

IES INDOOR REPORT
PHOTOMETRIC FILENAME : C6S-5030-00-UNVE10-35-LG.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 3670
 [ECN] 3734
 [TESTLAB] Tempo LLC
 [ISSUE DATE] 1/10/2019 2:14:54 PM
 [MANUFAC] Tempo LLC
 [LUMCAT] C6S-5030-00-UNVE10-35-LG
 [LUMINAIRE] Light gray aluminum housing with lightly frosted lens
 [LAMP] Six (6) white LEDs (3500K) with 50 deg x 30 deg round optics
 [ELECTRICALS] 120.05 VAC, 0.08 A, 0.9931 PF, 20% ATHD

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 679 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 69 |
| Total Luminaire Watts | 9.8 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.78 |
| Spacing Criterion (90-270) | 0.50 |
| Spacing Criterion (Diagonal) | 0.62 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 0.13 ft |
| Luminous Width (90-270) | 1.00 ft |
| Luminous Height | 0.07 ft |



LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|------------------|---------------|----------------|----------------|
| 45 | 5533 | 4380 | 4952 |
| 55 | 2335 | 2500 | 3382 |
| 65 | 1329 | 1643 | 2605 |
| 75 | 765 | 1052 | 1928 |
| 85 | 412 | 607 | 1103 |

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CANDELA TABULATION

| | <u>0</u> | <u>5</u> | <u>10</u> | <u>15</u> | <u>20</u> | <u>25</u> | <u>30</u> | <u>35</u> | <u>40</u> | <u>45</u> |
|--------------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0.0 | 1212.46 | 1212.46 | 1212.46 | 1212.46 | 1212.46 | 1212.46 | 1212.46 | 1212.46 | 1212.46 | 1212.46 |
| 2.5 | 1201.90 | 1199.49 | 1197.07 | 1196.46 | 1195.85 | 1195.20 | 1194.55 | 1193.90 | 1193.24 | 1192.99 |
| 5.0 | 1183.38 | 1179.56 | 1175.74 | 1172.17 | 1168.59 | 1163.81 | 1159.03 | 1152.76 | 1146.49 | 1141.26 |
| 7.5 | 1153.81 | 1148.21 | 1142.60 | 1134.23 | 1125.85 | 1114.08 | 1102.29 | 1088.58 | 1074.87 | 1061.64 |
| 10.0 | 1111.75 | 1103.43 | 1095.10 | 1080.77 | 1066.43 | 1047.19 | 1027.93 | 1005.39 | 982.84 | 962.15 |
| 12.5 | 1055.75 | 1044.37 | 1032.98 | 1012.55 | 992.11 | 965.04 | 937.97 | 907.47 | 876.97 | 849.92 |
| 15.0 | 981.47 | 968.17 | 954.88 | 929.34 | 903.79 | 870.47 | 837.15 | 801.68 | 766.21 | 735.34 |
| 17.5 | 893.35 | 877.82 | 862.29 | 833.33 | 804.37 | 767.37 | 730.38 | 692.88 | 655.39 | 623.87 |
| 20.0 | 790.68 | 775.16 | 759.63 | 729.12 | 698.59 | 660.52 | 622.44 | 585.84 | 549.23 | 519.52 |
| 22.5 | 680.93 | 665.83 | 650.74 | 621.50 | 592.26 | 555.40 | 518.53 | 485.47 | 452.41 | 426.38 |
| 25.0 | 568.35 | 554.50 | 540.64 | 514.21 | 487.78 | 455.63 | 423.47 | 395.82 | 368.17 | 345.70 |
| 27.5 | 461.58 | 449.59 | 437.60 | 415.27 | 392.94 | 366.26 | 339.56 | 317.42 | 295.26 | 276.90 |
| 30.0 | 366.65 | 356.89 | 347.13 | 328.71 | 310.28 | 289.25 | 268.21 | 250.93 | 233.65 | 219.13 |
| 32.5 | 285.57 | 277.92 | 270.27 | 255.78 | 241.27 | 225.16 | 209.04 | 196.13 | 183.22 | 172.10 |
| 35.0 | 218.79 | 212.79 | 206.79 | 196.07 | 185.34 | 173.48 | 161.62 | 152.33 | 143.03 | 134.64 |
| 37.5 | 165.99 | 161.52 | 157.04 | 149.18 | 141.32 | 132.82 | 124.32 | 117.74 | 111.15 | 105.17 |
| 40.0 | 125.32 | 122.17 | 119.03 | 113.56 | 108.08 | 102.02 | 95.95 | 91.41 | 86.86 | 82.58 |
| 42.5 | 94.77 | 92.72 | 90.66 | 86.78 | 82.90 | 78.72 | 74.55 | 71.43 | 68.32 | 65.43 |
| 45.0 | 72.04 | 70.71 | 69.38 | 66.92 | 64.45 | 61.64 | 58.84 | 56.66 | 54.47 | 52.72 |
| 47.5 | 55.41 | 54.55 | 53.67 | 52.24 | 50.80 | 49.09 | 47.39 | 46.04 | 44.68 | 43.56 |
| 50.0 | 43.39 | 42.97 | 42.55 | 41.85 | 41.14 | 40.09 | 39.03 | 38.33 | 37.62 | 36.91 |
| 52.5 | 34.82 | 34.66 | 34.50 | 34.13 | 33.75 | 33.33 | 32.89 | 32.57 | 32.24 | 31.79 |
| 55.0 | 28.55 | 28.55 | 28.54 | 28.49 | 28.43 | 28.28 | 28.13 | 28.03 | 27.93 | 27.73 |
| 57.5 | 23.89 | 23.98 | 24.05 | 24.11 | 24.15 | 24.17 | 24.18 | 24.29 | 24.39 | 24.31 |
| 60.0 | 20.18 | 20.33 | 20.48 | 20.55 | 20.61 | 20.77 | 20.93 | 21.11 | 21.29 | 21.28 |
| 62.5 | 17.30 | 17.36 | 17.42 | 17.55 | 17.67 | 17.90 | 18.12 | 18.27 | 18.41 | 18.57 |
| 65.0 | 14.71 | 14.75 | 14.79 | 14.95 | 15.11 | 15.29 | 15.47 | 15.75 | 16.02 | 16.11 |
| 67.5 | 12.54 | 12.56 | 12.58 | 12.73 | 12.88 | 13.07 | 13.25 | 13.51 | 13.77 | 13.88 |
| 70.0 | 10.59 | 10.61 | 10.62 | 10.71 | 10.79 | 11.02 | 11.23 | 11.51 | 11.77 | 11.86 |
| 72.5 | 8.86 | 8.87 | 8.87 | 9.01 | 9.15 | 9.33 | 9.50 | 9.75 | 9.99 | 10.13 |
| 75.0 | 7.32 | 7.41 | 7.48 | 7.56 | 7.62 | 7.81 | 7.99 | 8.31 | 8.62 | 8.65 |
| 77.5 | 5.95 | 6.04 | 6.12 | 6.25 | 6.37 | 6.53 | 6.68 | 6.89 | 7.09 | 7.24 |
| 80.0 | 4.91 | 4.96 | 4.99 | 5.09 | 5.18 | 5.37 | 5.56 | 5.69 | 5.82 | 5.98 |
| 82.5 | 3.95 | 4.00 | 4.04 | 4.10 | 4.15 | 4.25 | 4.34 | 4.55 | 4.76 | 4.86 |
| 85.0 | 3.20 | 3.21 | 3.22 | 3.27 | 3.33 | 3.36 | 3.38 | 3.57 | 3.75 | 3.88 |
| 87.5 | 2.49 | 2.57 | 2.64 | 2.67 | 2.71 | 2.71 | 2.70 | 2.88 | 3.04 | 3.09 |
| 90.0 | 1.77 | 1.90 | 2.02 | 1.99 | 1.96 | 2.00 | 2.04 | 2.14 | 2.23 | 2.24 |
| 100.0 | 1.25 | 1.23 | 1.21 | 1.18 | 1.15 | 1.16 | 1.15 | 1.07 | 0.97 | 0.98 |
| 110.0 | 0.84 | 0.82 | 0.80 | 0.81 | 0.81 | 0.76 | 0.70 | 0.69 | 0.68 | 0.65 |
| 120.0 | 0.50 | 0.51 | 0.52 | 0.53 | 0.54 | 0.52 | 0.50 | 0.52 | 0.53 | 0.49 |
| 130.0 | 0.43 | 0.44 | 0.46 | 0.46 | 0.45 | 0.42 | 0.39 | 0.39 | 0.40 | 0.40 |
| 140.0 | 0.28 | 0.28 | 0.28 | 0.29 | 0.31 | 0.30 | 0.28 | 0.29 | 0.29 | 0.30 |
| 150.0 | 0.27 | 0.27 | 0.28 | 0.28 | 0.28 | 0.27 | 0.26 | 0.27 | 0.28 | 0.27 |
| 160.0 | 0.18 | 0.19 | 0.20 | 0.19 | 0.18 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 |
| 170.0 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| 180.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Vert. Horizontal Angles

| | <u>50</u> | <u>55</u> | <u>60</u> | <u>65</u> | <u>70</u> | <u>75</u> | <u>80</u> | <u>85</u> | <u>90</u> |
|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0.0 | 1212.46 | 1212.46 | 1212.46 | 1212.46 | 1212.46 | 1212.46 | 1212.46 | 1212.46 | 1212.46 |
| 2.5 | 1192.73 | 1192.98 | 1193.22 | 1193.95 | 1194.68 | 1194.38 | 1194.08 | 1194.99 | 1195.91 |
| 5.0 | 1136.02 | 1131.08 | 1126.13 | 1122.79 | 1119.44 | 1116.24 | 1113.03 | 1113.00 | 1112.97 |
| 7.5 | 1048.40 | 1036.30 | 1024.19 | 1015.60 | 1007.01 | 1001.07 | 995.13 | 993.76 | 992.39 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 10.0 | 941.46 | 922.76 | 904.05 | 890.80 | 877.54 | 868.73 | 859.91 | 857.66 | 855.40 |
| 12.5 | 822.88 | 800.28 | 777.69 | 761.40 | 745.10 | 734.75 | 724.38 | 721.38 | 718.37 |
| 15.0 | 704.47 | 679.93 | 655.39 | 638.29 | 621.19 | 610.63 | 600.07 | 596.64 | 593.20 |
| 17.5 | 592.34 | 568.07 | 543.80 | 527.17 | 510.54 | 500.53 | 490.51 | 487.11 | 483.71 |
| 20.0 | 489.81 | 467.83 | 445.85 | 430.26 | 414.67 | 405.48 | 396.30 | 392.95 | 389.60 |
| 22.5 | 400.35 | 381.05 | 361.75 | 347.95 | 334.15 | 326.03 | 317.90 | 315.03 | 312.16 |
| 25.0 | 323.23 | 306.87 | 290.51 | 278.60 | 266.69 | 259.86 | 253.02 | 250.15 | 247.29 |
| 27.5 | 258.53 | 244.92 | 231.30 | 221.31 | 211.31 | 205.69 | 200.07 | 197.69 | 195.29 |
| 30.0 | 204.60 | 193.60 | 182.60 | 174.74 | 166.88 | 162.43 | 157.98 | 156.00 | 154.01 |
| 32.5 | 160.98 | 152.67 | 144.36 | 138.10 | 131.84 | 128.41 | 124.97 | 123.42 | 121.86 |
| 35.0 | 126.26 | 120.08 | 113.89 | 109.16 | 104.42 | 101.84 | 99.25 | 98.07 | 96.89 |
| 37.5 | 99.17 | 94.72 | 90.26 | 86.75 | 83.24 | 81.32 | 79.40 | 78.56 | 77.73 |
| 40.0 | 78.30 | 75.14 | 71.99 | 69.48 | 66.97 | 65.71 | 64.44 | 63.87 | 63.28 |
| 42.5 | 62.54 | 60.41 | 58.27 | 56.55 | 54.82 | 53.93 | 53.04 | 52.57 | 52.09 |
| 45.0 | 50.96 | 49.58 | 48.20 | 46.97 | 45.73 | 45.13 | 44.51 | 44.10 | 43.67 |
| 47.5 | 42.43 | 41.50 | 40.57 | 39.75 | 38.92 | 38.45 | 37.97 | 37.70 | 37.42 |
| 50.0 | 36.19 | 35.54 | 34.90 | 34.24 | 33.57 | 33.19 | 32.81 | 32.60 | 32.37 |
| 52.5 | 31.34 | 30.93 | 30.52 | 29.92 | 29.31 | 29.00 | 28.69 | 28.50 | 28.32 |
| 55.0 | 27.52 | 27.16 | 26.80 | 26.35 | 25.89 | 25.57 | 25.24 | 25.07 | 24.90 |
| 57.5 | 24.23 | 23.97 | 23.71 | 23.35 | 22.99 | 22.66 | 22.31 | 22.17 | 22.03 |
| 60.0 | 21.27 | 21.05 | 20.83 | 20.56 | 20.28 | 19.95 | 19.62 | 19.56 | 19.50 |
| 62.5 | 18.73 | 18.57 | 18.42 | 18.10 | 17.79 | 17.51 | 17.23 | 17.09 | 16.96 |
| 65.0 | 16.19 | 16.12 | 16.04 | 15.73 | 15.43 | 15.18 | 14.92 | 14.86 | 14.80 |
| 67.5 | 13.98 | 13.91 | 13.84 | 13.63 | 13.42 | 13.16 | 12.89 | 12.79 | 12.67 |
| 70.0 | 11.95 | 12.00 | 12.04 | 11.77 | 11.50 | 11.26 | 11.03 | 10.95 | 10.85 |
| 72.5 | 10.27 | 10.25 | 10.23 | 10.00 | 9.78 | 9.56 | 9.33 | 9.10 | 8.87 |
| 75.0 | 8.67 | 8.67 | 8.66 | 8.44 | 8.22 | 7.98 | 7.74 | 7.56 | 7.38 |
| 77.5 | 7.38 | 7.27 | 7.15 | 6.93 | 6.69 | 6.49 | 6.29 | 6.11 | 5.92 |
| 80.0 | 6.14 | 6.06 | 5.98 | 5.69 | 5.41 | 5.14 | 4.87 | 4.66 | 4.45 |
| 82.5 | 4.95 | 4.87 | 4.78 | 4.53 | 4.28 | 3.90 | 3.51 | 3.35 | 3.19 |
| 85.0 | 4.00 | 3.90 | 3.78 | 3.51 | 3.23 | 2.83 | 2.41 | 2.23 | 2.05 |
| 87.5 | 3.12 | 3.06 | 3.00 | 2.72 | 2.44 | 2.00 | 1.55 | 1.36 | 1.17 |
| 90.0 | 2.26 | 2.19 | 2.11 | 1.90 | 1.69 | 1.33 | 0.96 | 0.84 | 0.71 |
| 100.0 | 0.98 | 0.94 | 0.90 | 0.77 | 0.64 | 0.65 | 0.66 | 0.72 | 0.79 |
| 110.0 | 0.61 | 0.57 | 0.53 | 0.52 | 0.51 | 0.55 | 0.58 | 0.65 | 0.71 |
| 120.0 | 0.44 | 0.47 | 0.49 | 0.49 | 0.48 | 0.54 | 0.59 | 0.62 | 0.64 |
| 130.0 | 0.39 | 0.41 | 0.42 | 0.45 | 0.46 | 0.52 | 0.56 | 0.55 | 0.54 |
| 140.0 | 0.31 | 0.30 | 0.30 | 0.32 | 0.33 | 0.34 | 0.35 | 0.35 | 0.36 |
| 150.0 | 0.26 | 0.28 | 0.30 | 0.29 | 0.28 | 0.29 | 0.29 | 0.28 | 0.28 |
| 160.0 | 0.19 | 0.19 | 0.20 | 0.19 | 0.19 | 0.19 | 0.19 | 0.20 | 0.20 |
| 170.0 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| 180.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|-------|--------|
| 0-20 | 312.94 | N.A. | 46.10 |
| 0-30 | 485.19 | N.A. | 71.50 |
| 0-40 | 578.20 | N.A. | 85.10 |
| 0-60 | 647.22 | N.A. | 95.30 |
| 0-80 | 671.26 | N.A. | 98.90 |
| 0-90 | 675.01 | N.A. | 99.40 |
| 10-90 | 571.40 | N.A. | 84.10 |
| 20-40 | 265.27 | N.A. | 39.10 |
| 20-50 | 309.42 | N.A. | 45.60 |
| 40-70 | 84.46 | N.A. | 12.40 |
| 60-80 | 24.04 | N.A. | 3.50 |
| 70-80 | 8.59 | N.A. | 1.30 |
| 80-90 | 3.75 | N.A. | 0.60 |
| 90-110 | 2.39 | N.A. | 0.40 |
| 90-120 | 2.98 | N.A. | 0.40 |
| 90-130 | 3.41 | N.A. | 0.50 |
| 90-150 | 3.89 | N.A. | 0.60 |
| 90-180 | 4.05 | N.A. | 0.60 |
| 110-180 | 1.66 | N.A. | 0.20 |
| 0-180 | 679.06 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 103.61 |
| 10-20 | 209.33 |
| 20-30 | 172.25 |
| 30-40 | 93.01 |
| 40-50 | 44.15 |
| 50-60 | 24.87 |
| 60-70 | 15.45 |
| 70-80 | 8.59 |
| 80-90 | 3.75 |
| 90-100 | 1.53 |
| 100-110 | 0.86 |
| 110-120 | 0.59 |
| 120-130 | 0.43 |
| 130-140 | 0.29 |
| 140-150 | 0.18 |
| 150-160 | 0.11 |
| 160-170 | 0.04 |
| 170-180 | 0.01 |

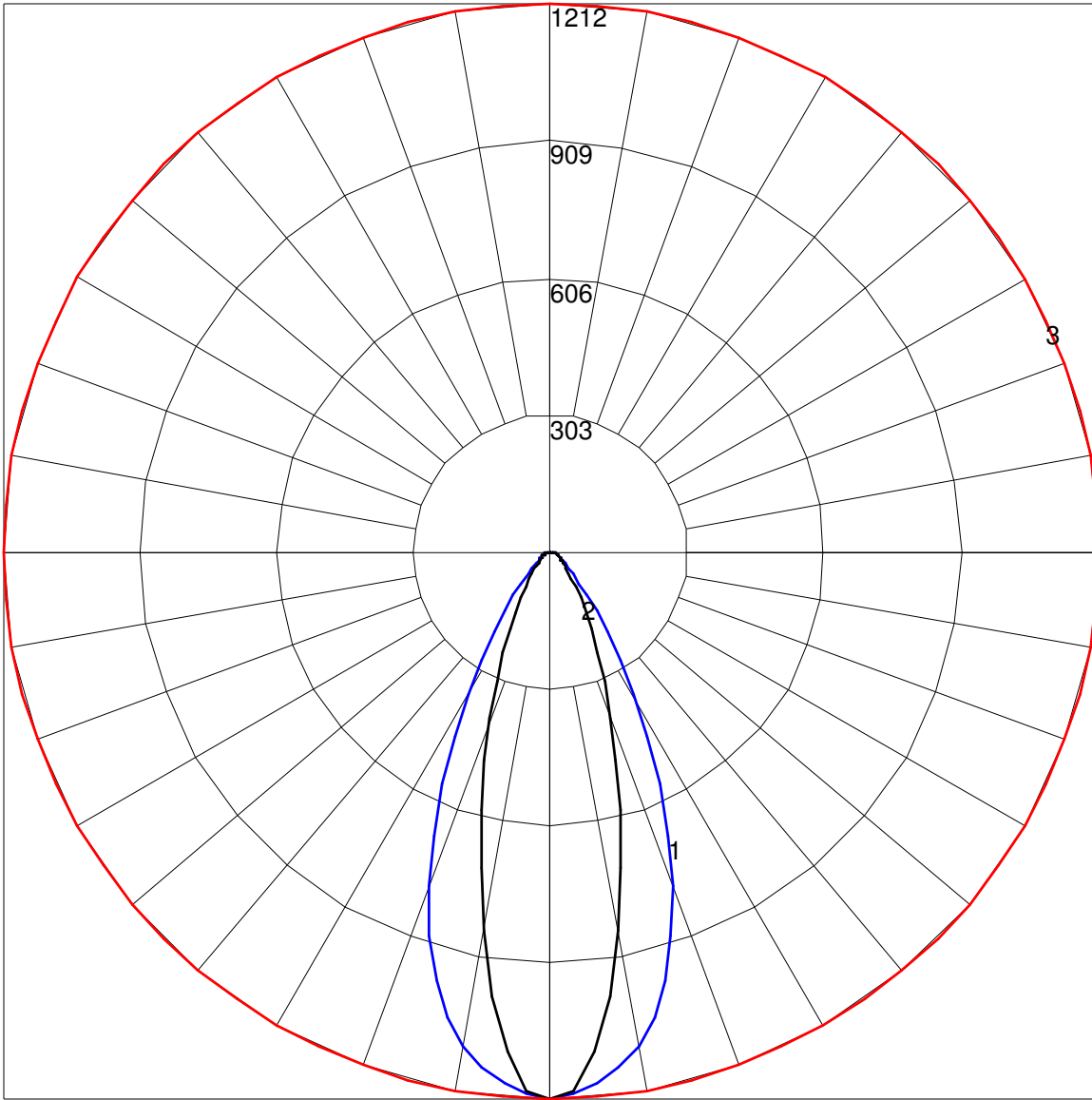
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 99 |
| 1 | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 98 | 97 | 96 | 95 | 94 | 92 | |
| 2 | 107 | 102 | 98 | 94 | 105 | 100 | 96 | 93 | 97 | 94 | 91 | 94 | 91 | 89 | 91 | 89 | 87 | 85 |
| 3 | 102 | 95 | 90 | 86 | 100 | 93 | 89 | 85 | 91 | 87 | 83 | 88 | 85 | 82 | 86 | 83 | 81 | 79 |
| 4 | 97 | 89 | 83 | 79 | 95 | 88 | 82 | 78 | 85 | 81 | 77 | 83 | 79 | 76 | 81 | 78 | 75 | 74 |
| 5 | 92 | 83 | 77 | 73 | 90 | 82 | 77 | 73 | 81 | 76 | 72 | 79 | 75 | 71 | 77 | 74 | 71 | 69 |
| 6 | 87 | 79 | 73 | 68 | 86 | 78 | 72 | 68 | 76 | 71 | 67 | 75 | 70 | 67 | 73 | 69 | 66 | 65 |
| 7 | 83 | 74 | 68 | 64 | 82 | 74 | 68 | 64 | 72 | 67 | 64 | 71 | 66 | 63 | 70 | 66 | 63 | 61 |
| 8 | 80 | 70 | 64 | 60 | 79 | 70 | 64 | 60 | 69 | 64 | 60 | 68 | 63 | 60 | 67 | 62 | 59 | 58 |
| 9 | 76 | 67 | 61 | 57 | 75 | 66 | 61 | 57 | 65 | 60 | 57 | 64 | 60 | 57 | 64 | 59 | 56 | 55 |
| 10 | 73 | 64 | 58 | 54 | 72 | 63 | 58 | 54 | 62 | 57 | 54 | 62 | 57 | 54 | 61 | 57 | 54 | 52 |

POLAR GRAPH



Maximum Candela = 1212.46 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)