**IES ROAD REPORT**
**PHOTOMETRIC FILENAME : EPL-MJ-15W-LED-XX-WLM.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 193033
[TESTLAB] RADIANT IMAGING PROSOURCE
[TESTDATE] 2021-04-05 16:17:58
[ISSUEDATE] 2021-04-05 16:17:58
[MANUFAC] LARSON ELECTRONICS LLC
[LUMCAT] EPL-MJ-15W-LED-XX-WLM-50K
[LUMINAIRE] CLASS 1 DIV 1 EXPLOSION PROOF LED MASON JAR FIXTURE
[MORE] WALL MOUNT, 5000K
[LAMPPOSITION] 0,0
[OTHER] ZVISION 9107GT SYSTEM

**CHARACTERISTICS**



| | |
|---|---|
| IES Classification | Type VS |
| Longitudinal Classification | Very Short |
| Lumens Per Lamp | 2242 (1 lamp) |
| Total Lamp Lumens | 2242 |
| Luminaire Lumens | 2241 |
| Downward Total Efficiency | 73 % |
| Total Luminaire Efficiency | 100 % |
| Luminaire Efficacy Rating (LER) | 150 |
| Total Luminaire Watts | 14.9 |
| Ballast Factor | 1.00 |
| Upward Waste Light Ratio | 0.27 |
| Maximum Candela | 331.713 |
| Maximum Candela Angle | 247.5H 46.5V |
| Maximum Candela (<90 Degrees Vertical) | 331.713 |
| Maximum Candela Angle (<90 Degrees Vertical) | 247.5H 46.5V |
| Maximum Candela At 90 Degrees Vertical | 236.991 (10.6% Lamp Lumens) |
| Maximum Candela from 80 to <90 Degrees Vertical | 259.198 (11.6% Lamp Lumens) |
| Cutoff Classification (deprecated) | Non-Cutoff |

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**IES ROAD REPORT**
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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

| | Lumens | % Lamp | % Luminaire |
|---|---|---|---|
| FL - Front-Low (0-30) | 86.7 | 3.9 | 3.9 |
| FM - Front-Medium (30-60) | 336.4 | 15.0 | 15.0 |
| FH - Front-High (60-80) | 274.8 | 12.3 | 12.3 |
| FVH - Front-Very High (80-90) | 127.1 | 5.7 | 5.7 |
| BL - Back-Low (0-30) | 86.1 | 3.8 | 3.8 |
| BM - Back-Medium (30-60) | 326.2 | 14.5 | 14.6 |
| BH - Back-High (60-80) | 272.3 | 12.1 | 12.2 |
| BVH - Back-Very High (80-90) | 126.5 | 5.6 | 5.6 |
| UL - Uplight-Low (90-100) | 219.2 | 9.8 | 9.8 |
| UH - Uplight-High (100-180) | 386.0 | 17.2 | 17.2 |
| Total | 2241.3 | 99.9 | 100.0 |
| BUG Rating | B1-U3-G2 | | |

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**IES ROAD REPORT**
**PHOTOMETRIC FILENAME : EPL-MJ-15W-LED-XX-WLM.IES**

**CANDELA TABULATION**

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 | 112.5 | 135.0 | 157.5 | 180.0 | 202.5 |
| 0.0 | 239.302 | 239.302 | 239.302 | 239.302 | 239.302 | 239.302 | 239.302 | 239.302 | 239.302 | 239.302 |
| 0.5 | 240.538 | 240.610 | 237.645 | 239.638 | 237.465 | 239.074 | 235.713 | 238.720 | 238.822 | 238.900 |
| 1.0 | 235.298 | 241.582 | 232.832 | 239.530 | 232.694 | 238.353 | 236.649 | 235.196 | 236.559 | 240.028 |
| 1.5 | 233.150 | 235.232 | 228.900 | 233.582 | 230.605 | 236.655 | 239.668 | 233.864 | 240.334 | 234.380 |
| 2.0 | 232.111 | 231.727 | 226.590 | 230.767 | 229.351 | 236.859 | 238.263 | 236.799 | 243.245 | 232.946 |
| 2.5 | 233.906 | 229.705 | 226.026 | 228.594 | 229.363 | 237.723 | 236.739 | 243.065 | 242.795 | 239.896 |
| 3.0 | 237.861 | 229.008 | 226.044 | 225.407 | 229.315 | 237.111 | 236.223 | 244.205 | 242.627 | 240.718 |
| 3.5 | 240.904 | 230.059 | 223.577 | 221.470 | 227.700 | 236.871 | 237.915 | 242.729 | 243.875 | 236.625 |
| 4.0 | 240.904 | 231.475 | 221.920 | 220.456 | 226.866 | 237.045 | 238.864 | 241.294 | 244.739 | 233.132 |
| 4.5 | 240.802 | 232.033 | 222.947 | 222.310 | 227.196 | 235.887 | 238.972 | 241.018 | 244.313 | 233.126 |
| 5.0 | 239.758 | 233.030 | 223.745 | 223.799 | 226.866 | 233.780 | 239.080 | 237.051 | 242.375 | 236.151 |
| 5.5 | 239.308 | 232.003 | 221.998 | 224.879 | 226.464 | 231.673 | 239.152 | 233.870 | 239.008 | 238.161 |
| 6.0 | 238.287 | 233.294 | 220.042 | 224.951 | 226.152 | 231.079 | 238.780 | 233.228 | 235.845 | 235.413 |
| 6.5 | 235.845 | 233.468 | 219.351 | 224.255 | 228.402 | 230.107 | 239.314 | 233.564 | 234.404 | 233.228 |
| 7.0 | 236.331 | 231.547 | 220.996 | 222.971 | 230.899 | 228.300 | 239.158 | 234.248 | 233.750 | 231.997 |
| 7.5 | 237.009 | 230.473 | 224.027 | 221.944 | 229.975 | 226.938 | 237.651 | 237.873 | 236.187 | 232.286 |
| 8.0 | 235.719 | 230.515 | 225.215 | 223.223 | 227.880 | 225.455 | 235.148 | 238.251 | 235.437 | 231.703 |
| 8.5 | 236.187 | 230.719 | 222.340 | 228.084 | 224.483 | 225.497 | 234.302 | 236.535 | 233.066 | 234.668 |
| 9.0 | 234.866 | 231.415 | 218.559 | 232.310 | 222.718 | 224.267 | 235.473 | 232.988 | 230.089 | 235.178 |
| 9.5 | 228.912 | 230.431 | 215.732 | 234.422 | 221.974 | 221.434 | 235.683 | 230.089 | 226.386 | 232.400 |
| 10.0 | 221.872 | 227.898 | 214.712 | 235.118 | 221.422 | 217.593 | 234.626 | 229.555 | 222.658 | 230.239 |
| 10.5 | 219.141 | 225.179 | 214.508 | 228.084 | 219.898 | 214.310 | 231.847 | 231.571 | 221.452 | 230.413 |
| 11.0 | 219.459 | 226.176 | 216.531 | 219.057 | 219.435 | 213.296 | 227.556 | 231.679 | 226.146 | 233.786 |
| 11.5 | 215.438 | 222.064 | 219.525 | 211.567 | 218.511 | 214.682 | 226.182 | 227.400 | 226.458 | 233.588 |
| 12.0 | 213.320 | 218.043 | 218.217 | 209.490 | 215.546 | 216.687 | 224.345 | 225.755 | 229.273 | 230.773 |
| 12.5 | 212.797 | 220.192 | 215.732 | 210.463 | 212.959 | 217.167 | 222.899 | 223.697 | 230.185 | 229.195 |
| 13.0 | 210.871 | 221.662 | 213.187 | 210.313 | 212.185 | 215.090 | 223.553 | 221.062 | 228.456 | 229.417 |
| 13.5 | 207.558 | 218.667 | 211.003 | 207.348 | 211.141 | 211.297 | 223.979 | 222.418 | 226.278 | 228.726 |
| 14.0 | 205.823 | 212.707 | 212.947 | 204.299 | 207.144 | 209.526 | 219.610 | 223.007 | 225.593 | 224.123 |
| 14.5 | 202.570 | 210.601 | 212.635 | 202.942 | 202.510 | 210.127 | 216.951 | 222.472 | 224.945 | 220.300 |
| 15.0 | 199.545 | 211.645 | 211.657 | 202.594 | 199.083 | 210.469 | 216.849 | 221.764 | 223.775 | 217.113 |
| 15.5 | 198.975 | 213.470 | 211.813 | 200.800 | 198.759 | 210.193 | 217.047 | 219.706 | 221.956 | 215.696 |
| 16.0 | 197.511 | 214.838 | 212.413 | 200.265 | 199.047 | 212.875 | 213.632 | 216.092 | 219.910 | 215.444 |
| 16.5 | 194.402 | 212.701 | 208.464 | 199.983 | 200.031 | 218.241 | 209.802 | 213.572 | 216.669 | 213.908 |
| 17.0 | 189.828 | 207.360 | 203.440 | 197.324 | 198.447 | 223.409 | 206.135 | 211.663 | 213.830 | 210.949 |
| 17.5 | 186.317 | 200.608 | 200.379 | 191.305 | 195.164 | 222.911 | 204.695 | 208.722 | 212.935 | 208.500 |
| 18.0 | 185.087 | 198.717 | 199.449 | 187.097 | 192.385 | 218.811 | 202.402 | 204.869 | 211.885 | 204.395 |
| 18.5 | 184.907 | 198.339 | 195.962 | 186.017 | 191.305 | 213.974 | 199.593 | 200.163 | 210.319 | 199.293 |
| 19.0 | 186.545 | 199.353 | 194.942 | 186.179 | 191.707 | 211.849 | 197.150 | 197.348 | 208.170 | 194.570 |
| 19.5 | 191.533 | 204.773 | 196.406 | 186.683 | 193.087 | 212.023 | 193.669 | 194.221 | 204.959 | 191.557 |
| 20.0 | 192.187 | 207.084 | 191.671 | 185.903 | 194.570 | 213.770 | 190.218 | 190.746 | 202.774 | 189.354 |
| 20.5 | 183.754 | 198.039 | 185.291 | 184.030 | 193.447 | 212.527 | 186.797 | 187.553 | 200.836 | 185.915 |
| 21.0 | 177.752 | 191.347 | 186.839 | 182.122 | 192.733 | 206.531 | 184.192 | 184.000 | 199.137 | 184.420 |
| 21.5 | 180.813 | 192.013 | 185.933 | 183.784 | 190.416 | 198.585 | 182.764 | 181.251 | 197.655 | 186.203 |
| 22.0 | 187.511 | 194.744 | 183.592 | 185.831 | 188.904 | 194.173 | 182.944 | 179.553 | 195.194 | 191.046 |
| 22.5 | 188.922 | 195.386 | 182.584 | 185.681 | 189.084 | 191.004 | 185.087 | 179.463 | 193.135 | 194.119 |
| 23.0 | 183.148 | 189.792 | 184.804 | 181.335 | 189.606 | 188.568 | 185.987 | 181.053 | 190.830 | 190.992 |
| 23.5 | 178.394 | 186.371 | 185.573 | 180.783 | 189.288 | 187.691 | 183.310 | 183.268 | 191.383 | 187.307 |
| 24.0 | 180.243 | 188.664 | 186.119 | 181.491 | 190.098 | 186.647 | 179.523 | 185.597 | 190.776 | 188.010 |
| 24.5 | 184.054 | 192.853 | 187.799 | 181.587 | 191.725 | 186.149 | 177.422 | 183.706 | 189.672 | 190.836 |
| 25.0 | 187.079 | 196.988 | 187.974 | 181.089 | 192.013 | 187.643 | 178.857 | 178.118 | 189.306 | 193.273 |
| 25.5 | 188.166 | 195.800 | 191.034 | 178.010 | 191.593 | 189.300 | 182.122 | 175.412 | 190.752 | 193.513 |
| 26.0 | 188.934 | 192.763 | 193.525 | 177.092 | 189.174 | 191.785 | 183.340 | 175.490 | 193.597 | 190.326 |

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**CANDELA TABULATION - (Cont.)**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **26.5** | 194.780 | 193.063 | 194.618 | 179.907 | 185.915 | 195.632 | 183.778 | 177.980 | 193.891 | 186.059 |
| **27.0** | 206.321 | 196.946 | 197.024 | 183.850 | 185.033 | 195.410 | 183.868 | 180.153 | 194.576 | 186.299 |
| **27.5** | 224.261 | 202.624 | 199.185 | 187.992 | 187.595 | 196.424 | 183.676 | 179.979 | 194.263 | 190.758 |
| **28.0** | 245.370 | 208.242 | 203.302 | 193.063 | 192.451 | 195.524 | 184.732 | 180.291 | 192.985 | 198.003 |
| **28.5** | 262.859 | 215.510 | 209.550 | 198.291 | 197.571 | 195.692 | 188.994 | 181.305 | 192.415 | 206.219 |
| **29.0** | 266.910 | 219.808 | 217.425 | 204.971 | 202.414 | 197.402 | 194.450 | 183.472 | 193.975 | 213.872 |
| **29.5** | 262.769 | 224.291 | 226.758 | 212.713 | 206.699 | 200.962 | 199.593 | 186.965 | 198.885 | 218.127 |
| **30.0** | 246.612 | 233.018 | 236.079 | 222.821 | 214.094 | 202.720 | 205.715 | 193.513 | 204.431 | 224.483 |
| **30.5** | 233.774 | 241.691 | 243.647 | 236.631 | 224.387 | 204.767 | 211.645 | 201.226 | 210.163 | 236.319 |
| **31.0** | 234.566 | 250.207 | 248.845 | 247.152 | 236.481 | 206.357 | 219.249 | 207.732 | 214.460 | 248.095 |
| **31.5** | 242.039 | 258.196 | 253.322 | 251.750 | 247.830 | 208.500 | 227.118 | 215.084 | 218.673 | 259.936 |
| **32.0** | 252.110 | 261.779 | 259.204 | 245.778 | 251.936 | 212.341 | 236.121 | 223.037 | 225.653 | 265.590 |
| **32.5** | 271.226 | 264.546 | 265.236 | 235.869 | 248.839 | 218.397 | 244.421 | 232.580 | 232.466 | 265.428 |
| **33.0** | 281.693 | 265.686 | 270.908 | 220.900 | 241.630 | 228.402 | 244.625 | 240.766 | 239.728 | 258.748 |
| **33.5** | 271.592 | 264.426 | 275.121 | 215.684 | 233.372 | 236.031 | 237.081 | 245.178 | 246.228 | 249.169 |
| **34.0** | 254.264 | 264.024 | 285.084 | 219.489 | 226.656 | 242.015 | 228.000 | 243.389 | 253.856 | 239.146 |
| **34.5** | 243.419 | 264.354 | 293.757 | 227.970 | 225.851 | 247.578 | 220.744 | 234.140 | 260.566 | 235.761 |
| **35.0** | 243.887 | 267.349 | 292.305 | 242.897 | 231.751 | 250.837 | 219.886 | 221.158 | 262.907 | 242.309 |
| **35.5** | 248.203 | 274.563 | 286.987 | 255.603 | 243.005 | 254.114 | 224.309 | 215.726 | 264.486 | 259.120 |
| **36.0** | 256.161 | 281.939 | 292.605 | 263.964 | 257.578 | 258.682 | 233.690 | 214.934 | 270.194 | 275.115 |
| **36.5** | 264.882 | 283.524 | 298.985 | 276.490 | 267.595 | 260.945 | 247.914 | 220.918 | 276.003 | 283.314 |
| **37.0** | 273.140 | 282.011 | 300.731 | 283.626 | 272.144 | 262.985 | 260.903 | 234.938 | 280.559 | 291.434 |
| **37.5** | 282.077 | 284.994 | 301.836 | 278.272 | 279.719 | 267.325 | 273.951 | 254.643 | 285.582 | 299.213 |
| **38.0** | 291.314 | 291.518 | 301.962 | 264.390 | 283.032 | 272.150 | 282.515 | 266.694 | 294.441 | 302.526 |
| **38.5** | 295.558 | 295.828 | 305.527 | 250.831 | 278.848 | 275.973 | 281.417 | 277.834 | 298.288 | 297.406 |
| **39.0** | 292.166 | 296.896 | 308.036 | 241.132 | 271.532 | 276.682 | 269.593 | 286.135 | 290.768 | 288.445 |
| **39.5** | 285.012 | 300.593 | 310.172 | 236.841 | 264.714 | 273.357 | 253.784 | 282.467 | 281.033 | 279.166 |
| **40.0** | 280.253 | 308.444 | 307.771 | 240.184 | 259.780 | 271.508 | 241.817 | 269.239 | 279.022 | 274.473 |
| **40.5** | 278.902 | 310.088 | 302.070 | 248.269 | 258.880 | 269.995 | 238.185 | 254.859 | 279.268 | 274.401 |
| **41.0** | 282.509 | 304.200 | 297.418 | 256.887 | 264.042 | 268.753 | 239.176 | 244.205 | 278.470 | 281.459 |
| **41.5** | 287.575 | 300.713 | 297.430 | 265.302 | 270.037 | 271.616 | 243.641 | 241.666 | 281.783 | 289.808 |
| **42.0** | 291.302 | 301.433 | 297.814 | 271.946 | 273.321 | 276.430 | 250.177 | 244.223 | 286.873 | 294.699 |
| **42.5** | 292.251 | 303.624 | 297.250 | 278.770 | 273.837 | 282.125 | 258.682 | 249.325 | 289.838 | 296.422 |
| **43.0** | 292.533 | 304.830 | 296.992 | 285.300 | 275.973 | 289.652 | 267.523 | 254.072 | 292.202 | 301.175 |
| **43.5** | 294.195 | 304.710 | 298.396 | 289.514 | 282.509 | 290.942 | 278.680 | 259.648 | 297.466 | 308.282 |
| **44.0** | 298.066 | 305.053 | 299.615 | 291.086 | 291.362 | 288.439 | 287.737 | 269.581 | 302.064 | 313.521 |
| **44.5** | 303.702 | 305.383 | 300.107 | 289.562 | 296.128 | 284.652 | 291.326 | 279.965 | 302.136 | 313.539 |
| **45.0** | 308.186 | 304.602 | 301.331 | 287.281 | 296.590 | 282.954 | 290.162 | 287.131 | 299.255 | 308.810 |
| **45.5** | 311.174 | 303.396 | 304.020 | 285.588 | 295.402 | 282.719 | 288.985 | 287.863 | 295.329 | 303.786 |
| **46.0** | 313.605 | 302.964 | 305.905 | 285.006 | 294.147 | 283.734 | 289.322 | 286.645 | 293.313 | 303.564 |
| **46.5** | 315.118 | 303.804 | 306.841 | 283.944 | 293.955 | 284.400 | 287.935 | 287.713 | 292.269 | 305.659 |
| **47.0** | 316.120 | 303.774 | 306.469 | 281.867 | 293.643 | 284.238 | 283.128 | 292.281 | 292.082 | 307.255 |
| **47.5** | 314.878 | 302.130 | 305.533 | 279.004 | 292.281 | 285.240 | 273.627 | 293.961 | 293.775 | 305.143 |
| **48.0** | 311.054 | 301.157 | 304.716 | 277.246 | 289.466 | 287.935 | 266.064 | 289.003 | 297.742 | 302.352 |
| **48.5** | 306.883 | 301.547 | 301.331 | 277.960 | 287.299 | 290.864 | 262.769 | 280.565 | 300.755 | 302.178 |
| **49.0** | 304.885 | 302.958 | 296.980 | 279.869 | 286.915 | 292.563 | 264.534 | 274.521 | 303.804 | 304.206 |
| **49.5** | 303.654 | 303.426 | 293.529 | 282.137 | 285.973 | 292.178 | 268.609 | 274.233 | 305.245 | 306.241 |
| **50.0** | 302.772 | 303.462 | 291.110 | 284.466 | 284.406 | 291.146 | 273.399 | 275.943 | 304.993 | 306.343 |
| **50.5** | 302.058 | 303.468 | 289.772 | 286.975 | 282.365 | 289.802 | 276.694 | 275.763 | 302.424 | 306.463 |
| **51.0** | 302.850 | 301.770 | 289.328 | 291.092 | 281.489 | 288.751 | 279.695 | 275.895 | 299.531 | 304.927 |
| **51.5** | 304.794 | 299.645 | 289.172 | 295.984 | 282.419 | 287.059 | 282.569 | 277.366 | 296.146 | 304.110 |
| **52.0** | 307.231 | 297.286 | 289.532 | 299.273 | 284.766 | 285.762 | 285.384 | 280.847 | 291.608 | 303.990 |
| **52.5** | 307.873 | 296.056 | 290.252 | 301.776 | 288.019 | 283.380 | 287.827 | 284.610 | 289.238 | 305.029 |
| **53.0** | 306.973 | 295.612 | 291.692 | 302.070 | 291.800 | 281.381 | 288.133 | 286.471 | 287.869 | 306.631 |
| **53.5** | 305.443 | 295.371 | 292.743 | 299.885 | 295.504 | 280.439 | 288.187 | 287.083 | 286.423 | 308.330 |
| **54.0** | 304.302 | 294.717 | 293.361 | 297.184 | 297.526 | 281.045 | 288.619 | 287.959 | 285.450 | 309.470 |

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**CANDELA TABULATION - (Cont.)**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **54.5** | 303.624 | 293.397 | 293.709 | 295.065 | 297.172 | 282.846 | 289.015 | 289.370 | 285.684 | 310.412 |
| **55.0** | 303.072 | 292.082 | 293.097 | 292.779 | 295.726 | 283.872 | 289.424 | 290.768 | 286.303 | 310.796 |
| **55.5** | 301.499 | 290.960 | 291.692 | 289.844 | 294.303 | 285.192 | 288.097 | 292.263 | 287.089 | 311.517 |
| **56.0** | 298.901 | 289.976 | 290.558 | 286.471 | 292.106 | 286.189 | 284.508 | 293.547 | 287.995 | 310.706 |
| **56.5** | 296.758 | 288.841 | 289.076 | 283.260 | 288.061 | 286.873 | 279.178 | 293.901 | 289.562 | 308.120 |
| **57.0** | 294.963 | 287.491 | 286.777 | 281.609 | 283.566 | 287.407 | 274.311 | 292.088 | 291.248 | 303.756 |
| **57.5** | 293.937 | 285.792 | 284.622 | 280.643 | 278.638 | 287.467 | 270.974 | 288.529 | 292.347 | 299.447 |
| **58.0** | 293.133 | 284.202 | 282.990 | 279.532 | 275.745 | 286.807 | 269.467 | 284.292 | 292.245 | 295.726 |
| **58.5** | 292.581 | 282.599 | 281.981 | 277.894 | 274.095 | 285.690 | 268.165 | 279.358 | 291.074 | 292.419 |
| **59.0** | 292.010 | 281.489 | 281.453 | 276.411 | 272.996 | 284.556 | 266.784 | 273.633 | 289.238 | 289.946 |
| **59.5** | 291.266 | 280.673 | 281.015 | 275.997 | 272.402 | 282.834 | 266.034 | 269.221 | 286.405 | 287.677 |
| **60.0** | 291.098 | 280.229 | 280.949 | 276.616 | 272.354 | 281.093 | 265.422 | 266.989 | 283.662 | 286.249 |
| **60.5** | 291.530 | 279.388 | 281.333 | 277.870 | 273.104 | 278.386 | 264.510 | 266.424 | 281.003 | 285.456 |
| **61.0** | 291.938 | 278.776 | 281.825 | 279.538 | 273.411 | 275.121 | 264.120 | 266.340 | 278.884 | 285.138 |
| **61.5** | 291.800 | 278.212 | 282.287 | 281.009 | 273.345 | 272.648 | 264.570 | 266.316 | 276.910 | 285.228 |
| **62.0** | 291.146 | 277.804 | 282.503 | 281.939 | 273.681 | 270.488 | 265.686 | 266.436 | 275.061 | 285.732 |
| **62.5** | 290.198 | 277.468 | 282.731 | 282.407 | 273.975 | 269.665 | 267.283 | 267.499 | 273.741 | 286.513 |
| **63.0** | 288.835 | 277.372 | 282.930 | 282.317 | 273.531 | 269.527 | 268.453 | 268.999 | 272.942 | 287.143 |
| **63.5** | 287.179 | 277.372 | 282.750 | 281.429 | 272.546 | 270.320 | 269.239 | 270.452 | 272.690 | 287.383 |
| **64.0** | 285.630 | 277.426 | 282.581 | 279.550 | 271.202 | 271.814 | 269.821 | 271.490 | 273.020 | 287.551 |
| **64.5** | 283.950 | 277.342 | 282.047 | 277.282 | 269.671 | 273.789 | 269.539 | 272.048 | 273.807 | 287.113 |
| **65.0** | 282.419 | 277.330 | 281.453 | 274.623 | 268.093 | 275.517 | 267.769 | 272.774 | 274.563 | 286.213 |
| **65.5** | 280.643 | 277.186 | 280.481 | 272.324 | 267.031 | 276.970 | 265.272 | 272.570 | 275.487 | 284.682 |
| **66.0** | 278.728 | 276.778 | 279.280 | 270.404 | 266.370 | 278.476 | 262.601 | 271.154 | 276.309 | 282.930 |
| **66.5** | 277.138 | 275.937 | 277.750 | 268.591 | 265.236 | 279.136 | 259.636 | 268.129 | 277.012 | 280.919 |
| **67.0** | 275.265 | 275.049 | 276.171 | 267.241 | 264.288 | 278.782 | 257.644 | 264.924 | 277.144 | 278.404 |
| **67.5** | 273.369 | 274.101 | 275.043 | 266.154 | 263.699 | 277.534 | 256.431 | 261.659 | 276.778 | 276.027 |
| **68.0** | 271.760 | 273.315 | 274.041 | 265.644 | 262.811 | 275.547 | 255.489 | 259.336 | 275.907 | 273.567 |
| **68.5** | 270.374 | 272.408 | 273.242 | 265.470 | 261.113 | 273.212 | 254.264 | 258.178 | 275.133 | 271.166 |
| **69.0** | 269.539 | 271.082 | 272.528 | 265.308 | 258.676 | 271.190 | 252.974 | 257.512 | 274.701 | 269.143 |
| **69.5** | 268.837 | 269.833 | 271.664 | 264.882 | 256.629 | 269.251 | 252.068 | 256.917 | 274.203 | 266.778 |
| **70.0** | 268.099 | 268.453 | 271.004 | 264.210 | 254.709 | 267.949 | 251.402 | 256.125 | 273.333 | 265.008 |
| **70.5** | 267.103 | 267.223 | 270.698 | 263.321 | 252.836 | 266.694 | 250.801 | 255.435 | 272.006 | 263.765 |
| **71.0** | 265.674 | 266.436 | 270.338 | 262.727 | 251.660 | 265.866 | 250.057 | 254.475 | 270.884 | 262.991 |
| **71.5** | 264.114 | 265.746 | 269.599 | 261.827 | 251.246 | 265.608 | 249.529 | 252.956 | 270.049 | 262.499 |
| **72.0** | 262.277 | 265.188 | 268.453 | 261.089 | 251.240 | 265.542 | 249.481 | 251.528 | 269.179 | 262.301 |
| **72.5** | 260.392 | 264.366 | 267.541 | 259.762 | 251.131 | 265.992 | 249.907 | 250.429 | 268.723 | 262.385 |
| **73.0** | 258.580 | 263.525 | 266.940 | 258.202 | 250.333 | 266.808 | 249.985 | 249.649 | 268.339 | 262.517 |
| **73.5** | 256.623 | 262.637 | 266.094 | 256.653 | 249.277 | 267.433 | 249.229 | 248.701 | 267.949 | 262.583 |
| **74.0** | 255.021 | 261.995 | 264.648 | 254.805 | 248.479 | 267.679 | 247.458 | 247.536 | 267.517 | 261.857 |
| **74.5** | 253.292 | 261.299 | 263.561 | 252.746 | 247.764 | 267.445 | 245.628 | 246.498 | 267.073 | 260.374 |
| **75.0** | 251.930 | 260.374 | 263.045 | 250.807 | 246.852 | 266.940 | 243.533 | 244.926 | 266.484 | 258.364 |
| **75.5** | 250.735 | 259.690 | 262.457 | 249.577 | 246.000 | 265.956 | 241.630 | 243.113 | 265.608 | 256.137 |
| **76.0** | 249.433 | 259.108 | 262.097 | 248.689 | 245.526 | 264.264 | 239.692 | 241.156 | 264.828 | 254.066 |
| **76.5** | 248.233 | 258.652 | 262.181 | 247.758 | 243.989 | 262.127 | 237.291 | 239.254 | 264.264 | 251.846 |
| **77.0** | 246.756 | 257.980 | 261.989 | 246.984 | 241.636 | 259.858 | 234.638 | 238.149 | 263.735 | 249.415 |
| **77.5** | 245.214 | 256.767 | 261.419 | 245.640 | 240.208 | 258.406 | 231.937 | 237.249 | 262.499 | 247.140 |
| **78.0** | 243.695 | 255.903 | 260.789 | 243.839 | 239.806 | 257.457 | 230.221 | 236.205 | 261.089 | 244.998 |
| **78.5** | 242.003 | 255.375 | 260.008 | 242.207 | 239.758 | 256.899 | 229.141 | 234.902 | 260.242 | 244.049 |
| **79.0** | 240.574 | 255.003 | 259.492 | 240.550 | 239.764 | 256.461 | 228.600 | 233.270 | 259.882 | 243.905 |
| **79.5** | 239.152 | 254.379 | 258.754 | 239.200 | 239.506 | 255.789 | 228.534 | 231.943 | 259.402 | 243.737 |
| **80.0** | 237.759 | 253.472 | 257.578 | 237.777 | 238.948 | 255.537 | 227.784 | 230.809 | 259.090 | 243.143 |
| **80.5** | 236.601 | 252.470 | 255.969 | 236.115 | 238.419 | 255.393 | 227.166 | 230.047 | 258.436 | 242.657 |
| **81.0** | 235.280 | 251.282 | 254.607 | 234.800 | 238.149 | 254.955 | 227.166 | 228.978 | 257.289 | 242.825 |
| **81.5** | 233.822 | 250.009 | 253.004 | 233.288 | 237.801 | 254.745 | 227.352 | 227.256 | 256.113 | 242.597 |
| **82.0** | 232.256 | 248.257 | 251.065 | 231.937 | 237.213 | 254.325 | 227.154 | 225.839 | 254.811 | 241.703 |

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Results derived from content of manufacturers photometric file.

**CANDELA TABULATION - (Cont.)**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **82.5** | 230.737 | 246.192 | 248.875 | 230.377 | 235.160 | 253.628 | 225.888 | 224.915 | 253.454 | 240.352 |
| **83.0** | 229.147 | 244.373 | 246.684 | 228.450 | 232.976 | 252.182 | 223.733 | 224.261 | 251.264 | 237.939 |
| **83.5** | 227.118 | 242.753 | 244.944 | 226.536 | 230.935 | 249.469 | 221.050 | 223.469 | 249.241 | 234.986 |
| **84.0** | 225.179 | 241.216 | 243.389 | 224.399 | 228.978 | 246.756 | 217.779 | 222.010 | 246.906 | 232.045 |
| **84.5** | 223.139 | 239.716 | 242.135 | 222.430 | 227.658 | 243.695 | 214.718 | 220.474 | 244.229 | 229.032 |
| **85.0** | 220.936 | 238.534 | 241.258 | 220.432 | 226.374 | 241.486 | 211.993 | 218.559 | 242.195 | 226.596 |
| **85.5** | 219.129 | 237.717 | 240.406 | 218.547 | 225.509 | 239.926 | 209.490 | 216.543 | 240.136 | 224.435 |
| **86.0** | 217.425 | 236.931 | 239.800 | 216.993 | 224.771 | 238.930 | 207.720 | 214.298 | 238.509 | 223.025 |
| **86.5** | 216.206 | 236.301 | 239.188 | 215.840 | 224.231 | 237.933 | 206.237 | 211.939 | 237.303 | 221.920 |
| **87.0** | 214.892 | 235.797 | 238.323 | 214.712 | 223.799 | 237.237 | 205.421 | 210.229 | 236.499 | 221.098 |
| **87.5** | 213.872 | 235.208 | 237.483 | 213.806 | 223.493 | 237.075 | 205.031 | 208.704 | 235.935 | 220.906 |
| **88.0** | 212.893 | 234.572 | 236.295 | 212.761 | 222.971 | 237.015 | 204.785 | 207.678 | 235.539 | 220.744 |
| **88.5** | 211.579 | 233.714 | 235.004 | 211.657 | 222.148 | 236.949 | 204.851 | 206.934 | 235.274 | 220.594 |
| **89.0** | 210.193 | 232.634 | 233.570 | 210.361 | 221.116 | 236.709 | 205.031 | 206.519 | 234.830 | 220.480 |
| **89.5** | 208.158 | 231.559 | 231.769 | 208.596 | 219.874 | 236.061 | 204.707 | 206.447 | 234.284 | 220.282 |
| **90.0** | 205.913 | 230.119 | 230.005 | 206.537 | 218.091 | 234.980 | 203.404 | 206.225 | 233.588 | 219.435 |
| **90.5** | 203.548 | 228.540 | 228.084 | 203.867 | 216.374 | 233.264 | 200.950 | 205.673 | 232.364 | 217.599 |
| **91.0** | 200.938 | 226.596 | 226.020 | 201.322 | 214.478 | 230.629 | 198.237 | 204.767 | 230.665 | 215.402 |
| **91.5** | 198.627 | 224.477 | 224.099 | 198.891 | 212.539 | 228.048 | 195.152 | 203.200 | 228.426 | 213.007 |
| **92.0** | 196.448 | 222.544 | 222.070 | 196.334 | 210.901 | 225.227 | 192.613 | 201.292 | 225.683 | 210.445 |
| **92.5** | 194.113 | 220.498 | 220.294 | 194.215 | 209.112 | 222.941 | 190.248 | 198.933 | 223.127 | 208.206 |
| **93.0** | 192.097 | 218.643 | 218.529 | 192.163 | 207.540 | 221.074 | 188.400 | 196.688 | 220.798 | 206.111 |
| **93.5** | 189.672 | 217.035 | 217.143 | 190.266 | 205.973 | 219.357 | 186.701 | 194.654 | 218.523 | 204.545 |
| **94.0** | 187.559 | 215.270 | 215.900 | 188.526 | 204.431 | 217.863 | 184.889 | 192.691 | 216.723 | 203.146 |
| **94.5** | 185.453 | 213.830 | 214.400 | 186.485 | 203.068 | 216.224 | 183.334 | 191.124 | 214.706 | 201.688 |
| **95.0** | 183.160 | 212.461 | 212.989 | 184.714 | 201.448 | 214.652 | 181.786 | 189.612 | 213.007 | 200.601 |
| **95.5** | 181.029 | 211.321 | 211.441 | 182.584 | 200.121 | 213.205 | 180.471 | 188.322 | 211.507 | 199.377 |
| **96.0** | 178.695 | 209.730 | 209.862 | 180.711 | 198.789 | 211.627 | 179.271 | 186.953 | 210.097 | 198.117 |
| **96.5** | 176.510 | 208.086 | 208.440 | 178.719 | 197.499 | 210.157 | 178.052 | 185.579 | 208.740 | 196.856 |
| **97.0** | 174.685 | 206.357 | 206.994 | 176.912 | 196.256 | 208.632 | 177.020 | 184.228 | 207.348 | 195.416 |
| **97.5** | 172.621 | 204.425 | 205.433 | 175.279 | 195.044 | 207.336 | 175.910 | 182.542 | 206.183 | 194.161 |
| **98.0** | 170.550 | 202.408 | 203.632 | 173.329 | 193.885 | 206.105 | 174.853 | 181.077 | 205.019 | 192.823 |
| **98.5** | 168.167 | 200.349 | 202.132 | 171.738 | 192.625 | 204.863 | 173.785 | 179.529 | 203.584 | 191.479 |
| **99.0** | 166.121 | 198.471 | 200.445 | 169.896 | 191.275 | 203.831 | 172.471 | 177.902 | 202.246 | 190.098 |
| **99.5** | 164.146 | 196.520 | 198.699 | 167.861 | 189.888 | 202.750 | 171.078 | 176.384 | 200.692 | 188.628 |
| **100.0** | 161.697 | 194.474 | 197.132 | 165.977 | 188.388 | 201.766 | 169.362 | 174.565 | 199.359 | 187.361 |
| **100.5** | 159.392 | 192.943 | 195.350 | 163.834 | 186.965 | 200.499 | 167.693 | 172.999 | 197.787 | 185.741 |
| **101.0** | 156.926 | 191.161 | 193.801 | 161.865 | 185.297 | 198.909 | 165.923 | 171.486 | 195.806 | 184.162 |
| **101.5** | 154.789 | 189.420 | 192.163 | 159.825 | 183.478 | 197.324 | 163.942 | 169.788 | 194.107 | 182.584 |
| **102.0** | 152.928 | 187.865 | 190.056 | 157.442 | 181.852 | 195.188 | 162.189 | 168.311 | 192.175 | 180.729 |
| **102.5** | 150.942 | 186.389 | 187.901 | 155.203 | 180.057 | 193.219 | 160.479 | 166.625 | 190.404 | 178.953 |
| **103.0** | 149.165 | 185.039 | 185.741 | 152.754 | 178.346 | 191.275 | 159.128 | 165.106 | 188.826 | 176.822 |
| **103.5** | 147.137 | 183.220 | 183.436 | 150.732 | 176.720 | 189.288 | 157.844 | 163.486 | 186.983 | 174.835 |
| **104.0** | 145.426 | 181.563 | 181.179 | 148.745 | 174.901 | 187.649 | 156.488 | 161.583 | 185.141 | 172.831 |
| **104.5** | 143.529 | 179.829 | 178.983 | 146.680 | 173.371 | 185.837 | 155.125 | 159.819 | 183.196 | 170.688 |
| **105.0** | 141.411 | 177.932 | 177.308 | 144.670 | 171.570 | 184.294 | 153.511 | 157.922 | 181.359 | 169.068 |
| **105.5** | 139.346 | 176.324 | 175.436 | 142.497 | 169.824 | 182.584 | 151.950 | 156.091 | 179.691 | 167.435 |
| **106.0** | 136.843 | 174.517 | 173.605 | 140.631 | 168.149 | 180.765 | 150.366 | 154.339 | 178.016 | 165.766 |
| **106.5** | 134.971 | 172.789 | 171.930 | 138.794 | 166.253 | 179.121 | 148.547 | 152.394 | 176.318 | 164.092 |
| **107.0** | 133.026 | 171.288 | 169.902 | 136.831 | 164.620 | 177.254 | 146.981 | 150.648 | 174.343 | 162.273 |
| **107.5** | 130.835 | 169.578 | 168.101 | 135.157 | 162.585 | 175.580 | 145.300 | 148.859 | 172.489 | 160.545 |
| **108.0** | 129.131 | 168.065 | 166.175 | 133.326 | 160.683 | 173.803 | 143.313 | 147.227 | 170.688 | 158.534 |
| **108.5** | 127.312 | 166.139 | 164.440 | 131.718 | 158.942 | 171.720 | 141.459 | 145.558 | 168.557 | 156.512 |
| **109.0** | 125.668 | 164.200 | 162.597 | 130.091 | 156.908 | 169.800 | 139.268 | 143.511 | 166.535 | 154.459 |
| **109.5** | 123.939 | 162.627 | 160.563 | 128.279 | 154.999 | 167.273 | 137.203 | 141.633 | 164.428 | 151.938 |
| **110.0** | 122.079 | 160.851 | 158.618 | 126.706 | 152.976 | 165.118 | 135.109 | 139.304 | 162.555 | 149.723 |

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Results derived from content of manufacturers photometric file.

**CANDELA TABULATION - (Cont.)**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **110.5** | 120.710 | 159.146 | 156.434 | 124.876 | 151.074 | 163.276 | 132.768 | 137.233 | 160.641 | 147.473 |
| **111.0** | 119.252 | 157.358 | 154.531 | 123.267 | 149.033 | 161.211 | 130.823 | 135.181 | 158.534 | 145.570 |
| **111.5** | 117.769 | 155.731 | 152.508 | 121.574 | 146.752 | 159.428 | 128.645 | 132.990 | 156.668 | 143.655 |
| **112.0** | 116.323 | 154.099 | 150.204 | 119.678 | 144.688 | 157.640 | 126.892 | 131.015 | 154.591 | 141.387 |
| **112.5** | 114.744 | 152.016 | 148.133 | 118.111 | 142.485 | 155.593 | 124.918 | 128.837 | 152.862 | 139.268 |
| **113.0** | 113.130 | 150.204 | 145.966 | 116.317 | 140.540 | 153.709 | 123.267 | 126.844 | 151.086 | 137.023 |
| **113.5** | 111.557 | 148.031 | 143.884 | 114.714 | 138.626 | 151.668 | 121.665 | 125.014 | 149.051 | 134.833 |
| **114.0** | 110.039 | 145.810 | 141.927 | 113.016 | 136.537 | 149.795 | 119.894 | 122.931 | 147.245 | 132.624 |
| **114.5** | 108.538 | 143.673 | 139.514 | 111.329 | 134.719 | 147.773 | 118.255 | 121.112 | 145.048 | 130.193 |
| **115.0** | 106.828 | 141.063 | 137.323 | 109.679 | 132.570 | 145.894 | 116.659 | 119.246 | 143.013 | 128.093 |
| **115.5** | 105.309 | 138.620 | 134.599 | 108.058 | 130.469 | 143.866 | 114.894 | 117.679 | 140.973 | 125.770 |
| **116.0** | 103.629 | 136.075 | 132.288 | 106.600 | 128.345 | 141.675 | 113.274 | 116.113 | 138.752 | 123.675 |
| **116.5** | 101.924 | 133.476 | 129.791 | 105.249 | 126.046 | 139.712 | 111.425 | 114.408 | 136.753 | 121.520 |
| **117.0** | 100.406 | 130.823 | 127.150 | 103.623 | 123.783 | 137.498 | 109.667 | 112.704 | 134.431 | 119.006 |
| **117.5** | 98.833 | 128.105 | 124.473 | 102.182 | 121.118 | 135.277 | 107.884 | 110.681 | 132.264 | 116.677 |
| **118.0** | 97.189 | 125.680 | 121.851 | 100.376 | 118.958 | 133.134 | 105.988 | 108.832 | 130.067 | 114.192 |
| **118.5** | 95.370 | 122.709 | 118.898 | 98.809 | 116.761 | 130.589 | 104.217 | 107.008 | 127.678 | 111.971 |
| **119.0** | 93.864 | 120.302 | 116.257 | 97.249 | 114.444 | 128.303 | 102.248 | 104.955 | 125.566 | 109.889 |
| **119.5** | 92.159 | 117.733 | 113.316 | 95.514 | 112.260 | 125.764 | 100.460 | 103.101 | 123.153 | 107.716 |
| **120.0** | 90.509 | 114.438 | 110.771 | 93.900 | 109.745 | 123.573 | 98.731 | 101.042 | 120.722 | 105.838 |
| **120.5** | 88.888 | 111.641 | 108.274 | 92.513 | 107.530 | 121.352 | 96.901 | 99.265 | 117.961 | 103.611 |
| **121.0** | 87.190 | 108.634 | 105.507 | 91.139 | 105.285 | 118.784 | 95.232 | 97.531 | 114.816 | 101.468 |
| **121.5** | 85.545 | 105.970 | 103.047 | 89.854 | 102.765 | 116.359 | 93.402 | 95.592 | 112.103 | 99.187 |
| **122.0** | 83.859 | 103.347 | 100.232 | 88.540 | 100.598 | 113.514 | 91.643 | 94.008 | 109.199 | 96.475 |
| **122.5** | 82.070 | 100.484 | 97.687 | 87.340 | 98.215 | 110.861 | 89.860 | 92.267 | 106.738 | 93.948 |
| **123.0** | 80.287 | 97.873 | 95.052 | 85.929 | 95.898 | 108.004 | 87.772 | 90.551 | 104.385 | 91.031 |
| **123.5** | 78.613 | 94.920 | 91.883 | 84.285 | 93.210 | 105.009 | 85.845 | 88.852 | 101.834 | 88.396 |
| **124.0** | 76.854 | 91.295 | 88.702 | 82.736 | 90.251 | 102.116 | 83.618 | 87.034 | 99.439 | 85.965 |
| **124.5** | 75.168 | 87.910 | 84.753 | 80.876 | 87.808 | 99.349 | 81.584 | 85.281 | 96.174 | 83.210 |
| **125.0** | 73.091 | 84.693 | 80.467 | 79.303 | 85.449 | 96.324 | 79.471 | 83.030 | 92.543 | 80.696 |
| **125.5** | 71.189 | 80.882 | 76.062 | 77.731 | 82.772 | 93.546 | 77.004 | 80.894 | 88.840 | 78.031 |
| **126.0** | 69.214 | 77.292 | 71.519 | 76.062 | 79.819 | 89.668 | 74.958 | 78.955 | 84.921 | 75.492 |
| **126.5** | 66.165 | 72.833 | 67.677 | 74.604 | 75.030 | 85.617 | 72.929 | 76.908 | 81.476 | 72.095 |
| **127.0** | 63.254 | 69.418 | 63.560 | 73.055 | 70.720 | 81.170 | 71.315 | 75.114 | 77.479 | 66.945 |
| **127.5** | 60.373 | 65.037 | 59.377 | 71.363 | 66.489 | 76.992 | 69.604 | 73.373 | 73.409 | 62.750 |
| **128.0** | 57.768 | 60.793 | 55.055 | 69.064 | 62.978 | 73.031 | 66.441 | 71.675 | 69.082 | 59.083 |
| **128.5** | 54.779 | 56.622 | 50.632 | 66.219 | 59.779 | 68.080 | 62.576 | 68.596 | 64.076 | 56.118 |
| **129.0** | 51.046 | 52.133 | 47.109 | 63.218 | 55.674 | 63.632 | 57.870 | 63.782 | 59.893 | 52.042 |
| **129.5** | 48.015 | 48.381 | 43.610 | 59.383 | 52.030 | 59.725 | 54.245 | 59.515 | 55.199 | 47.631 |
| **130.0** | 45.020 | 43.916 | 39.300 | 56.328 | 48.765 | 55.530 | 51.490 | 55.884 | 50.488 | 44.546 |
| **130.5** | 41.623 | 39.967 | 35.837 | 53.549 | 45.458 | 51.712 | 48.129 | 53.261 | 45.464 | 41.425 |
| **131.0** | 37.608 | 36.576 | 33.136 | 50.224 | 42.073 | 47.145 | 44.252 | 50.098 | 41.581 | 38.004 |
| **131.5** | 34.739 | 33.371 | 30.436 | 47.445 | 38.022 | 43.436 | 40.357 | 46.209 | 38.670 | 34.553 |
| **132.0** | 32.824 | 30.346 | 27.057 | 43.682 | 34.823 | 40.279 | 37.890 | 42.998 | 34.697 | 32.326 |
| **132.5** | 27.915 | 26.630 | 23.780 | 40.267 | 32.914 | 36.756 | 35.813 | 39.841 | 30.928 | 29.265 |
| **133.0** | 24.926 | 23.041 | 21.481 | 37.770 | 28.395 | 33.545 | 33.311 | 37.194 | 27.477 | 25.394 |
| **133.5** | 22.609 | 22.015 | 19.116 | 34.625 | 25.190 | 29.979 | 27.981 | 33.797 | 23.257 | 22.285 |
| **134.0** | 19.836 | 19.716 | 16.655 | 30.826 | 22.765 | 26.943 | 25.022 | 29.691 | 22.453 | 20.136 |
| **134.5** | 16.103 | 17.345 | 14.441 | 26.786 | 21.055 | 24.800 | 23.353 | 26.336 | 19.554 | 17.628 |
| **135.0** | 14.357 | 15.011 | 12.190 | 22.447 | 18.678 | 22.189 | 20.815 | 22.903 | 16.583 | 15.203 |
| **135.5** | 13.126 | 13.270 | 10.503 | 22.525 | 15.671 | 19.416 | 17.327 | 21.409 | 13.846 | 13.150 |
| **136.0** | 10.773 | 11.584 | 8.775 | 19.104 | 13.666 | 16.817 | 14.387 | 18.234 | 12.016 | 11.350 |
| **136.5** | 9.873 | 9.687 | 7.244 | 16.949 | 11.674 | 14.711 | 11.596 | 14.963 | 10.491 | 9.129 |
| **137.0** | 8.127 | 8.013 | 6.278 | 15.359 | 9.717 | 12.292 | 10.635 | 12.406 | 8.853 | 7.202 |
| **137.5** | 6.446 | 6.464 | 4.754 | 13.168 | 8.175 | 10.539 | 9.249 | 10.623 | 7.106 | 5.726 |
| **138.0** | 5.150 | 4.820 | 3.313 | 11.752 | 6.428 | 8.871 | 6.962 | 9.351 | 5.780 | 4.417 |

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**CANDELA TABULATION - (Cont.)**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **138.5** | 3.565 | 3.673 | 2.551 | 10.101 | 5.012 | 6.830 | 6.164 | 7.796 | 4.615 | 3.301 |
| **139.0** | 2.875 | 2.671 | 1.789 | 8.121 | 3.493 | 5.702 | 4.363 | 6.512 | 3.733 | 2.461 |
| **139.5** | 1.434 | 1.819 | 1.488 | 6.872 | 2.533 | 4.183 | 3.475 | 5.198 | 2.827 | 1.554 |
| **140.0** | 1.194 | 1.645 | 1.332 | 5.180 | 1.458 | 3.007 | 2.623 | 4.159 | 2.443 | 1.260 |
| **140.5** | 1.098 | 1.530 | 1.242 | 3.943 | 1.248 | 2.347 | 1.446 | 2.941 | 2.185 | 1.110 |
| **141.0** | 1.008 | 1.386 | 1.110 | 1.879 | 1.188 | 2.065 | 1.314 | 2.095 | 2.023 | 1.032 |
| **141.5** | 0.900 | 1.308 | 1.032 | 1.699 | 1.128 | 1.915 | 1.218 | 1.885 | 1.813 | 0.918 |
| **142.0** | 0.834 | 1.200 | 0.942 | 1.578 | 1.074 | 1.777 | 1.086 | 1.681 | 1.645 | 0.822 |
| **142.5** | 0.780 | 1.116 | 0.840 | 1.464 | 0.990 | 1.657 | 1.032 | 1.500 | 1.566 | 0.780 |
| **143.0** | 0.708 | 1.062 | 0.798 | 1.326 | 0.918 | 1.578 | 0.936 | 1.356 | 1.428 | 0.726 |
| **143.5** | 0.636 | 0.990 | 0.714 | 1.218 | 0.798 | 1.470 | 0.900 | 1.254 | 1.254 | 0.690 |
| **144.0** | 0.630 | 0.942 | 0.672 | 1.104 | 0.702 | 1.374 | 0.804 | 1.182 | 1.152 | 0.648 |
| **144.5** | 0.540 | 0.876 | 0.564 | 1.032 | 0.678 | 1.320 | 0.750 | 1.098 | 1.080 | 0.606 |
| **145.0** | 0.534 | 0.798 | 0.516 | 0.948 | 0.624 | 1.224 | 0.702 | 1.050 | 1.026 | 0.594 |
| **145.5** | 0.486 | 0.744 | 0.432 | 0.930 | 0.558 | 1.062 | 0.642 | 0.990 | 0.906 | 0.552 |
| **146.0** | 0.486 | 0.720 | 0.420 | 0.882 | 0.516 | 0.978 | 0.600 | 0.942 | 0.876 | 0.528 |
| **146.5** | 0.390 | 0.684 | 0.438 | 0.834 | 0.522 | 0.936 | 0.534 | 0.936 | 0.852 | 0.480 |
| **147.0** | 0.348 | 0.612 | 0.342 | 0.774 | 0.468 | 0.852 | 0.510 | 0.834 | 0.810 | 0.456 |
| **147.5** | 0.282 | 0.612 | 0.348 | 0.696 | 0.450 | 0.780 | 0.498 | 0.792 | 0.774 | 0.414 |
| **148.0** | 0.252 | 0.570 | 0.354 | 0.654 | 0.390 | 0.738 | 0.456 | 0.786 | 0.696 | 0.396 |
| **148.5** | 0.252 | 0.540 | 0.276 | 0.594 | 0.378 | 0.714 | 0.444 | 0.750 | 0.702 | 0.348 |
| **149.0** | 0.240 | 0.522 | 0.270 | 0.558 | 0.324 | 0.672 | 0.378 | 0.678 | 0.660 | 0.348 |
| **149.5** | 0.222 | 0.468 | 0.246 | 0.504 | 0.318 | 0.624 | 0.354 | 0.672 | 0.648 | 0.312 |
| **150.0** | 0.192 | 0.432 | 0.234 | 0.510 | 0.288 | 0.582 | 0.306 | 0.588 | 0.588 | 0.276 |
| **150.5** | 0.204 | 0.438 | 0.240 | 0.468 | 0.294 | 0.576 | 0.276 | 0.552 | 0.540 | 0.258 |
| **151.0** | 0.168 | 0.414 | 0.210 | 0.450 | 0.252 | 0.516 | 0.270 | 0.498 | 0.528 | 0.240 |
| **151.5** | 0.162 | 0.396 | 0.198 | 0.414 | 0.252 | 0.504 | 0.240 | 0.462 | 0.504 | 0.228 |
| **152.0** | 0.162 | 0.348 | 0.174 | 0.396 | 0.198 | 0.474 | 0.216 | 0.420 | 0.450 | 0.180 |
| **152.5** | 0.162 | 0.336 | 0.168 | 0.384 | 0.180 | 0.450 | 0.210 | 0.426 | 0.420 | 0.174 |
| **153.0** | 0.138 | 0.300 | 0.150 | 0.336 | 0.174 | 0.432 | 0.180 | 0.402 | 0.408 | 0.168 |
| **153.5** | 0.156 | 0.306 | 0.168 | 0.354 | 0.156 | 0.396 | 0.162 | 0.354 | 0.396 | 0.186 |
| **154.0** | 0.144 | 0.282 | 0.156 | 0.324 | 0.174 | 0.342 | 0.186 | 0.348 | 0.348 | 0.138 |
| **154.5** | 0.144 | 0.300 | 0.126 | 0.318 | 0.150 | 0.366 | 0.162 | 0.342 | 0.336 | 0.156 |
| **155.0** | 0.114 | 0.252 | 0.144 | 0.276 | 0.144 | 0.336 | 0.156 | 0.300 | 0.288 | 0.138 |
| **155.5** | 0.126 | 0.282 | 0.132 | 0.312 | 0.144 | 0.312 | 0.096 | 0.324 | 0.282 | 0.138 |
| **156.0** | 0.138 | 0.240 | 0.096 | 0.252 | 0.114 | 0.276 | 0.156 | 0.294 | 0.276 | 0.126 |
| **156.5** | 0.144 | 0.240 | 0.114 | 0.270 | 0.120 | 0.264 | 0.102 | 0.306 | 0.270 | 0.120 |
| **157.0** | 0.144 | 0.234 | 0.102 | 0.282 | 0.132 | 0.276 | 0.120 | 0.270 | 0.252 | 0.126 |
| **157.5** | 0.126 | 0.228 | 0.120 | 0.270 | 0.114 | 0.282 | 0.144 | 0.270 | 0.252 | 0.126 |
| **158.0** | 0.114 | 0.222 | 0.120 | 0.252 | 0.114 | 0.270 | 0.126 | 0.252 | 0.246 | 0.126 |
| **158.5** | 0.120 | 0.192 | 0.096 | 0.258 | 0.132 | 0.252 | 0.084 | 0.234 | 0.240 | 0.114 |
| **159.0** | 0.132 | 0.210 | 0.114 | 0.222 | 0.132 | 0.258 | 0.096 | 0.228 | 0.222 | 0.126 |
| **159.5** | 0.132 | 0.216 | 0.114 | 0.240 | 0.144 | 0.276 | 0.132 | 0.246 | 0.234 | 0.114 |
| **160.0** | 0.132 | 0.174 | 0.120 | 0.240 | 0.078 | 0.234 | 0.126 | 0.222 | 0.216 | 0.102 |
| **160.5** | 0.126 | 0.216 | 0.102 | 0.204 | 0.126 | 0.234 | 0.120 | 0.228 | 0.222 | 0.126 |
| **161.0** | 0.156 | 0.216 | 0.102 | 0.234 | 0.126 | 0.234 | 0.114 | 0.222 | 0.222 | 0.114 |
| **161.5** | 0.132 | 0.210 | 0.102 | 0.216 | 0.096 | 0.216 | 0.114 | 0.240 | 0.216 | 0.090 |
| **162.0** | 0.126 | 0.204 | 0.144 | 0.234 | 0.114 | 0.204 | 0.114 | 0.210 | 0.216 | 0.120 |
| **162.5** | 0.102 | 0.216 | 0.072 | 0.192 | 0.114 | 0.222 | 0.114 | 0.204 | 0.222 | 0.102 |
| **163.0** | 0.114 | 0.180 | 0.114 | 0.204 | 0.102 | 0.210 | 0.120 | 0.216 | 0.216 | 0.102 |
| **163.5** | 0.120 | 0.186 | 0.102 | 0.204 | 0.078 | 0.204 | 0.096 | 0.204 | 0.174 | 0.078 |
| **164.0** | 0.120 | 0.210 | 0.114 | 0.186 | 0.120 | 0.168 | 0.120 | 0.186 | 0.198 | 0.084 |
| **164.5** | 0.114 | 0.198 | 0.078 | 0.192 | 0.114 | 0.192 | 0.096 | 0.198 | 0.186 | 0.102 |
| **165.0** | 0.120 | 0.204 | 0.132 | 0.204 | 0.114 | 0.180 | 0.102 | 0.192 | 0.216 | 0.102 |
| **165.5** | 0.138 | 0.180 | 0.096 | 0.210 | 0.102 | 0.210 | 0.084 | 0.192 | 0.210 | 0.090 |
| **166.0** | 0.114 | 0.174 | 0.114 | 0.180 | 0.090 | 0.198 | 0.096 | 0.198 | 0.180 | 0.090 |

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**CANDELA TABULATION - (Cont.)**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **166.5** | 0.138 | 0.180 | 0.084 | 0.168 | 0.072 | 0.210 | 0.090 | 0.192 | 0.198 | 0.126 |
| **167.0** | 0.084 | 0.174 | 0.090 | 0.168 | 0.090 | 0.186 | 0.126 | 0.198 | 0.186 | 0.090 |
| **167.5** | 0.138 | 0.168 | 0.102 | 0.198 | 0.120 | 0.186 | 0.102 | 0.192 | 0.180 | 0.084 |
| **168.0** | 0.090 | 0.150 | 0.060 | 0.186 | 0.096 | 0.174 | 0.084 | 0.198 | 0.204 | 0.096 |
| **168.5** | 0.096 | 0.156 | 0.096 | 0.174 | 0.060 | 0.174 | 0.084 | 0.174 | 0.174 | 0.078 |
| **169.0** | 0.102 | 0.156 | 0.114 | 0.174 | 0.114 | 0.168 | 0.084 | 0.174 | 0.192 | 0.090 |
| **169.5** | 0.120 | 0.156 | 0.102 | 0.162 | 0.084 | 0.180 | 0.102 | 0.144 | 0.168 | 0.084 |
| **170.0** | 0.114 | 0.150 | 0.078 | 0.150 | 0.096 | 0.174 | 0.114 | 0.144 | 0.144 | 0.102 |
| **170.5** | 0.090 | 0.156 | 0.084 | 0.138 | 0.072 | 0.168 | 0.090 | 0.150 | 0.126 | 0.096 |
| **171.0** | 0.096 | 0.156 | 0.090 | 0.138 | 0.054 | 0.156 | 0.072 | 0.120 | 0.156 | 0.072 |
| **171.5** | 0.096 | 0.120 | 0.090 | 0.162 | 0.096 | 0.150 | 0.120 | 0.144 | 0.120 | 0.114 |
| **172.0** | 0.102 | 0.132 | 0.084 | 0.150 | 0.066 | 0.162 | 0.072 | 0.150 | 0.138 | 0.084 |
| **172.5** | 0.114 | 0.132 | 0.084 | 0.156 | 0.090 | 0.150 | 0.096 | 0.132 | 0.162 | 0.072 |
| **173.0** | 0.126 | 0.132 | 0.078 | 0.084 | 0.084 | 0.138 | 0.066 | 0.096 | 0.114 | 0.072 |
| **173.5** | 0.096 | 0.126 | 0.090 | 0.132 | 0.096 | 0.144 | 0.102 | 0.126 | 0.168 | 0.090 |
| **174.0** | 0.090 | 0.120 | 0.060 | 0.132 | 0.060 | 0.126 | 0.066 | 0.120 | 0.114 | 0.078 |
| **174.5** | 0.084 | 0.102 | 0.072 | 0.120 | 0.090 | 0.126 | 0.060 | 0.132 | 0.126 | 0.114 |
| **175.0** | 0.114 | 0.096 | 0.078 | 0.138 | 0.060 | 0.126 | 0.078 | 0.114 | 0.114 | 0.084 |
| **175.5** | 0.078 | 0.132 | 0.072 | 0.120 | 0.078 | 0.120 | 0.090 | 0.144 | 0.114 | 0.072 |
| **176.0** | 0.096 | 0.102 | 0.078 | 0.114 | 0.084 | 0.132 | 0.072 | 0.126 | 0.090 | 0.078 |
| **176.5** | 0.084 | 0.120 | 0.060 | 0.114 | 0.084 | 0.096 | 0.078 | 0.132 | 0.114 | 0.054 |
| **177.0** | 0.072 | 0.102 | 0.072 | 0.090 | 0.078 | 0.126 | 0.066 | 0.096 | 0.090 | 0.054 |
| **177.5** | 0.072 | 0.090 | 0.054 | 0.126 | 0.066 | 0.102 | 0.072 | 0.102 | 0.096 | 0.060 |
| **178.0** | 0.090 | 0.096 | 0.060 | 0.114 | 0.054 | 0.102 | 0.078 | 0.126 | 0.102 | 0.078 |
| **178.5** | 0.102 | 0.090 | 0.066 | 0.090 | 0.084 | 0.084 | 0.054 | 0.126 | 0.084 | 0.060 |
| **179.0** | 0.114 | 0.114 | 0.084 | 0.096 | 0.072 | 0.102 | 0.072 | 0.090 | 0.114 | 0.066 |
| **179.5** | 0.090 | 0.090 | 0.060 | 0.090 | 0.078 | 0.090 | 0.078 | 0.114 | 0.084 | 0.060 |
| **180.0** | 0.096 | 0.072 | 0.078 | 0.090 | 0.060 | 0.096 | 0.084 | 0.114 | 0.090 | 0.054 |

| **Vert. Angles** | **Horizontal Angles** | | | | | | |
|---|---|---|---|---|---|---|---|
| | **225.0** | **247.5** | **270.0** | **292.5** | **315.0** | **337.5** | **360.0** |
| **0.0** | 239.302 | 239.302 | 239.302 | 239.302 | 239.302 | 239.302 | 239.302 |
| **0.5** | 237.051 | 239.230 | 237.789 | 237.735 | 240.154 | 238.509 | 240.538 |
| **1.0** | 236.937 | 241.709 | 236.199 | 238.696 | 241.654 | 236.739 | 235.298 |
| **1.5** | 240.856 | 237.531 | 240.538 | 242.753 | 241.871 | 238.065 | 233.150 |
| **2.0** | 237.273 | 232.694 | 243.371 | 247.002 | 242.729 | 237.837 | 232.111 |
| **2.5** | 231.691 | 236.115 | 243.689 | 249.775 | 246.228 | 239.482 | 233.906 |
| **3.0** | 234.578 | 241.889 | 240.526 | 251.780 | 250.669 | 241.006 | 237.861 |
| **3.5** | 237.933 | 243.581 | 239.944 | 256.053 | 254.631 | 240.238 | 240.904 |
| **4.0** | 234.584 | 239.170 | 241.378 | 258.556 | 255.657 | 241.751 | 240.904 |
| **4.5** | 229.981 | 237.585 | 241.709 | 256.845 | 255.909 | 241.414 | 240.802 |
| **5.0** | 230.551 | 238.281 | 246.276 | 252.632 | 252.476 | 238.966 | 239.758 |
| **5.5** | 235.545 | 240.904 | 248.467 | 248.017 | 245.646 | 237.495 | 239.308 |
| **6.0** | 238.852 | 242.597 | 246.276 | 242.465 | 239.542 | 234.446 | 238.287 |
| **6.5** | 235.383 | 237.753 | 243.545 | 238.828 | 239.008 | 232.442 | 235.845 |
| **7.0** | 232.298 | 232.964 | 238.305 | 235.785 | 238.209 | 230.425 | 236.331 |
| **7.5** | 231.157 | 231.115 | 236.841 | 232.598 | 235.749 | 227.280 | 237.009 |
| **8.0** | 229.753 | 230.467 | 239.398 | 232.322 | 234.026 | 225.197 | 235.719 |
| **8.5** | 232.898 | 230.467 | 242.375 | 232.081 | 235.100 | 223.109 | 236.187 |
| **9.0** | 237.285 | 231.055 | 244.631 | 230.653 | 236.775 | 222.100 | 234.866 |
| **9.5** | 235.334 | 230.173 | 242.999 | 229.687 | 235.226 | 218.037 | 228.912 |
| **10.0** | 229.477 | 225.593 | 237.693 | 227.568 | 229.645 | 213.296 | 221.872 |
| **10.5** | 224.945 | 220.282 | 229.333 | 227.346 | 223.955 | 211.267 | 219.141 |
| **11.0** | 222.448 | 220.264 | 222.767 | 228.786 | 219.856 | 208.704 | 219.459 |
| **11.5** | 223.847 | 221.470 | 220.384 | 228.762 | 216.855 | 204.599 | 215.438 |

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**CANDELA TABULATION - (Cont.)**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **12.0** | 227.664 | 221.782 | 221.320 | 226.560 | 215.114 | 202.198 | 213.320 |
| **12.5** | 231.007 | 221.500 | 222.785 | 221.668 | 212.959 | 206.219 | 212.797 |
| **13.0** | 230.641 | 222.340 | 224.099 | 216.230 | 211.567 | 213.145 | 210.871 |
| **13.5** | 227.046 | 224.399 | 224.285 | 213.500 | 212.827 | 215.180 | 207.558 |
| **14.0** | 220.132 | 225.797 | 223.787 | 211.423 | 214.250 | 210.445 | 205.823 |
| **14.5** | 215.054 | 225.155 | 221.920 | 208.824 | 213.626 | 204.101 | 202.570 |
| **15.0** | 213.644 | 222.869 | 219.628 | 206.777 | 211.555 | 201.748 | 199.545 |
| **15.5** | 212.911 | 220.114 | 215.516 | 203.963 | 209.454 | 202.498 | 198.975 |
| **16.0** | 211.387 | 217.029 | 212.863 | 200.962 | 209.028 | 203.849 | 197.511 |
| **16.5** | 210.385 | 215.378 | 210.217 | 197.661 | 209.946 | 202.792 | 194.402 |
| **17.0** | 211.147 | 215.336 | 207.426 | 196.394 | 208.854 | 199.011 | 189.828 |
| **17.5** | 212.905 | 213.740 | 204.395 | 193.747 | 206.393 | 195.896 | 186.317 |
| **18.0** | 211.357 | 211.951 | 201.544 | 190.602 | 203.272 | 193.237 | 185.087 |
| **18.5** | 204.725 | 210.427 | 198.705 | 187.487 | 200.932 | 196.964 | 184.907 |
| **19.0** | 195.986 | 208.002 | 196.742 | 185.915 | 199.599 | 204.173 | 186.545 |
| **19.5** | 190.428 | 203.440 | 195.038 | 186.323 | 198.249 | 202.354 | 191.533 |
| **20.0** | 186.905 | 196.778 | 193.561 | 189.228 | 196.946 | 194.125 | 192.187 |
| **20.5** | 184.937 | 189.402 | 191.707 | 188.412 | 188.262 | 190.566 | 183.754 |
| **21.0** | 184.859 | 185.903 | 189.912 | 180.663 | 187.181 | 187.145 | 177.752 |
| **21.5** | 187.799 | 187.565 | 189.816 | 178.226 | 187.733 | 185.813 | 180.813 |
| **22.0** | 191.647 | 189.324 | 187.829 | 181.071 | 186.683 | 185.801 | 187.511 |
| **22.5** | 191.989 | 190.572 | 186.599 | 185.759 | 188.640 | 187.283 | 188.922 |
| **23.0** | 186.875 | 192.733 | 184.480 | 183.040 | 191.503 | 190.218 | 183.148 |
| **23.5** | 182.020 | 198.087 | 186.215 | 177.770 | 189.012 | 192.097 | 178.394 |
| **24.0** | 183.604 | 199.731 | 186.293 | 177.818 | 185.831 | 192.559 | 180.243 |
| **24.5** | 186.533 | 198.723 | 185.591 | 182.650 | 188.388 | 193.255 | 184.054 |
| **25.0** | 185.525 | 198.225 | 184.246 | 190.122 | 193.141 | 192.751 | 187.079 |
| **25.5** | 180.957 | 199.161 | 182.974 | 199.203 | 196.016 | 193.783 | 188.166 |
| **26.0** | 174.901 | 202.324 | 185.867 | 204.251 | 195.548 | 196.718 | 188.934 |
| **26.5** | 173.953 | 204.845 | 189.792 | 212.257 | 195.896 | 199.821 | 194.780 |
| **27.0** | 177.920 | 203.837 | 193.621 | 225.960 | 197.919 | 203.320 | 206.321 |
| **27.5** | 184.624 | 204.833 | 200.079 | 246.384 | 204.251 | 210.445 | 224.261 |
| **28.0** | 190.494 | 208.152 | 210.739 | 267.931 | 215.306 | 218.631 | 245.370 |
| **28.5** | 196.748 | 213.440 | 219.495 | 273.537 | 226.002 | 229.219 | 262.859 |
| **29.0** | 203.963 | 220.522 | 229.747 | 266.064 | 234.110 | 240.754 | 266.910 |
| **29.5** | 212.773 | 229.014 | 244.649 | 250.915 | 242.675 | 254.337 | 262.769 |
| **30.0** | 224.981 | 237.237 | 256.803 | 236.871 | 247.632 | 259.102 | 246.612 |
| **30.5** | 234.830 | 247.446 | 263.117 | 224.789 | 252.728 | 265.068 | 233.774 |
| **31.0** | 244.505 | 255.585 | 259.402 | 216.152 | 263.687 | 264.870 | 234.566 |
| **31.5** | 253.976 | 258.652 | 252.254 | 225.173 | 277.066 | 265.266 | 242.039 |
| **32.0** | 259.444 | 264.672 | 246.072 | 241.222 | 285.390 | 265.590 | 252.110 |
| **32.5** | 254.264 | 268.801 | 241.492 | 252.224 | 285.456 | 267.031 | 271.226 |
| **33.0** | 240.226 | 274.179 | 241.384 | 288.595 | 284.058 | 272.210 | 281.693 |
| **33.5** | 225.485 | 278.176 | 249.469 | 296.128 | 279.923 | 284.010 | 271.592 |
| **34.0** | 219.652 | 286.429 | 261.335 | 283.350 | 275.319 | 293.445 | 254.264 |
| **34.5** | 224.903 | 293.769 | 272.150 | 269.593 | 272.636 | 300.515 | 243.419 |
| **35.0** | 239.308 | 301.175 | 277.888 | 264.018 | 278.764 | 306.811 | 243.887 |
| **35.5** | 260.164 | 309.170 | 283.560 | 264.612 | 288.799 | 309.494 | 248.203 |
| **36.0** | 273.435 | 312.177 | 291.656 | 268.081 | 300.695 | 309.428 | 256.161 |
| **36.5** | 288.877 | 314.602 | 293.679 | 275.031 | 305.833 | 304.710 | 264.882 |
| **37.0** | 300.977 | 312.903 | 289.814 | 279.617 | 310.142 | 303.858 | 273.140 |
| **37.5** | 301.589 | 311.325 | 283.560 | 280.859 | 309.032 | 312.051 | 282.077 |
| **38.0** | 290.906 | 315.394 | 281.393 | 282.431 | 306.865 | 324.631 | 291.314 |
| **38.5** | 276.423 | 317.158 | 284.190 | 288.463 | 306.379 | 331.185 | 295.558 |
| **39.0** | 262.517 | 315.328 | 292.299 | 294.297 | 306.781 | 327.386 | 292.166 |
| **39.5** | 253.544 | 317.422 | 298.258 | 296.650 | 307.147 | 322.800 | 285.012 |

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**CANDELA TABULATION - (Cont.)**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **40.0** | 251.017 | 321.552 | 298.775 | 294.423 | 309.458 | 321.288 | 280.253 |
| **40.5** | 257.259 | 319.979 | 298.294 | 289.640 | 311.319 | 317.380 | 278.902 |
| **41.0** | 267.511 | 316.900 | 306.157 | 289.706 | 311.967 | 313.875 | 282.509 |
| **41.5** | 279.142 | 315.982 | 315.586 | 292.395 | 314.734 | 309.704 | 287.575 |
| **42.0** | 287.137 | 314.277 | 316.660 | 298.426 | 318.071 | 305.737 | 291.302 |
| **42.5** | 293.871 | 313.101 | 313.215 | 307.525 | 321.684 | 305.749 | 292.251 |
| **43.0** | 299.111 | 311.132 | 311.913 | 316.306 | 319.979 | 307.711 | 292.533 |
| **43.5** | 304.140 | 311.853 | 314.488 | 320.111 | 316.306 | 309.914 | 294.195 |
| **44.0** | 308.420 | 315.454 | 317.086 | 321.810 | 314.734 | 311.847 | 298.066 |
| **44.5** | 308.792 | 319.583 | 318.371 | 322.338 | 315.256 | 314.295 | 303.702 |
| **45.0** | 306.403 | 323.845 | 321.486 | 323.712 | 316.306 | 316.366 | 308.186 |
| **45.5** | 305.203 | 328.958 | 322.926 | 323.514 | 319.649 | 317.434 | 311.174 |
| **46.0** | 306.607 | 331.317 | 325.615 | 320.958 | 324.433 | 317.446 | 313.605 |
| **46.5** | 309.914 | 331.713 | 326.335 | 317.032 | 326.857 | 315.676 | 315.118 |
| **47.0** | 311.703 | 330.987 | 323.977 | 315.130 | 326.990 | 312.741 | 316.120 |
| **47.5** | 309.698 | 329.216 | 320.766 | 313.821 | 327.056 | 310.664 | 314.878 |
| **48.0** | 305.233 | 324.565 | 318.209 | 312.177 | 326.401 | 309.992 | 311.054 |
| **48.5** | 300.857 | 321.942 | 316.180 | 311.655 | 322.464 | 308.864 | 306.883 |
| **49.0** | 299.741 | 315.730 | 314.998 | 313.029 | 317.819 | 306.817 | 304.885 |
| **49.5** | 301.691 | 312.615 | 314.217 | 315.592 | 314.734 | 305.203 | 303.654 |
| **50.0** | 303.618 | 311.048 | 312.969 | 319.001 | 311.655 | 302.778 | 302.772 |
| **50.5** | 304.488 | 309.470 | 312.117 | 320.435 | 308.642 | 301.031 | 302.058 |
| **51.0** | 306.013 | 307.621 | 311.523 | 319.457 | 307.009 | 299.615 | 302.850 |
| **51.5** | 308.996 | 305.005 | 311.199 | 317.951 | 306.217 | 299.309 | 304.794 |
| **52.0** | 313.053 | 303.654 | 310.544 | 317.819 | 305.629 | 299.237 | 307.231 |
| **52.5** | 316.762 | 304.308 | 310.868 | 319.457 | 305.959 | 298.384 | 307.873 |
| **53.0** | 317.140 | 305.635 | 311.853 | 320.958 | 307.009 | 297.580 | 306.973 |
| **53.5** | 315.508 | 306.913 | 311.919 | 321.426 | 307.465 | 297.448 | 305.443 |
| **54.0** | 314.289 | 307.429 | 311.793 | 316.498 | 307.861 | 297.652 | 304.302 |
| **54.5** | 313.137 | 308.198 | 312.447 | 312.837 | 307.921 | 297.646 | 303.624 |
| **55.0** | 311.937 | 309.278 | 312.837 | 308.108 | 308.444 | 297.004 | 303.072 |
| **55.5** | 310.652 | 309.350 | 312.249 | 303.924 | 308.714 | 296.848 | 301.499 |
| **56.0** | 309.152 | 308.990 | 310.280 | 299.885 | 308.642 | 296.872 | 298.901 |
| **56.5** | 307.867 | 307.345 | 307.591 | 297.472 | 308.246 | 296.518 | 296.758 |
| **57.0** | 305.689 | 305.623 | 303.468 | 295.786 | 306.937 | 295.672 | 294.963 |
| **57.5** | 302.106 | 303.798 | 299.537 | 294.141 | 304.314 | 294.675 | 293.937 |
| **58.0** | 298.270 | 300.917 | 295.804 | 293.385 | 301.109 | 293.571 | 293.133 |
| **58.5** | 294.687 | 298.474 | 292.917 | 293.733 | 297.700 | 291.896 | 292.581 |
| **59.0** | 292.106 | 296.950 | 291.800 | 294.639 | 294.879 | 289.682 | 292.010 |
| **59.5** | 290.072 | 295.696 | 291.404 | 294.849 | 292.719 | 287.275 | 291.266 |
| **60.0** | 288.307 | 293.673 | 291.080 | 294.423 | 290.822 | 284.514 | 291.098 |
| **60.5** | 287.851 | 291.314 | 291.020 | 293.931 | 289.508 | 282.221 | 291.530 |
| **61.0** | 287.995 | 289.039 | 290.558 | 293.487 | 288.595 | 280.031 | 291.938 |
| **61.5** | 288.193 | 286.903 | 290.294 | 293.091 | 287.941 | 277.990 | 291.800 |
| **62.0** | 288.703 | 286.063 | 289.838 | 292.965 | 287.473 | 277.186 | 291.146 |
| **62.5** | 289.436 | 285.360 | 289.316 | 292.509 | 287.473 | 277.120 | 290.198 |
| **63.0** | 289.352 | 285.576 | 288.853 | 291.788 | 288.001 | 278.032 | 288.835 |
| **63.5** | 288.415 | 286.357 | 289.051 | 290.624 | 288.265 | 279.322 | 287.179 |
| **64.0** | 287.599 | 288.295 | 289.118 | 288.379 | 288.595 | 280.901 | 285.630 |
| **64.5** | 286.549 | 290.270 | 288.523 | 286.009 | 289.051 | 282.497 | 283.950 |
| **65.0** | 284.778 | 292.227 | 287.545 | 283.602 | 289.250 | 283.842 | 282.419 |
| **65.5** | 283.050 | 293.631 | 285.774 | 280.721 | 289.118 | 284.298 | 280.643 |
| **66.0** | 281.147 | 294.375 | 284.010 | 278.392 | 288.595 | 284.100 | 278.728 |
| **66.5** | 279.094 | 294.213 | 282.041 | 276.327 | 287.281 | 283.074 | 277.138 |
| **67.0** | 276.832 | 293.385 | 279.220 | 275.025 | 285.246 | 281.213 | 275.265 |
| **67.5** | 274.395 | 292.136 | 276.664 | 273.939 | 282.762 | 278.452 | 273.369 |

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**CANDELA TABULATION - (Cont.)**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **68.0** | 272.618 | 289.928 | 274.503 | 273.236 | 280.271 | 275.433 | 271.760 |
| **68.5** | 270.980 | 287.551 | 272.672 | 272.894 | 277.456 | 272.276 | 270.374 |
| **69.0** | 270.170 | 284.658 | 270.902 | 272.390 | 274.899 | 268.681 | 269.539 |
| **69.5** | 269.623 | 281.759 | 269.065 | 271.550 | 272.276 | 265.572 | 268.837 |
| **70.0** | 268.681 | 278.764 | 267.625 | 269.839 | 269.395 | 263.159 | 268.099 |
| **70.5** | 267.307 | 276.436 | 266.898 | 267.847 | 267.553 | 262.289 | 267.103 |
| **71.0** | 265.440 | 274.629 | 266.574 | 265.770 | 266.706 | 262.679 | 265.674 |
| **71.5** | 263.285 | 273.639 | 266.838 | 263.147 | 267.367 | 263.946 | 264.114 |
| **72.0** | 261.491 | 274.011 | 267.097 | 260.771 | 268.603 | 264.906 | 262.277 |
| **72.5** | 259.828 | 275.559 | 267.553 | 258.532 | 269.983 | 266.064 | 260.392 |
| **73.0** | 258.568 | 276.616 | 267.691 | 256.671 | 270.902 | 267.337 | 258.580 |
| **73.5** | 257.427 | 276.904 | 268.081 | 254.991 | 272.276 | 268.201 | 256.623 |
| **74.0** | 255.651 | 277.738 | 267.949 | 253.400 | 273.387 | 268.477 | 255.021 |
| **74.5** | 253.814 | 278.578 | 266.376 | 252.146 | 273.651 | 267.787 | 253.292 |
| **75.0** | 252.182 | 278.848 | 264.804 | 250.999 | 273.062 | 266.514 | 251.930 |
| **75.5** | 251.089 | 278.380 | 263.627 | 250.303 | 272.210 | 264.768 | 250.735 |
| **76.0** | 250.117 | 277.498 | 261.575 | 249.655 | 271.028 | 262.589 | 249.433 |
| **76.5** | 249.055 | 275.739 | 260.140 | 248.653 | 269.257 | 259.138 | 248.233 |
| **77.0** | 247.662 | 273.375 | 258.214 | 247.464 | 266.574 | 256.281 | 246.756 |
| **77.5** | 246.510 | 270.380 | 257.031 | 245.802 | 262.901 | 254.180 | 245.214 |
| **78.0** | 245.904 | 267.451 | 255.825 | 243.407 | 259.540 | 252.938 | 243.695 |
| **78.5** | 245.016 | 264.900 | 254.799 | 241.270 | 258.166 | 252.116 | 242.003 |
| **79.0** | 243.389 | 262.919 | 254.385 | 239.254 | 256.833 | 251.300 | 240.574 |
| **79.5** | 241.318 | 261.101 | 254.162 | 237.765 | 255.537 | 250.729 | 239.152 |
| **80.0** | 238.696 | 259.198 | 252.878 | 236.529 | 254.667 | 250.519 | 237.759 |
| **80.5** | 236.415 | 257.674 | 251.798 | 235.088 | 254.463 | 250.459 | 236.601 |
| **81.0** | 234.518 | 257.355 | 252.254 | 233.786 | 254.709 | 250.171 | 235.280 |
| **81.5** | 232.778 | 257.740 | 252.134 | 232.195 | 254.565 | 249.487 | 233.822 |
| **82.0** | 231.535 | 257.752 | 250.447 | 230.683 | 253.682 | 248.365 | 232.256 |
| **82.5** | 230.317 | 257.151 | 249.313 | 229.291 | 253.112 | 246.498 | 230.737 |
| **83.0** | 229.177 | 256.113 | 248.179 | 227.580 | 252.350 | 244.523 | 229.147 |
| **83.5** | 227.976 | 254.180 | 246.282 | 225.701 | 250.267 | 242.075 | 227.118 |
| **84.0** | 226.512 | 251.426 | 243.515 | 223.397 | 247.494 | 239.464 | 225.179 |
| **84.5** | 224.975 | 248.899 | 240.508 | 221.440 | 244.427 | 237.657 | 223.139 |
| **85.0** | 222.863 | 246.636 | 238.365 | 219.658 | 241.624 | 235.959 | 220.936 |
| **85.5** | 220.684 | 244.848 | 236.895 | 218.187 | 239.422 | 234.452 | 219.129 |
| **86.0** | 218.475 | 243.173 | 235.785 | 216.621 | 237.201 | 233.114 | 217.425 |
| **86.5** | 215.948 | 241.570 | 234.632 | 215.096 | 235.779 | 232.490 | 216.206 |
| **87.0** | 213.872 | 240.568 | 233.366 | 213.716 | 234.758 | 232.232 | 214.892 |
| **87.5** | 211.963 | 239.908 | 232.640 | 212.515 | 234.164 | 231.703 | 213.872 |
| **88.0** | 210.511 | 239.380 | 232.159 | 211.711 | 234.080 | 231.487 | 212.893 |
| **88.5** | 209.298 | 239.128 | 231.847 | 211.057 | 234.182 | 231.361 | 211.579 |
| **89.0** | 208.392 | 239.170 | 232.183 | 209.838 | 234.398 | 230.821 | 210.193 |
| **89.5** | 207.828 | 238.696 | 232.694 | 208.062 | 234.266 | 229.495 | 208.158 |
| **90.0** | 207.186 | 236.991 | 232.141 | 205.559 | 233.300 | 227.394 | 205.913 |
| **90.5** | 206.051 | 234.542 | 230.443 | 202.492 | 231.493 | 225.209 | 203.548 |
| **91.0** | 204.089 | 231.739 | 227.424 | 199.731 | 228.696 | 222.965 | 200.938 |
| **91.5** | 200.998 | 228.786 | 224.495 | 196.892 | 225.623 | 220.504 | 198.627 |
| **92.0** | 197.961 | 226.284 | 221.068 | 194.642 | 222.532 | 218.313 | 196.448 |
| **92.5** | 194.744 | 224.441 | 218.475 | 192.397 | 219.375 | 216.056 | 194.113 |
| **93.0** | 192.139 | 222.580 | 216.465 | 190.116 | 216.753 | 214.274 | 192.097 |
| **93.5** | 189.930 | 220.870 | 214.544 | 187.937 | 214.076 | 212.479 | 189.672 |
| **94.0** | 187.655 | 218.919 | 213.013 | 185.363 | 212.053 | 210.799 | 187.559 |
| **94.5** | 185.645 | 217.047 | 211.567 | 182.890 | 210.277 | 209.160 | 185.453 |
| **95.0** | 183.262 | 215.138 | 209.880 | 180.159 | 208.590 | 207.276 | 183.160 |
| **95.5** | 181.119 | 213.500 | 208.428 | 177.902 | 207.096 | 205.511 | 181.029 |

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**CANDELA TABULATION - (Cont.)**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **96.0** | 178.995 | 211.879 | 206.819 | 175.622 | 205.865 | 203.452 | 178.695 |
| **96.5** | 176.744 | 210.133 | 205.451 | 173.137 | 204.617 | 201.598 | 176.510 |
| **97.0** | 174.889 | 208.800 | 204.125 | 171.102 | 203.566 | 199.923 | 174.685 |
| **97.5** | 173.077 | 207.606 | 202.708 | 168.983 | 202.486 | 198.291 | 172.621 |
| **98.0** | 171.594 | 205.997 | 201.328 | 167.225 | 201.406 | 197.036 | 170.550 |
| **98.5** | 170.142 | 204.485 | 199.719 | 165.598 | 200.217 | 195.428 | 168.167 |
| **99.0** | 168.569 | 202.918 | 198.075 | 163.732 | 198.705 | 193.891 | 166.121 |
| **99.5** | 167.177 | 201.514 | 196.334 | 161.883 | 197.042 | 192.355 | 164.146 |
| **100.0** | 165.478 | 199.815 | 194.396 | 159.753 | 195.086 | 190.722 | 161.697 |
| **100.5** | 163.798 | 197.871 | 192.733 | 157.592 | 193.189 | 189.024 | 159.392 |
| **101.0** | 161.949 | 196.016 | 190.920 | 155.353 | 191.149 | 187.013 | 156.926 |
| **101.5** | 159.681 | 193.735 | 189.162 | 152.724 | 188.982 | 185.183 | 154.789 |
| **102.0** | 157.436 | 191.707 | 187.313 | 150.366 | 187.085 | 183.490 | 152.928 |
| **102.5** | 154.921 | 189.810 | 185.441 | 147.821 | 184.594 | 181.732 | 150.942 |
| **103.0** | 152.790 | 187.805 | 183.550 | 145.612 | 182.680 | 179.985 | 149.165 |
| **103.5** | 150.798 | 185.969 | 181.161 | 143.559 | 181.023 | 177.878 | 147.137 |
| **104.0** | 148.637 | 184.108 | 179.397 | 141.291 | 179.409 | 175.886 | 145.426 |
| **104.5** | 146.927 | 182.560 | 177.452 | 139.340 | 177.914 | 173.929 | 143.529 |
| **105.0** | 145.222 | 180.813 | 175.952 | 137.377 | 176.228 | 171.816 | 141.411 |
| **105.5** | 143.752 | 178.881 | 174.415 | 135.715 | 174.565 | 169.872 | 139.346 |
| **106.0** | 142.125 | 177.140 | 172.615 | 134.136 | 172.825 | 167.969 | 136.843 |
| **106.5** | 140.763 | 175.081 | 170.874 | 132.456 | 170.928 | 166.289 | 134.971 |
| **107.0** | 139.358 | 173.107 | 169.007 | 130.925 | 169.092 | 164.350 | 133.026 |
| **107.5** | 137.678 | 170.844 | 167.015 | 128.975 | 167.003 | 162.369 | 130.835 |
| **108.0** | 136.069 | 168.323 | 164.938 | 126.976 | 164.890 | 160.821 | 129.131 |
| **108.5** | 134.287 | 166.217 | 162.657 | 124.960 | 162.880 | 159.242 | 127.312 |
| **109.0** | 132.138 | 163.984 | 160.545 | 122.841 | 160.695 | 157.310 | 125.668 |
| **109.5** | 130.031 | 161.811 | 158.372 | 121.004 | 158.696 | 155.263 | 123.939 |
| **110.0** | 127.732 | 159.573 | 156.001 | 119.036 | 156.440 | 153.000 | 122.079 |
| **110.5** | 125.872 | 157.718 | 153.877 | 117.283 | 154.489 | 150.888 | 120.710 |
| **111.0** | 123.951 | 155.779 | 151.482 | 115.561 | 152.538 | 148.325 | 119.252 |
| **111.5** | 122.313 | 153.553 | 149.357 | 113.820 | 150.312 | 145.924 | 117.769 |
| **112.0** | 120.770 | 151.524 | 147.353 | 112.404 | 148.157 | 143.517 | 116.323 |
| **112.5** | 119.168 | 149.255 | 145.204 | 110.849 | 145.762 | 140.787 | 114.744 |
| **113.0** | 117.781 | 147.245 | 143.151 | 109.559 | 143.571 | 138.332 | 113.130 |
| **113.5** | 115.621 | 145.078 | 140.859 | 108.316 | 141.291 | 135.631 | 111.557 |
| **114.0** | 113.556 | 142.677 | 138.884 | 106.930 | 138.986 | 133.410 | 110.039 |
| **114.5** | 111.671 | 140.378 | 136.987 | 105.561 | 136.717 | 130.889 | 108.538 |
| **115.0** | 109.817 | 137.696 | 134.731 | 103.941 | 134.022 | 128.075 | 106.828 |
| **115.5** | 108.250 | 135.277 | 132.624 | 102.458 | 131.442 | 125.656 | 105.309 |
| **116.0** | 106.576 | 132.696 | 130.091 | 100.976 | 128.783 | 122.979 | 103.629 |
| **116.5** | 105.255 | 129.869 | 127.504 | 99.223 | 125.920 | 120.458 | 101.924 |
| **117.0** | 103.869 | 127.300 | 124.876 | 97.633 | 123.495 | 118.057 | 100.406 |
| **117.5** | 102.170 | 124.443 | 122.031 | 95.880 | 120.872 | 115.284 | 98.833 |
| **118.0** | 100.628 | 121.821 | 119.546 | 94.368 | 118.435 | 112.872 | 97.189 |
| **118.5** | 98.923 | 119.126 | 116.971 | 92.891 | 116.029 | 110.267 | 95.370 |
| **119.0** | 96.919 | 116.215 | 114.744 | 91.283 | 113.562 | 107.914 | 93.864 |
| **119.5** | 95.004 | 113.652 | 112.410 | 89.812 | 111.305 | 105.369 | 92.159 |
| **120.0** | 92.987 | 110.783 | 109.889 | 88.270 | 108.592 | 102.566 | 90.509 |
| **120.5** | 91.391 | 108.136 | 107.620 | 86.926 | 106.006 | 99.968 | 88.888 |
| **121.0** | 89.674 | 105.093 | 104.979 | 85.671 | 103.395 | 97.009 | 87.190 |
| **121.5** | 88.030 | 100.778 | 102.626 | 84.213 | 100.442 | 94.104 | 85.545 |
| **122.0** | 86.577 | 97.363 | 100.232 | 82.826 | 97.579 | 91.133 | 83.859 |
| **122.5** | 83.516 | 93.894 | 97.369 | 81.038 | 94.236 | 87.850 | 82.070 |
| **123.0** | 79.789 | 89.860 | 94.566 | 79.195 | 90.953 | 84.987 | 80.287 |
| **123.5** | 76.350 | 86.055 | 91.187 | 77.280 | 87.508 | 82.022 | 78.613 |

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**CANDELA TABULATION - (Cont.)**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **124.0** | 72.137 | 81.602 | 88.192 | 75.054 | 84.459 | 78.739 | 76.854 |
| **124.5** | 66.609 | 76.914 | 85.203 | 73.127 | 81.452 | 75.114 | 75.168 |
| **125.0** | 61.814 | 72.053 | 81.914 | 71.038 | 77.611 | 71.117 | 73.091 |
| **125.5** | 56.160 | 67.341 | 78.907 | 69.280 | 73.961 | 67.503 | 71.189 |
| **126.0** | 49.984 | 61.483 | 75.054 | 67.629 | 70.480 | 62.966 | 69.214 |
| **126.5** | 45.248 | 54.683 | 71.867 | 64.532 | 67.389 | 58.663 | 66.165 |
| **127.0** | 39.493 | 49.360 | 68.974 | 61.543 | 63.878 | 54.473 | 63.254 |
| **127.5** | 35.351 | 42.854 | 65.289 | 58.957 | 59.341 | 50.278 | 60.373 |
| **128.0** | 33.173 | 36.089 | 61.345 | 56.976 | 55.283 | 46.713 | 57.768 |
| **128.5** | 27.801 | 32.926 | 56.658 | 54.449 | 51.238 | 42.103 | 54.779 |
| **129.0** | 25.640 | 24.488 | 52.661 | 50.998 | 47.919 | 38.376 | 51.046 |
| **129.5** | 21.361 | 19.986 | 48.982 | 48.123 | 44.300 | 35.033 | 48.015 |
| **130.0** | 20.791 | 14.945 | 45.014 | 45.320 | 39.613 | 32.878 | 45.020 |
| **130.5** | 18.162 | 11.452 | 41.113 | 41.905 | 35.915 | 28.815 | 41.623 |
| **131.0** | 15.857 | 9.147 | 37.158 | 38.352 | 32.698 | 24.764 | 37.608 |
| **131.5** | 14.128 | 8.007 | 34.301 | 34.517 | 29.847 | 22.243 | 34.739 |
| **132.0** | 12.604 | 7.094 | 31.270 | 32.632 | 26.396 | 19.560 | 32.824 |
| **132.5** | 12.472 | 6.170 | 26.907 | 27.729 | 22.003 | 17.321 | 27.915 |
| **133.0** | 12.424 | 5.072 | 22.801 | 24.812 | 20.779 | 14.945 | 24.926 |
| **133.5** | 11.890 | 4.381 | 21.295 | 22.315 | 18.726 | 12.874 | 22.609 |
| **134.0** | 11.746 | 3.859 | 19.338 | 19.248 | 16.697 | 11.350 | 19.836 |
| **134.5** | 12.688 | 3.193 | 16.763 | 16.919 | 14.579 | 9.657 | 16.103 |
| **135.0** | 13.054 | 2.641 | 14.525 | 15.575 | 12.610 | 8.001 | 14.357 |
| **135.5** | 12.400 | 2.389 | 13.252 | 12.940 | 11.025 | 6.278 | 13.126 |
| **136.0** | 12.856 | 2.065 | 11.404 | 11.308 | 9.423 | 4.988 | 10.773 |
| **136.5** | 12.658 | 1.446 | 9.435 | 10.425 | 7.905 | 3.745 | 9.873 |
| **137.0** | 11.788 | 1.242 | 7.935 | 7.628 | 6.518 | 2.635 | 8.127 |
| **137.5** | 11.049 | 1.008 | 6.290 | 6.248 | 5.054 | 2.317 | 6.446 |
| **138.0** | 9.243 | 0.870 | 4.567 | 4.615 | 3.559 | 1.621 | 5.150 |
| **138.5** | 7.448 | 0.852 | 3.301 | 3.403 | 2.779 | 1.416 | 3.565 |
| **139.0** | 6.308 | 0.834 | 2.419 | 2.683 | 1.903 | 1.326 | 2.875 |
| **139.5** | 4.519 | 0.822 | 1.963 | 1.332 | 1.729 | 1.218 | 1.434 |
| **140.0** | 3.313 | 0.792 | 1.759 | 1.182 | 1.591 | 1.152 | 1.194 |
| **140.5** | 1.506 | 0.738 | 1.645 | 1.110 | 1.542 | 1.026 | 1.098 |
| **141.0** | 1.440 | 0.702 | 1.530 | 0.972 | 1.434 | 0.972 | 1.008 |
| **141.5** | 1.362 | 0.690 | 1.404 | 0.930 | 1.290 | 0.912 | 0.900 |
| **142.0** | 1.278 | 0.648 | 1.350 | 0.858 | 1.224 | 0.828 | 0.834 |
| **142.5** | 1.182 | 0.606 | 1.260 | 0.762 | 1.152 | 0.672 | 0.780 |
| **143.0** | 1.122 | 0.534 | 1.200 | 0.714 | 1.074 | 0.660 | 0.708 |
| **143.5** | 1.062 | 0.486 | 1.146 | 0.642 | 0.996 | 0.594 | 0.636 |
| **144.0** | 0.948 | 0.474 | 1.062 | 0.600 | 0.960 | 0.570 | 0.630 |
| **144.5** | 0.888 | 0.414 | 0.996 | 0.528 | 0.924 | 0.504 | 0.540 |
| **145.0** | 0.846 | 0.354 | 0.954 | 0.528 | 0.858 | 0.486 | 0.534 |
| **145.5** | 0.786 | 0.360 | 0.876 | 0.480 | 0.804 | 0.414 | 0.486 |
| **146.0** | 0.780 | 0.390 | 0.816 | 0.414 | 0.750 | 0.390 | 0.486 |
| **146.5** | 0.690 | 0.384 | 0.792 | 0.414 | 0.714 | 0.348 | 0.390 |
| **147.0** | 0.654 | 0.390 | 0.762 | 0.384 | 0.660 | 0.312 | 0.348 |
| **147.5** | 0.648 | 0.318 | 0.726 | 0.318 | 0.630 | 0.282 | 0.282 |
| **148.0** | 0.600 | 0.300 | 0.684 | 0.336 | 0.594 | 0.264 | 0.252 |
| **148.5** | 0.558 | 0.276 | 0.630 | 0.258 | 0.534 | 0.252 | 0.252 |
| **149.0** | 0.528 | 0.252 | 0.636 | 0.246 | 0.534 | 0.234 | 0.240 |
| **149.5** | 0.486 | 0.234 | 0.618 | 0.234 | 0.492 | 0.216 | 0.222 |
| **150.0** | 0.468 | 0.228 | 0.564 | 0.204 | 0.450 | 0.204 | 0.192 |
| **150.5** | 0.462 | 0.186 | 0.558 | 0.156 | 0.432 | 0.174 | 0.204 |
| **151.0** | 0.390 | 0.180 | 0.486 | 0.192 | 0.402 | 0.180 | 0.168 |
| **151.5** | 0.402 | 0.192 | 0.474 | 0.186 | 0.348 | 0.156 | 0.162 |

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**CANDELA TABULATION - (Cont.)**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **152.0** | 0.360 | 0.192 | 0.438 | 0.156 | 0.336 | 0.144 | 0.162 |
| **152.5** | 0.372 | 0.174 | 0.396 | 0.150 | 0.324 | 0.102 | 0.162 |
| **153.0** | 0.324 | 0.162 | 0.360 | 0.144 | 0.318 | 0.138 | 0.138 |
| **153.5** | 0.312 | 0.144 | 0.324 | 0.144 | 0.288 | 0.126 | 0.156 |
| **154.0** | 0.318 | 0.150 | 0.306 | 0.126 | 0.282 | 0.120 | 0.144 |
| **154.5** | 0.306 | 0.132 | 0.342 | 0.144 | 0.276 | 0.102 | 0.144 |
| **155.0** | 0.294 | 0.102 | 0.318 | 0.132 | 0.252 | 0.102 | 0.114 |
| **155.5** | 0.294 | 0.120 | 0.282 | 0.102 | 0.240 | 0.126 | 0.126 |
| **156.0** | 0.276 | 0.102 | 0.282 | 0.102 | 0.264 | 0.090 | 0.138 |
| **156.5** | 0.252 | 0.150 | 0.246 | 0.114 | 0.240 | 0.102 | 0.144 |
| **157.0** | 0.270 | 0.120 | 0.276 | 0.096 | 0.216 | 0.096 | 0.144 |
| **157.5** | 0.264 | 0.126 | 0.270 | 0.096 | 0.216 | 0.102 | 0.126 |
| **158.0** | 0.252 | 0.120 | 0.264 | 0.150 | 0.198 | 0.078 | 0.114 |
| **158.5** | 0.264 | 0.126 | 0.222 | 0.096 | 0.216 | 0.078 | 0.120 |
| **159.0** | 0.228 | 0.126 | 0.240 | 0.126 | 0.204 | 0.096 | 0.132 |
| **159.5** | 0.216 | 0.114 | 0.234 | 0.102 | 0.216 | 0.114 | 0.132 |
| **160.0** | 0.180 | 0.138 | 0.246 | 0.114 | 0.222 | 0.090 | 0.132 |
| **160.5** | 0.216 | 0.126 | 0.210 | 0.090 | 0.198 | 0.090 | 0.126 |
| **161.0** | 0.216 | 0.084 | 0.246 | 0.114 | 0.186 | 0.066 | 0.156 |
| **161.5** | 0.192 | 0.114 | 0.210 | 0.120 | 0.198 | 0.096 | 0.132 |
| **162.0** | 0.186 | 0.120 | 0.234 | 0.114 | 0.186 | 0.090 | 0.126 |
| **162.5** | 0.204 | 0.120 | 0.222 | 0.114 | 0.186 | 0.090 | 0.102 |
| **163.0** | 0.204 | 0.132 | 0.192 | 0.120 | 0.186 | 0.084 | 0.114 |
| **163.5** | 0.198 | 0.078 | 0.222 | 0.120 | 0.180 | 0.102 | 0.120 |
| **164.0** | 0.216 | 0.102 | 0.198 | 0.114 | 0.186 | 0.120 | 0.120 |
| **164.5** | 0.168 | 0.084 | 0.192 | 0.090 | 0.186 | 0.120 | 0.114 |
| **165.0** | 0.162 | 0.096 | 0.180 | 0.096 | 0.204 | 0.090 | 0.120 |
| **165.5** | 0.174 | 0.126 | 0.198 | 0.084 | 0.162 | 0.090 | 0.138 |
| **166.0** | 0.168 | 0.084 | 0.216 | 0.084 | 0.186 | 0.102 | 0.114 |
| **166.5** | 0.168 | 0.084 | 0.168 | 0.078 | 0.162 | 0.072 | 0.138 |
| **167.0** | 0.186 | 0.126 | 0.192 | 0.096 | 0.186 | 0.078 | 0.084 |
| **167.5** | 0.162 | 0.090 | 0.180 | 0.102 | 0.138 | 0.090 | 0.138 |
| **168.0** | 0.162 | 0.090 | 0.162 | 0.084 | 0.168 | 0.066 | 0.090 |
| **168.5** | 0.174 | 0.096 | 0.162 | 0.090 | 0.168 | 0.102 | 0.096 |
| **169.0** | 0.180 | 0.102 | 0.156 | 0.084 | 0.168 | 0.072 | 0.102 |
| **169.5** | 0.150 | 0.090 | 0.162 | 0.090 | 0.144 | 0.084 | 0.120 |
| **170.0** | 0.144 | 0.096 | 0.138 | 0.084 | 0.150 | 0.096 | 0.114 |
| **170.5** | 0.144 | 0.096 | 0.138 | 0.096 | 0.138 | 0.078 | 0.090 |
| **171.0** | 0.168 | 0.096 | 0.150 | 0.078 | 0.132 | 0.054 | 0.096 |
| **171.5** | 0.132 | 0.060 | 0.144 | 0.078 | 0.120 | 0.060 | 0.096 |
| **172.0** | 0.132 | 0.084 | 0.132 | 0.078 | 0.156 | 0.078 | 0.102 |
| **172.5** | 0.144 | 0.096 | 0.126 | 0.120 | 0.138 | 0.066 | 0.114 |
| **173.0** | 0.120 | 0.066 | 0.138 | 0.078 | 0.120 | 0.102 | 0.126 |
| **173.5** | 0.138 | 0.090 | 0.120 | 0.078 | 0.138 | 0.078 | 0.096 |
| **174.0** | 0.126 | 0.084 | 0.156 | 0.066 | 0.132 | 0.060 | 0.090 |
| **174.5** | 0.144 | 0.084 | 0.126 | 0.096 | 0.120 | 0.096 | 0.084 |
| **175.0** | 0.102 | 0.084 | 0.096 | 0.072 | 0.138 | 0.072 | 0.114 |
| **175.5** | 0.096 | 0.078 | 0.144 | 0.078 | 0.084 | 0.066 | 0.078 |
| **176.0** | 0.096 | 0.078 | 0.120 | 0.078 | 0.096 | 0.060 | 0.096 |
| **176.5** | 0.120 | 0.090 | 0.102 | 0.072 | 0.096 | 0.078 | 0.084 |
| **177.0** | 0.114 | 0.066 | 0.090 | 0.072 | 0.102 | 0.084 | 0.072 |
| **177.5** | 0.114 | 0.060 | 0.096 | 0.054 | 0.126 | 0.066 | 0.072 |
| **178.0** | 0.090 | 0.054 | 0.138 | 0.090 | 0.078 | 0.060 | 0.090 |
| **178.5** | 0.132 | 0.054 | 0.078 | 0.060 | 0.090 | 0.066 | 0.102 |
| **179.0** | 0.126 | 0.054 | 0.096 | 0.078 | 0.090 | 0.072 | 0.114 |
| **179.5** | 0.084 | 0.048 | 0.090 | 0.090 | 0.090 | 0.078 | 0.090 |

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Results derived from content of manufacturers photometric file.

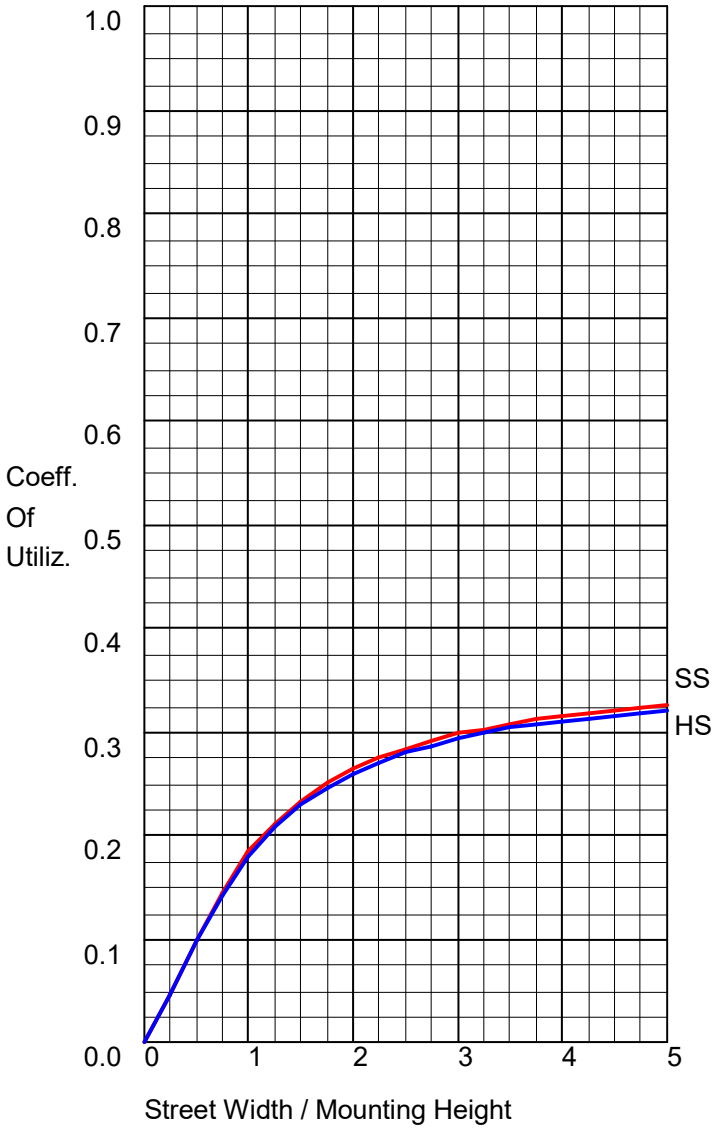
**CANDELA TABULATION - (Cont.)**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **180.0** | 0.126 | 0.060 | 0.090 | 0.078 | 0.090 | 0.072 | 0.096 |

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**IES ROAD REPORT**
**PHOTOMETRIC FILENAME : EPL-MJ-15W-LED-XX-WLM.IES**

**COEFFICIENTS OF UTILIZATION**



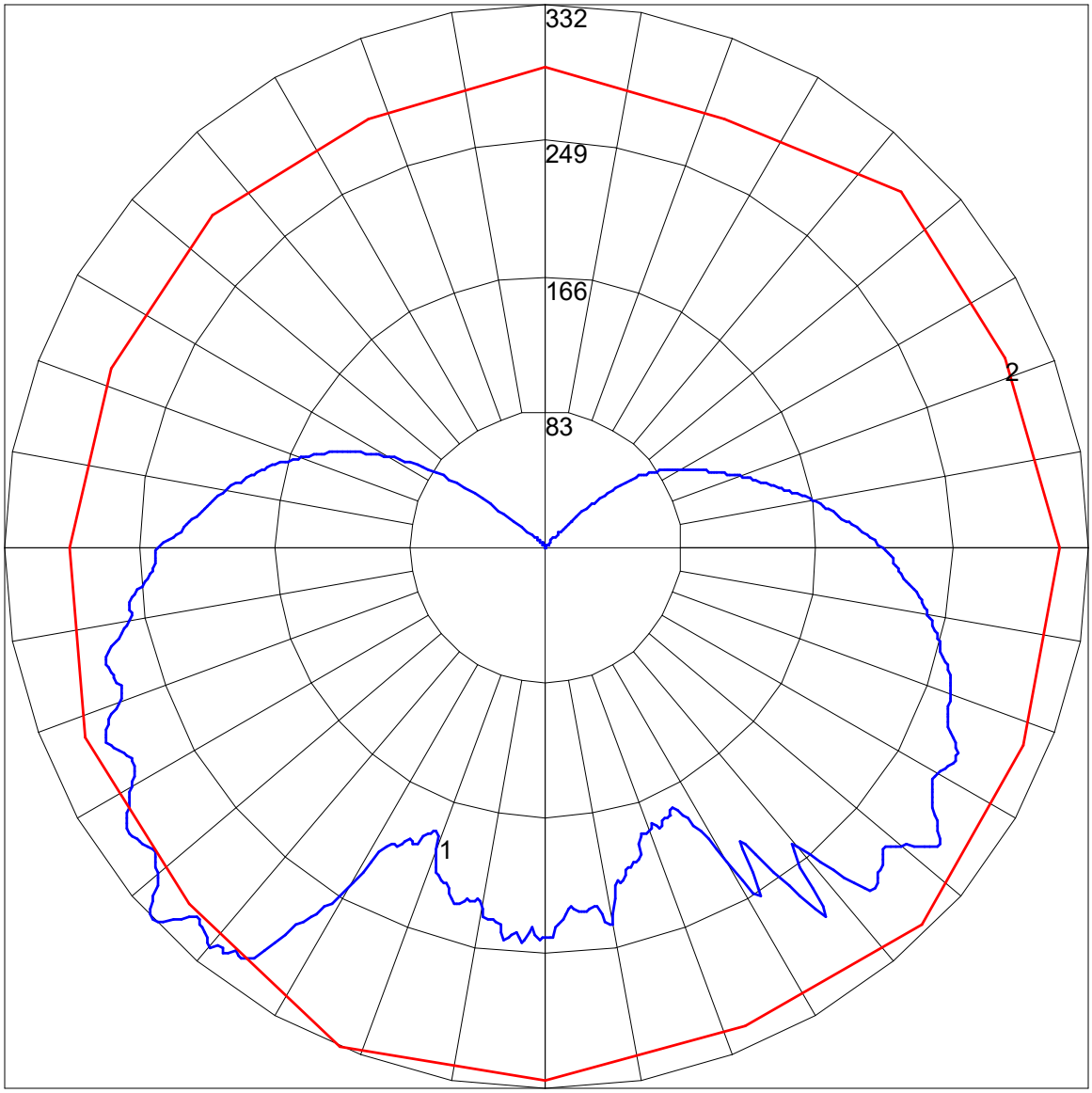

**FLUX DISTRIBUTION**

| | Lumens | Percent Of Lamp |
|---|---|---|
| Downward Street Side | 825.1 | 36.8 |
| Downward House Side | 811.1 | 36.2 |
| Downward Total | 1636.2 | 73.0 |
| Upward Street Side | 298.6 | 13.3 |
| Upward House Side | 306.6 | 13.7 |
| Upward Total | 605.2 | 27.0 |
| Total Flux | 2241.4 | 100.0 |

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**IES ROAD REPORT**
**PHOTOMETRIC FILENAME : EPL-MJ-15W-LED-XX-WLM.IES**

**POLAR GRAPH**

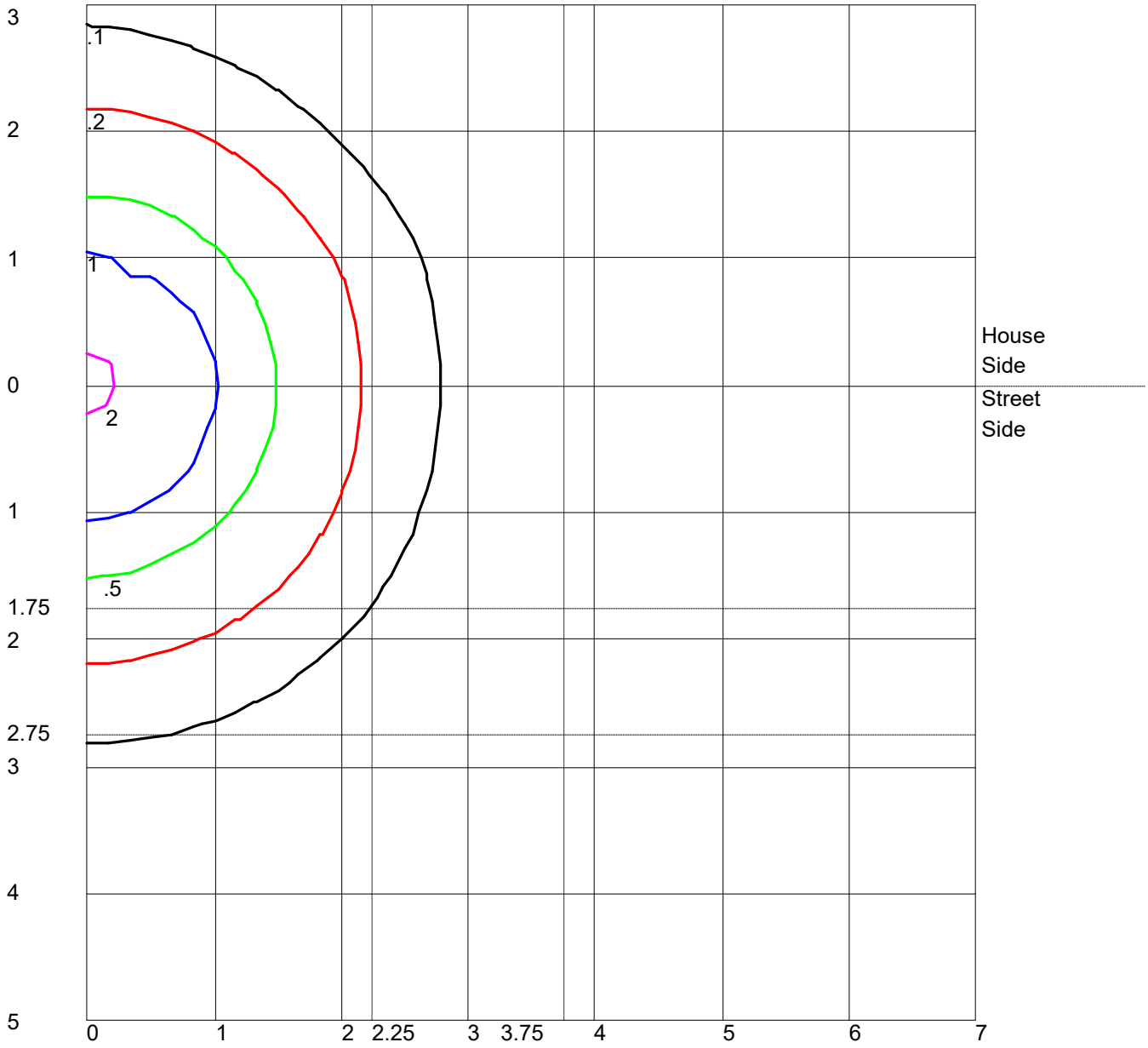



Maximum Candela = 331.713  Located At Horizontal Angle = 247.5, Vertical Angle = 46.5
# 1 - Vertical Plane Through Horizontal Angles (247.5 - 67.5) (Through Max. Cd.)
# 2 - Horizontal Cone Through Vertical Angle (46.5) (Through Max. Cd.)

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Results derived from content of manufacturers photometric file.

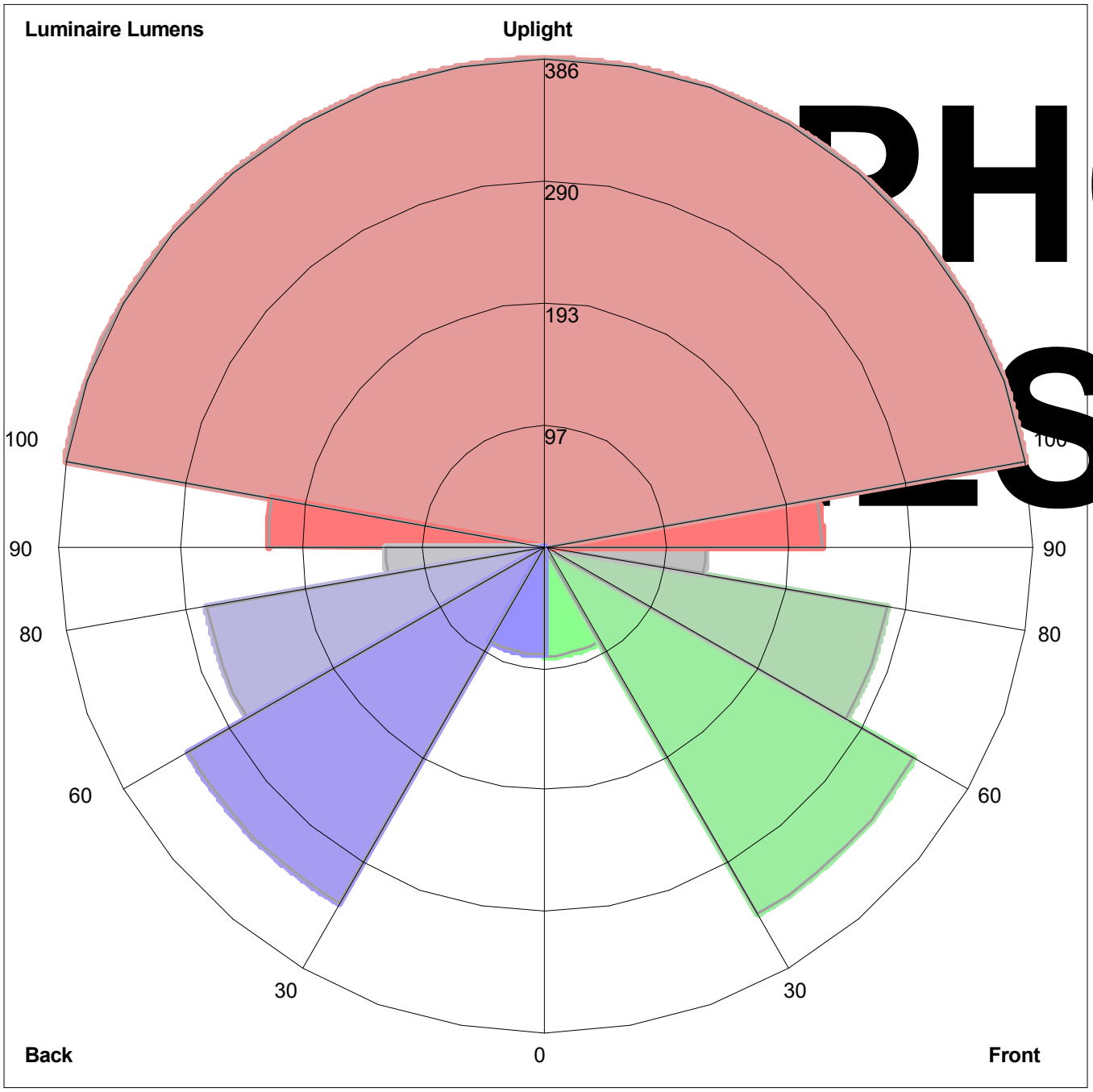
**IES ROAD REPORT**
**PHOTOMETRIC FILENAME : EPL-MJ-15W-LED-XX-WLM.IES**

**ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE**




Distance In Units Of Mounting Height

Values Based On 10 Foot Mounting Height


Luminaire Lumens
Uplight
386
290
193
97
100
100
90
90
80
80
60
60
30
30
0
Back
Front