

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: P146351

Luminaire Tested: **LDRL-T2-E04-E-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146351
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-E04-E-7050
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (84) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12307.4 lumens
Efficiency: N/A
Efficacy: 126.6 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

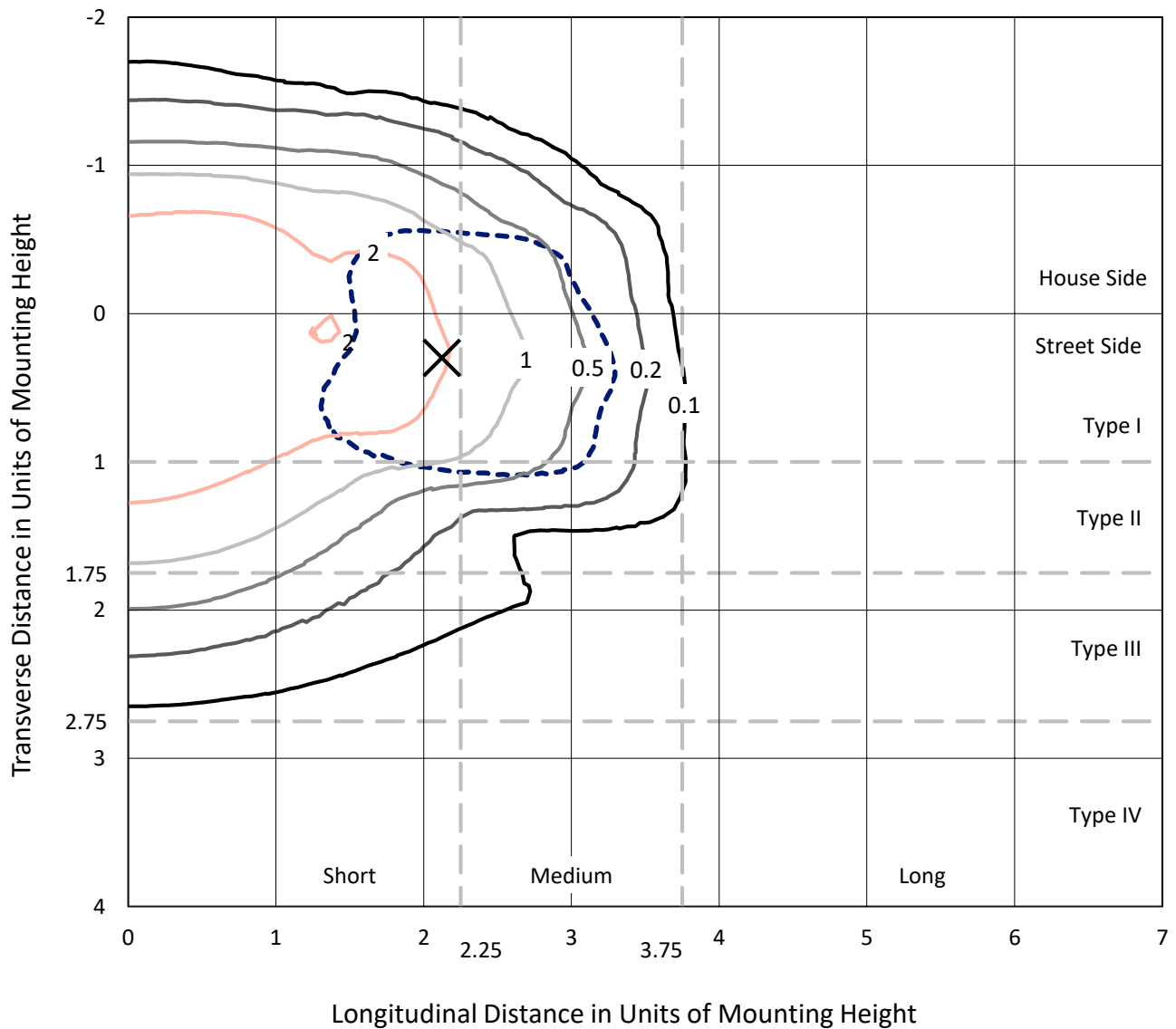
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

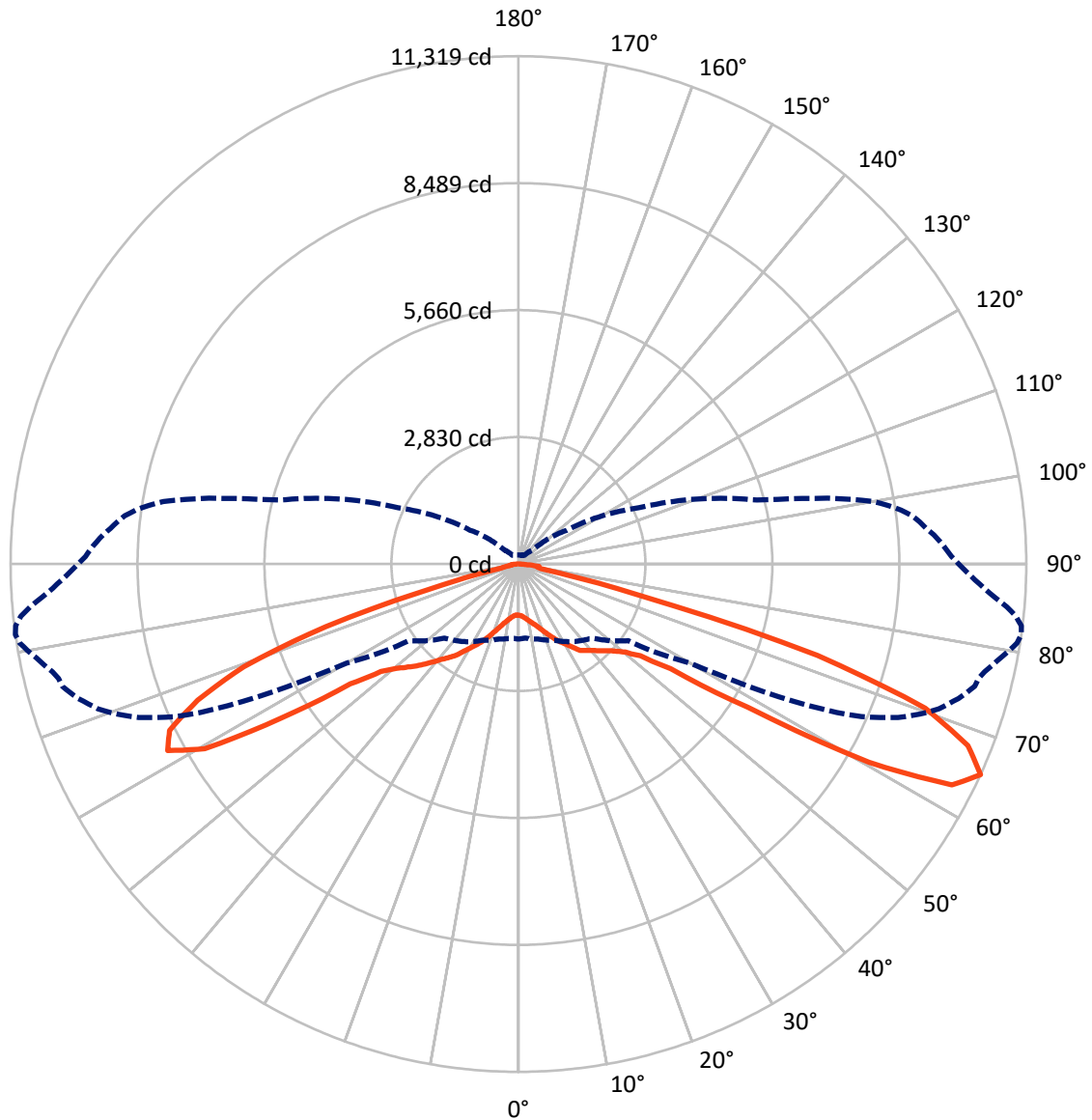
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.7 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	4530.4	0.0	4530.4
	% Fixture	36.8	0.0	36.8
Street Side	Lumens	7777.0	0.0	7777.0
	% Fixture	63.2	0.0	63.2
Total	Lumens	12307.4	0.0	12307.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.7	0.9
10°-20°	407.6	3.3
20°-30°	808.4	6.6
30°-40°	1379.4	11.2
40°-50°	2068.4	16.8
50°-60°	2879.1	23.4
60°-70°	3307.7	26.9
70°-80°	1141.4	9.3
80°-90°	199.6	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°	12307.4	100.0
0°-180°	12307.4	100.0



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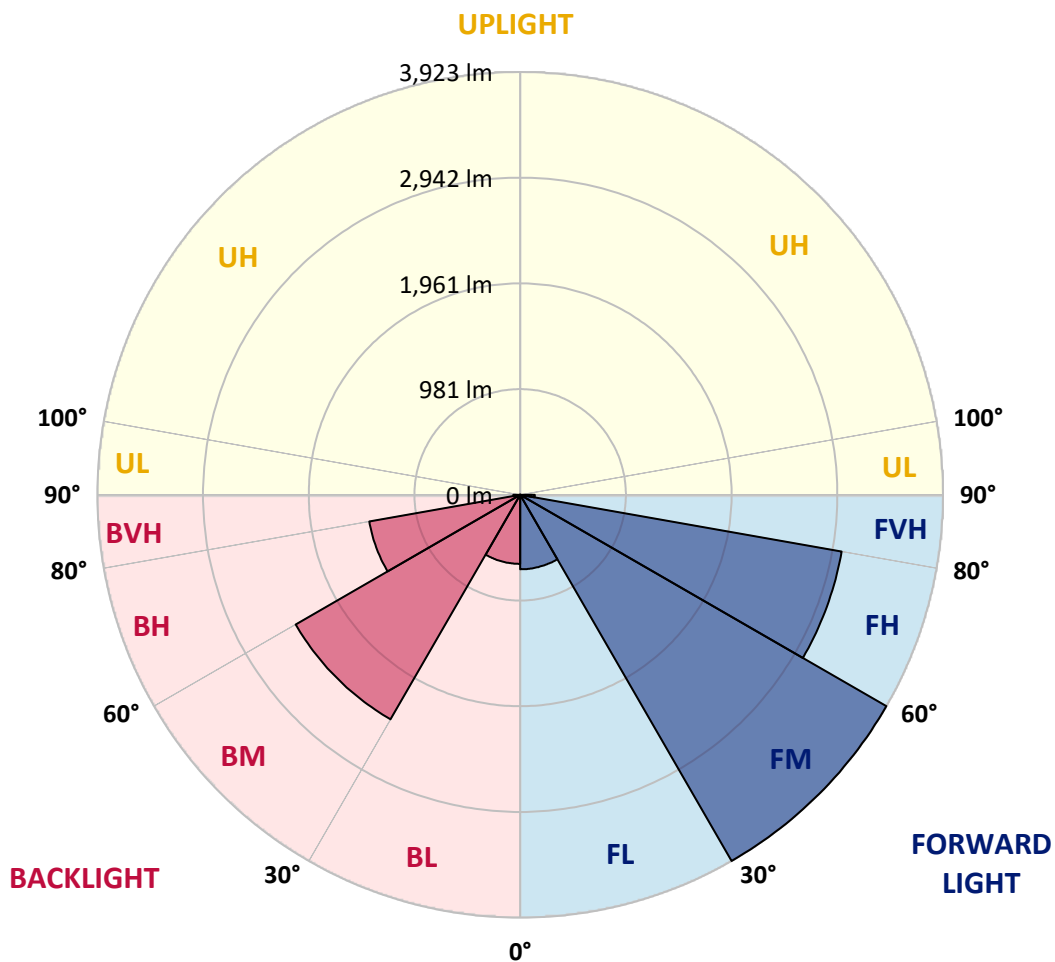
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	690.8	5.6			
FM (30°-60°)	3922.5	31.9			
FH (60°-80°)	3028.0	24.6			G2/5000
FVH (80°-90°)	135.6	1.1			G2/225
BL (0°-30°)	640.8	5.2	B2/1000		
BM (30°-60°)	2404.4	19.5	B2/2500		
BH (60°-80°)	1421.1	11.5	B3/2500		G3/2500
BVH (80°-90°)	64.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2
2.5°	1203.4	1202.6	1201.8	1198.5	1196.8	1190.3	1183.7	1179.6	1176.3	1178.0	1173.0
5°	1273.2	1273.2	1269.9	1265.8	1260.9	1251.8	1235.4	1227.2	1225.6	1225.6	1219.8
7.5°	1344.6	1349.5	1340.5	1337.2	1329.0	1315.1	1296.2	1285.5	1282.2	1282.2	1277.3
10°	1434.9	1432.4	1422.6	1416.0	1399.6	1380.7	1355.3	1343.0	1338.0	1342.1	1333.9
12.5°	1530.1	1529.3	1514.5	1502.2	1479.2	1448.9	1415.2	1398.8	1395.5	1395.5	1390.6
15°	1627.0	1627.8	1611.4	1588.4	1552.3	1511.2	1473.5	1457.9	1453.8	1452.1	1446.4
17.5°	1700.9	1709.1	1692.7	1663.1	1618.8	1573.6	1533.4	1517.8	1517.0	1515.4	1508.8
20°	1742.7	1744.4	1735.3	1714.0	1674.6	1631.1	1603.2	1595.8	1595.0	1595.8	1597.4
22.5°	1741.1	1743.6	1740.3	1732.1	1706.6	1682.8	1679.5	1683.6	1686.1	1683.6	1689.4
25°	1728.0	1731.2	1731.2	1735.3	1728.8	1737.0	1763.3	1774.8	1775.6	1777.2	1789.5
27.5°	1756.7	1760.0	1759.2	1766.5	1772.3	1801.0	1848.6	1869.2	1871.6	1877.4	1888.9
30°	1889.7	1890.5	1875.7	1874.9	1880.6	1903.6	1952.1	1975.9	1973.4	1984.9	1992.3
32.5°	2099.8	2106.4	2091.6	2076.0	2073.6	2076.8	2085.9	2102.3	2099.8	2105.6	2115.4
35°	2339.5	2340.3	2332.1	2341.2	2346.1	2323.9	2281.2	2277.1	2264.0	2266.5	2269.7
37.5°	2559.5	2565.3	2580.9	2638.3	2671.2	2617.0	2533.2	2480.7	2472.5	2468.4	2439.7
40°	2765.6	2794.3	2832.1	2906.8	2951.9	2971.6	2852.6	2746.7	2717.9	2706.5	2661.3
42.5°	3006.9	3021.7	3066.0	3151.4	3211.3	3300.8	3221.2	3104.6	3070.9	3021.7	2965.0
45°	3211.3	3221.2	3249.1	3321.3	3446.9	3596.3	3605.3	3524.1	3497.8	3448.5	3365.6
47.5°	3348.4	3347.6	3368.1	3438.7	3602.0	3830.2	3965.7	3962.4	3932.0	3914.8	3844.2
50°	3401.7	3400.9	3414.1	3492.9	3671.0	3969.8	4268.6	4371.2	4370.4	4377.0	4340.8
52.5°	3411.6	3410.8	3412.4	3475.6	3657.0	4018.2	4487.0	4729.1	4764.4	4808.7	4849.0
55°	3337.7	3345.9	3364.0	3430.5	3604.5	3998.5	4648.7	5064.9	5149.4	5239.7	5385.8
57.5°	3167.0	3182.6	3245.0	3364.0	3548.7	3950.1	4761.1	5480.2	5651.8	5870.1	6265.8
60°	2922.3	2936.3	3022.5	3180.1	3386.1	3739.1	4630.6	5654.3	5980.1	6359.4	7170.4
62.5°	2489.7	2529.1	2575.1	2686.8	2902.6	3186.7	4044.5	5360.4	5865.2	6421.8	7538.2
65°	1672.1	1655.7	1732.1	1874.1	2111.3	2332.1	2979.8	4421.3	5059.9	5825.8	7207.4
67.5°	1035.1	1037.6	1089.3	1228.0	1407.0	1578.6	1888.9	2818.1	3384.5	4112.6	5774.1
70°	855.4	865.2	907.1	1036.0	1188.6	1382.4	1402.1	1494.0	1747.7	2099.8	3566.7
72.5°	678.9	683.0	725.7	833.2	1049.1	1315.1	1664.8	1135.3	1115.6	1168.9	1809.2
75°	421.1	424.4	445.7	514.7	680.5	1024.5	1833.0	1305.2	1223.1	1154.2	1165.7
77.5°	217.5	224.1	235.6	266.8	357.1	572.2	1443.1	1654.9	1561.3	1467.7	1284.7
80°	123.1	123.1	133.8	141.2	169.1	233.1	733.9	1791.2	1957.0	1997.2	1793.6
82.5°	55.0	61.6	82.9	88.7	96.9	106.7	243.0	1076.2	1493.2	1865.0	2305.0
85°	32.8	32.0	52.5	57.5	59.9	50.9	91.1	439.2	697.8	1021.2	1527.7
87.5°	13.1	14.0	22.2	23.8	27.9	20.5	34.5	94.4	138.7	201.1	284.0
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°	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2
2.5°	1172.2	1172.2	1171.4	1170.6	1169.8	1167.3	1166.5	1164.8	1164.0	1161.6	1160.7
5°	1219.0	1216.6	1215.7	1214.1	1213.3	1210.0	1210.0	1206.7	1204.2	1201.0	1200.1
7.5°	1274.8	1271.5	1269.1	1267.4	1266.6	1260.9	1260.9	1256.0	1255.1	1251.0	1249.4
10°	1331.5	1329.0	1325.7	1324.1	1323.3	1320.0	1316.7	1313.4	1311.0	1308.5	1305.2
12.5°	1388.1	1383.2	1381.5	1379.1	1377.4	1375.0	1374.2	1366.8	1366.8	1364.3	1361.0
15°	1443.1	1442.3	1436.5	1435.7	1434.1	1434.9	1430.0	1430.8	1428.3	1424.2	1422.6
17.5°	1510.4	1504.7	1507.1	1503.0	1503.9	1502.2	1500.6	1499.8	1501.4	1500.6	1502.2
20°	1594.2	1592.5	1595.0	1589.2	1595.0	1595.8	1594.2	1598.3	1596.6	1598.3	1593.3
22.5°	1693.5	1687.7	1687.7	1691.8	1694.3	1701.7	1697.6	1700.9	1704.2	1706.6	1703.3
25°	1793.6	1792.0	1795.3	1798.6	1803.5	1810.0	1808.4	1809.2	1815.8	1819.9	1820.7
27.5°	1895.4	1895.4	1905.3	1905.3	1911.8	1919.2	1921.7	1925.0	1929.9	1935.6	1935.6
30°	2000.5	2000.5	2009.5	2017.7	2021.0	2030.0	2035.0	2039.9	2048.9	2050.6	2058.0
32.5°	2120.3	2122.8	2131.8	2136.8	2144.1	2154.8	2156.5	2162.2	2172.9	2176.2	2181.9
35°	2276.3	2268.1	2276.3	2285.3	2289.4	2286.2	2304.2	2311.6	2319.0	2323.1	2330.5
37.5°	2437.2	2423.3	2424.1	2422.4	2412.6	2418.3	2418.3	2416.7	2421.6	2420.8	2424.1
40°	2640.8	2616.2	2608.8	2593.2	2571.8	2560.3	2548.0	2546.4	2534.1	2539.0	2530.0
42.5°	2919.9	2882.9	2863.2	2814.8	2788.5	2757.4	2727.0	2700.7	2686.8	2671.2	2659.7
45°	3303.2	3259.7	3212.1	3134.1	3089.0	3026.6	2986.4	2926.5	2886.2	2852.6	2828.8
47.5°	3784.3	3711.2	3672.6	3599.6	3520.8	3426.4	3340.2	3256.4	3188.3	3114.4	3056.2
50°	4343.3	4252.2	4221.8	4124.9	4080.6	3974.7	3882.8	3779.4	3672.6	3561.0	3454.3
52.5°	4838.3	4827.6	4839.9	4775.1	4773.4	4720.1	4618.3	4497.6	4398.3	4285.8	4145.5
55°	5431.8	5537.7	5560.7	5551.6	5600.1	5598.4	5588.6	5576.3	5497.5	5338.2	5289.8
57.5°	6479.2	6598.3	6773.9	6853.6	7029.2	7049.8	7212.3	7149.1	7269.8	7236.9	7259.1
60°	7545.6	7910.9	8244.1	8497.8	8744.1	8968.2	9242.3	9359.7	9447.6	9584.6	9729.1
62.5°	8022.5	8483.0	8880.3	9241.5	9547.7	9831.7	10067.3	10290.6	10466.3	10623.9	10745.4
65°	7829.6	8364.0	8751.4	9128.2	9413.9	9678.2	9912.2	10079.6	10254.5	10397.3	10526.2
67.5°	6518.6	7230.3	7736.0	8163.7	8522.4	8823.7	9066.7	9297.3	9421.3	9577.3	9647.0
70°	4317.9	5230.7	5945.7	6523.6	7092.4	7433.9	7722.1	7990.5	8131.7	8258.1	8336.1
72.5°	2371.5	2995.4	3758.8	4445.9	4992.6	5440.8	5776.6	6031.0	6176.3	6284.7	6172.2
75°	1343.8	1651.6	2025.1	2405.2	2819.7	3135.8	3224.4	3332.8	3358.2	3302.4	3157.9
77.5°	1235.4	1235.4	1236.3	1227.2	1245.3	1267.4	1254.3	1232.1	1132.0	1109.8	1078.6
80°	1606.5	1431.6	1244.5	1022.0	833.2	702.7	662.5	665.7	697.8	760.1	829.1
82.5°	2277.1	2104.7	1834.7	1495.7	1190.3	934.2	765.9	688.7	687.9	750.3	839.8
85°	1660.6	1674.6	1614.7	1428.3	1139.4	897.2	724.8	556.6	502.4	502.4	495.8
87.5°	290.6	299.6	258.6	231.5	161.7	114.1	102.6	90.3	89.5	92.8	85.4
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°	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2
2.5°	1160.7	1159.1	1157.4	1156.6	1156.6	1155.0	1155.0	1153.3	1154.2	1153.3	1150.9
5°	1198.5	1197.7	1195.2	1191.1	1190.3	1187.0	1187.8	1184.5	1184.5	1182.9	1178.8
7.5°	1246.1	1244.5	1242.8	1239.5	1236.3	1236.3	1230.5	1230.5	1226.4	1224.8	1221.5
10°	1302.7	1297.8	1295.4	1292.1	1291.3	1290.4	1284.7	1284.7	1279.8	1278.9	1276.5
12.5°	1358.6	1355.3	1352.8	1351.2	1347.1	1346.3	1343.8	1341.3	1338.9	1337.2	1336.4
15°	1419.3	1417.7	1415.2	1415.2	1415.2	1411.1	1408.6	1407.0	1407.0	1404.5	1406.2
17.5°	1498.1	1500.6	1497.3	1495.7	1493.2	1497.3	1493.2	1493.2	1495.7	1495.7	1489.9
20°	1595.8	1599.1	1595.8	1596.6	1595.0	1595.8	1596.6	1598.3	1601.5	1595.8	1596.6
22.5°	1704.2	1705.0	1707.4	1705.0	1709.1	1706.6	1711.5	1715.6	1714.8	1713.2	1714.0
25°	1822.4	1819.9	1820.7	1828.1	1833.9	1832.2	1833.0	1839.6	1838.0	1836.3	1837.1
27.5°	1942.2	1940.6	1943.0	1949.6	1956.2	1955.3	1953.7	1958.6	1958.6	1954.5	1956.2
30°	2061.2	2063.7	2067.8	2067.8	2071.1	2074.4	2071.9	2077.7	2078.5	2075.2	2079.3
32.5°	2186.8	2191.8	2190.1	2201.6	2201.6	2202.4	2204.9	2204.1	2212.3	2205.7	2208.2
35°	2337.9	2339.5	2349.4	2357.6	2362.5	2366.6	2366.6	2369.1	2373.2	2369.9	2374.8
37.5°	2429.8	2433.1	2436.4	2441.3	2441.3	2441.3	2445.4	2446.2	2448.7	2447.9	2449.5
40°	2530.8	2531.6	2532.4	2533.2	2536.5	2538.2	2534.1	2539.8	2535.7	2537.4	2539.8
42.5°	2653.1	2641.6	2643.2	2640.8	2646.5	2639.1	2640.8	2647.4	2644.1	2649.0	2649.0
45°	2795.1	2782.0	2770.5	2763.9	2763.9	2754.1	2755.7	2758.2	2762.3	2768.8	2780.3
47.5°	3005.3	2960.1	2937.9	2915.0	2903.5	2891.2	2895.3	2896.1	2897.7	2908.4	2937.1
50°	3349.2	3273.7	3215.4	3145.6	3119.4	3098.0	3085.7	3086.5	3086.5	3108.7	3137.4
52.5°	4014.1	3873.8	3735.0	3613.5	3509.3	3459.2	3400.9	3386.1	3387.0	3405.8	3425.6
55°	5162.5	4969.6	4822.7	4552.6	4470.5	4239.9	4118.4	4048.6	3994.4	4020.7	4049.4
57.5°	7223.0	7044.8	6928.3	6605.7	6311.8	6228.0	6028.6	5866.9	5800.4	5723.2	5728.1
60°	9750.5	9658.5	9629.0	9440.2	9334.3	9005.1	8978.8	8774.4	8581.5	8414.9	8483.0
62.5°	10839.0	10881.6	10916.1	10982.6	11008.1	10976.9	10844.7	10754.4	10596.0	10377.6	10243.8
65°	10564.0	10661.6	10808.6	10947.3	11113.1	11251.0	11319.2	11292.9	11150.1	10925.1	10644.4
67.5°	9697.1	9796.4	9922.9	10098.5	10352.2	10620.6	10807.8	10926.8	10813.5	10610.8	10325.1
70°	8332.0	8428.8	8432.9	8678.4	8951.7	9289.9	9621.6	9746.4	9617.5	9482.0	9243.2
72.5°	6240.4	6182.1	6236.3	6281.4	6437.4	6650.8	6972.6	6958.6	6761.6	6656.6	6289.6
75°	2933.0	2893.6	2836.2	2798.4	2762.3	2686.8	2722.9	2568.5	2515.2	2536.5	2219.7
77.5°	1054.8	1000.7	913.6	829.1	722.4	598.4	504.8	443.3	412.9	413.7	394.8
80°	884.9	911.2	898.9	815.1	695.3	565.6	423.6	321.0	274.2	254.5	242.2
82.5°	959.6	1091.8	1157.4	1105.7	934.2	719.1	463.0	279.9	205.2	175.7	168.3
85°	531.9	532.8	516.3	493.4	437.5	300.4	200.3	133.0	106.7	95.2	91.9
87.5°	90.3	86.2	86.2	80.4	70.6	69.0	61.6	58.3	51.7	47.6	46.0
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):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2
2.5°	1148.4	1146.8	1146.0	1145.1	1145.1	1144.3	1144.3	1142.7	1141.0	1140.2	1139.4
5°	1174.7	1173.0	1171.4	1169.8	1169.8	1168.1	1166.5	1164.8	1162.4	1158.3	1157.4
7.5°	1219.0	1215.7	1215.7	1210.0	1210.0	1206.7	1204.2	1204.2	1201.0	1194.4	1193.6
10°	1274.0	1268.3	1265.8	1262.5	1260.9	1257.6	1257.6	1254.3	1252.7	1250.2	1242.0
12.5°	1333.1	1329.0	1327.4	1323.3	1320.8	1320.8	1319.2	1313.4	1317.5	1311.8	1307.7
15°	1404.5	1403.7	1396.3	1398.8	1398.0	1397.1	1398.0	1393.0	1392.2	1392.2	1387.3
17.5°	1494.0	1487.4	1488.3	1488.3	1489.9	1489.9	1483.3	1486.6	1487.4	1485.8	1484.2
20°	1599.1	1596.6	1599.1	1594.2	1599.1	1599.1	1602.4	1601.5	1602.4	1604.0	1604.0
22.5°	1711.5	1718.1	1718.9	1720.6	1714.8	1724.7	1724.7	1726.3	1730.4	1730.4	1732.1
25°	1847.8	1844.5	1840.4	1846.2	1847.8	1854.4	1856.0	1856.0	1862.6	1862.6	1865.0
27.5°	1961.1	1964.4	1963.6	1966.8	1965.2	1974.2	1977.5	1987.4	1984.9	1989.8	1996.4
30°	2077.7	2084.2	2080.9	2081.8	2085.9	2091.6	2098.2	2108.0	2109.7	2122.8	2126.1
32.5°	2212.3	2217.2	2221.3	2223.0	2223.0	2232.8	2243.5	2246.8	2264.0	2273.8	2285.3
35°	2383.0	2383.8	2386.3	2388.8	2387.1	2397.8	2408.5	2411.8	2429.8	2432.3	2456.1
37.5°	2455.3	2456.9	2466.8	2471.7	2475.0	2488.1	2507.8	2522.6	2542.3	2561.2	2588.2
40°	2545.6	2555.4	2564.4	2571.8	2584.1	2602.2	2632.6	2647.4	2676.9	2712.2	2738.5
42.5°	2659.7	2677.7	2684.3	2698.2	2728.6	2750.8	2781.2	2813.2	2852.6	2895.3	2926.5
45°	2795.1	2812.3	2837.0	2852.6	2887.9	2923.2	2971.6	2999.5	3039.7	3089.0	3123.5
47.5°	2959.3	2983.1	3007.7	3039.7	3081.6	3118.5	3167.0	3203.1	3243.3	3283.5	3321.3
50°	3163.7	3199.0	3231.8	3265.5	3321.3	3352.5	3400.1	3437.9	3475.6	3515.8	3550.3
52.5°	3438.7	3492.0	3533.9	3556.9	3632.4	3663.6	3721.9	3748.2	3779.4	3815.5	3859.8
55°	4038.8	4121.7	4192.3	4233.3	4348.2	4389.3	4464.8	4503.4	4482.0	4528.0	4607.6
57.5°	5774.1	5875.9	5960.4	6016.3	6133.6	6191.1	6195.2	6339.7	6254.3	6338.9	6351.2
60°	8301.6	8382.1	8361.5	8362.3	8325.4	8272.1	8374.7	8218.7	8284.4	8288.5	8141.5
62.5°	9996.7	9873.6	9816.1	9720.9	9610.1	9524.7	9466.4	9340.8	9240.7	9161.1	9005.9
65°	10395.7	10182.2	9993.4	9815.3	9652.0	9538.7	9415.5	9280.9	9124.1	8992.0	8840.9
67.5°	10009.9	9711.1	9431.1	9196.4	8973.1	8823.7	8645.6	8517.5	8320.5	8146.5	8031.5
70°	8891.0	8477.3	8150.6	8000.3	7778.7	7457.7	7287.8	7127.7	7007.1	6849.5	6779.7
72.5°	6237.1	5726.5	5474.5	5484.3	5259.4	5029.6	5035.3	4937.6	4781.7	4776.7	4752.9
75°	2291.9	2085.0	1939.7	1946.3	1862.6	1773.1	1797.7	1824.0	1773.1	1876.5	1716.5
77.5°	364.5	354.6	351.3	344.0	325.9	339.0	330.0	347.2	349.7	368.6	370.2
80°	232.3	222.5	220.0	215.9	215.1	215.1	213.4	213.4	213.4	214.3	212.6
82.5°	155.1	149.4	148.6	146.1	150.2	151.0	151.9	158.4	164.2	165.8	172.4
85°	84.6	80.4	80.4	78.8	82.1	82.9	90.3	99.3	110.8	115.7	126.4
87.5°	42.7	45.1	44.3	46.0	48.4	54.2	59.9	65.7	72.2	81.3	88.7
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):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2	1140.2
2.5°	1137.7	1136.9	1136.9	1135.3	1135.3	1134.5	1132.8	1131.2	1123.8	1114.8	1109.0
5°	1155.0	1153.3	1152.5	1150.9	1148.4	1148.4	1146.0	1142.7	1128.7	1113.9	1104.9
7.5°	1190.3	1189.5	1187.0	1183.7	1180.4	1177.1	1175.5	1173.9	1152.5	1138.6	1132.0
10°	1241.2	1240.4	1234.6	1233.8	1228.9	1229.7	1225.6	1222.3	1208.3	1192.7	1183.7
12.5°	1306.0	1309.3	1306.0	1298.6	1300.3	1297.8	1293.7	1289.6	1277.3	1265.0	1251.0
15°	1386.5	1382.4	1379.1	1385.7	1379.9	1379.1	1381.5	1382.4	1367.6	1354.5	1334.8
17.5°	1486.6	1486.6	1485.0	1486.6	1483.3	1485.8	1484.2	1485.8	1479.2	1461.2	1432.4
20°	1600.7	1607.3	1607.3	1604.8	1604.0	1608.9	1611.4	1602.4	1604.0	1588.4	1536.7
22.5°	1733.7	1738.6	1740.3	1737.8	1738.6	1745.2	1749.3	1742.7	1757.5	1732.1	1652.4
25°	1870.8	1878.2	1874.9	1875.7	1882.3	1889.7	1897.1	1890.5	1919.2	1879.8	1775.6
27.5°	2006.2	2012.8	2011.2	2016.1	2026.8	2036.6	2044.8	2042.4	2090.0	2038.3	1905.3
30°	2134.3	2149.9	2153.2	2158.9	2172.1	2188.5	2201.6	2200.8	2262.4	2192.6	2011.2
32.5°	2291.9	2309.1	2315.7	2328.0	2353.5	2365.0	2381.4	2383.0	2444.6	2328.0	2100.6
35°	2474.1	2491.4	2505.3	2514.4	2543.1	2557.1	2573.5	2580.9	2621.9	2454.4	2163.0
37.5°	2615.3	2630.1	2657.2	2676.1	2701.5	2729.4	2748.3	2757.4	2780.3	2562.8	2191.8
40°	2769.7	2801.7	2827.9	2856.7	2884.6	2906.8	2924.0	2937.9	2928.9	2653.1	2179.4
42.5°	2965.0	2998.7	3034.0	3058.6	3073.4	3102.9	3111.2	3121.0	3047.1	2694.1	2123.6
45°	3168.6	3195.7	3225.3	3243.3	3263.0	3277.8	3280.3	3281.1	3135.0	2670.3	2022.7
47.5°	3364.8	3387.8	3408.3	3418.2	3428.0	3428.8	3424.7	3418.2	3181.7	2589.9	1901.2
50°	3579.9	3593.8	3602.9	3603.7	3612.7	3595.5	3584.0	3553.6	3176.8	2466.8	1773.1
52.5°	3889.4	3886.1	3874.6	3873.8	3845.0	3812.2	3790.8	3747.3	3143.2	2333.8	1625.4
55°	4600.2	4569.0	4605.2	4513.2	4436.9	4386.0	4265.3	4177.5	3176.8	2209.8	1455.4
57.5°	6308.5	6201.8	6213.3	6064.7	5902.2	5597.6	5417.8	5174.9	3441.1	2140.9	1241.2
60°	8110.3	7934.7	7768.8	7505.3	7159.8	6773.1	6425.1	6045.0	3703.8	2056.3	1013.0
62.5°	8854.1	8627.5	8339.4	7967.5	7523.4	7044.0	6563.0	6129.5	3559.4	1801.8	729.8
65°	8614.4	8343.5	8036.5	7551.3	7047.3	6489.9	5962.9	5504.9	2964.2	1317.5	440.8
67.5°	7763.1	7530.0	7151.5	6693.5	6069.6	5510.6	4989.3	4565.8	2185.2	814.3	252.8
70°	6536.7	6214.1	5890.7	5450.7	4793.1	4266.1	3781.0	3406.7	1386.5	402.2	186.3
72.5°	4511.6	4256.3	3997.7	3603.7	3112.8	2750.0	2333.0	2025.1	725.7	216.7	171.6
75°	1757.5	1729.6	1700.1	1521.1	1354.5	1085.2	953.0	859.5	302.1	188.0	169.1
77.5°	385.8	408.8	421.9	399.8	380.9	339.8	325.1	290.6	201.9	192.9	167.5
80°	212.6	212.6	212.6	215.1	211.0	211.0	208.5	204.4	188.8	192.9	164.2
82.5°	174.0	176.5	179.8	180.6	179.8	180.6	179.0	178.1	184.7	193.7	156.0
85°	133.0	141.2	146.1	152.7	159.3	163.4	165.0	165.8	169.9	183.9	136.3
87.5°	94.4	101.0	111.6	113.3	120.7	129.7	133.0	137.9	135.4	139.6	64.0
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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 CATALOG NUMBER: LDRL-T2-E04-E-7050

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	1140.2	1140.2	1140.2	1140.2	1140.2
2.5°	1104.1	1097.5	1095.1	1094.2	1092.6
5°	1097.5	1093.4	1090.1	1087.7	1089.3
7.5°	1127.1	1124.6	1118.9	1117.2	1119.7
10°	1179.6	1173.9	1165.7	1166.5	1165.7
12.5°	1245.3	1229.7	1216.6	1210.8	1206.7
15°	1312.6	1282.2	1255.1	1242.8	1237.9
17.5°	1387.3	1335.6	1293.7	1271.5	1267.4
20°	1466.1	1394.7	1340.5	1314.2	1310.1
22.5°	1557.2	1458.7	1389.8	1353.6	1347.9
25°	1645.9	1516.2	1424.2	1379.9	1372.5
27.5°	1726.3	1559.7	1444.8	1392.2	1384.8
30°	1793.6	1594.2	1462.0	1402.1	1393.9
32.5°	1838.0	1613.0	1467.7	1402.9	1393.0
35°	1851.9	1600.7	1443.1	1368.4	1360.2
37.5°	1822.4	1550.7	1377.4	1292.9	1286.3
40°	1755.1	1457.9	1274.0	1186.2	1178.0
42.5°	1650.0	1340.5	1154.2	1061.4	1054.0
45°	1533.4	1214.9	1026.9	934.2	926.8
47.5°	1406.2	1081.9	893.1	807.8	796.3
50°	1266.6	937.4	756.9	673.1	662.5
52.5°	1103.3	779.8	612.4	536.9	530.3
55°	912.0	621.4	487.6	432.6	426.0
57.5°	709.2	472.8	387.5	360.4	349.7
60°	514.7	359.5	308.7	295.5	289.8
62.5°	349.7	268.4	248.7	244.6	240.5
65°	237.2	210.1	204.4	205.2	202.8
67.5°	187.2	176.5	173.2	174.8	174.0
70°	164.2	156.0	155.1	156.8	156.0
72.5°	155.1	144.5	146.1	148.6	147.8
75°	151.0	139.6	142.8	144.5	140.4
77.5°	146.9	132.2	142.0	145.3	137.1
80°	141.2	125.6	148.6	146.9	131.3
82.5°	128.9	110.8	145.3	133.0	118.2
85°	105.1	82.9	163.4	117.4	86.2
87.5°	67.3	50.1	113.3	89.5	57.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)