

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SGV8LEDLX-140L35KWDE1-AR8664LXSG.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]101650171CRT-024\_M-140L-Gen2  
[TESTLAB]Intertek  
[ISSUE DATE]08/03/2015  
[UPDATE]08/03/2017  
[LAB-REF LUMCAT]CRT1507151109-003\_M-140L-Gen2  
[MANUFAC]SPECTRUM LIGHTING  
[LUMCAT]SGV8LEDLX-140L-35K-WD-E1-AR8664LX-SG  
[LUMINAIRE]RECESSED 8" OPEN APERTURE DOWNLIGHT  
[TRIM]SEMI-DIFFUSE ANODIZED ALUM, WIDE BEAM  
[OTHER]ACTIVE COOLING  
[OTHER]64 Degree Beam Angle  
[LAMP]N/A  
[LAMPCAT]N/A  
[OTHER]N/A  
[OTHER]Total Luminaire Watts is approximate  
[OTHER]CCT Multipliers: 2700K x 0.959, 3000K x 0.979, 4000K x 1.031  
[OTHER]Catalog Designation Update: 123W changed to 140L  
[OTHER]This report updated by Spectrum Lighting, scaled from Gen2 170L

**CHARACTERISTICS**

|                                 |                    |
|---------------------------------|--------------------|
| Lumens Per Lamp                 | N.A. (absolute)    |
| Total Lamp Lumens               | N.A. (absolute)    |
| Luminaire Lumens                | 9868               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 84                 |
| Total Luminaire Watts           | 116.89             |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Direct             |
| Spacing Criterion (0-180)       | 1.02               |
| Spacing Criterion (90-270)      | 1.02               |
| Spacing Criterion (Diagonal)    | 0.94               |
| Basic Luminous Shape            | Circular           |
| Luminous Length (0-180)         | 0.62 ft (Diameter) |
| Luminous Width (90-270)         | 0.62 ft (Diameter) |
| Luminous Height                 | 0.00 ft            |

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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 26220            | 24372             | 24820             |
| 55                  | 4239             | 3818              | 3849              |
| 65                  | 0                | 0                 | 0                 |
| 75                  | 0                | 0                 | 0                 |
| 85                  | 0                | 0                 | 0                 |

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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>  | 10066.924  | 10066.924   | 10066.924   | 10066.924   | 10066.924   | 10066.924    | 10066.924    | 10066.924    | 10066.924    | 10066.924    |
| <b>2.5</b>  | 9987.085   | 9940.118    | 9922.663    | 9926.333    | 9936.283    | 9926.333     | 9922.663     | 9940.118     | 9987.085     | 9940.118     |
| <b>5.0</b>  | 9799.449   | 9786.237    | 9759.734    | 9725.076    | 9753.210    | 9725.076     | 9759.734     | 9786.237     | 9799.449     | 9786.237     |
| <b>7.5</b>  | 9648.175   | 9640.510    | 9656.819    | 9613.110    | 9611.153    | 9613.110     | 9656.819     | 9640.510     | 9648.175     | 9640.510     |
| <b>10.0</b> | 9527.159   | 9492.257    | 9542.572    | 9548.280    | 9565.731    | 9548.280     | 9542.572     | 9492.257     | 9527.159     | 9492.257     |
| <b>12.5</b> | 9434.277   | 9397.091    | 9400.679    | 9428.406    | 9454.174    | 9428.406     | 9400.679     | 9397.091     | 9434.277     | 9397.091     |
| <b>15.0</b> | 9297.685   | 9276.809    | 9290.346    | 9330.060    | 9352.974    | 9330.060     | 9290.346     | 9276.809     | 9297.685     | 9276.809     |
| <b>17.5</b> | 9180.991   | 9157.669    | 9176.914    | 9213.202    | 9252.019    | 9213.202     | 9176.914     | 9157.669     | 9180.991     | 9157.669     |
| <b>20.0</b> | 8923.465   | 8939.122    | 8940.753    | 8994.330    | 9023.116    | 8994.330     | 8940.753     | 8939.122     | 8923.465     | 8939.122     |
| <b>22.5</b> | 8428.800   | 8414.692    | 8423.010    | 8504.965    | 8494.282    | 8504.965     | 8423.010     | 8414.692     | 8428.800     | 8414.692     |
| <b>25.0</b> | 7729.696   | 7722.927    | 7735.649    | 7750.409    | 7795.015    | 7750.409     | 7735.649     | 7722.927     | 7729.696     | 7722.927     |
| <b>27.5</b> | 6864.072   | 6865.622    | 6849.965    | 6864.725    | 6890.820    | 6864.725     | 6849.965     | 6865.622     | 6864.072     | 6865.622     |
| <b>30.0</b> | 5914.700   | 5874.089    | 5820.024    | 5848.239    | 5838.453    | 5848.239     | 5820.024     | 5874.089     | 5914.700     | 5874.089     |
| <b>32.5</b> | 4845.616   | 4819.439    | 4741.970    | 4760.889    | 4763.498    | 4760.889     | 4741.970     | 4819.439     | 4845.616     | 4819.439     |
| <b>35.0</b> | 3743.098   | 3740.407    | 3660.083    | 3680.796    | 3679.165    | 3680.796     | 3660.083     | 3740.407     | 3743.098     | 3740.407     |
| <b>37.5</b> | 2626.635   | 2638.704    | 2595.158    | 2588.634    | 2579.583    | 2588.634     | 2595.158     | 2638.704     | 2626.635     | 2638.704     |
| <b>40.0</b> | 1672.941   | 1656.958    | 1641.137    | 1620.424    | 1631.026    | 1620.424     | 1641.137     | 1656.958     | 1672.941     | 1656.958     |
| <b>42.5</b> | 930.698    | 900.933     | 869.375     | 902.238     | 896.693     | 902.238      | 869.375      | 900.933      | 930.698      | 900.933      |
| <b>45.0</b> | 520.516    | 501.678     | 483.820     | 485.940     | 492.708     | 485.940      | 483.820      | 501.678      | 520.516      | 501.678      |
| <b>47.5</b> | 305.231    | 290.797     | 276.934     | 273.346     | 282.561     | 273.346      | 276.934      | 290.797      | 305.231      | 290.797      |
| <b>50.0</b> | 186.009    | 175.979     | 167.172     | 166.193     | 168.395     | 166.193      | 167.172      | 175.979      | 186.009      | 175.979      |
| <b>52.5</b> | 111.312    | 110.007     | 104.136     | 102.342     | 104.136     | 102.342      | 104.136      | 110.007      | 111.312      | 110.007      |
| <b>55.0</b> | 68.255     | 66.053      | 61.487      | 61.079      | 61.976      | 61.079       | 61.487       | 66.053       | 68.255       | 66.053       |
| <b>57.5</b> | 38.409     | 36.778      | 35.799      | 35.881      | 36.778      | 35.881       | 35.799       | 36.778       | 38.409       | 36.778       |
| <b>60.0</b> | 19.245     | 20.713      | 19.898      | 19.164      | 17.451      | 19.164       | 19.898       | 20.713       | 19.245       | 20.713       |
| <b>62.5</b> | 6.605      | 6.850       | 7.992       | 8.318       | 5.790       | 8.318        | 7.992        | 6.850        | 6.605        | 6.850        |
| <b>65.0</b> | 0.000      | 1.223       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 1.223        | 0.000        | 1.223        |
| <b>67.5</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| <b>70.0</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| <b>72.5</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| <b>75.0</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| <b>77.5</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| <b>80.0</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| <b>82.5</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| <b>85.0</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| <b>87.5</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| <b>90.0</b> | 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> |
|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>0.0</b>  | 10066.924    | 10066.924    | 10066.924    | 10066.924    | 10066.924    | 10066.924    | 10066.924    |
| <b>2.5</b>  | 9922.663     | 9926.333     | 9936.283     | 9926.333     | 9922.663     | 9940.118     | 9987.085     |
| <b>5.0</b>  | 9759.734     | 9725.076     | 9753.210     | 9725.076     | 9759.734     | 9786.237     | 9799.449     |
| <b>7.5</b>  | 9656.819     | 9613.110     | 9611.153     | 9613.110     | 9656.819     | 9640.510     | 9648.175     |
| <b>10.0</b> | 9542.572     | 9548.280     | 9565.731     | 9548.280     | 9542.572     | 9492.257     | 9527.159     |
| <b>12.5</b> | 9400.679     | 9428.406     | 9454.174     | 9428.406     | 9400.679     | 9397.091     | 9434.277     |
| <b>15.0</b> | 9290.346     | 9330.060     | 9352.974     | 9330.060     | 9290.346     | 9276.809     | 9297.685     |
| <b>17.5</b> | 9176.914     | 9213.202     | 9252.019     | 9213.202     | 9176.914     | 9157.669     | 9180.991     |
| <b>20.0</b> | 8940.753     | 8994.330     | 9023.116     | 8994.330     | 8940.753     | 8939.122     | 8923.465     |
| <b>22.5</b> | 8423.010     | 8504.965     | 8494.282     | 8504.965     | 8423.010     | 8414.692     | 8428.800     |
| <b>25.0</b> | 7735.649     | 7750.409     | 7795.015     | 7750.409     | 7735.649     | 7722.927     | 7729.696     |
| <b>27.5</b> | 6849.965     | 6864.725     | 6890.820     | 6864.725     | 6849.965     | 6865.622     | 6864.072     |
| <b>30.0</b> | 5820.024     | 5848.239     | 5838.453     | 5848.239     | 5820.024     | 5874.089     | 5914.700     |

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**CANDELA TABULATION - (Cont.)**

|             |          |          |          |          |          |          |          |
|-------------|----------|----------|----------|----------|----------|----------|----------|
| <b>32.5</b> | 4741.970 | 4760.889 | 4763.498 | 4760.889 | 4741.970 | 4819.439 | 4845.616 |
| <b>35.0</b> | 3660.083 | 3680.796 | 3679.165 | 3680.796 | 3660.083 | 3740.407 | 3743.098 |
| <b>37.5</b> | 2595.158 | 2588.634 | 2579.583 | 2588.634 | 2595.158 | 2638.704 | 2626.635 |
| <b>40.0</b> | 1641.137 | 1620.424 | 1631.026 | 1620.424 | 1641.137 | 1656.958 | 1672.941 |
| <b>42.5</b> | 869.375  | 902.238  | 896.693  | 902.238  | 869.375  | 900.933  | 930.698  |
| <b>45.0</b> | 483.820  | 485.940  | 492.708  | 485.940  | 483.820  | 501.678  | 520.516  |
| <b>47.5</b> | 276.934  | 273.346  | 282.561  | 273.346  | 276.934  | 290.797  | 305.231  |
| <b>50.0</b> | 167.172  | 166.193  | 168.395  | 166.193  | 167.172  | 175.979  | 186.009  |
| <b>52.5</b> | 104.136  | 102.342  | 104.136  | 102.342  | 104.136  | 110.007  | 111.312  |
| <b>55.0</b> | 61.487   | 61.079   | 61.976   | 61.079   | 61.487   | 66.053   | 68.255   |
| <b>57.5</b> | 35.799   | 35.881   | 36.778   | 35.881   | 35.799   | 36.778   | 38.409   |
| <b>60.0</b> | 19.898   | 19.164   | 17.451   | 19.164   | 19.898   | 20.713   | 19.245   |
| <b>62.5</b> | 7.992    | 8.318    | 5.790    | 8.318    | 7.992    | 6.850    | 6.605    |
| <b>65.0</b> | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 1.223    | 0.000    |
| <b>67.5</b> | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| <b>70.0</b> | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| <b>72.5</b> | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| <b>75.0</b> | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| <b>77.5</b> | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| <b>80.0</b> | 0.163    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| <b>82.5</b> | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| <b>85.0</b> | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| <b>87.5</b> | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    |
| <b>90.0</b> | 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    | 3551.47 | N.A.  | 36.00  |
| 0-30    | 7034.56 | N.A.  | 71.30  |
| 0-40    | 9312.13 | N.A.  | 94.40  |
| 0-60    | 9863.82 | N.A.  | 100.00 |
| 0-80    | 9868.03 | N.A.  | 100.00 |
| 0-90    | 9868.03 | N.A.  | 100.00 |
| 10-90   | 8942.51 | N.A.  | 90.60  |
| 20-40   | 5760.66 | N.A.  | 58.40  |
| 20-50   | 6245.97 | N.A.  | 63.30  |
| 40-70   | 555.90  | N.A.  | 5.60   |
| 60-80   | 4.21    | N.A.  | 0.00   |
| 70-80   | 0.00    | N.A.  | 0.00   |
| 80-90   | 0.00    | N.A.  | 0.00   |
| 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   | 9868.03 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 925.52  |
| 10-20   | 2625.96 |
| 20-30   | 3483.08 |
| 30-40   | 2277.58 |
| 40-50   | 485.31  |
| 50-60   | 66.38   |
| 60-70   | 4.21    |
| 70-80   | 0.00    |
| 80-90   | 0.00    |
| 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    |

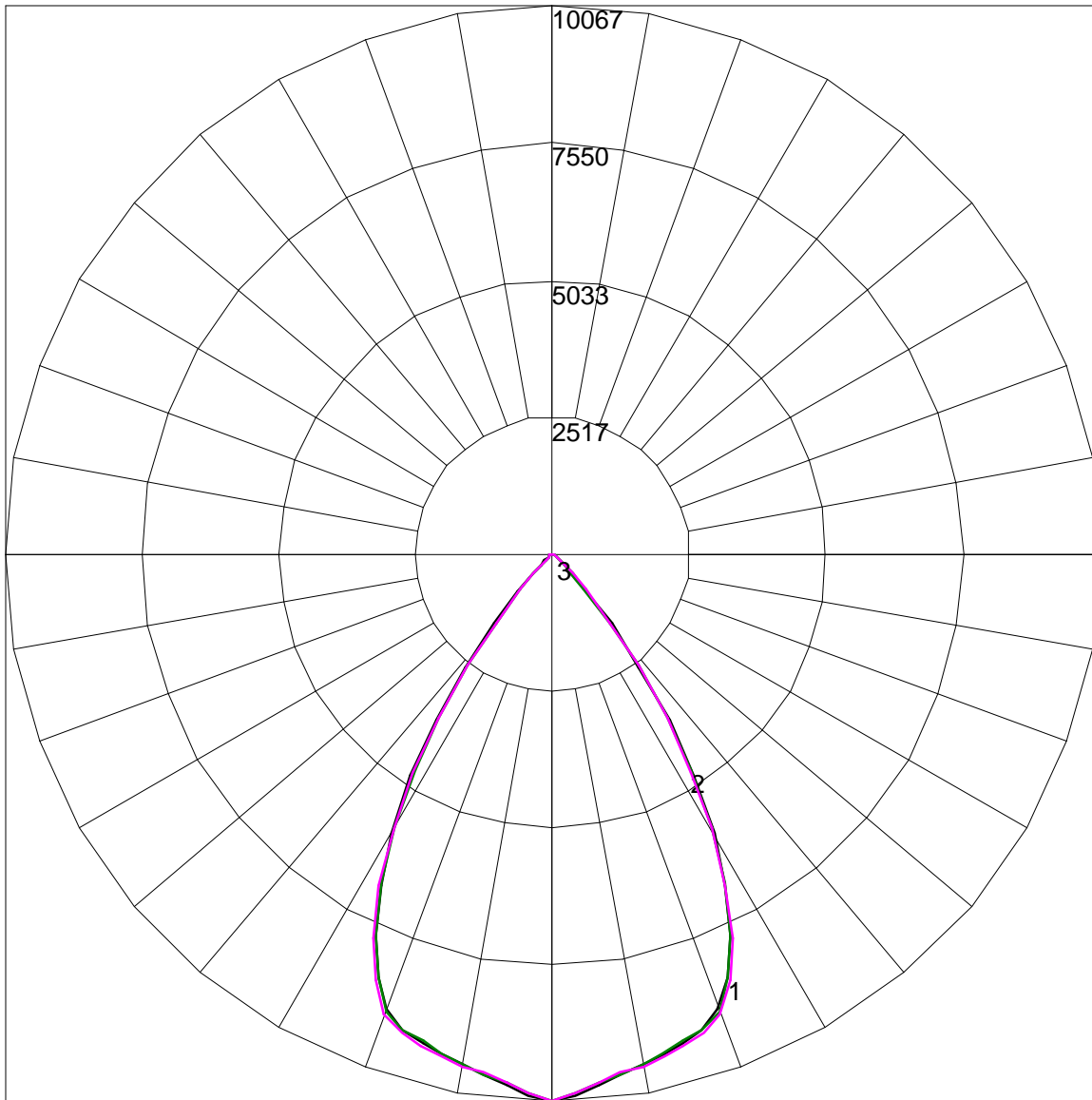
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 | 111 | 108 | 106 | 111 | 109 | 106 | 104 | 105 | 103 | 101 | 101 | 99  | 98  | 97  | 96  | 95  | 94  |
| 2  | 108 | 103 | 99  | 96  | 106 | 101 | 98  | 95  | 98  | 95  | 93  | 95  | 93  | 91  | 92  | 90  | 89  | 87  |
| 3  | 103 | 96  | 91  | 87  | 101 | 95  | 90  | 87  | 92  | 88  | 85  | 90  | 87  | 84  | 87  | 85  | 83  | 81  |
| 4  | 97  | 90  | 84  | 80  | 96  | 89  | 84  | 80  | 87  | 82  | 79  | 85  | 81  | 78  | 83  | 79  | 77  | 75  |
| 5  | 92  | 84  | 78  | 74  | 91  | 83  | 78  | 74  | 81  | 77  | 73  | 80  | 75  | 72  | 78  | 74  | 72  | 70  |
| 6  | 88  | 79  | 73  | 68  | 86  | 78  | 72  | 68  | 76  | 71  | 68  | 75  | 71  | 67  | 74  | 70  | 67  | 65  |
| 7  | 83  | 74  | 68  | 64  | 82  | 73  | 68  | 64  | 72  | 67  | 63  | 71  | 66  | 63  | 70  | 66  | 62  | 61  |
| 8  | 79  | 70  | 64  | 59  | 78  | 69  | 63  | 59  | 68  | 63  | 59  | 67  | 62  | 59  | 66  | 62  | 59  | 57  |
| 9  | 75  | 66  | 60  | 56  | 74  | 65  | 59  | 56  | 64  | 59  | 55  | 63  | 59  | 55  | 62  | 58  | 55  | 54  |
| 10 | 72  | 62  | 56  | 52  | 71  | 61  | 56  | 52  | 61  | 55  | 52  | 60  | 55  | 52  | 59  | 55  | 52  | 50  |

POLAR GRAPH



Maximum Candela = 10066.924 Located At Horizontal Angle = 0, Vertical Angle = 0

# 1 - Vertical Plane Through Horizontal Angles (0 - 180)

# 2 - Vertical Plane Through Horizontal Angles (45 - 225)

# 3 - Vertical Plane Through Horizontal Angles (90 - 270)