

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: P146353

Luminaire Tested: **LDRL-T2-F04-E-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146353
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-F04-E-8030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8356.8 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

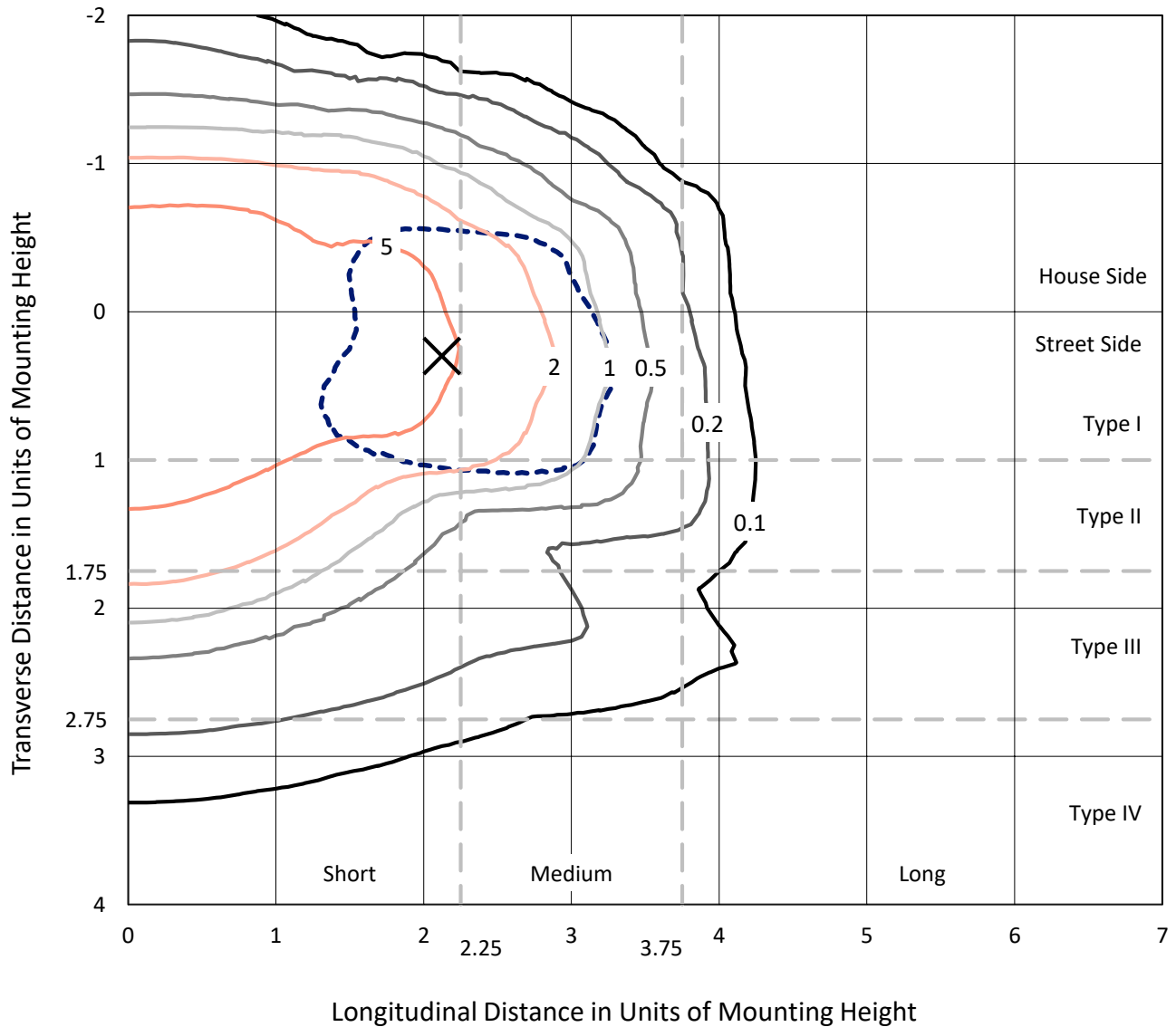
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P146353
 CATALOG NUMBER: LDRL-T2-F04-E-8030

Iso-Footcandle Lines of Horizontal Illumination

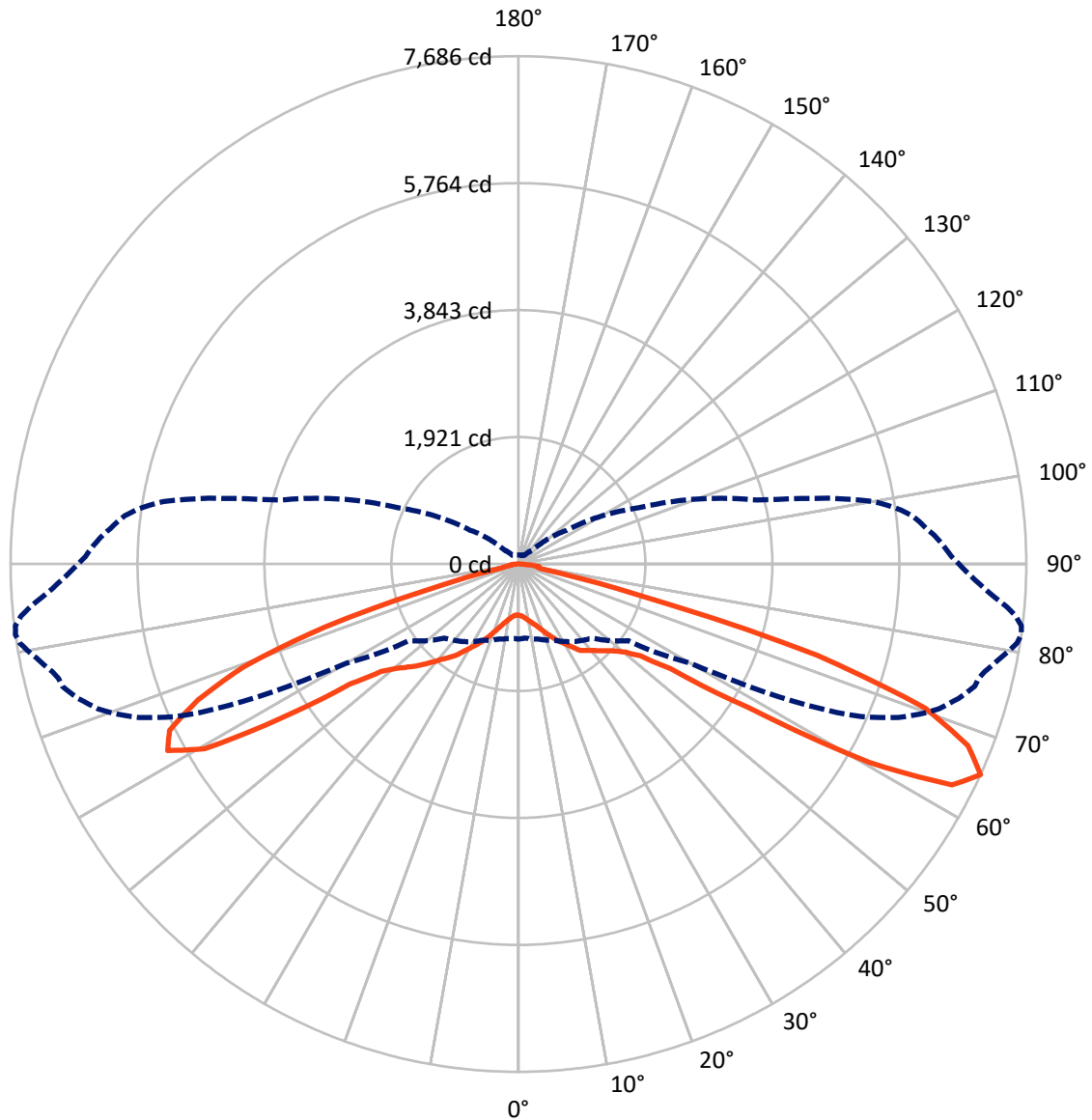
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P146353
CATALOG NUMBER: LDRL-T2-F04-E-8030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P146353

CATALOG NUMBER: LDRL-T2-F04-E-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3076.2	0.0	3076.2
	% Fixture	36.8	0.0	36.8
Street Side	Lumens	5280.6	0.0	5280.6
	% Fixture	63.2	0.0	63.2
Total	Lumens	8356.8	0.0	8356.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	0.9
10°-20°	276.7	3.3
20°-30°	548.9	6.6
30°-40°	936.6	11.2
40°-50°	1404.5	16.8
50°-60°	1954.9	23.4
60°-70°	2246.0	26.9
70°-80°	775.1	9.3
80°-90°	135.5	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°	8356.8	100.0
0°-180°	8356.8	100.0

Coefficient of Utilization



REPORT NUMBER: P146353

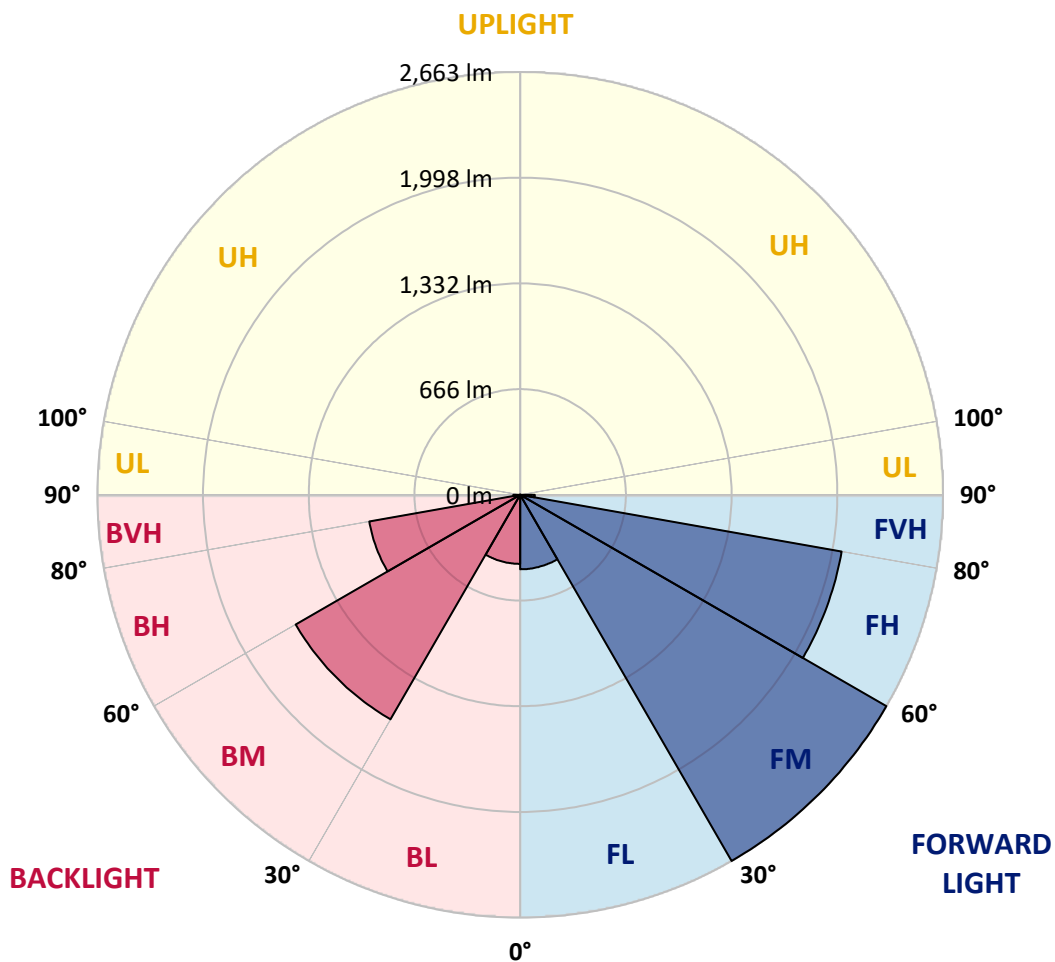
CATALOG NUMBER: LDRL-T2-F04-E-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	469.1	5.6			
FM	(30°-60°)	2663.4	31.9			
FH	(60°-80°)	2056.1	24.6			G2/5000
FVH	(80°-90°)	92.1	1.1			G1/100
BL	(0°-30°)	435.1	5.2	B1/500		
BM	(30°-60°)	1632.6	19.5	B2/2500		
BH	(60°-80°)	965.0	11.5	B2/1000		G2/1000
BVH	(80°-90°)	43.5	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: P146353

CATALOG NUMBER: LDRL-T2-F04-E-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	774.2	774.2	774.2	774.2	774.2	774.2	774.2	774.2	774.2	774.2	774.2
2.5°	817.1	816.6	816.0	813.8	812.7	808.2	803.8	801.0	798.7	799.9	796.5
5°	864.5	864.5	862.3	859.5	856.1	850.0	838.9	833.3	832.2	832.2	828.3
7.5°	913.0	916.3	910.2	908.0	902.4	892.9	880.1	872.9	870.6	870.6	867.3
10°	974.3	972.6	966.0	961.5	950.3	937.5	920.2	911.9	908.5	911.3	905.8
12.5°	1039.0	1038.4	1028.4	1020.0	1004.4	983.8	960.9	949.8	947.6	947.6	944.2
15°	1104.7	1105.3	1094.2	1078.5	1054.0	1026.2	1000.5	989.9	987.1	986.0	982.1
17.5°	1154.9	1160.5	1149.3	1129.3	1099.2	1068.5	1041.2	1030.6	1030.1	1028.9	1024.5
20°	1183.3	1184.5	1178.3	1163.8	1137.1	1107.5	1088.6	1083.6	1083.0	1083.6	1084.7
22.5°	1182.2	1183.9	1181.7	1176.1	1158.8	1142.6	1140.4	1143.2	1144.9	1143.2	1147.1
25°	1173.3	1175.5	1175.5	1178.3	1173.9	1179.4	1197.3	1205.1	1205.6	1206.7	1215.1
27.5°	1192.8	1195.0	1194.5	1199.5	1203.4	1222.9	1255.2	1269.2	1270.8	1274.7	1282.6
30°	1283.1	1283.7	1273.6	1273.1	1277.0	1292.6	1325.5	1341.6	1340.0	1347.8	1352.8
32.5°	1425.8	1430.3	1420.2	1409.6	1408.0	1410.2	1416.3	1427.5	1425.8	1429.7	1436.4
35°	1588.6	1589.1	1583.5	1589.7	1593.0	1578.0	1549.0	1546.2	1537.3	1538.9	1541.2
37.5°	1737.9	1741.8	1752.4	1791.4	1813.7	1777.0	1720.1	1684.4	1678.9	1676.1	1656.6
40°	1877.8	1897.4	1923.0	1973.7	2004.4	2017.7	1936.9	1865.0	1845.5	1837.7	1807.1
42.5°	2041.7	2051.7	2081.8	2139.8	2180.5	2241.3	2187.2	2108.0	2085.2	2051.7	2013.3
45°	2180.5	2187.2	2206.1	2255.2	2340.5	2441.9	2448.1	2392.9	2375.0	2341.6	2285.3
47.5°	2273.6	2273.0	2287.0	2334.9	2445.8	2600.8	2692.7	2690.5	2669.9	2658.2	2610.3
50°	2309.8	2309.3	2318.2	2371.7	2492.6	2695.5	2898.4	2968.1	2967.5	2972.0	2947.5
52.5°	2316.5	2315.9	2317.1	2360.0	2483.2	2728.4	3046.7	3211.1	3235.1	3265.2	3292.5
55°	2266.3	2271.9	2284.2	2329.3	2447.5	2715.0	3156.5	3439.1	3496.5	3557.8	3657.0
57.5°	2150.4	2161.0	2203.4	2284.2	2409.6	2682.2	3232.9	3721.1	3837.6	3985.9	4254.5
60°	1984.3	1993.8	2052.3	2159.3	2299.2	2538.9	3144.2	3839.3	4060.6	4318.1	4868.8
62.5°	1690.6	1717.3	1748.5	1824.3	1970.9	2163.8	2746.3	3639.7	3982.5	4360.4	5118.5
65°	1135.4	1124.3	1176.1	1272.5	1433.6	1583.5	2023.3	3002.1	3435.7	3955.8	4893.9
67.5°	702.9	704.5	739.7	833.9	955.4	1071.9	1282.6	1913.5	2298.1	2792.5	3920.7
70°	580.8	587.5	615.9	703.4	807.1	938.6	952.0	1014.4	1186.7	1425.8	2421.9
72.5°	461.0	463.7	492.7	565.7	712.3	892.9	1130.4	770.9	757.5	793.7	1228.5
75°	285.9	288.2	302.7	349.5	462.1	695.6	1244.6	886.2	830.5	783.7	791.5
77.5°	147.7	152.2	160.0	181.2	242.5	388.5	979.9	1123.7	1060.2	996.6	872.3
80°	83.6	83.6	90.9	95.9	114.8	158.3	498.3	1216.2	1328.8	1356.1	1217.9
82.5°	37.3	41.8	56.3	60.2	65.8	72.5	165.0	730.7	1013.9	1266.4	1565.1
85°	22.3	21.7	35.7	39.0	40.7	34.6	61.9	298.2	473.8	693.4	1037.3
87.5°	8.9	9.5	15.0	16.2	19.0	13.9	23.4	64.1	94.2	136.6	192.9
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: P146353

CATALOG NUMBER: LDRL-T2-F04-E-8030

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	774.2	774.2	774.2	774.2	774.2	774.2	774.2	774.2	774.2	774.2	774.2
2.5°	796.0	796.0	795.4	794.8	794.3	792.6	792.0	790.9	790.4	788.7	788.1
5°	827.7	826.0	825.5	824.4	823.8	821.6	821.6	819.4	817.7	815.5	814.9
7.5°	865.6	863.4	861.7	860.6	860.1	856.1	856.1	852.8	852.2	849.5	848.3
10°	904.1	902.4	900.2	899.1	898.5	896.3	894.1	891.8	890.1	888.5	886.2
12.5°	942.5	939.2	938.1	936.4	935.3	933.6	933.1	928.1	928.1	926.4	924.2
15°	979.9	979.3	975.4	974.9	973.8	974.3	971.0	971.5	969.9	967.1	966.0
17.5°	1025.6	1021.7	1023.4	1020.6	1021.1	1020.0	1018.9	1018.3	1019.5	1018.9	1020.0
20°	1082.4	1081.3	1083.0	1079.1	1083.0	1083.6	1082.4	1085.2	1084.1	1085.2	1081.9
22.5°	1149.9	1146.0	1146.0	1148.8	1150.4	1155.5	1152.7	1154.9	1157.1	1158.8	1156.6
25°	1217.9	1216.8	1219.0	1221.2	1224.6	1229.0	1227.9	1228.5	1232.9	1235.7	1236.3
27.5°	1287.0	1287.0	1293.7	1293.7	1298.2	1303.2	1304.8	1307.1	1310.4	1314.3	1314.3
30°	1358.4	1358.4	1364.5	1370.1	1372.3	1378.4	1381.8	1385.1	1391.2	1392.4	1397.4
32.5°	1439.7	1441.4	1447.5	1450.9	1455.9	1463.1	1464.3	1468.2	1475.4	1477.6	1481.5
35°	1545.6	1540.1	1545.6	1551.8	1554.6	1552.3	1564.6	1569.6	1574.6	1577.4	1582.4
37.5°	1654.9	1645.4	1646.0	1644.9	1638.2	1642.1	1642.1	1641.0	1644.3	1643.7	1646.0
40°	1793.1	1776.4	1771.4	1760.8	1746.3	1738.5	1730.1	1729.0	1720.7	1724.0	1717.9
42.5°	1982.6	1957.5	1944.2	1911.3	1893.4	1872.3	1851.6	1833.8	1824.3	1813.7	1805.9
45°	2242.9	2213.4	2181.1	2128.1	2097.5	2055.1	2027.8	1987.1	1959.8	1936.9	1920.8
47.5°	2569.6	2520.0	2493.8	2444.1	2390.6	2326.5	2268.0	2211.2	2164.9	2114.7	2075.2
50°	2949.1	2887.3	2866.6	2800.9	2770.8	2698.9	2636.4	2566.2	2493.8	2418.0	2345.5
52.5°	3285.2	3278.0	3286.4	3242.3	3241.2	3205.0	3135.9	3053.9	2986.5	2910.1	2814.8
55°	3688.2	3760.1	3775.7	3769.6	3802.5	3801.4	3794.7	3786.3	3732.8	3624.7	3591.8
57.5°	4399.5	4480.3	4599.6	4653.6	4772.9	4786.9	4897.2	4854.3	4936.2	4913.9	4929.0
60°	5123.5	5371.6	5597.9	5770.1	5937.3	6089.5	6275.6	6355.3	6415.0	6508.1	6606.2
62.5°	5447.4	5760.1	6029.8	6275.1	6483.0	6675.8	6835.8	6987.4	7106.7	7213.7	7296.2
65°	5316.4	5679.2	5942.3	6198.2	6392.1	6571.6	6730.5	6844.2	6962.9	7059.9	7147.4
67.5°	4426.2	4909.5	5252.8	5543.2	5786.8	5991.4	6156.4	6313.0	6397.1	6503.1	6550.4
70°	2931.9	3551.7	4037.2	4429.6	4815.8	5047.7	5243.4	5425.6	5521.5	5607.3	5660.3
72.5°	1610.3	2033.9	2552.3	3018.8	3390.0	3694.4	3922.3	4095.1	4193.8	4267.4	4191.0
75°	912.4	1121.5	1375.1	1633.1	1914.6	2129.2	2189.4	2263.0	2280.3	2242.4	2144.3
77.5°	838.9	838.9	839.4	833.3	845.6	860.6	851.7	836.6	768.6	753.6	732.4
80°	1090.8	972.1	845.0	693.9	565.7	477.1	449.8	452.0	473.8	516.1	563.0
82.5°	1546.2	1429.1	1245.8	1015.6	808.2	634.3	520.0	467.6	467.1	509.5	570.2
85°	1127.6	1137.1	1096.4	969.9	773.7	609.2	492.2	377.9	341.1	341.1	336.7
87.5°	197.3	203.4	175.6	157.2	109.8	77.5	69.7	61.3	60.8	63.0	58.0
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: P146353

CATALOG NUMBER: LDRL-T2-F04-E-8030

CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	774.2	774.2	774.2	774.2	774.2	774.2	774.2	774.2	774.2	774.2	774.2
2.5°	788.1	787.0	785.9	785.4	785.4	784.2	784.2	783.1	783.7	783.1	781.5
5°	813.8	813.2	811.6	808.8	808.2	806.0	806.5	804.3	804.3	803.2	800.4
7.5°	846.1	845.0	843.9	841.7	839.4	839.4	835.5	835.5	832.7	831.6	829.4
10°	884.6	881.2	879.6	877.3	876.8	876.2	872.3	872.3	869.0	868.4	866.7
12.5°	922.5	920.2	918.6	917.5	914.7	914.1	912.4	910.8	909.1	908.0	907.4
15°	963.7	962.6	960.9	960.9	960.9	958.2	956.5	955.4	955.4	953.7	954.8
17.5°	1017.2	1018.9	1016.7	1015.6	1013.9	1016.7	1013.9	1013.9	1015.6	1015.6	1011.7
20°	1083.6	1085.8	1083.6	1084.1	1083.0	1083.6	1084.1	1085.2	1087.5	1083.6	1084.1
22.5°	1157.1	1157.7	1159.4	1157.7	1160.5	1158.8	1162.2	1164.9	1164.4	1163.3	1163.8
25°	1237.4	1235.7	1236.3	1241.3	1245.2	1244.1	1244.6	1249.1	1248.0	1246.9	1247.4
27.5°	1318.8	1317.7	1319.3	1323.8	1328.3	1327.7	1326.6	1329.9	1329.9	1327.1	1328.3
30°	1399.6	1401.3	1404.1	1404.1	1406.3	1408.5	1406.8	1410.8	1411.3	1409.1	1411.9
32.5°	1484.9	1488.2	1487.1	1494.9	1494.9	1495.5	1497.1	1496.6	1502.2	1497.7	1499.4
35°	1587.4	1588.6	1595.2	1600.8	1604.2	1607.0	1607.0	1608.6	1611.4	1609.2	1612.5
37.5°	1649.9	1652.1	1654.3	1657.7	1657.7	1657.7	1660.5	1661.0	1662.7	1662.1	1663.2
40°	1718.4	1719.0	1719.5	1720.1	1722.3	1723.4	1720.7	1724.6	1721.8	1722.9	1724.6
42.5°	1801.5	1793.7	1794.8	1793.1	1797.0	1792.0	1793.1	1797.6	1795.3	1798.7	1798.7
45°	1897.9	1889.0	1881.2	1876.7	1876.7	1870.0	1871.2	1872.8	1875.6	1880.1	1887.9
47.5°	2040.6	2009.9	1994.9	1979.3	1971.5	1963.1	1965.9	1966.5	1967.6	1974.8	1994.3
50°	2274.1	2222.9	2183.3	2135.9	2118.1	2103.6	2095.2	2095.8	2095.8	2110.8	2130.3
52.5°	2725.6	2630.3	2536.1	2453.6	2382.8	2348.8	2309.3	2299.2	2299.8	2312.6	2326.0
55°	3505.4	3374.4	3274.7	3091.3	3035.5	2878.9	2796.4	2749.0	2712.3	2730.1	2749.6
57.5°	4904.5	4783.5	4704.4	4485.3	4285.8	4228.9	4093.5	3983.7	3938.5	3886.1	3889.5
60°	6620.7	6558.2	6538.2	6410.0	6338.1	6114.6	6096.7	5957.9	5826.9	5713.8	5760.1
62.5°	7359.8	7388.7	7412.2	7457.3	7474.6	7453.4	7363.7	7302.3	7194.8	7046.5	6955.7
65°	7173.0	7239.4	7339.1	7433.3	7545.9	7639.6	7685.8	7668.0	7571.0	7418.3	7227.7
67.5°	6584.4	6651.9	6737.7	6857.0	7029.2	7211.5	7338.6	7419.4	7342.5	7204.8	7010.8
70°	5657.5	5723.3	5726.1	5892.7	6078.3	6308.0	6533.1	6617.9	6530.4	6438.4	6276.2
72.5°	4237.3	4197.7	4234.5	4265.1	4371.0	4516.0	4734.5	4725.0	4591.2	4519.9	4270.7
75°	1991.5	1964.8	1925.8	1900.1	1875.6	1824.3	1848.9	1744.1	1707.8	1722.3	1507.2
77.5°	716.2	679.5	620.4	563.0	490.5	406.3	342.8	301.0	280.4	280.9	268.1
80°	600.9	618.7	610.3	553.5	472.1	384.0	287.6	217.9	186.2	172.8	164.4
82.5°	651.6	741.3	785.9	750.8	634.3	488.3	314.4	190.1	139.3	119.3	114.3
85°	361.2	361.7	350.6	335.0	297.1	204.0	136.0	90.3	72.5	64.7	62.4
87.5°	61.3	58.5	58.5	54.6	47.9	46.8	41.8	39.6	35.1	32.3	31.2
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: P146353

CATALOG NUMBER: LDRL-T2-F04-E-8030

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	774.2	774.2	774.2	774.2	774.2	774.2	774.2	774.2	774.2	774.2	774.2
2.5°	779.8	778.7	778.1	777.6	777.6	777.0	777.0	775.9	774.8	774.2	773.7
5°	797.6	796.5	795.4	794.3	794.3	793.2	792.0	790.9	789.3	786.5	785.9
7.5°	827.7	825.5	825.5	821.6	821.6	819.4	817.7	817.7	815.5	811.0	810.4
10°	865.1	861.2	859.5	857.3	856.1	853.9	853.9	851.7	850.6	848.9	843.3
12.5°	905.2	902.4	901.3	898.5	896.8	896.8	895.7	891.8	894.6	890.7	887.9
15°	953.7	953.1	948.1	949.8	949.2	948.7	949.2	945.9	945.3	945.3	942.0
17.5°	1014.4	1010.0	1010.5	1010.5	1011.7	1011.7	1007.2	1009.4	1010.0	1008.9	1007.8
20°	1085.8	1084.1	1085.8	1082.4	1085.8	1085.8	1088.0	1087.5	1088.0	1089.1	1089.1
22.5°	1162.2	1166.6	1167.2	1168.3	1164.4	1171.1	1171.1	1172.2	1175.0	1175.0	1176.1
25°	1254.7	1252.5	1249.7	1253.6	1254.7	1259.1	1260.3	1260.3	1264.7	1264.7	1266.4
27.5°	1331.6	1333.8	1333.3	1335.5	1334.4	1340.5	1342.7	1349.4	1347.8	1351.1	1355.6
30°	1410.8	1415.2	1413.0	1413.5	1416.3	1420.2	1424.7	1431.4	1432.5	1441.4	1443.6
32.5°	1502.2	1505.5	1508.3	1509.4	1509.4	1516.1	1523.3	1525.6	1537.3	1544.0	1551.8
35°	1618.1	1618.7	1620.3	1622.0	1620.9	1628.1	1635.4	1637.6	1649.9	1651.5	1667.7
37.5°	1667.1	1668.3	1675.0	1678.3	1680.5	1689.4	1702.8	1712.9	1726.2	1739.1	1757.4
40°	1728.5	1735.2	1741.3	1746.3	1754.7	1766.9	1787.5	1797.6	1817.6	1841.6	1859.4
42.5°	1805.9	1818.2	1822.7	1832.1	1852.8	1867.8	1888.4	1910.2	1936.9	1965.9	1987.1
45°	1897.9	1909.6	1926.3	1936.9	1960.9	1984.9	2017.7	2036.7	2064.0	2097.5	2120.9
47.5°	2009.4	2025.5	2042.3	2064.0	2092.4	2117.5	2150.4	2174.9	2202.2	2229.6	2255.2
50°	2148.2	2172.1	2194.4	2217.3	2255.2	2276.4	2308.7	2334.3	2360.0	2387.3	2410.7
52.5°	2334.9	2371.1	2399.6	2415.2	2466.4	2487.6	2527.2	2545.0	2566.2	2590.7	2620.8
55°	2742.4	2798.6	2846.6	2874.5	2952.5	2980.4	3031.6	3057.8	3043.3	3074.6	3128.6
57.5°	3920.7	3989.8	4047.2	4085.1	4164.8	4203.8	4206.6	4304.7	4246.7	4304.2	4312.5
60°	5636.9	5691.5	5677.6	5678.1	5653.0	5616.8	5686.5	5580.6	5625.2	5628.0	5528.2
62.5°	6787.9	6704.3	6665.3	6600.6	6525.3	6467.4	6427.8	6342.5	6274.5	6220.5	6115.1
65°	7058.8	6913.8	6785.6	6664.7	6553.8	6476.9	6393.2	6301.8	6195.4	6105.6	6003.1
67.5°	6796.8	6593.9	6403.8	6244.4	6092.8	5991.4	5870.4	5783.5	5649.7	5531.5	5453.5
70°	6037.1	5756.2	5534.3	5432.3	5281.8	5063.9	4948.5	4839.8	4757.9	4650.8	4603.5
72.5°	4235.0	3888.3	3717.2	3723.9	3571.2	3415.1	3419.0	3352.7	3246.8	3243.4	3227.3
75°	1556.2	1415.8	1317.1	1321.6	1264.7	1204.0	1220.7	1238.5	1204.0	1274.2	1165.5
77.5°	247.5	240.8	238.6	233.5	221.3	230.2	224.1	235.8	237.4	250.3	251.4
80°	157.7	151.1	149.4	146.6	146.0	146.0	144.9	144.9	144.9	145.5	144.4
82.5°	105.3	101.4	100.9	99.2	102.0	102.6	103.1	107.6	111.5	112.6	117.1
85°	57.4	54.6	54.6	53.5	55.7	56.3	61.3	67.4	75.2	78.6	85.8
87.5°	29.0	30.7	30.1	31.2	32.9	36.8	40.7	44.6	49.1	55.2	60.2
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: P146353
 CATALOG NUMBER: LDRL-T2-F04-E-8030

CANDELA DISTRIBUTION (continued):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	774.2	774.2	774.2	774.2	774.2	774.2	774.2	774.2	774.2	774.2	774.2
2.5°	772.5	772.0	772.0	770.9	770.9	770.3	769.2	768.1	763.1	756.9	753.0
5°	784.2	783.1	782.6	781.5	779.8	779.8	778.1	775.9	766.4	756.4	750.2
7.5°	808.2	807.7	806.0	803.8	801.5	799.3	798.2	797.1	782.6	773.1	768.6
10°	842.8	842.2	838.3	837.8	834.4	835.0	832.2	830.0	820.5	809.9	803.8
12.5°	886.8	889.0	886.8	881.8	882.9	881.2	878.4	875.7	867.3	858.9	849.5
15°	941.4	938.6	936.4	940.9	937.0	936.4	938.1	938.6	928.6	919.7	906.3
17.5°	1009.4	1009.4	1008.3	1009.4	1007.2	1008.9	1007.8	1008.9	1004.4	992.2	972.6
20°	1086.9	1091.4	1091.4	1089.7	1089.1	1092.5	1094.2	1088.0	1089.1	1078.5	1043.4
22.5°	1177.2	1180.5	1181.7	1180.0	1180.5	1185.0	1187.8	1183.3	1193.4	1176.1	1122.0
25°	1270.3	1275.3	1273.1	1273.6	1278.1	1283.1	1288.1	1283.7	1303.2	1276.4	1205.6
27.5°	1362.3	1366.7	1365.6	1368.9	1376.2	1382.9	1388.5	1386.8	1419.1	1384.0	1293.7
30°	1449.2	1459.8	1462.0	1465.9	1474.8	1486.0	1494.9	1494.4	1536.2	1488.8	1365.6
32.5°	1556.2	1567.9	1572.4	1580.8	1598.0	1605.8	1617.0	1618.1	1659.9	1580.8	1426.4
35°	1680.0	1691.7	1701.1	1707.3	1726.8	1736.3	1747.4	1752.4	1780.3	1666.6	1468.7
37.5°	1775.8	1785.9	1804.3	1817.1	1834.4	1853.3	1866.1	1872.3	1887.9	1740.2	1488.2
40°	1880.6	1902.4	1920.2	1939.7	1958.7	1973.7	1985.4	1994.9	1988.8	1801.5	1479.9
42.5°	2013.3	2036.1	2060.1	2076.8	2086.9	2106.9	2112.5	2119.2	2069.0	1829.3	1442.0
45°	2151.5	2169.9	2190.0	2202.2	2215.6	2225.7	2227.3	2227.9	2128.7	1813.2	1373.4
47.5°	2284.7	2300.3	2314.3	2321.0	2327.7	2328.2	2325.4	2321.0	2160.4	1758.6	1290.9
50°	2430.8	2440.2	2446.4	2446.9	2453.1	2441.4	2433.6	2412.9	2157.1	1675.0	1204.0
52.5°	2640.9	2638.7	2630.9	2630.3	2610.8	2588.5	2574.0	2544.5	2134.2	1584.7	1103.6
55°	3123.6	3102.4	3126.9	3064.5	3012.7	2978.1	2896.2	2836.5	2157.1	1500.5	988.2
57.5°	4283.5	4211.1	4218.9	4118.0	4007.6	3800.8	3678.8	3513.8	2336.6	1453.7	842.8
60°	5507.0	5387.7	5275.1	5096.2	4861.5	4599.0	4362.7	4104.6	2514.9	1396.3	687.8
62.5°	6012.0	5858.2	5662.5	5410.0	5108.5	4783.0	4456.3	4162.0	2416.8	1223.5	495.5
65°	5849.2	5665.3	5456.8	5127.4	4785.2	4406.7	4048.9	3737.8	2012.7	894.6	299.3
67.5°	5271.2	5112.9	4856.0	4544.9	4121.3	3741.7	3387.8	3100.2	1483.8	552.9	171.7
70°	4438.5	4219.4	3999.8	3701.1	3254.6	2896.7	2567.3	2313.2	941.4	273.1	126.5
72.5°	3063.4	2890.1	2714.5	2446.9	2113.6	1867.3	1584.1	1375.1	492.7	147.2	116.5
75°	1193.4	1174.4	1154.4	1032.8	919.7	736.9	647.1	583.6	205.1	127.6	114.8
77.5°	262.0	277.6	286.5	271.4	258.6	230.8	220.7	197.3	137.1	131.0	113.7
80°	144.4	144.4	144.4	146.0	143.2	143.2	141.6	138.8	128.2	131.0	111.5
82.5°	118.2	119.8	122.1	122.6	122.1	122.6	121.5	121.0	125.4	131.5	105.9
85°	90.3	95.9	99.2	103.7	108.1	110.9	112.0	112.6	115.4	124.9	92.5
87.5°	64.1	68.6	75.8	76.9	81.9	88.1	90.3	93.6	92.0	94.8	43.5
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: P146353
 CATALOG NUMBER: LDRL-T2-F04-E-8030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	774.2	774.2	774.2	774.2	774.2
2.5°	749.7	745.2	743.6	743.0	741.9
5°	745.2	742.4	740.2	738.5	739.7
7.5°	765.3	763.6	759.7	758.6	760.3
10°	801.0	797.1	791.5	792.0	791.5
12.5°	845.6	835.0	826.0	822.1	819.4
15°	891.3	870.6	852.2	843.9	840.5
17.5°	942.0	906.9	878.4	863.4	860.6
20°	995.5	947.0	910.2	892.4	889.6
22.5°	1057.4	990.5	943.7	919.1	915.2
25°	1117.6	1029.5	967.1	937.0	932.0
27.5°	1172.2	1059.0	981.0	945.3	940.3
30°	1217.9	1082.4	992.7	952.0	946.4
32.5°	1248.0	1095.3	996.6	952.6	945.9
35°	1257.5	1086.9	979.9	929.2	923.6
37.5°	1237.4	1052.9	935.3	877.9	873.4
40°	1191.7	989.9	865.1	805.4	799.9
42.5°	1120.4	910.2	783.7	720.7	715.7
45°	1041.2	824.9	697.3	634.3	629.3
47.5°	954.8	734.6	606.4	548.5	540.7
50°	860.1	636.5	513.9	457.1	449.8
52.5°	749.1	529.5	415.8	364.5	360.1
55°	619.3	421.9	331.1	293.7	289.3
57.5°	481.6	321.1	263.1	244.7	237.4
60°	349.5	244.1	209.6	200.7	196.8
62.5°	237.4	182.3	168.9	166.1	163.3
65°	161.1	142.7	138.8	139.3	137.7
67.5°	127.1	119.8	117.6	118.7	118.2
70°	111.5	105.9	105.3	106.5	105.9
72.5°	105.3	98.1	99.2	100.9	100.3
75°	102.6	94.8	97.0	98.1	95.3
77.5°	99.8	89.7	96.4	98.7	93.1
80°	95.9	85.3	100.9	99.8	89.2
82.5°	87.5	75.2	98.7	90.3	80.3
85°	71.3	56.3	110.9	79.7	58.5
87.5°	45.7	34.0	76.9	60.8	39.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)