

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: 768740\_150MP

Luminaire Tested: **ARC15PXX5511X**

Issue Date: 3/3/2020

### Test Information

Test Method: LM-46-04  
Report Number: 768740\_150MP  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARC15PXX5511X  
Description: 175WATT MH TYPE V REFRACTIVE GLOBE  
W/CLEAR TOP & CAGE  
Light Source: 150 WATT PULSE-START CLEAR ED-28 VBD BURN  
Ballast/Driver: -

### Summary

Lumens per Lamp: 14000 (1 lamp)  
Luminaire Lumens: 10379.9 lumens  
Efficiency: 74.1%  
Efficacy: 56.1 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type V - Medium - Non-Cutoff  
BUG Rating: B3 - U5 - G3

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



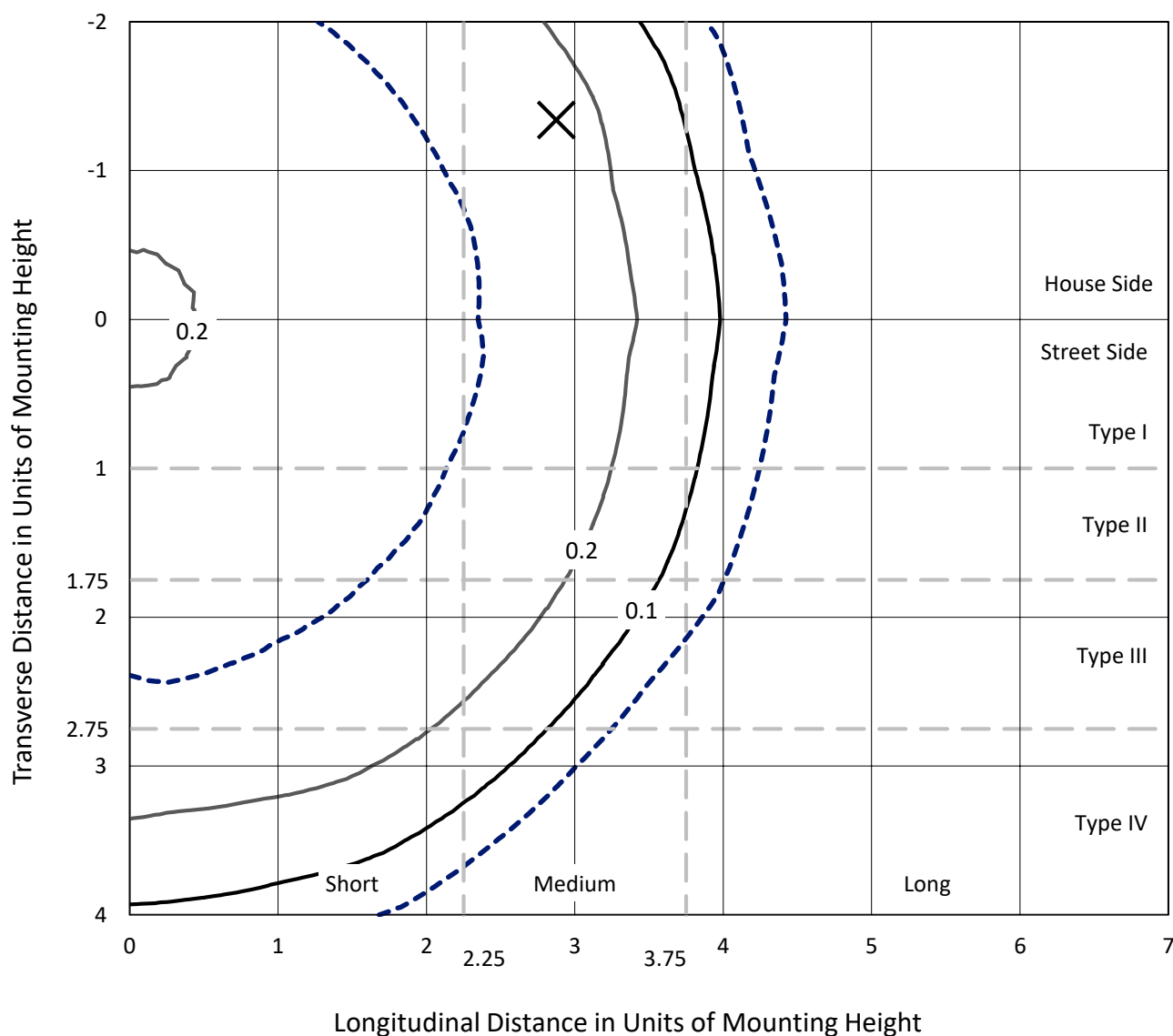
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

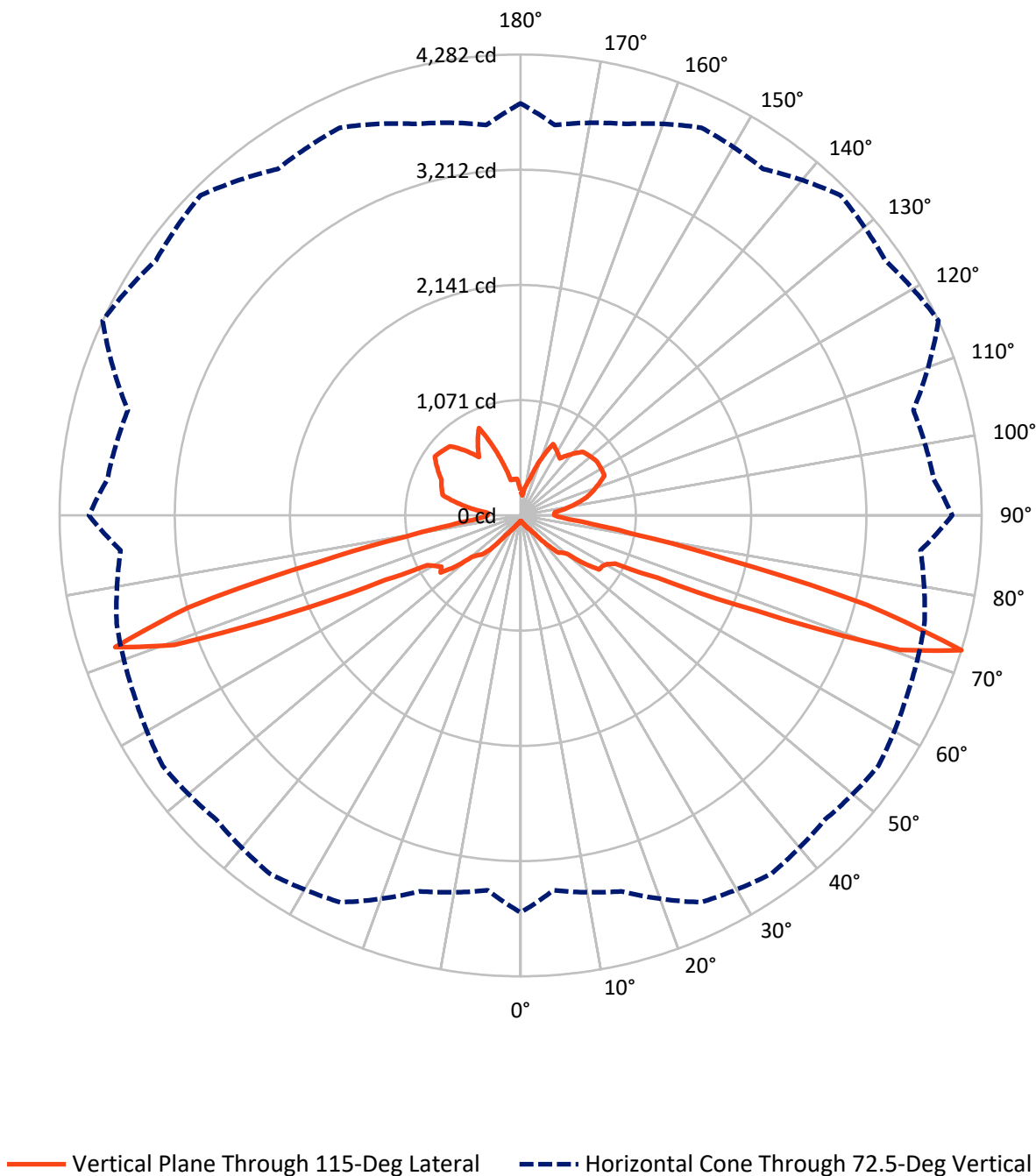
--- 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 0.5 fc  
 Type V - Medium - Non-Cutoff

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## Luminous Intensity Polar Plot



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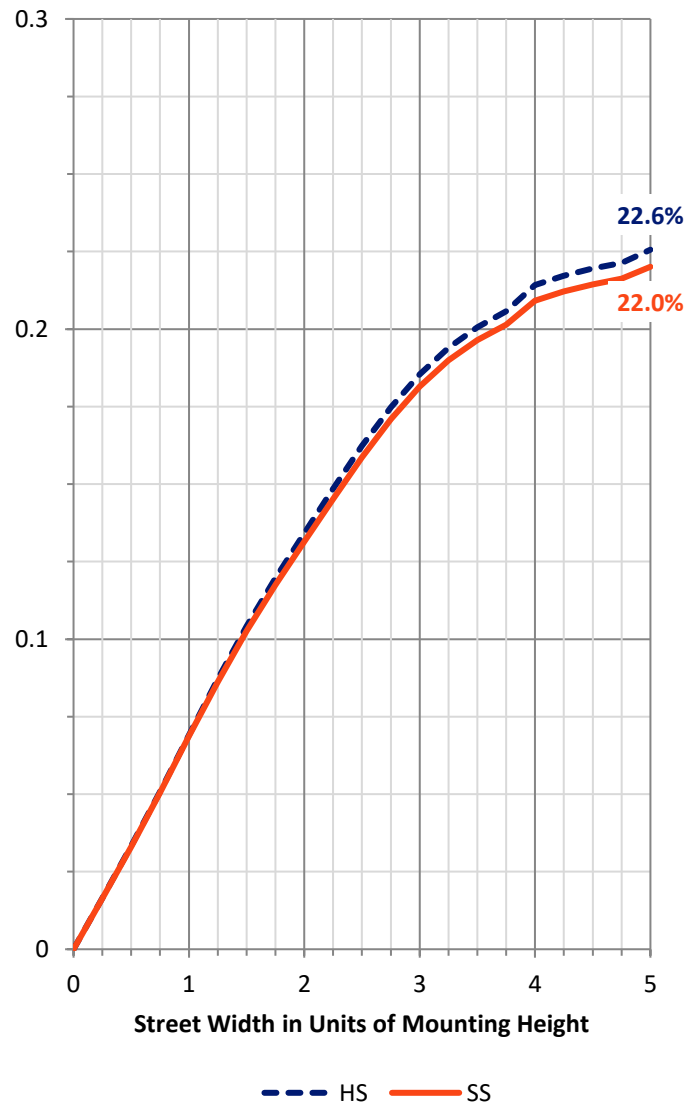
**FLUX DISTRIBUTION:**

|                    |        | Downward | Upward | Total   |
|--------------------|--------|----------|--------|---------|
| <b>House Side</b>  | Lumens | 3228.6   | 1935.5 | 5164.1  |
|                    | % Lamp | 23.1     | 13.8   | 36.9    |
| <b>Street Side</b> | Lumens | 3191.9   | 2023.9 | 5215.7  |
|                    | % Lamp | 22.8     | 14.5   | 37.3    |
| <b>Total</b>       | Lumens | 6420.5   | 3959.4 | 10379.9 |
|                    | % Lamp | 45.9     | 28.3   | 74.1    |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture | % Lamp |
|-----------|---------|-----------|--------|
| 0°-10°    | 5.4     | 0.1       | 0.0    |
| 10°-20°   | 21.6    | 0.2       | 0.2    |
| 20°-30°   | 51.6    | 0.5       | 0.4    |
| 30°-40°   | 126.5   | 1.2       | 0.9    |
| 40°-50°   | 357.5   | 3.4       | 2.6    |
| 50°-60°   | 713.9   | 6.9       | 5.1    |
| 60°-70°   | 1653.5  | 15.9      | 11.8   |
| 70°-80°   | 2929.6  | 28.2      | 20.9   |
| 80°-90°   | 561.0   | 5.4       | 4.0    |
| 90°-100°  | 347.8   | 3.4       | 2.5    |
| 100°-110° | 572.4   | 5.5       | 4.1    |
| 110°-120° | 743.0   | 7.2       | 5.3    |
| 120°-130° | 754.4   | 7.3       | 5.4    |
| 130°-140° | 610.7   | 5.9       | 4.4    |
| 140°-150° | 448.8   | 4.3       | 3.2    |
| 150°-160° | 292.1   | 2.8       | 2.1    |
| 160°-170° | 120.0   | 1.2       | 0.9    |
| 170°-180° | 24.7    | 0.2       | 0.2    |
| 0°-90°    | 6420.5  | 61.9      | 45.9   |
| 0°-180°   | 10379.9 | 100.0     | 74.1   |

**Coefficient of Utilization**



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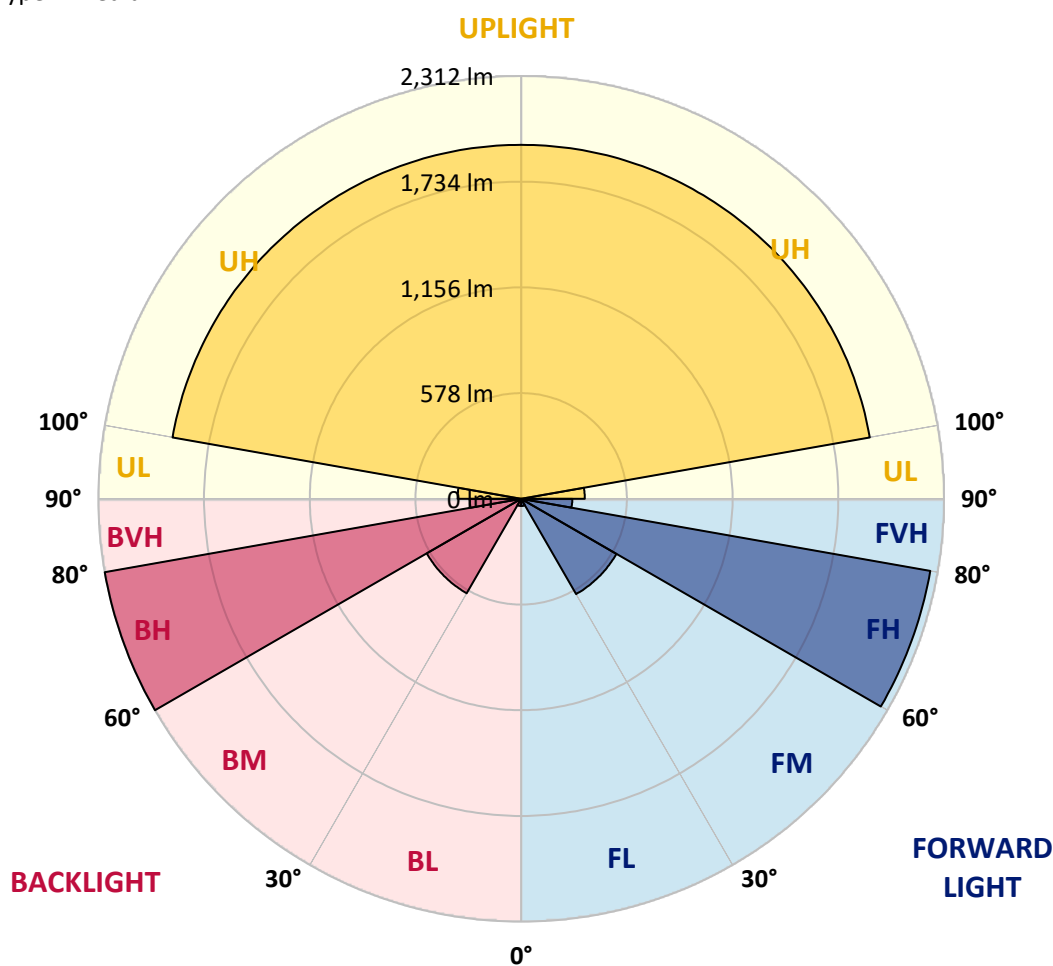
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone          |             | Lumens | % Lamp | Zone Rating/Lumen Limit |        |         |
|---------------|-------------|--------|--------|-------------------------|--------|---------|
|               |             |        |        | B                       | U      | G       |
| FL            | (0°-30°)    | 39.5   | 0.3    |                         |        |         |
| FM            | (30°-60°)   | 601.6  | 4.3    |                         |        |         |
| FH            | (60°-80°)   | 2271.2 | 16.2   |                         |        | G2/5000 |
| FVH           | (80°-90°)   | 279.5  | 2.0    |                         |        | G3/500  |
| BL            | (0°-30°)    | 39.1   | 0.3    | B0/110                  |        |         |
| BM            | (30°-60°)   | 596.3  | 4.3    | B1/1000                 |        |         |
| BH            | (60°-80°)   | 2311.8 | 16.5   | B3/2500                 |        | G2/5000 |
| BVH           | (80°-90°)   | 281.5  | 2.0    |                         |        | G3/500  |
| UL            | (90°-100°)  | 347.8  | 2.5    |                         | U3/500 |         |
| UH            | (100°-180°) | 1935.5 | 13.8   |                         | U5     |         |
| Trapped Light |             | 3620.1 | 25.9   |                         |        |         |

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

Type V Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°   | 5°   | 15°  | 25°  | 35°  | 45°  | 55°  | 65°  | 75°  | 85°  | 90°  |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0°    | 56   | 56   | 56   | 56   | 56   | 56   | 56   | 56   | 56   | 56   | 56   |
| 2.5°  | 53   | 54   | 55   | 55   | 56   | 56   | 57   | 56   | 56   | 55   | 55   |
| 5°    | 51   | 51   | 51   | 53   | 55   | 55   | 54   | 53   | 51   | 52   | 51   |
| 7.5°  | 58   | 58   | 58   | 58   | 59   | 60   | 59   | 59   | 57   | 56   | 55   |
| 10°   | 63   | 62   | 63   | 64   | 64   | 65   | 64   | 63   | 63   | 61   | 61   |
| 12.5° | 71   | 70   | 70   | 70   | 71   | 71   | 70   | 70   | 69   | 69   | 69   |
| 15°   | 77   | 77   | 77   | 77   | 77   | 77   | 77   | 77   | 76   | 76   | 76   |
| 17.5° | 82   | 81   | 82   | 83   | 82   | 82   | 82   | 82   | 81   | 81   | 81   |
| 20°   | 86   | 86   | 86   | 87   | 86   | 87   | 87   | 86   | 86   | 86   | 86   |
| 22.5° | 94   | 94   | 94   | 94   | 93   | 93   | 94   | 96   | 96   | 98   | 97   |
| 25°   | 108  | 107  | 108  | 107  | 107  | 107  | 109  | 109  | 111  | 114  | 115  |
| 27.5° | 125  | 124  | 123  | 123  | 123  | 126  | 125  | 126  | 130  | 131  | 130  |
| 30°   | 133  | 132  | 134  | 136  | 135  | 135  | 137  | 139  | 138  | 137  | 136  |
| 32.5° | 160  | 159  | 161  | 162  | 155  | 153  | 155  | 161  | 161  | 160  | 160  |
| 35°   | 196  | 194  | 192  | 194  | 189  | 191  | 191  | 195  | 203  | 211  | 209  |
| 37.5° | 229  | 225  | 226  | 225  | 220  | 218  | 225  | 229  | 232  | 236  | 239  |
| 40°   | 323  | 319  | 321  | 312  | 292  | 291  | 295  | 324  | 333  | 346  | 346  |
| 42.5° | 420  | 411  | 409  | 393  | 398  | 413  | 415  | 429  | 430  | 446  | 454  |
| 45°   | 455  | 460  | 459  | 482  | 504  | 529  | 510  | 507  | 477  | 488  | 491  |
| 47.5° | 431  | 443  | 482  | 517  | 546  | 579  | 555  | 540  | 502  | 465  | 453  |
| 50°   | 483  | 490  | 531  | 563  | 595  | 626  | 616  | 594  | 550  | 484  | 472  |
| 52.5° | 628  | 644  | 668  | 717  | 749  | 796  | 782  | 779  | 696  | 657  | 658  |
| 55°   | 765  | 814  | 806  | 861  | 928  | 943  | 942  | 912  | 817  | 808  | 799  |
| 57.5° | 781  | 825  | 803  | 868  | 902  | 903  | 907  | 875  | 833  | 826  | 817  |
| 60°   | 781  | 805  | 814  | 883  | 922  | 941  | 908  | 923  | 850  | 834  | 823  |
| 62.5° | 840  | 775  | 832  | 927  | 961  | 980  | 986  | 984  | 899  | 848  | 857  |
| 65°   | 1298 | 1113 | 1244 | 1317 | 1315 | 1369 | 1334 | 1393 | 1304 | 1198 | 1318 |
| 67.5° | 2184 | 1971 | 2096 | 2206 | 2199 | 2270 | 2200 | 2302 | 2218 | 2167 | 2361 |
| 70°   | 3277 | 3051 | 3182 | 3441 | 3493 | 3500 | 3513 | 3432 | 3428 | 3334 | 3546 |
| 72.5° | 3689 | 3496 | 3615 | 3965 | 4062 | 3997 | 4057 | 3959 | 3884 | 3729 | 4009 |
| 75°   | 2963 | 2900 | 2921 | 3177 | 3132 | 3062 | 3093 | 3205 | 3067 | 3026 | 3181 |
| 77.5° | 1924 | 1941 | 1861 | 1894 | 1781 | 1725 | 1743 | 1929 | 1933 | 1938 | 2008 |
| 80°   | 1159 | 1177 | 1088 | 1052 | 938  | 895  | 918  | 1096 | 1164 | 1168 | 1217 |
| 82.5° | 661  | 682  | 642  | 635  | 564  | 532  | 550  | 665  | 688  | 685  | 710  |
| 85°   | 415  | 432  | 415  | 425  | 405  | 392  | 393  | 449  | 446  | 440  | 450  |
| 87.5° | 318  | 333  | 325  | 337  | 323  | 315  | 315  | 352  | 346  | 339  | 337  |
| 90°   | 279  | 294  | 291  | 299  | 278  | 273  | 273  | 308  | 303  | 298  | 292  |
| 95°   | 276  | 286  | 290  | 289  | 247  | 239  | 244  | 306  | 303  | 301  | 298  |
| 105°  | 687  | 680  | 691  | 690  | 323  | 289  | 325  | 747  | 729  | 702  | 654  |
| 115°  | 809  | 784  | 763  | 765  | 739  | 746  | 750  | 809  | 799  | 809  | 809  |
| 125°  | 943  | 929  | 907  | 901  | 820  | 886  | 914  | 966  | 961  | 938  | 914  |
| 135°  | 839  | 824  | 800  | 799  | 767  | 843  | 854  | 917  | 899  | 860  | 851  |
| 145°  | 609  | 602  | 595  | 605  | 596  | 641  | 636  | 665  | 674  | 648  | 644  |
| 155°  | 787  | 781  | 771  | 787  | 829  | 854  | 892  | 899  | 872  | 828  | 806  |
| 165°  | 327  | 326  | 324  | 324  | 323  | 318  | 332  | 341  | 348  | 349  | 352  |



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**CANDELA DISTRIBUTION (continued):**

|      | 0°  | 5°  | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 175° | 327 | 326 | 324 | 324 | 323 | 318 | 332 | 341 | 202 | 192 | 192 |
| 180° | 231 | 231 | 231 | 231 | 231 | 231 | 231 | 231 | 231 | 231 | 231 |



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**CANDELA DISTRIBUTION (continued):**

|       | 95°  | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|------|------|------|------|------|------|------|------|------|------|
| 0°    | 56   | 56   | 56   | 56   | 56   | 56   | 56   | 56   | 56   | 56   |
| 2.5°  | 55   | 56   | 56   | 55   | 54   | 53   | 53   | 52   | 51   | 50   |
| 5°    | 51   | 51   | 51   | 52   | 52   | 50   | 49   | 47   | 47   | 47   |
| 7.5°  | 55   | 55   | 56   | 56   | 57   | 56   | 55   | 53   | 52   | 53   |
| 10°   | 61   | 61   | 61   | 62   | 61   | 60   | 60   | 60   | 59   | 58   |
| 12.5° | 69   | 68   | 68   | 69   | 69   | 68   | 67   | 66   | 67   | 67   |
| 15°   | 76   | 76   | 75   | 75   | 75   | 75   | 74   | 74   | 73   | 73   |
| 17.5° | 83   | 81   | 81   | 81   | 81   | 80   | 81   | 80   | 79   | 79   |
| 20°   | 86   | 87   | 86   | 87   | 86   | 86   | 87   | 86   | 86   | 84   |
| 22.5° | 97   | 96   | 96   | 96   | 94   | 96   | 97   | 97   | 97   | 97   |
| 25°   | 117  | 115  | 112  | 111  | 110  | 110  | 110  | 108  | 109  | 109  |
| 27.5° | 128  | 125  | 122  | 123  | 122  | 120  | 121  | 119  | 121  | 121  |
| 30°   | 135  | 136  | 134  | 132  | 131  | 130  | 132  | 131  | 129  | 129  |
| 32.5° | 159  | 160  | 155  | 151  | 147  | 149  | 152  | 152  | 152  | 152  |
| 35°   | 203  | 193  | 184  | 179  | 176  | 182  | 186  | 186  | 189  | 190  |
| 37.5° | 232  | 223  | 218  | 215  | 209  | 215  | 220  | 219  | 223  | 222  |
| 40°   | 334  | 326  | 306  | 288  | 280  | 287  | 310  | 321  | 327  | 330  |
| 42.5° | 439  | 418  | 395  | 396  | 393  | 396  | 403  | 412  | 420  | 430  |
| 45°   | 479  | 477  | 492  | 502  | 503  | 499  | 482  | 458  | 456  | 455  |
| 47.5° | 446  | 493  | 515  | 540  | 529  | 529  | 505  | 470  | 424  | 421  |
| 50°   | 466  | 528  | 560  | 587  | 579  | 575  | 565  | 521  | 470  | 454  |
| 52.5° | 647  | 685  | 744  | 775  | 781  | 761  | 745  | 680  | 646  | 640  |
| 55°   | 806  | 818  | 886  | 926  | 964  | 940  | 871  | 818  | 789  | 755  |
| 57.5° | 851  | 858  | 892  | 940  | 925  | 934  | 876  | 841  | 797  | 792  |
| 60°   | 865  | 852  | 920  | 943  | 937  | 927  | 888  | 845  | 810  | 779  |
| 62.5° | 875  | 858  | 986  | 969  | 987  | 960  | 939  | 862  | 825  | 800  |
| 65°   | 1274 | 1260 | 1393 | 1386 | 1360 | 1340 | 1359 | 1218 | 1183 | 1222 |
| 67.5° | 2293 | 2214 | 2364 | 2372 | 2338 | 2261 | 2263 | 2114 | 2104 | 2146 |
| 70°   | 3455 | 3357 | 3742 | 3607 | 3652 | 3460 | 3476 | 3248 | 3166 | 3277 |
| 72.5° | 3852 | 3777 | 4282 | 4133 | 4204 | 3929 | 3974 | 3765 | 3641 | 3827 |
| 75°   | 3086 | 3022 | 3320 | 3161 | 3180 | 3008 | 3170 | 3083 | 2996 | 3096 |
| 77.5° | 1999 | 1873 | 1943 | 1805 | 1757 | 1708 | 1877 | 1942 | 1920 | 1979 |
| 80°   | 1203 | 1111 | 1089 | 946  | 892  | 897  | 1031 | 1133 | 1160 | 1203 |
| 82.5° | 707  | 672  | 667  | 575  | 529  | 539  | 629  | 672  | 681  | 705  |
| 85°   | 451  | 438  | 447  | 416  | 394  | 395  | 438  | 441  | 443  | 452  |
| 87.5° | 341  | 339  | 348  | 332  | 317  | 317  | 342  | 336  | 333  | 336  |
| 90°   | 299  | 304  | 311  | 289  | 276  | 278  | 300  | 296  | 292  | 293  |
| 95°   | 307  | 320  | 323  | 256  | 244  | 246  | 307  | 305  | 303  | 300  |
| 105°  | 689  | 678  | 640  | 341  | 302  | 312  | 596  | 594  | 562  | 503  |
| 115°  | 814  | 867  | 863  | 796  | 728  | 742  | 788  | 782  | 787  | 771  |
| 125°  | 918  | 899  | 868  | 794  | 823  | 792  | 810  | 827  | 830  | 794  |
| 135°  | 857  | 849  | 827  | 806  | 810  | 772  | 789  | 802  | 796  | 782  |
| 145°  | 642  | 648  | 643  | 645  | 624  | 598  | 591  | 606  | 610  | 595  |
| 155°  | 780  | 757  | 728  | 738  | 708  | 673  | 677  | 721  | 735  | 738  |
| 165°  | 351  | 351  | 352  | 348  | 340  | 338  | 339  | 344  | 350  | 350  |



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**CANDELA DISTRIBUTION (continued):**

|      | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|------|-----|------|------|------|------|------|------|------|------|------|
| 175° | 190 | 187  | 186  | 181  | 176  | 176  | 178  | 179  | 124  | 77   |
| 180° | 231 | 231  | 231  | 231  | 231  | 231  | 231  | 231  | 231  | 231  |

(END OF REPORT)