

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: P144631

Luminaire Tested: **LDRV-RW-E02-E-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144631
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-E02-E-7050
Description: RIDGEVIEW LED AREA/SITE LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6164.2 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

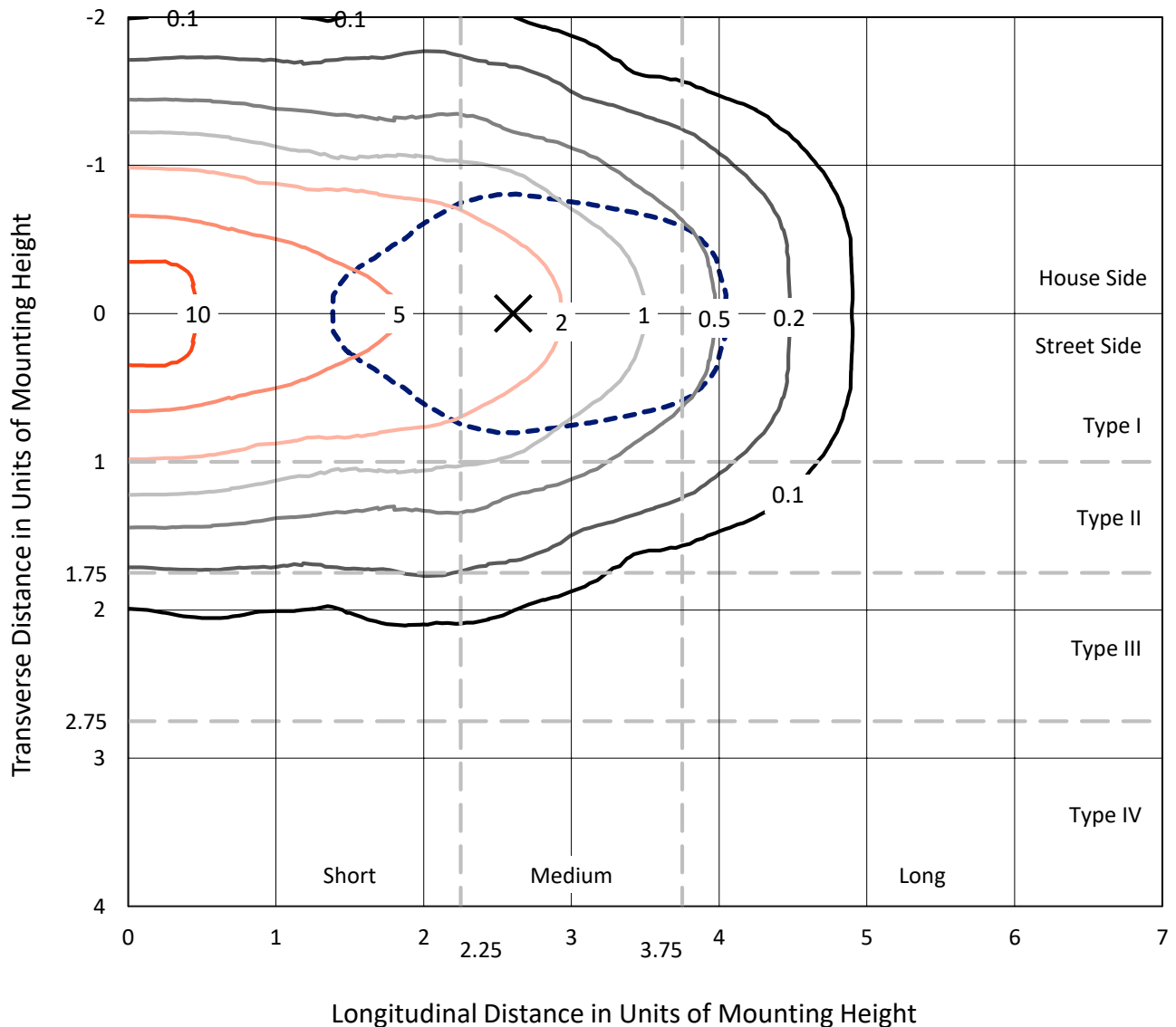
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P144631
 CATALOG NUMBER: LDRV-RW-E02-E-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

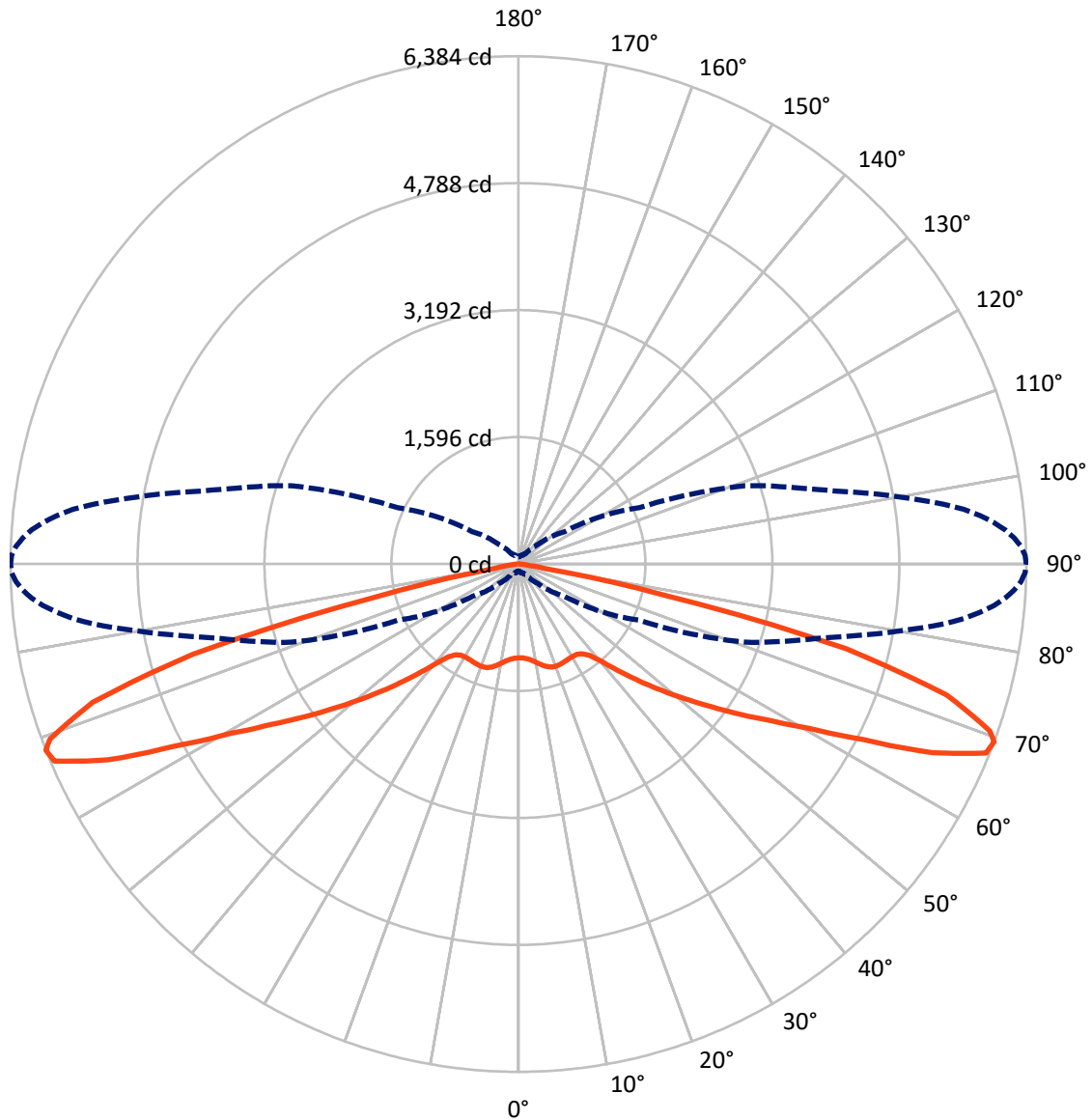


Based on 10 foot mounting height. Maximum calculated value = 12.1 fc
 Type I - Short - Full Cutoff

REPORT NUMBER: P144631

CATALOG NUMBER: LDRV-RW-E02-E-7050

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: LDRV-RW-E02-E-7050

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3082.1 | 0.0 | 3082.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3082.1 | 0.0 | 3082.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 6164.2 | 0.0 | 6164.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 115.5 | 1.9 |
| 10°-20° | 363.7 | 5.9 |
| 20°-30° | 589.1 | 9.6 |
| 30°-40° | 733.9 | 11.9 |
| 40°-50° | 913.6 | 14.8 |
| 50°-60° | 1121.0 | 18.2 |
| 60°-70° | 1382.6 | 22.4 |
| 70°-80° | 859.5 | 13.9 |
| 80°-90° | 85.4 | 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° | 6164.2 | 100.0 |
| 0°-180° | 6164.2 | 100.0 |



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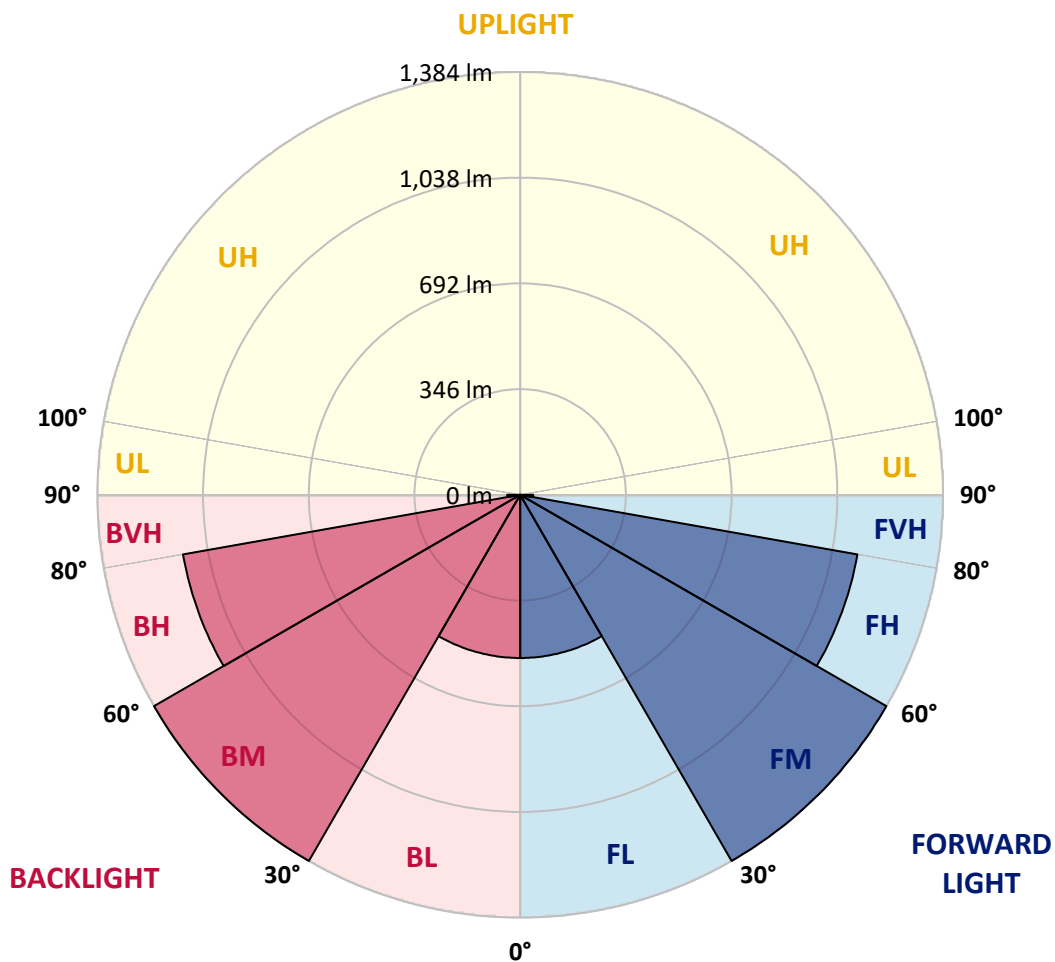
CATALOG NUMBER: LDRV-RW-E02-E-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 534.2 | 8.7 | | | |
| FM | (30°-60°) | 1384.2 | 22.5 | | | |
| FH | (60°-80°) | 1121.0 | 18.2 | | | G1/1800 |
| FVH | (80°-90°) | 42.7 | 0.7 | | | G1/100 |
| BL | (0°-30°) | 534.2 | 8.7 | B2/1000 | | |
| BM | (30°-60°) | 1384.2 | 22.5 | B2/2500 | | |
| BH | (60°-80°) | 1121.0 | 18.2 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 42.7 | 0.7 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type I Short





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CATALOG NUMBER: LDRV-RW-E02-E-7050

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 67° | 68° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1180.4 | 1180.4 | 1180.4 | 1180.4 | 1180.4 | 1180.4 | 1180.4 | 1180.4 | 1180.4 | 1180.4 | 1180.4 |
| 2.5° | 1183.6 | 1182.2 | 1184.6 | 1186.6 | 1186.0 | 1186.4 | 1185.6 | 1184.5 | 1184.6 | 1184.7 | 1184.7 |
| 5° | 1192.8 | 1191.5 | 1193.6 | 1195.4 | 1196.0 | 1197.4 | 1197.8 | 1197.2 | 1197.5 | 1197.8 | 1198.1 |
| 7.5° | 1203.8 | 1202.8 | 1205.5 | 1208.0 | 1212.6 | 1215.1 | 1217.6 | 1220.0 | 1220.2 | 1220.4 | 1220.6 |
| 10° | 1214.3 | 1213.7 | 1218.0 | 1223.3 | 1231.0 | 1236.6 | 1243.6 | 1250.4 | 1250.9 | 1251.5 | 1252.0 |
| 12.5° | 1221.1 | 1221.0 | 1227.6 | 1237.3 | 1250.4 | 1262.1 | 1274.0 | 1285.5 | 1286.6 | 1287.6 | 1288.7 |
| 15° | 1220.6 | 1221.5 | 1231.6 | 1249.2 | 1271.8 | 1292.5 | 1307.1 | 1319.6 | 1320.6 | 1321.6 | 1322.6 |
| 17.5° | 1212.2 | 1212.4 | 1226.8 | 1254.9 | 1290.2 | 1321.0 | 1339.8 | 1346.6 | 1347.0 | 1347.4 | 1347.8 |
| 20° | 1188.6 | 1190.3 | 1210.6 | 1251.4 | 1304.6 | 1347.1 | 1364.9 | 1362.1 | 1361.4 | 1360.8 | 1360.2 |
| 22.5° | 1148.2 | 1150.2 | 1177.4 | 1232.2 | 1307.2 | 1363.9 | 1382.4 | 1369.4 | 1367.5 | 1365.5 | 1363.5 |
| 25° | 1092.0 | 1095.4 | 1124.8 | 1195.0 | 1289.2 | 1368.8 | 1393.7 | 1373.0 | 1369.9 | 1366.8 | 1363.7 |
| 27.5° | 1027.0 | 1028.6 | 1063.2 | 1137.0 | 1247.2 | 1352.4 | 1398.8 | 1380.1 | 1376.2 | 1372.4 | 1368.5 |
| 30° | 951.6 | 955.9 | 992.0 | 1069.0 | 1187.8 | 1314.2 | 1396.8 | 1394.1 | 1389.7 | 1385.4 | 1381.1 |
| 32.5° | 876.7 | 880.4 | 915.9 | 998.8 | 1119.4 | 1261.1 | 1386.4 | 1415.2 | 1411.6 | 1408.0 | 1404.4 |
| 35° | 801.2 | 805.7 | 842.2 | 931.3 | 1051.6 | 1200.8 | 1370.3 | 1445.4 | 1443.8 | 1442.3 | 1440.7 |
| 37.5° | 734.9 | 737.8 | 773.6 | 866.2 | 992.0 | 1145.6 | 1349.1 | 1485.8 | 1489.3 | 1492.9 | 1496.4 |
| 40° | 667.4 | 670.2 | 707.8 | 802.6 | 937.2 | 1098.4 | 1329.6 | 1536.7 | 1546.4 | 1556.0 | 1565.6 |
| 42.5° | 602.6 | 605.0 | 641.3 | 735.9 | 876.3 | 1057.5 | 1317.9 | 1598.3 | 1616.8 | 1635.3 | 1653.8 |
| 45° | 536.0 | 537.7 | 571.8 | 663.9 | 806.7 | 1009.9 | 1314.8 | 1667.4 | 1694.2 | 1720.9 | 1747.6 |
| 47.5° | 470.6 | 474.4 | 509.6 | 597.0 | 727.3 | 941.8 | 1310.4 | 1744.0 | 1779.4 | 1814.8 | 1850.2 |
| 50° | 408.0 | 412.3 | 448.4 | 531.3 | 650.6 | 860.9 | 1287.4 | 1830.8 | 1874.0 | 1917.2 | 1960.3 |
| 52.5° | 344.2 | 348.4 | 384.6 | 463.8 | 579.4 | 769.8 | 1223.3 | 1921.9 | 1973.2 | 2024.6 | 2076.0 |
| 55° | 276.0 | 277.6 | 314.8 | 394.2 | 508.2 | 693.4 | 1121.3 | 2005.4 | 2067.6 | 2129.8 | 2192.0 |
| 57.5° | 200.7 | 206.2 | 243.0 | 316.8 | 435.4 | 626.0 | 991.6 | 2048.1 | 2125.7 | 2203.3 | 2281.0 |
| 60° | 144.9 | 148.6 | 180.8 | 238.9 | 353.2 | 559.6 | 876.5 | 2017.0 | 2120.5 | 2224.1 | 2327.7 |
| 62.5° | 114.6 | 118.6 | 143.4 | 180.0 | 273.2 | 486.8 | 801.4 | 1931.4 | 2076.7 | 2222.0 | 2367.3 |
| 65° | 101.4 | 105.1 | 128.0 | 146.1 | 208.9 | 411.9 | 754.2 | 1846.6 | 2042.7 | 2238.9 | 2435.0 |
| 67.5° | 92.6 | 96.4 | 116.6 | 128.9 | 172.6 | 363.7 | 731.8 | 1782.5 | 2009.1 | 2235.6 | 2462.1 |
| 69° | 88.4 | 92.0 | 110.4 | 121.9 | 162.8 | 347.2 | 707.8 | 1674.2 | 1898.8 | 2123.4 | 2348.0 |
| 70° | 86.2 | 89.2 | 106.1 | 117.6 | 158.9 | 333.7 | 672.3 | 1545.4 | 1762.1 | 1978.8 | 2195.5 |
| 72.5° | 79.8 | 81.8 | 96.0 | 106.7 | 145.3 | 266.4 | 507.1 | 1090.4 | 1274.1 | 1457.8 | 1641.5 |
| 75° | 70.8 | 73.2 | 85.8 | 95.6 | 110.8 | 160.0 | 317.5 | 632.9 | 758.8 | 884.7 | 1010.5 |
| 77.5° | 60.7 | 63.6 | 73.9 | 89.5 | 89.2 | 104.2 | 192.7 | 363.4 | 424.6 | 485.8 | 546.9 |
| 80° | 52.1 | 54.6 | 63.8 | 88.4 | 74.7 | 82.5 | 143.6 | 271.1 | 295.7 | 320.4 | 345.0 |
| 82.5° | 40.8 | 42.9 | 53.6 | 73.1 | 59.7 | 62.8 | 109.4 | 246.9 | 263.6 | 280.3 | 297.0 |
| 85° | 25.6 | 26.5 | 39.0 | 50.5 | 42.5 | 38.0 | 70.4 | 190.0 | 202.2 | 214.4 | 226.5 |
| 87.5° | 10.2 | 12.6 | 18.9 | 18.0 | 18.2 | 15.2 | 22.8 | 68.6 | 74.8 | 81.0 | 87.3 |
| 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-E02-E-7050

CANDELA DISTRIBUTION (continued):

| | 69° | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1180.4 | 1180.4 | 1180.4 | 1180.4 | 1180.4 | 1180.4 | 1180.4 | 1180.4 | 1180.4 | 1180.4 | 1180.4 |
| 2.5° | 1184.8 | 1184.9 | 1184.6 | 1183.9 | 1184.6 | 1184.0 | 1184.2 | 1184.8 | 1184.6 | 1184.6 | 1184.2 |
| 5° | 1198.4 | 1198.7 | 1198.7 | 1197.4 | 1198.1 | 1198.3 | 1198.5 | 1198.1 | 1198.3 | 1198.7 | 1197.8 |
| 7.5° | 1220.8 | 1221.1 | 1221.7 | 1222.3 | 1221.9 | 1222.1 | 1222.5 | 1222.1 | 1221.4 | 1222.9 | 1221.9 |
| 10° | 1252.6 | 1253.1 | 1253.0 | 1254.9 | 1254.1 | 1254.7 | 1256.6 | 1256.6 | 1255.6 | 1257.0 | 1256.6 |
| 12.5° | 1289.7 | 1290.8 | 1290.6 | 1290.4 | 1291.2 | 1291.8 | 1294.0 | 1294.4 | 1294.8 | 1297.0 | 1296.2 |
| 15° | 1323.7 | 1324.7 | 1325.5 | 1326.0 | 1327.4 | 1327.8 | 1329.0 | 1329.8 | 1330.4 | 1331.2 | 1331.6 |
| 17.5° | 1348.1 | 1348.5 | 1349.8 | 1349.2 | 1351.2 | 1350.8 | 1352.2 | 1352.8 | 1353.4 | 1354.4 | 1355.1 |
| 20° | 1359.6 | 1359.0 | 1359.2 | 1358.6 | 1358.6 | 1358.9 | 1359.2 | 1360.0 | 1359.6 | 1360.6 | 1361.4 |
| 22.5° | 1361.6 | 1359.6 | 1358.4 | 1356.9 | 1356.4 | 1355.1 | 1355.1 | 1355.4 | 1354.0 | 1355.1 | 1356.3 |
| 25° | 1360.6 | 1357.6 | 1355.3 | 1352.8 | 1350.6 | 1348.5 | 1347.3 | 1346.9 | 1345.8 | 1345.8 | 1346.8 |
| 27.5° | 1364.7 | 1360.8 | 1357.6 | 1353.4 | 1350.6 | 1347.7 | 1345.0 | 1342.9 | 1341.0 | 1340.5 | 1340.5 |
| 30° | 1376.8 | 1372.5 | 1368.8 | 1363.7 | 1359.2 | 1355.4 | 1351.8 | 1349.0 | 1345.0 | 1343.4 | 1341.6 |
| 32.5° | 1400.8 | 1397.2 | 1392.1 | 1387.5 | 1382.2 | 1377.6 | 1372.7 | 1368.2 | 1363.7 | 1359.6 | 1358.0 |
| 35° | 1439.1 | 1437.6 | 1434.7 | 1431.6 | 1426.5 | 1420.7 | 1416.6 | 1411.3 | 1406.2 | 1400.2 | 1398.6 |
| 37.5° | 1499.9 | 1503.4 | 1501.8 | 1499.6 | 1498.1 | 1496.3 | 1490.8 | 1487.2 | 1483.8 | 1478.8 | 1477.8 |
| 40° | 1575.3 | 1584.9 | 1594.6 | 1600.9 | 1598.6 | 1606.3 | 1607.5 | 1608.1 | 1605.1 | 1609.1 | 1610.0 |
| 42.5° | 1672.3 | 1690.8 | 1708.3 | 1721.0 | 1735.8 | 1746.8 | 1761.2 | 1767.4 | 1779.1 | 1791.2 | 1798.2 |
| 45° | 1774.3 | 1801.0 | 1826.0 | 1852.1 | 1877.8 | 1905.9 | 1933.2 | 1952.4 | 1980.6 | 2001.6 | 2014.6 |
| 47.5° | 1885.7 | 1921.1 | 1951.0 | 1990.0 | 2027.2 | 2060.4 | 2108.2 | 2146.6 | 2180.9 | 2213.6 | 2247.8 |
| 50° | 2003.5 | 2046.7 | 2083.6 | 2131.2 | 2176.4 | 2228.5 | 2284.6 | 2333.4 | 2387.2 | 2439.0 | 2485.2 |
| 52.5° | 2127.3 | 2178.6 | 2228.5 | 2277.4 | 2332.2 | 2388.8 | 2449.6 | 2520.1 | 2584.6 | 2662.8 | 2718.8 |
| 55° | 2254.2 | 2316.4 | 2369.5 | 2420.6 | 2478.6 | 2541.4 | 2613.7 | 2697.2 | 2779.1 | 2864.7 | 2949.6 |
| 57.5° | 2358.6 | 2436.2 | 2494.2 | 2554.0 | 2616.6 | 2678.8 | 2768.4 | 2854.0 | 2957.8 | 3062.9 | 3169.2 |
| 60° | 2431.3 | 2534.9 | 2605.2 | 2680.8 | 2753.2 | 2828.8 | 2925.4 | 3033.6 | 3163.5 | 3290.8 | 3435.2 |
| 62.5° | 2512.7 | 2658.0 | 2756.7 | 2857.5 | 2945.6 | 3036.2 | 3165.5 | 3290.1 | 3457.0 | 3603.5 | 3785.3 |
| 65° | 2631.2 | 2827.3 | 2972.6 | 3108.5 | 3226.7 | 3350.2 | 3503.5 | 3659.3 | 3850.2 | 4052.7 | 4280.7 |
| 67.5° | 2688.7 | 2915.2 | 3105.4 | 3273.0 | 3424.1 | 3581.5 | 3739.8 | 3924.0 | 4139.1 | 4382.9 | 4633.3 |
| 69° | 2572.6 | 2797.2 | 3016.0 | 3185.4 | 3344.5 | 3512.6 | 3681.8 | 3867.8 | 4079.6 | 4332.6 | 4598.0 |
| 70° | 2412.2 | 2628.9 | 2861.4 | 3031.4 | 3191.8 | 3366.2 | 3538.6 | 3726.4 | 3929.0 | 4189.6 | 4458.0 |
| 72.5° | 1825.2 | 2009.0 | 2234.6 | 2414.2 | 2583.0 | 2759.2 | 2936.7 | 3099.6 | 3305.1 | 3555.9 | 3803.2 |
| 75° | 1136.4 | 1262.3 | 1465.2 | 1645.7 | 1781.4 | 1932.4 | 2099.0 | 2253.4 | 2459.6 | 2637.3 | 2875.2 |
| 77.5° | 608.0 | 669.2 | 787.6 | 917.0 | 992.4 | 1066.1 | 1174.7 | 1258.4 | 1345.2 | 1448.1 | 1546.4 |
| 80° | 369.6 | 394.2 | 434.6 | 462.6 | 452.1 | 422.0 | 412.3 | 382.2 | 393.0 | 374.5 | 361.2 |
| 82.5° | 313.7 | 330.4 | 355.0 | 371.8 | 359.5 | 311.4 | 256.8 | 216.1 | 187.4 | 159.9 | 135.9 |
| 85° | 238.6 | 250.8 | 263.5 | 271.1 | 270.4 | 246.4 | 195.8 | 151.6 | 118.2 | 91.6 | 76.2 |
| 87.5° | 93.5 | 99.8 | 109.0 | 107.6 | 112.2 | 113.1 | 88.4 | 68.4 | 48.6 | 32.8 | 28.8 |
| 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-E02-E-7050

CANDELA DISTRIBUTION (continued):

| | 80° | 81° | 82° | 83° | 84° | 85° | 86° | 87° | 88° | 89° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1180.4 | 1180.4 | 1180.4 | 1180.4 | 1180.4 | 1180.4 | 1180.4 | 1180.4 | 1180.4 | 1180.4 | 1180.4 |
| 2.5° | 1183.3 | 1183.1 | 1183.3 | 1183.9 | 1183.9 | 1184.4 | 1183.9 | 1184.1 | 1183.5 | 1182.9 | 1183.3 |
| 5° | 1197.8 | 1197.4 | 1197.9 | 1198.3 | 1198.3 | 1197.9 | 1198.9 | 1198.9 | 1198.5 | 1197.8 | 1198.1 |
| 7.5° | 1222.9 | 1223.2 | 1222.5 | 1224.6 | 1222.7 | 1222.9 | 1224.2 | 1223.9 | 1223.5 | 1223.8 | 1223.9 |
| 10° | 1257.8 | 1257.6 | 1258.0 | 1259.2 | 1257.4 | 1258.6 | 1260.0 | 1260.5 | 1259.4 | 1259.4 | 1259.6 |
| 12.5° | 1296.4 | 1298.0 | 1298.2 | 1299.0 | 1299.1 | 1300.1 | 1300.2 | 1300.4 | 1301.3 | 1301.5 | 1300.3 |
| 15° | 1333.4 | 1334.6 | 1335.4 | 1336.2 | 1335.2 | 1336.6 | 1338.2 | 1338.2 | 1338.0 | 1338.9 | 1337.6 |
| 17.5° | 1356.1 | 1357.2 | 1358.6 | 1358.4 | 1358.6 | 1359.8 | 1360.8 | 1361.2 | 1361.6 | 1361.6 | 1361.8 |
| 20° | 1363.2 | 1363.9 | 1364.7 | 1365.6 | 1366.0 | 1367.1 | 1368.0 | 1368.6 | 1369.0 | 1368.6 | 1368.8 |
| 22.5° | 1357.6 | 1358.4 | 1360.0 | 1360.6 | 1360.8 | 1362.6 | 1363.4 | 1364.1 | 1364.5 | 1364.9 | 1364.3 |
| 25° | 1347.7 | 1348.5 | 1350.2 | 1350.8 | 1351.2 | 1352.8 | 1353.8 | 1355.3 | 1355.7 | 1355.9 | 1356.1 |
| 27.5° | 1340.9 | 1341.3 | 1342.6 | 1343.4 | 1343.6 | 1345.4 | 1346.8 | 1347.9 | 1348.1 | 1348.3 | 1348.3 |
| 30° | 1341.2 | 1341.2 | 1342.6 | 1342.8 | 1342.6 | 1344.2 | 1345.0 | 1345.6 | 1346.1 | 1346.1 | 1346.3 |
| 32.5° | 1355.2 | 1354.4 | 1355.7 | 1353.8 | 1354.0 | 1353.8 | 1353.6 | 1354.3 | 1353.8 | 1354.0 | 1353.2 |
| 35° | 1395.3 | 1393.1 | 1391.2 | 1392.0 | 1389.2 | 1385.0 | 1387.3 | 1386.3 | 1384.0 | 1384.2 | 1384.8 |
| 37.5° | 1472.1 | 1469.8 | 1471.8 | 1470.0 | 1470.6 | 1464.8 | 1466.3 | 1461.2 | 1459.7 | 1461.6 | 1456.2 |
| 40° | 1608.3 | 1607.3 | 1611.2 | 1609.6 | 1610.6 | 1612.2 | 1613.6 | 1608.7 | 1600.5 | 1607.9 | 1608.1 |
| 42.5° | 1797.1 | 1806.4 | 1810.0 | 1815.2 | 1820.8 | 1818.2 | 1823.2 | 1824.6 | 1815.6 | 1822.4 | 1824.0 |
| 45° | 2034.0 | 2043.8 | 2055.3 | 2058.8 | 2067.8 | 2069.0 | 2072.8 | 2073.8 | 2065.6 | 2066.4 | 2068.2 |
| 47.5° | 2282.1 | 2300.1 | 2313.6 | 2323.1 | 2332.6 | 2334.4 | 2336.4 | 2332.6 | 2333.2 | 2335.0 | 2335.0 |
| 50° | 2525.9 | 2564.4 | 2588.4 | 2607.1 | 2623.4 | 2615.0 | 2622.1 | 2622.7 | 2625.2 | 2620.1 | 2623.1 |
| 52.5° | 2782.2 | 2833.3 | 2873.5 | 2905.0 | 2914.8 | 2944.7 | 2932.4 | 2941.8 | 2948.2 | 2938.8 | 2944.9 |
| 55° | 3032.6 | 3105.4 | 3170.0 | 3215.6 | 3247.6 | 3278.0 | 3282.7 | 3307.2 | 3304.2 | 3313.5 | 3309.4 |
| 57.5° | 3270.6 | 3372.4 | 3464.8 | 3532.2 | 3578.2 | 3624.6 | 3656.0 | 3682.7 | 3685.4 | 3711.8 | 3696.9 |
| 60° | 3558.6 | 3700.4 | 3819.2 | 3919.8 | 3987.7 | 4056.6 | 4111.0 | 4154.7 | 4164.8 | 4210.1 | 4195.1 |
| 62.5° | 3947.0 | 4120.0 | 4271.9 | 4389.8 | 4541.1 | 4614.0 | 4719.8 | 4786.0 | 4827.2 | 4838.5 | 4859.6 |
| 65° | 4493.1 | 4718.4 | 4918.8 | 5107.5 | 5277.6 | 5395.6 | 5518.2 | 5616.7 | 5695.7 | 5689.2 | 5721.6 |
| 67.5° | 4898.8 | 5155.8 | 5396.9 | 5623.3 | 5806.4 | 5958.2 | 6099.0 | 6205.4 | 6276.1 | 6321.0 | 6340.1 |
| 69° | 4856.6 | 5132.4 | 5398.4 | 5640.1 | 5828.9 | 5998.6 | 6135.7 | 6240.6 | 6321.4 | 6370.2 | 6384.4 |
| 70° | 4716.0 | 4999.4 | 5276.6 | 5513.8 | 5706.4 | 5892.7 | 6032.3 | 6149.0 | 6226.0 | 6279.4 | 6287.6 |
| 72.5° | 4079.2 | 4386.2 | 4631.4 | 4890.2 | 5075.6 | 5264.2 | 5352.0 | 5496.6 | 5597.0 | 5629.5 | 5628.8 |
| 75° | 3076.6 | 3332.8 | 3548.3 | 3739.6 | 3905.4 | 4033.2 | 4074.7 | 4177.7 | 4261.0 | 4260.0 | 4252.2 |
| 77.5° | 1656.8 | 1717.1 | 1797.7 | 1824.8 | 1876.0 | 1875.2 | 1823.8 | 1840.0 | 1887.2 | 1795.6 | 1825.2 |
| 80° | 355.4 | 350.1 | 345.6 | 342.9 | 341.5 | 342.1 | 344.0 | 332.2 | 343.8 | 338.6 | 316.9 |
| 82.5° | 123.8 | 120.8 | 118.0 | 120.0 | 118.6 | 119.8 | 119.4 | 120.8 | 120.7 | 120.2 | 117.4 |
| 85° | 69.6 | 67.1 | 65.7 | 66.7 | 64.4 | 62.4 | 61.0 | 60.3 | 60.2 | 58.7 | 57.9 |
| 87.5° | 26.5 | 26.2 | 26.0 | 25.0 | 22.5 | 20.7 | 19.5 | 17.0 | 16.0 | 14.6 | 13.5 |
| 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)