

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_10 ~ SGE6BX70L-35KND-DO101-AR6BXMWWF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00625_10_M-70L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 6/7/2018

[UPDATE] 7/20/2018

[LUMCAT] SGE6BX-70L-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	5393
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	51
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 ~ SGE6BX70L-35KND-DO101-AR6BXMWWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12181	12372	12796
55	13438	13304	13730
65	14574	14475	14400
75	10321	9427	10257
85	2676	2594	2316

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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	20816.266	20816.266	20816.266	20816.266	20816.266	20816.266	20816.266	20816.266	20816.266	20816.266
2.5	20649.523	20137.888	20512.959	20189.978	20332.263	20236.747	20273.442	20075.671	20433.479	20125.247
5.0	18517.802	18882.981	18594.360	19126.731	18751.116	18762.580	18482.611	18568.510	18361.599	18789.677
7.5	16224.322	15967.731	16300.423	16029.845	16254.770	15948.551	16127.322	15810.882	16109.868	15864.993
10.0	12789.127	12699.738	12772.331	12793.430	12727.437	12898.224	12717.458	12861.297	12724.172	12860.804
12.5	9311.734	9733.012	9534.387	9678.088	9631.475	9525.851	9654.837	9632.399	9519.820	9648.573
15.0	7186.814	6816.920	7102.949	6570.472	6964.063	6924.502	7150.265	7052.074	7189.530	6933.185
17.5	5103.298	5290.727	5081.426	5172.422	5119.711	5235.071	5215.784	5289.743	5124.016	5316.406
20.0	4145.286	3934.423	4018.587	3802.290	3986.230	3985.850	4073.418	3983.215	4074.365	3999.675
22.5	3206.635	3218.685	3096.857	3157.983	3130.574	3195.679	3130.563	3183.271	3112.405	3258.214
25.0	2543.730	2554.126	2455.936	2506.507	2486.263	2437.376	2431.670	2410.319	2431.000	2521.702
27.5	1879.692	1812.795	1797.286	1757.420	1796.022	1707.969	1736.185	1663.451	1752.006	1793.341
30.0	1205.109	1068.047	1107.902	1043.711	1075.527	1109.058	1044.323	1050.347	1079.432	1153.636
32.5	590.706	671.065	593.461	636.934	629.644	612.935	578.704	549.602	545.568	640.119
35.0	372.314	285.714	340.603	277.481	339.701	334.903	322.135	283.980	323.355	309.506
37.5	186.144	219.465	187.416	212.933	215.074	207.948	191.533	192.241	172.332	207.904
40.0	165.065	156.940	165.201	158.782	172.168	157.936	163.527	153.126	159.888	153.437
42.5	147.632	154.240	151.402	155.522	156.491	153.953	150.689	147.684	150.609	150.242
45.0	144.938	151.044	147.206	151.228	152.255	149.920	148.562	144.528	146.624	146.343
47.5	142.243	143.060	142.138	142.919	145.867	145.860	144.422	142.632	141.636	141.781
50.0	139.545	135.703	136.208	135.778	138.720	140.963	139.054	138.847	135.176	138.387
52.5	135.915	132.595	131.688	132.338	135.095	135.696	134.293	134.158	130.139	135.967
55.0	129.695	129.085	128.403	128.689	132.520	132.133	129.856	129.361	126.909	132.087
57.5	124.039	123.460	124.887	124.480	126.077	129.212	123.769	124.521	122.924	127.153
60.0	119.705	117.331	121.193	119.130	118.701	121.992	116.931	119.863	118.108	119.602
62.5	113.518	109.124	113.411	111.194	110.619	113.401	109.881	115.269	111.767	110.414
65.0	103.641	99.668	102.940	100.973	102.404	103.661	102.748	102.536	103.944	101.733
67.5	91.393	86.587	88.760	86.861	89.276	93.623	88.598	87.477	92.836	93.328
70.0	75.870	72.161	72.878	71.343	75.347	76.325	72.426	73.889	79.223	79.621
72.5	60.217	56.022	56.416	54.719	59.308	59.136	58.553	60.349	63.979	63.986
75.0	44.951	41.292	41.057	42.287	44.671	48.100	44.426	45.444	48.406	49.754
77.5	34.100	29.189	27.863	29.472	31.178	34.753	29.484	33.003	34.436	36.731
80.0	20.809	20.662	16.503	17.417	17.906	20.987	19.124	22.617	20.496	25.460
82.5	9.825	9.649	9.180	9.450	7.939	11.889	10.218	12.331	10.250	12.334
85.0	3.925	2.686	3.804	3.218	3.396	4.139	5.205	5.310	5.526	4.515
87.5	1.890	0.918	1.157	0.991	1.433	2.296	1.190	1.423	2.087	2.016
90.0	0.000	0.000	0.000	0.000	0.000	0.954	0.809	1.013	1.060	0.806
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	20816.266	20816.266	20816.266	20816.266	20816.266	20816.266	20816.266
2.5	20502.729	20156.420	20323.026	20144.359	20434.309	20173.797	20649.523
5.0	18463.223	18972.447	18553.658	18684.709	18532.756	18765.477	18517.802
7.5	16067.895	15909.879	15900.478	15957.199	15978.367	16018.906	16224.322
10.0	12736.475	12829.839	12782.880	12627.654	12784.150	12682.121	12789.127
12.5	9262.763	9661.706	9393.676	9714.747	9379.602	9765.827	9311.734
15.0	7097.677	6826.842	7037.273	6969.569	7128.022	7005.963	7186.814
17.5	5073.203	5321.884	5199.005	5321.266	5194.123	5367.946	5103.298
20.0	4107.908	3999.579	4073.105	4049.696	4147.770	4083.704	4145.286
22.5	3212.737	3282.712	3251.265	3268.668	3297.676	3310.148	3206.635
25.0	2515.230	2557.398	2507.552	2626.580	2597.631	2668.127	2543.730
27.5	1824.170	1808.855	1792.410	1895.018	1924.003	1932.812	1879.692
30.0	1176.229	1144.974	1172.104	1142.558	1263.827	1177.921	1205.109
32.5	546.195	677.111	580.582	694.619	605.395	725.264	590.706
35.0	356.973	330.040	341.172	302.287	375.624	321.196	372.314
37.5	180.125	224.910	188.636	211.164	183.044	223.669	186.144
40.0	166.342	156.883	160.491	160.911	164.875	161.558	165.065
42.5	153.554	152.595	157.196	152.212	155.586	153.084	147.632
45.0	149.186	148.144	149.781	147.527	150.822	148.784	144.938
47.5	144.812	143.451	141.742	143.883	146.130	145.454	142.243
50.0	140.398	139.027	137.989	140.296	141.829	142.160	139.545
52.5	135.932	134.953	134.694	136.759	137.635	137.393	135.915
55.0	131.220	132.263	128.350	133.187	135.364	132.639	129.695
57.5	126.412	131.136	121.792	126.932	132.609	128.361	124.039
60.0	121.237	126.528	118.625	120.620	124.830	123.825	119.705
62.5	115.099	118.498	115.558	113.175	116.686	115.519	113.518
65.0	105.880	107.046	105.094	105.118	105.945	106.260	103.641

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_10 ~ SGE6BX70L-35KND-DO101-AR6BXMWWF.IES****CANDELA TABULATION - (Cont.)**

67.5	95.025	92.627	94.297	91.788	93.979	90.203	91.393
70.0	80.369	77.825	78.855	78.068	77.487	74.657	75.870
72.5	65.293	62.788	63.597	63.320	61.636	60.305	60.217
75.0	49.778	48.516	48.852	48.397	46.524	47.271	44.951
77.5	37.060	35.827	35.264	34.060	34.652	34.765	34.100
80.0	24.373	27.068	22.747	22.931	23.592	21.747	20.809
82.5	12.302	14.364	11.816	12.006	13.128	10.253	9.825
85.0	6.255	5.899	4.545	6.544	5.296	4.159	3.925
87.5	2.774	2.849	1.255	1.774	1.812	1.448	1.890
90.0	0.854	0.702	0.635	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 ~ SGE6BX70L-35KND-DO101-AR6BXMWWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3603.02	N.A.	66.80
0-30	4733.53	N.A.	87.80
0-40	5002.99	N.A.	92.80
0-60	5234.67	N.A.	97.10
0-80	5384.96	N.A.	99.90
0-90	5392.68	N.A.	100.00
10-90	3802.08	N.A.	70.50
20-40	1399.98	N.A.	26.00
20-50	1514.91	N.A.	28.10
40-70	332.24	N.A.	6.20
60-80	150.29	N.A.	2.80
70-80	49.73	N.A.	0.90
80-90	7.72	N.A.	0.10
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	5392.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1590.6
10-20	2012.42
20-30	1130.51
30-40	269.46
40-50	114.93
50-60	116.74
60-70	100.56
70-80	49.73
80-90	7.72
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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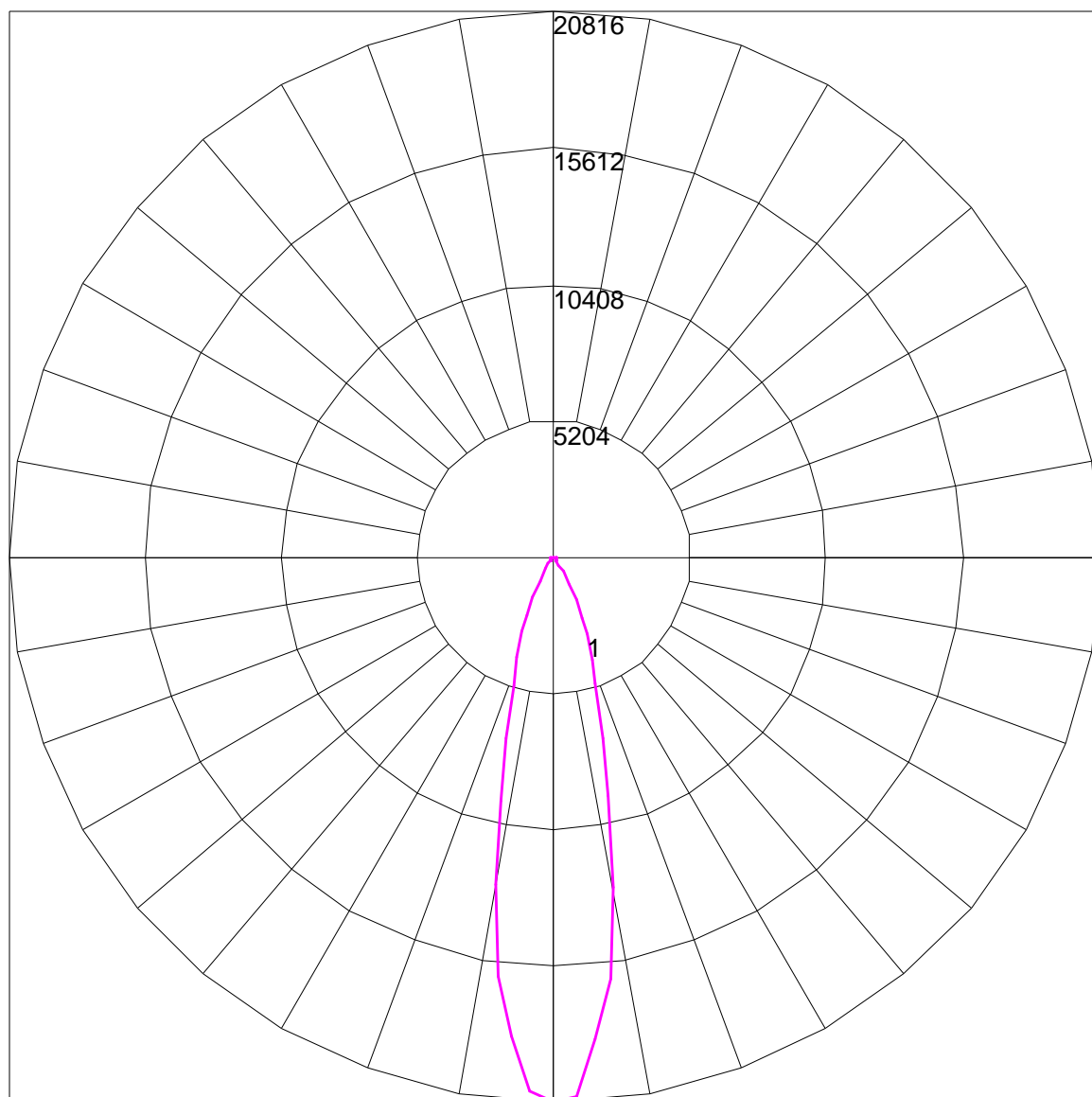
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00625_10 ~ SGE6BX70L-35KND-DO101-AR6BXMWWF.IES

POLAR GRAPH



Maximum Candela = 20816.266 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)