

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: P146918

Luminaire Tested: **LDRC-T4-E03-E-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146918
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-E03-E-8030
Description: RC LED ROADWAY SMALL CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7440.5 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

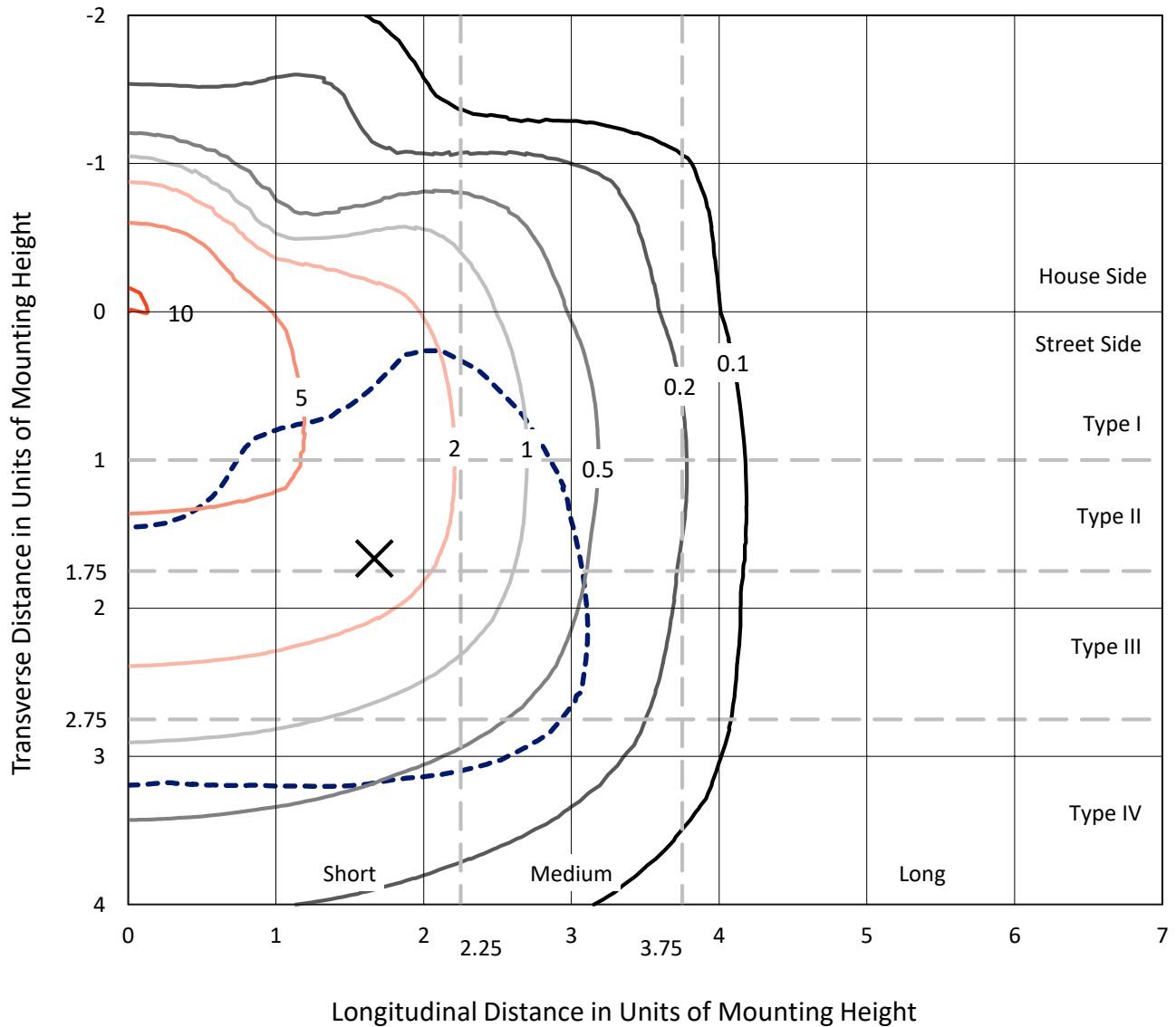
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

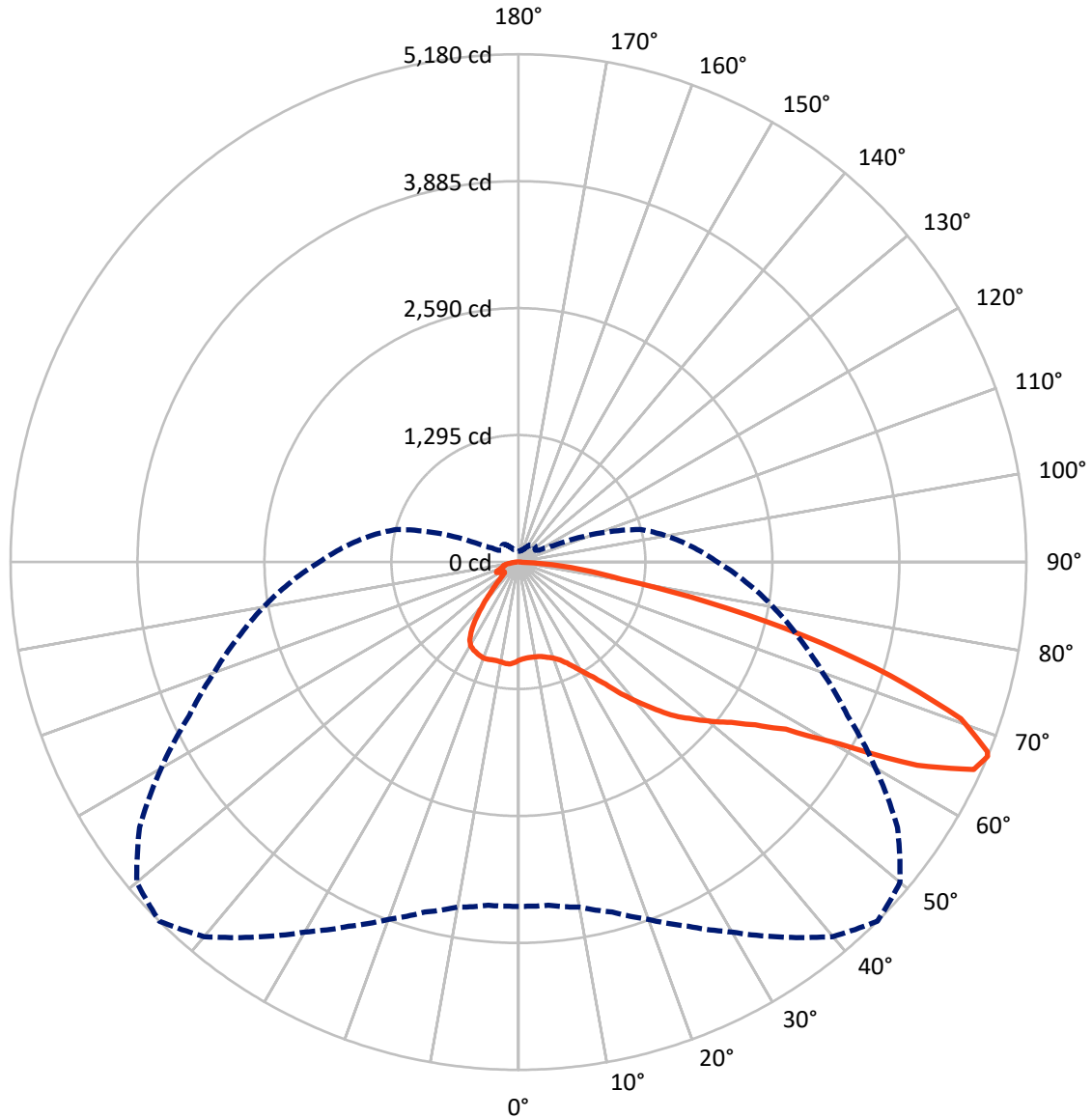
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.2 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 | 1507.6 | 0.0 | 1507.6 |
| | % Fixture | 20.3 | 0.0 | 20.3 |
| Street Side | Lumens | 5932.9 | 0.0 | 5932.9 |
| | % Fixture | 79.7 | 0.0 | 79.7 |
| Total | Lumens | 7440.5 | 0.0 | 7440.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 96.5 | 1.3 |
| 10°-20° | 289.9 | 3.9 |
| 20°-30° | 492.7 | 6.6 |
| 30°-40° | 740.5 | 10.0 |
| 40°-50° | 962.8 | 12.9 |
| 50°-60° | 1321.9 | 17.8 |
| 60°-70° | 2085.3 | 28.0 |
| 70°-80° | 1260.0 | 16.9 |
| 80°-90° | 190.9 | 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° | 7440.5 | 100.0 |
| 0°-180° | 7440.5 | 100.0 |



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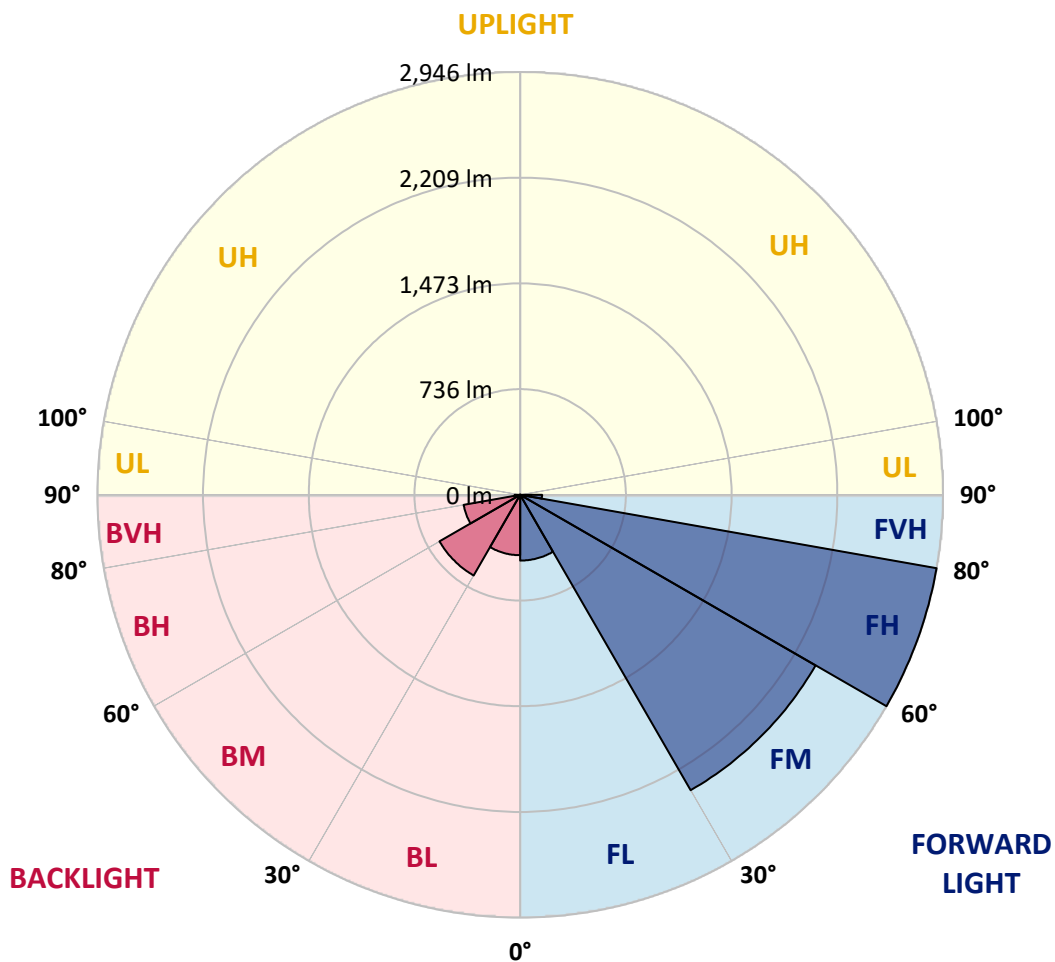
CATALOG NUMBER: LDRC-T4-E03-E-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 458.2 | 6.2 | | | |
| FM | (30°-60°) | 2376.4 | 31.9 | | | |
| FH | (60°-80°) | 2945.8 | 39.6 | | | G2/5000 |
| FVH | (80°-90°) | 152.4 | 2.0 | | | G2/225 |
| BL | (0°-30°) | 420.9 | 5.7 | B1/500 | | |
| BM | (30°-60°) | 648.8 | 8.7 | B1/1000 | | |
| BH | (60°-80°) | 399.5 | 5.4 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 38.5 | 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-G2

Type IV Short





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CATALOG NUMBER: LDRC-T4-E03-E-8030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1001.6 | 1001.6 | 1001.6 | 1001.6 | 1001.6 | 1001.6 | 1001.6 | 1001.6 | 1001.6 | 1001.6 | 1001.6 |
| 2.5° | 979.4 | 981.4 | 979.9 | 979.9 | 980.4 | 980.9 | 981.9 | 983.9 | 984.4 | 987.5 | 988.0 |
| 5° | 959.6 | 960.1 | 960.1 | 960.6 | 963.7 | 966.2 | 968.7 | 972.3 | 975.3 | 980.9 | 984.4 |
| 7.5° | 952.5 | 954.6 | 954.0 | 955.1 | 958.1 | 960.6 | 963.7 | 968.7 | 976.3 | 980.9 | 986.0 |
| 10° | 964.2 | 965.7 | 964.2 | 964.7 | 965.2 | 967.7 | 968.7 | 972.3 | 978.4 | 982.4 | 987.0 |
| 12.5° | 991.0 | 991.0 | 989.5 | 988.5 | 987.0 | 987.5 | 985.4 | 984.9 | 988.0 | 988.5 | 989.0 |
| 15° | 1026.5 | 1030.5 | 1025.4 | 1021.4 | 1019.4 | 1017.3 | 1010.8 | 1008.2 | 1007.7 | 1003.2 | 998.6 |
| 17.5° | 1062.4 | 1063.4 | 1060.4 | 1055.8 | 1052.8 | 1048.2 | 1042.7 | 1037.6 | 1031.5 | 1024.4 | 1015.3 |
| 20° | 1102.4 | 1102.9 | 1098.9 | 1092.3 | 1088.7 | 1083.2 | 1076.1 | 1067.5 | 1059.9 | 1048.7 | 1038.6 |
| 22.5° | 1158.1 | 1157.6 | 1149.5 | 1143.9 | 1138.9 | 1132.3 | 1122.2 | 1110.5 | 1098.4 | 1085.2 | 1071.0 |
| 25° | 1221.9 | 1221.9 | 1216.4 | 1207.2 | 1204.7 | 1195.1 | 1184.0 | 1170.3 | 1157.6 | 1138.9 | 1121.7 |
| 27.5° | 1294.9 | 1295.4 | 1285.2 | 1280.2 | 1274.6 | 1264.5 | 1256.9 | 1246.2 | 1229.0 | 1210.3 | 1192.6 |
| 30° | 1381.4 | 1378.9 | 1370.8 | 1360.2 | 1358.2 | 1350.0 | 1339.4 | 1331.8 | 1310.5 | 1297.4 | 1277.6 |
| 32.5° | 1463.5 | 1467.5 | 1465.5 | 1453.4 | 1455.4 | 1447.3 | 1438.2 | 1432.6 | 1410.3 | 1397.6 | 1379.4 |
| 35° | 1586.0 | 1589.6 | 1592.6 | 1588.1 | 1590.6 | 1586.0 | 1578.4 | 1563.7 | 1545.5 | 1528.8 | 1503.5 |
| 37.5° | 1681.2 | 1684.8 | 1686.8 | 1697.9 | 1714.1 | 1729.8 | 1736.9 | 1729.3 | 1730.4 | 1705.0 | 1671.1 |
| 40° | 1759.2 | 1767.8 | 1780.0 | 1801.2 | 1833.7 | 1863.5 | 1879.7 | 1892.4 | 1899.0 | 1875.2 | 1831.1 |
| 42.5° | 1837.2 | 1846.3 | 1863.0 | 1897.0 | 1941.5 | 1984.6 | 2018.5 | 2057.5 | 2064.6 | 2058.5 | 2021.0 |
| 45° | 1918.7 | 1929.4 | 1950.1 | 1988.6 | 2040.8 | 2097.0 | 2151.7 | 2206.9 | 2234.7 | 2239.3 | 2193.7 |
| 47.5° | 2017.0 | 2032.2 | 2051.4 | 2095.0 | 2145.6 | 2208.9 | 2277.3 | 2348.2 | 2391.7 | 2391.7 | 2339.0 |
| 50° | 2139.5 | 2156.7 | 2172.9 | 2216.5 | 2267.1 | 2332.5 | 2411.5 | 2490.4 | 2549.7 | 2553.2 | 2489.4 |
| 52.5° | 2311.2 | 2313.7 | 2323.3 | 2363.3 | 2407.4 | 2480.3 | 2555.3 | 2646.9 | 2715.3 | 2718.3 | 2644.9 |
| 55° | 2519.8 | 2519.8 | 2531.0 | 2564.4 | 2605.4 | 2665.7 | 2743.1 | 2844.9 | 2916.8 | 2932.5 | 2838.3 |
| 57.5° | 2794.3 | 2804.4 | 2810.0 | 2849.0 | 2876.8 | 2940.6 | 3005.5 | 3116.4 | 3208.0 | 3218.1 | 3122.4 |
| 60° | 3240.9 | 3221.7 | 3252.6 | 3287.0 | 3352.3 | 3398.9 | 3509.3 | 3620.7 | 3737.7 | 3765.5 | 3662.8 |
| 62.5° | 3681.0 | 3701.7 | 3739.7 | 3802.0 | 3913.9 | 4018.2 | 4176.2 | 4345.4 | 4527.2 | 4564.6 | 4486.1 |
| 65° | 3708.3 | 3721.0 | 3773.7 | 3881.0 | 4033.9 | 4219.8 | 4437.5 | 4692.3 | 4963.2 | 5103.4 | 4971.8 |
| 67° | 3511.8 | 3515.4 | 3575.1 | 3697.2 | 3880.5 | 4100.8 | 4358.5 | 4669.5 | 4987.5 | 5180.4 | 5082.2 |
| 67.5° | 3449.6 | 3456.1 | 3514.9 | 3639.5 | 3824.8 | 4050.1 | 4313.0 | 4632.5 | 4958.1 | 5159.7 | 5071.0 |
| 70° | 3083.9 | 3083.9 | 3147.2 | 3272.8 | 3446.5 | 3666.3 | 3941.3 | 4263.8 | 4617.8 | 4787.5 | 4712.0 |
| 72.5° | 2625.1 | 2608.4 | 2679.8 | 2775.0 | 2916.8 | 3108.8 | 3330.1 | 3584.8 | 3851.1 | 3974.7 | 3944.8 |
| 75° | 1908.1 | 1939.5 | 1976.5 | 2046.8 | 2169.9 | 2321.3 | 2450.9 | 2678.3 | 2887.5 | 3024.2 | 2988.2 |
| 77.5° | 1041.1 | 1053.3 | 1155.6 | 1197.6 | 1305.5 | 1417.9 | 1560.2 | 1719.7 | 1884.3 | 1970.4 | 1935.4 |
| 80° | 618.8 | 642.6 | 703.4 | 753.5 | 811.8 | 897.3 | 1000.6 | 1035.6 | 1068.0 | 1066.0 | 1002.7 |
| 82.5° | 390.9 | 419.8 | 485.6 | 528.7 | 559.1 | 608.7 | 664.9 | 709.0 | 718.6 | 671.0 | 597.5 |
| 85° | 63.3 | 104.8 | 274.0 | 322.1 | 341.3 | 368.1 | 409.7 | 428.4 | 400.1 | 349.4 | 362.1 |
| 87.5° | 24.8 | 29.9 | 83.6 | 105.8 | 111.9 | 58.7 | 101.8 | 119.5 | 60.8 | 30.9 | 69.9 |
| 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: LDRC-T4-E03-E-8030

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1001.6 | 1001.6 | 1001.6 | 1001.6 | 1001.6 | 1001.6 | 1001.6 | 1001.6 | 1001.6 | 1001.6 | 1001.6 |
| 2.5° | 991.0 | 993.5 | 996.1 | 999.1 | 1000.1 | 1002.7 | 1007.2 | 1006.7 | 1010.3 | 1011.8 | 1014.3 |
| 5° | 989.0 | 994.6 | 998.6 | 1004.2 | 1006.2 | 1011.8 | 1017.9 | 1019.9 | 1024.4 | 1028.0 | 1031.0 |
| 7.5° | 993.0 | 999.1 | 1004.2 | 1010.8 | 1015.3 | 1019.9 | 1024.4 | 1030.0 | 1034.1 | 1036.6 | 1038.6 |
| 10° | 994.6 | 1001.1 | 1007.2 | 1012.8 | 1017.9 | 1021.4 | 1026.5 | 1031.0 | 1035.1 | 1036.6 | 1037.1 |
| 12.5° | 995.1 | 999.6 | 1005.7 | 1011.8 | 1016.3 | 1020.9 | 1024.4 | 1029.5 | 1032.5 | 1033.0 | 1032.0 |
| 15° | 999.1 | 999.6 | 1003.7 | 1010.8 | 1015.3 | 1019.9 | 1022.4 | 1024.9 | 1027.0 | 1025.4 | 1023.9 |
| 17.5° | 1011.3 | 1007.7 | 1007.7 | 1011.3 | 1013.8 | 1015.8 | 1016.3 | 1015.8 | 1013.8 | 1010.8 | 1008.2 |
| 20° | 1031.0 | 1023.9 | 1018.4 | 1016.3 | 1012.3 | 1007.2 | 1000.6 | 994.6 | 987.0 | 983.4 | 982.9 |
| 22.5° | 1061.9 | 1051.3 | 1041.1 | 1031.0 | 1017.9 | 1003.2 | 988.0 | 974.8 | 964.2 | 958.6 | 959.1 |
| 25° | 1114.6 | 1098.9 | 1087.2 | 1069.5 | 1048.2 | 1027.5 | 1007.7 | 990.0 | 977.3 | 967.2 | 969.2 |
| 27.5° | 1185.5 | 1167.7 | 1157.6 | 1137.4 | 1113.1 | 1086.7 | 1063.4 | 1039.1 | 1020.9 | 1008.2 | 1010.8 |
| 30° | 1268.5 | 1263.5 | 1246.7 | 1226.5 | 1203.7 | 1173.8 | 1138.9 | 1102.4 | 1069.5 | 1048.7 | 1044.7 |
| 32.5° | 1368.8 | 1363.2 | 1345.0 | 1327.8 | 1298.4 | 1265.5 | 1219.9 | 1162.2 | 1110.5 | 1071.0 | 1053.8 |
| 35° | 1492.3 | 1478.7 | 1456.4 | 1439.7 | 1406.8 | 1364.2 | 1305.5 | 1227.5 | 1149.0 | 1089.8 | 1046.7 |
| 37.5° | 1646.3 | 1612.4 | 1575.4 | 1531.8 | 1483.2 | 1431.6 | 1363.7 | 1272.6 | 1175.3 | 1091.3 | 1014.8 |
| 40° | 1793.1 | 1738.5 | 1677.2 | 1608.3 | 1549.1 | 1486.8 | 1416.4 | 1312.1 | 1193.1 | 1080.6 | 966.7 |
| 42.5° | 1956.7 | 1871.6 | 1788.6 | 1693.9 | 1615.9 | 1542.0 | 1461.5 | 1339.9 | 1196.6 | 1051.8 | 904.4 |
| 45° | 2114.2 | 2004.8 | 1893.4 | 1776.4 | 1677.2 | 1595.1 | 1503.5 | 1363.7 | 1195.6 | 1021.4 | 842.6 |
| 47.5° | 2254.5 | 2123.8 | 1986.1 | 1854.4 | 1739.0 | 1648.8 | 1548.6 | 1396.1 | 1209.3 | 1012.8 | 801.6 |
| 50° | 2385.6 | 2234.7 | 2073.2 | 1926.8 | 1801.2 | 1709.1 | 1605.8 | 1447.3 | 1251.3 | 1032.5 | 795.5 |
| 52.5° | 2520.8 | 2356.8 | 2171.9 | 2014.4 | 1883.3 | 1776.4 | 1672.1 | 1512.6 | 1310.0 | 1073.1 | 809.2 |
| 55° | 2697.1 | 2508.7 | 2311.7 | 2137.0 | 1986.6 | 1871.6 | 1751.1 | 1591.6 | 1373.3 | 1120.1 | 835.0 |
| 57.5° | 2959.4 | 2739.1 | 2515.3 | 2327.4 | 2153.7 | 2010.4 | 1878.2 | 1695.4 | 1478.2 | 1191.0 | 891.8 |
| 60° | 3430.3 | 3186.2 | 2927.0 | 2681.4 | 2481.3 | 2313.7 | 2145.6 | 1918.7 | 1671.6 | 1352.1 | 1021.9 |
| 62.5° | 4199.5 | 3861.8 | 3503.2 | 3180.2 | 2905.2 | 2678.3 | 2441.3 | 2168.9 | 1880.7 | 1547.5 | 1218.9 |
| 65° | 4661.9 | 4196.0 | 3739.7 | 3365.0 | 3039.9 | 2749.2 | 2462.6 | 2169.9 | 1890.9 | 1599.7 | 1307.5 |
| 67° | 4719.1 | 4208.1 | 3703.3 | 3304.2 | 2955.8 | 2639.3 | 2328.4 | 2029.1 | 1779.5 | 1535.4 | 1283.2 |
| 67.5° | 4701.9 | 4183.8 | 3668.8 | 3265.7 | 2913.8 | 2607.4 | 2301.6 | 1995.2 | 1752.1 | 1508.0 | 1265.0 |
| 70° | 4362.6 | 3855.7 | 3346.3 | 2954.3 | 2617.0 | 2303.6 | 2014.4 | 1707.6 | 1519.7 | 1345.0 | 1134.8 |
| 72.5° | 3620.7 | 3225.2 | 2798.3 | 2471.7 | 2180.5 | 1909.1 | 1654.9 | 1398.2 | 1247.2 | 1123.7 | 975.8 |
| 75° | 2684.9 | 2322.3 | 1961.3 | 1764.8 | 1538.9 | 1321.7 | 1125.2 | 935.3 | 877.1 | 847.7 | 760.6 |
| 77.5° | 1657.9 | 1332.3 | 1060.4 | 882.6 | 701.9 | 549.9 | 437.5 | 356.0 | 371.2 | 432.0 | 459.8 |
| 80° | 825.4 | 609.7 | 472.0 | 375.2 | 303.3 | 245.1 | 179.8 | 131.7 | 157.5 | 186.9 | 211.7 |
| 82.5° | 496.8 | 392.5 | 310.4 | 262.8 | 213.7 | 165.1 | 117.0 | 89.1 | 98.7 | 132.7 | 145.8 |
| 85° | 308.4 | 247.1 | 197.5 | 165.1 | 136.7 | 101.3 | 66.3 | 65.8 | 69.9 | 88.1 | 100.8 |
| 87.5° | 90.6 | 61.3 | 48.6 | 50.6 | 56.2 | 46.6 | 34.9 | 29.9 | 37.0 | 50.6 | 56.7 |
| 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: LDRC-T4-E03-E-8030

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1001.6 | 1001.6 | 1001.6 | 1001.6 | 1001.6 | 1001.6 | 1001.6 | 1001.6 | 1001.6 | 1001.6 | 1001.6 |
| 2.5° | 1014.8 | 1018.4 | 1019.9 | 1020.4 | 1020.9 | 1023.9 | 1023.9 | 1027.0 | 1028.0 | 1028.0 | 1029.0 |
| 5° | 1034.1 | 1037.6 | 1039.1 | 1039.6 | 1040.6 | 1042.2 | 1041.7 | 1043.7 | 1044.7 | 1044.2 | 1044.2 |
| 7.5° | 1041.1 | 1042.2 | 1042.2 | 1043.7 | 1045.2 | 1043.7 | 1042.7 | 1043.7 | 1043.2 | 1043.7 | 1043.7 |
| 10° | 1038.6 | 1037.6 | 1037.6 | 1036.6 | 1038.1 | 1035.1 | 1035.1 | 1036.1 | 1035.6 | 1036.6 | 1038.1 |
| 12.5° | 1032.5 | 1032.0 | 1030.5 | 1030.0 | 1032.0 | 1030.0 | 1030.5 | 1032.0 | 1033.0 | 1035.1 | 1037.6 |
| 15° | 1023.9 | 1022.4 | 1022.4 | 1024.4 | 1029.5 | 1031.0 | 1033.0 | 1035.6 | 1036.1 | 1037.1 | 1038.1 |
| 17.5° | 1009.2 | 1011.8 | 1017.9 | 1024.9 | 1034.6 | 1038.1 | 1039.1 | 1037.6 | 1032.5 | 1028.5 | 1024.4 |
| 20° | 989.0 | 1000.1 | 1015.8 | 1031.0 | 1042.7 | 1042.2 | 1035.6 | 1026.0 | 1013.8 | 1005.2 | 999.6 |
| 22.5° | 971.8 | 993.5 | 1017.9 | 1036.1 | 1043.7 | 1034.1 | 1018.9 | 1004.2 | 990.0 | 977.3 | 966.2 |
| 25° | 983.9 | 1004.7 | 1025.4 | 1036.6 | 1036.1 | 1019.4 | 999.1 | 982.9 | 963.7 | 945.9 | 927.2 |
| 27.5° | 1023.4 | 1036.1 | 1042.2 | 1038.6 | 1028.0 | 1005.7 | 983.4 | 960.6 | 935.8 | 914.5 | 892.8 |
| 30° | 1050.3 | 1050.3 | 1044.2 | 1030.0 | 1011.3 | 986.5 | 959.1 | 929.7 | 900.4 | 875.6 | 850.7 |
| 32.5° | 1041.7 | 1021.9 | 1004.2 | 984.9 | 963.7 | 936.8 | 905.4 | 873.5 | 840.1 | 811.2 | 790.0 |
| 35° | 1004.2 | 961.6 | 924.7 | 897.3 | 875.0 | 843.1 | 806.7 | 770.2 | 742.9 | 723.1 | 711.0 |
| 37.5° | 937.3 | 869.5 | 815.8 | 782.4 | 747.9 | 715.0 | 673.0 | 656.3 | 632.0 | 619.8 | 615.3 |
| 40° | 856.3 | 757.1 | 689.7 | 646.7 | 610.2 | 569.2 | 540.8 | 530.2 | 521.1 | 518.5 | 516.5 |
| 42.5° | 763.1 | 639.1 | 559.1 | 514.5 | 470.4 | 440.6 | 427.9 | 421.3 | 419.8 | 419.8 | 422.3 |
| 45° | 666.4 | 519.1 | 426.9 | 390.9 | 354.5 | 338.8 | 335.7 | 332.7 | 333.2 | 331.7 | 332.7 |
| 47.5° | 591.5 | 416.8 | 322.1 | 289.2 | 270.4 | 265.4 | 261.8 | 260.8 | 260.8 | 258.3 | 255.2 |
| 50° | 552.5 | 348.4 | 252.7 | 226.9 | 216.2 | 212.7 | 212.7 | 210.7 | 206.6 | 204.1 | 197.5 |
| 52.5° | 542.3 | 313.0 | 218.8 | 196.5 | 187.4 | 184.3 | 181.3 | 178.3 | 172.2 | 166.6 | 159.0 |
| 55° | 550.5 | 301.8 | 208.1 | 187.4 | 177.2 | 173.7 | 171.2 | 166.1 | 157.5 | 149.4 | 140.8 |
| 57.5° | 584.4 | 308.9 | 212.2 | 189.9 | 180.8 | 178.3 | 175.7 | 168.1 | 157.5 | 145.8 | 136.2 |
| 60° | 677.0 | 342.3 | 229.4 | 203.6 | 196.0 | 196.5 | 192.9 | 183.3 | 168.1 | 151.4 | 137.2 |
| 62.5° | 796.6 | 388.9 | 251.7 | 222.8 | 221.8 | 226.9 | 226.9 | 210.2 | 185.3 | 160.0 | 140.8 |
| 65° | 864.9 | 403.6 | 254.7 | 225.3 | 234.0 | 248.6 | 247.6 | 225.3 | 191.4 | 160.0 | 139.3 |
| 67° | 847.7 | 387.9 | 242.1 | 210.7 | 220.8 | 237.5 | 235.5 | 214.2 | 182.3 | 153.4 | 135.2 |
| 67.5° | 834.0 | 382.8 | 239.0 | 207.1 | 217.2 | 230.9 | 230.9 | 209.6 | 178.3 | 151.4 | 133.7 |
| 70° | 734.3 | 338.3 | 223.8 | 193.4 | 193.4 | 197.0 | 194.5 | 179.3 | 158.0 | 139.3 | 127.6 |
| 72.5° | 612.2 | 295.7 | 211.7 | 183.8 | 174.2 | 172.2 | 168.6 | 158.0 | 144.3 | 131.2 | 121.0 |
| 75° | 474.5 | 261.8 | 202.1 | 173.7 | 161.0 | 156.5 | 152.9 | 144.8 | 134.2 | 123.1 | 114.4 |
| 77.5° | 332.2 | 224.3 | 189.4 | 165.1 | 151.4 | 147.9 | 142.3 | 133.2 | 124.6 | 115.0 | 106.8 |
| 80° | 206.1 | 185.3 | 165.1 | 148.9 | 134.7 | 129.6 | 122.5 | 114.4 | 107.4 | 101.8 | 95.7 |
| 82.5° | 146.9 | 136.2 | 123.1 | 114.4 | 99.8 | 84.6 | 90.6 | 91.2 | 86.6 | 83.0 | 81.5 |
| 85° | 98.2 | 88.6 | 82.0 | 74.4 | 65.8 | 59.2 | 60.8 | 65.3 | 65.8 | 64.3 | 64.3 |
| 87.5° | 53.7 | 45.6 | 44.1 | 45.6 | 39.5 | 37.5 | 38.0 | 42.0 | 42.5 | 42.5 | 43.0 |
| 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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| 42.5° | 422.3 | 427.4 | 422.3 | 421.3 |
| 45° | 331.7 | 337.3 | 337.3 | 338.8 |
| 47.5° | 255.7 | 254.7 | 256.7 | 257.2 |
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| 52.5° | 153.4 | 149.9 | 147.9 | 145.3 |
| 55° | 135.2 | 131.2 | 129.1 | 128.6 |
| 57.5° | 129.1 | 124.1 | 121.0 | 120.5 |
| 60° | 127.6 | 120.5 | 116.5 | 115.5 |
| 62.5° | 127.6 | 119.0 | 114.4 | 112.9 |
| 65° | 126.1 | 117.5 | 113.4 | 111.9 |
| 67° | 124.1 | 116.5 | 112.4 | 111.4 |
| 67.5° | 123.1 | 116.0 | 112.4 | 110.9 |
| 70° | 120.5 | 114.4 | 110.4 | 108.9 |
| 72.5° | 115.0 | 109.9 | 105.8 | 104.8 |
| 75° | 108.9 | 104.3 | 101.8 | 100.8 |
| 77.5° | 101.8 | 97.7 | 94.7 | 92.2 |
| 80° | 91.2 | 86.6 | 82.0 | 81.0 |
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