

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: 768227 \_150MP

Luminaire Tested: **ARC15PXX33X1XR**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: 768227 \_150MP  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARC15PXX33X1XR  
Description: REFRACTIVE GLOBE TYPE III  
ACRLYIC WITH CLEAR TOP  
AND DOWNLIGHT REFLECTOR  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 14000 (1 lamp)  
Luminaire Lumens: 12539.9 lumens  
Efficiency: 89.6%  
Efficacy: 67.8 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type II - Medium - Non-Cutoff  
BUG Rating: B4 - U5 - G4

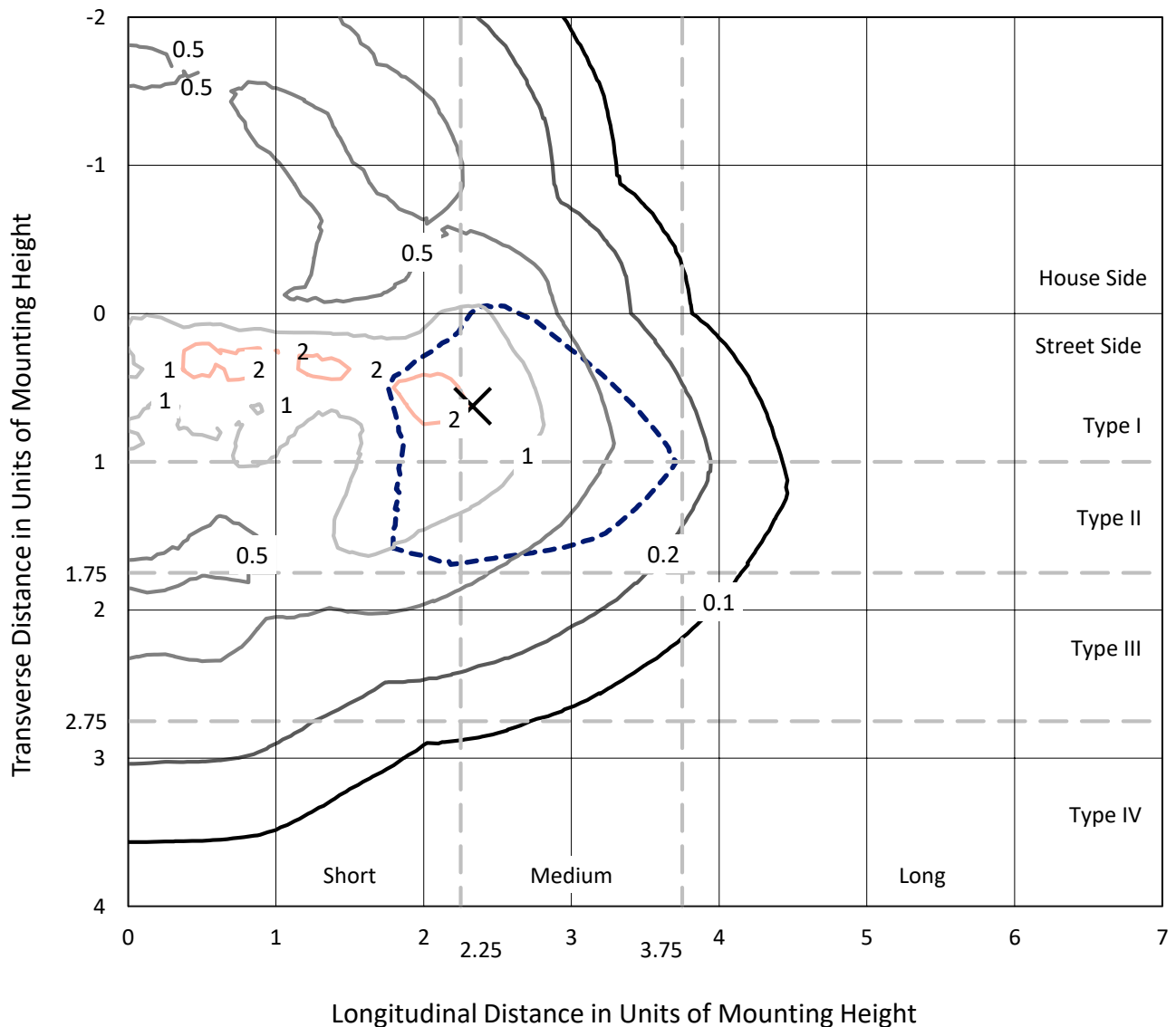
Input Watts (W): 185  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: 768227 \_150MP  
 CATALOG NUMBER: ARC15PXX33X1XR

### Iso-Footcandle Lines of Horizontal Illumination

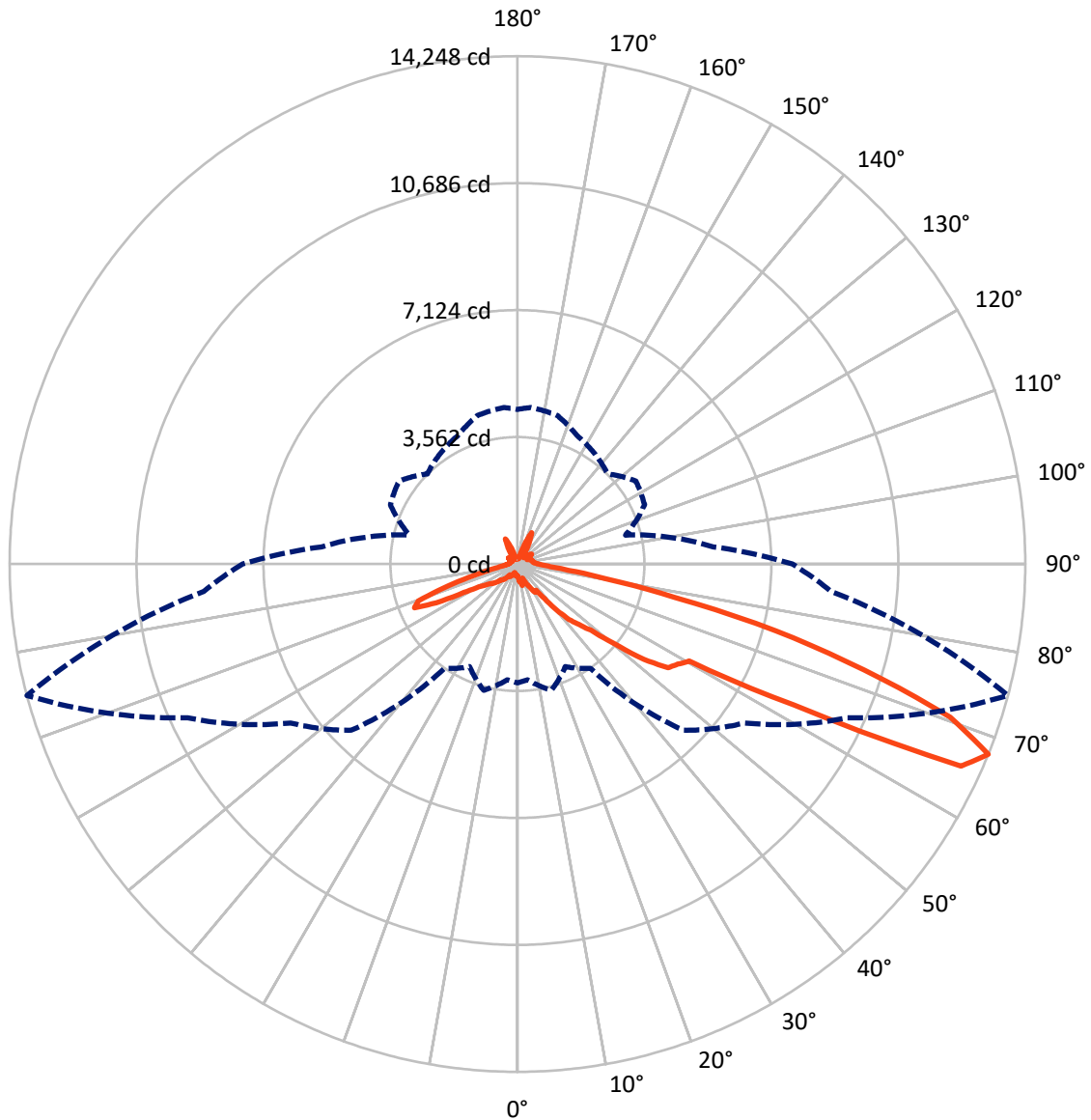
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.7 fc  
 Type II - Medium - Non-Cutoff

REPORT NUMBER: 768227 \_150MP  
CATALOG NUMBER: ARC15PXX33X1XR

### Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: ARC15PXX33X1XR

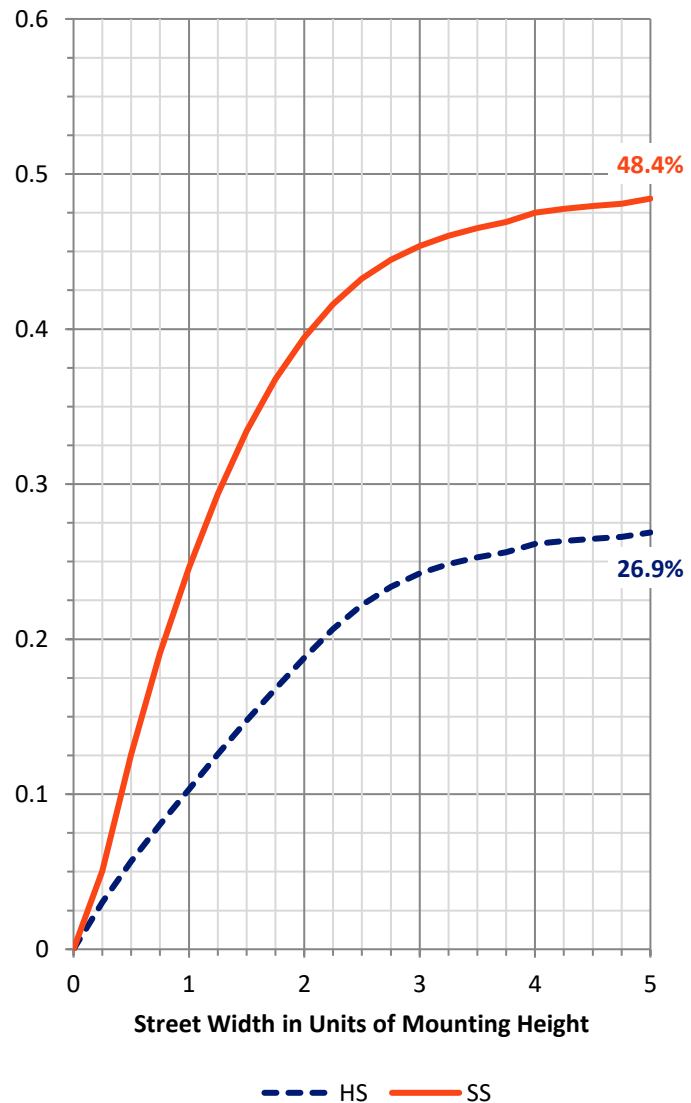
**FLUX DISTRIBUTION:**

|                    |        | Downward | Upward | Total   |
|--------------------|--------|----------|--------|---------|
| <b>House Side</b>  | Lumens | 3842.8   | 779.1  | 4621.9  |
|                    | % Lamp | 27.4     | 5.6    | 33.0    |
| <b>Street Side</b> | Lumens | 6907.7   | 1010.3 | 7918.0  |
|                    | % Lamp | 49.3     | 7.2    | 56.6    |
| <b>Total</b>       | Lumens | 10750.5  | 1789.4 | 12539.9 |
|                    | % Lamp | 76.8     | 12.8   | 89.6    |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture | % Lamp |
|-----------|---------|-----------|--------|
| 0°-10°    | 37.4    | 0.3       | 0.3    |
| 10°-20°   | 118.8   | 0.9       | 0.8    |
| 20°-30°   | 259.7   | 2.1       | 1.9    |
| 30°-40°   | 459.9   | 3.7       | 3.3    |
| 40°-50°   | 755.3   | 6.0       | 5.4    |
| 50°-60°   | 1420.4  | 11.3      | 10.1   |
| 60°-70°   | 4138.9  | 33.0      | 29.6   |
| 70°-80°   | 2963.8  | 23.6      | 21.2   |
| 80°-90°   | 596.4   | 4.8       | 4.3    |
| 90°-100°  | 326.1   | 2.6       | 2.3    |
| 100°-110° | 275.0   | 2.2       | 2.0    |
| 110°-120° | 245.5   | 2.0       | 1.8    |
| 120°-130° | 227.6   | 1.8       | 1.6    |
| 130°-140° | 176.2   | 1.4       | 1.3    |
| 140°-150° | 221.3   | 1.8       | 1.6    |
| 150°-160° | 218.3   | 1.7       | 1.6    |
| 160°-170° | 82.3    | 0.7       | 0.6    |
| 170°-180° | 13.0    | 0.1       | 0.1    |
| 0°-90°    | 10750.5 | 85.7      | 76.8   |
| 0°-180°   | 12539.9 | 100.0     | 89.6   |

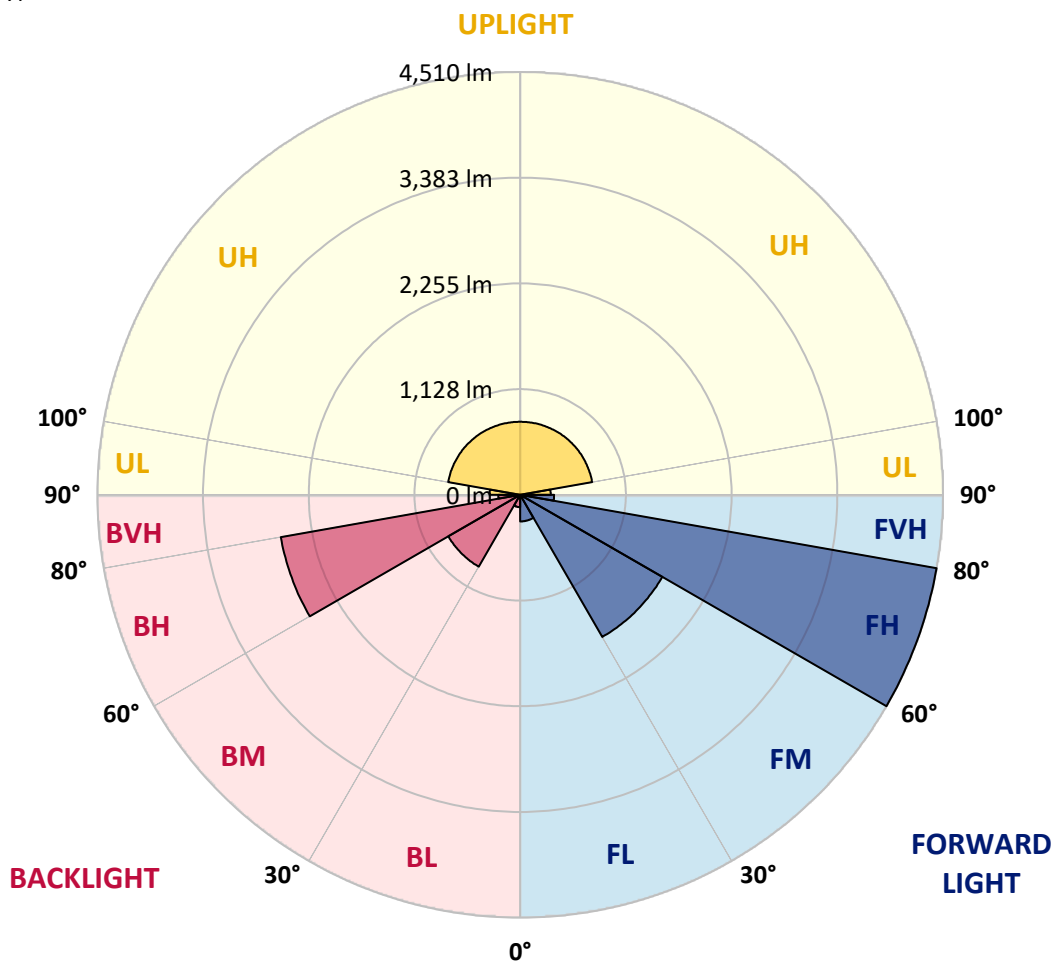


REPORT NUMBER: 768227 \_150MP  
 CATALOG NUMBER: ARC15PXX33X1XR

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

| Zone           | Lumens | % Lamp | Zone Rating/Lumen Limit |         |         |
|----------------|--------|--------|-------------------------|---------|---------|
|                |        |        | B                       | U       | G       |
| FL (0°-30°)    | 284.0  | 2.0    |                         |         |         |
| FM (30°-60°)   | 1750.9 | 12.5   |                         |         |         |
| FH (60°-80°)   | 4510.3 | 32.2   |                         |         | G2/5000 |
| FVH (80°-90°)  | 362.4  | 2.6    |                         |         | G3/500  |
| BL (0°-30°)    | 131.8  | 0.9    | B1/500                  |         |         |
| BM (30°-60°)   | 884.7  | 6.3    | B1/1000                 |         |         |
| BH (60°-80°)   | 2592.4 | 18.5   | B4/5000                 |         | G4/5000 |
| BVH (80°-90°)  | 234.0  | 1.7    |                         |         | G3/500  |
| UL (90°-100°)  | 326.1  | 2.3    |                         | U3/500  |         |
| UH (100°-180°) | 779.1  | 5.6    |                         | U4/1000 |         |
| Trapped Light  | 1460.1 | 10.4   |                         |         |         |

**BUG Rating: B4-U5-G4**  
 Type II Medium





REPORT NUMBER: 768227 \_150MP  
 CATALOG NUMBER: ARC15PXX33X1XR

**CANDELA DISTRIBUTION (FULL):**

|       | 0°   | 5°   | 15°  | 25°  | 35°  | 45°  | 55°  | 65°   | 75°   | 85°  | 90°  |
|-------|------|------|------|------|------|------|------|-------|-------|------|------|
| 0°    | 341  | 341  | 341  | 341  | 341  | 341  | 341  | 341   | 341   | 341  | 341  |
| 2.5°  | 399  | 399  | 399  | 399  | 394  | 389  | 379  | 375   | 360   | 345  | 336  |
| 5°    | 438  | 443  | 462  | 501  | 530  | 535  | 516  | 491   | 457   | 423  | 399  |
| 7.5°  | 448  | 452  | 501  | 584  | 647  | 671  | 647  | 593   | 516   | 423  | 394  |
| 10°   | 389  | 399  | 467  | 530  | 603  | 632  | 623  | 574   | 496   | 399  | 365  |
| 12.5° | 467  | 486  | 603  | 720  | 885  | 987  | 958  | 788   | 618   | 496  | 438  |
| 15°   | 409  | 418  | 506  | 598  | 705  | 754  | 686  | 584   | 462   | 365  | 336  |
| 17.5° | 389  | 404  | 438  | 540  | 671  | 671  | 618  | 525   | 423   | 336  | 297  |
| 20°   | 399  | 409  | 438  | 574  | 652  | 705  | 676  | 555   | 428   | 341  | 316  |
| 22.5° | 477  | 482  | 491  | 623  | 725  | 871  | 900  | 744   | 530   | 389  | 350  |
| 25°   | 574  | 569  | 555  | 666  | 846  | 1056 | 1143 | 987   | 652   | 433  | 384  |
| 27.5° | 739  | 730  | 686  | 744  | 963  | 1148 | 1240 | 1211  | 725   | 462  | 409  |
| 30°   | 720  | 696  | 671  | 696  | 953  | 1313 | 1454 | 1639  | 880   | 506  | 433  |
| 32.5° | 730  | 710  | 652  | 696  | 1041 | 1255 | 1591 | 1849  | 949   | 555  | 486  |
| 35°   | 564  | 555  | 525  | 550  | 783  | 958  | 1075 | 1518  | 905   | 540  | 448  |
| 37.5° | 808  | 778  | 705  | 715  | 1085 | 1197 | 1236 | 2082  | 1231  | 535  | 433  |
| 40°   | 1022 | 963  | 866  | 866  | 1270 | 1377 | 1372 | 2559  | 1712  | 579  | 491  |
| 42.5° | 1022 | 973  | 842  | 856  | 1250 | 1304 | 1274 | 2374  | 2126  | 657  | 555  |
| 45°   | 915  | 910  | 803  | 773  | 1075 | 1104 | 1075 | 1771  | 2427  | 769  | 613  |
| 47.5° | 973  | 963  | 851  | 842  | 1211 | 1289 | 1265 | 1610  | 2773  | 949  | 671  |
| 50°   | 1226 | 1226 | 1095 | 1046 | 1532 | 1581 | 1605 | 1824  | 3483  | 1240 | 846  |
| 52.5° | 1518 | 1459 | 1240 | 1167 | 1800 | 1892 | 1883 | 2043  | 4446  | 1566 | 1022 |
| 55°   | 1537 | 1450 | 1231 | 1202 | 1873 | 2058 | 2048 | 2228  | 5132  | 1960 | 1240 |
| 57.5° | 1440 | 1440 | 1270 | 1129 | 1741 | 1892 | 1960 | 2359  | 5302  | 2413 | 1625 |
| 60°   | 1440 | 1416 | 1450 | 1289 | 1868 | 2281 | 2495 | 2972  | 5531  | 2924 | 2243 |
| 62.5° | 2101 | 2033 | 2140 | 1912 | 2831 | 3814 | 4310 | 4903  | 8693  | 3804 | 3079 |
| 65°   | 3045 | 2953 | 3235 | 2821 | 3682 | 6076 | 6470 | 8104  | 13674 | 6455 | 5507 |
| 67.5° | 3337 | 3259 | 3668 | 3177 | 3575 | 6596 | 7773 | 10211 | 14248 | 8834 | 7710 |
| 70°   | 3123 | 3084 | 3444 | 3011 | 3177 | 5331 | 7705 | 10439 | 12881 | 8445 | 6669 |
| 72.5° | 2403 | 2403 | 2627 | 2354 | 2374 | 3833 | 5760 | 8479  | 10167 | 6353 | 4359 |
| 75°   | 1887 | 1912 | 2048 | 1824 | 1780 | 2802 | 4261 | 6280  | 7472  | 4208 | 2583 |
| 77.5° | 1206 | 1245 | 1299 | 1197 | 1158 | 1722 | 2627 | 3707  | 4524  | 2466 | 1508 |
| 80°   | 710  | 739  | 788  | 735  | 735  | 1046 | 1562 | 2082  | 2515  | 1518 | 992  |
| 82.5° | 467  | 482  | 511  | 491  | 496  | 671  | 944  | 1221  | 1445  | 997  | 691  |
| 85°   | 370  | 384  | 399  | 384  | 384  | 491  | 657  | 808   | 924   | 720  | 521  |
| 87.5° | 321  | 326  | 345  | 336  | 341  | 413  | 521  | 613   | 681   | 574  | 433  |
| 90°   | 292  | 297  | 306  | 311  | 321  | 365  | 438  | 501   | 564   | 482  | 350  |
| 95°   | 233  | 243  | 253  | 253  | 248  | 277  | 336  | 394   | 448   | 365  | 268  |
| 105°  | 233  | 243  | 238  | 224  | 224  | 258  | 297  | 355   | 413   | 316  | 258  |
| 115°  | 175  | 175  | 175  | 165  | 161  | 170  | 195  | 272   | 292   | 199  | 190  |
| 125°  | 311  | 341  | 336  | 360  | 336  | 384  | 423  | 496   | 486   | 341  | 282  |
| 135°  | 175  | 175  | 175  | 161  | 156  | 156  | 175  | 326   | 243   | 156  | 146  |
| 145°  | 311  | 326  | 316  | 336  | 306  | 326  | 287  | 360   | 306   | 209  | 190  |
| 155°  | 924  | 880  | 866  | 900  | 978  | 866  | 987  | 939   | 968   | 783  | 574  |
| 165°  | 156  | 161  | 151  | 161  | 165  | 156  | 170  | 161   | 151   | 126  | 126  |



REPORT NUMBER: 768227 \_150MP  
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**CANDELA DISTRIBUTION (continued):**

|      | 0°  | 5°  | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 175° | 156 | 161 | 151 | 161 | 165 | 156 | 170 | 161 | 151 | 126 | 126 |
| 180° | 136 | 136 | 136 | 136 | 136 | 136 | 136 | 136 | 136 | 136 | 136 |





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**CANDELA DISTRIBUTION (continued):**

|       | 95°  | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|------|------|------|------|------|------|------|------|------|------|
| 0°    | 341  | 341  | 341  | 341  | 341  | 341  | 341  | 341  | 341  | 341  |
| 2.5°  | 336  | 321  | 311  | 302  | 297  | 287  | 282  | 277  | 277  | 282  |
| 5°    | 379  | 341  | 311  | 287  | 277  | 268  | 268  | 263  | 253  | 253  |
| 7.5°  | 365  | 321  | 282  | 263  | 248  | 238  | 233  | 233  | 238  | 243  |
| 10°   | 336  | 292  | 268  | 253  | 238  | 233  | 233  | 238  | 233  | 243  |
| 12.5° | 394  | 326  | 287  | 268  | 258  | 253  | 258  | 258  | 263  | 263  |
| 15°   | 311  | 282  | 263  | 248  | 243  | 243  | 248  | 258  | 263  | 263  |
| 17.5° | 277  | 253  | 243  | 238  | 238  | 243  | 253  | 258  | 263  | 263  |
| 20°   | 287  | 263  | 253  | 253  | 258  | 263  | 268  | 263  | 268  | 263  |
| 22.5° | 331  | 302  | 297  | 297  | 302  | 297  | 302  | 297  | 287  | 282  |
| 25°   | 355  | 336  | 336  | 345  | 365  | 375  | 379  | 370  | 341  | 341  |
| 27.5° | 375  | 365  | 370  | 384  | 399  | 399  | 394  | 379  | 360  | 360  |
| 30°   | 404  | 399  | 413  | 428  | 433  | 423  | 418  | 418  | 409  | 409  |
| 32.5° | 438  | 418  | 428  | 448  | 467  | 462  | 457  | 452  | 452  | 457  |
| 35°   | 399  | 370  | 389  | 404  | 409  | 423  | 433  | 438  | 433  | 438  |
| 37.5° | 418  | 428  | 457  | 467  | 467  | 467  | 462  | 467  | 462  | 457  |
| 40°   | 486  | 525  | 545  | 540  | 550  | 545  | 540  | 535  | 525  | 525  |
| 42.5° | 545  | 589  | 598  | 584  | 598  | 593  | 589  | 584  | 589  | 593  |
| 45°   | 569  | 618  | 618  | 598  | 623  | 608  | 618  | 613  | 637  | 632  |
| 47.5° | 613  | 681  | 681  | 652  | 686  | 705  | 710  | 686  | 681  | 691  |
| 50°   | 735  | 803  | 822  | 769  | 822  | 851  | 856  | 837  | 803  | 827  |
| 52.5° | 842  | 880  | 953  | 915  | 944  | 973  | 1046 | 968  | 958  | 983  |
| 55°   | 934  | 953  | 1075 | 1056 | 1065 | 1060 | 1163 | 1143 | 1129 | 1148 |
| 57.5° | 1138 | 1090 | 1221 | 1202 | 1211 | 1202 | 1313 | 1304 | 1240 | 1236 |
| 60°   | 1450 | 1255 | 1435 | 1450 | 1411 | 1440 | 1581 | 1591 | 1489 | 1459 |
| 62.5° | 2092 | 1703 | 2048 | 2136 | 2024 | 2121 | 2291 | 2340 | 2228 | 2218 |
| 65°   | 3668 | 2525 | 3138 | 3279 | 2997 | 3069 | 3245 | 3512 | 3473 | 3464 |
| 67.5° | 5516 | 3138 | 3935 | 4057 | 3575 | 3780 | 3969 | 4315 | 4407 | 4339 |
| 70°   | 5711 | 2972 | 3673 | 3765 | 3366 | 3614 | 3775 | 4115 | 4339 | 4203 |
| 72.5° | 4198 | 2184 | 2646 | 2710 | 2495 | 2530 | 2666 | 2919 | 3162 | 3113 |
| 75°   | 2427 | 1435 | 1703 | 1761 | 1688 | 1678 | 1703 | 1839 | 1975 | 1965 |
| 77.5° | 1425 | 915  | 1075 | 1095 | 1080 | 1070 | 1080 | 1133 | 1192 | 1187 |
| 80°   | 953  | 613  | 681  | 676  | 657  | 652  | 662  | 676  | 715  | 710  |
| 82.5° | 676  | 438  | 477  | 467  | 452  | 448  | 462  | 486  | 516  | 516  |
| 85°   | 511  | 355  | 375  | 365  | 360  | 360  | 375  | 394  | 418  | 418  |
| 87.5° | 423  | 297  | 321  | 316  | 311  | 316  | 321  | 341  | 365  | 360  |
| 90°   | 350  | 268  | 287  | 282  | 287  | 287  | 302  | 316  | 336  | 331  |
| 95°   | 272  | 219  | 243  | 243  | 248  | 248  | 258  | 268  | 282  | 282  |
| 105°  | 268  | 224  | 248  | 282  | 316  | 326  | 306  | 306  | 321  | 321  |
| 115°  | 165  | 165  | 175  | 170  | 170  | 175  | 175  | 180  | 175  | 175  |
| 125°  | 302  | 302  | 326  | 287  | 302  | 277  | 238  | 229  | 209  | 204  |
| 135°  | 156  | 151  | 156  | 146  | 146  | 136  | 141  | 136  | 131  | 136  |
| 145°  | 209  | 190  | 185  | 180  | 190  | 180  | 180  | 165  | 156  | 165  |
| 155°  | 739  | 783  | 735  | 613  | 618  | 535  | 521  | 491  | 428  | 467  |
| 165°  | 136  | 141  | 136  | 122  | 107  | 107  | 97   | 97   | 107  | 107  |



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**CANDELA DISTRIBUTION (continued):**

|      | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|------|-----|------|------|------|------|------|------|------|------|------|
| 175° | 136 | 141  | 136  | 122  | 107  | 107  | 97   | 97   | 107  | 107  |
| 180° | 136 | 136  | 136  | 136  | 136  | 136  | 136  | 136  | 136  | 136  |

(END OF REPORT)