

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: P145443

Luminaire Tested: **LDRL-SL4-F03-E-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145443
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33703)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRL-SL4-F03-E-8030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6024 lumens
Efficiency: N/A
Efficacy: 76.9 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

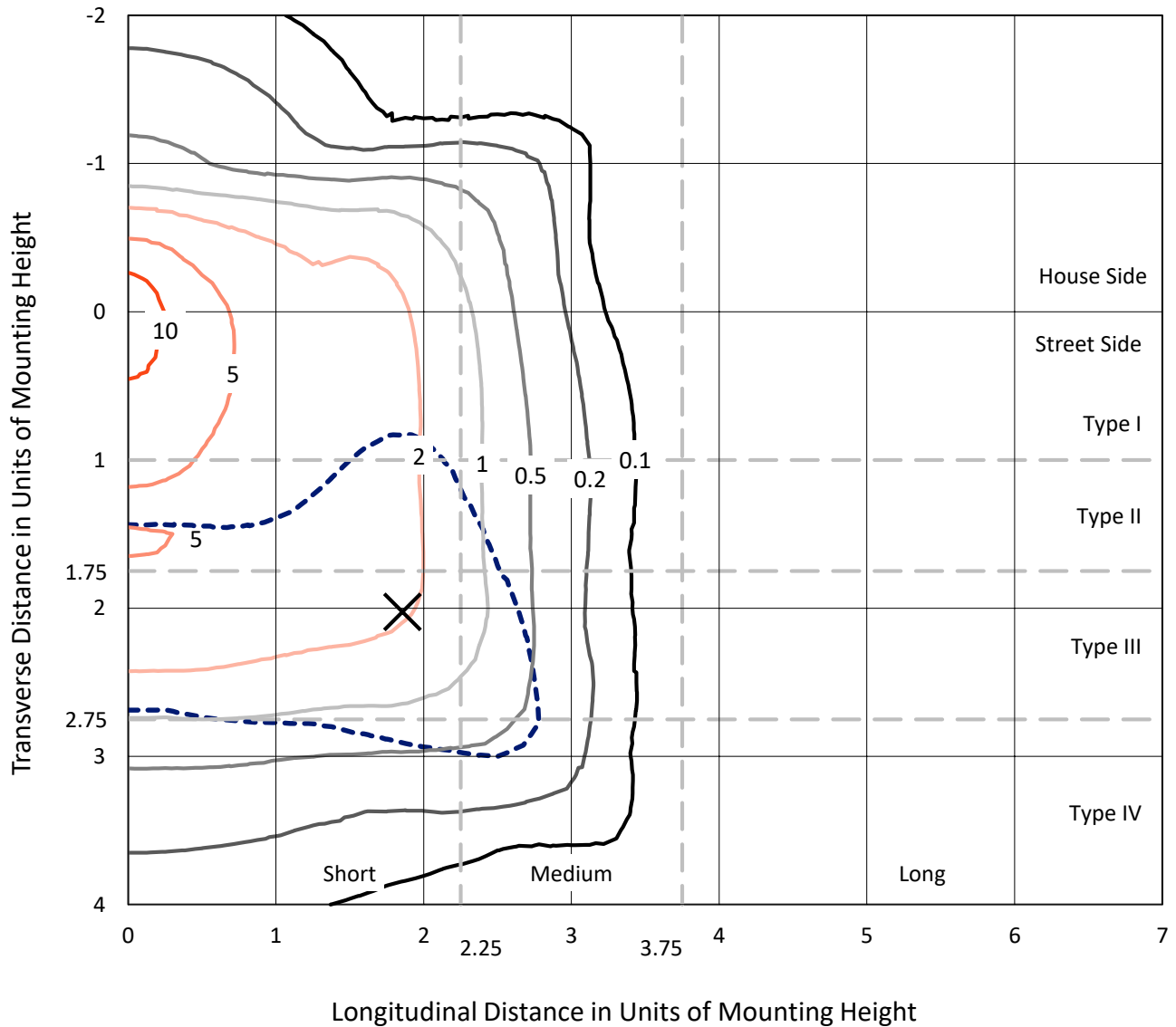
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

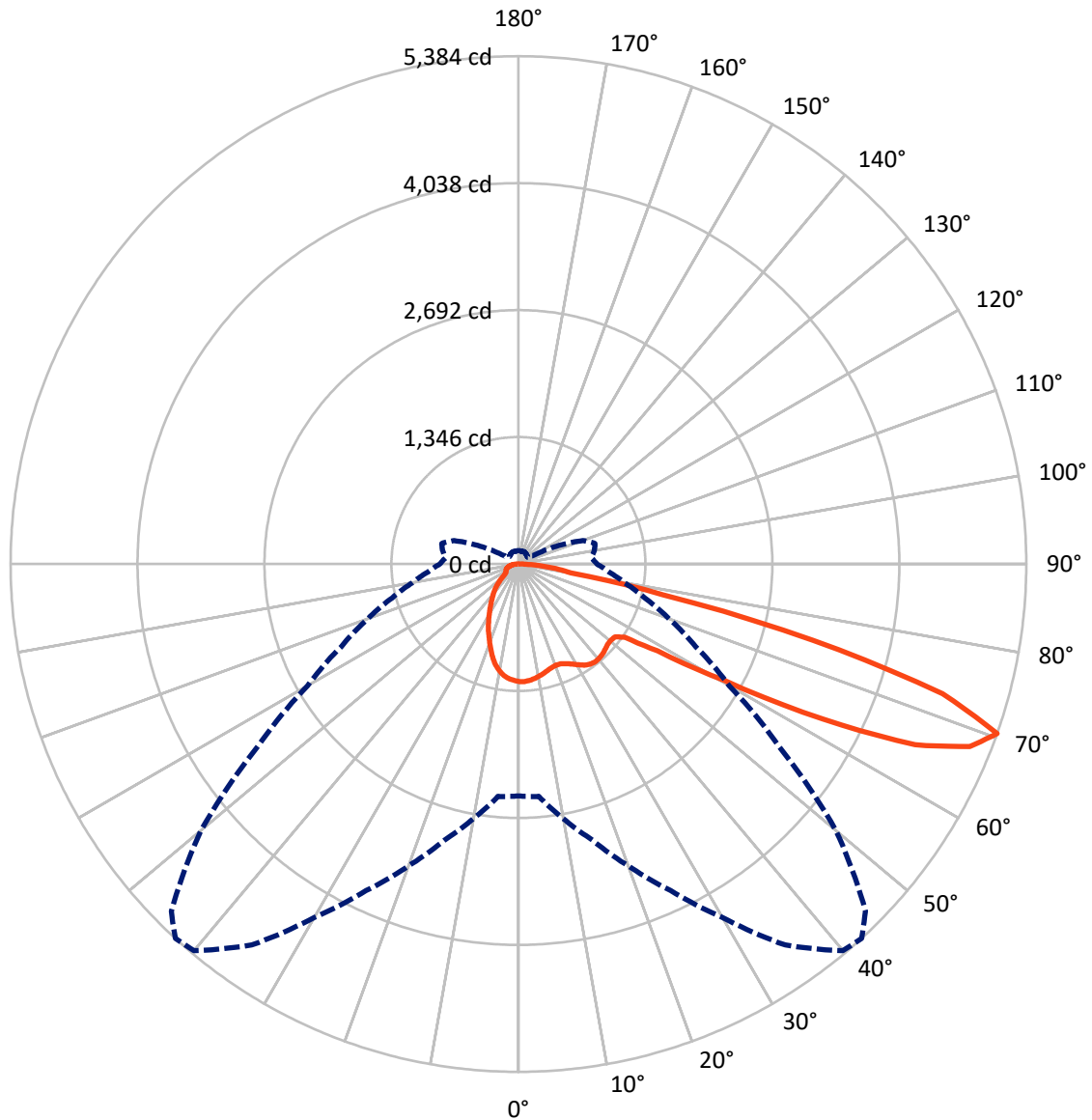
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 42.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1301.3 | 0.0 | 1301.3 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 4722.7 | 0.0 | 4722.7 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 6024.0 | 0.0 | 6024.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 115.9 | 1.9 |
| 10°-20° | 312.2 | 5.2 |
| 20°-30° | 455.5 | 7.6 |
| 30°-40° | 580.9 | 9.6 |
| 40°-50° | 678.0 | 11.3 |
| 50°-60° | 1036.9 | 17.2 |
| 60°-70° | 1879.6 | 31.2 |
| 70°-80° | 835.7 | 13.9 |
| 80°-90° | 129.3 | 2.1 |
| 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° | 6024.0 | 100.0 |
| 0°-180° | 6024.0 | 100.0 |

Coefficient of Utilization



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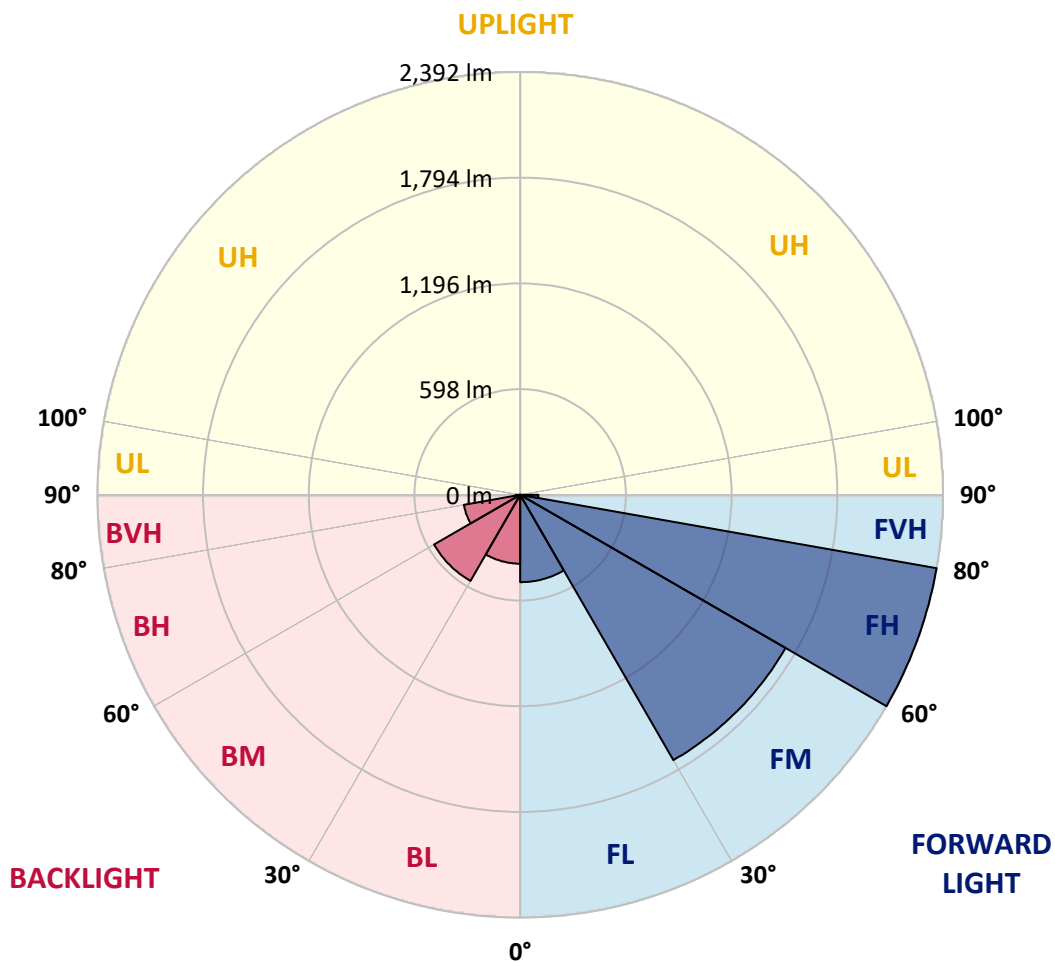
CATALOG NUMBER: LDRL-SL4-F03-E-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 494.1 | 8.2 | | | |
| FM | (30°-60°) | 1733.3 | 28.8 | | | |
| FH | (60°-80°) | 2392.0 | 39.7 | | | G2/5000 |
| FVH | (80°-90°) | 103.3 | 1.7 | | | G2/225 |
| BL | (0°-30°) | 389.5 | 6.5 | B1/500 | | |
| BM | (30°-60°) | 562.5 | 9.3 | B1/1000 | | |
| BH | (60°-80°) | 323.3 | 5.4 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 26.0 | 0.4 | | | 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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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 42.5° | 45° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1245.8 | 1245.8 | 1245.8 | 1245.8 | 1245.8 | 1245.8 | 1245.8 | 1245.8 | 1245.8 | 1245.8 | 1245.8 |
| 2.5° | 1251.6 | 1250.4 | 1251.2 | 1252.0 | 1252.0 | 1252.5 | 1248.7 | 1249.1 | 1247.4 | 1247.9 | 1248.3 |
| 5° | 1247.0 | 1245.8 | 1246.6 | 1246.6 | 1246.6 | 1246.2 | 1241.2 | 1240.7 | 1238.7 | 1238.7 | 1237.8 |
| 7.5° | 1238.2 | 1233.6 | 1236.1 | 1236.6 | 1235.7 | 1233.6 | 1230.7 | 1227.8 | 1226.5 | 1226.5 | 1223.6 |
| 10° | 1224.9 | 1219.8 | 1221.1 | 1221.9 | 1221.5 | 1217.3 | 1216.1 | 1213.2 | 1209.8 | 1208.6 | 1205.2 |
| 12.5° | 1207.7 | 1204.4 | 1206.0 | 1205.6 | 1205.6 | 1201.9 | 1199.8 | 1195.6 | 1191.4 | 1189.3 | 1185.1 |
| 15° | 1196.9 | 1192.7 | 1194.3 | 1194.3 | 1192.7 | 1188.9 | 1186.0 | 1178.5 | 1171.4 | 1168.8 | 1163.4 |
| 17.5° | 1203.5 | 1199.4 | 1201.0 | 1199.8 | 1196.9 | 1188.9 | 1181.4 | 1169.3 | 1158.0 | 1151.3 | 1144.2 |
| 20° | 1230.3 | 1226.1 | 1227.4 | 1226.5 | 1222.4 | 1209.4 | 1195.6 | 1174.7 | 1153.8 | 1143.8 | 1132.9 |
| 22.5° | 1272.9 | 1269.6 | 1271.7 | 1270.4 | 1263.7 | 1247.0 | 1226.5 | 1196.4 | 1165.1 | 1150.0 | 1134.6 |
| 25° | 1336.1 | 1335.2 | 1338.6 | 1334.8 | 1325.2 | 1300.1 | 1270.4 | 1229.9 | 1188.9 | 1170.1 | 1148.4 |
| 27.5° | 1412.1 | 1405.0 | 1410.1 | 1406.7 | 1400.0 | 1368.2 | 1328.1 | 1276.7 | 1224.4 | 1199.8 | 1173.9 |
| 30° | 1480.7 | 1474.4 | 1483.6 | 1482.0 | 1471.9 | 1439.3 | 1388.7 | 1328.5 | 1269.6 | 1238.2 | 1208.6 |
| 32.5° | 1560.1 | 1552.2 | 1559.3 | 1559.3 | 1544.2 | 1500.4 | 1442.7 | 1373.7 | 1311.8 | 1278.4 | 1242.8 |
| 35° | 1643.3 | 1635.0 | 1641.6 | 1639.6 | 1612.8 | 1554.7 | 1482.4 | 1407.5 | 1339.4 | 1305.1 | 1268.8 |
| 37.5° | 1720.7 | 1719.4 | 1721.1 | 1707.3 | 1670.1 | 1595.7 | 1509.1 | 1425.5 | 1353.2 | 1317.2 | 1279.2 |
| 40° | 1798.0 | 1795.1 | 1788.0 | 1763.7 | 1709.4 | 1619.9 | 1522.9 | 1431.8 | 1354.0 | 1316.4 | 1278.0 |
| 42.5° | 1846.5 | 1841.1 | 1828.9 | 1795.9 | 1727.8 | 1625.8 | 1518.7 | 1422.2 | 1344.0 | 1305.5 | 1267.9 |
| 45° | 1863.2 | 1857.8 | 1843.1 | 1805.9 | 1728.2 | 1616.6 | 1502.4 | 1402.9 | 1325.2 | 1290.1 | 1252.0 |
| 47.5° | 1849.4 | 1846.1 | 1832.7 | 1795.5 | 1714.8 | 1599.4 | 1482.0 | 1383.7 | 1307.2 | 1272.9 | 1237.4 |
| 50° | 1826.0 | 1823.9 | 1812.2 | 1777.9 | 1702.3 | 1589.0 | 1472.3 | 1374.5 | 1302.2 | 1270.4 | 1237.0 |
| 52.5° | 1884.5 | 1878.3 | 1857.4 | 1816.8 | 1728.6 | 1607.8 | 1487.4 | 1388.3 | 1313.9 | 1281.7 | 1247.4 |
| 55° | 2604.0 | 2557.6 | 2453.9 | 2259.5 | 1987.4 | 1776.3 | 1598.6 | 1479.0 | 1398.8 | 1367.4 | 1334.8 |
| 57.5° | 3424.6 | 3376.1 | 3333.0 | 3184.6 | 2861.5 | 2462.7 | 2104.0 | 1894.1 | 1750.3 | 1736.5 | 1723.6 |
| 60° | 3740.6 | 3756.1 | 3752.3 | 3697.2 | 3531.6 | 3342.2 | 3042.1 | 2794.2 | 2519.5 | 2508.2 | 2524.6 |
| 62.5° | 3958.4 | 3971.4 | 3973.1 | 3956.3 | 3902.4 | 3839.3 | 3776.6 | 3697.2 | 3644.9 | 3622.3 | 3476.4 |
| 65° | 4048.3 | 4067.1 | 4108.5 | 4139.4 | 4148.2 | 4170.0 | 4226.8 | 4442.9 | 4623.1 | 4621.9 | 4450.9 |
| 67.5° | 3705.1 | 3727.7 | 3884.4 | 4038.3 | 4167.5 | 4317.1 | 4547.5 | 4899.0 | 5170.3 | 5162.0 | 5021.9 |
| 70° | 2458.9 | 2473.1 | 2739.4 | 3029.1 | 3404.9 | 3820.5 | 4323.8 | 4930.0 | 5350.5 | 5383.5 | 5202.9 |
| 72.5° | 1508.3 | 1540.9 | 1627.9 | 1745.3 | 1946.0 | 2331.0 | 3079.3 | 4115.2 | 4732.2 | 4701.3 | 4557.5 |
| 75° | 1018.3 | 1020.0 | 1017.5 | 1030.1 | 1041.3 | 1119.1 | 1420.5 | 2262.9 | 3205.5 | 3222.3 | 3160.4 |
| 77.5° | 696.0 | 705.2 | 710.3 | 706.9 | 718.2 | 714.9 | 732.4 | 775.5 | 1228.6 | 1568.1 | 1441.0 |
| 80° | 608.3 | 612.0 | 617.4 | 609.5 | 588.6 | 576.9 | 593.2 | 577.7 | 544.3 | 562.3 | 538.4 |
| 82.5° | 385.0 | 396.3 | 397.6 | 425.1 | 466.1 | 467.8 | 488.7 | 473.2 | 430.6 | 402.6 | 368.3 |
| 85° | 276.7 | 280.9 | 288.4 | 290.1 | 275.9 | 263.8 | 271.3 | 258.3 | 232.8 | 217.8 | 192.7 |
| 87.5° | 161.4 | 165.5 | 173.1 | 168.5 | 154.3 | 136.7 | 123.3 | 106.2 | 84.0 | 78.6 | 69.4 |
| 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: LDRL-SL4-F03-E-8030

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1245.8 | 1245.8 | 1245.8 | 1245.8 | 1245.8 | 1245.8 | 1245.8 | 1245.8 | 1245.8 | 1245.8 | 1245.8 |
| 2.5° | 1248.7 | 1246.6 | 1244.9 | 1244.1 | 1245.8 | 1244.1 | 1242.4 | 1241.6 | 1239.9 | 1240.3 | 1238.2 |
| 5° | 1237.0 | 1234.1 | 1231.5 | 1229.5 | 1231.1 | 1228.2 | 1225.7 | 1224.0 | 1221.9 | 1221.5 | 1219.4 |
| 7.5° | 1220.7 | 1216.1 | 1212.7 | 1209.0 | 1204.8 | 1202.3 | 1199.4 | 1196.4 | 1191.8 | 1191.4 | 1190.6 |
| 10° | 1199.4 | 1195.6 | 1188.9 | 1183.1 | 1177.2 | 1170.9 | 1164.7 | 1160.1 | 1154.6 | 1152.5 | 1149.6 |
| 12.5° | 1178.0 | 1170.5 | 1162.6 | 1153.4 | 1146.3 | 1136.2 | 1127.9 | 1119.1 | 1111.2 | 1106.1 | 1100.7 |
| 15° | 1153.0 | 1145.0 | 1133.7 | 1124.9 | 1114.9 | 1103.6 | 1092.8 | 1079.8 | 1066.8 | 1058.9 | 1051.4 |
| 17.5° | 1131.2 | 1121.2 | 1112.0 | 1099.4 | 1089.4 | 1076.5 | 1060.2 | 1046.4 | 1030.9 | 1017.9 | 1004.1 |
| 20° | 1114.5 | 1103.2 | 1092.3 | 1081.1 | 1068.9 | 1054.3 | 1036.3 | 1016.7 | 997.0 | 978.6 | 958.2 |
| 22.5° | 1107.8 | 1089.8 | 1077.7 | 1067.3 | 1054.7 | 1038.0 | 1017.9 | 993.7 | 969.4 | 946.0 | 922.2 |
| 25° | 1113.7 | 1086.9 | 1068.1 | 1056.4 | 1045.1 | 1028.0 | 1005.4 | 977.8 | 949.4 | 919.7 | 891.3 |
| 27.5° | 1129.5 | 1095.7 | 1068.9 | 1050.5 | 1037.6 | 1020.9 | 995.8 | 966.9 | 934.7 | 901.3 | 870.8 |
| 30° | 1152.5 | 1110.3 | 1076.9 | 1050.5 | 1031.3 | 1012.1 | 984.9 | 952.3 | 918.4 | 883.3 | 849.0 |
| 32.5° | 1177.6 | 1126.6 | 1086.5 | 1051.8 | 1022.1 | 997.9 | 969.4 | 937.7 | 901.7 | 864.5 | 827.7 |
| 35° | 1196.4 | 1138.3 | 1090.7 | 1047.2 | 1009.2 | 978.6 | 948.1 | 917.2 | 882.1 | 844.4 | 807.7 |
| 37.5° | 1204.4 | 1142.9 | 1089.8 | 1037.6 | 991.2 | 957.7 | 926.0 | 895.0 | 861.2 | 825.6 | 791.8 |
| 40° | 1204.8 | 1142.9 | 1084.8 | 1024.6 | 972.4 | 936.0 | 902.6 | 873.7 | 841.9 | 811.4 | 781.3 |
| 42.5° | 1196.9 | 1137.1 | 1075.6 | 1012.5 | 958.6 | 917.6 | 883.3 | 853.6 | 828.1 | 801.0 | 775.5 |
| 45° | 1182.6 | 1125.4 | 1067.3 | 1005.8 | 953.6 | 913.0 | 876.2 | 848.2 | 825.2 | 801.0 | 778.8 |
| 47.5° | 1171.8 | 1118.7 | 1067.7 | 1015.4 | 965.7 | 923.9 | 884.2 | 854.5 | 834.8 | 815.6 | 799.7 |
| 50° | 1173.9 | 1121.2 | 1072.7 | 1022.9 | 974.0 | 931.8 | 893.4 | 867.9 | 856.1 | 849.9 | 846.1 |
| 52.5° | 1184.7 | 1131.2 | 1094.4 | 1061.4 | 1045.5 | 1019.6 | 998.3 | 979.1 | 982.0 | 966.9 | 947.7 |
| 55° | 1296.8 | 1278.8 | 1321.0 | 1351.5 | 1366.6 | 1392.9 | 1431.0 | 1394.6 | 1389.6 | 1343.2 | 1205.2 |
| 57.5° | 1741.1 | 1783.8 | 1848.6 | 1894.6 | 1899.2 | 1891.2 | 1859.9 | 1829.8 | 1780.9 | 1711.0 | 1517.9 |
| 60° | 2486.5 | 2476.5 | 2416.3 | 2335.6 | 2272.9 | 2190.5 | 2107.8 | 2038.0 | 1959.4 | 1852.3 | 1646.7 |
| 62.5° | 3270.3 | 3028.7 | 2814.3 | 2631.6 | 2476.5 | 2338.9 | 2213.9 | 2109.0 | 2001.2 | 1847.3 | 1628.3 |
| 65° | 3903.3 | 3438.4 | 3060.5 | 2766.6 | 2535.8 | 2341.4 | 2180.1 | 2035.4 | 1891.2 | 1713.1 | 1500.8 |
| 67.5° | 4355.6 | 3618.1 | 3047.9 | 2634.5 | 2310.9 | 2043.4 | 1808.4 | 1643.7 | 1495.8 | 1355.7 | 1260.0 |
| 70° | 4391.5 | 3369.4 | 2578.5 | 2072.6 | 1699.3 | 1385.0 | 1141.3 | 961.5 | 832.7 | 774.6 | 816.0 |
| 72.5° | 3752.8 | 2492.8 | 1714.4 | 1268.8 | 1007.1 | 782.6 | 629.2 | 502.9 | 399.2 | 348.2 | 355.3 |
| 75° | 2210.2 | 1196.9 | 772.1 | 575.2 | 469.9 | 375.4 | 324.8 | 274.2 | 242.0 | 194.0 | 155.1 |
| 77.5° | 841.5 | 520.5 | 389.6 | 323.6 | 230.8 | 166.0 | 130.8 | 112.9 | 103.7 | 102.4 | 97.0 |
| 80° | 484.9 | 381.7 | 267.1 | 174.7 | 127.9 | 108.3 | 92.8 | 79.4 | 74.0 | 72.7 | 74.8 |
| 82.5° | 306.4 | 237.9 | 146.7 | 112.5 | 93.2 | 80.3 | 66.9 | 58.1 | 53.5 | 51.8 | 54.8 |
| 85° | 158.4 | 119.1 | 89.5 | 76.9 | 71.5 | 65.2 | 53.5 | 44.7 | 44.3 | 46.4 | 53.5 |
| 87.5° | 58.5 | 51.0 | 40.1 | 34.7 | 37.2 | 34.7 | 25.1 | 21.7 | 19.6 | 25.9 | 37.6 |
| 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: LDRL-SL4-F03-E-8030

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1245.8 | 1245.8 | 1245.8 | 1245.8 | 1245.8 | 1245.8 | 1245.8 | 1245.8 | 1245.8 | 1245.8 | 1245.8 |
| 2.5° | 1238.2 | 1237.4 | 1237.8 | 1237.0 | 1237.0 | 1238.2 | 1236.6 | 1235.3 | 1237.4 | 1237.4 | 1238.7 |
| 5° | 1219.0 | 1219.8 | 1219.8 | 1219.4 | 1220.3 | 1222.4 | 1221.9 | 1221.9 | 1225.3 | 1226.5 | 1228.2 |
| 7.5° | 1188.5 | 1189.7 | 1190.2 | 1191.4 | 1191.8 | 1194.8 | 1196.9 | 1199.4 | 1204.4 | 1205.6 | 1209.4 |
| 10° | 1147.1 | 1146.3 | 1149.2 | 1148.8 | 1152.5 | 1155.0 | 1156.7 | 1162.2 | 1169.7 | 1173.9 | 1177.6 |
| 12.5° | 1098.2 | 1098.2 | 1099.9 | 1100.3 | 1103.6 | 1107.0 | 1109.1 | 1115.8 | 1122.0 | 1127.5 | 1135.8 |
| 15° | 1046.4 | 1044.7 | 1040.9 | 1040.5 | 1041.8 | 1045.1 | 1049.7 | 1054.7 | 1064.3 | 1072.3 | 1079.4 |
| 17.5° | 992.0 | 987.0 | 982.4 | 976.5 | 976.1 | 975.7 | 978.2 | 982.0 | 997.0 | 1005.0 | 1015.0 |
| 20° | 943.9 | 933.1 | 922.2 | 910.1 | 903.0 | 899.6 | 900.9 | 905.9 | 920.1 | 930.6 | 941.0 |
| 22.5° | 900.9 | 884.6 | 867.4 | 848.2 | 836.5 | 829.4 | 830.2 | 832.3 | 842.8 | 849.0 | 854.5 |
| 25° | 864.1 | 841.5 | 817.7 | 793.0 | 776.7 | 765.9 | 765.4 | 765.4 | 760.8 | 761.7 | 758.7 |
| 27.5° | 839.0 | 807.7 | 777.1 | 748.3 | 727.0 | 716.1 | 701.5 | 691.0 | 681.8 | 669.3 | 663.8 |
| 30° | 814.8 | 782.6 | 747.9 | 716.1 | 690.6 | 669.3 | 642.1 | 619.5 | 601.6 | 584.4 | 569.8 |
| 32.5° | 793.0 | 759.6 | 726.6 | 691.9 | 656.7 | 620.0 | 584.4 | 558.5 | 533.0 | 506.7 | 489.1 |
| 35° | 773.8 | 742.4 | 709.4 | 670.1 | 620.8 | 572.7 | 532.6 | 497.5 | 467.4 | 435.6 | 410.1 |
| 37.5° | 762.9 | 734.5 | 700.2 | 646.7 | 584.8 | 530.1 | 485.3 | 446.1 | 405.9 | 367.9 | 336.5 |
| 40° | 757.5 | 732.4 | 690.6 | 622.9 | 552.7 | 494.1 | 444.4 | 397.1 | 349.9 | 305.2 | 272.6 |
| 42.5° | 756.7 | 732.4 | 676.4 | 598.6 | 525.1 | 462.4 | 406.8 | 349.9 | 292.6 | 249.2 | 220.3 |
| 45° | 764.2 | 731.6 | 661.3 | 576.9 | 500.4 | 433.9 | 367.0 | 300.2 | 241.2 | 203.2 | 187.3 |
| 47.5° | 785.9 | 734.5 | 649.6 | 558.5 | 477.0 | 402.6 | 321.9 | 245.0 | 194.8 | 177.7 | 177.2 |
| 50° | 821.0 | 747.9 | 647.1 | 545.1 | 454.0 | 363.3 | 268.8 | 196.1 | 171.8 | 171.0 | 175.6 |
| 52.5° | 876.6 | 773.0 | 653.4 | 535.9 | 426.4 | 312.3 | 212.8 | 169.3 | 164.7 | 169.3 | 175.2 |
| 55° | 999.1 | 817.7 | 661.8 | 519.6 | 381.7 | 247.5 | 175.2 | 160.5 | 162.6 | 168.1 | 173.5 |
| 57.5° | 1221.9 | 910.5 | 670.5 | 482.8 | 309.4 | 190.2 | 157.6 | 157.2 | 160.9 | 165.5 | 170.6 |
| 60° | 1363.2 | 1025.0 | 691.9 | 428.5 | 233.7 | 157.2 | 150.9 | 155.1 | 159.7 | 163.0 | 167.2 |
| 62.5° | 1367.8 | 1055.1 | 703.1 | 370.4 | 173.9 | 143.8 | 145.1 | 153.0 | 158.4 | 159.7 | 161.8 |
| 65° | 1279.6 | 998.3 | 652.1 | 301.4 | 144.2 | 136.3 | 140.9 | 148.0 | 153.4 | 154.3 | 155.9 |
| 67.5° | 1117.8 | 880.4 | 552.7 | 227.4 | 131.3 | 130.4 | 135.4 | 140.9 | 144.6 | 148.0 | 150.5 |
| 70° | 841.9 | 726.6 | 444.4 | 176.4 | 123.3 | 122.5 | 127.5 | 132.1 | 135.4 | 139.6 | 143.8 |
| 72.5° | 426.8 | 502.9 | 336.9 | 144.2 | 112.5 | 113.3 | 118.7 | 122.9 | 125.4 | 129.2 | 133.4 |
| 75° | 145.5 | 219.5 | 213.2 | 116.6 | 100.3 | 103.7 | 106.2 | 110.8 | 114.5 | 117.1 | 119.1 |
| 77.5° | 91.1 | 95.3 | 109.9 | 94.1 | 88.6 | 89.5 | 93.6 | 97.8 | 102.0 | 103.7 | 104.5 |
| 80° | 76.1 | 76.5 | 76.9 | 75.2 | 75.7 | 78.2 | 80.7 | 85.3 | 89.5 | 90.3 | 90.7 |
| 82.5° | 60.2 | 64.4 | 64.0 | 63.5 | 65.6 | 68.1 | 69.8 | 71.5 | 73.2 | 74.0 | 75.2 |
| 85° | 53.1 | 52.3 | 52.7 | 53.9 | 52.3 | 50.6 | 50.2 | 50.2 | 52.7 | 55.6 | 56.9 |
| 87.5° | 48.5 | 41.4 | 30.9 | 29.3 | 29.3 | 28.4 | 26.8 | 26.8 | 29.3 | 31.8 | 33.0 |
| 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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| 52.5° | 179.3 | 181.0 | 182.3 | 183.5 | 184.8 |
| 55° | 177.7 | 178.5 | 178.1 | 178.9 | 180.2 |
| 57.5° | 173.5 | 173.9 | 173.1 | 173.5 | 176.0 |
| 60° | 169.7 | 170.1 | 168.5 | 170.6 | 171.0 |
| 62.5° | 165.1 | 164.7 | 163.9 | 165.1 | 165.1 |
| 65° | 158.4 | 155.9 | 156.8 | 158.0 | 158.4 |
| 67.5° | 150.5 | 148.0 | 148.0 | 148.8 | 150.1 |
| 70° | 140.5 | 139.2 | 139.2 | 140.9 | 142.6 |
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