

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: P145445

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145445
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
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7137.6 lumens
Efficiency: N/A
Efficacy: 91.2 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

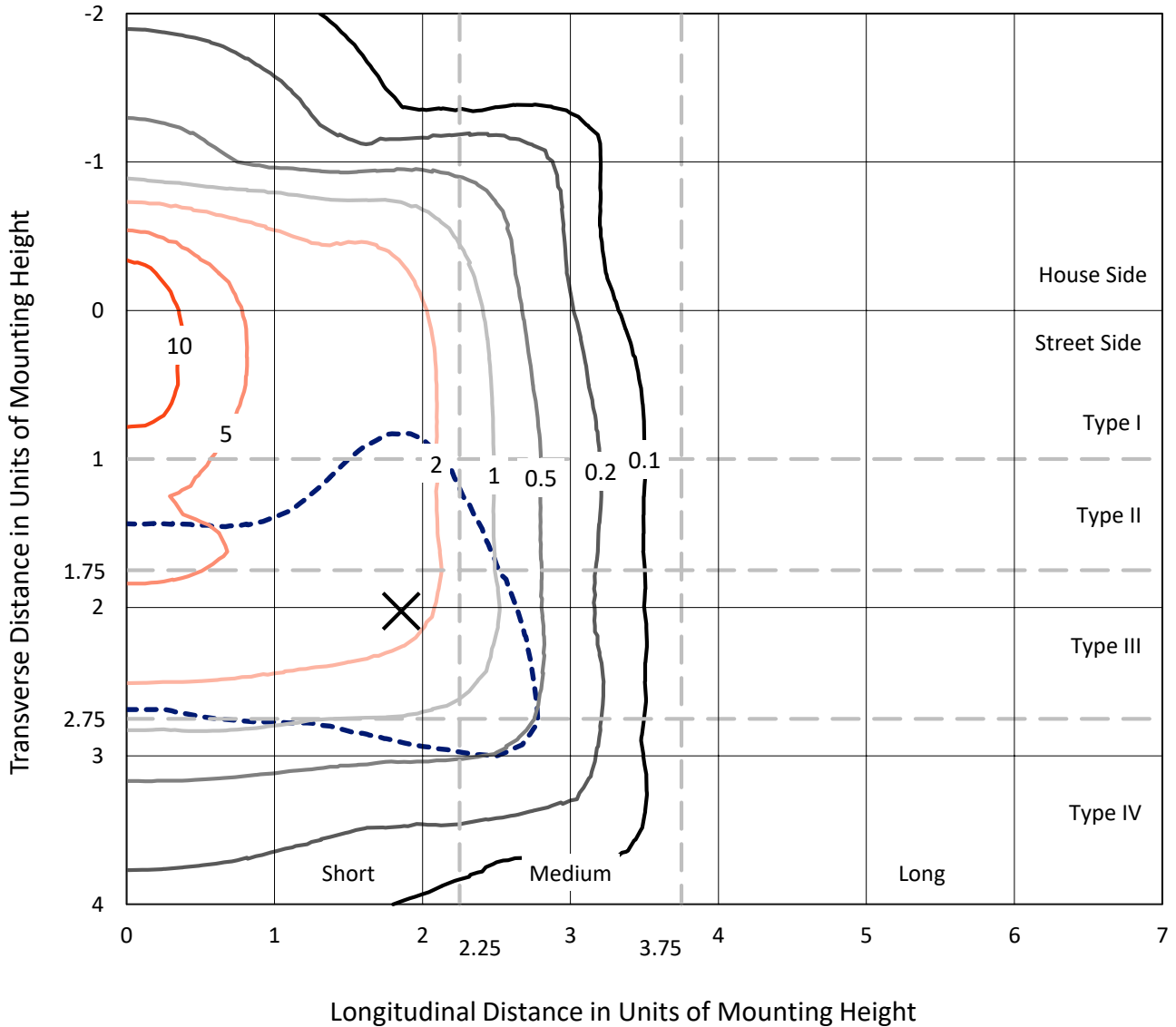
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

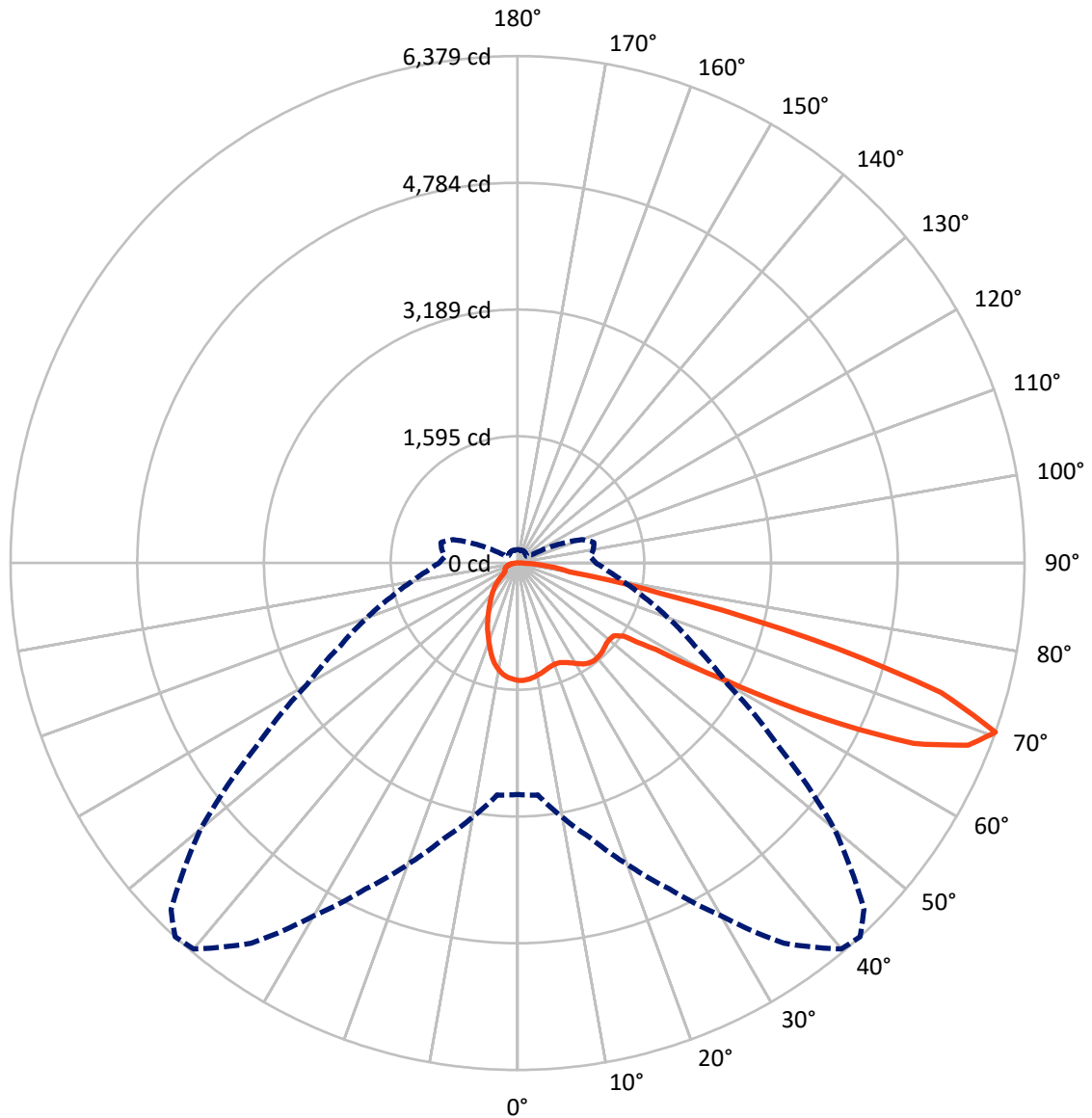
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.8 fc
 Type IV - Short - Semi-Cutoff

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CATALOG NUMBER: LDRL-SL4-F03-E

Luminous Intensity Polar Plot



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

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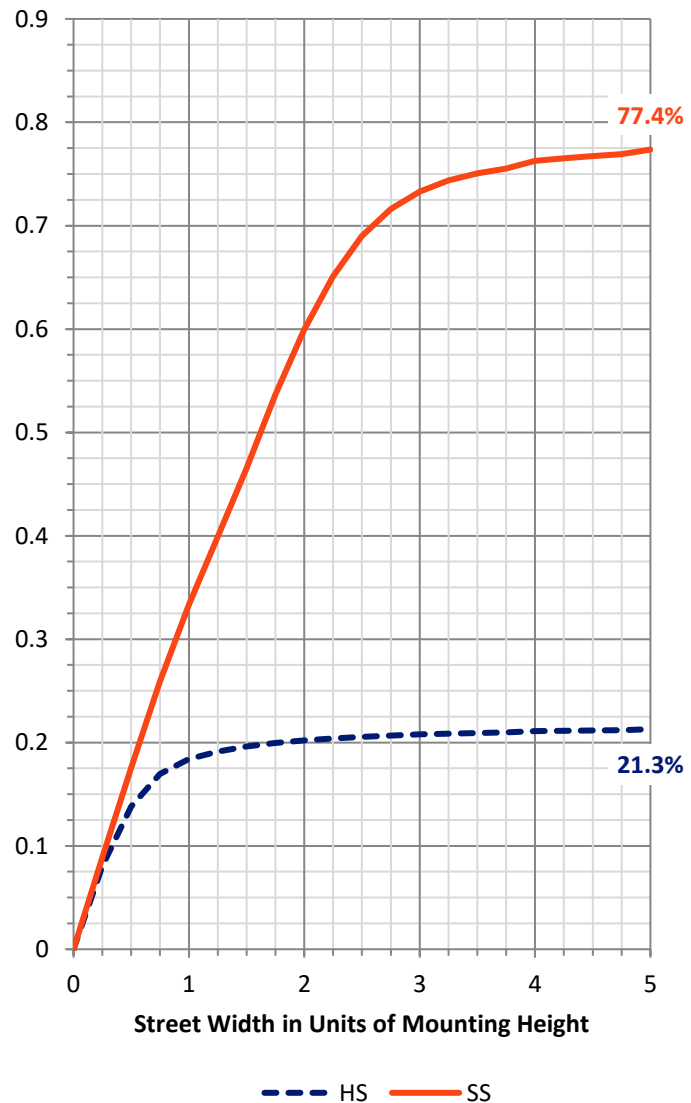
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1541.8 | 0.0 | 1541.8 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 5595.7 | 0.0 | 5595.7 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 7137.6 | 0.0 | 7137.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 137.3 | 1.9 |
| 10°-20° | 370.0 | 5.2 |
| 20°-30° | 539.6 | 7.6 |
| 30°-40° | 688.3 | 9.6 |
| 40°-50° | 803.3 | 11.3 |
| 50°-60° | 1228.5 | 17.2 |
| 60°-70° | 2227.0 | 31.2 |
| 70°-80° | 990.2 | 13.9 |
| 80°-90° | 153.2 | 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° | 7137.6 | 100.0 |
| 0°-180° | 7137.6 | 100.0 |



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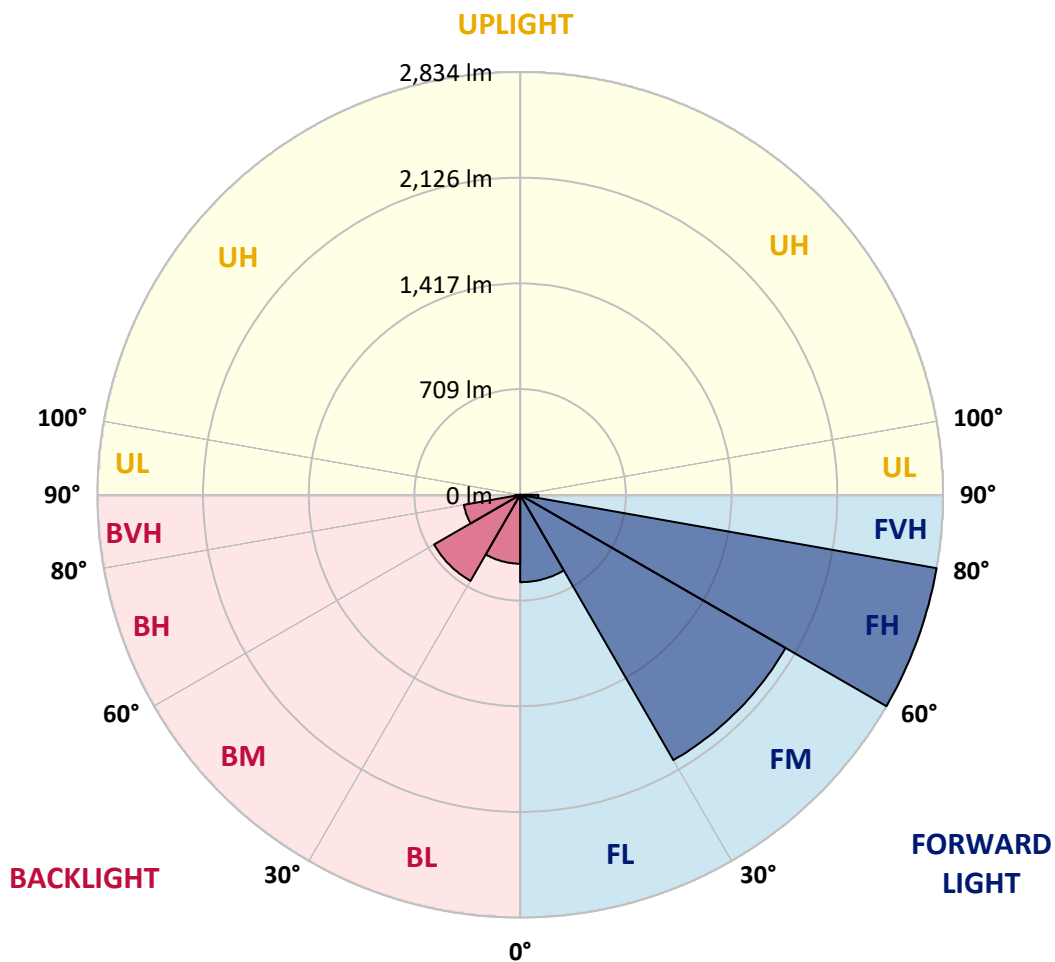
CATALOG NUMBER: LDRL-SL4-F03-E

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 585.5 | 8.2 | | | |
| FM | (30°-60°) | 2053.7 | 28.8 | | | |
| FH | (60°-80°) | 2834.2 | 39.7 | | | G2/5000 |
| FVH | (80°-90°) | 122.4 | 1.7 | | | G2/225 |
| BL | (0°-30°) | 461.5 | 6.5 | B1/500 | | |
| BM | (30°-60°) | 666.5 | 9.3 | B1/1000 | | |
| BH | (60°-80°) | 383.0 | 5.4 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 30.8 | 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° | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 |
| 2.5° | 1483.0 | 1481.5 | 1482.5 | 1483.5 | 1483.5 | 1484.0 | 1479.5 | 1480.0 | 1478.0 | 1478.5 | 1479.0 |
| 5° | 1477.5 | 1476.0 | 1477.0 | 1477.0 | 1477.0 | 1476.5 | 1470.6 | 1470.1 | 1467.6 | 1467.6 | 1466.6 |
| 7.5° | 1467.1 | 1461.7 | 1464.6 | 1465.1 | 1464.2 | 1461.7 | 1458.2 | 1454.7 | 1453.3 | 1453.3 | 1449.8 |
| 10° | 1451.3 | 1445.3 | 1446.8 | 1447.8 | 1447.3 | 1442.4 | 1440.9 | 1437.4 | 1433.4 | 1432.0 | 1428.0 |
| 12.5° | 1431.0 | 1427.0 | 1429.0 | 1428.5 | 1428.5 | 1424.0 | 1421.6 | 1416.6 | 1411.6 | 1409.2 | 1404.2 |
| 15° | 1418.1 | 1413.1 | 1415.1 | 1415.1 | 1413.1 | 1408.7 | 1405.2 | 1396.3 | 1387.9 | 1384.9 | 1378.5 |
| 17.5° | 1426.0 | 1421.1 | 1423.0 | 1421.6 | 1418.1 | 1408.7 | 1399.8 | 1385.4 | 1372.0 | 1364.1 | 1355.7 |
| 20° | 1457.7 | 1452.8 | 1454.2 | 1453.3 | 1448.3 | 1432.9 | 1416.6 | 1391.8 | 1367.1 | 1355.2 | 1342.3 |
| 22.5° | 1508.2 | 1504.3 | 1506.7 | 1505.3 | 1497.3 | 1477.5 | 1453.3 | 1417.6 | 1380.4 | 1362.6 | 1344.3 |
| 25° | 1583.0 | 1582.0 | 1586.0 | 1581.5 | 1570.1 | 1540.4 | 1505.3 | 1457.2 | 1408.7 | 1386.4 | 1360.6 |
| 27.5° | 1673.2 | 1664.8 | 1670.7 | 1666.7 | 1658.8 | 1621.2 | 1573.6 | 1512.7 | 1450.8 | 1421.6 | 1390.8 |
| 30° | 1754.4 | 1747.0 | 1757.9 | 1755.9 | 1744.0 | 1705.4 | 1645.4 | 1574.1 | 1504.3 | 1467.1 | 1432.0 |
| 32.5° | 1848.5 | 1839.1 | 1847.5 | 1847.5 | 1829.7 | 1777.7 | 1709.3 | 1627.6 | 1554.3 | 1514.7 | 1472.6 |
| 35° | 1947.1 | 1937.2 | 1945.1 | 1942.6 | 1910.9 | 1842.1 | 1756.4 | 1667.7 | 1587.0 | 1546.4 | 1503.3 |
| 37.5° | 2038.7 | 2037.2 | 2039.2 | 2022.9 | 1978.8 | 1890.6 | 1788.1 | 1689.0 | 1603.3 | 1560.7 | 1515.7 |
| 40° | 2130.3 | 2126.9 | 2118.5 | 2089.7 | 2025.3 | 1919.3 | 1804.4 | 1696.5 | 1604.3 | 1559.7 | 1514.2 |
| 42.5° | 2187.8 | 2181.4 | 2167.0 | 2127.9 | 2047.1 | 1926.3 | 1799.5 | 1685.1 | 1592.4 | 1546.9 | 1502.3 |
| 45° | 2207.6 | 2201.2 | 2183.8 | 2139.8 | 2047.6 | 1915.4 | 1780.2 | 1662.3 | 1570.1 | 1528.5 | 1483.5 |
| 47.5° | 2191.3 | 2187.3 | 2171.5 | 2127.4 | 2031.8 | 1895.1 | 1755.9 | 1639.5 | 1548.8 | 1508.2 | 1466.1 |
| 50° | 2163.5 | 2161.1 | 2147.2 | 2106.6 | 2016.9 | 1882.7 | 1744.5 | 1628.6 | 1542.9 | 1505.3 | 1465.6 |
| 52.5° | 2232.9 | 2225.5 | 2200.7 | 2152.6 | 2048.1 | 1905.0 | 1762.3 | 1644.9 | 1556.8 | 1518.6 | 1478.0 |
| 55° | 3085.3 | 3030.3 | 2907.5 | 2677.2 | 2354.7 | 2104.6 | 1894.1 | 1752.4 | 1657.3 | 1620.2 | 1581.5 |
| 57.5° | 4057.6 | 4000.2 | 3949.1 | 3773.3 | 3390.4 | 2917.9 | 2492.9 | 2244.3 | 2073.9 | 2057.5 | 2042.2 |
| 60° | 4432.1 | 4450.4 | 4445.9 | 4380.6 | 4184.4 | 3960.0 | 3604.4 | 3310.7 | 2985.3 | 2971.9 | 2991.2 |
| 62.5° | 4690.1 | 4705.5 | 4707.5 | 4687.7 | 4623.8 | 4549.0 | 4474.7 | 4380.6 | 4318.7 | 4291.9 | 4119.0 |
| 65° | 4796.6 | 4818.9 | 4868.0 | 4904.6 | 4915.0 | 4940.8 | 5008.1 | 5264.2 | 5477.7 | 5476.2 | 5273.6 |
| 67.5° | 4390.0 | 4416.7 | 4602.5 | 4784.7 | 4937.8 | 5115.1 | 5388.0 | 5804.6 | 6126.1 | 6116.1 | 5950.2 |
| 70° | 2913.4 | 2930.3 | 3245.8 | 3589.1 | 4034.3 | 4526.7 | 5123.0 | 5841.2 | 6339.5 | 6378.7 | 6164.7 |
| 72.5° | 1787.1 | 1825.7 | 1928.8 | 2067.9 | 2305.7 | 2761.9 | 3648.5 | 4875.9 | 5607.0 | 5570.3 | 5399.9 |
| 75° | 1206.6 | 1208.6 | 1205.6 | 1220.5 | 1233.8 | 1326.0 | 1683.1 | 2681.1 | 3798.1 | 3817.9 | 3744.6 |
| 77.5° | 824.7 | 835.6 | 841.5 | 837.6 | 851.0 | 847.0 | 867.8 | 918.8 | 1455.7 | 1857.9 | 1707.4 |
| 80° | 720.7 | 725.1 | 731.6 | 722.2 | 697.4 | 683.5 | 702.9 | 684.5 | 644.9 | 666.2 | 638.0 |
| 82.5° | 456.2 | 469.6 | 471.0 | 503.7 | 552.3 | 554.3 | 579.0 | 560.7 | 510.2 | 477.0 | 436.4 |
| 85° | 327.9 | 332.9 | 341.8 | 343.7 | 326.9 | 312.5 | 321.5 | 306.1 | 275.9 | 258.1 | 228.3 |
| 87.5° | 191.2 | 196.1 | 205.1 | 199.6 | 182.8 | 162.0 | 146.1 | 125.8 | 99.6 | 93.1 | 82.2 |
| 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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CATALOG NUMBER: LDRL-SL4-F03-E

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 |
| 2.5° | 1479.5 | 1477.0 | 1475.0 | 1474.1 | 1476.0 | 1474.1 | 1472.1 | 1471.1 | 1469.1 | 1469.6 | 1467.1 |
| 5° | 1465.6 | 1462.2 | 1459.2 | 1456.7 | 1458.7 | 1455.2 | 1452.3 | 1450.3 | 1447.8 | 1447.3 | 1444.8 |
| 7.5° | 1446.3 | 1440.9 | 1436.9 | 1432.5 | 1427.5 | 1424.5 | 1421.1 | 1417.6 | 1412.1 | 1411.6 | 1410.7 |
| 10° | 1421.1 | 1416.6 | 1408.7 | 1401.7 | 1394.8 | 1387.4 | 1379.9 | 1374.5 | 1368.1 | 1365.6 | 1362.1 |
| 12.5° | 1395.8 | 1386.9 | 1377.5 | 1366.6 | 1358.2 | 1346.3 | 1336.4 | 1326.0 | 1316.5 | 1310.6 | 1304.2 |
| 15° | 1366.1 | 1356.7 | 1343.3 | 1332.9 | 1321.0 | 1307.6 | 1294.8 | 1279.4 | 1264.0 | 1254.6 | 1245.7 |
| 17.5° | 1340.3 | 1328.4 | 1317.5 | 1302.7 | 1290.8 | 1275.4 | 1256.1 | 1239.8 | 1221.4 | 1206.1 | 1189.7 |
| 20° | 1320.5 | 1307.1 | 1294.3 | 1280.9 | 1266.5 | 1249.2 | 1227.9 | 1204.6 | 1181.3 | 1159.5 | 1135.3 |
| 22.5° | 1312.6 | 1291.3 | 1276.9 | 1264.5 | 1249.7 | 1229.9 | 1206.1 | 1177.4 | 1148.6 | 1120.9 | 1092.7 |
| 25° | 1319.5 | 1287.8 | 1265.5 | 1251.7 | 1238.3 | 1218.0 | 1191.2 | 1158.5 | 1124.9 | 1089.7 | 1056.0 |
| 27.5° | 1338.3 | 1298.2 | 1266.5 | 1244.7 | 1229.4 | 1209.6 | 1179.8 | 1145.7 | 1107.5 | 1067.9 | 1031.7 |
| 30° | 1365.6 | 1315.6 | 1275.9 | 1244.7 | 1221.9 | 1199.2 | 1167.0 | 1128.3 | 1088.2 | 1046.6 | 1006.0 |
| 32.5° | 1395.3 | 1334.9 | 1287.3 | 1246.2 | 1211.0 | 1182.3 | 1148.6 | 1111.0 | 1068.4 | 1024.3 | 980.7 |
| 35° | 1417.6 | 1348.7 | 1292.3 | 1240.8 | 1195.7 | 1159.5 | 1123.4 | 1086.7 | 1045.1 | 1000.5 | 956.9 |
| 37.5° | 1427.0 | 1354.2 | 1291.3 | 1229.4 | 1174.4 | 1134.8 | 1097.1 | 1060.5 | 1020.3 | 978.2 | 938.1 |
| 40° | 1427.5 | 1354.2 | 1285.3 | 1214.0 | 1152.1 | 1109.0 | 1069.4 | 1035.2 | 997.6 | 961.4 | 925.7 |
| 42.5° | 1418.1 | 1347.3 | 1274.4 | 1199.7 | 1135.8 | 1087.2 | 1046.6 | 1011.4 | 981.2 | 949.0 | 918.8 |
| 45° | 1401.2 | 1333.4 | 1264.5 | 1191.7 | 1129.8 | 1081.8 | 1038.2 | 1005.0 | 977.8 | 949.0 | 922.8 |
| 47.5° | 1388.4 | 1325.5 | 1265.0 | 1203.1 | 1144.2 | 1094.6 | 1047.6 | 1012.4 | 989.1 | 966.4 | 947.5 |
| 50° | 1390.8 | 1328.4 | 1271.0 | 1212.0 | 1154.1 | 1104.1 | 1058.5 | 1028.3 | 1014.4 | 1007.0 | 1002.5 |
| 52.5° | 1403.7 | 1340.3 | 1296.7 | 1257.6 | 1238.8 | 1208.1 | 1182.8 | 1160.0 | 1163.5 | 1145.7 | 1122.9 |
| 55° | 1536.5 | 1515.2 | 1565.2 | 1601.4 | 1619.2 | 1650.4 | 1695.5 | 1652.4 | 1646.4 | 1591.4 | 1428.0 |
| 57.5° | 2063.0 | 2113.5 | 2190.3 | 2244.8 | 2250.2 | 2240.8 | 2203.7 | 2168.0 | 2110.0 | 2027.3 | 1798.5 |
| 60° | 2946.1 | 2934.2 | 2862.9 | 2767.3 | 2693.0 | 2595.5 | 2497.4 | 2414.7 | 2321.5 | 2194.7 | 1951.0 |
| 62.5° | 3874.8 | 3588.6 | 3334.5 | 3118.0 | 2934.2 | 2771.3 | 2623.2 | 2498.9 | 2371.1 | 2188.8 | 1929.3 |
| 65° | 4624.8 | 4074.0 | 3626.2 | 3278.0 | 3004.6 | 2774.3 | 2583.1 | 2411.7 | 2240.8 | 2029.8 | 1778.2 |
| 67.5° | 5160.7 | 4287.0 | 3611.3 | 3121.5 | 2738.1 | 2421.1 | 2142.7 | 1947.6 | 1772.2 | 1606.3 | 1492.9 |
| 70° | 5203.3 | 3992.2 | 3055.1 | 2455.8 | 2013.5 | 1641.0 | 1352.2 | 1139.2 | 986.7 | 917.8 | 966.9 |
| 72.5° | 4446.4 | 2953.6 | 2031.3 | 1503.3 | 1193.2 | 927.2 | 745.4 | 595.9 | 473.0 | 412.6 | 421.0 |
| 75° | 2618.7 | 1418.1 | 914.8 | 681.6 | 556.7 | 444.8 | 384.9 | 324.9 | 286.8 | 229.8 | 183.8 |
| 77.5° | 997.1 | 616.7 | 461.6 | 383.4 | 273.4 | 196.6 | 155.0 | 133.7 | 122.8 | 121.4 | 114.9 |
| 80° | 574.6 | 452.2 | 316.5 | 207.0 | 151.6 | 128.3 | 110.0 | 94.1 | 87.7 | 86.2 | 88.7 |
| 82.5° | 363.1 | 281.8 | 173.9 | 133.2 | 110.5 | 95.1 | 79.3 | 68.8 | 63.4 | 61.4 | 64.9 |
| 85° | 187.7 | 141.2 | 106.0 | 91.1 | 84.7 | 77.3 | 63.4 | 53.0 | 52.5 | 55.0 | 63.4 |
| 87.5° | 69.3 | 60.4 | 47.6 | 41.1 | 44.1 | 41.1 | 29.7 | 25.8 | 23.3 | 30.7 | 44.6 |
| 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

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 | 1476.0 |
| 2.5° | 1467.1 | 1466.1 | 1466.6 | 1465.6 | 1465.6 | 1467.1 | 1465.1 | 1463.7 | 1466.1 | 1466.1 | 1467.6 |
| 5° | 1444.3 | 1445.3 | 1445.3 | 1444.8 | 1445.8 | 1448.3 | 1447.8 | 1447.8 | 1451.8 | 1453.3 | 1455.2 |
| 7.5° | 1408.2 | 1409.7 | 1410.2 | 1411.6 | 1412.1 | 1415.6 | 1418.1 | 1421.1 | 1427.0 | 1428.5 | 1432.9 |
| 10° | 1359.1 | 1358.2 | 1361.6 | 1361.1 | 1365.6 | 1368.6 | 1370.5 | 1377.0 | 1385.9 | 1390.8 | 1395.3 |
| 12.5° | 1301.2 | 1301.2 | 1303.2 | 1303.7 | 1307.6 | 1311.6 | 1314.1 | 1322.0 | 1329.4 | 1335.9 | 1345.8 |
| 15° | 1239.8 | 1237.8 | 1233.3 | 1232.8 | 1234.3 | 1238.3 | 1243.7 | 1249.7 | 1261.1 | 1270.5 | 1278.9 |
| 17.5° | 1175.4 | 1169.4 | 1164.0 | 1157.1 | 1156.6 | 1156.1 | 1159.0 | 1163.5 | 1181.3 | 1190.7 | 1202.6 |
| 20° | 1118.4 | 1105.5 | 1092.7 | 1078.3 | 1069.9 | 1065.9 | 1067.4 | 1073.3 | 1090.2 | 1102.6 | 1115.0 |
| 22.5° | 1067.4 | 1048.1 | 1027.8 | 1005.0 | 991.1 | 982.7 | 983.7 | 986.2 | 998.6 | 1006.0 | 1012.4 |
| 25° | 1023.8 | 997.1 | 968.8 | 939.6 | 920.3 | 907.4 | 906.9 | 906.9 | 901.5 | 902.5 | 899.0 |
| 27.5° | 994.1 | 956.9 | 920.8 | 886.6 | 861.4 | 848.5 | 831.1 | 818.8 | 807.9 | 793.0 | 786.6 |
| 30° | 965.4 | 927.2 | 886.1 | 848.5 | 818.3 | 793.0 | 760.8 | 734.1 | 712.8 | 692.5 | 675.1 |
| 32.5° | 939.6 | 900.0 | 860.9 | 819.7 | 778.1 | 734.6 | 692.5 | 661.7 | 631.5 | 600.3 | 579.5 |
| 35° | 916.8 | 879.7 | 840.5 | 794.0 | 735.5 | 678.6 | 631.0 | 589.4 | 553.8 | 516.1 | 485.9 |
| 37.5° | 903.9 | 870.3 | 829.7 | 766.3 | 692.9 | 628.1 | 575.1 | 528.5 | 481.0 | 435.9 | 398.7 |
| 40° | 897.5 | 867.8 | 818.3 | 738.0 | 654.8 | 585.5 | 526.5 | 470.5 | 414.6 | 361.6 | 322.9 |
| 42.5° | 896.5 | 867.8 | 801.4 | 709.3 | 622.1 | 547.8 | 481.9 | 414.6 | 346.7 | 295.2 | 261.0 |
| 45° | 905.4 | 866.8 | 783.6 | 683.5 | 592.9 | 514.1 | 434.9 | 355.6 | 285.8 | 240.7 | 221.9 |
| 47.5° | 931.2 | 870.3 | 769.7 | 661.7 | 565.2 | 477.0 | 381.4 | 290.3 | 230.8 | 210.5 | 210.0 |
| 50° | 972.8 | 886.1 | 766.7 | 645.9 | 537.9 | 430.4 | 318.5 | 232.3 | 203.6 | 202.6 | 208.0 |
| 52.5° | 1038.7 | 915.8 | 774.2 | 635.0 | 505.2 | 370.0 | 252.1 | 200.6 | 195.2 | 200.6 | 207.5 |
| 55° | 1183.8 | 968.8 | 784.1 | 615.7 | 452.2 | 293.2 | 207.5 | 190.2 | 192.7 | 199.1 | 205.6 |
| 57.5° | 1447.8 | 1078.8 | 794.5 | 572.1 | 366.5 | 225.4 | 186.7 | 186.2 | 190.7 | 196.1 | 202.1 |
| 60° | 1615.2 | 1214.5 | 819.7 | 507.7 | 276.9 | 186.2 | 178.8 | 183.8 | 189.2 | 193.2 | 198.1 |
| 62.5° | 1620.7 | 1250.2 | 833.1 | 438.8 | 206.1 | 170.4 | 171.9 | 181.3 | 187.7 | 189.2 | 191.7 |
| 65° | 1516.2 | 1182.8 | 772.7 | 357.1 | 170.9 | 161.5 | 166.9 | 175.3 | 181.8 | 182.8 | 184.8 |
| 67.5° | 1324.5 | 1043.1 | 654.8 | 269.5 | 155.5 | 154.5 | 160.5 | 166.9 | 171.4 | 175.3 | 178.3 |
| 70° | 997.6 | 860.9 | 526.5 | 209.0 | 146.1 | 145.1 | 151.1 | 156.5 | 160.5 | 165.4 | 170.4 |
| 72.5° | 505.7 | 595.9 | 399.2 | 170.9 | 133.2 | 134.2 | 140.7 | 145.6 | 148.6 | 153.1 | 158.0 |
| 75° | 172.4 | 260.0 | 252.6 | 138.2 | 118.9 | 122.8 | 125.8 | 131.3 | 135.7 | 138.7 | 141.2 |
| 77.5° | 108.0 | 112.9 | 130.3 | 111.4 | 105.0 | 106.0 | 111.0 | 115.9 | 120.9 | 122.8 | 123.8 |
| 80° | 90.1 | 90.6 | 91.1 | 89.2 | 89.7 | 92.6 | 95.6 | 101.0 | 106.0 | 107.0 | 107.5 |
| 82.5° | 71.3 | 76.3 | 75.8 | 75.3 | 77.8 | 80.7 | 82.7 | 84.7 | 86.7 | 87.7 | 89.2 |
| 85° | 62.9 | 61.9 | 62.4 | 63.9 | 61.9 | 59.9 | 59.4 | 59.4 | 62.4 | 65.9 | 67.4 |
| 87.5° | 57.5 | 49.0 | 36.7 | 34.7 | 34.7 | 33.7 | 31.7 | 31.7 | 34.7 | 37.6 | 39.1 |
| 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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| 45° | 217.9 | 218.4 | 220.4 | 222.4 | 222.9 |
| 47.5° | 213.5 | 216.5 | 219.9 | 222.4 | 222.9 |
| 50° | 213.0 | 216.0 | 218.4 | 221.4 | 222.4 |
| 52.5° | 212.5 | 214.5 | 216.0 | 217.4 | 218.9 |
| 55° | 210.5 | 211.5 | 211.0 | 212.0 | 213.5 |
| 57.5° | 205.6 | 206.1 | 205.1 | 205.6 | 208.5 |
| 60° | 201.1 | 201.6 | 199.6 | 202.1 | 202.6 |
| 62.5° | 195.6 | 195.2 | 194.2 | 195.6 | 195.6 |
| 65° | 187.7 | 184.8 | 185.7 | 187.2 | 187.7 |
| 67.5° | 178.3 | 175.3 | 175.3 | 176.3 | 177.8 |
| 70° | 166.4 | 164.9 | 164.9 | 166.9 | 168.9 |
| 72.5° | 153.1 | 154.0 | 157.0 | 160.0 | 163.0 |
| 75° | 142.2 | 144.6 | 147.6 | 155.0 | 159.5 |
| 77.5° | 128.3 | 128.8 | 131.3 | 138.7 | 146.6 |
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