

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: P146366

Luminaire Tested: **LDRL-T2-F05-E-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146366
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-F05-E-7050
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (35) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12700.1 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

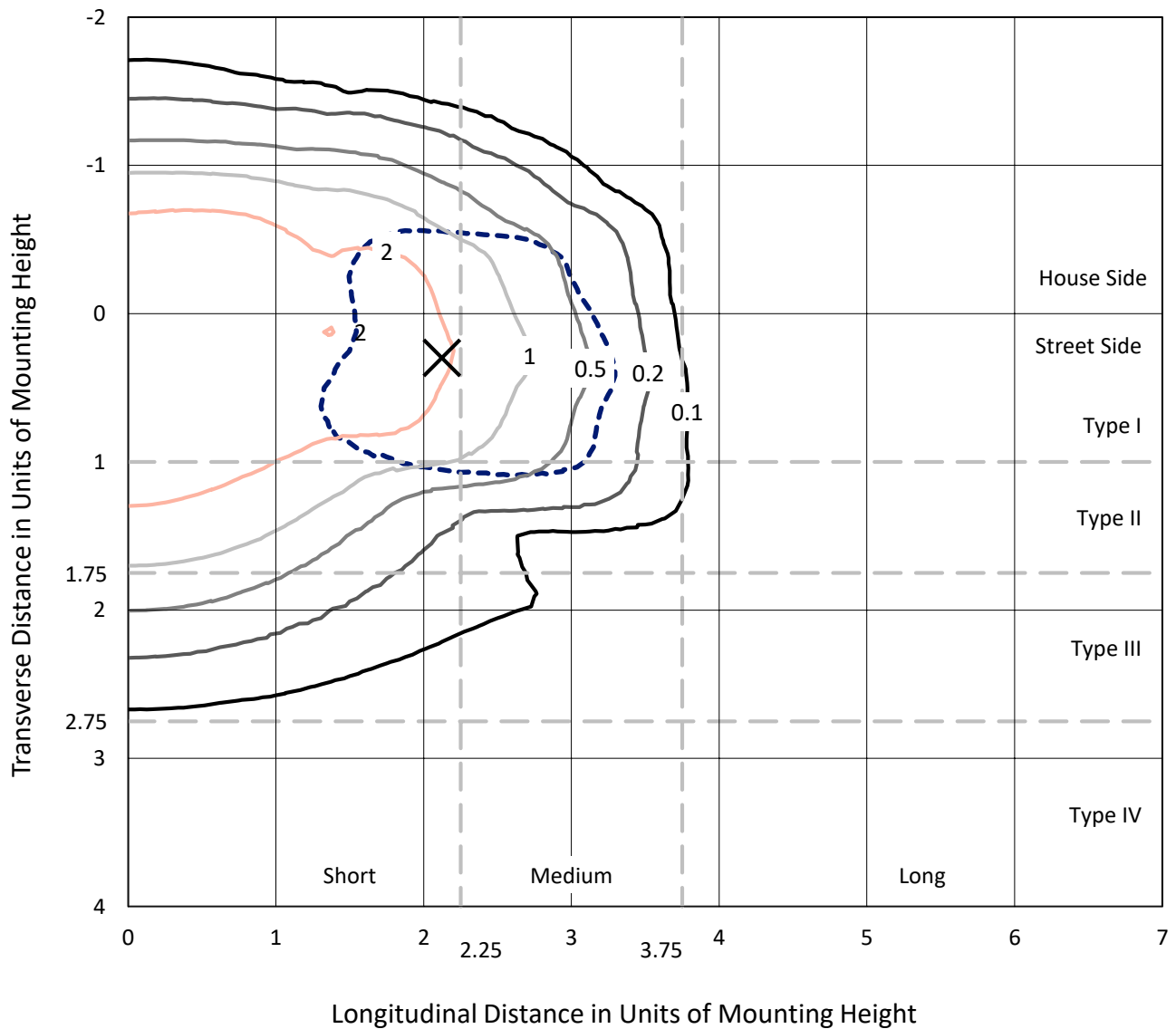
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P146366
 CATALOG NUMBER: LDRL-T2-F05-E-7050

Iso-Footcandle Lines of Horizontal Illumination

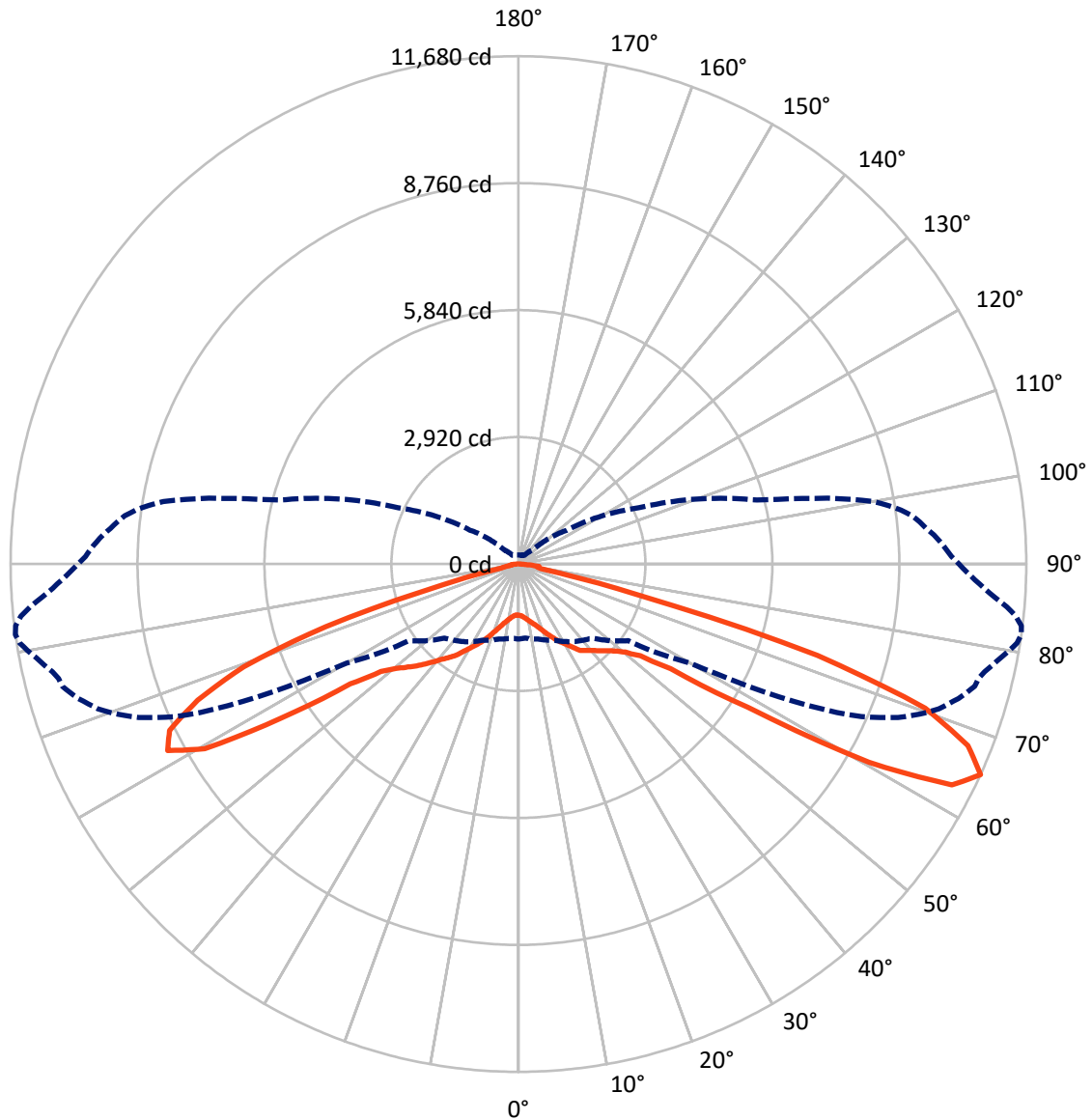
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P146366
CATALOG NUMBER: LDRL-T2-F05-E-7050

Luminous Intensity Polar Plot



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

REPORT NUMBER: P146366

CATALOG NUMBER: LDRL-T2-F05-E-7050

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4675.0	0.0	4675.0
	% Fixture	36.8	0.0	36.8
Street Side	Lumens	8025.1	0.0	8025.1
	% Fixture	63.2	0.0	63.2
Total	Lumens	12700.1	0.0	12700.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.4	0.9
10°-20°	420.6	3.3
20°-30°	834.2	6.6
30°-40°	1423.4	11.2
40°-50°	2134.4	16.8
50°-60°	2971.0	23.4
60°-70°	3413.2	26.9
70°-80°	1177.9	9.3
80°-90°	206.0	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°	12700.1	100.0
0°-180°	12700.1	100.0



REPORT NUMBER: P146366

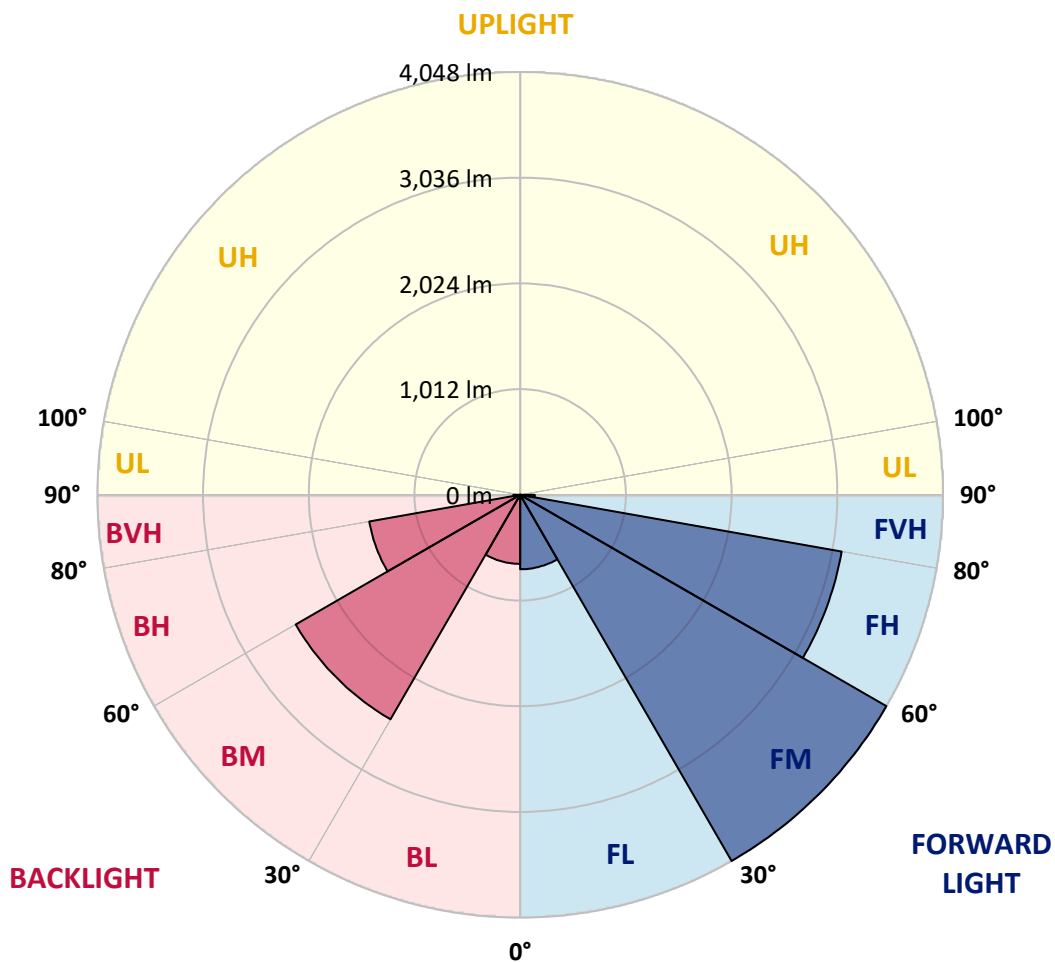
CATALOG NUMBER: LDRL-T2-F05-E-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	712.9	5.6			
FM	(30°-60°)	4047.7	31.9			
FH	(60°-80°)	3124.6	24.6			G2/5000
FVH	(80°-90°)	139.9	1.1			G2/225
BL	(0°-30°)	661.3	5.2	B2/1000		
BM	(30°-60°)	2481.1	19.5	B2/2500		
BH	(60°-80°)	1466.5	11.5	B3/2500		G3/2500
BVH	(80°-90°)	66.1	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: P146366
 CATALOG NUMBER: LDRL-T2-F05-E-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6
2.5°	1241.8	1241.0	1240.1	1236.7	1235.0	1228.3	1221.5	1217.2	1213.9	1215.6	1210.5
5°	1313.8	1313.8	1310.4	1306.2	1301.1	1291.8	1274.8	1266.4	1264.7	1264.7	1258.8
7.5°	1387.5	1392.6	1383.3	1379.9	1371.4	1357.0	1337.5	1326.5	1323.1	1323.1	1318.0
10°	1480.7	1478.1	1468.0	1461.2	1444.3	1424.8	1398.5	1385.8	1380.7	1385.0	1376.5
12.5°	1578.9	1578.1	1562.9	1550.1	1526.4	1495.1	1460.4	1443.4	1440.0	1440.0	1434.9
15°	1678.9	1679.8	1662.8	1639.1	1601.8	1559.5	1520.5	1504.4	1500.2	1498.5	1492.5
17.5°	1755.1	1763.6	1746.7	1716.2	1670.4	1623.8	1582.3	1566.2	1565.4	1563.7	1556.9
20°	1798.3	1800.0	1790.7	1768.7	1728.0	1683.1	1654.3	1646.7	1645.9	1646.7	1648.4
22.5°	1796.6	1799.2	1795.8	1787.3	1761.1	1736.5	1733.1	1737.4	1739.9	1737.4	1743.3
25°	1783.1	1786.5	1786.5	1790.7	1783.9	1792.4	1819.5	1831.4	1832.2	1833.9	1846.6
27.5°	1812.7	1816.1	1815.3	1822.9	1828.8	1858.5	1907.6	1928.8	1931.3	1937.3	1949.1
30°	1950.0	1950.8	1935.6	1934.7	1940.7	1964.4	2014.3	2038.9	2036.4	2048.2	2055.9
32.5°	2166.8	2173.6	2158.3	2142.3	2139.7	2143.1	2152.4	2169.4	2166.8	2172.7	2182.9
35°	2414.2	2415.0	2406.5	2415.9	2420.9	2398.1	2354.0	2349.8	2336.2	2338.8	2342.2
37.5°	2641.2	2647.1	2663.2	2722.5	2756.4	2700.5	2614.1	2559.9	2551.4	2547.2	2517.5
40°	2853.8	2883.4	2922.4	2999.5	3046.1	3066.4	2943.6	2834.3	2804.7	2792.8	2746.2
42.5°	3102.8	3118.1	3163.8	3251.9	3313.8	3406.1	3323.9	3203.6	3168.9	3118.1	3059.6
45°	3313.8	3323.9	3352.7	3427.3	3556.9	3711.0	3720.4	3636.5	3609.4	3558.6	3473.0
47.5°	3455.2	3454.4	3475.6	3548.4	3717.0	3952.5	4092.2	4088.8	4057.5	4039.7	3966.9
50°	3510.3	3509.4	3523.0	3604.3	3788.1	4096.5	4404.8	4510.7	4509.8	4516.6	4479.3
52.5°	3520.4	3519.6	3521.3	3586.5	3773.7	4146.4	4630.1	4880.0	4916.4	4962.2	5003.7
55°	3444.2	3452.7	3471.3	3539.9	3719.5	4126.1	4797.0	5226.5	5313.7	5406.9	5557.7
57.5°	3268.0	3284.1	3348.5	3471.3	3661.9	4076.1	4913.0	5655.1	5832.1	6057.4	6465.7
60°	3015.6	3030.0	3118.9	3281.6	3494.2	3858.4	4778.4	5834.7	6170.9	6562.3	7399.2
62.5°	2569.2	2609.8	2657.3	2772.5	2995.3	3288.3	4173.5	5531.4	6052.4	6626.7	7778.7
65°	1725.5	1708.6	1787.3	1933.9	2178.7	2406.5	3074.9	4562.3	5221.4	6011.7	7437.3
67.5°	1068.2	1070.7	1124.1	1267.2	1451.9	1628.9	1949.1	2908.0	3492.5	4243.8	5958.3
70°	882.7	892.8	936.0	1069.0	1226.6	1426.5	1446.8	1541.7	1803.4	2166.8	3680.5
72.5°	700.5	704.8	748.8	859.8	1082.6	1357.0	1717.9	1171.5	1151.2	1206.2	1867.0
75°	434.5	437.9	460.0	531.1	702.2	1057.2	1891.5	1346.9	1262.1	1191.0	1202.8
77.5°	224.5	231.3	243.1	275.3	368.5	590.4	1489.2	1707.7	1611.1	1514.6	1325.7
80°	127.1	127.1	138.1	145.7	174.5	240.6	757.3	1848.3	2019.4	2060.9	1850.9
82.5°	56.8	63.5	85.6	91.5	100.0	110.1	250.7	1110.5	1540.8	1924.6	2378.6
85°	33.9	33.0	54.2	59.3	61.8	52.5	94.0	453.2	720.0	1053.8	1576.4
87.5°	13.6	14.4	22.9	24.6	28.8	21.2	35.6	97.4	143.2	207.5	293.1
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: P146366
 CATALOG NUMBER: LDRL-T2-F05-E-7050

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6
2.5°	1209.6	1209.6	1208.8	1207.9	1207.1	1204.5	1203.7	1202.0	1201.2	1198.6	1197.8
5°	1257.9	1255.4	1254.5	1252.8	1252.0	1248.6	1248.6	1245.2	1242.7	1239.3	1238.4
7.5°	1315.5	1312.1	1309.6	1307.9	1307.0	1301.1	1301.1	1296.0	1295.2	1290.9	1289.2
10°	1374.0	1371.4	1368.0	1366.3	1365.5	1362.1	1358.7	1355.3	1352.8	1350.2	1346.9
12.5°	1432.4	1427.3	1425.6	1423.1	1421.4	1418.9	1418.0	1410.4	1410.4	1407.8	1404.5
15°	1489.2	1488.3	1482.4	1481.5	1479.8	1480.7	1475.6	1476.5	1473.9	1469.7	1468.0
17.5°	1558.6	1552.7	1555.2	1551.0	1551.8	1550.1	1548.5	1547.6	1549.3	1548.5	1550.1
20°	1645.0	1643.3	1645.9	1639.9	1645.9	1646.7	1645.0	1649.3	1647.6	1649.3	1644.2
22.5°	1747.5	1741.6	1741.6	1745.8	1748.4	1756.0	1751.8	1755.1	1758.5	1761.1	1757.7
25°	1850.9	1849.2	1852.6	1855.9	1861.0	1867.8	1866.1	1867.0	1873.7	1878.0	1878.8
27.5°	1955.9	1955.9	1966.1	1966.1	1972.8	1980.5	1983.0	1986.4	1991.5	1997.4	1997.4
30°	2064.3	2064.3	2073.6	2082.1	2085.5	2094.8	2099.9	2105.0	2114.3	2116.0	2123.6
32.5°	2188.0	2190.5	2199.9	2204.9	2212.6	2223.6	2225.3	2231.2	2242.2	2245.6	2251.5
35°	2348.9	2340.5	2348.9	2358.3	2362.5	2359.1	2377.7	2385.4	2393.0	2397.2	2404.8
37.5°	2515.0	2500.6	2501.4	2499.7	2489.6	2495.5	2495.5	2493.8	2498.9	2498.0	2501.4
40°	2725.0	2699.6	2692.0	2675.9	2653.9	2642.0	2629.3	2627.6	2614.9	2620.0	2610.7
42.5°	3013.0	2974.9	2954.6	2904.6	2877.5	2845.3	2814.0	2786.9	2772.5	2756.4	2744.5
45°	3408.6	3363.7	3314.6	3234.1	3187.5	3123.2	3081.7	3019.8	2978.3	2943.6	2919.0
47.5°	3905.0	3829.6	3789.8	3714.4	3633.1	3535.7	3446.8	3360.3	3290.0	3213.8	3153.7
50°	4481.9	4387.9	4356.5	4256.6	4210.8	4101.5	4006.7	3899.9	3789.8	3674.6	3564.5
52.5°	4992.7	4981.7	4994.4	4927.4	4925.7	4870.7	4765.6	4641.1	4538.6	4422.6	4277.7
55°	5605.1	5714.4	5738.1	5728.8	5778.7	5777.1	5766.9	5754.2	5672.9	5508.5	5458.6
57.5°	6686.0	6808.8	6990.1	7072.2	7253.5	7274.7	7442.4	7377.2	7501.7	7467.8	7490.7
60°	7786.3	8163.3	8507.2	8768.9	9023.0	9254.3	9537.2	9658.4	9749.0	9890.5	10039.5
62.5°	8278.5	8753.7	9163.7	9536.4	9852.3	10145.4	10388.5	10618.9	10800.2	10962.9	11088.2
65°	8079.4	8630.9	9030.7	9419.5	9714.3	9987.0	10228.4	10401.2	10581.7	10729.1	10862.1
67.5°	6726.6	7461.0	7982.8	8424.2	8794.3	9105.2	9356.0	9594.0	9721.9	9882.8	9954.8
70°	4455.6	5397.6	6135.4	6731.7	7318.7	7671.1	7968.4	8245.4	8391.1	8521.6	8602.1
72.5°	2447.2	3091.0	3878.8	4587.8	5151.9	5614.4	5960.9	6223.5	6373.4	6485.2	6369.2
75°	1386.7	1704.3	2089.7	2481.9	2909.7	3235.8	3327.3	3439.1	3465.4	3407.8	3258.7
77.5°	1274.8	1274.8	1275.7	1266.4	1285.0	1307.9	1294.3	1271.5	1168.1	1145.2	1113.1
80°	1657.7	1477.3	1284.2	1054.6	859.8	725.1	683.6	687.0	720.0	784.4	855.5
82.5°	2349.8	2171.9	1893.2	1543.4	1228.3	964.0	790.3	710.7	709.8	774.2	866.6
85°	1713.6	1728.0	1666.2	1473.9	1175.7	925.9	748.0	574.3	518.4	518.4	511.6
87.5°	299.9	309.2	266.8	238.9	166.9	117.7	105.9	93.2	92.3	95.7	88.1
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: P146366

CATALOG NUMBER: LDRL-T2-F05-E-7050

CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6
2.5°	1197.8	1196.1	1194.4	1193.5	1193.5	1191.8	1191.8	1190.1	1191.0	1190.1	1187.6
5°	1236.7	1235.9	1233.3	1229.1	1228.3	1224.9	1225.7	1222.3	1222.3	1220.6	1216.4
7.5°	1285.9	1284.2	1282.5	1279.1	1275.7	1275.7	1269.8	1269.8	1265.5	1263.8	1260.4
10°	1344.3	1339.2	1336.7	1333.3	1332.4	1331.6	1325.7	1325.7	1320.6	1319.7	1317.2
12.5°	1401.9	1398.5	1396.0	1394.3	1390.1	1389.2	1386.7	1384.1	1381.6	1379.9	1379.0
15°	1464.6	1462.9	1460.4	1460.4	1460.4	1456.1	1453.6	1451.9	1451.9	1449.3	1451.0
17.5°	1545.9	1548.5	1545.1	1543.4	1540.8	1545.1	1540.8	1540.8	1543.4	1543.4	1537.4
20°	1646.7	1650.1	1646.7	1647.6	1645.9	1646.7	1647.6	1649.3	1652.6	1646.7	1647.6
22.5°	1758.5	1759.4	1761.9	1759.4	1763.6	1761.1	1766.2	1770.4	1769.5	1767.8	1768.7
25°	1880.5	1878.0	1878.8	1886.4	1892.4	1890.7	1891.5	1898.3	1896.6	1894.9	1895.8
27.5°	2004.2	2002.5	2005.0	2011.8	2018.6	2017.7	2016.0	2021.1	2021.1	2016.9	2018.6
30°	2127.0	2129.5	2133.8	2133.8	2137.2	2140.6	2138.0	2143.9	2144.8	2141.4	2145.6
32.5°	2256.6	2261.7	2260.0	2271.9	2271.9	2272.7	2275.2	2274.4	2282.9	2276.1	2278.6
35°	2412.5	2414.2	2424.3	2432.8	2437.9	2442.1	2442.1	2444.7	2448.9	2445.5	2450.6
37.5°	2507.3	2510.7	2514.1	2519.2	2519.2	2519.2	2523.4	2524.3	2526.8	2526.0	2527.7
40°	2611.5	2612.4	2613.2	2614.1	2617.5	2619.2	2614.9	2620.9	2616.6	2618.3	2620.9
42.5°	2737.7	2725.9	2727.6	2725.0	2731.0	2723.3	2725.0	2731.8	2728.4	2733.5	2733.5
45°	2884.3	2870.7	2858.9	2852.1	2852.1	2841.9	2843.6	2846.2	2850.4	2857.2	2869.0
47.5°	3101.1	3054.6	3031.7	3008.0	2996.1	2983.4	2987.6	2988.5	2990.2	3001.2	3030.8
50°	3456.1	3378.1	3318.0	3246.0	3218.9	3196.9	3184.2	3185.0	3185.0	3207.9	3237.5
52.5°	4142.2	3997.3	3854.2	3728.8	3621.2	3569.6	3509.4	3494.2	3495.0	3514.5	3534.8
55°	5327.3	5128.2	4976.6	4697.9	4613.2	4375.1	4249.8	4177.8	4121.9	4149.0	4178.6
57.5°	7453.4	7269.6	7149.3	6816.4	6513.2	6426.8	6220.9	6054.0	5985.4	5905.8	5910.9
60°	10061.6	9966.7	9936.2	9741.4	9632.1	9292.4	9265.3	9054.4	8855.3	8683.4	8753.7
62.5°	11184.8	11228.8	11264.4	11333.0	11359.3	11327.1	11190.7	11097.5	10934.1	10708.7	10570.7
65°	10901.0	11001.8	11153.4	11296.6	11467.7	11610.0	11680.3	11653.2	11505.8	11273.7	10984.0
67.5°	10006.5	10109.0	10239.5	10420.7	10682.5	10959.5	11152.6	11275.4	11158.5	10949.3	10654.5
70°	8597.8	8697.8	8702.0	8955.3	9237.4	9586.4	9928.6	10057.3	9924.3	9784.6	9538.1
72.5°	6439.5	6379.3	6435.2	6481.8	6642.8	6863.0	7195.1	7180.7	6977.4	6868.9	6490.3
75°	3026.6	2985.9	2926.6	2887.7	2850.4	2772.5	2809.7	2650.5	2595.4	2617.5	2290.5
77.5°	1088.5	1032.6	942.8	855.5	745.4	617.5	521.0	457.4	426.1	426.9	407.4
80°	913.1	940.3	927.5	841.1	717.5	583.6	437.1	331.2	282.9	262.6	249.9
82.5°	990.2	1126.6	1194.4	1141.0	964.0	742.0	477.8	288.9	211.8	181.3	173.7
85°	548.9	549.8	532.8	509.1	451.5	310.0	206.7	137.2	110.1	98.3	94.9
87.5°	93.2	88.9	88.9	83.0	72.8	71.2	63.5	60.1	53.4	49.1	47.4
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: P146366

CATALOG NUMBER: LDRL-T2-F05-E-7050

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6
2.5°	1185.1	1183.4	1182.5	1181.7	1181.7	1180.8	1180.8	1179.1	1177.4	1176.6	1175.7
5°	1212.2	1210.5	1208.8	1207.1	1207.1	1205.4	1203.7	1202.0	1199.5	1195.2	1194.4
7.5°	1257.9	1254.5	1254.5	1248.6	1248.6	1245.2	1242.7	1242.7	1239.3	1232.5	1231.6
10°	1314.7	1308.7	1306.2	1302.8	1301.1	1297.7	1297.7	1294.3	1292.6	1290.1	1281.6
12.5°	1375.7	1371.4	1369.7	1365.5	1362.9	1362.9	1361.3	1355.3	1359.6	1353.6	1349.4
15°	1449.3	1448.5	1440.9	1443.4	1442.6	1441.7	1442.6	1437.5	1436.6	1436.6	1431.6
17.5°	1541.7	1534.9	1535.7	1535.7	1537.4	1537.4	1530.7	1534.1	1534.9	1533.2	1531.5
20°	1650.1	1647.6	1650.1	1645.0	1650.1	1650.1	1653.5	1652.6	1653.5	1655.2	1655.2
22.5°	1766.2	1772.9	1773.8	1775.5	1769.5	1779.7	1779.7	1781.4	1785.6	1785.6	1787.3
25°	1906.8	1903.4	1899.1	1905.1	1906.8	1913.5	1915.2	1915.2	1922.0	1922.0	1924.6
27.5°	2023.7	2027.1	2026.2	2029.6	2027.9	2037.2	2040.6	2050.8	2048.2	2053.3	2060.1
30°	2143.9	2150.7	2147.3	2148.2	2152.4	2158.3	2165.1	2175.3	2177.0	2190.5	2193.9
32.5°	2282.9	2288.0	2292.2	2293.9	2293.9	2304.0	2315.1	2318.4	2336.2	2346.4	2358.3
35°	2459.1	2459.9	2462.4	2465.0	2463.3	2474.3	2485.3	2488.7	2507.3	2509.9	2534.5
37.5°	2533.6	2535.3	2545.5	2550.5	2553.9	2567.5	2587.8	2603.1	2623.4	2642.9	2670.8
40°	2626.8	2636.9	2646.3	2653.9	2666.6	2685.2	2716.6	2731.8	2762.3	2798.7	2825.8
42.5°	2744.5	2763.2	2769.9	2784.3	2815.7	2838.6	2869.9	2902.9	2943.6	2987.6	3019.8
45°	2884.3	2902.1	2927.5	2943.6	2980.0	3016.4	3066.4	3095.2	3136.7	3187.5	3223.1
47.5°	3053.7	3078.3	3103.7	3136.7	3179.9	3218.0	3268.0	3305.3	3346.8	3388.3	3427.3
50°	3264.6	3301.1	3334.9	3369.7	3427.3	3459.5	3508.6	3547.6	3586.5	3628.0	3663.6
52.5°	3548.4	3603.5	3646.7	3670.4	3748.3	3780.5	3840.6	3867.7	3899.9	3937.2	3982.9
55°	4167.6	4253.2	4326.0	4368.4	4487.0	4529.3	4607.2	4647.1	4625.0	4672.5	4754.6
57.5°	5958.3	6063.4	6150.6	6208.2	6329.3	6388.6	6392.9	6542.0	6453.9	6541.1	6553.8
60°	8566.5	8649.5	8628.3	8629.2	8591.0	8536.0	8641.9	8480.9	8548.7	8552.9	8401.3
62.5°	10315.7	10188.6	10129.3	10031.1	9916.7	9828.6	9768.5	9638.9	9535.5	9453.4	9293.3
65°	10727.4	10507.1	10312.3	10128.5	9959.9	9843.0	9716.0	9577.0	9415.2	9278.9	9123.0
67.5°	10329.2	10020.9	9732.1	9489.8	9259.4	9105.2	8921.4	8789.3	8586.0	8406.4	8287.8
70°	9174.7	8747.7	8410.6	8255.6	8026.9	7695.7	7520.3	7355.2	7230.6	7068.0	6996.0
72.5°	6436.1	5909.2	5649.1	5659.3	5427.2	5190.0	5196.0	5095.2	4934.2	4929.1	4904.6
75°	2365.0	2151.6	2001.6	2008.4	1922.0	1829.7	1855.1	1882.2	1829.7	1936.4	1771.2
77.5°	376.1	365.9	362.5	354.9	336.3	349.8	340.5	358.3	360.9	380.3	382.0
80°	239.7	229.6	227.0	222.8	221.9	221.9	220.2	220.2	220.2	221.1	219.4
82.5°	160.1	154.2	153.3	150.8	155.0	155.9	156.7	163.5	169.4	171.1	177.9
85°	87.2	83.0	83.0	81.3	84.7	85.6	93.2	102.5	114.4	119.4	130.4
87.5°	44.0	46.6	45.7	47.4	50.0	55.9	61.8	67.8	74.5	83.9	91.5
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: P146366
 CATALOG NUMBER: LDRL-T2-F05-E-7050

CANDELA DISTRIBUTION (continued):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6
2.5°	1174.0	1173.2	1173.2	1171.5	1171.5	1170.7	1169.0	1167.3	1159.6	1150.3	1144.4
5°	1191.8	1190.1	1189.3	1187.6	1185.1	1185.1	1182.5	1179.1	1164.7	1149.5	1140.2
7.5°	1228.3	1227.4	1224.9	1221.5	1218.1	1214.7	1213.0	1211.3	1189.3	1174.9	1168.1
10°	1280.8	1279.9	1274.0	1273.2	1268.1	1268.9	1264.7	1261.3	1246.9	1230.8	1221.5
12.5°	1347.7	1351.1	1347.7	1340.1	1341.8	1339.2	1335.0	1330.8	1318.0	1305.3	1290.9
15°	1430.7	1426.5	1423.1	1429.9	1423.9	1423.1	1425.6	1426.5	1411.2	1397.7	1377.3
17.5°	1534.1	1534.1	1532.4	1534.1	1530.7	1533.2	1531.5	1533.2	1526.4	1507.8	1478.1
20°	1651.8	1658.6	1658.6	1656.0	1655.2	1660.3	1662.8	1653.5	1655.2	1639.1	1585.7
22.5°	1789.0	1794.1	1795.8	1793.3	1794.1	1800.9	1805.1	1798.3	1813.6	1787.3	1705.2
25°	1930.5	1938.1	1934.7	1935.6	1942.3	1950.0	1957.6	1950.8	1980.5	1939.8	1832.2
27.5°	2070.3	2077.0	2075.3	2080.4	2091.4	2101.6	2110.1	2107.5	2156.7	2103.3	1966.1
30°	2202.4	2218.5	2221.9	2227.8	2241.4	2258.3	2271.9	2271.0	2334.5	2262.5	2075.3
32.5°	2365.0	2382.8	2389.6	2402.3	2428.6	2440.4	2457.4	2459.1	2522.6	2402.3	2167.7
35°	2553.1	2570.9	2585.3	2594.6	2624.2	2638.6	2655.6	2663.2	2705.6	2532.8	2232.0
37.5°	2698.8	2714.0	2742.0	2761.5	2787.7	2816.5	2836.0	2845.3	2869.0	2644.6	2261.7
40°	2858.0	2891.1	2918.2	2947.8	2976.6	2999.5	3017.3	3031.7	3022.4	2737.7	2249.0
42.5°	3059.6	3094.4	3130.8	3156.2	3171.5	3201.9	3210.4	3220.6	3144.3	2780.1	2191.4
45°	3269.7	3297.7	3328.2	3346.8	3367.1	3382.4	3384.9	3385.8	3235.0	2755.5	2087.2
47.5°	3472.2	3495.9	3517.1	3527.2	3537.4	3538.2	3534.0	3527.2	3283.3	2672.5	1961.8
50°	3694.1	3708.5	3717.8	3718.7	3728.0	3710.2	3698.3	3667.0	3278.2	2545.5	1829.7
52.5°	4013.4	4010.1	3998.2	3997.3	3967.7	3933.8	3911.8	3866.9	3243.5	2408.2	1677.2
55°	4747.0	4714.8	4752.1	4657.2	4578.4	4525.9	4401.4	4310.8	3278.2	2280.3	1501.9
57.5°	6509.8	6399.7	6411.5	6258.2	6090.5	5776.2	5590.7	5340.0	3550.9	2209.2	1280.8
60°	8369.1	8187.8	8016.7	7744.8	7388.2	6989.2	6630.1	6237.9	3822.0	2121.9	1045.3
62.5°	9136.6	8902.8	8605.4	8221.7	7763.4	7268.8	6772.4	6325.1	3672.9	1859.3	753.1
65°	8889.2	8609.7	8292.9	7792.2	7272.1	6697.0	6153.2	5680.5	3058.8	1359.6	454.9
67.5°	8010.8	7770.2	7379.7	6907.1	6263.3	5686.4	5148.5	4711.4	2254.9	840.3	260.9
70°	6745.3	6412.4	6078.6	5624.6	4946.1	4402.3	3901.6	3515.4	1430.7	415.1	192.3
72.5°	4655.5	4392.1	4125.3	3718.7	3212.1	2837.7	2407.4	2089.7	748.8	223.6	177.0
75°	1813.6	1784.8	1754.3	1569.6	1397.7	1119.8	983.5	886.9	311.7	194.0	174.5
77.5°	398.1	421.8	435.4	412.5	393.0	350.7	335.4	299.9	208.4	199.1	172.8
80°	219.4	219.4	219.4	221.9	217.7	217.7	215.2	210.9	194.8	199.1	169.4
82.5°	179.6	182.1	185.5	186.4	185.5	186.4	184.7	183.8	190.6	199.9	160.9
85°	137.2	145.7	150.8	157.6	164.3	168.6	170.3	171.1	175.3	189.7	140.6
87.5°	97.4	104.2	115.2	116.9	124.5	133.8	137.2	142.3	139.8	144.0	66.1
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: P146366

CATALOG NUMBER: LDRL-T2-F05-E-7050

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	1176.6	1176.6	1176.6	1176.6	1176.6
2.5°	1139.3	1132.5	1130.0	1129.2	1127.5
5°	1132.5	1128.3	1124.9	1122.4	1124.1
7.5°	1163.0	1160.5	1154.6	1152.9	1155.4
10°	1217.2	1211.3	1202.8	1203.7	1202.8
12.5°	1285.0	1268.9	1255.4	1249.4	1245.2
15°	1354.5	1323.1	1295.2	1282.5	1277.4
17.5°	1431.6	1378.2	1335.0	1312.1	1307.9
20°	1512.9	1439.2	1383.3	1356.2	1351.9
22.5°	1606.9	1505.3	1434.1	1396.8	1390.9
25°	1698.4	1564.5	1469.7	1423.9	1416.3
27.5°	1781.4	1609.4	1490.9	1436.6	1429.0
30°	1850.9	1645.0	1508.6	1446.8	1438.3
32.5°	1896.6	1664.5	1514.6	1447.7	1437.5
35°	1911.0	1651.8	1489.2	1412.1	1403.6
37.5°	1880.5	1600.1	1421.4	1334.1	1327.4
40°	1811.0	1504.4	1314.7	1224.0	1215.6
42.5°	1702.6	1383.3	1191.0	1095.3	1087.6
45°	1582.3	1253.7	1059.7	964.0	956.3
47.5°	1451.0	1116.4	921.6	833.5	821.7
50°	1307.0	967.4	781.0	694.6	683.6
52.5°	1138.5	804.7	631.9	554.0	547.2
55°	941.1	641.2	503.2	446.4	439.6
57.5°	731.9	487.9	399.8	371.9	360.9
60°	531.1	371.0	318.5	304.9	299.0
62.5°	360.9	277.0	256.7	252.4	248.2
65°	244.8	216.9	210.9	211.8	209.2
67.5°	193.1	182.1	178.7	180.4	179.6
70°	169.4	160.9	160.1	161.8	160.9
72.5°	160.1	149.1	150.8	153.3	152.5
75°	155.9	144.0	147.4	149.1	144.8
77.5°	151.6	136.4	146.5	149.9	141.5
80°	145.7	129.6	153.3	151.6	135.5
82.5°	133.0	114.4	149.9	137.2	122.0
85°	108.4	85.6	168.6	121.1	88.9
87.5°	69.5	51.7	116.9	92.3	59.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)