

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: P146923

Luminaire Tested: **LDRC-T4-F03-E-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146923
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-8030
Description: RC LED ROADWAY SMALL CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6142.3 lumens
Efficiency: N/A
Efficacy: 78.4 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

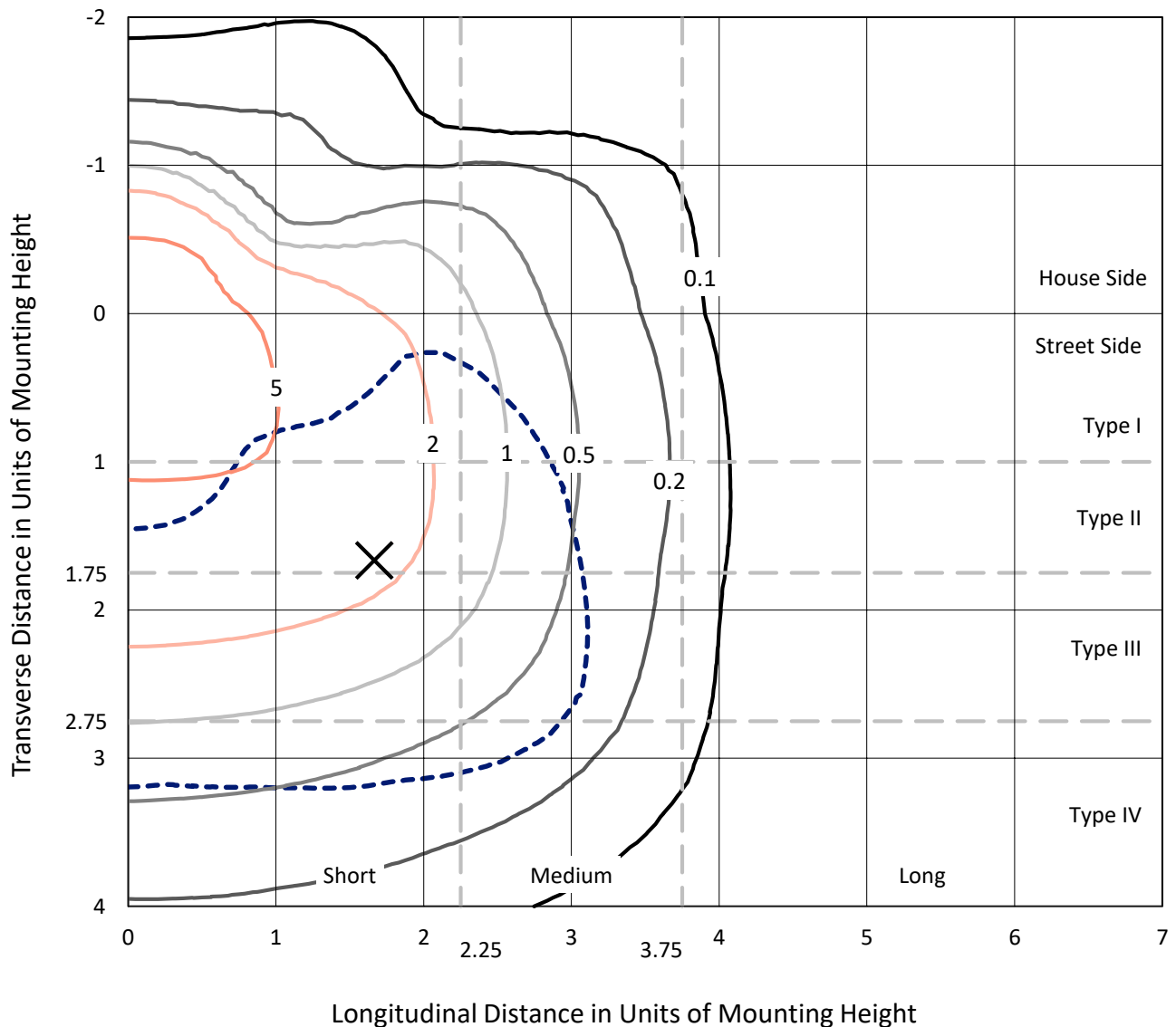
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

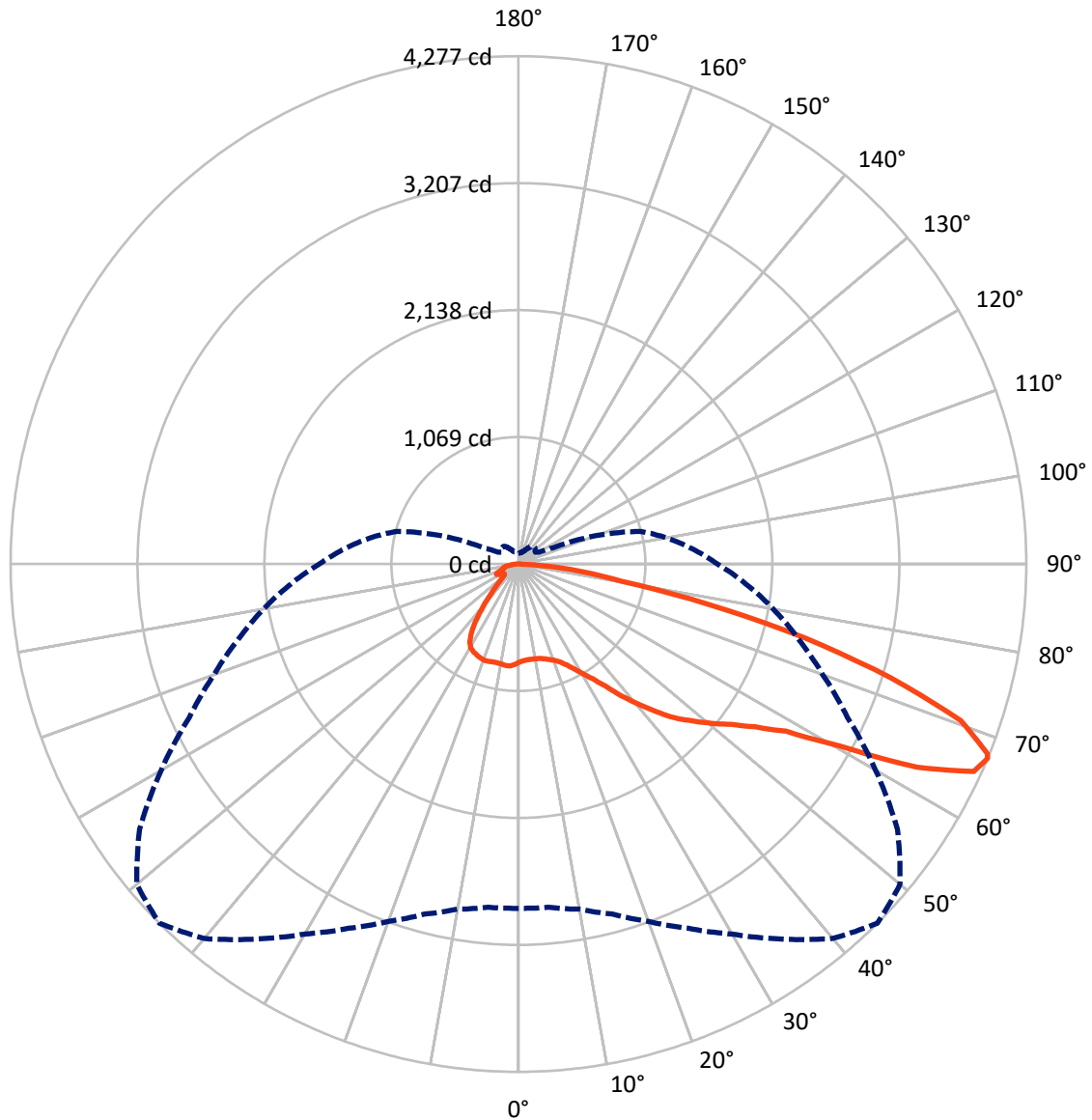
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.4 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 | 1244.6 | 0.0 | 1244.6 |
| | % Fixture | 20.3 | 0.0 | 20.3 |
| Street Side | Lumens | 4897.7 | 0.0 | 4897.7 |
| | % Fixture | 79.7 | 0.0 | 79.7 |
| Total | Lumens | 6142.3 | 0.0 | 6142.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 79.7 | 1.3 |
| 10°-20° | 239.3 | 3.9 |
| 20°-30° | 406.7 | 6.6 |
| 30°-40° | 611.3 | 10.0 |
| 40°-50° | 794.8 | 12.9 |
| 50°-60° | 1091.3 | 17.8 |
| 60°-70° | 1721.5 | 28.0 |
| 70°-80° | 1040.1 | 16.9 |
| 80°-90° | 157.6 | 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° | 6142.3 | 100.0 |
| 0°-180° | 6142.3 | 100.0 |



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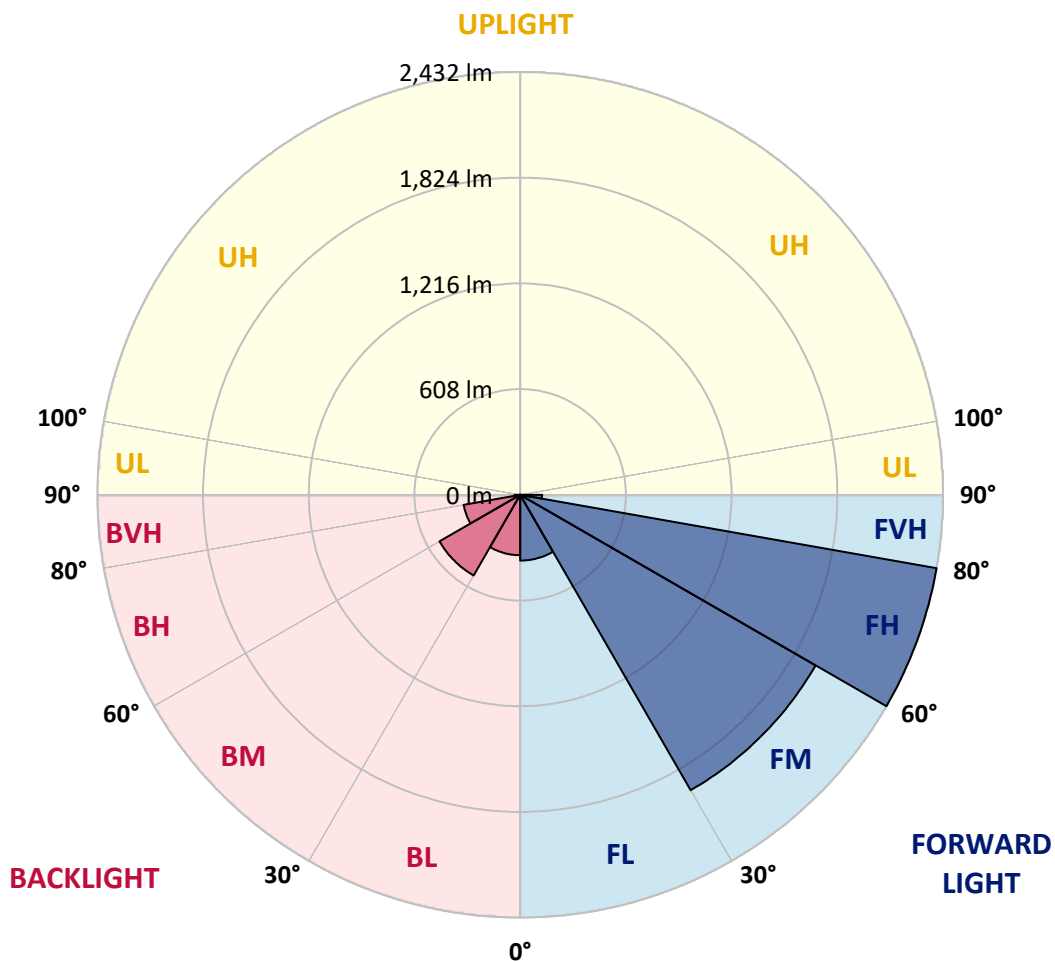
CATALOG NUMBER: LDRC-T4-F03-E-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 378.2 | 6.2 | | | |
| FM | (30°-60°) | 1961.8 | 31.9 | | | |
| FH | (60°-80°) | 2431.9 | 39.6 | | | G2/5000 |
| FVH | (80°-90°) | 125.8 | 2.0 | | | G2/225 |
| BL | (0°-30°) | 347.5 | 5.7 | B1/500 | | |
| BM | (30°-60°) | 535.6 | 8.7 | B1/1000 | | |
| BH | (60°-80°) | 329.8 | 5.4 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 31.7 | 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-8030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 826.9 | 826.9 | 826.9 | 826.9 | 826.9 | 826.9 | 826.9 | 826.9 | 826.9 | 826.9 | 826.9 |
| 2.5° | 808.5 | 810.2 | 808.9 | 808.9 | 809.3 | 809.7 | 810.6 | 812.3 | 812.7 | 815.2 | 815.6 |
| 5° | 792.2 | 792.6 | 792.6 | 793.0 | 795.5 | 797.6 | 799.7 | 802.6 | 805.1 | 809.7 | 812.7 |
| 7.5° | 786.3 | 788.0 | 787.6 | 788.4 | 790.9 | 793.0 | 795.5 | 799.7 | 806.0 | 809.7 | 813.9 |
| 10° | 796.0 | 797.2 | 796.0 | 796.4 | 796.8 | 798.9 | 799.7 | 802.6 | 807.7 | 811.0 | 814.8 |
| 12.5° | 818.1 | 818.1 | 816.9 | 816.0 | 814.8 | 815.2 | 813.5 | 813.1 | 815.6 | 816.0 | 816.4 |
| 15° | 847.4 | 850.7 | 846.5 | 843.2 | 841.5 | 839.8 | 834.4 | 832.3 | 831.9 | 828.1 | 824.4 |
| 17.5° | 877.1 | 877.9 | 875.4 | 871.6 | 869.1 | 865.3 | 860.7 | 856.6 | 851.6 | 845.7 | 838.2 |
| 20° | 910.1 | 910.5 | 907.1 | 901.7 | 898.8 | 894.2 | 888.3 | 881.2 | 875.0 | 865.8 | 857.4 |
| 22.5° | 956.1 | 955.6 | 949.0 | 944.4 | 940.2 | 934.7 | 926.4 | 916.8 | 906.7 | 895.9 | 884.2 |
| 25° | 1008.7 | 1008.7 | 1004.1 | 996.6 | 994.5 | 986.6 | 977.4 | 966.1 | 955.6 | 940.2 | 926.0 |
| 27.5° | 1068.9 | 1069.3 | 1061.0 | 1056.8 | 1052.2 | 1043.8 | 1037.6 | 1028.8 | 1014.6 | 999.1 | 984.5 |
| 30° | 1140.4 | 1138.3 | 1131.6 | 1122.9 | 1121.2 | 1114.5 | 1105.7 | 1099.4 | 1081.9 | 1071.0 | 1054.7 |
| 32.5° | 1208.1 | 1211.5 | 1209.8 | 1199.8 | 1201.5 | 1194.8 | 1187.2 | 1182.6 | 1164.2 | 1153.8 | 1138.7 |
| 35° | 1309.3 | 1312.2 | 1314.7 | 1311.0 | 1313.1 | 1309.3 | 1303.0 | 1290.9 | 1275.9 | 1262.1 | 1241.2 |
| 37.5° | 1387.9 | 1390.8 | 1392.5 | 1401.7 | 1415.1 | 1428.0 | 1433.9 | 1427.6 | 1428.4 | 1407.5 | 1379.5 |
| 40° | 1452.3 | 1459.4 | 1469.4 | 1487.0 | 1513.7 | 1538.4 | 1551.8 | 1562.2 | 1567.7 | 1548.0 | 1511.6 |
| 42.5° | 1516.7 | 1524.2 | 1538.0 | 1566.0 | 1602.8 | 1638.3 | 1666.3 | 1698.5 | 1704.4 | 1699.3 | 1668.4 |
| 45° | 1584.0 | 1592.7 | 1609.9 | 1641.6 | 1684.7 | 1731.1 | 1776.3 | 1821.8 | 1844.8 | 1848.6 | 1811.0 |
| 47.5° | 1665.1 | 1677.6 | 1693.5 | 1729.4 | 1771.2 | 1823.5 | 1879.9 | 1938.5 | 1974.4 | 1974.4 | 1930.9 |
| 50° | 1766.2 | 1780.4 | 1793.8 | 1829.8 | 1871.6 | 1925.5 | 1990.7 | 2055.9 | 2104.8 | 2107.8 | 2055.1 |
| 52.5° | 1907.9 | 1910.0 | 1918.0 | 1951.0 | 1987.4 | 2047.6 | 2109.4 | 2185.1 | 2241.5 | 2244.0 | 2183.4 |
| 55° | 2080.2 | 2080.2 | 2089.4 | 2117.0 | 2150.8 | 2200.6 | 2264.5 | 2348.6 | 2407.9 | 2420.9 | 2343.1 |
| 57.5° | 2306.8 | 2315.1 | 2319.7 | 2351.9 | 2374.9 | 2427.6 | 2481.1 | 2572.6 | 2648.3 | 2656.7 | 2577.6 |
| 60° | 2675.5 | 2659.6 | 2685.1 | 2713.5 | 2767.4 | 2805.9 | 2897.0 | 2989.0 | 3085.6 | 3108.6 | 3023.7 |
| 62.5° | 3038.7 | 3055.9 | 3087.2 | 3138.7 | 3231.0 | 3317.2 | 3447.6 | 3587.2 | 3737.3 | 3768.2 | 3703.4 |
| 65° | 3061.3 | 3071.8 | 3115.2 | 3203.9 | 3330.1 | 3483.5 | 3663.3 | 3873.6 | 4097.2 | 4213.0 | 4104.3 |
| 67° | 2899.1 | 2902.0 | 2951.4 | 3052.1 | 3203.5 | 3385.3 | 3598.1 | 3854.8 | 4117.3 | 4276.6 | 4195.5 |
| 67.5° | 2847.7 | 2853.1 | 2901.6 | 3004.5 | 3157.5 | 3343.5 | 3560.5 | 3824.2 | 4093.0 | 4259.4 | 4186.3 |
| 70° | 2545.9 | 2545.9 | 2598.1 | 2701.8 | 2845.2 | 3026.6 | 3253.6 | 3519.9 | 3812.1 | 3952.2 | 3889.9 |
| 72.5° | 2167.1 | 2153.3 | 2212.3 | 2290.9 | 2407.9 | 2566.4 | 2749.0 | 2959.3 | 3179.2 | 3281.2 | 3256.5 |
| 75° | 1575.2 | 1601.1 | 1631.6 | 1689.7 | 1791.3 | 1916.3 | 2023.3 | 2211.0 | 2383.7 | 2496.5 | 2466.9 |
| 77.5° | 859.5 | 869.5 | 954.0 | 988.7 | 1077.7 | 1170.5 | 1288.0 | 1419.7 | 1555.5 | 1626.6 | 1597.8 |
| 80° | 510.8 | 530.5 | 580.7 | 622.0 | 670.1 | 740.8 | 826.0 | 854.9 | 881.6 | 880.0 | 827.7 |
| 82.5° | 322.7 | 346.6 | 400.9 | 436.4 | 461.5 | 502.5 | 548.9 | 585.3 | 593.2 | 553.9 | 493.3 |
| 85° | 52.3 | 86.5 | 226.2 | 265.9 | 281.8 | 303.9 | 338.2 | 353.7 | 330.3 | 288.4 | 298.9 |
| 87.5° | 20.5 | 24.7 | 69.0 | 87.4 | 92.4 | 48.5 | 84.0 | 98.7 | 50.2 | 25.5 | 57.7 |
| 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-F03-E-8030

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 826.9 | 826.9 | 826.9 | 826.9 | 826.9 | 826.9 | 826.9 | 826.9 | 826.9 | 826.9 | 826.9 |
| 2.5° | 818.1 | 820.2 | 822.3 | 824.8 | 825.6 | 827.7 | 831.5 | 831.1 | 834.0 | 835.2 | 837.3 |
| 5° | 816.4 | 821.0 | 824.4 | 829.0 | 830.6 | 835.2 | 840.3 | 841.9 | 845.7 | 848.6 | 851.1 |
| 7.5° | 819.8 | 824.8 | 829.0 | 834.4 | 838.2 | 841.9 | 845.7 | 850.3 | 853.6 | 855.7 | 857.4 |
| 10° | 821.0 | 826.5 | 831.5 | 836.1 | 840.3 | 843.2 | 847.4 | 851.1 | 854.5 | 855.7 | 856.1 |
| 12.5° | 821.5 | 825.2 | 830.2 | 835.2 | 839.0 | 842.8 | 845.7 | 849.9 | 852.4 | 852.8 | 852.0 |
| 15° | 824.8 | 825.2 | 828.6 | 834.4 | 838.2 | 841.9 | 844.0 | 846.1 | 847.8 | 846.5 | 845.3 |
| 17.5° | 834.8 | 831.9 | 831.9 | 834.8 | 836.9 | 838.6 | 839.0 | 838.6 | 836.9 | 834.4 | 832.3 |
| 20° | 851.1 | 845.3 | 840.7 | 839.0 | 835.7 | 831.5 | 826.0 | 821.0 | 814.8 | 811.8 | 811.4 |
| 22.5° | 876.6 | 867.9 | 859.5 | 851.1 | 840.3 | 828.1 | 815.6 | 804.7 | 796.0 | 791.4 | 791.8 |
| 25° | 920.1 | 907.1 | 897.5 | 882.9 | 865.3 | 848.2 | 831.9 | 817.3 | 806.8 | 798.5 | 800.1 |
| 27.5° | 978.6 | 964.0 | 955.6 | 938.9 | 918.9 | 897.1 | 877.9 | 857.8 | 842.8 | 832.3 | 834.4 |
| 30° | 1047.2 | 1043.0 | 1029.2 | 1012.5 | 993.7 | 969.0 | 940.2 | 910.1 | 882.9 | 865.8 | 862.4 |
| 32.5° | 1130.0 | 1125.4 | 1110.3 | 1096.1 | 1071.9 | 1044.7 | 1007.1 | 959.4 | 916.8 | 884.2 | 869.9 |
| 35° | 1232.0 | 1220.7 | 1202.3 | 1188.5 | 1161.3 | 1126.2 | 1077.7 | 1013.3 | 948.5 | 899.6 | 864.1 |
| 37.5° | 1359.1 | 1331.0 | 1300.5 | 1264.6 | 1224.4 | 1181.8 | 1125.8 | 1050.5 | 970.3 | 900.9 | 837.8 |
| 40° | 1480.3 | 1435.1 | 1384.6 | 1327.7 | 1278.8 | 1227.4 | 1169.3 | 1083.1 | 984.9 | 892.1 | 798.0 |
| 42.5° | 1615.3 | 1545.1 | 1476.5 | 1398.3 | 1334.0 | 1272.9 | 1206.5 | 1106.1 | 987.8 | 868.3 | 746.6 |
| 45° | 1745.3 | 1655.0 | 1563.1 | 1466.5 | 1384.6 | 1316.8 | 1241.2 | 1125.8 | 987.0 | 843.2 | 695.6 |
| 47.5° | 1861.1 | 1753.3 | 1639.6 | 1530.9 | 1435.6 | 1361.1 | 1278.4 | 1152.5 | 998.3 | 836.1 | 661.8 |
| 50° | 1969.4 | 1844.8 | 1711.5 | 1590.6 | 1487.0 | 1410.9 | 1325.6 | 1194.8 | 1033.0 | 852.4 | 656.7 |
| 52.5° | 2081.0 | 1945.6 | 1793.0 | 1663.0 | 1554.7 | 1466.5 | 1380.4 | 1248.7 | 1081.5 | 885.8 | 668.0 |
| 55° | 2226.5 | 2071.0 | 1908.4 | 1764.1 | 1640.0 | 1545.1 | 1445.6 | 1313.9 | 1133.7 | 924.7 | 689.4 |
| 57.5° | 2443.0 | 2261.2 | 2076.4 | 1921.3 | 1777.9 | 1659.6 | 1550.5 | 1399.6 | 1220.3 | 983.2 | 736.2 |
| 60° | 2831.8 | 2630.3 | 2416.3 | 2213.5 | 2048.4 | 1910.0 | 1771.2 | 1584.0 | 1380.0 | 1116.2 | 843.6 |
| 62.5° | 3466.8 | 3188.0 | 2892.0 | 2625.3 | 2398.3 | 2211.0 | 2015.4 | 1790.5 | 1552.6 | 1277.5 | 1006.2 |
| 65° | 3848.5 | 3463.9 | 3087.2 | 2777.9 | 2509.5 | 2269.5 | 2032.9 | 1791.3 | 1561.0 | 1320.6 | 1079.4 |
| 67° | 3895.7 | 3473.9 | 3057.1 | 2727.7 | 2440.1 | 2178.8 | 1922.2 | 1675.1 | 1469.0 | 1267.5 | 1059.3 |
| 67.5° | 3881.5 | 3453.9 | 3028.7 | 2695.9 | 2405.4 | 2152.5 | 1900.0 | 1647.1 | 1446.4 | 1244.9 | 1044.3 |
| 70° | 3601.4 | 3183.0 | 2762.4 | 2438.9 | 2160.4 | 1901.7 | 1663.0 | 1409.6 | 1254.5 | 1110.3 | 936.8 |
| 72.5° | 2989.0 | 2662.5 | 2310.1 | 2040.5 | 1800.1 | 1576.0 | 1366.2 | 1154.2 | 1029.6 | 927.6 | 805.6 |
| 75° | 2216.5 | 1917.1 | 1619.1 | 1456.9 | 1270.4 | 1091.1 | 928.9 | 772.1 | 724.0 | 699.8 | 627.9 |
| 77.5° | 1368.7 | 1099.9 | 875.4 | 728.6 | 579.4 | 454.0 | 361.2 | 293.9 | 306.4 | 356.6 | 379.6 |
| 80° | 681.4 | 503.3 | 389.6 | 309.8 | 250.4 | 202.3 | 148.4 | 108.7 | 130.0 | 154.3 | 174.7 |
| 82.5° | 410.1 | 324.0 | 256.3 | 217.0 | 176.4 | 136.3 | 96.6 | 73.6 | 81.5 | 109.5 | 120.4 |
| 85° | 254.6 | 204.0 | 163.0 | 136.3 | 112.9 | 83.6 | 54.8 | 54.3 | 57.7 | 72.7 | 83.2 |
| 87.5° | 74.8 | 50.6 | 40.1 | 41.8 | 46.4 | 38.5 | 28.8 | 24.7 | 30.5 | 41.8 | 46.8 |
| 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: LDRC-T4-F03-E-8030

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 826.9 | 826.9 | 826.9 | 826.9 | 826.9 | 826.9 | 826.9 | 826.9 | 826.9 | 826.9 | 826.9 |
| 2.5° | 837.8 | 840.7 | 841.9 | 842.4 | 842.8 | 845.3 | 845.3 | 847.8 | 848.6 | 848.6 | 849.5 |
| 5° | 853.6 | 856.6 | 857.8 | 858.2 | 859.1 | 860.3 | 859.9 | 861.6 | 862.4 | 862.0 | 862.0 |
| 7.5° | 859.5 | 860.3 | 860.3 | 861.6 | 862.8 | 861.6 | 860.7 | 861.6 | 861.2 | 861.6 | 861.6 |
| 10° | 857.4 | 856.6 | 856.6 | 855.7 | 857.0 | 854.5 | 854.5 | 855.3 | 854.9 | 855.7 | 857.0 |
| 12.5° | 852.4 | 852.0 | 850.7 | 850.3 | 852.0 | 850.3 | 850.7 | 852.0 | 852.8 | 854.5 | 856.6 |
| 15° | 845.3 | 844.0 | 844.0 | 845.7 | 849.9 | 851.1 | 852.8 | 854.9 | 855.3 | 856.1 | 857.0 |
| 17.5° | 833.2 | 835.2 | 840.3 | 846.1 | 854.1 | 857.0 | 857.8 | 856.6 | 852.4 | 849.0 | 845.7 |
| 20° | 816.4 | 825.6 | 838.6 | 851.1 | 860.7 | 860.3 | 854.9 | 847.0 | 836.9 | 829.8 | 825.2 |
| 22.5° | 802.2 | 820.2 | 840.3 | 855.3 | 861.6 | 853.6 | 841.1 | 829.0 | 817.3 | 806.8 | 797.6 |
| 25° | 812.3 | 829.4 | 846.5 | 855.7 | 855.3 | 841.5 | 824.8 | 811.4 | 795.5 | 780.9 | 765.4 |
| 27.5° | 844.9 | 855.3 | 860.3 | 857.4 | 848.6 | 830.2 | 811.8 | 793.0 | 772.5 | 755.0 | 737.0 |
| 30° | 867.0 | 867.0 | 862.0 | 850.3 | 834.8 | 814.3 | 791.8 | 767.5 | 743.3 | 722.8 | 702.3 |
| 32.5° | 859.9 | 843.6 | 829.0 | 813.1 | 795.5 | 773.4 | 747.5 | 721.1 | 693.5 | 669.7 | 652.1 |
| 35° | 829.0 | 793.9 | 763.3 | 740.8 | 722.4 | 696.0 | 665.9 | 635.8 | 613.3 | 597.0 | 586.9 |
| 37.5° | 773.8 | 717.8 | 673.5 | 645.9 | 617.4 | 590.3 | 555.6 | 541.8 | 521.7 | 511.7 | 507.9 |
| 40° | 706.9 | 625.0 | 569.4 | 533.8 | 503.7 | 469.9 | 446.5 | 437.7 | 430.2 | 428.1 | 426.4 |
| 42.5° | 630.0 | 527.6 | 461.5 | 424.7 | 388.4 | 363.7 | 353.2 | 347.8 | 346.6 | 346.6 | 348.6 |
| 45° | 550.1 | 428.5 | 352.4 | 322.7 | 292.6 | 279.7 | 277.2 | 274.7 | 275.1 | 273.8 | 274.7 |
| 47.5° | 488.3 | 344.0 | 265.9 | 238.7 | 223.2 | 219.1 | 216.1 | 215.3 | 215.3 | 213.2 | 210.7 |
| 50° | 456.1 | 287.6 | 208.6 | 187.3 | 178.5 | 175.6 | 175.6 | 173.9 | 170.6 | 168.5 | 163.0 |
| 52.5° | 447.7 | 258.3 | 180.6 | 162.2 | 154.7 | 152.2 | 149.7 | 147.2 | 142.1 | 137.5 | 131.3 |
| 55° | 454.4 | 249.2 | 171.8 | 154.7 | 146.3 | 143.4 | 141.3 | 137.1 | 130.0 | 123.3 | 116.2 |
| 57.5° | 482.4 | 255.0 | 175.2 | 156.8 | 149.2 | 147.2 | 145.1 | 138.8 | 130.0 | 120.4 | 112.5 |
| 60° | 558.9 | 282.6 | 189.4 | 168.1 | 161.8 | 162.2 | 159.3 | 151.3 | 138.8 | 125.0 | 113.3 |
| 62.5° | 657.6 | 321.1 | 207.8 | 183.9 | 183.1 | 187.3 | 187.3 | 173.5 | 153.0 | 132.1 | 116.2 |
| 65° | 714.0 | 333.2 | 210.3 | 186.0 | 193.1 | 205.3 | 204.4 | 186.0 | 158.0 | 132.1 | 115.0 |
| 67° | 699.8 | 320.2 | 199.8 | 173.9 | 182.3 | 196.1 | 194.4 | 176.8 | 150.5 | 126.7 | 111.6 |
| 67.5° | 688.5 | 316.0 | 197.3 | 171.0 | 179.3 | 190.6 | 190.6 | 173.1 | 147.2 | 125.0 | 110.4 |
| 70° | 606.2 | 279.3 | 184.8 | 159.7 | 159.7 | 162.6 | 160.5 | 148.0 | 130.4 | 115.0 | 105.3 |
| 72.5° | 505.4 | 244.1 | 174.7 | 151.7 | 143.8 | 142.1 | 139.2 | 130.4 | 119.1 | 108.3 | 99.9 |
| 75° | 391.7 | 216.1 | 166.8 | 143.4 | 132.9 | 129.2 | 126.2 | 119.6 | 110.8 | 101.6 | 94.5 |
| 77.5° | 274.2 | 185.2 | 156.3 | 136.3 | 125.0 | 122.1 | 117.5 | 109.9 | 102.8 | 94.9 | 88.2 |
| 80° | 170.1 | 153.0 | 136.3 | 122.9 | 111.2 | 107.0 | 101.2 | 94.5 | 88.6 | 84.0 | 79.0 |
| 82.5° | 121.2 | 112.5 | 101.6 | 94.5 | 82.4 | 69.8 | 74.8 | 75.2 | 71.5 | 68.6 | 67.3 |
| 85° | 81.1 | 73.2 | 67.7 | 61.5 | 54.3 | 48.9 | 50.2 | 53.9 | 54.3 | 53.1 | 53.1 |
| 87.5° | 44.3 | 37.6 | 36.4 | 37.6 | 32.6 | 30.9 | 31.4 | 34.7 | 35.1 | 35.1 | 35.5 |
| 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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CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|-------|-------|-------|-------|
| 0° | 826.9 | 826.9 | 826.9 | 826.9 |
| 2.5° | 849.9 | 851.1 | 850.7 | 851.6 |
| 5° | 862.8 | 863.7 | 863.3 | 863.7 |
| 7.5° | 860.7 | 862.4 | 863.3 | 862.0 |
| 10° | 857.4 | 859.9 | 861.6 | 861.6 |
| 12.5° | 858.2 | 862.4 | 864.9 | 864.9 |
| 15° | 857.4 | 860.7 | 861.6 | 861.6 |
| 17.5° | 844.4 | 844.4 | 844.9 | 843.2 |
| 20° | 821.9 | 819.4 | 818.5 | 815.6 |
| 22.5° | 789.7 | 783.8 | 780.1 | 778.0 |
| 25° | 752.9 | 743.7 | 737.8 | 734.5 |
| 27.5° | 722.4 | 714.4 | 708.6 | 705.2 |
| 30° | 688.5 | 679.3 | 676.0 | 673.5 |
| 32.5° | 639.6 | 630.8 | 628.3 | 626.2 |
| 35° | 576.1 | 573.1 | 566.4 | 561.8 |
| 37.5° | 502.5 | 498.7 | 496.2 | 494.5 |
| 40° | 425.6 | 426.0 | 423.9 | 420.1 |
| 42.5° | 348.6 | 352.8 | 348.6 | 347.8 |
| 45° | 273.8 | 278.4 | 278.4 | 279.7 |
| 47.5° | 211.1 | 210.3 | 211.9 | 212.4 |
| 50° | 159.7 | 157.2 | 156.3 | 155.1 |
| 52.5° | 126.7 | 123.7 | 122.1 | 120.0 |
| 55° | 111.6 | 108.3 | 106.6 | 106.2 |
| 57.5° | 106.6 | 102.4 | 99.9 | 99.5 |
| 60° | 105.3 | 99.5 | 96.1 | 95.3 |
| 62.5° | 105.3 | 98.2 | 94.5 | 93.2 |
| 65° | 104.1 | 97.0 | 93.6 | 92.4 |
| 67° | 102.4 | 96.1 | 92.8 | 92.0 |
| 67.5° | 101.6 | 95.7 | 92.8 | 91.6 |
| 70° | 99.5 | 94.5 | 91.1 | 89.9 |
| 72.5° | 94.9 | 90.7 | 87.4 | 86.5 |
| 75° | 89.9 | 86.1 | 84.0 | 83.2 |
| 77.5° | 84.0 | 80.7 | 78.2 | 76.1 |
| 80° | 75.2 | 71.5 | 67.7 | 66.9 |
| 82.5° | 64.0 | 59.8 | 56.9 | 56.4 |
| 85° | 51.4 | 48.1 | 44.7 | 44.7 |
| 87.5° | 36.0 | 33.9 | 31.8 | 29.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)