



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BAR-24-L75-830-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GENERATED FROM 15729805.03
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 2025-04-25
 [TESTDATE] 3/18/2025
 [MANUFAC] WILLIAMS INDOOR
 [MORE] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] BAR-24-L75-830-DIM-UNV_
 [LUMINAIRE] Recessed 2 x 4 Indirect LED luminaire
 [MORE] with centered LED rail & white painted housing
 [LAMP] 112 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 | 7509 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 123 |
| Total Luminaire Watts | 61.2 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.30 |
| Spacing Criterion (90-270) | 1.38 |
| Spacing Criterion (Diagonal) | 1.48 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 3.92 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 | 3426 | 3664 | 3814 |
| 55 | 3369 | 3730 | 3857 |
| 65 | 3285 | 3726 | 3429 |
| 75 | 2950 | 2538 | 1425 |
| 85 | 1990 | 1040 | 864 |

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CANDELA TABULATION

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|------|------------|-------------|-------------|-------------|-------------|
| 0.0 | 2400.012 | 2400.012 | 2400.012 | 2400.012 | 2400.012 |
| 0.5 | 2398.068 | 2400.012 | 2398.068 | 2401.956 | 2403.900 |
| 1.0 | 2397.095 | 2399.040 | 2397.095 | 2400.984 | 2403.900 |
| 1.5 | 2397.095 | 2399.040 | 2396.123 | 2400.984 | 2402.928 |
| 2.0 | 2396.123 | 2398.068 | 2396.123 | 2400.012 | 2401.956 |
| 2.5 | 2396.123 | 2397.095 | 2395.151 | 2399.040 | 2400.984 |
| 3.0 | 2395.151 | 2396.123 | 2393.207 | 2397.095 | 2400.012 |
| 3.5 | 2394.179 | 2395.151 | 2392.235 | 2396.123 | 2398.068 |
| 4.0 | 2394.179 | 2394.179 | 2390.291 | 2395.151 | 2397.095 |
| 4.5 | 2392.235 | 2392.235 | 2389.319 | 2394.179 | 2396.123 |
| 5.0 | 2391.263 | 2391.263 | 2387.375 | 2392.235 | 2394.179 |
| 5.5 | 2390.291 | 2389.319 | 2386.403 | 2391.263 | 2393.207 |
| 6.0 | 2388.347 | 2387.375 | 2384.459 | 2390.291 | 2392.235 |
| 6.5 | 2386.403 | 2384.459 | 2382.515 | 2388.347 | 2391.263 |
| 7.0 | 2384.459 | 2382.515 | 2381.543 | 2387.375 | 2390.291 |
| 7.5 | 2382.515 | 2380.570 | 2378.626 | 2385.431 | 2388.347 |
| 8.0 | 2379.598 | 2377.654 | 2376.682 | 2384.459 | 2387.375 |
| 8.5 | 2377.654 | 2374.738 | 2374.738 | 2382.515 | 2386.403 |
| 9.0 | 2374.738 | 2372.794 | 2372.794 | 2381.543 | 2385.431 |
| 9.5 | 2371.822 | 2369.878 | 2370.850 | 2379.598 | 2383.487 |
| 10.0 | 2367.934 | 2366.962 | 2367.934 | 2377.654 | 2382.515 |
| 10.5 | 2365.990 | 2363.073 | 2365.990 | 2376.682 | 2381.543 |
| 11.0 | 2362.101 | 2360.157 | 2363.073 | 2374.738 | 2379.598 |
| 11.5 | 2358.213 | 2356.269 | 2360.157 | 2372.794 | 2377.654 |
| 12.0 | 2354.325 | 2352.381 | 2357.241 | 2370.850 | 2376.682 |
| 12.5 | 2350.437 | 2348.493 | 2354.325 | 2368.906 | 2373.766 |
| 13.0 | 2345.576 | 2344.604 | 2351.409 | 2366.962 | 2372.794 |
| 13.5 | 2341.688 | 2340.716 | 2348.493 | 2364.045 | 2370.850 |
| 14.0 | 2336.828 | 2335.856 | 2344.604 | 2361.129 | 2368.906 |
| 14.5 | 2330.996 | 2331.968 | 2340.716 | 2358.213 | 2366.962 |
| 15.0 | 2327.107 | 2327.107 | 2336.828 | 2356.269 | 2364.045 |
| 15.5 | 2321.275 | 2321.275 | 2332.940 | 2352.381 | 2362.101 |
| 16.0 | 2316.415 | 2316.415 | 2329.051 | 2349.465 | 2358.213 |
| 16.5 | 2311.554 | 2311.554 | 2325.163 | 2345.576 | 2355.297 |
| 17.0 | 2305.722 | 2305.722 | 2320.303 | 2341.688 | 2352.381 |
| 17.5 | 2299.890 | 2300.862 | 2315.443 | 2337.800 | 2348.493 |
| 18.0 | 2294.057 | 2295.029 | 2311.554 | 2333.912 | 2344.604 |
| 18.5 | 2288.225 | 2290.169 | 2306.694 | 2329.051 | 2339.744 |
| 19.0 | 2281.421 | 2284.337 | 2301.834 | 2325.163 | 2334.884 |
| 19.5 | 2275.588 | 2277.532 | 2296.973 | 2320.303 | 2330.023 |
| 20.0 | 2268.784 | 2271.700 | 2292.113 | 2315.443 | 2325.163 |
| 20.5 | 2261.979 | 2265.868 | 2286.281 | 2310.582 | 2320.303 |
| 21.0 | 2255.175 | 2259.063 | 2280.448 | 2305.722 | 2314.471 |
| 21.5 | 2247.399 | 2252.259 | 2274.616 | 2299.890 | 2309.610 |
| 22.0 | 2240.594 | 2245.454 | 2268.784 | 2295.029 | 2304.750 |
| 22.5 | 2232.818 | 2238.650 | 2262.951 | 2289.197 | 2299.890 |
| 23.0 | 2226.013 | 2231.846 | 2257.119 | 2284.337 | 2295.029 |
| 23.5 | 2217.265 | 2224.069 | 2250.315 | 2278.504 | 2289.197 |
| 24.0 | 2208.516 | 2216.293 | 2243.510 | 2272.672 | 2284.337 |
| 24.5 | 2200.740 | 2208.516 | 2236.706 | 2267.812 | 2279.476 |
| 25.0 | 2191.991 | 2200.740 | 2230.874 | 2261.979 | 2273.644 |
| 25.5 | 2183.243 | 2191.991 | 2223.097 | 2256.147 | 2268.784 |
| 26.0 | 2174.494 | 2183.243 | 2216.293 | 2250.315 | 2263.923 |
| 26.5 | 2164.774 | 2174.494 | 2209.488 | 2244.482 | 2258.091 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|------|----------|----------|----------|----------|----------|
| 27.0 | 2155.053 | 2165.746 | 2201.712 | 2238.650 | 2252.259 |
| 27.5 | 2145.332 | 2156.025 | 2194.907 | 2231.846 | 2246.426 |
| 28.0 | 2134.640 | 2147.277 | 2187.131 | 2225.041 | 2240.594 |
| 28.5 | 2124.919 | 2137.556 | 2179.354 | 2218.237 | 2233.790 |
| 29.0 | 2114.227 | 2127.835 | 2170.606 | 2210.460 | 2226.985 |
| 29.5 | 2103.534 | 2118.115 | 2162.829 | 2202.684 | 2219.209 |
| 30.0 | 2092.841 | 2108.394 | 2154.081 | 2194.907 | 2211.432 |
| 30.5 | 2081.177 | 2097.702 | 2145.332 | 2187.131 | 2203.656 |
| 31.0 | 2070.484 | 2087.981 | 2135.612 | 2178.382 | 2194.907 |
| 31.5 | 2059.791 | 2077.288 | 2126.863 | 2169.634 | 2186.159 |
| 32.0 | 2048.127 | 2067.568 | 2117.143 | 2160.885 | 2177.410 |
| 32.5 | 2036.462 | 2056.875 | 2107.422 | 2151.165 | 2168.662 |
| 33.0 | 2025.769 | 2045.210 | 2097.702 | 2142.416 | 2158.941 |
| 33.5 | 2013.132 | 2034.518 | 2087.981 | 2132.696 | 2150.193 |
| 34.0 | 2001.468 | 2022.853 | 2077.288 | 2122.975 | 2140.472 |
| 34.5 | 1988.831 | 2012.160 | 2066.596 | 2113.254 | 2130.752 |
| 35.0 | 1976.194 | 2000.496 | 2056.875 | 2103.534 | 2121.031 |
| 35.5 | 1964.530 | 1988.831 | 2046.182 | 2093.813 | 2111.310 |
| 36.0 | 1950.921 | 1977.166 | 2035.490 | 2083.121 | 2101.590 |
| 36.5 | 1937.312 | 1965.502 | 2023.825 | 2073.400 | 2090.897 |
| 37.0 | 1923.703 | 1952.865 | 2013.132 | 2062.707 | 2080.204 |
| 37.5 | 1911.066 | 1941.200 | 2001.468 | 2052.015 | 2069.512 |
| 38.0 | 1897.458 | 1927.591 | 1990.775 | 2040.350 | 2058.819 |
| 38.5 | 1883.849 | 1914.955 | 1979.110 | 2029.657 | 2048.127 |
| 39.0 | 1870.240 | 1902.318 | 1966.474 | 2017.993 | 2036.462 |
| 39.5 | 1856.631 | 1889.681 | 1954.809 | 2006.328 | 2024.797 |
| 40.0 | 1842.050 | 1877.044 | 1943.144 | 1994.663 | 2013.132 |
| 40.5 | 1828.441 | 1862.463 | 1930.508 | 1982.027 | 2001.468 |
| 41.0 | 1813.861 | 1848.855 | 1917.871 | 1969.390 | 1988.831 |
| 41.5 | 1799.280 | 1835.246 | 1904.262 | 1957.725 | 1976.194 |
| 42.0 | 1784.699 | 1821.637 | 1891.625 | 1944.116 | 1963.558 |
| 42.5 | 1770.118 | 1807.056 | 1878.016 | 1931.480 | 1949.949 |
| 43.0 | 1754.565 | 1792.475 | 1864.408 | 1918.843 | 1937.312 |
| 43.5 | 1739.012 | 1777.894 | 1850.799 | 1905.234 | 1923.703 |
| 44.0 | 1723.459 | 1763.314 | 1837.190 | 1891.625 | 1910.094 |
| 44.5 | 1707.906 | 1748.733 | 1822.609 | 1877.044 | 1896.486 |
| 45.0 | 1691.381 | 1733.180 | 1809.000 | 1863.436 | 1882.877 |
| 45.5 | 1675.828 | 1718.599 | 1795.391 | 1848.855 | 1868.296 |
| 46.0 | 1659.303 | 1703.046 | 1780.811 | 1834.274 | 1852.743 |
| 46.5 | 1642.778 | 1687.493 | 1766.230 | 1819.693 | 1838.162 |
| 47.0 | 1625.281 | 1671.940 | 1750.677 | 1804.140 | 1822.609 |
| 47.5 | 1608.756 | 1656.387 | 1736.096 | 1789.559 | 1808.028 |
| 48.0 | 1592.231 | 1640.834 | 1720.543 | 1774.006 | 1791.503 |
| 48.5 | 1574.734 | 1626.253 | 1705.962 | 1759.425 | 1775.950 |
| 49.0 | 1558.209 | 1609.728 | 1690.409 | 1743.872 | 1759.425 |
| 49.5 | 1541.684 | 1594.175 | 1674.856 | 1727.347 | 1742.900 |
| 50.0 | 1525.159 | 1578.622 | 1659.303 | 1710.822 | 1727.347 |
| 50.5 | 1507.662 | 1563.070 | 1643.750 | 1694.297 | 1710.822 |
| 51.0 | 1491.137 | 1546.545 | 1627.225 | 1677.772 | 1693.325 |
| 51.5 | 1473.640 | 1530.020 | 1611.672 | 1661.247 | 1675.828 |
| 52.0 | 1456.143 | 1513.495 | 1595.147 | 1643.750 | 1658.331 |
| 52.5 | 1438.646 | 1496.970 | 1578.622 | 1626.253 | 1640.834 |
| 53.0 | 1421.149 | 1480.445 | 1562.097 | 1608.756 | 1622.365 |
| 53.5 | 1403.652 | 1463.920 | 1545.573 | 1591.259 | 1602.924 |
| 54.0 | 1386.155 | 1447.395 | 1528.075 | 1572.790 | 1583.483 |
| 54.5 | 1367.686 | 1430.870 | 1511.550 | 1554.321 | 1564.042 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|------|----------|----------|----------|----------|----------|
| 55.0 | 1349.217 | 1414.345 | 1494.053 | 1534.880 | 1544.600 |
| 55.5 | 1331.720 | 1396.848 | 1475.584 | 1515.439 | 1524.187 |
| 56.0 | 1313.251 | 1379.351 | 1458.087 | 1495.025 | 1503.774 |
| 56.5 | 1294.781 | 1361.854 | 1439.618 | 1475.584 | 1482.389 |
| 57.0 | 1276.312 | 1344.356 | 1421.149 | 1454.199 | 1460.031 |
| 57.5 | 1256.871 | 1326.859 | 1402.680 | 1433.786 | 1436.702 |
| 58.0 | 1238.402 | 1308.390 | 1384.211 | 1412.401 | 1414.345 |
| 58.5 | 1219.933 | 1290.893 | 1364.770 | 1391.015 | 1390.043 |
| 59.0 | 1201.464 | 1273.396 | 1345.329 | 1368.658 | 1366.714 |
| 59.5 | 1182.995 | 1255.899 | 1326.859 | 1345.329 | 1342.412 |
| 60.0 | 1163.554 | 1238.402 | 1307.418 | 1322.971 | 1316.167 |
| 60.5 | 1145.085 | 1220.905 | 1287.977 | 1299.642 | 1290.893 |
| 61.0 | 1125.643 | 1202.436 | 1269.508 | 1276.312 | 1263.676 |
| 61.5 | 1107.174 | 1184.939 | 1250.067 | 1252.011 | 1236.458 |
| 62.0 | 1087.733 | 1166.470 | 1229.654 | 1227.709 | 1207.296 |
| 62.5 | 1068.292 | 1148.973 | 1208.268 | 1201.464 | 1178.135 |
| 63.0 | 1048.851 | 1130.504 | 1187.855 | 1175.218 | 1148.001 |
| 63.5 | 1029.410 | 1111.062 | 1166.470 | 1148.001 | 1115.923 |
| 64.0 | 1009.968 | 1092.593 | 1145.085 | 1118.839 | 1082.873 |
| 64.5 | 989.555 | 1074.124 | 1121.755 | 1089.677 | 1048.851 |
| 65.0 | 969.239 | 1054.683 | 1099.398 | 1057.599 | 1011.913 |
| 65.5 | 948.729 | 1035.242 | 1076.068 | 1023.577 | 973.030 |
| 66.0 | 927.538 | 1014.829 | 1050.795 | 988.583 | 932.107 |
| 66.5 | 906.153 | 994.416 | 1025.521 | 953.103 | 890.697 |
| 67.0 | 884.962 | 973.030 | 1000.248 | 914.512 | 847.343 |
| 67.5 | 863.188 | 952.520 | 973.030 | 875.727 | 803.698 |
| 68.0 | 841.122 | 931.426 | 944.452 | 835.290 | 762.385 |
| 68.5 | 819.056 | 909.846 | 915.484 | 794.755 | 720.878 |
| 69.0 | 796.504 | 887.975 | 885.545 | 754.414 | 676.358 |
| 69.5 | 775.508 | 866.201 | 854.925 | 714.171 | 631.255 |
| 70.0 | 756.067 | 844.233 | 823.528 | 671.012 | 587.804 |
| 70.5 | 737.306 | 821.681 | 793.005 | 627.852 | 545.422 |
| 71.0 | 714.657 | 799.615 | 760.636 | 585.179 | 504.984 |
| 71.5 | 691.522 | 780.368 | 727.586 | 543.089 | 466.782 |
| 72.0 | 668.679 | 757.622 | 693.661 | 502.651 | 429.650 |
| 72.5 | 645.835 | 737.501 | 655.264 | 463.477 | 394.072 |
| 73.0 | 622.798 | 715.240 | 617.160 | 427.025 | 361.994 |
| 73.5 | 600.635 | 691.814 | 577.208 | 393.295 | 332.638 |
| 74.0 | 578.277 | 668.193 | 537.937 | 361.120 | 305.712 |
| 74.5 | 556.017 | 643.794 | 498.180 | 331.277 | 280.828 |
| 75.0 | 533.077 | 619.201 | 458.714 | 303.671 | 257.595 |
| 75.5 | 511.011 | 593.928 | 420.707 | 278.106 | 236.891 |
| 76.0 | 489.723 | 568.071 | 383.866 | 254.874 | 217.449 |
| 76.5 | 467.366 | 542.506 | 349.261 | 233.780 | 200.050 |
| 77.0 | 445.786 | 515.968 | 317.377 | 214.436 | 184.205 |
| 77.5 | 423.429 | 489.334 | 288.021 | 197.133 | 169.721 |
| 78.0 | 402.043 | 461.922 | 260.900 | 181.678 | 157.182 |
| 78.5 | 380.561 | 432.955 | 236.405 | 167.194 | 145.517 |
| 79.0 | 359.078 | 403.987 | 214.825 | 153.974 | 134.436 |
| 79.5 | 337.887 | 374.534 | 194.995 | 142.018 | 124.715 |
| 80.0 | 317.085 | 344.497 | 177.109 | 131.033 | 116.064 |
| 80.5 | 296.186 | 313.780 | 160.973 | 121.216 | 108.190 |
| 81.0 | 274.898 | 283.647 | 146.100 | 112.078 | 100.997 |
| 81.5 | 253.999 | 253.513 | 132.492 | 103.816 | 93.998 |
| 82.0 | 233.683 | 224.643 | 120.244 | 96.039 | 86.902 |
| 82.5 | 213.561 | 198.203 | 109.162 | 88.457 | 80.195 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|-------|---------|---------|--------|--------|--------|
| 83.0 | 193.051 | 173.707 | 98.956 | 80.681 | 73.682 |
| 83.5 | 173.318 | 152.419 | 89.721 | 73.585 | 67.752 |
| 84.0 | 154.266 | 133.464 | 80.681 | 66.878 | 62.212 |
| 84.5 | 137.060 | 116.647 | 71.835 | 60.462 | 57.060 |
| 85.0 | 121.118 | 101.580 | 63.281 | 54.727 | 52.588 |
| 85.5 | 106.538 | 87.777 | 55.310 | 49.672 | 49.089 |
| 86.0 | 91.568 | 75.043 | 47.922 | 45.492 | 45.881 |
| 86.5 | 76.890 | 63.184 | 41.215 | 41.215 | 41.701 |
| 87.0 | 62.309 | 51.616 | 35.480 | 36.063 | 35.577 |
| 87.5 | 48.700 | 40.729 | 29.939 | 29.259 | 28.773 |
| 88.0 | 36.161 | 30.717 | 23.427 | 23.524 | 24.301 |
| 88.5 | 24.982 | 21.482 | 16.817 | 18.664 | 18.955 |
| 89.0 | 15.553 | 13.414 | 11.276 | 11.470 | 11.373 |
| 89.5 | 7.388 | 6.902 | 5.346 | 5.346 | 4.957 |
| 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 |

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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-24-L75-830-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-24-L75-830-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-24-L75-830-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 889.32 | N.A. | 11.80 |
| 0-30 | 1918.91 | N.A. | 25.60 |
| 0-40 | 3203.62 | N.A. | 42.70 |
| 0-60 | 5904.49 | N.A. | 78.60 |
| 0-80 | 7413.9 | N.A. | 98.70 |
| 0-90 | 7509.32 | N.A. | 100.00 |
| 10-90 | 7281.69 | N.A. | 97.00 |
| 20-40 | 2314.31 | N.A. | 30.80 |
| 20-50 | 3701.33 | N.A. | 49.30 |
| 40-70 | 3727.04 | N.A. | 49.60 |
| 60-80 | 1509.41 | N.A. | 20.10 |
| 70-80 | 483.24 | N.A. | 6.40 |
| 80-90 | 95.42 | N.A. | 1.30 |
| 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 | 7509.32 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 227.64 |
| 10-20 | 661.68 |
| 20-30 | 1029.59 |
| 30-40 | 1284.72 |
| 40-50 | 1387.02 |
| 50-60 | 1313.85 |
| 60-70 | 1026.17 |
| 70-80 | 483.24 |
| 80-90 | 95.42 |
| 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-24-L75-830-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 | 98 | 94 | 91 | 94 | 91 | 89 | 90 | 88 | 86 | 84 |
| 2 | 99 | 90 | 84 | 78 | 96 | 89 | 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 | 39 | 51 | 44 | 39 | 50 | 44 | 39 | 37 |
| 7 | 64 | 50 | 41 | 35 | 62 | 50 | 41 | 35 | 48 | 40 | 35 | 46 | 40 | 34 | 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 | 32 | 28 | 38 | 32 | 27 | 26 |
| 10 | 52 | 39 | 31 | 25 | 51 | 38 | 30 | 25 | 37 | 30 | 25 | 36 | 30 | 25 | 35 | 29 | 25 | 23 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BAR-24-L75-830-DIM-UNV_.IES

UGR TABLE - CORRECTED

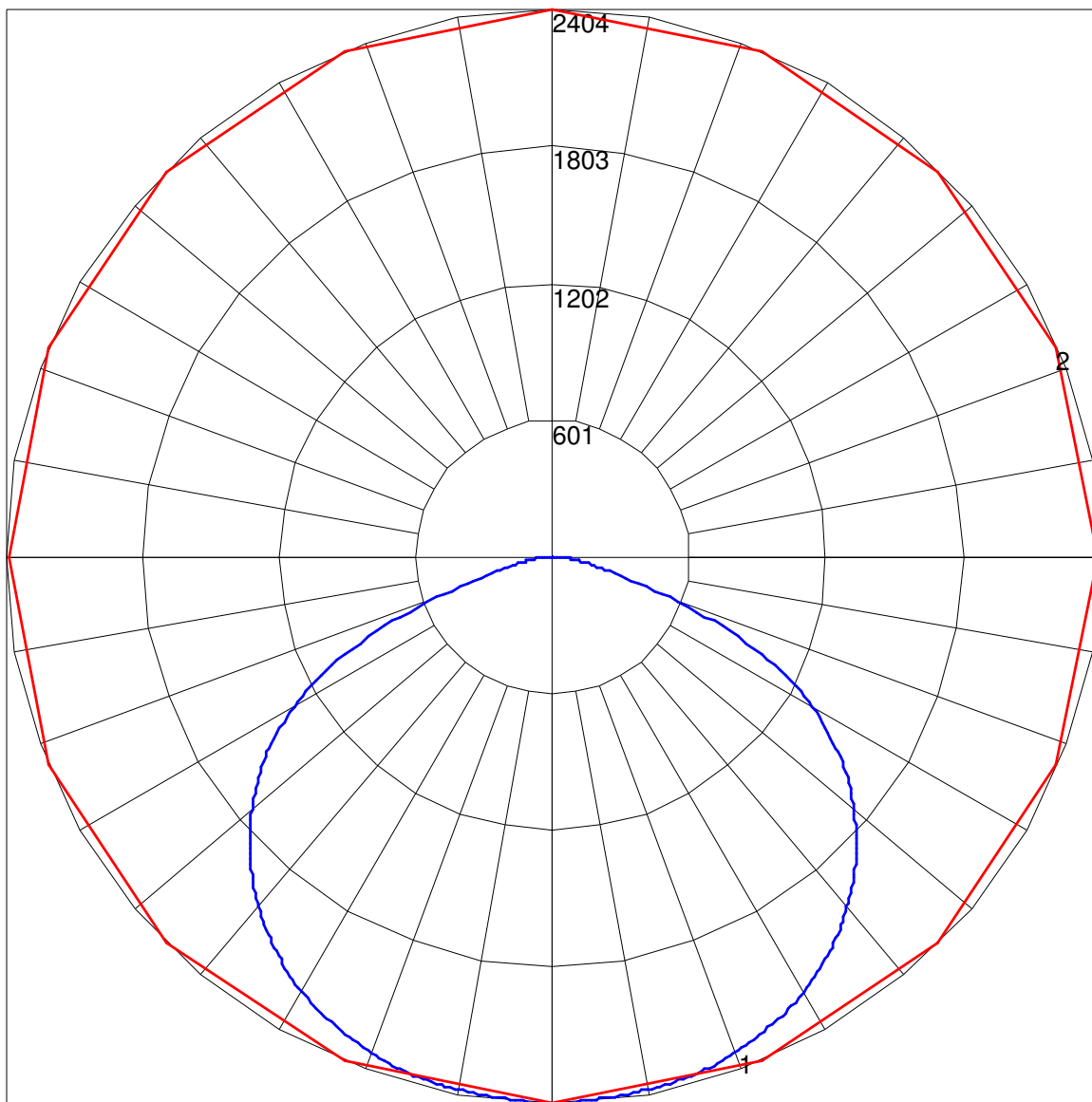
Reflectances

| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 | 16.7 | 18.4 | 17.1 | 18.7 | 19.0 | 17.3 | 19.0 | 17.7 | 19.3 | 19.6 |
| | 3H | 18.7 | 20.2 | 19.1 | 20.5 | 20.9 | 18.7 | 20.2 | 19.1 | 20.5 | 20.9 |
| | 4H | 19.4 | 20.8 | 19.8 | 21.2 | 21.6 | 18.8 | 20.3 | 19.2 | 20.6 | 21.0 |
| | 6H | 19.9 | 21.3 | 20.4 | 21.6 | 22.0 | 18.9 | 20.2 | 19.3 | 20.6 | 21.0 |
| | 8H | 20.1 | 21.3 | 20.5 | 21.7 | 22.1 | 18.9 | 20.2 | 19.3 | 20.6 | 21.0 |
| | 12H | 20.2 | 21.4 | 20.6 | 21.7 | 22.2 | 18.9 | 20.1 | 19.3 | 20.5 | 20.9 |
| 4H | 2H | 17.5 | 18.9 | 17.9 | 19.3 | 19.7 | 18.0 | 19.4 | 18.4 | 19.7 | 20.1 |
| | 3H | 19.7 | 20.9 | 20.1 | 21.3 | 21.7 | 19.5 | 20.7 | 19.9 | 21.1 | 21.5 |
| | 4H | 20.6 | 21.7 | 21.0 | 22.1 | 22.5 | 19.8 | 20.8 | 20.2 | 21.2 | 21.7 |
| | 6H | 21.3 | 22.2 | 21.7 | 22.6 | 23.1 | 19.9 | 20.8 | 20.3 | 21.2 | 21.7 |
| | 8H | 21.4 | 22.3 | 21.9 | 22.7 | 23.2 | 19.9 | 20.7 | 20.3 | 21.2 | 21.7 |
| | 12H | 21.5 | 22.3 | 22.0 | 22.8 | 23.3 | 19.9 | 20.7 | 20.4 | 21.1 | 21.6 |
| 8H | 4H | 20.8 | 21.7 | 21.3 | 22.1 | 22.6 | 20.0 | 20.9 | 20.5 | 21.3 | 21.8 |
| | 6H | 21.5 | 22.3 | 22.0 | 22.8 | 23.2 | 20.2 | 20.9 | 20.6 | 21.4 | 21.8 |
| | 8H | 21.8 | 22.4 | 22.3 | 22.9 | 23.4 | 20.2 | 20.8 | 20.7 | 21.3 | 21.8 |
| | 12H | 21.9 | 22.5 | 22.4 | 23.0 | 23.5 | 20.2 | 20.8 | 20.7 | 21.3 | 21.8 |
| 12H | 4H | 20.8 | 21.6 | 21.3 | 22.1 | 22.5 | 20.1 | 20.8 | 20.5 | 21.3 | 21.8 |
| | 6H | 21.6 | 22.2 | 22.1 | 22.7 | 23.2 | 20.2 | 20.9 | 20.7 | 21.3 | 21.9 |
| | 8H | 21.8 | 22.4 | 22.3 | 22.9 | 23.4 | 20.3 | 20.8 | 20.8 | 21.3 | 21.9 |

Maximum UGR = 23.5

POLAR GRAPH



Maximum Candela = 2403.9 Located At Horizontal Angle = 90, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)