

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: P144883

Luminaire Tested: **LDRC-SL2-F01-E-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144883
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-F01-E-8030
Description: RC LED ROADWAY SMALL CUTOFF COBRAHEAD LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (7) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2040 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

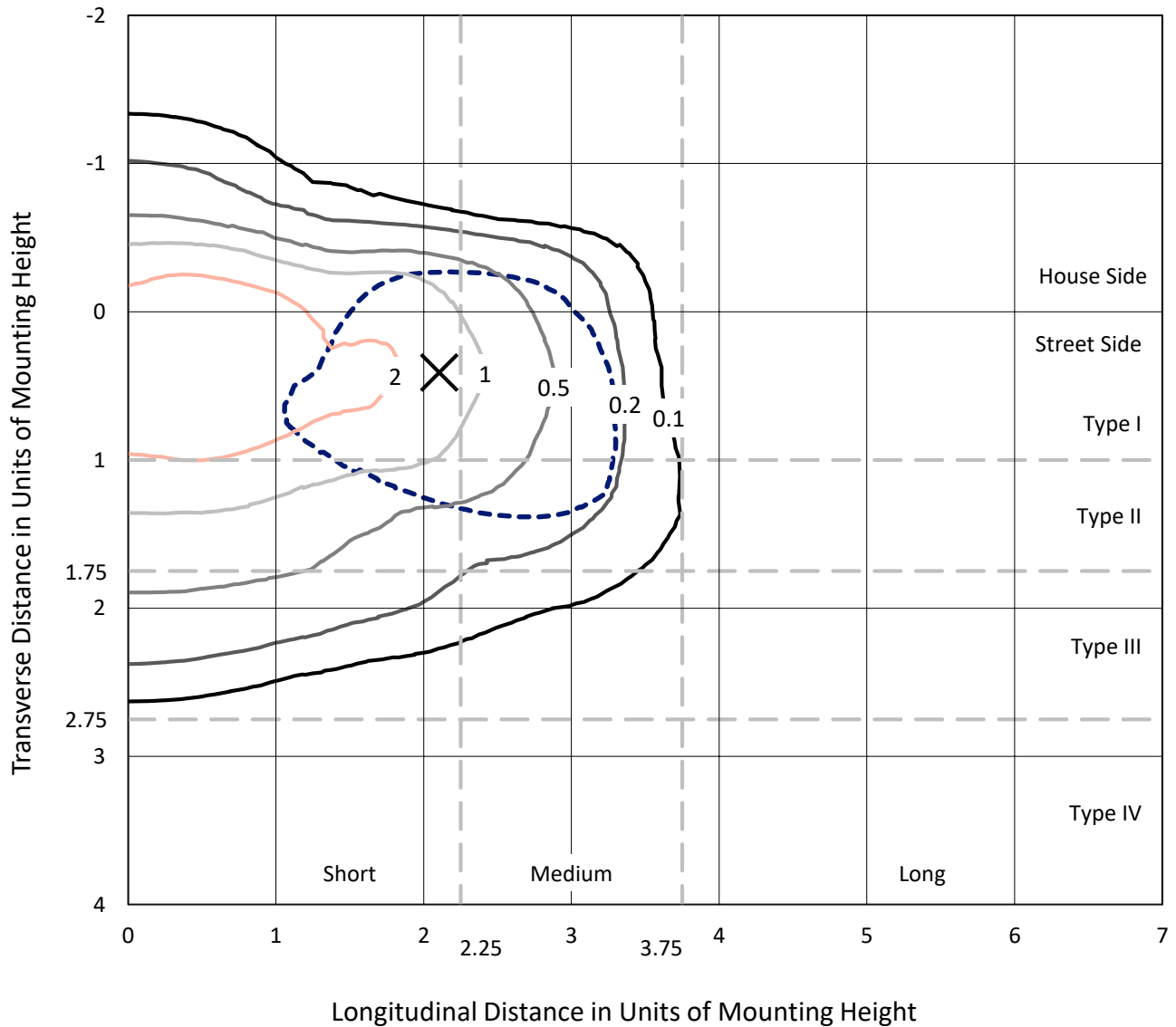
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P144883
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Iso-Footcandle Lines of Horizontal Illumination

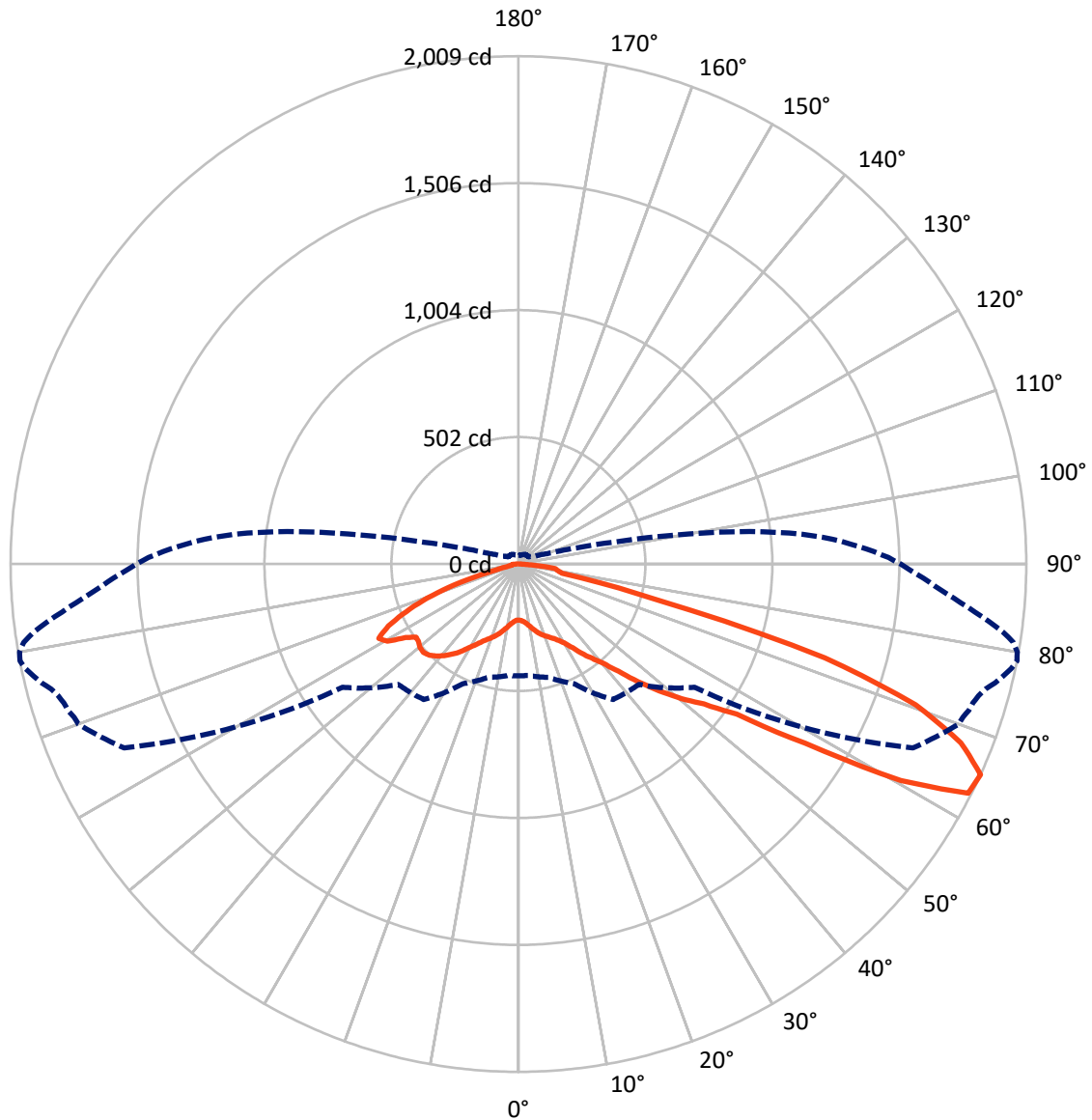
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.9 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 | 463.1 | 0.0 | 463.1 |
| | % Fixture | 22.7 | 0.0 | 22.7 |
| Street Side | Lumens | 1577.0 | 0.0 | 1577.0 |
| | % Fixture | 77.3 | 0.0 | 77.3 |
| Total | Lumens | 2040.0 | 0.0 | 2040.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 22.0 | 1.1 |
| 10°-20° | 71.6 | 3.5 |
| 20°-30° | 123.5 | 6.1 |
| 30°-40° | 201.4 | 9.9 |
| 40°-50° | 336.2 | 16.5 |
| 50°-60° | 454.6 | 22.3 |
| 60°-70° | 564.8 | 27.7 |
| 70°-80° | 226.1 | 11.1 |
| 80°-90° | 39.7 | 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° | 2040.0 | 100.0 |
| 0°-180° | 2040.0 | 100.0 |



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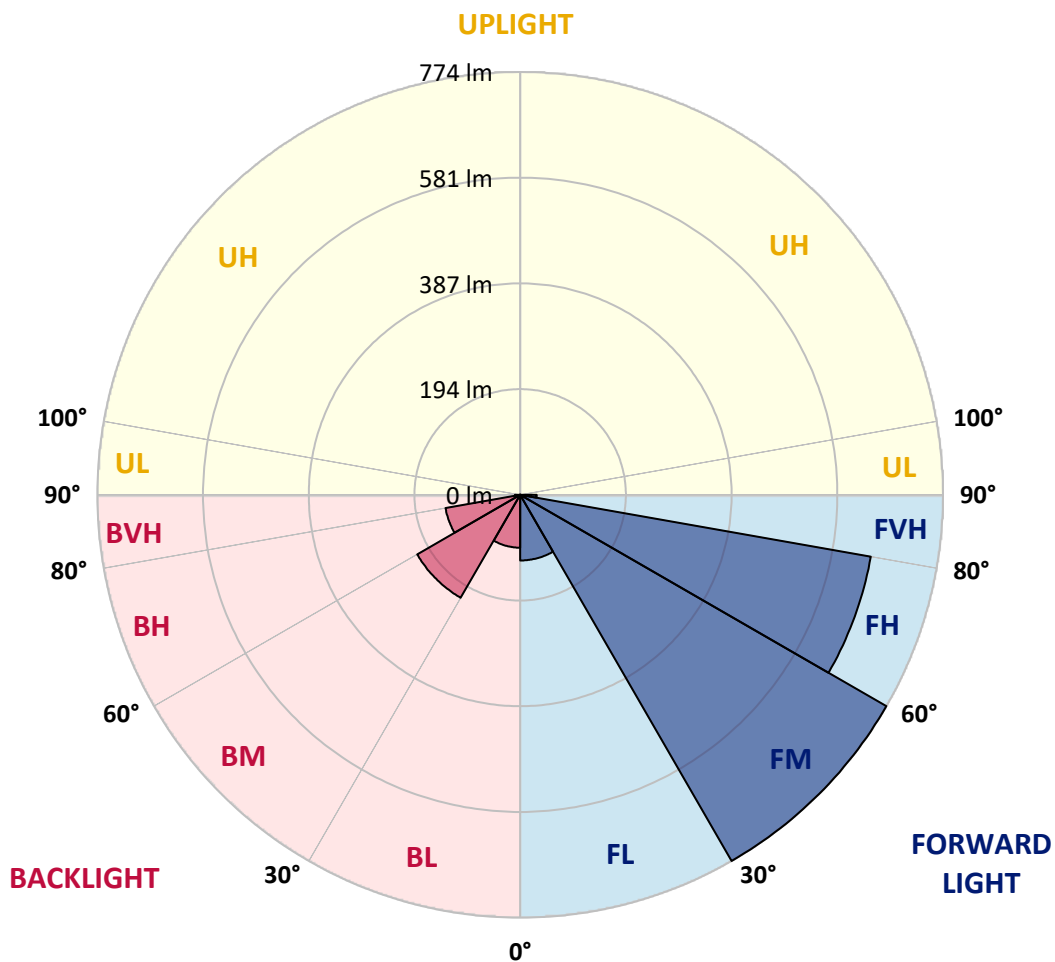
CATALOG NUMBER: LDRC-SL2-F01-E-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 120.3 | 5.9 | | | |
| FM (30°-60°) | 774.4 | 38.0 | | | |
| FH (60°-80°) | 652.1 | 32.0 | | | G0/660 |
| FVH (80°-90°) | 30.1 | 1.5 | | | G1/100 |
| BL (0°-30°) | 96.8 | 4.7 | B0/110 | | |
| BM (30°-60°) | 217.8 | 10.7 | B0/220 | | |
| BH (60°-80°) | 138.8 | 6.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 9.6 | 0.5 | | | G0/10 |
| 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° | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 |
| 2.5° | 223.4 | 223.2 | 223.9 | 224.5 | 224.5 | 224.8 | 224.6 | 223.8 | 223.9 | 224.2 | 223.9 |
| 5° | 225.9 | 225.3 | 226.0 | 226.9 | 227.4 | 228.1 | 228.8 | 228.9 | 229.5 | 229.5 | 229.4 |
| 7.5° | 231.3 | 230.9 | 231.9 | 232.2 | 233.4 | 234.5 | 235.9 | 236.9 | 237.4 | 237.7 | 238.1 |
| 10° | 240.7 | 240.4 | 240.7 | 241.2 | 241.8 | 243.0 | 245.4 | 247.5 | 248.7 | 248.7 | 249.3 |
| 12.5° | 251.9 | 250.8 | 251.1 | 250.0 | 250.3 | 252.9 | 255.7 | 259.2 | 261.3 | 261.6 | 261.8 |
| 15° | 260.7 | 260.2 | 259.7 | 258.2 | 259.3 | 262.8 | 267.1 | 272.1 | 274.0 | 275.5 | 275.3 |
| 17.5° | 268.9 | 268.2 | 267.3 | 265.2 | 266.3 | 271.9 | 278.4 | 284.0 | 287.1 | 287.3 | 287.6 |
| 20° | 278.7 | 277.9 | 276.0 | 271.7 | 271.4 | 279.3 | 288.0 | 294.0 | 296.8 | 298.1 | 298.5 |
| 22.5° | 291.1 | 290.0 | 286.6 | 278.3 | 276.0 | 285.2 | 295.7 | 303.1 | 306.0 | 307.3 | 308.0 |
| 25° | 307.0 | 304.8 | 299.5 | 286.4 | 281.8 | 291.4 | 303.9 | 312.8 | 316.9 | 318.1 | 319.0 |
| 27.5° | 321.3 | 319.7 | 313.3 | 297.8 | 289.8 | 299.6 | 313.9 | 325.4 | 330.9 | 332.5 | 333.7 |
| 30° | 338.1 | 335.7 | 330.5 | 314.1 | 303.5 | 312.1 | 330.4 | 344.9 | 351.7 | 351.9 | 354.6 |
| 32.5° | 377.4 | 375.8 | 371.1 | 353.0 | 335.1 | 335.7 | 352.7 | 372.6 | 379.4 | 380.6 | 383.1 |
| 35° | 435.6 | 435.0 | 434.9 | 424.9 | 411.6 | 398.0 | 399.2 | 414.4 | 419.0 | 420.8 | 421.7 |
| 37.5° | 473.9 | 478.8 | 490.6 | 497.9 | 494.5 | 497.5 | 482.1 | 463.6 | 461.0 | 459.0 | 459.8 |
| 40° | 506.9 | 511.3 | 535.2 | 568.7 | 589.0 | 603.4 | 589.9 | 533.0 | 511.8 | 505.7 | 503.3 |
| 42.5° | 526.5 | 531.3 | 565.6 | 619.1 | 671.0 | 705.0 | 708.6 | 629.6 | 575.8 | 575.1 | 566.2 |
| 45° | 537.0 | 541.9 | 582.9 | 654.9 | 728.2 | 789.5 | 821.3 | 748.4 | 669.4 | 663.6 | 651.2 |
| 47.5° | 535.0 | 539.6 | 582.2 | 668.2 | 762.1 | 845.7 | 909.2 | 868.6 | 777.4 | 763.3 | 746.2 |
| 50° | 509.5 | 512.8 | 557.5 | 646.6 | 753.0 | 869.1 | 969.4 | 978.8 | 899.6 | 880.5 | 854.9 |
| 52.5° | 483.1 | 489.1 | 526.2 | 608.3 | 711.9 | 854.6 | 1005.4 | 1079.1 | 1013.8 | 1000.7 | 967.8 |
| 55° | 468.9 | 473.6 | 503.9 | 574.0 | 668.6 | 805.1 | 1020.3 | 1173.7 | 1152.4 | 1147.1 | 1123.8 |
| 57.5° | 468.3 | 472.9 | 497.1 | 553.2 | 633.3 | 753.6 | 1024.6 | 1319.9 | 1382.5 | 1383.9 | 1377.2 |
| 60° | 491.2 | 495.9 | 516.1 | 563.2 | 622.5 | 709.4 | 1009.2 | 1527.2 | 1665.5 | 1677.7 | 1698.2 |
| 62.5° | 494.4 | 496.6 | 521.0 | 584.6 | 662.0 | 676.4 | 945.5 | 1699.9 | 1860.0 | 1871.3 | 1882.6 |
| 65° | 442.3 | 442.1 | 463.7 | 522.3 | 653.8 | 673.0 | 849.7 | 1721.1 | 1852.2 | 1859.0 | 1873.1 |
| 67.5° | 329.8 | 327.0 | 339.3 | 392.8 | 518.8 | 673.9 | 736.3 | 1561.2 | 1707.8 | 1720.8 | 1725.5 |
| 70° | 170.0 | 174.3 | 182.7 | 215.4 | 329.4 | 542.5 | 632.5 | 1317.2 | 1499.2 | 1504.1 | 1521.0 |
| 72.5° | 69.8 | 68.0 | 73.7 | 90.6 | 164.8 | 358.5 | 523.2 | 1039.5 | 1238.2 | 1234.9 | 1238.0 |
| 75° | 38.9 | 39.4 | 41.1 | 47.2 | 80.1 | 180.0 | 449.5 | 735.9 | 842.1 | 784.4 | 767.0 |
| 77.5° | 31.2 | 31.5 | 31.6 | 32.7 | 43.8 | 96.0 | 345.0 | 484.6 | 423.5 | 393.2 | 381.7 |
| 80° | 22.9 | 24.4 | 26.1 | 26.3 | 30.1 | 54.5 | 189.2 | 408.0 | 357.4 | 332.3 | 311.7 |
| 82.5° | 18.4 | 19.1 | 22.7 | 23.3 | 24.0 | 32.5 | 85.7 | 383.2 | 356.0 | 330.4 | 302.0 |
| 85° | 11.0 | 12.3 | 18.5 | 18.7 | 19.0 | 19.8 | 47.4 | 156.1 | 194.1 | 171.5 | 157.0 |
| 87.5° | 3.9 | 5.0 | 9.2 | 7.7 | 9.8 | 8.1 | 20.8 | 52.3 | 64.4 | 61.2 | 54.2 |
| 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):

| | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | 81° | 82° | 83° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 |
| 2.5° | 223.8 | 223.8 | 224.1 | 223.9 | 223.9 | 223.9 | 223.9 | 223.7 | 223.7 | 223.2 | 223.5 |
| 5° | 229.4 | 229.2 | 229.4 | 229.5 | 229.4 | 229.6 | 229.5 | 229.4 | 229.5 | 229.4 | 229.5 |
| 7.5° | 238.3 | 237.6 | 238.6 | 238.0 | 237.9 | 238.7 | 238.3 | 238.7 | 238.8 | 238.7 | 238.6 |
| 10° | 249.6 | 250.0 | 250.0 | 250.0 | 249.7 | 250.5 | 250.7 | 251.0 | 251.1 | 251.7 | 251.7 |
| 12.5° | 262.5 | 262.7 | 263.2 | 263.1 | 263.4 | 264.3 | 265.0 | 265.2 | 265.3 | 265.7 | 265.2 |
| 15° | 276.5 | 276.7 | 276.7 | 278.0 | 277.6 | 279.0 | 279.4 | 279.4 | 279.5 | 281.2 | 281.3 |
| 17.5° | 288.9 | 288.9 | 290.0 | 290.0 | 291.1 | 291.4 | 292.6 | 292.8 | 293.3 | 294.9 | 295.0 |
| 20° | 299.3 | 299.9 | 300.6 | 301.4 | 301.8 | 302.7 | 303.5 | 304.3 | 305.0 | 306.3 | 306.4 |
| 22.5° | 309.2 | 309.8 | 310.9 | 311.4 | 312.4 | 313.0 | 313.7 | 314.6 | 315.8 | 317.4 | 317.9 |
| 25° | 320.6 | 321.2 | 322.4 | 323.3 | 324.4 | 325.2 | 326.5 | 327.7 | 328.4 | 330.1 | 331.4 |
| 27.5° | 335.1 | 336.8 | 338.5 | 338.9 | 339.7 | 341.7 | 343.4 | 345.0 | 346.6 | 347.4 | 348.9 |
| 30° | 356.3 | 356.3 | 359.8 | 359.8 | 361.3 | 363.1 | 364.3 | 366.1 | 368.9 | 369.7 | 371.6 |
| 32.5° | 384.7 | 385.4 | 386.7 | 390.5 | 393.2 | 394.1 | 394.9 | 397.6 | 399.2 | 401.3 | 403.7 |
| 35° | 425.3 | 426.0 | 426.7 | 430.3 | 433.5 | 434.3 | 435.2 | 436.9 | 439.6 | 443.3 | 442.1 |
| 37.5° | 461.7 | 462.1 | 464.3 | 468.3 | 470.2 | 472.4 | 473.1 | 476.1 | 477.7 | 481.0 | 481.2 |
| 40° | 505.4 | 504.4 | 505.7 | 510.3 | 513.1 | 512.9 | 515.2 | 520.7 | 521.9 | 523.4 | 527.3 |
| 42.5° | 566.4 | 562.8 | 566.7 | 568.3 | 572.4 | 575.1 | 579.5 | 583.3 | 586.0 | 591.8 | 594.6 |
| 45° | 645.3 | 641.6 | 644.8 | 645.5 | 654.1 | 656.7 | 663.4 | 668.4 | 674.2 | 680.8 | 682.8 |
| 47.5° | 735.2 | 728.2 | 724.3 | 728.6 | 739.0 | 743.3 | 749.8 | 754.6 | 760.6 | 764.0 | 762.9 |
| 50° | 839.3 | 822.6 | 814.8 | 812.5 | 819.9 | 826.0 | 836.2 | 838.5 | 841.2 | 841.1 | 841.2 |
| 52.5° | 955.4 | 937.9 | 921.6 | 910.4 | 909.2 | 917.5 | 920.0 | 920.5 | 919.7 | 913.4 | 909.5 |
| 55° | 1107.0 | 1105.7 | 1088.6 | 1065.2 | 1063.6 | 1062.7 | 1048.0 | 1046.2 | 1042.9 | 1033.3 | 1020.0 |
| 57.5° | 1382.0 | 1396.0 | 1384.7 | 1384.1 | 1371.9 | 1363.8 | 1336.9 | 1323.5 | 1309.4 | 1283.4 | 1262.6 |
| 60° | 1700.0 | 1720.2 | 1731.4 | 1736.3 | 1760.2 | 1760.2 | 1738.2 | 1719.3 | 1696.4 | 1656.7 | 1618.0 |
| 62.5° | 1891.5 | 1909.2 | 1925.6 | 1951.4 | 1981.9 | 1995.5 | 1996.6 | 1979.7 | 1950.9 | 1905.6 | 1850.8 |
| 65° | 1879.4 | 1892.5 | 1912.4 | 1942.8 | 1968.0 | 1992.2 | 2008.5 | 2003.4 | 1981.4 | 1936.1 | 1876.4 |
| 67.5° | 1742.1 | 1761.2 | 1787.0 | 1815.0 | 1838.4 | 1861.3 | 1887.6 | 1889.5 | 1883.7 | 1840.6 | 1786.7 |
| 70° | 1530.3 | 1554.8 | 1571.1 | 1606.4 | 1617.0 | 1640.1 | 1666.6 | 1679.3 | 1669.8 | 1636.6 | 1605.0 |
| 72.5° | 1243.3 | 1262.6 | 1265.4 | 1250.1 | 1255.4 | 1261.1 | 1267.5 | 1237.8 | 1226.4 | 1182.1 | 1161.7 |
| 75° | 753.9 | 728.4 | 706.9 | 685.6 | 621.9 | 599.3 | 564.6 | 496.2 | 488.4 | 441.5 | 408.8 |
| 77.5° | 358.5 | 347.8 | 328.4 | 296.0 | 252.8 | 211.4 | 175.4 | 142.6 | 130.3 | 107.3 | 91.4 |
| 80° | 300.2 | 287.3 | 269.9 | 245.8 | 215.6 | 185.5 | 157.0 | 132.7 | 108.1 | 88.1 | 70.4 |
| 82.5° | 275.3 | 253.1 | 228.5 | 207.8 | 186.4 | 166.0 | 146.9 | 124.9 | 111.9 | 90.3 | 73.7 |
| 85° | 139.2 | 121.9 | 98.8 | 83.2 | 70.2 | 57.1 | 49.5 | 42.2 | 37.6 | 30.0 | 26.1 |
| 87.5° | 46.7 | 38.2 | 28.4 | 24.1 | 21.7 | 18.7 | 17.1 | 16.3 | 15.9 | 14.1 | 12.5 |
| 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-F01-E-8030

CANDELA DISTRIBUTION (continued):

| | 84° | 85° | 86° | 87° | 88° | 89° | 90° | 91° | 92° | 93° | 94° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 |
| 2.5° | 223.5 | 223.5 | 223.5 | 223.5 | 223.4 | 223.4 | 223.4 | 223.4 | 223.4 | 223.4 | 223.5 |
| 5° | 229.2 | 229.2 | 229.4 | 229.8 | 228.9 | 229.2 | 229.5 | 229.1 | 229.5 | 229.1 | 229.6 |
| 7.5° | 238.4 | 238.8 | 238.6 | 239.1 | 238.8 | 239.7 | 239.1 | 238.7 | 239.0 | 239.0 | 239.1 |
| 10° | 251.4 | 251.9 | 251.5 | 251.8 | 251.8 | 252.4 | 251.7 | 251.8 | 251.9 | 251.7 | 251.8 |
| 12.5° | 265.7 | 266.0 | 265.9 | 266.7 | 266.3 | 266.7 | 266.3 | 266.8 | 267.1 | 267.4 | 267.4 |
| 15° | 281.3 | 281.6 | 282.5 | 282.3 | 283.2 | 282.9 | 283.0 | 282.3 | 283.7 | 282.9 | 283.2 |
| 17.5° | 295.7 | 295.6 | 296.7 | 297.1 | 297.2 | 297.4 | 297.8 | 297.2 | 297.4 | 297.8 | 297.5 |
| 20° | 306.8 | 307.8 | 308.1 | 309.2 | 310.0 | 310.3 | 310.2 | 310.6 | 311.2 | 310.6 | 310.6 |
| 22.5° | 318.7 | 320.1 | 320.5 | 321.2 | 322.0 | 322.2 | 323.0 | 323.4 | 323.7 | 323.6 | 323.7 |
| 25° | 332.9 | 333.9 | 334.9 | 336.2 | 337.2 | 337.4 | 338.1 | 338.6 | 338.8 | 338.6 | 339.4 |
| 27.5° | 350.3 | 351.6 | 352.8 | 354.5 | 355.6 | 355.9 | 357.4 | 357.4 | 358.3 | 358.7 | 359.0 |
| 30° | 372.8 | 373.2 | 376.4 | 378.0 | 377.6 | 379.6 | 381.7 | 381.5 | 382.5 | 382.8 | 383.5 |
| 32.5° | 405.4 | 405.4 | 408.1 | 410.2 | 412.5 | 411.8 | 415.0 | 414.4 | 416.0 | 416.8 | 416.4 |
| 35° | 444.9 | 446.3 | 448.4 | 449.7 | 452.0 | 453.3 | 455.5 | 456.8 | 457.5 | 457.3 | 455.8 |
| 37.5° | 485.8 | 488.0 | 488.8 | 491.9 | 494.3 | 496.4 | 496.6 | 495.2 | 495.8 | 493.0 | 492.2 |
| 40° | 532.4 | 535.7 | 537.6 | 542.2 | 541.9 | 544.6 | 544.8 | 540.8 | 540.1 | 536.5 | 532.7 |
| 42.5° | 597.7 | 602.1 | 603.7 | 607.1 | 604.3 | 605.6 | 598.6 | 597.0 | 591.4 | 585.5 | 577.0 |
| 45° | 685.6 | 683.4 | 684.3 | 683.4 | 676.0 | 670.5 | 664.8 | 656.6 | 648.4 | 637.1 | 625.0 |
| 47.5° | 762.9 | 764.0 | 756.8 | 752.2 | 740.2 | 732.5 | 722.1 | 707.7 | 697.7 | 682.5 | 666.5 |
| 50° | 838.0 | 825.6 | 815.5 | 804.9 | 794.3 | 780.2 | 764.5 | 751.8 | 737.1 | 718.2 | 698.5 |
| 52.5° | 899.1 | 883.0 | 870.8 | 855.7 | 841.4 | 825.8 | 809.3 | 790.9 | 771.7 | 752.8 | 728.5 |
| 55° | 1007.2 | 983.9 | 968.2 | 941.8 | 925.5 | 903.7 | 890.8 | 867.0 | 840.3 | 815.2 | 789.4 |
| 57.5° | 1239.2 | 1204.4 | 1186.4 | 1171.5 | 1146.1 | 1110.2 | 1087.3 | 1048.2 | 1010.0 | 983.2 | 940.3 |
| 60° | 1588.7 | 1553.3 | 1523.5 | 1488.2 | 1449.3 | 1400.6 | 1378.8 | 1332.7 | 1278.1 | 1233.9 | 1177.2 |
| 62.5° | 1806.5 | 1757.6 | 1709.2 | 1659.8 | 1620.7 | 1582.6 | 1537.6 | 1491.0 | 1436.9 | 1376.9 | 1314.9 |
| 65° | 1815.3 | 1756.6 | 1698.8 | 1648.3 | 1602.6 | 1553.0 | 1510.8 | 1463.6 | 1406.7 | 1344.8 | 1280.5 |
| 67.5° | 1724.1 | 1658.5 | 1596.5 | 1541.2 | 1488.9 | 1442.9 | 1398.8 | 1354.3 | 1293.4 | 1241.6 | 1175.7 |
| 70° | 1542.6 | 1482.7 | 1426.5 | 1363.5 | 1323.5 | 1271.8 | 1228.8 | 1181.9 | 1138.3 | 1089.8 | 1028.1 |
| 72.5° | 1133.0 | 1087.9 | 1023.8 | 997.0 | 975.6 | 920.8 | 888.8 | 884.9 | 857.0 | 798.9 | 752.8 |
| 75° | 421.4 | 358.7 | 339.7 | 351.0 | 332.2 | 338.5 | 336.1 | 322.7 | 323.3 | 313.4 | 301.7 |
| 77.5° | 82.5 | 76.6 | 72.0 | 73.3 | 68.1 | 65.9 | 70.6 | 69.3 | 66.7 | 67.4 | 66.3 |
| 80° | 56.2 | 47.5 | 43.1 | 41.4 | 39.3 | 38.3 | 38.0 | 37.6 | 36.8 | 36.4 | 35.1 |
| 82.5° | 55.3 | 41.1 | 32.5 | 27.9 | 26.2 | 25.4 | 24.7 | 24.5 | 24.2 | 24.1 | 24.5 |
| 85° | 22.0 | 17.8 | 16.3 | 14.9 | 14.5 | 14.1 | 14.1 | 13.9 | 13.8 | 14.1 | 14.6 |
| 87.5° | 10.7 | 9.1 | 8.2 | 7.5 | 7.2 | 7.1 | 7.1 | 7.2 | 7.4 | 7.9 | 9.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P144883

CATALOG NUMBER: LDRC-SL2-F01-E-8030

CANDELA DISTRIBUTION (continued):

| | 95° | 96° | 97° | 98° | 99° | 100° | 101° | 102° | 103° | 104° | 105° |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 |
| 2.5° | 223.2 | 223.4 | 223.1 | 223.2 | 223.1 | 222.8 | 222.7 | 223.1 | 223.0 | 222.8 | 222.8 |
| 5° | 228.9 | 229.5 | 229.2 | 228.9 | 228.9 | 228.8 | 228.8 | 228.8 | 228.7 | 228.8 | 228.4 |
| 7.5° | 238.8 | 238.7 | 238.7 | 238.4 | 238.1 | 238.4 | 238.3 | 237.9 | 238.0 | 237.7 | 237.3 |
| 10° | 251.5 | 251.1 | 251.8 | 251.8 | 251.2 | 251.1 | 250.8 | 250.4 | 250.4 | 250.0 | 250.0 |
| 12.5° | 266.6 | 266.2 | 267.1 | 266.4 | 265.6 | 265.5 | 264.6 | 264.3 | 264.8 | 264.6 | 264.3 |
| 15° | 281.9 | 282.0 | 282.5 | 282.3 | 281.3 | 281.3 | 280.2 | 280.4 | 279.5 | 279.3 | 278.6 |
| 17.5° | 296.8 | 296.9 | 296.5 | 296.5 | 295.8 | 295.4 | 294.2 | 294.3 | 293.7 | 292.6 | 291.8 |
| 20° | 310.2 | 310.0 | 309.1 | 309.9 | 308.5 | 308.2 | 307.1 | 306.0 | 306.3 | 305.2 | 303.5 |
| 22.5° | 323.3 | 323.0 | 322.7 | 322.3 | 321.6 | 321.3 | 320.1 | 319.9 | 318.5 | 316.9 | 315.5 |
| 25° | 338.5 | 338.3 | 337.9 | 338.1 | 336.7 | 336.8 | 334.6 | 334.0 | 333.2 | 331.4 | 330.3 |
| 27.5° | 358.1 | 358.1 | 357.0 | 356.6 | 356.2 | 355.6 | 353.7 | 352.3 | 350.2 | 348.1 | 345.9 |
| 30° | 382.2 | 382.0 | 381.7 | 380.6 | 379.0 | 378.2 | 374.7 | 372.5 | 369.7 | 365.8 | 362.4 |
| 32.5° | 416.6 | 414.3 | 412.3 | 409.8 | 407.3 | 404.7 | 399.2 | 395.5 | 391.0 | 384.7 | 379.4 |
| 35° | 455.0 | 450.9 | 448.8 | 443.7 | 438.9 | 433.6 | 427.1 | 419.4 | 413.3 | 405.1 | 396.4 |
| 37.5° | 486.6 | 483.5 | 478.0 | 472.1 | 465.4 | 455.4 | 448.0 | 439.8 | 429.0 | 420.0 | 409.5 |
| 40° | 525.6 | 518.6 | 510.7 | 501.0 | 491.8 | 480.5 | 470.3 | 458.5 | 445.4 | 432.3 | 418.6 |
| 42.5° | 566.6 | 555.9 | 542.8 | 531.5 | 517.5 | 502.8 | 489.5 | 473.5 | 456.8 | 439.2 | 421.0 |
| 45° | 608.4 | 595.2 | 577.7 | 561.7 | 542.3 | 523.8 | 504.9 | 483.0 | 460.1 | 436.7 | 413.7 |
| 47.5° | 646.7 | 627.3 | 607.6 | 586.0 | 563.7 | 539.8 | 512.9 | 484.2 | 454.1 | 423.3 | 394.6 |
| 50° | 676.8 | 652.6 | 627.6 | 602.7 | 575.4 | 544.4 | 510.6 | 473.1 | 436.0 | 399.1 | 366.1 |
| 52.5° | 703.4 | 676.3 | 645.6 | 614.7 | 580.9 | 542.9 | 500.5 | 456.4 | 411.2 | 370.4 | 333.3 |
| 55° | 755.0 | 720.8 | 680.4 | 640.6 | 597.9 | 550.0 | 497.2 | 443.1 | 391.1 | 346.7 | 307.3 |
| 57.5° | 895.0 | 848.9 | 786.3 | 731.0 | 676.9 | 607.1 | 532.7 | 466.1 | 399.9 | 347.4 | 303.5 |
| 60° | 1115.6 | 1040.5 | 968.9 | 884.6 | 797.1 | 701.3 | 601.6 | 511.8 | 431.1 | 365.2 | 312.4 |
| 62.5° | 1243.5 | 1164.2 | 1072.1 | 970.0 | 856.6 | 739.9 | 625.4 | 520.6 | 432.1 | 360.4 | 301.8 |
| 65° | 1209.0 | 1129.3 | 1028.0 | 923.5 | 802.8 | 683.5 | 569.8 | 469.2 | 383.3 | 317.0 | 261.0 |
| 67.5° | 1106.4 | 1023.1 | 927.9 | 812.0 | 696.6 | 586.1 | 482.4 | 387.7 | 311.7 | 249.8 | 200.4 |
| 70° | 957.2 | 883.0 | 791.4 | 684.5 | 572.6 | 473.2 | 385.9 | 300.4 | 236.2 | 179.5 | 140.5 |
| 72.5° | 710.4 | 644.8 | 587.5 | 498.2 | 416.2 | 338.3 | 267.1 | 209.0 | 153.7 | 116.2 | 89.5 |
| 75° | 298.2 | 276.0 | 266.7 | 234.0 | 203.4 | 166.8 | 125.6 | 100.1 | 81.1 | 69.0 | 54.8 |
| 77.5° | 72.3 | 72.3 | 68.0 | 63.7 | 58.5 | 53.0 | 46.8 | 41.8 | 39.3 | 37.1 | 35.3 |
| 80° | 35.1 | 34.8 | 33.7 | 33.6 | 32.6 | 31.4 | 30.7 | 29.7 | 29.3 | 28.7 | 28.4 |
| 82.5° | 24.7 | 24.5 | 24.1 | 24.7 | 24.5 | 25.1 | 25.4 | 25.5 | 25.5 | 25.6 | 25.8 |
| 85° | 15.6 | 16.2 | 17.3 | 18.7 | 19.9 | 21.5 | 22.9 | 24.0 | 24.8 | 25.5 | 26.1 |
| 87.5° | 9.9 | 11.3 | 12.1 | 14.2 | 16.3 | 18.7 | 21.3 | 22.4 | 23.4 | 23.5 | 22.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P144883

CATALOG NUMBER: LDRC-SL2-F01-E-8030

CANDELA DISTRIBUTION (continued):

| | 106° | 107° | 108° | 109° | 110° | 115° | 125° | 135° | 145° | 155° | 165° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 | 221.7 |
| 2.5° | 222.8 | 222.7 | 223.0 | 222.7 | 222.7 | 222.5 | 222.1 | 221.7 | 221.3 | 221.1 | 220.7 |
| 5° | 228.3 | 228.3 | 228.5 | 228.0 | 228.1 | 227.6 | 226.3 | 224.9 | 223.7 | 222.5 | 221.3 |
| 7.5° | 237.4 | 237.0 | 237.2 | 237.0 | 236.8 | 235.6 | 232.8 | 229.4 | 226.0 | 222.5 | 219.8 |
| 10° | 249.7 | 248.9 | 248.9 | 248.6 | 248.2 | 246.6 | 240.8 | 233.8 | 226.9 | 220.6 | 216.0 |
| 12.5° | 263.4 | 263.5 | 262.4 | 261.7 | 261.0 | 257.8 | 249.0 | 237.9 | 226.9 | 216.8 | 209.4 |
| 15° | 277.6 | 277.4 | 276.2 | 275.8 | 274.2 | 269.5 | 256.3 | 240.0 | 224.2 | 209.4 | 198.4 |
| 17.5° | 290.4 | 289.8 | 288.6 | 287.8 | 286.1 | 279.8 | 261.1 | 239.0 | 217.2 | 197.9 | 184.1 |
| 20° | 302.1 | 301.4 | 300.3 | 298.8 | 297.1 | 288.0 | 262.9 | 234.0 | 206.2 | 184.1 | 170.1 |
| 22.5° | 314.2 | 312.7 | 311.4 | 309.4 | 307.5 | 295.4 | 261.7 | 225.0 | 193.7 | 168.7 | 153.8 |
| 25° | 327.7 | 325.9 | 323.3 | 320.8 | 318.0 | 301.4 | 258.2 | 213.9 | 178.6 | 152.2 | 137.1 |
| 27.5° | 342.4 | 339.7 | 336.2 | 333.0 | 328.6 | 305.9 | 252.2 | 201.5 | 162.2 | 135.7 | 120.1 |
| 30° | 357.8 | 353.0 | 348.6 | 343.8 | 338.1 | 308.0 | 243.6 | 186.2 | 144.1 | 119.0 | 103.4 |
| 32.5° | 372.9 | 366.3 | 359.9 | 352.8 | 345.0 | 307.1 | 231.3 | 168.1 | 126.0 | 103.4 | 90.3 |
| 35° | 388.2 | 378.7 | 369.8 | 360.2 | 350.7 | 302.9 | 214.5 | 148.0 | 108.8 | 90.4 | 81.0 |
| 37.5° | 398.7 | 386.8 | 375.0 | 363.4 | 352.0 | 293.9 | 192.0 | 125.6 | 93.4 | 81.1 | 74.3 |
| 40° | 404.0 | 389.5 | 375.0 | 360.6 | 346.6 | 278.8 | 165.8 | 105.1 | 82.4 | 74.1 | 69.3 |
| 42.5° | 402.4 | 384.5 | 366.5 | 349.5 | 332.2 | 254.9 | 137.4 | 88.2 | 74.7 | 68.7 | 64.4 |
| 45° | 389.8 | 368.3 | 347.8 | 329.8 | 308.2 | 224.1 | 112.9 | 77.8 | 68.8 | 64.2 | 60.2 |
| 47.5° | 365.9 | 342.0 | 316.9 | 296.5 | 276.3 | 188.4 | 93.9 | 71.2 | 63.7 | 59.9 | 55.9 |
| 50° | 335.5 | 307.8 | 282.7 | 260.7 | 240.9 | 155.1 | 81.0 | 65.6 | 59.5 | 56.3 | 52.0 |
| 52.5° | 302.1 | 272.3 | 249.4 | 226.3 | 206.9 | 129.5 | 71.9 | 59.5 | 55.5 | 52.1 | 48.6 |
| 55° | 274.4 | 246.8 | 223.5 | 200.2 | 180.7 | 113.3 | 64.4 | 54.8 | 51.7 | 48.2 | 45.4 |
| 57.5° | 267.0 | 235.5 | 210.1 | 188.1 | 168.1 | 103.4 | 58.9 | 50.4 | 48.4 | 45.7 | 42.6 |
| 60° | 270.1 | 235.4 | 206.9 | 182.8 | 161.8 | 95.5 | 54.9 | 47.5 | 45.8 | 43.5 | 40.3 |
| 62.5° | 259.0 | 222.4 | 193.7 | 168.1 | 148.1 | 85.4 | 52.0 | 46.1 | 45.0 | 41.8 | 38.2 |
| 65° | 220.7 | 187.1 | 159.6 | 137.4 | 120.3 | 71.9 | 49.6 | 47.4 | 46.3 | 40.7 | 36.8 |
| 67.5° | 168.1 | 140.0 | 117.9 | 101.3 | 88.9 | 59.5 | 49.1 | 51.6 | 49.3 | 41.2 | 36.4 |
| 70° | 116.2 | 95.0 | 80.8 | 70.8 | 63.0 | 50.2 | 50.9 | 56.2 | 53.0 | 43.1 | 38.7 |
| 72.5° | 73.7 | 61.6 | 54.6 | 50.9 | 47.1 | 42.4 | 50.4 | 55.6 | 51.3 | 43.3 | 38.7 |
| 75° | 47.2 | 42.2 | 39.9 | 38.5 | 37.3 | 36.9 | 44.5 | 45.7 | 41.2 | 37.6 | 36.1 |
| 77.5° | 33.4 | 32.6 | 32.2 | 32.0 | 32.2 | 33.2 | 36.8 | 34.4 | 30.0 | 30.1 | 30.9 |
| 80° | 28.3 | 28.3 | 28.0 | 28.1 | 28.4 | 28.8 | 29.4 | 25.4 | 23.0 | 24.8 | 27.6 |
| 82.5° | 25.9 | 26.3 | 26.6 | 26.9 | 27.3 | 26.8 | 24.9 | 19.2 | 18.5 | 24.1 | 27.0 |
| 85° | 26.3 | 26.3 | 26.5 | 26.8 | 26.9 | 24.1 | 20.8 | 14.5 | 14.2 | 27.0 | 25.5 |
| 87.5° | 22.6 | 22.3 | 21.3 | 20.6 | 19.6 | 16.6 | 13.8 | 8.1 | 8.4 | 16.7 | 17.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P144883

CATALOG NUMBER: LDRC-SL2-F01-E-8030

CANDELA DISTRIBUTION (continued):

| | 175° | 180° |
|-------|-------|-------|
| 0° | 221.7 | 221.7 |
| 2.5° | 220.6 | 220.6 |
| 5° | 220.6 | 220.6 |
| 7.5° | 218.8 | 218.2 |
| 10° | 213.5 | 212.8 |
| 12.5° | 205.4 | 204.7 |
| 15° | 193.0 | 192.2 |
| 17.5° | 177.5 | 176.1 |
| 20° | 161.4 | 159.4 |
| 22.5° | 145.2 | 143.7 |
| 25° | 128.6 | 127.2 |
| 27.5° | 112.3 | 110.9 |
| 30° | 97.3 | 96.7 |
| 32.5° | 86.1 | 85.6 |
| 35° | 77.9 | 77.6 |
| 37.5° | 72.3 | 72.0 |
| 40° | 67.4 | 67.2 |
| 42.5° | 63.0 | 62.6 |
| 45° | 58.5 | 58.7 |
| 47.5° | 54.1 | 53.9 |
| 50° | 50.2 | 50.2 |
| 52.5° | 47.0 | 46.8 |
| 55° | 44.0 | 43.9 |
| 57.5° | 41.1 | 41.0 |
| 60° | 38.6 | 38.2 |
| 62.5° | 36.2 | 36.0 |
| 65° | 34.7 | 34.6 |
| 67.5° | 33.6 | 33.2 |
| 70° | 33.3 | 32.2 |
| 72.5° | 32.5 | 31.1 |
| 75° | 30.5 | 29.8 |
| 77.5° | 26.9 | 26.1 |
| 80° | 20.8 | 19.2 |
| 82.5° | 17.4 | 15.0 |
| 85° | 12.8 | 11.8 |
| 87.5° | 9.3 | 7.4 |
| 90° | 0.0 | 0.0 |

(END OF REPORT)