

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00671 ~ ON2412GV-37L35K-EX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00671\_M-37L  
[TESTLAB] Spectrum Photometric Lab VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 4/20/2018  
[UPDATE] 5/24/2018  
[LUMCAT] ON2412GV-37L-35K-EX-MWI  
[LUMINAIRE] Nom. 24" diam x 11.4" H, Orion luminaire  
[OTHER] Regressed, 11" diam. frosted glass globe  
[OTHER] Reflector: Matte White interior finish  
[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	2703
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	26
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.30
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Circular
Luminous Length (0-180)	2.00 ft (Diameter)
Luminous Width (90-270)	2.00 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	3727	3722	3722
55	2695	2704	2745
65	1569	1553	1579
75	1162	1141	1145
85	816	792	880

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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>	1108.017	1108.017	1108.017	1108.017	1108.017	1108.017	1108.017	1108.017	1108.017	1108.017
<b>2.5</b>	1105.062	1105.587	1104.391	1104.809	1105.475	1104.969	1107.383	1107.446	1108.432	1108.266
<b>5.0</b>	1099.044	1099.311	1099.285	1098.974	1100.572	1098.509	1101.332	1101.932	1104.240	1105.307
<b>7.5</b>	1091.496	1091.293	1090.968	1091.884	1093.648	1089.269	1092.116	1092.506	1097.677	1100.056
<b>10.0</b>	1080.876	1081.695	1081.128	1082.878	1083.667	1077.694	1079.590	1080.631	1087.600	1090.314
<b>12.5</b>	1068.940	1070.376	1069.366	1072.257	1072.189	1064.648	1065.743	1065.920	1074.797	1077.295
<b>15.0</b>	1056.244	1057.710	1055.912	1059.516	1058.371	1048.876	1050.704	1049.788	1058.521	1061.896
<b>17.5</b>	1043.273	1043.476	1040.590	1044.881	1043.587	1031.591	1033.600	1032.214	1041.349	1044.981
<b>20.0</b>	1027.610	1028.155	1024.770	1028.040	1026.854	1014.243	1014.864	1014.036	1023.164	1026.641
<b>22.5</b>	1011.126	1011.362	1008.468	1010.220	1009.426	996.863	995.388	995.318	1003.063	1007.512
<b>25.0</b>	993.020	993.693	990.241	991.413	989.614	976.793	975.401	974.054	981.091	986.605
<b>27.5</b>	974.514	974.102	970.407	971.574	969.107	955.661	953.996	950.840	959.530	964.862
<b>30.0</b>	953.404	953.538	949.190	950.836	947.792	933.088	931.754	928.774	938.318	942.706
<b>32.5</b>	931.782	930.944	926.961	928.820	926.288	910.026	908.494	907.475	915.677	920.383
<b>35.0</b>	907.147	907.452	902.081	905.820	901.247	884.967	884.705	882.853	891.966	896.477
<b>37.5</b>	882.056	880.608	875.512	880.021	875.533	859.353	857.496	856.301	865.322	872.035
<b>40.0</b>	851.480	852.525	846.175	852.367	845.606	828.506	828.781	824.809	836.790	841.360
<b>42.5</b>	820.330	817.179	815.330	818.074	815.087	796.506	791.935	790.874	799.015	808.965
<b>45.0</b>	769.900	779.624	768.953	779.953	768.883	743.952	752.098	738.688	756.153	755.967
<b>47.5</b>	718.205	716.317	715.284	720.729	721.192	687.738	684.835	678.756	689.455	698.343
<b>50.0</b>	632.376	646.424	635.551	650.987	638.813	601.993	608.937	593.504	611.256	610.266
<b>52.5</b>	545.491	553.926	545.359	561.370	554.334	512.430	516.735	499.128	519.641	516.803
<b>55.0</b>	451.631	456.897	453.167	463.398	459.997	423.105	420.385	411.576	422.579	425.255
<b>57.5</b>	358.903	375.220	360.310	379.091	365.819	333.800	343.332	326.042	344.801	333.952
<b>60.0</b>	295.059	295.917	293.009	299.658	300.103	273.353	270.125	265.293	273.650	273.639
<b>62.5</b>	233.065	243.864	232.778	243.618	235.566	214.370	221.731	210.694	222.837	216.173
<b>65.0</b>	193.721	194.868	191.701	194.560	194.897	178.504	177.265	174.515	177.849	179.844
<b>67.5</b>	156.683	161.965	154.819	161.008	156.421	143.932	147.141	141.805	147.578	145.282
<b>70.0</b>	130.432	130.929	127.926	130.695	130.420	119.395	119.142	117.244	120.258	122.159
<b>72.5</b>	107.175	107.265	103.606	107.652	106.786	97.696	98.912	94.944	99.121	99.974
<b>75.0</b>	87.895	87.438	86.245	87.541	86.577	81.092	80.989	78.902	80.305	79.713
<b>77.5</b>	70.702	71.363	69.619	71.769	69.855	63.000	65.558	62.622	64.846	63.514
<b>80.0</b>	54.336	54.878	53.203	54.634	54.335	46.641	48.516	46.398	47.208	47.948
<b>82.5</b>	37.825	37.194	36.563	37.584	38.864	32.054	31.729	30.053	30.440	31.347
<b>85.0</b>	20.775	20.674	20.167	21.598	22.417	15.679	15.301	12.670	13.964	14.421
<b>87.5</b>	6.159	5.291	5.450	6.300	7.394	3.047	2.571	2.290	1.992	2.618
<b>90.0</b>	0.984	0.447	0.764	0.576	0.614	0.844	0.417	0.858	0.595	0.650
<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	1108.017	1108.017	1108.017	1108.017	1108.017	1108.017	1108.017
2.5	1107.360	1106.090	1105.718	1107.471	1107.200	1107.349	1105.062
5.0	1105.682	1101.730	1100.670	1103.929	1101.764	1101.210	1099.044
7.5	1099.472	1095.471	1093.628	1096.986	1093.741	1093.049	1091.496
10.0	1090.936	1085.788	1083.959	1086.488	1083.065	1083.746	1080.876
12.5	1079.349	1074.688	1071.982	1074.464	1070.719	1071.353	1068.940
15.0	1066.438	1059.832	1057.347	1061.062	1056.574	1057.479	1056.244
17.5	1049.356	1043.683	1041.387	1045.464	1041.445	1043.198	1043.273
20.0	1030.706	1026.710	1024.091	1028.129	1026.270	1028.748	1027.610
22.5	1011.991	1009.496	1005.907	1010.577	1011.073	1013.306	1011.126
25.0	993.256	989.325	986.948	992.875	992.868	997.520	993.020
27.5	971.379	968.460	966.530	974.654	973.475	979.399	974.514
30.0	948.719	947.023	944.998	956.124	954.813	960.615	953.404
32.5	926.249	925.482	922.470	934.159	936.395	938.969	931.782
35.0	903.818	899.845	899.279	910.435	912.413	916.646	907.147
37.5	877.768	873.627	872.630	884.863	886.887	890.298	882.056
40.0	851.160	843.017	844.013	858.479	857.235	863.211	851.480
42.5	812.801	811.987	805.367	822.668	826.674	827.326	820.330
45.0	773.181	756.031	761.784	783.390	776.442	790.259	769.900
47.5	701.747	698.643	690.811	717.833	722.708	724.948	718.205
50.0	628.012	605.263	608.278	644.002	636.357	656.878	632.376
52.5	529.022	511.132	514.537	549.967	545.792	561.587	545.491
55.0	429.278	418.948	416.854	450.792	452.681	464.793	451.631
57.5	351.345	328.402	340.819	369.491	359.357	380.909	358.903
60.0	274.495	269.998	271.142	291.753	294.277	297.682	295.059
62.5	227.259	213.514	221.907	239.634	230.631	246.774	233.065
65.0	181.461	178.348	177.593	191.570	193.221	197.144	193.721

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**CANDELA TABULATION - (Cont.)**

67.5	149.762	144.884	147.268	159.283	157.092	164.023	156.683
70.0	120.817	119.038	119.438	129.096	130.576	133.026	130.432
72.5	99.659	96.978	98.765	105.576	106.698	108.673	107.175
75.0	81.449	79.762	79.722	86.020	87.561	88.645	87.895
77.5	65.069	63.747	62.831	70.762	69.803	71.738	70.702
80.0	48.437	47.171	46.469	53.219	53.107	55.934	54.336
82.5	31.526	29.837	29.636	36.722	37.086	40.028	37.825
85.0	13.985	13.116	14.006	19.997	20.293	22.279	20.775
87.5	2.064	1.947	1.861	4.578	5.613	6.823	6.159
90.0	0.378	0.504	0.335	0.454	0.612	0.500	0.984
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	403.10	N.A.	14.90
0-30	858.83	N.A.	31.80
0-40	1422.21	N.A.	52.60
0-60	2400.57	N.A.	88.80
0-80	2680.99	N.A.	99.20
0-90	2703.2	N.A.	100.00
10-90	2598.62	N.A.	96.10
20-40	1019.12	N.A.	37.70
20-50	1601.18	N.A.	59.20
40-70	1168.76	N.A.	43.20
60-80	280.42	N.A.	10.40
70-80	90.01	N.A.	3.30
80-90	22.21	N.A.	0.80
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	2703.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	104.58
10-20	298.51
20-30	455.74
30-40	563.38
40-50	582.06
50-60	396.30
60-70	190.40
70-80	90.01
80-90	22.21
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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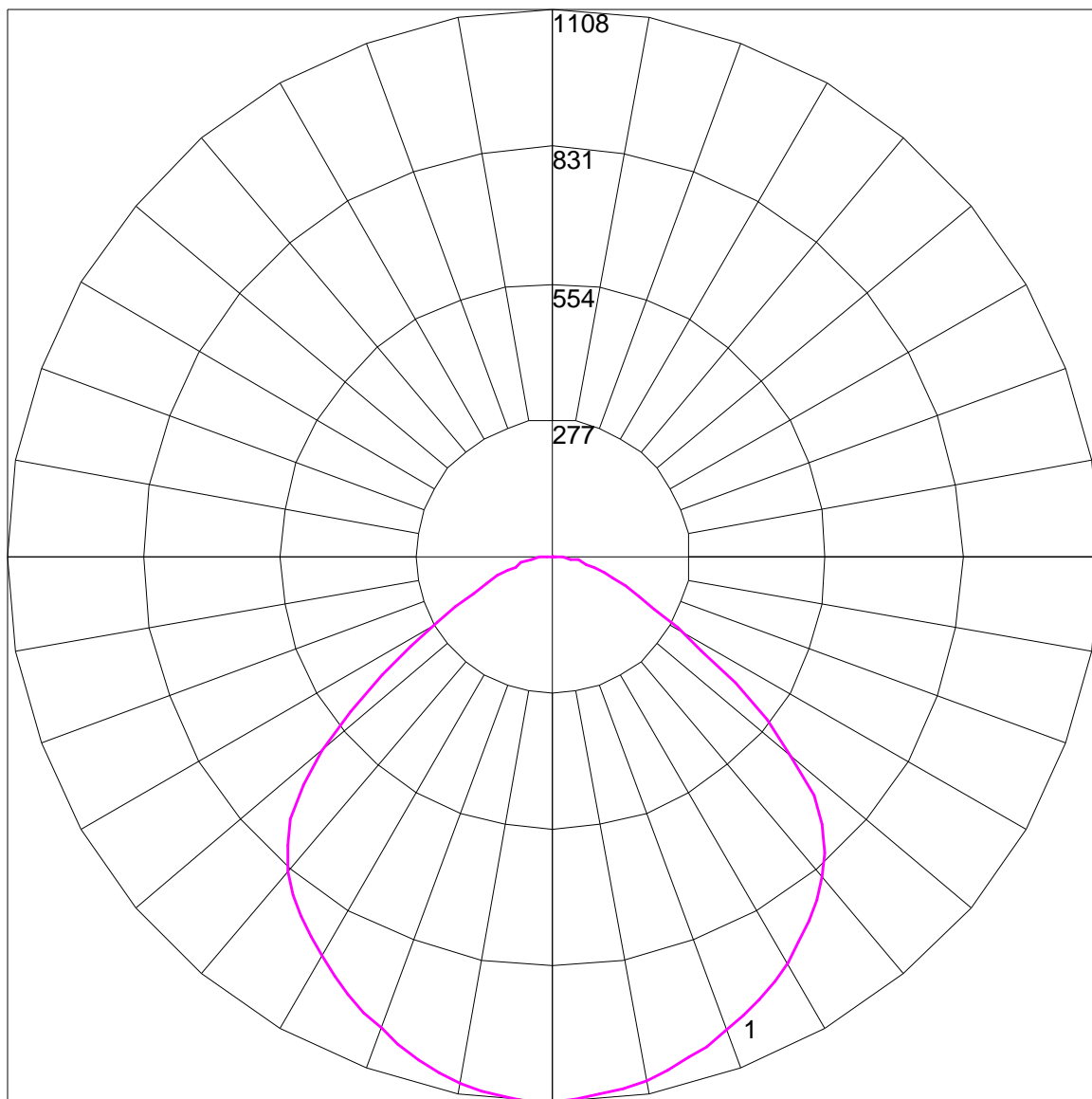
**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	52	61	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34
9	59	47	39	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	41	34	30	40	34	30	28

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00671 ~ ON2412GV-37L35K-EX-MWI.IES

POLAR GRAPH



Maximum Candela = 1108.432 Located At Horizontal Angle = 180, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)