

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: L081701901

Luminaire Tested: **RHB-24-UNV-L840-CD-U WITH RHB-FRR**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: L081701901
Test Lab: LIGHT LABORATORY, INC. (www.lightlaboratory.com)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: RHB-24-UNV-L840-CD-U WITH RHB-FRR
Description: LED High bay
Light Source: -
Ballast/Driver: -
MEAN WELL HLG-185H-36B

Summary

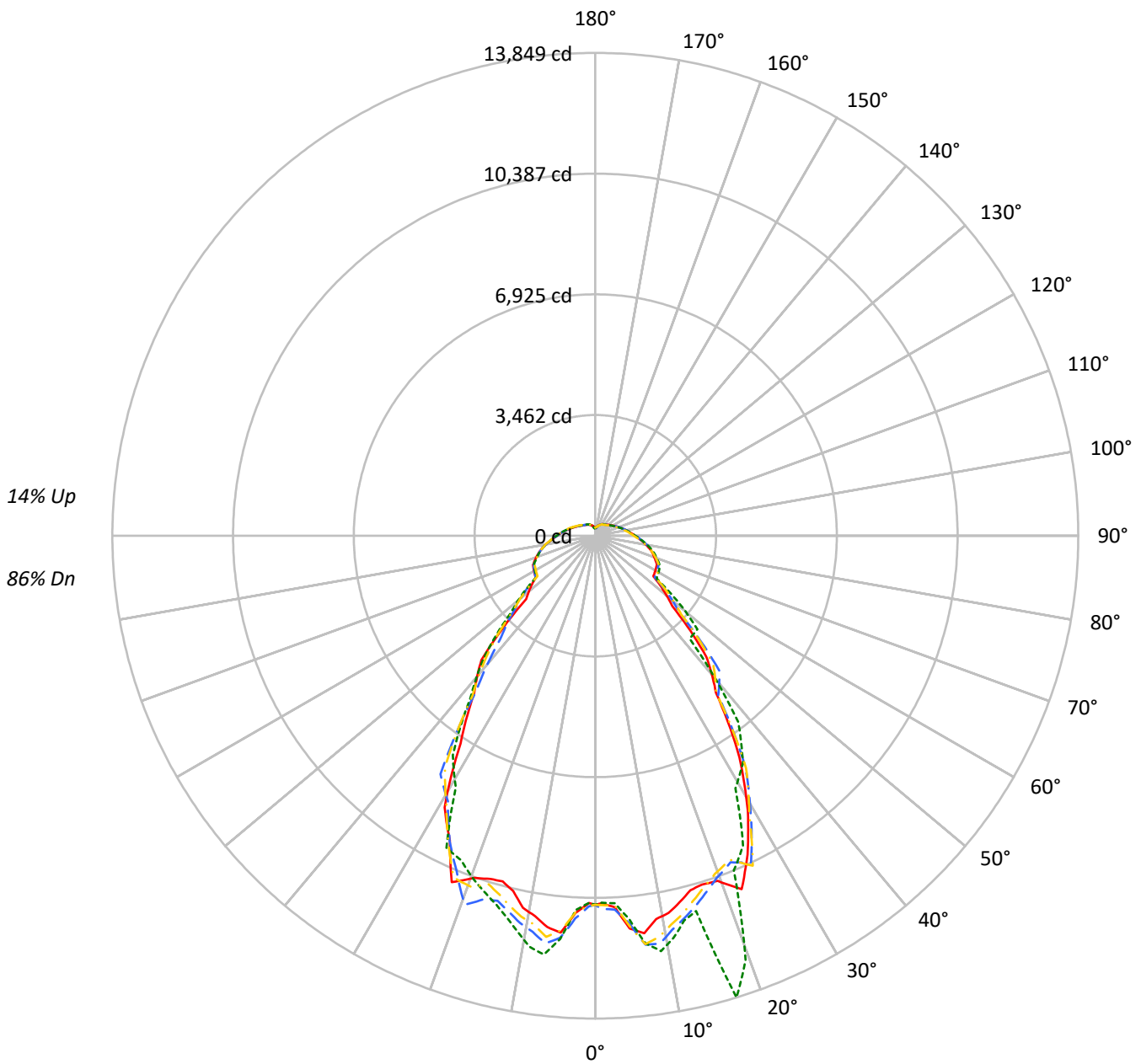
Lumens per Lamp: N/A
Luminaire Lumens: 27034.3 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.13
Luminous Opening: Circular (Dia: 1.29' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 194.27
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: 25 FT

TEST NUMBER: L081701901

CATALOG NUMBER: RHB-24-UNV-L840-CD-U WITH RHB-FRR

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



TEST NUMBER: L081701901

CATALOG NUMBER: RHB-24-UNV-L840-CD-U WITH RHB-FRR

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|---|
| RF | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | 20 | |
| RC | 80 | | | | | 70 | | | | | 50 | | | | | 30 | | | | | 10 | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 116 | 116 | 116 | 116 | 112 | 112 | 112 | 112 | 103 | 103 | 103 | 96 | 96 | 96 | 89 | 89 | 89 | 86 | | | | |
| 1 | 105 | 100 | 96 | 92 | 101 | 97 | 93 | 89 | 90 | 86 | 83 | 83 | 81 | 78 | 77 | 75 | 74 | 71 | | | | |
| 2 | 96 | 88 | 82 | 76 | 92 | 85 | 79 | 74 | 79 | 74 | 70 | 74 | 70 | 66 | 69 | 66 | 63 | 60 | | | | |
| 3 | 89 | 79 | 71 | 65 | 85 | 76 | 69 | 63 | 71 | 65 | 60 | 66 | 62 | 57 | 62 | 58 | 55 | 52 | | | | |
| 4 | 82 | 71 | 62 | 56 | 79 | 68 | 61 | 55 | 64 | 58 | 53 | 60 | 55 | 51 | 56 | 52 | 48 | 46 | | | | |
| 5 | 76 | 64 | 56 | 49 | 73 | 62 | 54 | 48 | 58 | 52 | 47 | 55 | 49 | 45 | 52 | 47 | 43 | 41 | | | | |
| 6 | 71 | 58 | 50 | 44 | 68 | 57 | 49 | 43 | 53 | 47 | 42 | 50 | 45 | 40 | 48 | 43 | 39 | 37 | | | | |
| 7 | 66 | 53 | 45 | 40 | 63 | 52 | 44 | 39 | 49 | 42 | 38 | 47 | 41 | 36 | 44 | 39 | 35 | 33 | | | | |
| 8 | 62 | 49 | 41 | 36 | 59 | 48 | 40 | 35 | 45 | 39 | 34 | 43 | 37 | 33 | 41 | 36 | 32 | 30 | | | | |
| 9 | 58 | 45 | 38 | 33 | 56 | 44 | 37 | 32 | 42 | 36 | 31 | 40 | 34 | 30 | 38 | 33 | 30 | 28 | | | | |
| 10 | 55 | 42 | 35 | 30 | 53 | 41 | 34 | 30 | 39 | 33 | 29 | 37 | 32 | 28 | 36 | 31 | 27 | 26 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|--------|--------|--------|--------|
| 0° | 87191 | 87191 | 87191 | 87191 |
| 5° | 93485 | 91129 | 94444 | 95982 |
| 10° | 92626 | 99567 | 91652 | 98434 |
| 15° | 89730 | 95033 | 87530 | 93439 |
| 20° | 92724 | 109428 | 91721 | 91058 |
| 25° | 93331 | 90264 | 89625 | 90345 |
| 30° | 82331 | 77550 | 80443 | 76684 |
| 35° | 67795 | 73446 | 65133 | 68248 |
| 40° | 55889 | 57668 | 56658 | 56969 |
| 45° | 44859 | 46413 | 43805 | 46606 |
| 50° | 34239 | 43071 | 31869 | 36990 |
| 55° | 29162 | 30799 | 29981 | 29564 |
| 60° | 32753 | 34491 | 33429 | 32902 |
| 65° | 37922 | 39813 | 38410 | 37728 |
| 70° | 43391 | 45185 | 43379 | 42826 |
| 75° | 52758 | 54413 | 51931 | 51581 |
| 80° | 69979 | 71639 | 68272 | 68177 |
| 85° | 122181 | 123882 | 117834 | 118496 |



TEST NUMBER: L081701901

CATALOG NUMBER: RHB-24-UNV-L840-CD-U WITH RHB-FRR

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1089.7 | 4.0 |
| 10°-20° | 3112.0 | 11.5 |
| 20°-30° | 4524.0 | 16.7 |
| 30°-40° | 4220.5 | 15.6 |
| 40°-50° | 3047.8 | 11.3 |
| 50°-60° | 2201.3 | 8.1 |
| 60°-70° | 1905.7 | 7.0 |
| 70°-80° | 1733.8 | 6.4 |
| 80°-90° | 1409.5 | 5.2 |
| 90°-100° | 1088.4 | 4.0 |
| 100°-110° | 833.5 | 3.1 |
| 110°-120° | 626.5 | 2.3 |
| 120°-130° | 465.6 | 1.7 |
| 130°-140° | 344.7 | 1.3 |
| 140°-150° | 248.7 | 0.9 |
| 150°-160° | 162.1 | 0.6 |
| 160°-170° | 82.3 | 0.3 |
| 170°-180° | 22.6 | 0.1 |
| 0°-30° | 8725.6 | 32.3 |
| 0°-40° | 12946.2 | 47.9 |
| 0°-60° | 18195.3 | 67.3 |
| 0°-90° | 23244.2 | 86.0 |
| 90°-120° | 2548.5 | 9.4 |
| 90°-150° | 3607.5 | 13.3 |
| 90°-180° | 3875.0 | 14.3 |
| 0°-180° | 27034.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|-------|-------|-------|-------|-------|------|
| 0° | 10587 | 10587 | 10587 | 10587 | 10587 | |
| 5° | 11308 | 11023 | 11424 | 11610 | 11308 | ### |
| 15° | 10524 | 11146 | 10266 | 10959 | 10524 | 3011 |
| 25° | 10271 | 9933 | 9863 | 9942 | 10271 | 4574 |
| 35° | 6743 | 7305 | 6478 | 6788 | 6743 | 4209 |
| 45° | 3852 | 3985 | 3761 | 4002 | 3852 | 2912 |
| 55° | 2031 | 2145 | 2088 | 2059 | 2031 | 2091 |
| 65° | 1946 | 2043 | 1971 | 1936 | 1946 | 1881 |
| 75° | 1658 | 1710 | 1632 | 1621 | 1658 | 1734 |
| 85° | 1293 | 1311 | 1247 | 1254 | 1293 | 1099 |
| 90° | 1138 | 1141 | 1093 | 1109 | 1138 | 628 |
| 95° | 1014 | 1011 | 968 | 986 | 1014 | 808 |
| 105° | 802 | 793 | 763 | 780 | 802 | 852 |
| 115° | 643 | 633 | 611 | 627 | 643 | 641 |
| 125° | 527 | 519 | 502 | 516 | 527 | 476 |
| 135° | 452 | 445 | 432 | 443 | 452 | 352 |
| 145° | 402 | 397 | 387 | 392 | 402 | 253 |
| 155° | 355 | 350 | 343 | 349 | 355 | 165 |
| 165° | 306 | 292 | 295 | 286 | 306 | 86 |
| 175° | 217 | 230 | 251 | 210 | 217 | 23 |
| 180° | 236 | 236 | 236 | 236 | 236 | |



TEST NUMBER: L081701901

CATALOG NUMBER: RHB-24-UNV-L840-CD-U WITH RHB-FRR

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 |
| 1° | 10540 | 10669 | 10718 | 10684 | 10722 | 10684 | 10579 | 10619 | 10630 | 10702 | 10692 |
| 3° | 10671 | 10786 | 10843 | 10797 | 10785 | 10737 | 10618 | 10675 | 10698 | 10738 | 10758 |
| 5° | 11308 | 11452 | 11455 | 11395 | 11354 | 11271 | 11177 | 11186 | 11166 | 11158 | 11164 |
| 7° | 11487 | 11579 | 11621 | 11619 | 11782 | 11849 | 11833 | 11853 | 11831 | 11820 | 11680 |
| 9° | 11129 | 11218 | 11209 | 11276 | 11514 | 11825 | 12047 | 12125 | 11981 | 11843 | 11572 |
| 11° | 11023 | 11120 | 11101 | 11218 | 11389 | 11567 | 11763 | 11880 | 11625 | 11518 | 11358 |
| 13° | 10780 | 10816 | 10852 | 11002 | 11177 | 11337 | 11463 | 11483 | 11354 | 11275 | 11166 |
| 15° | 10524 | 10527 | 10605 | 10763 | 10932 | 11093 | 11175 | 11177 | 11082 | 11019 | 10864 |
| 17° | 10461 | 10469 | 10476 | 10533 | 10665 | 10837 | 10941 | 10910 | 10800 | 10742 | 10618 |
| 19.5° | 10502 | 10517 | 10393 | 10314 | 10333 | 10500 | 10683 | 10625 | 10480 | 10422 | 10401 |
| 22.5° | 10969 | 10741 | 10396 | 10201 | 10065 | 10162 | 10291 | 10248 | 10122 | 10138 | 10210 |
| 25.5° | 10131 | 10248 | 10478 | 10640 | 10422 | 10081 | 9948 | 9926 | 10079 | 10381 | 10633 |
| 29° | 9014 | 9072 | 9169 | 9263 | 9092 | 8927 | 8993 | 9034 | 9069 | 9201 | 9155 |
| 33° | 7588 | 7642 | 7967 | 7928 | 7752 | 7682 | 7710 | 7689 | 7748 | 7893 | 8005 |
| 37.5° | 5687 | 5700 | 5810 | 5821 | 5782 | 6160 | 6491 | 6449 | 6057 | 5783 | 5845 |
| 42.5° | 4710 | 4777 | 5154 | 5462 | 4976 | 4723 | 4710 | 4722 | 4778 | 5268 | 5413 |
| 47.5° | 2993 | 2888 | 3153 | 3243 | 3221 | 3215 | 3213 | 3228 | 3250 | 3277 | 3398 |
| 55° | 2031 | 2036 | 2041 | 2041 | 2043 | 2047 | 2055 | 2063 | 2068 | 2079 | 2094 |
| 65° | 1946 | 1951 | 1955 | 1961 | 1965 | 1969 | 1974 | 1982 | 1989 | 1997 | 2006 |
| 75° | 1658 | 1663 | 1667 | 1671 | 1675 | 1679 | 1683 | 1689 | 1693 | 1698 | 1702 |
| 85° | 1293 | 1299 | 1301 | 1304 | 1307 | 1308 | 1311 | 1313 | 1316 | 1317 | 1320 |
| 90° | 1138 | 1141 | 1142 | 1144 | 1145 | 1146 | 1148 | 1149 | 1150 | 1152 | 1153 |
| 95° | 1014 | 1016 | 1017 | 1018 | 1019 | 1020 | 1021 | 1022 | 1022 | 1023 | 1023 |
| 100° | 901 | 902 | 904 | 904 | 905 | 905 | 906 | 906 | 906 | 907 | 907 |
| 105° | 802 | 803 | 803 | 804 | 804 | 804 | 804 | 804 | 805 | 805 | 805 |
| 110° | 716 | 717 | 717 | 717 | 717 | 717 | 717 | 718 | 717 | 717 | 717 |
| 115° | 643 | 643 | 643 | 643 | 643 | 643 | 643 | 643 | 643 | 642 | 642 |
| 120° | 580 | 580 | 580 | 580 | 579 | 579 | 579 | 579 | 579 | 579 | 578 |
| 125° | 527 | 527 | 527 | 527 | 527 | 527 | 527 | 526 | 526 | 526 | 525 |
| 130° | 485 | 485 | 485 | 485 | 485 | 485 | 484 | 484 | 484 | 484 | 483 |
| 135° | 452 | 452 | 452 | 451 | 451 | 451 | 451 | 451 | 451 | 450 | 450 |
| 140° | 425 | 424 | 424 | 424 | 424 | 424 | 424 | 424 | 423 | 423 | 423 |
| 145° | 402 | 402 | 402 | 402 | 402 | 402 | 401 | 401 | 401 | 401 | 400 |
| 150° | 381 | 381 | 381 | 381 | 381 | 381 | 380 | 380 | 380 | 380 | 380 |
| 155° | 355 | 355 | 355 | 355 | 355 | 355 | 355 | 354 | 354 | 354 | 354 |
| 160° | 328 | 328 | 328 | 328 | 328 | 328 | 328 | 328 | 328 | 328 | 328 |
| 165° | 306 | 305 | 305 | 305 | 305 | 305 | 305 | 303 | 297 | 291 | 290 |
| 170° | 264 | 265 | 266 | 265 | 264 | 263 | 264 | 265 | 266 | 266 | 266 |
| 175° | 217 | 217 | 218 | 216 | 215 | 214 | 215 | 216 | 217 | 219 | 220 |
| 180° | 236 | 236 | 236 | 236 | 236 | 236 | 236 | 236 | 236 | 236 | 236 |



TEST NUMBER: L081701901

CATALOG NUMBER: RHB-24-UNV-L840-CD-U WITH RHB-FRR

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 |
| 1° | 10615 | 10559 | 10571 | 10681 | 10700 | 10723 | 10649 | 10527 | 10570 | 10660 | 10598 |
| 3° | 10675 | 10615 | 10642 | 10703 | 10719 | 10743 | 10661 | 10554 | 10587 | 10679 | 10641 |
| 5° | 11119 | 11111 | 11136 | 11150 | 11162 | 11155 | 11127 | 11023 | 11029 | 11148 | 11150 |
| 7° | 11504 | 11528 | 11551 | 11587 | 11735 | 11848 | 11864 | 11773 | 11757 | 11802 | 11627 |
| 9° | 11237 | 11191 | 11210 | 11407 | 11677 | 11960 | 12127 | 12061 | 11968 | 11796 | 11493 |
| 11° | 11105 | 11076 | 11081 | 11255 | 11455 | 11630 | 11793 | 11751 | 11661 | 11587 | 11343 |
| 13° | 10925 | 10872 | 10868 | 11035 | 11291 | 11432 | 11495 | 11327 | 11399 | 11380 | 11229 |
| 15° | 10579 | 10447 | 10463 | 10720 | 11016 | 11183 | 11244 | 11146 | 11139 | 11134 | 10956 |
| 17° | 10418 | 10298 | 10315 | 10516 | 10753 | 11212 | 13303 | 13849 | 13079 | 11020 | 10753 |
| 19.5° | 10318 | 10310 | 10322 | 10426 | 10741 | 11596 | 12634 | 12906 | 12509 | 11600 | 10743 |
| 22.5° | 10243 | 10463 | 10733 | 10988 | 11050 | 10823 | 10559 | 10384 | 10450 | 10659 | 10850 |
| 25.5° | 10593 | 10490 | 10396 | 10381 | 10276 | 10083 | 9968 | 9843 | 9873 | 10031 | 10165 |
| 29° | 8833 | 8711 | 8767 | 8876 | 8878 | 8621 | 8427 | 8284 | 8335 | 8481 | 8695 |
| 33° | 7905 | 7735 | 7817 | 8041 | 8001 | 7892 | 7844 | 7767 | 7767 | 7813 | 7864 |
| 37.5° | 5843 | 5754 | 5782 | 5904 | 5900 | 6036 | 6540 | 6728 | 6550 | 6066 | 5840 |
| 42.5° | 5077 | 4763 | 4726 | 4793 | 4702 | 4167 | 4015 | 4000 | 4014 | 4049 | 4458 |
| 47.5° | 3267 | 3142 | 3404 | 3882 | 4011 | 4007 | 3971 | 3970 | 3963 | 3965 | 3994 |
| 55° | 2100 | 2109 | 2117 | 2127 | 2130 | 2133 | 2140 | 2145 | 2148 | 2145 | 2146 |
| 65° | 2013 | 2020 | 2025 | 2031 | 2035 | 2037 | 2041 | 2043 | 2044 | 2044 | 2044 |
| 75° | 1708 | 1710 | 1712 | 1713 | 1714 | 1713 | 1712 | 1710 | 1708 | 1705 | 1701 |
| 85° | 1321 | 1321 | 1323 | 1321 | 1320 | 1317 | 1313 | 1311 | 1307 | 1303 | 1297 |
| 90° | 1153 | 1153 | 1154 | 1154 | 1150 | 1147 | 1145 | 1141 | 1138 | 1134 | 1130 |
| 95° | 1024 | 1024 | 1031 | 1024 | 1020 | 1017 | 1014 | 1011 | 1007 | 1003 | 999 |
| 100° | 907 | 908 | 915 | 909 | 903 | 900 | 897 | 895 | 892 | 888 | 884 |
| 105° | 804 | 804 | 803 | 802 | 800 | 798 | 795 | 793 | 790 | 788 | 785 |
| 110° | 717 | 716 | 715 | 714 | 712 | 711 | 709 | 707 | 704 | 702 | 699 |
| 115° | 641 | 641 | 640 | 639 | 638 | 636 | 635 | 633 | 631 | 629 | 627 |
| 120° | 578 | 577 | 576 | 575 | 574 | 573 | 572 | 571 | 569 | 567 | 565 |
| 125° | 525 | 524 | 523 | 523 | 522 | 521 | 520 | 519 | 517 | 515 | 514 |
| 130° | 483 | 482 | 481 | 481 | 480 | 479 | 478 | 477 | 476 | 475 | 473 |
| 135° | 449 | 448 | 448 | 447 | 447 | 446 | 445 | 445 | 444 | 442 | 441 |
| 140° | 422 | 422 | 421 | 421 | 419 | 420 | 419 | 418 | 417 | 416 | 413 |
| 145° | 400 | 400 | 399 | 399 | 397 | 397 | 397 | 397 | 396 | 393 | 391 |
| 150° | 379 | 379 | 379 | 378 | 378 | 377 | 376 | 376 | 376 | 375 | 374 |
| 155° | 354 | 354 | 353 | 353 | 352 | 352 | 351 | 350 | 350 | 349 | 349 |
| 160° | 328 | 328 | 327 | 327 | 327 | 326 | 326 | 325 | 325 | 325 | 324 |
| 165° | 292 | 292 | 292 | 292 | 291 | 291 | 291 | 292 | 292 | 291 | 288 |
| 170° | 266 | 265 | 265 | 266 | 268 | 268 | 267 | 267 | 266 | 265 | 264 |
| 175° | 221 | 222 | 223 | 225 | 226 | 228 | 229 | 230 | 230 | 231 | 232 |
| 180° | 236 | 236 | 236 | 236 | 236 | 236 | 236 | 236 | 236 | 236 | 236 |



TEST NUMBER: L081701901

CATALOG NUMBER: RHB-24-UNV-L840-CD-U WITH RHB-FRR

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 |
| 1° | 10582 | 10603 | 10671 | 10615 | 10552 | 10597 | 10621 | 10660 | 10664 | 10611 | 10610 |
| 3° | 10607 | 10634 | 10685 | 10640 | 10589 | 10615 | 10632 | 10700 | 10757 | 10765 | 10813 |
| 5° | 11151 | 11201 | 11242 | 11195 | 11119 | 11233 | 11314 | 11404 | 11451 | 11372 | 11346 |
| 7° | 11501 | 11547 | 11603 | 11559 | 11685 | 11802 | 11845 | 11960 | 12015 | 11917 | 11709 |
| 9° | 11205 | 11138 | 11174 | 11205 | 11417 | 11648 | 11878 | 12066 | 12031 | 11722 | 11456 |
| 11° | 11113 | 11034 | 11043 | 10998 | 11181 | 11369 | 11481 | 11761 | 11724 | 11528 | 11294 |
| 13° | 10891 | 10742 | 10765 | 10815 | 10977 | 11127 | 11166 | 11349 | 11388 | 11315 | 11094 |
| 15° | 10638 | 10377 | 10392 | 10550 | 10692 | 10840 | 10867 | 11039 | 11119 | 10985 | 10773 |
| 17° | 10485 | 10295 | 10286 | 10420 | 10473 | 10572 | 10575 | 10762 | 10878 | 10745 | 10513 |
| 19.5° | 10314 | 10334 | 10388 | 10293 | 10263 | 10284 | 10266 | 10432 | 10563 | 10471 | 10210 |
| 22.5° | 10921 | 10835 | 10656 | 10383 | 10139 | 10056 | 9974 | 10083 | 10173 | 10104 | 9956 |
| 25.5° | 10158 | 10190 | 10364 | 10428 | 10469 | 10486 | 10218 | 9936 | 9902 | 10101 | 10306 |
| 29° | 8792 | 8819 | 9013 | 9125 | 9139 | 9100 | 8793 | 8417 | 8267 | 8298 | 8411 |
| 33° | 7924 | 7811 | 7662 | 7823 | 8020 | 7934 | 7802 | 7658 | 7609 | 7665 | 7817 |
| 37.5° | 5874 | 5787 | 5790 | 5859 | 5800 | 5695 | 5668 | 5923 | 6361 | 6077 | 5705 |
| 42.5° | 4870 | 4846 | 4837 | 4860 | 5016 | 5003 | 4723 | 4683 | 4644 | 4633 | 4673 |
| 47.5° | 3885 | 3320 | 2998 | 2826 | 3021 | 3340 | 3290 | 3227 | 3216 | 3223 | 3231 |
| 55° | 2150 | 2152 | 2148 | 2142 | 2137 | 2129 | 2122 | 2117 | 2111 | 2106 | 2103 |
| 65° | 2041 | 2039 | 2033 | 2028 | 2021 | 2016 | 2008 | 2002 | 1997 | 1991 | 1986 |
| 75° | 1697 | 1691 | 1685 | 1679 | 1673 | 1665 | 1658 | 1652 | 1648 | 1644 | 1640 |
| 85° | 1293 | 1289 | 1282 | 1277 | 1272 | 1266 | 1261 | 1257 | 1254 | 1251 | 1249 |
| 90° | 1126 | 1121 | 1115 | 1111 | 1107 | 1102 | 1099 | 1096 | 1094 | 1093 | 1092 |
| 95° | 995 | 991 | 987 | 983 | 979 | 976 | 972 | 970 | 968 | 967 | 967 |
| 100° | 881 | 877 | 874 | 870 | 867 | 864 | 861 | 859 | 858 | 857 | 858 |
| 105° | 782 | 778 | 775 | 772 | 770 | 767 | 765 | 763 | 762 | 762 | 761 |
| 110° | 696 | 694 | 691 | 688 | 686 | 684 | 682 | 681 | 680 | 680 | 679 |
| 115° | 624 | 622 | 620 | 618 | 616 | 614 | 613 | 612 | 611 | 610 | 610 |
| 120° | 563 | 561 | 559 | 557 | 555 | 554 | 553 | 552 | 551 | 551 | 551 |
| 125° | 512 | 510 | 509 | 507 | 506 | 505 | 504 | 503 | 502 | 502 | 502 |
| 130° | 472 | 470 | 469 | 468 | 467 | 466 | 465 | 464 | 464 | 463 | 463 |
| 135° | 440 | 439 | 437 | 437 | 436 | 435 | 434 | 434 | 433 | 433 | 432 |
| 140° | 414 | 413 | 412 | 412 | 411 | 410 | 410 | 409 | 408 | 408 | 408 |
| 145° | 393 | 393 | 392 | 391 | 390 | 390 | 389 | 388 | 388 | 388 | 387 |
| 150° | 373 | 373 | 372 | 372 | 371 | 371 | 370 | 370 | 369 | 369 | 369 |
| 155° | 348 | 348 | 347 | 348 | 347 | 347 | 346 | 346 | 345 | 345 | 345 |
| 160° | 324 | 324 | 323 | 323 | 322 | 322 | 321 | 321 | 321 | 321 | 320 |
| 165° | 286 | 286 | 286 | 286 | 287 | 287 | 287 | 288 | 291 | 295 | 298 |
| 170° | 263 | 264 | 264 | 264 | 264 | 263 | 262 | 261 | 261 | 260 | 259 |
| 175° | 233 | 235 | 237 | 238 | 240 | 241 | 243 | 244 | 246 | 247 | 248 |
| 180° | 236 | 236 | 236 | 236 | 236 | 236 | 236 | 236 | 236 | 236 | 236 |



TEST NUMBER: L081701901

CATALOG NUMBER: RHB-24-UNV-L840-CD-U WITH RHB-FRR

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 215° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 |
| 1° | 10594 | 10564 | 10558 | 10536 | 10580 | 10551 | 10628 | 10642 | 10640 | 10598 | 10644 |
| 3° | 10821 | 10839 | 10852 | 10829 | 10889 | 10821 | 10837 | 10805 | 10801 | 10782 | 10848 |
| 5° | 11374 | 11425 | 11436 | 11424 | 11431 | 11456 | 11525 | 11586 | 11658 | 11626 | 11599 |
| 7° | 11512 | 11386 | 11351 | 11308 | 11420 | 11592 | 11820 | 11981 | 12094 | 12049 | 11993 |
| 9° | 11255 | 11088 | 11072 | 11047 | 11152 | 11314 | 11517 | 11726 | 12008 | 11989 | 11840 |
| 11° | 11105 | 10952 | 10910 | 10872 | 10980 | 11154 | 11317 | 11470 | 11618 | 11622 | 11500 |
| 13° | 10910 | 10672 | 10512 | 10461 | 10680 | 10916 | 11061 | 11201 | 11331 | 11271 | 11230 |
| 15° | 10624 | 10476 | 10318 | 10266 | 10482 | 10654 | 10777 | 11092 | 12927 | 13578 | 13148 |
| 17° | 10392 | 10349 | 10302 | 10293 | 10428 | 10488 | 10720 | 11483 | 12677 | 13304 | 12937 |
| 19.5° | 10126 | 10175 | 10305 | 10407 | 10508 | 10798 | 11187 | 11241 | 10964 | 10794 | 10879 |
| 22.5° | 10031 | 10306 | 10543 | 10757 | 10782 | 10576 | 10319 | 10158 | 9996 | 9932 | 9980 |
| 25.5° | 10357 | 10155 | 9832 | 9684 | 9703 | 9793 | 9838 | 9866 | 9739 | 9687 | 9675 |
| 29° | 8660 | 8998 | 8982 | 8913 | 9042 | 9081 | 8824 | 8580 | 8370 | 8358 | 8401 |
| 33° | 7932 | 8012 | 7514 | 7097 | 7426 | 7971 | 8168 | 8168 | 8145 | 8180 | 8184 |
| 37.5° | 5703 | 5782 | 5777 | 5705 | 5731 | 5790 | 5751 | 5427 | 5194 | 5329 | 5162 |
| 42.5° | 4657 | 4856 | 4817 | 4835 | 4829 | 4724 | 4190 | 4031 | 4023 | 4019 | 4011 |
| 47.5° | 3260 | 3003 | 2670 | 2687 | 2753 | 2894 | 3381 | 3560 | 3552 | 3524 | 3481 |
| 55° | 2099 | 2095 | 2091 | 2088 | 2088 | 2088 | 2086 | 2083 | 2079 | 2082 | 2083 |
| 65° | 1982 | 1979 | 1975 | 1971 | 1967 | 1965 | 1961 | 1958 | 1955 | 1954 | 1952 |
| 75° | 1638 | 1636 | 1635 | 1632 | 1631 | 1628 | 1627 | 1624 | 1623 | 1621 | 1621 |
| 85° | 1249 | 1249 | 1247 | 1247 | 1246 | 1246 | 1245 | 1245 | 1243 | 1245 | 1243 |
| 90° | 1092 | 1091 | 1092 | 1093 | 1093 | 1093 | 1094 | 1094 | 1095 | 1095 | 1095 |
| 95° | 967 | 967 | 968 | 968 | 969 | 970 | 970 | 971 | 971 | 972 | 972 |
| 100° | 857 | 857 | 858 | 858 | 859 | 859 | 860 | 861 | 861 | 862 | 863 |
| 105° | 761 | 762 | 762 | 763 | 763 | 764 | 765 | 766 | 766 | 767 | 767 |
| 110° | 679 | 679 | 680 | 680 | 681 | 682 | 682 | 683 | 684 | 684 | 685 |
| 115° | 610 | 610 | 610 | 611 | 611 | 612 | 613 | 613 | 614 | 615 | 615 |
| 120° | 550 | 551 | 551 | 551 | 552 | 552 | 553 | 554 | 555 | 555 | 556 |
| 125° | 501 | 501 | 502 | 502 | 502 | 503 | 504 | 504 | 505 | 506 | 506 |
| 130° | 462 | 462 | 462 | 462 | 463 | 464 | 464 | 465 | 466 | 466 | 467 |
| 135° | 432 | 432 | 432 | 432 | 432 | 433 | 433 | 434 | 434 | 435 | 435 |
| 140° | 407 | 407 | 407 | 407 | 408 | 408 | 408 | 409 | 409 | 410 | 411 |
| 145° | 387 | 387 | 387 | 387 | 387 | 387 | 387 | 388 | 388 | 389 | 389 |
| 150° | 368 | 368 | 368 | 368 | 367 | 367 | 368 | 368 | 368 | 369 | 369 |
| 155° | 344 | 344 | 344 | 343 | 343 | 343 | 343 | 343 | 344 | 344 | 344 |
| 160° | 320 | 320 | 319 | 319 | 319 | 319 | 319 | 319 | 319 | 319 | 319 |
| 165° | 298 | 297 | 296 | 295 | 293 | 292 | 292 | 291 | 289 | 286 | 280 |
| 170° | 259 | 258 | 258 | 256 | 254 | 252 | 250 | 246 | 242 | 240 | 237 |
| 175° | 250 | 251 | 251 | 251 | 249 | 245 | 242 | 238 | 234 | 232 | 231 |
| 180° | 236 | 236 | 236 | 236 | 236 | 236 | 236 | 236 | 236 | 236 | 236 |



TEST NUMBER: L081701901

CATALOG NUMBER: RHB-24-UNV-L840-CD-U WITH RHB-FRR

CANDELA DISTRIBUTION (continued):

| | 220° | 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | 270° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 |
| 1° | 10660 | 10636 | 10613 | 10621 | 10672 | 10668 | 10629 | 10597 | 10606 | 10652 | 10531 |
| 3° | 10945 | 10991 | 11002 | 11030 | 11081 | 11090 | 11042 | 10976 | 10933 | 10938 | 10747 |
| 5° | 11625 | 11574 | 11555 | 11599 | 11634 | 11625 | 11621 | 11540 | 11645 | 11746 | 11610 |
| 7° | 11988 | 11781 | 11504 | 11411 | 11385 | 11386 | 11469 | 11641 | 11957 | 12187 | 12100 |
| 9° | 11677 | 11498 | 11284 | 11175 | 11173 | 11185 | 11284 | 11425 | 11653 | 11864 | 11950 |
| 11° | 11459 | 11314 | 11109 | 10992 | 10952 | 10965 | 11104 | 11263 | 11467 | 11598 | 11591 |
| 13° | 11201 | 11059 | 10898 | 10715 | 10575 | 10554 | 10735 | 10968 | 11174 | 11277 | 11242 |
| 15° | 11594 | 10842 | 10676 | 10576 | 10414 | 10396 | 10566 | 10726 | 10874 | 10969 | 10959 |
| 17° | 11746 | 10898 | 10560 | 10488 | 10400 | 10397 | 10471 | 10494 | 10595 | 10665 | 10731 |
| 19.5° | 11177 | 11228 | 10991 | 10706 | 10584 | 10485 | 10309 | 10206 | 10244 | 10313 | 10454 |
| 22.5° | 10140 | 10401 | 10668 | 10882 | 10929 | 10727 | 10377 | 10100 | 9998 | 9994 | 10068 |
| 25.5° | 9752 | 9700 | 9573 | 9480 | 9439 | 9489 | 9656 | 9889 | 10014 | 9936 | 9917 |
| 29° | 8515 | 8710 | 8912 | 9044 | 9028 | 8962 | 8655 | 8419 | 8258 | 8197 | 8251 |
| 33° | 8117 | 8152 | 7775 | 7247 | 6980 | 6910 | 7204 | 7553 | 7568 | 7490 | 7502 |
| 37.5° | 5283 | 5595 | 5825 | 5820 | 5734 | 5756 | 5871 | 5871 | 5758 | 5713 | 5896 |
| 42.5° | 4015 | 4042 | 4381 | 4815 | 4816 | 4829 | 4563 | 4134 | 4228 | 4477 | 4702 |
| 47.5° | 3433 | 3138 | 2746 | 2734 | 2718 | 2717 | 2722 | 2815 | 3169 | 3297 | 3301 |
| 55° | 2083 | 2084 | 2083 | 2082 | 2079 | 2078 | 2076 | 2074 | 2070 | 2065 | 2059 |
| 65° | 1952 | 1952 | 1952 | 1952 | 1951 | 1950 | 1948 | 1944 | 1943 | 1939 | 1936 |
| 75° | 1621 | 1623 | 1623 | 1623 | 1624 | 1624 | 1625 | 1624 | 1623 | 1623 | 1621 |
| 85° | 1243 | 1245 | 1246 | 1247 | 1247 | 1249 | 1250 | 1250 | 1251 | 1253 | 1254 |
| 90° | 1096 | 1097 | 1098 | 1099 | 1101 | 1103 | 1104 | 1104 | 1106 | 1107 | 1109 |
| 95° | 973 | 974 | 975 | 977 | 979 | 980 | 981 | 982 | 983 | 985 | 986 |
| 100° | 863 | 864 | 865 | 866 | 868 | 869 | 870 | 872 | 873 | 875 | 877 |
| 105° | 768 | 769 | 770 | 771 | 772 | 774 | 775 | 776 | 777 | 779 | 780 |
| 110° | 686 | 687 | 687 | 688 | 689 | 690 | 692 | 693 | 695 | 696 | 697 |
| 115° | 616 | 617 | 617 | 618 | 619 | 620 | 622 | 623 | 624 | 626 | 627 |
| 120° | 557 | 557 | 558 | 559 | 560 | 561 | 562 | 563 | 564 | 565 | 566 |
| 125° | 507 | 508 | 508 | 509 | 510 | 511 | 511 | 512 | 514 | 515 | 516 |
| 130° | 467 | 468 | 469 | 469 | 470 | 471 | 472 | 473 | 473 | 474 | 476 |
| 135° | 436 | 437 | 437 | 438 | 439 | 439 | 440 | 441 | 442 | 443 | 443 |
| 140° | 411 | 412 | 412 | 412 | 413 | 414 | 414 | 415 | 416 | 417 | 417 |
| 145° | 390 | 390 | 391 | 391 | 392 | 392 | 391 | 391 | 391 | 391 | 392 |
| 150° | 370 | 370 | 370 | 369 | 371 | 371 | 372 | 372 | 373 | 374 | 374 |
| 155° | 345 | 345 | 346 | 346 | 346 | 347 | 347 | 348 | 348 | 348 | 349 |
| 160° | 317 | 317 | 317 | 317 | 317 | 317 | 317 | 317 | 317 | 317 | 317 |
| 165° | 276 | 269 | 264 | 264 | 264 | 264 | 269 | 276 | 281 | 284 | 286 |
| 170° | 236 | 234 | 233 | 231 | 230 | 230 | 230 | 231 | 233 | 235 | 236 |
| 175° | 230 | 229 | 227 | 225 | 222 | 219 | 217 | 214 | 212 | 211 | 210 |
| 180° | 236 | 236 | 236 | 236 | 236 | 236 | 236 | 236 | 236 | 236 | 236 |



TEST NUMBER: L081701901

CATALOG NUMBER: RHB-24-UNV-L840-CD-U WITH RHB-FRR

CANDELA DISTRIBUTION (continued):

| | 275° | 280° | 285° | 290° | 295° | 300° | 305° | 310° | 315° | 320° | 325° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 |
| 1° | 10508 | 10654 | 10659 | 10652 | 10652 | 10702 | 10712 | 10591 | 10611 | 10517 | 10559 |
| 3° | 10730 | 10824 | 10840 | 10867 | 10894 | 10960 | 10930 | 10816 | 10817 | 10673 | 10673 |
| 5° | 11645 | 11713 | 11662 | 11580 | 11495 | 11574 | 11512 | 11384 | 11366 | 11269 | 11334 |
| 7° | 12160 | 12213 | 12083 | 11903 | 11648 | 11553 | 11497 | 11452 | 11591 | 11683 | 11843 |
| 9° | 12081 | 11964 | 11762 | 11544 | 11321 | 11249 | 11170 | 11117 | 11283 | 11381 | 11664 |
| 11° | 11642 | 11664 | 11530 | 11345 | 11148 | 11077 | 11000 | 10967 | 11129 | 11202 | 11395 |
| 13° | 11302 | 11339 | 11210 | 11019 | 10801 | 10687 | 10584 | 10677 | 10893 | 10996 | 11177 |
| 15° | 11015 | 11027 | 10916 | 10731 | 10519 | 10420 | 10325 | 10462 | 10649 | 10749 | 11318 |
| 17° | 10766 | 10706 | 10625 | 10498 | 10414 | 10361 | 10271 | 10376 | 10454 | 10755 | 11903 |
| 19.5° | 10492 | 10354 | 10255 | 10252 | 10319 | 10414 | 10379 | 10427 | 10681 | 11203 | 11473 |
| 22.5° | 10087 | 10027 | 10005 | 10134 | 10392 | 10698 | 10893 | 10903 | 10615 | 10303 | 10171 |
| 25.5° | 9949 | 9995 | 10131 | 10209 | 10053 | 9879 | 9726 | 9735 | 9783 | 9892 | 9881 |
| 29° | 8234 | 8176 | 8366 | 8729 | 9036 | 9127 | 9071 | 9003 | 8807 | 8571 | 8347 |
| 33° | 7437 | 7447 | 7561 | 7675 | 7420 | 7171 | 7200 | 7510 | 7909 | 8025 | 7927 |
| 37.5° | 5852 | 5673 | 5699 | 5766 | 5808 | 5797 | 5810 | 5786 | 5779 | 5791 | 5642 |
| 42.5° | 4688 | 4529 | 4303 | 4342 | 4859 | 4941 | 4907 | 4875 | 4541 | 4021 | 3988 |
| 47.5° | 3297 | 3297 | 3194 | 2845 | 2670 | 2652 | 2655 | 2749 | 3201 | 3659 | 3731 |
| 55° | 2057 | 2053 | 2051 | 2047 | 2041 | 2035 | 2031 | 2029 | 2024 | 2024 | 2020 |
| 65° | 1932 | 1932 | 1928 | 1927 | 1926 | 1924 | 1923 | 1922 | 1920 | 1920 | 1919 |
| 75° | 1621 | 1621 | 1623 | 1623 | 1624 | 1624 | 1625 | 1625 | 1625 | 1625 | 1627 |
| 85° | 1254 | 1258 | 1259 | 1261 | 1262 | 1264 | 1265 | 1266 | 1266 | 1268 | 1270 |
| 90° | 1110 | 1112 | 1114 | 1114 | 1116 | 1118 | 1118 | 1119 | 1120 | 1121 | 1121 |
| 95° | 988 | 989 | 991 | 993 | 994 | 995 | 996 | 997 | 998 | 999 | 1001 |
| 100° | 878 | 880 | 881 | 883 | 885 | 886 | 887 | 888 | 889 | 890 | 891 |
| 105° | 782 | 784 | 785 | 787 | 788 | 789 | 790 | 791 | 792 | 793 | 794 |
| 110° | 699 | 700 | 702 | 703 | 705 | 706 | 707 | 708 | 709 | 709 | 710 |
| 115° | 628 | 630 | 631 | 632 | 634 | 634 | 635 | 636 | 637 | 637 | 638 |
| 120° | 567 | 569 | 570 | 571 | 572 | 573 | 573 | 574 | 575 | 576 | 577 |
| 125° | 517 | 518 | 519 | 520 | 521 | 522 | 522 | 523 | 524 | 525 | 525 |
| 130° | 477 | 478 | 478 | 479 | 480 | 481 | 481 | 482 | 483 | 483 | 484 |
| 135° | 444 | 445 | 446 | 447 | 447 | 448 | 449 | 449 | 450 | 450 | 451 |
| 140° | 418 | 419 | 419 | 420 | 421 | 421 | 422 | 423 | 423 | 424 | 424 |
| 145° | 391 | 392 | 393 | 395 | 399 | 399 | 400 | 400 | 401 | 401 | 402 |
| 150° | 375 | 375 | 376 | 377 | 377 | 378 | 379 | 379 | 379 | 380 | 380 |
| 155° | 349 | 350 | 350 | 350 | 351 | 351 | 352 | 352 | 352 | 353 | 354 |
| 160° | 318 | 318 | 318 | 318 | 318 | 318 | 318 | 318 | 318 | 318 | 322 |
| 165° | 286 | 285 | 284 | 281 | 279 | 275 | 267 | 266 | 272 | 277 | 284 |
| 170° | 237 | 238 | 238 | 238 | 236 | 232 | 229 | 226 | 227 | 229 | 234 |
| 175° | 210 | 209 | 208 | 207 | 207 | 206 | 207 | 208 | 210 | 211 | 213 |
| 180° | 236 | 236 | 236 | 236 | 236 | 236 | 236 | 236 | 236 | 236 | 236 |



TEST NUMBER: L081701901

CATALOG NUMBER: RHB-24-UNV-L840-CD-U WITH RHB-FRR

CANDELA DISTRIBUTION (continued):

| | 330° | 335° | 340° | 345° | 350° | 355° | 360° |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 | 10587 |
| 1° | 10599 | 10587 | 10640 | 10611 | 10589 | 10574 | 10540 |
| 3° | 10657 | 10628 | 10707 | 10675 | 10679 | 10696 | 10671 |
| 5° | 11370 | 11358 | 11447 | 11351 | 11272 | 11310 | 11308 |
| 7° | 11887 | 11900 | 11989 | 11845 | 11678 | 11529 | 11487 |
| 9° | 11880 | 11958 | 12004 | 11699 | 11400 | 11173 | 11129 |
| 11° | 11552 | 11674 | 11669 | 11439 | 11222 | 11053 | 11023 |
| 13° | 11256 | 11338 | 11409 | 11183 | 11015 | 10837 | 10780 |
| 15° | 12536 | 12818 | 11945 | 10998 | 10772 | 10601 | 10524 |
| 17° | 13537 | 14043 | 12899 | 11085 | 10551 | 10439 | 10461 |
| 19.5° | 11376 | 11378 | 11530 | 11407 | 10950 | 10510 | 10502 |
| 22.5° | 10056 | 10085 | 10252 | 10306 | 10512 | 10793 | 10969 |
| 25.5° | 9748 | 9768 | 9975 | 10068 | 10103 | 10068 | 10131 |
| 29° | 8177 | 8208 | 8450 | 8741 | 8990 | 8995 | 9014 |
| 33° | 7885 | 7913 | 7944 | 7985 | 8072 | 8006 | 7588 |
| 37.5° | 6018 | 6280 | 5913 | 5770 | 5824 | 5791 | 5687 |
| 42.5° | 3980 | 3963 | 3968 | 4114 | 4673 | 4758 | 4710 |
| 47.5° | 3778 | 3819 | 3843 | 3856 | 3839 | 3353 | 2993 |
| 55° | 2017 | 2020 | 2020 | 2021 | 2025 | 2028 | 2031 |
| 65° | 1922 | 1922 | 1926 | 1928 | 1935 | 1940 | 1946 |
| 75° | 1630 | 1632 | 1638 | 1642 | 1647 | 1652 | 1658 |
| 85° | 1272 | 1274 | 1278 | 1282 | 1286 | 1290 | 1293 |
| 90° | 1123 | 1125 | 1128 | 1130 | 1133 | 1136 | 1138 |
| 95° | 1002 | 1007 | 1012 | 1008 | 1010 | 1012 | 1014 |
| 100° | 892 | 894 | 895 | 897 | 898 | 900 | 901 |
| 105° | 795 | 796 | 797 | 799 | 800 | 801 | 802 |
| 110° | 711 | 712 | 713 | 714 | 715 | 716 | 716 |
| 115° | 639 | 640 | 641 | 641 | 642 | 642 | 643 |
| 120° | 577 | 578 | 579 | 579 | 579 | 580 | 580 |
| 125° | 526 | 526 | 527 | 527 | 527 | 527 | 527 |
| 130° | 484 | 485 | 485 | 485 | 485 | 485 | 485 |
| 135° | 451 | 452 | 452 | 452 | 452 | 452 | 452 |
| 140° | 425 | 425 | 425 | 425 | 425 | 425 | 425 |
| 145° | 402 | 402 | 402 | 402 | 402 | 402 | 402 |
| 150° | 381 | 381 | 381 | 381 | 381 | 381 | 381 |
| 155° | 354 | 354 | 354 | 354 | 354 | 354 | 355 |
| 160° | 324 | 328 | 328 | 328 | 328 | 328 | 328 |
| 165° | 292 | 297 | 300 | 301 | 303 | 305 | 306 |
| 170° | 240 | 248 | 253 | 257 | 259 | 261 | 264 |
| 175° | 214 | 216 | 216 | 216 | 217 | 217 | 217 |
| 180° | 236 | 236 | 236 | 236 | 236 | 236 | 236 |

(END OF REPORT)