

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: P146338

Luminaire Tested: **LDRL-T2-E03-E-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146338
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33694)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRL-T2-E03-E-8030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7592.3 lumens
Efficiency: N/A
Efficacy: 101.0 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

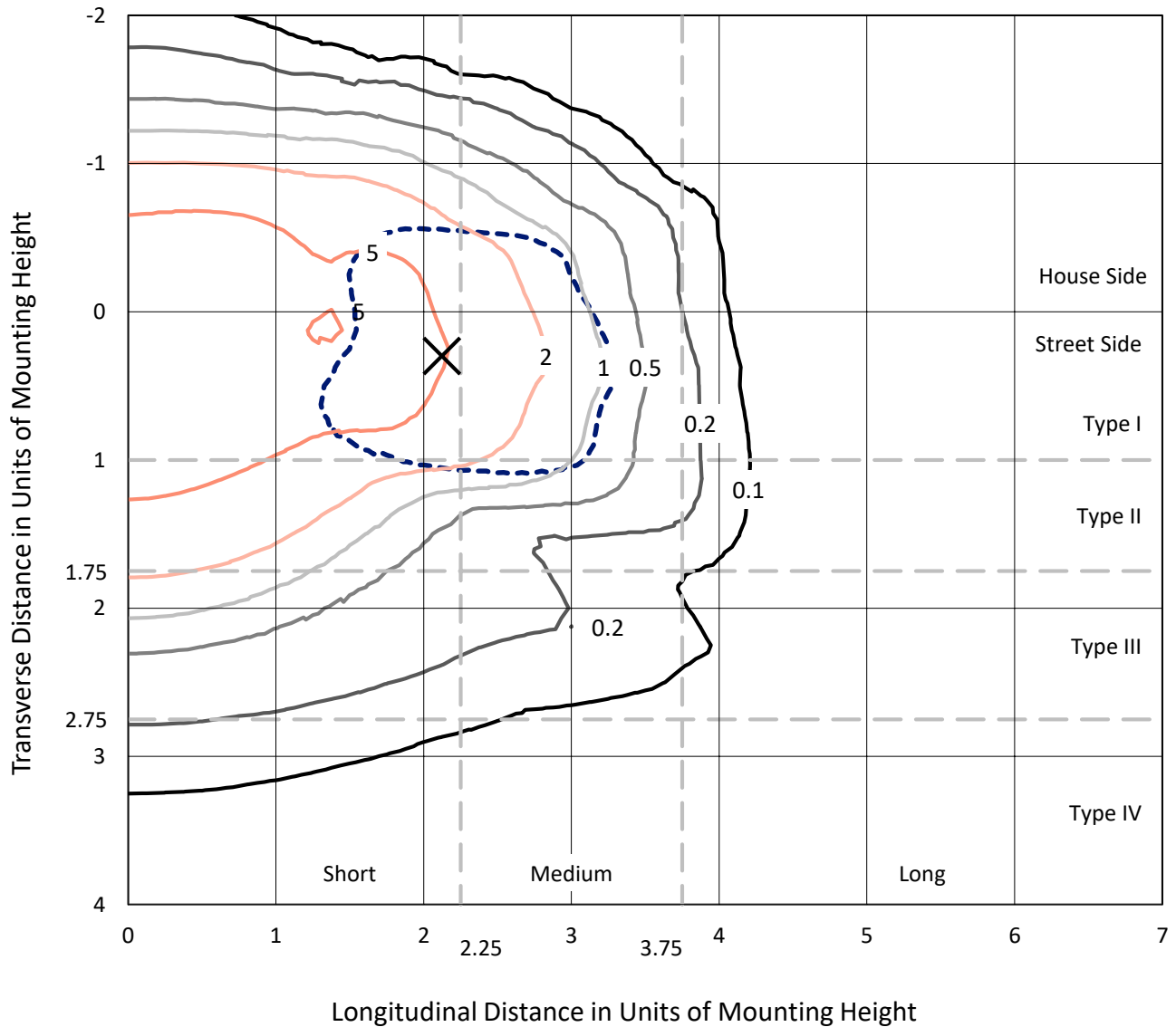
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P146338
 CATALOG NUMBER: LDRL-T2-E03-E-8030

Iso-Footcandle Lines of Horizontal Illumination

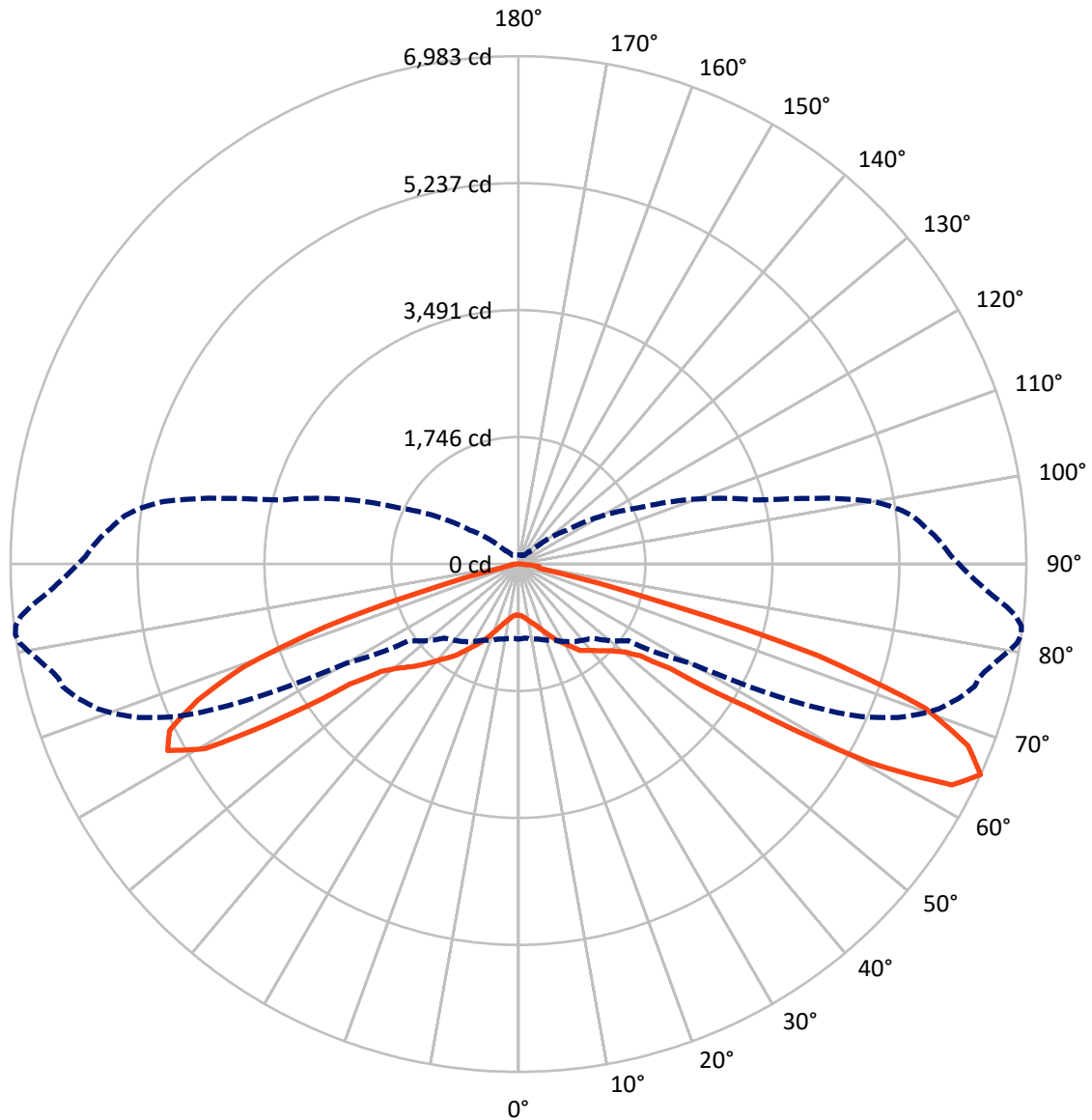
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P146338
CATALOG NUMBER: LDRL-T2-E03-E-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P146338

CATALOG NUMBER: LDRL-T2-E03-E-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2794.8	0.0	2794.8
	% Fixture	36.8	0.0	36.8
Street Side	Lumens	4797.5	0.0	4797.5
	% Fixture	63.2	0.0	63.2
Total	Lumens	7592.3	0.0	7592.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.4	0.9
10°-20°	251.4	3.3
20°-30°	498.7	6.6
30°-40°	850.9	11.2
40°-50°	1276.0	16.8
50°-60°	1776.1	23.4
60°-70°	2040.5	26.9
70°-80°	704.1	9.3
80°-90°	123.1	1.6
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°	7592.3	100.0
0°-180°	7592.3	100.0



REPORT NUMBER: P146338

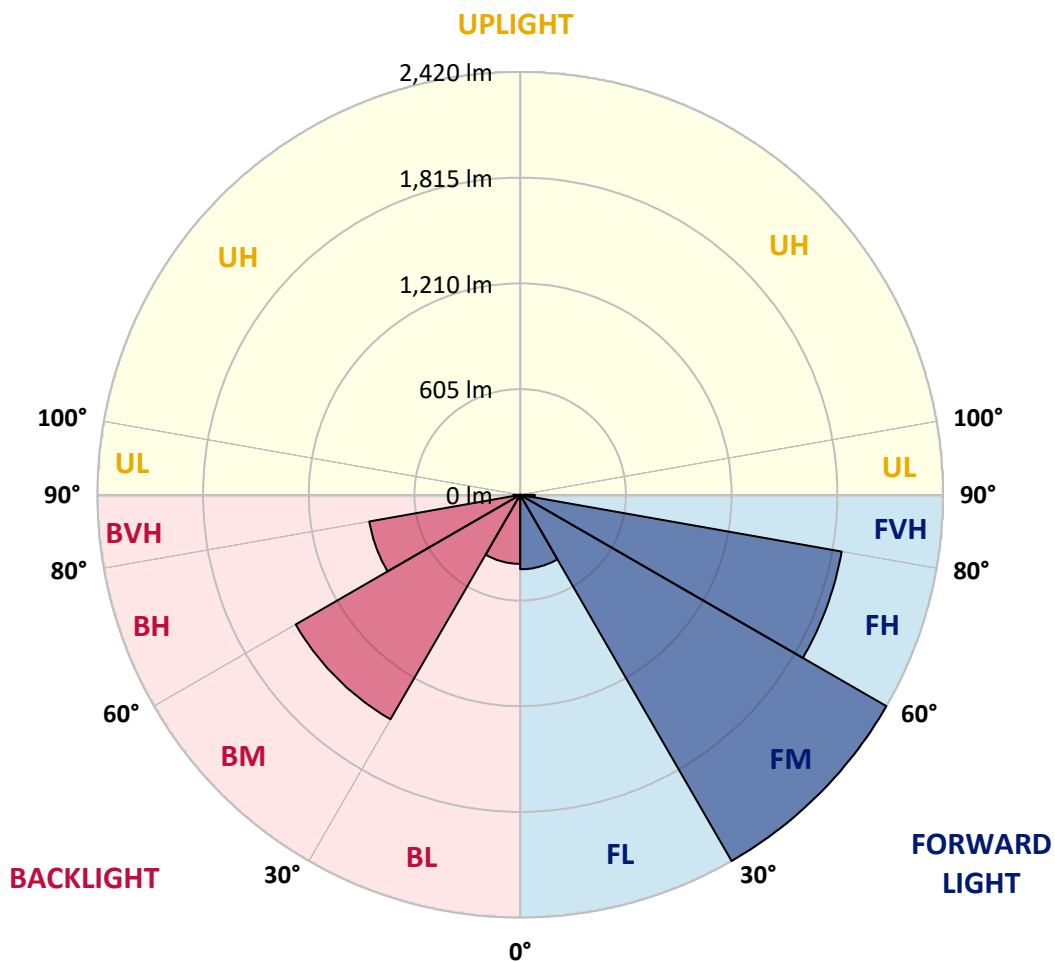
CATALOG NUMBER: LDRL-T2-E03-E-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	426.2	5.6			
FM	(30°-60°)	2419.8	31.9			
FH	(60°-80°)	1868.0	24.6			G2/5000
FVH	(80°-90°)	83.6	1.1			G1/100
BL	(0°-30°)	395.3	5.2	B1/500		
BM	(30°-60°)	1483.3	19.5	B2/2500		
BH	(60°-80°)	876.7	11.5	B2/1000		G2/1000
BVH	(80°-90°)	39.5	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: P146338

CATALOG NUMBER: LDRL-T2-E03-E-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	703.4	703.4	703.4	703.4	703.4	703.4	703.4	703.4	703.4	703.4	703.4
2.5°	742.4	741.9	741.4	739.3	738.3	734.3	730.2	727.7	725.7	726.7	723.6
5°	785.4	785.4	783.4	780.9	777.8	772.3	762.1	757.1	756.0	756.0	752.5
7.5°	829.5	832.5	826.9	824.9	819.9	811.2	799.6	793.0	791.0	791.0	787.9
10°	885.2	883.7	877.6	873.5	863.4	851.8	836.1	828.5	825.4	828.0	822.9
12.5°	943.9	943.4	934.3	926.7	912.5	893.8	873.0	862.9	860.9	860.9	857.8
15°	1003.7	1004.2	994.1	979.9	957.6	932.3	909.0	899.4	896.8	895.8	892.3
17.5°	1049.2	1054.3	1044.2	1026.0	998.6	970.8	945.9	936.3	935.8	934.8	930.8
20°	1075.1	1076.1	1070.5	1057.4	1033.0	1006.2	989.0	984.4	983.9	984.4	985.4
22.5°	1074.1	1075.6	1073.6	1068.5	1052.8	1038.1	1036.1	1038.6	1040.1	1038.6	1042.2
25°	1066.0	1068.0	1068.0	1070.5	1066.5	1071.5	1087.7	1094.8	1095.3	1096.3	1103.9
27.5°	1083.7	1085.7	1085.2	1089.8	1093.3	1111.0	1140.4	1153.1	1154.6	1158.1	1165.2
30°	1165.7	1166.2	1157.1	1156.6	1160.1	1174.3	1204.2	1218.9	1217.4	1224.5	1229.0
32.5°	1295.4	1299.4	1290.3	1280.7	1279.2	1281.2	1286.7	1296.9	1295.4	1298.9	1305.0
35°	1443.2	1443.7	1438.7	1444.2	1447.3	1433.6	1407.3	1404.7	1396.6	1398.2	1400.2
37.5°	1578.9	1582.5	1592.1	1627.6	1647.8	1614.4	1562.7	1530.3	1525.3	1522.7	1505.0
40°	1706.0	1723.8	1747.1	1793.1	1821.0	1833.1	1759.7	1694.4	1676.7	1669.6	1641.7
42.5°	1854.9	1864.0	1891.4	1944.0	1981.0	2036.2	1987.1	1915.2	1894.4	1864.0	1829.1
45°	1981.0	1987.1	2004.3	2048.9	2126.4	2218.5	2224.1	2174.0	2157.7	2127.4	2076.2
47.5°	2065.6	2065.1	2077.7	2121.3	2222.1	2362.8	2446.4	2444.4	2425.6	2415.0	2371.4
50°	2098.5	2098.0	2106.1	2154.7	2264.6	2448.9	2633.3	2696.6	2696.0	2700.1	2677.8
52.5°	2104.6	2104.1	2105.1	2144.1	2256.0	2478.8	2768.0	2917.3	2939.1	2966.5	2991.3
55°	2059.0	2064.1	2075.2	2116.2	2223.6	2466.6	2867.7	3124.5	3176.6	3232.3	3322.5
57.5°	1953.7	1963.3	2001.8	2075.2	2189.1	2436.8	2937.1	3380.7	3486.5	3621.2	3865.3
60°	1802.8	1811.4	1864.5	1961.8	2088.9	2306.6	2856.6	3488.0	3689.1	3923.0	4423.4
62.5°	1535.9	1560.2	1588.6	1657.4	1790.6	1965.8	2495.0	3306.8	3618.2	3961.5	4650.2
65°	1031.5	1021.4	1068.5	1156.1	1302.4	1438.7	1838.2	2727.4	3121.4	3593.9	4446.1
67.5°	638.6	640.1	672.0	757.6	868.0	973.8	1165.2	1738.5	2087.9	2537.0	3562.0
70°	527.7	533.7	559.6	639.1	733.3	852.8	864.9	921.6	1078.1	1295.4	2200.3
72.5°	418.8	421.3	447.7	514.0	647.2	811.2	1027.0	700.3	688.2	721.1	1116.1
75°	259.8	261.8	275.0	317.5	419.8	632.0	1130.8	805.2	754.5	712.0	719.1
77.5°	134.2	138.2	145.3	164.6	220.3	353.0	890.2	1020.9	963.2	905.4	792.5
80°	76.0	76.0	82.5	87.1	104.3	143.8	452.7	1105.0	1207.2	1232.1	1106.5
82.5°	33.9	38.0	51.1	54.7	59.8	65.8	149.9	663.9	921.1	1150.5	1422.0
85°	20.3	19.7	32.4	35.4	37.0	31.4	56.2	270.9	430.4	630.0	942.4
87.5°	8.1	8.6	13.7	14.7	17.2	12.7	21.3	58.2	85.6	124.1	175.2
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: P146338

CATALOG NUMBER: LDRL-T2-E03-E-8030

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	703.4	703.4	703.4	703.4	703.4	703.4	703.4	703.4	703.4	703.4	703.4
2.5°	723.1	723.1	722.6	722.1	721.6	720.1	719.6	718.6	718.1	716.5	716.0
5°	752.0	750.5	750.0	749.0	748.5	746.4	746.4	744.4	742.9	740.9	740.3
7.5°	786.4	784.4	782.9	781.9	781.4	777.8	777.8	774.8	774.3	771.7	770.7
10°	821.4	819.9	817.8	816.8	816.3	814.3	812.3	810.2	808.7	807.2	805.2
12.5°	856.3	853.3	852.3	850.7	849.7	848.2	847.7	843.1	843.1	841.6	839.6
15°	890.2	889.7	886.2	885.7	884.7	885.2	882.1	882.6	881.1	878.6	877.6
17.5°	931.8	928.2	929.7	927.2	927.7	926.7	925.7	925.2	926.2	925.7	926.7
20°	983.4	982.4	983.9	980.4	983.9	984.4	983.4	986.0	984.9	986.0	982.9
22.5°	1044.7	1041.1	1041.1	1043.7	1045.2	1049.8	1047.2	1049.2	1051.3	1052.8	1050.8
25°	1106.5	1105.5	1107.5	1109.5	1112.5	1116.6	1115.6	1116.1	1120.1	1122.7	1123.2
27.5°	1169.3	1169.3	1175.3	1175.3	1179.4	1184.0	1185.5	1187.5	1190.5	1194.1	1194.1
30°	1234.1	1234.1	1239.7	1244.7	1246.7	1252.3	1255.4	1258.4	1264.0	1265.0	1269.5
32.5°	1308.0	1309.5	1315.1	1318.1	1322.7	1329.3	1330.3	1333.8	1340.4	1342.5	1346.0
35°	1404.2	1399.2	1404.2	1409.8	1412.3	1410.3	1421.4	1426.0	1430.6	1433.1	1437.7
37.5°	1503.5	1494.9	1495.4	1494.4	1488.3	1491.8	1491.8	1490.8	1493.9	1493.4	1495.4
40°	1629.1	1613.9	1609.3	1599.7	1586.5	1579.4	1571.8	1570.8	1563.2	1566.3	1560.7
42.5°	1801.2	1778.5	1766.3	1736.4	1720.2	1701.0	1682.2	1666.0	1657.4	1647.8	1640.7
45°	2037.7	2010.9	1981.5	1933.4	1905.6	1867.1	1842.3	1805.3	1780.5	1759.7	1745.0
47.5°	2334.5	2289.4	2265.6	2220.5	2171.9	2113.7	2060.5	2008.9	1966.8	1921.3	1885.3
50°	2679.3	2623.1	2604.4	2544.6	2517.3	2452.0	2395.2	2331.4	2265.6	2196.7	2130.9
52.5°	2984.7	2978.1	2985.7	2945.7	2944.7	2911.8	2849.0	2774.5	2713.3	2643.9	2557.3
55°	3350.8	3416.1	3430.3	3424.7	3454.6	3453.6	3447.5	3439.9	3391.3	3293.1	3263.2
57.5°	3997.0	4070.4	4178.8	4227.9	4336.3	4348.9	4449.2	4410.2	4484.6	4464.4	4478.0
60°	4654.8	4880.1	5085.7	5242.2	5394.1	5532.4	5701.5	5773.9	5828.1	5912.7	6001.8
62.5°	4949.0	5233.1	5478.2	5701.0	5889.9	6065.1	6210.4	6348.2	6456.5	6553.8	6628.7
65°	4830.0	5159.7	5398.7	5631.1	5807.3	5970.4	6114.7	6218.0	6325.9	6414.0	6493.5
67.5°	4021.3	4460.3	4772.3	5036.1	5257.4	5443.2	5593.1	5735.4	5811.9	5908.1	5951.1
70°	2663.6	3226.7	3667.8	4024.3	4375.2	4585.9	4763.7	4929.2	5016.3	5094.3	5142.4
72.5°	1463.0	1847.8	2318.8	2742.6	3079.9	3356.4	3563.5	3720.5	3810.1	3877.0	3807.6
75°	829.0	1018.9	1249.3	1483.7	1739.5	1934.4	1989.1	2056.0	2071.7	2037.2	1948.1
77.5°	762.1	762.1	762.6	757.1	768.2	781.9	773.8	760.1	698.3	684.6	665.4
80°	991.0	883.2	767.7	630.5	514.0	433.5	408.7	410.7	430.4	468.9	511.5
82.5°	1404.7	1298.4	1131.8	922.7	734.3	576.3	472.5	424.9	424.4	462.8	518.0
85°	1024.4	1033.0	996.1	881.1	702.9	553.5	447.1	343.3	309.9	309.9	305.9
87.5°	179.3	184.8	159.5	142.8	99.8	70.4	63.3	55.7	55.2	57.2	52.7
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: P146338

CATALOG NUMBER: LDRL-T2-E03-E-8030

CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	703.4	703.4	703.4	703.4	703.4	703.4	703.4	703.4	703.4	703.4	703.4
2.5°	716.0	715.0	714.0	713.5	713.5	712.5	712.5	711.5	712.0	711.5	710.0
5°	739.3	738.8	737.3	734.8	734.3	732.2	732.2	730.7	730.7	729.7	727.2
7.5°	768.7	767.7	766.7	764.7	762.6	762.6	759.1	759.1	756.6	755.5	753.5
10°	803.6	800.6	799.1	797.1	796.6	796.1	792.5	792.5	789.5	789.0	787.4
12.5°	838.1	836.1	834.5	833.5	831.0	830.5	829.0	827.4	825.9	824.9	824.4
15°	875.6	874.5	873.0	873.0	873.0	870.5	869.0	868.0	868.0	866.4	867.5
17.5°	924.2	925.7	923.7	922.7	921.1	923.7	921.1	921.1	922.7	922.7	919.1
20°	984.4	986.5	984.4	984.9	983.9	984.4	984.9	986.0	988.0	984.4	984.9
22.5°	1051.3	1051.8	1053.3	1051.8	1054.3	1052.8	1055.8	1058.4	1057.9	1056.8	1057.4
25°	1124.2	1122.7	1123.2	1127.7	1131.3	1130.3	1130.8	1134.8	1133.8	1132.8	1133.3
27.5°	1198.1	1197.1	1198.6	1202.7	1206.7	1206.2	1205.2	1208.3	1208.3	1205.7	1206.7
30°	1271.6	1273.1	1275.6	1275.6	1277.6	1279.7	1278.1	1281.7	1282.2	1280.2	1282.7
32.5°	1349.0	1352.1	1351.1	1358.2	1358.2	1358.7	1360.2	1359.7	1364.7	1360.7	1362.2
35°	1442.2	1443.2	1449.3	1454.4	1457.4	1459.9	1459.9	1461.5	1464.0	1462.0	1465.0
37.5°	1498.9	1501.0	1503.0	1506.0	1506.0	1506.0	1508.5	1509.1	1510.6	1510.1	1511.1
40°	1561.2	1561.7	1562.2	1562.7	1564.8	1565.8	1563.2	1566.8	1564.3	1565.3	1566.8
42.5°	1636.7	1629.6	1630.6	1629.1	1632.6	1628.1	1629.1	1633.1	1631.1	1634.1	1634.1
45°	1724.3	1716.2	1709.1	1705.0	1705.0	1699.0	1700.0	1701.5	1704.0	1708.1	1715.2
47.5°	1853.9	1826.1	1812.4	1798.2	1791.1	1783.5	1786.1	1786.6	1787.6	1794.2	1811.9
50°	2066.1	2019.5	1983.5	1940.5	1924.3	1911.1	1903.5	1904.0	1904.0	1917.7	1935.4
52.5°	2476.3	2389.7	2304.1	2229.1	2164.8	2133.9	2098.0	2088.9	2089.4	2101.0	2113.2
55°	3184.7	3065.7	2975.1	2808.5	2757.8	2615.5	2540.6	2497.5	2464.1	2480.3	2498.0
57.5°	4455.8	4345.9	4274.0	4075.0	3893.7	3842.0	3719.0	3619.2	3578.2	3530.6	3533.6
60°	6015.0	5958.2	5940.0	5823.5	5758.2	5555.1	5538.9	5412.9	5293.8	5191.1	5233.1
62.5°	6686.4	6712.8	6734.0	6775.1	6790.8	6771.5	6690.0	6634.3	6536.5	6401.8	6319.3
65°	6516.8	6577.1	6667.7	6753.3	6855.6	6940.6	6982.7	6966.5	6878.4	6739.6	6566.4
67.5°	5982.0	6043.3	6121.3	6229.7	6386.1	6551.7	6667.2	6740.6	6670.7	6545.7	6369.4
70°	5139.9	5199.7	5202.2	5353.6	5522.2	5730.9	5935.5	6012.4	5932.9	5849.4	5702.0
72.5°	3849.6	3813.7	3847.1	3874.9	3971.1	4102.8	4301.3	4292.7	4171.2	4106.4	3880.0
75°	1809.3	1785.0	1749.6	1726.3	1704.0	1657.4	1679.7	1584.5	1551.6	1564.8	1369.3
77.5°	650.7	617.3	563.6	511.5	445.6	369.2	311.4	273.5	254.7	255.2	243.6
80°	545.9	562.1	554.5	502.8	428.9	348.9	261.3	198.0	169.1	157.0	149.4
82.5°	592.0	673.5	714.0	682.1	576.3	443.6	285.6	172.7	126.6	108.4	103.8
85°	328.1	328.7	318.5	304.3	269.9	185.3	123.6	82.0	65.8	58.7	56.7
87.5°	55.7	53.2	53.2	49.6	43.5	42.5	38.0	36.0	31.9	29.4	28.4
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: P146338

CATALOG NUMBER: LDRL-T2-E03-E-8030

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	703.4	703.4	703.4	703.4	703.4	703.4	703.4	703.4	703.4	703.4	703.4
2.5°	708.4	707.4	706.9	706.4	706.4	705.9	705.9	704.9	703.9	703.4	702.9
5°	724.7	723.6	722.6	721.6	721.6	720.6	719.6	718.6	717.1	714.5	714.0
7.5°	752.0	750.0	750.0	746.4	746.4	744.4	742.9	742.9	740.9	736.8	736.3
10°	785.9	782.4	780.9	778.8	777.8	775.8	775.8	773.8	772.8	771.2	766.2
12.5°	822.4	819.9	818.8	816.3	814.8	814.8	813.8	810.2	812.8	809.2	806.7
15°	866.4	865.9	861.4	862.9	862.4	861.9	862.4	859.4	858.8	858.8	855.8
17.5°	921.6	917.6	918.1	918.1	919.1	919.1	915.1	917.1	917.6	916.6	915.6
20°	986.5	984.9	986.5	983.4	986.5	986.5	988.5	988.0	988.5	989.5	989.5
22.5°	1055.8	1059.9	1060.4	1061.4	1057.9	1063.9	1063.9	1064.9	1067.5	1067.5	1068.5
25°	1139.9	1137.9	1135.3	1138.9	1139.9	1143.9	1145.0	1145.0	1149.0	1149.0	1150.5
27.5°	1209.8	1211.8	1211.3	1213.3	1212.3	1217.9	1219.9	1226.0	1224.5	1227.5	1231.6
30°	1281.7	1285.7	1283.7	1284.2	1286.7	1290.3	1294.3	1300.4	1301.4	1309.5	1311.6
32.5°	1364.7	1367.8	1370.3	1371.3	1371.3	1377.4	1384.0	1386.0	1396.6	1402.7	1409.8
35°	1470.1	1470.6	1472.1	1473.6	1472.6	1479.2	1485.8	1487.8	1498.9	1500.4	1515.1
37.5°	1514.6	1515.6	1521.7	1524.8	1526.8	1534.9	1547.0	1556.2	1568.3	1580.0	1596.7
40°	1570.3	1576.4	1582.0	1586.5	1594.1	1605.3	1624.0	1633.1	1651.4	1673.1	1689.3
42.5°	1640.7	1651.9	1655.9	1664.5	1683.3	1696.9	1715.7	1735.4	1759.7	1786.1	1805.3
45°	1724.3	1734.9	1750.1	1759.7	1781.5	1803.3	1833.1	1850.4	1875.2	1905.6	1926.8
47.5°	1825.6	1840.2	1855.4	1875.2	1901.0	1923.8	1953.7	1976.0	2000.8	2025.6	2048.9
50°	1951.6	1973.4	1993.7	2014.4	2048.9	2068.1	2097.5	2120.8	2144.1	2168.9	2190.2
52.5°	2121.3	2154.2	2180.0	2194.2	2240.8	2260.0	2296.0	2312.2	2331.4	2353.7	2381.1
55°	2491.5	2542.6	2586.2	2611.5	2682.4	2707.7	2754.3	2778.1	2764.9	2793.3	2842.4
57.5°	3562.0	3624.8	3676.9	3711.4	3783.8	3819.2	3821.8	3910.9	3858.2	3910.4	3918.0
60°	5121.2	5170.8	5158.1	5158.6	5135.9	5102.9	5166.2	5070.0	5110.5	5113.1	5022.4
62.5°	6166.9	6090.9	6055.5	5996.7	5928.4	5875.7	5839.7	5762.3	5700.5	5651.4	5555.7
65°	6413.0	6281.3	6164.8	6055.0	5954.2	5884.3	5808.3	5725.3	5628.6	5547.0	5453.9
67.5°	6175.0	5990.6	5818.0	5673.1	5535.4	5443.2	5333.3	5254.3	5132.8	5025.5	4954.6
70°	5484.8	5229.5	5028.0	4935.3	4798.6	4600.6	4495.8	4397.0	4322.6	4225.4	4182.3
72.5°	3847.6	3532.6	3377.1	3383.2	3244.5	3102.7	3106.2	3046.0	2949.7	2946.7	2932.0
75°	1413.9	1286.2	1196.6	1200.7	1149.0	1093.8	1109.0	1125.2	1093.8	1157.6	1058.9
77.5°	224.8	218.8	216.7	212.2	201.0	209.1	203.6	214.2	215.7	227.4	228.4
80°	143.3	137.2	135.7	133.2	132.7	132.7	131.7	131.7	131.7	132.2	131.2
82.5°	95.7	92.2	91.7	90.1	92.7	93.2	93.7	97.7	101.3	102.3	106.3
85°	52.2	49.6	49.6	48.6	50.6	51.1	55.7	61.3	68.4	71.4	78.0
87.5°	26.3	27.9	27.3	28.4	29.9	33.4	37.0	40.5	44.6	50.1	54.7
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: P146338

CATALOG NUMBER: LDRL-T2-E03-E-8030

CANDELA DISTRIBUTION (continued):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	703.4	703.4	703.4	703.4	703.4	703.4	703.4	703.4	703.4	703.4	703.4
2.5°	701.9	701.4	701.4	700.3	700.3	699.8	698.8	697.8	693.3	687.7	684.1
5°	712.5	711.5	711.0	710.0	708.4	708.4	706.9	704.9	696.3	687.2	681.6
7.5°	734.3	733.8	732.2	730.2	728.2	726.2	725.2	724.1	711.0	702.4	698.3
10°	765.7	765.2	761.6	761.1	758.1	758.6	756.0	754.0	745.4	735.8	730.2
12.5°	805.7	807.7	805.7	801.1	802.1	800.6	798.1	795.5	787.9	780.4	771.7
15°	855.3	852.8	850.7	854.8	851.2	850.7	852.3	852.8	843.7	835.6	823.4
17.5°	917.1	917.1	916.1	917.1	915.1	916.6	915.6	916.6	912.5	901.4	883.7
20°	987.5	991.5	991.5	990.0	989.5	992.5	994.1	988.5	989.5	979.9	948.0
22.5°	1069.5	1072.5	1073.6	1072.0	1072.5	1076.6	1079.1	1075.1	1084.2	1068.5	1019.4
25°	1154.1	1158.6	1156.6	1157.1	1161.2	1165.7	1170.3	1166.2	1184.0	1159.6	1095.3
27.5°	1237.6	1241.7	1240.7	1243.7	1250.3	1256.4	1261.4	1259.9	1289.3	1257.4	1175.3
30°	1316.6	1326.2	1328.3	1331.8	1339.9	1350.0	1358.2	1357.6	1395.6	1352.6	1240.7
32.5°	1413.9	1424.5	1428.5	1436.1	1451.8	1458.9	1469.1	1470.1	1508.0	1436.1	1295.9
35°	1526.3	1536.9	1545.5	1551.1	1568.8	1577.4	1587.5	1592.1	1617.4	1514.1	1334.3
37.5°	1613.4	1622.5	1639.2	1650.8	1666.5	1683.8	1695.4	1701.0	1715.2	1581.0	1352.1
40°	1708.6	1728.3	1744.5	1762.3	1779.5	1793.1	1803.8	1812.4	1806.8	1636.7	1344.5
42.5°	1829.1	1849.9	1871.6	1886.8	1895.9	1914.2	1919.2	1925.3	1879.7	1662.0	1310.0
45°	1954.7	1971.4	1989.6	2000.8	2012.9	2022.0	2023.6	2024.1	1933.9	1647.3	1247.8
47.5°	2075.7	2089.9	2102.6	2108.6	2114.7	2115.2	2112.7	2108.6	1962.8	1597.7	1172.8
50°	2208.4	2217.0	2222.6	2223.1	2228.6	2218.0	2210.9	2192.2	1959.7	1521.7	1093.8
52.5°	2399.3	2397.3	2390.2	2389.7	2372.0	2351.7	2338.5	2311.7	1939.0	1439.7	1002.7
55°	2837.8	2818.6	2840.9	2784.2	2737.1	2705.7	2631.2	2577.0	1959.7	1363.2	897.8
57.5°	3891.6	3825.8	3832.9	3741.2	3641.0	3453.1	3342.2	3192.3	2122.8	1320.7	765.7
60°	5003.2	4894.8	4792.5	4630.0	4416.8	4178.3	3963.6	3729.1	2284.9	1268.5	624.9
62.5°	5462.0	5322.2	5144.5	4915.1	4641.1	4345.4	4048.6	3781.2	2195.7	1111.5	450.2
65°	5314.1	5147.0	4957.6	4658.3	4347.4	4003.6	3678.5	3395.9	1828.6	812.8	271.9
67.5°	4789.0	4645.2	4411.7	4129.1	3744.3	3399.4	3077.9	2816.6	1348.0	502.3	156.0
70°	4032.4	3833.4	3633.9	3362.5	2956.8	2631.7	2332.5	2101.5	855.3	248.1	115.0
72.5°	2783.1	2625.7	2466.1	2223.1	1920.2	1696.4	1439.2	1249.3	447.7	133.7	105.8
75°	1084.2	1067.0	1048.7	938.3	835.6	669.5	587.9	530.2	186.4	116.0	104.3
77.5°	238.0	252.2	260.3	246.6	235.0	209.6	200.5	179.3	124.6	119.0	103.3
80°	131.2	131.2	131.2	132.7	130.1	130.1	128.6	126.1	116.5	119.0	101.3
82.5°	107.4	108.9	110.9	111.4	110.9	111.4	110.4	109.9	113.9	119.5	96.2
85°	82.0	87.1	90.1	94.2	98.2	100.8	101.8	102.3	104.8	113.4	84.1
87.5°	58.2	62.3	68.9	69.9	74.4	80.0	82.0	85.1	83.6	86.1	39.5
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: P146338

CATALOG NUMBER: LDRL-T2-E03-E-8030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	703.4	703.4	703.4	703.4	703.4
2.5°	681.1	677.0	675.5	675.0	674.0
5°	677.0	674.5	672.5	671.0	672.0
7.5°	695.3	693.8	690.2	689.2	690.7
10°	727.7	724.1	719.1	719.6	719.1
12.5°	768.2	758.6	750.5	746.9	744.4
15°	809.7	791.0	774.3	766.7	763.6
17.5°	855.8	823.9	798.1	784.4	781.9
20°	904.4	860.4	826.9	810.7	808.2
22.5°	960.6	899.9	857.3	835.0	831.5
25°	1015.3	935.3	878.6	851.2	846.7
27.5°	1064.9	962.1	891.3	858.8	854.3
30°	1106.5	983.4	901.9	864.9	859.9
32.5°	1133.8	995.1	905.4	865.4	859.4
35°	1142.4	987.5	890.2	844.2	839.1
37.5°	1124.2	956.6	849.7	797.6	793.5
40°	1082.7	899.4	785.9	731.7	726.7
42.5°	1017.9	826.9	712.0	654.8	650.2
45°	945.9	749.5	633.5	576.3	571.7
47.5°	867.5	667.4	551.0	498.3	491.2
50°	781.4	578.3	466.9	415.2	408.7
52.5°	680.6	481.1	377.8	331.2	327.1
55°	562.6	383.3	300.8	266.9	262.8
57.5°	437.5	291.7	239.0	222.3	215.7
60°	317.5	221.8	190.4	182.3	178.8
62.5°	215.7	165.6	153.4	150.9	148.4
65°	146.3	129.6	126.1	126.6	125.1
67.5°	115.5	108.9	106.8	107.9	107.4
70°	101.3	96.2	95.7	96.7	96.2
72.5°	95.7	89.1	90.1	91.7	91.2
75°	93.2	86.1	88.1	89.1	86.6
77.5°	90.6	81.5	87.6	89.6	84.6
80°	87.1	77.5	91.7	90.6	81.0
82.5°	79.5	68.4	89.6	82.0	72.9
85°	64.8	51.1	100.8	72.4	53.2
87.5°	41.5	30.9	69.9	55.2	35.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)