

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: 768739_150MP

Luminaire Tested: **ARC15PXX5511XR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768739_150MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC15PXX5511XR
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: 9412.7 lumens
Efficiency: 67.2%
Efficacy: 50.9 lumens/watt
Luminous Opening: Point Source (0' x 0' x 0')
IES Classification: Type V - Medium - Non-Cutoff
BUG Rating: B4 - U5 - G3

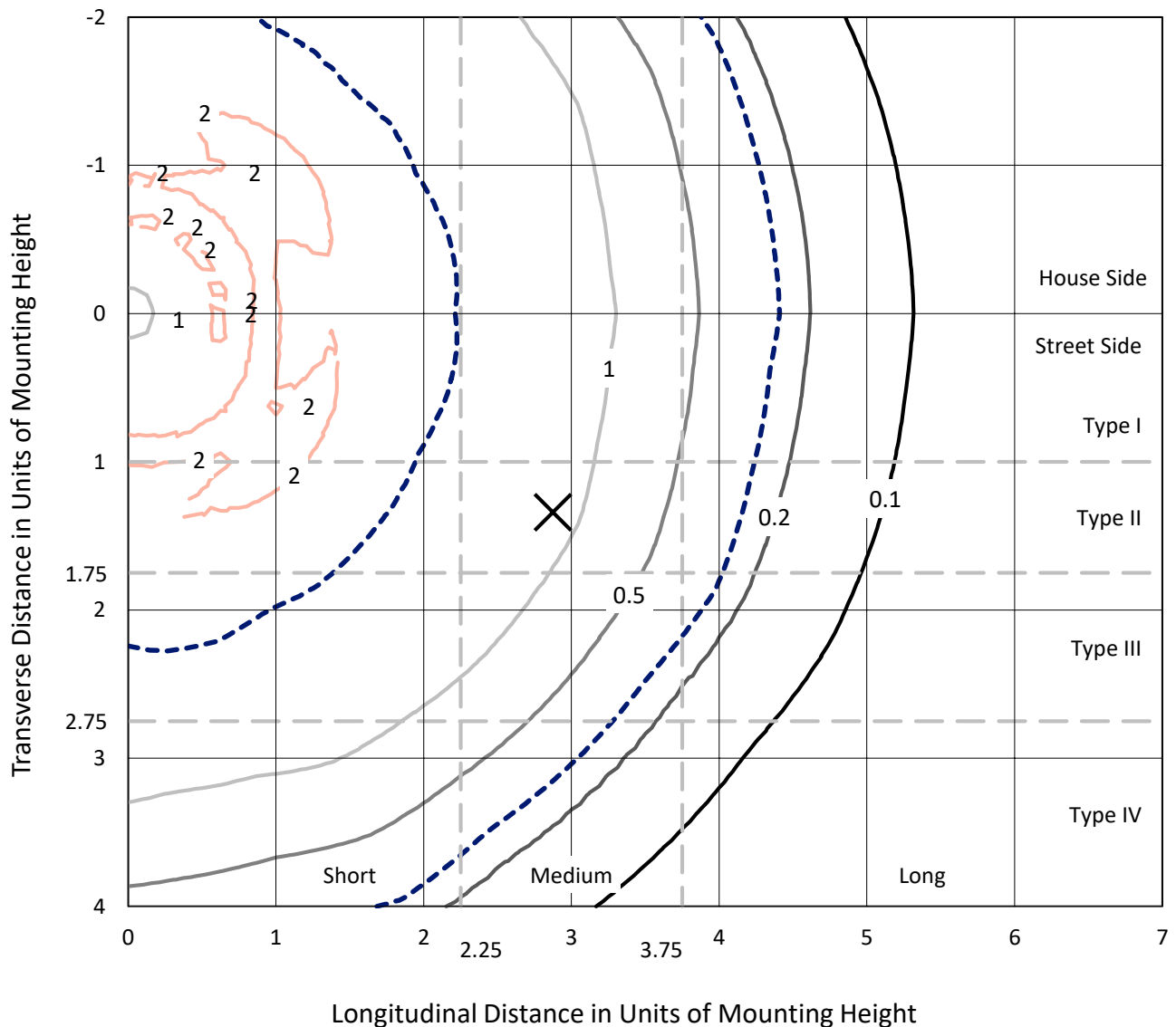
Input Watts (W): 185
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

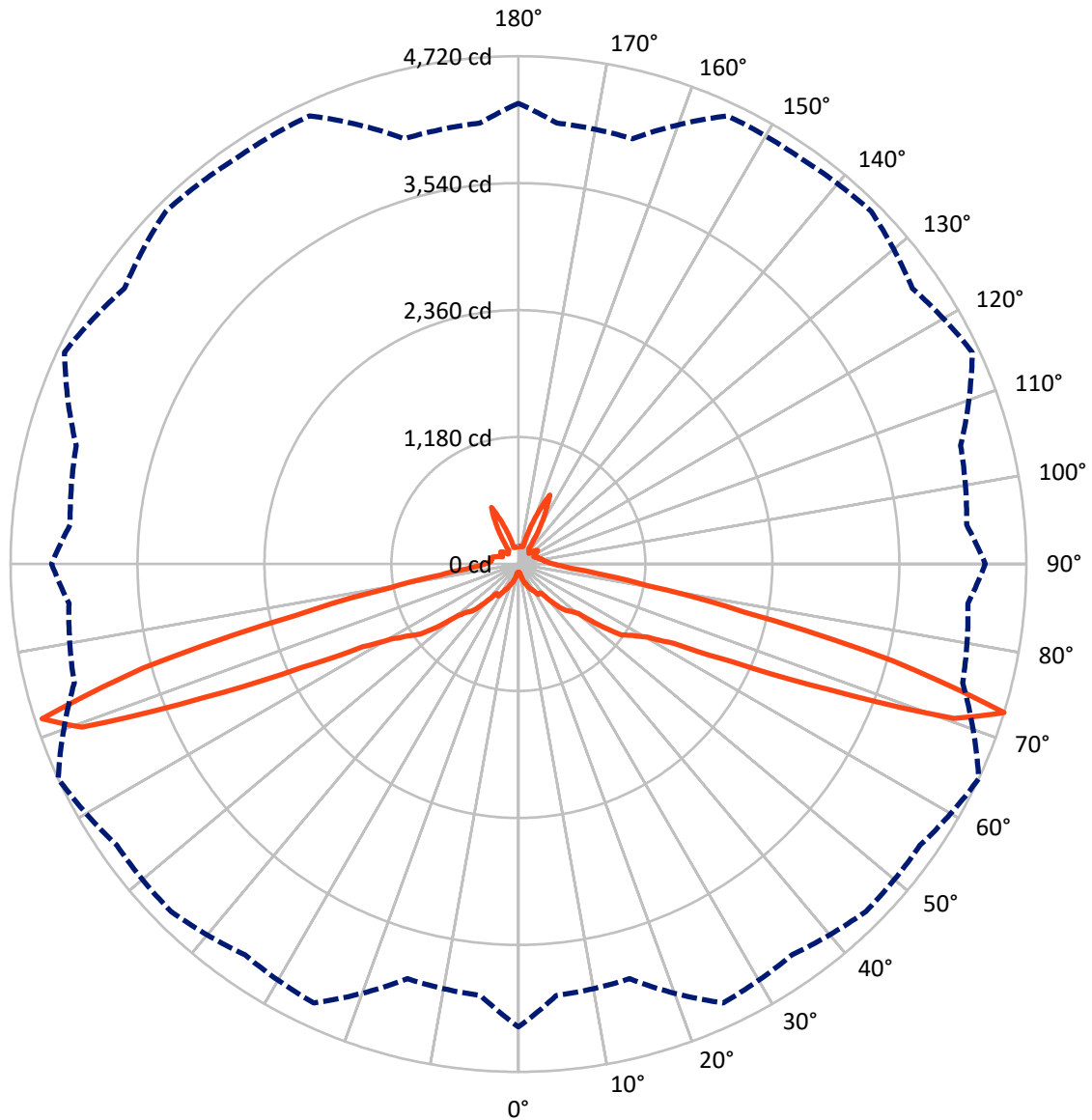
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical



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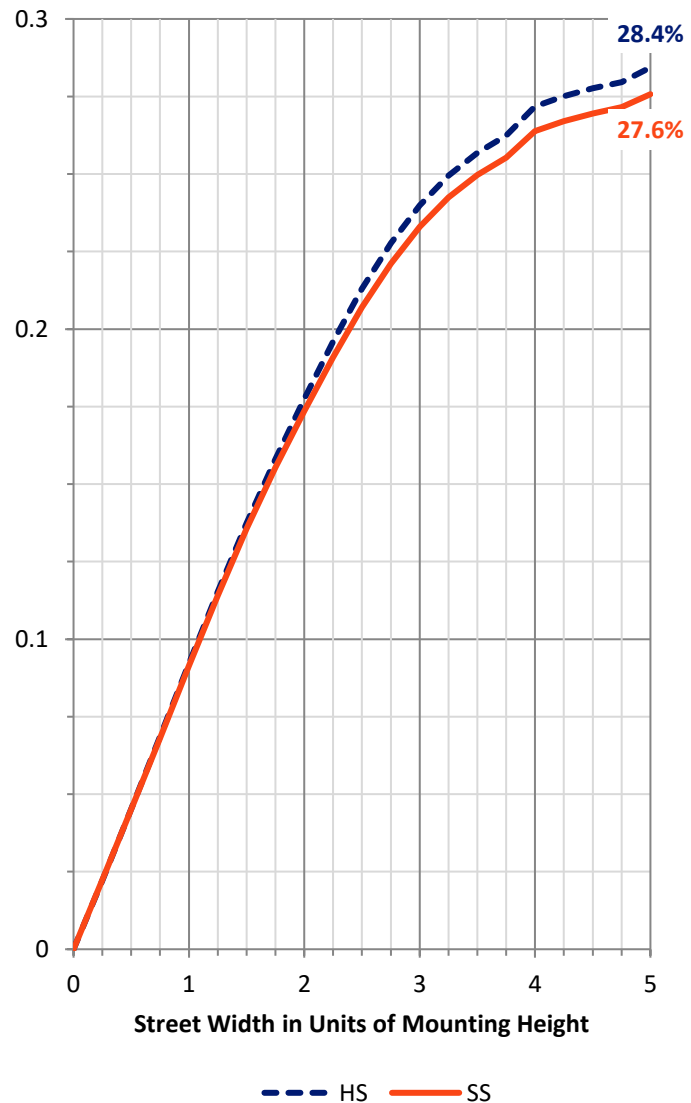
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|--------|----------|--------|--------|
| House Side | Lumens | 4058.5 | 682.7 | 4741.2 |
| | % Lamp | 29.0 | 4.9 | 33.9 |
| Street Side | Lumens | 3978.1 | 693.5 | 4671.5 |
| | % Lamp | 28.4 | 5.0 | 33.4 |
| Total | Lumens | 8036.6 | 1376.1 | 9412.7 |
| | % Lamp | 57.4 | 9.8 | 67.2 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10° | 8.3 | 0.1 | 0.1 |
| 10°-20° | 43.8 | 0.5 | 0.3 |
| 20°-30° | 113.6 | 1.2 | 0.8 |
| 30°-40° | 216.0 | 2.3 | 1.5 |
| 40°-50° | 450.4 | 4.8 | 3.2 |
| 50°-60° | 957.2 | 10.2 | 6.8 |
| 60°-70° | 2341.8 | 24.9 | 16.7 |
| 70°-80° | 3286.4 | 34.9 | 23.5 |
| 80°-90° | 619.1 | 6.6 | 4.4 |
| 90°-100° | 275.8 | 2.9 | 2.0 |
| 100°-110° | 209.4 | 2.2 | 1.5 |
| 110°-120° | 172.6 | 1.8 | 1.2 |
| 120°-130° | 152.7 | 1.6 | 1.1 |
| 130°-140° | 121.9 | 1.3 | 0.9 |
| 140°-150° | 170.8 | 1.8 | 1.2 |
| 150°-160° | 183.1 | 1.9 | 1.3 |
| 160°-170° | 79.1 | 0.8 | 0.6 |
| 170°-180° | 15.5 | 0.2 | 0.1 |
| 0°-90° | 8036.6 | 85.4 | 57.4 |
| 0°-180° | 9412.7 | 100.0 | 67.2 |

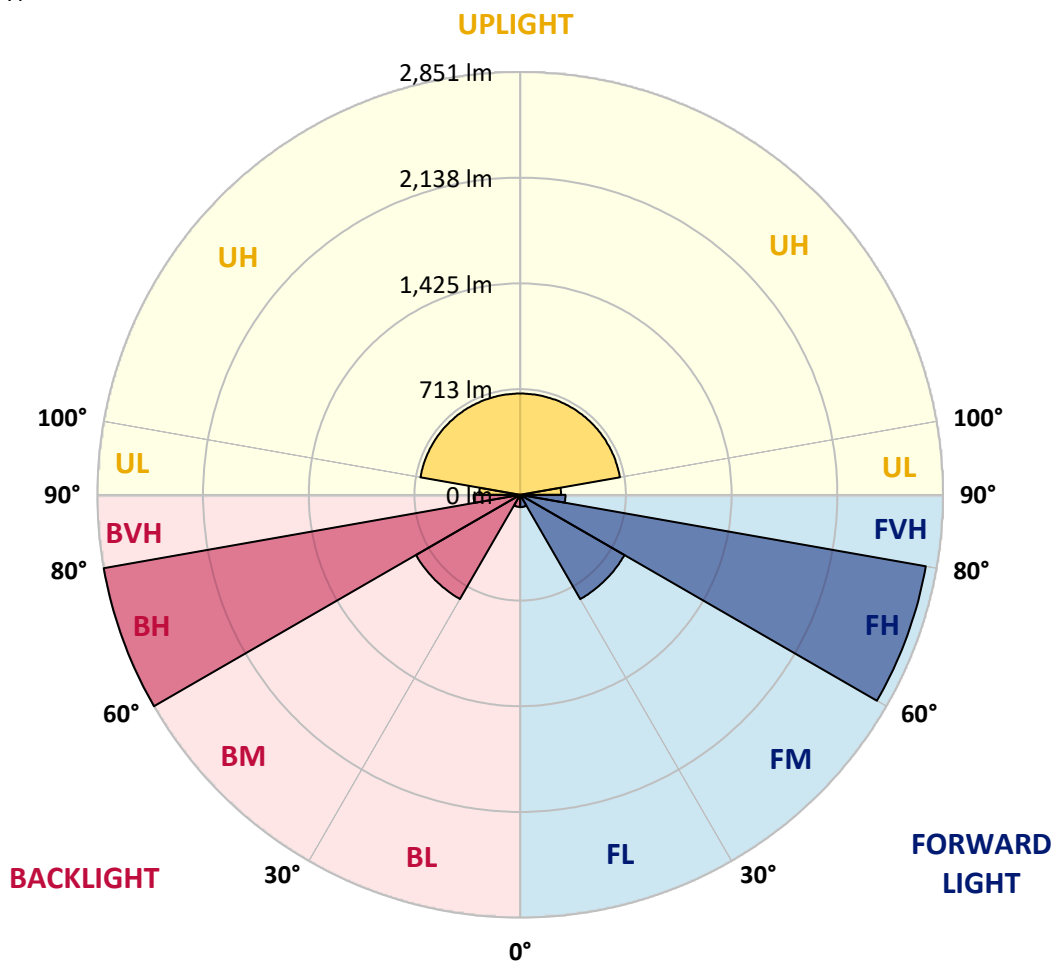


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Lamp | Zone Rating/Lumen Limit | | |
|----------------|--------|--------|-------------------------|---------|---------|
| | | | B | U | G |
| FL (0°-30°) | 83.7 | 0.6 | | | |
| FM (30°-60°) | 812.0 | 5.8 | | | |
| FH (60°-80°) | 2777.2 | 19.8 | | | G2/5000 |
| FVH (80°-90°) | 305.2 | 2.2 | | | G3/500 |
| BL (0°-30°) | 82.0 | 0.6 | B0/110 | | |
| BM (30°-60°) | 811.6 | 5.8 | B1/1000 | | |
| BH (60°-80°) | 2851.0 | 20.4 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 314.0 | 2.2 | | | G3/500 |
| UL (90°-100°) | 275.8 | 2.0 | | U3/500 | |
| UH (100°-180°) | 682.7 | 4.9 | | U4/1000 | |
| Trapped Light | 4587.3 | 32.8 | | | |

BUG Rating: B4-U5-G3
 Type V Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| 0° | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 |
| 2.5° | 76 | 76 | 78 | 79 | 80 | 79 | 79 | 79 | 78 | 77 | 76 |
| 5° | 73 | 74 | 75 | 76 | 79 | 80 | 80 | 78 | 77 | 76 | 75 |
| 7.5° | 86 | 86 | 87 | 88 | 91 | 92 | 91 | 91 | 88 | 88 | 87 |
| 10° | 101 | 100 | 102 | 101 | 103 | 103 | 103 | 103 | 103 | 102 | 102 |
| 12.5° | 131 | 129 | 128 | 126 | 126 | 125 | 125 | 124 | 127 | 129 | 128 |
| 15° | 163 | 165 | 162 | 160 | 157 | 154 | 151 | 152 | 155 | 153 | 151 |
| 17.5° | 176 | 176 | 177 | 180 | 181 | 181 | 182 | 183 | 182 | 178 | 178 |
| 20° | 177 | 177 | 185 | 192 | 194 | 193 | 194 | 193 | 190 | 186 | 184 |
| 22.5° | 211 | 210 | 211 | 215 | 217 | 220 | 222 | 225 | 227 | 224 | 222 |
| 25° | 251 | 248 | 242 | 243 | 250 | 255 | 256 | 255 | 258 | 259 | 257 |
| 27.5° | 266 | 263 | 263 | 260 | 267 | 272 | 271 | 270 | 276 | 276 | 276 |
| 30° | 281 | 278 | 277 | 278 | 280 | 287 | 290 | 295 | 303 | 302 | 303 |
| 32.5° | 327 | 325 | 328 | 323 | 319 | 323 | 330 | 338 | 344 | 349 | 346 |
| 35° | 340 | 337 | 330 | 323 | 320 | 320 | 327 | 334 | 337 | 335 | 341 |
| 37.5° | 356 | 351 | 338 | 329 | 330 | 325 | 331 | 342 | 346 | 343 | 340 |
| 40° | 466 | 467 | 444 | 428 | 392 | 388 | 398 | 430 | 451 | 445 | 444 |
| 42.5° | 559 | 563 | 543 | 517 | 513 | 515 | 509 | 531 | 536 | 542 | 543 |
| 45° | 585 | 603 | 583 | 610 | 617 | 625 | 618 | 614 | 599 | 590 | 590 |
| 47.5° | 552 | 570 | 617 | 649 | 668 | 677 | 665 | 656 | 617 | 576 | 566 |
| 50° | 596 | 604 | 671 | 708 | 724 | 743 | 730 | 721 | 680 | 625 | 612 |
| 52.5° | 832 | 825 | 868 | 915 | 944 | 951 | 946 | 942 | 876 | 849 | 838 |
| 55° | 1047 | 1033 | 1058 | 1103 | 1172 | 1199 | 1201 | 1163 | 1090 | 1076 | 1037 |
| 57.5° | 1118 | 1132 | 1159 | 1194 | 1254 | 1278 | 1266 | 1250 | 1174 | 1165 | 1145 |
| 60° | 1244 | 1259 | 1277 | 1369 | 1395 | 1417 | 1391 | 1383 | 1303 | 1256 | 1268 |
| 62.5° | 1413 | 1388 | 1406 | 1562 | 1593 | 1626 | 1617 | 1621 | 1489 | 1440 | 1482 |
| 65° | 1965 | 1854 | 1860 | 2087 | 2023 | 2075 | 2111 | 2191 | 2048 | 1990 | 2078 |
| 67.5° | 2922 | 2711 | 2689 | 2993 | 2863 | 2966 | 2994 | 3117 | 2955 | 2916 | 3016 |
| 70° | 3923 | 3651 | 3631 | 4098 | 4040 | 4157 | 4130 | 4295 | 3968 | 3939 | 4077 |
| 72.5° | 4302 | 4026 | 3990 | 4501 | 4433 | 4566 | 4557 | 4720 | 4274 | 4193 | 4339 |
| 75° | 3422 | 3260 | 3154 | 3531 | 3384 | 3438 | 3483 | 3598 | 3357 | 3305 | 3417 |
| 77.5° | 2174 | 2095 | 1963 | 2110 | 1909 | 1928 | 1952 | 2146 | 2127 | 2143 | 2201 |
| 80° | 1310 | 1247 | 1148 | 1165 | 1004 | 1021 | 1058 | 1225 | 1305 | 1331 | 1361 |
| 82.5° | 755 | 726 | 686 | 703 | 612 | 609 | 642 | 736 | 769 | 778 | 799 |
| 85° | 460 | 450 | 436 | 458 | 436 | 442 | 454 | 489 | 481 | 488 | 499 |
| 87.5° | 338 | 334 | 330 | 350 | 345 | 352 | 360 | 375 | 359 | 363 | 368 |
| 90° | 281 | 279 | 276 | 293 | 292 | 298 | 305 | 312 | 300 | 301 | 302 |
| 95° | 230 | 227 | 230 | 240 | 238 | 240 | 244 | 252 | 243 | 243 | 243 |
| 105° | 170 | 169 | 173 | 179 | 172 | 174 | 176 | 198 | 201 | 202 | 209 |
| 115° | 136 | 137 | 143 | 149 | 146 | 147 | 150 | 157 | 152 | 146 | 144 |
| 125° | 198 | 199 | 200 | 198 | 207 | 213 | 206 | 218 | 214 | 198 | 196 |
| 135° | 129 | 133 | 138 | 139 | 142 | 141 | 136 | 139 | 139 | 137 | 135 |
| 145° | 164 | 166 | 171 | 178 | 190 | 194 | 172 | 173 | 170 | 167 | 166 |
| 155° | 650 | 647 | 614 | 613 | 639 | 671 | 655 | 704 | 729 | 688 | 662 |
| 165° | 180 | 179 | 172 | 169 | 166 | 159 | 164 | 167 | 167 | 167 | 166 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 175° | 180 | 179 | 172 | 169 | 166 | 159 | 164 | 167 | 167 | 167 | 166 |
| 180° | 163 | 163 | 163 | 163 | 163 | 163 | 163 | 163 | 163 | 163 | 163 |



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CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|------|------|------|------|------|------|------|------|------|------|
| 0° | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 |
| 2.5° | 76 | 78 | 78 | 78 | 76 | 77 | 76 | 74 | 72 | 72 |
| 5° | 74 | 75 | 78 | 79 | 79 | 77 | 76 | 73 | 72 | 72 |
| 7.5° | 87 | 88 | 90 | 90 | 91 | 89 | 88 | 85 | 85 | 84 |
| 10° | 102 | 103 | 103 | 104 | 104 | 105 | 104 | 103 | 102 | 102 |
| 12.5° | 127 | 127 | 127 | 129 | 131 | 133 | 134 | 135 | 138 | 139 |
| 15° | 148 | 147 | 150 | 153 | 152 | 151 | 150 | 151 | 148 | 149 |
| 17.5° | 175 | 173 | 173 | 171 | 169 | 166 | 165 | 160 | 157 | 156 |
| 20° | 187 | 188 | 191 | 191 | 187 | 184 | 178 | 173 | 170 | 169 |
| 22.5° | 219 | 216 | 217 | 216 | 214 | 208 | 201 | 199 | 197 | 196 |
| 25° | 255 | 250 | 249 | 252 | 248 | 241 | 234 | 234 | 233 | 234 |
| 27.5° | 271 | 267 | 268 | 273 | 273 | 266 | 260 | 257 | 257 | 257 |
| 30° | 303 | 300 | 304 | 301 | 300 | 299 | 291 | 290 | 287 | 287 |
| 32.5° | 346 | 350 | 351 | 351 | 353 | 356 | 355 | 352 | 348 | 348 |
| 35° | 337 | 333 | 338 | 337 | 339 | 336 | 335 | 336 | 337 | 335 |
| 37.5° | 335 | 336 | 343 | 336 | 332 | 338 | 341 | 342 | 342 | 339 |
| 40° | 436 | 427 | 424 | 405 | 397 | 401 | 421 | 422 | 427 | 425 |
| 42.5° | 538 | 520 | 518 | 517 | 517 | 517 | 512 | 518 | 527 | 525 |
| 45° | 580 | 581 | 614 | 635 | 629 | 623 | 602 | 564 | 556 | 559 |
| 47.5° | 568 | 613 | 654 | 677 | 684 | 665 | 626 | 587 | 543 | 530 |
| 50° | 629 | 678 | 736 | 756 | 765 | 749 | 712 | 660 | 599 | 583 |
| 52.5° | 829 | 859 | 940 | 964 | 994 | 967 | 926 | 833 | 798 | 784 |
| 55° | 1030 | 1050 | 1119 | 1193 | 1215 | 1197 | 1114 | 1024 | 1011 | 987 |
| 57.5° | 1157 | 1175 | 1228 | 1287 | 1290 | 1256 | 1218 | 1157 | 1123 | 1115 |
| 60° | 1268 | 1297 | 1374 | 1414 | 1453 | 1411 | 1399 | 1317 | 1272 | 1272 |
| 62.5° | 1458 | 1492 | 1640 | 1659 | 1700 | 1690 | 1686 | 1551 | 1495 | 1515 |
| 65° | 1999 | 2035 | 2230 | 2169 | 2330 | 2239 | 2250 | 2141 | 2051 | 2089 |
| 67.5° | 2918 | 2950 | 3184 | 3050 | 3308 | 3147 | 3179 | 3031 | 2940 | 2981 |
| 70° | 3935 | 3953 | 4328 | 4130 | 4354 | 4270 | 4258 | 3920 | 3864 | 3989 |
| 72.5° | 4182 | 4255 | 4655 | 4469 | 4636 | 4593 | 4596 | 4092 | 4113 | 4281 |
| 75° | 3361 | 3408 | 3620 | 3394 | 3478 | 3439 | 3546 | 3216 | 3229 | 3316 |
| 77.5° | 2190 | 2161 | 2137 | 1972 | 1962 | 1979 | 2116 | 2094 | 2071 | 2066 |
| 80° | 1339 | 1305 | 1221 | 1065 | 1028 | 1063 | 1186 | 1251 | 1254 | 1249 |
| 82.5° | 777 | 775 | 731 | 650 | 623 | 644 | 721 | 746 | 732 | 732 |
| 85° | 495 | 500 | 494 | 468 | 460 | 464 | 491 | 490 | 472 | 473 |
| 87.5° | 365 | 373 | 377 | 366 | 363 | 362 | 370 | 363 | 348 | 350 |
| 90° | 301 | 309 | 315 | 306 | 306 | 304 | 308 | 302 | 289 | 289 |
| 95° | 243 | 253 | 259 | 247 | 245 | 245 | 255 | 254 | 243 | 240 |
| 105° | 207 | 242 | 251 | 183 | 174 | 174 | 238 | 238 | 245 | 208 |
| 115° | 145 | 153 | 162 | 150 | 147 | 146 | 155 | 149 | 140 | 136 |
| 125° | 198 | 201 | 200 | 190 | 189 | 191 | 184 | 190 | 194 | 190 |
| 135° | 135 | 133 | 133 | 132 | 129 | 128 | 128 | 126 | 124 | 124 |
| 145° | 165 | 163 | 155 | 150 | 150 | 150 | 142 | 137 | 135 | 134 |
| 155° | 655 | 636 | 582 | 563 | 594 | 577 | 585 | 574 | 592 | 595 |
| 165° | 165 | 161 | 158 | 156 | 152 | 143 | 153 | 160 | 166 | 166 |



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CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|------|-----|------|------|------|------|------|------|------|------|------|
| 175° | 165 | 161 | 158 | 156 | 152 | 143 | 153 | 160 | 166 | 166 |
| 180° | 163 | 163 | 163 | 163 | 163 | 163 | 163 | 163 | 163 | 163 |

(END OF REPORT)