

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: P146913

Luminaire Tested: **LDRC-T4-F02-E-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146913
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33696)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRC-T4-F02-E-8030
Description: RC LED ROADWAY SMALL CUTOFF COBRAHEAD LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4094.9 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

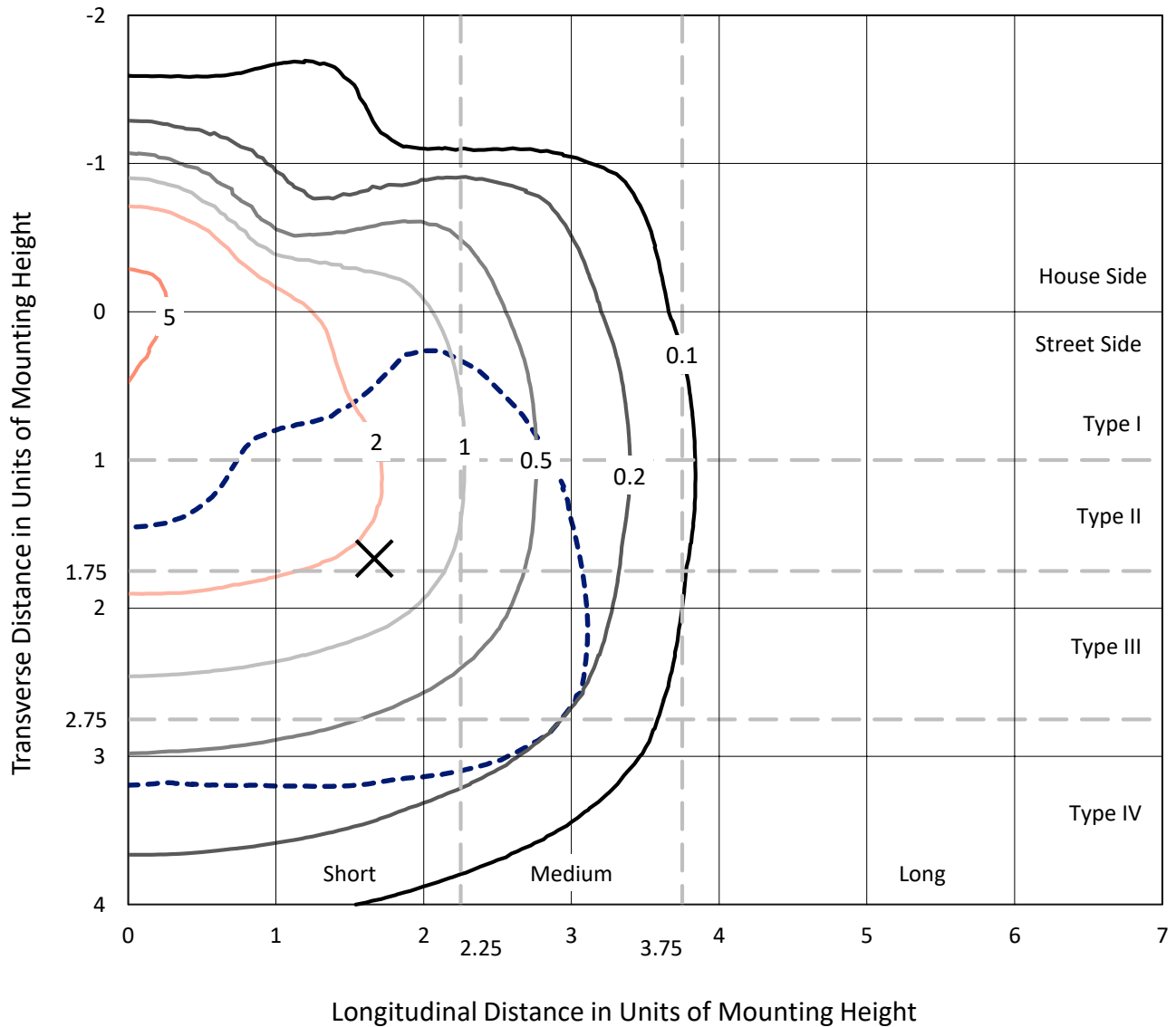
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P146913
 CATALOG NUMBER: LDRC-T4-F02-E-8030

Iso-Footcandle Lines of Horizontal Illumination

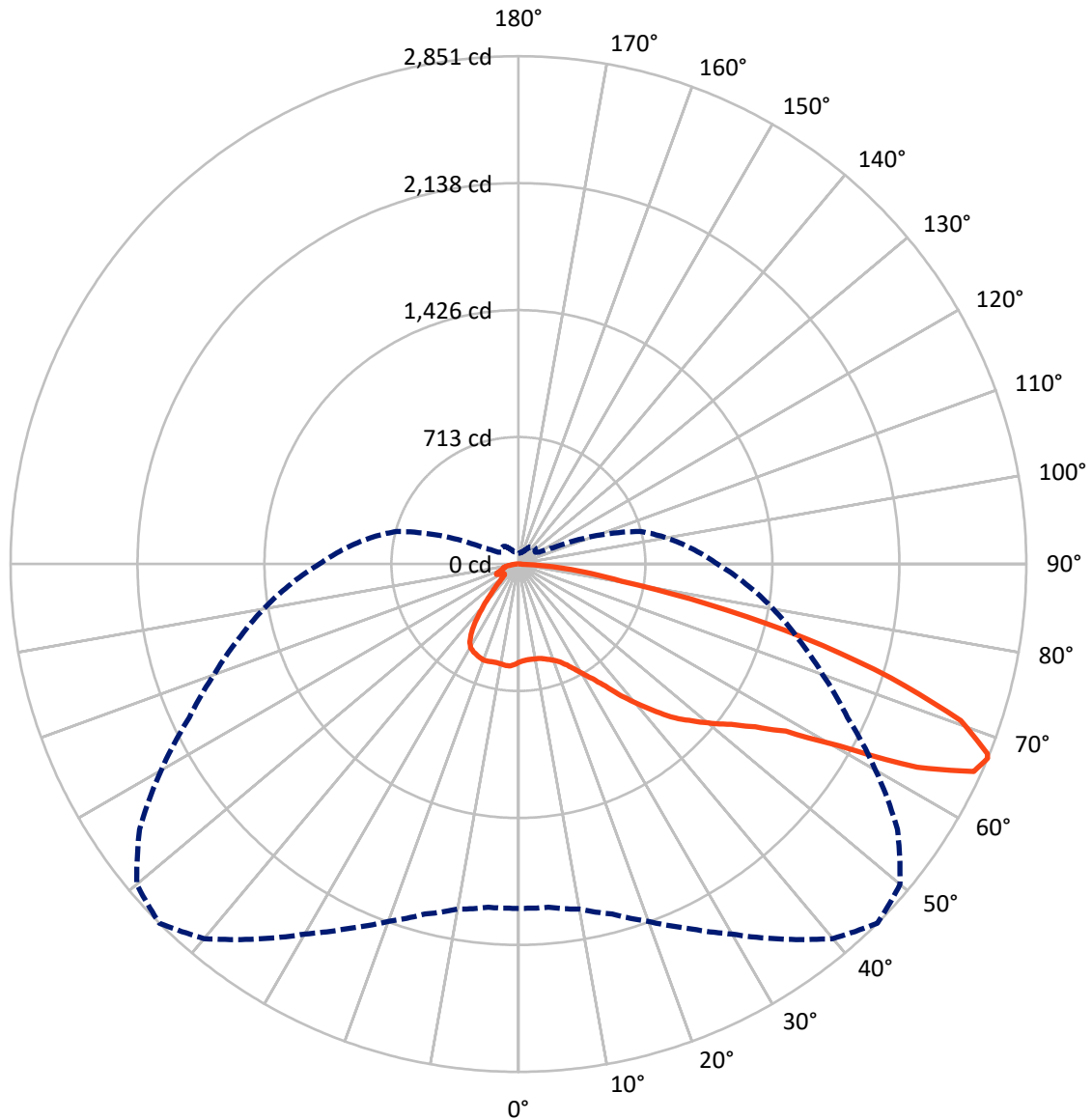
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 829.7 | 0.0 | 829.7 |
| | % Fixture | 20.3 | 0.0 | 20.3 |
| Street Side | Lumens | 3265.2 | 0.0 | 3265.2 |
| | % Fixture | 79.7 | 0.0 | 79.7 |
| Total | Lumens | 4094.9 | 0.0 | 4094.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 53.1 | 1.3 |
| 10°-20° | 159.5 | 3.9 |
| 20°-30° | 271.2 | 6.6 |
| 30°-40° | 407.5 | 10.0 |
| 40°-50° | 529.9 | 12.9 |
| 50°-60° | 727.5 | 17.8 |
| 60°-70° | 1147.7 | 28.0 |
| 70°-80° | 693.4 | 16.9 |
| 80°-90° | 105.0 | 2.6 |
| 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° | 4094.9 | 100.0 |
| 0°-180° | 4094.9 | 100.0 |



REPORT NUMBER: P146913

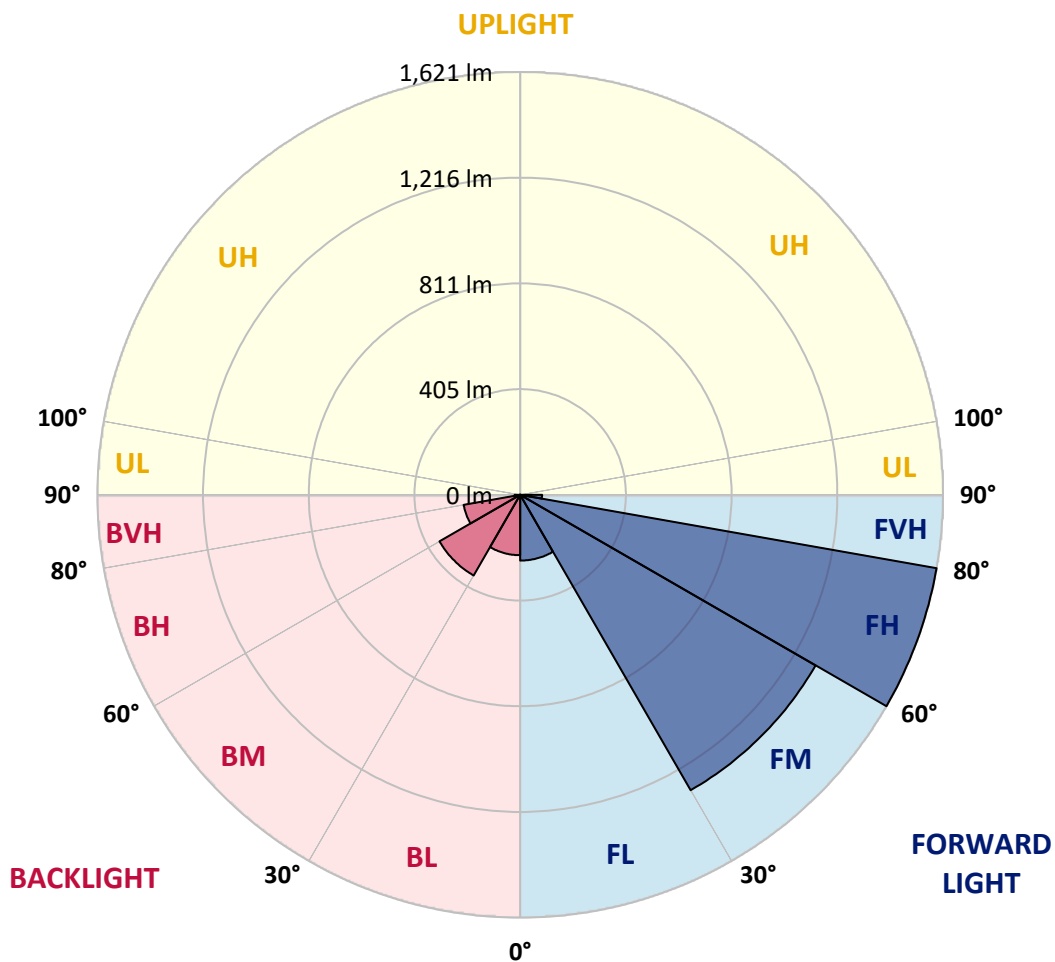
CATALOG NUMBER: LDRC-T4-F02-E-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 252.2 | 6.2 | | | |
| FM | (30°-60°) | 1307.9 | 31.9 | | | |
| FH | (60°-80°) | 1621.2 | 39.6 | | | G1/1800 |
| FVH | (80°-90°) | 83.9 | 2.0 | | | G1/100 |
| BL | (0°-30°) | 231.7 | 5.7 | B1/500 | | |
| BM | (30°-60°) | 357.0 | 8.7 | B1/1000 | | |
| BH | (60°-80°) | 219.9 | 5.4 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 21.2 | 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 IV Short





REPORT NUMBER: P146913

CATALOG NUMBER: LDRC-T4-F02-E-8030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 551.3 | 551.3 | 551.3 | 551.3 | 551.3 | 551.3 | 551.3 | 551.3 | 551.3 | 551.3 | 551.3 |
| 2.5° | 539.0 | 540.1 | 539.3 | 539.3 | 539.6 | 539.8 | 540.4 | 541.5 | 541.8 | 543.5 | 543.7 |
| 5° | 528.1 | 528.4 | 528.4 | 528.7 | 530.4 | 531.7 | 533.1 | 535.1 | 536.8 | 539.8 | 541.8 |
| 7.5° | 524.2 | 525.3 | 525.1 | 525.6 | 527.3 | 528.7 | 530.4 | 533.1 | 537.3 | 539.8 | 542.6 |
| 10° | 530.6 | 531.5 | 530.6 | 530.9 | 531.2 | 532.6 | 533.1 | 535.1 | 538.4 | 540.7 | 543.2 |
| 12.5° | 545.4 | 545.4 | 544.6 | 544.0 | 543.2 | 543.5 | 542.3 | 542.1 | 543.7 | 544.0 | 544.3 |
| 15° | 564.9 | 567.1 | 564.4 | 562.1 | 561.0 | 559.9 | 556.3 | 554.9 | 554.6 | 552.1 | 549.6 |
| 17.5° | 584.7 | 585.3 | 583.6 | 581.1 | 579.4 | 576.9 | 573.8 | 571.0 | 567.7 | 563.8 | 558.8 |
| 20° | 606.7 | 607.0 | 604.8 | 601.1 | 599.2 | 596.1 | 592.2 | 587.5 | 583.3 | 577.2 | 571.6 |
| 22.5° | 637.4 | 637.1 | 632.6 | 629.6 | 626.8 | 623.2 | 617.6 | 611.2 | 604.5 | 597.2 | 589.4 |
| 25° | 672.5 | 672.5 | 669.4 | 664.4 | 663.0 | 657.7 | 651.6 | 644.1 | 637.1 | 626.8 | 617.3 |
| 27.5° | 712.6 | 712.9 | 707.3 | 704.5 | 701.5 | 695.9 | 691.7 | 685.9 | 676.4 | 666.1 | 656.3 |
| 30° | 760.3 | 758.9 | 754.4 | 748.6 | 747.5 | 743.0 | 737.1 | 733.0 | 721.3 | 714.0 | 703.1 |
| 32.5° | 805.4 | 807.7 | 806.5 | 799.9 | 801.0 | 796.5 | 791.5 | 788.4 | 776.2 | 769.2 | 759.2 |
| 35° | 872.9 | 874.8 | 876.5 | 874.0 | 875.4 | 872.9 | 868.7 | 860.6 | 850.6 | 841.4 | 827.4 |
| 37.5° | 925.3 | 927.2 | 928.3 | 934.5 | 943.4 | 952.0 | 955.9 | 951.7 | 952.3 | 938.4 | 919.7 |
| 40° | 968.2 | 972.9 | 979.6 | 991.3 | 1009.2 | 1025.6 | 1034.5 | 1041.5 | 1045.1 | 1032.0 | 1007.8 |
| 42.5° | 1011.1 | 1016.1 | 1025.3 | 1044.0 | 1068.5 | 1092.2 | 1110.9 | 1132.3 | 1136.2 | 1132.9 | 1112.3 |
| 45° | 1056.0 | 1061.8 | 1073.3 | 1094.4 | 1123.1 | 1154.1 | 1184.2 | 1214.5 | 1229.9 | 1232.4 | 1207.3 |
| 47.5° | 1110.0 | 1118.4 | 1129.0 | 1153.0 | 1180.8 | 1215.7 | 1253.3 | 1292.3 | 1316.3 | 1316.3 | 1287.3 |
| 50° | 1177.5 | 1187.0 | 1195.9 | 1219.8 | 1247.7 | 1283.7 | 1327.1 | 1370.6 | 1403.2 | 1405.2 | 1370.1 |
| 52.5° | 1272.0 | 1273.4 | 1278.6 | 1300.7 | 1324.9 | 1365.0 | 1406.3 | 1456.7 | 1494.4 | 1496.0 | 1455.6 |
| 55° | 1386.8 | 1386.8 | 1392.9 | 1411.3 | 1433.9 | 1467.0 | 1509.7 | 1565.7 | 1605.3 | 1613.9 | 1562.1 |
| 57.5° | 1537.8 | 1543.4 | 1546.5 | 1567.9 | 1583.3 | 1618.4 | 1654.1 | 1715.1 | 1765.5 | 1771.1 | 1718.4 |
| 60° | 1783.6 | 1773.1 | 1790.1 | 1809.0 | 1845.0 | 1870.6 | 1931.4 | 1992.7 | 2057.0 | 2072.4 | 2015.8 |
| 62.5° | 2025.8 | 2037.3 | 2058.2 | 2092.4 | 2154.0 | 2211.4 | 2298.4 | 2391.5 | 2491.5 | 2512.1 | 2469.0 |
| 65° | 2040.9 | 2047.8 | 2076.8 | 2135.9 | 2220.1 | 2322.4 | 2442.2 | 2582.4 | 2731.5 | 2808.7 | 2736.2 |
| 67° | 1932.7 | 1934.7 | 1967.6 | 2034.7 | 2135.6 | 2256.9 | 2398.7 | 2569.8 | 2744.9 | 2851.0 | 2797.0 |
| 67.5° | 1898.5 | 1902.1 | 1934.4 | 2003.0 | 2105.0 | 2229.0 | 2373.6 | 2549.5 | 2728.7 | 2839.6 | 2790.8 |
| 70° | 1697.2 | 1697.2 | 1732.1 | 1801.2 | 1896.8 | 2017.7 | 2169.1 | 2346.6 | 2541.4 | 2634.8 | 2593.2 |
| 72.5° | 1444.8 | 1435.6 | 1474.8 | 1527.2 | 1605.3 | 1710.9 | 1832.7 | 1972.9 | 2119.5 | 2187.5 | 2171.0 |
| 75° | 1050.1 | 1067.4 | 1087.7 | 1126.5 | 1194.2 | 1277.5 | 1348.9 | 1474.0 | 1589.1 | 1664.4 | 1644.6 |
| 77.5° | 573.0 | 579.7 | 636.0 | 659.1 | 718.5 | 780.3 | 858.7 | 946.4 | 1037.0 | 1084.4 | 1065.2 |
| 80° | 340.6 | 353.7 | 387.1 | 414.7 | 446.7 | 493.8 | 550.7 | 569.9 | 587.8 | 586.7 | 551.8 |
| 82.5° | 215.2 | 231.0 | 267.3 | 291.0 | 307.7 | 335.0 | 365.9 | 390.2 | 395.5 | 369.3 | 328.9 |
| 85° | 34.8 | 57.7 | 150.8 | 177.2 | 187.8 | 202.6 | 225.5 | 235.8 | 220.2 | 192.3 | 199.3 |
| 87.5° | 13.7 | 16.4 | 46.0 | 58.2 | 61.6 | 32.3 | 56.0 | 65.8 | 33.4 | 17.0 | 38.5 |
| 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: P146913

CATALOG NUMBER: LDRC-T4-F02-E-8030

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0° | 551.3 | 551.3 | 551.3 | 551.3 | 551.3 | 551.3 | 551.3 | 551.3 | 551.3 | 551.3 | 551.3 |
| 2.5° | 545.4 | 546.8 | 548.2 | 549.9 | 550.4 | 551.8 | 554.3 | 554.0 | 556.0 | 556.8 | 558.2 |
| 5° | 544.3 | 547.4 | 549.6 | 552.7 | 553.8 | 556.8 | 560.2 | 561.3 | 563.8 | 565.7 | 567.4 |
| 7.5° | 546.5 | 549.9 | 552.7 | 556.3 | 558.8 | 561.3 | 563.8 | 566.9 | 569.1 | 570.5 | 571.6 |
| 10° | 547.4 | 551.0 | 554.3 | 557.4 | 560.2 | 562.1 | 564.9 | 567.4 | 569.7 | 570.5 | 570.8 |
| 12.5° | 547.6 | 550.1 | 553.5 | 556.8 | 559.3 | 561.8 | 563.8 | 566.6 | 568.3 | 568.5 | 568.0 |
| 15° | 549.9 | 550.1 | 552.4 | 556.3 | 558.8 | 561.3 | 562.7 | 564.1 | 565.2 | 564.4 | 563.5 |
| 17.5° | 556.6 | 554.6 | 554.6 | 556.6 | 557.9 | 559.1 | 559.3 | 559.1 | 557.9 | 556.3 | 554.9 |
| 20° | 567.4 | 563.5 | 560.5 | 559.3 | 557.1 | 554.3 | 550.7 | 547.4 | 543.2 | 541.2 | 540.9 |
| 22.5° | 584.4 | 578.6 | 573.0 | 567.4 | 560.2 | 552.1 | 543.7 | 536.5 | 530.6 | 527.6 | 527.8 |
| 25° | 613.4 | 604.8 | 598.4 | 588.6 | 576.9 | 565.5 | 554.6 | 544.8 | 537.9 | 532.3 | 533.4 |
| 27.5° | 652.4 | 642.7 | 637.1 | 625.9 | 612.6 | 598.1 | 585.3 | 571.9 | 561.8 | 554.9 | 556.3 |
| 30° | 698.1 | 695.3 | 686.1 | 675.0 | 662.5 | 646.0 | 626.8 | 606.7 | 588.6 | 577.2 | 574.9 |
| 32.5° | 753.3 | 750.2 | 740.2 | 730.7 | 714.6 | 696.5 | 671.4 | 639.6 | 611.2 | 589.4 | 580.0 |
| 35° | 821.3 | 813.8 | 801.5 | 792.3 | 774.2 | 750.8 | 718.5 | 675.6 | 632.4 | 599.7 | 576.1 |
| 37.5° | 906.0 | 887.4 | 867.0 | 843.1 | 816.3 | 787.9 | 750.5 | 700.4 | 646.8 | 600.6 | 558.5 |
| 40° | 986.9 | 956.8 | 923.0 | 885.1 | 852.5 | 818.2 | 779.5 | 722.1 | 656.6 | 594.7 | 532.0 |
| 42.5° | 1076.9 | 1030.1 | 984.3 | 932.2 | 889.3 | 848.6 | 804.3 | 737.4 | 658.6 | 578.8 | 497.7 |
| 45° | 1163.5 | 1103.4 | 1042.0 | 977.7 | 923.0 | 877.9 | 827.4 | 750.5 | 658.0 | 562.1 | 463.7 |
| 47.5° | 1240.7 | 1168.8 | 1093.0 | 1020.6 | 957.0 | 907.4 | 852.2 | 768.4 | 665.5 | 557.4 | 441.2 |
| 50° | 1312.9 | 1229.9 | 1141.0 | 1060.4 | 991.3 | 940.6 | 883.7 | 796.5 | 688.7 | 568.3 | 437.8 |
| 52.5° | 1387.3 | 1297.0 | 1195.3 | 1108.6 | 1036.5 | 977.7 | 920.2 | 832.5 | 721.0 | 590.6 | 445.4 |
| 55° | 1484.3 | 1380.7 | 1272.2 | 1176.1 | 1093.3 | 1030.1 | 963.7 | 875.9 | 755.8 | 616.5 | 459.6 |
| 57.5° | 1628.7 | 1507.5 | 1384.3 | 1280.9 | 1185.3 | 1106.4 | 1033.7 | 933.1 | 813.5 | 655.5 | 490.8 |
| 60° | 1887.9 | 1753.5 | 1610.9 | 1475.7 | 1365.6 | 1273.4 | 1180.8 | 1056.0 | 920.0 | 744.1 | 562.4 |
| 62.5° | 2311.2 | 2125.3 | 1928.0 | 1750.2 | 1598.9 | 1474.0 | 1343.6 | 1193.6 | 1035.1 | 851.7 | 670.8 |
| 65° | 2565.7 | 2309.3 | 2058.2 | 1851.9 | 1673.0 | 1513.0 | 1355.3 | 1194.2 | 1040.6 | 880.4 | 719.6 |
| 67° | 2597.2 | 2315.9 | 2038.1 | 1818.5 | 1626.7 | 1452.6 | 1281.4 | 1116.7 | 979.3 | 845.0 | 706.2 |
| 67.5° | 2587.7 | 2302.6 | 2019.1 | 1797.3 | 1603.6 | 1435.0 | 1266.7 | 1098.1 | 964.3 | 830.0 | 696.2 |
| 70° | 2401.0 | 2122.0 | 1841.6 | 1625.9 | 1440.3 | 1267.8 | 1108.6 | 939.8 | 836.4 | 740.2 | 624.6 |
| 72.5° | 1992.7 | 1775.0 | 1540.1 | 1360.3 | 1200.1 | 1050.7 | 910.8 | 769.5 | 686.4 | 618.4 | 537.0 |
| 75° | 1477.6 | 1278.1 | 1079.4 | 971.2 | 847.0 | 727.4 | 619.3 | 514.7 | 482.7 | 466.5 | 418.6 |
| 77.5° | 912.4 | 733.2 | 583.6 | 485.8 | 386.3 | 302.7 | 240.8 | 195.9 | 204.3 | 237.7 | 253.1 |
| 80° | 454.3 | 335.5 | 259.7 | 206.5 | 166.9 | 134.9 | 98.9 | 72.5 | 86.7 | 102.8 | 116.5 |
| 82.5° | 273.4 | 216.0 | 170.8 | 144.6 | 117.6 | 90.9 | 64.4 | 49.1 | 54.3 | 73.0 | 80.3 |
| 85° | 169.7 | 136.0 | 108.7 | 90.9 | 75.2 | 55.7 | 36.5 | 36.2 | 38.5 | 48.5 | 55.5 |
| 87.5° | 49.9 | 33.7 | 26.8 | 27.9 | 30.9 | 25.6 | 19.2 | 16.4 | 20.3 | 27.9 | 31.2 |
| 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: P146913

CATALOG NUMBER: LDRC-T4-F02-E-8030

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 551.3 | 551.3 | 551.3 | 551.3 | 551.3 | 551.3 | 551.3 | 551.3 | 551.3 | 551.3 | 551.3 |
| 2.5° | 558.5 | 560.5 | 561.3 | 561.6 | 561.8 | 563.5 | 563.5 | 565.2 | 565.7 | 565.7 | 566.3 |
| 5° | 569.1 | 571.0 | 571.9 | 572.2 | 572.7 | 573.6 | 573.3 | 574.4 | 574.9 | 574.7 | 574.7 |
| 7.5° | 573.0 | 573.6 | 573.6 | 574.4 | 575.2 | 574.4 | 573.8 | 574.4 | 574.1 | 574.4 | 574.4 |
| 10° | 571.6 | 571.0 | 571.0 | 570.5 | 571.3 | 569.7 | 569.7 | 570.2 | 569.9 | 570.5 | 571.3 |
| 12.5° | 568.3 | 568.0 | 567.1 | 566.9 | 568.0 | 566.9 | 567.1 | 568.0 | 568.5 | 569.7 | 571.0 |
| 15° | 563.5 | 562.7 | 562.7 | 563.8 | 566.6 | 567.4 | 568.5 | 569.9 | 570.2 | 570.8 | 571.3 |
| 17.5° | 555.4 | 556.8 | 560.2 | 564.1 | 569.4 | 571.3 | 571.9 | 571.0 | 568.3 | 566.0 | 563.8 |
| 20° | 544.3 | 550.4 | 559.1 | 567.4 | 573.8 | 573.6 | 569.9 | 564.6 | 557.9 | 553.2 | 550.1 |
| 22.5° | 534.8 | 546.8 | 560.2 | 570.2 | 574.4 | 569.1 | 560.7 | 552.7 | 544.8 | 537.9 | 531.7 |
| 25° | 541.5 | 552.9 | 564.4 | 570.5 | 570.2 | 561.0 | 549.9 | 540.9 | 530.4 | 520.6 | 510.3 |
| 27.5° | 563.2 | 570.2 | 573.6 | 571.6 | 565.7 | 553.5 | 541.2 | 528.7 | 515.0 | 503.3 | 491.3 |
| 30° | 578.0 | 578.0 | 574.7 | 566.9 | 556.6 | 542.9 | 527.8 | 511.7 | 495.5 | 481.9 | 468.2 |
| 32.5° | 573.3 | 562.4 | 552.7 | 542.1 | 530.4 | 515.6 | 498.3 | 480.7 | 462.4 | 446.5 | 434.8 |
| 35° | 552.7 | 529.2 | 508.9 | 493.8 | 481.6 | 464.0 | 444.0 | 423.9 | 408.8 | 398.0 | 391.3 |
| 37.5° | 515.9 | 478.5 | 449.0 | 430.6 | 411.6 | 393.5 | 370.4 | 361.2 | 347.8 | 341.1 | 338.6 |
| 40° | 471.3 | 416.6 | 379.6 | 355.9 | 335.8 | 313.3 | 297.6 | 291.8 | 286.8 | 285.4 | 284.3 |
| 42.5° | 420.0 | 351.7 | 307.7 | 283.2 | 258.9 | 242.5 | 235.5 | 231.9 | 231.0 | 231.0 | 232.4 |
| 45° | 366.8 | 285.7 | 234.9 | 215.2 | 195.1 | 186.4 | 184.8 | 183.1 | 183.4 | 182.5 | 183.1 |
| 47.5° | 325.5 | 229.4 | 177.2 | 159.1 | 148.8 | 146.0 | 144.1 | 143.5 | 143.5 | 142.1 | 140.5 |
| 50° | 304.1 | 191.7 | 139.1 | 124.9 | 119.0 | 117.1 | 117.1 | 115.9 | 113.7 | 112.3 | 108.7 |
| 52.5° | 298.5 | 172.2 | 120.4 | 108.1 | 103.1 | 101.4 | 99.8 | 98.1 | 94.8 | 91.7 | 87.5 |
| 55° | 302.9 | 166.1 | 114.5 | 103.1 | 97.5 | 95.6 | 94.2 | 91.4 | 86.7 | 82.2 | 77.5 |
| 57.5° | 321.6 | 170.0 | 116.8 | 104.5 | 99.5 | 98.1 | 96.7 | 92.5 | 86.7 | 80.3 | 75.0 |
| 60° | 372.6 | 188.4 | 126.2 | 112.0 | 107.9 | 108.1 | 106.2 | 100.9 | 92.5 | 83.3 | 75.5 |
| 62.5° | 438.4 | 214.0 | 138.5 | 122.6 | 122.1 | 124.9 | 124.9 | 115.7 | 102.0 | 88.1 | 77.5 |
| 65° | 476.0 | 222.1 | 140.2 | 124.0 | 128.8 | 136.8 | 136.3 | 124.0 | 105.3 | 88.1 | 76.6 |
| 67° | 466.5 | 213.5 | 133.2 | 115.9 | 121.5 | 130.7 | 129.6 | 117.9 | 100.3 | 84.4 | 74.4 |
| 67.5° | 459.0 | 210.7 | 131.5 | 114.0 | 119.6 | 127.1 | 127.1 | 115.4 | 98.1 | 83.3 | 73.6 |
| 70° | 404.1 | 186.2 | 123.2 | 106.5 | 106.5 | 108.4 | 107.0 | 98.7 | 87.0 | 76.6 | 70.2 |
| 72.5° | 336.9 | 162.8 | 116.5 | 101.2 | 95.9 | 94.8 | 92.8 | 87.0 | 79.4 | 72.2 | 66.6 |
| 75° | 261.1 | 144.1 | 111.2 | 95.6 | 88.6 | 86.1 | 84.2 | 79.7 | 73.9 | 67.7 | 63.0 |
| 77.5° | 182.8 | 123.5 | 104.2 | 90.9 | 83.3 | 81.4 | 78.3 | 73.3 | 68.6 | 63.3 | 58.8 |
| 80° | 113.4 | 102.0 | 90.9 | 81.9 | 74.1 | 71.3 | 67.4 | 63.0 | 59.1 | 56.0 | 52.7 |
| 82.5° | 80.8 | 75.0 | 67.7 | 63.0 | 54.9 | 46.5 | 49.9 | 50.2 | 47.7 | 45.7 | 44.9 |
| 85° | 54.1 | 48.8 | 45.1 | 41.0 | 36.2 | 32.6 | 33.4 | 36.0 | 36.2 | 35.4 | 35.4 |
| 87.5° | 29.5 | 25.1 | 24.2 | 25.1 | 21.7 | 20.6 | 20.9 | 23.1 | 23.4 | 23.4 | 23.7 |
| 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: P146913

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CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 551.3 | 551.3 | 551.3 | 551.3 |
| 2.5° | 566.6 | 567.4 | 567.1 | 567.7 |
| 5° | 575.2 | 575.8 | 575.5 | 575.8 |
| 7.5° | 573.8 | 574.9 | 575.5 | 574.7 |
| 10° | 571.6 | 573.3 | 574.4 | 574.4 |
| 12.5° | 572.2 | 574.9 | 576.6 | 576.6 |
| 15° | 571.6 | 573.8 | 574.4 | 574.4 |
| 17.5° | 563.0 | 563.0 | 563.2 | 562.1 |
| 20° | 547.9 | 546.2 | 545.7 | 543.7 |
| 22.5° | 526.5 | 522.6 | 520.0 | 518.6 |
| 25° | 501.9 | 495.8 | 491.9 | 489.7 |
| 27.5° | 481.6 | 476.3 | 472.4 | 470.2 |
| 30° | 459.0 | 452.9 | 450.6 | 449.0 |
| 32.5° | 426.4 | 420.5 | 418.9 | 417.5 |
| 35° | 384.0 | 382.1 | 377.6 | 374.6 |
| 37.5° | 335.0 | 332.5 | 330.8 | 329.7 |
| 40° | 283.7 | 284.0 | 282.6 | 280.1 |
| 42.5° | 232.4 | 235.2 | 232.4 | 231.9 |
| 45° | 182.5 | 185.6 | 185.6 | 186.4 |
| 47.5° | 140.7 | 140.2 | 141.3 | 141.6 |
| 50° | 106.5 | 104.8 | 104.2 | 103.4 |
| 52.5° | 84.4 | 82.5 | 81.4 | 80.0 |
| 55° | 74.4 | 72.2 | 71.1 | 70.8 |
| 57.5° | 71.1 | 68.3 | 66.6 | 66.3 |
| 60° | 70.2 | 66.3 | 64.1 | 63.5 |
| 62.5° | 70.2 | 65.5 | 63.0 | 62.1 |
| 65° | 69.4 | 64.7 | 62.4 | 61.6 |
| 67° | 68.3 | 64.1 | 61.9 | 61.3 |
| 67.5° | 67.7 | 63.8 | 61.9 | 61.0 |
| 70° | 66.3 | 63.0 | 60.8 | 59.9 |
| 72.5° | 63.3 | 60.5 | 58.2 | 57.7 |
| 75° | 59.9 | 57.4 | 56.0 | 55.5 |
| 77.5° | 56.0 | 53.8 | 52.1 | 50.7 |
| 80° | 50.2 | 47.7 | 45.1 | 44.6 |
| 82.5° | 42.6 | 39.9 | 37.9 | 37.6 |
| 85° | 34.3 | 32.0 | 29.8 | 29.8 |
| 87.5° | 24.0 | 22.6 | 21.2 | 19.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)