

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00732 ~ SP1414GV-15L35KEX-TF2-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00732\_M-15L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 5/29/2018

[UPDATE] 11/14/2018

[LUMCAT] SP1414GV-15L-35K-EX-TF2-WMI

[LUMINAIRE] Nom. 14" dia x 14" H Espresso Pendant Specplume Decorative luminaire

[OTHER] Reflector: Matte white interior finish

[OTHER] Beam Angle: 78.2 degrees

[LAMPCAT] N/A

[LAMP] N/A, Gen3

[OTHER] 4" Diffuse Domed Glass

[OTHER] Total Luminaire Watts is approximate

[OTHER] CCT Multipliers: 27K x 0.971, 30K x 0.985, 40K x 1.03

[OTHER] This report prepared by Spectrum Lighting, scaled from 55L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	904
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.14
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.17 ft (Diameter)
Luminous Width (90-270)	1.17 ft (Diameter)
Luminous Height	0.00 ft

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2146	2124	2055
55	1524	1499	1441
65	1366	1363	1321
75	1089	1105	1078
85	353	438	412

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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>	528.076	528.076	528.076	528.076	528.076	528.076	528.076	528.076	528.076	528.076
<b>2.5</b>	530.442	530.050	529.656	529.831	528.078	524.077	523.262	523.353	524.267	524.625
<b>5.0</b>	531.025	530.772	529.663	528.437	525.510	520.408	519.225	518.760	519.576	520.275
<b>7.5</b>	529.398	529.101	527.295	525.304	521.449	515.422	513.995	513.237	513.867	514.984
<b>10.0</b>	524.923	526.086	523.180	520.609	516.128	509.307	508.433	507.188	507.613	508.037
<b>12.5</b>	517.600	519.180	516.070	513.938	509.789	502.047	501.044	499.341	499.759	499.504
<b>15.0</b>	508.566	510.551	507.729	505.833	501.545	493.905	493.286	491.050	491.218	490.129
<b>17.5</b>	498.128	499.690	497.670	496.326	492.043	485.041	483.560	481.611	481.944	480.082
<b>20.0</b>	486.598	488.067	486.852	485.979	481.944	475.282	473.568	471.765	472.429	469.672
<b>22.5</b>	474.347	476.279	475.166	474.903	471.527	464.912	463.211	461.099	461.746	459.029
<b>25.0</b>	462.795	464.449	463.546	463.479	461.007	453.879	452.827	449.945	450.776	448.066
<b>27.5</b>	451.618	452.236	451.987	451.825	450.444	442.485	440.420	437.985	438.272	436.939
<b>30.0</b>	436.085	439.953	436.164	440.087	434.758	424.038	427.441	420.308	425.500	418.020
<b>32.5</b>	418.688	415.359	417.107	415.567	417.364	402.571	398.357	395.053	394.647	395.876
<b>35.0</b>	373.184	389.292	375.180	387.356	370.233	350.899	365.762	349.757	361.870	343.651
<b>37.5</b>	318.453	324.249	319.105	324.908	315.787	288.929	295.109	282.992	292.765	281.925
<b>40.0</b>	253.879	256.820	255.993	255.378	248.644	226.005	226.958	221.851	221.776	221.403
<b>42.5</b>	186.819	201.430	189.425	199.640	179.353	162.840	175.545	165.728	175.283	161.166
<b>45.0</b>	151.693	147.636	150.176	145.822	145.282	132.644	130.168	130.155	130.395	132.712
<b>47.5</b>	122.151	127.080	121.758	123.708	115.086	108.214	111.783	109.398	113.174	109.506
<b>50.0</b>	107.807	107.465	105.895	104.095	101.873	96.205	95.636	95.524	96.791	97.491
<b>52.5</b>	95.081	97.009	93.807	93.988	89.520	85.626	86.753	85.689	87.912	86.569
<b>55.0</b>	87.380	87.098	85.941	84.187	82.624	79.277	78.784	78.704	79.524	79.973
<b>57.5</b>	79.948	80.379	78.992	78.002	75.749	73.153	73.153	73.064	73.850	73.558
<b>60.0</b>	72.799	73.530	72.050	71.743	69.240	66.892	67.332	66.911	68.000	67.256
<b>62.5</b>	65.609	66.148	65.109	64.616	62.692	60.603	61.134	60.569	61.472	60.892
<b>65.0</b>	57.725	58.688	57.590	57.490	55.812	53.747	54.625	53.812	54.740	53.593
<b>67.5</b>	49.931	51.000	50.031	50.366	48.924	46.865	47.642	46.939	47.437	46.315
<b>70.0</b>	42.622	43.513	42.749	43.143	42.003	39.843	40.723	40.192	40.374	39.145
<b>72.5</b>	35.369	36.306	35.561	35.700	35.002	32.991	33.861	33.375	33.637	32.320
<b>75.0</b>	28.191	29.233	28.588	28.927	27.905	26.378	27.028	26.205	26.767	25.965
<b>77.5</b>	21.464	22.191	21.726	22.429	21.255	19.451	20.235	19.322	19.880	18.874
<b>80.0</b>	14.881	15.114	15.161	15.615	14.789	12.692	13.530	12.749	13.063	12.336
<b>82.5</b>	8.463	9.112	9.121	9.117	8.728	6.710	7.283	6.715	7.100	6.660
<b>85.0</b>	3.072	3.729	3.815	3.967	3.592	2.475	2.174	2.170	2.431	2.109
<b>87.5</b>	0.620	0.766	0.705	0.689	0.671	0.436	0.419	0.438	0.482	0.278
<b>90.0</b>	0.271	0.080	0.191	0.136	0.167	0.160	0.103	0.220	0.094	0.212
<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.  
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	528.076	528.076	528.076	528.076	528.076	528.076	528.076
2.5	525.711	527.577	528.431	527.630	528.799	529.730	530.442
5.0	522.237	523.836	526.239	527.452	529.346	531.368	531.025
7.5	516.651	518.723	522.059	524.655	526.711	528.418	529.398
10.0	510.477	511.579	516.539	520.475	522.169	525.094	524.923
12.5	502.060	503.214	508.211	512.965	514.357	517.317	517.600
15.0	493.200	493.642	498.372	504.077	505.467	509.327	508.566
17.5	482.494	483.494	487.725	493.544	495.094	498.082	498.128
20.0	471.547	472.392	476.730	482.471	484.428	486.834	486.598
22.5	460.474	460.926	465.088	471.440	473.432	475.552	474.347
25.0	449.393	449.542	453.229	460.418	462.620	464.301	462.795
27.5	437.386	438.183	440.944	449.040	451.980	453.273	451.618
30.0	424.766	420.777	428.554	437.601	437.403	440.586	436.085
32.5	393.810	402.115	399.779	414.183	419.884	420.022	418.688
35.0	359.589	348.082	368.125	389.490	378.296	389.924	373.184
37.5	289.974	288.934	301.597	324.304	321.819	326.614	318.453
40.0	223.282	226.246	231.181	257.342	258.169	263.763	253.879
42.5	174.986	163.277	183.654	201.818	190.995	202.140	186.819
45.0	132.250	137.184	137.272	148.223	152.576	152.769	151.693
47.5	114.381	112.350	119.736	127.919	125.161	128.859	122.151
50.0	98.629	100.684	102.678	108.694	109.197	109.733	107.807
52.5	89.752	89.407	93.508	98.430	96.675	98.613	95.081
55.0	81.509	82.770	84.598	88.679	88.432	89.043	87.380
57.5	74.831	76.077	77.948	81.687	81.119	81.586	79.948
60.0	68.197	68.999	71.190	74.536	73.344	74.077	72.799
62.5	61.650	61.874	63.820	66.772	65.502	66.511	65.609
65.0	54.830	54.527	56.391	58.942	57.874	58.874	57.725

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**CANDELA TABULATION - (Cont.)**

67.5	47.593	47.186	48.743	50.930	50.266	51.172	49.931
70.0	40.456	39.863	41.211	43.284	42.716	43.567	42.622
72.5	33.404	32.780	33.870	36.127	35.262	36.010	35.369
75.0	26.519	25.917	26.594	28.769	28.027	28.903	28.191
77.5	19.598	18.681	19.491	21.498	21.069	21.868	21.464
80.0	12.616	12.042	12.848	14.615	14.590	15.033	14.881
82.5	6.351	6.290	6.800	8.701	8.704	8.958	8.463
85.0	1.806	2.062	1.800	3.028	3.274	3.256	3.072
87.5	0.404	0.414	0.383	0.617	0.624	0.746	0.620
90.0	0.082	0.216	0.233	0.129	0.220	0.074	0.271
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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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	190.74	N.A.	21.10
0-30	401.31	N.A.	44.40
0-40	621.63	N.A.	68.80
0-60	814.60	N.A.	90.10
0-80	899.17	N.A.	99.50
0-90	904.10	N.A.	100.00
10-90	854.26	N.A.	94.50
20-40	430.89	N.A.	47.70
20-50	548.11	N.A.	60.60
40-70	248.48	N.A.	27.50
60-80	84.57	N.A.	9.40
70-80	29.05	N.A.	3.20
80-90	4.93	N.A.	0.50
90-110	0.02	N.A.	0.00
90-120	0.02	N.A.	0.00
90-130	0.02	N.A.	0.00
90-150	0.02	N.A.	0.00
90-180	0.02	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	904.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	49.84
10-20	140.90
20-30	210.57
30-40	220.32
40-50	117.22
50-60	75.74
60-70	55.52
70-80	29.05
80-90	4.93
90-100	0.02
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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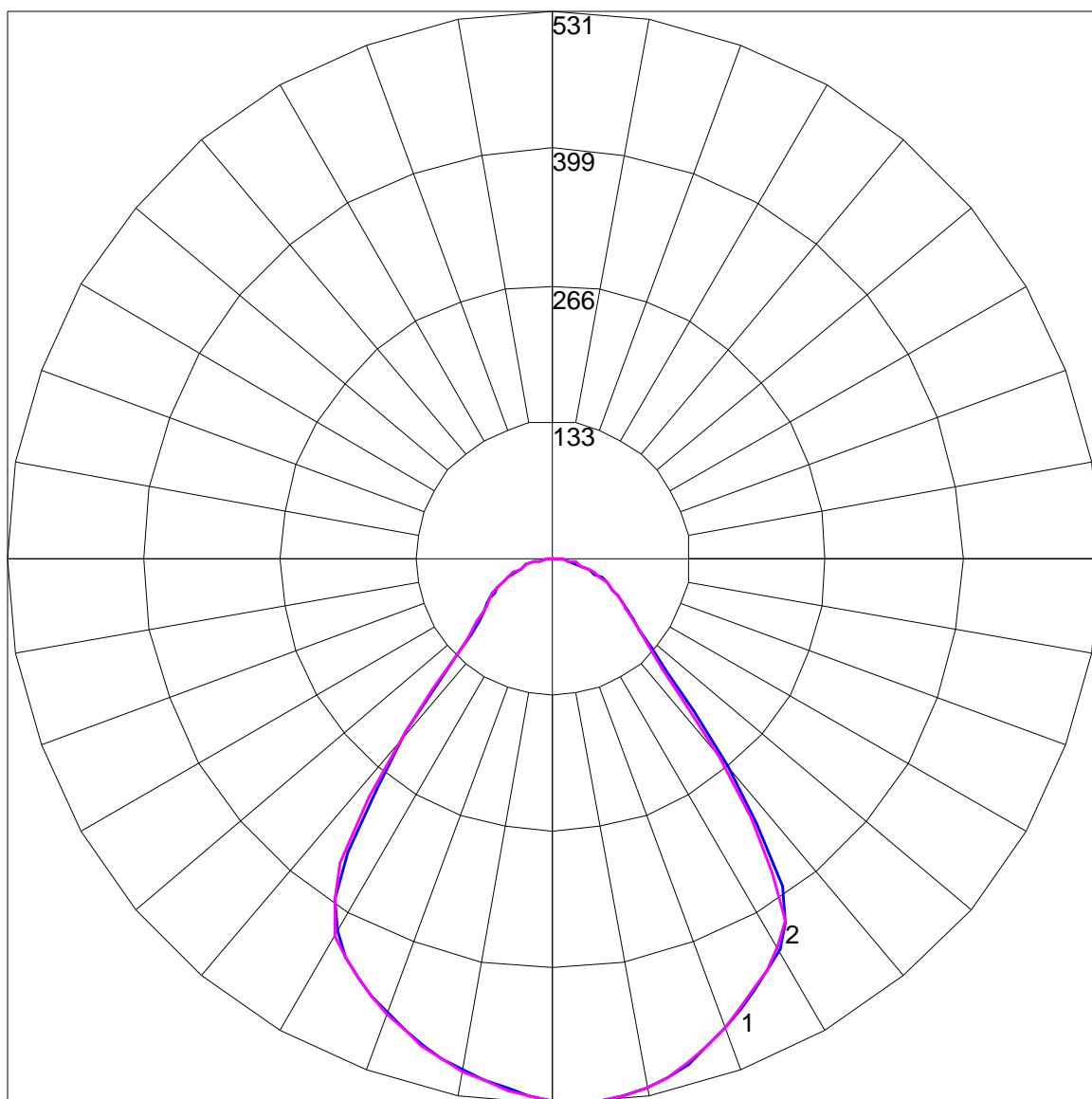
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78
3	96	87	81	75	94	86	80	75	83	78	74	80	76	72	78	74	71	69
4	89	79	72	67	87	78	71	66	76	70	65	74	69	64	72	67	64	62
5	83	73	65	59	81	71	64	59	70	63	59	68	62	58	66	61	57	56
6	78	67	59	53	76	66	58	53	64	58	53	62	57	52	61	56	52	50
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	57	51	47	46
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42
9	65	53	45	41	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00732 ~ SP1414GV-15L35KEX-TF2-MWI.IES

POLAR GRAPH



Maximum Candela = 531.368 Located At Horizontal Angle = 337.5, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (337.5 - 157.5) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (0 - 180)