



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 6DR-P29-835-DIM-POE-OM-OF-CS.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] GEN From 12326812.04  
[TESTLAB] UL Verification Services Inc.  
[ISSUEDATE] 6/1/2018  
[MANUFAC] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] 6DR-P29-835-DIM-PoE-OM-OF-CS  
[LUMINAIRE] Black formed aluminum housing, specular reflector, no lens  
[MORE] enclosure  
[LAMP] One white LED  
[BALLAST] Philips XI025C070V054DSM5  
[OTHER] 25.5 C, 120.067 V, 0.160092 A, 19.1077 W, 0.994065 PF, 59.9709  
[MORE] Hz  
[OTHER] This test was performed using the calibrated photodetector met  
[MORE] hod of absolute photometry.

**CHARACTERISTICS**

|                                 |                    |
|---------------------------------|--------------------|
| Lumens Per Lamp                 | N.A. (absolute)    |
| Total Lamp Lumens               | N.A. (absolute)    |
| Luminaire Lumens                | 2855               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 114                |
| Total Luminaire Watts           | 25                 |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Direct             |
| Spacing Criterion (0-180)       | 0.58               |
| Spacing Criterion (90-270)      | 0.58               |
| Spacing Criterion (Diagonal)    | 0.68               |
| Basic Luminous Shape            | Circular           |
| Luminous Length (0-180)         | 0.50 ft (Diameter) |
| Luminous Width (90-270)         | 0.50 ft (Diameter) |
| Luminous Height                 | 0.00 ft            |

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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 5152             | 5152              | 5152              |
| 55                  | 1897             | 1897              | 1897              |
| 65                  | 746              | 746               | 746               |
| 75                  | 335              | 335               | 335               |
| 85                  | 271              | 271               | 271               |

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CANDELA TABULATION

|      | <u>0</u> |
|------|----------|
| 0.0  | 5777.669 |
| 0.5  | 5786.307 |
| 1.0  | 5803.584 |
| 1.5  | 5813.662 |
| 2.0  | 5838.138 |
| 2.5  | 5848.216 |
| 3.0  | 5865.493 |
| 3.5  | 5869.812 |
| 4.0  | 5856.854 |
| 4.5  | 5787.747 |
| 5.0  | 5718.639 |
| 5.5  | 5645.213 |
| 6.0  | 5527.154 |
| 6.5  | 5409.096 |
| 7.0  | 5283.839 |
| 7.5  | 5142.744 |
| 8.0  | 4978.614 |
| 8.5  | 4810.165 |
| 9.0  | 4635.956 |
| 9.5  | 4466.067 |
| 10.0 | 4309.136 |
| 10.5 | 4170.921 |
| 11.0 | 4051.423 |
| 11.5 | 3949.201 |
| 12.0 | 3848.420 |
| 12.5 | 3749.078 |
| 13.0 | 3654.055 |
| 13.5 | 3564.791 |
| 14.0 | 3484.166 |
| 14.5 | 3412.179 |
| 15.0 | 3347.391 |
| 15.5 | 3285.482 |
| 16.0 | 3225.013 |
| 16.5 | 3161.665 |
| 17.0 | 3096.877 |
| 17.5 | 3032.088 |
| 18.0 | 2973.059 |
| 18.5 | 2921.228 |
| 19.0 | 2867.958 |
| 19.5 | 2813.248 |
| 20.0 | 2752.779 |
| 20.5 | 2687.991 |
| 21.0 | 2621.763 |
| 21.5 | 2554.095 |
| 22.0 | 2482.108 |
| 22.5 | 2413.001 |
| 23.0 | 2339.574 |
| 23.5 | 2264.708 |
| 24.0 | 2186.962 |
| 24.5 | 2109.216 |
| 25.0 | 2032.910 |
| 25.5 | 1956.604 |
| 26.0 | 1886.057 |
| 26.5 | 1818.389 |

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**CANDELA TABULATION - (Cont.)**

|      |          |
|------|----------|
| 27.0 | 1755.041 |
| 27.5 | 1694.572 |
| 28.0 | 1639.862 |
| 28.5 | 1590.911 |
| 29.0 | 1544.839 |
| 29.5 | 1500.207 |
| 30.0 | 1444.057 |
| 30.5 | 1373.798 |
| 31.0 | 1293.173 |
| 31.5 | 1204.485 |
| 32.0 | 1114.501 |
| 32.5 | 1023.942 |
| 33.0 | 933.382  |
| 33.5 | 838.359  |
| 34.0 | 741.897  |
| 34.5 | 653.929  |
| 35.0 | 569.416  |
| 35.5 | 489.655  |
| 36.0 | 412.917  |
| 36.5 | 344.241  |
| 37.0 | 287.948  |
| 37.5 | 248.355  |
| 38.0 | 227.047  |
| 38.5 | 212.649  |
| 39.0 | 198.252  |
| 39.5 | 182.991  |
| 40.0 | 166.722  |
| 40.5 | 149.445  |
| 41.0 | 132.888  |
| 41.5 | 117.483  |
| 42.0 | 104.381  |
| 42.5 | 94.015   |
| 43.0 | 85.952   |
| 43.5 | 79.761   |
| 44.0 | 74.578   |
| 44.5 | 70.403   |
| 45.0 | 66.516   |
| 45.5 | 63.204   |
| 46.0 | 60.037   |
| 46.5 | 57.158   |
| 47.0 | 54.278   |
| 47.5 | 51.543   |
| 48.0 | 48.807   |
| 48.5 | 46.072   |
| 49.0 | 43.336   |
| 49.5 | 40.889   |
| 50.0 | 38.585   |
| 50.5 | 36.281   |
| 51.0 | 34.122   |
| 51.5 | 31.962   |
| 52.0 | 29.803   |
| 52.5 | 27.931   |
| 53.0 | 26.059   |
| 53.5 | 24.332   |
| 54.0 | 22.748   |
| 54.5 | 21.308   |

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**PHOTOMETRIC FILENAME : 6DR-P29-835-DIM-POE-OM-OF-CS.IES**

**CANDELA TABULATION - (Cont.)**

|      |        |
|------|--------|
| 55.0 | 19.868 |
| 55.5 | 18.717 |
| 56.0 | 17.421 |
| 56.5 | 16.413 |
| 57.0 | 15.405 |
| 57.5 | 14.397 |
| 58.0 | 13.534 |
| 58.5 | 12.670 |
| 59.0 | 11.950 |
| 59.5 | 11.230 |
| 60.0 | 10.510 |
| 60.5 | 9.790  |
| 61.0 | 9.214  |
| 61.5 | 8.638  |
| 62.0 | 8.207  |
| 62.5 | 7.775  |
| 63.0 | 7.199  |
| 63.5 | 6.911  |
| 64.0 | 6.479  |
| 64.5 | 6.047  |
| 65.0 | 5.759  |
| 65.5 | 5.327  |
| 66.0 | 5.039  |
| 66.5 | 4.751  |
| 67.0 | 4.463  |
| 67.5 | 4.175  |
| 68.0 | 4.031  |
| 68.5 | 3.743  |
| 69.0 | 3.455  |
| 69.5 | 3.311  |
| 70.0 | 3.167  |
| 70.5 | 2.879  |
| 71.0 | 2.736  |
| 71.5 | 2.592  |
| 72.0 | 2.448  |
| 72.5 | 2.304  |
| 73.0 | 2.160  |
| 73.5 | 2.016  |
| 74.0 | 1.872  |
| 74.5 | 1.728  |
| 75.0 | 1.584  |
| 75.5 | 1.584  |
| 76.0 | 1.440  |
| 76.5 | 1.296  |
| 77.0 | 1.296  |
| 77.5 | 1.152  |
| 78.0 | 1.152  |
| 78.5 | 1.008  |
| 79.0 | 1.008  |
| 79.5 | 0.864  |
| 80.0 | 0.864  |
| 80.5 | 0.720  |
| 81.0 | 0.720  |
| 81.5 | 0.720  |
| 82.0 | 0.576  |
| 82.5 | 0.576  |

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PHOTOMETRIC FILENAME : 6DR-P29-835-DIM-POE-OM-OF-CS.IES

CANDELA TABULATION - (Cont.)

|       |       |
|-------|-------|
| 83.0  | 0.576 |
| 83.5  | 0.432 |
| 84.0  | 0.432 |
| 84.5  | 0.432 |
| 85.0  | 0.432 |
| 85.5  | 0.288 |
| 86.0  | 0.288 |
| 86.5  | 0.288 |
| 87.0  | 0.288 |
| 87.5  | 0.288 |
| 88.0  | 0.144 |
| 88.5  | 0.144 |
| 89.0  | 0.144 |
| 89.5  | 0.144 |
| 90.0  | 0.144 |
| 90.5  | 0.000 |
| 91.0  | 0.000 |
| 91.5  | 0.000 |
| 92.0  | 0.000 |
| 92.5  | 0.000 |
| 93.0  | 0.000 |
| 93.5  | 0.000 |
| 94.0  | 0.000 |
| 94.5  | 0.000 |
| 95.0  | 0.000 |
| 95.5  | 0.000 |
| 96.0  | 0.000 |
| 96.5  | 0.000 |
| 97.0  | 0.000 |
| 97.5  | 0.000 |
| 98.0  | 0.000 |
| 98.5  | 0.000 |
| 99.0  | 0.000 |
| 99.5  | 0.000 |
| 100.0 | 0.000 |
| 100.5 | 0.000 |
| 101.0 | 0.000 |
| 101.5 | 0.000 |
| 102.0 | 0.000 |
| 102.5 | 0.000 |
| 103.0 | 0.000 |
| 103.5 | 0.000 |
| 104.0 | 0.000 |
| 104.5 | 0.000 |
| 105.0 | 0.000 |
| 105.5 | 0.000 |
| 106.0 | 0.000 |
| 106.5 | 0.000 |
| 107.0 | 0.000 |
| 107.5 | 0.000 |
| 108.0 | 0.000 |
| 108.5 | 0.000 |
| 109.0 | 0.000 |
| 109.5 | 0.000 |
| 110.0 | 0.000 |
| 110.5 | 0.000 |

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 6DR-P29-835-DIM-POE-OM-OF-CS.IES

CANDELA TABULATION - (Cont.)

|       |       |
|-------|-------|
| 111.0 | 0.000 |
| 111.5 | 0.000 |
| 112.0 | 0.000 |
| 112.5 | 0.000 |
| 113.0 | 0.000 |
| 113.5 | 0.000 |
| 114.0 | 0.000 |
| 114.5 | 0.000 |
| 115.0 | 0.000 |
| 115.5 | 0.000 |
| 116.0 | 0.000 |
| 116.5 | 0.000 |
| 117.0 | 0.000 |
| 117.5 | 0.000 |
| 118.0 | 0.000 |
| 118.5 | 0.000 |
| 119.0 | 0.000 |
| 119.5 | 0.000 |
| 120.0 | 0.000 |
| 120.5 | 0.000 |
| 121.0 | 0.000 |
| 121.5 | 0.000 |
| 122.0 | 0.000 |
| 122.5 | 0.000 |
| 123.0 | 0.000 |
| 123.5 | 0.000 |
| 124.0 | 0.000 |
| 124.5 | 0.000 |
| 125.0 | 0.000 |
| 125.5 | 0.000 |
| 126.0 | 0.000 |
| 126.5 | 0.000 |
| 127.0 | 0.000 |
| 127.5 | 0.000 |
| 128.0 | 0.000 |
| 128.5 | 0.000 |
| 129.0 | 0.000 |
| 129.5 | 0.000 |
| 130.0 | 0.000 |
| 130.5 | 0.000 |
| 131.0 | 0.000 |
| 131.5 | 0.000 |
| 132.0 | 0.000 |
| 132.5 | 0.000 |
| 133.0 | 0.000 |
| 133.5 | 0.000 |
| 134.0 | 0.000 |
| 134.5 | 0.000 |
| 135.0 | 0.000 |
| 135.5 | 0.000 |
| 136.0 | 0.000 |
| 136.5 | 0.000 |
| 137.0 | 0.000 |
| 137.5 | 0.000 |
| 138.0 | 0.000 |
| 138.5 | 0.000 |

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PHOTOMETRIC FILENAME : 6DR-P29-835-DIM-POE-OM-OF-CS.IES

CANDELA TABULATION - (Cont.)

|       |       |
|-------|-------|
| 139.0 | 0.000 |
| 139.5 | 0.000 |
| 140.0 | 0.000 |
| 140.5 | 0.000 |
| 141.0 | 0.000 |
| 141.5 | 0.000 |
| 142.0 | 0.000 |
| 142.5 | 0.000 |
| 143.0 | 0.000 |
| 143.5 | 0.000 |
| 144.0 | 0.000 |
| 144.5 | 0.000 |
| 145.0 | 0.000 |
| 145.5 | 0.000 |
| 146.0 | 0.000 |
| 146.5 | 0.000 |
| 147.0 | 0.000 |
| 147.5 | 0.000 |
| 148.0 | 0.000 |
| 148.5 | 0.000 |
| 149.0 | 0.000 |
| 149.5 | 0.000 |
| 150.0 | 0.000 |
| 150.5 | 0.000 |
| 151.0 | 0.000 |
| 151.5 | 0.000 |
| 152.0 | 0.000 |
| 152.5 | 0.000 |
| 153.0 | 0.000 |
| 153.5 | 0.000 |
| 154.0 | 0.000 |
| 154.5 | 0.000 |
| 155.0 | 0.000 |
| 155.5 | 0.000 |
| 156.0 | 0.000 |
| 156.5 | 0.000 |
| 157.0 | 0.000 |
| 157.5 | 0.000 |
| 158.0 | 0.000 |
| 158.5 | 0.000 |
| 159.0 | 0.000 |
| 159.5 | 0.000 |
| 160.0 | 0.000 |
| 160.5 | 0.000 |
| 161.0 | 0.000 |
| 161.5 | 0.000 |
| 162.0 | 0.000 |
| 162.5 | 0.000 |
| 163.0 | 0.000 |
| 163.5 | 0.000 |
| 164.0 | 0.000 |
| 164.5 | 0.000 |
| 165.0 | 0.000 |
| 165.5 | 0.000 |
| 166.0 | 0.000 |
| 166.5 | 0.000 |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 6DR-P29-835-DIM-POE-OM-OF-CS.IES**

**CANDELA TABULATION - (Cont.)**

|       |       |
|-------|-------|
| 167.0 | 0.000 |
| 167.5 | 0.000 |
| 168.0 | 0.000 |
| 168.5 | 0.000 |
| 169.0 | 0.000 |
| 169.5 | 0.000 |
| 170.0 | 0.000 |
| 170.5 | 0.000 |
| 171.0 | 0.000 |
| 171.5 | 0.000 |
| 172.0 | 0.000 |
| 172.5 | 0.000 |
| 173.0 | 0.000 |
| 173.5 | 0.000 |
| 174.0 | 0.000 |
| 174.5 | 0.000 |
| 175.0 | 0.000 |
| 175.5 | 0.000 |
| 176.0 | 0.000 |
| 176.5 | 0.000 |
| 177.0 | 0.000 |
| 177.5 | 0.000 |
| 178.0 | 0.000 |
| 178.5 | 0.000 |
| 179.0 | 0.000 |
| 179.5 | 0.000 |
| 180.0 | 0.000 |



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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 1440.84 | N.A.  | 50.50  |
| 0-30    | 2374.16 | N.A.  | 83.20  |
| 0-40    | 2769.1  | N.A.  | 97.00  |
| 0-60    | 2846.71 | N.A.  | 99.70  |
| 0-80    | 2854.53 | N.A.  | 100.00 |
| 0-90    | 2854.97 | N.A.  | 100.00 |
| 10-90   | 2357.15 | N.A.  | 82.60  |
| 20-40   | 1328.26 | N.A.  | 46.50  |
| 20-50   | 1386.8  | N.A.  | 48.60  |
| 40-70   | 83.58   | N.A.  | 2.90   |
| 60-80   | 7.81    | N.A.  | 0.30   |
| 70-80   | 1.85    | N.A.  | 0.10   |
| 80-90   | 0.44    | 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   | 2854.97 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 497.82 |
| 10-20   | 943.02 |
| 20-30   | 933.32 |
| 30-40   | 394.94 |
| 40-50   | 58.54  |
| 50-60   | 19.07  |
| 60-70   | 5.96   |
| 70-80   | 1.85   |
| 80-90   | 0.44   |
| 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   |

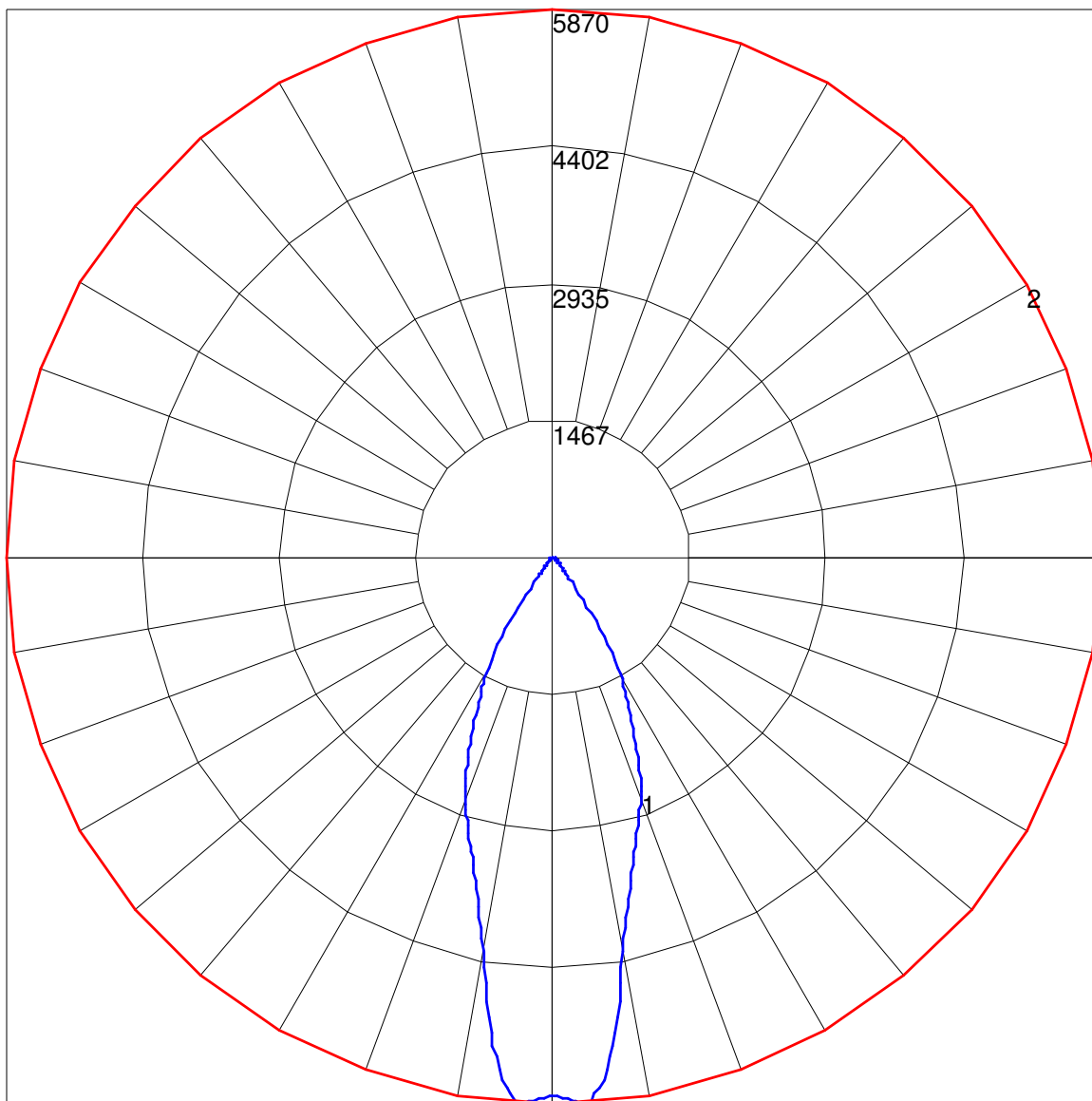
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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  | 171 | 171 | 171 | 171 | 167 | 167 | 167 | 167 | 160 | 160 | 160 | 153 | 153 | 153 | 147 | 147 | 147 | 144 |
| 1  | 164 | 161 | 157 | 154 | 161 | 158 | 155 | 152 | 152 | 149 | 147 | 146 | 145 | 143 | 142 | 140 | 139 | 136 |
| 2  | 157 | 151 | 146 | 141 | 154 | 148 | 144 | 140 | 144 | 140 | 137 | 140 | 136 | 134 | 136 | 133 | 131 | 129 |
| 3  | 150 | 142 | 136 | 131 | 148 | 140 | 134 | 129 | 136 | 132 | 127 | 133 | 129 | 125 | 130 | 126 | 124 | 121 |
| 4  | 144 | 134 | 127 | 122 | 141 | 133 | 126 | 121 | 130 | 124 | 120 | 127 | 122 | 118 | 124 | 120 | 117 | 115 |
| 5  | 138 | 127 | 120 | 114 | 135 | 126 | 119 | 113 | 123 | 117 | 112 | 121 | 116 | 112 | 119 | 114 | 111 | 109 |
| 6  | 132 | 120 | 113 | 107 | 130 | 119 | 112 | 107 | 117 | 111 | 106 | 115 | 110 | 106 | 114 | 109 | 105 | 103 |
| 7  | 126 | 114 | 107 | 101 | 125 | 114 | 106 | 101 | 112 | 105 | 101 | 110 | 104 | 100 | 109 | 103 | 100 | 98  |
| 8  | 121 | 109 | 101 | 96  | 120 | 108 | 101 | 96  | 107 | 100 | 95  | 105 | 99  | 95  | 104 | 99  | 95  | 93  |
| 9  | 116 | 104 | 96  | 91  | 115 | 103 | 96  | 91  | 102 | 95  | 91  | 101 | 95  | 91  | 100 | 94  | 90  | 89  |
| 10 | 112 | 99  | 92  | 87  | 110 | 99  | 92  | 87  | 98  | 91  | 87  | 97  | 91  | 86  | 96  | 90  | 86  | 84  |

POLAR GRAPH



Maximum Candela = 5869.812 Located At Horizontal Angle = 0, Vertical Angle = 3.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (3.5) (Through Max. Cd.)