

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SGE5LEDOS-30L35KE1-AR5223OSMWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]20141007\_M-30L-Gen3  
[TESTLAB]OSRAM SYLVANIA  
[TESTDATE]8/12/2014  
[ISSUEDATE]8/12/2014  
[UPDATE]11/14/2016  
[MANUFAC]Spectrum Lighting  
[LUMCAT]SGE5LEDOS-30L-35K-EX-AR5223OS-MW-SO  
[LUMINAIRE]5" DIAM., OPEN APERTURE LED DOWNLIGHT  
[OTHER]SHALLOW PROFILE, MATTE WHITE LOWER CONE  
[OTHER]INTEGRAL, REGRESSED SOLITE GLASS LENS  
[OTHER]70.2 DEGREE BEAM ANGLE  
[LAMP]N/A  
[LAMPCAT]N/A  
[OTHER]TOTAL LUMINAIRE WATTS IS APPROXIMATE  
[OTHER]PHOTOMETRIC MEASUREMENTS TAKEN AT 120VAC  
[OTHER]CCT OUTPUT MULTIPLIERS: 40K x 1.0, 30K x 1.0, 27K x 0.945  
[OTHER]CATALOG NUMBER DESIGNATION UPDATE: 35W NOW CALLED 30L  
[OTHER]THIS REPORT UPDATED BY SPECTRUM LIGHTING, SCALED FROM GEN2

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2447
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	27.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.10
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.04
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.42 ft (Diameter)
Luminous Width (90-270)	0.42 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	37466	37608	37531
55	21274	21357	21358
65	13904	13970	14012
75	10523	10543	10594
85	8408	8541	8638

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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>	1800.687	1800.687	1800.687	1800.687	1800.687	1800.687	1800.687	1800.687	1800.687	1800.687
<b>2.5</b>	1808.029	1802.806	1802.528	1800.180	1798.807	1800.180	1802.528	1802.806	1808.029	1802.806
<b>5.0</b>	1804.209	1796.479	1797.305	1795.982	1793.276	1795.982	1797.305	1796.479	1804.209	1796.479
<b>7.5</b>	1796.738	1789.088	1792.003	1789.387	1786.760	1789.387	1792.003	1789.088	1796.738	1789.088
<b>10.0</b>	1782.672	1779.070	1775.897	1773.728	1774.285	1773.728	1775.897	1779.070	1782.672	1779.070
<b>12.5</b>	1763.193	1755.971	1758.767	1755.454	1751.753	1755.454	1758.767	1755.971	1763.193	1755.971
<b>15.0</b>	1738.761	1732.862	1730.584	1727.162	1728.097	1727.162	1730.584	1732.862	1738.761	1732.862
<b>17.5</b>	1704.789	1700.630	1696.751	1694.025	1692.801	1694.025	1696.751	1700.630	1704.789	1700.630
<b>20.0</b>	1660.371	1654.243	1654.860	1651.915	1649.319	1651.915	1654.860	1654.243	1660.371	1654.243
<b>22.5</b>	1595.550	1588.059	1589.034	1585.263	1586.984	1585.263	1589.034	1588.059	1595.550	1588.059
<b>25.0</b>	1504.914	1502.347	1498.079	1499.930	1496.856	1499.930	1498.079	1502.347	1504.914	1502.347
<b>27.5</b>	1395.426	1391.049	1386.333	1386.433	1388.154	1386.433	1386.333	1391.049	1395.426	1391.049
<b>30.0</b>	1261.088	1258.313	1254.871	1251.886	1250.832	1251.886	1254.871	1258.313	1261.088	1258.313
<b>32.5</b>	1093.862	1088.152	1086.948	1084.650	1085.595	1084.650	1086.948	1088.152	1093.862	1088.152
<b>35.0</b>	909.317	907.118	907.188	904.442	907.258	904.442	907.188	907.118	909.317	907.118
<b>37.5</b>	729.308	728.124	726.194	728.194	726.851	728.194	726.194	728.124	729.308	728.124
<b>40.0</b>	566.787	566.797	564.758	565.862	566.678	565.862	564.758	566.797	566.787	566.797
<b>42.5</b>	436.399	438.219	437.583	436.190	437.274	436.190	437.583	438.219	436.399	438.219
<b>45.0</b>	341.306	342.987	342.599	341.962	341.903	341.962	342.599	342.987	341.306	342.987
<b>47.5</b>	273.620	273.689	273.162	274.396	273.580	274.396	273.162	273.689	273.620	273.689
<b>50.0</b>	223.273	223.641	223.591	224.357	223.999	224.357	223.591	223.641	223.273	223.641
<b>52.5</b>	186.416	187.162	187.122	186.744	186.913	186.744	187.122	187.162	186.416	187.162
<b>55.0</b>	157.208	158.203	157.815	157.775	157.825	157.775	157.815	158.203	157.208	158.203
<b>57.5</b>	133.522	133.811	134.000	134.547	134.328	134.547	134.000	133.811	133.522	133.811
<b>60.0</b>	112.203	112.562	112.641	112.979	112.890	112.979	112.641	112.562	112.203	112.562
<b>62.5</b>	92.029	92.268	92.576	92.487	92.924	92.487	92.576	92.268	92.029	92.268
<b>65.0</b>	75.704	75.953	76.062	76.182	76.291	76.182	76.062	75.953	75.704	75.953
<b>67.5</b>	59.141	59.260	59.191	59.469	59.549	59.469	59.191	59.260	59.141	59.260
<b>70.0</b>	50.407	50.496	50.416	50.605	50.705	50.605	50.416	50.496	50.407	50.496
<b>72.5</b>	42.627	42.647	42.627	42.727	42.866	42.727	42.627	42.647	42.627	42.647
<b>75.0</b>	35.087	35.156	35.156	35.365	35.325	35.365	35.156	35.156	35.087	35.156
<b>77.5</b>	28.053	28.203	28.143	28.491	28.302	28.491	28.143	28.203	28.053	28.203
<b>80.0</b>	21.537	21.597	21.657	21.965	21.766	21.965	21.657	21.597	21.537	21.597
<b>82.5</b>	15.310	15.370	15.569	15.758	15.559	15.758	15.569	15.370	15.310	15.370
<b>85.0</b>	9.441	9.630	9.590	9.839	9.699	9.839	9.590	9.630	9.441	9.630
<b>87.5</b>	4.029	4.496	4.437	4.377	4.208	4.377	4.437	4.496	4.029	4.496
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<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
<b>127.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>130.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>132.5</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.)**

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	1800.687	1800.687	1800.687	1800.687	1800.687	1800.687	1800.687
2.5	1802.528	1800.180	1798.807	1800.180	1802.528	1802.806	1808.029
5.0	1797.305	1795.982	1793.276	1795.982	1797.305	1796.479	1804.209
7.5	1792.003	1789.387	1786.760	1789.387	1792.003	1789.088	1796.738
10.0	1775.897	1773.728	1774.285	1773.728	1775.897	1779.070	1782.672
12.5	1758.767	1755.454	1751.753	1755.454	1758.767	1755.971	1763.193
15.0	1730.584	1727.162	1728.097	1727.162	1730.584	1732.862	1738.761
17.5	1696.751	1694.025	1692.801	1694.025	1696.751	1700.630	1704.789
20.0	1654.860	1651.915	1649.319	1651.915	1654.860	1654.243	1660.371
22.5	1589.034	1585.263	1586.984	1585.263	1589.034	1588.059	1595.550
25.0	1498.079	1499.930	1496.856	1499.930	1498.079	1502.347	1504.914
27.5	1386.333	1386.433	1388.154	1386.433	1386.333	1391.049	1395.426
30.0	1254.871	1251.886	1250.832	1251.886	1254.871	1258.313	1261.088
32.5	1086.948	1084.650	1085.595	1084.650	1086.948	1088.152	1093.862
35.0	907.188	904.442	907.258	904.442	907.188	907.118	909.317
37.5	726.194	728.194	726.851	728.194	726.194	728.124	729.308
40.0	564.758	565.862	566.678	565.862	564.758	566.797	566.787
42.5	437.583	436.190	437.274	436.190	437.583	438.219	436.399
45.0	342.599	341.962	341.903	341.962	342.599	342.987	341.306
47.5	273.162	274.396	273.580	274.396	273.162	273.689	273.620
50.0	223.591	224.357	223.999	224.357	223.591	223.641	223.273
52.5	187.122	186.744	186.913	186.744	187.122	187.162	186.416
55.0	157.815	157.775	157.825	157.775	157.815	158.203	157.208
57.5	134.000	134.547	134.328	134.547	134.000	133.811	133.522
60.0	112.641	112.979	112.890	112.979	112.641	112.562	112.203
62.5	92.576	92.487	92.924	92.487	92.576	92.268	92.029
65.0	76.062	76.182	76.291	76.182	76.062	75.953	75.704
67.5	59.191	59.469	59.549	59.469	59.191	59.260	59.141
70.0	50.416	50.605	50.705	50.605	50.416	50.496	50.407
72.5	42.627	42.727	42.866	42.727	42.627	42.647	42.627
75.0	35.156	35.365	35.325	35.365	35.156	35.156	35.087
77.5	28.143	28.491	28.302	28.491	28.143	28.203	28.053
80.0	21.657	21.965	21.766	21.965	21.657	21.597	21.537

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**CANDELA TABULATION - (Cont.)**

82.5	15.569	15.758	15.559	15.758	15.569	15.370	15.310
85.0	9.590	9.839	9.699	9.839	9.590	9.630	9.441
87.5	4.437	4.377	4.208	4.377	4.437	4.496	4.029
90.0	0.000	0.000	0.000	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

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	658.25	N.A.	26.90
0-30	1339.31	N.A.	54.70
0-40	1901.2	N.A.	77.70
0-60	2322.2	N.A.	94.90
0-80	2436.1	N.A.	99.60
0-90	2447.09	N.A.	100.00
10-90	2276.14	N.A.	93.00
20-40	1242.95	N.A.	50.80
20-50	1519.76	N.A.	62.10
40-70	497.39	N.A.	20.30
60-80	113.90	N.A.	4.70
70-80	37.52	N.A.	1.50
80-90	10.99	N.A.	0.40
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	2447.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

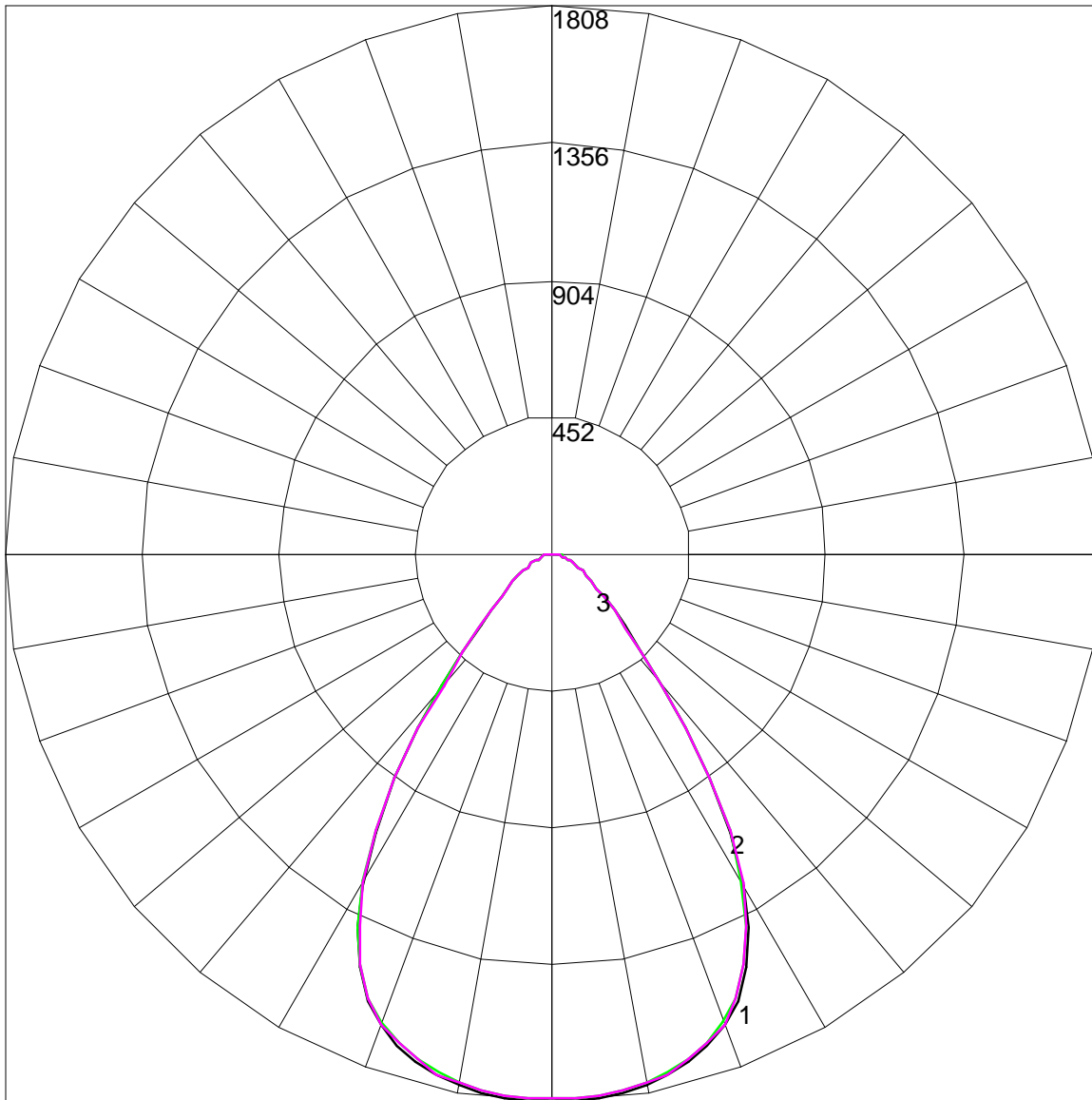
Zone	Lumens
0-10	170.96
10-20	487.29
20-30	681.06
30-40	561.89
40-50	276.81
50-60	144.19
60-70	76.38
70-80	37.52
80-90	10.99
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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	112	109	106	103	110	107	104	101	103	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82
3	99	91	85	80	97	89	84	80	87	82	78	84	80	77	82	79	76	74
4	93	84	77	72	91	82	76	72	80	75	71	78	73	70	76	72	69	67
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52
8	73	62	55	50	71	61	55	50	60	54	50	59	53	49	58	53	49	48
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44
10	65	54	47	43	64	54	47	43	53	47	43	52	46	43	51	46	43	41

POLAR GRAPH



Maximum Candela = 1808.029 Located At Horizontal Angle = 0, Vertical Angle = 2.5

- # 1 - Vertical Plane Through Horizontal Angles (0 - 180)
- # 2 - Vertical Plane Through Horizontal Angles (90 - 270)
- # 3 - Vertical Plane Through Horizontal Angles (45 - 225)