

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: H39502

Luminaire Tested: **ACN15SXX3CXXXC**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: H39502  
Test Lab: PEACHTREE CITY  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ACN15SXX3CXXXC  
Description: STREETWORKS CLASSIC ACN TYPE 3 CUT OFF POST TOP  
WITH COPPER FINISH DECORATIVE CHIMNEY ACRYLIC GLOBE  
AND TYPE THREE REFLECTOR INSERT  
Light Source: MOGUL BASE E23.5 CLEAR HIGH PRESSURE SODIUM LAMP  
LU150/U 150 WATTS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1600 (1 lamp)  
Luminaire Lumens: 1087.8 lumens  
Efficiency: 68.0%  
Efficacy: 7.3 lumens/watt  
Luminous Opening: Point Source (0' x 0' x 0')  
IES Classification: Type III - Short - Cutoff  
BUG Rating: B1 - U1 - G1

Input Watts (W): 150  
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

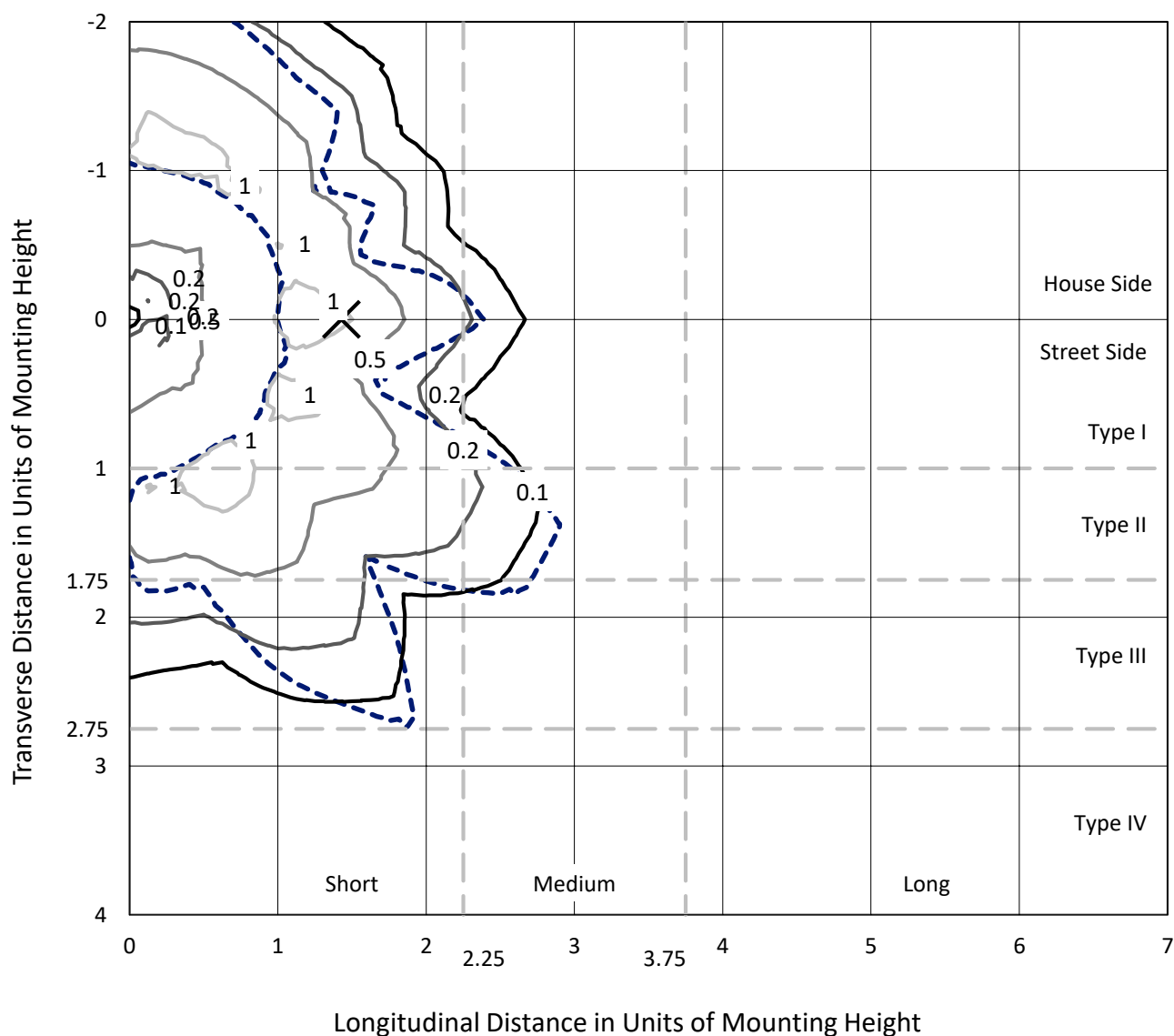


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

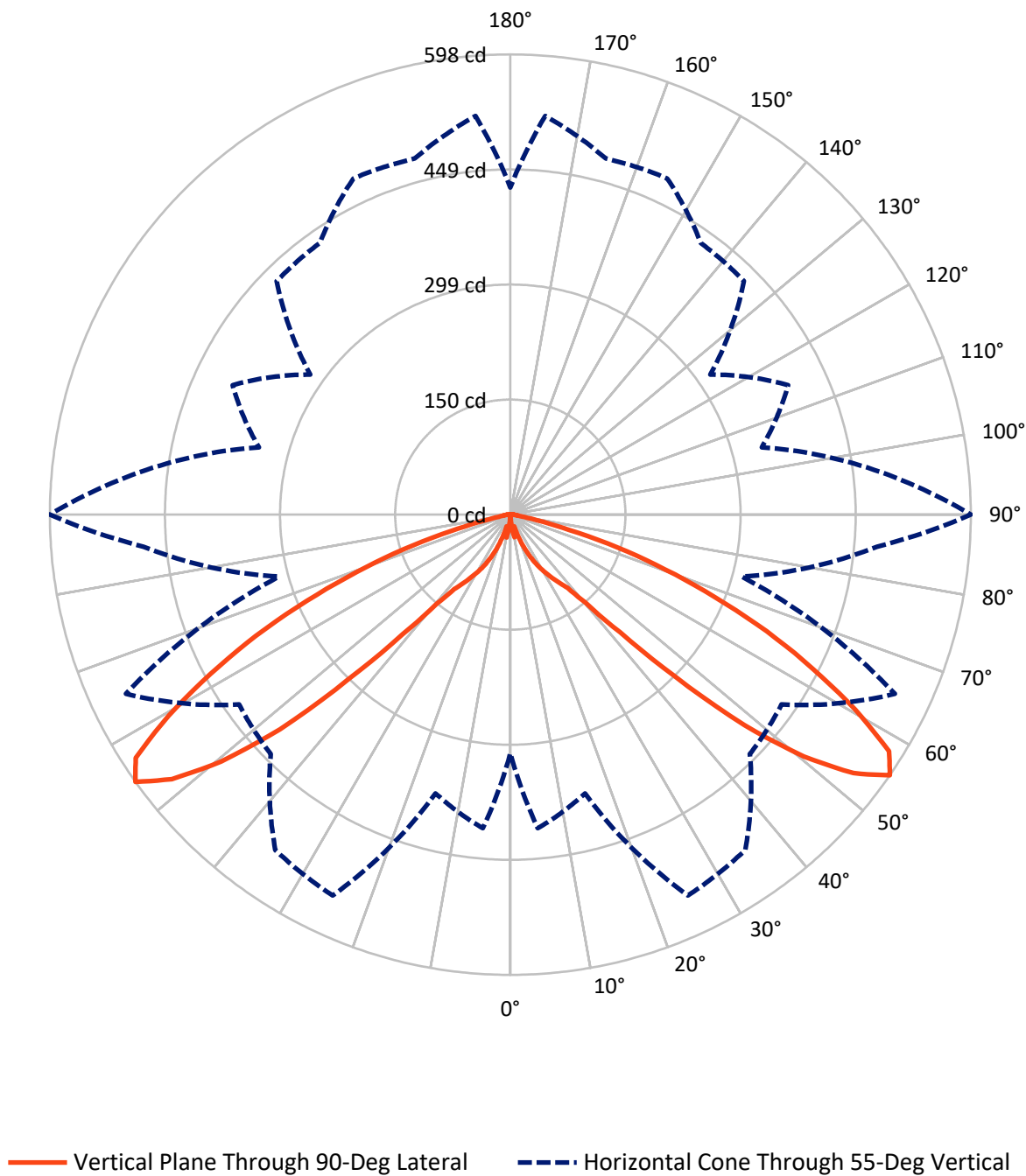


Based on 10 foot mounting height. Maximum calculated value = 1.3 fc  
 Type III - Short - Cutoff

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## Luminous Intensity Polar Plot



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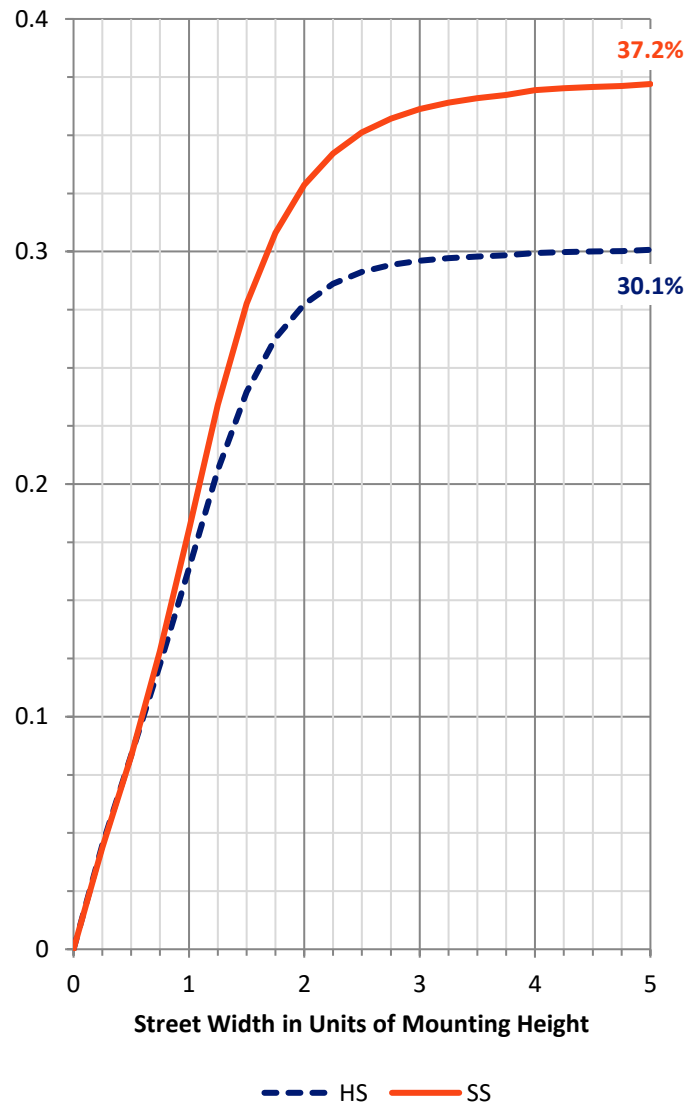
**FLUX DISTRIBUTION:**

|                    |        | Downward | Upward | Total  |
|--------------------|--------|----------|--------|--------|
| <b>House Side</b>  | Lumens | 483.8    | 3.6    | 487.4  |
|                    | % Lamp | 30.2     | 0.2    | 30.5   |
| <b>Street Side</b> | Lumens | 596.9    | 3.6    | 600.4  |
|                    | % Lamp | 37.3     | 0.2    | 37.5   |
| <b>Total</b>       | Lumens | 1080.7   | 7.1    | 1087.8 |
|                    | % Lamp | 67.5     | 0.4    | 68.0   |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10°    | 1.6    | 0.1       | 0.1    |
| 10°-20°   | 6.7    | 0.6       | 0.4    |
| 20°-30°   | 27.4   | 2.5       | 1.7    |
| 30°-40°   | 65.2   | 6.0       | 4.1    |
| 40°-50°   | 202.5  | 18.6      | 12.7   |
| 50°-60°   | 381.8  | 35.1      | 23.9   |
| 60°-70°   | 297.8  | 27.4      | 18.6   |
| 70°-80°   | 87.8   | 8.1       | 5.5    |
| 80°-90°   | 10.0   | 0.9       | 0.6    |
| 90°-100°  | 4.0    | 0.4       | 0.3    |
| 100°-110° | 2.2    | 0.2       | 0.1    |
| 110°-120° | 0.8    | 0.1       | 0.1    |
| 120°-130° | 0.1    | 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°    | 1080.7 | 99.3      | 67.5   |
| 0°-180°   | 1087.8 | 100.0     | 68.0   |

**Coefficient of Utilization**



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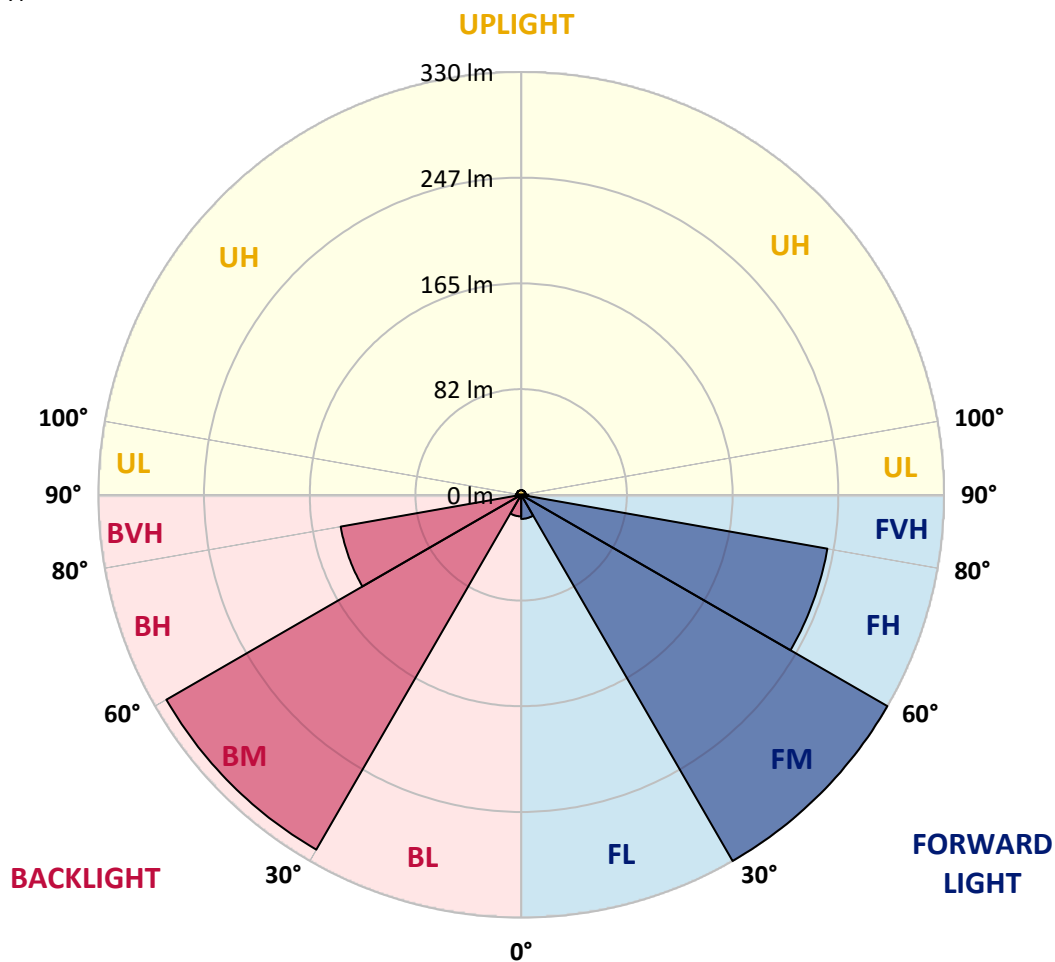
CATALOG NUMBER: ACN15SXX3CXXC

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

| Zone          |             | Lumens | % Lamp | Zone Rating/Lumen Limit |       |        |
|---------------|-------------|--------|--------|-------------------------|-------|--------|
|               |             |        |        | B                       | U     | G      |
| FL            | (0°-30°)    | 18.8   | 1.2    |                         |       |        |
| FM            | (30°-60°)   | 329.9  | 20.6   |                         |       |        |
| FH            | (60°-80°)   | 242.6  | 15.2   |                         |       | G0/660 |
| FVH           | (80°-90°)   | 5.6    | 0.4    |                         |       | G0/10  |
| BL            | (0°-30°)    | 16.8   | 1.1    | B0/110                  |       |        |
| BM            | (30°-60°)   | 319.7  | 20.0   | B1/1000                 |       |        |
| BH            | (60°-80°)   | 143.0  | 8.9    | B1/500                  |       | G1/500 |
| BVH           | (80°-90°)   | 4.4    | 0.3    |                         |       | G0/10  |
| UL            | (90°-100°)  | 4.0    | 0.3    |                         | U1/10 |        |
| UH            | (100°-180°) | 3.6    | 0.2    |                         | U1/10 |        |
| Trapped Light |             | 512.2  | 32.0   |                         |       |        |

**BUG Rating: B1-U1-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°  | 5°  | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0°     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| 2.5°   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| 5°     | 12  | 13  | 12  | 12  | 11  | 11  | 10  | 9   | 9   | 10  | 10  |
| 7.5°   | 25  | 25  | 24  | 24  | 25  | 25  | 23  | 21  | 21  | 20  | 21  |
| 10°    | 34  | 33  | 35  | 34  | 35  | 35  | 34  | 31  | 31  | 31  | 30  |
| 12.5°  | 34  | 35  | 34  | 33  | 31  | 31  | 32  | 30  | 29  | 28  | 27  |
| 15°    | 29  | 29  | 27  | 26  | 25  | 22  | 22  | 22  | 22  | 20  | 20  |
| 17.5°  | 21  | 22  | 21  | 21  | 19  | 18  | 16  | 18  | 17  | 15  | 16  |
| 20°    | 41  | 39  | 39  | 41  | 39  | 38  | 37  | 37  | 35  | 33  | 33  |
| 22.5°  | 54  | 51  | 49  | 52  | 49  | 48  | 48  | 51  | 50  | 50  | 48  |
| 25°    | 54  | 57  | 58  | 59  | 58  | 56  | 59  | 62  | 62  | 62  | 61  |
| 27.5°  | 67  | 70  | 69  | 72  | 67  | 67  | 69  | 69  | 74  | 75  | 74  |
| 30°    | 78  | 78  | 83  | 80  | 78  | 76  | 81  | 81  | 85  | 86  | 85  |
| 32.5°  | 83  | 88  | 89  | 93  | 88  | 88  | 90  | 91  | 93  | 97  | 96  |
| 35°    | 97  | 99  | 102 | 105 | 101 | 98  | 98  | 105 | 104 | 110 | 108 |
| 37.5°  | 105 | 108 | 115 | 114 | 113 | 108 | 110 | 117 | 115 | 115 | 121 |
| 40°    | 124 | 125 | 131 | 135 | 133 | 128 | 128 | 140 | 137 | 135 | 150 |
| 42.5°  | 165 | 170 | 175 | 186 | 185 | 179 | 171 | 194 | 179 | 187 | 209 |
| 45°    | 213 | 244 | 243 | 269 | 263 | 240 | 232 | 272 | 236 | 259 | 300 |
| 47.5°  | 261 | 325 | 315 | 349 | 361 | 308 | 303 | 363 | 297 | 352 | 409 |
| 50°    | 295 | 390 | 359 | 436 | 431 | 366 | 365 | 436 | 322 | 427 | 494 |
| 52.5°  | 309 | 411 | 378 | 498 | 485 | 411 | 402 | 498 | 315 | 464 | 558 |
| 55°    | 310 | 409 | 375 | 546 | 532 | 440 | 430 | 551 | 311 | 478 | 598 |
| 57.5°  | 296 | 378 | 352 | 549 | 566 | 442 | 461 | 578 | 299 | 442 | 580 |
| 60°    | 285 | 331 | 316 | 532 | 576 | 420 | 516 | 591 | 262 | 388 | 515 |
| 62.5°  | 253 | 273 | 268 | 498 | 559 | 384 | 555 | 576 | 214 | 333 | 441 |
| 65°    | 214 | 210 | 210 | 446 | 524 | 321 | 558 | 547 | 165 | 277 | 366 |
| 67.5°  | 176 | 162 | 160 | 379 | 490 | 257 | 514 | 499 | 126 | 221 | 287 |
| 70°    | 124 | 117 | 112 | 287 | 424 | 191 | 421 | 422 | 94  | 167 | 213 |
| 72.5°  | 68  | 70  | 74  | 194 | 328 | 120 | 304 | 305 | 62  | 124 | 146 |
| 75°    | 30  | 33  | 44  | 122 | 243 | 65  | 209 | 187 | 37  | 81  | 79  |
| 77.5°  | 16  | 19  | 32  | 70  | 169 | 38  | 121 | 104 | 24  | 39  | 35  |
| 80°    | 10  | 12  | 16  | 30  | 81  | 18  | 44  | 45  | 16  | 17  | 15  |
| 82.5°  | 7   | 7   | 8   | 11  | 18  | 10  | 15  | 15  | 10  | 10  | 10  |
| 85°    | 5   | 5   | 6   | 7   | 8   | 7   | 9   | 9   | 7   | 7   | 7   |
| 87.5°  | 4   | 4   | 4   | 5   | 5   | 5   | 6   | 6   | 5   | 5   | 5   |
| 90°    | 4   | 4   | 4   | 4   | 4   | 4   | 5   | 5   | 4   | 4   | 4   |
| 92.5°  | 4   | 4   | 4   | 4   | 4   | 4   | 4   | 4   | 4   | 4   | 4   |
| 95°    | 3   | 3   | 4   | 4   | 4   | 4   | 4   | 4   | 4   | 4   | 4   |
| 97.5°  | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 4   | 3   | 3   | 4   |
| 100°   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   | 3   |
| 102.5° | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 3   | 2   | 2   | 2   |
| 105°   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   |
| 107.5° | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   |
| 110°   | 2   | 1   | 1   | 1   | 1   | 1   | 1   | 2   | 1   | 1   | 1   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 112.5° | 1  | 1  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| 115°   | 1  | 1  | 1   | 1   | 1   | 1   | 0   | 1   | 1   | 1   | 1   |
| 117.5° | 1  | 1  | 1   | 1   | 1   | 0   | 0   | 0   | 1   | 1   | 1   |
| 120°   | 1  | 1  | 1   | 1   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 122.5° | 1  | 1  | 1   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 125°   | 1  | 1  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 127.5° | 1  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 130°   | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 132.5° | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 135°   | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 137.5° | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 140°   | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 142.5° | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 145°   | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 147.5° | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 150°   | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 152.5° | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 155°   | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 157.5° | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 160°   | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 162.5° | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 165°   | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 167.5° | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 170°   | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 172.5° | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 175°   | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 177.5° | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 180°   | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |





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**CANDELA DISTRIBUTION (continued):**

|        | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-----|------|------|------|------|------|------|------|------|------|
| 0°     | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 2.5°   | 1   | 1    | 1    | 1    | 1    | 1    | 0    | 0    | 0    | 0    |
| 5°     | 10  | 10   | 10   | 10   | 10   | 9    | 8    | 7    | 6    | 6    |
| 7.5°   | 20  | 19   | 17   | 16   | 16   | 17   | 17   | 16   | 16   | 16   |
| 10°    | 29  | 26   | 22   | 20   | 21   | 23   | 26   | 27   | 27   | 27   |
| 12.5°  | 26  | 23   | 23   | 22   | 21   | 21   | 21   | 22   | 23   | 25   |
| 15°    | 19  | 18   | 20   | 19   | 18   | 16   | 16   | 16   | 17   | 17   |
| 17.5°  | 16  | 16   | 16   | 16   | 15   | 14   | 14   | 14   | 12   | 12   |
| 20°    | 32  | 31   | 31   | 30   | 30   | 29   | 27   | 27   | 27   | 25   |
| 22.5°  | 47  | 44   | 42   | 40   | 40   | 43   | 42   | 40   | 42   | 41   |
| 25°    | 60  | 58   | 55   | 53   | 50   | 54   | 56   | 59   | 61   | 63   |
| 27.5°  | 74  | 75   | 70   | 64   | 63   | 66   | 70   | 71   | 72   | 76   |
| 30°    | 87  | 86   | 83   | 77   | 76   | 80   | 78   | 83   | 81   | 86   |
| 32.5°  | 92  | 98   | 92   | 85   | 87   | 89   | 86   | 95   | 95   | 100  |
| 35°    | 104 | 107  | 100  | 94   | 93   | 94   | 94   | 105  | 103  | 105  |
| 37.5°  | 118 | 120  | 111  | 106  | 103  | 109  | 107  | 116  | 117  | 118  |
| 40°    | 148 | 142  | 132  | 125  | 126  | 131  | 130  | 138  | 137  | 141  |
| 42.5°  | 203 | 188  | 177  | 166  | 173  | 178  | 181  | 187  | 183  | 188  |
| 45°    | 285 | 248  | 248  | 233  | 246  | 254  | 257  | 268  | 268  | 256  |
| 47.5°  | 373 | 314  | 328  | 304  | 319  | 338  | 336  | 356  | 353  | 338  |
| 50°    | 434 | 353  | 387  | 340  | 385  | 382  | 402  | 404  | 428  | 369  |
| 52.5°  | 482 | 365  | 408  | 340  | 432  | 415  | 463  | 443  | 487  | 389  |
| 55°    | 511 | 338  | 398  | 317  | 429  | 431  | 482  | 479  | 520  | 425  |
| 57.5°  | 502 | 292  | 369  | 279  | 402  | 417  | 453  | 480  | 518  | 459  |
| 60°    | 458 | 242  | 321  | 240  | 362  | 376  | 402  | 445  | 476  | 456  |
| 62.5°  | 400 | 196  | 269  | 203  | 311  | 312  | 340  | 378  | 404  | 414  |
| 65°    | 326 | 156  | 211  | 152  | 252  | 239  | 269  | 300  | 321  | 344  |
| 67.5°  | 242 | 112  | 150  | 102  | 177  | 165  | 191  | 220  | 230  | 252  |
| 70°    | 149 | 70   | 85   | 61   | 96   | 95   | 106  | 128  | 134  | 148  |
| 72.5°  | 78  | 43   | 45   | 39   | 47   | 51   | 54   | 62   | 68   | 78   |
| 75°    | 42  | 28   | 28   | 25   | 26   | 30   | 32   | 37   | 42   | 46   |
| 77.5°  | 22  | 17   | 19   | 16   | 17   | 19   | 21   | 26   | 28   | 29   |
| 80°    | 14  | 12   | 13   | 12   | 12   | 13   | 15   | 19   | 19   | 19   |
| 82.5°  | 10  | 9    | 10   | 9    | 9    | 9    | 10   | 13   | 13   | 13   |
| 85°    | 7   | 6    | 7    | 8    | 7    | 7    | 8    | 8    | 8    | 8    |
| 87.5°  | 5   | 5    | 5    | 6    | 6    | 5    | 5    | 5    | 5    | 5    |
| 90°    | 4   | 5    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    |
| 92.5°  | 4   | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    |
| 95°    | 4   | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 3    | 4    |
| 97.5°  | 4   | 4    | 4    | 3    | 3    | 3    | 3    | 4    | 3    | 3    |
| 100°   | 3   | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 2    |
| 102.5° | 2   | 3    | 3    | 2    | 2    | 2    | 2    | 2    | 2    | 2    |
| 105°   | 2   | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    |
| 107.5° | 2   | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 1    | 1    |
| 110°   | 1   | 2    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |



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**CANDELA DISTRIBUTION (continued):**

|        | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-----|------|------|------|------|------|------|------|------|------|
| 112.5° | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 0    | 0    |
| 115°   | 1   | 1    | 1    | 1    | 1    | 1    | 1    | 0    | 0    | 0    |
| 117.5° | 1   | 1    | 1    | 1    | 1    | 1    | 0    | 0    | 0    | 0    |
| 120°   | 1   | 1    | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    |
| 122.5° | 0   | 1    | 1    | 1    | 0    | 0    | 0    | 0    | 0    | 0    |
| 125°   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 127.5° | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 130°   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 132.5° | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 135°   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 137.5° | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 140°   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 142.5° | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 145°   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 147.5° | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 150°   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 152.5° | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 155°   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 157.5° | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 160°   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 162.5° | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 165°   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 167.5° | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 170°   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 172.5° | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 175°   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 177.5° | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 180°   | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

(END OF REPORT)