

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: P146356

Luminaire Tested: **LDRL-T2-F04-E-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146356
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-7050
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (28) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10160.1 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

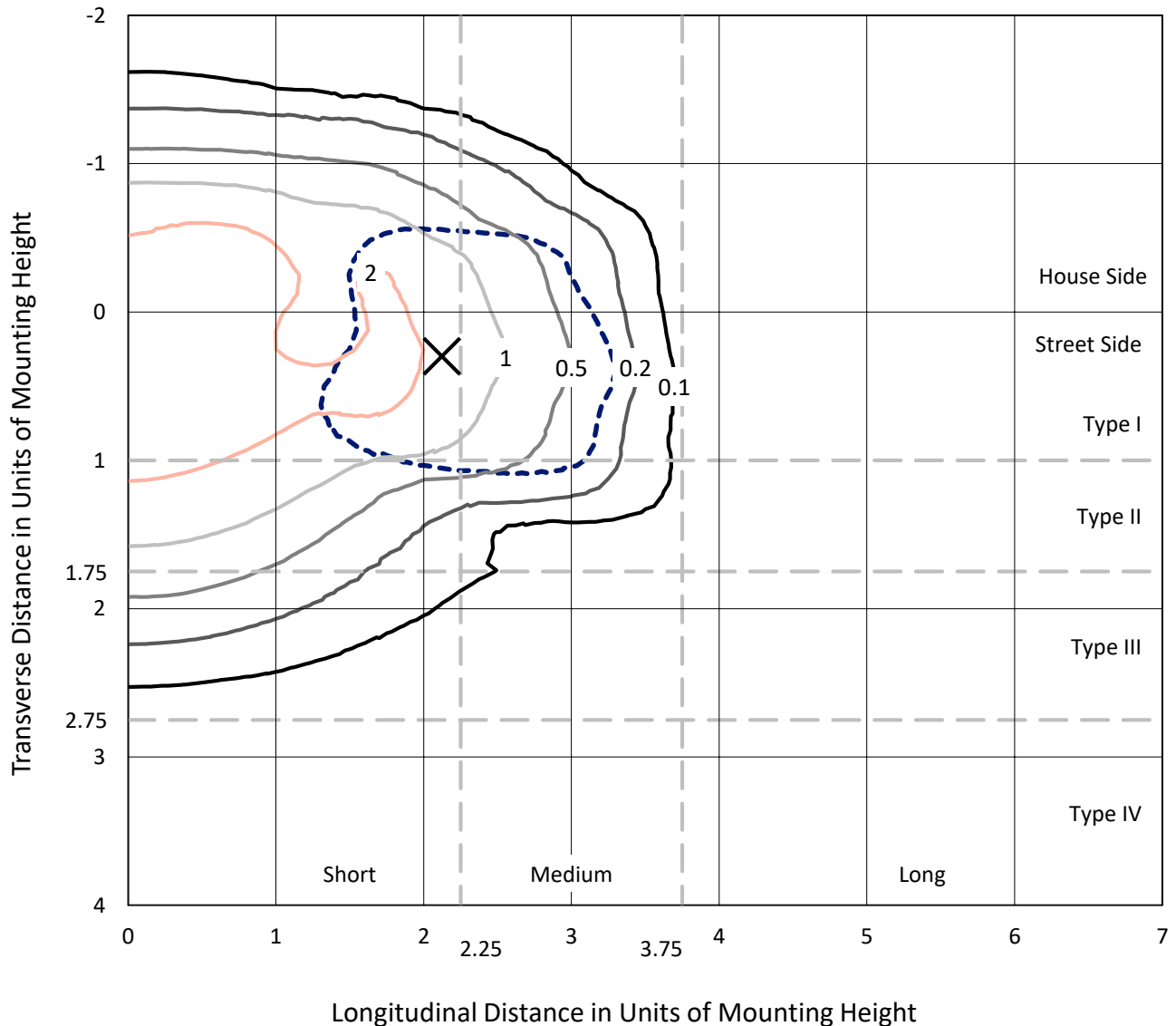
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P146356
 CATALOG NUMBER: LDRL-T2-F04-E-7050

Iso-Footcandle Lines of Horizontal Illumination

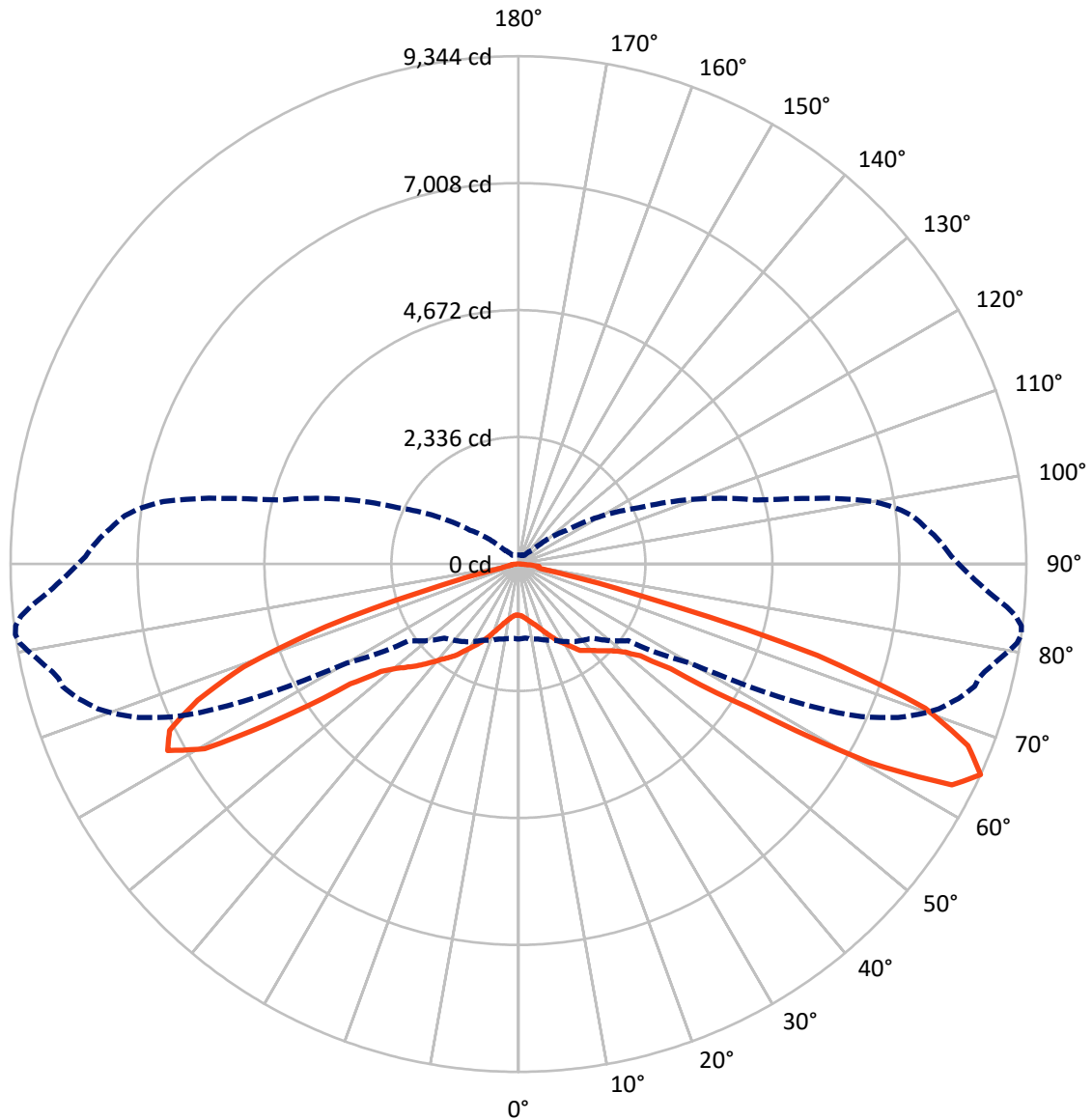
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P146356
CATALOG NUMBER: LDRL-T2-F04-E-7050

Luminous Intensity Polar Plot



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

REPORT NUMBER: P146356

CATALOG NUMBER: LDRL-T2-F04-E-7050

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3740.0	0.0	3740.0
	% Fixture	36.8	0.0	36.8
Street Side	Lumens	6420.1	0.0	6420.1
	% Fixture	63.2	0.0	63.2
Total	Lumens	10160.1	0.0	10160.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.5	0.9
10°-20°	336.5	3.3
20°-30°	667.4	6.6
30°-40°	1138.7	11.2
40°-50°	1707.5	16.8
50°-60°	2376.8	23.4
60°-70°	2730.6	26.9
70°-80°	942.3	9.3
80°-90°	164.8	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°	10160.1	100.0
0°-180°	10160.1	100.0



REPORT NUMBER: P146356

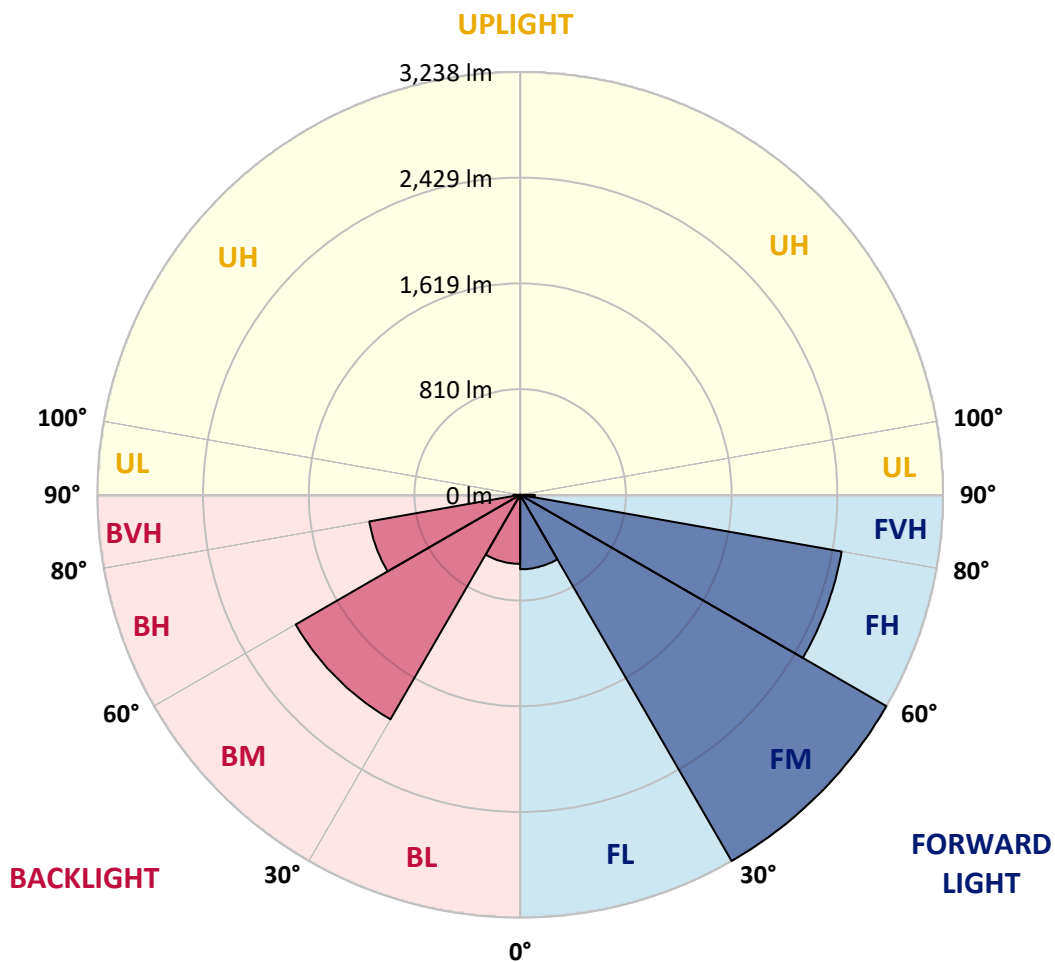
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	570.3	5.6			
FM (30°-60°)	3238.1	31.9			
FH (60°-80°)	2499.7	24.6			G2/5000
FVH (80°-90°)	111.9	1.1			G2/225
BL (0°-30°)	529.0	5.2	B2/1000		
BM (30°-60°)	1984.9	19.5	B2/2500		
BH (60°-80°)	1173.2	11.5	B3/2500		G3/2500
BVH (80°-90°)	52.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P146356
 CATALOG NUMBER: LDRL-T2-F04-E-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3
2.5°	993.5	992.8	992.1	989.4	988.0	982.6	977.2	973.8	971.1	972.4	968.4
5°	1051.1	1051.1	1048.3	1045.0	1040.9	1033.4	1019.9	1013.1	1011.7	1011.7	1007.0
7.5°	1110.0	1114.1	1106.6	1103.9	1097.1	1085.6	1070.0	1061.2	1058.5	1058.5	1054.4
10°	1184.6	1182.5	1174.4	1169.0	1155.4	1139.8	1118.8	1108.7	1104.6	1108.0	1101.2
12.5°	1263.2	1262.5	1250.3	1240.1	1221.1	1196.1	1168.3	1154.7	1152.0	1152.0	1148.0
15°	1343.1	1343.8	1330.2	1311.3	1281.5	1247.6	1216.4	1203.5	1200.1	1198.8	1194.0
17.5°	1404.1	1410.9	1397.3	1372.9	1336.3	1299.1	1265.9	1253.0	1252.3	1251.0	1245.5
20°	1438.7	1440.0	1432.6	1415.0	1382.4	1346.5	1323.5	1317.4	1316.7	1317.4	1318.7
22.5°	1437.3	1439.4	1436.6	1429.9	1408.9	1389.2	1386.5	1389.9	1391.9	1389.9	1394.6
25°	1426.5	1429.2	1429.2	1432.6	1427.2	1433.9	1455.6	1465.1	1465.8	1467.1	1477.3
27.5°	1450.2	1452.9	1452.2	1458.3	1463.1	1486.8	1526.1	1543.0	1545.1	1549.8	1559.3
30°	1560.0	1560.7	1548.5	1547.8	1552.5	1571.5	1611.5	1631.1	1629.1	1638.6	1644.7
32.5°	1733.5	1738.9	1726.7	1713.8	1711.8	1714.5	1721.9	1735.5	1733.5	1738.2	1746.3
35°	1931.3	1932.0	1925.2	1932.7	1936.8	1918.5	1883.2	1879.8	1869.0	1871.0	1873.7
37.5°	2112.9	2117.7	2130.6	2178.0	2205.1	2160.4	2091.3	2047.9	2041.1	2037.7	2014.0
40°	2283.0	2306.8	2337.9	2399.6	2436.9	2453.1	2354.9	2267.5	2243.7	2234.2	2197.0
42.5°	2482.3	2494.5	2531.1	2601.5	2651.0	2724.9	2659.1	2562.9	2535.1	2494.5	2447.7
45°	2651.0	2659.1	2682.2	2741.8	2845.5	2968.8	2976.3	2909.2	2887.5	2846.9	2778.4
47.5°	2764.2	2763.5	2780.4	2838.7	2973.6	3162.0	3273.8	3271.1	3246.0	3231.8	3173.5
50°	2808.2	2807.5	2818.4	2883.4	3030.5	3277.2	3523.8	3608.5	3607.9	3613.3	3583.5
52.5°	2816.4	2815.7	2817.0	2869.2	3019.0	3317.1	3704.1	3904.0	3933.1	3969.7	4002.9
55°	2755.4	2762.1	2777.1	2831.9	2975.6	3300.9	3837.6	4181.2	4251.0	4325.5	4446.1
57.5°	2614.4	2627.3	2678.8	2777.1	2929.5	3260.9	3930.4	4524.1	4665.7	4846.0	5172.6
60°	2412.5	2424.0	2495.1	2625.3	2795.3	3086.7	3822.7	4667.7	4936.8	5249.8	5919.4
62.5°	2055.3	2087.9	2125.8	2218.0	2396.2	2630.7	3338.8	4425.1	4841.9	5301.3	6223.0
65°	1380.4	1366.8	1429.9	1547.1	1742.9	1925.2	2459.9	3649.9	4177.1	4809.4	5949.9
67.5°	854.5	856.6	899.3	1013.8	1161.5	1303.1	1559.3	2326.4	2794.0	3395.1	4766.7
70°	706.1	714.3	748.8	855.2	981.3	1141.2	1157.4	1233.3	1442.7	1733.5	2944.4
72.5°	560.4	563.8	599.1	687.8	866.1	1085.6	1374.3	937.2	920.9	965.0	1493.6
75°	347.6	350.4	368.0	424.9	561.8	845.7	1513.2	1077.5	1009.7	952.8	962.3
77.5°	179.6	185.0	194.5	220.2	294.8	472.3	1191.3	1366.2	1288.9	1211.7	1060.5
80°	101.6	101.6	110.5	116.6	139.6	192.5	605.8	1478.7	1615.5	1648.7	1480.7
82.5°	45.4	50.8	68.4	73.2	80.0	88.1	200.6	888.4	1232.7	1539.6	1902.9
85°	27.1	26.4	43.4	47.4	49.5	42.0	75.2	362.5	576.0	843.0	1261.1
87.5°	10.8	11.5	18.3	19.7	23.0	16.9	28.5	77.9	114.5	166.0	234.5
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: P146356

CATALOG NUMBER: LDRL-T2-F04-E-7050

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3
2.5°	967.7	967.7	967.0	966.3	965.7	963.6	963.0	961.6	960.9	958.9	958.2
5°	1006.3	1004.3	1003.6	1002.3	1001.6	998.9	998.9	996.2	994.1	991.4	990.7
7.5°	1052.4	1049.7	1047.7	1046.3	1045.6	1040.9	1040.9	1036.8	1036.1	1032.8	1031.4
10°	1099.2	1097.1	1094.4	1093.1	1092.4	1089.7	1087.0	1084.3	1082.2	1080.2	1077.5
12.5°	1145.9	1141.9	1140.5	1138.5	1137.1	1135.1	1134.4	1128.3	1128.3	1126.3	1123.6
15°	1191.3	1190.6	1185.9	1185.2	1183.9	1184.6	1180.5	1181.2	1179.1	1175.7	1174.4
17.5°	1246.9	1242.2	1244.2	1240.8	1241.5	1240.1	1238.8	1238.1	1239.4	1238.8	1240.1
20°	1316.0	1314.7	1316.7	1312.0	1316.7	1317.4	1316.0	1319.4	1318.0	1319.4	1315.3
22.5°	1398.0	1393.3	1393.3	1396.7	1398.7	1404.8	1401.4	1404.1	1406.8	1408.9	1406.1
25°	1480.7	1479.3	1482.0	1484.8	1488.8	1494.2	1492.9	1493.6	1499.0	1502.4	1503.1
27.5°	1564.7	1564.7	1572.9	1572.9	1578.3	1584.4	1586.4	1589.1	1593.2	1597.9	1597.9
30°	1651.5	1651.5	1658.9	1665.7	1668.4	1675.9	1679.9	1684.0	1691.4	1692.8	1698.9
32.5°	1750.4	1752.4	1759.9	1764.0	1770.0	1778.9	1780.2	1785.0	1793.8	1796.5	1801.2
35°	1879.2	1872.4	1879.2	1886.6	1890.0	1887.3	1902.2	1908.3	1914.4	1917.8	1923.9
37.5°	2012.0	2000.5	2001.1	1999.8	1991.6	1996.4	1996.4	1995.0	1999.1	1998.4	2001.1
40°	2180.0	2159.7	2153.6	2140.7	2123.1	2113.6	2103.5	2102.1	2091.9	2096.0	2088.5
42.5°	2410.4	2379.9	2363.7	2323.7	2302.0	2276.3	2251.2	2229.5	2218.0	2205.1	2195.6
45°	2726.9	2691.0	2651.7	2587.3	2550.0	2498.5	2465.3	2415.9	2382.7	2354.9	2335.2
47.5°	3124.0	3063.7	3031.9	2971.5	2906.5	2828.6	2757.4	2688.3	2632.0	2571.0	2522.9
50°	3585.5	3510.3	3485.2	3405.2	3368.7	3281.2	3205.3	3119.9	3031.9	2939.7	2851.6
52.5°	3994.1	3985.3	3995.5	3942.0	3940.6	3896.5	3812.5	3712.9	3630.9	3538.1	3422.2
55°	4484.1	4571.5	4590.5	4583.0	4623.0	4621.6	4613.5	4603.3	4538.3	4406.8	4366.8
57.5°	5348.8	5447.0	5592.1	5657.8	5802.8	5819.7	5953.9	5901.7	6001.4	5974.3	5992.6
60°	6229.1	6530.6	6805.7	7015.1	7218.4	7403.4	7629.8	7726.7	7799.2	7912.4	8031.6
62.5°	6622.8	7002.9	7330.9	7629.1	7881.9	8116.3	8310.8	8495.2	8640.2	8770.3	8870.6
65°	6463.5	6904.7	7224.5	7535.6	7771.4	7989.6	8182.8	8321.0	8465.3	8583.2	8689.6
67.5°	5381.3	5968.8	6386.3	6739.3	7035.5	7284.2	7484.8	7675.2	7777.5	7906.3	7963.9
70°	3564.5	4318.1	4908.3	5385.4	5855.0	6136.9	6374.8	6596.3	6712.9	6817.3	6881.6
72.5°	1957.8	2472.8	3103.0	3670.2	4121.5	4491.5	4768.7	4978.8	5098.7	5188.2	5095.3
75°	1109.3	1363.5	1671.8	1985.5	2327.8	2588.7	2661.9	2751.3	2772.3	2726.2	2607.0
77.5°	1019.9	1019.9	1020.6	1013.1	1028.0	1046.3	1035.5	1017.2	934.5	916.2	890.4
80°	1326.2	1181.8	1027.3	843.7	687.8	580.1	546.9	549.6	576.0	627.5	684.4
82.5°	1879.8	1737.5	1514.6	1234.7	982.6	771.2	632.3	568.6	567.9	619.4	693.2
85°	1370.9	1382.4	1333.0	1179.1	940.6	740.7	598.4	459.5	414.7	414.7	409.3
87.5°	239.9	247.3	213.5	191.1	133.5	94.2	84.7	74.5	73.9	76.6	70.5
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: P146356

CATALOG NUMBER: LDRL-T2-F04-E-7050

CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3
2.5°	958.2	956.9	955.5	954.8	954.8	953.5	953.5	952.1	952.8	952.1	950.1
5°	989.4	988.7	986.7	983.3	982.6	979.9	980.6	977.9	977.9	976.5	973.1
7.5°	1028.7	1027.3	1026.0	1023.3	1020.6	1020.6	1015.8	1015.8	1012.4	1011.1	1008.4
10°	1075.4	1071.4	1069.3	1066.6	1066.0	1065.3	1060.5	1060.5	1056.5	1055.8	1053.8
12.5°	1121.5	1118.8	1116.8	1115.4	1112.0	1111.4	1109.3	1107.3	1105.3	1103.9	1103.2
15°	1171.7	1170.3	1168.3	1168.3	1168.3	1164.9	1162.9	1161.5	1161.5	1159.5	1160.8
17.5°	1236.7	1238.8	1236.1	1234.7	1232.7	1236.1	1232.7	1232.7	1234.7	1234.7	1230.0
20°	1317.4	1320.1	1317.4	1318.0	1316.7	1317.4	1318.0	1319.4	1322.1	1317.4	1318.0
22.5°	1406.8	1407.5	1409.5	1407.5	1410.9	1408.9	1412.9	1416.3	1415.6	1414.3	1415.0
25°	1504.4	1502.4	1503.1	1509.1	1513.9	1512.5	1513.2	1518.6	1517.3	1515.9	1516.6
27.5°	1603.3	1602.0	1604.0	1609.4	1614.9	1614.2	1612.8	1616.9	1616.9	1613.5	1614.9
30°	1701.6	1703.6	1707.0	1707.0	1709.7	1712.4	1710.4	1715.2	1715.8	1713.1	1716.5
32.5°	1805.3	1809.4	1808.0	1817.5	1817.5	1818.2	1820.2	1819.5	1826.3	1820.9	1822.9
35°	1930.0	1931.3	1939.5	1946.2	1950.3	1953.7	1953.7	1955.7	1959.1	1956.4	1960.5
37.5°	2005.9	2008.6	2011.3	2015.4	2015.4	2015.4	2018.8	2019.4	2021.5	2020.8	2022.1
40°	2089.2	2089.9	2090.6	2091.3	2094.0	2095.3	2091.9	2096.7	2093.3	2094.6	2096.7
42.5°	2190.2	2180.7	2182.1	2180.0	2184.8	2178.7	2180.0	2185.5	2182.7	2186.8	2186.8
45°	2307.4	2296.6	2287.1	2281.7	2281.7	2273.6	2274.9	2276.9	2280.3	2285.7	2295.2
47.5°	2480.9	2443.6	2425.3	2406.4	2396.9	2386.7	2390.1	2390.8	2392.1	2401.0	2424.7
50°	2764.9	2702.5	2654.4	2596.8	2575.1	2557.5	2547.3	2548.0	2548.0	2566.3	2590.0
52.5°	3313.8	3197.9	3083.4	2983.1	2897.0	2855.7	2807.5	2795.3	2796.0	2811.6	2827.9
55°	4261.8	4102.6	3981.3	3758.3	3690.5	3500.1	3399.8	3342.2	3297.5	3319.2	3342.9
57.5°	5962.7	5815.7	5719.5	5453.1	5210.5	5141.4	4976.7	4843.2	4788.3	4724.6	4728.7
60°	8049.3	7973.4	7949.0	7793.1	7705.7	7433.9	7412.3	7243.5	7084.3	6946.7	7002.9
62.5°	8947.8	8983.1	9011.5	9066.4	9087.4	9061.7	8952.6	8878.0	8747.2	8567.0	8456.5
65°	8720.8	8801.5	8922.8	9037.3	9174.2	9288.0	9344.3	9322.6	9204.7	9019.0	8787.2
67.5°	8005.2	8087.2	8191.6	8336.6	8546.0	8767.6	8922.1	9020.3	8926.8	8759.4	8523.6
70°	6878.3	6958.2	6961.6	7164.2	7389.9	7669.1	7942.9	8045.9	7939.5	7827.7	7630.5
72.5°	5151.6	5103.5	5148.2	5185.5	5314.2	5490.4	5756.0	5744.5	5581.9	5495.1	5192.2
75°	2421.3	2388.8	2341.3	2310.1	2280.3	2218.0	2247.8	2120.4	2076.4	2094.0	1832.4
77.5°	870.8	826.1	754.2	684.4	596.3	494.0	416.8	365.9	340.9	341.5	326.0
80°	730.5	752.2	742.0	672.9	574.0	466.9	349.7	265.0	226.3	210.1	199.9
82.5°	792.2	901.3	955.5	912.8	771.2	593.6	382.2	231.1	169.4	145.0	138.9
85°	439.1	439.8	426.2	407.3	361.2	248.0	165.3	109.8	88.1	78.6	75.9
87.5°	74.5	71.2	71.2	66.4	58.3	56.9	50.8	48.1	42.7	39.3	37.9
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: P146356

CATALOG NUMBER: LDRL-T2-F04-E-7050

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3
2.5°	948.0	946.7	946.0	945.3	945.3	944.7	944.7	943.3	941.9	941.3	940.6
5°	969.7	968.4	967.0	965.7	965.7	964.3	963.0	961.6	959.6	956.2	955.5
7.5°	1006.3	1003.6	1003.6	998.9	998.9	996.2	994.1	994.1	991.4	986.0	985.3
10°	1051.7	1047.0	1045.0	1042.2	1040.9	1038.2	1038.2	1035.5	1034.1	1032.1	1025.3
12.5°	1100.5	1097.1	1095.8	1092.4	1090.4	1090.4	1089.0	1084.3	1087.6	1082.9	1079.5
15°	1159.5	1158.8	1152.7	1154.7	1154.1	1153.4	1154.1	1150.0	1149.3	1149.3	1145.2
17.5°	1233.3	1227.9	1228.6	1228.6	1230.0	1230.0	1224.5	1227.2	1227.9	1226.6	1225.2
20°	1320.1	1318.0	1320.1	1316.0	1320.1	1320.1	1322.8	1322.1	1322.8	1324.1	1324.1
22.5°	1412.9	1418.3	1419.0	1420.4	1415.6	1423.8	1423.8	1425.1	1428.5	1428.5	1429.9
25°	1525.4	1522.7	1519.3	1524.1	1525.4	1530.8	1532.2	1532.2	1537.6	1537.6	1539.6
27.5°	1618.9	1621.6	1621.0	1623.7	1622.3	1629.8	1632.5	1640.6	1638.6	1642.6	1648.1
30°	1715.2	1720.6	1717.9	1718.5	1721.9	1726.7	1732.1	1740.2	1741.6	1752.4	1755.1
32.5°	1826.3	1830.4	1833.7	1835.1	1835.1	1843.2	1852.0	1854.8	1869.0	1877.1	1886.6
35°	1967.2	1967.9	1970.0	1972.0	1970.6	1979.4	1988.3	1991.0	2005.9	2007.9	2027.6
37.5°	2026.9	2028.2	2036.4	2040.4	2043.1	2054.0	2070.3	2082.5	2098.7	2114.3	2136.7
40°	2101.4	2109.6	2117.0	2123.1	2133.3	2148.2	2173.3	2185.5	2209.9	2239.0	2260.7
42.5°	2195.6	2210.5	2215.9	2227.5	2252.5	2270.8	2295.9	2322.3	2354.9	2390.1	2415.9
45°	2307.4	2321.7	2342.0	2354.9	2384.0	2413.1	2453.1	2476.2	2509.4	2550.0	2578.5
47.5°	2443.0	2462.6	2482.9	2509.4	2543.9	2574.4	2614.4	2644.2	2677.4	2710.6	2741.8
50°	2611.7	2640.8	2667.9	2695.7	2741.8	2767.6	2806.9	2838.0	2869.2	2902.4	2930.9
52.5°	2838.7	2882.8	2917.3	2936.3	2998.6	3024.4	3072.5	3094.2	3119.9	3149.8	3186.4
55°	3334.1	3402.5	3460.8	3494.7	3589.6	3623.5	3685.8	3717.6	3700.0	3738.0	3803.7
57.5°	4766.7	4850.7	4920.5	4966.6	5063.5	5110.9	5114.3	5233.6	5163.1	5232.9	5243.1
60°	6853.2	6919.6	6902.6	6903.3	6872.8	6828.8	6913.5	6784.7	6838.9	6842.3	6721.0
62.5°	8252.5	8150.9	8103.5	8024.9	7933.4	7862.9	7814.8	7711.1	7628.4	7562.7	7434.6
65°	8581.9	8405.7	8249.8	8102.8	7967.9	7874.4	7772.8	7661.6	7532.2	7423.1	7298.4
67.5°	8263.4	8016.7	7785.6	7591.8	7407.5	7284.2	7137.1	7031.4	6868.8	6725.1	6630.2
70°	7339.7	6998.2	6728.5	6604.5	6421.5	6156.5	6016.3	5884.1	5784.5	5654.4	5596.8
72.5°	5148.9	4727.4	4519.3	4527.4	4341.8	4152.0	4156.8	4076.1	3947.4	3943.3	3923.7
75°	1892.0	1721.3	1601.3	1606.7	1537.6	1463.7	1484.1	1505.8	1463.7	1549.1	1417.0
77.5°	300.9	292.7	290.0	283.9	269.0	279.9	272.4	286.7	288.7	304.3	305.6
80°	191.8	183.6	181.6	178.2	177.5	177.5	176.2	176.2	176.2	176.9	175.5
82.5°	128.1	123.3	122.7	120.6	124.0	124.7	125.4	130.8	135.5	136.9	142.3
85°	69.8	66.4	66.4	65.1	67.8	68.4	74.5	82.0	91.5	95.6	104.4
87.5°	35.2	37.3	36.6	37.9	40.0	44.7	49.5	54.2	59.6	67.1	73.2
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: P146356

CATALOG NUMBER: LDRL-T2-F04-E-7050

CANDELA DISTRIBUTION (continued):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3	941.3
2.5°	939.2	938.6	938.6	937.2	937.2	936.5	935.2	933.8	927.7	920.3	915.5
5°	953.5	952.1	951.4	950.1	948.0	948.0	946.0	943.3	931.8	919.6	912.1
7.5°	982.6	981.9	979.9	977.2	974.5	971.8	970.4	969.1	951.4	939.9	934.5
10°	1024.6	1023.9	1019.2	1018.5	1014.5	1015.1	1011.7	1009.0	997.5	984.6	977.2
12.5°	1078.2	1080.9	1078.2	1072.1	1073.4	1071.4	1068.0	1064.6	1054.4	1044.3	1032.8
15°	1144.6	1141.2	1138.5	1143.9	1139.1	1138.5	1140.5	1141.2	1129.0	1118.1	1101.9
17.5°	1227.2	1227.2	1225.9	1227.2	1224.5	1226.6	1225.2	1226.6	1221.1	1206.2	1182.5
20°	1321.4	1326.9	1326.9	1324.8	1324.1	1328.2	1330.2	1322.8	1324.1	1311.3	1268.6
22.5°	1431.2	1435.3	1436.6	1434.6	1435.3	1440.7	1444.1	1438.7	1450.9	1429.9	1364.1
25°	1544.4	1550.5	1547.8	1548.5	1553.9	1560.0	1566.1	1560.7	1584.4	1551.8	1465.8
27.5°	1656.2	1661.6	1660.3	1664.3	1673.1	1681.3	1688.1	1686.0	1725.3	1682.6	1572.9
30°	1761.9	1774.8	1777.5	1782.2	1793.1	1806.6	1817.5	1816.8	1867.6	1810.0	1660.3
32.5°	1892.0	1906.3	1911.7	1921.8	1942.9	1952.3	1965.9	1967.2	2018.1	1921.8	1734.1
35°	2042.5	2056.7	2068.2	2075.7	2099.4	2110.9	2124.5	2130.6	2164.4	2026.2	1785.6
37.5°	2159.0	2171.2	2193.6	2209.2	2230.2	2253.2	2268.8	2276.3	2295.2	2115.7	1809.4
40°	2286.4	2312.9	2334.5	2358.3	2381.3	2399.6	2413.8	2425.3	2417.9	2190.2	1799.2
42.5°	2447.7	2475.5	2504.6	2525.0	2537.2	2561.6	2568.3	2576.5	2515.5	2224.1	1753.1
45°	2615.8	2638.1	2662.5	2677.4	2693.7	2705.9	2707.9	2708.6	2588.0	2204.4	1669.8
47.5°	2777.7	2796.7	2813.6	2821.8	2829.9	2830.6	2827.2	2821.8	2626.6	2138.0	1569.5
50°	2955.3	2966.8	2974.3	2974.9	2982.4	2968.2	2958.7	2933.6	2622.5	2036.4	1463.7
52.5°	3210.8	3208.0	3198.6	3197.9	3174.2	3147.1	3129.4	3093.5	2594.8	1926.6	1341.8
55°	3797.6	3771.9	3801.7	3725.8	3662.8	3620.7	3521.1	3448.6	2622.5	1824.3	1201.5
57.5°	5207.8	5119.7	5129.2	5006.6	4872.4	4621.0	4472.6	4272.0	2840.8	1767.3	1024.6
60°	6695.3	6550.3	6413.4	6195.8	5910.6	5591.4	5304.0	4990.3	3057.6	1697.5	836.2
62.5°	7309.2	7122.2	6884.4	6577.4	6210.8	5815.0	5417.9	5060.1	2938.3	1487.5	602.4
65°	7111.4	6887.7	6634.3	6233.8	5817.7	5357.6	4922.5	4544.4	2447.0	1087.6	363.9
67.5°	6408.6	6216.2	5903.8	5525.6	5010.6	4549.1	4118.8	3769.1	1803.9	672.2	208.7
70°	5396.2	5129.9	4862.9	4499.7	3956.9	3521.8	3121.3	2812.3	1144.6	332.1	153.8
72.5°	3724.4	3513.7	3300.2	2974.9	2569.7	2270.2	1925.9	1671.8	599.1	178.9	141.6
75°	1450.9	1427.8	1403.4	1255.7	1118.1	895.9	786.8	709.5	249.4	155.2	139.6
77.5°	318.5	337.5	348.3	330.0	314.4	280.6	268.4	239.9	166.7	159.3	138.2
80°	175.5	175.5	175.5	177.5	174.2	174.2	172.1	168.7	155.9	159.3	135.5
82.5°	143.7	145.7	148.4	149.1	148.4	149.1	147.7	147.1	152.5	159.9	128.8
85°	109.8	116.6	120.6	126.0	131.5	134.9	136.2	136.9	140.3	151.8	112.5
87.5°	77.9	83.4	92.2	93.5	99.6	107.1	109.8	113.8	111.8	115.2	52.9
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: P146356

CATALOG NUMBER: LDRL-T2-F04-E-7050

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	941.3	941.3	941.3	941.3	941.3
2.5°	911.5	906.0	904.0	903.3	902.0
5°	906.0	902.6	899.9	897.9	899.3
7.5°	930.4	928.4	923.7	922.3	924.3
10°	973.8	969.1	962.3	963.0	962.3
12.5°	1028.0	1015.1	1004.3	999.5	996.2
15°	1083.6	1058.5	1036.1	1026.0	1021.9
17.5°	1145.2	1102.6	1068.0	1049.7	1046.3
20°	1210.3	1151.3	1106.6	1084.9	1081.5
22.5°	1285.5	1204.2	1147.3	1117.5	1112.7
25°	1358.7	1251.6	1175.7	1139.1	1133.0
27.5°	1425.1	1287.6	1192.7	1149.3	1143.2
30°	1480.7	1316.0	1206.9	1157.4	1150.7
32.5°	1517.3	1331.6	1211.7	1158.1	1150.0
35°	1528.8	1321.4	1191.3	1129.7	1122.9
37.5°	1504.4	1280.1	1137.1	1067.3	1061.9
40°	1448.8	1203.5	1051.7	979.2	972.4
42.5°	1362.1	1106.6	952.8	876.2	870.1
45°	1265.9	1002.9	847.8	771.2	765.1
47.5°	1160.8	893.2	737.3	666.8	657.3
50°	1045.6	773.9	624.8	555.7	546.9
52.5°	910.8	643.8	505.5	443.2	437.8
55°	752.9	513.0	402.5	357.1	351.7
57.5°	585.5	390.3	319.9	297.5	288.7
60°	424.9	296.8	254.8	244.0	239.2
62.5°	288.7	221.6	205.3	201.9	198.6
65°	195.8	173.5	168.7	169.4	167.4
67.5°	154.5	145.7	143.0	144.3	143.7
70°	135.5	128.8	128.1	129.4	128.8
72.5°	128.1	119.3	120.6	122.7	122.0
75°	124.7	115.2	117.9	119.3	115.9
77.5°	121.3	109.1	117.2	119.9	113.2
80°	116.6	103.7	122.7	121.3	108.4
82.5°	106.4	91.5	119.9	109.8	97.6
85°	86.7	68.4	134.9	96.9	71.2
87.5°	55.6	41.3	93.5	73.9	47.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)