

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00381\_1 ~ SV1411GV-15L35K-TF2-MWI.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00381\_1\_M-15L  
 [TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 4/20/2018  
 [UPDATE] 7/5/2018  
 [LUMCAT] SV1411GV-15L-35K-EX-TF2-MWI  
 [LUMINAIRE] Nom. 14" diam x 11.4" H, classic bell shape  
 [OTHER] Regressed, 6" diam. low profile frosted glass diffuser  
 [OTHER] Reflector: Matte White interior finish  
 [OTHER] Beam Angle: 99.5 degrees  
 [LAMP] N/A, Gen3  
 [LAMPCAT] N/A  
 [OTHER] Total Luminaire Watts is approximate  
 [OTHER] CCT Multipliers: 27K x 0.971, 30K x 0.985, 40K x 1.03  
 [OTHER] This report generated by Spectrum Lighting, scaled from 55L  
 [\_CRI]85+

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1091
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.24 ft (Diameter)
Luminous Width (90-270)	1.24 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00381\_1 ~ SV1411GV-15L35K-TF2-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3914	3951	3990
55	2612	2533	2551
65	1199	1190	1191
75	851	870	889
85	617	615	636

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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>	507.569	507.569	507.569	507.569	507.569	507.569	507.569	507.569	507.569	507.569
<b>2.5</b>	504.678	505.773	506.104	506.808	507.718	507.145	507.080	506.983	506.671	506.203
<b>5.0</b>	501.350	503.347	503.408	505.479	506.570	506.367	505.966	505.552	505.689	504.131
<b>7.5</b>	494.431	496.828	497.985	500.688	501.636	501.460	502.172	501.862	500.952	498.683
<b>10.0</b>	486.931	490.004	491.049	495.498	496.084	496.238	497.602	496.643	495.964	492.694
<b>12.5</b>	477.492	480.338	482.181	486.743	488.345	488.295	490.548	489.167	487.452	483.715
<b>15.0</b>	467.241	470.271	471.983	477.777	479.909	479.898	482.603	480.420	478.727	474.268
<b>17.5</b>	455.002	458.151	460.463	466.329	469.707	469.177	472.618	470.218	467.913	463.160
<b>20.0</b>	442.240	445.755	447.984	454.743	458.634	457.997	461.602	458.784	456.790	451.336
<b>22.5</b>	428.533	432.415	434.775	441.727	445.935	445.273	448.805	446.266	443.938	437.720
<b>25.0</b>	415.259	418.993	421.499	428.634	432.677	432.185	435.668	433.095	430.889	424.173
<b>27.5</b>	402.580	405.371	408.182	415.117	418.608	418.227	422.078	419.479	417.134	410.757
<b>30.0</b>	389.894	392.199	395.264	401.707	404.872	404.330	408.414	405.749	403.332	397.249
<b>32.5</b>	377.198	379.846	382.522	388.673	391.506	390.544	394.672	391.960	389.411	383.610
<b>35.0</b>	364.900	367.555	369.736	375.724	378.227	376.713	380.691	377.686	375.465	370.150
<b>37.5</b>	352.932	355.349	356.937	362.992	365.020	362.822	366.517	363.227	361.472	356.886
<b>40.0</b>	340.248	342.612	344.031	349.774	350.714	348.212	351.331	348.238	347.052	343.211
<b>42.5</b>	327.107	329.299	331.102	335.634	335.672	332.842	335.527	333.105	332.015	329.179
<b>45.0</b>	310.824	313.258	313.773	318.709	316.803	312.923	316.282	313.061	313.585	310.693
<b>47.5</b>	293.008	294.944	295.867	297.737	296.008	289.209	295.467	292.142	291.347	289.257
<b>50.0</b>	257.015	260.958	254.551	264.097	256.796	250.237	255.137	248.166	255.246	251.297
<b>52.5</b>	214.579	216.865	211.948	216.193	210.813	201.559	208.149	202.042	207.041	205.113
<b>55.0</b>	168.272	170.967	163.177	169.770	164.318	156.638	162.005	156.176	162.074	160.308
<b>57.5</b>	121.002	124.180	116.228	124.627	117.686	113.507	116.057	111.247	119.265	116.021
<b>60.0</b>	93.952	94.823	91.706	93.923	91.553	87.613	91.280	88.773	91.639	90.632
<b>62.5</b>	70.100	71.698	68.891	72.885	68.859	67.891	69.452	67.422	71.747	70.182
<b>65.0</b>	56.918	57.397	56.463	58.126	56.531	55.192	57.252	55.555	57.870	57.201
<b>67.5</b>	44.741	45.300	45.193	46.551	45.208	44.213	45.892	44.578	46.257	45.477
<b>70.0</b>	36.666	37.088	37.527	38.151	37.541	36.625	37.756	36.955	38.098	38.243
<b>72.5</b>	29.599	29.953	30.887	30.798	30.733	29.780	30.615	30.407	30.780	31.406
<b>75.0</b>	24.721	25.697	25.289	25.855	25.840	24.742	25.519	25.093	25.027	25.411
<b>77.5</b>	19.629	20.301	19.796	20.611	20.295	19.318	19.593	19.273	19.238	19.635
<b>80.0</b>	14.418	14.734	14.632	15.253	14.790	13.896	13.999	13.799	13.734	14.338
<b>82.5</b>	9.527	10.182	9.962	10.334	9.958	9.076	9.301	9.131	9.130	9.763
<b>85.0</b>	6.036	6.597	6.016	6.459	6.226	5.509	5.430	5.624	5.507	5.664
<b>87.5</b>	3.190	2.904	3.213	3.348	2.786	2.278	2.459	2.103	2.690	2.501
<b>90.0</b>	0.517	0.397	0.329	0.171	0.287	0.199	0.187	0.219	0.053	0.249
<b>92.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>97.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>102.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>107.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>112.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>117.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>122.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125.0</b>	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. 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	507.569	507.569	507.569	507.569	507.569	507.569	507.569
2.5	505.803	504.782	504.737	504.643	504.179	504.464	504.678
5.0	503.373	501.210	500.929	501.267	500.229	500.530	501.350
7.5	497.502	494.695	493.631	494.235	493.114	494.253	494.431
10.0	490.497	487.237	486.143	486.800	485.796	487.329	486.931
12.5	481.678	477.516	476.208	477.142	475.587	477.882	477.492
15.0	472.446	467.236	466.080	466.985	465.224	467.990	467.241
17.5	460.633	455.933	454.207	455.018	453.046	455.499	455.002
20.0	448.470	443.619	442.059	442.674	440.769	442.769	442.240
22.5	434.875	429.905	428.494	429.353	427.907	429.726	428.533
25.0	421.194	416.275	415.044	416.060	414.938	416.672	415.259
27.5	407.520	402.732	401.987	402.821	401.562	403.534	402.580
30.0	393.901	389.575	389.200	389.990	388.496	390.492	389.894
32.5	380.990	376.741	377.070	377.753	376.273	378.251	377.198
35.0	368.180	364.474	364.937	365.726	364.136	365.984	364.900
37.5	356.035	352.567	352.798	353.935	352.171	353.595	352.932
40.0	343.595	340.288	340.443	341.760	339.906	341.159	340.248
42.5	329.951	327.829	327.781	329.253	327.178	328.572	327.107
45.0	313.978	310.608	311.754	314.136	311.759	314.005	310.824
47.5	291.480	291.677	292.109	297.242	293.188	294.703	293.008
50.0	260.740	252.789	258.840	264.176	261.415	266.273	257.015
52.5	212.657	208.969	214.010	222.813	217.773	221.430	214.579
55.0	167.117	163.356	169.192	177.313	173.100	176.515	168.272
57.5	125.585	117.462	124.383	130.258	127.696	131.501	121.002
60.0	94.103	93.015	95.265	100.811	97.079	97.733	93.952
62.5	74.694	70.260	73.766	76.156	74.365	75.855	70.100
65.0	59.299	57.868	59.210	61.277	59.152	59.452	56.918

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**CANDELA TABULATION - (Cont.)**

67.5	47.654	46.026	47.177	48.088	46.867	47.494	44.741
70.0	38.870	38.197	38.601	39.314	38.272	38.281	36.666
72.5	31.546	31.228	30.998	31.493	30.675	30.274	29.599
75.0	26.067	25.727	25.741	26.214	25.090	25.094	24.721
77.5	20.366	19.944	20.197	20.457	19.805	19.917	19.629
80.0	14.505	14.592	14.613	14.945	14.642	14.779	14.418
82.5	9.585	9.868	9.585	10.283	9.546	9.850	9.527
85.0	6.142	5.703	6.214	6.177	6.425	6.770	6.036
87.5	2.917	2.839	3.011	3.094	3.243	3.365	3.190
90.0	0.115	0.307	0.273	0.461	0.453	0.223	0.517
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

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Zone	Lumens	%Lamp	%Fixt
0-20	180.83	N.A.	16.60
0-30	376.01	N.A.	34.50
0-40	608.21	N.A.	55.80
0-60	997.02	N.A.	91.40
0-80	1083.43	N.A.	99.30
0-90	1090.5	N.A.	100.00
10-90	1042.85	N.A.	95.60
20-40	427.38	N.A.	39.20
20-50	666.34	N.A.	61.10
40-70	448.27	N.A.	41.10
60-80	86.41	N.A.	7.90
70-80	26.95	N.A.	2.50
80-90	7.07	N.A.	0.60
90-110	0.04	N.A.	0.00
90-120	0.04	N.A.	0.00
90-130	0.04	N.A.	0.00
90-150	0.04	N.A.	0.00
90-180	0.04	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1090.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	47.64
10-20	133.19
20-30	195.18
30-40	232.20
40-50	238.96
50-60	149.85
60-70	59.46
70-80	26.95
80-90	7.07
90-100	0.04
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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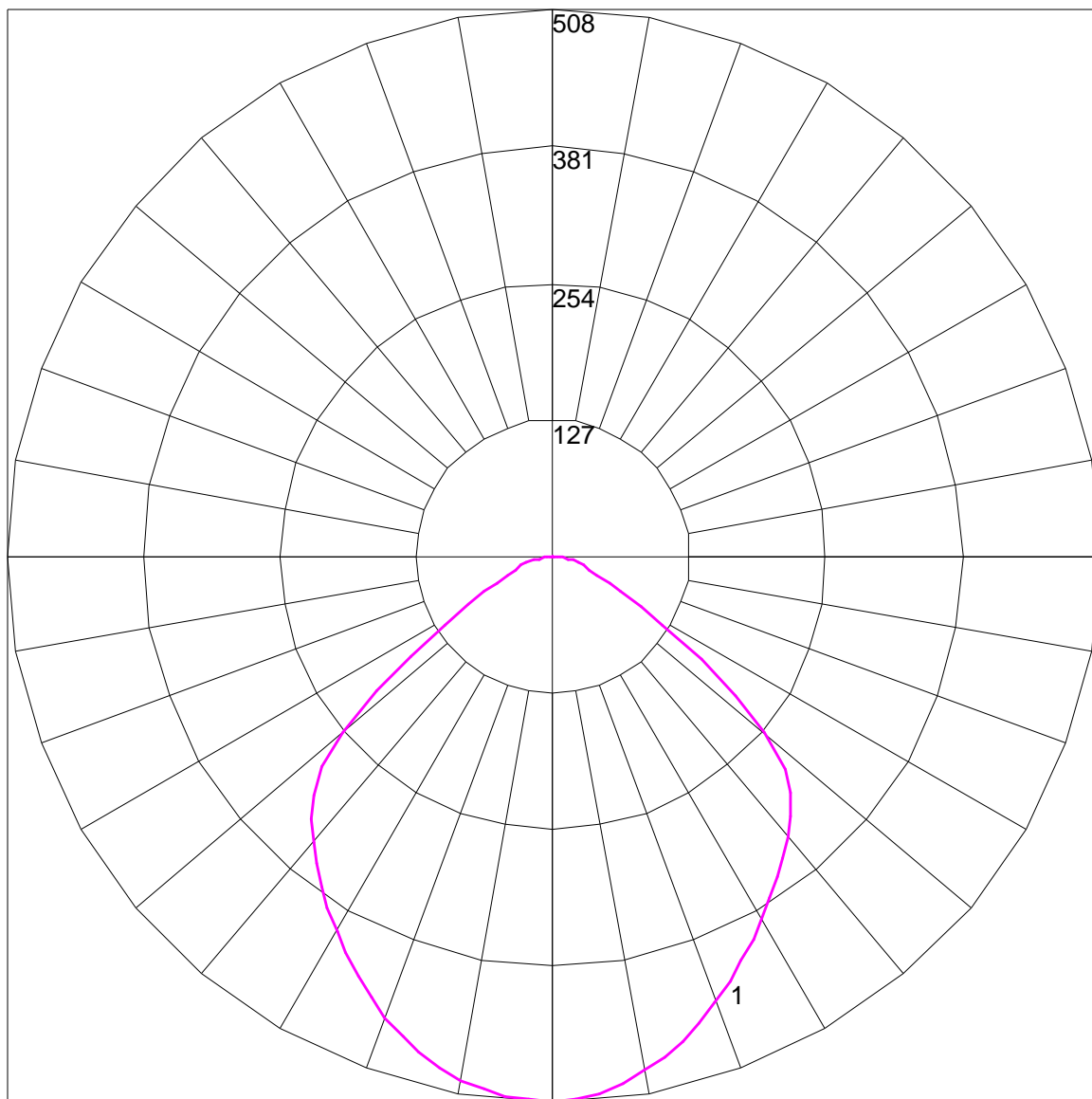
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	107	103	100	108	105	101	99	100	98	95	97	94	93	93	91	90	88
2	102	95	90	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76
3	94	85	78	73	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	54	48	60	53	48	58	52	48	57	52	47	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	41
8	65	52	44	39	63	52	44	39	50	44	39	49	43	38	48	42	38	36
9	61	48	40	35	59	48	40	35	47	40	35	45	39	35	44	39	35	33
10	57	45	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00381\_1 ~ SV1411GV-15L35K-TF2-MWI.IES

POLAR GRAPH



Maximum Candela = 507.718 Located At Horizontal Angle = 90, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)