

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: P144351

Luminaire Tested: **LDRV-5XQ-E04-E-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144351
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33699)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRV-5XQ-E04-E-7050
Description: RIDGEVIEW LED AREA/SITE LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (84) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12691.3 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G3

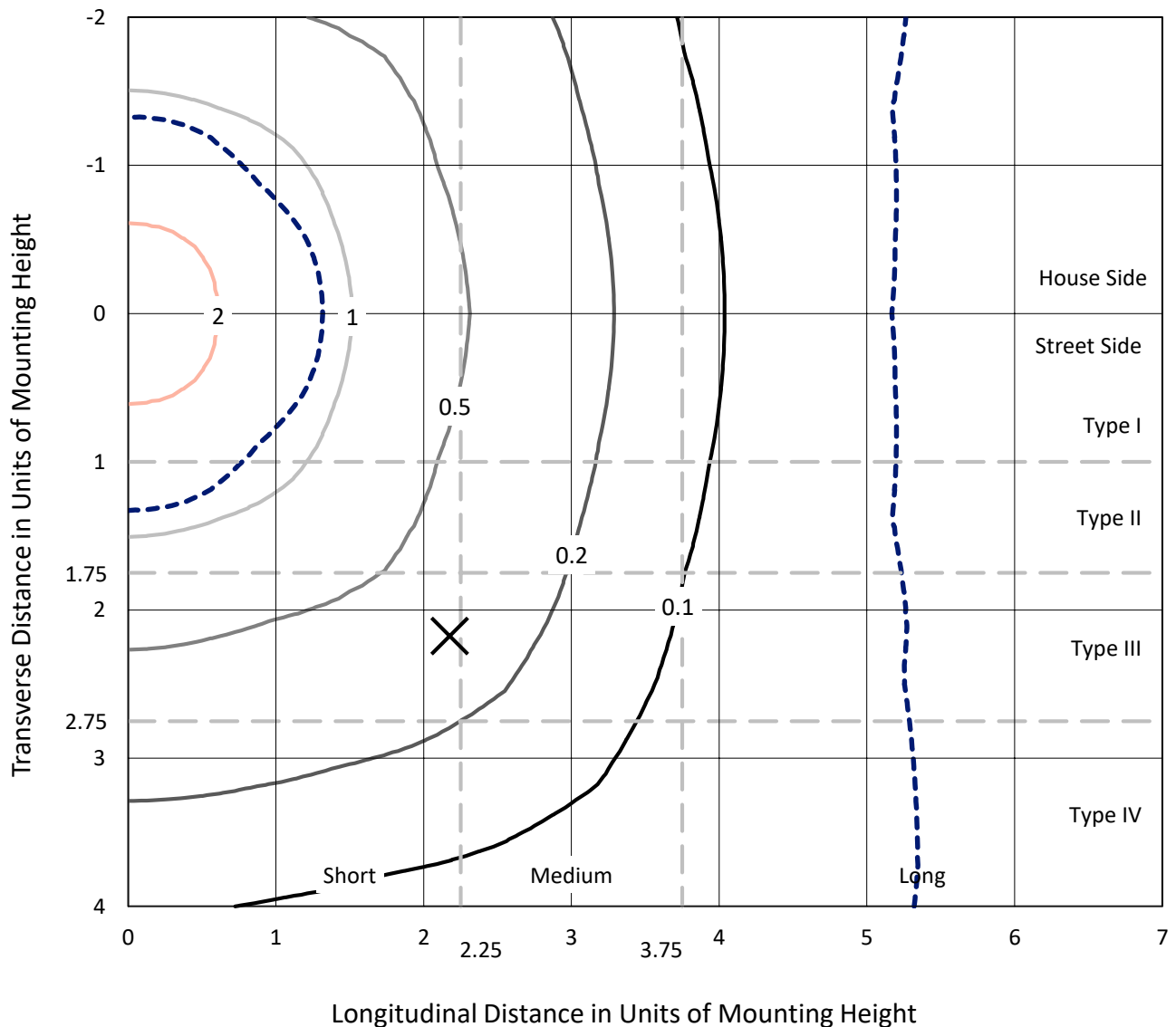
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

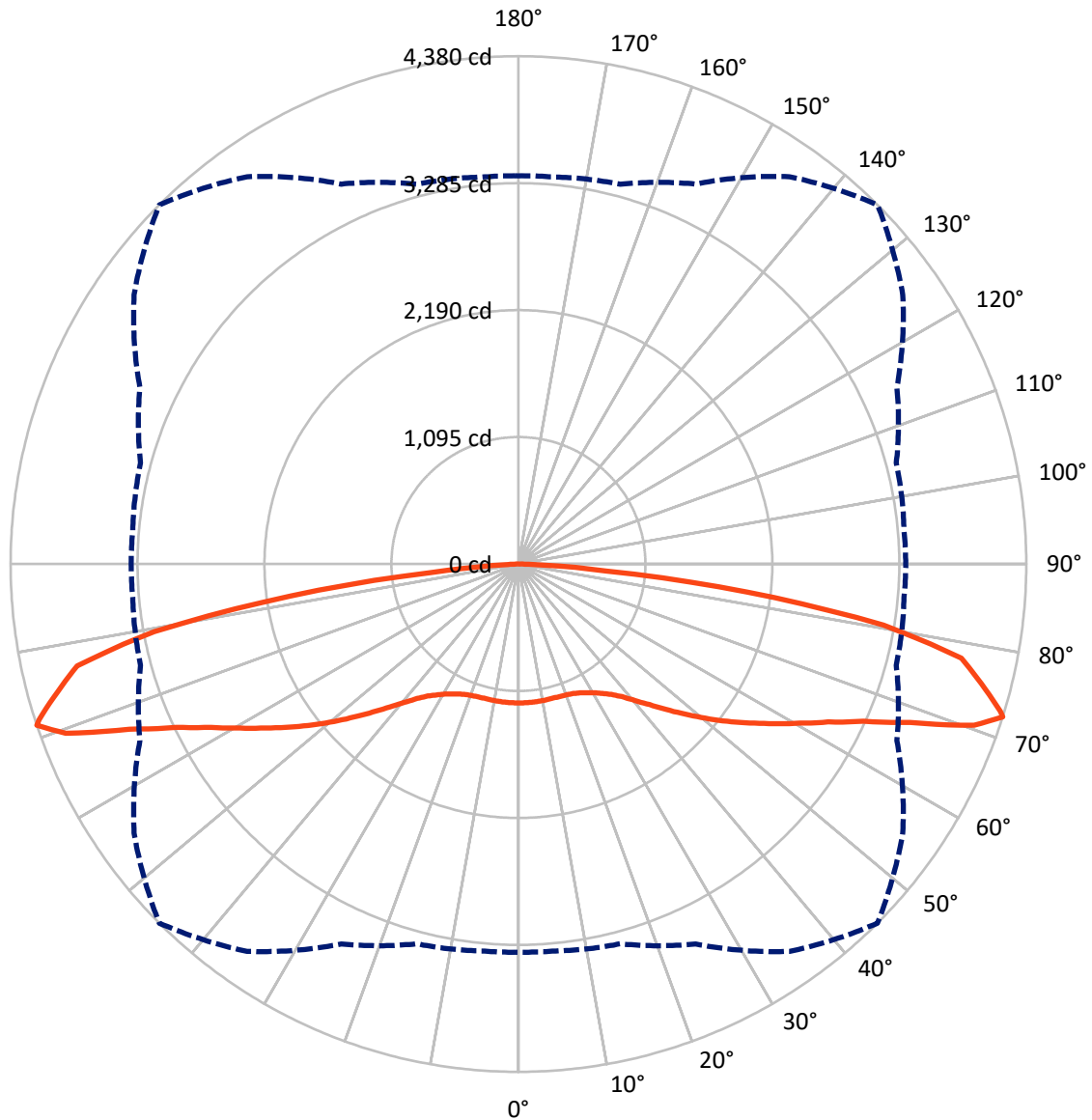
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6345.7 | 0.0 | 6345.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6345.7 | 0.0 | 6345.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 12691.3 | 0.0 | 12691.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 114.4 | 0.9 |
| 10°-20° | 339.8 | 2.7 |
| 20°-30° | 570.8 | 4.5 |
| 30°-40° | 868.7 | 6.8 |
| 40°-50° | 1373.4 | 10.8 |
| 50°-60° | 2097.6 | 16.5 |
| 60°-70° | 3073.0 | 24.2 |
| 70°-80° | 3491.1 | 27.5 |
| 80°-90° | 762.6 | 6.0 |
| 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° | 12691.3 | 100.0 |
| 0°-180° | 12691.3 | 100.0 |



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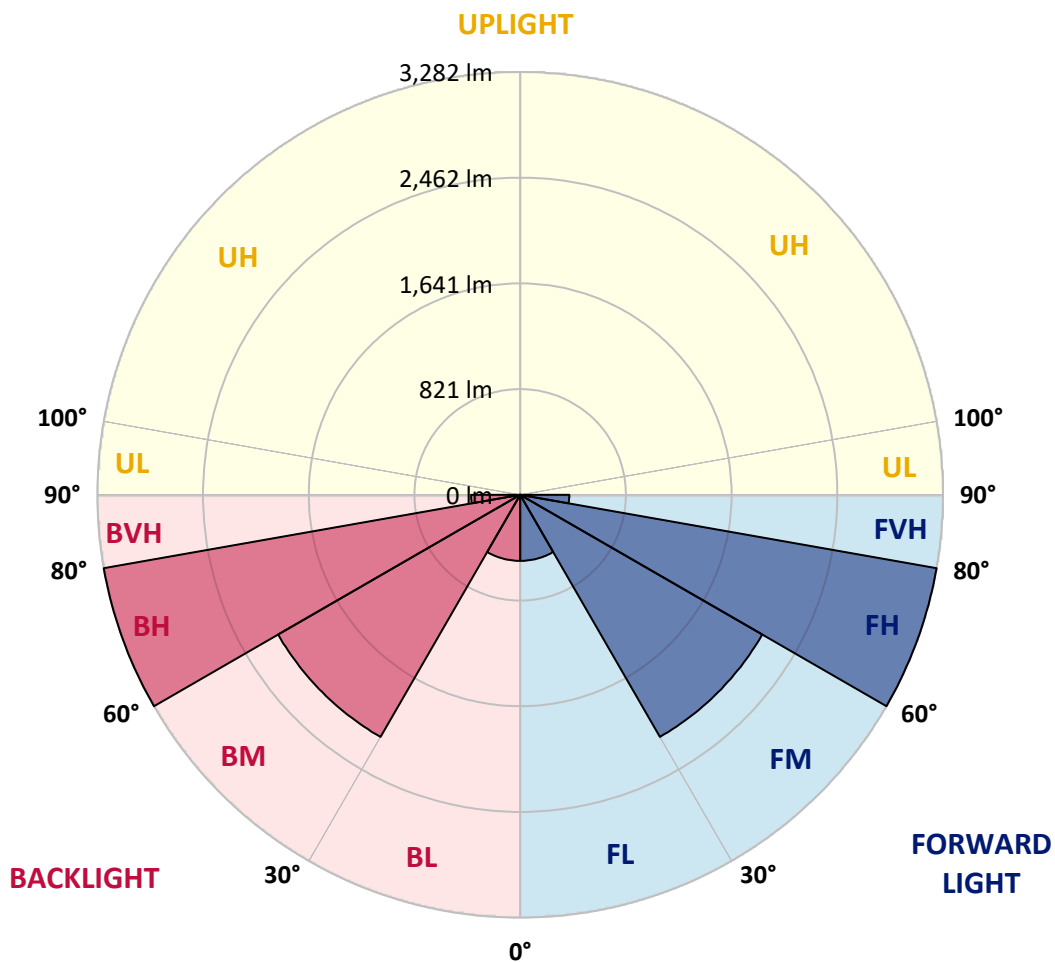
CATALOG NUMBER: LDRV-5XQ-E04-E-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 512.5 | 4.0 | | | |
| FM | (30°-60°) | 2169.8 | 17.1 | | | |
| FH | (60°-80°) | 3282.1 | 25.9 | | | G2/5000 |
| FVH | (80°-90°) | 381.3 | 3.0 | | | G3/500 |
| BL | (0°-30°) | 512.5 | 4.0 | B2/1000 | | |
| BM | (30°-60°) | 2169.8 | 17.1 | B2/2500 | | |
| BH | (60°-80°) | 3282.1 | 25.9 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 381.3 | 3.0 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1198.5 | 1198.5 | 1198.5 | 1198.5 | 1198.5 | 1198.5 | 1198.5 | 1198.5 | 1198.5 | 1198.5 | 1198.5 |
| 2.5° | 1200.9 | 1200.5 | 1199.7 | 1198.9 | 1198.5 | 1198.1 | 1198.1 | 1198.1 | 1197.8 | 1197.6 | 1197.9 |
| 5° | 1201.0 | 1200.6 | 1199.9 | 1199.3 | 1198.7 | 1198.1 | 1198.1 | 1198.1 | 1197.9 | 1197.6 | 1198.1 |
| 7.5° | 1199.3 | 1199.7 | 1199.1 | 1198.5 | 1198.3 | 1198.0 | 1197.9 | 1197.7 | 1197.3 | 1196.8 | 1197.1 |
| 10° | 1199.8 | 1201.4 | 1200.1 | 1198.9 | 1198.5 | 1198.1 | 1197.3 | 1196.4 | 1196.2 | 1196.0 | 1195.6 |
| 12.5° | 1200.6 | 1202.2 | 1200.8 | 1199.3 | 1198.7 | 1198.1 | 1197.2 | 1196.4 | 1195.8 | 1195.2 | 1194.6 |
| 15° | 1203.0 | 1204.2 | 1203.0 | 1201.8 | 1200.6 | 1199.3 | 1198.5 | 1197.6 | 1196.4 | 1195.2 | 1194.6 |
| 17.5° | 1204.6 | 1206.7 | 1205.2 | 1203.8 | 1202.4 | 1201.0 | 1200.2 | 1199.3 | 1198.5 | 1197.6 | 1196.6 |
| 20° | 1207.5 | 1209.6 | 1208.4 | 1207.1 | 1206.3 | 1205.5 | 1204.9 | 1204.2 | 1203.6 | 1203.0 | 1201.6 |
| 22.5° | 1212.8 | 1214.5 | 1214.1 | 1213.7 | 1213.9 | 1214.1 | 1214.3 | 1214.5 | 1214.1 | 1213.7 | 1212.2 |
| 25° | 1223.9 | 1224.0 | 1224.8 | 1225.6 | 1226.8 | 1228.0 | 1229.1 | 1230.1 | 1230.7 | 1231.3 | 1229.4 |
| 27.5° | 1243.2 | 1244.8 | 1245.5 | 1246.1 | 1248.2 | 1250.2 | 1252.4 | 1254.7 | 1255.9 | 1257.2 | 1255.3 |
| 30° | 1268.3 | 1268.3 | 1269.7 | 1271.2 | 1274.6 | 1278.1 | 1281.0 | 1283.8 | 1286.1 | 1288.4 | 1286.9 |
| 32.5° | 1300.2 | 1302.3 | 1304.4 | 1306.4 | 1310.8 | 1315.0 | 1320.0 | 1324.9 | 1327.8 | 1330.6 | 1328.4 |
| 35° | 1349.1 | 1351.6 | 1353.6 | 1355.7 | 1360.2 | 1364.7 | 1370.2 | 1375.8 | 1378.3 | 1380.8 | 1379.3 |
| 37.5° | 1418.1 | 1418.1 | 1421.0 | 1423.9 | 1426.7 | 1429.6 | 1436.9 | 1444.4 | 1447.4 | 1450.5 | 1448.1 |
| 40° | 1511.2 | 1511.7 | 1512.3 | 1512.9 | 1515.6 | 1518.2 | 1527.2 | 1536.3 | 1541.6 | 1547.0 | 1541.8 |
| 42.5° | 1618.4 | 1622.9 | 1622.7 | 1622.5 | 1624.3 | 1626.1 | 1634.8 | 1643.4 | 1651.0 | 1658.6 | 1655.5 |
| 45° | 1744.8 | 1744.0 | 1742.3 | 1740.7 | 1746.2 | 1751.8 | 1764.1 | 1776.4 | 1783.2 | 1790.0 | 1783.6 |
| 47.5° | 1872.4 | 1871.2 | 1869.0 | 1866.7 | 1872.2 | 1877.8 | 1896.3 | 1914.8 | 1924.4 | 1934.0 | 1923.8 |
| 50° | 1999.6 | 2004.6 | 2001.7 | 1998.8 | 2007.0 | 2015.2 | 2038.6 | 2062.0 | 2076.2 | 2090.4 | 2078.4 |
| 52.5° | 2140.4 | 2144.1 | 2140.9 | 2137.6 | 2148.9 | 2160.1 | 2187.8 | 2215.6 | 2234.4 | 2253.4 | 2237.4 |
| 55° | 2286.2 | 2281.6 | 2283.5 | 2285.3 | 2296.0 | 2306.7 | 2340.8 | 2374.8 | 2397.4 | 2420.0 | 2401.9 |
| 57.5° | 2422.4 | 2424.0 | 2422.2 | 2420.4 | 2437.2 | 2454.0 | 2496.9 | 2539.8 | 2568.2 | 2596.5 | 2573.9 |
| 60° | 2562.0 | 2562.4 | 2558.3 | 2554.2 | 2572.5 | 2590.8 | 2652.3 | 2713.8 | 2750.5 | 2787.3 | 2756.3 |
| 62.5° | 2718.0 | 2717.6 | 2710.4 | 2703.2 | 2724.7 | 2746.3 | 2822.6 | 2899.0 | 2949.4 | 2999.9 | 2962.1 |
| 65° | 2909.2 | 2904.3 | 2900.2 | 2896.0 | 2920.9 | 2945.8 | 3040.6 | 3135.4 | 3203.5 | 3271.6 | 3223.0 |
| 67.5° | 3191.2 | 3187.5 | 3178.9 | 3170.2 | 3198.0 | 3225.6 | 3347.2 | 3468.6 | 3556.7 | 3644.8 | 3580.5 |
| 70° | 3501.5 | 3494.5 | 3500.4 | 3506.4 | 3570.4 | 3634.4 | 3797.4 | 3960.4 | 4064.6 | 4168.8 | 4060.9 |
| 72° | 3348.4 | 3351.2 | 3371.2 | 3391.0 | 3503.3 | 3615.6 | 3847.1 | 4078.6 | 4229.4 | 4380.2 | 4213.4 |
| 72.5° | 3295.0 | 3297.4 | 3320.0 | 3342.6 | 3449.8 | 3556.9 | 3795.6 | 4034.2 | 4190.4 | 4346.6 | 4175.0 |
| 75° | 3068.5 | 3075.0 | 3101.1 | 3127.2 | 3235.7 | 3344.2 | 3585.0 | 3825.7 | 3975.3 | 4125.0 | 3953.2 |
| 77.5° | 2698.6 | 2719.2 | 2745.6 | 2772.1 | 2901.4 | 3030.7 | 3302.8 | 3575.0 | 3740.2 | 3905.4 | 3710.4 |
| 80° | 2059.6 | 2052.2 | 2097.8 | 2143.4 | 2266.9 | 2390.4 | 2601.0 | 2811.5 | 3001.8 | 3192.0 | 2972.8 |
| 82.5° | 800.4 | 818.0 | 912.4 | 1006.8 | 1136.3 | 1265.8 | 1454.4 | 1643.0 | 1814.4 | 1985.7 | 1803.3 |
| 85° | 82.5 | 94.0 | 127.8 | 161.7 | 232.3 | 302.9 | 417.8 | 532.8 | 645.4 | 758.1 | 635.8 |
| 87.5° | 33.2 | 36.5 | 47.0 | 57.5 | 60.2 | 62.8 | 75.9 | 89.0 | 88.4 | 87.8 | 86.6 |
| 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-5XQ-E04-E-7050

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1198.5 | 1198.5 | 1198.5 | 1198.5 | 1198.5 | 1198.5 | 1198.5 | 1198.5 |
| 2.5° | 1198.1 | 1198.5 | 1198.9 | 1198.9 | 1198.9 | 1199.5 | 1200.2 | 1199.3 |
| 5° | 1198.5 | 1198.7 | 1198.9 | 1198.9 | 1198.9 | 1199.5 | 1200.2 | 1199.3 |
| 7.5° | 1197.2 | 1197.3 | 1197.3 | 1197.9 | 1198.5 | 1198.7 | 1198.9 | 1198.5 |
| 10° | 1195.2 | 1195.4 | 1195.6 | 1196.2 | 1196.8 | 1197.5 | 1198.1 | 1198.5 |
| 12.5° | 1194.0 | 1194.2 | 1194.4 | 1195.0 | 1195.6 | 1196.2 | 1196.8 | 1197.7 |
| 15° | 1194.0 | 1194.2 | 1194.4 | 1194.8 | 1195.2 | 1196.0 | 1196.8 | 1197.7 |
| 17.5° | 1195.6 | 1195.2 | 1194.8 | 1195.2 | 1195.6 | 1196.6 | 1197.6 | 1198.5 |
| 20° | 1200.2 | 1199.5 | 1198.9 | 1198.9 | 1198.9 | 1199.9 | 1200.9 | 1201.0 |
| 22.5° | 1210.8 | 1208.8 | 1206.7 | 1206.3 | 1205.8 | 1206.1 | 1206.3 | 1206.7 |
| 25° | 1227.6 | 1224.4 | 1221.1 | 1220.1 | 1219.0 | 1218.6 | 1218.2 | 1219.0 |
| 27.5° | 1253.5 | 1249.8 | 1246.1 | 1243.9 | 1241.6 | 1240.4 | 1239.2 | 1239.5 |
| 30° | 1285.5 | 1281.2 | 1276.9 | 1273.2 | 1269.5 | 1267.9 | 1266.2 | 1266.6 |
| 32.5° | 1326.2 | 1321.0 | 1315.8 | 1311.0 | 1306.1 | 1303.8 | 1301.5 | 1301.9 |
| 35° | 1377.9 | 1371.9 | 1366.0 | 1361.9 | 1357.8 | 1354.2 | 1350.8 | 1353.6 |
| 37.5° | 1445.6 | 1440.0 | 1434.4 | 1431.8 | 1429.2 | 1426.1 | 1423.0 | 1423.4 |
| 40° | 1536.7 | 1531.0 | 1525.2 | 1522.9 | 1520.6 | 1516.8 | 1512.9 | 1513.7 |
| 42.5° | 1652.4 | 1643.8 | 1635.2 | 1631.1 | 1627.0 | 1625.2 | 1623.3 | 1624.5 |
| 45° | 1777.2 | 1768.6 | 1760.0 | 1756.5 | 1753.0 | 1748.1 | 1743.2 | 1747.7 |
| 47.5° | 1913.5 | 1902.6 | 1891.8 | 1885.6 | 1879.4 | 1881.0 | 1882.7 | 1879.0 |
| 50° | 2066.6 | 2048.3 | 2030.0 | 2022.9 | 2015.7 | 2015.7 | 2015.6 | 2015.3 |
| 52.5° | 2221.4 | 2196.1 | 2170.8 | 2164.6 | 2158.5 | 2157.1 | 2155.6 | 2154.0 |
| 55° | 2383.9 | 2352.9 | 2321.9 | 2310.4 | 2298.8 | 2300.5 | 2302.2 | 2306.7 |
| 57.5° | 2551.3 | 2510.5 | 2469.6 | 2456.5 | 2443.4 | 2444.4 | 2445.4 | 2452.8 |
| 60° | 2725.4 | 2672.6 | 2619.9 | 2605.3 | 2590.7 | 2594.6 | 2598.5 | 2603.0 |
| 62.5° | 2924.4 | 2860.6 | 2796.8 | 2777.3 | 2757.8 | 2762.7 | 2767.6 | 2779.5 |
| 65° | 3174.4 | 3094.7 | 3015.1 | 2994.8 | 2974.4 | 2976.7 | 2979.0 | 2999.5 |
| 67.5° | 3516.2 | 3410.2 | 3304.0 | 3285.4 | 3266.7 | 3270.0 | 3273.3 | 3306.5 |
| 70° | 3953.0 | 3795.8 | 3638.6 | 3561.2 | 3483.8 | 3471.7 | 3459.6 | 3477.3 |
| 72° | 4046.6 | 3824.5 | 3602.4 | 3488.4 | 3374.2 | 3356.4 | 3338.6 | 3340.2 |
| 72.5° | 4003.4 | 3779.0 | 3554.4 | 3443.6 | 3332.8 | 3318.2 | 3303.6 | 3300.8 |
| 75° | 3781.4 | 3561.8 | 3342.2 | 3227.7 | 3113.2 | 3085.5 | 3057.8 | 3057.8 |
| 77.5° | 3515.4 | 3238.6 | 2961.8 | 2838.2 | 2714.6 | 2685.7 | 2656.8 | 2634.2 |
| 80° | 2753.6 | 2505.5 | 2257.4 | 2132.0 | 2006.6 | 1960.3 | 1913.9 | 1886.4 |
| 82.5° | 1620.8 | 1392.6 | 1164.4 | 1005.2 | 846.0 | 798.1 | 750.3 | 683.8 |
| 85° | 513.4 | 395.0 | 276.6 | 215.8 | 155.1 | 125.4 | 95.6 | 83.7 |
| 87.5° | 85.4 | 69.4 | 53.4 | 51.5 | 49.7 | 39.0 | 28.3 | 23.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)