

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: **ACN17MXX33X1X**

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: ACN17MXX33X1X
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

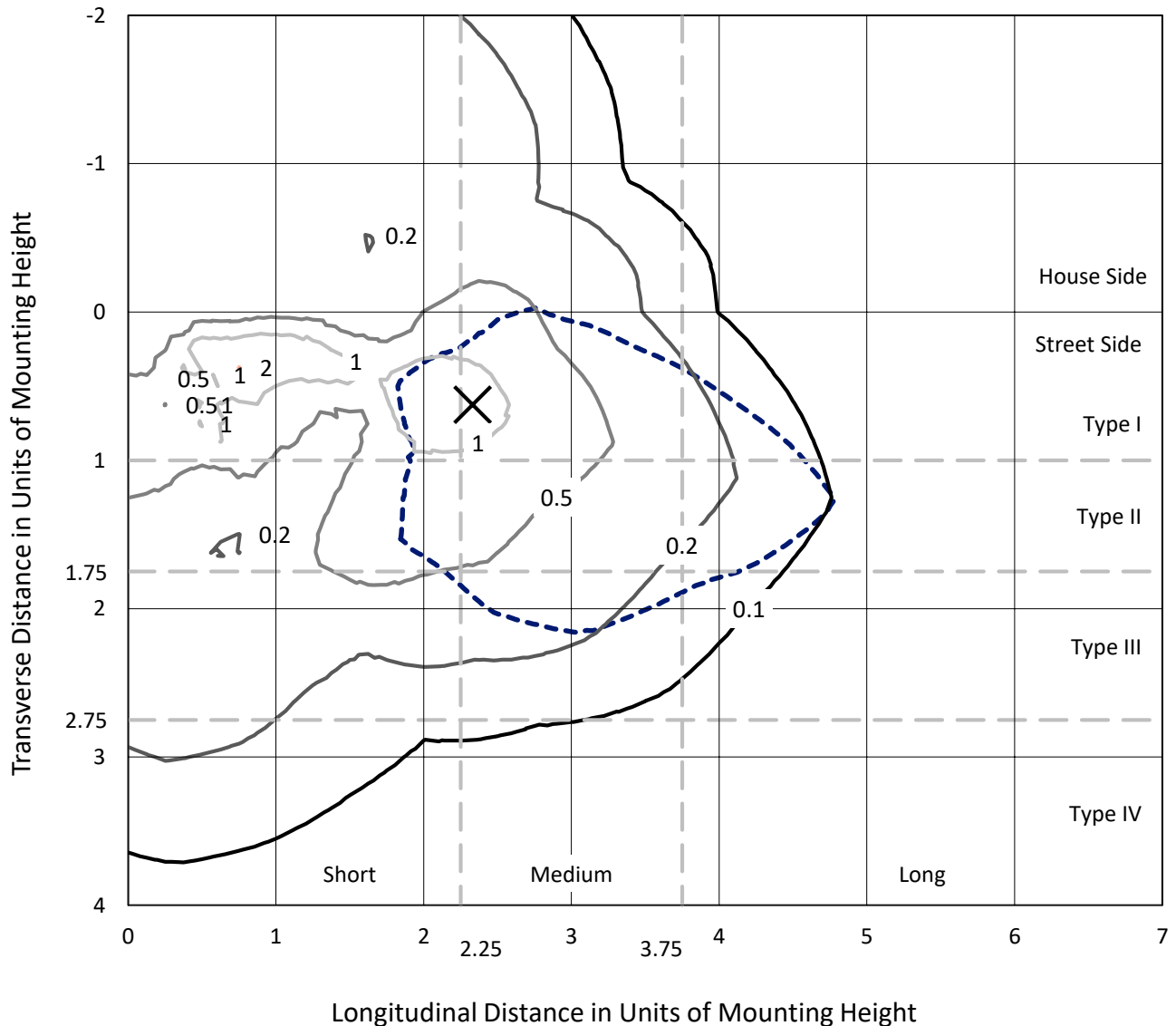
Input Watts (W): 175
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: 768062
 CATALOG NUMBER: ACN17MXX33X1X

Iso-Footcandle Lines of Horizontal Illumination

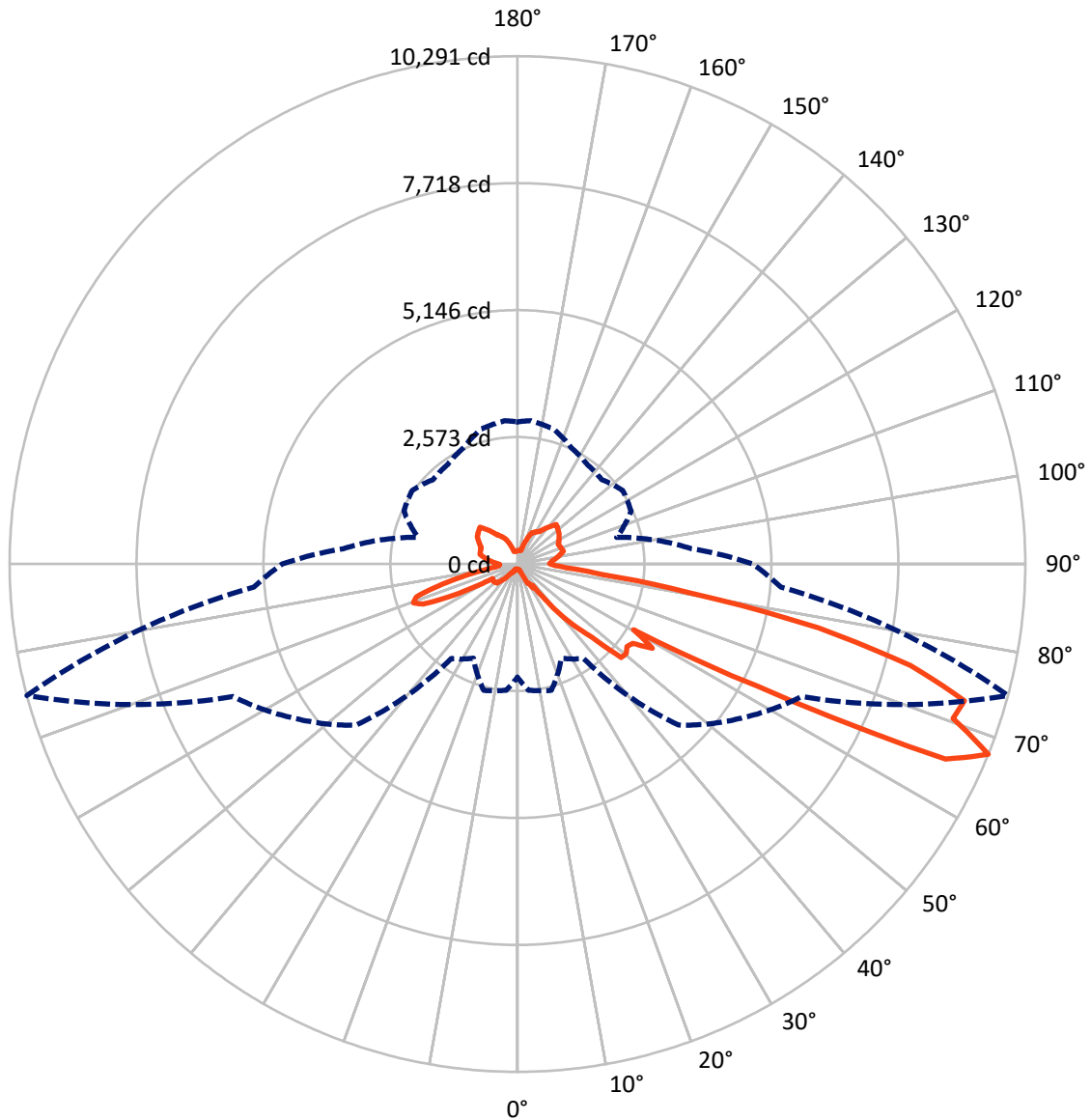
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: 768062
CATALOG NUMBER: ACN17MXX33X1X

Luminous Intensity Polar Plot



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



REPORT NUMBER: 768062

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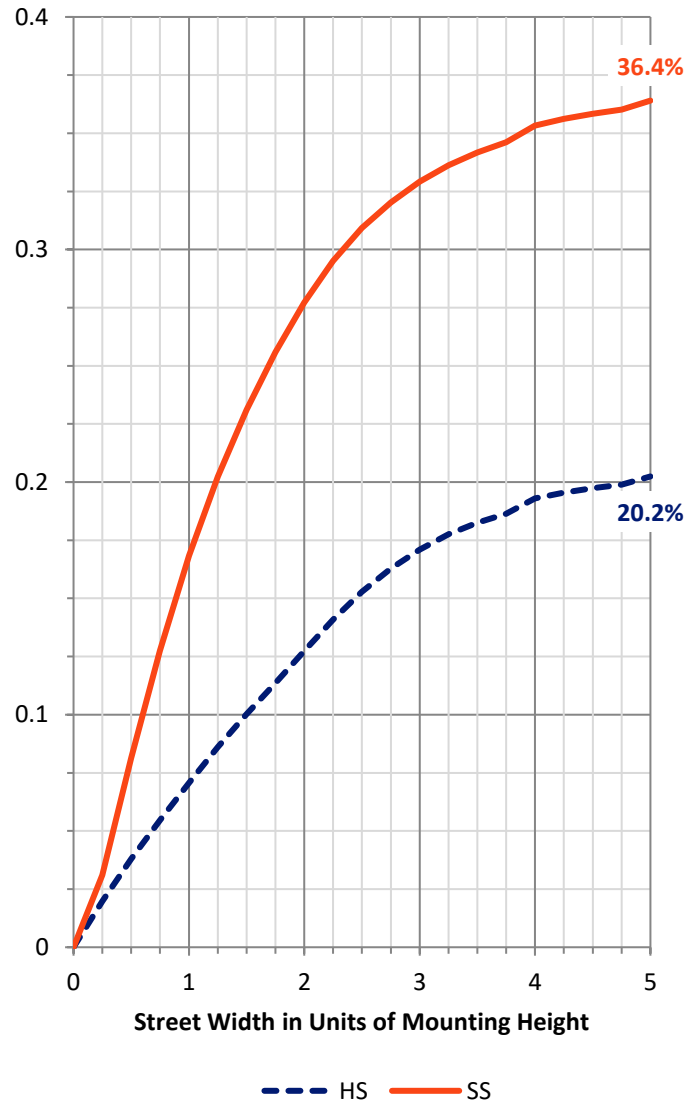
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|--------|----------|--------|---------|
| House Side | Lumens | 2922.8 | 2219.9 | 5142.7 |
| | % Lamp | 20.9 | 15.9 | 36.7 |
| Street Side | Lumens | 5234.4 | 2537.8 | 7772.2 |
| | % Lamp | 37.4 | 18.1 | 55.5 |
| Total | 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 |



REPORT NUMBER: 768062

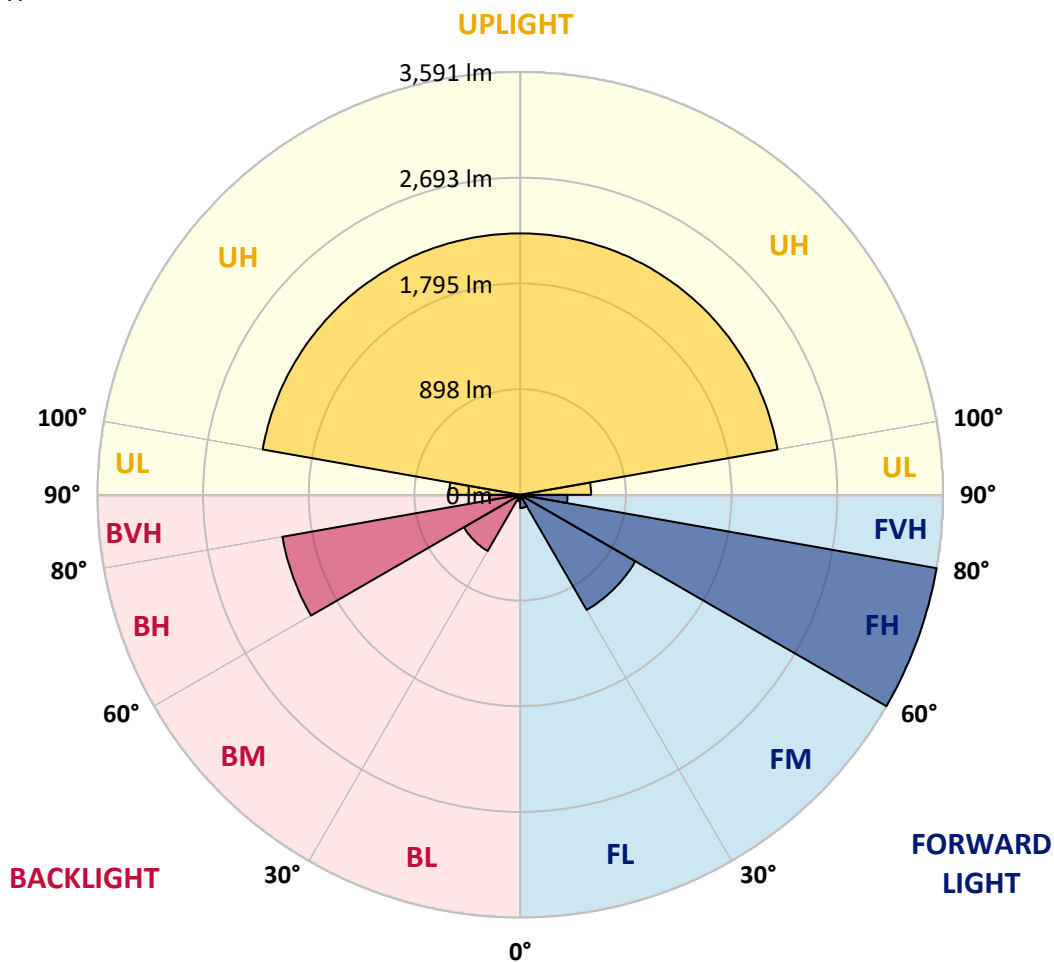
CATALOG NUMBER: ACN17MXX33X1X

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





REPORT NUMBER: 768062

CATALOG NUMBER: ACN17MXX33X1X

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 |



REPORT NUMBER: 768062

CATALOG NUMBER: ACN17MXX33X1X

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 |



REPORT NUMBER: 768062

CATALOG NUMBER: ACN17MXX33X1X

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 |



REPORT NUMBER: 768062

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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)