

Scaled data based on original data using
LM-35-02 Approved Method for Photometric Testing of Floodlights Using High Intensity
Discharge or Incandescent Filament Lamps

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: LUMIERE

Report Number: P185959

Luminaire Tested: **206-10LED4041**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Report Generated By 670245982

Test Information

Test Method: LM-35-02
 Report Number: P185959
 TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26956)
 Test Lab: INNOVATION CENTER-P2
 Issue Date: 3/3/2020
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: LUMIERE
 Catalog Number: 206-10LED4041
 Description: LUMIERE 203, STANDARD RECESSED LENS HOOD BLACK, 41 DEG LED OPTIC,
 CLEAR LENS
 Light Source: 4000K CCT, 80 CRI LEDs
 Ballast/Driver: -

| Luminaire Equipment: | <u>Sample No.</u> | <u>Condition</u> | <u>Description</u> |
|----------------------|-------------------|------------------|---------------------------|
| | AS-5443-1 | Good | WHITE TWIN R-EVOLVE FLOOD |
| | AS-5443-2 | Good | REFLECTOR |
| | AS-5443-3 | Good | REFLECTOR |
| | AS-5443-4 | Good | REFLECTOR |

Summary

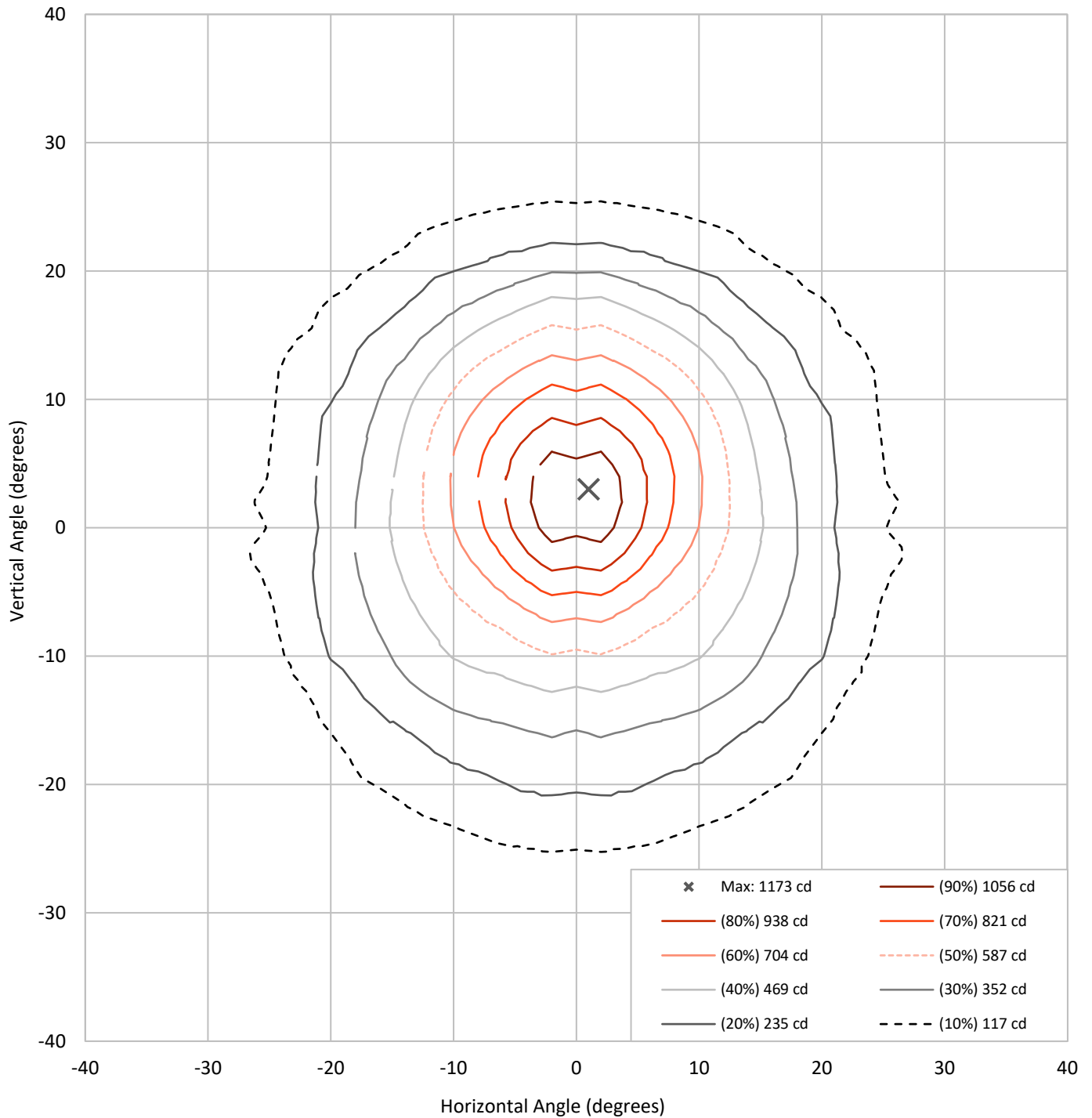
| | |
|---|------------------------------------|
| Lumens per Lamp: N/A | NEMA Type: 4H x 4V |
| Luminaire Lumens: 305 lumens | Max Intensity: 1173 candela |
| Efficiency: N/A | Max Intensity Angle: 1°H x 3°V |
| Efficacy: 32.8 lumens/watt | |
| Luminous Opening: Circular (Dia: 0.17' x H: 0') | |
| Beam Angle (50%): 24.9°H x 26.1°V | Field Angle (10%): 50.3°H x 50.5°V |
| Beam Lumens: 121.5 lumens | Field Lumens: 266.9 lumens |
| Beam Efficiency: 39.8% | Field Efficiency: 87.5% |

Input Watts (W): 9.3
 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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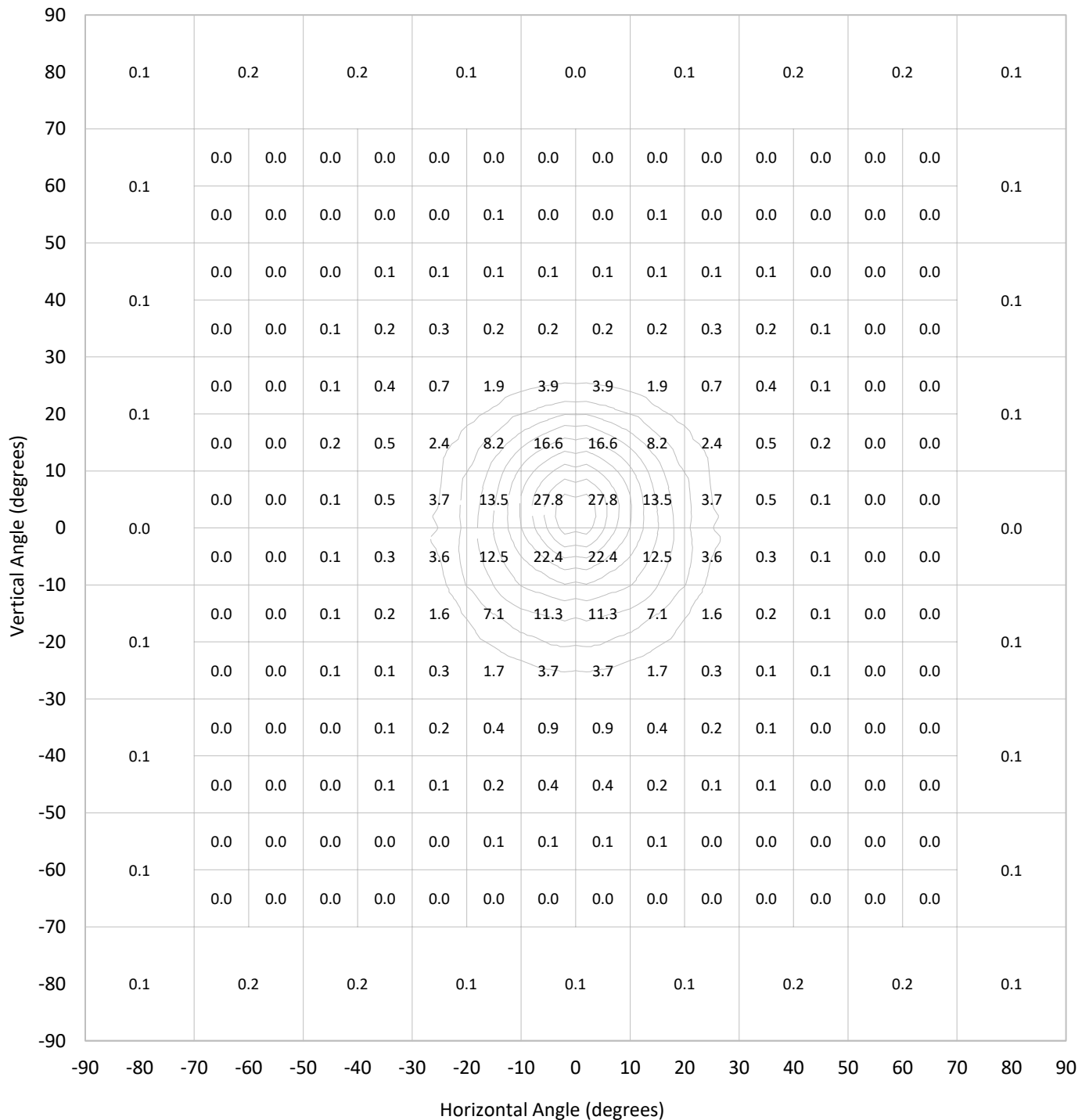
Iso-Candela Plot





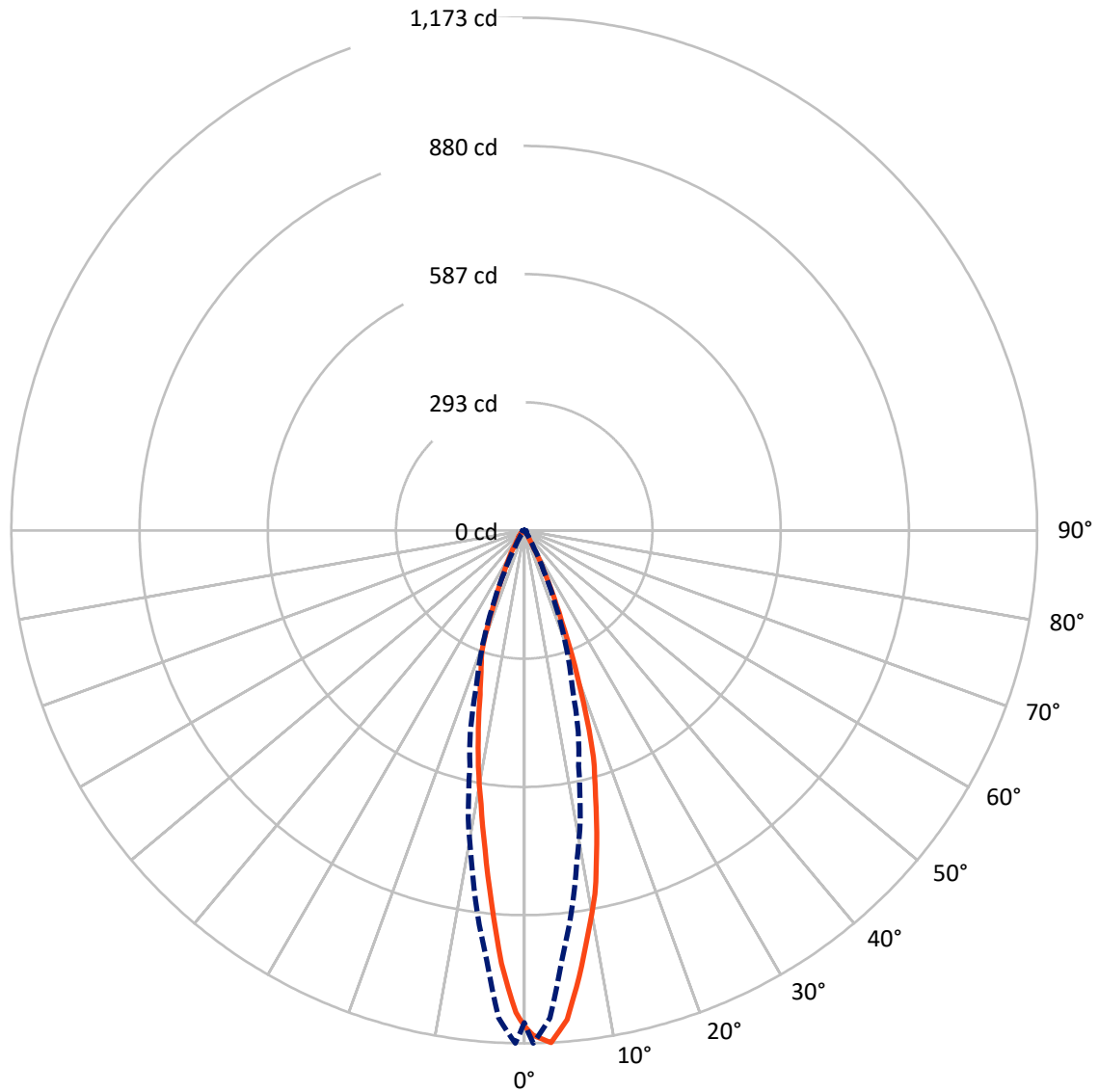
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Lumen Table



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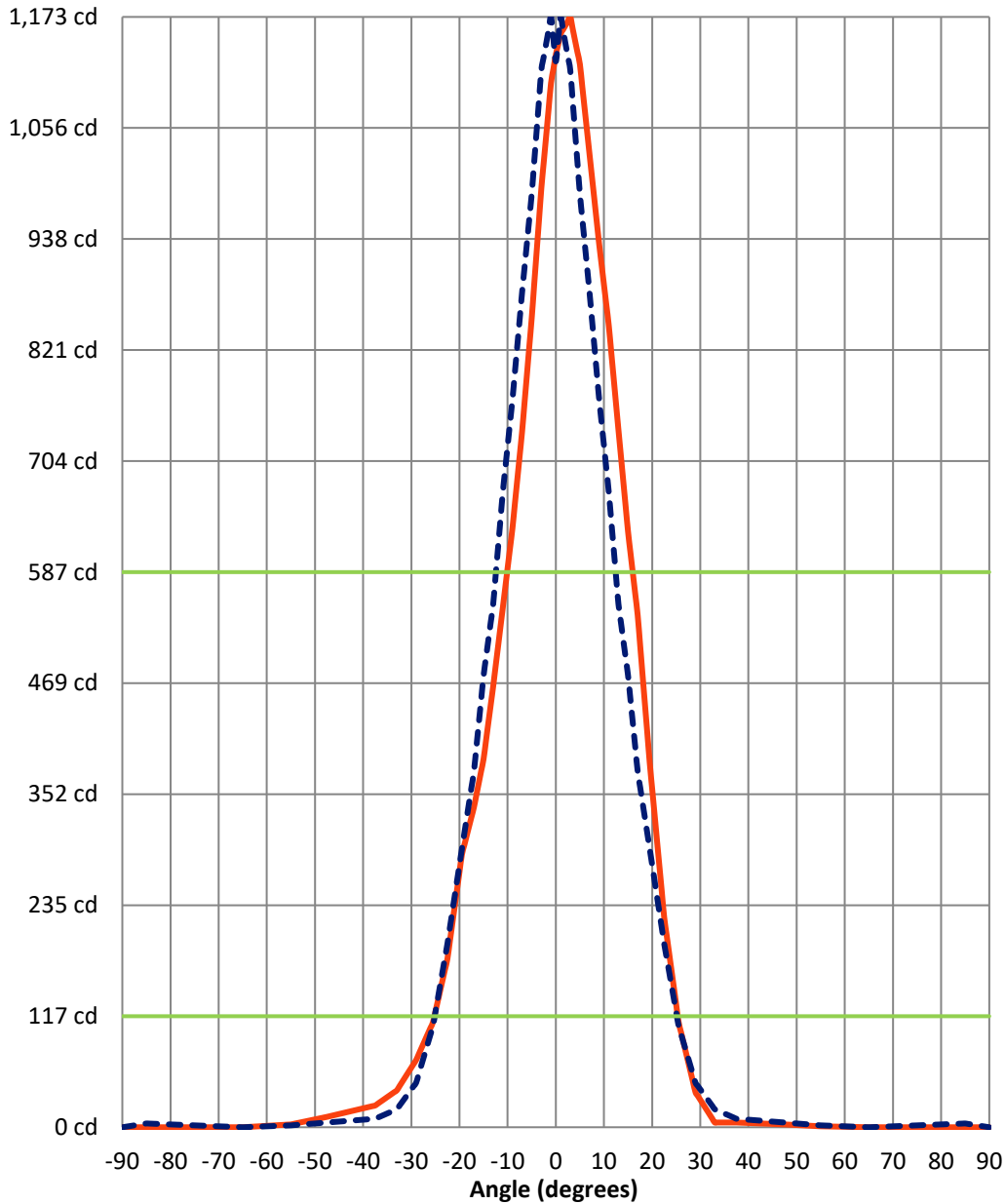
Luminous Intensity Polar Plot



— Vertical Distribution Through 1-Deg - - - Horizontal Distribution Through 3-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 24.9°
 V Angle: 26.1°
 Lumens: 121.5
 Efficiency: 39.8%

Field:
 H Angle: 50.3°
 V Angle: 50.5°
 Lumens: 266.9
 Efficiency: 87.5%

Spill:
 Lumens: 38.1
 Efficiency: 12.5%

— Vertical Distribution through 1-Deg
 - - Horizontal Distribution through 3-Deg



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FIELD
BEAM

CANDELA DISTRIBUTION:

| | 0° | 1° | 3° | 5° | 7° | 9° | 11° | 13° | 15° | 17° | 19.5° |
|--------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-------|
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 2 |
| 75° | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| 65° | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 55° | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 47.5° | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 42.5° | 4 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 6 |
| 37.5° | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 8 |
| 33° | 5 | 5 | 5 | 5 | 6 | 7 | 7 | 8 | 8 | 9 | 9 |
| 29° | 35 | 37 | 35 | 31 | 28 | 24 | 21 | 19 | 17 | 14 | 14 |
| 25.5° | 105 | 111 | 109 | 97 | 90 | 79 | 64 | 51 | 43 | 35 | 29 |
| 22.5° | 212 | 222 | 211 | 187 | 195 | 157 | 162 | 113 | 89 | 65 | 50 |
| 19.5° | 370 | 385 | 361 | 310 | 286 | 247 | 251 | 205 | 139 | 141 | 80 |
| 17° | 520 | 541 | 522 | 459 | 426 | 358 | 314 | 248 | 235 | 154 | 153 |
| 15° | 601 | 629 | 614 | 551 | 524 | 457 | 403 | 325 | 262 | 243 | 169 |
| 13° | 707 | 737 | 717 | 648 | 610 | 542 | 484 | 393 | 322 | 282 | 178 |
| 11° | 812 | 847 | 821 | 746 | 698 | 613 | 547 | 450 | 378 | 305 | 207 |
| 9° | 891 | 933 | 903 | 827 | 773 | 674 | 605 | 495 | 414 | 325 | 276 |
| 7° | 987 | 1028 | 988 | 897 | 831 | 727 | 647 | 522 | 440 | 342 | 284 |
| 5° | 1082 | 1123 | 1075 | 956 | 872 | 761 | 669 | 544 | 458 | 358 | 288 |
| 3° | 1126 | 1173 | 1117 | 986 | 882 | 769 | 671 | 553 | 477 | 376 | 294 |
| 1° | 1108 | 1155 | 1097 | 970 | 859 | 756 | 666 | 552 | 484 | 392 | 299 |
| 0° | 1082 | 1133 | 1073 | 952 | 843 | 744 | 660 | 550 | 483 | 394 | 289 |
| -1° | 1052 | 1103 | 1037 | 924 | 816 | 725 | 646 | 542 | 477 | 392 | 305 |
| -3° | 947 | 992 | 939 | 836 | 748 | 675 | 600 | 516 | 462 | 377 | 305 |
| -5° | 817 | 855 | 809 | 738 | 666 | 613 | 556 | 483 | 438 | 352 | 298 |
| -7° | 703 | 735 | 701 | 647 | 595 | 557 | 510 | 453 | 413 | 331 | 284 |
| -9° | 603 | 633 | 607 | 565 | 529 | 512 | 474 | 426 | 381 | 304 | 266 |
| -11° | 523 | 549 | 533 | 496 | 476 | 468 | 443 | 395 | 345 | 266 | 248 |
| -13° | 445 | 466 | 451 | 434 | 415 | 414 | 380 | 339 | 286 | 248 | 180 |
| -15° | 368 | 389 | 380 | 362 | 348 | 337 | 303 | 266 | 225 | 213 | 159 |
| -17° | 322 | 338 | 331 | 312 | 292 | 278 | 241 | 210 | 209 | 167 | 97 |
| -19.5° | 273 | 288 | 277 | 253 | 229 | 210 | 220 | 190 | 131 | 138 | 70 |
| -22.5° | 170 | 178 | 172 | 187 | 172 | 143 | 125 | 109 | 83 | 56 | 36 |
| -25.5° | 105 | 111 | 106 | 94 | 83 | 73 | 58 | 49 | 38 | 28 | 18 |
| -29° | 67 | 71 | 66 | 57 | 51 | 41 | 34 | 28 | 20 | 15 | 11 |
| -33° | 37 | 39 | 36 | 32 | 28 | 23 | 19 | 16 | 13 | 10 | 8 |
| -37.5° | 22 | 23 | 22 | 20 | 18 | 16 | 14 | 12 | 11 | 9 | 8 |
| -42.5° | 16 | 17 | 16 | 15 | 14 | 12 | 12 | 10 | 9 | 8 | 7 |
| -47.5° | 10 | 11 | 10 | 9 | 9 | 8 | 8 | 7 | 6 | 6 | 5 |
| -55° | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 |
| -65° | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| -75° | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| -85° | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 2 | 2 | 2 |
| -90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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CANDELA DISTRIBUTION (continued):

| | 22.5° | 25.5° | 29° | 33° | 37.5° | 42.5° | 47.5° | 55° | 65° | 75° | 85° |
|--------|-------|-------|-----|-----|-------|-------|-------|-----|-----|-----|-----|
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 6 |
| 75° | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 4 | 5 | 5 |
| 65° | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 4 | 5 |
| 55° | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 5 |
| 47.5° | 4 | 3 | 3 | 2 | 1 | 1 | 0 | 0 | 1 | 3 | 5 |
| 42.5° | 6 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | 1 | 3 | 5 |
| 37.5° | 8 | 8 | 8 | 7 | 5 | 3 | 1 | 0 | 1 | 3 | 5 |
| 33° | 11 | 11 | 11 | 10 | 8 | 4 | 2 | 0 | 1 | 3 | 5 |
| 29° | 15 | 14 | 14 | 13 | 11 | 6 | 3 | 1 | 1 | 2 | 5 |
| 25.5° | 25 | 21 | 19 | 17 | 13 | 8 | 4 | 1 | 0 | 2 | 5 |
| 22.5° | 41 | 33 | 25 | 20 | 14 | 9 | 5 | 1 | 0 | 2 | 5 |
| 19.5° | 63 | 49 | 33 | 23 | 15 | 9 | 5 | 1 | 0 | 2 | 4 |
| 17° | 83 | 64 | 41 | 24 | 14 | 10 | 5 | 1 | 0 | 2 | 4 |
| 15° | 101 | 76 | 44 | 24 | 14 | 9 | 5 | 1 | 0 | 2 | 4 |
| 13° | 160 | 81 | 46 | 24 | 13 | 9 | 5 | 1 | 0 | 2 | 4 |
| 11° | 168 | 85 | 46 | 23 | 13 | 9 | 5 | 2 | 0 | 2 | 4 |
| 9° | 173 | 89 | 47 | 22 | 12 | 9 | 5 | 2 | 0 | 2 | 4 |
| 7° | 178 | 95 | 47 | 21 | 11 | 8 | 5 | 2 | 0 | 2 | 4 |
| 5° | 186 | 102 | 46 | 20 | 10 | 8 | 5 | 2 | 0 | 2 | 4 |
| 3° | 194 | 107 | 47 | 19 | 9 | 7 | 5 | 2 | 0 | 2 | 4 |
| 1° | 188 | 164 | 45 | 19 | 8 | 7 | 5 | 2 | 0 | 2 | 4 |
| 0° | 182 | 110 | 46 | 18 | 8 | 7 | 4 | 2 | 0 | 2 | 4 |
| -1° | 182 | 163 | 45 | 18 | 7 | 6 | 4 | 1 | 0 | 2 | 4 |
| -3° | 201 | 137 | 43 | 17 | 7 | 6 | 4 | 1 | 0 | 2 | 4 |
| -5° | 194 | 95 | 40 | 16 | 6 | 6 | 4 | 1 | 0 | 2 | 4 |
| -7° | 185 | 79 | 35 | 14 | 6 | 5 | 4 | 1 | 0 | 2 | 4 |
| -9° | 173 | 66 | 30 | 12 | 5 | 5 | 4 | 1 | 0 | 2 | 4 |
| -11° | 141 | 57 | 26 | 9 | 5 | 5 | 3 | 1 | 0 | 2 | 4 |
| -13° | 87 | 46 | 21 | 6 | 5 | 5 | 3 | 1 | 0 | 2 | 4 |
| -15° | 70 | 37 | 16 | 5 | 5 | 4 | 3 | 1 | 0 | 2 | 4 |
| -17° | 57 | 28 | 10 | 4 | 4 | 4 | 3 | 1 | 0 | 2 | 4 |
| -19.5° | 38 | 16 | 6 | 4 | 4 | 4 | 2 | 1 | 0 | 2 | 4 |
| -22.5° | 18 | 9 | 5 | 4 | 4 | 3 | 2 | 1 | 0 | 2 | 4 |
| -25.5° | 11 | 7 | 5 | 5 | 4 | 3 | 2 | 1 | 0 | 2 | 5 |
| -29° | 8 | 6 | 5 | 5 | 4 | 3 | 2 | 0 | 1 | 3 | 5 |
| -33° | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | 1 | 3 | 5 |
| -37.5° | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | 1 | 3 | 5 |
| -42.5° | 6 | 5 | 4 | 3 | 2 | 1 | 0 | 0 | 1 | 3 | 5 |
| -47.5° | 4 | 3 | 3 | 2 | 1 | 0 | 0 | 0 | 1 | 3 | 5 |
| -55° | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 2 | 4 | 5 |
| -65° | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 4 | 5 |
| -75° | 0 | 0 | 0 | 1 | 1 | 2 | 3 | 3 | 4 | 5 | 5 |
| -85° | 3 | 3 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 6 |
| -90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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CANDELA DISTRIBUTION (continued):

| | 90° |
|--------|-----|
| 90° | 0 |
| 85° | 0 |
| 75° | 0 |
| 65° | 0 |
| 55° | 0 |
| 47.5° | 0 |
| 42.5° | 0 |
| 37.5° | 0 |
| 33° | 0 |
| 29° | 0 |
| 25.5° | 0 |
| 22.5° | 0 |
| 19.5° | 0 |
| 17° | 0 |
| 15° | 0 |
| 13° | 0 |
| 11° | 0 |
| 9° | 0 |
| 7° | 0 |
| 5° | 0 |
| 3° | 0 |
| 1° | 0 |
| 0° | 0 |
| -1° | 0 |
| -3° | 0 |
| -5° | 0 |
| -7° | 0 |
| -9° | 0 |
| -11° | 0 |
| -13° | 0 |
| -15° | 0 |
| -17° | 0 |
| -19.5° | 0 |
| -22.5° | 0 |
| -25.5° | 0 |
| -29° | 0 |
| -33° | 0 |
| -37.5° | 0 |
| -42.5° | 0 |
| -47.5° | 0 |
| -55° | 0 |
| -65° | 0 |
| -75° | 0 |
| -85° | 0 |
| -90° | 0 |

(END OF REPORT)