

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: P146358

Luminaire Tested: **LDRL-T2-E05-E-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146358
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-E05-E-8030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (105) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12653.8 lumens
Efficiency: N/A
Efficacy: 99.4 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

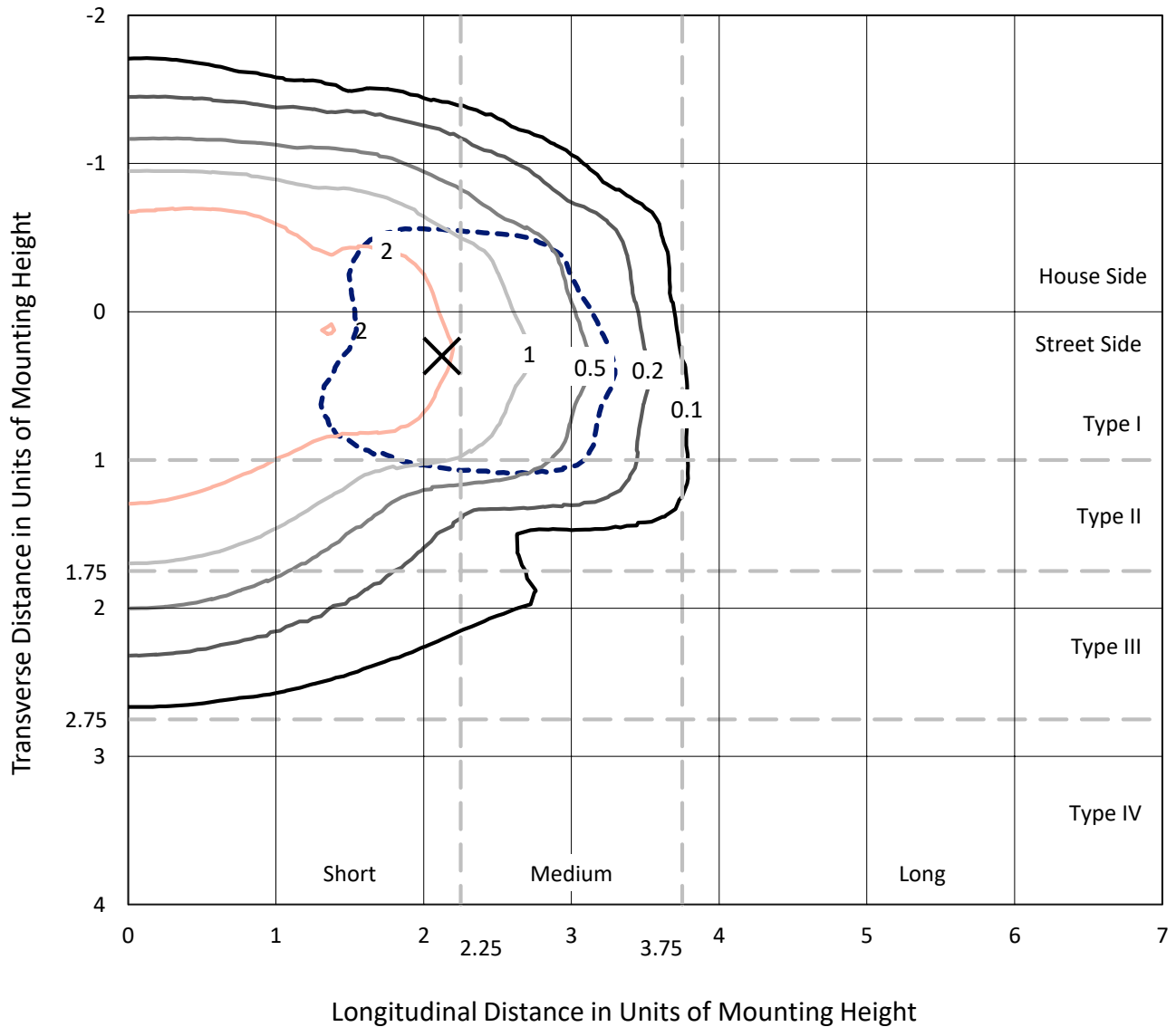
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

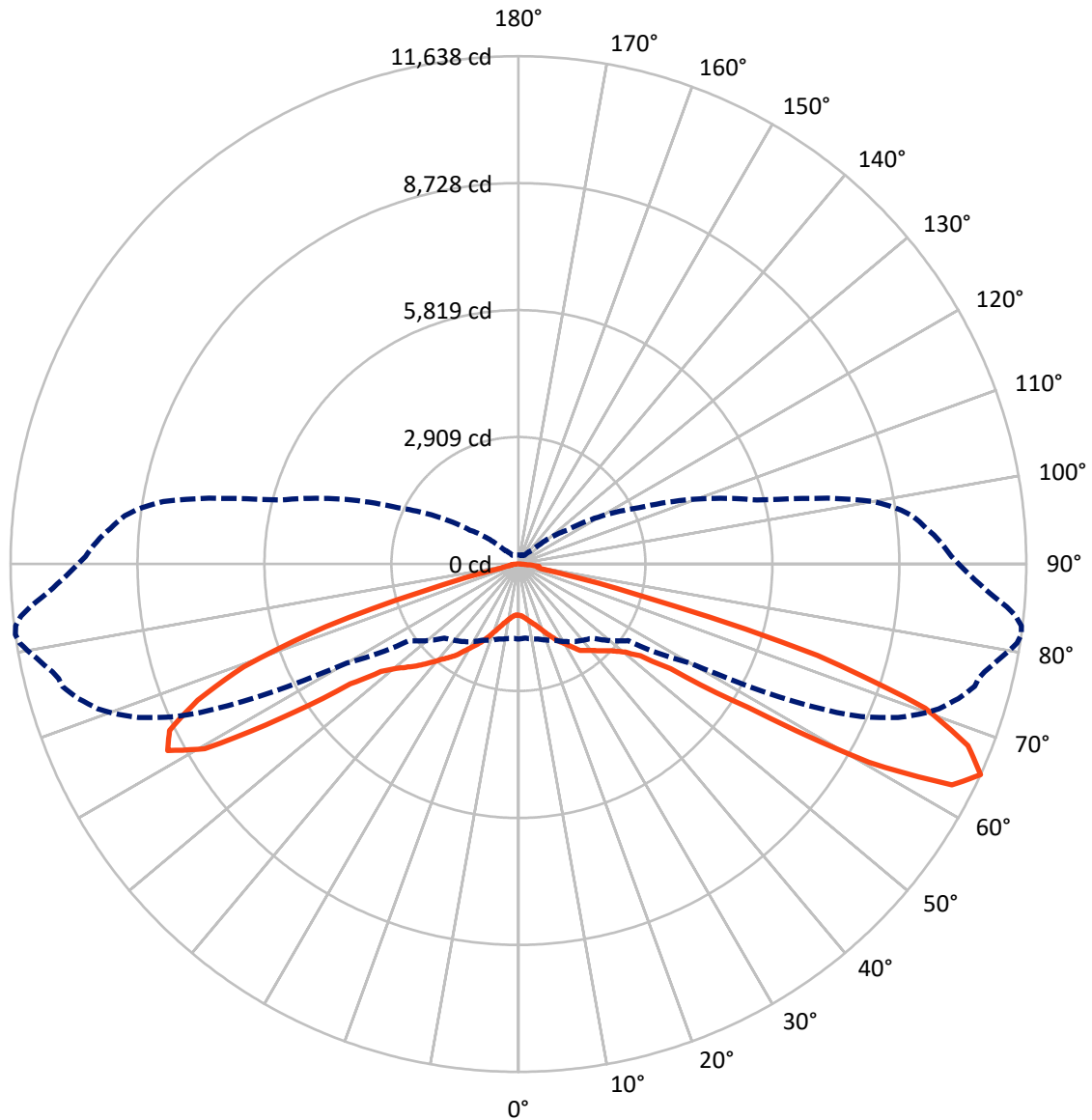
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4658.0	0.0	4658.0
	% Fixture	36.8	0.0	36.8
Street Side	Lumens	7995.9	0.0	7995.9
	% Fixture	63.2	0.0	63.2
Total	Lumens	12653.8	0.0	12653.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.9	0.9
10°-20°	419.0	3.3
20°-30°	831.2	6.6
30°-40°	1418.2	11.2
40°-50°	2126.7	16.8
50°-60°	2960.1	23.4
60°-70°	3400.8	26.9
70°-80°	1173.6	9.3
80°-90°	205.2	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°	12653.8	100.0
0°-180°	12653.8	100.0



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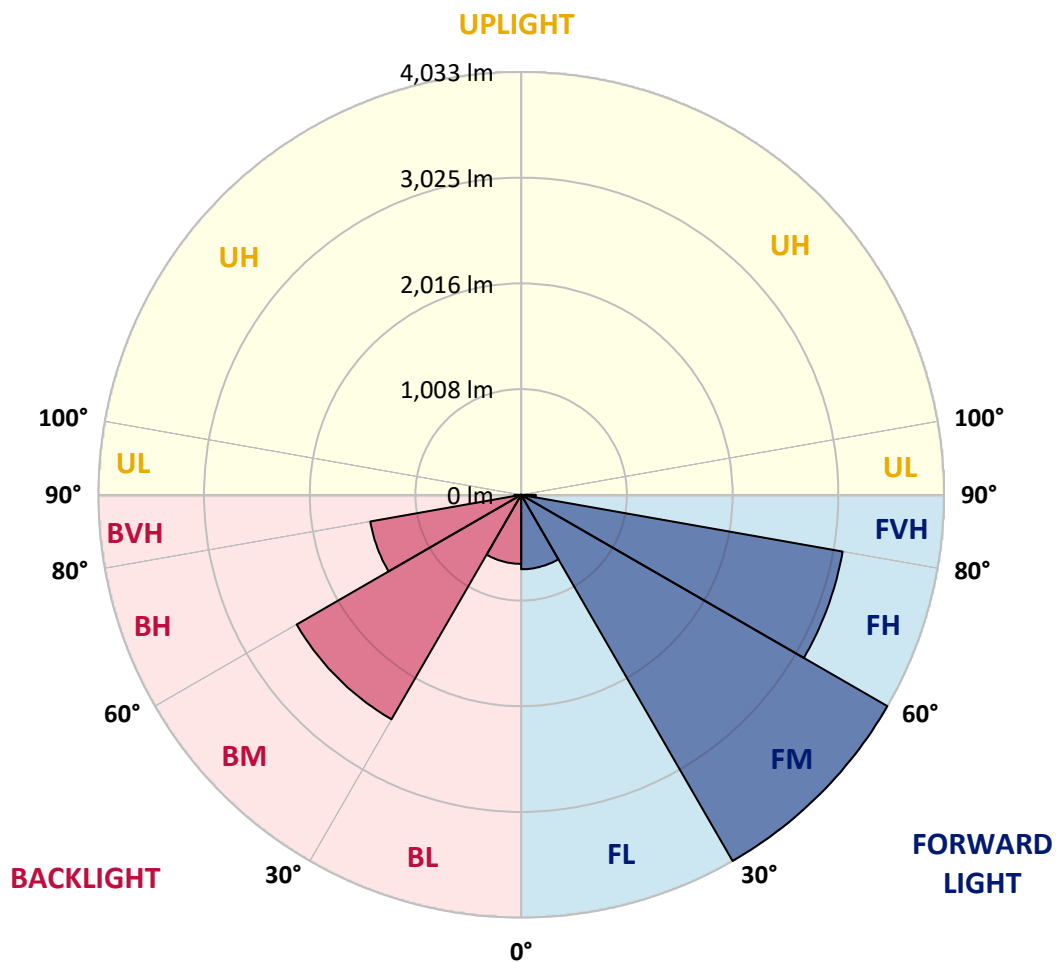
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	710.3	5.6			
FM	(30°-60°)	4032.9	31.9			
FH	(60°-80°)	3113.3	24.6			G2/5000
FVH	(80°-90°)	139.4	1.1			G2/225
BL	(0°-30°)	658.9	5.2	B2/1000		
BM	(30°-60°)	2472.1	19.5	B2/2500		
BH	(60°-80°)	1461.1	11.5	B3/2500		G3/2500
BVH	(80°-90°)	65.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3
2.5°	1237.3	1236.4	1235.6	1232.2	1230.5	1223.8	1217.0	1212.8	1209.4	1211.1	1206.1
5°	1309.0	1309.0	1305.7	1301.4	1296.4	1287.1	1270.2	1261.8	1260.1	1260.1	1254.2
7.5°	1382.5	1387.5	1378.2	1374.9	1366.4	1352.1	1332.7	1321.7	1318.3	1318.3	1313.2
10°	1475.3	1472.8	1462.6	1455.9	1439.0	1419.6	1393.4	1380.8	1375.7	1379.9	1371.5
12.5°	1573.2	1572.4	1557.2	1544.5	1520.9	1489.6	1455.0	1438.2	1434.8	1434.8	1429.7
15°	1672.8	1673.6	1656.8	1633.1	1596.0	1553.8	1515.0	1498.9	1494.7	1493.0	1487.1
17.5°	1748.7	1757.2	1740.3	1709.9	1664.4	1617.9	1576.6	1560.5	1559.7	1558.0	1551.3
20°	1791.8	1793.5	1784.2	1762.3	1721.7	1677.0	1648.3	1640.7	1639.9	1640.7	1642.4
22.5°	1790.1	1792.6	1789.3	1780.8	1754.7	1730.2	1726.8	1731.0	1733.6	1731.0	1736.9
25°	1776.6	1780.0	1780.0	1784.2	1777.4	1785.9	1812.9	1824.7	1825.6	1827.2	1839.9
27.5°	1806.1	1809.5	1808.7	1816.3	1822.2	1851.7	1900.7	1921.8	1924.3	1930.2	1942.0
30°	1942.9	1943.7	1928.5	1927.7	1933.6	1957.2	2007.0	2031.5	2029.0	2040.8	2048.4
32.5°	2158.9	2165.7	2150.5	2134.5	2131.9	2135.3	2144.6	2161.5	2158.9	2164.8	2175.0
35°	2405.4	2406.2	2397.8	2407.1	2412.1	2389.3	2345.5	2341.2	2327.7	2330.3	2333.6
37.5°	2631.6	2637.5	2653.5	2712.6	2746.3	2690.6	2604.6	2550.5	2542.1	2537.9	2508.3
40°	2843.4	2872.9	2911.8	2988.6	3035.0	3055.2	2932.9	2824.0	2794.5	2782.6	2736.2
42.5°	3091.5	3106.7	3152.3	3240.1	3301.7	3393.7	3311.8	3192.0	3157.4	3106.7	3048.5
45°	3301.7	3311.8	3340.5	3414.8	3543.9	3697.5	3706.8	3623.3	3596.2	3545.6	3460.4
47.5°	3442.6	3441.8	3462.9	3535.5	3703.4	3938.1	4077.3	4073.9	4042.7	4025.0	3952.4
50°	3497.5	3496.7	3510.2	3591.2	3774.3	4081.5	4388.8	4494.3	4493.4	4500.2	4463.0
52.5°	3507.6	3506.8	3508.5	3573.5	3760.0	4131.3	4613.3	4862.2	4898.5	4944.1	4985.5
55°	3431.7	3440.1	3458.7	3527.0	3706.0	4111.1	4779.5	5207.4	5294.4	5387.2	5537.4
57.5°	3256.1	3272.2	3336.3	3458.7	3648.6	4061.3	4895.1	5634.5	5810.9	6035.4	6442.2
60°	3004.6	3019.0	3107.6	3269.6	3481.5	3844.4	4761.0	5813.4	6148.5	6538.4	7372.3
62.5°	2559.8	2600.3	2647.6	2762.4	2984.4	3276.4	4158.3	5511.3	6030.3	6602.5	7750.4
65°	1719.2	1702.3	1780.8	1926.8	2170.7	2397.8	3063.7	4545.7	5202.4	5989.8	7410.2
67.5°	1064.3	1066.8	1120.0	1262.6	1446.6	1623.0	1942.0	2897.4	3479.8	4228.4	5936.6
70°	879.4	889.6	932.6	1065.1	1222.1	1421.3	1441.5	1536.1	1796.9	2158.9	3667.1
72.5°	698.0	702.2	746.1	856.7	1078.6	1352.1	1711.6	1167.2	1147.0	1201.8	1860.2
75°	433.0	436.3	458.3	529.2	699.7	1053.3	1884.6	1341.9	1257.5	1186.7	1198.5
77.5°	223.7	230.4	242.2	274.3	367.1	588.3	1483.7	1701.5	1605.3	1509.1	1320.8
80°	126.6	126.6	137.6	145.2	173.9	239.7	754.5	1841.6	2012.1	2053.4	1844.1
82.5°	56.5	63.3	85.2	91.2	99.6	109.7	249.8	1106.5	1535.2	1917.5	2369.9
85°	33.8	32.9	54.0	59.1	61.6	52.3	93.7	451.5	717.4	1049.9	1570.7
87.5°	13.5	14.3	22.8	24.5	28.7	21.1	35.4	97.1	142.6	206.8	292.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3
2.5°	1205.2	1205.2	1204.4	1203.5	1202.7	1200.2	1199.3	1197.6	1196.8	1194.2	1193.4
5°	1253.3	1250.8	1250.0	1248.3	1247.4	1244.0	1244.0	1240.7	1238.1	1234.8	1233.9
7.5°	1310.7	1307.3	1304.8	1303.1	1302.3	1296.4	1296.4	1291.3	1290.5	1286.2	1284.6
10°	1369.0	1366.4	1363.0	1361.4	1360.5	1357.1	1353.8	1350.4	1347.9	1345.3	1341.9
12.5°	1427.2	1422.1	1420.4	1417.9	1416.2	1413.7	1412.8	1405.2	1405.2	1402.7	1399.3
15°	1483.7	1482.9	1477.0	1476.1	1474.5	1475.3	1470.2	1471.1	1468.5	1464.3	1462.6
17.5°	1552.9	1547.0	1549.6	1545.3	1546.2	1544.5	1542.8	1542.0	1543.7	1542.8	1544.5
20°	1639.0	1637.3	1639.9	1634.0	1639.9	1640.7	1639.0	1643.3	1641.6	1643.3	1638.2
22.5°	1741.2	1735.2	1735.2	1739.5	1742.0	1749.6	1745.4	1748.7	1752.1	1754.7	1751.3
25°	1844.1	1842.4	1845.8	1849.2	1854.2	1861.0	1859.3	1860.2	1866.9	1871.1	1872.0
27.5°	1948.8	1948.8	1958.9	1958.9	1965.7	1973.3	1975.8	1979.2	1984.2	1990.1	1990.1
30°	2056.8	2056.8	2066.1	2074.5	2077.9	2087.2	2092.3	2097.3	2106.6	2108.3	2115.9
32.5°	2180.0	2182.6	2191.8	2196.9	2204.5	2215.5	2217.2	2223.1	2234.0	2237.4	2243.3
35°	2340.4	2331.9	2340.4	2349.7	2353.9	2350.5	2369.1	2376.7	2384.3	2388.5	2396.1
37.5°	2505.8	2491.5	2492.3	2490.6	2480.5	2486.4	2486.4	2484.7	2489.8	2488.9	2492.3
40°	2715.1	2689.8	2682.2	2666.2	2644.2	2632.4	2619.7	2618.1	2605.4	2610.5	2601.2
42.5°	3002.1	2964.1	2943.8	2894.0	2867.0	2835.0	2803.7	2776.7	2762.4	2746.3	2734.5
45°	3396.2	3351.5	3302.5	3222.4	3175.9	3111.8	3070.4	3008.8	2967.5	2932.9	2908.4
47.5°	3890.8	3815.7	3776.0	3700.9	3619.9	3522.8	3434.2	3348.1	3278.1	3202.1	3142.2
50°	4465.6	4371.9	4340.6	4241.1	4195.5	4086.6	3992.1	3885.7	3776.0	3661.2	3551.5
52.5°	4974.5	4963.5	4976.2	4909.5	4907.8	4852.9	4748.3	4624.2	4522.1	4406.5	4262.2
55°	5584.7	5693.6	5717.2	5707.9	5757.7	5756.0	5745.9	5733.2	5652.2	5488.5	5438.7
57.5°	6661.6	6784.0	6964.6	7046.5	7227.1	7248.2	7415.3	7350.3	7474.4	7440.6	7463.4
60°	7758.0	8133.5	8476.2	8737.0	8990.2	9220.6	9502.5	9623.2	9713.5	9854.4	10003.0
62.5°	8248.3	8721.8	9130.3	9501.6	9816.5	10108.5	10350.7	10580.3	10760.9	10922.9	11047.8
65°	8050.0	8599.4	8997.8	9385.2	9678.9	9950.7	10191.2	10363.4	10543.1	10690.0	10822.5
67.5°	6702.1	7433.9	7953.8	8393.5	8762.3	9072.1	9321.9	9559.0	9686.5	9846.8	9918.6
70°	4439.4	5377.9	6113.0	6707.2	7292.1	7643.2	7939.4	8215.4	8360.6	8490.5	8570.7
72.5°	2438.3	3079.7	3864.6	4571.1	5133.2	5594.0	5939.2	6200.8	6350.2	6461.6	6346.0
75°	1381.6	1698.1	2082.1	2472.9	2899.1	3224.0	3315.2	3426.6	3452.8	3395.4	3246.8
77.5°	1270.2	1270.2	1271.1	1261.8	1280.3	1303.1	1289.6	1266.8	1163.9	1141.1	1109.0
80°	1651.7	1471.9	1279.5	1050.8	856.7	722.5	681.1	684.5	717.4	781.5	852.4
82.5°	2341.2	2164.0	1886.3	1537.8	1223.8	960.5	787.4	708.1	707.3	771.4	863.4
85°	1707.4	1721.7	1660.1	1468.5	1171.5	922.5	745.2	572.2	516.5	516.5	509.8
87.5°	298.8	308.1	265.9	238.0	166.3	117.3	105.5	92.8	92.0	95.4	87.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3
2.5°	1193.4	1191.7	1190.0	1189.2	1189.2	1187.5	1187.5	1185.8	1186.7	1185.8	1183.3
5°	1232.2	1231.4	1228.9	1224.6	1223.8	1220.4	1221.3	1217.9	1217.9	1216.2	1212.0
7.5°	1281.2	1279.5	1277.8	1274.4	1271.1	1271.1	1265.1	1265.1	1260.9	1259.2	1255.9
10°	1339.4	1334.3	1331.8	1328.4	1327.6	1326.8	1320.8	1320.8	1315.8	1314.9	1312.4
12.5°	1396.8	1393.4	1390.9	1389.2	1385.0	1384.1	1381.6	1379.1	1376.5	1374.9	1374.0
15°	1459.3	1457.6	1455.0	1455.0	1455.0	1450.8	1448.3	1446.6	1446.6	1444.1	1445.8
17.5°	1540.3	1542.8	1539.4	1537.8	1535.2	1539.4	1535.2	1535.2	1537.8	1537.8	1531.8
20°	1640.7	1644.1	1640.7	1641.6	1639.9	1640.7	1641.6	1643.3	1646.6	1640.7	1641.6
22.5°	1752.1	1753.0	1755.5	1753.0	1757.2	1754.7	1759.7	1763.9	1763.1	1761.4	1762.3
25°	1873.7	1871.1	1872.0	1879.6	1885.5	1883.8	1884.6	1891.4	1889.7	1888.0	1888.9
27.5°	1996.9	1995.2	1997.7	2004.5	2011.2	2010.4	2008.7	2013.8	2013.8	2009.5	2011.2
30°	2119.3	2121.8	2126.0	2126.0	2129.4	2132.8	2130.2	2136.1	2137.0	2133.6	2137.8
32.5°	2248.4	2253.5	2251.8	2263.6	2263.6	2264.4	2267.0	2266.1	2274.6	2267.8	2270.3
35°	2403.7	2405.4	2415.5	2423.9	2429.0	2433.2	2433.2	2435.8	2440.0	2436.6	2441.7
37.5°	2498.2	2501.6	2505.0	2510.0	2510.0	2510.0	2514.2	2515.1	2517.6	2516.8	2518.5
40°	2602.0	2602.9	2603.7	2604.6	2607.9	2609.6	2605.4	2611.3	2607.1	2608.8	2611.3
42.5°	2727.8	2716.0	2717.7	2715.1	2721.0	2713.4	2715.1	2721.9	2718.5	2723.6	2723.6
45°	2873.8	2860.3	2848.5	2841.7	2841.7	2831.6	2833.3	2835.8	2840.0	2846.8	2858.6
47.5°	3089.9	3043.4	3020.6	2997.0	2985.2	2972.5	2976.8	2977.6	2979.3	2990.3	3019.8
50°	3443.5	3365.8	3305.9	3234.2	3207.2	3185.2	3172.6	3173.4	3173.4	3196.2	3225.7
52.5°	4127.1	3982.8	3840.2	3715.2	3608.1	3556.6	3496.7	3481.5	3482.3	3501.7	3522.0
55°	5307.9	5109.5	4958.4	4680.8	4596.4	4359.2	4234.3	4162.6	4106.9	4133.9	4163.4
57.5°	7426.3	7243.1	7123.3	6791.6	6489.4	6403.4	6198.3	6032.0	5963.6	5884.3	5889.4
60°	10024.9	9930.4	9900.0	9705.9	9597.0	9258.6	9231.6	9021.4	8823.1	8651.8	8721.8
62.5°	11144.1	11187.9	11223.4	11291.8	11317.9	11285.8	11150.0	11057.1	10894.2	10669.7	10532.2
65°	10861.3	10961.8	11112.8	11255.5	11425.9	11567.7	11637.8	11610.8	11463.9	11232.7	10944.0
67.5°	9970.1	10072.2	10202.2	10382.8	10643.6	10919.6	11112.0	11234.4	11117.9	10909.4	10615.7
70°	8566.5	8666.1	8670.3	8922.7	9203.7	9551.4	9892.4	10020.7	9888.2	9748.9	9503.3
72.5°	6416.0	6356.1	6411.8	6458.2	6618.6	6838.0	7168.9	7154.5	6952.0	6843.9	6466.7
75°	3015.6	2975.1	2916.0	2877.2	2840.0	2762.4	2799.5	2640.8	2586.0	2607.9	2282.2
77.5°	1084.5	1028.8	939.4	852.4	742.7	615.3	519.1	455.8	424.5	425.4	406.0
80°	909.8	936.8	924.2	838.1	714.9	581.5	435.5	330.0	281.9	261.6	249.0
82.5°	986.6	1122.5	1190.0	1136.9	960.5	739.3	476.0	287.8	211.0	180.6	173.0
85°	546.9	547.8	530.9	507.2	449.8	308.9	205.9	136.7	109.7	97.9	94.5
87.5°	92.8	88.6	88.6	82.7	72.6	70.9	63.3	59.9	53.2	49.0	47.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: LDRL-T2-E05-E-8030

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3
2.5°	1180.7	1179.1	1178.2	1177.4	1177.4	1176.5	1176.5	1174.8	1173.1	1172.3	1171.5
5°	1207.8	1206.1	1204.4	1202.7	1202.7	1201.0	1199.3	1197.6	1195.1	1190.9	1190.0
7.5°	1253.3	1250.0	1250.0	1244.0	1244.0	1240.7	1238.1	1238.1	1234.8	1228.0	1227.2
10°	1309.9	1304.0	1301.4	1298.1	1296.4	1293.0	1293.0	1289.6	1287.9	1285.4	1277.0
12.5°	1370.6	1366.4	1364.7	1360.5	1358.0	1358.0	1356.3	1350.4	1354.6	1348.7	1344.5
15°	1444.1	1443.2	1435.6	1438.2	1437.3	1436.5	1437.3	1432.3	1431.4	1431.4	1426.3
17.5°	1536.1	1529.3	1530.2	1530.2	1531.8	1531.8	1525.1	1528.5	1529.3	1527.6	1525.9
20°	1644.1	1641.6	1644.1	1639.0	1644.1	1644.1	1647.5	1646.6	1647.5	1649.2	1649.2
22.5°	1759.7	1766.5	1767.3	1769.0	1763.1	1773.2	1773.2	1774.9	1779.1	1779.1	1780.8
25°	1899.8	1896.4	1892.2	1898.1	1899.8	1906.6	1908.3	1908.3	1915.0	1915.0	1917.5
27.5°	2016.3	2019.7	2018.8	2022.2	2020.5	2029.8	2033.2	2043.3	2040.8	2045.8	2052.6
30°	2136.1	2142.9	2139.5	2140.4	2144.6	2150.5	2157.2	2167.4	2169.1	2182.6	2185.9
32.5°	2274.6	2279.6	2283.8	2285.5	2285.5	2295.7	2306.6	2310.0	2327.7	2337.9	2349.7
35°	2450.1	2450.9	2453.5	2456.0	2454.3	2465.3	2476.3	2479.6	2498.2	2500.7	2525.2
37.5°	2524.4	2526.1	2536.2	2541.3	2544.6	2558.1	2578.4	2593.6	2613.8	2633.3	2661.1
40°	2617.2	2627.3	2636.6	2644.2	2656.9	2675.5	2706.7	2721.9	2752.3	2788.5	2815.6
42.5°	2734.5	2753.1	2759.9	2774.2	2805.4	2828.2	2859.4	2892.4	2932.9	2976.8	3008.8
45°	2873.8	2891.5	2916.8	2932.9	2969.2	3005.5	3055.2	3083.9	3125.3	3175.9	3211.4
47.5°	3042.6	3067.1	3092.4	3125.3	3168.3	3206.3	3256.1	3293.3	3334.6	3376.0	3414.8
50°	3252.7	3289.0	3322.8	3357.4	3414.8	3446.9	3495.8	3534.6	3573.5	3614.8	3650.3
52.5°	3535.5	3590.3	3633.4	3657.0	3734.7	3766.7	3826.7	3853.7	3885.7	3922.9	3968.4
55°	4152.4	4237.7	4310.3	4352.5	4470.6	4512.8	4590.5	4630.1	4608.2	4655.5	4737.3
57.5°	5936.6	6041.3	6128.2	6185.6	6306.3	6365.4	6369.6	6518.1	6430.4	6517.3	6530.0
60°	8535.3	8618.0	8596.9	8597.7	8559.8	8504.9	8610.4	8450.0	8517.6	8521.8	8370.7
62.5°	10278.1	10151.5	10092.4	9994.5	9880.6	9792.8	9732.9	9603.8	9500.8	9418.9	9259.4
65°	10688.3	10468.9	10274.7	10091.6	9923.6	9807.2	9680.6	9542.2	9381.0	9245.1	9089.8
67.5°	10291.6	9984.4	9696.6	9455.2	9225.7	9072.1	8888.9	8757.2	8554.7	8375.8	8257.6
70°	9141.3	8715.9	8380.0	8225.5	7997.7	7667.7	7493.0	7328.4	7204.3	7042.3	6970.5
72.5°	6412.6	5887.7	5628.6	5638.7	5407.4	5171.1	5177.0	5076.6	4916.2	4911.2	4886.7
75°	2356.4	2143.7	1994.4	2001.1	1915.0	1823.0	1848.3	1875.3	1823.0	1929.4	1764.8
77.5°	374.7	364.6	361.2	353.6	335.1	348.6	339.3	357.0	359.5	379.0	380.6
80°	238.8	228.7	226.2	222.0	221.1	221.1	219.4	219.4	219.4	220.3	218.6
82.5°	159.5	153.6	152.8	150.2	154.5	155.3	156.1	162.9	168.8	170.5	177.2
85°	86.9	82.7	82.7	81.0	84.4	85.2	92.8	102.1	113.9	119.0	130.0
87.5°	43.9	46.4	45.6	47.3	49.8	55.7	61.6	67.5	74.3	83.6	91.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: LDRL-T2-E05-E-8030

CANDELA DISTRIBUTION (continued):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3
2.5°	1169.8	1168.9	1168.9	1167.2	1167.2	1166.4	1164.7	1163.0	1155.4	1146.1	1140.2
5°	1187.5	1185.8	1185.0	1183.3	1180.7	1180.7	1178.2	1174.8	1160.5	1145.3	1136.0
7.5°	1223.8	1222.9	1220.4	1217.0	1213.7	1210.3	1208.6	1206.9	1185.0	1170.6	1163.9
10°	1276.1	1275.3	1269.4	1268.5	1263.5	1264.3	1260.1	1256.7	1242.4	1226.3	1217.0
12.5°	1342.8	1346.2	1342.8	1335.2	1336.9	1334.3	1330.1	1325.9	1313.2	1300.6	1286.2
15°	1425.5	1421.3	1417.9	1424.7	1418.7	1417.9	1420.4	1421.3	1406.1	1392.6	1372.3
17.5°	1528.5	1528.5	1526.8	1528.5	1525.1	1527.6	1525.9	1527.6	1520.9	1502.3	1472.8
20°	1645.8	1652.5	1652.5	1650.0	1649.2	1654.2	1656.8	1647.5	1649.2	1633.1	1580.0
22.5°	1782.5	1787.6	1789.3	1786.7	1787.6	1794.3	1798.5	1791.8	1807.0	1780.8	1699.0
25°	1923.5	1931.1	1927.7	1928.5	1935.3	1942.9	1950.5	1943.7	1973.3	1932.7	1825.6
27.5°	2062.7	2069.5	2067.8	2072.8	2083.8	2093.9	2102.4	2099.8	2148.8	2095.6	1958.9
30°	2194.4	2210.4	2213.8	2219.7	2233.2	2250.1	2263.6	2262.7	2326.0	2254.3	2067.8
32.5°	2356.4	2374.1	2380.9	2393.6	2419.7	2431.5	2448.4	2450.1	2513.4	2393.6	2159.8
35°	2543.8	2561.5	2575.9	2585.1	2614.7	2629.0	2645.9	2653.5	2695.7	2523.5	2223.9
37.5°	2689.0	2704.1	2732.0	2751.4	2777.6	2806.3	2825.7	2835.0	2858.6	2634.9	2253.5
40°	2847.6	2880.5	2907.5	2937.1	2965.8	2988.6	3006.3	3020.6	3011.4	2727.8	2240.8
42.5°	3048.5	3083.1	3119.4	3144.7	3159.9	3190.3	3198.7	3208.9	3132.9	2770.0	2183.4
45°	3257.8	3285.7	3316.0	3334.6	3354.9	3370.1	3372.6	3373.4	3223.2	2745.5	2079.6
47.5°	3459.5	3483.2	3504.3	3514.4	3524.5	3525.4	3521.1	3514.4	3271.3	2662.8	1954.7
50°	3680.6	3695.0	3704.3	3705.1	3714.4	3696.7	3684.9	3653.6	3266.2	2536.2	1823.0
52.5°	3998.8	3995.5	3983.6	3982.8	3953.3	3919.5	3897.6	3852.8	3231.6	2399.5	1671.1
55°	4729.7	4697.7	4734.8	4640.3	4561.8	4509.4	4385.4	4295.1	3266.2	2272.0	1496.4
57.5°	6486.1	6376.4	6388.2	6235.4	6068.3	5755.2	5570.3	5320.5	3538.0	2201.1	1276.1
60°	8338.6	8158.0	7987.5	7716.6	7361.3	6963.8	6605.9	6215.1	3808.1	2114.2	1041.5
62.5°	9103.3	8870.3	8574.1	8191.8	7735.2	7242.3	6747.7	6302.1	3659.5	1852.6	750.3
65°	8856.8	8578.3	8262.7	7763.9	7245.7	6672.6	6130.8	5659.8	3047.7	1354.6	453.2
67.5°	7981.6	7741.9	7352.8	6881.9	6240.5	5665.7	5129.8	4694.3	2246.7	837.2	259.9
70°	6720.7	6389.0	6056.5	5604.1	4928.1	4386.2	3887.4	3502.6	1425.5	413.6	191.6
72.5°	4638.6	4376.1	4110.2	3705.1	3200.4	2827.4	2398.6	2082.1	746.1	222.8	176.4
75°	1807.0	1778.3	1747.9	1563.9	1392.6	1115.8	979.9	883.7	310.6	193.3	173.9
77.5°	396.7	420.3	433.8	411.0	391.6	349.4	334.2	298.8	207.6	198.3	172.2
80°	218.6	218.6	218.6	221.1	216.9	216.9	214.4	210.2	194.1	198.3	168.8
82.5°	178.9	181.5	184.8	185.7	184.8	185.7	184.0	183.1	189.9	199.2	160.4
85°	136.7	145.2	150.2	157.0	163.7	168.0	169.6	170.5	174.7	189.1	140.1
87.5°	97.1	103.8	114.8	116.5	124.1	133.4	136.7	141.8	139.3	143.5	65.8
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: P146358
 CATALOG NUMBER: LDRL-T2-E05-E-8030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	1172.3	1172.3	1172.3	1172.3	1172.3
2.5°	1135.2	1128.4	1125.9	1125.0	1123.4
5°	1128.4	1124.2	1120.8	1118.3	1120.0
7.5°	1158.8	1156.3	1150.4	1148.7	1151.2
10°	1212.8	1206.9	1198.5	1199.3	1198.5
12.5°	1280.3	1264.3	1250.8	1244.9	1240.7
15°	1349.5	1318.3	1290.5	1277.8	1272.7
17.5°	1426.3	1373.2	1330.1	1307.3	1303.1
20°	1507.4	1433.9	1378.2	1351.2	1347.0
22.5°	1601.1	1499.8	1428.9	1391.7	1385.8
25°	1692.2	1558.9	1464.3	1418.7	1411.2
27.5°	1774.9	1603.6	1485.4	1431.4	1423.8
30°	1844.1	1639.0	1503.1	1441.5	1433.1
32.5°	1889.7	1658.4	1509.1	1442.4	1432.3
35°	1904.0	1645.8	1483.7	1406.9	1398.5
37.5°	1873.7	1594.3	1416.2	1329.3	1322.5
40°	1804.5	1498.9	1309.9	1219.6	1211.1
42.5°	1696.4	1378.2	1186.7	1091.3	1083.7
45°	1576.6	1249.1	1055.8	960.5	952.9
47.5°	1445.8	1112.4	918.3	830.5	818.7
50°	1302.3	963.8	778.2	692.1	681.1
52.5°	1134.3	801.8	629.6	552.0	545.2
55°	937.7	638.9	501.3	444.8	438.0
57.5°	729.2	486.1	398.4	370.5	359.5
60°	529.2	369.7	317.3	303.8	297.9
62.5°	359.5	276.0	255.7	251.5	247.3
65°	243.9	216.1	210.2	211.0	208.5
67.5°	192.4	181.5	178.1	179.8	178.9
70°	168.8	160.4	159.5	161.2	160.4
72.5°	159.5	148.5	150.2	152.8	151.9
75°	155.3	143.5	146.9	148.5	144.3
77.5°	151.1	135.9	146.0	149.4	140.9
80°	145.2	129.1	152.8	151.1	135.0
82.5°	132.5	113.9	149.4	136.7	121.5
85°	108.0	85.2	168.0	120.7	88.6
87.5°	69.2	51.5	116.5	92.0	59.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)