



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L80-835-DIM-LW-OF-WH.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN from 12326812.07  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUE DATE] 6/1/2018  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] 6DR-TL-L80-835-DIM-LW-OF-WH  
 [LUMINAIRE] Black formed aluminum housing, white reflector, clear glass  
 [MORE] s patterned lens enclosure  
 [LAMP] One white LED  
 [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                | 6115               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 77                 |
| Total Luminaire Watts           | 79.8               |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Direct             |
| Spacing Criterion (0-180)       | 1.08               |
| Spacing Criterion (90-270)      | 1.08               |
| Spacing Criterion (Diagonal)    | 0.98               |
| Basic Luminous Shape            | Circular           |
| Luminous Length (0-180)         | 0.46 ft (Diameter) |
| Luminous Width (90-270)         | 0.46 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                  | 101652           | 101652            | 101652            |
| 55                  | 84629            | 84629             | 84629             |
| 65                  | 64294            | 64294             | 64294             |
| 75                  | 46625            | 46625             | 46625             |
| 85                  | 30384            | 30384             | 30384             |

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CANDELA TABULATION

|      | <u>0</u> |
|------|----------|
| 0.0  | 3889.763 |
| 0.5  | 3888.979 |
| 1.0  | 3885.847 |
| 1.5  | 3881.147 |
| 2.0  | 3875.273 |
| 2.5  | 3867.441 |
| 3.0  | 3859.609 |
| 3.5  | 3850.603 |
| 4.0  | 3842.379 |
| 4.5  | 3834.155 |
| 5.0  | 3828.281 |
| 5.5  | 3822.799 |
| 6.0  | 3817.708 |
| 6.5  | 3812.617 |
| 7.0  | 3807.135 |
| 7.5  | 3802.044 |
| 8.0  | 3796.953 |
| 8.5  | 3792.254 |
| 9.0  | 3787.555 |
| 9.5  | 3783.639 |
| 10.0 | 3779.723 |
| 10.5 | 3776.590 |
| 11.0 | 3773.849 |
| 11.5 | 3772.283 |
| 12.0 | 3769.541 |
| 12.5 | 3766.800 |
| 13.0 | 3762.884 |
| 13.5 | 3757.793 |
| 14.0 | 3751.528 |
| 14.5 | 3744.479 |
| 15.0 | 3737.039 |
| 15.5 | 3727.640 |
| 16.0 | 3717.459 |
| 16.5 | 3707.277 |
| 17.0 | 3697.095 |
| 17.5 | 3686.522 |
| 18.0 | 3675.166 |
| 18.5 | 3662.243 |
| 19.0 | 3647.754 |
| 19.5 | 3631.698 |
| 20.0 | 3613.293 |
| 20.5 | 3593.321 |
| 21.0 | 3568.651 |
| 21.5 | 3539.281 |
| 22.0 | 3505.995 |
| 22.5 | 3468.401 |
| 23.0 | 3427.283 |
| 23.5 | 3382.641 |
| 24.0 | 3333.299 |
| 24.5 | 3280.042 |
| 25.0 | 3222.476 |
| 25.5 | 3162.562 |
| 26.0 | 3098.731 |
| 26.5 | 3032.159 |

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**CANDELA TABULATION - (Cont.)**

|      |          |
|------|----------|
| 27.0 | 2961.279 |
| 27.5 | 2888.442 |
| 28.0 | 2811.688 |
| 28.5 | 2730.627 |
| 29.0 | 2646.433 |
| 29.5 | 2557.931 |
| 30.0 | 2467.080 |
| 30.5 | 2373.488 |
| 31.0 | 2279.895 |
| 31.5 | 2185.520 |
| 32.0 | 2093.885 |
| 32.5 | 2006.167 |
| 33.0 | 1921.973 |
| 33.5 | 1843.261 |
| 34.0 | 1770.815 |
| 34.5 | 1705.026 |
| 35.0 | 1646.286 |
| 35.5 | 1592.246 |
| 36.0 | 1544.862 |
| 36.5 | 1501.394 |
| 37.0 | 1462.626 |
| 37.5 | 1427.774 |
| 38.0 | 1396.054 |
| 38.5 | 1367.076 |
| 39.0 | 1339.664 |
| 39.5 | 1314.993 |
| 40.0 | 1291.105 |
| 40.5 | 1268.784 |
| 41.0 | 1248.029 |
| 41.5 | 1227.666 |
| 42.0 | 1208.086 |
| 42.5 | 1190.072 |
| 43.0 | 1171.667 |
| 43.5 | 1153.654 |
| 44.0 | 1136.032 |
| 44.5 | 1118.801 |
| 45.0 | 1101.179 |
| 45.5 | 1084.340 |
| 46.0 | 1067.110 |
| 46.5 | 1049.880 |
| 47.0 | 1032.258 |
| 47.5 | 1015.027 |
| 48.0 | 997.405  |
| 48.5 | 979.783  |
| 49.0 | 962.161  |
| 49.5 | 943.756  |
| 50.0 | 926.134  |
| 50.5 | 908.120  |
| 51.0 | 890.107  |
| 51.5 | 871.702  |
| 52.0 | 853.296  |
| 52.5 | 834.891  |
| 53.0 | 816.486  |
| 53.5 | 798.081  |
| 54.0 | 780.459  |
| 54.5 | 762.445  |

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**CANDELA TABULATION - (Cont.)**

|      |         |
|------|---------|
| 55.0 | 743.648 |
| 55.5 | 725.243 |
| 56.0 | 706.838 |
| 56.5 | 689.608 |
| 57.0 | 672.377 |
| 57.5 | 654.364 |
| 58.0 | 636.350 |
| 58.5 | 618.728 |
| 59.0 | 601.498 |
| 59.5 | 584.267 |
| 60.0 | 567.820 |
| 60.5 | 551.373 |
| 61.0 | 535.317 |
| 61.5 | 519.262 |
| 62.0 | 503.989 |
| 62.5 | 488.717 |
| 63.0 | 473.836 |
| 63.5 | 458.955 |
| 64.0 | 444.466 |
| 64.5 | 430.368 |
| 65.0 | 416.271 |
| 65.5 | 402.565 |
| 66.0 | 388.898 |
| 66.5 | 375.466 |
| 67.0 | 362.191 |
| 67.5 | 349.190 |
| 68.0 | 336.424 |
| 68.5 | 323.618 |
| 69.0 | 311.205 |
| 69.5 | 298.908 |
| 70.0 | 286.964 |
| 70.5 | 275.412 |
| 71.0 | 264.095 |
| 71.5 | 253.130 |
| 72.0 | 242.557 |
| 72.5 | 232.297 |
| 73.0 | 222.311 |
| 73.5 | 212.521 |
| 74.0 | 203.123 |
| 74.5 | 193.920 |
| 75.0 | 184.874 |
| 75.5 | 176.142 |
| 76.0 | 167.566 |
| 76.5 | 159.146 |
| 77.0 | 150.962 |
| 77.5 | 142.934 |
| 78.0 | 135.141 |
| 78.5 | 127.505 |
| 79.0 | 120.025 |
| 79.5 | 112.820 |
| 80.0 | 105.654 |
| 80.5 | 98.722  |
| 81.0 | 91.869  |
| 81.5 | 85.056  |
| 82.0 | 78.398  |
| 82.5 | 71.780  |

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CANDELA TABULATION - (Cont.)

|       |        |
|-------|--------|
| 83.0  | 65.319 |
| 83.5  | 58.975 |
| 84.0  | 52.709 |
| 84.5  | 46.561 |
| 85.0  | 40.570 |
| 85.5  | 34.774 |
| 86.0  | 29.174 |
| 86.5  | 23.770 |
| 87.0  | 18.523 |
| 87.5  | 14.137 |
| 88.0  | 10.808 |
| 88.5  | 7.910  |
| 89.0  | 5.482  |
| 89.5  | 3.446  |
| 90.0  | 2.193  |
| 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-TL-L80-835-DIM-LW-OF-WH.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 |

IES INDOOR REPORT  
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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 |

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**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 |



**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 1416.91 | N.A.  | 23.20  |
| 0-30    | 2864.16 | N.A.  | 46.80  |
| 0-40    | 3937.31 | N.A.  | 64.40  |
| 0-60    | 5452.57 | N.A.  | 89.20  |
| 0-80    | 6066.32 | N.A.  | 99.20  |
| 0-90    | 6114.82 | N.A.  | 100.00 |
| 10-90   | 5750.82 | N.A.  | 94.00  |
| 20-40   | 2520.39 | N.A.  | 41.20  |
| 20-50   | 3370.76 | N.A.  | 55.10  |
| 40-70   | 1930.2  | N.A.  | 31.60  |
| 60-80   | 613.76  | N.A.  | 10.00  |
| 70-80   | 198.82  | N.A.  | 3.30   |
| 80-90   | 48.50   | N.A.  | 0.80   |
| 90-110  | 0.06    | N.A.  | 0.00   |
| 90-120  | 0.06    | N.A.  | 0.00   |
| 90-130  | 0.06    | N.A.  | 0.00   |
| 90-150  | 0.06    | N.A.  | 0.00   |
| 90-180  | 0.06    | N.A.  | 0.00   |
| 110-180 | 0.00    | N.A.  | 0.00   |
| 0-180   | 6114.88 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 364.00  |
| 10-20   | 1052.91 |
| 20-30   | 1447.24 |
| 30-40   | 1073.15 |
| 40-50   | 850.37  |
| 50-60   | 664.89  |
| 60-70   | 414.94  |
| 70-80   | 198.82  |
| 80-90   | 48.50   |
| 90-100  | 0.06    |
| 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    |

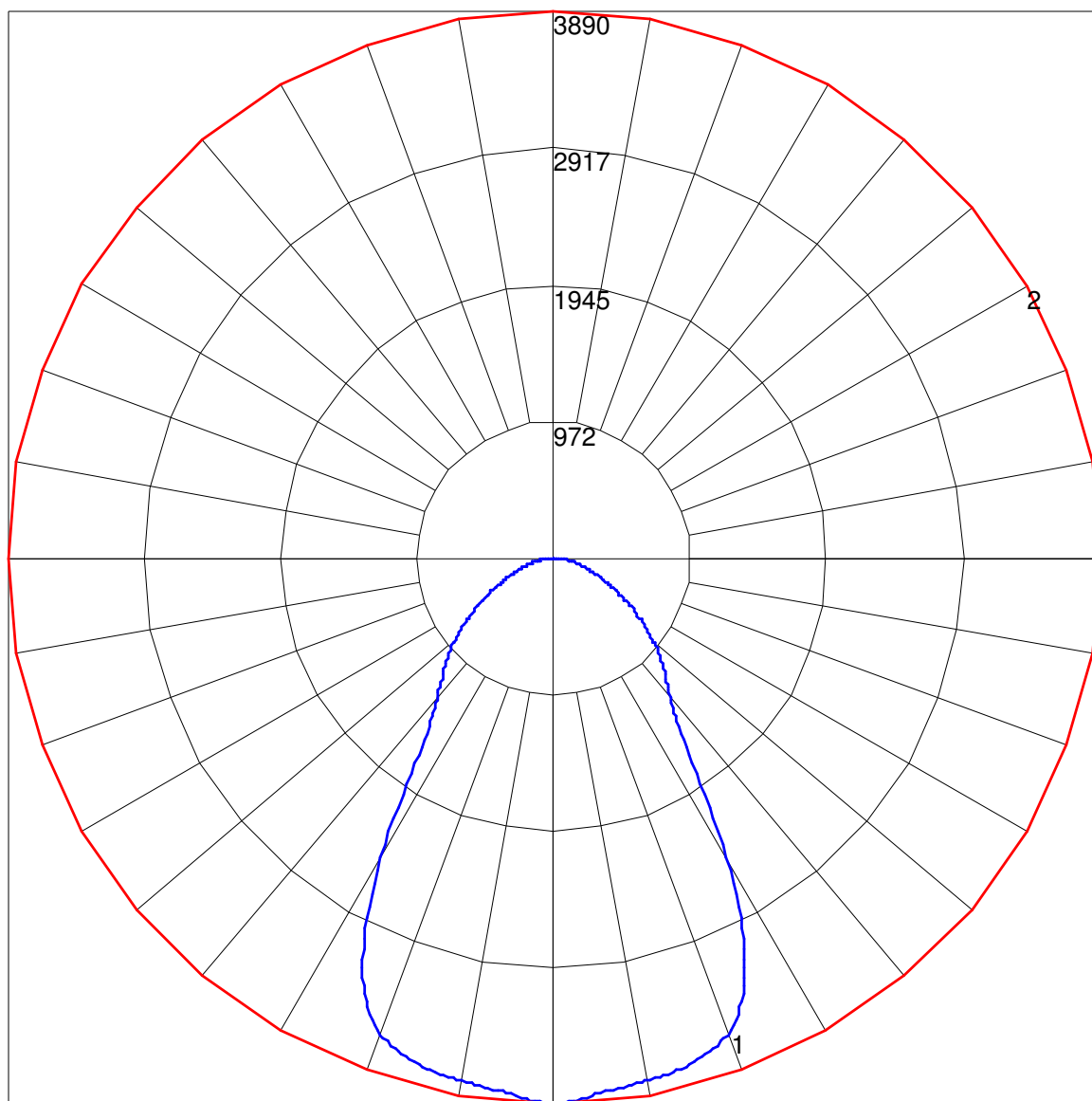
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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  | 466 | 466 | 466 | 466 | 455 | 455 | 455 | 455 | 435 | 435 | 435 | 416 | 416 | 416 | 399 | 399 | 399 | 391 |
| 1  | 434 | 419 | 406 | 394 | 424 | 411 | 399 | 388 | 394 | 385 | 375 | 380 | 371 | 364 | 366 | 359 | 353 | 346 |
| 2  | 403 | 377 | 355 | 337 | 394 | 370 | 350 | 333 | 356 | 340 | 325 | 344 | 330 | 318 | 333 | 321 | 311 | 304 |
| 3  | 374 | 340 | 314 | 293 | 365 | 334 | 310 | 290 | 323 | 302 | 285 | 313 | 295 | 280 | 303 | 289 | 276 | 268 |
| 4  | 348 | 309 | 280 | 258 | 340 | 304 | 277 | 256 | 295 | 271 | 253 | 286 | 266 | 250 | 278 | 261 | 247 | 239 |
| 5  | 325 | 282 | 252 | 230 | 317 | 278 | 250 | 229 | 270 | 245 | 227 | 263 | 241 | 224 | 256 | 237 | 222 | 215 |
| 6  | 304 | 259 | 229 | 207 | 297 | 255 | 227 | 206 | 249 | 224 | 205 | 243 | 220 | 203 | 237 | 217 | 202 | 195 |
| 7  | 285 | 239 | 209 | 188 | 279 | 236 | 208 | 188 | 230 | 205 | 186 | 225 | 202 | 185 | 220 | 200 | 184 | 177 |
| 8  | 268 | 221 | 192 | 172 | 262 | 219 | 191 | 172 | 214 | 189 | 171 | 210 | 187 | 170 | 205 | 185 | 169 | 163 |
| 9  | 252 | 206 | 178 | 158 | 247 | 204 | 177 | 158 | 200 | 175 | 157 | 196 | 173 | 157 | 192 | 171 | 156 | 150 |
| 10 | 239 | 192 | 165 | 147 | 234 | 191 | 164 | 146 | 187 | 163 | 146 | 184 | 161 | 145 | 180 | 160 | 145 | 139 |

POLAR GRAPH



Maximum Candela = 3889.763 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)