

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: P146349

Luminaire Tested: **LDRL-T2-E04-E-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146349
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-7030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10955 lumens
Efficiency: N/A
Efficacy: 112.7 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

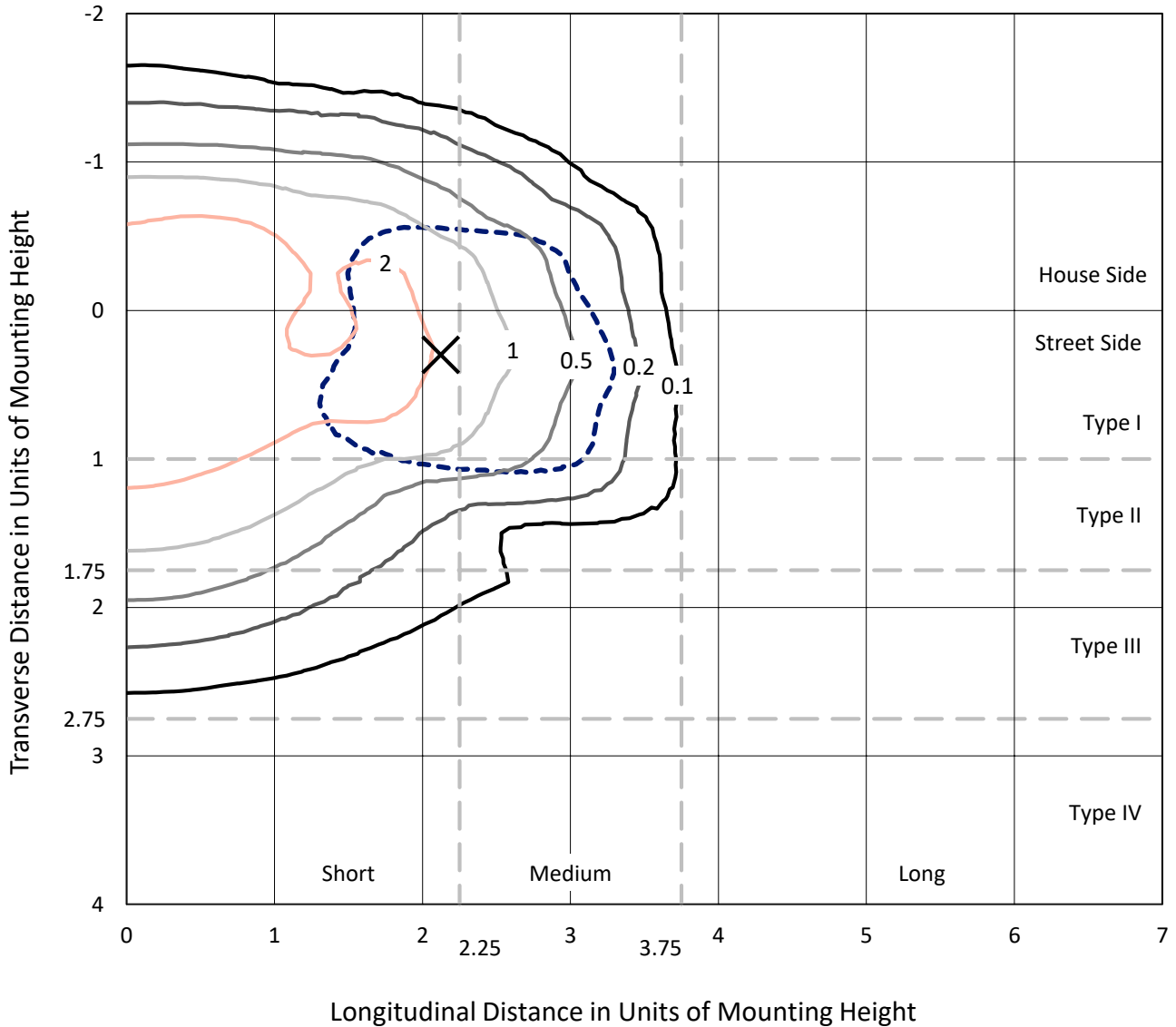
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

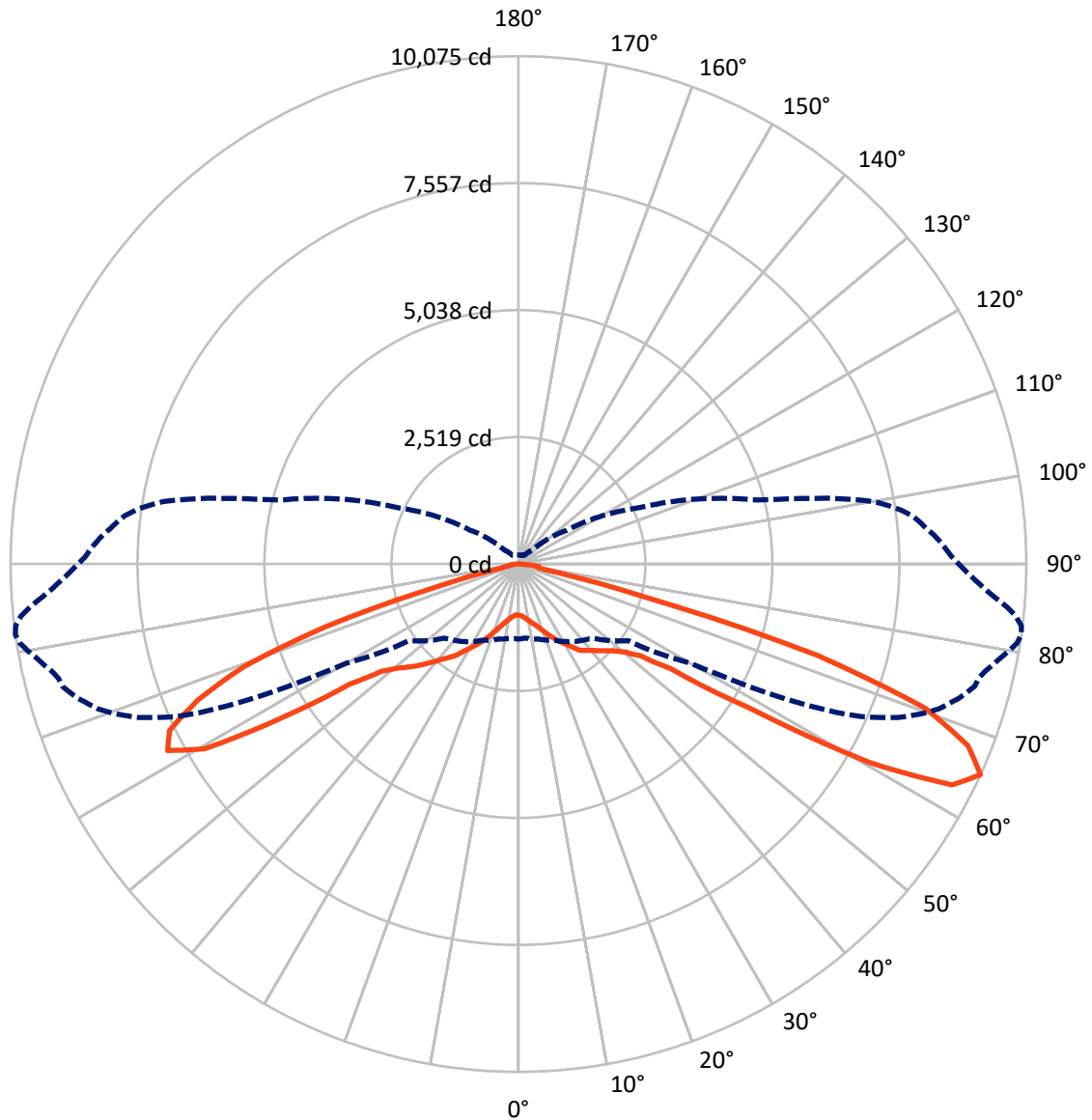
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.3 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	4032.6	0.0	4032.6
	% Fixture	36.8	0.0	36.8
Street Side	Lumens	6922.4	0.0	6922.4
	% Fixture	63.2	0.0	63.2
Total	Lumens	10955.0	0.0	10955.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.0	0.9
10°-20°	362.8	3.3
20°-30°	719.6	6.6
30°-40°	1227.8	11.2
40°-50°	1841.1	16.8
50°-60°	2562.7	23.4
60°-70°	2944.2	26.9
70°-80°	1016.0	9.3
80°-90°	177.7	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°	10955.0	100.0
0°-180°	10955.0	100.0



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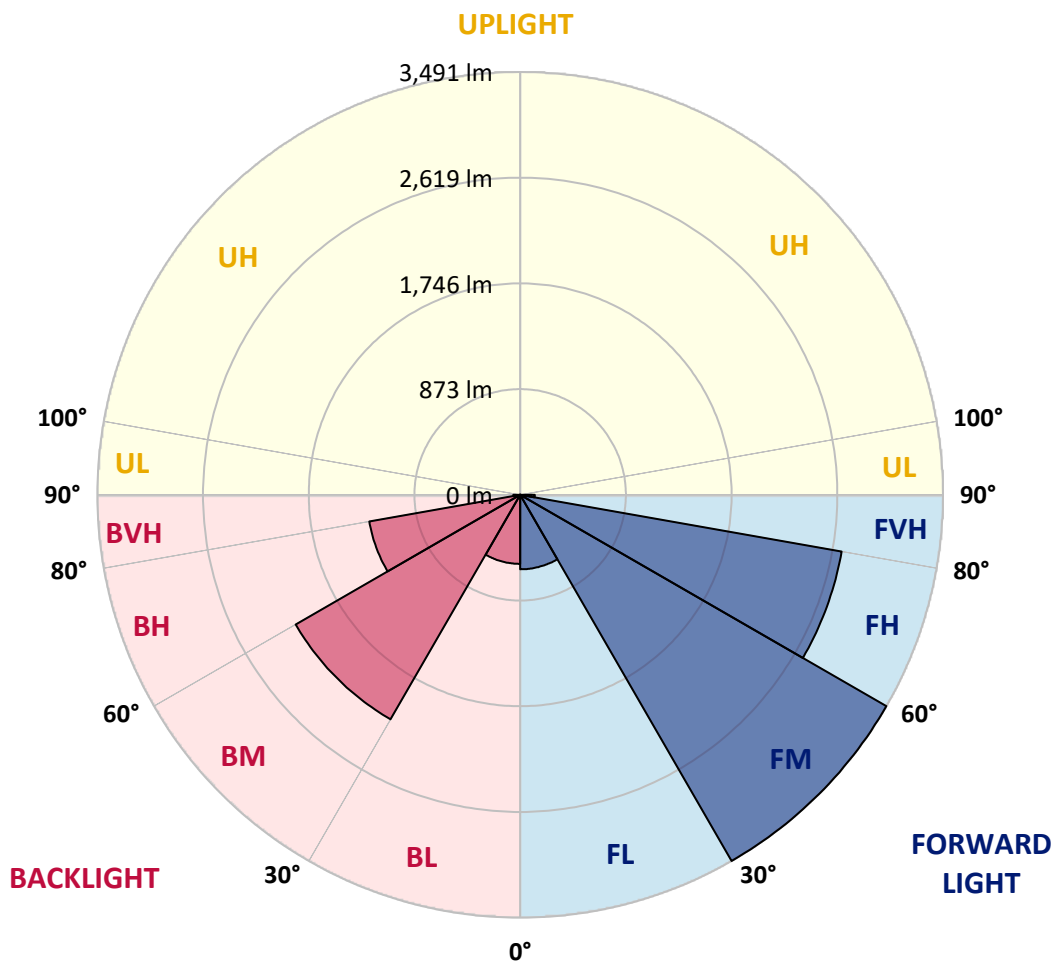
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	614.9	5.6			
FM	(30°-60°)	3491.5	31.9			
FH	(60°-80°)	2695.3	24.6			G2/5000
FVH	(80°-90°)	120.7	1.1			G2/225
BL	(0°-30°)	570.4	5.2	B2/1000		
BM	(30°-60°)	2140.2	19.5	B2/2500		
BH	(60°-80°)	1265.0	11.5	B3/2500		G3/2500
BVH	(80°-90°)	57.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9
2.5°	1071.2	1070.4	1069.7	1066.8	1065.3	1059.5	1053.6	1050.0	1047.1	1048.5	1044.1
5°	1133.3	1133.3	1130.4	1126.7	1122.3	1114.3	1099.7	1092.4	1090.9	1090.9	1085.8
7.5°	1196.9	1201.2	1193.2	1190.3	1183.0	1170.5	1153.7	1144.2	1141.3	1141.3	1136.9
10°	1277.2	1275.0	1266.3	1260.4	1245.8	1229.0	1206.4	1195.4	1191.0	1194.7	1187.4
12.5°	1362.0	1361.3	1348.1	1337.1	1316.7	1289.7	1259.7	1245.1	1242.2	1242.2	1237.8
15°	1448.2	1448.9	1434.3	1413.9	1381.7	1345.2	1311.6	1297.7	1294.0	1292.6	1287.5
17.5°	1514.0	1521.3	1506.7	1480.4	1440.9	1400.7	1364.9	1351.0	1350.3	1348.8	1343.0
20°	1551.2	1552.7	1544.7	1525.7	1490.6	1451.9	1427.0	1420.4	1419.7	1420.4	1421.9
22.5°	1549.8	1552.0	1549.0	1541.7	1519.1	1497.9	1495.0	1498.6	1500.8	1498.6	1503.7
25°	1538.1	1541.0	1541.0	1544.7	1538.8	1546.1	1569.5	1579.7	1580.5	1581.9	1592.9
27.5°	1563.7	1566.6	1565.8	1572.4	1577.5	1603.1	1645.5	1663.8	1666.0	1671.1	1681.3
30°	1682.0	1682.8	1669.6	1668.9	1674.0	1694.4	1737.6	1758.7	1756.6	1766.8	1773.4
32.5°	1869.1	1874.9	1861.8	1847.9	1845.7	1848.6	1856.7	1871.3	1869.1	1874.2	1883.0
35°	2082.4	2083.2	2075.9	2083.9	2088.3	2068.6	2030.6	2026.9	2015.2	2017.4	2020.3
37.5°	2278.3	2283.4	2297.3	2348.4	2377.6	2329.4	2254.9	2208.1	2200.8	2197.2	2171.6
40°	2461.7	2487.2	2520.8	2587.3	2627.5	2645.1	2539.1	2444.9	2419.3	2409.1	2368.9
42.5°	2676.5	2689.6	2729.1	2805.1	2858.4	2938.1	2867.2	2763.4	2733.5	2689.6	2639.2
45°	2858.4	2867.2	2892.0	2956.3	3068.1	3201.1	3209.1	3136.8	3113.4	3069.6	2995.8
47.5°	2980.4	2979.7	2998.0	3060.8	3206.2	3409.4	3529.9	3527.0	3500.0	3484.6	3421.8
50°	3027.9	3027.2	3038.9	3109.0	3267.6	3533.6	3799.5	3890.9	3890.1	3896.0	3863.8
52.5°	3036.7	3036.0	3037.4	3093.7	3255.2	3576.7	3993.9	4209.4	4240.9	4280.3	4316.1
55°	2970.9	2978.3	2994.3	3053.5	3208.4	3559.1	4137.8	4508.3	4583.6	4663.9	4794.0
57.5°	2819.0	2832.8	2888.4	2994.3	3158.7	3516.0	4237.9	4878.0	5030.7	5225.1	5577.3
60°	2601.2	2613.6	2690.4	2830.7	3014.1	3328.2	4121.8	5032.9	5323.0	5660.6	6382.5
62.5°	2216.2	2251.2	2292.1	2391.5	2583.7	2836.5	3600.1	4771.3	5220.7	5716.1	6709.8
65°	1488.4	1473.8	1541.7	1668.1	1879.3	2075.9	2652.4	3935.4	4503.9	5185.6	6415.4
67.5°	921.4	923.6	969.6	1093.1	1252.4	1405.1	1681.3	2508.4	3012.6	3660.7	5139.6
70°	761.4	770.1	807.4	922.1	1058.0	1230.5	1248.0	1329.8	1555.6	1869.1	3174.8
72.5°	604.3	607.9	645.9	741.6	933.8	1170.5	1481.8	1010.5	993.0	1040.5	1610.4
75°	374.8	377.8	396.8	458.1	605.7	911.9	1631.6	1161.8	1088.7	1027.3	1037.6
77.5°	193.6	199.5	209.7	237.5	317.8	509.3	1284.5	1473.1	1389.8	1306.5	1143.5
80°	109.6	109.6	119.1	125.7	150.5	207.5	653.2	1594.3	1741.9	1777.7	1596.5
82.5°	49.0	54.8	73.8	78.9	86.2	95.0	216.3	957.9	1329.1	1660.1	2051.8
85°	29.2	28.5	46.8	51.1	53.3	45.3	81.1	390.9	621.1	909.0	1359.8
87.5°	11.7	12.4	19.7	21.2	24.8	18.3	30.7	84.0	123.5	179.0	252.8
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9
2.5°	1043.4	1043.4	1042.7	1042.0	1041.2	1039.0	1038.3	1036.8	1036.1	1033.9	1033.2
5°	1085.1	1082.9	1082.1	1080.7	1079.9	1077.0	1077.0	1074.1	1071.9	1069.0	1068.3
7.5°	1134.7	1131.8	1129.6	1128.2	1127.4	1122.3	1122.3	1117.9	1117.2	1113.6	1112.1
10°	1185.2	1183.0	1180.0	1178.6	1177.9	1174.9	1172.0	1169.1	1166.9	1164.7	1161.8
12.5°	1235.6	1231.2	1229.7	1227.5	1226.1	1223.9	1223.2	1216.6	1216.6	1214.4	1211.5
15°	1284.5	1283.8	1278.7	1278.0	1276.5	1277.2	1272.8	1273.6	1271.4	1267.7	1266.3
17.5°	1344.5	1339.3	1341.5	1337.9	1338.6	1337.1	1335.7	1335.0	1336.4	1335.7	1337.1
20°	1419.0	1417.5	1419.7	1414.6	1419.7	1420.4	1419.0	1422.6	1421.2	1422.6	1418.3
22.5°	1507.4	1502.3	1502.3	1505.9	1508.1	1514.7	1511.0	1514.0	1516.9	1519.1	1516.2
25°	1596.5	1595.1	1598.0	1600.9	1605.3	1611.2	1609.7	1610.4	1616.3	1619.9	1620.6
27.5°	1687.1	1687.1	1695.9	1695.9	1701.8	1708.3	1710.5	1713.4	1717.8	1722.9	1722.9
30°	1780.7	1780.7	1788.7	1796.0	1798.9	1807.0	1811.4	1815.7	1823.8	1825.2	1831.8
32.5°	1887.3	1889.5	1897.6	1902.0	1908.5	1918.0	1919.5	1924.6	1934.1	1937.0	1942.1
35°	2026.2	2018.9	2026.2	2034.2	2037.9	2034.9	2051.0	2057.6	2064.2	2067.8	2074.4
37.5°	2169.4	2157.0	2157.7	2156.2	2147.5	2152.6	2152.6	2151.1	2155.5	2154.8	2157.7
40°	2350.6	2328.7	2322.1	2308.2	2289.2	2279.0	2268.0	2266.6	2255.6	2260.0	2252.0
42.5°	2599.0	2566.1	2548.6	2505.5	2482.1	2454.4	2427.3	2403.9	2391.5	2377.6	2367.4
45°	2940.3	2901.5	2859.2	2789.7	2749.5	2694.0	2658.2	2604.9	2569.1	2539.1	2517.9
47.5°	3368.4	3303.4	3269.1	3204.0	3133.9	3049.9	2973.1	2898.6	2838.0	2772.2	2720.3
50°	3866.0	3784.9	3757.9	3671.7	3632.2	3538.0	3456.1	3364.1	3269.1	3169.7	3074.7
52.5°	4306.6	4297.1	4308.1	4250.4	4248.9	4201.4	4110.8	4003.4	3915.0	3814.9	3689.9
55°	4834.9	4929.2	4949.6	4941.6	4984.7	4983.2	4974.5	4963.5	4893.4	4751.6	4708.5
57.5°	5767.3	5873.2	6029.6	6100.4	6256.8	6275.1	6419.8	6363.5	6470.9	6441.7	6461.4
60°	6716.4	7041.6	7338.2	7564.0	7783.2	7982.7	8226.7	8331.2	8409.4	8531.4	8660.0
62.5°	7140.9	7550.8	7904.5	8226.0	8498.5	8751.4	8961.1	9159.8	9316.2	9456.5	9564.6
65°	6969.2	7444.9	7789.8	8125.2	8379.4	8614.7	8823.0	8972.0	9127.7	9254.8	9369.5
67.5°	5802.3	6435.8	6885.9	7266.6	7585.9	7854.1	8070.4	8275.7	8386.0	8524.8	8587.0
70°	3843.4	4655.9	5292.3	5806.7	6313.1	6617.0	6873.5	7112.4	7238.1	7350.6	7420.1
72.5°	2110.9	2666.3	3345.8	3957.4	4444.0	4842.9	5141.8	5368.3	5497.6	5594.1	5494.0
75°	1196.1	1470.1	1802.6	2140.9	2509.9	2791.2	2870.1	2966.6	2989.2	2939.5	2810.9
77.5°	1099.7	1099.7	1100.4	1092.4	1108.4	1128.2	1116.5	1096.8	1007.6	987.9	960.1
80°	1429.9	1274.3	1107.7	909.7	741.6	625.5	589.7	592.6	621.1	676.6	738.0
82.5°	2026.9	1873.5	1633.1	1331.3	1059.5	831.5	681.7	613.0	612.3	667.8	747.5
85°	1478.2	1490.6	1437.2	1271.4	1014.2	798.6	645.2	495.4	447.2	447.2	441.3
87.5°	258.7	266.7	230.2	206.1	143.9	101.6	91.3	80.4	79.6	82.6	76.0
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9
2.5°	1033.2	1031.7	1030.3	1029.5	1029.5	1028.1	1028.1	1026.6	1027.3	1026.6	1024.4
5°	1066.8	1066.1	1063.9	1060.2	1059.5	1056.6	1057.3	1054.4	1054.4	1052.9	1049.3
7.5°	1109.2	1107.7	1106.2	1103.3	1100.4	1100.4	1095.3	1095.3	1091.6	1090.2	1087.3
10°	1159.6	1155.2	1153.0	1150.1	1149.4	1148.6	1143.5	1143.5	1139.1	1138.4	1136.2
12.5°	1209.3	1206.4	1204.2	1202.7	1199.0	1198.3	1196.1	1193.9	1191.7	1190.3	1189.5
15°	1263.3	1261.9	1259.7	1259.7	1259.7	1256.0	1253.8	1252.4	1252.4	1250.2	1251.7
17.5°	1333.5	1335.7	1332.8	1331.3	1329.1	1332.8	1329.1	1329.1	1331.3	1331.3	1326.2
20°	1420.4	1423.4	1420.4	1421.2	1419.7	1420.4	1421.2	1422.6	1425.6	1420.4	1421.2
22.5°	1516.9	1517.6	1519.8	1517.6	1521.3	1519.1	1523.5	1527.1	1526.4	1524.9	1525.7
25°	1622.1	1619.9	1620.6	1627.2	1632.3	1630.9	1631.6	1637.5	1636.0	1634.5	1635.3
27.5°	1728.8	1727.3	1729.5	1735.4	1741.2	1740.5	1739.0	1743.4	1743.4	1739.7	1741.2
30°	1834.7	1836.9	1840.6	1840.6	1843.5	1846.4	1844.2	1849.4	1850.1	1847.2	1850.8
32.5°	1946.5	1950.9	1949.5	1959.7	1959.7	1960.4	1962.6	1961.9	1969.2	1963.3	1965.5
35°	2081.0	2082.4	2091.2	2098.5	2102.9	2106.6	2106.6	2108.7	2112.4	2109.5	2113.9
37.5°	2162.8	2165.7	2168.7	2173.0	2173.0	2173.0	2176.7	2177.4	2179.6	2178.9	2180.3
40°	2252.7	2253.4	2254.1	2254.9	2257.8	2259.3	2255.6	2260.7	2257.1	2258.5	2260.7
42.5°	2361.6	2351.3	2352.8	2350.6	2355.7	2349.1	2350.6	2356.4	2353.5	2357.9	2357.9
45°	2488.0	2476.3	2466.0	2460.2	2460.2	2451.4	2452.9	2455.1	2458.7	2464.6	2474.8
47.5°	2675.0	2634.8	2615.1	2594.6	2584.4	2573.5	2577.1	2577.8	2579.3	2588.8	2614.4
50°	2981.2	2914.0	2862.1	2800.0	2776.6	2757.6	2746.6	2747.4	2747.4	2767.1	2792.7
52.5°	3573.0	3448.1	3324.6	3216.5	3123.7	3079.1	3027.2	3014.1	3014.8	3031.6	3049.1
55°	4595.2	4423.5	4292.7	4052.4	3979.3	3774.0	3665.8	3603.7	3555.5	3578.9	3604.4
57.5°	6429.3	6270.7	6166.9	5879.8	5618.2	5543.7	5366.1	5222.2	5163.0	5094.3	5098.7
60°	8679.0	8597.2	8570.9	8402.8	8308.6	8015.6	7992.2	7810.2	7638.5	7490.2	7550.8
62.5°	9647.9	9685.9	9716.6	9775.8	9798.4	9770.7	9653.0	9572.6	9431.6	9237.3	9118.2
65°	9403.1	9490.1	9620.9	9744.4	9891.9	10014.7	10075.4	10052.0	9924.8	9724.6	9474.7
67.5°	8631.5	8719.9	8832.5	8988.8	9214.6	9453.5	9620.1	9726.1	9625.3	9444.8	9190.5
70°	7416.4	7502.6	7506.3	7724.8	7968.1	8269.1	8564.3	8675.4	8560.7	8440.1	8227.5
72.5°	5554.6	5502.8	5551.0	5591.2	5730.0	5920.0	6206.4	6194.0	6018.6	5925.1	5598.5
75°	2610.7	2575.6	2524.5	2490.9	2458.7	2391.5	2423.7	2286.3	2238.8	2257.8	1975.8
77.5°	938.9	890.7	813.2	738.0	643.0	532.7	449.4	394.6	367.5	368.3	351.5
80°	787.7	811.1	800.1	725.6	618.9	503.4	377.0	285.7	244.0	226.5	215.6
82.5°	854.2	971.8	1030.3	984.2	831.5	640.1	412.1	249.2	182.7	156.4	149.8
85°	473.5	474.2	459.6	439.1	389.5	267.4	178.3	118.4	95.0	84.8	81.8
87.5°	80.4	76.7	76.7	71.6	62.8	61.4	54.8	51.9	46.0	42.4	40.9
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°	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9
2.5°	1022.2	1020.8	1020.0	1019.3	1019.3	1018.6	1018.6	1017.1	1015.6	1014.9	1014.2
5°	1045.6	1044.1	1042.7	1041.2	1041.2	1039.8	1038.3	1036.8	1034.6	1031.0	1030.3
7.5°	1085.1	1082.1	1082.1	1077.0	1077.0	1074.1	1071.9	1071.9	1069.0	1063.1	1062.4
10°	1134.0	1128.9	1126.7	1123.8	1122.3	1119.4	1119.4	1116.5	1115.0	1112.8	1105.5
12.5°	1186.6	1183.0	1181.5	1177.9	1175.7	1175.7	1174.2	1169.1	1172.7	1167.6	1164.0
15°	1250.2	1249.5	1242.9	1245.1	1244.3	1243.6	1244.3	1240.0	1239.2	1239.2	1234.8
17.5°	1329.8	1324.0	1324.7	1324.7	1326.2	1326.2	1320.3	1323.3	1324.0	1322.5	1321.1
20°	1423.4	1421.2	1423.4	1419.0	1423.4	1423.4	1426.3	1425.6	1426.3	1427.7	1427.7
22.5°	1523.5	1529.3	1530.0	1531.5	1526.4	1535.2	1535.2	1536.6	1540.3	1540.3	1541.7
25°	1644.8	1641.8	1638.2	1643.3	1644.8	1650.6	1652.1	1652.1	1657.9	1657.9	1660.1
27.5°	1745.6	1748.5	1747.8	1750.7	1749.2	1757.3	1760.2	1769.0	1766.8	1771.2	1777.0
30°	1849.4	1855.2	1852.3	1853.0	1856.7	1861.8	1867.6	1876.4	1877.8	1889.5	1892.5
32.5°	1969.2	1973.6	1977.2	1978.7	1978.7	1987.5	1996.9	1999.9	2015.2	2024.0	2034.2
35°	2121.2	2121.9	2124.1	2126.3	2124.8	2134.3	2143.8	2146.7	2162.8	2165.0	2186.2
37.5°	2185.5	2186.9	2195.7	2200.1	2203.0	2214.7	2232.2	2245.4	2262.9	2279.7	2303.8
40°	2265.8	2274.6	2282.6	2289.2	2300.2	2316.3	2343.3	2356.4	2382.7	2414.2	2437.5
42.5°	2367.4	2383.5	2389.3	2401.7	2428.8	2448.5	2475.5	2504.0	2539.1	2577.1	2604.9
45°	2488.0	2503.3	2525.2	2539.1	2570.5	2602.0	2645.1	2669.9	2705.7	2749.5	2780.2
47.5°	2634.1	2655.3	2677.2	2705.7	2743.0	2775.9	2819.0	2851.1	2886.9	2922.7	2956.3
50°	2816.0	2847.5	2876.7	2906.6	2956.3	2984.1	3026.5	3060.1	3093.7	3129.5	3160.2
52.5°	3060.8	3108.3	3145.6	3166.0	3233.3	3261.0	3312.9	3336.3	3364.1	3396.2	3435.7
55°	3594.9	3668.7	3731.6	3768.1	3870.4	3906.9	3974.2	4008.5	3989.5	4030.4	4101.3
57.5°	5139.6	5230.2	5305.5	5355.2	5459.6	5510.8	5514.4	5643.0	5567.1	5642.3	5653.3
60°	7389.4	7461.0	7442.7	7443.4	7410.6	7363.1	7454.4	7315.6	7374.0	7377.7	7246.9
62.5°	8898.2	8788.6	8737.5	8652.7	8554.1	8478.1	8426.2	8314.4	8225.3	8154.4	8016.3
65°	9253.3	9063.4	8895.3	8736.7	8591.3	8490.5	8380.9	8261.1	8121.5	8003.9	7869.4
67.5°	8909.9	8643.9	8394.8	8185.8	7987.1	7854.1	7695.5	7581.5	7406.2	7251.3	7149.0
70°	7914.0	7545.7	7254.9	7121.2	6923.9	6638.2	6487.0	6344.5	6237.1	6096.8	6034.7
72.5°	5551.7	5097.2	4872.9	4881.7	4681.5	4476.9	4482.0	4395.0	4256.2	4251.8	4230.6
75°	2040.1	1855.9	1726.6	1732.4	1657.9	1578.3	1600.2	1623.6	1578.3	1670.3	1527.9
77.5°	324.4	315.7	312.7	306.2	290.1	301.8	293.7	309.1	311.3	328.1	329.5
80°	206.8	198.0	195.8	192.2	191.4	191.4	190.0	190.0	190.0	190.7	189.2
82.5°	138.1	133.0	132.3	130.1	133.7	134.4	135.2	141.0	146.1	147.6	153.4
85°	75.3	71.6	71.6	70.1	73.1	73.8	80.4	88.4	98.6	103.0	112.5
87.5°	38.0	40.2	39.5	40.9	43.1	48.2	53.3	58.5	64.3	72.3	78.9
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°	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9	1014.9
2.5°	1012.7	1012.0	1012.0	1010.5	1010.5	1009.8	1008.3	1006.9	1000.3	992.3	987.1
5°	1028.1	1026.6	1025.9	1024.4	1022.2	1022.2	1020.0	1017.1	1004.7	991.5	983.5
7.5°	1059.5	1058.8	1056.6	1053.6	1050.7	1047.8	1046.3	1044.9	1025.9	1013.5	1007.6
10°	1104.8	1104.1	1098.9	1098.2	1093.8	1094.6	1090.9	1088.0	1075.6	1061.7	1053.6
12.5°	1162.5	1165.4	1162.5	1155.9	1157.4	1155.2	1151.6	1147.9	1136.9	1126.0	1113.6
15°	1234.1	1230.5	1227.5	1233.4	1228.3	1227.5	1229.7	1230.5	1217.3	1205.6	1188.1
17.5°	1323.3	1323.3	1321.8	1323.3	1320.3	1322.5	1321.1	1322.5	1316.7	1300.6	1275.0
20°	1424.8	1430.7	1430.7	1428.5	1427.7	1432.1	1434.3	1426.3	1427.7	1413.9	1367.8
22.5°	1543.2	1547.6	1549.0	1546.9	1547.6	1553.4	1557.1	1551.2	1564.4	1541.7	1470.9
25°	1665.2	1671.8	1668.9	1669.6	1675.4	1682.0	1688.6	1682.8	1708.3	1673.3	1580.5
27.5°	1785.8	1791.6	1790.2	1794.6	1804.0	1812.8	1820.1	1817.9	1860.3	1814.3	1695.9
30°	1899.8	1913.7	1916.6	1921.7	1933.4	1948.0	1959.7	1959.0	2013.8	1951.6	1790.2
32.5°	2040.1	2055.4	2061.2	2072.2	2094.9	2105.1	2119.7	2121.2	2176.0	2072.2	1869.8
35°	2202.3	2217.6	2230.0	2238.1	2263.6	2276.1	2290.7	2297.3	2333.8	2184.7	1925.3
37.5°	2327.9	2341.1	2365.2	2382.0	2404.7	2429.5	2446.3	2454.4	2474.8	2281.2	1950.9
40°	2465.3	2493.8	2517.2	2542.8	2567.6	2587.3	2602.7	2615.1	2607.1	2361.6	1940.0
42.5°	2639.2	2669.2	2700.6	2722.5	2735.7	2762.0	2769.3	2778.0	2712.3	2398.1	1890.3
45°	2820.4	2844.5	2870.8	2886.9	2904.5	2917.6	2919.8	2920.5	2790.5	2376.9	1800.4
47.5°	2995.1	3015.5	3033.8	3042.6	3051.3	3052.1	3048.4	3042.6	2832.1	2305.3	1692.3
50°	3186.5	3198.9	3207.0	3207.7	3215.7	3200.4	3190.2	3163.1	2827.7	2195.7	1578.3
52.5°	3462.0	3459.0	3448.8	3448.1	3422.5	3393.3	3374.3	3335.6	2797.8	2077.3	1446.7
55°	4094.7	4067.0	4099.1	4017.3	3949.3	3904.0	3796.6	3718.4	2827.7	1967.0	1295.5
57.5°	5615.3	5520.3	5530.5	5398.3	5253.6	4982.5	4822.5	4606.2	3063.0	1905.6	1104.8
60°	7219.1	7062.8	6915.2	6680.6	6373.0	6028.8	5719.0	5380.7	3296.8	1830.4	901.7
62.5°	7881.1	7679.4	7423.0	7092.0	6696.7	6270.0	5841.8	5456.0	3168.2	1603.8	649.6
65°	7667.8	7426.6	7153.4	6721.5	6272.9	5776.8	5307.7	4899.9	2638.5	1172.7	392.4
67.5°	6910.0	6702.5	6365.7	5958.0	5402.6	4905.1	4441.1	4064.0	1945.1	724.8	225.0
70°	5818.4	5531.2	5243.4	4851.7	4266.4	3797.3	3365.5	3032.3	1234.1	358.0	165.9
72.5°	4015.8	3788.6	3558.4	3207.7	2770.7	2447.8	2076.6	1802.6	645.9	192.9	152.7
75°	1564.4	1539.5	1513.2	1354.0	1205.6	966.0	848.3	765.0	268.9	167.3	150.5
77.5°	343.4	363.9	375.6	355.8	339.0	302.5	289.3	258.7	179.7	171.7	149.1
80°	189.2	189.2	189.2	191.4	187.8	187.8	185.6	181.9	168.1	171.7	146.1
82.5°	154.9	157.1	160.0	160.7	160.0	160.7	159.3	158.6	164.4	172.4	138.8
85°	118.4	125.7	130.1	135.9	141.8	145.4	146.9	147.6	151.3	163.7	121.3
87.5°	84.0	89.9	99.4	100.8	107.4	115.4	118.4	122.8	120.6	124.2	57.0
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: P146349
 CATALOG NUMBER: LDRL-T2-E04-E-7030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	1014.9	1014.9	1014.9	1014.9	1014.9
2.5°	982.8	976.9	974.7	974.0	972.5
5°	976.9	973.3	970.3	968.2	969.6
7.5°	1003.2	1001.0	995.9	994.5	996.6
10°	1050.0	1044.9	1037.6	1038.3	1037.6
12.5°	1108.4	1094.6	1082.9	1077.8	1074.1
15°	1168.4	1141.3	1117.2	1106.2	1101.9
17.5°	1234.8	1188.8	1151.6	1131.8	1128.2
20°	1305.0	1241.4	1193.2	1169.8	1166.2
22.5°	1386.1	1298.4	1237.0	1204.9	1199.8
25°	1465.0	1349.6	1267.7	1228.3	1221.7
27.5°	1536.6	1388.3	1286.0	1239.2	1232.7
30°	1596.5	1419.0	1301.3	1248.0	1240.7
32.5°	1636.0	1435.8	1306.5	1248.7	1240.0
35°	1648.4	1424.8	1284.5	1218.0	1210.7
37.5°	1622.1	1380.3	1226.1	1150.8	1145.0
40°	1562.2	1297.7	1134.0	1055.8	1048.5
42.5°	1468.7	1193.2	1027.3	944.8	938.2
45°	1364.9	1081.4	914.1	831.5	824.9
47.5°	1251.7	963.0	795.0	719.0	708.8
50°	1127.4	834.4	673.7	599.2	589.7
52.5°	982.0	694.1	545.1	477.9	472.0
55°	811.8	553.1	434.0	385.1	379.2
57.5°	631.3	420.9	344.9	320.8	311.3
60°	458.1	320.0	274.7	263.0	257.9
62.5°	311.3	238.9	221.4	217.7	214.1
65°	211.2	187.1	181.9	182.7	180.5
67.5°	166.6	157.1	154.2	155.6	154.9
70°	146.1	138.8	138.1	139.6	138.8
72.5°	138.1	128.6	130.1	132.3	131.5
75°	134.4	124.2	127.1	128.6	124.9
77.5°	130.8	117.6	126.4	129.3	122.0
80°	125.7	111.8	132.3	130.8	116.9
82.5°	114.7	98.6	129.3	118.4	105.2
85°	93.5	73.8	145.4	104.5	76.7
87.5°	59.9	44.6	100.8	79.6	51.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)