

Scaled data based on original data using  
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge  
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: 768062

Luminaire Tested: **CLB17MXX33X1X**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: 768062  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CLB17MXX33X1X  
Description: REFRACTIVE GLOBE TYPE III ACRYLIC  
WITH CLEAR TOP  
Light Source: 175W MH CL ED-28  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 14000 (1 lamp)  
Luminaire Lumens: 12914.9 lumens  
Efficiency: 92.2%  
Efficacy: 73.8 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B3 - U5 - G3

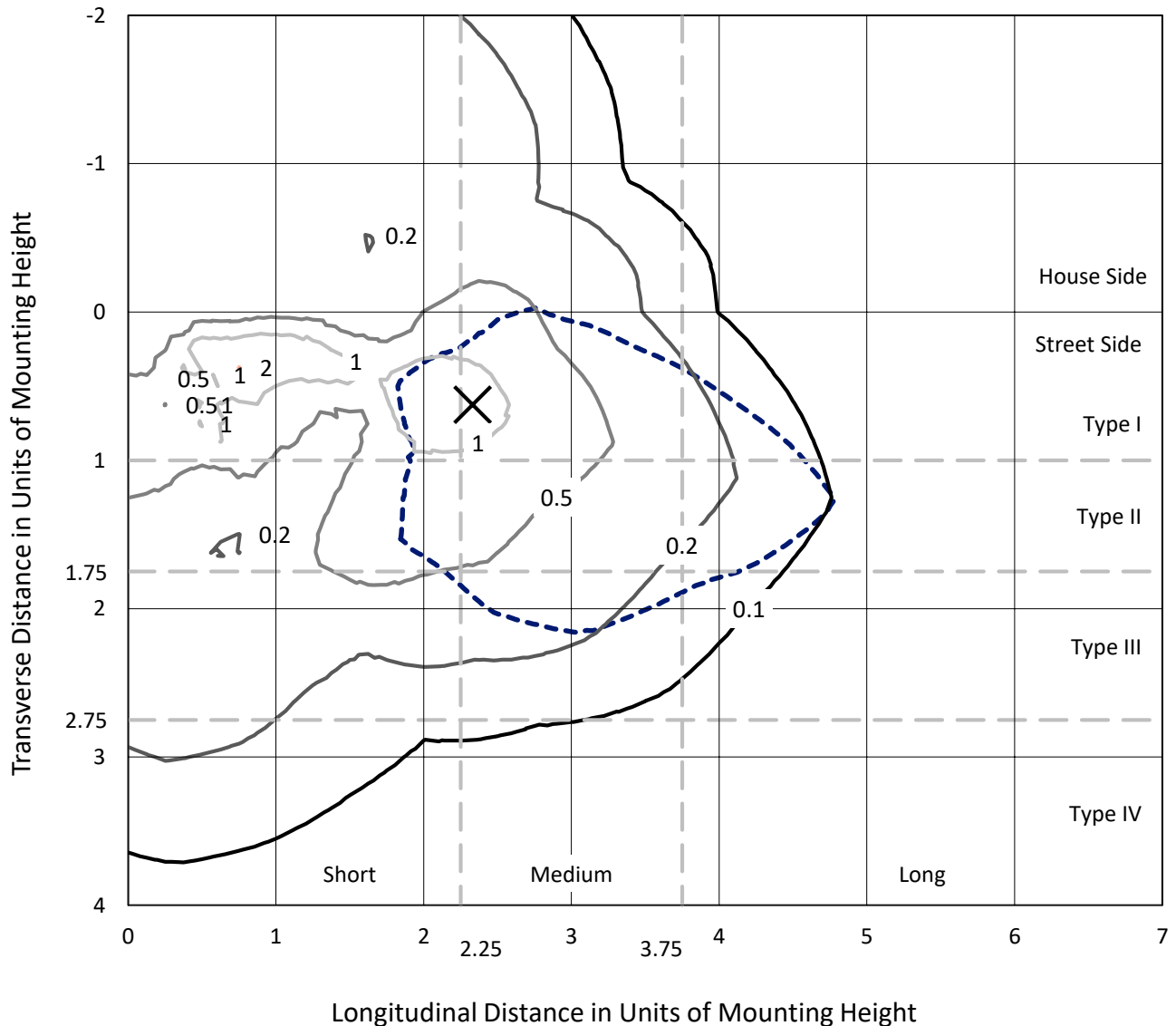
Input Watts (W): 175  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

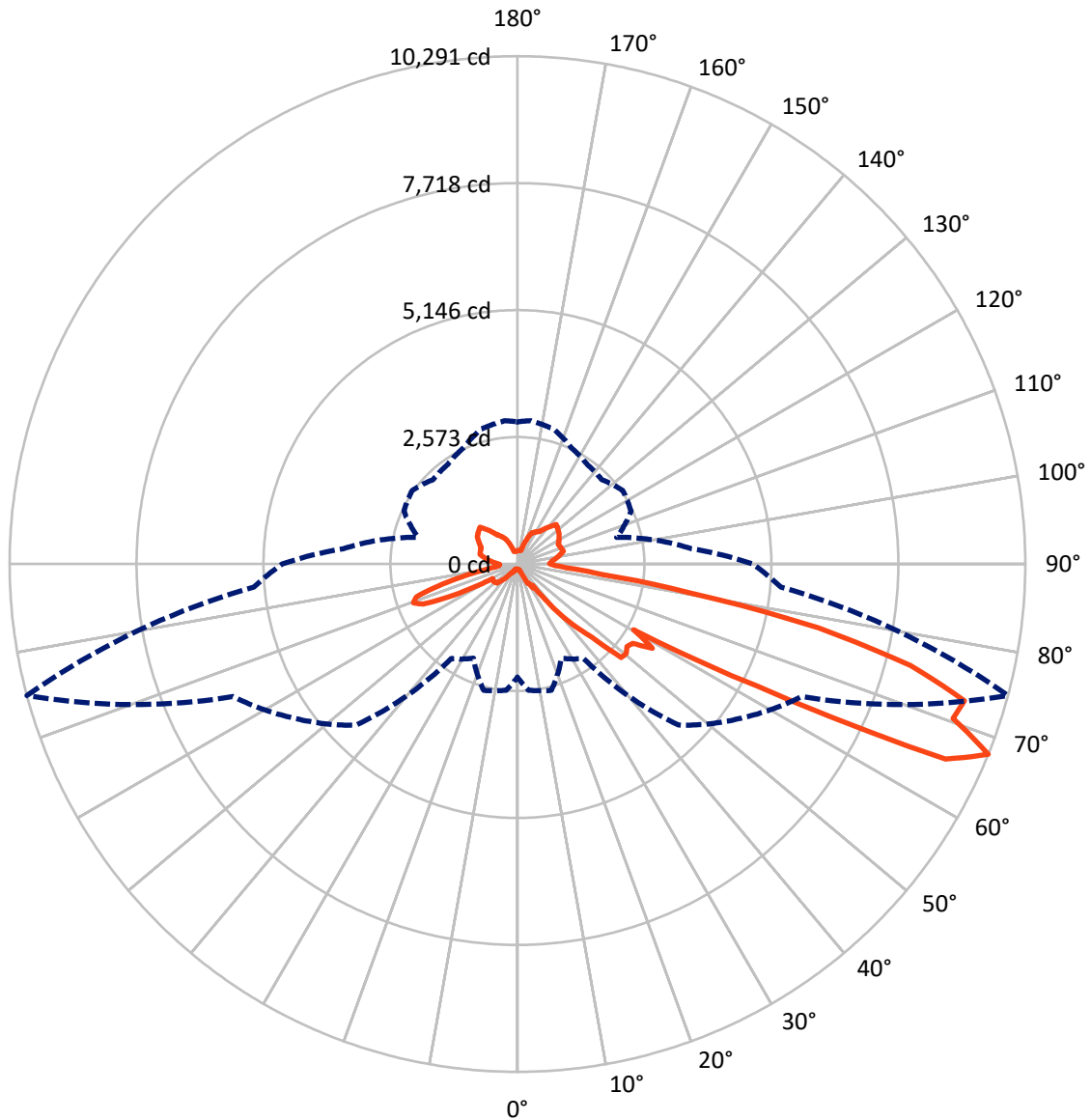
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical



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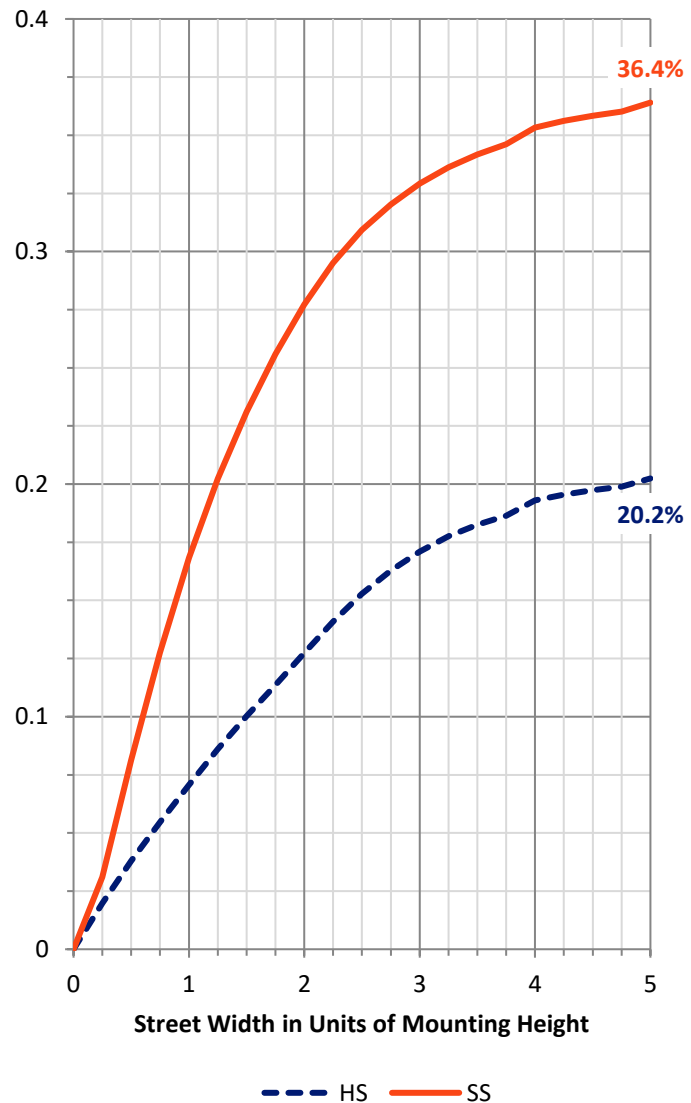
**FLUX DISTRIBUTION:**

|                    |        | Downward | Upward | Total   |
|--------------------|--------|----------|--------|---------|
| <b>House Side</b>  | Lumens | 2922.8   | 2219.9 | 5142.7  |
|                    | % Lamp | 20.9     | 15.9   | 36.7    |
| <b>Street Side</b> | Lumens | 5234.4   | 2537.8 | 7772.2  |
|                    | % Lamp | 37.4     | 18.1   | 55.5    |
| <b>Total</b>       | Lumens | 8157.1   | 4757.8 | 12914.9 |
|                    | % Lamp | 58.3     | 34.0   | 92.2    |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture | % Lamp |
|-----------|---------|-----------|--------|
| 0°-10°    | 10.5    | 0.1       | 0.1    |
| 10°-20°   | 35.4    | 0.3       | 0.3    |
| 20°-30°   | 122.3   | 0.9       | 0.9    |
| 30°-40°   | 281.7   | 2.2       | 2.0    |
| 40°-50°   | 616.5   | 4.8       | 4.4    |
| 50°-60°   | 781.2   | 6.0       | 5.6    |
| 60°-70°   | 2645.5  | 20.5      | 18.9   |
| 70°-80°   | 2996.0  | 23.2      | 21.4   |
| 80°-90°   | 668.0   | 5.2       | 4.8    |
| 90°-100°  | 602.4   | 4.7       | 4.3    |
| 100°-110° | 810.2   | 6.3       | 5.8    |
| 110°-120° | 848.2   | 6.6       | 6.1    |
| 120°-130° | 827.0   | 6.4       | 5.9    |
| 130°-140° | 718.0   | 5.6       | 5.1    |
| 140°-150° | 498.8   | 3.9       | 3.6    |
| 150°-160° | 270.0   | 2.1       | 1.9    |
| 160°-170° | 103.3   | 0.8       | 0.7    |
| 170°-180° | 25.6    | 0.2       | 0.2    |
| 0°-90°    | 8157.1  | 63.2      | 58.3   |
| 0°-180°   | 12914.9 | 100.0     | 92.2   |



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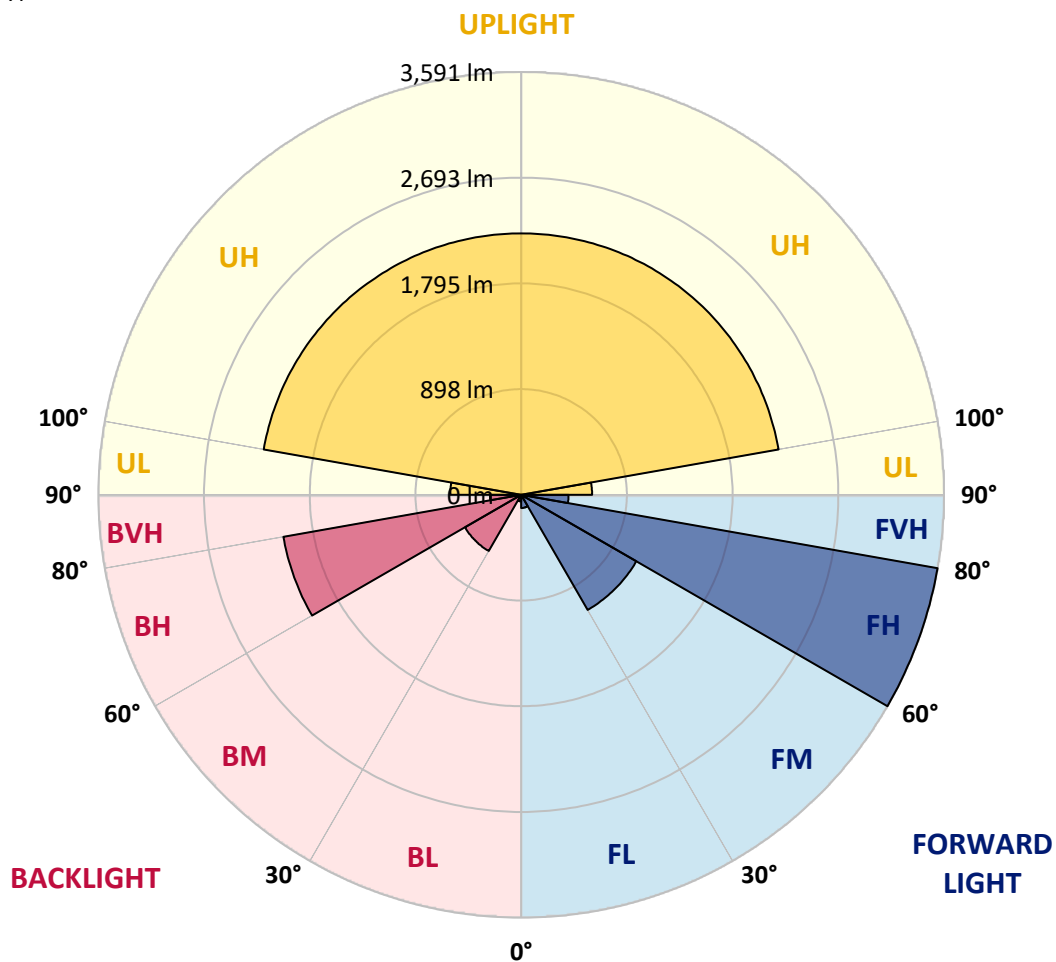
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone          |             | Lumens | % Lamp | Zone Rating/Lumen Limit |         |         |
|---------------|-------------|--------|--------|-------------------------|---------|---------|
|               |             |        |        | B                       | U       | G       |
| FL            | (0°-30°)    | 112.2  | 0.8    |                         |         |         |
| FM            | (30°-60°)   | 1128.8 | 8.1    |                         |         |         |
| FH            | (60°-80°)   | 3591.0 | 25.6   |                         |         | G2/5000 |
| FVH           | (80°-90°)   | 402.4  | 2.9    |                         |         | G3/500  |
| BL            | (0°-30°)    | 56.0   | 0.4    | B0/110                  |         |         |
| BM            | (30°-60°)   | 550.6  | 3.9    | B1/1000                 |         |         |
| BH            | (60°-80°)   | 2050.5 | 14.6   | B3/2500                 |         | G3/2500 |
| BVH           | (80°-90°)   | 265.6  | 1.9    |                         |         | G3/500  |
| UL            | (90°-100°)  | 602.4  | 4.3    |                         | U4/1000 |         |
| UH            | (100°-180°) | 2219.9 | 15.9   |                         | U5      |         |
| Trapped Light |             | 1085.1 | 7.8    |                         |         |         |

**BUG Rating: B3-U5-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°   | 5°   | 15°  | 25°  | 35°  | 45°  | 55°  | 65°  | 75°   | 85°  | 90°  |
|-------|------|------|------|------|------|------|------|------|-------|------|------|
| 0°    | 121  | 121  | 121  | 121  | 121  | 121  | 121  | 121  | 121   | 121  | 121  |
| 2.5°  | 121  | 121  | 121  | 121  | 121  | 121  | 121  | 116  | 121   | 112  | 116  |
| 5°    | 121  | 121  | 121  | 121  | 121  | 121  | 116  | 112  | 112   | 112  | 112  |
| 7.5°  | 112  | 112  | 116  | 121  | 126  | 126  | 126  | 121  | 112   | 107  | 102  |
| 10°   | 121  | 116  | 116  | 121  | 126  | 140  | 135  | 130  | 116   | 107  | 107  |
| 12.5° | 121  | 121  | 121  | 126  | 135  | 154  | 149  | 135  | 121   | 112  | 107  |
| 15°   | 121  | 121  | 126  | 130  | 154  | 172  | 168  | 149  | 126   | 112  | 107  |
| 17.5° | 158  | 149  | 149  | 158  | 191  | 210  | 196  | 163  | 130   | 112  | 107  |
| 20°   | 158  | 158  | 149  | 163  | 205  | 237  | 228  | 205  | 158   | 126  | 116  |
| 22.5° | 233  | 228  | 200  | 205  | 279  | 293  | 312  | 270  | 200   | 140  | 130  |
| 25°   | 326  | 312  | 275  | 270  | 438  | 466  | 484  | 475  | 293   | 182  | 154  |
| 27.5° | 484  | 466  | 396  | 363  | 601  | 615  | 633  | 824  | 438   | 214  | 177  |
| 30°   | 428  | 410  | 340  | 312  | 475  | 517  | 657  | 987  | 456   | 219  | 182  |
| 32.5° | 512  | 489  | 405  | 354  | 596  | 596  | 759  | 1197 | 582   | 251  | 214  |
| 35°   | 419  | 414  | 359  | 317  | 494  | 480  | 535  | 1136 | 526   | 242  | 210  |
| 37.5° | 549  | 554  | 484  | 410  | 740  | 698  | 796  | 1527 | 903   | 303  | 251  |
| 40°   | 838  | 866  | 717  | 591  | 1094 | 959  | 1080 | 1918 | 1355  | 386  | 312  |
| 42.5° | 847  | 871  | 717  | 582  | 1085 | 931  | 1029 | 1825 | 1737  | 442  | 373  |
| 45°   | 894  | 866  | 778  | 619  | 1211 | 1052 | 1108 | 1565 | 2114  | 531  | 438  |
| 47.5° | 1034 | 1001 | 889  | 708  | 1290 | 1220 | 1294 | 1504 | 2831  | 684  | 489  |
| 50°   | 810  | 768  | 689  | 554  | 936  | 899  | 941  | 1024 | 2854  | 852  | 559  |
| 52.5° | 838  | 773  | 675  | 554  | 973  | 913  | 941  | 978  | 2780  | 1099 | 657  |
| 55°   | 857  | 792  | 643  | 554  | 1034 | 1024 | 1090 | 1090 | 2836  | 1038 | 712  |
| 57.5° | 922  | 889  | 703  | 563  | 1132 | 1090 | 1141 | 1225 | 3222  | 1094 | 796  |
| 60°   | 643  | 671  | 680  | 508  | 871  | 941  | 978  | 1057 | 2701  | 1173 | 1015 |
| 62.5° | 1155 | 1281 | 1308 | 1048 | 1579 | 2058 | 2608 | 3059 | 5448  | 2053 | 1797 |
| 65°   | 1891 | 2119 | 2207 | 1709 | 2365 | 3707 | 4624 | 5178 | 9532  | 3544 | 3031 |
| 67.5° | 2291 | 2566 | 2650 | 2105 | 2338 | 4615 | 5467 | 6356 | 10291 | 5360 | 4768 |
| 70°   | 2319 | 2514 | 2473 | 2105 | 2030 | 3944 | 5802 | 6538 | 9364  | 5886 | 5122 |
| 72.5° | 2440 | 2668 | 2570 | 2282 | 2128 | 3474 | 6272 | 6892 | 9471  | 5853 | 4545 |
| 75°   | 2114 | 2314 | 2226 | 1993 | 1844 | 2892 | 5113 | 6146 | 8233  | 4852 | 3241 |
| 77.5° | 1592 | 1723 | 1672 | 1527 | 1378 | 2123 | 3716 | 4661 | 6240  | 3311 | 1993 |
| 80°   | 922  | 987  | 964  | 871  | 806  | 1145 | 1932 | 2594 | 3520  | 1783 | 1136 |
| 82.5° | 522  | 554  | 559  | 512  | 480  | 643  | 996  | 1276 | 1718  | 1020 | 717  |
| 85°   | 382  | 400  | 405  | 382  | 373  | 456  | 666  | 810  | 1010  | 712  | 531  |
| 87.5° | 363  | 373  | 377  | 373  | 363  | 414  | 563  | 619  | 736   | 610  | 480  |
| 90°   | 391  | 410  | 400  | 405  | 396  | 424  | 545  | 563  | 647   | 559  | 447  |
| 95°   | 531  | 545  | 526  | 554  | 526  | 512  | 624  | 643  | 717   | 629  | 545  |
| 105°  | 810  | 833  | 806  | 833  | 810  | 866  | 875  | 1071 | 964   | 871  | 796  |
| 115°  | 829  | 838  | 815  | 843  | 824  | 829  | 829  | 880  | 917   | 843  | 820  |
| 125°  | 922  | 913  | 894  | 945  | 927  | 945  | 996  | 1010 | 1038  | 955  | 936  |
| 135°  | 1099 | 1071 | 1057 | 1094 | 1066 | 1099 | 1118 | 1206 | 1122  | 1048 | 1057 |
| 145°  | 969  | 908  | 880  | 889  | 857  | 833  | 773  | 820  | 801   | 801  | 792  |
| 155°  | 885  | 899  | 885  | 847  | 820  | 801  | 722  | 652  | 689   | 689  | 671  |
| 165°  | 307  | 307  | 307  | 307  | 307  | 307  | 298  | 289  | 279   | 279  | 275  |



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**CANDELA DISTRIBUTION (continued):**

|      | 0°  | 5°  | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 175° | 307 | 307 | 307 | 307 | 307 | 307 | 298 | 289 | 279 | 279 | 275 |
| 180° | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 |





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**CANDELA DISTRIBUTION (continued):**

|       | 95°  | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|------|------|------|------|------|------|------|------|------|------|
| 0°    | 121  | 121  | 121  | 121  | 121  | 121  | 121  | 121  | 121  | 121  |
| 2.5°  | 112  | 112  | 112  | 112  | 112  | 112  | 112  | 112  | 112  | 102  |
| 5°    | 107  | 102  | 102  | 102  | 102  | 102  | 102  | 102  | 98   | 93   |
| 7.5°  | 102  | 98   | 98   | 98   | 98   | 98   | 93   | 93   | 93   | 93   |
| 10°   | 102  | 98   | 102  | 93   | 93   | 93   | 93   | 93   | 93   | 93   |
| 12.5° | 102  | 102  | 98   | 98   | 98   | 93   | 93   | 93   | 93   | 93   |
| 15°   | 102  | 102  | 93   | 98   | 98   | 93   | 93   | 93   | 98   | 93   |
| 17.5° | 107  | 102  | 102  | 102  | 102  | 102  | 102  | 102  | 102  | 102  |
| 20°   | 112  | 112  | 112  | 112  | 107  | 112  | 112  | 112  | 112  | 112  |
| 22.5° | 121  | 121  | 121  | 121  | 126  | 126  | 126  | 126  | 121  | 121  |
| 25°   | 140  | 149  | 149  | 158  | 168  | 163  | 172  | 177  | 168  | 168  |
| 27.5° | 168  | 182  | 182  | 196  | 200  | 200  | 200  | 200  | 196  | 196  |
| 30°   | 172  | 186  | 191  | 200  | 200  | 196  | 191  | 186  | 182  | 186  |
| 32.5° | 200  | 214  | 228  | 237  | 237  | 233  | 228  | 224  | 219  | 214  |
| 35°   | 210  | 219  | 228  | 237  | 247  | 237  | 242  | 242  | 233  | 233  |
| 37.5° | 251  | 270  | 293  | 298  | 298  | 289  | 284  | 275  | 270  | 270  |
| 40°   | 317  | 354  | 377  | 377  | 373  | 368  | 373  | 368  | 349  | 345  |
| 42.5° | 368  | 419  | 438  | 438  | 433  | 438  | 438  | 433  | 424  | 410  |
| 45°   | 424  | 489  | 503  | 508  | 503  | 498  | 489  | 484  | 498  | 484  |
| 47.5° | 475  | 563  | 587  | 573  | 554  | 582  | 601  | 568  | 563  | 568  |
| 50°   | 484  | 573  | 629  | 573  | 540  | 563  | 605  | 573  | 568  | 587  |
| 52.5° | 535  | 591  | 666  | 624  | 582  | 605  | 680  | 619  | 587  | 587  |
| 55°   | 563  | 596  | 657  | 657  | 577  | 643  | 703  | 675  | 610  | 605  |
| 57.5° | 587  | 591  | 638  | 643  | 610  | 619  | 694  | 689  | 638  | 624  |
| 60°   | 652  | 582  | 652  | 647  | 624  | 619  | 694  | 694  | 643  | 624  |
| 62.5° | 1169 | 978  | 1201 | 1215 | 1169 | 1136 | 1267 | 1308 | 1248 | 1192 |
| 65°   | 2142 | 1555 | 1867 | 1960 | 1858 | 1830 | 1946 | 2123 | 2100 | 2030 |
| 67.5° | 3544 | 2081 | 2538 | 2603 | 2417 | 2463 | 2594 | 2831 | 2915 | 2878 |
| 70°   | 4312 | 2249 | 2747 | 2705 | 2514 | 2589 | 2705 | 2994 | 3194 | 3083 |
| 72.5° | 4247 | 2156 | 2570 | 2589 | 2491 | 2510 | 2640 | 2975 | 3273 | 3138 |
| 75°   | 3143 | 1672 | 1956 | 1993 | 1956 | 1881 | 2007 | 2212 | 2473 | 2514 |
| 77.5° | 1835 | 1155 | 1341 | 1392 | 1374 | 1322 | 1378 | 1490 | 1644 | 1686 |
| 80°   | 1062 | 731  | 843  | 861  | 852  | 824  | 838  | 866  | 941  | 959  |
| 82.5° | 689  | 466  | 512  | 517  | 508  | 498  | 498  | 517  | 554  | 559  |
| 85°   | 522  | 382  | 396  | 396  | 391  | 382  | 386  | 400  | 424  | 428  |
| 87.5° | 484  | 359  | 373  | 368  | 363  | 359  | 363  | 373  | 391  | 391  |
| 90°   | 456  | 373  | 386  | 386  | 377  | 373  | 377  | 377  | 391  | 382  |
| 95°   | 540  | 498  | 498  | 517  | 498  | 484  | 484  | 484  | 475  | 438  |
| 105°  | 815  | 782  | 787  | 875  | 875  | 857  | 833  | 810  | 820  | 680  |
| 115°  | 824  | 806  | 796  | 829  | 815  | 782  | 806  | 787  | 759  | 643  |
| 125°  | 945  | 987  | 945  | 885  | 866  | 871  | 871  | 871  | 815  | 680  |
| 135°  | 1043 | 1062 | 987  | 973  | 936  | 908  | 866  | 880  | 782  | 661  |
| 145°  | 778  | 736  | 703  | 680  | 698  | 633  | 582  | 582  | 554  | 512  |
| 155°  | 638  | 568  | 512  | 531  | 540  | 545  | 517  | 522  | 475  | 428  |
| 165°  | 270  | 261  | 251  | 247  | 237  | 228  | 219  | 205  | 200  | 196  |



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**CANDELA DISTRIBUTION (continued):**

|      | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|------|-----|------|------|------|------|------|------|------|------|------|
| 175° | 270 | 261  | 251  | 247  | 237  | 228  | 219  | 205  | 200  | 196  |
| 180° | 270 | 270  | 270  | 270  | 270  | 270  | 270  | 270  | 270  | 270  |

(END OF REPORT)