296
62.5	101.245	104.234	101.648	99.552	102.640	101.614	99.853
65.0	93.135	94.161	92.443	92.465	93.193	93.469	91.166

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00625\_10 ~ SGE6BX60L-35KND-DO101-AR6BXMWWF.IES****CANDELA TABULATION - (Cont.)**

67.5	83.587	81.477	82.946	80.739	82.667	79.346	80.392
70.0	70.695	68.457	69.363	68.671	68.160	65.671	66.738
72.5	57.434	55.230	55.942	55.698	54.217	53.046	52.969
75.0	43.787	42.676	42.972	42.571	40.924	41.581	39.541
77.5	32.599	31.514	31.019	29.960	30.481	30.580	29.996
80.0	21.439	23.810	20.009	20.170	20.753	19.129	18.305
82.5	10.822	12.635	10.394	10.561	11.547	9.019	8.643
85.0	5.502	5.189	3.998	5.756	4.659	3.659	3.453
87.5	2.440	2.506	1.104	1.560	1.594	1.274	1.662
90.0	0.751	0.617	0.559	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\_10 ~ SGE6BX60L-35KND-DO101-AR6BXMWWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3169.32	N.A.	66.80
0-30	4163.75	N.A.	87.80
0-40	4400.78	N.A.	92.80
0-60	4604.57	N.A.	97.10
0-80	4736.77	N.A.	99.90
0-90	4743.56	N.A.	100.00
10-90	3344.42	N.A.	70.50
20-40	1231.46	N.A.	26.00
20-50	1332.56	N.A.	28.10
40-70	292.25	N.A.	6.20
60-80	132.20	N.A.	2.80
70-80	43.75	N.A.	0.90
80-90	6.79	N.A.	0.10
90-110	0.05	N.A.	0.00
90-120	0.05	N.A.	0.00
90-130	0.05	N.A.	0.00
90-150	0.05	N.A.	0.00
90-180	0.05	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4743.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1399.14
10-20	1770.18
20-30	994.43
30-40	237.03
40-50	101.10
50-60	102.69
60-70	88.45
70-80	43.75
80-90	6.79
90-100	0.05
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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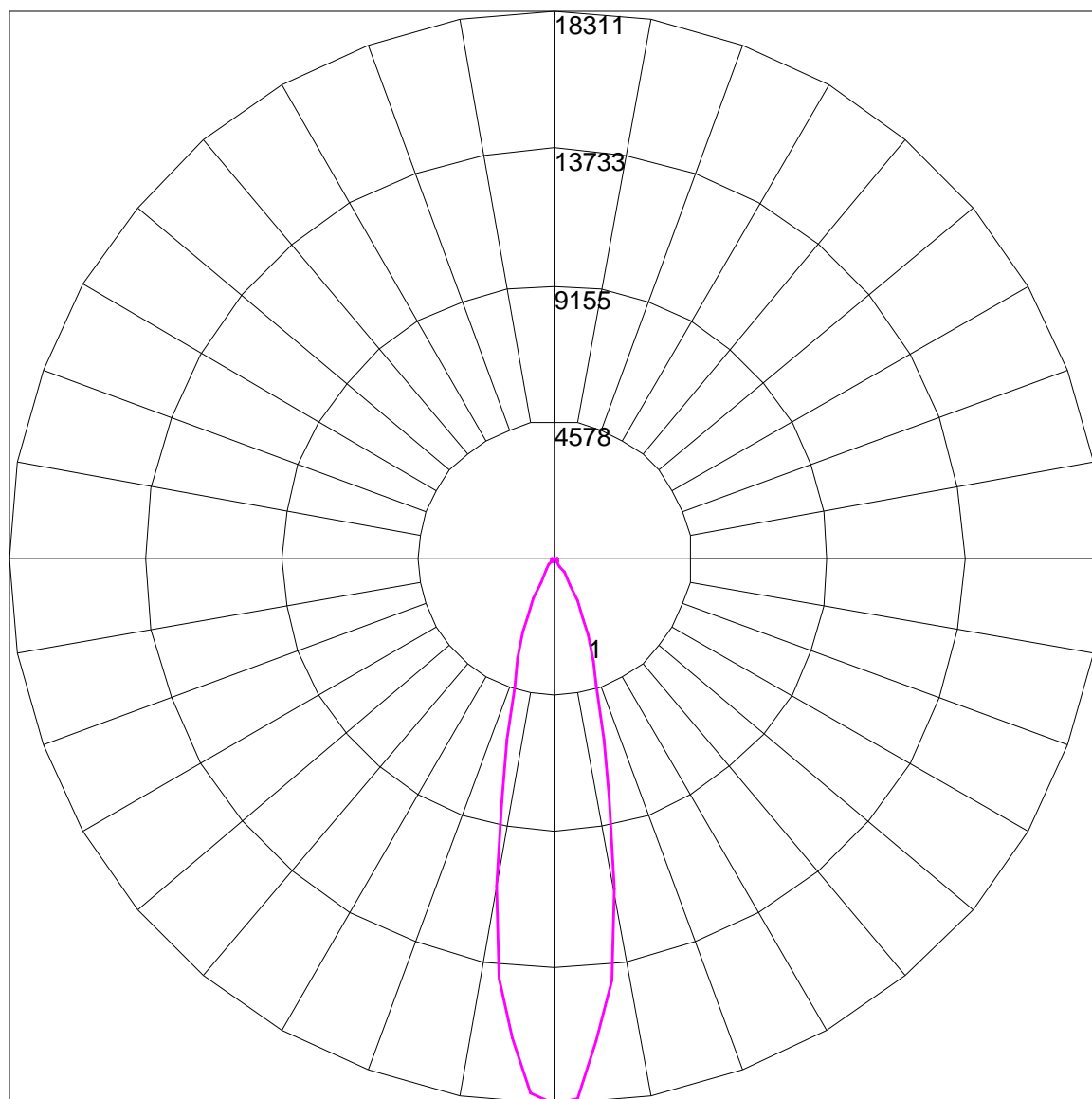
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	108	106	106	104	103	102	101	99	98	98	97	95
2	110	105	102	99	107	104	100	98	100	98	96	98	95	94	95	93	92	90
3	105	100	96	92	103	98	95	91	96	93	90	94	91	89	91	89	87	86
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82
5	98	91	86	82	96	90	85	82	88	84	81	87	83	81	85	82	80	79
6	94	87	82	79	93	86	82	78	85	81	78	84	80	77	82	79	77	76
7	91	84	79	75	90	83	78	75	82	78	75	81	77	74	80	77	74	73
8	88	81	76	73	87	80	76	72	79	75	72	78	75	72	77	74	72	70
9	85	78	73	70	84	77	73	70	77	72	70	76	72	69	75	72	69	68
10	83	75	71	68	82	75	70	68	74	70	67	73	70	67	73	69	67	66

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POLAR GRAPH



Maximum Candela = 18310.604 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)