

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: P146926

Luminaire Tested: **LDRC-T4-F03-E-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146926
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-F03-E-7050
Description: RC LED ROADWAY SMALL CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7467.7 lumens
Efficiency: N/A
Efficacy: 95.4 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

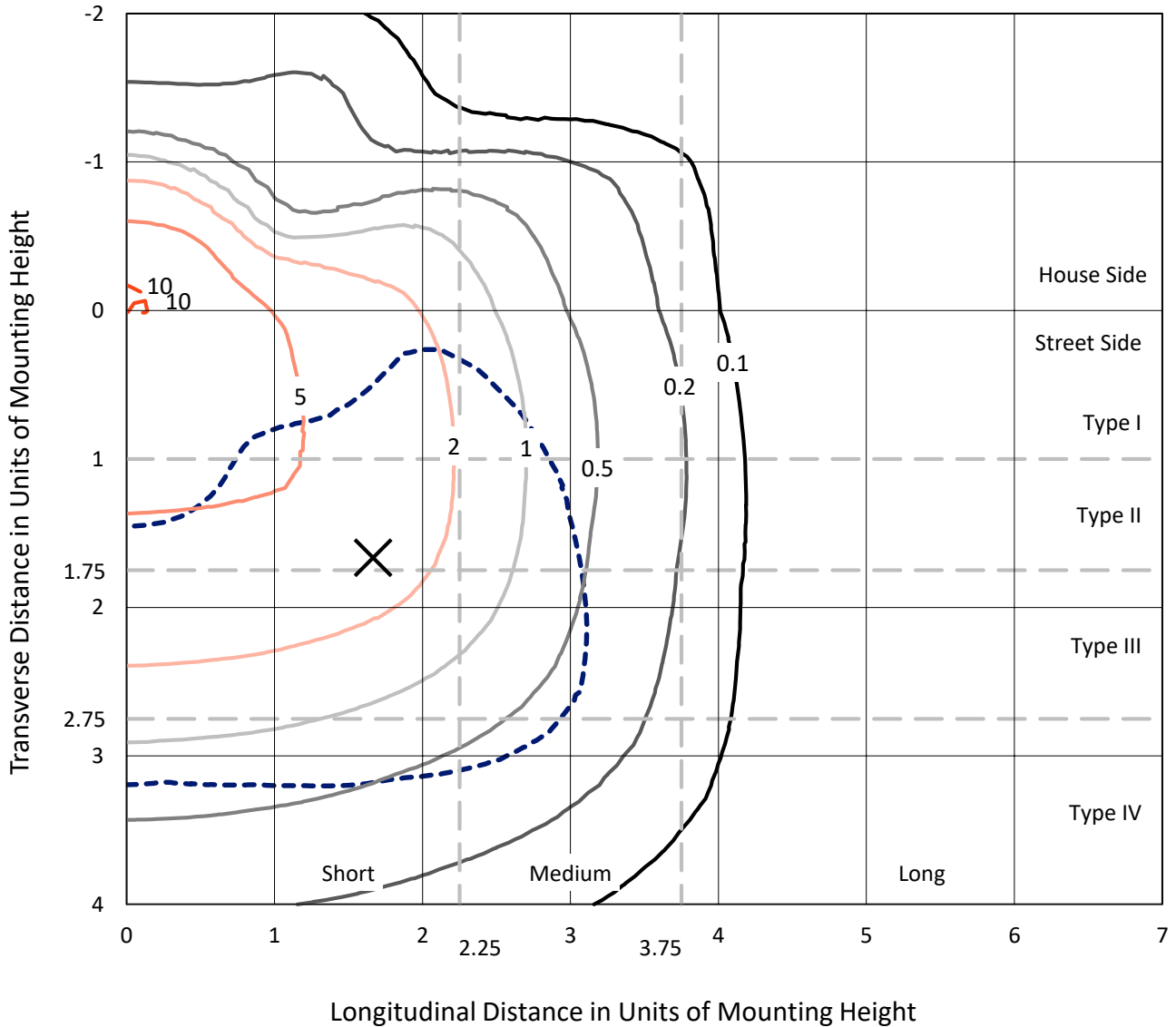
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

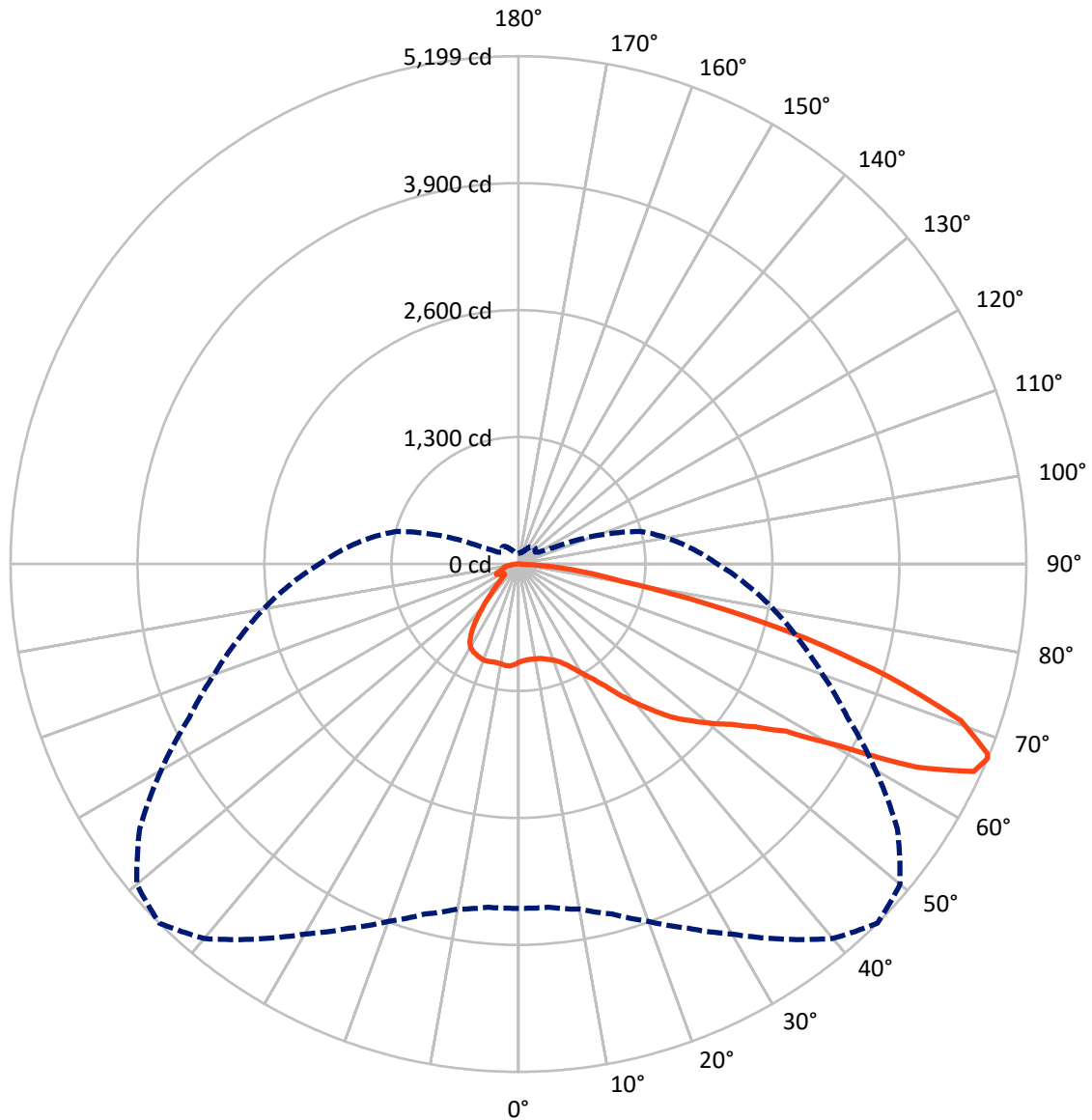
× Max cd
 - - - 1/2 Max cd



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 | 1513.1 | 0.0 | 1513.1 |
| | % Fixture | 20.3 | 0.0 | 20.3 |
| Street Side | Lumens | 5954.5 | 0.0 | 5954.5 |
| | % Fixture | 79.7 | 0.0 | 79.7 |
| Total | Lumens | 7467.7 | 0.0 | 7467.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 96.9 | 1.3 |
| 10°-20° | 290.9 | 3.9 |
| 20°-30° | 494.5 | 6.6 |
| 30°-40° | 743.2 | 10.0 |
| 40°-50° | 966.3 | 12.9 |
| 50°-60° | 1326.7 | 17.8 |
| 60°-70° | 2092.9 | 28.0 |
| 70°-80° | 1264.6 | 16.9 |
| 80°-90° | 191.6 | 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° | 7467.7 | 100.0 |
| 0°-180° | 7467.7 | 100.0 |



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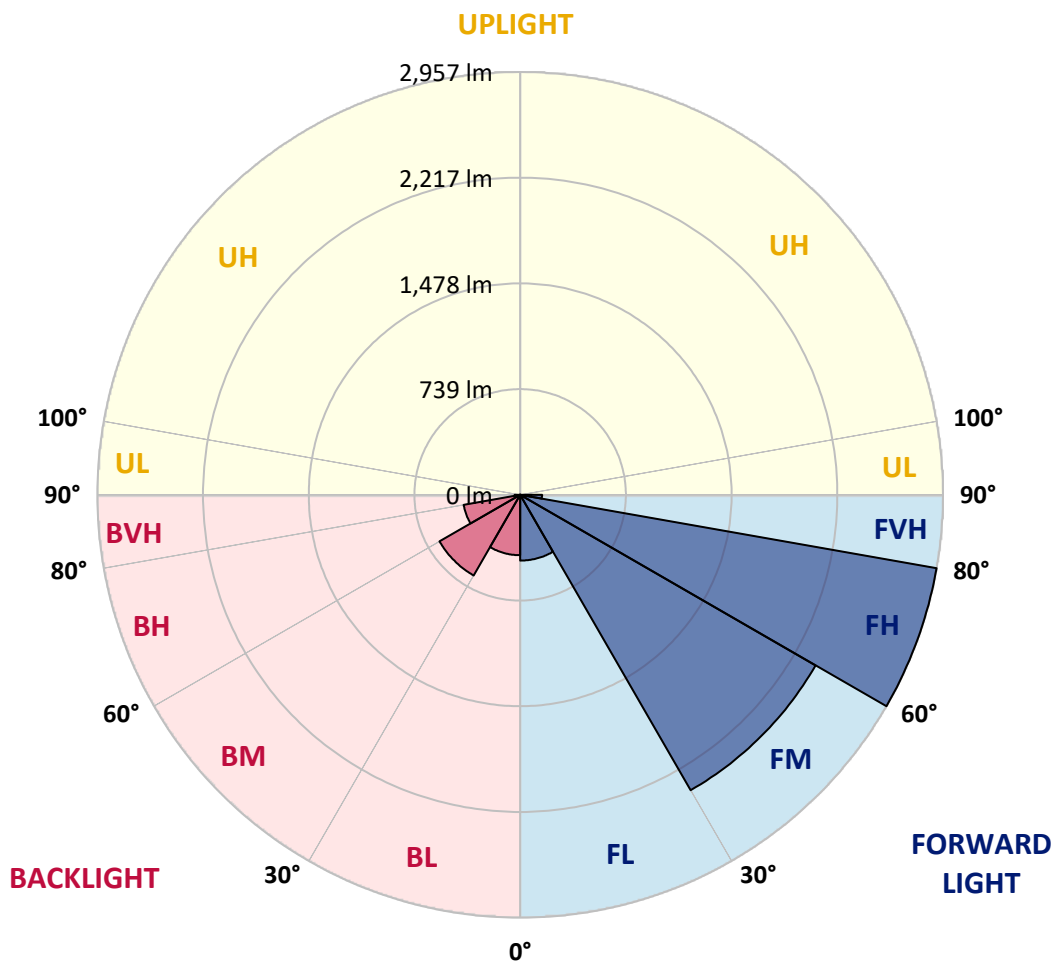
CATALOG NUMBER: LDRC-T4-F03-E-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 459.9 | 6.2 | | | |
| FM | (30°-60°) | 2385.1 | 31.9 | | | |
| FH | (60°-80°) | 2956.6 | 39.6 | | | G2/5000 |
| FVH | (80°-90°) | 153.0 | 2.0 | | | G2/225 |
| BL | (0°-30°) | 422.5 | 5.7 | B1/500 | | |
| BM | (30°-60°) | 651.1 | 8.7 | B1/1000 | | |
| BH | (60°-80°) | 400.9 | 5.4 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 38.6 | 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-F03-E-7050

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1005.3 | 1005.3 | 1005.3 | 1005.3 | 1005.3 | 1005.3 | 1005.3 | 1005.3 | 1005.3 | 1005.3 | 1005.3 |
| 2.5° | 982.9 | 985.0 | 983.5 | 983.5 | 984.0 | 984.5 | 985.5 | 987.5 | 988.0 | 991.1 | 991.6 |
| 5° | 963.1 | 963.6 | 963.6 | 964.1 | 967.2 | 969.7 | 972.3 | 975.8 | 978.9 | 984.5 | 988.0 |
| 7.5° | 956.0 | 958.0 | 957.5 | 958.6 | 961.6 | 964.1 | 967.2 | 972.3 | 979.9 | 984.5 | 989.6 |
| 10° | 967.7 | 969.2 | 967.7 | 968.2 | 968.7 | 971.3 | 972.3 | 975.8 | 981.9 | 986.0 | 990.6 |
| 12.5° | 994.6 | 994.6 | 993.1 | 992.1 | 990.6 | 991.1 | 989.0 | 988.5 | 991.6 | 992.1 | 992.6 |
| 15° | 1030.2 | 1034.3 | 1029.2 | 1025.1 | 1023.1 | 1021.1 | 1014.5 | 1011.9 | 1011.4 | 1006.8 | 1002.3 |
| 17.5° | 1066.3 | 1067.3 | 1064.3 | 1059.7 | 1056.6 | 1052.1 | 1046.5 | 1041.4 | 1035.3 | 1028.2 | 1019.0 |
| 20° | 1106.5 | 1107.0 | 1102.9 | 1096.3 | 1092.7 | 1087.1 | 1080.0 | 1071.4 | 1063.8 | 1052.6 | 1042.4 |
| 22.5° | 1162.4 | 1161.8 | 1153.7 | 1148.1 | 1143.0 | 1136.4 | 1126.3 | 1114.6 | 1102.4 | 1089.2 | 1074.9 |
| 25° | 1226.4 | 1226.4 | 1220.8 | 1211.7 | 1209.1 | 1199.5 | 1188.3 | 1174.6 | 1161.8 | 1143.0 | 1125.8 |
| 27.5° | 1299.6 | 1300.1 | 1289.9 | 1284.8 | 1279.3 | 1269.1 | 1261.5 | 1250.8 | 1233.5 | 1214.7 | 1196.9 |
| 30° | 1386.5 | 1384.0 | 1375.8 | 1365.1 | 1363.1 | 1355.0 | 1344.3 | 1336.7 | 1315.3 | 1302.1 | 1282.3 |
| 32.5° | 1468.8 | 1472.9 | 1470.9 | 1458.7 | 1460.7 | 1452.6 | 1443.4 | 1437.8 | 1415.5 | 1402.8 | 1384.5 |
| 35° | 1591.8 | 1595.4 | 1598.4 | 1593.9 | 1596.4 | 1591.8 | 1584.2 | 1569.5 | 1551.2 | 1534.4 | 1509.0 |
| 37.5° | 1687.4 | 1690.9 | 1693.0 | 1704.1 | 1720.4 | 1736.2 | 1743.3 | 1735.7 | 1736.7 | 1711.3 | 1677.2 |
| 40° | 1765.6 | 1774.3 | 1786.5 | 1807.8 | 1840.4 | 1870.3 | 1886.6 | 1899.3 | 1905.9 | 1882.0 | 1837.8 |
| 42.5° | 1843.9 | 1853.1 | 1869.8 | 1903.9 | 1948.6 | 1991.8 | 2025.9 | 2065.0 | 2072.1 | 2066.0 | 2028.4 |
| 45° | 1925.7 | 1936.4 | 1957.3 | 1995.9 | 2048.2 | 2104.6 | 2159.5 | 2214.9 | 2242.9 | 2247.5 | 2201.7 |
| 47.5° | 2024.3 | 2039.6 | 2058.9 | 2102.6 | 2153.4 | 2217.0 | 2285.6 | 2356.7 | 2400.4 | 2400.4 | 2347.6 |
| 50° | 2147.3 | 2164.6 | 2180.9 | 2224.6 | 2275.4 | 2341.0 | 2420.3 | 2499.6 | 2559.0 | 2562.6 | 2498.5 |
| 52.5° | 2319.6 | 2322.2 | 2331.8 | 2372.0 | 2416.2 | 2489.4 | 2564.6 | 2656.6 | 2725.2 | 2728.3 | 2654.6 |
| 55° | 2529.0 | 2529.0 | 2540.2 | 2573.8 | 2614.9 | 2675.4 | 2753.2 | 2855.3 | 2927.5 | 2943.2 | 2848.7 |
| 57.5° | 2804.5 | 2814.7 | 2820.3 | 2859.4 | 2887.3 | 2951.4 | 3016.4 | 3127.7 | 3219.7 | 3229.9 | 3133.8 |
| 60° | 3252.8 | 3233.5 | 3264.5 | 3299.0 | 3364.6 | 3411.3 | 3522.1 | 3634.0 | 3751.4 | 3779.3 | 3676.1 |
| 62.5° | 3694.4 | 3715.3 | 3753.4 | 3815.9 | 3928.2 | 4032.9 | 4191.5 | 4361.3 | 4543.7 | 4581.3 | 4502.5 |
| 65° | 3721.9 | 3734.6 | 3787.4 | 3895.2 | 4048.7 | 4235.2 | 4453.8 | 4709.4 | 4981.3 | 5122.1 | 4990.0 |
| 67° | 3524.7 | 3528.2 | 3588.2 | 3710.7 | 3894.7 | 4115.8 | 4374.5 | 4686.5 | 5005.7 | 5199.4 | 5100.8 |
| 67.5° | 3462.2 | 3468.8 | 3527.7 | 3652.8 | 3838.8 | 4064.9 | 4328.7 | 4649.4 | 4976.2 | 5178.5 | 5089.6 |
| 70° | 3095.2 | 3095.2 | 3158.7 | 3284.8 | 3459.1 | 3679.7 | 3955.7 | 4279.4 | 4634.7 | 4805.0 | 4729.2 |
| 72.5° | 2634.7 | 2618.0 | 2689.6 | 2785.2 | 2927.5 | 3120.1 | 3342.2 | 3597.9 | 3865.2 | 3989.2 | 3959.2 |
| 75° | 1915.1 | 1946.6 | 1983.7 | 2054.3 | 2177.8 | 2329.8 | 2459.9 | 2688.1 | 2898.0 | 3035.2 | 2999.2 |
| 77.5° | 1045.0 | 1057.2 | 1159.8 | 1202.0 | 1310.3 | 1423.1 | 1565.9 | 1726.0 | 1891.2 | 1977.6 | 1942.5 |
| 80° | 621.1 | 645.0 | 706.0 | 756.3 | 814.7 | 900.6 | 1004.3 | 1039.4 | 1071.9 | 1069.9 | 1006.3 |
| 82.5° | 392.4 | 421.3 | 487.4 | 530.6 | 561.1 | 610.9 | 667.3 | 711.5 | 721.2 | 673.4 | 599.7 |
| 85° | 63.5 | 105.2 | 275.0 | 323.2 | 342.6 | 369.5 | 411.2 | 430.0 | 401.5 | 350.7 | 363.4 |
| 87.5° | 24.9 | 30.0 | 83.9 | 106.2 | 112.3 | 59.0 | 102.2 | 119.9 | 61.0 | 31.0 | 70.1 |
| 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-F03-E-7050

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1005.3 | 1005.3 | 1005.3 | 1005.3 | 1005.3 | 1005.3 | 1005.3 | 1005.3 | 1005.3 | 1005.3 | 1005.3 |
| 2.5° | 994.6 | 997.2 | 999.7 | 1002.8 | 1003.8 | 1006.3 | 1010.9 | 1010.4 | 1013.9 | 1015.5 | 1018.0 |
| 5° | 992.6 | 998.2 | 1002.3 | 1007.9 | 1009.9 | 1015.5 | 1021.6 | 1023.6 | 1028.2 | 1031.7 | 1034.8 |
| 7.5° | 996.7 | 1002.8 | 1007.9 | 1014.5 | 1019.0 | 1023.6 | 1028.2 | 1033.8 | 1037.8 | 1040.4 | 1042.4 |
| 10° | 998.2 | 1004.8 | 1010.9 | 1016.5 | 1021.6 | 1025.1 | 1030.2 | 1034.8 | 1038.9 | 1040.4 | 1040.9 |
| 12.5° | 998.7 | 1003.3 | 1009.4 | 1015.5 | 1020.0 | 1024.6 | 1028.2 | 1033.3 | 1036.3 | 1036.8 | 1035.8 |
| 15° | 1002.8 | 1003.3 | 1007.3 | 1014.5 | 1019.0 | 1023.6 | 1026.1 | 1028.7 | 1030.7 | 1029.2 | 1027.7 |
| 17.5° | 1015.0 | 1011.4 | 1011.4 | 1015.0 | 1017.5 | 1019.5 | 1020.0 | 1019.5 | 1017.5 | 1014.5 | 1011.9 |
| 20° | 1034.8 | 1027.7 | 1022.1 | 1020.0 | 1016.0 | 1010.9 | 1004.3 | 998.2 | 990.6 | 987.0 | 986.5 |
| 22.5° | 1065.8 | 1055.1 | 1045.0 | 1034.8 | 1021.6 | 1006.8 | 991.6 | 978.4 | 967.7 | 962.1 | 962.6 |
| 25° | 1118.6 | 1102.9 | 1091.2 | 1073.4 | 1052.1 | 1031.2 | 1011.4 | 993.6 | 980.9 | 970.7 | 972.8 |
| 27.5° | 1189.8 | 1172.0 | 1161.8 | 1141.5 | 1117.1 | 1090.7 | 1067.3 | 1042.9 | 1024.6 | 1011.9 | 1014.5 |
| 30° | 1273.2 | 1268.1 | 1251.3 | 1231.0 | 1208.1 | 1178.1 | 1143.0 | 1106.5 | 1073.4 | 1052.6 | 1048.5 |
| 32.5° | 1373.8 | 1368.2 | 1349.9 | 1332.6 | 1303.1 | 1270.1 | 1224.4 | 1166.4 | 1114.6 | 1074.9 | 1057.7 |
| 35° | 1497.8 | 1484.1 | 1461.7 | 1444.9 | 1411.9 | 1369.2 | 1310.3 | 1232.0 | 1153.2 | 1093.7 | 1050.5 |
| 37.5° | 1652.3 | 1618.3 | 1581.2 | 1537.4 | 1488.7 | 1436.8 | 1368.7 | 1277.2 | 1179.6 | 1095.3 | 1018.5 |
| 40° | 1799.7 | 1744.8 | 1683.3 | 1614.2 | 1554.7 | 1492.2 | 1421.6 | 1316.9 | 1197.4 | 1084.6 | 970.2 |
| 42.5° | 1963.9 | 1878.5 | 1795.1 | 1700.1 | 1621.8 | 1547.6 | 1466.8 | 1344.8 | 1201.0 | 1055.6 | 907.7 |
| 45° | 2121.9 | 2012.1 | 1900.3 | 1782.9 | 1683.3 | 1601.0 | 1509.0 | 1368.7 | 1200.0 | 1025.1 | 845.7 |
| 47.5° | 2262.7 | 2131.6 | 1993.3 | 1861.2 | 1745.3 | 1654.8 | 1554.2 | 1401.2 | 1213.7 | 1016.5 | 804.6 |
| 50° | 2394.3 | 2242.9 | 2080.8 | 1933.9 | 1807.8 | 1715.3 | 1611.6 | 1452.6 | 1255.9 | 1036.3 | 798.5 |
| 52.5° | 2530.0 | 2365.4 | 2179.9 | 2021.8 | 1890.2 | 1782.9 | 1678.2 | 1518.1 | 1314.8 | 1077.0 | 812.2 |
| 55° | 2706.9 | 2517.8 | 2320.1 | 2144.8 | 1993.8 | 1878.5 | 1757.5 | 1597.4 | 1378.4 | 1124.2 | 838.1 |
| 57.5° | 2970.2 | 2749.1 | 2524.5 | 2335.9 | 2161.6 | 2017.7 | 1885.1 | 1701.6 | 1483.6 | 1195.4 | 895.0 |
| 60° | 3442.9 | 3197.9 | 2937.7 | 2691.2 | 2490.4 | 2322.2 | 2153.4 | 1925.7 | 1677.7 | 1357.0 | 1025.6 |
| 62.5° | 4214.9 | 3875.9 | 3516.0 | 3191.8 | 2915.8 | 2688.1 | 2450.3 | 2176.8 | 1887.6 | 1553.2 | 1223.3 |
| 65° | 4678.9 | 4211.3 | 3753.4 | 3377.3 | 3051.0 | 2759.3 | 2471.6 | 2177.8 | 1897.8 | 1605.5 | 1312.3 |
| 67° | 4736.3 | 4223.5 | 3716.8 | 3316.3 | 2966.6 | 2649.0 | 2336.9 | 2036.5 | 1786.0 | 1541.0 | 1287.9 |
| 67.5° | 4719.1 | 4199.1 | 3682.2 | 3277.7 | 2924.4 | 2617.0 | 2310.0 | 2002.5 | 1758.5 | 1513.6 | 1269.6 |
| 70° | 4378.5 | 3869.8 | 3358.5 | 2965.1 | 2626.6 | 2312.0 | 2021.8 | 1713.8 | 1525.2 | 1349.9 | 1139.0 |
| 72.5° | 3634.0 | 3237.0 | 2808.6 | 2480.7 | 2188.5 | 1916.1 | 1660.9 | 1403.3 | 1251.8 | 1127.8 | 979.4 |
| 75° | 2694.7 | 2330.8 | 1968.4 | 1771.2 | 1544.6 | 1326.5 | 1129.3 | 938.7 | 880.3 | 850.8 | 763.4 |
| 77.5° | 1664.0 | 1337.2 | 1064.3 | 885.9 | 704.4 | 552.0 | 439.1 | 357.3 | 372.5 | 433.5 | 461.5 |
| 80° | 828.4 | 611.9 | 473.7 | 376.6 | 304.4 | 246.0 | 180.4 | 132.1 | 158.1 | 187.5 | 212.4 |
| 82.5° | 498.6 | 393.9 | 311.6 | 263.8 | 214.5 | 165.7 | 117.4 | 89.5 | 99.1 | 133.2 | 146.4 |
| 85° | 309.5 | 248.0 | 198.2 | 165.7 | 137.2 | 101.6 | 66.6 | 66.1 | 70.1 | 88.4 | 101.1 |
| 87.5° | 91.0 | 61.5 | 48.8 | 50.8 | 56.4 | 46.8 | 35.1 | 30.0 | 37.1 | 50.8 | 56.9 |
| 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-F03-E-7050

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1005.3 | 1005.3 | 1005.3 | 1005.3 | 1005.3 | 1005.3 | 1005.3 | 1005.3 | 1005.3 | 1005.3 | 1005.3 |
| 2.5° | 1018.5 | 1022.1 | 1023.6 | 1024.1 | 1024.6 | 1027.7 | 1027.7 | 1030.7 | 1031.7 | 1031.7 | 1032.8 |
| 5° | 1037.8 | 1041.4 | 1042.9 | 1043.4 | 1044.4 | 1046.0 | 1045.5 | 1047.5 | 1048.5 | 1048.0 | 1048.0 |
| 7.5° | 1045.0 | 1046.0 | 1046.0 | 1047.5 | 1049.0 | 1047.5 | 1046.5 | 1047.5 | 1047.0 | 1047.5 | 1047.5 |
| 10° | 1042.4 | 1041.4 | 1041.4 | 1040.4 | 1041.9 | 1038.9 | 1038.9 | 1039.9 | 1039.4 | 1040.4 | 1041.9 |
| 12.5° | 1036.3 | 1035.8 | 1034.3 | 1033.8 | 1035.8 | 1033.8 | 1034.3 | 1035.8 | 1036.8 | 1038.9 | 1041.4 |
| 15° | 1027.7 | 1026.1 | 1026.1 | 1028.2 | 1033.3 | 1034.8 | 1036.8 | 1039.4 | 1039.9 | 1040.9 | 1041.9 |
| 17.5° | 1012.9 | 1015.5 | 1021.6 | 1028.7 | 1038.3 | 1041.9 | 1042.9 | 1041.4 | 1036.3 | 1032.2 | 1028.2 |
| 20° | 992.6 | 1003.8 | 1019.5 | 1034.8 | 1046.5 | 1046.0 | 1039.4 | 1029.7 | 1017.5 | 1008.9 | 1003.3 |
| 22.5° | 975.3 | 997.2 | 1021.6 | 1039.9 | 1047.5 | 1037.8 | 1022.6 | 1007.9 | 993.6 | 980.9 | 969.7 |
| 25° | 987.5 | 1008.4 | 1029.2 | 1040.4 | 1039.9 | 1023.1 | 1002.8 | 986.5 | 967.2 | 949.4 | 930.6 |
| 27.5° | 1027.2 | 1039.9 | 1046.0 | 1042.4 | 1031.7 | 1009.4 | 987.0 | 964.1 | 939.2 | 917.9 | 896.0 |
| 30° | 1054.1 | 1054.1 | 1048.0 | 1033.8 | 1015.0 | 990.1 | 962.6 | 933.1 | 903.7 | 878.8 | 853.9 |
| 32.5° | 1045.5 | 1025.6 | 1007.9 | 988.5 | 967.2 | 940.3 | 908.7 | 876.7 | 843.2 | 814.2 | 792.9 |
| 35° | 1007.9 | 965.2 | 928.1 | 900.6 | 878.2 | 846.2 | 809.6 | 773.0 | 745.6 | 725.8 | 713.6 |
| 37.5° | 940.8 | 872.7 | 818.8 | 785.2 | 750.7 | 717.6 | 675.5 | 658.7 | 634.3 | 622.1 | 617.5 |
| 40° | 859.4 | 759.8 | 692.2 | 649.0 | 612.4 | 571.3 | 542.8 | 532.1 | 523.0 | 520.4 | 518.4 |
| 42.5° | 765.9 | 641.4 | 561.1 | 516.4 | 472.2 | 442.2 | 429.5 | 422.9 | 421.3 | 421.3 | 423.9 |
| 45° | 668.9 | 521.0 | 428.5 | 392.4 | 355.8 | 340.0 | 337.0 | 333.9 | 334.4 | 332.9 | 333.9 |
| 47.5° | 593.6 | 418.3 | 323.2 | 290.2 | 271.4 | 266.3 | 262.8 | 261.7 | 261.7 | 259.2 | 256.2 |
| 50° | 554.5 | 349.7 | 253.6 | 227.7 | 217.0 | 213.5 | 213.5 | 211.4 | 207.4 | 204.8 | 198.2 |
| 52.5° | 544.3 | 314.1 | 219.6 | 197.2 | 188.1 | 185.0 | 182.0 | 178.9 | 172.8 | 167.2 | 159.6 |
| 55° | 552.5 | 302.9 | 208.9 | 188.1 | 177.9 | 174.3 | 171.8 | 166.7 | 158.1 | 149.9 | 141.3 |
| 57.5° | 586.5 | 310.0 | 213.0 | 190.6 | 181.4 | 178.9 | 176.4 | 168.7 | 158.1 | 146.4 | 136.7 |
| 60° | 679.5 | 343.6 | 230.2 | 204.3 | 196.7 | 197.2 | 193.6 | 184.0 | 168.7 | 152.0 | 137.7 |
| 62.5° | 799.5 | 390.3 | 252.6 | 223.6 | 222.6 | 227.7 | 227.7 | 210.9 | 186.0 | 160.6 | 141.3 |
| 65° | 868.1 | 405.1 | 255.6 | 226.2 | 234.8 | 249.5 | 248.5 | 226.2 | 192.1 | 160.6 | 139.8 |
| 67° | 850.8 | 389.3 | 242.9 | 211.4 | 221.6 | 238.4 | 236.3 | 215.0 | 183.0 | 154.0 | 135.7 |
| 67.5° | 837.1 | 384.2 | 239.9 | 207.9 | 218.0 | 231.8 | 231.8 | 210.4 | 178.9 | 152.0 | 134.2 |
| 70° | 737.0 | 339.5 | 224.6 | 194.1 | 194.1 | 197.7 | 195.2 | 179.9 | 158.6 | 139.8 | 128.1 |
| 72.5° | 614.5 | 296.8 | 212.4 | 184.5 | 174.8 | 172.8 | 169.2 | 158.6 | 144.8 | 131.6 | 121.5 |
| 75° | 476.2 | 262.8 | 202.8 | 174.3 | 161.6 | 157.0 | 153.5 | 145.4 | 134.7 | 123.5 | 114.9 |
| 77.5° | 333.4 | 225.2 | 190.1 | 165.7 | 152.0 | 148.4 | 142.8 | 133.7 | 125.0 | 115.4 | 107.2 |
| 80° | 206.9 | 186.0 | 165.7 | 149.4 | 135.2 | 130.1 | 123.0 | 114.9 | 107.7 | 102.2 | 96.1 |
| 82.5° | 147.4 | 136.7 | 123.5 | 114.9 | 100.1 | 84.9 | 91.0 | 91.5 | 86.9 | 83.4 | 81.8 |
| 85° | 98.6 | 88.9 | 82.3 | 74.7 | 66.1 | 59.5 | 61.0 | 65.6 | 66.1 | 64.5 | 64.5 |
| 87.5° | 53.9 | 45.7 | 44.2 | 45.7 | 39.6 | 37.6 | 38.1 | 42.2 | 42.7 | 42.7 | 43.2 |
| 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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| 67° | 124.5 | 116.9 | 112.8 | 111.8 |
| 67.5° | 123.5 | 116.4 | 112.8 | 111.3 |
| 70° | 121.0 | 114.9 | 110.8 | 109.3 |
| 72.5° | 115.4 | 110.3 | 106.2 | 105.2 |
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