

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: 768914

Luminaire Tested: **ACN17MXX3CX6X**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: 768914  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ACN17MXX3CX6X  
Description: CUTOFF GENERATIONS POST TOP  
Light Source: 175 WATT MH CLEAR ED-28  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 14000 (1 lamp)  
Luminaire Lumens: 10371.7 lumens  
Efficiency: 74.1%  
Efficacy: 59.3 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type IV - Short - Cutoff  
BUG Rating: B3 - U2 - 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

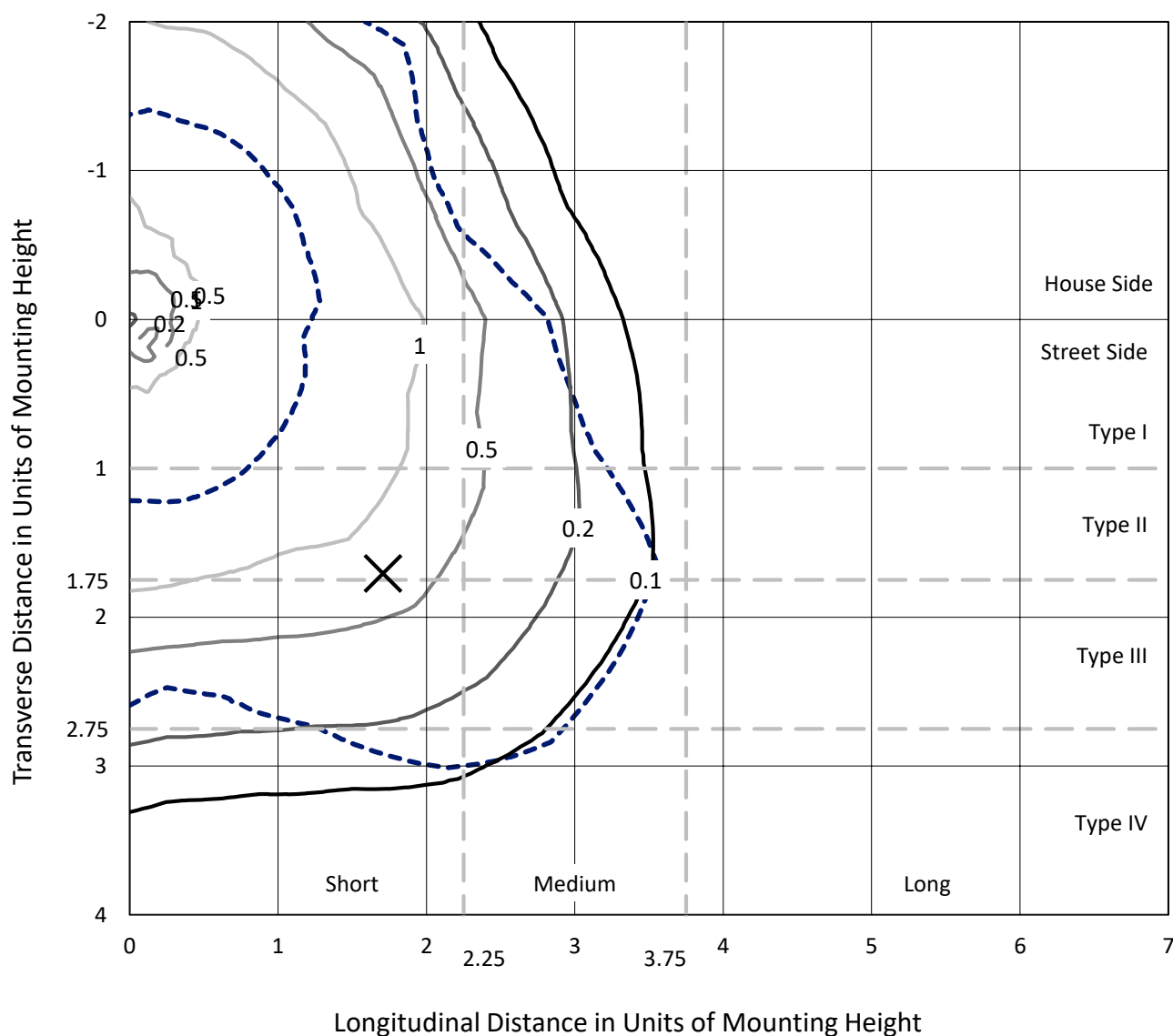


REPORT NUMBER: 768914

CATALOG NUMBER: ACN17MXX3CX6X

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

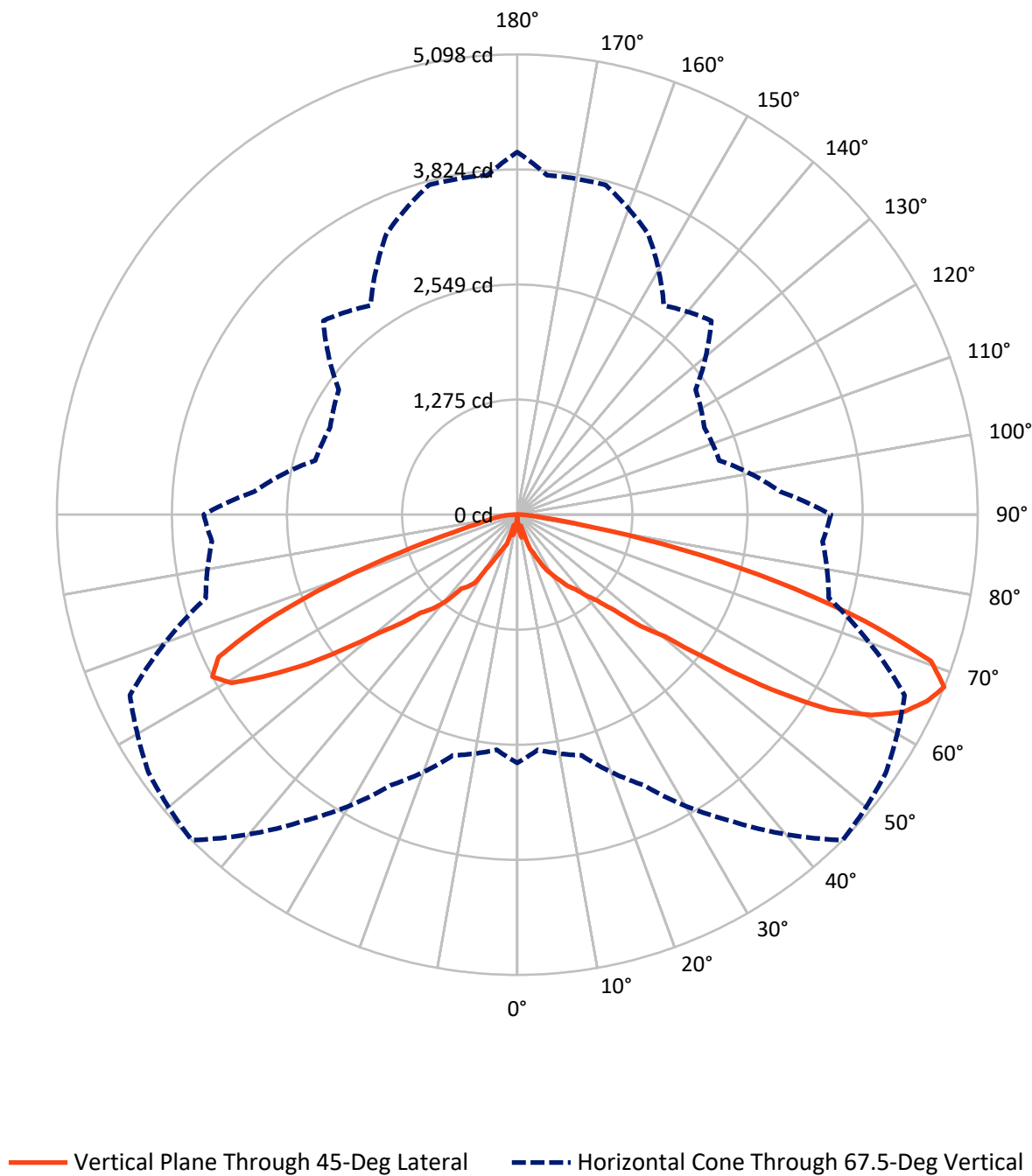


Based on 20 foot mounting height. Maximum calculated value = 1.8 fc  
 Type IV - Short - Cutoff

REPORT NUMBER: 768914

CATALOG NUMBER: ACN17MXX3CX6X

## Luminous Intensity Polar Plot



REPORT NUMBER: 768914

CATALOG NUMBER: ACN17MXX3CX6X

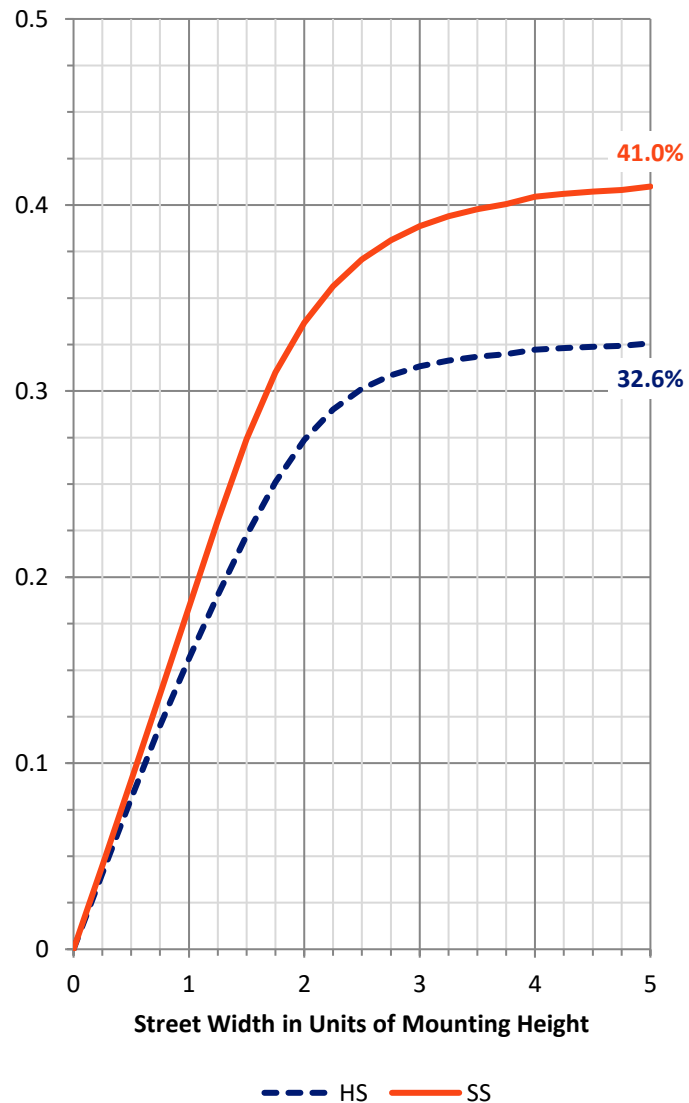
**FLUX DISTRIBUTION:**

|                    |        | Downward | Upward | Total   |
|--------------------|--------|----------|--------|---------|
| <b>House Side</b>  | Lumens | 4589.9   | 5.5    | 4595.3  |
|                    | % Lamp | 32.8     | 0.0    | 32.8    |
| <b>Street Side</b> | Lumens | 5767.3   | 9.0    | 5776.3  |
|                    | % Lamp | 41.2     | 0.1    | 41.3    |
| <b>Total</b>       | Lumens | 10357.1  | 14.5   | 10371.7 |
|                    | % Lamp | 74.0     | 0.1    | 74.1    |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture | % Lamp |
|-----------|---------|-----------|--------|
| 0°-10°    | 14.3    | 0.1       | 0.1    |
| 10°-20°   | 57.4    | 0.6       | 0.4    |
| 20°-30°   | 246.5   | 2.4       | 1.8    |
| 30°-40°   | 606.6   | 5.8       | 4.3    |
| 40°-50°   | 1252.6  | 12.1      | 8.9    |
| 50°-60°   | 2786.7  | 26.9      | 19.9   |
| 60°-70°   | 3610.5  | 34.8      | 25.8   |
| 70°-80°   | 1578.3  | 15.2      | 11.3   |
| 80°-90°   | 204.1   | 2.0       | 1.5    |
| 90°-100°  | 13.6    | 0.1       | 0.1    |
| 100°-110° | 1.6     | 0.0       | 0.0    |
| 110°-120° | 0.1     | 0.0       | 0.0    |
| 120°-130° | 0.0     | 0.0       | 0.0    |
| 130°-140° | 0.0     | 0.0       | 0.0    |
| 140°-150° | 0.0     | 0.0       | 0.0    |
| 150°-160° | 0.0     | 0.0       | 0.0    |
| 160°-170° | 0.0     | 0.0       | 0.0    |
| 170°-180° | 0.0     | 0.0       | 0.0    |
| 0°-90°    | 10357.1 | 99.9      | 74.0   |
| 0°-180°   | 10371.7 | 100.0     | 74.1   |

**Coefficient of Utilization**



REPORT NUMBER: 768914

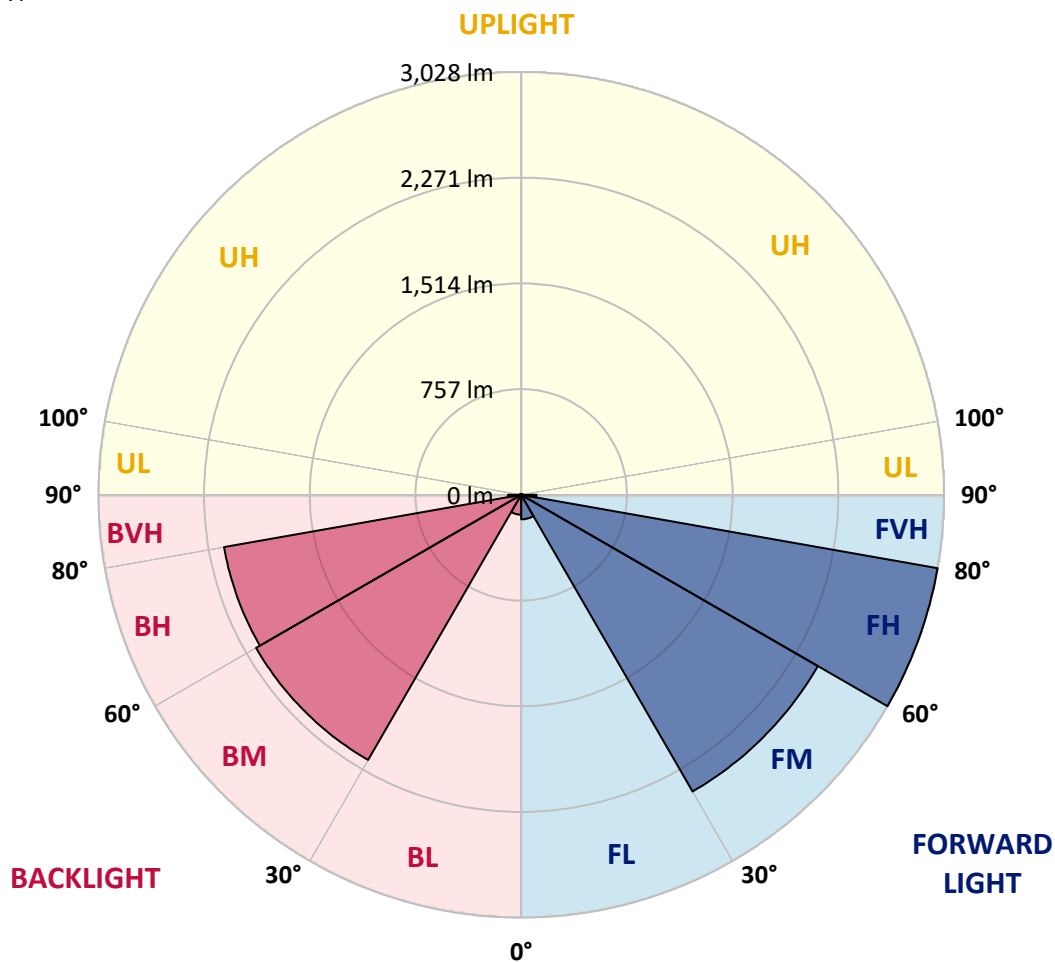
CATALOG NUMBER: ACN17MXX3CX6X

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

| Zone          |             | Lumens | % Lamp | Zone Rating/Lumen Limit |       |         |
|---------------|-------------|--------|--------|-------------------------|-------|---------|
|               |             |        |        | B                       | U     | G       |
| FL            | (0°-30°)    | 175.9  | 1.3    |                         |       |         |
| FM            | (30°-60°)   | 2453.7 | 17.5   |                         |       |         |
| FH            | (60°-80°)   | 3028.1 | 21.6   |                         |       | G2/5000 |
| FVH           | (80°-90°)   | 109.5  | 0.8    |                         |       | G2/225  |
| BL            | (0°-30°)    | 142.3  | 1.0    | B1/500                  |       |         |
| BM            | (30°-60°)   | 2192.2 | 15.7   | B2/2500                 |       |         |
| BH            | (60°-80°)   | 2160.7 | 15.4   | B3/2500                 |       | G3/2500 |
| BVH           | (80°-90°)   | 94.6   | 0.7    |                         |       | G1/100  |
| UL            | (90°-100°)  | 13.6   | 0.1    |                         | U2/50 |         |
| UH            | (100°-180°) | 5.5    | 0.0    |                         | U1/10 |         |
| Trapped Light |             | 3628.3 | 25.9   |                         |       |         |

**BUG Rating: B3-U2-G3**

Type IV Short





REPORT NUMBER: 768914

CATALOG NUMBER: ACN17MXX3CX6X

**CANDELA DISTRIBUTION (FULL):**

|       | 0°   | 5°   | 15°  | 25°  | 35°  | 45°  | 55°  | 65°  | 75°  | 85°  | 90°  |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0°    | 42   | 42   | 42   | 42   | 42   | 42   | 42   | 42   | 42   | 42   | 42   |
| 2.5°  | 73   | 68   | 73   | 68   | 63   | 58   | 63   | 58   | 63   | 52   | 47   |
| 5°    | 105  | 99   | 115  | 115  | 110  | 115  | 120  | 125  | 125  | 125  | 131  |
| 7.5°  | 157  | 162  | 199  | 204  | 209  | 209  | 209  | 214  | 204  | 173  | 162  |
| 10°   | 230  | 235  | 225  | 267  | 261  | 256  | 246  | 251  | 241  | 220  | 220  |
| 12.5° | 272  | 261  | 251  | 251  | 261  | 256  | 246  | 241  | 241  | 230  | 204  |
| 15°   | 220  | 193  | 178  | 178  | 183  | 173  | 162  | 162  | 162  | 152  | 157  |
| 17.5° | 146  | 157  | 141  | 141  | 131  | 131  | 125  | 131  | 125  | 131  | 136  |
| 20°   | 418  | 408  | 408  | 471  | 486  | 408  | 465  | 413  | 397  | 397  | 361  |
| 22.5° | 492  | 444  | 439  | 518  | 512  | 465  | 549  | 492  | 502  | 481  | 465  |
| 25°   | 544  | 539  | 512  | 539  | 575  | 580  | 654  | 627  | 580  | 680  | 607  |
| 27.5° | 617  | 601  | 580  | 627  | 633  | 695  | 727  | 722  | 669  | 685  | 612  |
| 30°   | 554  | 591  | 617  | 727  | 816  | 779  | 753  | 763  | 805  | 831  | 779  |
| 32.5° | 1014 | 831  | 810  | 868  | 858  | 868  | 952  | 936  | 941  | 983  | 946  |
| 35°   | 931  | 931  | 926  | 973  | 978  | 973  | 1061 | 1056 | 1056 | 1082 | 1072 |
| 37.5° | 1109 | 1061 | 1041 | 1035 | 1014 | 1051 | 1103 | 1135 | 1203 | 1124 | 1145 |
| 40°   | 1119 | 1156 | 1156 | 1192 | 1135 | 1176 | 1271 | 1234 | 1312 | 1297 | 1292 |
| 42.5° | 1276 | 1302 | 1292 | 1318 | 1307 | 1302 | 1391 | 1422 | 1563 | 1490 | 1454 |
| 45°   | 1495 | 1506 | 1469 | 1522 | 1537 | 1511 | 1527 | 1569 | 1715 | 1804 | 1694 |
| 47.5° | 1935 | 1903 | 1788 | 1809 | 1835 | 1846 | 1898 | 1961 | 2050 | 2186 | 1982 |
| 50°   | 2322 | 2348 | 2133 | 2144 | 2118 | 2118 | 2217 | 2243 | 2327 | 2583 | 2301 |
| 52.5° | 3012 | 2939 | 2688 | 2667 | 2614 | 2693 | 2688 | 2745 | 2824 | 3153 | 2892 |
| 55°   | 3597 | 3524 | 3216 | 3247 | 3200 | 3420 | 3326 | 3451 | 3488 | 3718 | 3514 |
| 57.5° | 3869 | 3896 | 3577 | 3801 | 3624 | 4073 | 4005 | 4209 | 3974 | 4173 | 4157 |
| 60°   | 3744 | 3697 | 3587 | 3775 | 3843 | 4507 | 4356 | 4575 | 4162 | 4445 | 4486 |
| 62.5° | 3399 | 3326 | 3320 | 3597 | 3880 | 4805 | 4727 | 4764 | 4173 | 4371 | 4502 |
| 65°   | 3022 | 2928 | 3038 | 3503 | 4052 | 4983 | 4994 | 4863 | 3974 | 3932 | 4047 |
| 67.5° | 2750 | 2614 | 2761 | 3305 | 4146 | 5098 | 4983 | 4732 | 3571 | 3394 | 3472 |
| 70°   | 2363 | 2222 | 2416 | 2944 | 3911 | 4858 | 4648 | 4371 | 3195 | 2797 | 2677 |
| 72.5° | 1851 | 1668 | 1809 | 2332 | 3352 | 4016 | 3958 | 3660 | 2583 | 2112 | 1888 |
| 75°   | 1098 | 957  | 1114 | 1569 | 2458 | 2980 | 2954 | 2818 | 1856 | 1454 | 1161 |
| 77.5° | 554  | 570  | 695  | 1030 | 1668 | 1872 | 1861 | 1809 | 1098 | 753  | 559  |
| 80°   | 251  | 246  | 376  | 654  | 858  | 826  | 779  | 722  | 460  | 350  | 335  |
| 82.5° | 146  | 141  | 209  | 277  | 309  | 324  | 303  | 309  | 272  | 241  | 230  |
| 85°   | 94   | 89   | 120  | 136  | 141  | 162  | 167  | 178  | 178  | 162  | 162  |
| 87.5° | 63   | 63   | 68   | 78   | 78   | 84   | 84   | 89   | 94   | 94   | 89   |
| 90°   | 42   | 37   | 37   | 37   | 37   | 31   | 42   | 37   | 37   | 37   | 37   |
| 95°   | 21   | 16   | 10   | 5    | 5    | 16   | 10   | 10   | 5    | 5    | 5    |
| 105°  | 0    | 5    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 115°  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 125°  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 135°  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 145°  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 155°  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 165°  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |



REPORT NUMBER: 768914  
CATALOG NUMBER: ACN17MXX3CX6X

CANDELA DISTRIBUTION (continued):

|      | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 175° | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 180° | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |



REPORT NUMBER: 768914

CATALOG NUMBER: ACN17MXX3CX6X

**CANDELA DISTRIBUTION (continued):**

|       | 95°  | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|------|------|------|------|------|------|------|------|------|------|
| 0°    | 42   | 42   | 42   | 42   | 42   | 42   | 42   | 42   | 42   | 42   |
| 2.5°  | 52   | 58   | 47   | 42   | 31   | 26   | 26   | 21   | 16   | 10   |
| 5°    | 120  | 115  | 94   | 94   | 78   | 78   | 78   | 73   | 73   | 73   |
| 7.5°  | 152  | 173  | 162  | 152  | 146  | 162  | 162  | 188  | 183  | 178  |
| 10°   | 214  | 178  | 173  | 188  | 204  | 199  | 209  | 220  | 204  | 209  |
| 12.5° | 204  | 204  | 199  | 214  | 230  | 220  | 199  | 214  | 199  | 188  |
| 15°   | 157  | 146  | 146  | 152  | 152  | 152  | 125  | 136  | 105  | 115  |
| 17.5° | 125  | 120  | 125  | 120  | 120  | 105  | 115  | 99   | 89   | 73   |
| 20°   | 371  | 340  | 319  | 329  | 340  | 340  | 314  | 303  | 282  | 314  |
| 22.5° | 465  | 460  | 397  | 397  | 387  | 371  | 329  | 340  | 314  | 335  |
| 25°   | 512  | 544  | 512  | 481  | 455  | 460  | 397  | 397  | 376  | 376  |
| 27.5° | 622  | 664  | 601  | 570  | 554  | 554  | 460  | 460  | 444  | 429  |
| 30°   | 779  | 716  | 669  | 638  | 685  | 648  | 539  | 486  | 460  | 439  |
| 32.5° | 915  | 957  | 905  | 941  | 894  | 884  | 753  | 680  | 669  | 648  |
| 35°   | 1046 | 1051 | 967  | 973  | 967  | 946  | 863  | 763  | 706  | 701  |
| 37.5° | 1103 | 1140 | 1109 | 1098 | 1025 | 1041 | 1025 | 878  | 810  | 763  |
| 40°   | 1297 | 1244 | 1229 | 1218 | 1244 | 1213 | 1145 | 1051 | 931  | 868  |
| 42.5° | 1506 | 1480 | 1480 | 1438 | 1401 | 1386 | 1271 | 1213 | 1109 | 1077 |
| 45°   | 1694 | 1658 | 1631 | 1631 | 1522 | 1537 | 1427 | 1349 | 1250 | 1224 |
| 47.5° | 2003 | 2008 | 2008 | 1945 | 1767 | 1699 | 1637 | 1584 | 1464 | 1443 |
| 50°   | 2207 | 2186 | 2259 | 2118 | 2013 | 1861 | 1799 | 1731 | 1658 | 1673 |
| 52.5° | 2567 | 2604 | 2620 | 2384 | 2390 | 2238 | 2165 | 2144 | 2039 | 2144 |
| 55°   | 3043 | 3163 | 2907 | 2865 | 2839 | 2719 | 2672 | 2787 | 2562 | 2792 |
| 57.5° | 3472 | 3493 | 3064 | 3310 | 3258 | 3273 | 3268 | 3514 | 3247 | 3629 |
| 60°   | 3859 | 3561 | 3143 | 3493 | 3671 | 3713 | 3843 | 4094 | 3943 | 4528 |
| 62.5° | 3796 | 3289 | 2944 | 3352 | 3822 | 3833 | 4141 | 4460 | 4314 | 4936 |
| 65°   | 3373 | 2850 | 2714 | 2980 | 3665 | 3529 | 4021 | 4450 | 4377 | 4769 |
| 67.5° | 2923 | 2316 | 2285 | 2411 | 3038 | 2829 | 3430 | 3780 | 3775 | 4016 |
| 70°   | 2269 | 1678 | 1658 | 1715 | 2217 | 1997 | 2557 | 2750 | 2876 | 2918 |
| 72.5° | 1605 | 1129 | 1124 | 1093 | 1354 | 1171 | 1501 | 1652 | 1731 | 1726 |
| 75°   | 941  | 685  | 664  | 638  | 727  | 648  | 763  | 842  | 878  | 889  |
| 77.5° | 481  | 455  | 444  | 429  | 439  | 418  | 476  | 507  | 512  | 523  |
| 80°   | 309  | 303  | 303  | 314  | 319  | 303  | 335  | 371  | 361  | 376  |
| 82.5° | 220  | 230  | 225  | 230  | 251  | 235  | 261  | 282  | 272  | 282  |
| 85°   | 146  | 162  | 162  | 173  | 167  | 173  | 178  | 193  | 162  | 167  |
| 87.5° | 94   | 99   | 115  | 105  | 110  | 99   | 99   | 99   | 84   | 84   |
| 90°   | 37   | 37   | 42   | 42   | 42   | 37   | 31   | 26   | 21   | 21   |
| 95°   | 5    | 5    | 5    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 105°  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 115°  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 125°  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 135°  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 145°  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 155°  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 165°  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |



REPORT NUMBER: 768914

CATALOG NUMBER: ACN17MXX3CX6X

**CANDELA DISTRIBUTION (continued):**

|      | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|------|-----|------|------|------|------|------|------|------|------|------|
| 175° | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 180° | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

(END OF REPORT)