



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DR-TL-L15-830-(L11)-DIM-UNV-OM-OF-CS.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM 12326812.22
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 6/7/2018
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 6DR-TL-L15-830-(L11)-DIM-UNV-OM-OF-CS
 [LUMINAIRE] Black formed aluminum housing, specular reflector, no lens
 [MORE] enclosure
 [LAMP] One white LED
 [BALLAST] Philips XI036C100V054DSM5
 [OTHER] 25.2 C, 119.981 V, 10 W, 0.997477 PF, 59.9994
 [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 | 1065 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 107 |
| Total Luminaire Watts | 10 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.64 |
| Spacing Criterion (90-270) | 0.64 |
| Spacing Criterion (Diagonal) | 0.72 |
| 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 Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 1923 | 1923 | 1923 |
| 55 | 709 | 709 | 709 |
| 65 | 282 | 282 | 282 |
| 75 | 157 | 157 | 157 |
| 85 | 150 | 150 | 150 |

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CANDELA TABULATION

| | <u>0</u> |
|------|----------|
| 0.0 | 1982.024 |
| 0.5 | 1987.858 |
| 1.0 | 2003.504 |
| 1.5 | 2029.228 |
| 2.0 | 2052.034 |
| 2.5 | 2074.310 |
| 3.0 | 2095.525 |
| 3.5 | 2112.232 |
| 4.0 | 2124.165 |
| 4.5 | 2120.718 |
| 5.0 | 2102.685 |
| 5.5 | 2077.227 |
| 6.0 | 2042.487 |
| 6.5 | 2000.853 |
| 7.0 | 1954.444 |
| 7.5 | 1905.119 |
| 8.0 | 1850.755 |
| 8.5 | 1792.149 |
| 9.0 | 1731.155 |
| 9.5 | 1672.018 |
| 10.0 | 1617.389 |
| 10.5 | 1566.207 |
| 11.0 | 1517.413 |
| 11.5 | 1472.596 |
| 12.0 | 1432.817 |
| 12.5 | 1397.017 |
| 13.0 | 1363.603 |
| 13.5 | 1332.045 |
| 14.0 | 1302.609 |
| 14.5 | 1275.560 |
| 15.0 | 1248.776 |
| 15.5 | 1223.583 |
| 16.0 | 1199.451 |
| 16.5 | 1176.114 |
| 17.0 | 1153.308 |
| 17.5 | 1130.236 |
| 18.0 | 1107.165 |
| 18.5 | 1083.563 |
| 19.0 | 1059.961 |
| 19.5 | 1036.359 |
| 20.0 | 1013.023 |
| 20.5 | 989.686 |
| 21.0 | 965.554 |
| 21.5 | 940.361 |
| 22.0 | 914.903 |
| 22.5 | 889.445 |
| 23.0 | 863.721 |
| 23.5 | 837.467 |
| 24.0 | 811.214 |
| 24.5 | 785.225 |
| 25.0 | 760.032 |
| 25.5 | 734.839 |
| 26.0 | 709.911 |
| 26.5 | 686.044 |

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CANDELA TABULATION - (Cont.)

| | |
|------|---------|
| 27.0 | 663.503 |
| 27.5 | 642.553 |
| 28.0 | 622.399 |
| 28.5 | 603.571 |
| 29.0 | 586.068 |
| 29.5 | 567.770 |
| 30.0 | 546.555 |
| 30.5 | 522.423 |
| 31.0 | 496.699 |
| 31.5 | 469.120 |
| 32.0 | 438.093 |
| 32.5 | 401.762 |
| 33.0 | 362.248 |
| 33.5 | 321.675 |
| 34.0 | 281.366 |
| 34.5 | 242.197 |
| 35.0 | 205.999 |
| 35.5 | 174.150 |
| 36.0 | 148.347 |
| 36.5 | 126.734 |
| 37.0 | 108.118 |
| 37.5 | 93.055 |
| 38.0 | 82.315 |
| 38.5 | 75.765 |
| 39.0 | 70.726 |
| 39.5 | 65.740 |
| 40.0 | 60.596 |
| 40.5 | 55.637 |
| 41.0 | 50.757 |
| 41.5 | 46.037 |
| 42.0 | 41.661 |
| 42.5 | 37.551 |
| 43.0 | 33.759 |
| 43.5 | 30.735 |
| 44.0 | 28.349 |
| 44.5 | 26.386 |
| 45.0 | 24.822 |
| 45.5 | 23.416 |
| 46.0 | 22.223 |
| 46.5 | 21.109 |
| 47.0 | 20.075 |
| 47.5 | 19.120 |
| 48.0 | 18.139 |
| 48.5 | 17.237 |
| 49.0 | 16.283 |
| 49.5 | 15.301 |
| 50.0 | 14.347 |
| 50.5 | 13.472 |
| 51.0 | 12.676 |
| 51.5 | 11.827 |
| 52.0 | 11.058 |
| 52.5 | 10.342 |
| 53.0 | 9.626 |
| 53.5 | 9.043 |
| 54.0 | 8.486 |
| 54.5 | 7.876 |

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CANDELA TABULATION - (Cont.)

| | |
|------|-------|
| 55.0 | 7.425 |
| 55.5 | 6.948 |
| 56.0 | 6.524 |
| 56.5 | 6.152 |
| 57.0 | 5.728 |
| 57.5 | 5.410 |
| 58.0 | 5.118 |
| 58.5 | 4.773 |
| 59.0 | 4.482 |
| 59.5 | 4.217 |
| 60.0 | 3.925 |
| 60.5 | 3.739 |
| 61.0 | 3.527 |
| 61.5 | 3.315 |
| 62.0 | 3.103 |
| 62.5 | 2.944 |
| 63.0 | 2.758 |
| 63.5 | 2.625 |
| 64.0 | 2.440 |
| 64.5 | 2.360 |
| 65.0 | 2.175 |
| 65.5 | 2.068 |
| 66.0 | 1.989 |
| 66.5 | 1.856 |
| 67.0 | 1.750 |
| 67.5 | 1.618 |
| 68.0 | 1.591 |
| 68.5 | 1.485 |
| 69.0 | 1.379 |
| 69.5 | 1.299 |
| 70.0 | 1.273 |
| 70.5 | 1.167 |
| 71.0 | 1.087 |
| 71.5 | 1.140 |
| 72.0 | 1.008 |
| 72.5 | 0.955 |
| 73.0 | 0.875 |
| 73.5 | 0.875 |
| 74.0 | 0.796 |
| 74.5 | 0.716 |
| 75.0 | 0.743 |
| 75.5 | 0.663 |
| 76.0 | 0.610 |
| 76.5 | 0.583 |
| 77.0 | 0.583 |
| 77.5 | 0.530 |
| 78.0 | 0.451 |
| 78.5 | 0.477 |
| 79.0 | 0.477 |
| 79.5 | 0.477 |
| 80.0 | 0.398 |
| 80.5 | 0.371 |
| 81.0 | 0.345 |
| 81.5 | 0.345 |
| 82.0 | 0.318 |
| 82.5 | 0.292 |

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CANDELA TABULATION - (Cont.)

| | |
|-------|-------|
| 83.0 | 0.265 |
| 83.5 | 0.265 |
| 84.0 | 0.318 |
| 84.5 | 0.239 |
| 85.0 | 0.239 |
| 85.5 | 0.239 |
| 86.0 | 0.212 |
| 86.5 | 0.212 |
| 87.0 | 0.212 |
| 87.5 | 0.186 |
| 88.0 | 0.159 |
| 88.5 | 0.186 |
| 89.0 | 0.186 |
| 89.5 | 0.133 |
| 90.0 | 0.159 |
| 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-L15-830-(L11)-DIM-UNV-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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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 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 534.35 | N.A. | 50.20 |
| 0-30 | 882.79 | N.A. | 82.90 |
| 0-40 | 1032.38 | N.A. | 96.90 |
| 0-60 | 1061.7 | N.A. | 99.70 |
| 0-80 | 1064.79 | N.A. | 100.00 |
| 0-90 | 1065.06 | N.A. | 100.00 |
| 10-90 | 881.91 | N.A. | 82.80 |
| 20-40 | 498.04 | N.A. | 46.80 |
| 20-50 | 520.26 | N.A. | 48.80 |
| 40-70 | 31.61 | N.A. | 3.00 |
| 60-80 | 3.09 | N.A. | 0.30 |
| 70-80 | 0.79 | N.A. | 0.10 |
| 80-90 | 0.27 | 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 | 1065.07 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 183.16 |
| 10-20 | 351.19 |
| 20-30 | 348.45 |
| 30-40 | 149.59 |
| 40-50 | 22.22 |
| 50-60 | 7.10 |
| 60-70 | 2.30 |
| 70-80 | 0.79 |
| 80-90 | 0.27 |
| 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 |

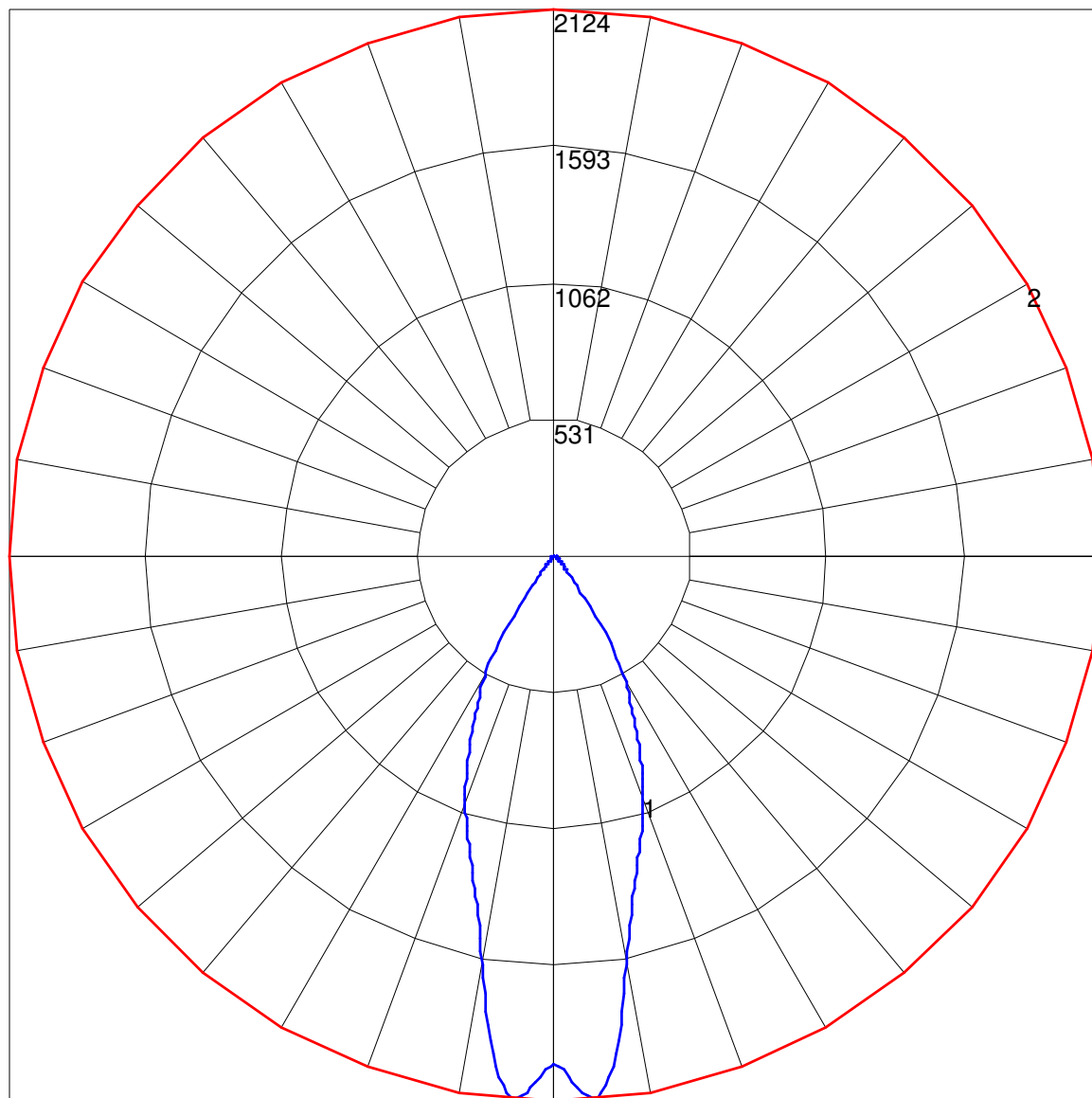
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 112 | 109 | 107 | 112 | 109 | 107 | 106 | 105 | 104 | 102 | 102 | 100 | 99 | 98 | 97 | 96 | 95 |
| 2 | 109 | 105 | 101 | 98 | 107 | 103 | 100 | 97 | 100 | 97 | 95 | 97 | 95 | 93 | 94 | 92 | 91 | 89 |
| 3 | 104 | 99 | 94 | 91 | 102 | 97 | 93 | 90 | 95 | 91 | 88 | 92 | 89 | 87 | 90 | 88 | 86 | 84 |
| 4 | 100 | 93 | 88 | 84 | 98 | 92 | 87 | 84 | 90 | 86 | 83 | 88 | 85 | 82 | 86 | 83 | 81 | 80 |
| 5 | 96 | 88 | 83 | 79 | 94 | 87 | 82 | 79 | 85 | 81 | 78 | 84 | 80 | 77 | 82 | 79 | 77 | 75 |
| 6 | 91 | 84 | 78 | 74 | 90 | 83 | 78 | 74 | 81 | 77 | 74 | 80 | 76 | 73 | 79 | 75 | 73 | 71 |
| 7 | 88 | 79 | 74 | 70 | 86 | 79 | 74 | 70 | 78 | 73 | 70 | 76 | 72 | 69 | 75 | 72 | 69 | 68 |
| 8 | 84 | 76 | 70 | 67 | 83 | 75 | 70 | 66 | 74 | 69 | 66 | 73 | 69 | 66 | 72 | 68 | 66 | 64 |
| 9 | 81 | 72 | 67 | 63 | 80 | 72 | 67 | 63 | 71 | 66 | 63 | 70 | 66 | 63 | 69 | 65 | 63 | 61 |
| 10 | 77 | 69 | 64 | 60 | 77 | 68 | 63 | 60 | 68 | 63 | 60 | 67 | 63 | 60 | 66 | 62 | 60 | 58 |

POLAR GRAPH



Maximum Candela = 2124.165 Located At Horizontal Angle = 0, Vertical Angle = 4
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (4) (Through Max. Cd.)