

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: P146368

Luminaire Tested: **LDRL-T2-E06-E-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146368
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-E06-E-8030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (126) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15184.6 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

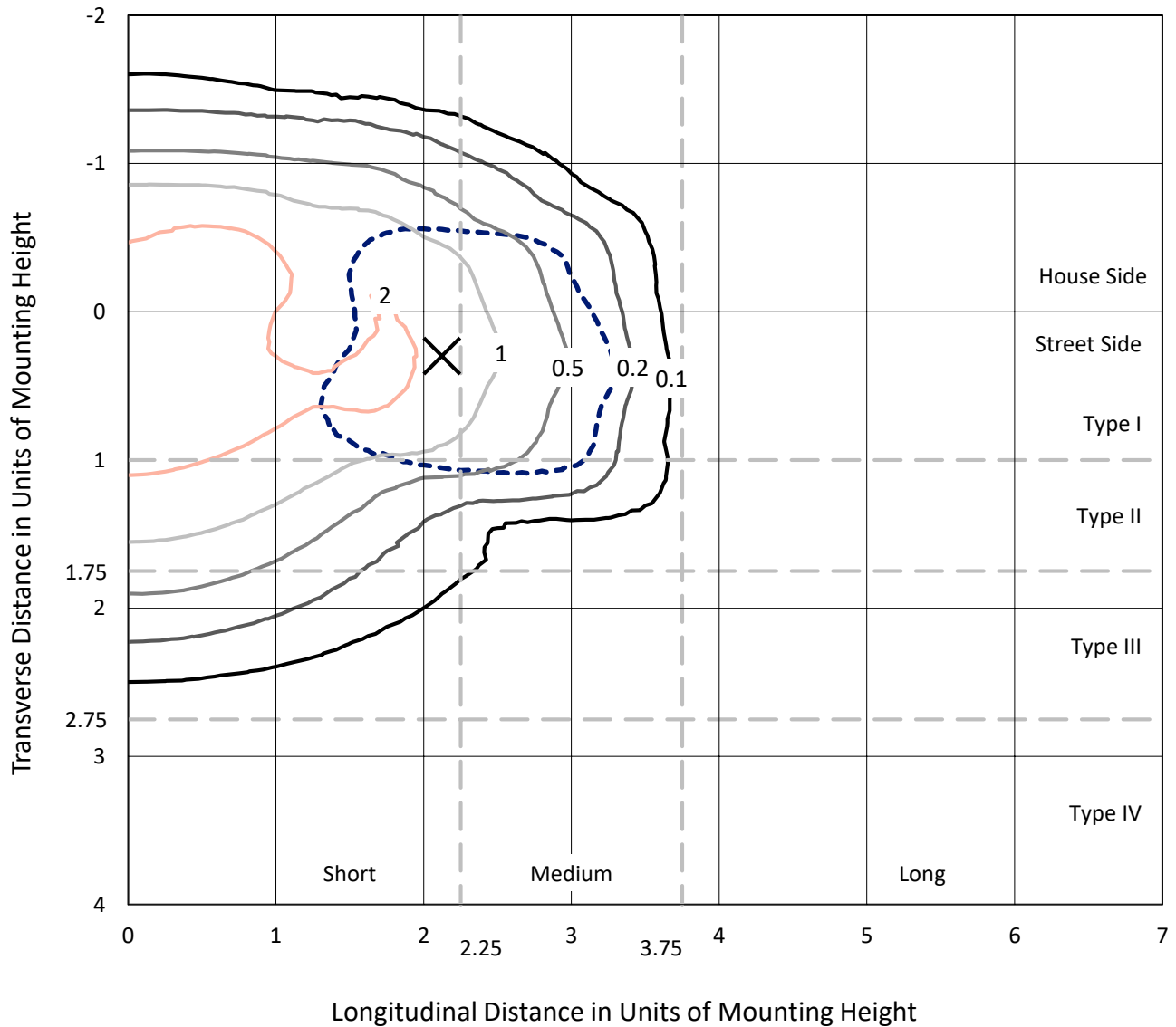
Input Watts (W): 150.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P146368
 CATALOG NUMBER: LDRL-T2-E06-E-8030

Iso-Footcandle Lines of Horizontal Illumination

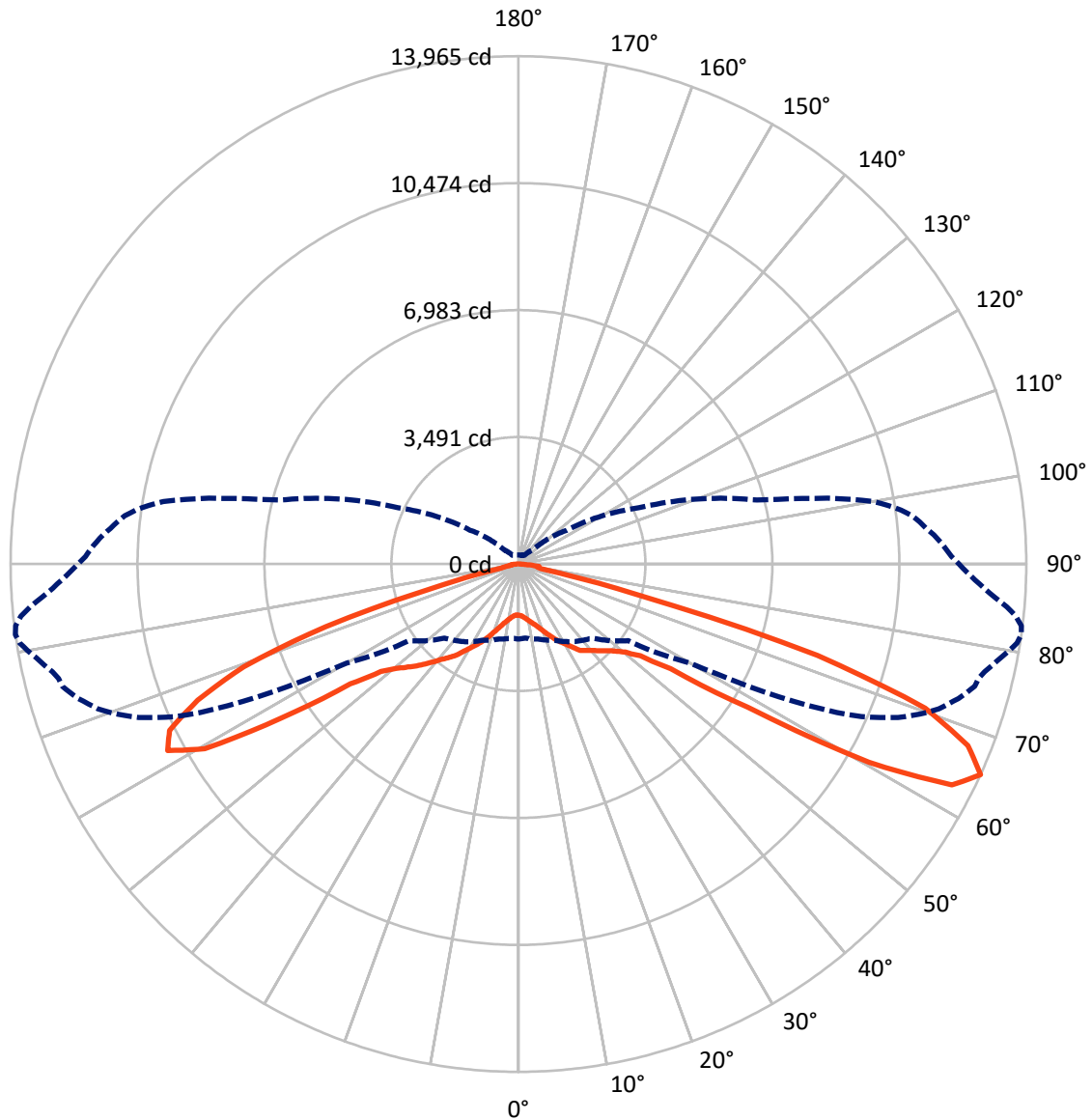
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P146368
CATALOG NUMBER: LDRL-T2-E06-E-8030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P146368

CATALOG NUMBER: LDRL-T2-E06-E-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5589.6	0.0	5589.6
	% Fixture	36.8	0.0	36.8
Street Side	Lumens	9595.0	0.0	9595.0
	% Fixture	63.2	0.0	63.2
Total	Lumens	15184.6	0.0	15184.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.7	0.9
10°-20°	502.9	3.3
20°-30°	997.4	6.6
30°-40°	1701.9	11.2
40°-50°	2552.0	16.8
50°-60°	3552.2	23.4
60°-70°	4081.0	26.9
70°-80°	1408.3	9.3
80°-90°	246.3	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°	15184.6	100.0
0°-180°	15184.6	100.0



REPORT NUMBER: P146368

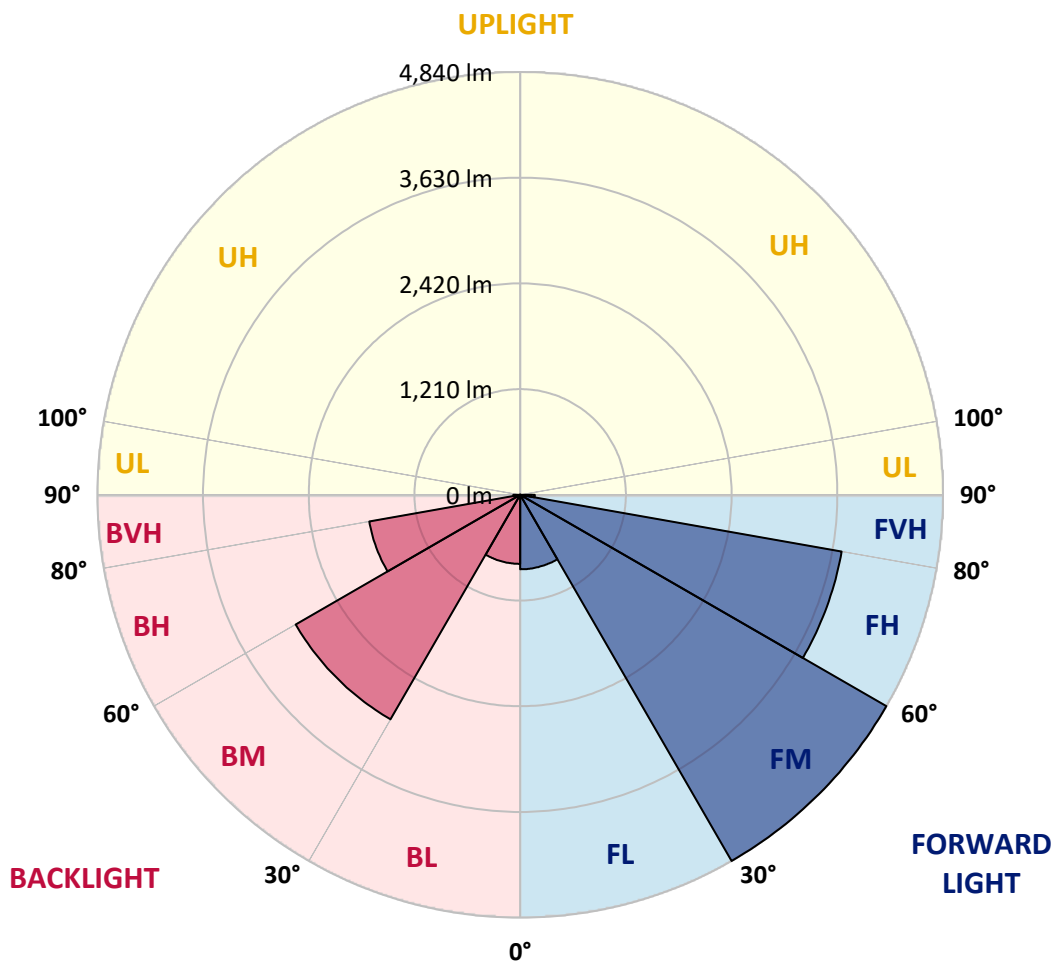
CATALOG NUMBER: LDRL-T2-E06-E-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	852.4	5.6			
FM	(30°-60°)	4839.5	31.9			
FH	(60°-80°)	3735.9	24.6			G2/5000
FVH	(80°-90°)	167.3	1.1			G2/225
BL	(0°-30°)	790.6	5.2	B2/1000		
BM	(30°-60°)	2966.5	19.5	B3/5000		
BH	(60°-80°)	1753.4	11.5	B3/2500		G3/2500
BVH	(80°-90°)	79.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P146368

CATALOG NUMBER: LDRL-T2-E06-E-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	1406.8	1406.8	1406.8	1406.8	1406.8	1406.8	1406.8	1406.8	1406.8	1406.8	1406.8
2.5°	1484.7	1483.7	1482.7	1478.7	1476.6	1468.5	1460.4	1455.4	1451.3	1453.4	1447.3
5°	1570.8	1570.8	1566.8	1561.7	1555.6	1544.5	1524.2	1514.1	1512.1	1512.1	1505.0
7.5°	1658.9	1665.0	1653.9	1649.8	1639.7	1622.5	1599.2	1586.0	1582.0	1582.0	1575.9
10°	1770.4	1767.3	1755.2	1747.1	1726.8	1703.5	1672.1	1656.9	1650.8	1655.9	1645.8
12.5°	1887.8	1886.8	1868.6	1853.4	1825.0	1787.6	1746.0	1725.8	1721.7	1721.7	1715.7
15°	2007.3	2008.4	1988.1	1959.7	1915.2	1864.5	1818.0	1798.7	1793.6	1791.6	1784.5
17.5°	2098.5	2108.6	2088.4	2051.9	1997.2	1941.5	1891.9	1872.6	1871.6	1869.6	1861.5
20°	2150.2	2152.2	2141.0	2114.7	2066.1	2012.4	1978.0	1968.9	1967.8	1968.9	1970.9
22.5°	2148.1	2151.2	2147.1	2137.0	2105.6	2076.2	2072.2	2077.2	2080.3	2077.2	2084.3
25°	2131.9	2136.0	2136.0	2141.0	2132.9	2143.1	2175.5	2189.7	2190.7	2192.7	2207.9
27.5°	2167.4	2171.4	2170.4	2179.5	2186.6	2222.1	2280.8	2306.1	2309.2	2316.2	2330.4
30°	2331.4	2332.5	2314.2	2313.2	2320.3	2348.7	2408.4	2437.8	2434.7	2448.9	2458.0
32.5°	2590.7	2598.8	2580.6	2561.3	2558.3	2562.4	2573.5	2593.8	2590.7	2597.8	2610.0
35°	2886.4	2887.5	2877.3	2888.5	2894.6	2867.2	2814.5	2809.5	2793.3	2796.3	2800.4
37.5°	3157.9	3165.0	3184.2	3255.1	3295.6	3228.8	3125.5	3060.6	3050.5	3045.5	3010.0
40°	3412.1	3447.5	3494.1	3586.3	3642.0	3666.3	3519.4	3388.8	3353.3	3339.2	3283.5
42.5°	3709.8	3728.1	3782.8	3888.1	3962.0	4072.4	3974.2	3830.4	3788.8	3728.1	3658.2
45°	3962.0	3974.2	4008.6	4097.7	4252.7	4437.0	4448.2	4347.9	4315.5	4254.7	4152.4
47.5°	4131.2	4130.2	4155.5	4242.6	4444.1	4725.7	4892.8	4888.7	4851.3	4830.0	4742.9
50°	4197.0	4196.0	4212.2	4309.4	4529.2	4897.8	5266.5	5393.1	5392.1	5400.2	5355.6
52.5°	4209.2	4208.1	4210.2	4288.1	4512.0	4957.6	5535.9	5834.7	5878.2	5932.9	5982.5
55°	4118.0	4128.1	4150.4	4232.4	4447.2	4933.3	5735.4	6248.9	6353.2	6464.6	6644.9
57.5°	3907.3	3926.6	4003.6	4150.4	4378.3	4873.5	5874.2	6761.4	6973.1	7242.5	7730.6
60°	3605.5	3622.7	3729.1	3923.5	4177.8	4613.3	5713.1	6976.1	7378.2	7846.1	8846.7
62.5°	3071.8	3120.4	3177.1	3314.9	3581.2	3931.6	4990.0	6613.5	7236.4	7923.0	9300.4
65°	2063.1	2042.8	2137.0	2312.2	2604.9	2877.3	3676.4	5454.9	6242.8	7187.8	8892.3
67.5°	1277.1	1280.2	1344.0	1515.1	1735.9	1947.6	2330.4	3476.9	4175.7	5074.1	7124.0
70°	1055.3	1067.5	1119.1	1278.1	1466.5	1705.5	1729.8	1843.3	2156.2	2590.7	4400.6
72.5°	837.6	842.6	895.3	1028.0	1294.3	1622.5	2053.9	1400.7	1376.4	1442.2	2232.2
75°	519.6	523.6	549.9	635.0	839.6	1264.0	2261.6	1610.3	1509.1	1424.0	1438.2
77.5°	268.4	276.5	290.7	329.2	440.6	705.9	1780.5	2041.8	1926.3	1810.9	1585.0
80°	151.9	151.9	165.1	174.2	208.6	287.6	905.4	2209.9	2414.5	2464.1	2212.9
82.5°	67.9	76.0	102.3	109.4	119.5	131.7	299.8	1327.8	1842.3	2301.1	2843.9
85°	40.5	39.5	64.8	70.9	73.9	62.8	112.4	541.8	860.9	1259.9	1884.8
87.5°	16.2	17.2	27.3	29.4	34.4	25.3	42.5	116.5	171.2	248.1	350.4
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: P146368

CATALOG NUMBER: LDRL-T2-E06-E-8030

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	1406.8	1406.8	1406.8	1406.8	1406.8	1406.8	1406.8	1406.8	1406.8	1406.8	1406.8
2.5°	1446.3	1446.3	1445.3	1444.2	1443.2	1440.2	1439.2	1437.1	1436.1	1433.1	1432.1
5°	1504.0	1501.0	1499.9	1497.9	1496.9	1492.9	1492.9	1488.8	1485.8	1481.7	1480.7
7.5°	1572.9	1568.8	1565.8	1563.7	1562.7	1555.6	1555.6	1549.6	1548.6	1543.5	1541.5
10°	1642.7	1639.7	1635.7	1633.6	1632.6	1628.6	1624.5	1620.5	1617.4	1614.4	1610.3
12.5°	1712.6	1706.5	1704.5	1701.5	1699.5	1696.4	1695.4	1686.3	1686.3	1683.3	1679.2
15°	1780.5	1779.5	1772.4	1771.4	1769.3	1770.4	1764.3	1765.3	1762.3	1757.2	1755.2
17.5°	1863.5	1856.4	1859.5	1854.4	1855.4	1853.4	1851.4	1850.4	1852.4	1851.4	1853.4
20°	1966.8	1964.8	1967.8	1960.8	1967.8	1968.9	1966.8	1971.9	1969.9	1971.9	1965.8
22.5°	2089.4	2082.3	2082.3	2087.4	2090.4	2099.5	2094.4	2098.5	2102.6	2105.6	2101.5
25°	2212.9	2210.9	2215.0	2219.0	2225.1	2233.2	2231.2	2232.2	2240.3	2245.4	2246.4
27.5°	2338.5	2338.5	2350.7	2350.7	2358.8	2367.9	2370.9	2375.0	2381.1	2388.2	2388.2
30°	2468.2	2468.2	2479.3	2489.4	2493.5	2504.6	2510.7	2516.8	2527.9	2529.9	2539.1
32.5°	2616.0	2619.1	2630.2	2636.3	2645.4	2658.6	2660.6	2667.7	2680.9	2684.9	2692.0
35°	2808.5	2798.3	2808.5	2819.6	2824.7	2820.6	2842.9	2852.0	2861.1	2866.2	2875.3
37.5°	3007.0	2989.8	2990.8	2988.7	2976.6	2983.7	2983.7	2981.7	2987.7	2986.7	2990.8
40°	3258.1	3227.8	3218.6	3199.4	3173.1	3158.9	3143.7	3141.7	3126.5	3132.6	3121.4
42.5°	3602.5	3556.9	3532.6	3472.9	3440.4	3402.0	3364.5	3332.1	3314.9	3295.6	3281.4
45°	4075.5	4021.8	3963.0	3866.8	3811.1	3734.2	3684.5	3610.6	3561.0	3519.4	3490.1
47.5°	4669.0	4578.8	4531.2	4441.1	4343.9	4227.4	4121.0	4017.7	3933.7	3842.5	3770.6
50°	5358.7	5246.2	5208.8	5089.3	5034.6	4903.9	4790.5	4662.9	4531.2	4393.5	4261.8
52.5°	5969.4	5956.2	5971.4	5891.4	5889.4	5823.5	5698.0	5549.1	5426.5	5287.8	5114.6
55°	6701.6	6832.3	6860.6	6849.5	6909.2	6907.2	6895.1	6879.9	6782.6	6586.2	6526.4
57.5°	7993.9	8140.8	8357.5	8455.8	8672.5	8697.8	8898.4	8820.4	8969.3	8928.7	8956.1
60°	9309.6	9760.2	10171.4	10484.4	10788.2	11064.7	11403.0	11547.8	11656.2	11825.3	12003.6
62.5°	9898.0	10466.2	10956.4	11402.0	11779.8	12130.2	12420.8	12696.3	12913.1	13107.5	13257.4
65°	9660.0	10319.3	10797.3	11262.2	11614.7	11940.8	12229.4	12436.0	12651.8	12828.0	12987.0
67.5°	8042.6	8920.6	9544.5	10072.2	10514.8	10886.5	11186.3	11470.8	11623.8	11816.2	11902.3
70°	5327.3	6453.5	7335.6	8048.6	8750.5	9171.8	9527.3	9858.5	10032.7	10188.7	10284.9
72.5°	2925.9	3695.7	4637.6	5485.3	6159.8	6712.8	7127.0	7441.0	7620.2	7753.9	7615.2
75°	1657.9	2037.7	2498.6	2967.5	3478.9	3868.9	3978.2	4111.9	4143.3	4074.5	3896.2
77.5°	1524.2	1524.2	1525.3	1514.1	1536.4	1563.7	1547.5	1520.2	1396.6	1369.3	1330.8
80°	1982.0	1766.3	1535.4	1260.9	1028.0	866.9	817.3	821.4	860.9	937.8	1022.9
82.5°	2809.5	2596.8	2263.6	1845.3	1468.5	1152.6	944.9	849.7	848.7	925.7	1036.1
85°	2048.9	2066.1	1992.2	1762.3	1405.8	1107.0	894.3	686.7	619.8	619.8	611.7
87.5°	358.5	369.7	319.0	285.6	199.5	140.8	126.6	111.4	110.4	114.4	105.3
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: P146368

CATALOG NUMBER: LDRL-T2-E06-E-8030

CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	1406.8	1406.8	1406.8	1406.8	1406.8	1406.8	1406.8	1406.8	1406.8	1406.8	1406.8
2.5°	1432.1	1430.1	1428.0	1427.0	1427.0	1425.0	1425.0	1423.0	1424.0	1423.0	1419.9
5°	1478.7	1477.7	1474.6	1469.6	1468.5	1464.5	1465.5	1461.5	1461.5	1459.4	1454.4
7.5°	1537.4	1535.4	1533.4	1529.3	1525.3	1525.3	1518.2	1518.2	1513.1	1511.1	1507.0
10°	1607.3	1601.2	1598.2	1594.1	1593.1	1592.1	1585.0	1585.0	1578.9	1577.9	1574.9
12.5°	1676.2	1672.1	1669.1	1667.1	1662.0	1661.0	1657.9	1654.9	1651.9	1649.8	1648.8
15°	1751.1	1749.1	1746.0	1746.0	1746.0	1741.0	1737.9	1735.9	1735.9	1732.9	1734.9
17.5°	1848.3	1851.4	1847.3	1845.3	1842.3	1847.3	1842.3	1842.3	1845.3	1845.3	1838.2
20°	1968.9	1972.9	1968.9	1969.9	1967.8	1968.9	1969.9	1971.9	1976.0	1968.9	1969.9
22.5°	2102.6	2103.6	2106.6	2103.6	2108.6	2105.6	2111.7	2116.7	2115.7	2113.7	2114.7
25°	2248.4	2245.4	2246.4	2255.5	2262.6	2260.5	2261.6	2269.7	2267.6	2265.6	2266.6
27.5°	2396.3	2394.2	2397.3	2405.4	2413.5	2412.5	2410.4	2416.5	2416.5	2411.5	2413.5
30°	2543.1	2546.2	2551.2	2551.2	2555.3	2559.3	2556.3	2563.4	2564.4	2560.3	2565.4
32.5°	2698.1	2704.1	2702.1	2716.3	2716.3	2717.3	2720.4	2719.3	2729.5	2721.4	2724.4
35°	2884.4	2886.4	2898.6	2908.7	2914.8	2919.9	2919.9	2922.9	2928.0	2923.9	2930.0
37.5°	2997.9	3001.9	3006.0	3012.0	3012.0	3012.0	3017.1	3018.1	3021.1	3020.1	3022.2
40°	3122.4	3123.4	3124.5	3125.5	3129.5	3131.5	3126.5	3133.6	3128.5	3130.5	3133.6
42.5°	3273.3	3259.2	3261.2	3258.1	3265.2	3256.1	3258.1	3266.2	3262.2	3268.3	3268.3
45°	3448.5	3432.3	3418.2	3410.1	3410.1	3397.9	3399.9	3403.0	3408.0	3416.1	3430.3
47.5°	3707.8	3652.1	3624.8	3596.4	3582.2	3567.0	3572.1	3573.1	3575.1	3588.3	3623.8
50°	4132.2	4039.0	3967.1	3881.0	3848.6	3822.3	3807.1	3808.1	3808.1	3835.4	3870.9
52.5°	4952.5	4779.4	4608.2	4458.3	4329.7	4267.9	4196.0	4177.8	4178.8	4202.1	4226.4
55°	6369.4	6131.4	5950.1	5616.9	5515.6	5231.1	5081.2	4995.1	4928.2	4960.6	4996.1
57.5°	8911.5	8691.8	8547.9	8149.9	7787.3	7684.0	7437.9	7238.4	7156.4	7061.2	7067.2
60°	12029.9	11916.5	11880.0	11647.1	11516.4	11110.3	11077.9	10825.7	10587.7	10382.1	10466.2
62.5°	13372.9	13425.5	13468.1	13550.1	13581.5	13543.0	13380.0	13268.6	13073.1	12803.7	12638.6
65°	13033.6	13154.1	13335.4	13506.6	13711.1	13881.3	13965.3	13932.9	13756.7	13479.2	13132.8
67.5°	11964.1	12086.6	12242.6	12459.3	12772.3	13103.5	13334.4	13481.2	13341.5	13091.3	12738.9
70°	10279.8	10399.3	10404.4	10707.2	11044.5	11461.7	11870.9	12024.8	11865.8	11698.7	11404.0
72.5°	7699.2	7627.3	7694.2	7749.9	7942.3	8205.6	8602.6	8585.4	8342.3	8212.7	7760.0
75°	3618.7	3570.1	3499.2	3452.6	3408.0	3314.9	3359.4	3169.0	3103.2	3129.5	2738.6
77.5°	1301.4	1234.6	1127.2	1022.9	891.3	738.3	622.9	546.9	509.4	510.4	487.2
80°	1091.8	1124.2	1109.0	1005.7	857.8	697.8	522.6	396.0	338.3	314.0	298.8
82.5°	1184.0	1347.0	1428.0	1364.2	1152.6	887.2	571.2	345.4	253.2	216.7	207.6
85°	656.3	657.3	637.0	608.7	539.8	370.7	247.1	164.1	131.7	117.5	113.4
87.5°	111.4	106.3	106.3	99.3	87.1	85.1	76.0	71.9	63.8	58.7	56.7
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: P146368

CATALOG NUMBER: LDRL-T2-E06-E-8030

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	1406.8	1406.8	1406.8	1406.8	1406.8	1406.8	1406.8	1406.8	1406.8	1406.8	1406.8
2.5°	1416.9	1414.9	1413.9	1412.8	1412.8	1411.8	1411.8	1409.8	1407.8	1406.8	1405.8
5°	1449.3	1447.3	1445.3	1443.2	1443.2	1441.2	1439.2	1437.1	1434.1	1429.0	1428.0
7.5°	1504.0	1499.9	1499.9	1492.9	1492.9	1488.8	1485.8	1485.8	1481.7	1473.6	1472.6
10°	1571.8	1564.8	1561.7	1557.7	1555.6	1551.6	1551.6	1547.5	1545.5	1542.5	1532.3
12.5°	1644.8	1639.7	1637.7	1632.6	1629.6	1629.6	1627.6	1620.5	1625.5	1618.4	1613.4
15°	1732.9	1731.9	1722.8	1725.8	1724.8	1723.8	1724.8	1718.7	1717.7	1717.7	1711.6
17.5°	1843.3	1835.2	1836.2	1836.2	1838.2	1838.2	1830.1	1834.2	1835.2	1833.1	1831.1
20°	1972.9	1969.9	1972.9	1966.8	1972.9	1972.9	1977.0	1976.0	1977.0	1979.0	1979.0
22.5°	2111.7	2119.8	2120.8	2122.8	2115.7	2127.9	2127.9	2129.9	2135.0	2135.0	2137.0
25°	2279.8	2275.7	2270.7	2277.8	2279.8	2287.9	2289.9	2289.9	2298.0	2298.0	2301.1
27.5°	2419.6	2423.6	2422.6	2426.6	2424.6	2435.8	2439.8	2452.0	2448.9	2455.0	2463.1
30°	2563.4	2571.5	2567.4	2568.4	2573.5	2580.6	2588.7	2600.8	2602.9	2619.1	2623.1
32.5°	2729.5	2735.5	2740.6	2742.6	2742.6	2754.8	2768.0	2772.0	2793.3	2805.4	2819.6
35°	2940.1	2941.1	2944.2	2947.2	2945.2	2958.4	2971.5	2975.6	2997.9	3000.9	3030.3
37.5°	3029.3	3031.3	3043.4	3049.5	3053.6	3069.8	3094.1	3112.3	3136.6	3159.9	3193.3
40°	3140.7	3152.8	3164.0	3173.1	3188.3	3210.5	3248.0	3266.2	3302.7	3346.3	3378.7
42.5°	3281.4	3303.7	3311.8	3329.0	3366.5	3393.9	3431.3	3470.8	3519.4	3572.1	3610.6
45°	3448.5	3469.8	3500.2	3519.4	3563.0	3606.5	3666.3	3700.7	3750.4	3811.1	3853.7
47.5°	3651.1	3680.5	3710.9	3750.4	3802.0	3847.6	3907.3	3951.9	4001.5	4051.2	4097.7
50°	3903.3	3946.8	3987.4	4028.9	4097.7	4136.2	4195.0	4241.6	4288.1	4337.8	4380.3
52.5°	4242.6	4308.4	4360.1	4388.4	4481.6	4520.1	4592.0	4624.4	4662.9	4707.4	4762.1
55°	4982.9	5085.2	5172.3	5223.0	5364.7	5415.4	5508.6	5556.2	5529.8	5586.5	5684.8
57.5°	7124.0	7249.5	7353.9	7422.7	7567.6	7638.5	7643.5	7821.8	7716.4	7820.8	7835.9
60°	10242.3	10341.6	10316.3	10317.3	10271.7	10205.9	10332.5	10140.0	10221.1	10226.1	10044.8
62.5°	12333.7	12181.8	12110.9	11993.4	11856.7	11751.4	11679.5	11524.5	11401.0	11302.7	11111.3
65°	12826.0	12562.6	12329.7	12109.9	11908.4	11768.6	11616.7	11450.6	11257.2	11094.1	10907.7
67.5°	12350.0	11981.3	11635.9	11346.3	11070.8	10886.5	10666.7	10508.7	10265.6	10050.9	9909.1
70°	10969.5	10459.1	10056.0	9870.6	9597.2	9201.2	8991.5	8794.0	8645.2	8450.7	8364.6
72.5°	7695.2	7065.2	6754.3	6766.4	6488.9	6205.4	6212.4	6091.9	5899.5	5893.4	5864.0
75°	2827.7	2572.5	2393.2	2401.3	2298.0	2187.6	2218.0	2250.4	2187.6	2315.2	2117.7
77.5°	449.7	437.5	433.5	424.4	402.1	418.3	407.1	428.4	431.4	454.7	456.8
80°	286.6	274.5	271.4	266.4	265.4	265.4	263.3	263.3	263.3	264.3	262.3
82.5°	191.4	184.3	183.3	180.3	185.3	186.4	187.4	195.5	202.6	204.6	212.7
85°	104.3	99.3	99.3	97.2	101.3	102.3	111.4	122.5	136.7	142.8	156.0
87.5°	52.7	55.7	54.7	56.7	59.8	66.8	73.9	81.0	89.1	100.3	109.4
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: P146368
 CATALOG NUMBER: LDRL-T2-E06-E-8030

CANDELA DISTRIBUTION (continued):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	1406.8	1406.8	1406.8	1406.8	1406.8	1406.8	1406.8	1406.8	1406.8	1406.8	1406.8
2.5°	1403.7	1402.7	1402.7	1400.7	1400.7	1399.7	1397.6	1395.6	1386.5	1375.4	1368.3
5°	1425.0	1423.0	1422.0	1419.9	1416.9	1416.9	1413.9	1409.8	1392.6	1374.4	1363.2
7.5°	1468.5	1467.5	1464.5	1460.4	1456.4	1452.3	1450.3	1448.3	1422.0	1404.7	1396.6
10°	1531.3	1530.3	1523.2	1522.2	1516.1	1517.2	1512.1	1508.0	1490.8	1471.6	1460.4
12.5°	1611.3	1615.4	1611.3	1602.2	1604.3	1601.2	1596.2	1591.1	1575.9	1560.7	1543.5
15°	1710.6	1705.5	1701.5	1709.6	1702.5	1701.5	1704.5	1705.5	1687.3	1671.1	1646.8
17.5°	1834.2	1834.2	1832.1	1834.2	1830.1	1833.1	1831.1	1833.1	1825.0	1802.8	1767.3
20°	1974.9	1983.0	1983.0	1980.0	1979.0	1985.1	1988.1	1977.0	1979.0	1959.7	1895.9
22.5°	2139.0	2145.1	2147.1	2144.1	2145.1	2153.2	2158.3	2150.2	2168.4	2137.0	2038.7
25°	2308.1	2317.3	2313.2	2314.2	2322.3	2331.4	2340.6	2332.5	2367.9	2319.3	2190.7
27.5°	2475.3	2483.4	2481.3	2487.4	2500.6	2512.7	2522.9	2519.8	2578.6	2514.8	2350.7
30°	2633.3	2652.5	2656.5	2663.6	2679.8	2700.1	2716.3	2715.3	2791.2	2705.2	2481.3
32.5°	2827.7	2849.0	2857.1	2872.3	2903.7	2917.8	2938.1	2940.1	3016.1	2872.3	2591.7
35°	3052.5	3073.8	3091.0	3102.2	3137.6	3154.8	3175.1	3184.2	3234.8	3028.2	2668.7
37.5°	3226.7	3245.0	3278.4	3301.7	3333.1	3367.5	3390.8	3402.0	3430.3	3161.9	2704.1
40°	3417.2	3456.6	3489.1	3524.5	3558.9	3586.3	3607.6	3624.8	3613.6	3273.3	2689.0
42.5°	3658.2	3699.7	3743.3	3773.7	3791.9	3828.3	3838.5	3850.6	3759.5	3324.0	2620.1
45°	3909.4	3942.8	3979.2	4001.5	4025.8	4044.1	4047.1	4048.1	3867.8	3294.6	2495.5
47.5°	4151.4	4179.8	4205.1	4217.3	4229.4	4230.4	4225.4	4217.3	3925.6	3195.3	2345.6
50°	4416.8	4434.0	4445.1	4446.1	4457.3	4436.0	4421.8	4384.4	3919.5	3043.4	2187.6
52.5°	4798.6	4794.5	4780.4	4779.4	4743.9	4703.4	4677.1	4623.4	3878.0	2879.4	2005.3
55°	5675.7	5637.2	5681.7	5568.3	5474.1	5411.3	5262.5	5154.1	3919.5	2726.4	1795.7
57.5°	7783.3	7651.6	7665.8	7482.5	7282.0	6906.2	6684.4	6384.6	4245.6	2641.4	1531.3
60°	10006.4	9789.6	9585.0	9259.9	8833.5	8356.5	7927.1	7458.2	4569.7	2537.0	1249.8
62.5°	10923.9	10644.4	10288.9	9830.1	9282.2	8690.7	8097.2	7562.5	4391.5	2223.1	900.4
65°	10628.2	10294.0	9915.2	9316.6	8694.8	8007.1	7356.9	6791.8	3657.2	1625.5	543.9
67.5°	9577.9	9290.3	8823.4	8258.3	7488.6	6798.9	6155.7	5633.1	2696.0	1004.7	311.9
70°	8064.8	7666.8	7267.8	6724.9	5913.7	5263.5	4664.9	4203.1	1710.6	496.3	229.9
72.5°	5566.3	5251.3	4932.3	4446.1	3840.5	3392.8	2878.3	2498.6	895.3	267.4	211.7
75°	2168.4	2133.9	2097.5	1876.7	1671.1	1338.9	1175.8	1060.4	372.7	231.9	208.6
77.5°	476.0	504.4	520.6	493.2	469.9	419.3	401.1	358.5	249.1	238.0	206.6
80°	262.3	262.3	262.3	265.4	260.3	260.3	257.2	252.2	232.9	238.0	202.6
82.5°	214.7	217.7	221.8	222.8	221.8	222.8	220.8	219.8	227.9	239.0	192.4
85°	164.1	174.2	180.3	188.4	196.5	201.5	203.6	204.6	209.6	226.9	168.1
87.5°	116.5	124.6	137.7	139.8	148.9	160.0	164.1	170.1	167.1	172.2	79.0
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: P146368

CATALOG NUMBER: LDRL-T2-E06-E-8030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	1406.8	1406.8	1406.8	1406.8	1406.8
2.5°	1362.2	1354.1	1351.1	1350.0	1348.0
5°	1354.1	1349.0	1345.0	1341.9	1344.0
7.5°	1390.6	1387.5	1380.4	1378.4	1381.4
10°	1455.4	1448.3	1438.2	1439.2	1438.2
12.5°	1536.4	1517.2	1501.0	1493.9	1488.8
15°	1619.4	1582.0	1548.6	1533.4	1527.3
17.5°	1711.6	1647.8	1596.2	1568.8	1563.7
20°	1808.8	1720.7	1653.9	1621.5	1616.4
22.5°	1921.3	1799.7	1714.7	1670.1	1663.0
25°	2030.6	1870.6	1757.2	1702.5	1693.4
27.5°	2129.9	1924.3	1782.5	1717.7	1708.6
30°	2212.9	1966.8	1803.8	1729.8	1719.7
32.5°	2267.6	1990.1	1810.9	1730.9	1718.7
35°	2284.9	1974.9	1780.5	1688.3	1678.2
37.5°	2248.4	1913.2	1699.5	1595.1	1587.0
40°	2165.3	1798.7	1571.8	1463.5	1453.4
42.5°	2035.7	1653.9	1424.0	1309.5	1300.4
45°	1891.9	1498.9	1267.0	1152.6	1143.4
47.5°	1734.9	1334.9	1101.9	996.6	982.4
50°	1562.7	1156.6	933.8	830.5	817.3
52.5°	1361.2	962.1	755.5	662.4	654.3
55°	1125.2	766.7	601.6	533.7	525.6
57.5°	875.0	583.4	478.0	444.6	431.4
60°	635.0	443.6	380.8	364.6	357.5
62.5°	431.4	331.2	306.9	301.8	296.7
65°	292.7	259.3	252.2	253.2	250.2
67.5°	230.9	217.7	213.7	215.7	214.7
70°	202.6	192.4	191.4	193.4	192.4
72.5°	191.4	178.3	180.3	183.3	182.3
75°	186.4	172.2	176.2	178.3	173.2
77.5°	181.3	163.1	175.2	179.3	169.1
80°	174.2	155.0	183.3	181.3	162.0
82.5°	159.0	136.7	179.3	164.1	145.8
85°	129.6	102.3	201.5	144.8	106.3
87.5°	83.0	61.8	139.8	110.4	70.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)