

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: P144863

Luminaire Tested: **LDRL-SL2-F05-E-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144863
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33701)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRL-SL2-F05-E-8030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (35) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10200.1 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

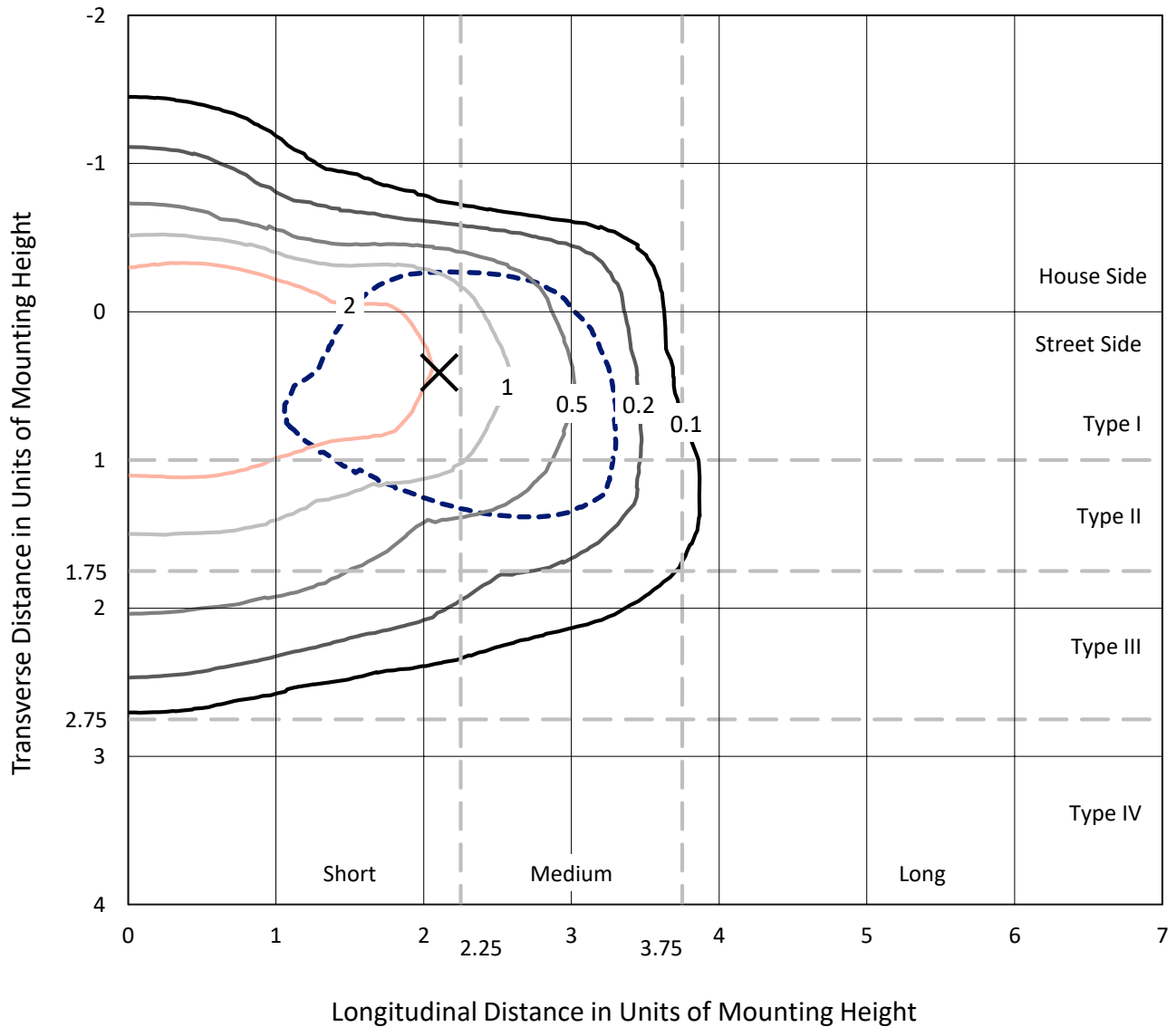
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P144863
 CATALOG NUMBER: LDRL-SL2-F05-E-8030

Iso-Footcandle Lines of Horizontal Illumination

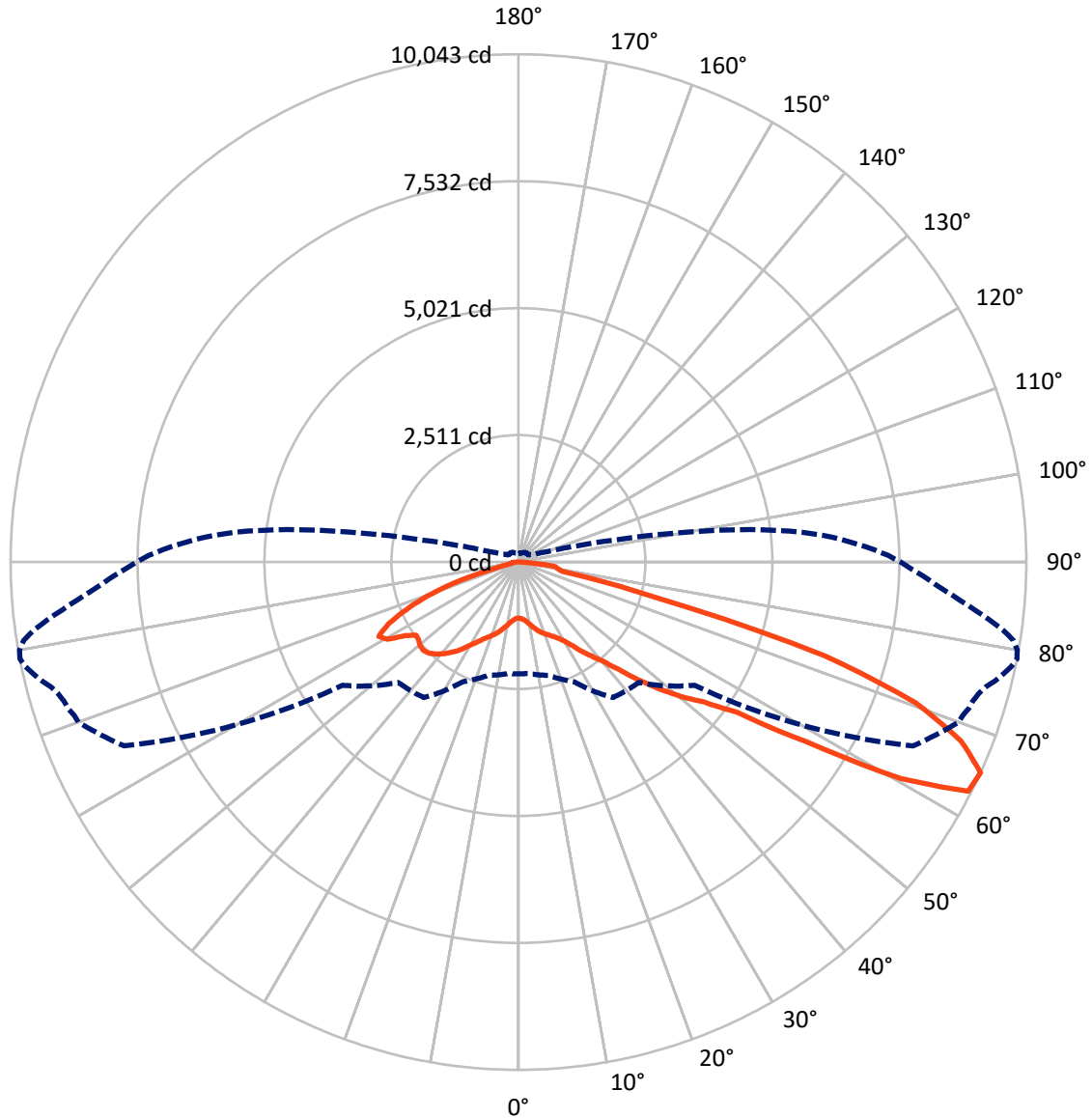
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P144863
CATALOG NUMBER: LDRL-SL2-F05-E-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P144863

CATALOG NUMBER: LDRL-SL2-F05-E-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2315.3	0.0	2315.3
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	7884.8	0.0	7884.8
	% Fixture	77.3	0.0	77.3
Total	Lumens	10200.1	0.0	10200.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.1	1.1
10°-20°	358.2	3.5
20°-30°	617.5	6.1
30°-40°	1007.0	9.9
40°-50°	1681.1	16.5
50°-60°	2273.1	22.3
60°-70°	2823.9	27.7
70°-80°	1130.8	11.1
80°-90°	198.7	1.9
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°	10200.1	100.0
0°-180°	10200.1	100.0



REPORT NUMBER: P144863

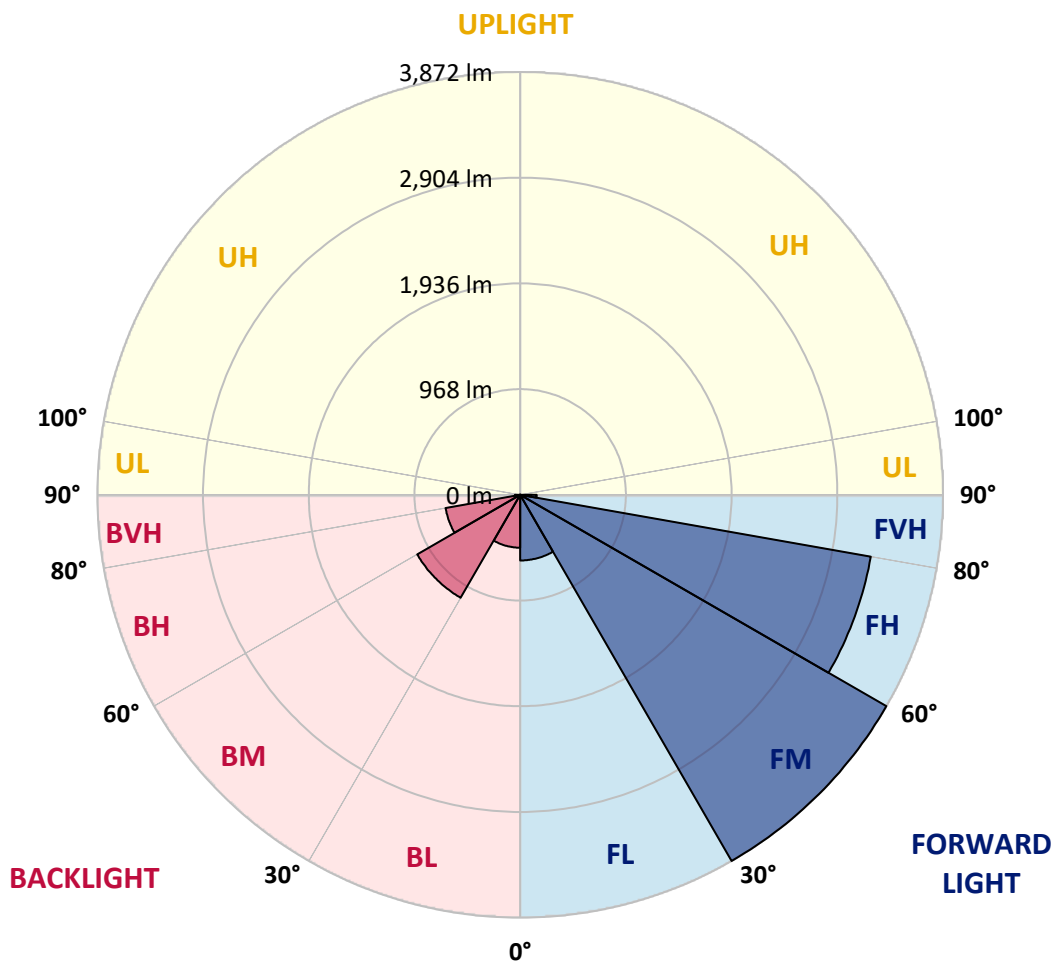
CATALOG NUMBER: LDRL-SL2-F05-E-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	601.5	5.9			
FM	(30°-60°)	3872.1	38.0			
FH	(60°-80°)	3260.5	32.0			G2/5000
FVH	(80°-90°)	150.7	1.5			G2/225
BL	(0°-30°)	484.3	4.7	B1/500		
BM	(30°-60°)	1089.0	10.7	B2/2500		
BH	(60°-80°)	694.1	6.8	B2/1000		G2/1000
BVH	(80°-90°)	48.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P144863

CATALOG NUMBER: LDRL-SL2-F05-E-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	1108.5	1108.5	1108.5	1108.5	1108.5	1108.5	1108.5	1108.5	1108.5	1108.5	1108.5
2.5°	1116.9	1116.2	1119.7	1122.4	1122.4	1123.8	1123.1	1119.0	1119.7	1121.0	1119.7
5°	1129.4	1126.6	1130.1	1134.3	1137.1	1140.6	1144.0	1144.7	1147.5	1147.5	1146.8
7.5°	1156.6	1154.5	1159.4	1160.8	1167.0	1172.6	1179.6	1184.5	1187.2	1188.6	1190.7
10°	1203.3	1201.9	1203.3	1206.0	1208.8	1215.1	1227.0	1237.4	1243.7	1243.7	1246.5
12.5°	1259.7	1254.1	1255.5	1249.9	1251.3	1264.6	1278.5	1295.9	1306.4	1307.8	1309.2
15°	1303.6	1300.8	1298.7	1291.1	1296.6	1314.0	1335.6	1360.7	1369.8	1377.4	1376.7
17.5°	1344.7	1341.2	1336.3	1325.9	1331.5	1359.3	1392.1	1419.9	1435.3	1436.7	1438.1
20°	1393.5	1389.3	1380.2	1358.6	1357.2	1396.3	1440.2	1470.1	1484.0	1490.3	1492.4
22.5°	1455.5	1449.9	1433.2	1391.4	1380.2	1426.2	1478.5	1515.4	1530.0	1536.3	1539.8
25°	1534.9	1523.8	1497.3	1431.8	1408.8	1456.9	1519.6	1564.2	1584.4	1590.6	1594.8
27.5°	1606.7	1598.3	1566.3	1488.9	1449.2	1498.0	1569.7	1626.9	1654.7	1662.4	1668.7
30°	1690.3	1678.4	1652.7	1570.4	1517.5	1560.7	1652.0	1724.4	1758.6	1759.3	1773.2
32.5°	1886.8	1879.1	1855.4	1764.8	1675.6	1678.4	1763.4	1863.1	1897.2	1902.8	1915.3
35°	2178.0	2175.2	2174.5	2124.3	2058.2	1989.9	1996.1	2072.1	2095.1	2104.1	2108.3
37.5°	2369.6	2394.0	2453.2	2489.4	2472.7	2487.3	2410.7	2318.0	2304.8	2295.0	2299.2
40°	2534.7	2556.3	2676.2	2843.4	2945.1	3016.9	2949.3	2665.0	2559.1	2528.5	2516.6
42.5°	2632.3	2656.7	2828.0	3095.6	3354.8	3524.8	3542.9	3147.9	2878.9	2875.4	2830.8
45°	2685.2	2709.6	2914.4	3274.7	3641.1	3947.7	4106.6	3742.2	3347.1	3317.9	3255.8
47.5°	2674.8	2697.8	2911.0	3340.8	3810.4	4228.5	4546.2	4342.8	3887.1	3816.7	3731.0
50°	2547.3	2564.0	2787.6	3232.9	3765.2	4345.5	4847.2	4893.9	4498.1	4402.7	4274.5
52.5°	2415.6	2445.5	2630.9	3041.3	3559.6	4273.1	5026.9	5395.5	5068.8	5003.3	4838.8
55°	2344.5	2368.2	2519.4	2869.9	3342.9	4025.7	5101.5	5868.6	5762.0	5735.5	5619.2
57.5°	2341.7	2364.7	2485.3	2766.0	3166.7	3767.9	5123.1	6599.5	6912.3	6919.3	6885.8
60°	2456.0	2479.7	2580.7	2816.2	3112.3	3547.1	5045.8	7636.2	8327.4	8388.7	8491.1
62.5°	2472.0	2483.2	2605.1	2922.8	3310.2	3382.0	4727.4	8499.5	9300.0	9356.5	9412.9
65°	2211.4	2210.7	2318.7	2611.4	3269.1	3365.2	4248.7	8605.4	9261.0	9295.1	9365.5
67.5°	1649.2	1635.2	1696.6	1964.1	2593.9	3369.4	3681.6	7806.2	8539.2	8604.0	8627.7
70°	850.0	871.6	913.4	1077.2	1647.1	2712.4	3162.5	6586.2	7496.2	7520.6	7604.9
72.5°	349.1	340.0	368.6	452.9	824.2	1792.7	2616.2	5197.6	6191.2	6174.5	6189.8
75°	194.4	197.2	205.5	236.2	400.6	900.2	2247.7	3679.5	4210.4	3921.9	3834.8
77.5°	156.1	157.5	158.2	163.7	218.8	480.1	1725.1	2423.2	2117.4	1966.2	1908.4
80°	114.3	121.9	130.3	131.7	150.5	272.4	946.2	2040.0	1787.1	1661.7	1558.6
82.5°	92.0	95.5	113.6	116.4	119.8	162.3	428.5	1916.0	1780.2	1652.0	1509.8
85°	55.0	61.3	92.7	93.4	94.8	98.9	236.9	780.3	970.6	857.7	785.2
87.5°	19.5	25.1	46.0	38.3	48.8	40.4	103.8	261.3	321.9	305.9	271.0
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: P144863

CATALOG NUMBER: LDRL-SL2-F05-E-8030

CANDELA DISTRIBUTION (continued):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	1108.5	1108.5	1108.5	1108.5	1108.5	1108.5	1108.5	1108.5	1108.5	1108.5	1108.5
2.5°	1119.0	1119.0	1120.4	1119.7	1119.7	1119.7	1119.7	1118.3	1118.3	1116.2	1117.6
5°	1146.8	1146.1	1146.8	1147.5	1146.8	1148.2	1147.5	1146.8	1147.5	1146.8	1147.5
7.5°	1191.4	1187.9	1192.8	1190.0	1189.3	1193.5	1191.4	1193.5	1194.2	1193.5	1192.8
10°	1247.9	1249.9	1249.9	1249.9	1248.6	1252.7	1253.4	1254.8	1255.5	1258.3	1258.3
12.5°	1312.6	1313.3	1316.1	1315.4	1316.8	1321.7	1325.2	1325.9	1326.6	1328.7	1325.9
15°	1382.3	1383.7	1383.7	1390.0	1387.9	1394.9	1397.0	1397.0	1397.7	1406.0	1406.7
17.5°	1444.3	1444.3	1449.9	1449.9	1455.5	1456.9	1463.1	1463.8	1466.6	1474.3	1475.0
20°	1496.6	1499.4	1502.9	1507.0	1509.1	1513.3	1517.5	1521.7	1525.2	1531.4	1532.1
22.5°	1546.1	1548.8	1554.4	1557.2	1562.1	1564.9	1568.4	1573.2	1578.8	1587.2	1589.3
25°	1603.2	1606.0	1612.2	1616.4	1622.0	1626.2	1632.5	1638.7	1642.2	1650.6	1656.8
27.5°	1675.6	1684.0	1692.4	1694.5	1698.6	1708.4	1716.8	1725.1	1732.8	1737.0	1744.6
30°	1781.6	1781.6	1799.0	1799.0	1806.6	1815.7	1821.3	1830.3	1844.3	1848.4	1858.2
32.5°	1923.7	1927.2	1933.4	1952.3	1966.2	1970.4	1974.5	1987.8	1996.1	2006.6	2018.4
35°	2126.4	2129.9	2133.4	2151.5	2167.5	2171.7	2175.9	2184.3	2198.2	2216.3	2210.7
37.5°	2308.3	2310.4	2321.5	2341.7	2350.8	2361.9	2365.4	2380.7	2388.4	2405.1	2405.8
40°	2527.1	2522.2	2528.5	2551.4	2565.4	2564.7	2575.8	2603.7	2609.3	2616.9	2636.4
42.5°	2832.2	2814.1	2833.6	2841.3	2862.2	2875.4	2897.7	2916.5	2929.8	2959.0	2973.0
45°	3226.6	3207.8	3223.8	3227.3	3270.5	3283.7	3317.2	3342.2	3370.8	3404.2	3414.0
47.5°	3676.0	3641.1	3621.6	3643.2	3694.8	3716.4	3749.1	3772.8	3802.8	3820.2	3814.6
50°	4196.4	4112.8	4073.8	4062.7	4099.6	4130.2	4181.1	4192.3	4206.2	4205.5	4206.2
52.5°	4776.8	4689.7	4608.2	4551.8	4546.2	4587.3	4599.8	4602.6	4598.5	4567.1	4547.6
55°	5534.9	5528.6	5442.9	5325.8	5318.2	5313.3	5240.1	5231.1	5214.4	5166.3	5100.1
57.5°	6910.2	6979.9	6923.5	6920.7	6859.4	6819.0	6684.5	6617.6	6547.2	6416.9	6313.1
60°	8500.2	8601.2	8656.9	8681.3	8801.2	8801.2	8691.1	8596.3	8482.1	8283.5	8089.8
62.5°	9457.5	9546.0	9628.2	9757.1	9909.7	9977.3	9982.8	9898.5	9754.3	9527.9	9254.0
65°	9396.9	9462.4	9562.0	9713.9	9840.0	9961.2	10042.7	10017.0	9906.9	9680.4	9382.2
67.5°	8710.6	8806.0	8934.9	9075.0	9192.0	9306.3	9438.0	9447.7	9418.5	9203.2	8933.5
70°	7651.5	7774.2	7855.7	8032.0	8084.9	8200.6	8333.0	8396.4	8349.0	8183.2	8025.0
72.5°	6216.3	6313.1	6327.1	6250.4	6276.9	6305.5	6337.5	6189.1	6132.0	5910.4	5808.7
75°	3769.3	3641.8	3534.5	3427.9	3109.5	2996.7	2823.2	2481.1	2442.1	2207.3	2044.2
77.5°	1792.7	1739.1	1642.2	1479.9	1263.9	1056.9	877.2	712.8	651.4	536.5	457.1
80°	1500.8	1436.7	1349.6	1229.0	1077.8	927.4	785.2	663.3	540.7	440.3	351.9
82.5°	1376.7	1265.3	1142.6	1038.8	932.2	829.8	734.4	624.3	559.5	451.5	368.6
85°	696.0	609.6	494.0	416.0	351.2	285.7	247.3	211.1	188.1	149.8	130.3
87.5°	233.4	190.9	142.1	120.5	108.7	93.4	85.7	81.5	79.4	70.4	62.7
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: P144863

CATALOG NUMBER: LDRL-SL2-F05-E-8030

CANDELA DISTRIBUTION (continued):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	1108.5	1108.5	1108.5	1108.5	1108.5	1108.5	1108.5	1108.5	1108.5	1108.5	1108.5
2.5°	1117.6	1117.6	1117.6	1117.6	1116.9	1116.9	1116.9	1116.9	1116.9	1116.9	1117.6
5°	1146.1	1146.1	1146.8	1148.9	1144.7	1146.1	1147.5	1145.4	1147.5	1145.4	1148.2
7.5°	1192.1	1194.2	1192.8	1195.6	1194.2	1198.4	1195.6	1193.5	1194.9	1194.9	1195.6
10°	1256.9	1259.7	1257.6	1259.0	1259.0	1261.8	1258.3	1259.0	1259.7	1258.3	1259.0
12.5°	1328.7	1330.1	1329.4	1333.6	1331.5	1333.6	1331.5	1334.2	1335.6	1337.0	1337.0
15°	1406.7	1408.1	1412.3	1411.6	1415.8	1414.4	1415.1	1411.6	1418.6	1414.4	1415.8
17.5°	1478.5	1477.8	1483.3	1485.4	1486.1	1486.8	1488.9	1486.1	1486.8	1488.9	1487.5
20°	1534.2	1539.1	1540.5	1546.1	1550.2	1551.6	1550.9	1553.0	1555.8	1553.0	1553.0
22.5°	1593.4	1600.4	1602.5	1606.0	1610.2	1610.9	1615.0	1617.1	1618.5	1617.8	1618.5
25°	1664.5	1669.4	1674.3	1681.2	1686.1	1686.8	1690.3	1693.1	1693.8	1693.1	1697.2
27.5°	1751.6	1757.9	1764.1	1772.5	1778.1	1779.5	1787.1	1787.1	1791.3	1793.4	1794.8
30°	1863.8	1865.9	1881.9	1890.2	1888.2	1897.9	1908.4	1907.7	1912.5	1913.9	1917.4
32.5°	2026.8	2026.8	2040.7	2051.2	2062.3	2058.9	2074.9	2072.1	2079.8	2083.9	2081.8
35°	2224.7	2231.6	2242.1	2248.4	2260.2	2266.5	2277.6	2283.9	2287.4	2286.7	2279.0
37.5°	2428.8	2440.0	2444.1	2459.5	2471.3	2481.8	2483.2	2476.2	2479.0	2465.1	2460.9
40°	2662.2	2678.3	2688.0	2711.0	2709.6	2722.8	2724.2	2704.0	2700.5	2682.4	2663.6
42.5°	2988.3	3010.6	3018.3	3035.7	3021.7	3028.0	2993.2	2984.8	2956.9	2927.7	2885.2
45°	3427.9	3416.8	3421.7	3416.8	3379.9	3352.7	3324.1	3283.0	3241.9	3185.5	3124.9
47.5°	3814.6	3820.2	3784.0	3761.0	3701.1	3662.7	3610.5	3538.7	3488.6	3412.6	3332.5
50°	4190.2	4128.2	4077.3	4024.3	3971.4	3901.0	3822.3	3758.9	3685.7	3591.0	3492.7
52.5°	4495.3	4415.2	4353.9	4278.7	4206.9	4128.9	4046.6	3954.7	3858.5	3763.8	3642.5
55°	5036.0	4919.6	4840.9	4709.2	4627.7	4518.3	4454.2	4335.1	4201.3	4075.9	3947.0
57.5°	6196.1	6021.9	5932.0	5857.5	5730.6	5550.9	5436.6	5240.8	5049.9	4916.2	4701.6
60°	7943.5	7766.5	7617.4	7441.1	7246.7	7002.9	6894.2	6663.6	6390.5	6169.6	5886.0
62.5°	9032.5	8787.9	8546.2	8298.8	8103.7	7912.8	7687.8	7455.1	7184.7	6884.4	6574.4
65°	9076.4	8783.0	8493.9	8241.7	8013.2	7765.1	7554.0	7317.8	7033.5	6724.2	6402.3
67.5°	8620.7	8292.5	7982.5	7705.9	7444.6	7214.7	6993.8	6771.6	6467.1	6207.9	5878.4
70°	7712.9	7413.3	7132.5	6817.6	6617.6	6359.1	6143.8	5909.7	5691.6	5449.2	5140.5
72.5°	5665.2	5439.4	5118.9	4985.1	4877.8	4604.0	4443.8	4424.3	4284.9	3994.4	3763.8
75°	2106.9	1793.4	1698.6	1755.1	1661.0	1692.4	1680.5	1613.6	1616.4	1567.0	1508.4
77.5°	412.5	383.2	360.2	366.5	340.7	329.6	353.2	346.3	333.7	337.2	331.6
80°	280.8	237.6	215.3	206.9	196.5	191.6	190.2	188.1	183.9	181.8	175.6
82.5°	276.6	205.5	162.3	139.3	131.0	126.8	123.3	122.6	121.2	120.5	122.6
85°	110.1	89.2	81.5	74.6	72.5	70.4	70.4	69.7	69.0	70.4	73.2
87.5°	53.6	45.3	41.1	37.6	36.2	35.5	35.5	36.2	36.9	39.7	45.3
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: P144863
 CATALOG NUMBER: LDRL-SL2-F05-E-8030

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	1108.5	1108.5	1108.5	1108.5	1108.5	1108.5	1108.5	1108.5	1108.5	1108.5	1108.5
2.5°	1116.2	1116.9	1115.5	1116.2	1115.5	1114.1	1113.4	1115.5	1114.8	1114.1	1114.1
5°	1144.7	1147.5	1146.1	1144.7	1144.7	1144.0	1144.0	1144.0	1143.3	1144.0	1141.9
7.5°	1194.2	1193.5	1193.5	1192.1	1190.7	1192.1	1191.4	1189.3	1190.0	1188.6	1186.5
10°	1257.6	1255.5	1259.0	1259.0	1256.2	1255.5	1254.1	1252.0	1252.0	1249.9	1249.9
12.5°	1332.9	1330.8	1335.6	1332.2	1328.0	1327.3	1323.1	1321.7	1323.8	1323.1	1321.7
15°	1409.5	1410.2	1412.3	1411.6	1406.7	1406.7	1401.1	1401.8	1397.7	1396.3	1392.8
17.5°	1484.0	1484.7	1482.7	1482.7	1479.2	1477.1	1470.8	1471.5	1468.7	1463.1	1459.0
20°	1550.9	1550.2	1545.4	1549.5	1542.6	1541.2	1535.6	1530.0	1531.4	1525.9	1517.5
22.5°	1616.4	1615.0	1613.6	1611.5	1608.1	1606.7	1600.4	1599.7	1592.7	1584.4	1577.4
25°	1692.4	1691.7	1689.6	1690.3	1683.3	1684.0	1672.9	1670.1	1665.9	1656.8	1651.3
27.5°	1790.6	1790.6	1785.0	1782.9	1780.9	1778.1	1768.3	1761.3	1750.9	1740.4	1729.3
30°	1911.1	1909.8	1908.4	1902.8	1895.1	1890.9	1873.5	1862.4	1848.4	1828.9	1812.2
32.5°	2083.2	2071.4	2061.6	2049.1	2036.6	2023.3	1996.1	1977.3	1955.0	1923.7	1897.2
35°	2274.8	2254.6	2244.2	2218.4	2194.7	2168.2	2135.5	2097.2	2066.5	2025.4	1982.2
37.5°	2433.0	2417.7	2389.8	2360.5	2327.1	2276.9	2240.0	2198.9	2145.2	2100.0	2047.7
40°	2628.1	2593.2	2553.5	2504.8	2458.8	2402.3	2351.5	2292.3	2226.8	2161.3	2093.0
42.5°	2832.9	2779.3	2713.8	2657.3	2587.7	2513.8	2447.6	2367.5	2283.9	2196.1	2104.8
45°	3041.9	2975.8	2888.7	2808.5	2711.7	2619.0	2524.3	2414.9	2300.6	2183.6	2068.6
47.5°	3233.5	3136.7	3037.8	2929.8	2818.3	2699.2	2564.7	2421.2	2270.7	2116.7	1973.2
50°	3384.0	3262.8	3138.1	3013.4	2876.8	2722.1	2552.8	2365.4	2180.1	1995.5	1830.3
52.5°	3517.1	3381.3	3228.0	3073.3	2904.7	2714.5	2502.7	2281.8	2056.1	1851.9	1666.6
55°	3774.9	3604.2	3402.2	3202.9	2989.7	2750.0	2486.0	2215.6	1955.7	1733.5	1536.3
57.5°	4475.1	4244.5	3931.7	3655.1	3384.7	3035.7	2663.6	2330.6	1999.6	1737.0	1517.5
60°	5578.1	5202.5	4844.4	4422.9	3985.3	3506.7	3007.8	2559.1	2155.7	1826.1	1562.1
62.5°	6217.7	5821.2	5360.7	4850.0	4282.8	3699.7	3126.9	2603.0	2160.6	1801.8	1509.1
65°	6044.9	5646.3	5139.8	4617.3	4013.9	3417.5	2849.0	2345.9	1916.7	1585.1	1305.0
67.5°	5532.1	5115.4	4639.6	4059.9	3483.0	2930.5	2412.1	1938.3	1558.6	1249.2	1001.9
70°	4785.9	4415.2	3956.8	3422.4	2862.9	2366.1	1929.3	1502.2	1181.0	897.4	702.3
72.5°	3552.0	3223.8	2937.4	2490.8	2081.1	1691.7	1335.6	1045.1	768.5	581.1	447.3
75°	1491.0	1380.2	1333.6	1169.8	1017.2	834.0	627.8	500.3	405.5	344.9	273.8
77.5°	361.6	361.6	340.0	318.4	292.6	264.8	234.1	209.0	196.5	185.3	176.3
80°	175.6	174.2	168.6	167.9	163.0	156.8	153.3	148.4	146.3	143.5	142.1
82.5°	123.3	122.6	120.5	123.3	122.6	125.4	126.8	127.5	127.5	128.2	128.9
85°	78.0	80.8	86.4	93.4	99.6	107.3	114.3	119.8	124.0	127.5	130.3
87.5°	49.5	56.4	60.6	71.1	81.5	93.4	106.6	112.2	117.1	117.7	113.6
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: P144863

CATALOG NUMBER: LDRL-SL2-F05-E-8030

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	1108.5	1108.5	1108.5	1108.5	1108.5	1108.5	1108.5	1108.5	1108.5	1108.5	1108.5
2.5°	1114.1	1113.4	1114.8	1113.4	1113.4	1112.7	1110.6	1108.5	1106.4	1105.7	1103.6
5°	1141.3	1141.3	1142.6	1139.9	1140.6	1137.8	1131.5	1124.5	1118.3	1112.7	1106.4
7.5°	1187.2	1185.1	1185.8	1185.1	1183.8	1178.2	1164.2	1146.8	1130.1	1112.7	1098.8
10°	1248.6	1244.4	1244.4	1243.0	1240.9	1233.2	1204.0	1169.1	1134.3	1102.9	1079.9
12.5°	1316.8	1317.5	1312.0	1308.5	1305.0	1289.0	1245.1	1189.3	1134.3	1084.1	1047.2
15°	1387.9	1387.2	1380.9	1378.8	1371.2	1347.5	1281.3	1199.8	1121.0	1047.2	992.2
17.5°	1452.0	1449.2	1442.9	1438.8	1430.4	1399.0	1305.7	1194.9	1086.2	989.4	920.4
20°	1510.5	1507.0	1501.5	1493.8	1485.4	1440.2	1314.7	1169.8	1031.2	920.4	850.7
22.5°	1571.1	1563.5	1557.2	1546.8	1537.7	1477.1	1308.5	1125.2	968.5	843.7	769.2
25°	1638.7	1629.7	1616.4	1603.9	1590.0	1507.0	1291.1	1069.5	893.2	760.8	685.6
27.5°	1711.9	1698.6	1681.2	1665.2	1642.9	1529.3	1261.1	1007.5	811.0	678.6	600.6
30°	1789.2	1764.8	1743.2	1718.8	1690.3	1539.8	1217.9	930.8	720.4	595.0	517.0
32.5°	1864.5	1831.7	1799.7	1764.1	1725.1	1535.6	1156.6	840.3	629.8	517.0	451.5
35°	1941.1	1893.7	1849.1	1801.1	1753.7	1514.7	1072.3	739.9	544.2	452.2	404.8
37.5°	1993.4	1934.1	1874.9	1817.1	1760.0	1469.4	960.1	627.8	466.8	405.5	371.4
40°	2019.8	1947.4	1874.9	1803.2	1732.8	1394.2	829.1	525.3	411.8	370.7	346.3
42.5°	2012.2	1922.3	1832.4	1747.4	1661.0	1274.3	687.0	441.0	373.5	343.5	321.9
45°	1948.8	1841.5	1739.1	1649.2	1541.2	1120.4	564.4	388.8	344.2	321.2	301.0
47.5°	1829.6	1709.8	1584.4	1482.7	1381.6	942.0	469.6	356.0	318.4	299.6	279.4
50°	1677.7	1539.1	1413.7	1303.6	1204.7	775.5	404.8	328.2	297.5	281.5	259.9
52.5°	1510.5	1361.4	1247.2	1131.5	1034.7	647.3	359.5	297.5	277.3	260.6	243.2
55°	1371.9	1233.9	1117.6	1001.2	903.7	566.4	321.9	273.8	258.5	241.1	227.1
57.5°	1334.9	1177.5	1050.7	940.6	840.3	517.0	294.7	252.2	241.8	228.5	213.2
60°	1350.3	1176.8	1034.7	914.1	808.9	477.3	274.5	237.6	229.2	217.4	201.4
62.5°	1295.2	1112.0	968.5	840.3	740.6	427.1	259.9	230.6	225.0	209.0	190.9
65°	1103.6	935.7	797.8	687.0	601.3	359.5	248.0	236.9	231.3	203.4	183.9
67.5°	840.3	700.2	589.4	506.5	444.5	297.5	245.3	257.8	246.6	206.2	181.8
70°	581.1	475.2	404.1	353.9	314.9	250.8	254.3	280.8	264.8	215.3	193.7
72.5°	368.6	308.0	273.1	254.3	235.5	211.8	252.2	278.0	256.4	216.7	193.7
75°	236.2	211.1	199.3	192.3	186.7	184.6	222.3	228.5	206.2	188.1	180.5
77.5°	167.2	163.0	160.9	160.2	160.9	165.8	183.9	172.1	149.8	150.5	154.7
80°	141.4	141.4	140.0	140.7	142.1	144.2	147.0	126.8	115.0	124.0	138.0
82.5°	129.6	131.7	133.1	134.5	136.6	133.8	124.7	96.1	92.7	120.5	135.2
85°	131.7	131.7	132.4	133.8	134.5	120.5	103.8	72.5	71.1	135.2	127.5
87.5°	112.9	111.5	106.6	103.1	98.2	82.9	69.0	40.4	41.8	83.6	89.2
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: P144863
CATALOG NUMBER: LDRL-SL2-F05-E-8030

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	1108.5	1108.5
2.5°	1102.9	1102.9
5°	1102.9	1102.9
7.5°	1093.9	1091.1
10°	1067.4	1063.9
12.5°	1027.0	1023.5
15°	965.0	960.8
17.5°	887.6	880.7
20°	806.8	797.1
22.5°	726.0	718.3
25°	643.1	636.1
27.5°	561.6	554.6
30°	486.3	483.5
32.5°	430.6	427.8
35°	389.5	388.1
37.5°	361.6	360.2
40°	337.2	335.8
42.5°	314.9	312.8
45°	292.6	293.3
47.5°	270.3	269.6
50°	250.8	250.8
52.5°	234.8	234.1
55°	220.2	219.5
57.5°	205.5	204.8
60°	193.0	190.9
62.5°	181.2	179.8
65°	173.5	172.8
67.5°	167.9	165.8
70°	166.5	160.9
72.5°	162.3	155.4
75°	152.6	149.1
77.5°	134.5	130.3
80°	103.8	96.1
82.5°	87.1	75.2
85°	64.1	59.2
87.5°	46.7	36.9
90°	0.0	0.0

(END OF REPORT)