

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: LUMARK

Report Number: P144893

Luminaire Tested: **LDRC-SL2-F02-E-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144893
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33701)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRC-SL2-F02-E-8030
Description: RC LED ROADWAY SMALL CUTOFF COBRAHEAD LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4080.1 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 55
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

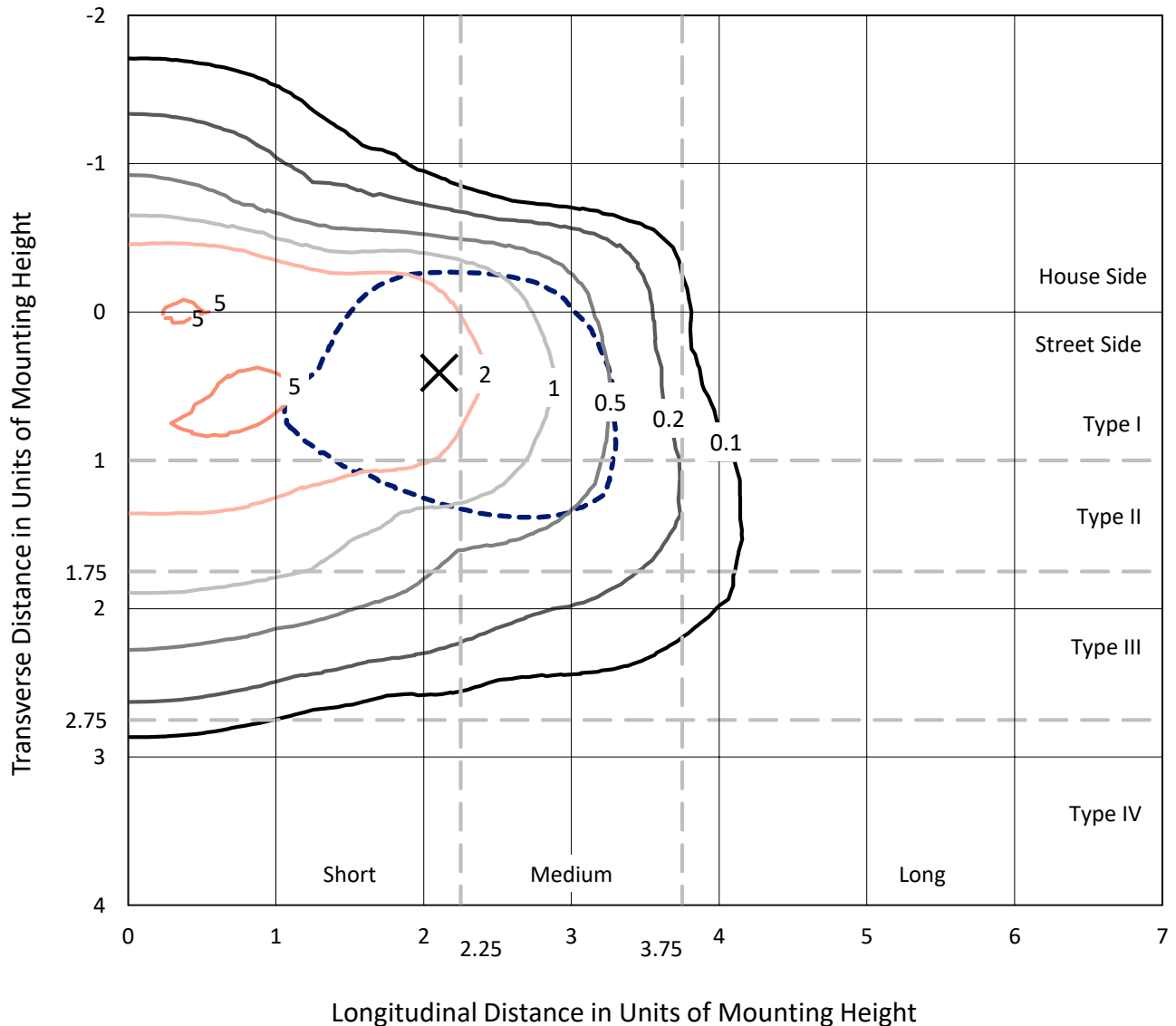


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Iso-Footcandle Lines of Horizontal Illumination

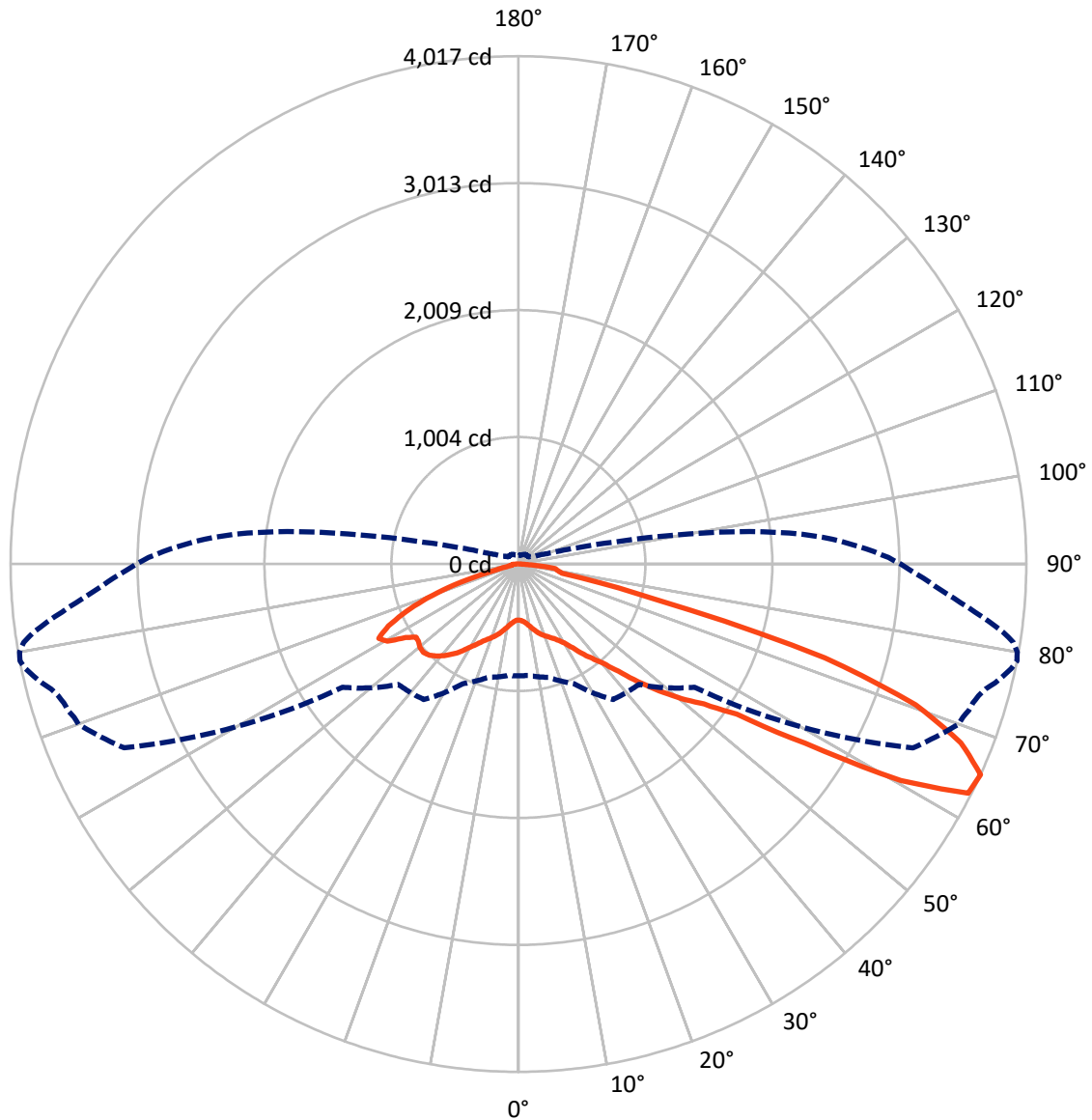
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 926.1 | 0.0 | 926.1 |
| | % Fixture | 22.7 | 0.0 | 22.7 |
| Street Side | Lumens | 3153.9 | 0.0 | 3153.9 |
| | % Fixture | 77.3 | 0.0 | 77.3 |
| Total | Lumens | 4080.1 | 0.0 | 4080.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 44.0 | 1.1 |
| 10°-20° | 143.3 | 3.5 |
| 20°-30° | 247.0 | 6.1 |
| 30°-40° | 402.8 | 9.9 |
| 40°-50° | 672.4 | 16.5 |
| 50°-60° | 909.2 | 22.3 |
| 60°-70° | 1129.5 | 27.7 |
| 70°-80° | 452.3 | 11.1 |
| 80°-90° | 79.5 | 1.9 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 4080.1 | 100.0 |
| 0°-180° | 4080.1 | 100.0 |



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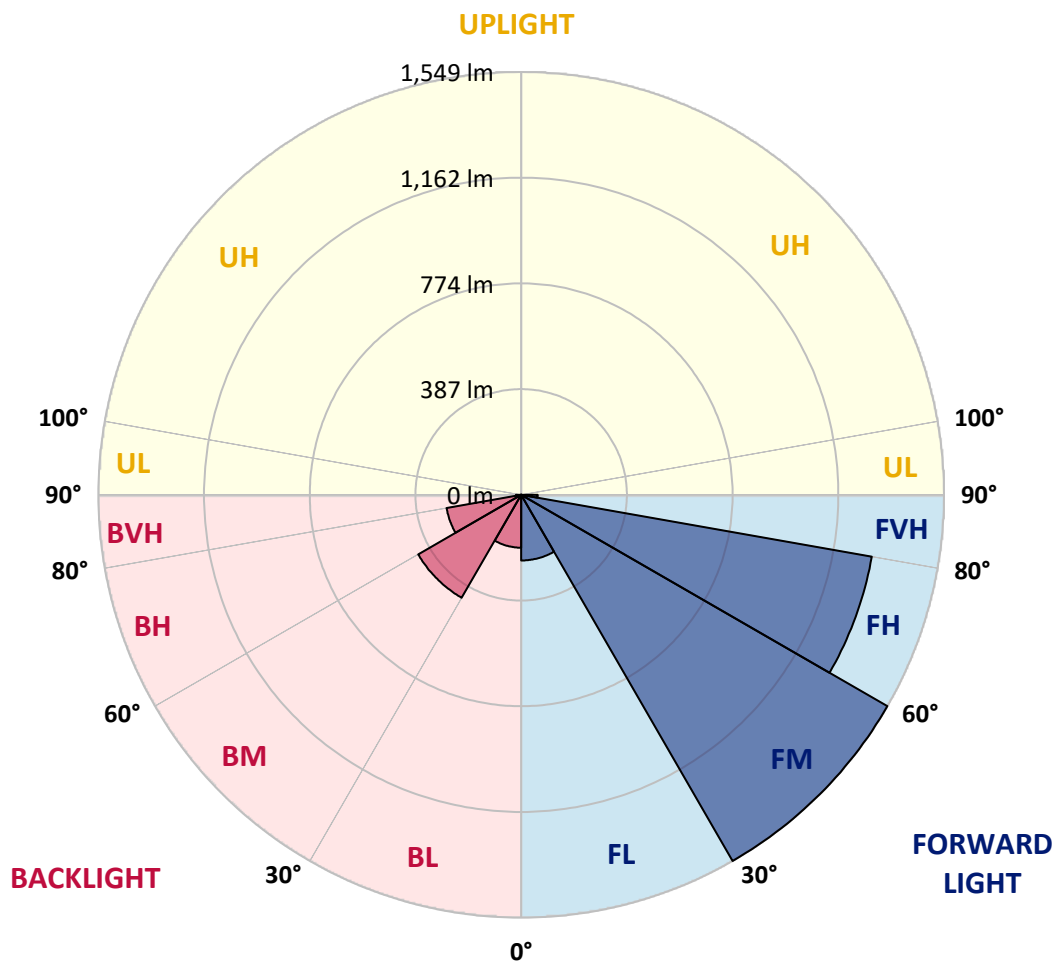
CATALOG NUMBER: LDRC-SL2-F02-E-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 240.6 | 5.9 | | | |
| FM | (30°-60°) | 1548.8 | 38.0 | | | |
| FH | (60°-80°) | 1304.2 | 32.0 | | | G1/1800 |
| FVH | (80°-90°) | 60.3 | 1.5 | | | G1/100 |
| BL | (0°-30°) | 193.7 | 4.7 | B1/500 | | |
| BM | (30°-60°) | 435.6 | 10.7 | B1/1000 | | |
| BH | (60°-80°) | 277.6 | 6.8 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 19.2 | 0.5 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 71° | 72° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 443.4 | 443.4 | 443.4 | 443.4 | 443.4 | 443.4 | 443.4 | 443.4 | 443.4 | 443.4 | 443.4 |
| 2.5° | 446.7 | 446.5 | 447.9 | 449.0 | 449.0 | 449.5 | 449.3 | 447.6 | 447.9 | 448.4 | 447.9 |
| 5° | 451.8 | 450.6 | 452.0 | 453.7 | 454.8 | 456.2 | 457.6 | 457.9 | 459.0 | 459.0 | 458.7 |
| 7.5° | 462.6 | 461.8 | 463.7 | 464.3 | 466.8 | 469.0 | 471.8 | 473.8 | 474.9 | 475.5 | 476.3 |
| 10° | 481.3 | 480.7 | 481.3 | 482.4 | 483.5 | 486.0 | 490.8 | 495.0 | 497.5 | 497.5 | 498.6 |
| 12.5° | 503.9 | 501.6 | 502.2 | 500.0 | 500.5 | 505.8 | 511.4 | 518.4 | 522.6 | 523.1 | 523.7 |
| 15° | 521.4 | 520.3 | 519.5 | 516.4 | 518.6 | 525.6 | 534.3 | 544.3 | 547.9 | 551.0 | 550.7 |
| 17.5° | 537.9 | 536.5 | 534.5 | 530.4 | 532.6 | 543.7 | 556.8 | 568.0 | 574.1 | 574.7 | 575.2 |
| 20° | 557.4 | 555.7 | 552.1 | 543.5 | 542.9 | 558.5 | 576.1 | 588.0 | 593.6 | 596.1 | 597.0 |
| 22.5° | 582.2 | 580.0 | 573.3 | 556.6 | 552.1 | 570.5 | 591.4 | 606.2 | 612.0 | 614.5 | 615.9 |
| 25° | 614.0 | 609.5 | 598.9 | 572.7 | 563.5 | 582.7 | 607.8 | 625.7 | 633.8 | 636.3 | 637.9 |
| 27.5° | 642.7 | 639.3 | 626.5 | 595.6 | 579.7 | 599.2 | 627.9 | 650.8 | 661.9 | 665.0 | 667.5 |
| 30° | 676.1 | 671.4 | 661.1 | 628.2 | 607.0 | 624.3 | 660.8 | 689.8 | 703.4 | 703.7 | 709.3 |
| 32.5° | 754.7 | 751.6 | 742.2 | 705.9 | 670.3 | 671.4 | 705.4 | 745.2 | 758.9 | 761.1 | 766.1 |
| 35° | 871.2 | 870.1 | 869.8 | 849.7 | 823.3 | 796.0 | 798.5 | 828.8 | 838.0 | 841.7 | 843.3 |
| 37.5° | 947.8 | 957.6 | 981.3 | 995.8 | 989.1 | 994.9 | 964.3 | 927.2 | 921.9 | 918.0 | 919.7 |
| 40° | 1013.9 | 1022.5 | 1070.5 | 1137.4 | 1178.0 | 1206.7 | 1179.7 | 1066.0 | 1023.6 | 1011.4 | 1006.6 |
| 42.5° | 1052.9 | 1062.7 | 1131.2 | 1238.2 | 1341.9 | 1409.9 | 1417.2 | 1259.1 | 1151.6 | 1150.2 | 1132.3 |
| 45° | 1074.1 | 1083.8 | 1165.8 | 1309.9 | 1456.5 | 1579.1 | 1642.6 | 1496.9 | 1338.8 | 1327.1 | 1302.3 |
| 47.5° | 1069.9 | 1079.1 | 1164.4 | 1336.3 | 1524.2 | 1691.4 | 1818.5 | 1737.1 | 1554.8 | 1526.7 | 1492.4 |
| 50° | 1018.9 | 1025.6 | 1115.1 | 1293.1 | 1506.1 | 1738.2 | 1938.9 | 1957.5 | 1799.2 | 1761.1 | 1709.8 |
| 52.5° | 966.2 | 978.2 | 1052.3 | 1216.5 | 1423.8 | 1709.2 | 2010.8 | 2158.2 | 2027.5 | 2001.3 | 1935.5 |
| 55° | 937.8 | 947.3 | 1007.8 | 1147.9 | 1337.2 | 1610.3 | 2040.6 | 2347.4 | 2304.8 | 2294.2 | 2247.7 |
| 57.5° | 936.7 | 945.9 | 994.1 | 1106.4 | 1266.7 | 1507.2 | 2049.2 | 2639.8 | 2764.9 | 2767.7 | 2754.3 |
| 60° | 982.4 | 991.9 | 1032.3 | 1126.5 | 1244.9 | 1418.8 | 2018.3 | 3054.5 | 3331.0 | 3355.5 | 3396.4 |
| 62.5° | 988.8 | 993.3 | 1042.0 | 1169.1 | 1324.1 | 1352.8 | 1890.9 | 3399.8 | 3720.0 | 3742.6 | 3765.2 |
| 65° | 884.6 | 884.3 | 927.5 | 1044.5 | 1307.6 | 1346.1 | 1699.5 | 3442.2 | 3704.4 | 3718.1 | 3746.2 |
| 67.5° | 659.7 | 654.1 | 678.6 | 785.6 | 1037.6 | 1347.8 | 1472.6 | 3122.5 | 3415.7 | 3441.6 | 3451.1 |
| 70° | 340.0 | 348.6 | 365.4 | 430.9 | 658.8 | 1085.0 | 1265.0 | 2634.5 | 2998.5 | 3008.2 | 3041.9 |
| 72.5° | 139.6 | 136.0 | 147.4 | 181.2 | 329.7 | 717.1 | 1046.5 | 2079.1 | 2476.5 | 2469.8 | 2475.9 |
| 75° | 77.8 | 78.9 | 82.2 | 94.5 | 160.2 | 360.1 | 899.1 | 1471.8 | 1684.1 | 1568.8 | 1533.9 |
| 77.5° | 62.4 | 63.0 | 63.3 | 65.5 | 87.5 | 192.0 | 690.0 | 969.3 | 847.0 | 786.5 | 763.3 |
| 80° | 45.7 | 48.8 | 52.1 | 52.7 | 60.2 | 109.0 | 378.5 | 816.0 | 714.9 | 664.7 | 623.4 |
| 82.5° | 36.8 | 38.2 | 45.4 | 46.5 | 47.9 | 64.9 | 171.4 | 766.4 | 712.1 | 660.8 | 603.9 |
| 85° | 22.0 | 24.5 | 37.1 | 37.3 | 37.9 | 39.6 | 94.8 | 312.1 | 388.2 | 343.1 | 314.1 |
| 87.5° | 7.8 | 10.0 | 18.4 | 15.3 | 19.5 | 16.2 | 41.5 | 104.5 | 128.8 | 122.3 | 108.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: LDRC-SL2-F02-E-8030

CANDELA DISTRIBUTION (continued):

| | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | 81° | 82° | 83° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 443.4 | 443.4 | 443.4 | 443.4 | 443.4 | 443.4 | 443.4 | 443.4 | 443.4 | 443.4 | 443.4 |
| 2.5° | 447.6 | 447.6 | 448.1 | 447.9 | 447.9 | 447.9 | 447.9 | 447.3 | 447.3 | 446.5 | 447.0 |
| 5° | 458.7 | 458.5 | 458.7 | 459.0 | 458.7 | 459.3 | 459.0 | 458.7 | 459.0 | 458.7 | 459.0 |
| 7.5° | 476.6 | 475.2 | 477.1 | 476.0 | 475.7 | 477.4 | 476.6 | 477.4 | 477.7 | 477.4 | 477.1 |
| 10° | 499.1 | 500.0 | 500.0 | 500.0 | 499.4 | 501.1 | 501.4 | 501.9 | 502.2 | 503.3 | 503.3 |
| 12.5° | 525.1 | 525.3 | 526.5 | 526.2 | 526.7 | 528.7 | 530.1 | 530.4 | 530.6 | 531.5 | 530.4 |
| 15° | 552.9 | 553.5 | 553.5 | 556.0 | 555.2 | 557.9 | 558.8 | 558.8 | 559.1 | 562.4 | 562.7 |
| 17.5° | 577.7 | 577.7 | 580.0 | 580.0 | 582.2 | 582.7 | 585.3 | 585.5 | 586.7 | 589.7 | 590.0 |
| 20° | 598.6 | 599.7 | 601.1 | 602.8 | 603.7 | 605.3 | 607.0 | 608.7 | 610.1 | 612.6 | 612.8 |
| 22.5° | 618.4 | 619.5 | 621.8 | 622.9 | 624.8 | 625.9 | 627.3 | 629.3 | 631.5 | 634.9 | 635.7 |
| 25° | 641.3 | 642.4 | 644.9 | 646.6 | 648.8 | 650.5 | 653.0 | 655.5 | 656.9 | 660.2 | 662.7 |
| 27.5° | 670.3 | 673.6 | 676.9 | 677.8 | 679.5 | 683.4 | 686.7 | 690.0 | 693.1 | 694.8 | 697.9 |
| 30° | 712.6 | 712.6 | 719.6 | 719.6 | 722.7 | 726.3 | 728.5 | 732.1 | 737.7 | 739.4 | 743.3 |
| 32.5° | 769.5 | 770.9 | 773.4 | 780.9 | 786.5 | 788.1 | 789.8 | 795.1 | 798.5 | 802.6 | 807.4 |
| 35° | 850.6 | 852.0 | 853.4 | 860.6 | 867.0 | 868.7 | 870.4 | 873.7 | 879.3 | 886.5 | 884.3 |
| 37.5° | 923.3 | 924.2 | 928.6 | 936.7 | 940.3 | 944.8 | 946.2 | 952.3 | 955.4 | 962.1 | 962.3 |
| 40° | 1010.8 | 1008.9 | 1011.4 | 1020.6 | 1026.2 | 1025.9 | 1030.3 | 1041.5 | 1043.7 | 1046.8 | 1054.6 |
| 42.5° | 1132.9 | 1125.6 | 1133.4 | 1136.5 | 1144.9 | 1150.2 | 1159.1 | 1166.6 | 1171.9 | 1183.6 | 1189.2 |
| 45° | 1290.6 | 1283.1 | 1289.5 | 1290.9 | 1308.2 | 1313.5 | 1326.9 | 1336.9 | 1348.3 | 1361.7 | 1365.6 |
| 47.5° | 1470.4 | 1456.5 | 1448.7 | 1457.3 | 1477.9 | 1486.6 | 1499.7 | 1509.1 | 1521.1 | 1528.1 | 1525.9 |
| 50° | 1678.6 | 1645.1 | 1629.5 | 1625.1 | 1639.8 | 1652.1 | 1672.4 | 1676.9 | 1682.5 | 1682.2 | 1682.5 |
| 52.5° | 1910.7 | 1875.9 | 1843.3 | 1820.7 | 1818.5 | 1834.9 | 1839.9 | 1841.1 | 1839.4 | 1826.8 | 1819.0 |
| 55° | 2213.9 | 2211.4 | 2177.2 | 2130.3 | 2127.3 | 2125.3 | 2096.1 | 2092.4 | 2085.7 | 2066.5 | 2040.0 |
| 57.5° | 2764.1 | 2792.0 | 2769.4 | 2768.3 | 2743.7 | 2727.6 | 2673.8 | 2647.0 | 2618.9 | 2566.8 | 2525.2 |
| 60° | 3400.1 | 3440.5 | 3462.8 | 3472.5 | 3520.5 | 3520.5 | 3476.4 | 3438.5 | 3392.8 | 3313.4 | 3235.9 |
| 62.5° | 3783.0 | 3818.4 | 3851.3 | 3902.8 | 3963.9 | 3990.9 | 3993.1 | 3959.4 | 3901.7 | 3811.1 | 3701.6 |
| 65° | 3758.7 | 3784.9 | 3824.8 | 3885.6 | 3936.0 | 3984.5 | 4017.1 | 4006.8 | 3962.8 | 3872.2 | 3752.9 |
| 67.5° | 3484.2 | 3522.4 | 3574.0 | 3630.0 | 3676.8 | 3722.5 | 3775.2 | 3779.1 | 3767.4 | 3681.3 | 3573.4 |
| 70° | 3060.6 | 3109.7 | 3142.3 | 3212.8 | 3234.0 | 3280.2 | 3333.2 | 3358.5 | 3339.6 | 3273.3 | 3210.0 |
| 72.5° | 2486.5 | 2525.2 | 2530.8 | 2500.2 | 2510.8 | 2522.2 | 2535.0 | 2475.6 | 2452.8 | 2364.2 | 2323.5 |
| 75° | 1507.7 | 1456.7 | 1413.8 | 1371.2 | 1243.8 | 1198.7 | 1129.3 | 992.4 | 976.8 | 882.9 | 817.7 |
| 77.5° | 717.1 | 695.6 | 656.9 | 591.9 | 505.6 | 422.8 | 350.9 | 285.1 | 260.6 | 214.6 | 182.8 |
| 80° | 600.3 | 574.7 | 539.8 | 491.6 | 431.1 | 370.9 | 314.1 | 265.3 | 216.3 | 176.1 | 140.7 |
| 82.5° | 550.7 | 506.1 | 457.1 | 415.5 | 372.9 | 331.9 | 293.7 | 249.7 | 223.8 | 180.6 | 147.4 |
| 85° | 278.4 | 243.9 | 197.6 | 166.4 | 140.5 | 114.3 | 98.9 | 84.4 | 75.2 | 59.9 | 52.1 |
| 87.5° | 93.4 | 76.4 | 56.9 | 48.2 | 43.5 | 37.3 | 34.3 | 32.6 | 31.8 | 28.1 | 25.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: LDRC-SL2-F02-E-8030

CANDELA DISTRIBUTION (continued):

| | 84° | 85° | 86° | 87° | 88° | 89° | 90° | 91° | 92° | 93° | 94° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 443.4 | 443.4 | 443.4 | 443.4 | 443.4 | 443.4 | 443.4 | 443.4 | 443.4 | 443.4 | 443.4 |
| 2.5° | 447.0 | 447.0 | 447.0 | 447.0 | 446.7 | 446.7 | 446.7 | 446.7 | 446.7 | 446.7 | 447.0 |
| 5° | 458.5 | 458.5 | 458.7 | 459.6 | 457.9 | 458.5 | 459.0 | 458.2 | 459.0 | 458.2 | 459.3 |
| 7.5° | 476.8 | 477.7 | 477.1 | 478.2 | 477.7 | 479.4 | 478.2 | 477.4 | 478.0 | 478.0 | 478.2 |
| 10° | 502.8 | 503.9 | 503.0 | 503.6 | 503.6 | 504.7 | 503.3 | 503.6 | 503.9 | 503.3 | 503.6 |
| 12.5° | 531.5 | 532.0 | 531.7 | 533.4 | 532.6 | 533.4 | 532.6 | 533.7 | 534.3 | 534.8 | 534.8 |
| 15° | 562.7 | 563.2 | 564.9 | 564.6 | 566.3 | 565.7 | 566.0 | 564.6 | 567.4 | 565.7 | 566.3 |
| 17.5° | 591.4 | 591.1 | 593.3 | 594.2 | 594.5 | 594.7 | 595.6 | 594.5 | 594.7 | 595.6 | 595.0 |
| 20° | 613.7 | 615.6 | 616.2 | 618.4 | 620.1 | 620.7 | 620.4 | 621.2 | 622.3 | 621.2 | 621.2 |
| 22.5° | 637.4 | 640.2 | 641.0 | 642.4 | 644.1 | 644.3 | 646.0 | 646.8 | 647.4 | 647.1 | 647.4 |
| 25° | 665.8 | 667.8 | 669.7 | 672.5 | 674.4 | 674.7 | 676.1 | 677.2 | 677.5 | 677.2 | 678.9 |
| 27.5° | 700.6 | 703.1 | 705.7 | 709.0 | 711.2 | 711.8 | 714.9 | 714.9 | 716.5 | 717.4 | 717.9 |
| 30° | 745.5 | 746.3 | 752.8 | 756.1 | 755.3 | 759.2 | 763.3 | 763.1 | 765.0 | 765.6 | 767.0 |
| 32.5° | 810.7 | 810.7 | 816.3 | 820.5 | 824.9 | 823.5 | 830.0 | 828.8 | 831.9 | 833.6 | 832.7 |
| 35° | 889.9 | 892.7 | 896.8 | 899.3 | 904.1 | 906.6 | 911.1 | 913.6 | 915.0 | 914.7 | 911.6 |
| 37.5° | 971.5 | 976.0 | 977.7 | 983.8 | 988.5 | 992.7 | 993.3 | 990.5 | 991.6 | 986.0 | 984.3 |
| 40° | 1064.9 | 1071.3 | 1075.2 | 1084.4 | 1083.8 | 1089.1 | 1089.7 | 1081.6 | 1080.2 | 1073.0 | 1065.4 |
| 42.5° | 1195.3 | 1204.2 | 1207.3 | 1214.3 | 1208.7 | 1211.2 | 1197.3 | 1193.9 | 1182.8 | 1171.1 | 1154.1 |
| 45° | 1371.2 | 1366.7 | 1368.7 | 1366.7 | 1351.9 | 1341.1 | 1329.7 | 1313.2 | 1296.8 | 1274.2 | 1249.9 |
| 47.5° | 1525.9 | 1528.1 | 1513.6 | 1504.4 | 1480.4 | 1465.1 | 1444.2 | 1415.5 | 1395.4 | 1365.0 | 1333.0 |
| 50° | 1676.1 | 1651.3 | 1630.9 | 1609.7 | 1588.6 | 1560.4 | 1528.9 | 1503.6 | 1474.3 | 1436.4 | 1397.1 |
| 52.5° | 1798.1 | 1766.1 | 1741.6 | 1711.5 | 1682.8 | 1651.5 | 1618.7 | 1581.9 | 1543.4 | 1505.5 | 1457.0 |
| 55° | 2014.4 | 1967.9 | 1936.4 | 1883.7 | 1851.1 | 1807.3 | 1781.7 | 1734.0 | 1680.5 | 1630.4 | 1578.8 |
| 57.5° | 2478.4 | 2408.8 | 2372.8 | 2343.0 | 2292.3 | 2220.4 | 2174.7 | 2096.3 | 2020.0 | 1966.5 | 1880.6 |
| 60° | 3177.4 | 3106.6 | 3047.0 | 2976.5 | 2898.7 | 2801.2 | 2757.7 | 2665.4 | 2556.2 | 2467.8 | 2354.4 |
| 62.5° | 3613.0 | 3515.2 | 3418.5 | 3319.5 | 3241.5 | 3165.1 | 3075.1 | 2982.0 | 2873.9 | 2753.8 | 2629.8 |
| 65° | 3630.5 | 3513.2 | 3397.6 | 3296.7 | 3205.3 | 3106.0 | 3021.6 | 2927.1 | 2813.4 | 2689.7 | 2560.9 |
| 67.5° | 3448.3 | 3317.0 | 3193.0 | 3082.4 | 2977.8 | 2885.9 | 2797.5 | 2708.6 | 2586.8 | 2483.2 | 2351.3 |
| 70° | 3085.1 | 2965.3 | 2853.0 | 2727.0 | 2647.0 | 2543.6 | 2457.5 | 2363.9 | 2276.7 | 2179.7 | 2056.2 |
| 72.5° | 2266.1 | 2175.8 | 2047.6 | 1994.1 | 1951.1 | 1841.6 | 1777.5 | 1769.7 | 1714.0 | 1597.8 | 1505.5 |
| 75° | 842.8 | 717.4 | 679.5 | 702.0 | 664.4 | 676.9 | 672.2 | 645.5 | 646.6 | 626.8 | 603.4 |
| 77.5° | 165.0 | 153.3 | 144.1 | 146.6 | 136.3 | 131.8 | 141.3 | 138.5 | 133.5 | 134.9 | 132.7 |
| 80° | 112.3 | 95.0 | 86.1 | 82.8 | 78.6 | 76.6 | 76.1 | 75.2 | 73.6 | 72.7 | 70.2 |
| 82.5° | 110.6 | 82.2 | 64.9 | 55.7 | 52.4 | 50.7 | 49.3 | 49.1 | 48.5 | 48.2 | 49.1 |
| 85° | 44.0 | 35.7 | 32.6 | 29.8 | 29.0 | 28.1 | 28.1 | 27.9 | 27.6 | 28.1 | 29.3 |
| 87.5° | 21.5 | 18.1 | 16.4 | 15.0 | 14.5 | 14.2 | 14.2 | 14.5 | 14.8 | 15.9 | 18.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 95° | 96° | 97° | 98° | 99° | 100° | 101° | 102° | 103° | 104° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0° | 443.4 | 443.4 | 443.4 | 443.4 | 443.4 | 443.4 | 443.4 | 443.4 | 443.4 | 443.4 | 443.4 |
| 2.5° | 446.5 | 446.7 | 446.2 | 446.5 | 446.2 | 445.6 | 445.4 | 446.2 | 445.9 | 445.6 | 445.6 |
| 5° | 457.9 | 459.0 | 458.5 | 457.9 | 457.9 | 457.6 | 457.6 | 457.6 | 457.3 | 457.6 | 456.8 |
| 7.5° | 477.7 | 477.4 | 477.4 | 476.8 | 476.3 | 476.8 | 476.6 | 475.7 | 476.0 | 475.5 | 474.6 |
| 10° | 503.0 | 502.2 | 503.6 | 503.6 | 502.5 | 502.2 | 501.6 | 500.8 | 500.8 | 500.0 | 500.0 |
| 12.5° | 533.1 | 532.3 | 534.3 | 532.9 | 531.2 | 530.9 | 529.2 | 528.7 | 529.5 | 529.2 | 528.7 |
| 15° | 563.8 | 564.1 | 564.9 | 564.6 | 562.7 | 562.7 | 560.5 | 560.7 | 559.1 | 558.5 | 557.1 |
| 17.5° | 593.6 | 593.9 | 593.1 | 593.1 | 591.7 | 590.8 | 588.3 | 588.6 | 587.5 | 585.3 | 583.6 |
| 20° | 620.4 | 620.1 | 618.1 | 619.8 | 617.0 | 616.5 | 614.2 | 612.0 | 612.6 | 610.3 | 607.0 |
| 22.5° | 646.6 | 646.0 | 645.5 | 644.6 | 643.2 | 642.7 | 640.2 | 639.9 | 637.1 | 633.8 | 631.0 |
| 25° | 676.9 | 676.7 | 675.8 | 676.1 | 673.3 | 673.6 | 669.1 | 668.0 | 666.4 | 662.7 | 660.5 |
| 27.5° | 716.2 | 716.2 | 714.0 | 713.2 | 712.3 | 711.2 | 707.3 | 704.5 | 700.4 | 696.2 | 691.7 |
| 30° | 764.5 | 763.9 | 763.3 | 761.1 | 758.0 | 756.4 | 749.4 | 744.9 | 739.4 | 731.6 | 724.9 |
| 32.5° | 833.3 | 828.6 | 824.7 | 819.6 | 814.6 | 809.3 | 798.5 | 790.9 | 782.0 | 769.5 | 758.9 |
| 35° | 909.9 | 901.9 | 897.7 | 887.4 | 877.9 | 867.3 | 854.2 | 838.9 | 826.6 | 810.2 | 792.9 |
| 37.5° | 973.2 | 967.1 | 955.9 | 944.2 | 930.8 | 910.8 | 896.0 | 879.6 | 858.1 | 840.0 | 819.1 |
| 40° | 1051.2 | 1037.3 | 1021.4 | 1001.9 | 983.5 | 960.9 | 940.6 | 916.9 | 890.7 | 864.5 | 837.2 |
| 42.5° | 1133.2 | 1111.7 | 1085.5 | 1062.9 | 1035.1 | 1005.5 | 979.1 | 947.0 | 913.6 | 878.4 | 841.9 |
| 45° | 1216.8 | 1190.3 | 1155.5 | 1123.4 | 1084.7 | 1047.6 | 1009.7 | 966.0 | 920.2 | 873.4 | 827.4 |
| 47.5° | 1293.4 | 1254.7 | 1215.1 | 1171.9 | 1127.3 | 1079.7 | 1025.9 | 968.5 | 908.3 | 846.7 | 789.3 |
| 50° | 1353.6 | 1305.1 | 1255.2 | 1205.4 | 1150.7 | 1088.9 | 1021.1 | 946.2 | 872.0 | 798.2 | 732.1 |
| 52.5° | 1406.8 | 1352.5 | 1291.2 | 1229.3 | 1161.9 | 1085.8 | 1001.1 | 912.7 | 822.4 | 740.8 | 666.6 |
| 55° | 1510.0 | 1441.7 | 1360.9 | 1281.2 | 1195.9 | 1100.0 | 994.4 | 886.2 | 782.3 | 693.4 | 614.5 |
| 57.5° | 1790.1 | 1697.8 | 1572.7 | 1462.0 | 1353.9 | 1214.3 | 1065.4 | 932.2 | 799.9 | 694.8 | 607.0 |
| 60° | 2231.2 | 2081.0 | 1937.8 | 1769.2 | 1594.1 | 1402.7 | 1203.1 | 1023.6 | 862.3 | 730.5 | 624.8 |
| 62.5° | 2487.1 | 2328.5 | 2144.3 | 1940.0 | 1713.1 | 1479.9 | 1250.8 | 1041.2 | 864.2 | 720.7 | 603.7 |
| 65° | 2418.0 | 2258.5 | 2055.9 | 1846.9 | 1605.6 | 1367.0 | 1139.6 | 938.4 | 766.7 | 634.0 | 522.0 |
| 67.5° | 2212.8 | 2046.2 | 1855.8 | 1624.0 | 1393.2 | 1172.2 | 964.8 | 775.3 | 623.4 | 499.7 | 400.8 |
| 70° | 1914.4 | 1766.1 | 1582.7 | 1368.9 | 1145.2 | 946.4 | 771.7 | 600.9 | 472.4 | 359.0 | 280.9 |
| 72.5° | 1420.8 | 1289.5 | 1175.0 | 996.3 | 832.5 | 676.7 | 534.3 | 418.0 | 307.4 | 232.4 | 178.9 |
| 75° | 596.4 | 552.1 | 533.4 | 467.9 | 406.9 | 333.6 | 251.1 | 200.1 | 162.2 | 138.0 | 109.5 |
| 77.5° | 144.6 | 144.6 | 136.0 | 127.4 | 117.1 | 105.9 | 93.6 | 83.6 | 78.6 | 74.1 | 70.5 |
| 80° | 70.2 | 69.7 | 67.4 | 67.2 | 65.2 | 62.7 | 61.3 | 59.4 | 58.5 | 57.4 | 56.9 |
| 82.5° | 49.3 | 49.1 | 48.2 | 49.3 | 49.1 | 50.2 | 50.7 | 51.0 | 51.0 | 51.3 | 51.6 |
| 85° | 31.2 | 32.3 | 34.6 | 37.3 | 39.9 | 42.9 | 45.7 | 47.9 | 49.6 | 51.0 | 52.1 |
| 87.5° | 19.8 | 22.6 | 24.2 | 28.4 | 32.6 | 37.3 | 42.6 | 44.9 | 46.8 | 47.1 | 45.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: LDRC-SL2-F02-E-8030

CANDELA DISTRIBUTION (continued):

| | 106° | 107° | 108° | 109° | 110° | 115° | 125° | 135° | 145° | 155° | 165° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 443.4 | 443.4 | 443.4 | 443.4 | 443.4 | 443.4 | 443.4 | 443.4 | 443.4 | 443.4 | 443.4 |
| 2.5° | 445.6 | 445.4 | 445.9 | 445.4 | 445.4 | 445.1 | 444.2 | 443.4 | 442.6 | 442.3 | 441.5 |
| 5° | 456.5 | 456.5 | 457.1 | 455.9 | 456.2 | 455.1 | 452.6 | 449.8 | 447.3 | 445.1 | 442.6 |
| 7.5° | 474.9 | 474.1 | 474.3 | 474.1 | 473.5 | 471.3 | 465.7 | 458.7 | 452.0 | 445.1 | 439.5 |
| 10° | 499.4 | 497.7 | 497.7 | 497.2 | 496.4 | 493.3 | 481.6 | 467.6 | 453.7 | 441.2 | 432.0 |
| 12.5° | 526.7 | 527.0 | 524.8 | 523.4 | 522.0 | 515.6 | 498.0 | 475.7 | 453.7 | 433.6 | 418.9 |
| 15° | 555.2 | 554.9 | 552.4 | 551.5 | 548.5 | 539.0 | 512.5 | 479.9 | 448.4 | 418.9 | 396.9 |
| 17.5° | 580.8 | 579.7 | 577.2 | 575.5 | 572.2 | 559.6 | 522.3 | 478.0 | 434.5 | 395.7 | 368.2 |
| 20° | 604.2 | 602.8 | 600.6 | 597.5 | 594.2 | 576.1 | 525.9 | 467.9 | 412.5 | 368.2 | 340.3 |
| 22.5° | 628.5 | 625.4 | 622.9 | 618.7 | 615.1 | 590.8 | 523.4 | 450.1 | 387.4 | 337.5 | 307.7 |
| 25° | 655.5 | 651.9 | 646.6 | 641.6 | 636.0 | 602.8 | 516.4 | 427.8 | 357.3 | 304.3 | 274.2 |
| 27.5° | 684.8 | 679.5 | 672.5 | 666.1 | 657.2 | 611.7 | 504.4 | 403.0 | 324.4 | 271.4 | 240.2 |
| 30° | 715.7 | 705.9 | 697.3 | 687.5 | 676.1 | 615.9 | 487.2 | 372.3 | 288.2 | 238.0 | 206.8 |
| 32.5° | 745.8 | 732.7 | 719.9 | 705.7 | 690.0 | 614.2 | 462.6 | 336.1 | 251.9 | 206.8 | 180.6 |
| 35° | 776.4 | 757.5 | 739.7 | 720.4 | 701.5 | 605.9 | 428.9 | 296.0 | 217.7 | 180.9 | 161.9 |
| 37.5° | 797.3 | 773.7 | 750.0 | 726.8 | 704.0 | 587.8 | 384.0 | 251.1 | 186.7 | 162.2 | 148.5 |
| 40° | 807.9 | 779.0 | 750.0 | 721.3 | 693.1 | 557.7 | 331.6 | 210.1 | 164.7 | 148.3 | 138.5 |
| 42.5° | 804.9 | 768.9 | 733.0 | 699.0 | 664.4 | 509.7 | 274.8 | 176.4 | 149.4 | 137.4 | 128.8 |
| 45° | 779.5 | 736.6 | 695.6 | 659.7 | 616.5 | 448.1 | 225.7 | 155.5 | 137.7 | 128.5 | 120.4 |
| 47.5° | 731.9 | 683.9 | 633.8 | 593.1 | 552.7 | 376.8 | 187.8 | 142.4 | 127.4 | 119.8 | 111.8 |
| 50° | 671.1 | 615.6 | 565.5 | 521.4 | 481.9 | 310.2 | 161.9 | 131.3 | 119.0 | 112.6 | 104.0 |
| 52.5° | 604.2 | 544.6 | 498.9 | 452.6 | 413.9 | 258.9 | 143.8 | 119.0 | 110.9 | 104.2 | 97.3 |
| 55° | 548.7 | 493.6 | 447.0 | 400.5 | 361.5 | 226.6 | 128.8 | 109.5 | 103.4 | 96.4 | 90.9 |
| 57.5° | 534.0 | 471.0 | 420.3 | 376.2 | 336.1 | 206.8 | 117.9 | 100.9 | 96.7 | 91.4 | 85.3 |
| 60° | 540.1 | 470.7 | 413.9 | 365.6 | 323.6 | 190.9 | 109.8 | 95.0 | 91.7 | 87.0 | 80.5 |
| 62.5° | 518.1 | 444.8 | 387.4 | 336.1 | 296.3 | 170.8 | 104.0 | 92.2 | 90.0 | 83.6 | 76.4 |
| 65° | 441.5 | 374.3 | 319.1 | 274.8 | 240.5 | 143.8 | 99.2 | 94.8 | 92.5 | 81.4 | 73.6 |
| 67.5° | 336.1 | 280.1 | 235.8 | 202.6 | 177.8 | 119.0 | 98.1 | 103.1 | 98.7 | 82.5 | 72.7 |
| 70° | 232.4 | 190.1 | 161.6 | 141.6 | 126.0 | 100.3 | 101.7 | 112.3 | 105.9 | 86.1 | 77.5 |
| 72.5° | 147.4 | 123.2 | 109.2 | 101.7 | 94.2 | 84.7 | 100.9 | 111.2 | 102.6 | 86.7 | 77.5 |
| 75° | 94.5 | 84.4 | 79.7 | 76.9 | 74.7 | 73.9 | 88.9 | 91.4 | 82.5 | 75.2 | 72.2 |
| 77.5° | 66.9 | 65.2 | 64.4 | 64.1 | 64.4 | 66.3 | 73.6 | 68.8 | 59.9 | 60.2 | 61.9 |
| 80° | 56.6 | 56.6 | 56.0 | 56.3 | 56.9 | 57.7 | 58.8 | 50.7 | 46.0 | 49.6 | 55.2 |
| 82.5° | 51.8 | 52.7 | 53.2 | 53.8 | 54.6 | 53.5 | 49.9 | 38.5 | 37.1 | 48.2 | 54.1 |
| 85° | 52.7 | 52.7 | 53.0 | 53.5 | 53.8 | 48.2 | 41.5 | 29.0 | 28.4 | 54.1 | 51.0 |
| 87.5° | 45.1 | 44.6 | 42.6 | 41.2 | 39.3 | 33.2 | 27.6 | 16.2 | 16.7 | 33.4 | 35.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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CATALOG NUMBER: LDRC-SL2-F02-E-8030

CANDELA DISTRIBUTION (continued):

| | 175° | 180° |
|-------|-------|-------|
| 0° | 443.4 | 443.4 |
| 2.5° | 441.2 | 441.2 |
| 5° | 441.2 | 441.2 |
| 7.5° | 437.5 | 436.4 |
| 10° | 427.0 | 425.6 |
| 12.5° | 410.8 | 409.4 |
| 15° | 386.0 | 384.3 |
| 17.5° | 355.1 | 352.3 |
| 20° | 322.7 | 318.8 |
| 22.5° | 290.4 | 287.3 |
| 25° | 257.2 | 254.4 |
| 27.5° | 224.6 | 221.8 |
| 30° | 194.5 | 193.4 |
| 32.5° | 172.2 | 171.1 |
| 35° | 155.8 | 155.2 |
| 37.5° | 144.6 | 144.1 |
| 40° | 134.9 | 134.3 |
| 42.5° | 126.0 | 125.1 |
| 45° | 117.1 | 117.3 |
| 47.5° | 108.1 | 107.9 |
| 50° | 100.3 | 100.3 |
| 52.5° | 93.9 | 93.6 |
| 55° | 88.1 | 87.8 |
| 57.5° | 82.2 | 81.9 |
| 60° | 77.2 | 76.4 |
| 62.5° | 72.5 | 71.9 |
| 65° | 69.4 | 69.1 |
| 67.5° | 67.2 | 66.3 |
| 70° | 66.6 | 64.4 |
| 72.5° | 64.9 | 62.1 |
| 75° | 61.0 | 59.6 |
| 77.5° | 53.8 | 52.1 |
| 80° | 41.5 | 38.5 |
| 82.5° | 34.8 | 30.1 |
| 85° | 25.6 | 23.7 |
| 87.5° | 18.7 | 14.8 |
| 90° | 0.0 | 0.0 |

(END OF REPORT)