

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: P622363

Luminaire Tested: **EPH-VN-08-D-940-U-66**

Issue Date: 09/19/2022

Test Information

Test Method: LM-79-2019
Report Number: P622363
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/19/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-D-940-U-66
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 6 distribution lens
Light Source: (128) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

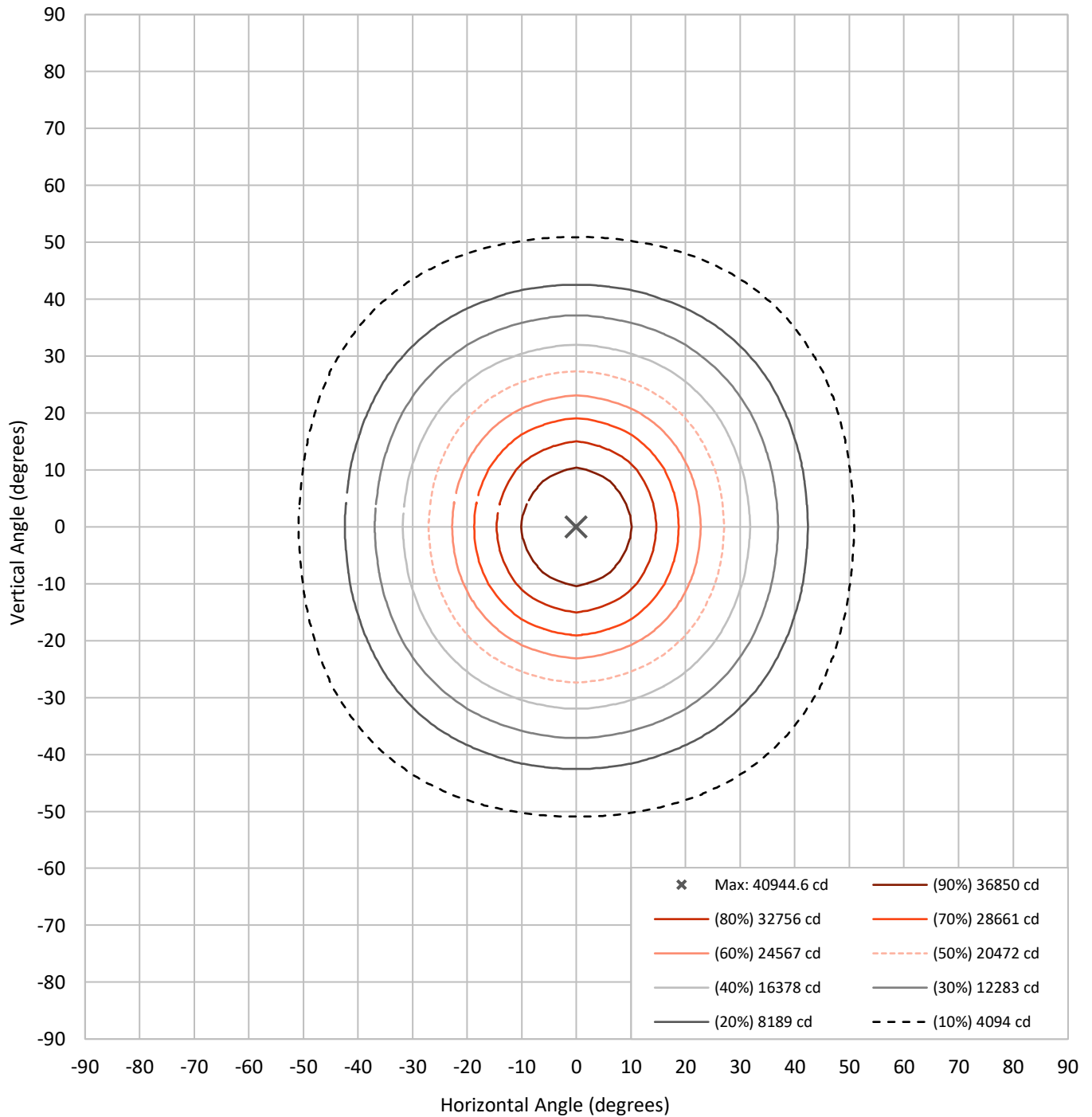
| | | | |
|-------------------|------------------------------------|----------------------|-------------------|
| Lumens per Lamp: | N/A | NEMA Type: | 6H x 6V |
| Luminaire Lumens: | 42466.3 lumens | Max Intensity: | 40944.6 candela |
| Efficiency: | N/A | Max Intensity Angle: | 0°H x 0°V |
| Efficacy: | 87.0 lumens/watt | | |
| Luminous Opening: | Rectangular (W 2' x L: 1' 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: | 20417.9 lumens | Field Lumens: | 37268.4 lumens |
| Beam Efficiency: | 48.1% | Field Efficiency: | 87.8% |

Input Watts (W): 488.3
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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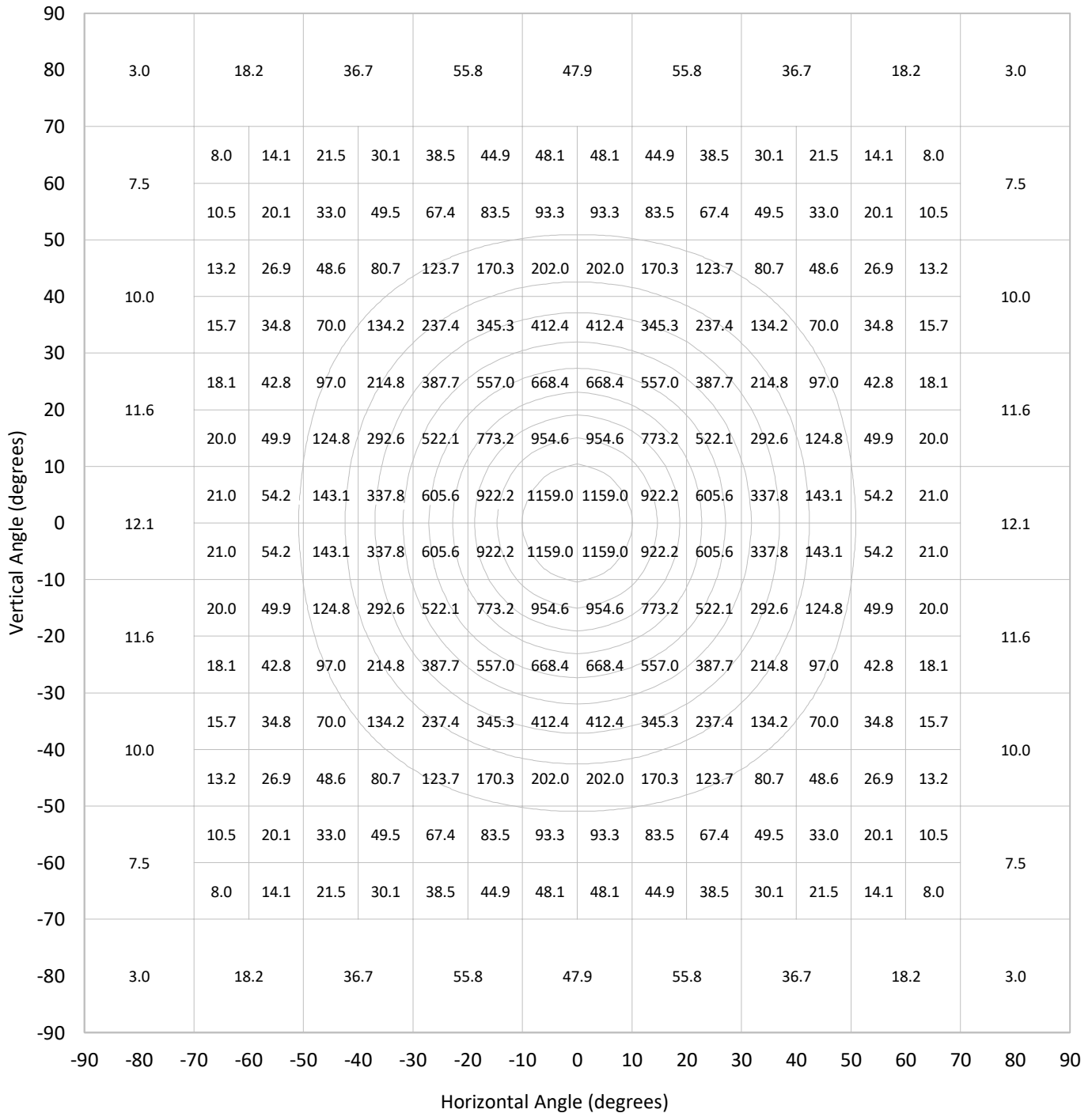
Iso-Candela Plot





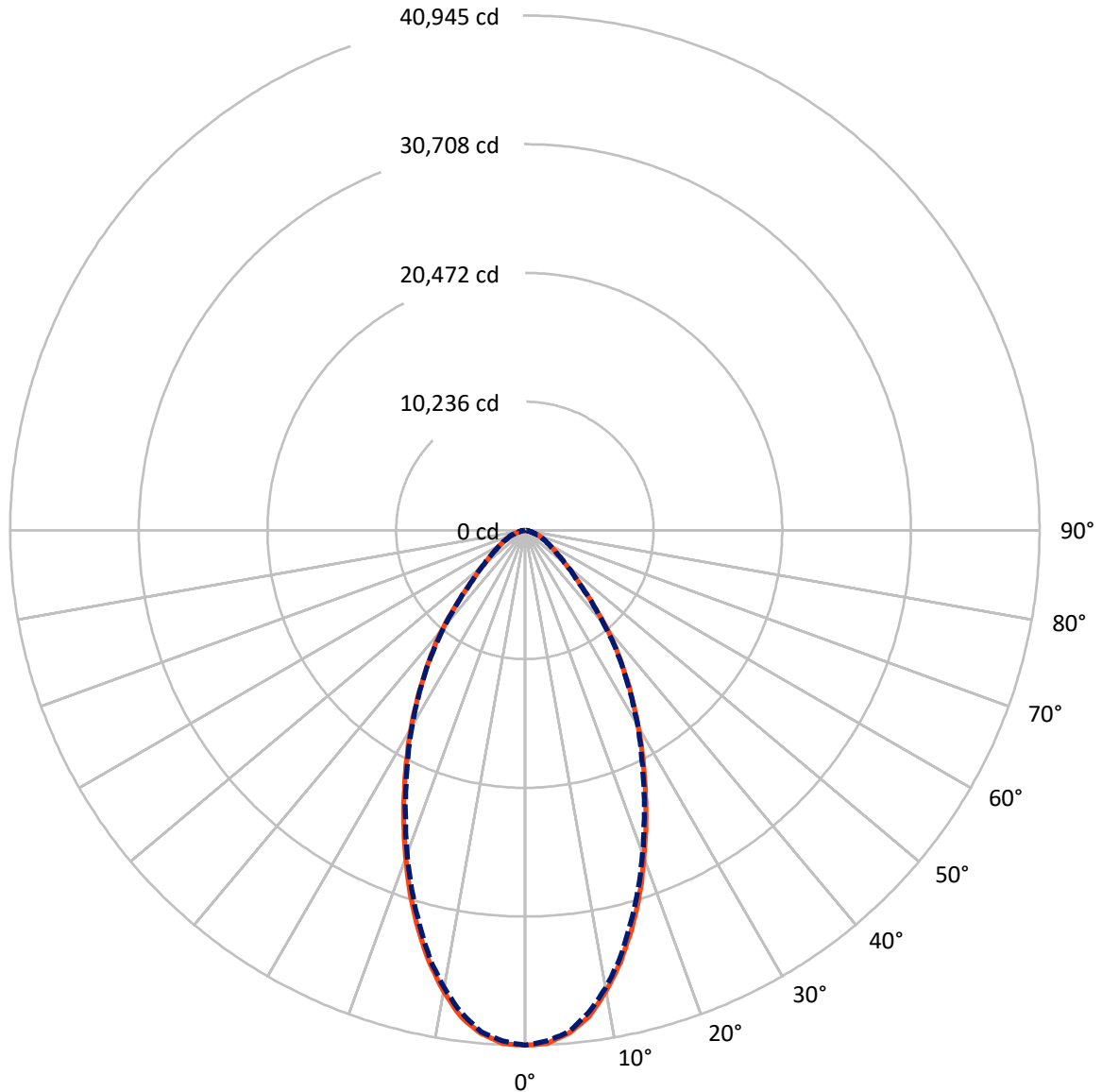
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Lumen Table



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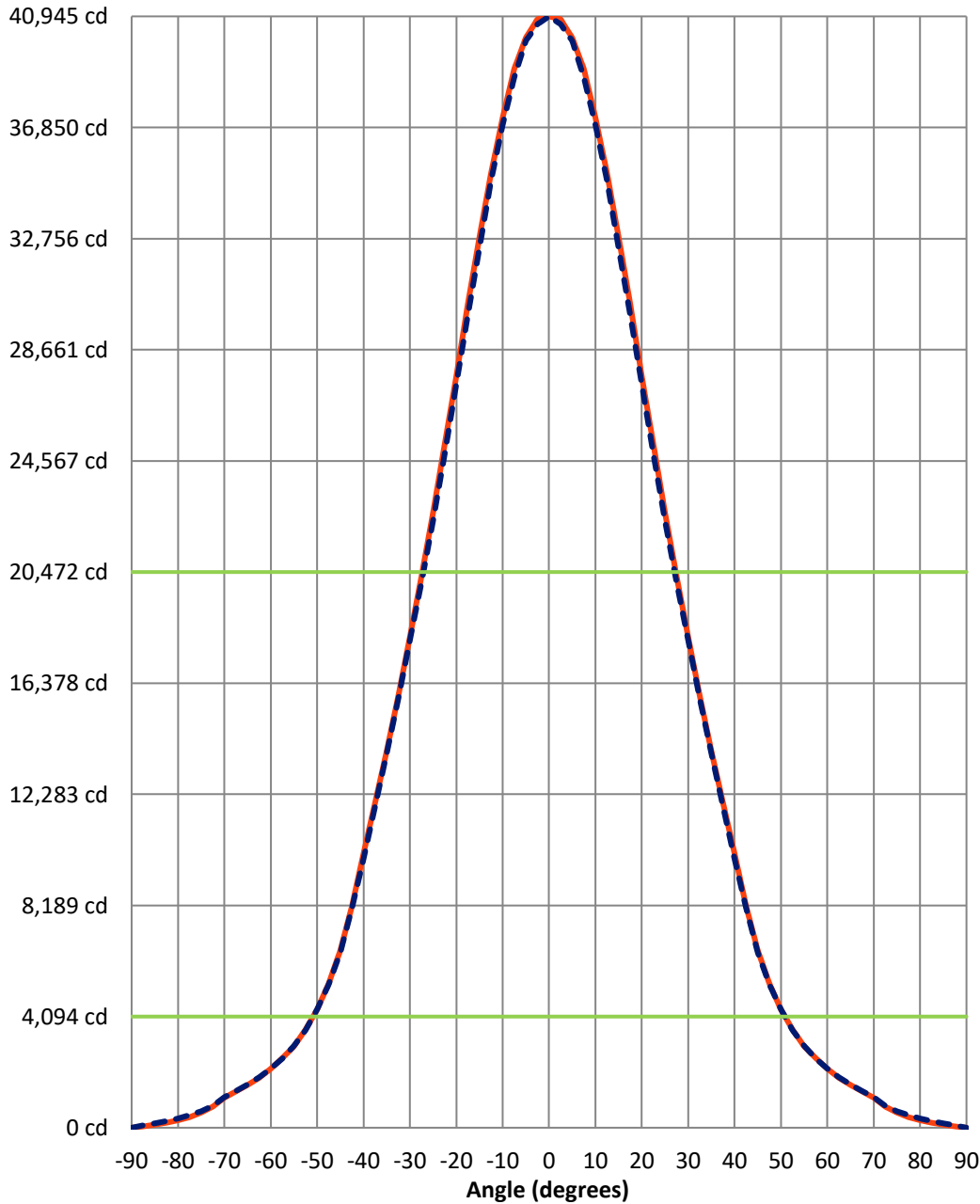
Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: EPH-VN-08-D-940-U-66

Luminous Intensity Plot



Beam:
 H Angle: 54.2°
 V Angle: 54.7°
 Lumens: 20417.9
 Efficiency: 48.1%

Field:
 H Angle: 101.7°
 V Angle: 101.8°
 Lumens: 37268.4
 Efficiency: 87.8%

Spill:
 Lumens: 5197.9
 Efficiency: 12.2%

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



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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 | 4 | 9 | 18 | 26 | 35 | 44 | 52 | 57 | 61 | 70 |
| 85° | 0 | 9 | 18 | 31 | 48 | 70 | 92 | 105 | 113 | 127 | 135 |
| 82.5° | 0 | 13 | 31 | 48 | 74 | 100 | 135 | 153 | 170 | 188 | 201 |
| 80° | 0 | 18 | 39 | 65 | 96 | 135 | 179 | 201 | 223 | 244 | 262 |
| 77.5° | 0 | 22 | 48 | 79 | 122 | 166 | 218 | 249 | 275 | 301 | 327 |
| 75° | 0 | 26 | 57 | 96 | 144 | 192 | 253 | 292 | 327 | 362 | 401 |
| 72.5° | 0 | 31 | 65 | 109 | 161 | 218 | 288 | 336 | 375 | 423 | 476 |
| 70° | 0 | 35 | 74 | 127 | 179 | 244 | 323 | 375 | 423 | 480 | 524 |
| 67.5° | 0 | 39 | 83 | 135 | 196 | 266 | 349 | 415 | 467 | 519 | 567 |
| 65° | 0 | 39 | 92 | 144 | 209 | 288 | 371 | 449 | 506 | 558 | 615 |
| 62.5° | 0 | 44 | 100 | 153 | 223 | 305 | 393 | 480 | 541 | 598 | 663 |
| 60° | 0 | 48 | 105 | 161 | 240 | 323 | 419 | 510 | 572 | 641 | 711 |
| 57.5° | 0 | 52 | 109 | 170 | 249 | 336 | 436 | 537 | 611 | 685 | 759 |
| 55° | 0 | 57 | 118 | 179 | 257 | 353 | 454 | 563 | 646 | 724 | 807 |
| 52.5° | 0 | 57 | 122 | 183 | 271 | 367 | 471 | 580 | 681 | 768 | 864 |
| 50° | 0 | 61 | 127 | 188 | 279 | 380 | 484 | 602 | 716 | 812 | 912 |
| 47.5° | 0 | 65 | 131 | 192 | 284 | 388 | 502 | 624 | 755 | 855 | 964 |
| 45° | 0 | 65 | 135 | 196 | 292 | 401 | 515 | 637 | 781 | 899 | 1012 |
| 42.5° | 0 | 70 | 135 | 201 | 297 | 410 | 528 | 659 | 803 | 942 | 1065 |
| 40° | 0 | 74 | 140 | 209 | 305 | 415 | 541 | 676 | 829 | 986 | 1113 |
| 37.5° | 0 | 74 | 144 | 214 | 310 | 423 | 550 | 694 | 855 | 1017 | 1156 |
| 35° | 0 | 79 | 148 | 218 | 314 | 428 | 554 | 711 | 877 | 1047 | 1204 |
| 32.5° | 0 | 79 | 148 | 227 | 319 | 436 | 563 | 724 | 903 | 1082 | 1248 |
| 30° | 0 | 79 | 153 | 231 | 319 | 436 | 576 | 737 | 925 | 1117 | 1291 |
| 27.5° | 0 | 83 | 153 | 231 | 327 | 441 | 585 | 755 | 947 | 1156 | 1335 |
| 25° | 0 | 83 | 157 | 236 | 332 | 441 | 589 | 768 | 973 | 1191 | 1374 |
| 22.5° | 0 | 83 | 157 | 240 | 336 | 445 | 593 | 781 | 999 | 1222 | 1418 |
| 20° | 0 | 87 | 161 | 244 | 340 | 449 | 598 | 794 | 1025 | 1248 | 1453 |
| 17.5° | 0 | 87 | 161 | 244 | 345 | 458 | 602 | 803 | 1047 | 1274 | 1483 |
| 15° | 0 | 92 | 161 | 244 | 345 | 463 | 611 | 807 | 1069 | 1296 | 1514 |
| 12.5° | 0 | 92 | 161 | 249 | 345 | 463 | 615 | 816 | 1091 | 1318 | 1536 |
| 10° | 0 | 87 | 166 | 249 | 345 | 467 | 620 | 820 | 1104 | 1331 | 1558 |
| 7.5° | 0 | 87 | 166 | 249 | 349 | 467 | 620 | 820 | 1117 | 1344 | 1571 |
| 5° | 0 | 87 | 161 | 249 | 345 | 471 | 620 | 825 | 1134 | 1357 | 1584 |
| 2.5° | 0 | 87 | 161 | 244 | 345 | 471 | 611 | 816 | 1130 | 1357 | 1592 |
| 0° | 0 | 87 | 161 | 244 | 340 | 467 | 606 | 807 | 1126 | 1353 | 1592 |
| -2.5° | 0 | 87 | 161 | 244 | 345 | 471 | 611 | 816 | 1130 | 1357 | 1592 |
| -5° | 0 | 87 | 161 | 249 | 345 | 471 | 620 | 825 | 1134 | 1357 | 1584 |
| -7.5° | 0 | 87 | 166 | 249 | 349 | 467 | 620 | 820 | 1117 | 1344 | 1571 |
| -10° | 0 | 87 | 166 | 249 | 345 | 467 | 620 | 820 | 1104 | 1331 | 1558 |
| -12.5° | 0 | 92 | 161 | 249 | 345 | 463 | 615 | 816 | 1091 | 1318 | 1536 |
| -15° | 0 | 92 | 161 | 244 | 345 | 463 | 611 | 807 | 1069 | 1296 | 1514 |
| -17.5° | 0 | 87 | 161 | 244 | 345 | 458 | 602 | 803 | 1047 | 1274 | 1483 |
| -20° | 0 | 87 | 161 | 244 | 340 | 449 | 598 | 794 | 1025 | 1248 | 1453 |



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CANDELA DISTRIBUTION (continued):

| | -90° | -87.5° | -85° | -82.5° | -80° | -77.5° | -75° | -72.5° | -70° | -67.5° | -65° |
|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| -22.5° | 0 | 83 | 157 | 240 | 336 | 445 | 593 | 781 | 999 | 1222 | 1418 |
| -25° | 0 | 83 | 157 | 236 | 332 | 441 | 589 | 768 | 973 | 1191 | 1374 |
| -27.5° | 0 | 83 | 153 | 231 | 327 | 441 | 585 | 755 | 947 | 1156 | 1335 |
| -30° | 0 | 79 | 153 | 231 | 319 | 436 | 576 | 737 | 925 | 1117 | 1291 |
| -32.5° | 0 | 79 | 148 | 227 | 319 | 436 | 563 | 724 | 903 | 1082 | 1248 |
| -35° | 0 | 79 | 148 | 218 | 314 | 428 | 554 | 711 | 877 | 1047 | 1204 |
| -37.5° | 0 | 74 | 144 | 214 | 310 | 423 | 550 | 694 | 855 | 1017 | 1156 |
| -40° | 0 | 74 | 140 | 209 | 305 | 415 | 541 | 676 | 829 | 986 | 1113 |
| -42.5° | 0 | 70 | 135 | 201 | 297 | 410 | 528 | 659 | 803 | 942 | 1065 |
| -45° | 0 | 65 | 135 | 196 | 292 | 401 | 515 | 637 | 781 | 899 | 1012 |
| -47.5° | 0 | 65 | 131 | 192 | 284 | 388 | 502 | 624 | 755 | 855 | 964 |
| -50° | 0 | 61 | 127 | 188 | 279 | 380 | 484 | 602 | 716 | 812 | 912 |
| -52.5° | 0 | 57 | 122 | 183 | 271 | 367 | 471 | 580 | 681 | 768 | 864 |
| -55° | 0 | 57 | 118 | 179 | 257 | 353 | 454 | 563 | 646 | 724 | 807 |
| -57.5° | 0 | 52 | 109 | 170 | 249 | 336 | 436 | 537 | 611 | 685 | 759 |
| -60° | 0 | 48 | 105 | 161 | 240 | 323 | 419 | 510 | 572 | 641 | 711 |
| -62.5° | 0 | 44 | 100 | 153 | 223 | 305 | 393 | 480 | 541 | 598 | 663 |
| -65° | 0 | 39 | 92 | 144 | 209 | 288 | 371 | 449 | 506 | 558 | 615 |
| -67.5° | 0 | 39 | 83 | 135 | 196 | 266 | 349 | 415 | 467 | 519 | 567 |
| -70° | 0 | 35 | 74 | 127 | 179 | 244 | 323 | 375 | 423 | 480 | 524 |
| -72.5° | 0 | 31 | 65 | 109 | 161 | 218 | 288 | 336 | 375 | 423 | 476 |
| -75° | 0 | 26 | 57 | 96 | 144 | 192 | 253 | 292 | 327 | 362 | 401 |
| -77.5° | 0 | 22 | 48 | 79 | 122 | 166 | 218 | 249 | 275 | 301 | 327 |
| -80° | 0 | 18 | 39 | 65 | 96 | 135 | 179 | 201 | 223 | 244 | 262 |
| -82.5° | 0 | 13 | 31 | 48 | 74 | 100 | 135 | 153 | 170 | 188 | 201 |
| -85° | 0 | 9 | 18 | 31 | 48 | 70 | 92 | 105 | 113 | 127 | 135 |
| -87.5° | 0 | 4 | 9 | 18 | 26 | 35 | 44 | 52 | 57 | 61 | 70 |
| -90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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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° | 74 | 79 | 83 | 83 | 83 | 79 | 74 | 70 | 79 | 87 | 96 |
| 85° | 144 | 157 | 161 | 170 | 166 | 157 | 153 | 144 | 161 | 179 | 201 |
| 82.5° | 214 | 227 | 236 | 244 | 244 | 236 | 227 | 214 | 240 | 266 | 297 |
| 80° | 279 | 297 | 314 | 327 | 327 | 314 | 301 | 284 | 314 | 353 | 393 |
| 77.5° | 358 | 380 | 397 | 415 | 410 | 406 | 397 | 388 | 419 | 458 | 497 |
| 75° | 436 | 467 | 480 | 497 | 506 | 502 | 502 | 510 | 545 | 593 | 637 |
| 72.5° | 506 | 528 | 554 | 585 | 598 | 606 | 628 | 654 | 689 | 729 | 764 |
| 70° | 563 | 589 | 624 | 654 | 681 | 707 | 737 | 772 | 807 | 846 | 881 |
| 67.5° | 615 | 654 | 689 | 729 | 764 | 803 | 842 | 881 | 921 | 964 | 1008 |
| 65° | 672 | 716 | 759 | 803 | 851 | 899 | 947 | 990 | 1038 | 1095 | 1143 |
| 62.5° | 729 | 777 | 829 | 881 | 938 | 995 | 1051 | 1108 | 1174 | 1235 | 1296 |
| 60° | 781 | 842 | 903 | 969 | 1034 | 1099 | 1161 | 1235 | 1313 | 1383 | 1462 |
| 57.5° | 833 | 908 | 977 | 1051 | 1126 | 1200 | 1287 | 1370 | 1462 | 1553 | 1640 |
| 55° | 890 | 977 | 1056 | 1139 | 1222 | 1318 | 1414 | 1518 | 1619 | 1736 | 1846 |
| 52.5° | 951 | 1043 | 1134 | 1226 | 1331 | 1435 | 1549 | 1671 | 1802 | 1937 | 2072 |
| 50° | 1012 | 1113 | 1213 | 1322 | 1440 | 1562 | 1697 | 1841 | 1998 | 2155 | 2321 |
| 47.5° | 1069 | 1178 | 1300 | 1418 | 1553 | 1697 | 1854 | 2029 | 2203 | 2400 | 2609 |
| 45° | 1130 | 1248 | 1379 | 1523 | 1671 | 1841 | 2029 | 2221 | 2443 | 2666 | 2910 |
| 42.5° | 1191 | 1318 | 1466 | 1619 | 1802 | 1994 | 2199 | 2443 | 2692 | 2967 | 3263 |
| 40° | 1243 | 1387 | 1553 | 1736 | 1933 | 2147 | 2400 | 2666 | 2971 | 3298 | 3665 |
| 37.5° | 1305 | 1462 | 1640 | 1841 | 2068 | 2317 | 2609 | 2919 | 3272 | 3669 | 4110 |
| 35° | 1361 | 1536 | 1732 | 1950 | 2203 | 2491 | 2818 | 3181 | 3591 | 4071 | 4607 |
| 32.5° | 1418 | 1610 | 1819 | 2059 | 2338 | 2666 | 3037 | 3464 | 3948 | 4498 | 5170 |
| 30° | 1475 | 1675 | 1902 | 2164 | 2478 | 2849 | 3276 | 3752 | 4310 | 5004 | 5803 |
| 27.5° | 1527 | 1745 | 1989 | 2277 | 2613 | 3019 | 3503 | 4071 | 4729 | 5510 | 6444 |
| 25° | 1579 | 1806 | 2072 | 2382 | 2757 | 3202 | 3730 | 4354 | 5144 | 6069 | 7177 |
| 22.5° | 1627 | 1867 | 2147 | 2482 | 2888 | 3381 | 3975 | 4686 | 5554 | 6583 | 7888 |
| 20° | 1675 | 1928 | 2225 | 2578 | 3002 | 3543 | 4197 | 4991 | 5977 | 7190 | 8638 |
| 17.5° | 1715 | 1985 | 2299 | 2679 | 3141 | 3708 | 4402 | 5296 | 6361 | 7748 | 9363 |
| 15° | 1754 | 2033 | 2365 | 2766 | 3263 | 3874 | 4625 | 5563 | 6767 | 8276 | 9991 |
| 12.5° | 1784 | 2072 | 2421 | 2845 | 3368 | 4014 | 4817 | 5833 | 7159 | 8774 | 10536 |
| 10° | 1806 | 2107 | 2465 | 2906 | 3455 | 4127 | 4974 | 6051 | 7478 | 9179 | 10990 |
| 7.5° | 1828 | 2133 | 2500 | 2954 | 3521 | 4214 | 5096 | 6221 | 7722 | 9493 | 11339 |
| 5° | 1846 | 2155 | 2526 | 2989 | 3564 | 4280 | 5187 | 6330 | 7897 | 9716 | 11588 |
| 2.5° | 1859 | 2173 | 2548 | 3019 | 3599 | 4350 | 5270 | 6448 | 8062 | 9904 | 11810 |
| 0° | 1859 | 2177 | 2548 | 3019 | 3595 | 4363 | 5283 | 6457 | 8084 | 9899 | 11841 |
| -2.5° | 1859 | 2173 | 2548 | 3019 | 3599 | 4350 | 5270 | 6448 | 8062 | 9904 | 11810 |
| -5° | 1846 | 2155 | 2526 | 2989 | 3564 | 4280 | 5187 | 6330 | 7897 | 9716 | 11588 |
| -7.5° | 1828 | 2133 | 2500 | 2954 | 3521 | 4214 | 5096 | 6221 | 7722 | 9493 | 11339 |
| -10° | 1806 | 2107 | 2465 | 2906 | 3455 | 4127 | 4974 | 6051 | 7478 | 9179 | 10990 |
| -12.5° | 1784 | 2072 | 2421 | 2845 | 3368 | 4014 | 4817 | 5833 | 7159 | 8774 | 10536 |
| -15° | 1754 | 2033 | 2365 | 2766 | 3263 | 3874 | 4625 | 5563 | 6767 | 8276 | 9991 |
| -17.5° | 1715 | 1985 | 2299 | 2679 | 3141 | 3708 | 4402 | 5296 | 6361 | 7748 | 9363 |
| -20° | 1675 | 1928 | 2225 | 2578 | 3002 | 3543 | 4197 | 4991 | 5977 | 7190 | 8638 |



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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° | 1627 | 1867 | 2147 | 2482 | 2888 | 3381 | 3975 | 4686 | 5554 | 6583 | 7888 |
| -25° | 1579 | 1806 | 2072 | 2382 | 2757 | 3202 | 3730 | 4354 | 5144 | 6069 | 7177 |
| -27.5° | 1527 | 1745 | 1989 | 2277 | 2613 | 3019 | 3503 | 4071 | 4729 | 5510 | 6444 |
| -30° | 1475 | 1675 | 1902 | 2164 | 2478 | 2849 | 3276 | 3752 | 4310 | 5004 | 5803 |
| -32.5° | 1418 | 1610 | 1819 | 2059 | 2338 | 2666 | 3037 | 3464 | 3948 | 4498 | 5170 |
| -35° | 1361 | 1536 | 1732 | 1950 | 2203 | 2491 | 2818 | 3181 | 3591 | 4071 | 4607 |
| -37.5° | 1305 | 1462 | 1640 | 1841 | 2068 | 2317 | 2609 | 2919 | 3272 | 3669 | 4110 |
| -40° | 1243 | 1387 | 1553 | 1736 | 1933 | 2147 | 2400 | 2666 | 2971 | 3298 | 3665 |
| -42.5° | 1191 | 1318 | 1466 | 1619 | 1802 | 1994 | 2199 | 2443 | 2692 | 2967 | 3263 |
| -45° | 1130 | 1248 | 1379 | 1523 | 1671 | 1841 | 2029 | 2221 | 2443 | 2666 | 2910 |
| -47.5° | 1069 | 1178 | 1300 | 1418 | 1553 | 1697 | 1854 | 2029 | 2203 | 2400 | 2609 |
| -50° | 1012 | 1113 | 1213 | 1322 | 1440 | 1562 | 1697 | 1841 | 1998 | 2155 | 2321 |
| -52.5° | 951 | 1043 | 1134 | 1226 | 1331 | 1435 | 1549 | 1671 | 1802 | 1937 | 2072 |
| -55° | 890 | 977 | 1056 | 1139 | 1222 | 1318 | 1414 | 1518 | 1619 | 1736 | 1846 |
| -57.5° | 833 | 908 | 977 | 1051 | 1126 | 1200 | 1287 | 1370 | 1462 | 1553 | 1640 |
| -60° | 781 | 842 | 903 | 969 | 1034 | 1099 | 1161 | 1235 | 1313 | 1383 | 1462 |
| -62.5° | 729 | 777 | 829 | 881 | 938 | 995 | 1051 | 1108 | 1174 | 1235 | 1296 |
| -65° | 672 | 716 | 759 | 803 | 851 | 899 | 947 | 990 | 1038 | 1095 | 1143 |
| -67.5° | 615 | 654 | 689 | 729 | 764 | 803 | 842 | 881 | 921 | 964 | 1008 |
| -70° | 563 | 589 | 624 | 654 | 681 | 707 | 737 | 772 | 807 | 846 | 881 |
| -72.5° | 506 | 528 | 554 | 585 | 598 | 606 | 628 | 654 | 689 | 729 | 764 |
| -75° | 436 | 467 | 480 | 497 | 506 | 502 | 502 | 510 | 545 | 593 | 637 |
| -77.5° | 358 | 380 | 397 | 415 | 410 | 406 | 397 | 388 | 419 | 458 | 497 |
| -80° | 279 | 297 | 314 | 327 | 327 | 314 | 301 | 284 | 314 | 353 | 393 |
| -82.5° | 214 | 227 | 236 | 244 | 244 | 236 | 227 | 214 | 240 | 266 | 297 |
| -85° | 144 | 157 | 161 | 170 | 166 | 157 | 153 | 144 | 161 | 179 | 201 |
| -87.5° | 74 | 79 | 83 | 83 | 83 | 79 | 74 | 70 | 79 | 87 | 96 |
| -90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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 CATALOG NUMBER: EPH-VN-08-D-940-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° | 109 | 109 | 109 | 109 | 105 | 109 | 109 | 113 | 118 | 105 | 92 |
| 85° | 218 | 223 | 223 | 223 | 223 | 223 | 223 | 223 | 223 | 201 | 179 |
| 82.5° | 327 | 340 | 349 | 362 | 371 | 371 | 367 | 362 | 353 | 319 | 279 |
| 80° | 432 | 454 | 467 | 480 | 493 | 489 | 484 | 476 | 471 | 428 | 384 |
| 77.5° | 537 | 563 | 580 | 593 | 606 | 611 | 606 | 606 | 602 | 563 | 515 |
| 75° | 672 | 694 | 711 | 729 | 746 | 755 | 759 | 759 | 759 | 724 | 681 |
| 72.5° | 794 | 820 | 846 | 873 | 894 | 908 | 921 | 929 | 938 | 921 | 894 |
| 70° | 921 | 951 | 982 | 1012 | 1043 | 1065 | 1082 | 1099 | 1108 | 1113 | 1113 |
| 67.5° | 1051 | 1091 | 1130 | 1169 | 1204 | 1235 | 1257 | 1278 | 1296 | 1313 | 1322 |
| 65° | 1195 | 1248 | 1296 | 1339 | 1379 | 1418 | 1448 | 1479 | 1505 | 1527 | 1540 |
| 62.5° | 1357 | 1418 | 1475 | 1531 | 1575 | 1623 | 1671 | 1715 | 1750 | 1780 | 1802 |
| 60° | 1536 | 1610 | 1680 | 1750 | 1819 | 1876 | 1937 | 1989 | 2033 | 2072 | 2107 |
| 57.5° | 1736 | 1828 | 1915 | 2007 | 2085 | 2160 | 2234 | 2308 | 2373 | 2426 | 2469 |
| 55° | 1959 | 2072 | 2186 | 2295 | 2404 | 2504 | 2600 | 2696 | 2783 | 2853 | 2914 |
| 52.5° | 2216 | 2352 | 2496 | 2631 | 2779 | 2910 | 3032 | 3163 | 3281 | 3386 | 3473 |
| 50° | 2491 | 2666 | 2853 | 3028 | 3220 | 3403 | 3569 | 3735 | 3900 | 4044 | 4162 |
| 47.5° | 2814 | 3023 | 3268 | 3508 | 3743 | 3992 | 4223 | 4441 | 4668 | 4860 | 5022 |
| 45° | 3163 | 3455 | 3743 | 4066 | 4363 | 4699 | 5017 | 5336 | 5615 | 5894 | 6130 |
| 42.5° | 3578 | 3944 | 4310 | 4725 | 5131 | 5554 | 6003 | 6405 | 6823 | 7234 | 7574 |
| 40° | 4071 | 4502 | 5009 | 5506 | 6069 | 6601 | 7238 | 7801 | 8333 | 8852 | 9293 |
| 37.5° | 4611 | 5183 | 5807 | 6439 | 7203 | 7953 | 8699 | 9406 | 10039 | 10619 | 11081 |
| 35° | 5235 | 5955 | 6697 | 7617 | 8525 | 9441 | 10296 | 11099 | 11819 | 12408 | 12896 |
| 32.5° | 5951 | 6802 | 7827 | 8896 | 9947 | 10964 | 11985 | 12779 | 13529 | 14201 | 14777 |
| 30° | 6710 | 7818 | 9014 | 10209 | 11356 | 12460 | 13490 | 14445 | 15318 | 16072 | 16718 |
| 27.5° | 7600 | 8883 | 10213 | 11496 | 12726 | 13917 | 15087 | 16177 | 17133 | 17927 | 18729 |
| 25° | 8481 | 9952 | 11374 | 12731 | 14061 | 15392 | 16679 | 17905 | 19022 | 19995 | 20863 |
| 22.5° | 9411 | 10946 | 12447 | 13887 | 15396 | 16845 | 18254 | 19650 | 20933 | 22054 | 23031 |
| 20° | 10270 | 11919 | 13450 | 15056 | 16692 | 18263 | 19846 | 21356 | 22787 | 24139 | 25252 |
| 17.5° | 11038 | 12718 | 14388 | 16081 | 17866 | 19646 | 21365 | 23001 | 24632 | 26207 | 27595 |
| 15° | 11723 | 13485 | 15200 | 17045 | 18969 | 20885 | 22800 | 24602 | 26438 | 28184 | 29737 |
| 12.5° | 12329 | 14149 | 15972 | 17935 | 19947 | 21940 | 24039 | 26133 | 28170 | 30051 | 31735 |
| 10° | 12831 | 14720 | 16675 | 18708 | 20797 | 22905 | 25165 | 27490 | 29671 | 31669 | 33502 |
| 7.5° | 13211 | 15152 | 17194 | 19305 | 21509 | 23764 | 26124 | 28493 | 30801 | 32948 | 34867 |
| 5° | 13481 | 15440 | 17538 | 19694 | 21988 | 24344 | 26862 | 29388 | 31744 | 33964 | 35927 |
| 2.5° | 13725 | 15697 | 17835 | 19907 | 22246 | 24689 | 27211 | 29828 | 32237 | 34518 | 36704 |
| 0° | 13791 | 15802 | 17962 | 20091 | 22364 | 24815 | 27385 | 29942 | 32411 | 34889 | 36944 |
| -2.5° | 13725 | 15697 | 17835 | 19907 | 22246 | 24689 | 27211 | 29828 | 32237 | 34518 | 36704 |
| -5° | 13481 | 15440 | 17538 | 19694 | 21988 | 24344 | 26862 | 29388 | 31744 | 33964 | 35927 |
| -7.5° | 13211 | 15152 | 17194 | 19305 | 21509 | 23764 | 26124 | 28493 | 30801 | 32948 | 34867 |
| -10° | 12831 | 14720 | 16675 | 18708 | 20797 | 22905 | 25165 | 27490 | 29671 | 31669 | 33502 |
| -12.5° | 12329 | 14149 | 15972 | 17935 | 19947 | 21940 | 24039 | 26133 | 28170 | 30051 | 31735 |
| -15° | 11723 | 13485 | 15200 | 17045 | 18969 | 20885 | 22800 | 24602 | 26438 | 28184 | 29737 |
| -17.5° | 11038 | 12718 | 14388 | 16081 | 17866 | 19646 | 21365 | 23001 | 24632 | 26207 | 27595 |
| -20° | 10270 | 11919 | 13450 | 15056 | 16692 | 18263 | 19846 | 21356 | 22787 | 24139 | 25252 |



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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° | 9411 | 10946 | 12447 | 13887 | 15396 | 16845 | 18254 | 19650 | 20933 | 22054 | 23031 |
| -25° | 8481 | 9952 | 11374 | 12731 | 14061 | 15392 | 16679 | 17905 | 19022 | 19995 | 20863 |
| -27.5° | 7600 | 8883 | 10213 | 11496 | 12726 | 13917 | 15087 | 16177 | 17133 | 17927 | 18729 |
| -30° | 6710 | 7818 | 9014 | 10209 | 11356 | 12460 | 13490 | 14445 | 15318 | 16072 | 16718 |
| -32.5° | 5951 | 6802 | 7827 | 8896 | 9947 | 10964 | 11985 | 12779 | 13529 | 14201 | 14777 |
| -35° | 5235 | 5955 | 6697 | 7617 | 8525 | 9441 | 10296 | 11099 | 11819 | 12408 | 12896 |
| -37.5° | 4611 | 5183 | 5807 | 6439 | 7203 | 7953 | 8699 | 9406 | 10039 | 10619 | 11081 |
| -40° | 4071 | 4502 | 5009 | 5506 | 6069 | 6601 | 7238 | 7801 | 8333 | 8852 | 9293 |
| -42.5° | 3578 | 3944 | 4310 | 4725 | 5131 | 5554 | 6003 | 6405 | 6823 | 7234 | 7574 |
| -45° | 3163 | 3455 | 3743 | 4066 | 4363 | 4699 | 5017 | 5336 | 5615 | 5894 | 6130 |
| -47.5° | 2814 | 3023 | 3268 | 3508 | 3743 | 3992 | 4223 | 4441 | 4668 | 4860 | 5022 |
| -50° | 2491 | 2666 | 2853 | 3028 | 3220 | 3403 | 3569 | 3735 | 3900 | 4044 | 4162 |
| -52.5° | 2216 | 2352 | 2496 | 2631 | 2779 | 2910 | 3032 | 3163 | 3281 | 3386 | 3473 |
| -55° | 1959 | 2072 | 2186 | 2295 | 2404 | 2504 | 2600 | 2696 | 2783 | 2853 | 2914 |
| -57.5° | 1736 | 1828 | 1915 | 2007 | 2085 | 2160 | 2234 | 2308 | 2373 | 2426 | 2469 |
| -60° | 1536 | 1610 | 1680 | 1750 | 1819 | 1876 | 1937 | 1989 | 2033 | 2072 | 2107 |
| -62.5° | 1357 | 1418 | 1475 | 1531 | 1575 | 1623 | 1671 | 1715 | 1750 | 1780 | 1802 |
| -65° | 1195 | 1248 | 1296 | 1339 | 1379 | 1418 | 1448 | 1479 | 1505 | 1527 | 1540 |
| -67.5° | 1051 | 1091 | 1130 | 1169 | 1204 | 1235 | 1257 | 1278 | 1296 | 1313 | 1322 |
| -70° | 921 | 951 | 982 | 1012 | 1043 | 1065 | 1082 | 1099 | 1108 | 1113 | 1113 |
| -72.5° | 794 | 820 | 846 | 873 | 894 | 908 | 921 | 929 | 938 | 921 | 894 |
| -75° | 672 | 694 | 711 | 729 | 746 | 755 | 759 | 759 | 759 | 724 | 681 |
| -77.5° | 537 | 563 | 580 | 593 | 606 | 611 | 606 | 606 | 602 | 563 | 515 |
| -80° | 432 | 454 | 467 | 480 | 493 | 489 | 484 | 476 | 471 | 428 | 384 |
| -82.5° | 327 | 340 | 349 | 362 | 371 | 371 | 367 | 362 | 353 | 319 | 279 |
| -85° | 218 | 223 | 223 | 223 | 223 | 223 | 223 | 223 | 223 | 201 | 179 |
| -87.5° | 109 | 109 | 109 | 109 | 105 | 109 | 109 | 113 | 118 | 105 | 92 |
| -90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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 CATALOG NUMBER: EPH-VN-08-D-940-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° | 74 | 61 | 57 | 48 | 57 | 61 | 74 | 92 | 105 | 118 | 113 |
| 85° | 153 | 127 | 122 | 113 | 122 | 127 | 153 | 179 | 201 | 223 | 223 |
| 82.5° | 244 | 201 | 192 | 183 | 192 | 201 | 244 | 279 | 319 | 353 | 362 |
| 80° | 345 | 292 | 284 | 275 | 284 | 292 | 345 | 384 | 428 | 471 | 476 |
| 77.5° | 467 | 419 | 401 | 388 | 401 | 419 | 467 | 515 | 563 | 602 | 606 |
| 75° | 633 | 585 | 572 | 558 | 572 | 585 | 633 | 681 | 724 | 759 | 759 |
| 72.5° | 864 | 842 | 807 | 777 | 807 | 842 | 864 | 894 | 921 | 938 | 929 |
| 70° | 1117 | 1126 | 1117 | 1104 | 1117 | 1126 | 1117 | 1113 | 1113 | 1108 | 1099 |
| 67.5° | 1326 | 1335 | 1335 | 1339 | 1335 | 1335 | 1326 | 1322 | 1313 | 1296 | 1278 |
| 65° | 1553 | 1558 | 1571 | 1575 | 1571 | 1558 | 1553 | 1540 | 1527 | 1505 | 1479 |
| 62.5° | 1815 | 1828 | 1837 | 1837 | 1837 | 1828 | 1815 | 1802 | 1780 | 1750 | 1715 |
| 60° | 2129 | 2147 | 2168 | 2173 | 2168 | 2147 | 2129 | 2107 | 2072 | 2033 | 1989 |
| 57.5° | 2504 | 2526 | 2557 | 2565 | 2557 | 2526 | 2504 | 2469 | 2426 | 2373 | 2308 |
| 55° | 2958 | 2989 | 3006 | 2997 | 3006 | 2989 | 2958 | 2914 | 2853 | 2783 | 2696 |
| 52.5° | 3547 | 3599 | 3634 | 3617 | 3634 | 3599 | 3547 | 3473 | 3386 | 3281 | 3163 |
| 50° | 4258 | 4324 | 4367 | 4354 | 4367 | 4324 | 4258 | 4162 | 4044 | 3900 | 3735 |
| 47.5° | 5148 | 5240 | 5314 | 5318 | 5314 | 5240 | 5148 | 5022 | 4860 | 4668 | 4441 |
| 45° | 6317 | 6453 | 6553 | 6535 | 6553 | 6453 | 6317 | 6130 | 5894 | 5615 | 5336 |
| 42.5° | 7836 | 8023 | 8172 | 8158 | 8172 | 8023 | 7836 | 7574 | 7234 | 6823 | 6405 |
| 40° | 9620 | 9851 | 10048 | 10100 | 10048 | 9851 | 9620 | 9293 | 8852 | 8333 | 7801 |
| 37.5° | 11457 | 11753 | 12002 | 11976 | 12002 | 11753 | 11457 | 11081 | 10619 | 10039 | 9406 |
| 35° | 13302 | 13612 | 13856 | 13878 | 13856 | 13612 | 13302 | 12896 | 12408 | 11819 | 11099 |
| 32.5° | 15235 | 15579 | 15867 | 15907 | 15867 | 15579 | 15235 | 14777 | 14201 | 13529 | 12779 |
| 30° | 17250 | 17665 | 18010 | 18079 | 18010 | 17665 | 17250 | 16718 | 16072 | 15318 | 14445 |
| 27.5° | 19371 | 19864 | 20191 | 20317 | 20191 | 19864 | 19371 | 18729 | 17927 | 17133 | 16177 |
| 25° | 21556 | 22093 | 22460 | 22665 | 22460 | 22093 | 21556 | 20863 | 19995 | 19022 | 17905 |
| 22.5° | 23838 | 24475 | 24951 | 25178 | 24951 | 24475 | 23838 | 23031 | 22054 | 20933 | 19650 |
| 20° | 26194 | 26888 | 27442 | 27677 | 27442 | 26888 | 26194 | 25252 | 24139 | 22787 | 21356 |
| 17.5° | 28594 | 29440 | 30055 | 30356 | 30055 | 29440 | 28594 | 27595 | 26207 | 24632 | 23001 |
| 15° | 30923 | 31822 | 32490 | 32812 | 32490 | 31822 | 30923 | 29737 | 28184 | 26438 | 24602 |
| 12.5° | 33083 | 34034 | 34702 | 35168 | 34702 | 34034 | 33083 | 31735 | 30051 | 28170 | 26133 |
| 10° | 35011 | 36050 | 36726 | 37210 | 36726 | 36050 | 35011 | 33502 | 31669 | 29671 | 27490 |
| 7.5° | 36455 | 37769 | 38532 | 39008 | 38532 | 37769 | 36455 | 34867 | 32948 | 30801 | 28493 |
| 5° | 37563 | 39012 | 39706 | 40155 | 39706 | 39012 | 37563 | 35927 | 33964 | 31744 | 29388 |
| 2.5° | 38375 | 39518 | 40386 | 40836 | 40386 | 39518 | 38375 | 36704 | 34518 | 32237 | 29828 |
| 0° | 38693 | 40037 | 40652 | 40945 | 40652 | 40037 | 38693 | 36944 | 34889 | 32411 | 29942 |
| -2.5° | 38375 | 39518 | 40386 | 40836 | 40386 | 39518 | 38375 | 36704 | 34518 | 32237 | 29828 |
| -5° | 37563 | 39012 | 39706 | 40155 | 39706 | 39012 | 37563 | 35927 | 33964 | 31744 | 29388 |
| -7.5° | 36455 | 37769 | 38532 | 39008 | 38532 | 37769 | 36455 | 34867 | 32948 | 30801 | 28493 |
| -10° | 35011 | 36050 | 36726 | 37210 | 36726 | 36050 | 35011 | 33502 | 31669 | 29671 | 27490 |
| -12.5° | 33083 | 34034 | 34702 | 35168 | 34702 | 34034 | 33083 | 31735 | 30051 | 28170 | 26133 |
| -15° | 30923 | 31822 | 32490 | 32812 | 32490 | 31822 | 30923 | 29737 | 28184 | 26438 | 24602 |
| -17.5° | 28594 | 29440 | 30055 | 30356 | 30055 | 29440 | 28594 | 27595 | 26207 | 24632 | 23001 |
| -20° | 26194 | 26888 | 27442 | 27677 | 27442 | 26888 | 26194 | 25252 | 24139 | 22787 | 21356 |



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 CATALOG NUMBER: EPH-VN-08-D-940-U-66

CANDELA DISTRIBUTION (continued):

| | -7.5° | -5° | -2.5° | 0° | 2.5° | 5° | 7.5° | 10° | 12.5° | 15° | 17.5° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -22.5° | 23838 | 24475 | 24951 | 25178 | 24951 | 24475 | 23838 | 23031 | 22054 | 20933 | 19650 |
| -25° | 21556 | 22093 | 22460 | 22665 | 22460 | 22093 | 21556 | 20863 | 19995 | 19022 | 17905 |
| -27.5° | 19371 | 19864 | 20191 | 20317 | 20191 | 19864 | 19371 | 18729 | 17927 | 17133 | 16177 |
| -30° | 17250 | 17665 | 18010 | 18079 | 18010 | 17665 | 17250 | 16718 | 16072 | 15318 | 14445 |
| -32.5° | 15235 | 15579 | 15867 | 15907 | 15867 | 15579 | 15235 | 14777 | 14201 | 13529 | 12779 |
| -35° | 13302 | 13612 | 13856 | 13878 | 13856 | 13612 | 13302 | 12896 | 12408 | 11819 | 11099 |
| -37.5° | 11457 | 11753 | 12002 | 11976 | 12002 | 11753 | 11457 | 11081 | 10619 | 10039 | 9406 |
| -40° | 9620 | 9851 | 10048 | 10100 | 10048 | 9851 | 9620 | 9293 | 8852 | 8333 | 7801 |
| -42.5° | 7836 | 8023 | 8172 | 8158 | 8172 | 8023 | 7836 | 7574 | 7234 | 6823 | 6405 |
| -45° | 6317 | 6453 | 6553 | 6535 | 6553 | 6453 | 6317 | 6130 | 5894 | 5615 | 5336 |
| -47.5° | 5148 | 5240 | 5314 | 5318 | 5314 | 5240 | 5148 | 5022 | 4860 | 4668 | 4441 |
| -50° | 4258 | 4324 | 4367 | 4354 | 4367 | 4324 | 4258 | 4162 | 4044 | 3900 | 3735 |
| -52.5° | 3547 | 3599 | 3634 | 3617 | 3634 | 3599 | 3547 | 3473 | 3386 | 3281 | 3163 |
| -55° | 2958 | 2989 | 3006 | 2997 | 3006 | 2989 | 2958 | 2914 | 2853 | 2783 | 2696 |
| -57.5° | 2504 | 2526 | 2557 | 2565 | 2557 | 2526 | 2504 | 2469 | 2426 | 2373 | 2308 |
| -60° | 2129 | 2147 | 2168 | 2173 | 2168 | 2147 | 2129 | 2107 | 2072 | 2033 | 1989 |
| -62.5° | 1815 | 1828 | 1837 | 1837 | 1837 | 1828 | 1815 | 1802 | 1780 | 1750 | 1715 |
| -65° | 1553 | 1558 | 1571 | 1575 | 1571 | 1558 | 1553 | 1540 | 1527 | 1505 | 1479 |
| -67.5° | 1326 | 1335 | 1335 | 1339 | 1335 | 1335 | 1326 | 1322 | 1313 | 1296 | 1278 |
| -70° | 1117 | 1126 | 1117 | 1104 | 1117 | 1126 | 1117 | 1113 | 1113 | 1108 | 1099 |
| -72.5° | 864 | 842 | 807 | 777 | 807 | 842 | 864 | 894 | 921 | 938 | 929 |
| -75° | 633 | 585 | 572 | 558 | 572 | 585 | 633 | 681 | 724 | 759 | 759 |
| -77.5° | 467 | 419 | 401 | 388 | 401 | 419 | 467 | 515 | 563 | 602 | 606 |
| -80° | 345 | 292 | 284 | 275 | 284 | 292 | 345 | 384 | 428 | 471 | 476 |
| -82.5° | 244 | 201 | 192 | 183 | 192 | 201 | 244 | 279 | 319 | 353 | 362 |
| -85° | 153 | 127 | 122 | 113 | 122 | 127 | 153 | 179 | 201 | 223 | 223 |
| -87.5° | 74 | 61 | 57 | 48 | 57 | 61 | 74 | 92 | 105 | 118 | 113 |
| -90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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 CATALOG NUMBER: EPH-VN-08-D-940-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° | 109 | 109 | 105 | 109 | 109 | 109 | 109 | 96 | 87 | 79 | 70 |
| 85° | 223 | 223 | 223 | 223 | 223 | 223 | 218 | 201 | 179 | 161 | 144 |
| 82.5° | 367 | 371 | 371 | 362 | 349 | 340 | 327 | 297 | 266 | 240 | 214 |
| 80° | 484 | 489 | 493 | 480 | 467 | 454 | 432 | 393 | 353 | 314 | 284 |
| 77.5° | 606 | 611 | 606 | 593 | 580 | 563 | 537 | 497 | 458 | 419 | 388 |
| 75° | 759 | 755 | 746 | 729 | 711 | 694 | 672 | 637 | 593 | 545 | 510 |
| 72.5° | 921 | 908 | 894 | 873 | 846 | 820 | 794 | 764 | 729 | 689 | 654 |
| 70° | 1082 | 1065 | 1043 | 1012 | 982 | 951 | 921 | 881 | 846 | 807 | 772 |
| 67.5° | 1257 | 1235 | 1204 | 1169 | 1130 | 1091 | 1051 | 1008 | 964 | 921 | 881 |
| 65° | 1448 | 1418 | 1379 | 1339 | 1296 | 1248 | 1195 | 1143 | 1095 | 1038 | 990 |
| 62.5° | 1671 | 1623 | 1575 | 1531 | 1475 | 1418 | 1357 | 1296 | 1235 | 1174 | 1108 |
| 60° | 1937 | 1876 | 1819 | 1750 | 1680 | 1610 | 1536 | 1462 | 1383 | 1313 | 1235 |
| 57.5° | 2234 | 2160 | 2085 | 2007 | 1915 | 1828 | 1736 | 1640 | 1553 | 1462 | 1370 |
| 55° | 2600 | 2504 | 2404 | 2295 | 2186 | 2072 | 1959 | 1846 | 1736 | 1619 | 1518 |
| 52.5° | 3032 | 2910 | 2779 | 2631 | 2496 | 2352 | 2216 | 2072 | 1937 | 1802 | 1671 |
| 50° | 3569 | 3403 | 3220 | 3028 | 2853 | 2666 | 2491 | 2321 | 2155 | 1998 | 1841 |
| 47.5° | 4223 | 3992 | 3743 | 3508 | 3268 | 3023 | 2814 | 2609 | 2400 | 2203 | 2029 |
| 45° | 5017 | 4699 | 4363 | 4066 | 3743 | 3455 | 3163 | 2910 | 2666 | 2443 | 2221 |
| 42.5° | 6003 | 5554 | 5131 | 4725 | 4310 | 3944 | 3578 | 3263 | 2967 | 2692 | 2443 |
| 40° | 7238 | 6601 | 6069 | 5506 | 5009 | 4502 | 4071 | 3665 | 3298 | 2971 | 2666 |
| 37.5° | 8699 | 7953 | 7203 | 6439 | 5807 | 5183 | 4611 | 4110 | 3669 | 3272 | 2919 |
| 35° | 10296 | 9441 | 8525 | 7617 | 6697 | 5955 | 5235 | 4607 | 4071 | 3591 | 3181 |
| 32.5° | 11985 | 10964 | 9947 | 8896 | 7827 | 6802 | 5951 | 5170 | 4498 | 3948 | 3464 |
| 30° | 13490 | 12460 | 11356 | 10209 | 9014 | 7818 | 6710 | 5803 | 5004 | 4310 | 3752 |
| 27.5° | 15087 | 13917 | 12726 | 11496 | 10213 | 8883 | 7600 | 6444 | 5510 | 4729 | 4071 |
| 25° | 16679 | 15392 | 14061 | 12731 | 11374 | 9952 | 8481 | 7177 | 6069 | 5144 | 4354 |
| 22.5° | 18254 | 16845 | 15396 | 13887 | 12447 | 10946 | 9411 | 7888 | 6583 | 5554 | 4686 |
| 20° | 19846 | 18263 | 16692 | 15056 | 13450 | 11919 | 10270 | 8638 | 7190 | 5977 | 4991 |
| 17.5° | 21365 | 19646 | 17866 | 16081 | 14388 | 12718 | 11038 | 9363 | 7748 | 6361 | 5296 |
| 15° | 22800 | 20885 | 18969 | 17045 | 15200 | 13485 | 11723 | 9991 | 8276 | 6767 | 5563 |
| 12.5° | 24039 | 21940 | 19947 | 17935 | 15972 | 14149 | 12329 | 10536 | 8774 | 7159 | 5833 |
| 10° | 25165 | 22905 | 20797 | 18708 | 16675 | 14720 | 12831 | 10990 | 9179 | 7478 | 6051 |
| 7.5° | 26124 | 23764 | 21509 | 19305 | 17194 | 15152 | 13211 | 11339 | 9493 | 7722 | 6221 |
| 5° | 26862 | 24344 | 21988 | 19694 | 17538 | 15440 | 13481 | 11588 | 9716 | 7897 | 6330 |
| 2.5° | 27211 | 24689 | 22246 | 19907 | 17835 | 15697 | 13725 | 11810 | 9904 | 8062 | 6448 |
| 0° | 27385 | 24815 | 22364 | 20091 | 17962 | 15802 | 13791 | 11841 | 9899 | 8084 | 6457 |
| -2.5° | 27211 | 24689 | 22246 | 19907 | 17835 | 15697 | 13725 | 11810 | 9904 | 8062 | 6448 |
| -5° | 26862 | 24344 | 21988 | 19694 | 17538 | 15440 | 13481 | 11588 | 9716 | 7897 | 6330 |
| -7.5° | 26124 | 23764 | 21509 | 19305 | 17194 | 15152 | 13211 | 11339 | 9493 | 7722 | 6221 |
| -10° | 25165 | 22905 | 20797 | 18708 | 16675 | 14720 | 12831 | 10990 | 9179 | 7478 | 6051 |
| -12.5° | 24039 | 21940 | 19947 | 17935 | 15972 | 14149 | 12329 | 10536 | 8774 | 7159 | 5833 |
| -15° | 22800 | 20885 | 18969 | 17045 | 15200 | 13485 | 11723 | 9991 | 8276 | 6767 | 5563 |
| -17.5° | 21365 | 19646 | 17866 | 16081 | 14388 | 12718 | 11038 | 9363 | 7748 | 6361 | 5296 |
| -20° | 19846 | 18263 | 16692 | 15056 | 13450 | 11919 | 10270 | 8638 | 7190 | 5977 | 4991 |



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 CATALOG NUMBER: EPH-VN-08-D-940-U-66

CANDELA DISTRIBUTION (continued):

| | 20° | 22.5° | 25° | 27.5° | 30° | 32.5° | 35° | 37.5° | 40° | 42.5° | 45° |
|--------|-------|-------|-------|-------|-------|-------|------|-------|------|-------|------|
| -22.5° | 18254 | 16845 | 15396 | 13887 | 12447 | 10946 | 9411 | 7888 | 6583 | 5554 | 4686 |
| -25° | 16679 | 15392 | 14061 | 12731 | 11374 | 9952 | 8481 | 7177 | 6069 | 5144 | 4354 |
| -27.5° | 15087 | 13917 | 12726 | 11496 | 10213 | 8883 | 7600 | 6444 | 5510 | 4729 | 4071 |
| -30° | 13490 | 12460 | 11356 | 10209 | 9014 | 7818 | 6710 | 5803 | 5004 | 4310 | 3752 |
| -32.5° | 11985 | 10964 | 9947 | 8896 | 7827 | 6802 | 5951 | 5170 | 4498 | 3948 | 3464 |
| -35° | 10296 | 9441 | 8525 | 7617 | 6697 | 5955 | 5235 | 4607 | 4071 | 3591 | 3181 |
| -37.5° | 8699 | 7953 | 7203 | 6439 | 5807 | 5183 | 4611 | 4110 | 3669 | 3272 | 2919 |
| -40° | 7238 | 6601 | 6069 | 5506 | 5009 | 4502 | 4071 | 3665 | 3298 | 2971 | 2666 |
| -42.5° | 6003 | 5554 | 5131 | 4725 | 4310 | 3944 | 3578 | 3263 | 2967 | 2692 | 2443 |
| -45° | 5017 | 4699 | 4363 | 4066 | 3743 | 3455 | 3163 | 2910 | 2666 | 2443 | 2221 |
| -47.5° | 4223 | 3992 | 3743 | 3508 | 3268 | 3023 | 2814 | 2609 | 2400 | 2203 | 2029 |
| -50° | 3569 | 3403 | 3220 | 3028 | 2853 | 2666 | 2491 | 2321 | 2155 | 1998 | 1841 |
| -52.5° | 3032 | 2910 | 2779 | 2631 | 2496 | 2352 | 2216 | 2072 | 1937 | 1802 | 1671 |
| -55° | 2600 | 2504 | 2404 | 2295 | 2186 | 2072 | 1959 | 1846 | 1736 | 1619 | 1518 |
| -57.5° | 2234 | 2160 | 2085 | 2007 | 1915 | 1828 | 1736 | 1640 | 1553 | 1462 | 1370 |
| -60° | 1937 | 1876 | 1819 | 1750 | 1680 | 1610 | 1536 | 1462 | 1383 | 1313 | 1235 |
| -62.5° | 1671 | 1623 | 1575 | 1531 | 1475 | 1418 | 1357 | 1296 | 1235 | 1174 | 1108 |
| -65° | 1448 | 1418 | 1379 | 1339 | 1296 | 1248 | 1195 | 1143 | 1095 | 1038 | 990 |
| -67.5° | 1257 | 1235 | 1204 | 1169 | 1130 | 1091 | 1051 | 1008 | 964 | 921 | 881 |
| -70° | 1082 | 1065 | 1043 | 1012 | 982 | 951 | 921 | 881 | 846 | 807 | 772 |
| -72.5° | 921 | 908 | 894 | 873 | 846 | 820 | 794 | 764 | 729 | 689 | 654 |
| -75° | 759 | 755 | 746 | 729 | 711 | 694 | 672 | 637 | 593 | 545 | 510 |
| -77.5° | 606 | 611 | 606 | 593 | 580 | 563 | 537 | 497 | 458 | 419 | 388 |
| -80° | 484 | 489 | 493 | 480 | 467 | 454 | 432 | 393 | 353 | 314 | 284 |
| -82.5° | 367 | 371 | 371 | 362 | 349 | 340 | 327 | 297 | 266 | 240 | 214 |
| -85° | 223 | 223 | 223 | 223 | 223 | 223 | 218 | 201 | 179 | 161 | 144 |
| -87.5° | 109 | 109 | 105 | 109 | 109 | 109 | 109 | 96 | 87 | 79 | 70 |
| -90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



REPORT NUMBER: P622363
 CATALOG NUMBER: EPH-VN-08-D-940-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° | 74 | 79 | 83 | 83 | 83 | 79 | 74 | 70 | 61 | 57 | 52 |
| 85° | 153 | 157 | 166 | 170 | 161 | 157 | 144 | 135 | 127 | 113 | 105 |
| 82.5° | 227 | 236 | 244 | 244 | 236 | 227 | 214 | 201 | 188 | 170 | 153 |
| 80° | 301 | 314 | 327 | 327 | 314 | 297 | 279 | 262 | 244 | 223 | 201 |
| 77.5° | 397 | 406 | 410 | 415 | 397 | 380 | 358 | 327 | 301 | 275 | 249 |
| 75° | 502 | 502 | 506 | 497 | 480 | 467 | 436 | 401 | 362 | 327 | 292 |
| 72.5° | 628 | 606 | 598 | 585 | 554 | 528 | 506 | 476 | 423 | 375 | 336 |
| 70° | 737 | 707 | 681 | 654 | 624 | 589 | 563 | 524 | 480 | 423 | 375 |
| 67.5° | 842 | 803 | 764 | 729 | 689 | 654 | 615 | 567 | 519 | 467 | 415 |
| 65° | 947 | 899 | 851 | 803 | 759 | 716 | 672 | 615 | 558 | 506 | 449 |
| 62.5° | 1051 | 995 | 938 | 881 | 829 | 777 | 729 | 663 | 598 | 541 | 480 |
| 60° | 1161 | 1099 | 1034 | 969 | 903 | 842 | 781 | 711 | 641 | 572 | 510 |
| 57.5° | 1287 | 1200 | 1126 | 1051 | 977 | 908 | 833 | 759 | 685 | 611 | 537 |
| 55° | 1414 | 1318 | 1222 | 1139 | 1056 | 977 | 890 | 807 | 724 | 646 | 563 |
| 52.5° | 1549 | 1435 | 1331 | 1226 | 1134 | 1043 | 951 | 864 | 768 | 681 | 580 |
| 50° | 1697 | 1562 | 1440 | 1322 | 1213 | 1113 | 1012 | 912 | 812 | 716 | 602 |
| 47.5° | 1854 | 1697 | 1553 | 1418 | 1300 | 1178 | 1069 | 964 | 855 | 755 | 624 |
| 45° | 2029 | 1841 | 1671 | 1523 | 1379 | 1248 | 1130 | 1012 | 899 | 781 | 637 |
| 42.5° | 2199 | 1994 | 1802 | 1619 | 1466 | 1318 | 1191 | 1065 | 942 | 803 | 659 |
| 40° | 2400 | 2147 | 1933 | 1736 | 1553 | 1387 | 1243 | 1113 | 986 | 829 | 676 |
| 37.5° | 2609 | 2317 | 2068 | 1841 | 1640 | 1462 | 1305 | 1156 | 1017 | 855 | 694 |
| 35° | 2818 | 2491 | 2203 | 1950 | 1732 | 1536 | 1361 | 1204 | 1047 | 877 | 711 |
| 32.5° | 3037 | 2666 | 2338 | 2059 | 1819 | 1610 | 1418 | 1248 | 1082 | 903 | 724 |
| 30° | 3276 | 2849 | 2478 | 2164 | 1902 | 1675 | 1475 | 1291 | 1117 | 925 | 737 |
| 27.5° | 3503 | 3019 | 2613 | 2277 | 1989 | 1745 | 1527 | 1335 | 1156 | 947 | 755 |
| 25° | 3730 | 3202 | 2757 | 2382 | 2072 | 1806 | 1579 | 1374 | 1191 | 973 | 768 |
| 22.5° | 3975 | 3381 | 2888 | 2482 | 2147 | 1867 | 1627 | 1418 | 1222 | 999 | 781 |
| 20° | 4197 | 3543 | 3002 | 2578 | 2225 | 1928 | 1675 | 1453 | 1248 | 1025 | 794 |
| 17.5° | 4402 | 3708 | 3141 | 2679 | 2299 | 1985 | 1715 | 1483 | 1274 | 1047 | 803 |
| 15° | 4625 | 3874 | 3263 | 2766 | 2365 | 2033 | 1754 | 1514 | 1296 | 1069 | 807 |
| 12.5° | 4817 | 4014 | 3368 | 2845 | 2421 | 2072 | 1784 | 1536 | 1318 | 1091 | 816 |
| 10° | 4974 | 4127 | 3455 | 2906 | 2465 | 2107 | 1806 | 1558 | 1331 | 1104 | 820 |
| 7.5° | 5096 | 4214 | 3521 | 2954 | 2500 | 2133 | 1828 | 1571 | 1344 | 1117 | 820 |
| 5° | 5187 | 4280 | 3564 | 2989 | 2526 | 2155 | 1846 | 1584 | 1357 | 1134 | 825 |
| 2.5° | 5270 | 4350 | 3599 | 3019 | 2548 | 2173 | 1859 | 1592 | 1357 | 1130 | 816 |
| 0° | 5283 | 4363 | 3595 | 3019 | 2548 | 2177 | 1859 | 1592 | 1353 | 1126 | 807 |
| -2.5° | 5270 | 4350 | 3599 | 3019 | 2548 | 2173 | 1859 | 1592 | 1357 | 1130 | 816 |
| -5° | 5187 | 4280 | 3564 | 2989 | 2526 | 2155 | 1846 | 1584 | 1357 | 1134 | 825 |
| -7.5° | 5096 | 4214 | 3521 | 2954 | 2500 | 2133 | 1828 | 1571 | 1344 | 1117 | 820 |
| -10° | 4974 | 4127 | 3455 | 2906 | 2465 | 2107 | 1806 | 1558 | 1331 | 1104 | 820 |
| -12.5° | 4817 | 4014 | 3368 | 2845 | 2421 | 2072 | 1784 | 1536 | 1318 | 1091 | 816 |
| -15° | 4625 | 3874 | 3263 | 2766 | 2365 | 2033 | 1754 | 1514 | 1296 | 1069 | 807 |
| -17.5° | 4402 | 3708 | 3141 | 2679 | 2299 | 1985 | 1715 | 1483 | 1274 | 1047 | 803 |
| -20° | 4197 | 3543 | 3002 | 2578 | 2225 | 1928 | 1675 | 1453 | 1248 | 1025 | 794 |



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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° | 3975 | 3381 | 2888 | 2482 | 2147 | 1867 | 1627 | 1418 | 1222 | 999 | 781 |
| -25° | 3730 | 3202 | 2757 | 2382 | 2072 | 1806 | 1579 | 1374 | 1191 | 973 | 768 |
| -27.5° | 3503 | 3019 | 2613 | 2277 | 1989 | 1745 | 1527 | 1335 | 1156 | 947 | 755 |
| -30° | 3276 | 2849 | 2478 | 2164 | 1902 | 1675 | 1475 | 1291 | 1117 | 925 | 737 |
| -32.5° | 3037 | 2666 | 2338 | 2059 | 1819 | 1610 | 1418 | 1248 | 1082 | 903 | 724 |
| -35° | 2818 | 2491 | 2203 | 1950 | 1732 | 1536 | 1361 | 1204 | 1047 | 877 | 711 |
| -37.5° | 2609 | 2317 | 2068 | 1841 | 1640 | 1462 | 1305 | 1156 | 1017 | 855 | 694 |
| -40° | 2400 | 2147 | 1933 | 1736 | 1553 | 1387 | 1243 | 1113 | 986 | 829 | 676 |
| -42.5° | 2199 | 1994 | 1802 | 1619 | 1466 | 1318 | 1191 | 1065 | 942 | 803 | 659 |
| -45° | 2029 | 1841 | 1671 | 1523 | 1379 | 1248 | 1130 | 1012 | 899 | 781 | 637 |
| -47.5° | 1854 | 1697 | 1553 | 1418 | 1300 | 1178 | 1069 | 964 | 855 | 755 | 624 |
| -50° | 1697 | 1562 | 1440 | 1322 | 1213 | 1113 | 1012 | 912 | 812 | 716 | 602 |
| -52.5° | 1549 | 1435 | 1331 | 1226 | 1134 | 1043 | 951 | 864 | 768 | 681 | 580 |
| -55° | 1414 | 1318 | 1222 | 1139 | 1056 | 977 | 890 | 807 | 724 | 646 | 563 |
| -57.5° | 1287 | 1200 | 1126 | 1051 | 977 | 908 | 833 | 759 | 685 | 611 | 537 |
| -60° | 1161 | 1099 | 1034 | 969 | 903 | 842 | 781 | 711 | 641 | 572 | 510 |
| -62.5° | 1051 | 995 | 938 | 881 | 829 | 777 | 729 | 663 | 598 | 541 | 480 |
| -65° | 947 | 899 | 851 | 803 | 759 | 716 | 672 | 615 | 558 | 506 | 449 |
| -67.5° | 842 | 803 | 764 | 729 | 689 | 654 | 615 | 567 | 519 | 467 | 415 |
| -70° | 737 | 707 | 681 | 654 | 624 | 589 | 563 | 524 | 480 | 423 | 375 |
| -72.5° | 628 | 606 | 598 | 585 | 554 | 528 | 506 | 476 | 423 | 375 | 336 |
| -75° | 502 | 502 | 506 | 497 | 480 | 467 | 436 | 401 | 362 | 327 | 292 |
| -77.5° | 397 | 406 | 410 | 415 | 397 | 380 | 358 | 327 | 301 | 275 | 249 |
| -80° | 301 | 314 | 327 | 327 | 314 | 297 | 279 | 262 | 244 | 223 | 201 |
| -82.5° | 227 | 236 | 244 | 244 | 236 | 227 | 214 | 201 | 188 | 170 | 153 |
| -85° | 153 | 157 | 166 | 170 | 161 | 157 | 144 | 135 | 127 | 113 | 105 |
| -87.5° | 74 | 79 | 83 | 83 | 83 | 79 | 74 | 70 | 61 | 57 | 52 |
| -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° | 44 | 35 | 26 | 18 | 9 | 4 | 0 |
| 85° | 92 | 70 | 48 | 31 | 18 | 9 | 0 |
| 82.5° | 135 | 100 | 74 | 48 | 31 | 13 | 0 |
| 80° | 179 | 135 | 96 | 65 | 39 | 18 | 0 |
| 77.5° | 218 | 166 | 122 | 79 | 48 | 22 | 0 |
| 75° | 253 | 192 | 144 | 96 | 57 | 26 | 0 |
| 72.5° | 288 | 218 | 161 | 109 | 65 | 31 | 0 |
| 70° | 323 | 244 | 179 | 127 | 74 | 35 | 0 |
| 67.5° | 349 | 266 | 196 | 135 | 83 | 39 | 0 |
| 65° | 371 | 288 | 209 | 144 | 92 | 39 | 0 |
| 62.5° | 393 | 305 | 223 | 153 | 100 | 44 | 0 |
| 60° | 419 | 323 | 240 | 161 | 105 | 48 | 0 |
| 57.5° | 436 | 336 | 249 | 170 | 109 | 52 | 0 |
| 55° | 454 | 353 | 257 | 179 | 118 | 57 | 0 |
| 52.5° | 471 | 367 | 271 | 183 | 122 | 57 | 0 |
| 50° | 484 | 380 | 279 | 188 | 127 | 61 | 0 |
| 47.5° | 502 | 388 | 284 | 192 | 131 | 65 | 0 |
| 45° | 515 | 401 | 292 | 196 | 135 | 65 | 0 |
| 42.5° | 528 | 410 | 297 | 201 | 135 | 70 | 0 |
| 40° | 541 | 415 | 305 | 209 | 140 | 74 | 0 |
| 37.5° | 550 | 423 | 310 | 214 | 144 | 74 | 0 |
| 35° | 554 | 428 | 314 | 218 | 148 | 79 | 0 |
| 32.5° | 563 | 436 | 319 | 227 | 148 | 79 | 0 |
| 30° | 576 | 436 | 319 | 231 | 153 | 79 | 0 |
| 27.5° | 585 | 441 | 327 | 231 | 153 | 83 | 0 |
| 25° | 589 | 441 | 332 | 236 | 157 | 83 | 0 |
| 22.5° | 593 | 445 | 336 | 240 | 157 | 83 | 0 |
| 20° | 598 | 449 | 340 | 244 | 161 | 87 | 0 |
| 17.5° | 602 | 458 | 345 | 244 | 161 | 87 | 0 |
| 15° | 611 | 463 | 345 | 244 | 161 | 92 | 0 |
| 12.5° | 615 | 463 | 345 | 249 | 161 | 92 | 0 |
| 10° | 620 | 467 | 345 | 249 | 166 | 87 | 0 |
| 7.5° | 620 | 467 | 349 | 249 | 166 | 87 | 0 |
| 5° | 620 | 471 | 345 | 249 | 161 | 87 | 0 |
| 2.5° | 611 | 471 | 345 | 244 | 161 | 87 | 0 |
| 0° | 606 | 467 | 340 | 244 | 161 | 87 | 0 |
| -2.5° | 611 | 471 | 345 | 244 | 161 | 87 | 0 |
| -5° | 620 | 471 | 345 | 249 | 161 | 87 | 0 |
| -7.5° | 620 | 467 | 349 | 249 | 166 | 87 | 0 |
| -10° | 620 | 467 | 345 | 249 | 166 | 87 | 0 |
| -12.5° | 615 | 463 | 345 | 249 | 161 | 92 | 0 |
| -15° | 611 | 463 | 345 | 244 | 161 | 92 | 0 |
| -17.5° | 602 | 458 | 345 | 244 | 161 | 87 | 0 |
| -20° | 598 | 449 | 340 | 244 | 161 | 87 | 0 |



REPORT NUMBER: P622363
 CATALOG NUMBER: EPH-VN-08-D-940-U-66

CANDELA DISTRIBUTION (continued):

| | 75° | 77.5° | 80° | 82.5° | 85° | 87.5° | 90° |
|--------|-----|-------|-----|-------|-----|-------|-----|
| -22.5° | 593 | 445 | 336 | 240 | 157 | 83 | 0 |
| -25° | 589 | 441 | 332 | 236 | 157 | 83 | 0 |
| -27.5° | 585 | 441 | 327 | 231 | 153 | 83 | 0 |
| -30° | 576 | 436 | 319 | 231 | 153 | 79 | 0 |
| -32.5° | 563 | 436 | 319 | 227 | 148 | 79 | 0 |
| -35° | 554 | 428 | 314 | 218 | 148 | 79 | 0 |
| -37.5° | 550 | 423 | 310 | 214 | 144 | 74 | 0 |
| -40° | 541 | 415 | 305 | 209 | 140 | 74 | 0 |
| -42.5° | 528 | 410 | 297 | 201 | 135 | 70 | 0 |
| -45° | 515 | 401 | 292 | 196 | 135 | 65 | 0 |
| -47.5° | 502 | 388 | 284 | 192 | 131 | 65 | 0 |
| -50° | 484 | 380 | 279 | 188 | 127 | 61 | 0 |
| -52.5° | 471 | 367 | 271 | 183 | 122 | 57 | 0 |
| -55° | 454 | 353 | 257 | 179 | 118 | 57 | 0 |
| -57.5° | 436 | 336 | 249 | 170 | 109 | 52 | 0 |
| -60° | 419 | 323 | 240 | 161 | 105 | 48 | 0 |
| -62.5° | 393 | 305 | 223 | 153 | 100 | 44 | 0 |
| -65° | 371 | 288 | 209 | 144 | 92 | 39 | 0 |
| -67.5° | 349 | 266 | 196 | 135 | 83 | 39 | 0 |
| -70° | 323 | 244 | 179 | 127 | 74 | 35 | 0 |
| -72.5° | 288 | 218 | 161 | 109 | 65 | 31 | 0 |
| -75° | 253 | 192 | 144 | 96 | 57 | 26 | 0 |
| -77.5° | 218 | 166 | 122 | 79 | 48 | 22 | 0 |
| -80° | 179 | 135 | 96 | 65 | 39 | 18 | 0 |
| -82.5° | 135 | 100 | 74 | 48 | 31 | 13 | 0 |
| -85° | 92 | 70 | 48 | 31 | 18 | 9 | 0 |
| -87.5° | 44 | 35 | 26 | 18 | 9 | 4 | 0 |
| -90° | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(END OF REPORT)