

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: P144580

Luminaire Tested: **LDRC-RW-E01-E**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144580
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: LDRC-RW-E01-E
Description: RC LED ROADWAY SMALL CUTOFF COBRAHEAD LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3003.7 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

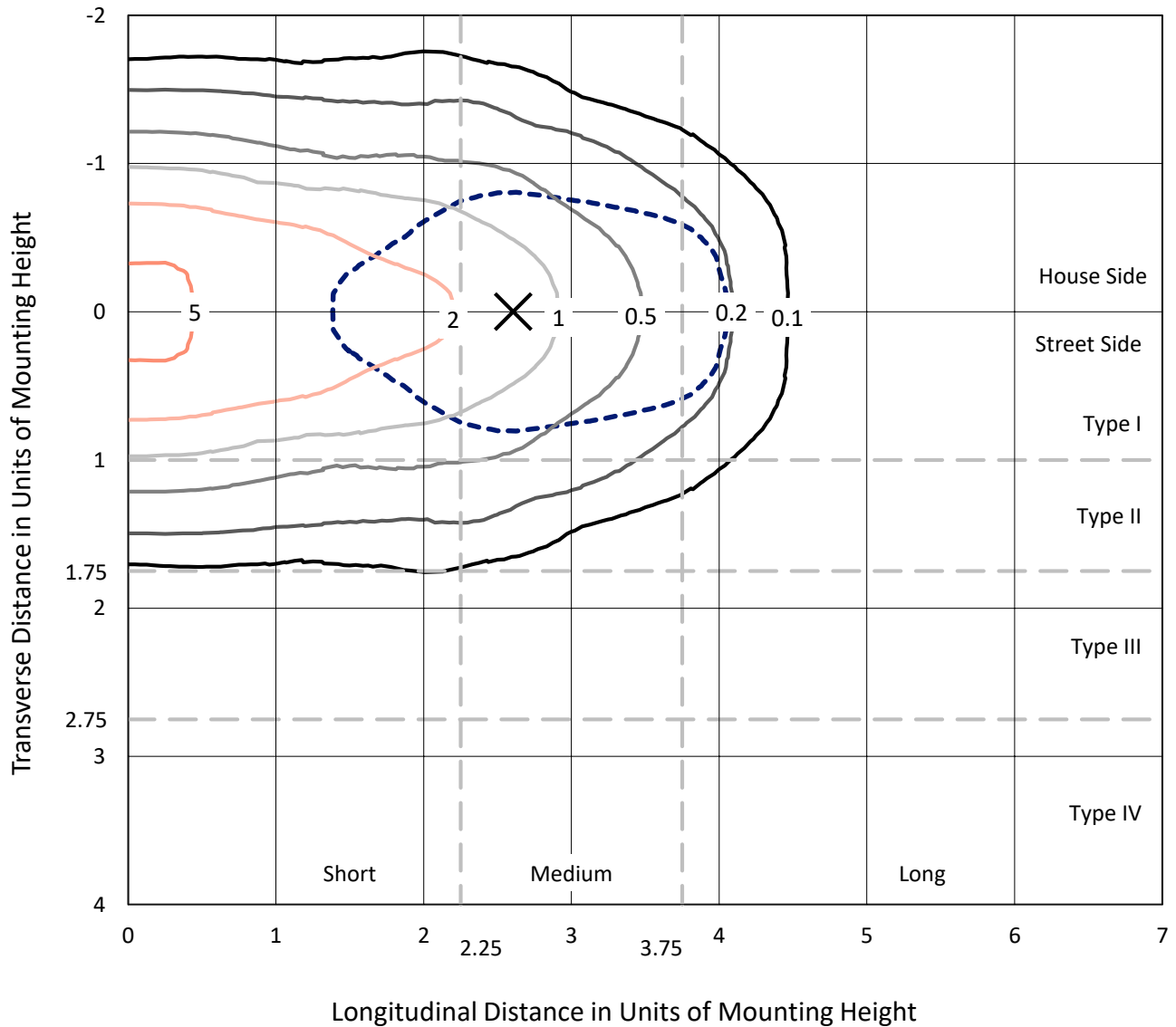
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P144580
 CATALOG NUMBER: LDRC-RW-E01-E

Iso-Footcandle Lines of Horizontal Illumination

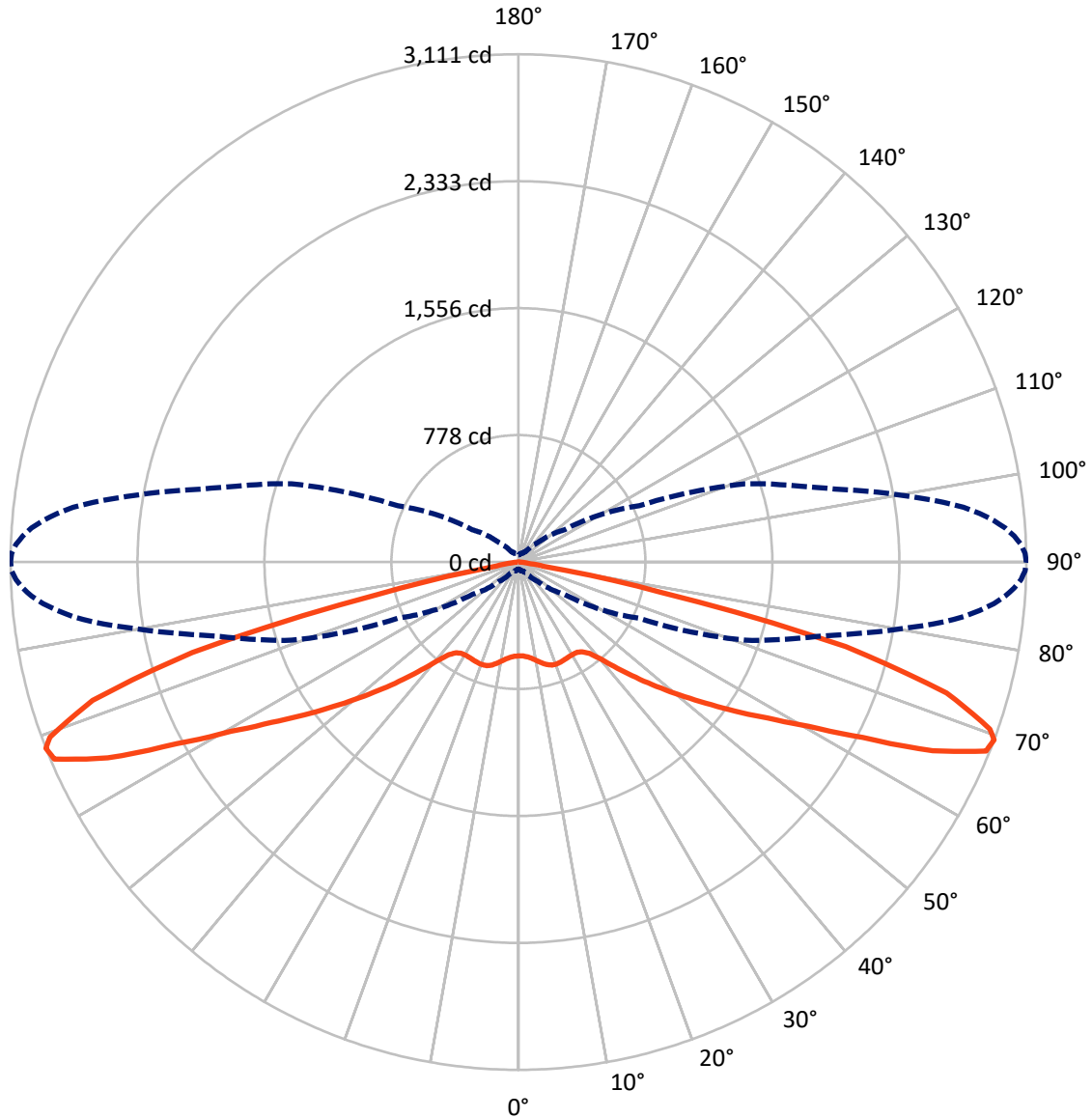
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.9 fc
 Type I - Short - Full Cutoff

REPORT NUMBER: P144580
CATALOG NUMBER: LDRC-RW-E01-E

Luminous Intensity Polar Plot



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

REPORT NUMBER: P144580

CATALOG NUMBER: LDRC-RW-E01-E

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1501.8 | 0.0 | 1501.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1501.8 | 0.0 | 1501.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3003.7 | 0.0 | 3003.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 56.3 | 1.9 |
| 10°-20° | 177.2 | 5.9 |
| 20°-30° | 287.0 | 9.6 |
| 30°-40° | 357.6 | 11.9 |
| 40°-50° | 445.2 | 14.8 |
| 50°-60° | 546.2 | 18.2 |
| 60°-70° | 673.7 | 22.4 |
| 70°-80° | 418.8 | 13.9 |
| 80°-90° | 41.6 | 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° | 3003.7 | 100.0 |
| 0°-180° | 3003.7 | 100.0 |



REPORT NUMBER: P144580

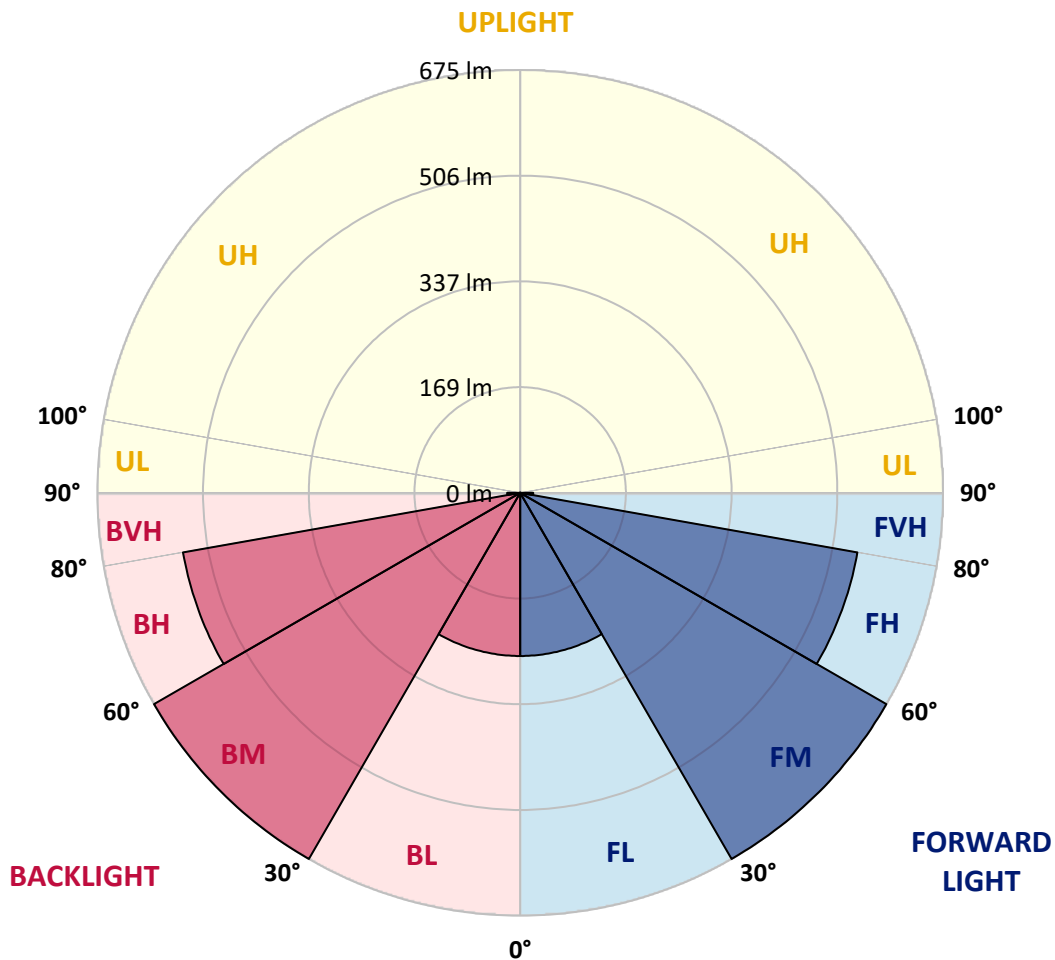
CATALOG NUMBER: LDRC-RW-E01-E

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 260.3 | 8.7 | | | |
| FM | (30°-60°) | 674.5 | 22.5 | | | |
| FH | (60°-80°) | 546.2 | 18.2 | | | G0/660 |
| FVH | (80°-90°) | 20.8 | 0.7 | | | G1/100 |
| BL | (0°-30°) | 260.3 | 8.7 | B1/500 | | |
| BM | (30°-60°) | 674.5 | 22.5 | B1/1000 | | |
| BH | (60°-80°) | 546.2 | 18.2 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 20.8 | 0.7 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type I Short





REPORT NUMBER: P144580

CATALOG NUMBER: LDRC-RW-E01-E

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 67° | 68° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 0° | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 |
| 2.5° | 576.7 | 576.1 | 577.2 | 578.2 | 577.9 | 578.1 | 577.7 | 577.2 | 577.2 | 577.3 | 577.3 |
| 5° | 581.2 | 580.6 | 581.6 | 582.5 | 582.8 | 583.5 | 583.7 | 583.4 | 583.5 | 583.7 | 583.8 |
| 7.5° | 586.6 | 586.1 | 587.4 | 588.6 | 590.9 | 592.1 | 593.3 | 594.5 | 594.6 | 594.7 | 594.8 |
| 10° | 591.7 | 591.4 | 593.5 | 596.1 | 599.8 | 602.6 | 606.0 | 609.3 | 609.6 | 609.8 | 610.1 |
| 12.5° | 595.0 | 595.0 | 598.2 | 602.9 | 609.3 | 615.0 | 620.8 | 626.4 | 626.9 | 627.4 | 628.0 |
| 15° | 594.8 | 595.2 | 600.1 | 608.7 | 619.7 | 629.8 | 636.9 | 643.0 | 643.5 | 644.0 | 644.5 |
| 17.5° | 590.7 | 590.8 | 597.8 | 611.5 | 628.7 | 643.7 | 652.9 | 656.2 | 656.4 | 656.6 | 656.7 |
| 20° | 579.2 | 580.0 | 589.9 | 609.8 | 635.7 | 656.4 | 665.1 | 663.7 | 663.4 | 663.1 | 662.8 |
| 22.5° | 559.5 | 560.5 | 573.7 | 600.4 | 637.0 | 664.6 | 673.6 | 667.3 | 666.3 | 665.4 | 664.4 |
| 25° | 532.1 | 533.8 | 548.1 | 582.3 | 628.2 | 667.0 | 679.1 | 669.0 | 667.5 | 666.0 | 664.5 |
| 27.5° | 500.4 | 501.2 | 518.1 | 554.0 | 607.7 | 659.0 | 681.6 | 672.5 | 670.6 | 668.7 | 666.9 |
| 30° | 463.7 | 465.8 | 483.4 | 520.9 | 578.8 | 640.4 | 680.6 | 679.3 | 677.2 | 675.1 | 673.0 |
| 32.5° | 427.2 | 429.0 | 446.3 | 486.7 | 545.5 | 614.5 | 675.6 | 689.6 | 687.8 | 686.1 | 684.3 |
| 35° | 390.4 | 392.6 | 410.4 | 453.8 | 512.4 | 585.1 | 667.7 | 704.3 | 703.5 | 702.8 | 702.0 |
| 37.5° | 358.1 | 359.5 | 377.0 | 422.1 | 483.4 | 558.2 | 657.4 | 724.0 | 725.7 | 727.4 | 729.2 |
| 40° | 325.2 | 326.6 | 344.9 | 391.1 | 456.7 | 535.2 | 647.9 | 748.8 | 753.5 | 758.2 | 762.9 |
| 42.5° | 293.6 | 294.8 | 312.5 | 358.6 | 427.0 | 515.3 | 642.2 | 778.8 | 787.8 | 796.8 | 805.9 |
| 45° | 261.2 | 262.0 | 278.6 | 323.5 | 393.1 | 492.1 | 640.7 | 812.5 | 825.5 | 838.5 | 851.6 |
| 47.5° | 229.3 | 231.2 | 248.3 | 290.9 | 354.4 | 458.9 | 638.5 | 849.8 | 867.1 | 884.3 | 901.6 |
| 50° | 198.8 | 200.9 | 218.5 | 258.9 | 317.0 | 419.5 | 627.3 | 892.1 | 913.1 | 934.2 | 955.2 |
| 52.5° | 167.7 | 169.8 | 187.4 | 226.0 | 282.3 | 375.1 | 596.1 | 936.5 | 961.5 | 986.5 | 1011.6 |
| 55° | 134.5 | 135.3 | 153.4 | 192.1 | 247.6 | 337.9 | 546.4 | 977.2 | 1007.5 | 1037.8 | 1068.1 |
| 57.5° | 97.8 | 100.5 | 118.4 | 154.4 | 212.2 | 305.0 | 483.2 | 998.0 | 1035.8 | 1073.6 | 1111.5 |
| 60° | 70.6 | 72.4 | 88.1 | 116.4 | 172.1 | 272.7 | 427.1 | 982.8 | 1033.3 | 1083.8 | 1134.2 |
| 62.5° | 55.8 | 57.8 | 69.9 | 87.7 | 133.1 | 237.2 | 390.5 | 941.1 | 1011.9 | 1082.7 | 1153.6 |
| 65° | 49.4 | 51.2 | 62.4 | 71.2 | 101.8 | 200.7 | 367.5 | 899.8 | 995.4 | 1091.0 | 1186.5 |
| 67.5° | 45.1 | 47.0 | 56.8 | 62.8 | 84.1 | 177.2 | 356.6 | 868.6 | 979.0 | 1089.4 | 1199.7 |
| 69° | 43.1 | 44.8 | 53.8 | 59.4 | 79.3 | 169.2 | 344.9 | 815.8 | 925.2 | 1034.7 | 1144.1 |
| 70° | 42.0 | 43.5 | 51.7 | 57.3 | 77.4 | 162.6 | 327.6 | 753.0 | 858.6 | 964.2 | 1069.8 |
| 72.5° | 38.9 | 39.9 | 46.8 | 52.0 | 70.8 | 129.8 | 247.1 | 531.3 | 620.8 | 710.3 | 799.9 |
| 75° | 34.5 | 35.7 | 41.8 | 46.6 | 54.0 | 78.0 | 154.7 | 308.4 | 369.7 | 431.1 | 492.4 |
| 77.5° | 29.6 | 31.0 | 36.0 | 43.6 | 43.5 | 50.8 | 93.9 | 177.1 | 206.9 | 236.7 | 266.5 |
| 80° | 25.4 | 26.6 | 31.1 | 43.1 | 36.4 | 40.2 | 70.0 | 132.1 | 144.1 | 156.1 | 168.1 |
| 82.5° | 19.9 | 20.9 | 26.1 | 35.6 | 29.1 | 30.6 | 53.3 | 120.3 | 128.4 | 136.6 | 144.7 |
| 85° | 12.5 | 12.9 | 19.0 | 24.6 | 20.7 | 18.5 | 34.3 | 92.6 | 98.5 | 104.4 | 110.4 |
| 87.5° | 5.0 | 6.1 | 9.2 | 8.8 | 8.9 | 7.4 | 11.1 | 33.4 | 36.4 | 39.5 | 42.5 |
| 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: P144580

CATALOG NUMBER: LDRC-RW-E01-E

CANDELA DISTRIBUTION (continued):

| | 69° | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 |
| 2.5° | 577.4 | 577.4 | 577.2 | 576.9 | 577.2 | 576.9 | 577.0 | 577.3 | 577.2 | 577.2 | 577.0 |
| 5° | 584.0 | 584.1 | 584.1 | 583.5 | 583.8 | 583.9 | 584.0 | 583.8 | 583.9 | 584.1 | 583.7 |
| 7.5° | 594.9 | 595.0 | 595.3 | 595.6 | 595.4 | 595.5 | 595.7 | 595.5 | 595.2 | 595.9 | 595.4 |
| 10° | 610.3 | 610.6 | 610.6 | 611.5 | 611.1 | 611.4 | 612.3 | 612.3 | 611.8 | 612.5 | 612.3 |
| 12.5° | 628.5 | 629.0 | 628.9 | 628.8 | 629.2 | 629.5 | 630.5 | 630.7 | 630.9 | 632.0 | 631.6 |
| 15° | 645.0 | 645.5 | 645.9 | 646.1 | 646.8 | 647.0 | 647.6 | 648.0 | 648.3 | 648.7 | 648.9 |
| 17.5° | 656.9 | 657.1 | 657.7 | 657.4 | 658.4 | 658.2 | 658.9 | 659.2 | 659.5 | 660.0 | 660.3 |
| 20° | 662.5 | 662.2 | 662.3 | 662.0 | 662.0 | 662.2 | 662.3 | 662.7 | 662.5 | 663.0 | 663.4 |
| 22.5° | 663.5 | 662.5 | 661.9 | 661.2 | 660.9 | 660.3 | 660.3 | 660.5 | 659.8 | 660.3 | 660.9 |
| 25° | 663.0 | 661.5 | 660.4 | 659.2 | 658.1 | 657.1 | 656.5 | 656.3 | 655.8 | 655.8 | 656.3 |
| 27.5° | 665.0 | 663.1 | 661.5 | 659.5 | 658.1 | 656.7 | 655.4 | 654.4 | 653.4 | 653.2 | 653.2 |
| 30° | 670.9 | 668.8 | 667.0 | 664.5 | 662.3 | 660.5 | 658.7 | 657.3 | 655.4 | 654.6 | 653.7 |
| 32.5° | 682.6 | 680.8 | 678.3 | 676.1 | 673.5 | 671.3 | 668.9 | 666.7 | 664.5 | 662.5 | 661.7 |
| 35° | 701.3 | 700.5 | 699.1 | 697.6 | 695.1 | 692.3 | 690.3 | 687.7 | 685.2 | 682.3 | 681.5 |
| 37.5° | 730.9 | 732.6 | 731.8 | 730.7 | 730.0 | 729.1 | 726.4 | 724.7 | 723.0 | 720.6 | 720.1 |
| 40° | 767.6 | 772.3 | 777.0 | 780.1 | 779.0 | 782.7 | 783.3 | 783.6 | 782.1 | 784.1 | 784.5 |
| 42.5° | 814.9 | 823.9 | 832.4 | 838.6 | 845.8 | 851.2 | 858.2 | 861.2 | 866.9 | 872.8 | 876.2 |
| 45° | 864.6 | 877.6 | 889.8 | 902.5 | 915.0 | 928.7 | 942.0 | 951.4 | 965.1 | 975.3 | 981.7 |
| 47.5° | 918.8 | 936.1 | 950.7 | 969.7 | 987.8 | 1004.0 | 1027.3 | 1046.0 | 1062.7 | 1078.6 | 1095.3 |
| 50° | 976.3 | 997.3 | 1015.3 | 1038.5 | 1060.5 | 1085.9 | 1113.2 | 1137.0 | 1163.2 | 1188.5 | 1211.0 |
| 52.5° | 1036.6 | 1061.6 | 1085.9 | 1109.7 | 1136.4 | 1164.0 | 1193.6 | 1228.0 | 1259.4 | 1297.5 | 1324.8 |
| 55° | 1098.4 | 1128.7 | 1154.6 | 1179.5 | 1207.8 | 1238.4 | 1273.6 | 1314.3 | 1354.2 | 1395.9 | 1437.3 |
| 57.5° | 1149.3 | 1187.1 | 1215.4 | 1244.5 | 1275.0 | 1305.3 | 1349.0 | 1390.7 | 1441.3 | 1492.5 | 1544.3 |
| 60° | 1184.7 | 1235.2 | 1269.5 | 1306.3 | 1341.6 | 1378.4 | 1425.5 | 1478.2 | 1541.5 | 1603.5 | 1673.9 |
| 62.5° | 1224.4 | 1295.2 | 1343.3 | 1392.4 | 1435.3 | 1479.5 | 1542.5 | 1603.2 | 1684.5 | 1755.9 | 1844.5 |
| 65° | 1282.1 | 1377.7 | 1448.5 | 1514.7 | 1572.3 | 1632.5 | 1707.2 | 1783.1 | 1876.1 | 1974.8 | 2085.9 |
| 67.5° | 1310.1 | 1420.5 | 1513.2 | 1594.9 | 1668.5 | 1745.2 | 1822.3 | 1912.1 | 2016.9 | 2135.7 | 2257.7 |
| 69° | 1253.6 | 1363.0 | 1469.6 | 1552.2 | 1629.7 | 1711.6 | 1794.1 | 1884.7 | 1987.9 | 2111.2 | 2240.5 |
| 70° | 1175.4 | 1281.0 | 1394.3 | 1477.1 | 1555.3 | 1640.3 | 1724.3 | 1815.8 | 1914.5 | 2041.5 | 2172.3 |
| 72.5° | 889.4 | 978.9 | 1088.9 | 1176.4 | 1258.6 | 1344.5 | 1431.0 | 1510.4 | 1610.5 | 1732.7 | 1853.2 |
| 75° | 553.8 | 615.1 | 714.0 | 801.9 | 868.0 | 941.6 | 1022.8 | 1098.0 | 1198.5 | 1285.1 | 1401.0 |
| 77.5° | 296.3 | 326.1 | 383.8 | 446.8 | 483.6 | 519.5 | 572.4 | 613.2 | 655.5 | 705.6 | 753.5 |
| 80° | 180.1 | 192.1 | 211.8 | 225.4 | 220.3 | 205.6 | 200.9 | 186.2 | 191.5 | 182.5 | 176.0 |
| 82.5° | 152.9 | 161.0 | 173.0 | 181.2 | 175.2 | 151.7 | 125.1 | 105.3 | 91.3 | 77.9 | 66.2 |
| 85° | 116.3 | 122.2 | 128.4 | 132.1 | 131.8 | 120.1 | 95.4 | 73.9 | 57.6 | 44.6 | 37.1 |
| 87.5° | 45.6 | 48.6 | 53.1 | 52.4 | 54.7 | 55.1 | 43.1 | 33.3 | 23.7 | 16.0 | 14.0 |
| 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: P144580

CATALOG NUMBER: LDRC-RW-E01-E

CANDELA DISTRIBUTION (continued):

| | 80° | 81° | 82° | 83° | 84° | 85° | 86° | 87° | 88° | 89° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 | 575.2 |
| 2.5° | 576.6 | 576.5 | 576.6 | 576.9 | 576.9 | 577.1 | 576.9 | 577.0 | 576.7 | 576.4 | 576.6 |
| 5° | 583.7 | 583.5 | 583.7 | 583.9 | 583.9 | 583.7 | 584.2 | 584.2 | 584.0 | 583.7 | 583.8 |
| 7.5° | 595.9 | 596.0 | 595.7 | 596.7 | 595.8 | 595.9 | 596.5 | 596.4 | 596.2 | 596.3 | 596.4 |
| 10° | 612.9 | 612.8 | 613.0 | 613.6 | 612.7 | 613.3 | 614.0 | 614.2 | 613.7 | 613.7 | 613.8 |
| 12.5° | 631.7 | 632.5 | 632.6 | 633.0 | 633.0 | 633.5 | 633.6 | 633.7 | 634.1 | 634.2 | 633.6 |
| 15° | 649.7 | 650.3 | 650.7 | 651.1 | 650.6 | 651.3 | 652.1 | 652.1 | 652.0 | 652.4 | 651.8 |
| 17.5° | 660.8 | 661.3 | 662.0 | 661.9 | 662.0 | 662.6 | 663.1 | 663.3 | 663.5 | 663.5 | 663.6 |
| 20° | 664.3 | 664.6 | 665.0 | 665.4 | 665.6 | 666.2 | 666.6 | 666.9 | 667.1 | 666.9 | 667.0 |
| 22.5° | 661.5 | 661.9 | 662.7 | 663.0 | 663.1 | 664.0 | 664.4 | 664.7 | 664.9 | 665.1 | 664.8 |
| 25° | 656.7 | 657.1 | 657.9 | 658.2 | 658.4 | 659.2 | 659.7 | 660.4 | 660.6 | 660.7 | 660.8 |
| 27.5° | 653.4 | 653.6 | 654.2 | 654.6 | 654.7 | 655.6 | 656.3 | 656.8 | 656.9 | 657.0 | 657.0 |
| 30° | 653.5 | 653.5 | 654.2 | 654.3 | 654.2 | 655.0 | 655.4 | 655.7 | 655.9 | 655.9 | 656.0 |
| 32.5° | 660.4 | 660.0 | 660.6 | 659.7 | 659.8 | 659.7 | 659.6 | 659.9 | 659.7 | 659.8 | 659.4 |
| 35° | 679.9 | 678.8 | 677.9 | 678.3 | 676.9 | 674.9 | 676.0 | 675.5 | 674.4 | 674.5 | 674.8 |
| 37.5° | 717.3 | 716.2 | 717.2 | 716.3 | 716.6 | 713.8 | 714.5 | 712.0 | 711.3 | 712.2 | 709.6 |
| 40° | 783.7 | 783.2 | 785.1 | 784.3 | 784.8 | 785.6 | 786.3 | 783.9 | 779.9 | 783.5 | 783.6 |
| 42.5° | 875.7 | 880.2 | 882.0 | 884.5 | 887.2 | 886.0 | 888.4 | 889.1 | 884.7 | 888.0 | 888.8 |
| 45° | 991.1 | 995.9 | 1001.5 | 1003.2 | 1007.6 | 1008.2 | 1010.0 | 1010.5 | 1006.5 | 1006.9 | 1007.8 |
| 47.5° | 1112.0 | 1120.8 | 1127.4 | 1132.0 | 1136.6 | 1137.5 | 1138.5 | 1136.6 | 1136.9 | 1137.8 | 1137.8 |
| 50° | 1230.8 | 1249.6 | 1261.3 | 1270.4 | 1278.3 | 1274.2 | 1277.7 | 1278.0 | 1279.2 | 1276.7 | 1278.2 |
| 52.5° | 1355.7 | 1380.6 | 1400.2 | 1415.5 | 1420.3 | 1434.9 | 1428.9 | 1433.5 | 1436.6 | 1432.0 | 1435.0 |
| 55° | 1477.7 | 1513.2 | 1544.7 | 1566.9 | 1582.5 | 1597.3 | 1599.6 | 1611.5 | 1610.1 | 1614.6 | 1612.6 |
| 57.5° | 1593.7 | 1643.3 | 1688.3 | 1721.2 | 1743.6 | 1766.2 | 1781.5 | 1794.5 | 1795.8 | 1808.7 | 1801.4 |
| 60° | 1734.0 | 1803.1 | 1861.0 | 1910.0 | 1943.1 | 1976.7 | 2003.2 | 2024.5 | 2029.4 | 2051.5 | 2044.2 |
| 62.5° | 1923.3 | 2007.6 | 2081.6 | 2139.1 | 2212.8 | 2248.3 | 2299.9 | 2332.1 | 2352.2 | 2357.7 | 2368.0 |
| 65° | 2189.4 | 2299.2 | 2396.8 | 2488.8 | 2571.7 | 2629.2 | 2688.9 | 2736.9 | 2775.4 | 2772.2 | 2788.0 |
| 67.5° | 2387.1 | 2512.3 | 2629.8 | 2740.1 | 2829.3 | 2903.3 | 2971.9 | 3023.8 | 3058.2 | 3080.1 | 3089.4 |
| 69° | 2366.5 | 2500.9 | 2630.5 | 2748.3 | 2840.3 | 2923.0 | 2989.8 | 3040.9 | 3080.3 | 3104.1 | 3111.0 |
| 70° | 2298.0 | 2436.1 | 2571.2 | 2686.8 | 2780.6 | 2871.4 | 2939.4 | 2996.3 | 3033.8 | 3059.8 | 3063.8 |
| 72.5° | 1987.7 | 2137.3 | 2256.8 | 2382.9 | 2473.2 | 2565.1 | 2607.9 | 2678.4 | 2727.3 | 2743.1 | 2742.8 |
| 75° | 1499.2 | 1624.0 | 1729.0 | 1822.2 | 1903.0 | 1965.3 | 1985.5 | 2035.7 | 2076.3 | 2075.8 | 2072.0 |
| 77.5° | 807.3 | 836.7 | 876.0 | 889.2 | 914.1 | 913.7 | 888.7 | 896.6 | 919.6 | 875.0 | 889.4 |
| 80° | 173.2 | 170.6 | 168.4 | 167.1 | 166.4 | 166.7 | 167.6 | 161.9 | 167.5 | 165.0 | 154.4 |
| 82.5° | 60.3 | 58.9 | 57.5 | 58.5 | 57.8 | 58.4 | 58.2 | 58.9 | 58.8 | 58.6 | 57.2 |
| 85° | 33.9 | 32.7 | 32.0 | 32.5 | 31.4 | 30.4 | 29.7 | 29.4 | 29.3 | 28.6 | 28.2 |
| 87.5° | 12.9 | 12.8 | 12.7 | 12.2 | 11.0 | 10.1 | 9.5 | 8.3 | 7.8 | 7.1 | 6.6 |
| 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)