

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: P144846

Luminaire Tested: **LDRL-SL2-F03-E-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P144846  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33701)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: LDRL-SL2-F03-E-7050  
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL  
Light Source: (21) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7440.7 lumens  
Efficiency: N/A  
Efficacy: 95.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

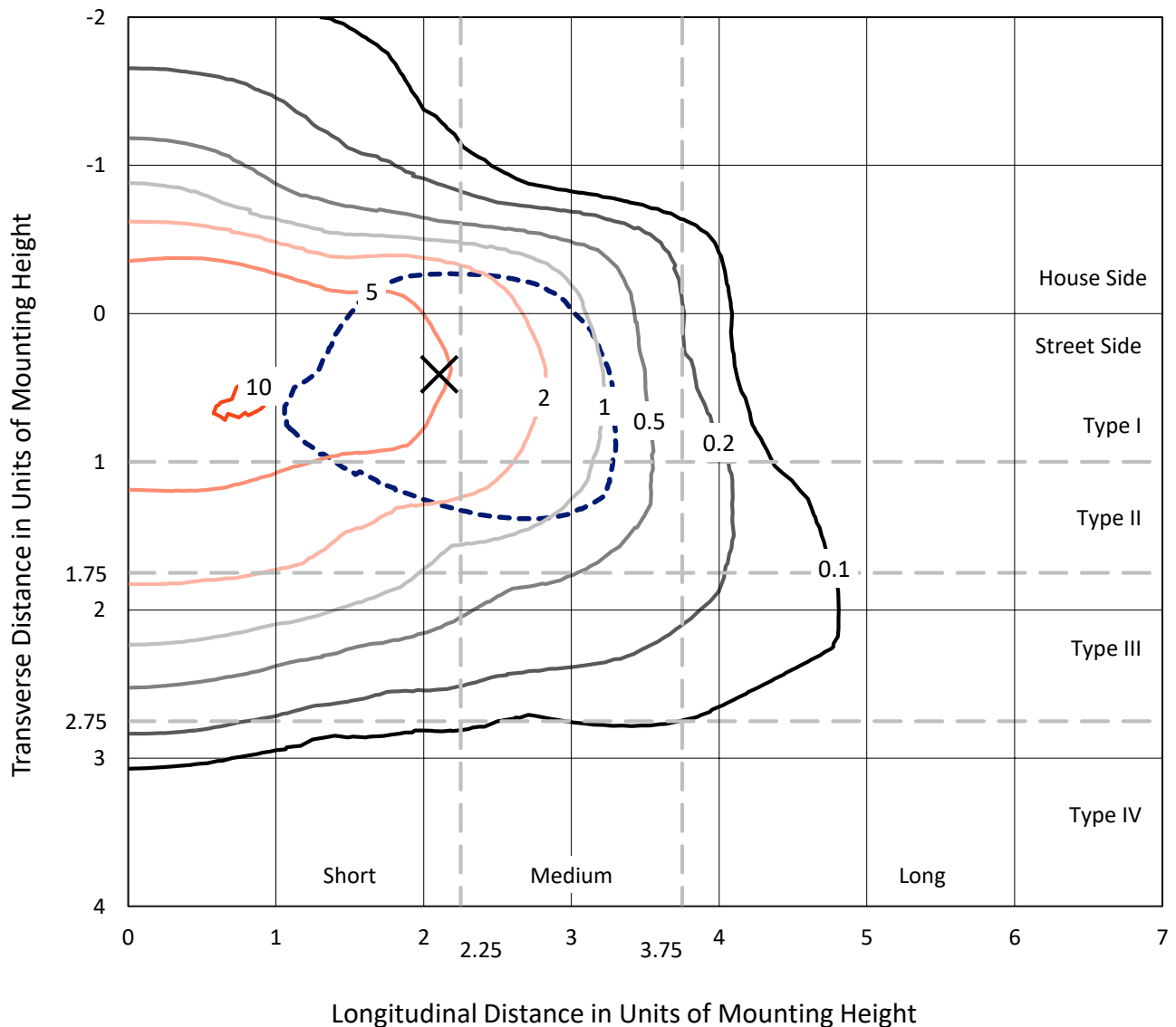
Input Watts (W): 78.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P144846  
 CATALOG NUMBER: LDRL-SL2-F03-E-7050

### Iso-Footcandle Lines of Horizontal Illumination

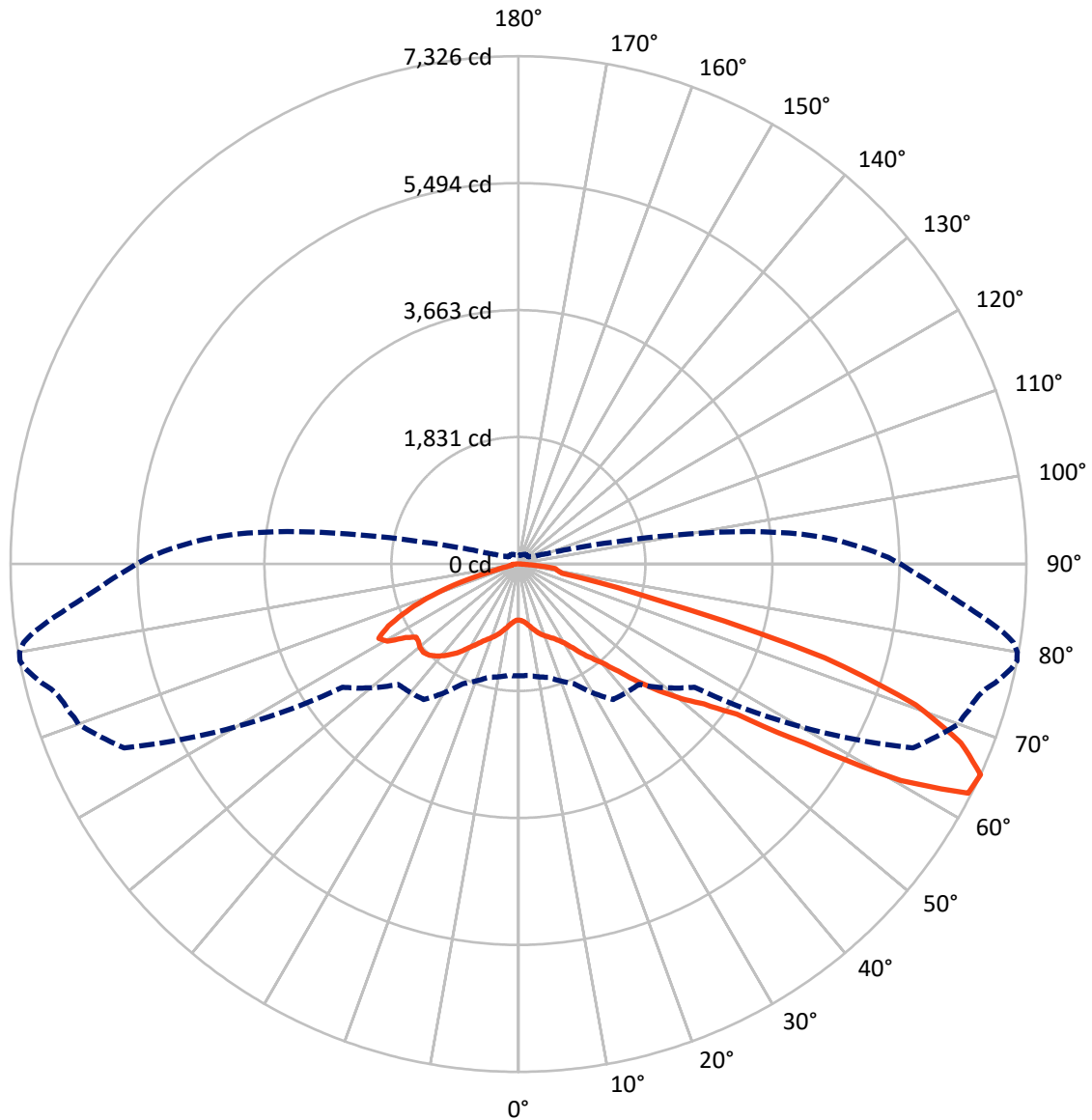
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.4 fc  
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P144846  
CATALOG NUMBER: LDRL-SL2-F03-E-7050

### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P144846

CATALOG NUMBER: LDRL-SL2-F03-E-7050

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1688.9	0.0	1688.9
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	5751.7	0.0	5751.7
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	7440.7	0.0	7440.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.3	1.1
10°-20°	261.3	3.5
20°-30°	450.4	6.1
30°-40°	734.5	9.9
40°-50°	1226.3	16.5
50°-60°	1658.1	22.3
60°-70°	2059.9	27.7
70°-80°	824.9	11.1
80°-90°	144.9	1.9
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°	7440.7	100.0
0°-180°	7440.7	100.0



REPORT NUMBER: P144846

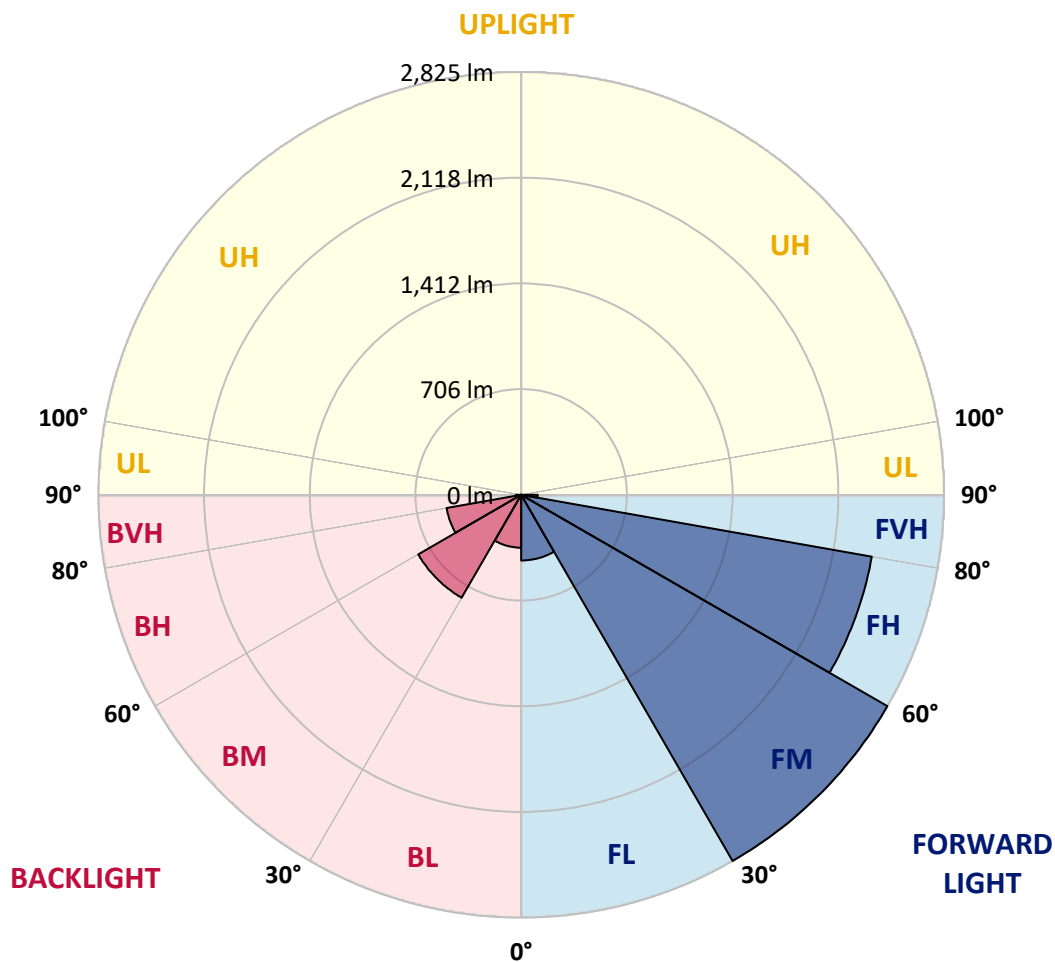
CATALOG NUMBER: LDRL-SL2-F03-E-7050

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	438.8	5.9			
FM	(30°-60°)	2824.6	38.0			
FH	(60°-80°)	2378.5	32.0			G2/5000
FVH	(80°-90°)	109.9	1.5			G2/225
BL	(0°-30°)	353.2	4.7	B1/500		
BM	(30°-60°)	794.4	10.7	B1/1000		
BH	(60°-80°)	506.3	6.8	B2/1000		G2/1000
BVH	(80°-90°)	35.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





REPORT NUMBER: P144846

CATALOG NUMBER: LDRL-SL2-F03-E-7050

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6
2.5°	814.7	814.2	816.8	818.8	818.8	819.8	819.3	816.2	816.8	817.8	816.8
5°	823.9	821.8	824.4	827.4	829.5	832.0	834.5	835.0	837.1	837.1	836.6
7.5°	843.7	842.2	845.7	846.7	851.3	855.4	860.5	864.0	866.1	867.1	868.6
10°	877.7	876.7	877.7	879.8	881.8	886.4	895.0	902.6	907.2	907.2	909.3
12.5°	918.9	914.8	915.9	911.8	912.8	922.5	932.6	945.3	953.0	954.0	955.0
15°	950.9	948.9	947.4	941.8	945.8	958.6	974.3	992.6	999.2	1004.8	1004.3
17.5°	980.9	978.4	974.8	967.2	971.3	991.6	1015.5	1035.8	1047.0	1048.0	1049.0
20°	1016.5	1013.4	1006.8	991.1	990.1	1018.5	1050.5	1072.4	1082.6	1087.1	1088.7
22.5°	1061.7	1057.7	1045.5	1015.0	1006.8	1040.4	1078.5	1105.4	1116.1	1120.7	1123.2
25°	1119.7	1111.5	1092.2	1044.4	1027.7	1062.7	1108.5	1141.0	1155.7	1160.3	1163.4
27.5°	1172.0	1165.9	1142.5	1086.1	1057.2	1092.7	1145.1	1186.8	1207.1	1212.7	1217.2
30°	1233.0	1224.4	1205.6	1145.6	1107.0	1138.5	1205.0	1257.9	1282.8	1283.3	1293.5
32.5°	1376.3	1370.7	1353.5	1287.4	1222.3	1224.4	1286.4	1359.0	1384.0	1388.0	1397.2
35°	1588.8	1586.7	1586.2	1549.6	1501.4	1451.5	1456.1	1511.5	1528.3	1534.9	1538.0
37.5°	1728.5	1746.3	1789.5	1816.0	1803.8	1814.4	1758.5	1690.9	1681.3	1674.2	1677.2
40°	1849.0	1864.8	1952.2	2074.1	2148.4	2200.7	2151.4	1944.0	1866.8	1844.4	1835.8
42.5°	1920.2	1937.9	2063.0	2258.1	2447.2	2571.2	2584.4	2296.3	2100.1	2097.5	2065.0
45°	1958.8	1976.6	2126.0	2388.8	2656.1	2879.7	2995.6	2729.8	2441.6	2420.3	2375.0
47.5°	1951.2	1967.9	2123.4	2437.0	2779.6	3084.5	3316.3	3167.9	2835.5	2784.2	2721.7
50°	1858.1	1870.3	2033.5	2358.3	2746.6	3169.9	3535.9	3569.9	3281.2	3211.6	3118.1
52.5°	1762.1	1783.9	1919.1	2218.5	2596.6	3117.1	3667.0	3935.9	3697.5	3649.7	3529.8
55°	1710.2	1727.5	1837.8	2093.5	2438.6	2936.6	3721.4	4281.0	4203.2	4183.9	4099.0
57.5°	1708.2	1725.0	1812.9	2017.7	2310.0	2748.6	3737.1	4814.1	5042.3	5047.4	5023.0
60°	1791.6	1808.8	1882.5	2054.3	2270.3	2587.5	3680.7	5570.4	6074.5	6119.3	6194.0
62.5°	1803.3	1811.4	1900.3	2132.1	2414.7	2467.0	3448.4	6200.1	6784.1	6825.2	6866.4
65°	1613.2	1612.7	1691.4	1904.9	2384.7	2454.8	3099.3	6277.3	6755.6	6780.5	6831.8
67.5°	1203.0	1192.9	1237.6	1432.7	1892.2	2457.9	2685.6	5694.4	6229.1	6276.3	6293.6
70°	620.1	635.8	666.3	785.7	1201.5	1978.6	2306.9	4804.4	5468.2	5486.0	5547.5
72.5°	254.6	248.0	268.9	330.4	601.3	1307.7	1908.5	3791.5	4516.3	4504.1	4515.3
75°	141.8	143.8	149.9	172.3	292.2	656.7	1639.6	2684.0	3071.3	2860.9	2797.4
77.5°	113.8	114.9	115.4	119.4	159.6	350.2	1258.4	1767.7	1544.6	1434.3	1392.1
80°	83.4	88.9	95.0	96.1	109.8	198.7	690.2	1488.1	1303.6	1212.2	1136.9
82.5°	67.1	69.6	82.8	84.9	87.4	118.4	312.6	1397.7	1298.6	1205.0	1101.4
85°	40.2	44.7	67.6	68.1	69.1	72.2	172.8	569.2	708.0	625.7	572.8
87.5°	14.2	18.3	33.5	28.0	35.6	29.5	75.7	190.6	234.8	223.1	197.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P144846

CATALOG NUMBER: LDRL-SL2-F03-E-7050

**CANDELA DISTRIBUTION (continued):**

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6
2.5°	816.2	816.2	817.3	816.8	816.8	816.8	816.8	815.7	815.7	814.2	815.2
5°	836.6	836.1	836.6	837.1	836.6	837.6	837.6	836.6	837.1	836.6	837.1
7.5°	869.1	866.6	870.1	868.1	867.6	870.6	870.6	870.6	871.1	870.6	870.1
10°	910.3	911.8	911.8	911.8	910.8	913.8	914.3	915.3	915.9	917.9	917.9
12.5°	957.5	958.0	960.1	959.6	960.6	964.1	966.7	967.2	967.7	969.2	967.2
15°	1008.4	1009.4	1009.4	1013.9	1012.4	1017.5	1019.0	1019.0	1019.5	1025.6	1026.1
17.5°	1053.6	1053.6	1057.7	1057.7	1061.7	1062.7	1067.3	1067.8	1069.9	1075.4	1076.0
20°	1091.7	1093.7	1096.3	1099.3	1100.9	1103.9	1107.0	1110.0	1112.5	1117.1	1117.6
22.5°	1127.8	1129.8	1133.9	1135.9	1139.5	1141.5	1144.1	1147.6	1151.7	1157.8	1159.3
25°	1169.5	1171.5	1176.1	1179.1	1183.2	1186.2	1190.8	1195.4	1197.9	1204.0	1208.6
27.5°	1222.3	1228.4	1234.5	1236.1	1239.1	1246.2	1252.3	1258.4	1264.0	1267.1	1272.6
30°	1299.6	1299.6	1312.3	1312.3	1317.9	1324.5	1328.6	1335.2	1345.3	1348.4	1355.5
32.5°	1403.3	1405.8	1410.4	1424.1	1434.3	1437.3	1440.4	1450.0	1456.1	1463.7	1472.4
35°	1551.2	1553.7	1556.2	1569.5	1581.2	1584.2	1587.3	1593.3	1603.5	1616.7	1612.7
37.5°	1683.8	1685.3	1693.5	1708.2	1714.8	1723.0	1725.5	1736.7	1742.3	1754.5	1755.0
40°	1843.4	1839.8	1844.4	1861.2	1871.4	1870.9	1879.0	1899.3	1903.4	1909.0	1923.2
42.5°	2066.0	2052.8	2067.0	2072.6	2087.9	2097.5	2113.8	2127.5	2137.2	2158.5	2168.7
45°	2353.7	2340.0	2351.7	2354.2	2385.7	2395.4	2419.8	2438.1	2458.9	2483.3	2490.4
47.5°	2681.5	2656.1	2641.9	2657.6	2695.2	2711.0	2734.9	2752.1	2774.0	2786.7	2782.6
50°	3061.2	3000.2	2971.7	2963.6	2990.5	3012.9	3050.0	3058.1	3068.3	3067.8	3068.3
52.5°	3484.5	3421.0	3361.5	3320.4	3316.3	3346.3	3355.4	3357.5	3354.4	3331.5	3317.3
55°	4037.5	4032.9	3970.4	3885.0	3879.4	3875.9	3822.5	3815.9	3803.7	3768.6	3720.4
57.5°	5040.8	5091.6	5050.4	5048.4	5003.7	4974.2	4876.1	4827.3	4776.0	4680.9	4605.2
60°	6200.6	6274.3	6314.9	6332.7	6420.2	6420.2	6339.9	6270.7	6187.4	6042.5	5901.2
62.5°	6898.9	6963.5	7023.4	7117.5	7228.8	7278.1	7282.1	7220.6	7115.4	6950.3	6750.5
65°	6854.7	6902.5	6975.2	7086.0	7177.9	7266.4	7325.8	7307.0	7226.7	7061.6	6844.0
67.5°	6354.1	6423.7	6517.7	6619.9	6705.3	6788.6	6884.7	6891.8	6870.5	6713.4	6516.7
70°	5581.6	5671.0	5730.5	5859.1	5897.7	5982.0	6078.6	6124.9	6090.3	5969.3	5854.0
72.5°	4534.6	4605.2	4615.4	4559.5	4578.8	4599.6	4623.0	4514.7	4473.1	4311.4	4237.2
75°	2749.6	2656.6	2578.3	2500.6	2268.3	2186.0	2059.4	1809.9	1781.4	1610.1	1491.2
77.5°	1307.7	1268.6	1197.9	1079.5	922.0	771.0	639.9	519.9	475.2	391.3	333.4
80°	1094.8	1048.0	984.5	896.5	786.3	676.5	572.8	483.8	394.4	321.2	256.7
82.5°	1004.3	923.0	833.5	757.8	680.0	605.3	535.7	455.4	408.1	329.3	268.9
85°	507.7	444.7	360.3	303.4	256.2	208.4	180.4	154.0	137.2	109.3	95.0
87.5°	170.3	139.3	103.7	87.9	79.3	68.1	62.5	59.5	57.9	51.3	45.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





REPORT NUMBER: P144846

CATALOG NUMBER: LDRL-SL2-F03-E-7050

**CANDELA DISTRIBUTION (continued):**

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6
2.5°	815.2	815.2	815.2	815.2	814.7	814.7	814.7	814.7	814.7	814.7	815.2
5°	836.1	836.1	836.6	838.1	835.0	836.1	837.1	835.6	837.1	835.6	837.6
7.5°	869.6	871.1	870.1	872.1	871.1	874.2	872.1	870.6	871.6	871.6	872.1
10°	916.9	918.9	917.4	918.4	918.4	920.4	917.9	918.4	918.9	917.9	918.4
12.5°	969.2	970.2	969.7	972.8	971.3	972.8	971.3	973.3	974.3	975.3	975.3
15°	1026.1	1027.2	1030.2	1029.7	1032.8	1031.7	1032.2	1029.7	1034.8	1031.7	1032.8
17.5°	1078.5	1078.0	1082.1	1083.6	1084.1	1084.6	1086.1	1084.1	1084.6	1086.1	1085.1
20°	1119.2	1122.7	1123.7	1127.8	1130.8	1131.9	1131.4	1132.9	1134.9	1132.9	1132.9
22.5°	1162.4	1167.4	1169.0	1171.5	1174.6	1175.1	1178.1	1179.6	1180.7	1180.1	1180.7
25°	1214.2	1217.8	1221.3	1226.4	1230.0	1230.5	1233.0	1235.0	1235.5	1235.0	1238.1
27.5°	1277.7	1282.3	1286.9	1293.0	1297.0	1298.1	1303.6	1303.6	1306.7	1308.2	1309.2
30°	1359.6	1361.1	1372.8	1378.9	1377.3	1384.5	1392.1	1391.6	1395.1	1396.2	1398.7
32.5°	1478.5	1478.5	1488.7	1496.3	1504.4	1501.9	1513.6	1511.5	1517.1	1520.2	1518.6
35°	1622.8	1627.9	1635.5	1640.1	1648.7	1653.3	1661.5	1666.0	1668.6	1668.1	1662.5
37.5°	1771.7	1779.9	1782.9	1794.1	1802.7	1810.4	1811.4	1806.3	1808.3	1798.2	1795.1
40°	1942.0	1953.7	1960.8	1977.6	1976.6	1986.2	1987.2	1972.5	1970.0	1956.7	1943.0
42.5°	2179.9	2196.1	2201.7	2214.4	2204.3	2208.8	2183.4	2177.3	2157.0	2135.6	2104.6
45°	2500.6	2492.4	2496.0	2492.4	2465.5	2445.7	2424.8	2394.9	2364.9	2323.7	2279.5
47.5°	2782.6	2786.7	2760.3	2743.5	2699.8	2671.8	2633.7	2581.4	2544.8	2489.4	2430.9
50°	3056.6	3011.4	2974.3	2935.6	2897.0	2845.7	2788.2	2742.0	2688.6	2619.5	2547.8
52.5°	3279.2	3220.8	3176.0	3121.1	3068.8	3011.9	2951.9	2884.8	2814.7	2745.5	2657.1
55°	3673.6	3588.7	3531.3	3435.2	3375.8	3296.0	3249.2	3162.3	3064.7	2973.2	2879.2
57.5°	4519.8	4392.8	4327.2	4272.8	4180.3	4049.2	3965.8	3823.0	3683.8	3586.2	3429.6
60°	5794.5	5665.4	5556.6	5428.1	5286.3	5108.4	5029.1	4860.9	4661.6	4500.5	4293.7
62.5°	6588.9	6410.5	6234.1	6053.7	5911.4	5772.1	5608.0	5438.2	5241.0	5022.0	4795.8
65°	6620.9	6406.9	6196.0	6012.0	5845.3	5664.4	5510.4	5338.1	5130.7	4905.1	4670.3
67.5°	6288.5	6049.1	5823.0	5621.2	5430.6	5262.9	5101.8	4939.6	4717.5	4528.5	4288.1
70°	5626.3	5407.7	5202.9	4973.2	4827.3	4638.8	4481.7	4310.9	4151.9	3975.0	3749.8
72.5°	4132.5	3967.9	3734.1	3636.5	3558.2	3358.5	3241.6	3227.4	3125.7	2913.8	2745.5
75°	1536.9	1308.2	1239.1	1280.3	1211.7	1234.5	1225.9	1177.1	1179.1	1143.0	1100.4
77.5°	300.9	279.5	262.8	267.3	248.5	240.4	257.7	252.6	243.4	246.0	241.9
80°	204.8	173.3	157.0	150.9	143.3	139.8	138.8	137.2	134.2	132.7	128.1
82.5°	201.8	149.9	118.4	101.6	95.6	92.5	90.0	89.5	88.4	87.9	89.5
85°	80.3	65.1	59.5	54.4	52.9	51.3	51.3	50.8	50.3	51.3	53.4
87.5°	39.1	33.0	30.0	27.4	26.4	25.9	25.9	26.4	26.9	29.0	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



REPORT NUMBER: P144846

CATALOG NUMBER: LDRL-SL2-F03-E-7050

**CANDELA DISTRIBUTION (continued):**

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6
2.5°	814.2	814.7	813.7	814.2	813.7	812.7	812.2	813.7	813.2	812.7	812.7
5°	835.0	837.1	836.1	835.0	835.0	834.5	834.5	834.5	834.0	834.5	833.0
7.5°	871.1	870.6	870.6	869.6	868.6	869.6	869.1	867.6	868.1	867.1	865.5
10°	917.4	915.9	918.4	918.4	916.4	915.9	914.8	913.3	913.3	911.8	911.8
12.5°	972.3	970.7	974.3	971.8	968.7	968.2	965.2	964.1	965.7	965.2	964.1
15°	1028.2	1028.7	1030.2	1029.7	1026.1	1026.1	1022.1	1022.6	1019.5	1018.5	1016.0
17.5°	1082.6	1083.1	1081.5	1081.5	1079.0	1077.5	1072.9	1073.4	1071.4	1067.3	1064.3
20°	1131.4	1130.8	1127.3	1130.3	1125.3	1124.2	1120.2	1116.1	1117.1	1113.1	1107.0
22.5°	1179.1	1178.1	1177.1	1175.6	1173.0	1172.0	1167.4	1166.9	1161.8	1155.7	1150.7
25°	1234.5	1234.0	1232.5	1233.0	1227.9	1228.4	1220.3	1218.3	1215.2	1208.6	1204.5
27.5°	1306.2	1306.2	1302.1	1300.6	1299.1	1297.0	1289.9	1284.8	1277.2	1269.6	1261.5
30°	1394.1	1393.1	1392.1	1388.0	1382.4	1379.4	1366.7	1358.5	1348.4	1334.1	1321.9
32.5°	1519.7	1511.0	1503.9	1494.7	1485.6	1475.9	1456.1	1442.4	1426.1	1403.3	1384.0
35°	1659.4	1644.7	1637.1	1618.3	1601.0	1581.7	1557.8	1529.8	1507.5	1477.5	1446.0
37.5°	1774.8	1763.6	1743.3	1721.9	1697.5	1660.9	1634.0	1604.0	1564.9	1531.9	1493.7
40°	1917.1	1891.7	1862.7	1827.1	1793.6	1752.4	1715.3	1672.1	1624.4	1576.6	1526.8
42.5°	2066.5	2027.4	1979.6	1938.4	1887.6	1833.7	1785.5	1727.0	1666.0	1602.0	1535.4
45°	2219.0	2170.7	2107.2	2048.7	1978.1	1910.5	1841.4	1761.6	1678.2	1592.8	1509.0
47.5°	2358.8	2288.1	2215.9	2137.2	2055.9	1968.9	1870.9	1766.2	1656.4	1544.0	1439.4
50°	2468.5	2380.1	2289.1	2198.2	2098.5	1985.7	1862.2	1725.5	1590.3	1455.6	1335.2
52.5°	2565.6	2466.5	2354.7	2241.9	2118.9	1980.1	1825.6	1664.5	1499.8	1350.9	1215.7
55°	2753.7	2629.2	2481.8	2336.4	2180.9	2006.0	1813.4	1616.2	1426.6	1264.5	1120.7
57.5°	3264.5	3096.2	2868.0	2666.3	2469.1	2214.4	1943.0	1700.1	1458.7	1267.1	1107.0
60°	4069.0	3795.1	3533.8	3226.3	2907.2	2558.0	2194.1	1866.8	1572.5	1332.1	1139.5
62.5°	4535.6	4246.4	3910.4	3537.9	3124.2	2698.8	2281.0	1898.8	1576.1	1314.3	1100.9
65°	4409.5	4118.8	3749.3	3368.1	2928.0	2492.9	2078.2	1711.3	1398.2	1156.3	951.9
67.5°	4035.5	3731.5	3384.4	2961.5	2540.7	2137.7	1759.5	1413.9	1136.9	911.3	730.9
70°	3491.1	3220.8	2886.3	2496.5	2088.4	1726.0	1407.3	1095.8	861.5	654.6	512.3
72.5°	2591.0	2351.7	2142.8	1817.0	1518.1	1234.0	974.3	762.4	560.6	423.9	326.3
75°	1087.6	1006.8	972.8	853.3	742.0	608.4	457.9	364.9	295.8	251.6	199.7
77.5°	263.8	263.8	248.0	232.3	213.5	193.1	170.8	152.5	143.3	135.2	128.6
80°	128.1	127.1	123.0	122.5	118.9	114.4	111.8	108.3	106.7	104.7	103.7
82.5°	90.0	89.5	87.9	90.0	89.5	91.5	92.5	93.0	93.0	93.5	94.0
85°	56.9	59.0	63.0	68.1	72.7	78.3	83.4	87.4	90.5	93.0	95.0
87.5°	36.1	41.2	44.2	51.8	59.5	68.1	77.8	81.8	85.4	85.9	82.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P144846

CATALOG NUMBER: LDRL-SL2-F03-E-7050

**CANDELA DISTRIBUTION (continued):**

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6	808.6
2.5°	812.7	812.2	813.2	812.2	812.2	811.7	810.1	808.6	807.1	806.6	805.1
5°	832.5	832.5	833.5	831.5	832.0	830.0	825.4	820.3	815.7	811.7	807.1
7.5°	866.1	864.5	865.0	864.5	863.5	859.4	849.3	836.6	824.4	811.7	801.5
10°	910.8	907.7	907.7	906.7	905.2	899.6	878.2	852.8	827.4	804.6	787.8
12.5°	960.6	961.1	957.0	954.5	951.9	940.3	908.2	867.6	827.4	790.8	763.9
15°	1012.4	1011.9	1007.3	1005.8	1000.2	982.9	934.7	875.2	817.8	763.9	723.7
17.5°	1059.2	1057.2	1052.6	1049.5	1043.4	1020.6	952.5	871.6	792.4	721.7	671.4
20°	1101.9	1099.3	1095.3	1089.7	1083.6	1050.5	959.1	853.3	752.2	671.4	620.6
22.5°	1146.1	1140.5	1135.9	1128.3	1121.7	1077.5	954.5	820.8	706.5	615.5	561.1
25°	1195.4	1188.8	1179.1	1170.0	1159.8	1099.3	941.8	780.2	651.6	555.0	500.1
27.5°	1248.8	1239.1	1226.4	1214.7	1198.4	1115.6	919.9	734.9	591.6	495.0	438.1
30°	1305.2	1287.4	1271.6	1253.8	1233.0	1123.2	888.4	679.0	525.5	434.0	377.1
32.5°	1360.1	1336.2	1312.8	1286.9	1258.4	1120.2	843.7	612.9	459.5	377.1	329.3
35°	1416.0	1381.4	1348.9	1313.8	1279.3	1104.9	782.2	539.8	396.9	329.9	295.3
37.5°	1454.1	1410.9	1367.7	1325.5	1283.8	1071.9	700.4	457.9	340.5	295.8	270.9
40°	1473.4	1420.5	1367.7	1315.3	1264.0	1017.0	604.8	383.2	300.4	270.4	252.6
42.5°	1467.8	1402.2	1336.7	1274.7	1211.7	929.6	501.1	321.7	272.4	250.6	234.8
45°	1421.6	1343.3	1268.6	1203.0	1124.2	817.3	411.7	283.6	251.1	234.3	219.6
47.5°	1334.7	1247.2	1155.7	1081.5	1007.9	687.1	342.6	259.7	232.3	218.5	203.8
50°	1223.9	1122.7	1031.2	950.9	878.8	565.7	295.3	239.4	217.0	205.3	189.6
52.5°	1101.9	993.1	909.8	825.4	754.7	472.2	262.3	217.0	202.3	190.1	177.4
55°	1000.7	900.1	815.2	730.3	659.2	413.2	234.8	199.7	188.6	175.9	165.7
57.5°	973.8	858.9	766.4	686.1	612.9	377.1	215.0	184.0	176.4	166.7	155.5
60°	985.0	858.4	754.7	666.8	590.1	348.1	200.2	173.3	167.2	158.6	146.9
62.5°	944.8	811.2	706.5	612.9	540.3	311.6	189.6	168.2	164.2	152.5	139.3
65°	805.1	682.6	581.9	501.1	438.6	262.3	180.9	172.8	168.7	148.4	134.2
67.5°	612.9	510.8	430.0	369.5	324.3	217.0	178.9	188.1	179.9	150.4	132.7
70°	423.9	346.6	294.8	258.2	229.7	183.0	185.5	204.8	193.1	157.0	141.3
72.5°	268.9	224.6	199.2	185.5	171.8	154.5	184.0	202.8	187.0	158.1	141.3
75°	172.3	154.0	145.4	140.3	136.2	134.7	162.1	166.7	150.4	137.2	131.6
77.5°	122.0	118.9	117.4	116.9	117.4	121.0	134.2	125.5	109.3	109.8	112.8
80°	103.2	103.2	102.2	102.7	103.7	105.2	107.2	92.5	83.9	90.5	100.6
82.5°	94.5	96.1	97.1	98.1	99.6	97.6	91.0	70.1	67.6	87.9	98.6
85°	96.1	96.1	96.6	97.6	98.1	87.9	75.7	52.9	51.8	98.6	93.0
87.5°	82.3	81.3	77.8	75.2	71.7	60.5	50.3	29.5	30.5	61.0	65.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P144846

CATALOG NUMBER: LDRL-SL2-F03-E-7050

**CANDELA DISTRIBUTION (continued):**

	175°	180°
0°	808.6	808.6
2.5°	804.6	804.6
5°	804.6	804.6
7.5°	797.9	795.9
10°	778.6	776.1
12.5°	749.2	746.6
15°	703.9	700.9
17.5°	647.5	642.4
20°	588.5	581.4
22.5°	529.6	524.0
25°	469.1	464.0
27.5°	409.6	404.6
30°	354.8	352.7
32.5°	314.1	312.1
35°	284.1	283.1
37.5°	263.8	262.8
40°	246.0	245.0
42.5°	229.7	228.2
45°	213.5	214.0
47.5°	197.2	196.7
50°	183.0	183.0
52.5°	171.3	170.8
55°	160.6	160.1
57.5°	149.9	149.4
60°	140.8	139.3
62.5°	132.1	131.1
65°	126.6	126.0
67.5°	122.5	121.0
70°	121.5	117.4
72.5°	118.4	113.3
75°	111.3	108.8
77.5°	98.1	95.0
80°	75.7	70.1
82.5°	63.5	54.9
85°	46.8	43.2
87.5°	34.1	26.9
90°	0.0	0.0

(END OF REPORT)