

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: P144627

Luminaire Tested: **LDRV-RW-F01-E-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144627
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33700)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRV-RW-F01-E-7060
Description: RIDGEVIEW LED AREA/SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (7) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2544.4 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type I - Short - Full 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

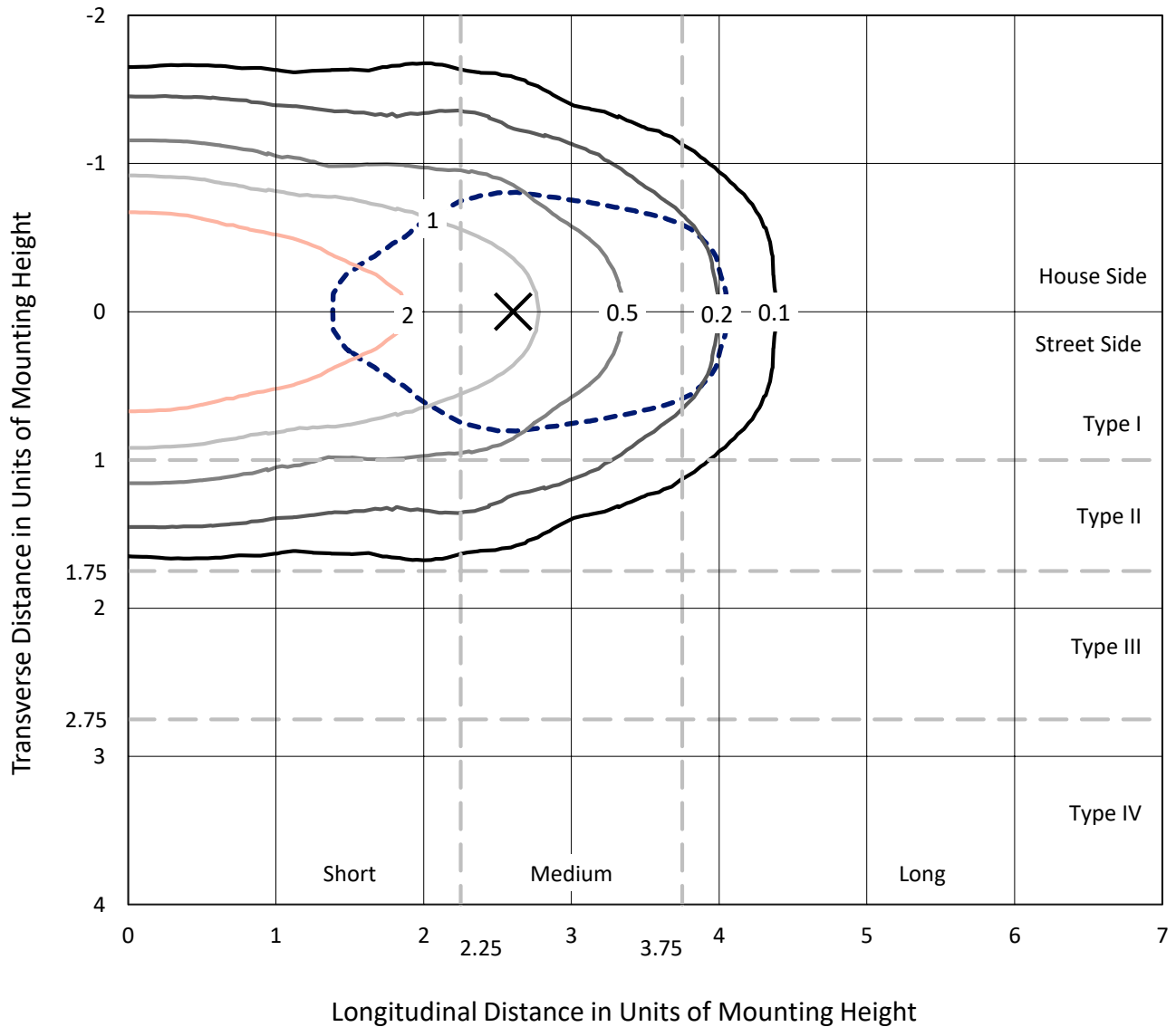


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CATALOG NUMBER: LDRV-RW-F01-E-7060

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

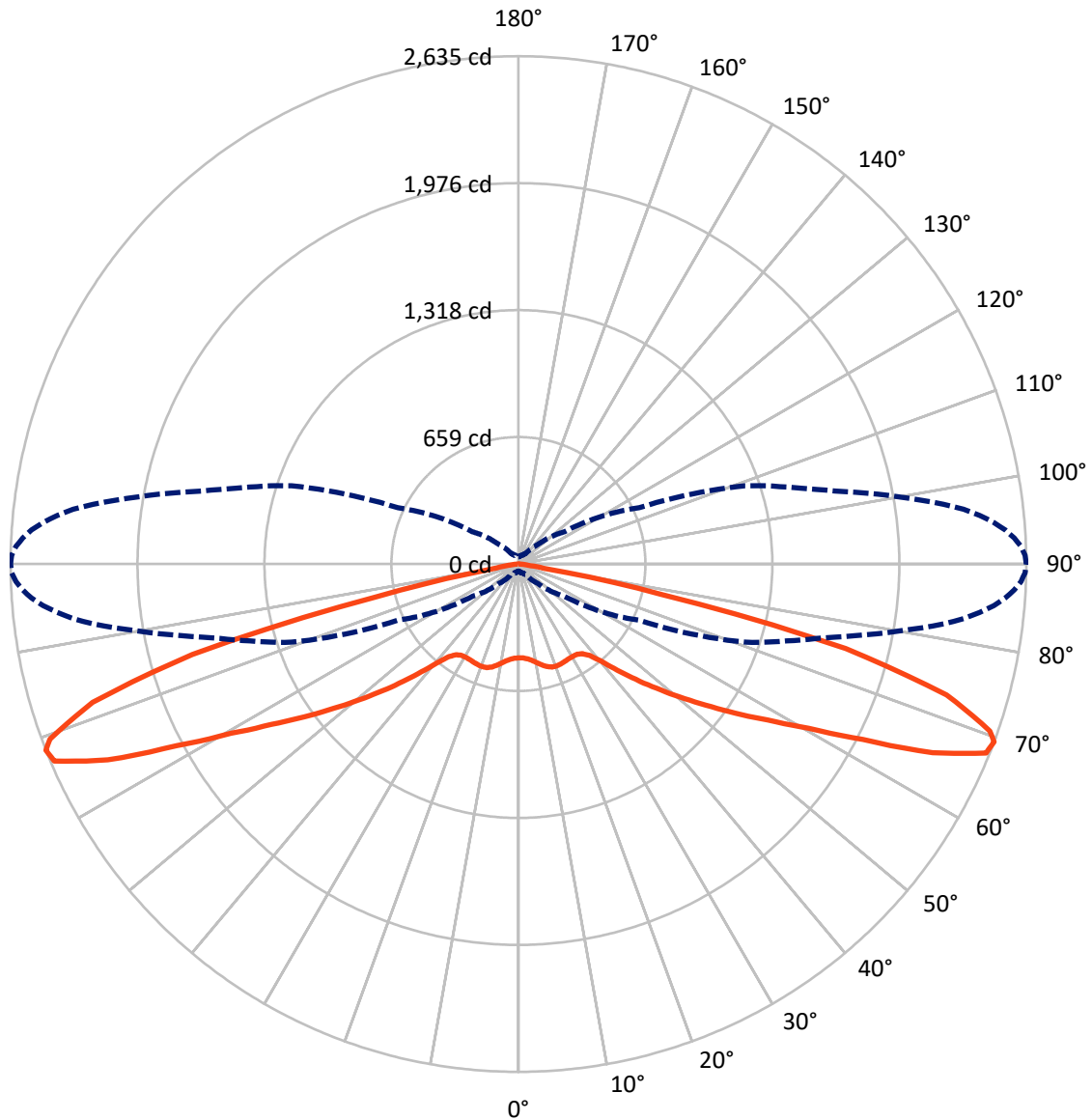


Based on 10 foot mounting height. Maximum calculated value = 5 fc
 Type I - Short - Full Cutoff

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CATALOG NUMBER: LDRV-RW-F01-E-7060

Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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CATALOG NUMBER: LDRV-RW-F01-E-7060

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1272.2 | 0.0 | 1272.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1272.2 | 0.0 | 1272.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 2544.4 | 0.0 | 2544.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 47.7 | 1.9 |
| 10°-20° | 150.1 | 5.9 |
| 20°-30° | 243.2 | 9.6 |
| 30°-40° | 302.9 | 11.9 |
| 40°-50° | 377.1 | 14.8 |
| 50°-60° | 462.7 | 18.2 |
| 60°-70° | 570.7 | 22.4 |
| 70°-80° | 354.8 | 13.9 |
| 80°-90° | 35.2 | 1.4 |
| 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° | 2544.4 | 100.0 |
| 0°-180° | 2544.4 | 100.0 |



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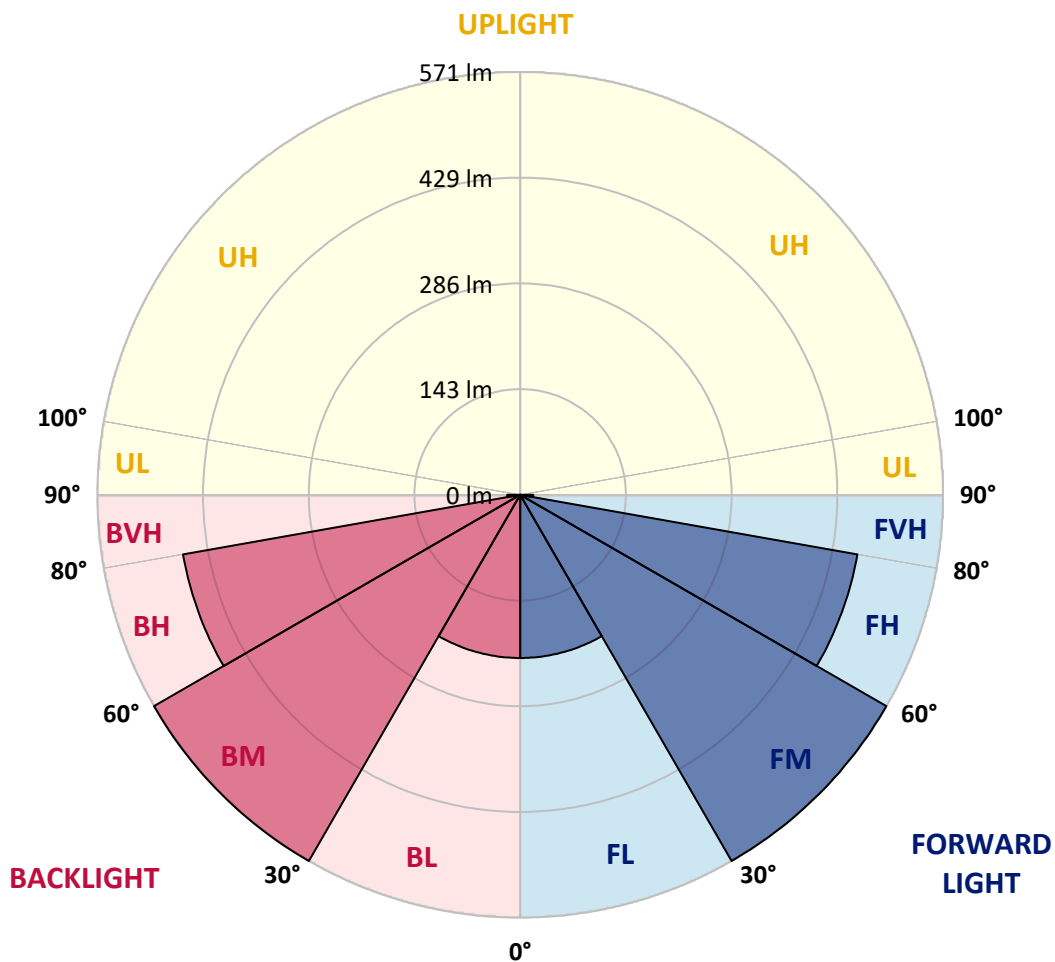
CATALOG NUMBER: LDRV-RW-F01-E-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 220.5 | 8.7 | | | |
| FM (30°-60°) | 571.4 | 22.5 | | | |
| FH (60°-80°) | 462.7 | 18.2 | | | G0/660 |
| FVH (80°-90°) | 17.6 | 0.7 | | | G1/100 |
| BL (0°-30°) | 220.5 | 8.7 | B1/500 | | |
| BM (30°-60°) | 571.4 | 22.5 | B1/1000 | | |
| BH (60°-80°) | 462.7 | 18.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 17.6 | 0.7 | | | 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 I Short





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CATALOG NUMBER: LDRV-RW-F01-E-7060

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 67° | 68° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 0° | 487.2 | 487.2 | 487.2 | 487.2 | 487.2 | 487.2 | 487.2 | 487.2 | 487.2 | 487.2 | 487.2 |
| 2.5° | 488.5 | 488.0 | 489.0 | 489.8 | 489.6 | 489.7 | 489.4 | 488.9 | 488.9 | 489.0 | 489.0 |
| 5° | 492.3 | 491.8 | 492.7 | 493.4 | 493.7 | 494.3 | 494.4 | 494.2 | 494.3 | 494.4 | 494.5 |
| 7.5° | 496.9 | 496.4 | 497.6 | 498.6 | 500.6 | 501.6 | 502.6 | 503.6 | 503.7 | 503.8 | 503.8 |
| 10° | 501.2 | 501.0 | 502.7 | 505.0 | 508.1 | 510.4 | 513.3 | 516.2 | 516.4 | 516.6 | 516.8 |
| 12.5° | 504.0 | 504.0 | 506.8 | 510.7 | 516.1 | 521.0 | 525.8 | 530.6 | 531.0 | 531.5 | 531.9 |
| 15° | 503.8 | 504.2 | 508.3 | 515.6 | 525.0 | 533.5 | 539.5 | 544.7 | 545.1 | 545.5 | 546.0 |
| 17.5° | 500.4 | 500.4 | 506.4 | 518.0 | 532.6 | 545.2 | 553.0 | 555.8 | 556.0 | 556.2 | 556.3 |
| 20° | 490.6 | 491.3 | 499.6 | 516.6 | 538.5 | 556.0 | 563.4 | 562.2 | 562.0 | 561.7 | 561.4 |
| 22.5° | 473.9 | 474.8 | 486.0 | 508.6 | 539.6 | 563.0 | 570.6 | 565.2 | 564.4 | 563.6 | 562.8 |
| 25° | 450.8 | 452.2 | 464.3 | 493.2 | 532.1 | 565.0 | 575.2 | 566.7 | 565.4 | 564.2 | 562.9 |
| 27.5° | 423.8 | 424.6 | 438.8 | 469.2 | 514.8 | 558.2 | 577.4 | 569.7 | 568.1 | 566.5 | 564.9 |
| 30° | 392.8 | 394.6 | 409.5 | 441.2 | 490.3 | 542.4 | 576.5 | 575.4 | 573.6 | 571.8 | 570.1 |
| 32.5° | 361.9 | 363.4 | 378.0 | 412.3 | 462.1 | 520.6 | 572.3 | 584.2 | 582.7 | 581.2 | 579.7 |
| 35° | 330.7 | 332.5 | 347.6 | 384.4 | 434.0 | 495.6 | 565.6 | 596.6 | 596.0 | 595.3 | 594.7 |
| 37.5° | 303.4 | 304.5 | 319.4 | 357.6 | 409.5 | 472.8 | 556.9 | 613.3 | 614.8 | 616.2 | 617.6 |
| 40° | 275.4 | 276.6 | 292.2 | 331.3 | 386.8 | 453.4 | 548.8 | 634.3 | 638.3 | 642.3 | 646.2 |
| 42.5° | 248.7 | 249.7 | 264.8 | 303.8 | 361.7 | 436.5 | 544.0 | 659.7 | 667.3 | 675.0 | 682.6 |
| 45° | 221.2 | 221.9 | 236.0 | 274.0 | 333.0 | 416.8 | 542.7 | 688.2 | 699.3 | 710.3 | 721.3 |
| 47.5° | 194.2 | 195.8 | 210.4 | 246.4 | 300.2 | 388.8 | 540.8 | 719.8 | 734.5 | 749.1 | 763.7 |
| 50° | 168.4 | 170.2 | 185.0 | 219.3 | 268.6 | 355.3 | 531.4 | 755.7 | 773.5 | 791.3 | 809.2 |
| 52.5° | 142.0 | 143.8 | 158.8 | 191.4 | 239.2 | 317.8 | 505.0 | 793.3 | 814.5 | 835.7 | 856.9 |
| 55° | 114.0 | 114.6 | 130.0 | 162.8 | 209.8 | 286.2 | 462.8 | 827.8 | 853.4 | 879.1 | 904.8 |
| 57.5° | 82.8 | 85.1 | 100.3 | 130.8 | 179.8 | 258.4 | 409.3 | 845.4 | 877.4 | 909.4 | 941.5 |
| 60° | 59.8 | 61.3 | 74.6 | 98.6 | 145.8 | 231.0 | 361.8 | 832.5 | 875.3 | 918.0 | 960.8 |
| 62.5° | 47.2 | 49.0 | 59.2 | 74.3 | 112.8 | 200.9 | 330.8 | 797.2 | 857.2 | 917.2 | 977.1 |
| 65° | 41.8 | 43.3 | 52.8 | 60.4 | 86.2 | 170.0 | 311.3 | 762.2 | 843.2 | 924.1 | 1005.1 |
| 67.5° | 38.2 | 39.8 | 48.1 | 53.2 | 71.2 | 150.1 | 302.0 | 735.8 | 829.3 | 922.8 | 1016.3 |
| 69° | 36.5 | 38.0 | 45.6 | 50.3 | 67.2 | 143.4 | 292.2 | 691.0 | 783.8 | 876.5 | 969.2 |
| 70° | 35.6 | 36.8 | 43.8 | 48.6 | 65.6 | 137.8 | 277.5 | 637.8 | 727.3 | 816.8 | 906.2 |
| 72.5° | 33.0 | 33.8 | 39.7 | 44.0 | 60.0 | 110.0 | 209.4 | 450.0 | 525.9 | 601.7 | 677.5 |
| 75° | 29.2 | 30.2 | 35.4 | 39.5 | 45.8 | 66.1 | 131.0 | 261.2 | 313.2 | 365.2 | 417.1 |
| 77.5° | 25.1 | 26.2 | 30.5 | 36.9 | 36.8 | 43.0 | 79.6 | 150.0 | 175.2 | 200.5 | 225.8 |
| 80° | 21.5 | 22.5 | 26.4 | 36.5 | 30.8 | 34.0 | 59.3 | 111.9 | 122.1 | 132.2 | 142.4 |
| 82.5° | 16.8 | 17.7 | 22.1 | 30.2 | 24.7 | 25.9 | 45.2 | 101.9 | 108.8 | 115.7 | 122.6 |
| 85° | 10.6 | 10.9 | 16.1 | 20.8 | 17.6 | 15.7 | 29.1 | 78.4 | 83.4 | 88.4 | 93.5 |
| 87.5° | 4.2 | 5.2 | 7.8 | 7.5 | 7.5 | 6.2 | 9.4 | 28.3 | 30.9 | 33.5 | 36.0 |
| 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: LDRV-RW-F01-E-7060

CANDELA DISTRIBUTION (continued):

| | 69° | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 487.2 | 487.2 | 487.2 | 487.2 | 487.2 | 487.2 | 487.2 | 487.2 | 487.2 | 487.2 | 487.2 |
| 2.5° | 489.1 | 489.1 | 489.0 | 488.7 | 489.0 | 488.6 | 488.8 | 489.0 | 488.9 | 489.0 | 488.8 |
| 5° | 494.6 | 494.8 | 494.8 | 494.3 | 494.5 | 494.6 | 494.6 | 494.5 | 494.6 | 494.8 | 494.4 |
| 7.5° | 503.9 | 504.0 | 504.2 | 504.6 | 504.4 | 504.4 | 504.6 | 504.4 | 504.2 | 504.8 | 504.4 |
| 10° | 517.0 | 517.2 | 517.2 | 518.0 | 517.6 | 517.9 | 518.7 | 518.6 | 518.2 | 518.8 | 518.7 |
| 12.5° | 532.4 | 532.8 | 532.8 | 532.6 | 533.0 | 533.2 | 534.0 | 534.2 | 534.4 | 535.4 | 535.0 |
| 15° | 546.4 | 546.8 | 547.1 | 547.3 | 547.9 | 548.0 | 548.6 | 549.0 | 549.2 | 549.5 | 549.7 |
| 17.5° | 556.4 | 556.6 | 557.1 | 556.8 | 557.7 | 557.6 | 558.2 | 558.4 | 558.7 | 559.1 | 559.4 |
| 20° | 561.2 | 561.0 | 561.0 | 560.8 | 560.8 | 561.0 | 561.0 | 561.4 | 561.2 | 561.6 | 562.0 |
| 22.5° | 562.0 | 561.2 | 560.7 | 560.0 | 559.8 | 559.4 | 559.3 | 559.5 | 558.9 | 559.4 | 559.8 |
| 25° | 561.6 | 560.3 | 559.4 | 558.4 | 557.5 | 556.6 | 556.1 | 556.0 | 555.5 | 555.6 | 556.0 |
| 27.5° | 563.3 | 561.7 | 560.4 | 558.6 | 557.5 | 556.3 | 555.2 | 554.3 | 553.5 | 553.3 | 553.3 |
| 30° | 568.3 | 566.5 | 565.0 | 562.9 | 561.0 | 559.5 | 558.0 | 556.8 | 555.2 | 554.4 | 553.8 |
| 32.5° | 578.2 | 576.7 | 574.6 | 572.7 | 570.5 | 568.6 | 566.6 | 564.8 | 562.9 | 561.2 | 560.5 |
| 35° | 594.0 | 593.4 | 592.2 | 590.9 | 588.8 | 586.4 | 584.8 | 582.5 | 580.4 | 578.0 | 577.2 |
| 37.5° | 619.1 | 620.6 | 619.9 | 619.0 | 618.4 | 617.6 | 615.3 | 613.9 | 612.4 | 610.4 | 610.0 |
| 40° | 650.2 | 654.2 | 658.2 | 660.8 | 659.8 | 663.0 | 663.5 | 663.8 | 662.5 | 664.2 | 664.5 |
| 42.5° | 690.3 | 697.9 | 705.1 | 710.3 | 716.4 | 721.1 | 727.0 | 729.5 | 734.3 | 739.3 | 742.2 |
| 45° | 732.4 | 743.4 | 753.7 | 764.5 | 775.0 | 786.7 | 798.0 | 805.9 | 817.5 | 826.2 | 831.6 |
| 47.5° | 778.3 | 793.0 | 805.4 | 821.4 | 836.8 | 850.4 | 870.2 | 886.0 | 900.2 | 913.6 | 927.8 |
| 50° | 827.0 | 844.8 | 860.0 | 879.7 | 898.3 | 919.8 | 943.0 | 963.2 | 985.4 | 1006.8 | 1025.8 |
| 52.5° | 878.1 | 899.2 | 919.8 | 940.0 | 962.6 | 986.0 | 1011.1 | 1040.2 | 1066.8 | 1099.1 | 1122.2 |
| 55° | 930.4 | 956.1 | 978.0 | 999.1 | 1023.1 | 1049.0 | 1078.8 | 1113.3 | 1147.1 | 1182.4 | 1217.5 |
| 57.5° | 973.6 | 1005.6 | 1029.6 | 1054.2 | 1080.0 | 1105.7 | 1142.7 | 1178.0 | 1220.8 | 1264.2 | 1308.1 |
| 60° | 1003.5 | 1046.3 | 1075.4 | 1106.6 | 1136.4 | 1167.6 | 1207.5 | 1252.2 | 1305.8 | 1358.3 | 1417.9 |
| 62.5° | 1037.1 | 1097.1 | 1137.9 | 1179.5 | 1215.8 | 1253.2 | 1306.6 | 1358.1 | 1426.9 | 1487.4 | 1562.4 |
| 65° | 1086.1 | 1167.0 | 1227.0 | 1283.0 | 1331.9 | 1382.9 | 1446.2 | 1510.4 | 1589.2 | 1672.8 | 1766.9 |
| 67.5° | 1109.8 | 1203.3 | 1281.8 | 1351.0 | 1413.4 | 1478.3 | 1543.6 | 1619.7 | 1708.4 | 1809.1 | 1912.5 |
| 69° | 1061.9 | 1154.6 | 1244.8 | 1314.8 | 1380.5 | 1449.8 | 1519.8 | 1596.5 | 1683.9 | 1788.3 | 1897.9 |
| 70° | 995.6 | 1085.1 | 1181.0 | 1251.2 | 1317.4 | 1389.4 | 1460.6 | 1538.1 | 1621.8 | 1729.3 | 1840.1 |
| 72.5° | 753.4 | 829.2 | 922.4 | 996.5 | 1066.2 | 1138.8 | 1212.2 | 1279.4 | 1364.2 | 1467.8 | 1569.8 |
| 75° | 469.1 | 521.0 | 604.8 | 679.2 | 735.2 | 797.6 | 866.4 | 930.1 | 1015.2 | 1088.6 | 1186.8 |
| 77.5° | 251.0 | 276.2 | 325.1 | 378.5 | 409.6 | 440.0 | 484.8 | 519.4 | 555.2 | 597.7 | 638.3 |
| 80° | 152.6 | 162.8 | 179.4 | 191.0 | 186.6 | 174.2 | 170.1 | 157.8 | 162.2 | 154.6 | 149.0 |
| 82.5° | 129.5 | 136.4 | 146.6 | 153.4 | 148.4 | 128.5 | 106.0 | 89.2 | 77.4 | 66.0 | 56.0 |
| 85° | 98.5 | 103.5 | 108.8 | 111.9 | 111.6 | 101.8 | 80.8 | 62.6 | 48.8 | 37.8 | 31.4 |
| 87.5° | 38.6 | 41.2 | 45.0 | 44.4 | 46.4 | 46.7 | 36.5 | 28.2 | 20.1 | 13.6 | 11.9 |
| 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: LDRV-RW-F01-E-7060

CANDELA DISTRIBUTION (continued):

| | 80° | 81° | 82° | 83° | 84° | 85° | 86° | 87° | 88° | 89° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 487.2 | 487.2 | 487.2 | 487.2 | 487.2 | 487.2 | 487.2 | 487.2 | 487.2 | 487.2 | 487.2 |
| 2.5° | 488.4 | 488.4 | 488.4 | 488.6 | 488.7 | 488.8 | 488.7 | 488.8 | 488.5 | 488.3 | 488.4 |
| 5° | 494.4 | 494.2 | 494.4 | 494.6 | 494.6 | 494.4 | 494.8 | 494.9 | 494.7 | 494.4 | 494.5 |
| 7.5° | 504.8 | 504.8 | 504.6 | 505.4 | 504.7 | 504.8 | 505.2 | 505.2 | 505.0 | 505.1 | 505.2 |
| 10° | 519.2 | 519.1 | 519.3 | 519.8 | 519.0 | 519.6 | 520.1 | 520.2 | 519.8 | 519.8 | 519.9 |
| 12.5° | 535.1 | 535.8 | 535.8 | 536.2 | 536.2 | 536.6 | 536.7 | 536.8 | 537.1 | 537.2 | 536.7 |
| 15° | 550.4 | 550.8 | 551.2 | 551.6 | 551.1 | 551.7 | 552.4 | 552.4 | 552.3 | 552.6 | 552.1 |
| 17.5° | 559.8 | 560.2 | 560.8 | 560.6 | 560.8 | 561.2 | 561.7 | 561.8 | 562.0 | 562.0 | 562.1 |
| 20° | 562.7 | 563.0 | 563.3 | 563.6 | 563.8 | 564.3 | 564.6 | 564.9 | 565.0 | 564.9 | 565.0 |
| 22.5° | 560.3 | 560.7 | 561.4 | 561.6 | 561.7 | 562.4 | 562.8 | 563.0 | 563.2 | 563.4 | 563.1 |
| 25° | 556.2 | 556.6 | 557.3 | 557.6 | 557.7 | 558.4 | 558.8 | 559.4 | 559.6 | 559.7 | 559.7 |
| 27.5° | 553.4 | 553.7 | 554.2 | 554.5 | 554.6 | 555.4 | 556.0 | 556.4 | 556.4 | 556.5 | 556.5 |
| 30° | 553.6 | 553.6 | 554.2 | 554.2 | 554.2 | 554.8 | 555.2 | 555.4 | 555.6 | 555.6 | 555.7 |
| 32.5° | 559.4 | 559.1 | 559.6 | 558.8 | 558.9 | 558.8 | 558.8 | 559.0 | 558.8 | 558.9 | 558.6 |
| 35° | 576.0 | 575.0 | 574.2 | 574.6 | 573.4 | 571.7 | 572.7 | 572.2 | 571.3 | 571.4 | 571.6 |
| 37.5° | 607.6 | 606.7 | 607.5 | 606.8 | 607.0 | 604.7 | 605.2 | 603.1 | 602.5 | 603.3 | 601.1 |
| 40° | 663.8 | 663.4 | 665.0 | 664.4 | 664.8 | 665.4 | 666.1 | 664.0 | 660.6 | 663.7 | 663.8 |
| 42.5° | 741.8 | 745.6 | 747.1 | 749.2 | 751.5 | 750.6 | 752.6 | 753.2 | 749.4 | 752.2 | 752.9 |
| 45° | 839.5 | 843.6 | 848.4 | 849.8 | 853.5 | 854.0 | 855.6 | 856.0 | 852.6 | 852.9 | 853.7 |
| 47.5° | 942.0 | 949.4 | 955.0 | 958.9 | 962.8 | 963.6 | 964.4 | 962.8 | 963.0 | 963.8 | 963.8 |
| 50° | 1042.6 | 1058.5 | 1068.4 | 1076.2 | 1082.8 | 1079.4 | 1082.3 | 1082.6 | 1083.6 | 1081.4 | 1082.7 |
| 52.5° | 1148.4 | 1169.5 | 1186.1 | 1199.1 | 1203.1 | 1215.4 | 1210.4 | 1214.3 | 1216.9 | 1213.1 | 1215.6 |
| 55° | 1251.8 | 1281.8 | 1308.4 | 1327.2 | 1340.5 | 1353.1 | 1355.0 | 1365.0 | 1363.9 | 1367.7 | 1366.0 |
| 57.5° | 1350.0 | 1392.0 | 1430.2 | 1457.9 | 1477.0 | 1496.1 | 1509.1 | 1520.1 | 1521.2 | 1532.1 | 1525.9 |
| 60° | 1468.8 | 1527.4 | 1576.4 | 1617.9 | 1646.0 | 1674.4 | 1696.8 | 1714.9 | 1719.0 | 1737.8 | 1731.6 |
| 62.5° | 1629.2 | 1700.6 | 1763.2 | 1812.0 | 1874.4 | 1904.4 | 1948.2 | 1975.5 | 1992.5 | 1997.2 | 2005.9 |
| 65° | 1854.6 | 1947.6 | 2030.3 | 2108.2 | 2178.4 | 2227.2 | 2277.7 | 2318.4 | 2351.0 | 2348.2 | 2361.6 |
| 67.5° | 2022.0 | 2128.1 | 2227.6 | 2321.0 | 2396.6 | 2459.3 | 2517.4 | 2561.4 | 2590.5 | 2609.1 | 2617.0 |
| 69° | 2004.6 | 2118.4 | 2228.2 | 2328.0 | 2406.0 | 2476.0 | 2532.6 | 2575.8 | 2609.2 | 2629.4 | 2635.3 |
| 70° | 1946.6 | 2063.6 | 2178.0 | 2275.9 | 2355.4 | 2432.2 | 2489.9 | 2538.1 | 2569.9 | 2591.9 | 2595.3 |
| 72.5° | 1683.8 | 1810.4 | 1911.7 | 2018.5 | 2095.0 | 2172.9 | 2209.1 | 2268.8 | 2310.2 | 2323.6 | 2323.4 |
| 75° | 1270.0 | 1375.6 | 1464.6 | 1543.5 | 1612.0 | 1664.8 | 1681.8 | 1724.4 | 1758.8 | 1758.4 | 1755.1 |
| 77.5° | 683.8 | 708.8 | 742.0 | 753.2 | 774.3 | 774.0 | 752.8 | 759.5 | 778.9 | 741.2 | 753.4 |
| 80° | 146.8 | 144.5 | 142.6 | 141.6 | 141.0 | 141.2 | 142.0 | 137.2 | 141.9 | 139.8 | 130.8 |
| 82.5° | 51.1 | 49.9 | 48.7 | 49.6 | 48.9 | 49.4 | 49.3 | 49.9 | 49.8 | 49.6 | 48.5 |
| 85° | 28.8 | 27.7 | 27.1 | 27.6 | 26.6 | 25.8 | 25.2 | 24.9 | 24.8 | 24.2 | 23.9 |
| 87.5° | 11.0 | 10.9 | 10.8 | 10.4 | 9.3 | 8.6 | 8.0 | 7.0 | 6.6 | 6.0 | 5.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)