

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_8 ~ SGE6BX80L-35KMD-DO101-AR6BXMWWF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00625_8
[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 6/7/2018
[UPDATE] 7/12/2018
[LUMCAT] SGE6BX-80L-35K-MD-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] 36.4 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	6233
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	60
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.60
Spacing Criterion (90-270)	0.60
Spacing Criterion (Diagonal)	0.62
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_8 ~ SGE6BX80L-35KMD-DO101-AR6BXMWWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12349	12444	12522
55	14087	13537	13907
65	14036	13690	14127
75	10321	8742	10360
85	3087	2306	2399

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	15190.100	15190.100	15190.100	15190.100	15190.100	15190.100	15190.100	15190.100	15190.100	15190.100
2.5	15103.220	14950.200	15161.740	14924.590	15008.530	14883.790	14984.980	14824.150	14972.180	14879.240
5.0	14318.640	14346.860	14252.790	14299.000	14166.470	14125.270	14057.360	14201.790	14144.400	14280.840
7.5	13322.260	13275.310	13312.820	13216.510	13190.990	13081.380	13109.270	13137.630	13211.860	13239.730
10.0	12073.650	12037.850	12005.110	11991.890	11947.820	11889.490	11891.080	12001.170	12016.140	12102.690
12.5	10766.050	10706.730	10695.160	10659.040	10658.440	10624.210	10667.290	10719.310	10769.980	10792.680
15.0	9389.479	9347.826	9320.313	9297.791	9287.608	9282.889	9314.246	9390.905	9413.646	9431.167
17.5	8000.096	7974.111	7946.518	7911.350	7906.020	7908.656	7956.604	7980.286	8025.034	7987.785
20.0	6645.813	6596.787	6588.383	6519.565	6507.953	6528.849	6541.786	6582.922	6575.662	6570.740
22.5	5296.649	5281.611	5237.299	5235.896	5151.040	5146.989	5130.658	5205.917	5158.592	5190.207
25.0	3960.943	3978.848	3952.899	3970.661	3849.169	3791.066	3750.231	3829.494	3794.253	3809.170
27.5	2626.639	2690.405	2690.130	2678.325	2599.933	2443.167	2415.129	2453.854	2507.690	2427.526
30.0	1571.165	1404.169	1574.007	1382.544	1413.198	1439.454	1366.310	1369.286	1333.409	1355.993
32.5	533.953	783.263	596.986	778.426	651.272	525.542	466.406	631.110	563.216	618.649
35.0	335.571	236.818	361.853	234.331	331.385	278.184	295.668	227.729	302.888	231.060
37.5	165.153	179.870	170.036	183.869	172.823	171.252	158.197	173.482	160.688	173.877
40.0	157.740	160.502	161.928	159.662	161.415	154.009	151.746	145.513	149.030	147.320
42.5	150.458	155.520	154.243	153.964	153.708	151.501	146.083	141.564	143.003	146.478
45.0	146.941	151.111	148.064	148.628	148.999	148.210	143.036	138.512	142.509	143.318
47.5	143.579	149.504	142.636	145.315	145.799	144.821	139.889	136.189	139.412	138.454
50.0	142.500	147.759	139.428	141.935	143.669	139.035	136.464	134.237	134.072	132.763
52.5	141.038	139.726	135.697	137.116	139.559	133.043	132.290	132.549	128.460	126.543
55.0	135.963	131.819	130.657	132.148	134.227	126.889	126.314	127.369	122.641	121.587
57.5	130.283	126.012	125.323	125.410	126.923	120.727	120.679	119.994	116.829	117.347
60.0	120.512	120.031	119.352	118.801	118.546	116.042	115.744	111.891	111.023	111.955
62.5	110.583	112.195	110.783	113.222	109.629	111.265	109.092	103.390	103.434	105.999
65.0	99.817	103.196	97.355	105.927	100.460	99.466	99.389	93.583	94.808	96.463
67.5	87.811	87.351	84.365	90.253	85.669	87.352	87.605	83.164	83.748	85.429
70.0	72.138	71.950	71.940	73.751	69.137	72.225	73.022	70.401	71.576	71.742
72.5	57.856	57.456	55.604	55.790	58.237	57.099	56.960	56.883	56.592	57.353
75.0	44.948	43.322	38.073	40.333	45.121	41.977	40.283	41.164	41.506	42.831
77.5	27.573	30.033	26.222	28.428	28.969	29.888	31.218	28.275	27.538	31.205
80.0	17.437	18.788	16.520	22.264	17.567	19.517	19.592	18.485	18.983	22.338
82.5	11.383	7.774	8.924	10.578	12.588	10.631	8.645	8.196	11.760	9.262
85.0	4.527	3.215	3.382	5.404	3.518	3.995	3.077	3.525	5.233	5.462
87.5	2.280	1.709	1.825	1.029	1.738	1.601	1.486	1.818	1.808	1.997
90.0	0.000	0.000	0.000	0.000	0.000	0.940	1.705	1.182	0.645	1.153
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	15190.100	15190.100	15190.100	15190.100	15190.100	15190.100	15190.100
2.5	15085.780	14906.950	15043.440	15008.380	15167.770	14953.510	15103.220
5.0	14200.140	14323.950	14288.070	14261.230	14294.430	14381.230	14318.640
7.5	13282.990	13258.900	13300.190	13307.330	13386.560	13321.800	13322.260
10.0	12064.610	12102.720	12067.710	12075.540	12097.260	12111.110	12073.650
12.5	10820.240	10763.530	10759.050	10760.480	10792.590	10758.060	10766.050
15.0	9398.215	9380.674	9349.007	9347.475	9370.663	9368.523	9389.479
17.5	7971.593	7921.965	7912.891	7921.058	7952.354	7976.518	8000.096
20.0	6520.274	6487.405	6500.437	6480.613	6554.754	6584.001	6645.813
22.5	5080.828	5089.331	5093.008	5114.235	5176.280	5260.477	5296.649
25.0	3692.034	3709.213	3723.853	3815.743	3886.031	3948.348	3960.943
27.5	2375.096	2353.131	2361.048	2560.377	2629.888	2659.529	2626.639
30.0	1314.086	1298.179	1383.002	1339.635	1501.219	1373.558	1571.165
32.5	474.018	595.992	452.219	635.453	585.055	767.047	533.953
35.0	289.336	217.929	273.065	299.185	340.270	219.220	335.571
37.5	155.601	172.630	159.313	163.384	161.129	175.445	165.153
40.0	149.661	149.796	149.515	152.053	156.507	156.303	157.740
42.5	145.028	147.470	144.861	146.665	152.458	153.318	150.458
45.0	143.241	144.417	143.578	144.479	149.706	150.531	146.941
47.5	139.573	140.782	142.271	141.625	145.903	146.088	143.579
50.0	132.372	135.280	136.169	138.455	140.019	141.675	142.500
52.5	126.486	128.471	130.076	134.334	135.040	137.828	141.038
55.0	122.747	123.112	124.149	129.828	131.613	133.642	135.963
57.5	118.076	118.647	118.334	123.660	126.161	125.624	130.283
60.0	112.059	113.878	113.792	116.925	117.690	118.027	120.512
62.5	104.837	108.945	108.655	108.172	108.897	113.809	110.583
65.0	96.095	99.401	98.722	98.833	99.678	107.746	99.817

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_8 ~ SGE6BX80L-35KMD-DO101-AR6BXMWWF.IES****CANDELA TABULATION - (Cont.)**

67.5	86.750	87.690	87.943	87.935	88.197	92.483	87.811
70.0	76.808	74.824	73.165	76.380	74.515	76.223	72.138
72.5	60.578	61.592	58.979	56.565	59.319	58.049	57.856
75.0	42.011	45.369	45.811	40.386	44.402	43.716	44.948
77.5	31.074	30.691	33.269	28.972	34.871	31.239	27.573
80.0	19.950	18.356	21.220	18.304	23.567	19.415	17.437
82.5	11.351	12.617	10.215	9.386	11.958	12.099	11.383
85.0	7.111	6.279	4.782	4.136	4.945	4.601	4.527
87.5	2.279	3.025	1.985	1.715	2.117	1.550	2.280
90.0	1.295	1.119	0.941	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_8 ~ SGE6BX80L-35KMD-DO101-AR6BXMWWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3855.61	N.A.	61.90
0-30	5581.46	N.A.	89.50
0-40	5855.27	N.A.	93.90
0-60	6082.78	N.A.	97.60
0-80	6225.81	N.A.	99.90
0-90	6233.13	N.A.	100.00
10-90	4943.47	N.A.	79.30
20-40	1999.67	N.A.	32.10
20-50	2112.57	N.A.	33.90
40-70	324.02	N.A.	5.20
60-80	143.03	N.A.	2.30
70-80	46.51	N.A.	0.70
80-90	7.33	N.A.	0.10
90-110	0.08	N.A.	0.00
90-120	0.08	N.A.	0.00
90-130	0.08	N.A.	0.00
90-150	0.08	N.A.	0.00
90-180	0.08	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	6233.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1289.66
10-20	2565.94
20-30	1725.85
30-40	273.82
40-50	112.90
50-60	114.60
60-70	96.52
70-80	46.51
80-90	7.33
90-100	0.08
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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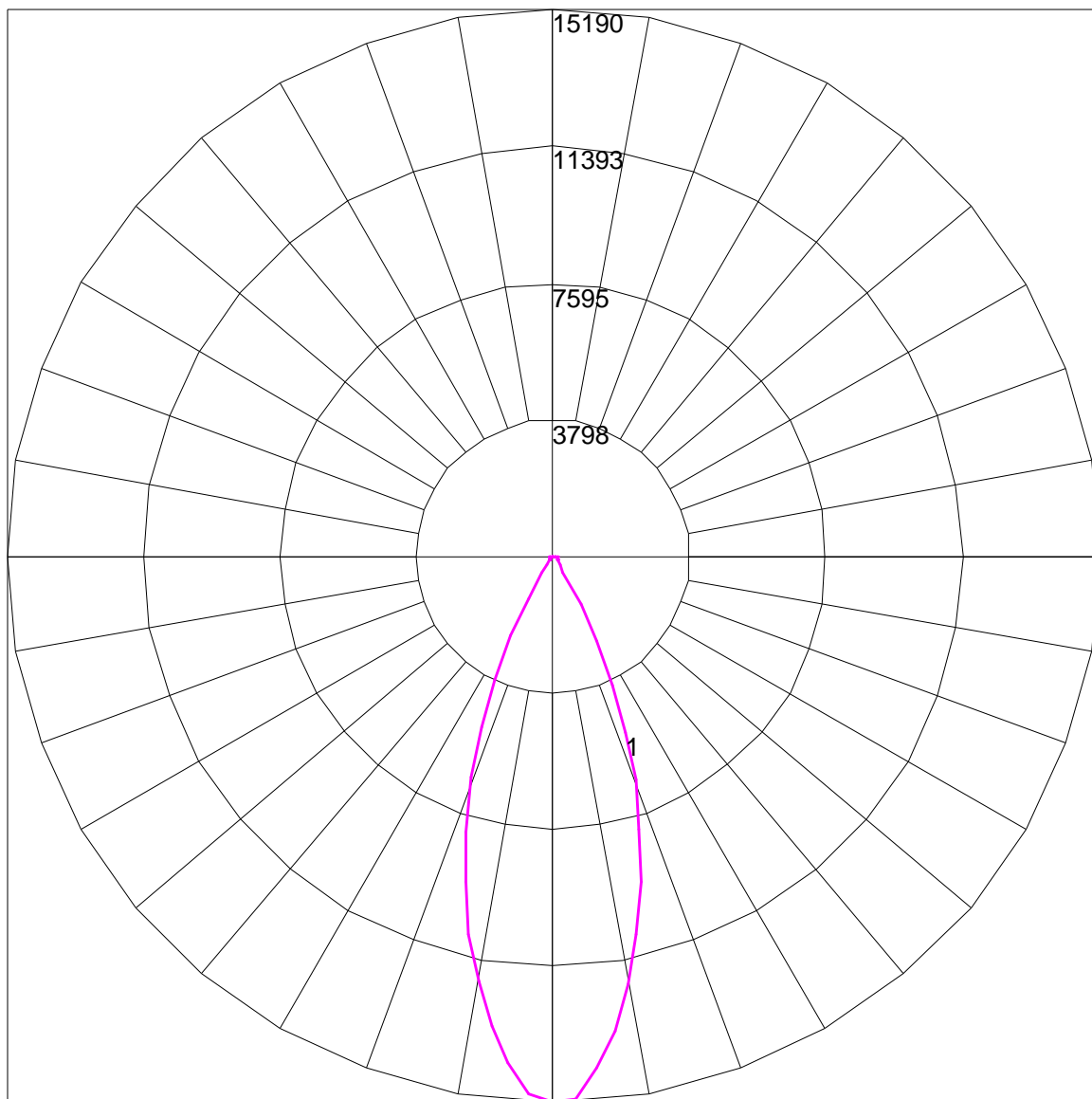
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	90
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	88	86	85
4	101	94	89	86	99	93	89	85	91	87	84	89	86	83	87	84	82	81
5	97	90	85	81	95	89	84	80	87	83	80	85	82	79	84	81	78	77
6	93	85	80	77	92	85	80	76	83	79	76	82	78	75	81	78	75	74
7	90	82	77	73	88	81	76	73	80	76	73	79	75	72	78	74	72	71
8	86	78	73	70	85	78	73	70	77	73	69	76	72	69	75	72	69	68
9	83	75	70	67	82	75	70	67	74	70	67	73	69	66	72	69	66	65
10	80	72	68	64	80	72	67	64	71	67	64	71	67	64	70	66	64	63

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00625_8 ~ SGE6BX80L-35KMD-DO101-AR6BXMWWF.IES

POLAR GRAPH



Maximum Candela = 15190.1 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)