

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: EPHESUS

Report Number: P622354

Luminaire Tested: **EPH-VN-04-E-935-U-66**

Issue Date: 09/19/2022

Test Information

Test Method: LM-79-2019
Report Number: P622354
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/19/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-04-E-935-U-66
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens
Light Source: (64) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

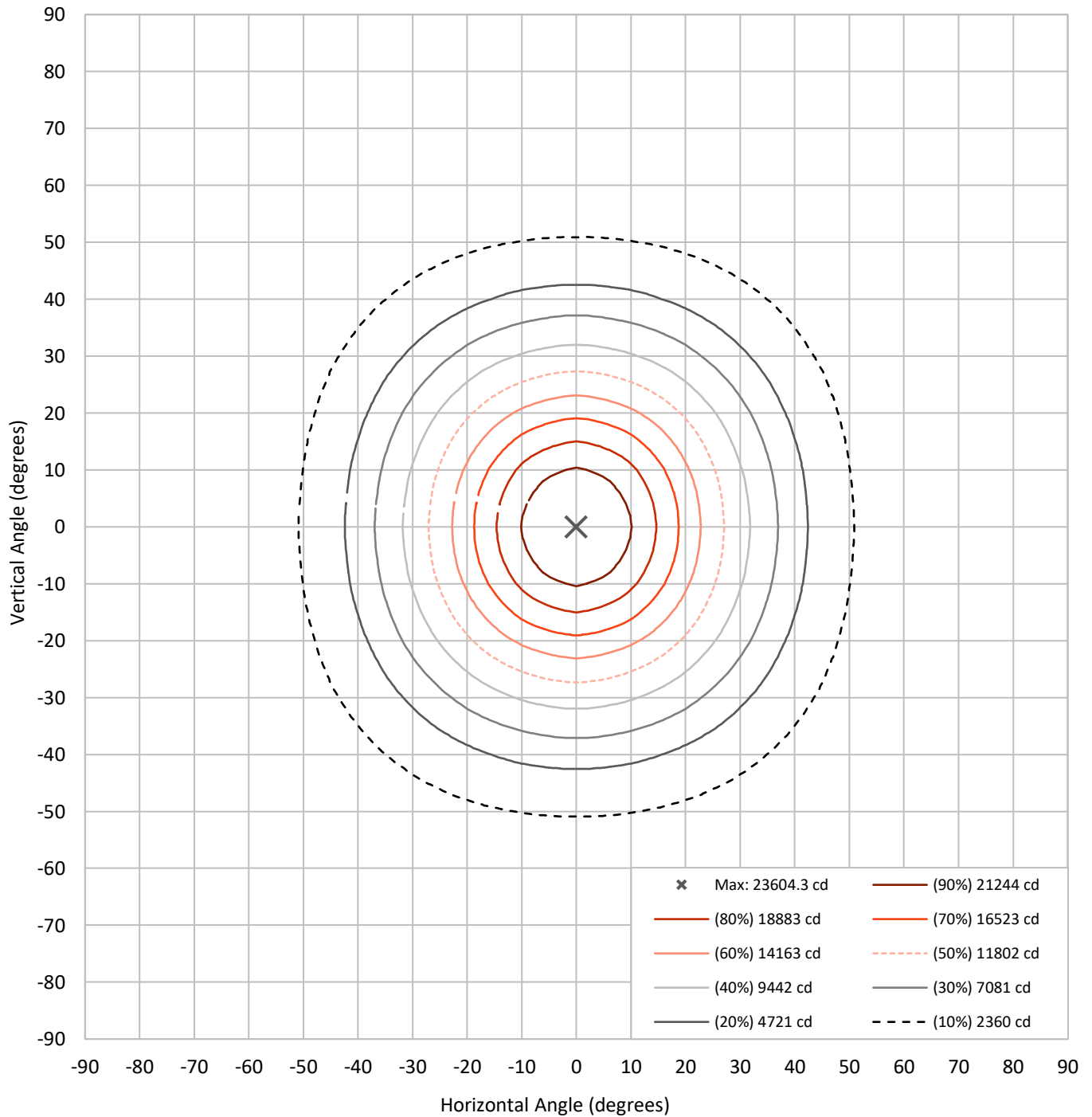
| | | | |
|-------------------|--------------------------------------|----------------------|-------------------|
| Lumens per Lamp: | N/A | NEMA Type: | 6H x 6V |
| Luminaire Lumens: | 24481.6 lumens | Max Intensity: | 23604.3 candela |
| Efficiency: | N/A | Max Intensity Angle: | 0°H x 0°V |
| Efficacy: | 80.6 lumens/watt | | |
| Luminous Opening: | Rectangular (W 2' x L: 0.5' x H: 0') | | |
| Beam Angle (50%): | 54.2°H x 54.7°V | Field Angle (10%): | 101.7°H x 101.8°V |
| Beam Lumens: | 11770.8 lumens | Field Lumens: | 21485 lumens |
| Beam Efficiency: | 48.1% | Field Efficiency: | 87.8% |

Input Watts (W): 303.8
Input Voltage (V): 120
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: 25 FT



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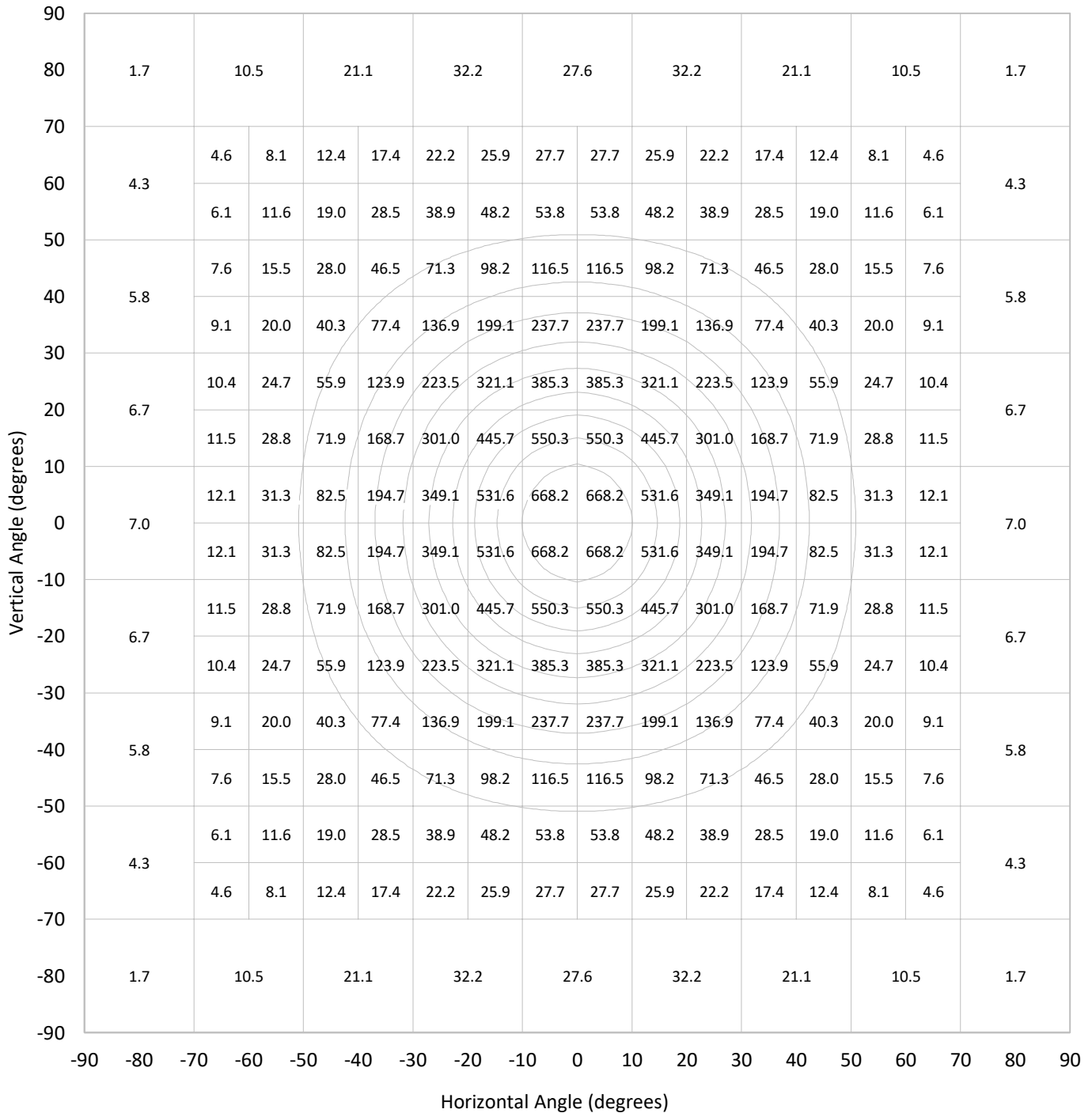
Iso-Candela Plot





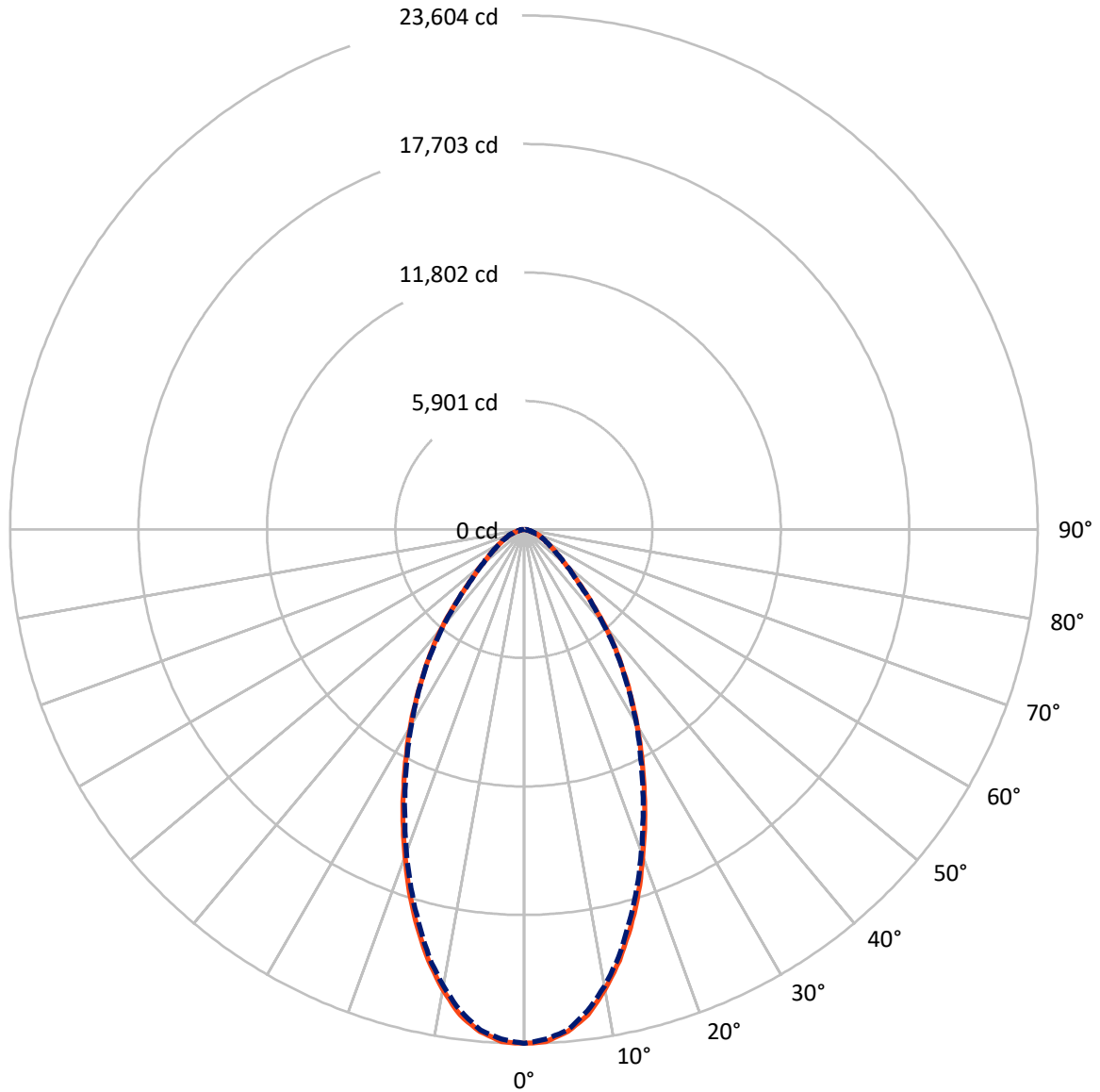
REPORT NUMBER: P622354
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Lumen Table



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CATALOG NUMBER: EPH-VN-04-E-935-U-66

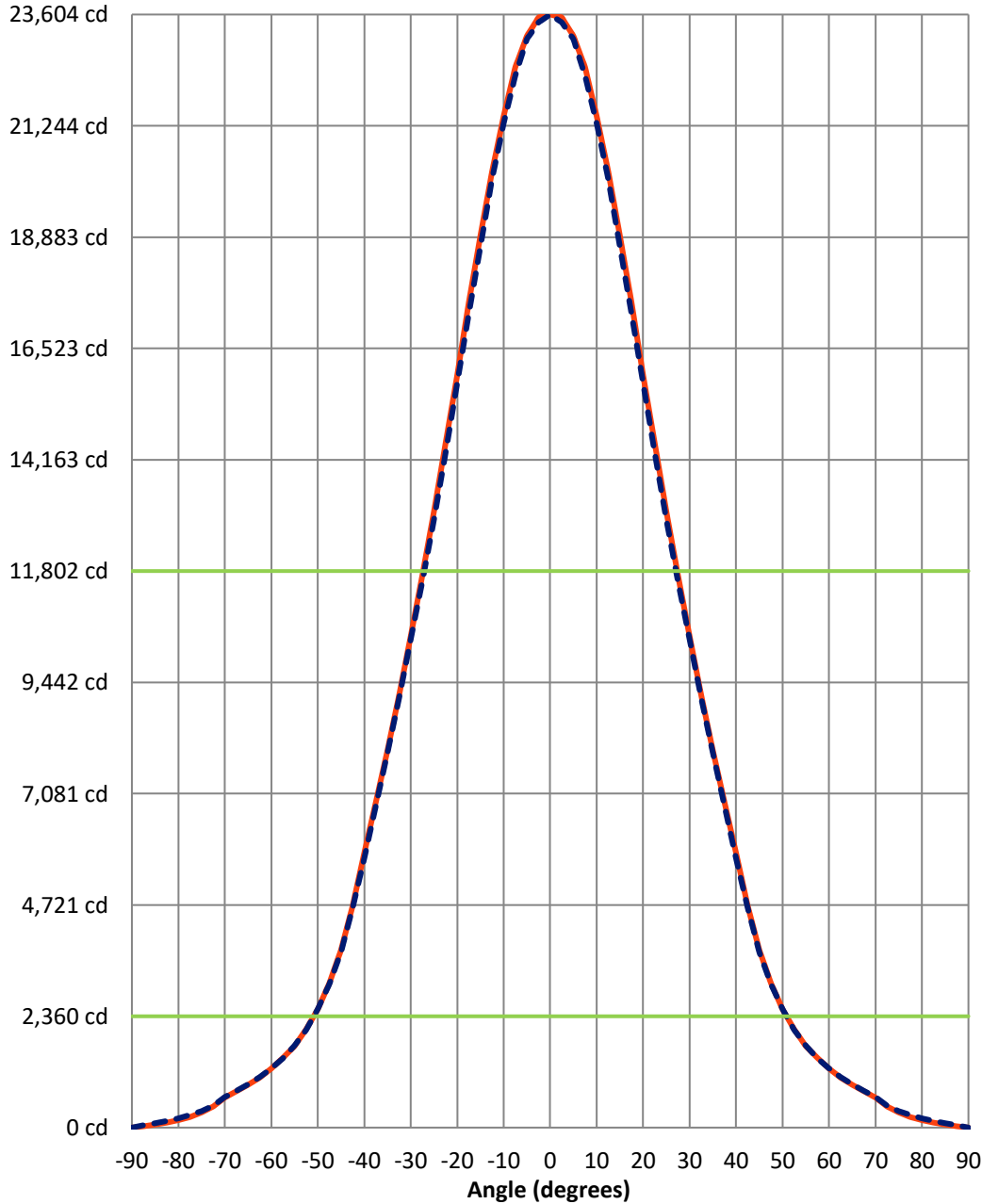
Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 0-Deg

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 CATALOG NUMBER: EPH-VN-04-E-935-U-66

Luminous Intensity Plot



Beam:
 H Angle: 54.2°
 V Angle: 54.7°
 Lumens: 11770.8
 Efficiency: 48.1%

Field:
 H Angle: 101.7°
 V Angle: 101.8°
 Lumens: 21485
 Efficiency: 87.8%

Spill:
 Lumens: 2996.6
 Efficiency: 12.2%

- Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 0-Deg



REPORT NUMBER: P622354
 CATALOG NUMBER: EPH-VN-04-E-935-U-66

FIELD
 BEAM

CANDELA DISTRIBUTION:

| | -90° | -87.5° | -85° | -82.5° | -80° | -77.5° | -75° | -72.5° | -70° | -67.5° | -65° |
|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 87.5° | 0 | 3 | 5 | 10 | 15 | 20 | 25 | 30 | 33 | 35 | 40 |
| 85° | 0 | 5 | 10 | 18 | 28 | 40 | 53 | 60 | 65 | 73 | 78 |
| 82.5° | 0 | 8 | 18 | 28 | 43 | 58 | 78 | 88 | 98 | 108 | 116 |
| 80° | 0 | 10 | 23 | 38 | 55 | 78 | 103 | 116 | 128 | 141 | 151 |
| 77.5° | 0 | 13 | 28 | 45 | 70 | 96 | 126 | 143 | 159 | 174 | 189 |
| 75° | 0 | 15 | 33 | 55 | 83 | 111 | 146 | 169 | 189 | 209 | 231 |
| 72.5° | 0 | 18 | 38 | 63 | 93 | 126 | 166 | 194 | 216 | 244 | 274 |
| 70° | 0 | 20 | 43 | 73 | 103 | 141 | 186 | 216 | 244 | 277 | 302 |
| 67.5° | 0 | 23 | 48 | 78 | 113 | 153 | 201 | 239 | 269 | 299 | 327 |
| 65° | 0 | 23 | 53 | 83 | 121 | 166 | 214 | 259 | 292 | 322 | 355 |
| 62.5° | 0 | 25 | 58 | 88 | 128 | 176 | 226 | 277 | 312 | 345 | 382 |
| 60° | 0 | 28 | 60 | 93 | 138 | 186 | 242 | 294 | 330 | 370 | 410 |
| 57.5° | 0 | 30 | 63 | 98 | 143 | 194 | 252 | 309 | 352 | 395 | 438 |
| 55° | 0 | 33 | 68 | 103 | 148 | 204 | 262 | 324 | 372 | 418 | 465 |
| 52.5° | 0 | 33 | 70 | 106 | 156 | 211 | 272 | 335 | 392 | 443 | 498 |
| 50° | 0 | 35 | 73 | 108 | 161 | 219 | 279 | 347 | 413 | 468 | 526 |
| 47.5° | 0 | 38 | 76 | 111 | 164 | 224 | 289 | 360 | 435 | 493 | 556 |
| 45° | 0 | 38 | 78 | 113 | 169 | 231 | 297 | 367 | 450 | 518 | 584 |
| 42.5° | 0 | 40 | 78 | 116 | 171 | 236 | 304 | 380 | 463 | 543 | 614 |
| 40° | 0 | 43 | 81 | 121 | 176 | 239 | 312 | 390 | 478 | 568 | 641 |
| 37.5° | 0 | 43 | 83 | 123 | 179 | 244 | 317 | 400 | 493 | 586 | 667 |
| 35° | 0 | 45 | 86 | 126 | 181 | 247 | 319 | 410 | 506 | 604 | 694 |
| 32.5° | 0 | 45 | 86 | 131 | 184 | 252 | 324 | 418 | 521 | 624 | 719 |
| 30° | 0 | 45 | 88 | 133 | 184 | 252 | 332 | 425 | 533 | 644 | 745 |
| 27.5° | 0 | 48 | 88 | 133 | 189 | 254 | 337 | 435 | 546 | 667 | 770 |
| 25° | 0 | 48 | 91 | 136 | 191 | 254 | 340 | 443 | 561 | 687 | 792 |
| 22.5° | 0 | 48 | 91 | 138 | 194 | 257 | 342 | 450 | 576 | 704 | 817 |
| 20° | 0 | 50 | 93 | 141 | 196 | 259 | 345 | 458 | 591 | 719 | 838 |
| 17.5° | 0 | 50 | 93 | 141 | 199 | 264 | 347 | 463 | 604 | 734 | 855 |
| 15° | 0 | 53 | 93 | 141 | 199 | 267 | 352 | 465 | 616 | 747 | 873 |
| 12.5° | 0 | 53 | 93 | 143 | 199 | 267 | 355 | 470 | 629 | 760 | 885 |
| 10° | 0 | 50 | 96 | 143 | 199 | 269 | 357 | 473 | 636 | 767 | 898 |
| 7.5° | 0 | 50 | 96 | 143 | 201 | 269 | 357 | 473 | 644 | 775 | 905 |
| 5° | 0 | 50 | 93 | 143 | 199 | 272 | 357 | 475 | 654 | 782 | 913 |
| 2.5° | 0 | 50 | 93 | 141 | 199 | 272 | 352 | 470 | 651 | 782 | 918 |
| 0° | 0 | 50 | 93 | 141 | 196 | 269 | 350 | 465 | 649 | 780 | 918 |
| -2.5° | 0 | 50 | 93 | 141 | 199 | 272 | 352 | 470 | 651 | 782 | 918 |
| -5° | 0 | 50 | 93 | 143 | 199 | 272 | 357 | 475 | 654 | 782 | 913 |
| -7.5° | 0 | 50 | 96 | 143 | 201 | 269 | 357 | 473 | 644 | 775 | 905 |
| -10° | 0 | 50 | 96 | 143 | 199 | 269 | 357 | 473 | 636 | 767 | 898 |
| -12.5° | 0 | 53 | 93 | 143 | 199 | 267 | 355 | 470 | 629 | 760 | 885 |
| -15° | 0 | 53 | 93 | 141 | 199 | 267 | 352 | 465 | 616 | 747 | 873 |
| -17.5° | 0 | 50 | 93 | 141 | 199 | 264 | 347 | 463 | 604 | 734 | 855 |
| -20° | 0 | 50 | 93 | 141 | 196 | 259 | 345 | 458 | 591 | 719 | 838 |



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 CATALOG NUMBER: EPH-VN-04-E-935-U-66

CANDELA DISTRIBUTION (continued):

| | -90° | -87.5° | -85° | -82.5° | -80° | -77.5° | -75° | -72.5° | -70° | -67.5° | -65° |
|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| -22.5° | 0 | 48 | 91 | 138 | 194 | 257 | 342 | 450 | 576 | 704 | 817 |
| -25° | 0 | 48 | 91 | 136 | 191 | 254 | 340 | 443 | 561 | 687 | 792 |
| -27.5° | 0 | 48 | 88 | 133 | 189 | 254 | 337 | 435 | 546 | 667 | 770 |
| -30° | 0 | 45 | 88 | 133 | 184 | 252 | 332 | 425 | 533 | 644 | 745 |
| -32.5° | 0 | 45 | 86 | 131 | 184 | 252 | 324 | 418 | 521 | 624 | 719 |
| -35° | 0 | 45 | 86 | 126 | 181 | 247 | 319 | 410 | 506 | 604 | 694 |
| -37.5° | 0 | 43 | 83 | 123 | 179 | 244 | 317 | 400 | 493 | 586 | 667 |
| -40° | 0 | 43 | 81 | 121 | 176 | 239 | 312 | 390 | 478 | 568 | 641 |
| -42.5° | 0 | 40 | 78 | 116 | 171 | 236 | 304 | 380 | 463 | 543 | 614 |
| -45° | 0 | 38 | 78 | 113 | 169 | 231 | 297 | 367 | 450 | 518 | 584 |
| -47.5° | 0 | 38 | 76 | 111 | 164 | 224 | 289 | 360 | 435 | 493 | 556 |
| -50° | 0 | 35 | 73 | 108 | 161 | 219 | 279 | 347 | 413 | 468 | 526 |
| -52.5° | 0 | 33 | 70 | 106 | 156 | 211 | 272 | 335 | 392 | 443 | 498 |
| -55° | 0 | 33 | 68 | 103 | 148 | 204 | 262 | 324 | 372 | 418 | 465 |
| -57.5° | 0 | 30 | 63 | 98 | 143 | 194 | 252 | 309 | 352 | 395 | 438 |
| -60° | 0 | 28 | 60 | 93 | 138 | 186 | 242 | 294 | 330 | 370 | 410 |
| -62.5° | 0 | 25 | 58 | 88 | 128 | 176 | 226 | 277 | 312 | 345 | 382 |
| -65° | 0 | 23 | 53 | 83 | 121 | 166 | 214 | 259 | 292 | 322 | 355 |
| -67.5° | 0 | 23 | 48 | 78 | 113 | 153 | 201 | 239 | 269 | 299 | 327 |
| -70° | 0 | 20 | 43 | 73 | 103 | 141 | 186 | 216 | 244 | 277 | 302 |
| -72.5° | 0 | 18 | 38 | 63 | 93 | 126 | 166 | 194 | 216 | 244 | 274 |
| -75° | 0 | 15 | 33 | 55 | 83 | 111 | 146 | 169 | 189 | 209 | 231 |
| -77.5° | 0 | 13 | 28 | 45 | 70 | 96 | 126 | 143 | 159 | 174 | 189 |
| -80° | 0 | 10 | 23 | 38 | 55 | 78 | 103 | 116 | 128 | 141 | 151 |
| -82.5° | 0 | 8 | 18 | 28 | 43 | 58 | 78 | 88 | 98 | 108 | 116 |
| -85° | 0 | 5 | 10 | 18 | 28 | 40 | 53 | 60 | 65 | 73 | 78 |
| -87.5° | 0 | 3 | 5 | 10 | 15 | 20 | 25 | 30 | 33 | 35 | 40 |
| -90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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 CATALOG NUMBER: EPH-VN-04-E-935-U-66

CANDELA DISTRIBUTION (continued):

| | -62.5° | -60° | -57.5° | -55° | -52.5° | -50° | -47.5° | -45° | -42.5° | -40° | -37.5° |
|--------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 87.5° | 43 | 45 | 48 | 48 | 48 | 45 | 43 | 40 | 45 | 50 | 55 |
| 85° | 83 | 91 | 93 | 98 | 96 | 91 | 88 | 83 | 93 | 103 | 116 |
| 82.5° | 123 | 131 | 136 | 141 | 141 | 136 | 131 | 123 | 138 | 153 | 171 |
| 80° | 161 | 171 | 181 | 189 | 189 | 181 | 174 | 164 | 181 | 204 | 226 |
| 77.5° | 206 | 219 | 229 | 239 | 236 | 234 | 229 | 224 | 242 | 264 | 287 |
| 75° | 252 | 269 | 277 | 287 | 292 | 289 | 289 | 294 | 314 | 342 | 367 |
| 72.5° | 292 | 304 | 319 | 337 | 345 | 350 | 362 | 377 | 397 | 420 | 440 |
| 70° | 324 | 340 | 360 | 377 | 392 | 407 | 425 | 445 | 465 | 488 | 508 |
| 67.5° | 355 | 377 | 397 | 420 | 440 | 463 | 485 | 508 | 531 | 556 | 581 |
| 65° | 387 | 413 | 438 | 463 | 490 | 518 | 546 | 571 | 599 | 631 | 659 |
| 62.5° | 420 | 448 | 478 | 508 | 541 | 573 | 606 | 639 | 677 | 712 | 747 |
| 60° | 450 | 485 | 521 | 558 | 596 | 634 | 669 | 712 | 757 | 797 | 843 |
| 57.5° | 480 | 523 | 563 | 606 | 649 | 692 | 742 | 790 | 843 | 895 | 946 |
| 55° | 513 | 563 | 609 | 656 | 704 | 760 | 815 | 875 | 933 | 1001 | 1064 |
| 52.5° | 548 | 601 | 654 | 707 | 767 | 828 | 893 | 963 | 1039 | 1117 | 1195 |
| 50° | 584 | 641 | 699 | 762 | 830 | 900 | 978 | 1061 | 1152 | 1243 | 1338 |
| 47.5° | 616 | 679 | 750 | 817 | 895 | 978 | 1069 | 1170 | 1270 | 1383 | 1504 |
| 45° | 651 | 719 | 795 | 878 | 963 | 1061 | 1170 | 1280 | 1409 | 1537 | 1678 |
| 42.5° | 687 | 760 | 845 | 933 | 1039 | 1149 | 1268 | 1409 | 1552 | 1710 | 1881 |
| 40° | 717 | 800 | 895 | 1001 | 1114 | 1237 | 1383 | 1537 | 1713 | 1901 | 2113 |
| 37.5° | 752 | 843 | 946 | 1061 | 1192 | 1336 | 1504 | 1683 | 1886 | 2115 | 2369 |
| 35° | 785 | 885 | 999 | 1124 | 1270 | 1436 | 1625 | 1834 | 2070 | 2347 | 2656 |
| 32.5° | 817 | 928 | 1049 | 1187 | 1348 | 1537 | 1751 | 1997 | 2276 | 2593 | 2980 |
| 30° | 850 | 966 | 1097 | 1248 | 1429 | 1642 | 1889 | 2163 | 2485 | 2885 | 3345 |
| 27.5° | 880 | 1006 | 1147 | 1313 | 1507 | 1741 | 2020 | 2347 | 2726 | 3177 | 3715 |
| 25° | 911 | 1041 | 1195 | 1373 | 1590 | 1846 | 2150 | 2510 | 2965 | 3499 | 4137 |
| 22.5° | 938 | 1077 | 1237 | 1431 | 1665 | 1949 | 2291 | 2701 | 3202 | 3795 | 4547 |
| 20° | 966 | 1112 | 1283 | 1486 | 1730 | 2042 | 2420 | 2877 | 3446 | 4145 | 4980 |
| 17.5° | 988 | 1144 | 1326 | 1544 | 1811 | 2138 | 2538 | 3053 | 3667 | 4467 | 5397 |
| 15° | 1011 | 1172 | 1363 | 1595 | 1881 | 2233 | 2666 | 3207 | 3901 | 4771 | 5760 |
| 12.5° | 1029 | 1195 | 1396 | 1640 | 1942 | 2314 | 2777 | 3363 | 4127 | 5058 | 6074 |
| 10° | 1041 | 1215 | 1421 | 1675 | 1992 | 2379 | 2867 | 3489 | 4311 | 5292 | 6336 |
| 7.5° | 1054 | 1230 | 1441 | 1703 | 2030 | 2430 | 2938 | 3587 | 4452 | 5473 | 6537 |
| 5° | 1064 | 1243 | 1456 | 1723 | 2055 | 2467 | 2991 | 3649 | 4552 | 5601 | 6680 |
| 2.5° | 1071 | 1253 | 1469 | 1741 | 2075 | 2508 | 3038 | 3717 | 4648 | 5709 | 6808 |
| 0° | 1071 | 1255 | 1469 | 1741 | 2073 | 2515 | 3046 | 3722 | 4661 | 5707 | 6826 |
| -2.5° | 1071 | 1253 | 1469 | 1741 | 2075 | 2508 | 3038 | 3717 | 4648 | 5709 | 6808 |
| -5° | 1064 | 1243 | 1456 | 1723 | 2055 | 2467 | 2991 | 3649 | 4552 | 5601 | 6680 |
| -7.5° | 1054 | 1230 | 1441 | 1703 | 2030 | 2430 | 2938 | 3587 | 4452 | 5473 | 6537 |
| -10° | 1041 | 1215 | 1421 | 1675 | 1992 | 2379 | 2867 | 3489 | 4311 | 5292 | 6336 |
| -12.5° | 1029 | 1195 | 1396 | 1640 | 1942 | 2314 | 2777 | 3363 | 4127 | 5058 | 6074 |
| -15° | 1011 | 1172 | 1363 | 1595 | 1881 | 2233 | 2666 | 3207 | 3901 | 4771 | 5760 |
| -17.5° | 988 | 1144 | 1326 | 1544 | 1811 | 2138 | 2538 | 3053 | 3667 | 4467 | 5397 |
| -20° | 966 | 1112 | 1283 | 1486 | 1730 | 2042 | 2420 | 2877 | 3446 | 4145 | 4980 |



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CANDELA DISTRIBUTION (continued):

| | -62.5° | -60° | -57.5° | -55° | -52.5° | -50° | -47.5° | -45° | -42.5° | -40° | -37.5° |
|--------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|
| -22.5° | 938 | 1077 | 1237 | 1431 | 1665 | 1949 | 2291 | 2701 | 3202 | 3795 | 4547 |
| -25° | 911 | 1041 | 1195 | 1373 | 1590 | 1846 | 2150 | 2510 | 2965 | 3499 | 4137 |
| -27.5° | 880 | 1006 | 1147 | 1313 | 1507 | 1741 | 2020 | 2347 | 2726 | 3177 | 3715 |
| -30° | 850 | 966 | 1097 | 1248 | 1429 | 1642 | 1889 | 2163 | 2485 | 2885 | 3345 |
| -32.5° | 817 | 928 | 1049 | 1187 | 1348 | 1537 | 1751 | 1997 | 2276 | 2593 | 2980 |
| -35° | 785 | 885 | 999 | 1124 | 1270 | 1436 | 1625 | 1834 | 2070 | 2347 | 2656 |
| -37.5° | 752 | 843 | 946 | 1061 | 1192 | 1336 | 1504 | 1683 | 1886 | 2115 | 2369 |
| -40° | 717 | 800 | 895 | 1001 | 1114 | 1237 | 1383 | 1537 | 1713 | 1901 | 2113 |
| -42.5° | 687 | 760 | 845 | 933 | 1039 | 1149 | 1268 | 1409 | 1552 | 1710 | 1881 |
| -45° | 651 | 719 | 795 | 878 | 963 | 1061 | 1170 | 1280 | 1409 | 1537 | 1678 |
| -47.5° | 616 | 679 | 750 | 817 | 895 | 978 | 1069 | 1170 | 1270 | 1383 | 1504 |
| -50° | 584 | 641 | 699 | 762 | 830 | 900 | 978 | 1061 | 1152 | 1243 | 1338 |
| -52.5° | 548 | 601 | 654 | 707 | 767 | 828 | 893 | 963 | 1039 | 1117 | 1195 |
| -55° | 513 | 563 | 609 | 656 | 704 | 760 | 815 | 875 | 933 | 1001 | 1064 |
| -57.5° | 480 | 523 | 563 | 606 | 649 | 692 | 742 | 790 | 843 | 895 | 946 |
| -60° | 450 | 485 | 521 | 558 | 596 | 634 | 669 | 712 | 757 | 797 | 843 |
| -62.5° | 420 | 448 | 478 | 508 | 541 | 573 | 606 | 639 | 677 | 712 | 747 |
| -65° | 387 | 413 | 438 | 463 | 490 | 518 | 546 | 571 | 599 | 631 | 659 |
| -67.5° | 355 | 377 | 397 | 420 | 440 | 463 | 485 | 508 | 531 | 556 | 581 |
| -70° | 324 | 340 | 360 | 377 | 392 | 407 | 425 | 445 | 465 | 488 | 508 |
| -72.5° | 292 | 304 | 319 | 337 | 345 | 350 | 362 | 377 | 397 | 420 | 440 |
| -75° | 252 | 269 | 277 | 287 | 292 | 289 | 289 | 294 | 314 | 342 | 367 |
| -77.5° | 206 | 219 | 229 | 239 | 236 | 234 | 229 | 224 | 242 | 264 | 287 |
| -80° | 161 | 171 | 181 | 189 | 189 | 181 | 174 | 164 | 181 | 204 | 226 |
| -82.5° | 123 | 131 | 136 | 141 | 141 | 136 | 131 | 123 | 138 | 153 | 171 |
| -85° | 83 | 91 | 93 | 98 | 96 | 91 | 88 | 83 | 93 | 103 | 116 |
| -87.5° | 43 | 45 | 48 | 48 | 48 | 45 | 43 | 40 | 45 | 50 | 55 |
| -90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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 CATALOG NUMBER: EPH-VN-04-E-935-U-66

CANDELA DISTRIBUTION (continued):

| | -35° | -32.5° | -30° | -27.5° | -25° | -22.5° | -20° | -17.5° | -15° | -12.5° | -10° |
|--------|------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 87.5° | 63 | 63 | 63 | 63 | 60 | 63 | 63 | 65 | 68 | 60 | 53 |
| 85° | 126 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 116 | 103 |
| 82.5° | 189 | 196 | 201 | 209 | 214 | 214 | 211 | 209 | 204 | 184 | 161 |
| 80° | 249 | 262 | 269 | 277 | 284 | 282 | 279 | 274 | 272 | 247 | 221 |
| 77.5° | 309 | 324 | 335 | 342 | 350 | 352 | 350 | 350 | 347 | 324 | 297 |
| 75° | 387 | 400 | 410 | 420 | 430 | 435 | 438 | 438 | 438 | 418 | 392 |
| 72.5° | 458 | 473 | 488 | 503 | 516 | 523 | 531 | 536 | 541 | 531 | 516 |
| 70° | 531 | 548 | 566 | 584 | 601 | 614 | 624 | 634 | 639 | 641 | 641 |
| 67.5° | 606 | 629 | 651 | 674 | 694 | 712 | 724 | 737 | 747 | 757 | 762 |
| 65° | 689 | 719 | 747 | 772 | 795 | 817 | 835 | 853 | 868 | 880 | 888 |
| 62.5° | 782 | 817 | 850 | 883 | 908 | 936 | 963 | 988 | 1009 | 1026 | 1039 |
| 60° | 885 | 928 | 968 | 1009 | 1049 | 1082 | 1117 | 1147 | 1172 | 1195 | 1215 |
| 57.5° | 1001 | 1054 | 1104 | 1157 | 1202 | 1245 | 1288 | 1331 | 1368 | 1398 | 1424 |
| 55° | 1129 | 1195 | 1260 | 1323 | 1386 | 1444 | 1499 | 1554 | 1605 | 1645 | 1680 |
| 52.5° | 1278 | 1356 | 1439 | 1517 | 1602 | 1678 | 1748 | 1824 | 1891 | 1952 | 2002 |
| 50° | 1436 | 1537 | 1645 | 1746 | 1856 | 1962 | 2057 | 2153 | 2249 | 2332 | 2399 |
| 47.5° | 1622 | 1743 | 1884 | 2022 | 2158 | 2301 | 2435 | 2560 | 2691 | 2802 | 2895 |
| 45° | 1824 | 1992 | 2158 | 2344 | 2515 | 2709 | 2892 | 3076 | 3237 | 3398 | 3534 |
| 42.5° | 2062 | 2274 | 2485 | 2724 | 2958 | 3202 | 3461 | 3692 | 3934 | 4170 | 4366 |
| 40° | 2347 | 2596 | 2887 | 3174 | 3499 | 3805 | 4173 | 4497 | 4804 | 5103 | 5357 |
| 37.5° | 2659 | 2988 | 3348 | 3712 | 4153 | 4585 | 5015 | 5423 | 5787 | 6122 | 6388 |
| 35° | 3018 | 3433 | 3861 | 4391 | 4915 | 5443 | 5936 | 6398 | 6813 | 7153 | 7435 |
| 32.5° | 3431 | 3921 | 4512 | 5128 | 5735 | 6321 | 6909 | 7367 | 7799 | 8187 | 8519 |
| 30° | 3868 | 4507 | 5196 | 5885 | 6547 | 7183 | 7777 | 8328 | 8831 | 9266 | 9638 |
| 27.5° | 4381 | 5121 | 5888 | 6627 | 7337 | 8023 | 8697 | 9326 | 9877 | 10335 | 10797 |
| 25° | 4889 | 5737 | 6557 | 7339 | 8106 | 8873 | 9615 | 10322 | 10966 | 11527 | 12027 |
| 22.5° | 5425 | 6310 | 7176 | 8006 | 8876 | 9711 | 10523 | 11328 | 12068 | 12714 | 13277 |
| 20° | 5921 | 6871 | 7754 | 8680 | 9623 | 10528 | 11441 | 12312 | 13136 | 13916 | 14558 |
| 17.5° | 6363 | 7332 | 8295 | 9271 | 10299 | 11326 | 12317 | 13260 | 14200 | 15108 | 15908 |
| 15° | 6758 | 7774 | 8763 | 9827 | 10936 | 12040 | 13144 | 14183 | 15242 | 16248 | 17143 |
| 12.5° | 7108 | 8157 | 9208 | 10340 | 11499 | 12649 | 13858 | 15066 | 16240 | 17324 | 18295 |
| 10° | 7397 | 8486 | 9613 | 10785 | 11990 | 13204 | 14507 | 15848 | 17105 | 18257 | 19314 |
| 7.5° | 7616 | 8735 | 9912 | 11129 | 12400 | 13700 | 15061 | 16426 | 17757 | 18994 | 20101 |
| 5° | 7772 | 8901 | 10111 | 11353 | 12676 | 14034 | 15486 | 16942 | 18300 | 19580 | 20712 |
| 2.5° | 7913 | 9049 | 10282 | 11477 | 12825 | 14233 | 15687 | 17196 | 18584 | 19900 | 21160 |
| 0° | 7950 | 9110 | 10355 | 11582 | 12893 | 14306 | 15787 | 17261 | 18685 | 20113 | 21298 |
| -2.5° | 7913 | 9049 | 10282 | 11477 | 12825 | 14233 | 15687 | 17196 | 18584 | 19900 | 21160 |
| -5° | 7772 | 8901 | 10111 | 11353 | 12676 | 14034 | 15486 | 16942 | 18300 | 19580 | 20712 |
| -7.5° | 7616 | 8735 | 9912 | 11129 | 12400 | 13700 | 15061 | 16426 | 17757 | 18994 | 20101 |
| -10° | 7397 | 8486 | 9613 | 10785 | 11990 | 13204 | 14507 | 15848 | 17105 | 18257 | 19314 |
| -12.5° | 7108 | 8157 | 9208 | 10340 | 11499 | 12649 | 13858 | 15066 | 16240 | 17324 | 18295 |
| -15° | 6758 | 7774 | 8763 | 9827 | 10936 | 12040 | 13144 | 14183 | 15242 | 16248 | 17143 |
| -17.5° | 6363 | 7332 | 8295 | 9271 | 10299 | 11326 | 12317 | 13260 | 14200 | 15108 | 15908 |
| -20° | 5921 | 6871 | 7754 | 8680 | 9623 | 10528 | 11441 | 12312 | 13136 | 13916 | 14558 |



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CANDELA DISTRIBUTION (continued):

| | -35° | -32.5° | -30° | -27.5° | -25° | -22.5° | -20° | -17.5° | -15° | -12.5° | -10° |
|--------|------|--------|------|--------|------|--------|-------|--------|-------|--------|-------|
| -22.5° | 5425 | 6310 | 7176 | 8006 | 8876 | 9711 | 10523 | 11328 | 12068 | 12714 | 13277 |
| -25° | 4889 | 5737 | 6557 | 7339 | 8106 | 8873 | 9615 | 10322 | 10966 | 11527 | 12027 |
| -27.5° | 4381 | 5121 | 5888 | 6627 | 7337 | 8023 | 8697 | 9326 | 9877 | 10335 | 10797 |
| -30° | 3868 | 4507 | 5196 | 5885 | 6547 | 7183 | 7777 | 8328 | 8831 | 9266 | 9638 |
| -32.5° | 3431 | 3921 | 4512 | 5128 | 5735 | 6321 | 6909 | 7367 | 7799 | 8187 | 8519 |
| -35° | 3018 | 3433 | 3861 | 4391 | 4915 | 5443 | 5936 | 6398 | 6813 | 7153 | 7435 |
| -37.5° | 2659 | 2988 | 3348 | 3712 | 4153 | 4585 | 5015 | 5423 | 5787 | 6122 | 6388 |
| -40° | 2347 | 2596 | 2887 | 3174 | 3499 | 3805 | 4173 | 4497 | 4804 | 5103 | 5357 |
| -42.5° | 2062 | 2274 | 2485 | 2724 | 2958 | 3202 | 3461 | 3692 | 3934 | 4170 | 4366 |
| -45° | 1824 | 1992 | 2158 | 2344 | 2515 | 2709 | 2892 | 3076 | 3237 | 3398 | 3534 |
| -47.5° | 1622 | 1743 | 1884 | 2022 | 2158 | 2301 | 2435 | 2560 | 2691 | 2802 | 2895 |
| -50° | 1436 | 1537 | 1645 | 1746 | 1856 | 1962 | 2057 | 2153 | 2249 | 2332 | 2399 |
| -52.5° | 1278 | 1356 | 1439 | 1517 | 1602 | 1678 | 1748 | 1824 | 1891 | 1952 | 2002 |
| -55° | 1129 | 1195 | 1260 | 1323 | 1386 | 1444 | 1499 | 1554 | 1605 | 1645 | 1680 |
| -57.5° | 1001 | 1054 | 1104 | 1157 | 1202 | 1245 | 1288 | 1331 | 1368 | 1398 | 1424 |
| -60° | 885 | 928 | 968 | 1009 | 1049 | 1082 | 1117 | 1147 | 1172 | 1195 | 1215 |
| -62.5° | 782 | 817 | 850 | 883 | 908 | 936 | 963 | 988 | 1009 | 1026 | 1039 |
| -65° | 689 | 719 | 747 | 772 | 795 | 817 | 835 | 853 | 868 | 880 | 888 |
| -67.5° | 606 | 629 | 651 | 674 | 694 | 712 | 724 | 737 | 747 | 757 | 762 |
| -70° | 531 | 548 | 566 | 584 | 601 | 614 | 624 | 634 | 639 | 641 | 641 |
| -72.5° | 458 | 473 | 488 | 503 | 516 | 523 | 531 | 536 | 541 | 531 | 516 |
| -75° | 387 | 400 | 410 | 420 | 430 | 435 | 438 | 438 | 438 | 418 | 392 |
| -77.5° | 309 | 324 | 335 | 342 | 350 | 352 | 350 | 350 | 347 | 324 | 297 |
| -80° | 249 | 262 | 269 | 277 | 284 | 282 | 279 | 274 | 272 | 247 | 221 |
| -82.5° | 189 | 196 | 201 | 209 | 214 | 214 | 211 | 209 | 204 | 184 | 161 |
| -85° | 126 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 116 | 103 |
| -87.5° | 63 | 63 | 63 | 63 | 60 | 63 | 63 | 65 | 68 | 60 | 53 |
| -90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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 CATALOG NUMBER: EPH-VN-04-E-935-U-66

CANDELA DISTRIBUTION (continued):

| | -7.5° | -5° | -2.5° | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 87.5° | 43 | 35 | 33 | 28 | 33 | 35 | 43 | 53 | 60 | 68 | 65 |
| 85° | 88 | 73 | 70 | 65 | 70 | 73 | 88 | 103 | 116 | 128 | 128 |
| 82.5° | 141 | 116 | 111 | 106 | 111 | 116 | 141 | 161 | 184 | 204 | 209 |
| 80° | 199 | 169 | 164 | 159 | 164 | 169 | 199 | 221 | 247 | 272 | 274 |
| 77.5° | 269 | 242 | 231 | 224 | 231 | 242 | 269 | 297 | 324 | 347 | 350 |
| 75° | 365 | 337 | 330 | 322 | 330 | 337 | 365 | 392 | 418 | 438 | 438 |
| 72.5° | 498 | 485 | 465 | 448 | 465 | 485 | 498 | 516 | 531 | 541 | 536 |
| 70° | 644 | 649 | 644 | 636 | 644 | 649 | 644 | 641 | 641 | 639 | 634 |
| 67.5° | 765 | 770 | 770 | 772 | 770 | 770 | 765 | 762 | 757 | 747 | 737 |
| 65° | 895 | 898 | 905 | 908 | 905 | 898 | 895 | 888 | 880 | 868 | 853 |
| 62.5° | 1046 | 1054 | 1059 | 1059 | 1059 | 1054 | 1046 | 1039 | 1026 | 1009 | 988 |
| 60° | 1227 | 1237 | 1250 | 1253 | 1250 | 1237 | 1227 | 1215 | 1195 | 1172 | 1147 |
| 57.5° | 1444 | 1456 | 1474 | 1479 | 1474 | 1456 | 1444 | 1424 | 1398 | 1368 | 1331 |
| 55° | 1705 | 1723 | 1733 | 1728 | 1733 | 1723 | 1705 | 1680 | 1645 | 1605 | 1554 |
| 52.5° | 2045 | 2075 | 2095 | 2085 | 2095 | 2075 | 2045 | 2002 | 1952 | 1891 | 1824 |
| 50° | 2455 | 2493 | 2518 | 2510 | 2518 | 2493 | 2455 | 2399 | 2332 | 2249 | 2153 |
| 47.5° | 2968 | 3021 | 3063 | 3066 | 3063 | 3021 | 2968 | 2895 | 2802 | 2691 | 2560 |
| 45° | 3642 | 3720 | 3778 | 3768 | 3778 | 3720 | 3642 | 3534 | 3398 | 3237 | 3076 |
| 42.5° | 4517 | 4625 | 4711 | 4703 | 4711 | 4625 | 4517 | 4366 | 4170 | 3934 | 3692 |
| 40° | 5546 | 5679 | 5792 | 5823 | 5792 | 5679 | 5546 | 5357 | 5103 | 4804 | 4497 |
| 37.5° | 6605 | 6776 | 6919 | 6904 | 6919 | 6776 | 6605 | 6388 | 6122 | 5787 | 5423 |
| 35° | 7669 | 7847 | 7988 | 8001 | 7988 | 7847 | 7669 | 7435 | 7153 | 6813 | 6398 |
| 32.5° | 8783 | 8982 | 9148 | 9170 | 9148 | 8982 | 8783 | 8519 | 8187 | 7799 | 7367 |
| 30° | 9945 | 10184 | 10382 | 10423 | 10382 | 10184 | 9945 | 9638 | 9266 | 8831 | 8328 |
| 27.5° | 11167 | 11451 | 11640 | 11713 | 11640 | 11451 | 11167 | 10797 | 10335 | 9877 | 9326 |
| 25° | 12427 | 12737 | 12948 | 13066 | 12948 | 12737 | 12427 | 12027 | 11527 | 10966 | 10322 |
| 22.5° | 13743 | 14110 | 14384 | 14515 | 14384 | 14110 | 13743 | 13277 | 12714 | 12068 | 11328 |
| 20° | 15101 | 15501 | 15820 | 15956 | 15820 | 15501 | 15101 | 14558 | 13916 | 13136 | 12312 |
| 17.5° | 16484 | 16972 | 17327 | 17500 | 17327 | 16972 | 16484 | 15908 | 15108 | 14200 | 13260 |
| 15° | 17827 | 18345 | 18730 | 18916 | 18730 | 18345 | 17827 | 17143 | 16248 | 15242 | 14183 |
| 12.5° | 19072 | 19620 | 20005 | 20274 | 20005 | 19620 | 19072 | 18295 | 17324 | 16240 | 15066 |
| 10° | 20184 | 20782 | 21172 | 21451 | 21172 | 20782 | 20184 | 19314 | 18257 | 17105 | 15848 |
| 7.5° | 21016 | 21773 | 22214 | 22488 | 22214 | 21773 | 21016 | 20101 | 18994 | 17757 | 16426 |
| 5° | 21655 | 22490 | 22890 | 23149 | 22890 | 22490 | 21655 | 20712 | 19580 | 18300 | 16942 |
| 2.5° | 22123 | 22782 | 23282 | 23542 | 23282 | 22782 | 22123 | 21160 | 19900 | 18584 | 17196 |
| 0° | 22307 | 23081 | 23436 | 23604 | 23436 | 23081 | 22307 | 21298 | 20113 | 18685 | 17261 |
| -2.5° | 22123 | 22782 | 23282 | 23542 | 23282 | 22782 | 22123 | 21160 | 19900 | 18584 | 17196 |
| -5° | 21655 | 22490 | 22890 | 23149 | 22890 | 22490 | 21655 | 20712 | 19580 | 18300 | 16942 |
| -7.5° | 21016 | 21773 | 22214 | 22488 | 22214 | 21773 | 21016 | 20101 | 18994 | 17757 | 16426 |
| -10° | 20184 | 20782 | 21172 | 21451 | 21172 | 20782 | 20184 | 19314 | 18257 | 17105 | 15848 |
| -12.5° | 19072 | 19620 | 20005 | 20274 | 20005 | 19620 | 19072 | 18295 | 17324 | 16240 | 15066 |
| -15° | 17827 | 18345 | 18730 | 18916 | 18730 | 18345 | 17827 | 17143 | 16248 | 15242 | 14183 |
| -17.5° | 16484 | 16972 | 17327 | 17500 | 17327 | 16972 | 16484 | 15908 | 15108 | 14200 | 13260 |
| -20° | 15101 | 15501 | 15820 | 15956 | 15820 | 15501 | 15101 | 14558 | 13916 | 13136 | 12312 |



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CANDELA DISTRIBUTION (continued):

| | -7.5° | -5° | -2.5° | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -22.5° | 13743 | 14110 | 14384 | 14515 | 14384 | 14110 | 13743 | 13277 | 12714 | 12068 | 11328 |
| -25° | 12427 | 12737 | 12948 | 13066 | 12948 | 12737 | 12427 | 12027 | 11527 | 10966 | 10322 |
| -27.5° | 11167 | 11451 | 11640 | 11713 | 11640 | 11451 | 11167 | 10797 | 10335 | 9877 | 9326 |
| -30° | 9945 | 10184 | 10382 | 10423 | 10382 | 10184 | 9945 | 9638 | 9266 | 8831 | 8328 |
| -32.5° | 8783 | 8982 | 9148 | 9170 | 9148 | 8982 | 8783 | 8519 | 8187 | 7799 | 7367 |
| -35° | 7669 | 7847 | 7988 | 8001 | 7988 | 7847 | 7669 | 7435 | 7153 | 6813 | 6398 |
| -37.5° | 6605 | 6776 | 6919 | 6904 | 6919 | 6776 | 6605 | 6388 | 6122 | 5787 | 5423 |
| -40° | 5546 | 5679 | 5792 | 5823 | 5792 | 5679 | 5546 | 5357 | 5103 | 4804 | 4497 |
| -42.5° | 4517 | 4625 | 4711 | 4703 | 4711 | 4625 | 4517 | 4366 | 4170 | 3934 | 3692 |
| -45° | 3642 | 3720 | 3778 | 3768 | 3778 | 3720 | 3642 | 3534 | 3398 | 3237 | 3076 |
| -47.5° | 2968 | 3021 | 3063 | 3066 | 3063 | 3021 | 2968 | 2895 | 2802 | 2691 | 2560 |
| -50° | 2455 | 2493 | 2518 | 2510 | 2518 | 2493 | 2455 | 2399 | 2332 | 2249 | 2153 |
| -52.5° | 2045 | 2075 | 2095 | 2085 | 2095 | 2075 | 2045 | 2002 | 1952 | 1891 | 1824 |
| -55° | 1705 | 1723 | 1733 | 1728 | 1733 | 1723 | 1705 | 1680 | 1645 | 1605 | 1554 |
| -57.5° | 1444 | 1456 | 1474 | 1479 | 1474 | 1456 | 1444 | 1424 | 1398 | 1368 | 1331 |
| -60° | 1227 | 1237 | 1250 | 1253 | 1250 | 1237 | 1227 | 1215 | 1195 | 1172 | 1147 |
| -62.5° | 1046 | 1054 | 1059 | 1059 | 1059 | 1054 | 1046 | 1039 | 1026 | 1009 | 988 |
| -65° | 895 | 898 | 905 | 908 | 905 | 898 | 895 | 888 | 880 | 868 | 853 |
| -67.5° | 765 | 770 | 770 | 772 | 770 | 770 | 765 | 762 | 757 | 747 | 737 |
| -70° | 644 | 649 | 644 | 636 | 644 | 649 | 644 | 641 | 641 | 639 | 634 |
| -72.5° | 498 | 485 | 465 | 448 | 465 | 485 | 498 | 516 | 531 | 541 | 536 |
| -75° | 365 | 337 | 330 | 322 | 330 | 337 | 365 | 392 | 418 | 438 | 438 |
| -77.5° | 269 | 242 | 231 | 224 | 231 | 242 | 269 | 297 | 324 | 347 | 350 |
| -80° | 199 | 169 | 164 | 159 | 164 | 169 | 199 | 221 | 247 | 272 | 274 |
| -82.5° | 141 | 116 | 111 | 106 | 111 | 116 | 141 | 161 | 184 | 204 | 209 |
| -85° | 88 | 73 | 70 | 65 | 70 | 73 | 88 | 103 | 116 | 128 | 128 |
| -87.5° | 43 | 35 | 33 | 28 | 33 | 35 | 43 | 53 | 60 | 68 | 65 |
| -90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



REPORT NUMBER: P622354
 CATALOG NUMBER: EPH-VN-04-E-935-U-66

CANDELA DISTRIBUTION (continued):

| | 20° | 22.5° | 25° | 27.5° | 30° | 32.5° | 35° | 37.5° | 40° | 42.5° | 45° |
|--------|-------|-------|-------|-------|-------|-------|------|-------|------|-------|------|
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 87.5° | 63 | 63 | 60 | 63 | 63 | 63 | 63 | 55 | 50 | 45 | 40 |
| 85° | 128 | 128 | 128 | 128 | 128 | 128 | 126 | 116 | 103 | 93 | 83 |
| 82.5° | 211 | 214 | 214 | 209 | 201 | 196 | 189 | 171 | 153 | 138 | 123 |
| 80° | 279 | 282 | 284 | 277 | 269 | 262 | 249 | 226 | 204 | 181 | 164 |
| 77.5° | 350 | 352 | 350 | 342 | 335 | 324 | 309 | 287 | 264 | 242 | 224 |
| 75° | 438 | 435 | 430 | 420 | 410 | 400 | 387 | 367 | 342 | 314 | 294 |
| 72.5° | 531 | 523 | 516 | 503 | 488 | 473 | 458 | 440 | 420 | 397 | 377 |
| 70° | 624 | 614 | 601 | 584 | 566 | 548 | 531 | 508 | 488 | 465 | 445 |
| 67.5° | 724 | 712 | 694 | 674 | 651 | 629 | 606 | 581 | 556 | 531 | 508 |
| 65° | 835 | 817 | 795 | 772 | 747 | 719 | 689 | 659 | 631 | 599 | 571 |
| 62.5° | 963 | 936 | 908 | 883 | 850 | 817 | 782 | 747 | 712 | 677 | 639 |
| 60° | 1117 | 1082 | 1049 | 1009 | 968 | 928 | 885 | 843 | 797 | 757 | 712 |
| 57.5° | 1288 | 1245 | 1202 | 1157 | 1104 | 1054 | 1001 | 946 | 895 | 843 | 790 |
| 55° | 1499 | 1444 | 1386 | 1323 | 1260 | 1195 | 1129 | 1064 | 1001 | 933 | 875 |
| 52.5° | 1748 | 1678 | 1602 | 1517 | 1439 | 1356 | 1278 | 1195 | 1117 | 1039 | 963 |
| 50° | 2057 | 1962 | 1856 | 1746 | 1645 | 1537 | 1436 | 1338 | 1243 | 1152 | 1061 |
| 47.5° | 2435 | 2301 | 2158 | 2022 | 1884 | 1743 | 1622 | 1504 | 1383 | 1270 | 1170 |
| 45° | 2892 | 2709 | 2515 | 2344 | 2158 | 1992 | 1824 | 1678 | 1537 | 1409 | 1280 |
| 42.5° | 3461 | 3202 | 2958 | 2724 | 2485 | 2274 | 2062 | 1881 | 1710 | 1552 | 1409 |
| 40° | 4173 | 3805 | 3499 | 3174 | 2887 | 2596 | 2347 | 2113 | 1901 | 1713 | 1537 |
| 37.5° | 5015 | 4585 | 4153 | 3712 | 3348 | 2988 | 2659 | 2369 | 2115 | 1886 | 1683 |
| 35° | 5936 | 5443 | 4915 | 4391 | 3861 | 3433 | 3018 | 2656 | 2347 | 2070 | 1834 |
| 32.5° | 6909 | 6321 | 5735 | 5128 | 4512 | 3921 | 3431 | 2980 | 2593 | 2276 | 1997 |
| 30° | 7777 | 7183 | 6547 | 5885 | 5196 | 4507 | 3868 | 3345 | 2885 | 2485 | 2163 |
| 27.5° | 8697 | 8023 | 7337 | 6627 | 5888 | 5121 | 4381 | 3715 | 3177 | 2726 | 2347 |
| 25° | 9615 | 8873 | 8106 | 7339 | 6557 | 5737 | 4889 | 4137 | 3499 | 2965 | 2510 |
| 22.5° | 10523 | 9711 | 8876 | 8006 | 7176 | 6310 | 5425 | 4547 | 3795 | 3202 | 2701 |
| 20° | 11441 | 10528 | 9623 | 8680 | 7754 | 6871 | 5921 | 4980 | 4145 | 3446 | 2877 |
| 17.5° | 12317 | 11326 | 10299 | 9271 | 8295 | 7332 | 6363 | 5397 | 4467 | 3667 | 3053 |
| 15° | 13144 | 12040 | 10936 | 9827 | 8763 | 7774 | 6758 | 5760 | 4771 | 3901 | 3207 |
| 12.5° | 13858 | 12649 | 11499 | 10340 | 9208 | 8157 | 7108 | 6074 | 5058 | 4127 | 3363 |
| 10° | 14507 | 13204 | 11990 | 10785 | 9613 | 8486 | 7397 | 6336 | 5292 | 4311 | 3489 |
| 7.5° | 15061 | 13700 | 12400 | 11129 | 9912 | 8735 | 7616 | 6537 | 5473 | 4452 | 3587 |
| 5° | 15486 | 14034 | 12676 | 11353 | 10111 | 8901 | 7772 | 6680 | 5601 | 4552 | 3649 |
| 2.5° | 15687 | 14233 | 12825 | 11477 | 10282 | 9049 | 7913 | 6808 | 5709 | 4648 | 3717 |
| 0° | 15787 | 14306 | 12893 | 11582 | 10355 | 9110 | 7950 | 6826 | 5707 | 4661 | 3722 |
| -2.5° | 15687 | 14233 | 12825 | 11477 | 10282 | 9049 | 7913 | 6808 | 5709 | 4648 | 3717 |
| -5° | 15486 | 14034 | 12676 | 11353 | 10111 | 8901 | 7772 | 6680 | 5601 | 4552 | 3649 |
| -7.5° | 15061 | 13700 | 12400 | 11129 | 9912 | 8735 | 7616 | 6537 | 5473 | 4452 | 3587 |
| -10° | 14507 | 13204 | 11990 | 10785 | 9613 | 8486 | 7397 | 6336 | 5292 | 4311 | 3489 |
| -12.5° | 13858 | 12649 | 11499 | 10340 | 9208 | 8157 | 7108 | 6074 | 5058 | 4127 | 3363 |
| -15° | 13144 | 12040 | 10936 | 9827 | 8763 | 7774 | 6758 | 5760 | 4771 | 3901 | 3207 |
| -17.5° | 12317 | 11326 | 10299 | 9271 | 8295 | 7332 | 6363 | 5397 | 4467 | 3667 | 3053 |
| -20° | 11441 | 10528 | 9623 | 8680 | 7754 | 6871 | 5921 | 4980 | 4145 | 3446 | 2877 |



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 CATALOG NUMBER: EPH-VN-04-E-935-U-66

CANDELA DISTRIBUTION (continued):

| | 20° | 22.5° | 25° | 27.5° | 30° | 32.5° | 35° | 37.5° | 40° | 42.5° | 45° |
|--------|-------|-------|------|-------|------|-------|------|-------|------|-------|------|
| -22.5° | 10523 | 9711 | 8876 | 8006 | 7176 | 6310 | 5425 | 4547 | 3795 | 3202 | 2701 |
| -25° | 9615 | 8873 | 8106 | 7339 | 6557 | 5737 | 4889 | 4137 | 3499 | 2965 | 2510 |
| -27.5° | 8697 | 8023 | 7337 | 6627 | 5888 | 5121 | 4381 | 3715 | 3177 | 2726 | 2347 |
| -30° | 7777 | 7183 | 6547 | 5885 | 5196 | 4507 | 3868 | 3345 | 2885 | 2485 | 2163 |
| -32.5° | 6909 | 6321 | 5735 | 5128 | 4512 | 3921 | 3431 | 2980 | 2593 | 2276 | 1997 |
| -35° | 5936 | 5443 | 4915 | 4391 | 3861 | 3433 | 3018 | 2656 | 2347 | 2070 | 1834 |
| -37.5° | 5015 | 4585 | 4153 | 3712 | 3348 | 2988 | 2659 | 2369 | 2115 | 1886 | 1683 |
| -40° | 4173 | 3805 | 3499 | 3174 | 2887 | 2596 | 2347 | 2113 | 1901 | 1713 | 1537 |
| -42.5° | 3461 | 3202 | 2958 | 2724 | 2485 | 2274 | 2062 | 1881 | 1710 | 1552 | 1409 |
| -45° | 2892 | 2709 | 2515 | 2344 | 2158 | 1992 | 1824 | 1678 | 1537 | 1409 | 1280 |
| -47.5° | 2435 | 2301 | 2158 | 2022 | 1884 | 1743 | 1622 | 1504 | 1383 | 1270 | 1170 |
| -50° | 2057 | 1962 | 1856 | 1746 | 1645 | 1537 | 1436 | 1338 | 1243 | 1152 | 1061 |
| -52.5° | 1748 | 1678 | 1602 | 1517 | 1439 | 1356 | 1278 | 1195 | 1117 | 1039 | 963 |
| -55° | 1499 | 1444 | 1386 | 1323 | 1260 | 1195 | 1129 | 1064 | 1001 | 933 | 875 |
| -57.5° | 1288 | 1245 | 1202 | 1157 | 1104 | 1054 | 1001 | 946 | 895 | 843 | 790 |
| -60° | 1117 | 1082 | 1049 | 1009 | 968 | 928 | 885 | 843 | 797 | 757 | 712 |
| -62.5° | 963 | 936 | 908 | 883 | 850 | 817 | 782 | 747 | 712 | 677 | 639 |
| -65° | 835 | 817 | 795 | 772 | 747 | 719 | 689 | 659 | 631 | 599 | 571 |
| -67.5° | 724 | 712 | 694 | 674 | 651 | 629 | 606 | 581 | 556 | 531 | 508 |
| -70° | 624 | 614 | 601 | 584 | 566 | 548 | 531 | 508 | 488 | 465 | 445 |
| -72.5° | 531 | 523 | 516 | 503 | 488 | 473 | 458 | 440 | 420 | 397 | 377 |
| -75° | 438 | 435 | 430 | 420 | 410 | 400 | 387 | 367 | 342 | 314 | 294 |
| -77.5° | 350 | 352 | 350 | 342 | 335 | 324 | 309 | 287 | 264 | 242 | 224 |
| -80° | 279 | 282 | 284 | 277 | 269 | 262 | 249 | 226 | 204 | 181 | 164 |
| -82.5° | 211 | 214 | 214 | 209 | 201 | 196 | 189 | 171 | 153 | 138 | 123 |
| -85° | 128 | 128 | 128 | 128 | 128 | 128 | 126 | 116 | 103 | 93 | 83 |
| -87.5° | 63 | 63 | 60 | 63 | 63 | 63 | 63 | 55 | 50 | 45 | 40 |
| -90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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 CATALOG NUMBER: EPH-VN-04-E-935-U-66

CANDELA DISTRIBUTION (continued):

| | 47.5° | 50° | 52.5° | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° |
|--------|-------|------|-------|------|-------|------|-------|-----|-------|-----|-------|
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 87.5° | 43 | 45 | 48 | 48 | 48 | 45 | 43 | 40 | 35 | 33 | 30 |
| 85° | 88 | 91 | 96 | 98 | 93 | 91 | 83 | 78 | 73 | 65 | 60 |
| 82.5° | 131 | 136 | 141 | 141 | 136 | 131 | 123 | 116 | 108 | 98 | 88 |
| 80° | 174 | 181 | 189 | 189 | 181 | 171 | 161 | 151 | 141 | 128 | 116 |
| 77.5° | 229 | 234 | 236 | 239 | 229 | 219 | 206 | 189 | 174 | 159 | 143 |
| 75° | 289 | 289 | 292 | 287 | 277 | 269 | 252 | 231 | 209 | 189 | 169 |
| 72.5° | 362 | 350 | 345 | 337 | 319 | 304 | 292 | 274 | 244 | 216 | 194 |
| 70° | 425 | 407 | 392 | 377 | 360 | 340 | 324 | 302 | 277 | 244 | 216 |
| 67.5° | 485 | 463 | 440 | 420 | 397 | 377 | 355 | 327 | 299 | 269 | 239 |
| 65° | 546 | 518 | 490 | 463 | 438 | 413 | 387 | 355 | 322 | 292 | 259 |
| 62.5° | 606 | 573 | 541 | 508 | 478 | 448 | 420 | 382 | 345 | 312 | 277 |
| 60° | 669 | 634 | 596 | 558 | 521 | 485 | 450 | 410 | 370 | 330 | 294 |
| 57.5° | 742 | 692 | 649 | 606 | 563 | 523 | 480 | 438 | 395 | 352 | 309 |
| 55° | 815 | 760 | 704 | 656 | 609 | 563 | 513 | 465 | 418 | 372 | 324 |
| 52.5° | 893 | 828 | 767 | 707 | 654 | 601 | 548 | 498 | 443 | 392 | 335 |
| 50° | 978 | 900 | 830 | 762 | 699 | 641 | 584 | 526 | 468 | 413 | 347 |
| 47.5° | 1069 | 978 | 895 | 817 | 750 | 679 | 616 | 556 | 493 | 435 | 360 |
| 45° | 1170 | 1061 | 963 | 878 | 795 | 719 | 651 | 584 | 518 | 450 | 367 |
| 42.5° | 1268 | 1149 | 1039 | 933 | 845 | 760 | 687 | 614 | 543 | 463 | 380 |
| 40° | 1383 | 1237 | 1114 | 1001 | 895 | 800 | 717 | 641 | 568 | 478 | 390 |
| 37.5° | 1504 | 1336 | 1192 | 1061 | 946 | 843 | 752 | 667 | 586 | 493 | 400 |
| 35° | 1625 | 1436 | 1270 | 1124 | 999 | 885 | 785 | 694 | 604 | 506 | 410 |
| 32.5° | 1751 | 1537 | 1348 | 1187 | 1049 | 928 | 817 | 719 | 624 | 521 | 418 |
| 30° | 1889 | 1642 | 1429 | 1248 | 1097 | 966 | 850 | 745 | 644 | 533 | 425 |
| 27.5° | 2020 | 1741 | 1507 | 1313 | 1147 | 1006 | 880 | 770 | 667 | 546 | 435 |
| 25° | 2150 | 1846 | 1590 | 1373 | 1195 | 1041 | 911 | 792 | 687 | 561 | 443 |
| 22.5° | 2291 | 1949 | 1665 | 1431 | 1237 | 1077 | 938 | 817 | 704 | 576 | 450 |
| 20° | 2420 | 2042 | 1730 | 1486 | 1283 | 1112 | 966 | 838 | 719 | 591 | 458 |
| 17.5° | 2538 | 2138 | 1811 | 1544 | 1326 | 1144 | 988 | 855 | 734 | 604 | 463 |
| 15° | 2666 | 2233 | 1881 | 1595 | 1363 | 1172 | 1011 | 873 | 747 | 616 | 465 |
| 12.5° | 2777 | 2314 | 1942 | 1640 | 1396 | 1195 | 1029 | 885 | 760 | 629 | 470 |
| 10° | 2867 | 2379 | 1992 | 1675 | 1421 | 1215 | 1041 | 898 | 767 | 636 | 473 |
| 7.5° | 2938 | 2430 | 2030 | 1703 | 1441 | 1230 | 1054 | 905 | 775 | 644 | 473 |
| 5° | 2991 | 2467 | 2055 | 1723 | 1456 | 1243 | 1064 | 913 | 782 | 654 | 475 |
| 2.5° | 3038 | 2508 | 2075 | 1741 | 1469 | 1253 | 1071 | 918 | 782 | 651 | 470 |
| 0° | 3046 | 2515 | 2073 | 1741 | 1469 | 1255 | 1071 | 918 | 780 | 649 | 465 |
| -2.5° | 3038 | 2508 | 2075 | 1741 | 1469 | 1253 | 1071 | 918 | 782 | 651 | 470 |
| -5° | 2991 | 2467 | 2055 | 1723 | 1456 | 1243 | 1064 | 913 | 782 | 654 | 475 |
| -7.5° | 2938 | 2430 | 2030 | 1703 | 1441 | 1230 | 1054 | 905 | 775 | 644 | 473 |
| -10° | 2867 | 2379 | 1992 | 1675 | 1421 | 1215 | 1041 | 898 | 767 | 636 | 473 |
| -12.5° | 2777 | 2314 | 1942 | 1640 | 1396 | 1195 | 1029 | 885 | 760 | 629 | 470 |
| -15° | 2666 | 2233 | 1881 | 1595 | 1363 | 1172 | 1011 | 873 | 747 | 616 | 465 |
| -17.5° | 2538 | 2138 | 1811 | 1544 | 1326 | 1144 | 988 | 855 | 734 | 604 | 463 |
| -20° | 2420 | 2042 | 1730 | 1486 | 1283 | 1112 | 966 | 838 | 719 | 591 | 458 |



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CANDELA DISTRIBUTION (continued):

| | 47.5° | 50° | 52.5° | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° |
|--------|-------|------|-------|------|-------|------|-------|-----|-------|-----|-------|
| -22.5° | 2291 | 1949 | 1665 | 1431 | 1237 | 1077 | 938 | 817 | 704 | 576 | 450 |
| -25° | 2150 | 1846 | 1590 | 1373 | 1195 | 1041 | 911 | 792 | 687 | 561 | 443 |
| -27.5° | 2020 | 1741 | 1507 | 1313 | 1147 | 1006 | 880 | 770 | 667 | 546 | 435 |
| -30° | 1889 | 1642 | 1429 | 1248 | 1097 | 966 | 850 | 745 | 644 | 533 | 425 |
| -32.5° | 1751 | 1537 | 1348 | 1187 | 1049 | 928 | 817 | 719 | 624 | 521 | 418 |
| -35° | 1625 | 1436 | 1270 | 1124 | 999 | 885 | 785 | 694 | 604 | 506 | 410 |
| -37.5° | 1504 | 1336 | 1192 | 1061 | 946 | 843 | 752 | 667 | 586 | 493 | 400 |
| -40° | 1383 | 1237 | 1114 | 1001 | 895 | 800 | 717 | 641 | 568 | 478 | 390 |
| -42.5° | 1268 | 1149 | 1039 | 933 | 845 | 760 | 687 | 614 | 543 | 463 | 380 |
| -45° | 1170 | 1061 | 963 | 878 | 795 | 719 | 651 | 584 | 518 | 450 | 367 |
| -47.5° | 1069 | 978 | 895 | 817 | 750 | 679 | 616 | 556 | 493 | 435 | 360 |
| -50° | 978 | 900 | 830 | 762 | 699 | 641 | 584 | 526 | 468 | 413 | 347 |
| -52.5° | 893 | 828 | 767 | 707 | 654 | 601 | 548 | 498 | 443 | 392 | 335 |
| -55° | 815 | 760 | 704 | 656 | 609 | 563 | 513 | 465 | 418 | 372 | 324 |
| -57.5° | 742 | 692 | 649 | 606 | 563 | 523 | 480 | 438 | 395 | 352 | 309 |
| -60° | 669 | 634 | 596 | 558 | 521 | 485 | 450 | 410 | 370 | 330 | 294 |
| -62.5° | 606 | 573 | 541 | 508 | 478 | 448 | 420 | 382 | 345 | 312 | 277 |
| -65° | 546 | 518 | 490 | 463 | 438 | 413 | 387 | 355 | 322 | 292 | 259 |
| -67.5° | 485 | 463 | 440 | 420 | 397 | 377 | 355 | 327 | 299 | 269 | 239 |
| -70° | 425 | 407 | 392 | 377 | 360 | 340 | 324 | 302 | 277 | 244 | 216 |
| -72.5° | 362 | 350 | 345 | 337 | 319 | 304 | 292 | 274 | 244 | 216 | 194 |
| -75° | 289 | 289 | 292 | 287 | 277 | 269 | 252 | 231 | 209 | 189 | 169 |
| -77.5° | 229 | 234 | 236 | 239 | 229 | 219 | 206 | 189 | 174 | 159 | 143 |
| -80° | 174 | 181 | 189 | 189 | 181 | 171 | 161 | 151 | 141 | 128 | 116 |
| -82.5° | 131 | 136 | 141 | 141 | 136 | 131 | 123 | 116 | 108 | 98 | 88 |
| -85° | 88 | 91 | 96 | 98 | 93 | 91 | 83 | 78 | 73 | 65 | 60 |
| -87.5° | 43 | 45 | 48 | 48 | 48 | 45 | 43 | 40 | 35 | 33 | 30 |
| -90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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CANDELA DISTRIBUTION (continued):

| | 75° | 77.5° | 80° | 82.5° | 85° | 87.5° | 90° |
|--------|-----|-------|-----|-------|-----|-------|-----|
| 90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 87.5° | 25 | 20 | 15 | 10 | 5 | 3 | 0 |
| 85° | 53 | 40 | 28 | 18 | 10 | 5 | 0 |
| 82.5° | 78 | 58 | 43 | 28 | 18 | 8 | 0 |
| 80° | 103 | 78 | 55 | 38 | 23 | 10 | 0 |
| 77.5° | 126 | 96 | 70 | 45 | 28 | 13 | 0 |
| 75° | 146 | 111 | 83 | 55 | 33 | 15 | 0 |
| 72.5° | 166 | 126 | 93 | 63 | 38 | 18 | 0 |
| 70° | 186 | 141 | 103 | 73 | 43 | 20 | 0 |
| 67.5° | 201 | 153 | 113 | 78 | 48 | 23 | 0 |
| 65° | 214 | 166 | 121 | 83 | 53 | 23 | 0 |
| 62.5° | 226 | 176 | 128 | 88 | 58 | 25 | 0 |
| 60° | 242 | 186 | 138 | 93 | 60 | 28 | 0 |
| 57.5° | 252 | 194 | 143 | 98 | 63 | 30 | 0 |
| 55° | 262 | 204 | 148 | 103 | 68 | 33 | 0 |
| 52.5° | 272 | 211 | 156 | 106 | 70 | 33 | 0 |
| 50° | 279 | 219 | 161 | 108 | 73 | 35 | 0 |
| 47.5° | 289 | 224 | 164 | 111 | 76 | 38 | 0 |
| 45° | 297 | 231 | 169 | 113 | 78 | 38 | 0 |
| 42.5° | 304 | 236 | 171 | 116 | 78 | 40 | 0 |
| 40° | 312 | 239 | 176 | 121 | 81 | 43 | 0 |
| 37.5° | 317 | 244 | 179 | 123 | 83 | 43 | 0 |
| 35° | 319 | 247 | 181 | 126 | 86 | 45 | 0 |
| 32.5° | 324 | 252 | 184 | 131 | 86 | 45 | 0 |
| 30° | 332 | 252 | 184 | 133 | 88 | 45 | 0 |
| 27.5° | 337 | 254 | 189 | 133 | 88 | 48 | 0 |
| 25° | 340 | 254 | 191 | 136 | 91 | 48 | 0 |
| 22.5° | 342 | 257 | 194 | 138 | 91 | 48 | 0 |
| 20° | 345 | 259 | 196 | 141 | 93 | 50 | 0 |
| 17.5° | 347 | 264 | 199 | 141 | 93 | 50 | 0 |
| 15° | 352 | 267 | 199 | 141 | 93 | 53 | 0 |
| 12.5° | 355 | 267 | 199 | 143 | 93 | 53 | 0 |
| 10° | 357 | 269 | 199 | 143 | 96 | 50 | 0 |
| 7.5° | 357 | 269 | 201 | 143 | 96 | 50 | 0 |
| 5° | 357 | 272 | 199 | 143 | 93 | 50 | 0 |
| 2.5° | 352 | 272 | 199 | 141 | 93 | 50 | 0 |
| 0° | 350 | 269 | 196 | 141 | 93 | 50 | 0 |
| -2.5° | 352 | 272 | 199 | 141 | 93 | 50 | 0 |
| -5° | 357 | 272 | 199 | 143 | 93 | 50 | 0 |
| -7.5° | 357 | 269 | 201 | 143 | 96 | 50 | 0 |
| -10° | 357 | 269 | 199 | 143 | 96 | 50 | 0 |
| -12.5° | 355 | 267 | 199 | 143 | 93 | 53 | 0 |
| -15° | 352 | 267 | 199 | 141 | 93 | 53 | 0 |
| -17.5° | 347 | 264 | 199 | 141 | 93 | 50 | 0 |
| -20° | 345 | 259 | 196 | 141 | 93 | 50 | 0 |



REPORT NUMBER: P622354

CATALOG NUMBER: EPH-VN-04-E-935-U-66

CANDELA DISTRIBUTION (continued):

| | 75° | 77.5° | 80° | 82.5° | 85° | 87.5° | 90° |
|--------|-----|-------|-----|-------|-----|-------|-----|
| -22.5° | 342 | 257 | 194 | 138 | 91 | 48 | 0 |
| -25° | 340 | 254 | 191 | 136 | 91 | 48 | 0 |
| -27.5° | 337 | 254 | 189 | 133 | 88 | 48 | 0 |
| -30° | 332 | 252 | 184 | 133 | 88 | 45 | 0 |
| -32.5° | 324 | 252 | 184 | 131 | 86 | 45 | 0 |
| -35° | 319 | 247 | 181 | 126 | 86 | 45 | 0 |
| -37.5° | 317 | 244 | 179 | 123 | 83 | 43 | 0 |
| -40° | 312 | 239 | 176 | 121 | 81 | 43 | 0 |
| -42.5° | 304 | 236 | 171 | 116 | 78 | 40 | 0 |
| -45° | 297 | 231 | 169 | 113 | 78 | 38 | 0 |
| -47.5° | 289 | 224 | 164 | 111 | 76 | 38 | 0 |
| -50° | 279 | 219 | 161 | 108 | 73 | 35 | 0 |
| -52.5° | 272 | 211 | 156 | 106 | 70 | 33 | 0 |
| -55° | 262 | 204 | 148 | 103 | 68 | 33 | 0 |
| -57.5° | 252 | 194 | 143 | 98 | 63 | 30 | 0 |
| -60° | 242 | 186 | 138 | 93 | 60 | 28 | 0 |
| -62.5° | 226 | 176 | 128 | 88 | 58 | 25 | 0 |
| -65° | 214 | 166 | 121 | 83 | 53 | 23 | 0 |
| -67.5° | 201 | 153 | 113 | 78 | 48 | 23 | 0 |
| -70° | 186 | 141 | 103 | 73 | 43 | 20 | 0 |
| -72.5° | 166 | 126 | 93 | 63 | 38 | 18 | 0 |
| -75° | 146 | 111 | 83 | 55 | 33 | 15 | 0 |
| -77.5° | 126 | 96 | 70 | 45 | 28 | 13 | 0 |
| -80° | 103 | 78 | 55 | 38 | 23 | 10 | 0 |
| -82.5° | 78 | 58 | 43 | 28 | 18 | 8 | 0 |
| -85° | 53 | 40 | 28 | 18 | 10 | 5 | 0 |
| -87.5° | 25 | 20 | 15 | 10 | 5 | 3 | 0 |
| -90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(END OF REPORT)