



IES INDOOR REPORT
PHOTOMETRIC FILENAME : BAR-22-L30-927-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GENERATED FROM 15729805.02
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 2025-04-25
 [TESTDATE] 3/21/2025
 [MANUFAC] WILLIAMS INDOOR
 [MORE] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] BAR-22-L30-927-DIM-UNV_
 [LUMINAIRE] Recessed 2 x 2 Indirect LED luminaire
 [MORE] with centered LED rail & white painted housing
 [LAMP] 56 White LEDs
 [BALLAST] 0-10v LED DRIVER
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] INDOOR
 [_SEARCH_MOUNTING] RECESSED

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 2445 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 105 |
| Total Luminaire Watts | 23.2 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.28 |
| Spacing Criterion (90-270) | 1.38 |
| Spacing Criterion (Diagonal) | 1.46 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 1.92 ft |
| Luminous Width (90-270) | 1.92 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 2223 | 2418 | 2567 |
| 55 | 2160 | 2463 | 2621 |
| 65 | 2051 | 2453 | 2400 |
| 75 | 1719 | 1795 | 992 |
| 85 | 1220 | 1047 | 585 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BAR-22-L30-927-DIM-UNV_.IES

CANDELA TABULATION

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|------|------------|-------------|-------------|-------------|-------------|
| 0.0 | 794.230 | 794.230 | 794.230 | 794.230 | 794.230 |
| 0.5 | 793.593 | 795.503 | 794.230 | 793.593 | 793.593 |
| 1.0 | 792.957 | 795.503 | 794.230 | 793.593 | 793.593 |
| 1.5 | 792.957 | 794.866 | 794.230 | 792.957 | 793.593 |
| 2.0 | 792.957 | 794.866 | 793.593 | 792.957 | 792.957 |
| 2.5 | 792.957 | 794.866 | 792.957 | 792.321 | 792.321 |
| 3.0 | 792.321 | 794.230 | 792.321 | 791.684 | 792.321 |
| 3.5 | 791.684 | 793.593 | 791.684 | 791.684 | 791.684 |
| 4.0 | 791.048 | 792.957 | 791.684 | 791.048 | 791.048 |
| 4.5 | 790.411 | 792.321 | 790.411 | 790.411 | 790.411 |
| 5.0 | 789.775 | 791.048 | 789.775 | 789.775 | 790.411 |
| 5.5 | 789.138 | 790.411 | 789.138 | 789.138 | 789.775 |
| 6.0 | 787.866 | 789.775 | 788.502 | 788.502 | 789.138 |
| 6.5 | 787.229 | 788.502 | 787.866 | 788.502 | 788.502 |
| 7.0 | 786.593 | 787.866 | 787.229 | 787.866 | 788.502 |
| 7.5 | 785.320 | 786.593 | 785.956 | 787.229 | 787.866 |
| 8.0 | 784.684 | 785.956 | 785.320 | 786.593 | 787.229 |
| 8.5 | 783.411 | 784.684 | 784.684 | 785.956 | 786.593 |
| 9.0 | 782.138 | 783.411 | 783.411 | 785.320 | 786.593 |
| 9.5 | 780.865 | 782.138 | 782.774 | 784.684 | 785.956 |
| 10.0 | 780.229 | 781.502 | 782.138 | 784.047 | 785.320 |
| 10.5 | 778.956 | 780.229 | 780.865 | 783.411 | 785.320 |
| 11.0 | 777.683 | 778.956 | 780.229 | 782.774 | 784.684 |
| 11.5 | 776.410 | 777.683 | 778.956 | 782.138 | 784.047 |
| 12.0 | 775.138 | 776.410 | 778.320 | 781.502 | 783.411 |
| 12.5 | 773.865 | 775.138 | 777.047 | 780.865 | 783.411 |
| 13.0 | 771.956 | 773.865 | 776.410 | 780.229 | 782.774 |
| 13.5 | 770.683 | 772.592 | 775.138 | 779.592 | 782.138 |
| 14.0 | 768.774 | 770.683 | 773.865 | 778.956 | 781.502 |
| 14.5 | 767.501 | 769.410 | 772.592 | 777.683 | 780.865 |
| 15.0 | 765.592 | 767.501 | 771.319 | 777.047 | 780.229 |
| 15.5 | 763.682 | 765.592 | 770.046 | 775.774 | 778.956 |
| 16.0 | 761.773 | 763.682 | 768.774 | 774.501 | 778.320 |
| 16.5 | 759.864 | 761.773 | 766.864 | 773.865 | 777.047 |
| 17.0 | 757.318 | 759.864 | 765.592 | 771.956 | 776.410 |
| 17.5 | 755.409 | 757.955 | 763.682 | 770.683 | 774.501 |
| 18.0 | 752.864 | 755.409 | 761.773 | 769.410 | 773.228 |
| 18.5 | 750.318 | 752.864 | 759.864 | 767.501 | 771.956 |
| 19.0 | 747.772 | 750.954 | 757.955 | 766.228 | 770.683 |
| 19.5 | 745.863 | 748.409 | 756.046 | 764.319 | 768.774 |
| 20.0 | 742.681 | 745.863 | 754.136 | 763.046 | 767.501 |
| 20.5 | 740.136 | 743.318 | 751.591 | 761.137 | 766.228 |
| 21.0 | 737.590 | 740.772 | 749.682 | 759.228 | 764.319 |
| 21.5 | 735.044 | 738.226 | 747.136 | 757.318 | 762.410 |
| 22.0 | 731.862 | 735.681 | 744.590 | 755.409 | 760.500 |
| 22.5 | 728.680 | 732.499 | 742.681 | 753.500 | 758.591 |
| 23.0 | 726.135 | 729.953 | 740.136 | 751.591 | 757.318 |
| 23.5 | 722.953 | 727.407 | 738.226 | 749.682 | 755.409 |
| 24.0 | 720.407 | 724.862 | 735.681 | 747.772 | 753.500 |
| 24.5 | 716.589 | 721.680 | 733.772 | 745.863 | 752.227 |
| 25.0 | 714.043 | 718.498 | 731.226 | 743.954 | 750.318 |
| 25.5 | 710.861 | 715.952 | 729.317 | 742.045 | 749.045 |
| 26.0 | 707.679 | 712.770 | 726.771 | 740.136 | 747.136 |
| 26.5 | 704.497 | 710.225 | 724.225 | 738.226 | 745.863 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BAR-22-L30-927-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

| | | | | | |
|------|---------|---------|---------|---------|---------|
| 27.0 | 700.679 | 707.043 | 721.680 | 736.317 | 743.954 |
| 27.5 | 697.497 | 703.861 | 719.771 | 734.408 | 742.045 |
| 28.0 | 694.315 | 700.679 | 717.225 | 731.862 | 739.499 |
| 28.5 | 690.496 | 697.497 | 714.043 | 729.317 | 737.590 |
| 29.0 | 686.678 | 693.678 | 711.497 | 726.771 | 735.044 |
| 29.5 | 683.496 | 690.496 | 708.315 | 724.225 | 732.499 |
| 30.0 | 679.677 | 687.314 | 705.133 | 721.680 | 729.953 |
| 30.5 | 675.859 | 683.496 | 701.951 | 718.498 | 727.407 |
| 31.0 | 672.041 | 680.314 | 698.769 | 715.952 | 724.225 |
| 31.5 | 667.586 | 676.495 | 695.587 | 712.770 | 721.680 |
| 32.0 | 663.767 | 672.677 | 691.769 | 709.588 | 718.498 |
| 32.5 | 659.949 | 668.859 | 688.587 | 706.406 | 715.316 |
| 33.0 | 655.494 | 664.404 | 684.769 | 703.224 | 712.134 |
| 33.5 | 651.039 | 660.585 | 681.587 | 700.042 | 708.952 |
| 34.0 | 646.584 | 656.130 | 677.768 | 696.224 | 705.770 |
| 34.5 | 642.130 | 652.312 | 673.950 | 693.042 | 702.588 |
| 35.0 | 637.675 | 647.857 | 670.131 | 689.860 | 699.406 |
| 35.5 | 633.284 | 644.039 | 666.313 | 686.678 | 696.224 |
| 36.0 | 628.829 | 639.584 | 662.494 | 682.859 | 693.042 |
| 36.5 | 624.119 | 635.320 | 659.312 | 679.677 | 689.860 |
| 37.0 | 619.537 | 630.993 | 654.858 | 675.859 | 686.678 |
| 37.5 | 614.701 | 626.601 | 651.039 | 672.677 | 682.859 |
| 38.0 | 609.737 | 622.210 | 647.221 | 668.859 | 679.041 |
| 38.5 | 604.836 | 617.565 | 642.766 | 665.040 | 675.859 |
| 39.0 | 599.873 | 613.046 | 638.948 | 661.222 | 672.041 |
| 39.5 | 594.909 | 608.464 | 634.684 | 657.403 | 667.586 |
| 40.0 | 589.945 | 603.627 | 630.293 | 652.948 | 663.767 |
| 40.5 | 584.853 | 598.918 | 625.838 | 648.494 | 659.949 |
| 41.0 | 579.444 | 594.081 | 621.637 | 644.675 | 655.494 |
| 41.5 | 574.416 | 589.181 | 617.119 | 640.220 | 651.676 |
| 42.0 | 569.134 | 584.217 | 612.537 | 635.702 | 647.221 |
| 42.5 | 563.979 | 579.253 | 607.828 | 631.311 | 642.766 |
| 43.0 | 558.634 | 574.353 | 603.245 | 626.920 | 638.311 |
| 43.5 | 553.288 | 569.134 | 598.663 | 622.465 | 634.175 |
| 44.0 | 548.069 | 563.916 | 593.890 | 617.883 | 629.593 |
| 44.5 | 542.724 | 558.825 | 589.117 | 613.364 | 625.010 |
| 45.0 | 537.123 | 553.670 | 584.281 | 608.719 | 620.301 |
| 45.5 | 531.778 | 548.388 | 579.444 | 604.009 | 615.528 |
| 46.0 | 526.241 | 543.233 | 574.480 | 599.300 | 610.755 |
| 46.5 | 520.768 | 537.887 | 569.516 | 594.463 | 606.173 |
| 47.0 | 515.040 | 532.541 | 564.489 | 589.563 | 601.400 |
| 47.5 | 509.122 | 527.195 | 559.525 | 584.472 | 596.309 |
| 48.0 | 503.394 | 521.850 | 554.370 | 579.380 | 591.408 |
| 48.5 | 499.448 | 516.377 | 549.215 | 574.353 | 586.063 |
| 49.0 | 497.412 | 511.158 | 543.869 | 569.198 | 581.162 |
| 49.5 | 491.557 | 506.767 | 538.651 | 564.170 | 575.880 |
| 50.0 | 485.575 | 502.121 | 533.305 | 558.825 | 570.534 |
| 50.5 | 479.656 | 497.985 | 527.959 | 553.352 | 565.252 |
| 51.0 | 473.483 | 492.702 | 522.613 | 547.878 | 559.843 |
| 51.5 | 467.437 | 487.102 | 517.204 | 542.342 | 554.052 |
| 52.0 | 461.264 | 482.584 | 512.367 | 536.805 | 548.388 |
| 52.5 | 455.155 | 476.983 | 507.912 | 531.205 | 542.596 |
| 53.0 | 448.854 | 471.192 | 502.567 | 525.223 | 536.805 |
| 53.5 | 442.427 | 465.274 | 498.239 | 519.368 | 530.568 |
| 54.0 | 435.999 | 459.355 | 493.466 | 513.322 | 524.268 |
| 54.5 | 429.571 | 453.436 | 487.611 | 508.612 | 518.095 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BAR-22-L30-927-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

| | | | | | |
|------|---------|---------|---------|---------|---------|
| 55.0 | 423.335 | 447.454 | 482.775 | 503.649 | 513.640 |
| 55.5 | 416.971 | 441.536 | 477.111 | 497.412 | 508.103 |
| 56.0 | 410.607 | 435.426 | 471.065 | 491.302 | 501.230 |
| 56.5 | 404.179 | 429.317 | 464.828 | 486.848 | 494.230 |
| 57.0 | 397.688 | 423.016 | 458.528 | 480.356 | 487.102 |
| 57.5 | 391.196 | 416.843 | 452.227 | 473.547 | 482.584 |
| 58.0 | 384.832 | 410.734 | 445.991 | 466.737 | 475.138 |
| 58.5 | 378.532 | 404.688 | 439.690 | 459.864 | 467.692 |
| 59.0 | 372.041 | 398.642 | 433.326 | 452.673 | 459.991 |
| 59.5 | 365.613 | 392.342 | 426.835 | 445.418 | 452.227 |
| 60.0 | 359.058 | 386.232 | 420.407 | 437.972 | 444.081 |
| 60.5 | 352.630 | 380.059 | 413.980 | 430.717 | 435.744 |
| 61.0 | 346.394 | 374.013 | 407.552 | 423.207 | 427.344 |
| 61.5 | 340.030 | 368.159 | 401.315 | 415.698 | 418.816 |
| 62.0 | 333.856 | 362.367 | 394.887 | 408.061 | 410.161 |
| 62.5 | 327.556 | 356.385 | 388.396 | 399.979 | 400.933 |
| 63.0 | 321.383 | 350.403 | 381.905 | 391.769 | 391.260 |
| 63.5 | 315.146 | 344.548 | 375.223 | 383.178 | 380.823 |
| 64.0 | 308.846 | 338.630 | 368.477 | 374.141 | 369.940 |
| 64.5 | 302.673 | 332.520 | 361.476 | 364.658 | 358.613 |
| 65.0 | 296.181 | 326.411 | 354.285 | 354.603 | 346.585 |
| 65.5 | 289.499 | 320.047 | 346.903 | 344.039 | 333.856 |
| 66.0 | 282.753 | 313.428 | 338.948 | 332.775 | 320.301 |
| 66.5 | 275.944 | 306.682 | 330.611 | 320.874 | 305.791 |
| 67.0 | 268.689 | 299.682 | 322.147 | 308.528 | 291.472 |
| 67.5 | 261.498 | 292.554 | 313.428 | 295.991 | 276.453 |
| 68.0 | 254.179 | 285.299 | 304.518 | 282.753 | 261.370 |
| 68.5 | 246.924 | 277.917 | 295.227 | 269.325 | 245.906 |
| 69.0 | 239.096 | 270.407 | 285.617 | 255.515 | 230.696 |
| 69.5 | 231.396 | 262.898 | 275.944 | 241.515 | 215.295 |
| 70.0 | 223.886 | 255.324 | 266.271 | 227.514 | 200.658 |
| 70.5 | 216.313 | 247.688 | 256.088 | 214.149 | 186.275 |
| 71.0 | 208.994 | 240.178 | 245.842 | 200.530 | 172.401 |
| 71.5 | 201.739 | 232.669 | 235.278 | 187.420 | 159.101 |
| 72.0 | 194.484 | 225.159 | 224.777 | 174.820 | 146.627 |
| 72.5 | 187.166 | 217.522 | 213.895 | 162.728 | 134.726 |
| 73.0 | 180.038 | 209.949 | 202.567 | 151.082 | 123.971 |
| 73.5 | 172.974 | 202.376 | 191.366 | 140.199 | 113.725 |
| 74.0 | 166.037 | 194.866 | 180.420 | 129.762 | 104.306 |
| 74.5 | 158.973 | 187.039 | 169.537 | 120.153 | 95.651 |
| 75.0 | 152.036 | 179.338 | 158.782 | 111.370 | 87.696 |
| 75.5 | 145.354 | 171.447 | 148.345 | 103.097 | 80.568 |
| 76.0 | 138.672 | 163.683 | 138.417 | 95.206 | 73.695 |
| 76.5 | 132.053 | 155.918 | 128.999 | 88.142 | 67.777 |
| 77.0 | 125.626 | 148.218 | 120.089 | 81.714 | 62.431 |
| 77.5 | 119.198 | 140.645 | 111.689 | 75.859 | 57.531 |
| 78.0 | 112.834 | 133.008 | 103.988 | 70.450 | 53.140 |
| 78.5 | 106.852 | 125.753 | 96.797 | 65.422 | 49.067 |
| 79.0 | 101.124 | 118.689 | 90.051 | 60.713 | 45.375 |
| 79.5 | 95.588 | 111.879 | 83.814 | 56.512 | 42.066 |
| 80.0 | 90.242 | 105.515 | 77.959 | 52.567 | 39.075 |
| 80.5 | 84.705 | 99.470 | 72.486 | 48.812 | 36.402 |
| 81.0 | 79.168 | 93.487 | 67.331 | 45.375 | 33.857 |
| 81.5 | 73.886 | 87.505 | 62.367 | 42.066 | 31.629 |
| 82.0 | 68.477 | 81.714 | 57.594 | 39.011 | 29.274 |
| 82.5 | 63.067 | 75.795 | 53.012 | 35.893 | 26.920 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BAR-22-L30-927-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

| | | | | | |
|-------|--------|--------|--------|--------|--------|
| 83.0 | 57.531 | 69.750 | 48.557 | 32.711 | 24.756 |
| 83.5 | 52.249 | 63.831 | 44.166 | 29.720 | 22.783 |
| 84.0 | 46.903 | 57.913 | 39.902 | 26.856 | 20.874 |
| 84.5 | 41.621 | 51.739 | 35.575 | 23.992 | 19.092 |
| 85.0 | 36.339 | 45.566 | 31.184 | 21.319 | 17.437 |
| 85.5 | 31.375 | 39.330 | 26.920 | 18.837 | 16.165 |
| 86.0 | 26.474 | 33.157 | 22.783 | 16.674 | 15.083 |
| 86.5 | 21.765 | 27.047 | 18.710 | 14.637 | 13.810 |
| 87.0 | 17.501 | 21.256 | 14.892 | 12.473 | 12.092 |
| 87.5 | 13.619 | 15.910 | 11.583 | 9.992 | 9.610 |
| 88.0 | 10.246 | 11.264 | 8.464 | 8.019 | 8.337 |
| 88.5 | 7.128 | 7.573 | 6.173 | 6.428 | 6.873 |
| 89.0 | 4.391 | 4.900 | 4.328 | 4.264 | 4.391 |
| 89.5 | 3.627 | 3.755 | 3.691 | 4.264 | 4.200 |
| 90.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 90.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 91.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 91.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 92.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 92.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 93.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 93.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 94.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 94.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 95.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 95.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 96.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 96.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 97.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 97.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 98.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 98.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 99.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 99.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 100.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 100.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 101.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 101.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 102.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 102.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 103.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 103.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 104.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 104.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 105.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 105.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 106.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 106.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 107.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 107.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 108.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 108.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 109.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 109.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BAR-22-L30-927-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BAR-22-L30-927-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BAR-22-L30-927-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BAR-22-L30-927-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 293.27 | N.A. | 12.00 |
| 0-30 | 630.93 | N.A. | 25.80 |
| 0-40 | 1049.86 | N.A. | 42.90 |
| 0-60 | 1922.5 | N.A. | 78.60 |
| 0-80 | 2408.57 | N.A. | 98.50 |
| 0-90 | 2444.73 | N.A. | 100.00 |
| 10-90 | 2369.55 | N.A. | 96.90 |
| 20-40 | 756.59 | N.A. | 30.90 |
| 20-50 | 1205.18 | N.A. | 49.30 |
| 40-70 | 1203.19 | N.A. | 49.20 |
| 60-80 | 486.07 | N.A. | 19.90 |
| 70-80 | 155.52 | N.A. | 6.40 |
| 80-90 | 36.16 | N.A. | 1.50 |
| 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 | 2444.73 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 75.19 |
| 10-20 | 218.08 |
| 20-30 | 337.66 |
| 30-40 | 418.93 |
| 40-50 | 448.59 |
| 50-60 | 424.06 |
| 60-70 | 330.55 |
| 70-80 | 155.52 |
| 80-90 | 36.16 |
| 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 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BAR-22-L30-927-DIM-UNV_.IES

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 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 94 | 97 | 94 | 91 | 94 | 91 | 89 | 90 | 88 | 86 | 84 |
| 2 | 99 | 90 | 83 | 78 | 96 | 88 | 82 | 77 | 85 | 80 | 75 | 82 | 77 | 73 | 79 | 75 | 72 | 69 |
| 3 | 90 | 79 | 71 | 64 | 87 | 77 | 70 | 64 | 74 | 68 | 62 | 72 | 66 | 61 | 69 | 64 | 60 | 58 |
| 4 | 82 | 70 | 61 | 54 | 80 | 68 | 60 | 54 | 66 | 59 | 53 | 64 | 57 | 52 | 61 | 56 | 51 | 49 |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 59 | 51 | 45 | 57 | 50 | 45 | 55 | 49 | 44 | 42 |
| 6 | 69 | 56 | 47 | 40 | 67 | 55 | 46 | 40 | 53 | 45 | 40 | 51 | 44 | 39 | 50 | 44 | 39 | 37 |
| 7 | 64 | 50 | 42 | 35 | 62 | 50 | 41 | 35 | 48 | 40 | 35 | 47 | 40 | 35 | 45 | 39 | 34 | 32 |
| 8 | 60 | 46 | 37 | 31 | 58 | 45 | 37 | 31 | 44 | 36 | 31 | 43 | 36 | 31 | 41 | 35 | 31 | 29 |
| 9 | 56 | 42 | 34 | 28 | 54 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 |
| 10 | 52 | 39 | 31 | 25 | 51 | 38 | 31 | 25 | 37 | 30 | 25 | 36 | 30 | 25 | 35 | 29 | 25 | 23 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BAR-22-L30-927-DIM-UNV_.IES

UGR TABLE - CORRECTED

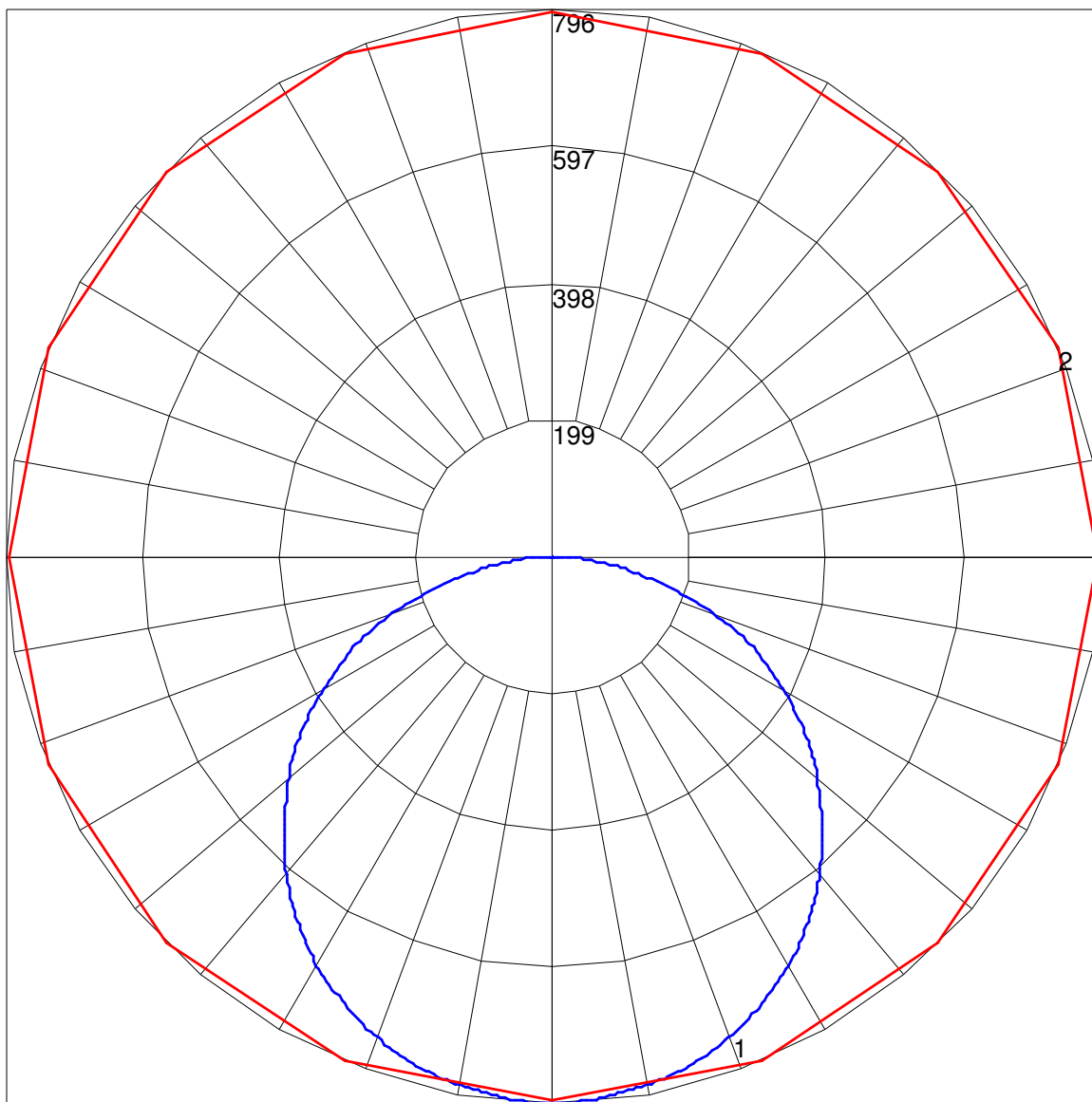
Reflectances

| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| Ceiling Cavity | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| Walls | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| Floor Cavity | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

| Room Size | | UGR Viewed Crosswise | | | | | UGR Viewed Endwise | | | | |
|-----------|------|----------------------|------|------|------|------|--------------------|------|------|------|------|
| X=2H | Y=2H | 15.0 | 16.7 | 15.4 | 17.0 | 17.3 | 16.0 | 17.7 | 16.4 | 18.0 | 18.3 |
| | 3H | 16.9 | 18.4 | 17.3 | 18.7 | 19.1 | 17.4 | 19.0 | 17.8 | 19.3 | 19.6 |
| | 4H | 17.6 | 19.0 | 18.0 | 19.3 | 19.7 | 17.7 | 19.1 | 18.1 | 19.4 | 19.8 |
| | 6H | 18.0 | 19.3 | 18.4 | 19.7 | 20.1 | 17.7 | 19.0 | 18.1 | 19.4 | 19.8 |
| | 8H | 18.2 | 19.4 | 18.6 | 19.8 | 20.2 | 17.7 | 19.0 | 18.2 | 19.4 | 19.8 |
| | 12H | 18.2 | 19.4 | 18.7 | 19.8 | 20.2 | 17.7 | 18.9 | 18.1 | 19.3 | 19.7 |
| 4H | 2H | 15.9 | 17.3 | 16.3 | 17.7 | 18.0 | 16.7 | 18.1 | 17.1 | 18.4 | 18.8 |
| | 3H | 18.0 | 19.2 | 18.4 | 19.6 | 20.0 | 18.3 | 19.5 | 18.7 | 19.9 | 20.3 |
| | 4H | 18.8 | 19.8 | 19.2 | 20.2 | 20.7 | 18.5 | 19.6 | 19.0 | 20.0 | 20.5 |
| | 6H | 19.3 | 20.3 | 19.8 | 20.7 | 21.2 | 18.7 | 19.6 | 19.1 | 20.0 | 20.5 |
| | 8H | 19.5 | 20.4 | 20.0 | 20.8 | 21.3 | 18.7 | 19.6 | 19.1 | 20.0 | 20.5 |
| | 12H | 19.6 | 20.4 | 20.1 | 20.9 | 21.4 | 18.7 | 19.5 | 19.2 | 20.0 | 20.4 |
| 8H | 4H | 19.0 | 19.9 | 19.5 | 20.3 | 20.8 | 18.8 | 19.7 | 19.3 | 20.1 | 20.6 |
| | 6H | 19.7 | 20.4 | 20.2 | 20.9 | 21.4 | 19.0 | 19.7 | 19.5 | 20.2 | 20.7 |
| | 8H | 20.0 | 20.6 | 20.5 | 21.1 | 21.6 | 19.0 | 19.7 | 19.6 | 20.2 | 20.7 |
| | 12H | 20.2 | 20.8 | 20.7 | 21.2 | 21.8 | 19.1 | 19.7 | 19.6 | 20.1 | 20.7 |
| 12H | 4H | 19.0 | 19.8 | 19.5 | 20.3 | 20.7 | 18.8 | 19.6 | 19.3 | 20.1 | 20.6 |
| | 6H | 19.7 | 20.4 | 20.3 | 20.8 | 21.4 | 19.1 | 19.7 | 19.6 | 20.2 | 20.7 |
| | 8H | 20.0 | 20.6 | 20.5 | 21.1 | 21.7 | 19.1 | 19.7 | 19.6 | 20.2 | 20.7 |

Maximum UGR = 21.8

POLAR GRAPH



Maximum Candela = 795.503 Located At Horizontal Angle = 22.5, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)