

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: P146348

Luminaire Tested: **LDRL-T2-E04-E-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P146348  
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-8030  
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2  
Light Source: (84) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10123.1 lumens  
Efficiency: N/A  
Efficacy: 104.1 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

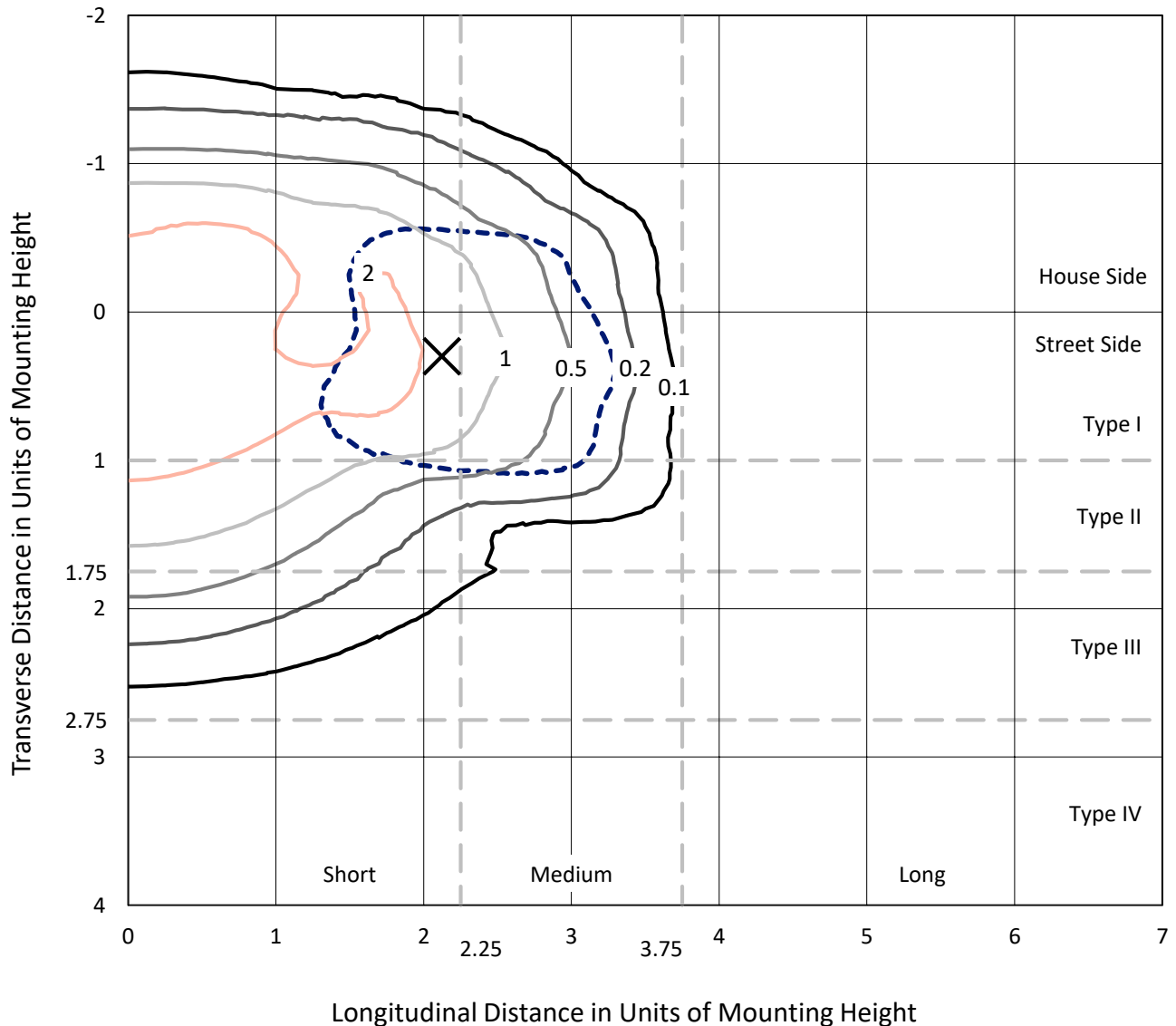
Input Watts (W): 97.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

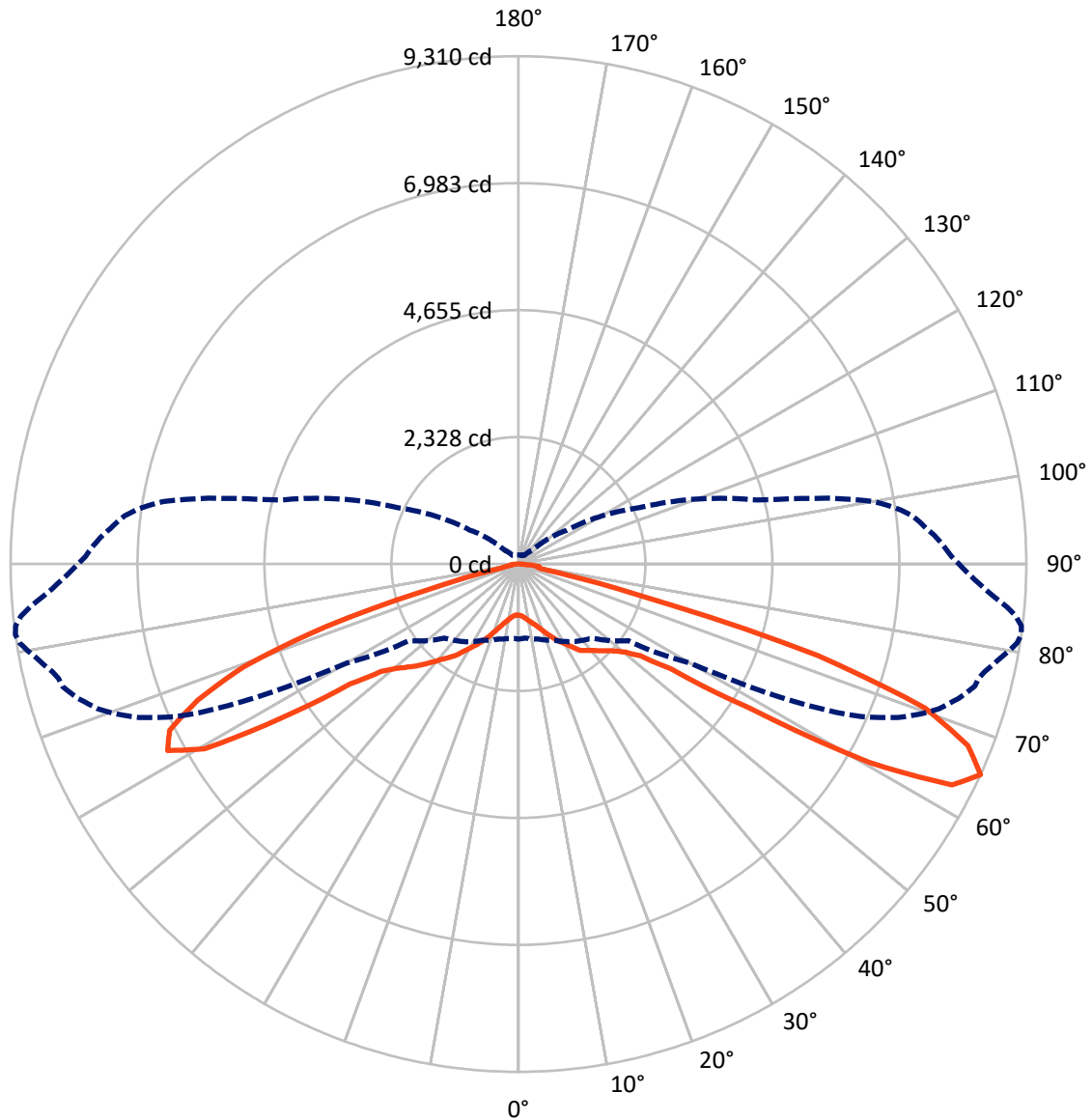
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3 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
<b>House Side</b>	Lumens	3726.4	0.0	3726.4
	% Fixture	36.8	0.0	36.8
<b>Street Side</b>	Lumens	6396.7	0.0	6396.7
	% Fixture	63.2	0.0	63.2
<b>Total</b>	Lumens	10123.1	0.0	10123.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.2	0.9
10°-20°	335.2	3.3
20°-30°	664.9	6.6
30°-40°	1134.6	11.2
40°-50°	1701.3	16.8
50°-60°	2368.1	23.4
60°-70°	2720.6	26.9
70°-80°	938.9	9.3
80°-90°	164.2	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°	10123.1	100.0
0°-180°	10123.1	100.0



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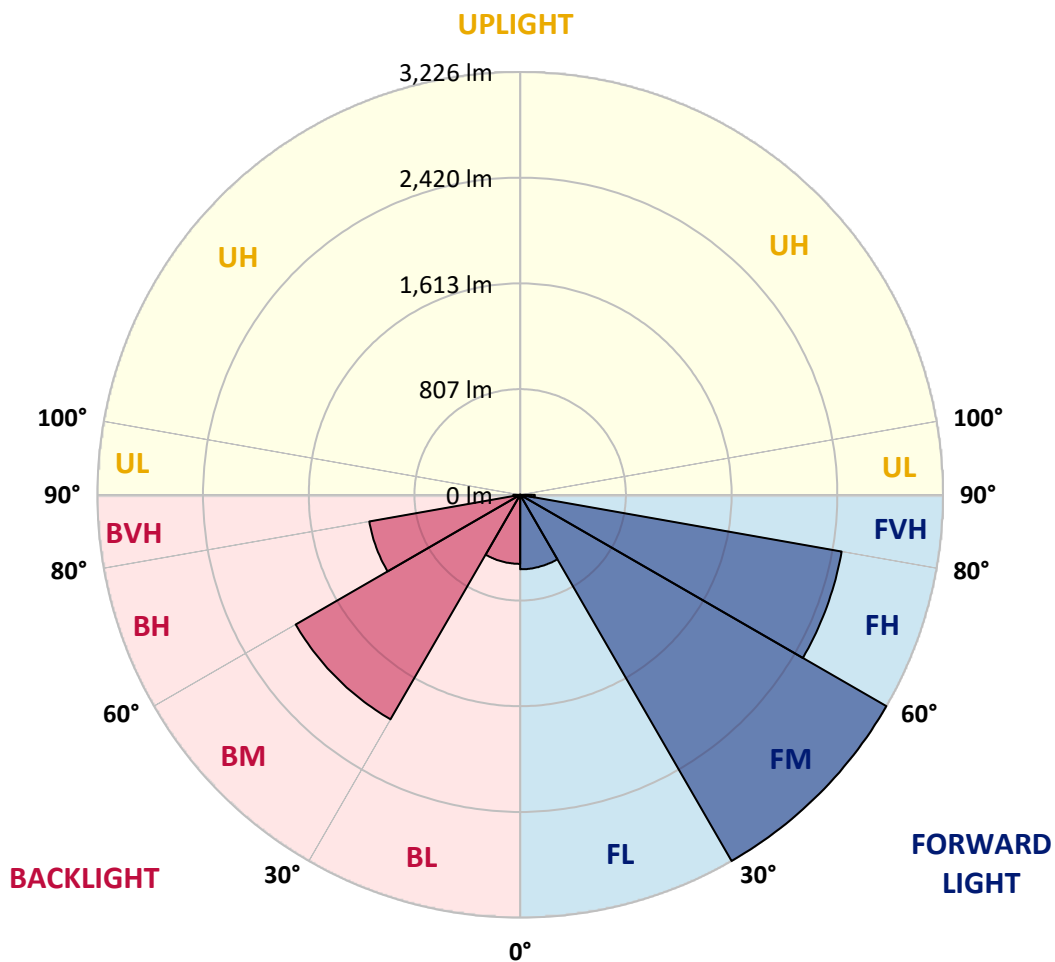
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	568.2	5.6			
FM (30°-60°)	3226.3	31.9			
FH (60°-80°)	2490.6	24.6			G2/5000
FVH (80°-90°)	111.5	1.1			G2/225
BL (0°-30°)	527.1	5.2	B2/1000		
BM (30°-60°)	1977.7	19.5	B2/2500		
BH (60°-80°)	1168.9	11.5	B3/2500		G3/2500
BVH (80°-90°)	52.7	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°	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8
2.5°	989.8	989.2	988.5	985.8	984.4	979.0	973.6	970.3	967.6	968.9	964.9
5°	1047.2	1047.2	1044.5	1041.1	1037.1	1029.7	1016.2	1009.4	1008.1	1008.1	1003.3
7.5°	1106.0	1110.0	1102.6	1099.9	1093.1	1081.7	1066.1	1057.4	1054.7	1054.7	1050.6
10°	1180.2	1178.2	1170.1	1164.7	1151.2	1135.7	1114.7	1104.6	1100.6	1103.9	1097.2
12.5°	1258.6	1257.9	1245.7	1235.6	1216.7	1191.7	1164.0	1150.5	1147.8	1147.8	1143.8
15°	1338.2	1338.9	1325.4	1306.5	1276.8	1243.0	1212.0	1199.1	1195.8	1194.4	1189.7
17.5°	1399.0	1405.8	1392.2	1367.9	1331.5	1294.3	1261.3	1248.4	1247.8	1246.4	1241.0
20°	1433.4	1434.8	1427.4	1409.8	1377.4	1341.6	1318.7	1312.6	1311.9	1312.6	1313.9
22.5°	1432.1	1434.1	1431.4	1424.7	1403.7	1384.1	1381.4	1384.8	1386.8	1384.8	1389.5
25°	1421.3	1424.0	1424.0	1427.4	1422.0	1428.7	1450.3	1459.8	1460.4	1461.8	1471.9
27.5°	1444.9	1447.6	1446.9	1453.0	1457.7	1481.4	1520.5	1537.4	1539.4	1544.2	1553.6
30°	1554.3	1555.0	1542.8	1542.1	1546.9	1565.8	1605.6	1625.2	1623.2	1632.6	1638.7
32.5°	1727.1	1732.5	1720.4	1707.6	1705.5	1708.2	1715.7	1729.2	1727.1	1731.9	1740.0
35°	1924.3	1925.0	1918.2	1925.6	1929.7	1911.5	1876.4	1873.0	1862.2	1864.2	1866.9
37.5°	2105.3	2110.0	2122.8	2170.1	2197.1	2152.5	2083.6	2040.4	2033.7	2030.3	2006.7
40°	2274.7	2298.4	2329.4	2390.9	2428.0	2444.2	2346.3	2259.2	2235.6	2226.1	2189.0
42.5°	2473.2	2485.4	2521.8	2592.1	2641.4	2715.0	2649.5	2553.6	2525.9	2485.4	2438.8
45°	2641.4	2649.5	2672.4	2731.8	2835.1	2958.0	2965.4	2898.6	2877.0	2836.5	2768.3
47.5°	2754.1	2753.4	2770.3	2828.4	2962.7	3150.4	3261.9	3259.2	3234.2	3220.0	3161.9
50°	2798.0	2797.3	2808.1	2872.9	3019.5	3265.2	3511.0	3595.4	3594.7	3600.1	3570.4
52.5°	2806.1	2805.4	2806.8	2858.8	3008.0	3305.1	3690.6	3889.8	3918.8	3955.3	3988.4
55°	2745.3	2752.1	2766.9	2821.6	2964.8	3288.9	3823.6	4165.9	4235.5	4309.8	4429.9
57.5°	2604.9	2617.7	2669.0	2766.9	2918.9	3249.0	3916.1	4507.6	4648.7	4828.3	5153.7
60°	2403.7	2415.2	2486.1	2615.7	2785.2	3075.5	3808.8	4650.7	4918.8	5230.7	5897.8
62.5°	2047.9	2080.3	2118.1	2209.9	2387.5	2621.1	3326.7	4409.0	4824.3	5282.0	6200.3
65°	1375.4	1361.9	1424.7	1541.5	1736.6	1918.2	2450.9	3636.6	4161.9	4791.8	5928.2
67.5°	851.4	853.4	896.0	1010.1	1157.3	1298.4	1553.6	2317.9	2783.8	3382.7	4749.3
70°	703.6	711.7	746.1	852.1	977.7	1137.0	1153.2	1228.9	1437.5	1727.1	2933.7
72.5°	558.4	561.8	596.9	685.3	862.9	1081.7	1369.3	933.8	917.6	961.5	1488.1
75°	346.4	349.1	366.6	423.3	559.7	842.6	1507.7	1073.6	1006.0	949.3	958.8
77.5°	178.9	184.3	193.8	219.4	293.7	470.6	1187.0	1361.2	1284.2	1207.2	1056.7
80°	101.3	101.3	110.1	116.1	139.1	191.8	603.6	1473.3	1609.7	1642.7	1475.3
82.5°	45.2	50.6	68.2	72.9	79.7	87.8	199.9	885.2	1228.2	1534.0	1895.9
85°	27.0	26.3	43.2	47.3	49.3	41.9	74.9	361.2	573.9	839.9	1256.5
87.5°	10.8	11.5	18.2	19.6	23.0	16.9	28.4	77.6	114.1	165.4	233.6
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°	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8
2.5°	964.2	964.2	963.5	962.8	962.1	960.1	959.4	958.1	957.4	955.4	954.7
5°	1002.7	1000.6	1000.0	998.6	997.9	995.2	995.2	992.5	990.5	987.8	987.1
7.5°	1048.6	1045.9	1043.8	1042.5	1041.8	1037.1	1037.1	1033.0	1032.4	1029.0	1027.6
10°	1095.2	1093.1	1090.4	1089.1	1088.4	1085.7	1083.0	1080.3	1078.3	1076.3	1073.6
12.5°	1141.8	1137.7	1136.3	1134.3	1133.0	1130.9	1130.3	1124.2	1124.2	1122.2	1119.5
15°	1187.0	1186.3	1181.6	1180.9	1179.6	1180.2	1176.2	1176.9	1174.8	1171.5	1170.1
17.5°	1242.4	1237.6	1239.7	1236.3	1237.0	1235.6	1234.3	1233.6	1234.9	1234.3	1235.6
20°	1311.2	1309.9	1311.9	1307.2	1311.9	1312.6	1311.2	1314.6	1313.2	1314.6	1310.5
22.5°	1392.9	1388.2	1388.2	1391.6	1393.6	1399.7	1396.3	1399.0	1401.7	1403.7	1401.0
25°	1475.3	1473.9	1476.6	1479.3	1483.4	1488.8	1487.4	1488.1	1493.5	1496.9	1497.6
27.5°	1559.0	1559.0	1567.1	1567.1	1572.5	1578.6	1580.6	1583.3	1587.4	1592.1	1592.1
30°	1645.4	1645.4	1652.9	1659.6	1662.3	1669.8	1673.8	1677.9	1685.3	1686.6	1692.7
32.5°	1744.0	1746.0	1753.5	1757.5	1763.6	1772.4	1773.7	1778.5	1787.2	1789.9	1794.7
35°	1872.3	1865.6	1872.3	1879.7	1883.1	1880.4	1895.3	1901.3	1907.4	1910.8	1916.9
37.5°	2004.6	1993.2	1993.8	1992.5	1984.4	1989.1	1989.1	1987.8	1991.8	1991.1	1993.8
40°	2172.1	2151.8	2145.8	2132.9	2115.4	2105.9	2095.8	2094.4	2084.3	2088.4	2080.9
42.5°	2401.7	2371.3	2355.1	2315.2	2293.6	2268.0	2243.0	2221.4	2209.9	2197.1	2187.6
45°	2717.0	2681.2	2642.0	2577.9	2540.8	2489.4	2456.4	2407.1	2374.0	2346.3	2326.7
47.5°	3112.6	3052.5	3020.8	2960.7	2895.9	2818.3	2747.4	2678.5	2622.4	2561.7	2513.7
50°	3572.4	3497.5	3472.5	3392.8	3356.4	3269.3	3193.7	3108.6	3020.8	2929.0	2841.2
52.5°	3979.6	3970.8	3980.9	3927.6	3926.2	3882.4	3798.6	3699.4	3617.7	3525.2	3409.7
55°	4467.8	4554.9	4573.8	4566.3	4606.2	4604.8	4596.7	4586.6	4521.8	4390.8	4350.9
57.5°	5329.3	5427.2	5571.7	5637.2	5781.7	5798.6	5932.2	5880.3	5979.5	5952.5	5970.7
60°	6206.4	6506.8	6781.0	6989.6	7192.2	7376.5	7602.0	7698.5	7770.8	7883.6	8002.4
62.5°	6598.7	6977.4	7304.2	7601.3	7853.2	8086.8	8280.6	8464.2	8608.7	8738.3	8838.3
65°	6440.0	6879.5	7198.2	7508.1	7743.1	7960.5	8153.0	8290.7	8434.5	8552.0	8658.0
67.5°	5361.7	5947.1	6363.0	6714.8	7009.9	7257.6	7457.5	7647.2	7749.2	7877.5	7934.9
70°	3551.5	4302.3	4890.4	5365.8	5833.7	6114.5	6351.5	6572.3	6688.5	6792.4	6856.6
72.5°	1950.6	2463.8	3091.7	3656.8	4106.5	4475.2	4751.3	4960.6	5080.2	5169.3	5076.8
75°	1105.3	1358.5	1665.7	1978.3	2319.3	2579.2	2652.2	2741.3	2762.2	2716.3	2597.5
77.5°	1016.2	1016.2	1016.8	1009.4	1024.3	1042.5	1031.7	1013.5	931.1	912.9	887.2
80°	1321.4	1177.5	1023.6	840.6	685.3	578.0	544.9	547.6	573.9	625.2	681.9
82.5°	1873.0	1731.2	1509.1	1230.2	979.0	768.4	630.0	566.5	565.8	617.1	690.7
85°	1365.9	1377.4	1328.1	1174.8	937.2	738.0	596.2	457.8	413.2	413.2	407.8
87.5°	239.0	246.4	212.7	190.4	133.0	93.9	84.4	74.3	73.6	76.3	70.2
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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**CANDELA DISTRIBUTION (continued):**

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8
2.5°	954.7	953.4	952.0	951.3	951.3	950.0	950.0	948.6	949.3	948.6	946.6
5°	985.8	985.1	983.1	979.7	979.0	976.3	977.0	974.3	974.3	973.0	969.6
7.5°	1024.9	1023.6	1022.2	1019.5	1016.8	1016.8	1012.1	1012.1	1008.7	1007.4	1004.7
10°	1071.5	1067.5	1065.5	1062.8	1062.1	1061.4	1056.7	1056.7	1052.6	1052.0	1049.9
12.5°	1117.4	1114.7	1112.7	1111.4	1108.0	1107.3	1105.3	1103.3	1101.2	1099.9	1099.2
15°	1167.4	1166.1	1164.0	1164.0	1164.0	1160.7	1158.6	1157.3	1157.3	1155.3	1156.6
17.5°	1232.2	1234.3	1231.6	1230.2	1228.2	1231.6	1228.2	1228.2	1230.2	1230.2	1225.5
20°	1312.6	1315.3	1312.6	1313.2	1311.9	1312.6	1313.2	1314.6	1317.3	1312.6	1313.2
22.5°	1401.7	1402.4	1404.4	1402.4	1405.8	1403.7	1407.8	1411.2	1410.5	1409.1	1409.8
25°	1498.9	1496.9	1497.6	1503.7	1508.4	1507.0	1507.7	1513.1	1511.8	1510.4	1511.1
27.5°	1597.5	1596.2	1598.2	1603.6	1609.0	1608.3	1607.0	1611.0	1611.0	1607.6	1609.0
30°	1695.4	1697.4	1700.8	1700.8	1703.5	1706.2	1704.2	1708.9	1709.6	1706.9	1710.3
32.5°	1798.7	1802.8	1801.4	1810.9	1810.9	1811.5	1813.6	1812.9	1819.6	1814.2	1816.3
35°	1922.9	1924.3	1932.4	1939.2	1943.2	1946.6	1946.6	1948.6	1952.0	1949.3	1953.3
37.5°	1998.6	2001.3	2004.0	2008.0	2008.0	2008.0	2011.4	2012.1	2014.1	2013.4	2014.8
40°	2081.6	2082.3	2083.0	2083.6	2086.3	2087.7	2084.3	2089.0	2085.7	2087.0	2089.0
42.5°	2182.2	2172.8	2174.1	2172.1	2176.8	2170.7	2172.1	2177.5	2174.8	2178.8	2178.8
45°	2299.0	2288.2	2278.8	2273.4	2273.4	2265.3	2266.6	2268.6	2272.0	2277.4	2286.9
47.5°	2471.9	2434.7	2416.5	2397.6	2388.2	2378.0	2381.4	2382.1	2383.4	2392.2	2415.8
50°	2754.8	2692.7	2644.7	2587.3	2565.7	2548.2	2538.0	2538.7	2538.7	2557.0	2580.6
52.5°	3301.7	3186.2	3072.1	2972.2	2886.4	2845.3	2797.3	2785.2	2785.8	2801.4	2817.6
55°	4246.3	4087.6	3966.8	3744.6	3677.1	3487.4	3387.4	3330.1	3285.5	3307.1	3330.7
57.5°	5941.0	5794.5	5698.6	5433.3	5191.6	5122.7	4958.6	4825.6	4770.9	4707.4	4711.5
60°	8019.9	7944.3	7920.0	7764.7	7677.6	7406.9	7385.3	7217.1	7058.5	6921.4	6977.4
62.5°	8915.2	8950.4	8978.7	9033.4	9054.3	9028.7	8920.0	8845.7	8715.4	8535.8	8425.7
65°	8689.1	8769.4	8890.3	9004.4	9140.8	9254.2	9310.2	9288.6	9171.1	8986.1	8755.2
67.5°	7976.1	8057.8	8161.7	8306.2	8514.9	8735.6	8889.6	8987.5	8894.3	8727.5	8492.6
70°	6853.2	6932.9	6936.3	7138.1	7363.0	7641.2	7913.9	8016.6	7910.6	7799.2	7602.7
72.5°	5132.8	5084.9	5129.4	5166.6	5294.9	5470.4	5735.1	5723.6	5561.6	5475.1	5173.3
75°	2412.5	2380.1	2332.8	2301.7	2272.0	2209.9	2239.6	2112.7	2068.8	2086.3	1825.7
77.5°	867.6	823.1	751.5	681.9	594.2	492.2	415.2	364.6	339.6	340.3	324.8
80°	727.9	749.5	739.3	670.5	571.9	465.2	348.4	264.0	225.5	209.3	199.2
82.5°	789.3	898.0	952.0	909.5	768.4	591.5	380.8	230.2	168.8	144.5	138.4
85°	437.5	438.2	424.7	405.8	359.9	247.1	164.7	109.4	87.8	78.3	75.6
87.5°	74.3	70.9	70.9	66.2	58.1	56.7	50.6	47.9	42.5	39.2	37.8
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):**

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8
2.5°	944.6	943.2	942.6	941.9	941.9	941.2	941.2	939.9	938.5	937.8	937.2
5°	966.2	964.9	963.5	962.1	962.1	960.8	959.4	958.1	956.1	952.7	952.0
7.5°	1002.7	1000.0	1000.0	995.2	995.2	992.5	990.5	990.5	987.8	982.4	981.7
10°	1047.9	1043.2	1041.1	1038.4	1037.1	1034.4	1034.4	1031.7	1030.3	1028.3	1021.6
12.5°	1096.5	1093.1	1091.8	1088.4	1086.4	1086.4	1085.0	1080.3	1083.7	1079.0	1075.6
15°	1155.3	1154.6	1148.5	1150.5	1149.9	1149.2	1149.9	1145.8	1145.1	1145.1	1141.1
17.5°	1228.9	1223.4	1224.1	1224.1	1225.5	1225.5	1220.1	1222.8	1223.4	1222.1	1220.7
20°	1315.3	1313.2	1315.3	1311.2	1315.3	1315.3	1318.0	1317.3	1318.0	1319.3	1319.3
22.5°	1407.8	1413.2	1413.9	1415.2	1410.5	1418.6	1418.6	1419.9	1423.3	1423.3	1424.7
25°	1519.9	1517.2	1513.8	1518.5	1519.9	1525.3	1526.6	1526.6	1532.0	1532.0	1534.0
27.5°	1613.0	1615.7	1615.1	1617.8	1616.4	1623.8	1626.5	1634.6	1632.6	1636.7	1642.1
30°	1708.9	1714.3	1711.6	1712.3	1715.7	1720.4	1725.8	1733.9	1735.2	1746.0	1748.7
32.5°	1819.6	1823.7	1827.1	1828.4	1828.4	1836.5	1845.3	1848.0	1862.2	1870.3	1879.7
35°	1960.1	1960.8	1962.8	1964.8	1963.5	1972.2	1981.0	1983.7	1998.6	2000.6	2020.2
37.5°	2019.5	2020.9	2029.0	2033.0	2035.7	2046.5	2062.7	2074.9	2091.1	2106.6	2128.9
40°	2093.8	2101.9	2109.3	2115.4	2125.5	2140.4	2165.3	2177.5	2201.8	2230.8	2252.4
42.5°	2187.6	2202.5	2207.9	2219.4	2244.3	2262.6	2287.6	2313.9	2346.3	2381.4	2407.1
45°	2299.0	2313.2	2333.5	2346.3	2375.3	2404.4	2444.2	2467.2	2500.2	2540.8	2569.1
47.5°	2434.1	2453.7	2473.9	2500.2	2534.7	2565.1	2604.9	2634.6	2667.7	2700.8	2731.8
50°	2602.2	2631.2	2658.2	2685.9	2731.8	2757.5	2796.6	2827.7	2858.8	2891.9	2920.2
52.5°	2828.4	2872.3	2906.7	2925.6	2987.7	3013.4	3061.3	3082.9	3108.6	3138.3	3174.8
55°	3321.9	3390.1	3448.2	3482.0	3576.5	3610.3	3672.4	3704.1	3686.6	3724.4	3789.9
57.5°	4749.3	4833.0	4902.6	4948.5	5045.0	5092.3	5095.7	5214.5	5144.3	5213.8	5224.0
60°	6828.2	6894.4	6877.5	6878.2	6847.8	6803.9	6888.3	6760.0	6814.0	6817.4	6696.6
62.5°	8222.5	8121.2	8074.0	7995.6	7904.5	7834.3	7786.3	7683.0	7600.6	7535.2	7407.5
65°	8550.6	8375.1	8219.8	8073.3	7938.9	7845.7	7744.5	7633.7	7504.8	7396.1	7271.8
67.5°	8233.3	7987.5	7757.3	7564.2	7380.5	7257.6	7111.1	7005.8	6843.8	6700.6	6606.1
70°	7313.0	6972.7	6704.0	6580.4	6398.1	6134.1	5994.4	5862.7	5763.4	5633.8	5576.4
72.5°	5130.1	4710.1	4502.9	4511.0	4326.0	4136.9	4141.6	4061.3	3933.0	3928.9	3909.4
75°	1885.1	1715.0	1595.5	1600.9	1532.0	1458.4	1478.7	1500.3	1458.4	1543.5	1411.8
77.5°	299.8	291.7	289.0	282.9	268.1	278.9	271.4	285.6	287.6	303.2	304.5
80°	191.1	183.0	181.0	177.6	176.9	176.9	175.6	175.6	175.6	176.2	174.9
82.5°	127.6	122.9	122.2	120.2	123.6	124.2	124.9	130.3	135.0	136.4	141.8
85°	69.5	66.2	66.2	64.8	67.5	68.2	74.3	81.7	91.2	95.2	104.0
87.5°	35.1	37.1	36.5	37.8	39.8	44.6	49.3	54.0	59.4	66.8	72.9
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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CATALOG NUMBER: LDRL-T2-E04-E-8030

**CANDELA DISTRIBUTION (continued):**

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8
2.5°	935.8	935.1	935.1	933.8	933.8	933.1	931.8	930.4	924.3	916.9	912.2
5°	950.0	948.6	948.0	946.6	944.6	944.6	942.6	939.9	928.4	916.2	908.8
7.5°	979.0	978.4	976.3	973.6	970.9	968.2	966.9	965.5	948.0	936.5	931.1
10°	1020.9	1020.2	1015.5	1014.8	1010.8	1011.4	1008.1	1005.4	993.9	981.1	973.6
12.5°	1074.2	1076.9	1074.2	1068.2	1069.5	1067.5	1064.1	1060.7	1050.6	1040.5	1029.0
15°	1140.4	1137.0	1134.3	1139.7	1135.0	1134.3	1136.3	1137.0	1124.9	1114.1	1097.9
17.5°	1222.8	1222.8	1221.4	1222.8	1220.1	1222.1	1220.7	1222.1	1216.7	1201.8	1178.2
20°	1316.6	1322.0	1322.0	1320.0	1319.3	1323.4	1325.4	1318.0	1319.3	1306.5	1264.0
22.5°	1426.0	1430.1	1431.4	1429.4	1430.1	1435.5	1438.8	1433.4	1445.6	1424.7	1359.2
25°	1538.8	1544.8	1542.1	1542.8	1548.2	1554.3	1560.4	1555.0	1578.6	1546.2	1460.4
27.5°	1650.2	1655.6	1654.2	1658.3	1667.1	1675.2	1681.9	1679.9	1719.0	1676.5	1567.1
30°	1755.5	1768.3	1771.0	1775.8	1786.6	1800.1	1810.9	1810.2	1860.8	1803.4	1654.2
32.5°	1885.1	1899.3	1904.7	1914.8	1935.8	1945.2	1958.7	1960.1	2010.7	1914.8	1727.8
35°	2035.0	2049.2	2060.7	2068.1	2091.7	2103.2	2116.7	2122.8	2156.6	2018.8	1779.1
37.5°	2151.2	2163.3	2185.6	2201.1	2222.1	2245.0	2260.5	2268.0	2286.9	2108.0	1802.8
40°	2278.1	2304.4	2326.0	2349.7	2372.6	2390.9	2405.0	2416.5	2409.1	2182.2	1792.6
42.5°	2438.8	2466.5	2495.5	2515.8	2527.9	2552.2	2559.0	2567.1	2506.3	2216.0	1746.7
45°	2606.2	2628.5	2652.8	2667.7	2683.9	2696.0	2698.1	2698.7	2578.6	2196.4	1663.7
47.5°	2767.6	2786.5	2803.4	2811.5	2819.6	2820.3	2816.9	2811.5	2617.0	2130.2	1563.7
50°	2944.5	2956.0	2963.4	2964.1	2971.5	2957.3	2947.9	2922.9	2613.0	2029.0	1458.4
52.5°	3199.1	3196.4	3186.9	3186.2	3162.6	3135.6	3118.0	3082.3	2585.3	1919.6	1336.9
55°	3783.8	3758.1	3787.8	3712.2	3649.4	3607.6	3508.3	3436.1	2613.0	1817.6	1197.1
57.5°	5188.9	5101.1	5110.5	4988.3	4854.6	4604.1	4456.3	4256.4	2830.4	1760.9	1020.9
60°	6670.9	6526.4	6390.0	6173.3	5889.0	5571.0	5284.7	4972.1	3046.5	1691.4	833.2
62.5°	7282.6	7096.3	6859.3	6553.4	6188.1	5793.8	5398.2	5041.7	2927.6	1482.0	600.2
65°	7085.5	6862.7	6610.1	6211.1	5796.5	5338.1	4904.6	4527.8	2438.1	1083.7	362.6
67.5°	6385.3	6193.5	5882.3	5505.5	4992.4	4532.6	4103.8	3755.4	1797.4	669.8	208.0
70°	5376.6	5111.2	4845.2	4483.3	3942.5	3509.0	3109.9	2802.0	1140.4	330.8	153.3
72.5°	3710.9	3500.9	3288.2	2964.1	2560.3	2261.9	1918.9	1665.7	596.9	178.3	141.1
75°	1445.6	1422.6	1398.3	1251.1	1114.1	892.6	783.9	706.9	248.5	154.6	139.1
77.5°	317.3	336.2	347.0	328.8	313.3	279.5	267.4	239.0	166.1	158.7	137.7
80°	174.9	174.9	174.9	176.9	173.5	173.5	171.5	168.1	155.3	158.7	135.0
82.5°	143.1	145.2	147.9	148.5	147.9	148.5	147.2	146.5	151.9	159.3	128.3
85°	109.4	116.1	120.2	125.6	131.0	134.4	135.7	136.4	139.8	151.2	112.1
87.5°	77.6	83.0	91.8	93.2	99.3	106.7	109.4	113.4	111.4	114.8	52.7
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):**

	145°	155°	165°	175°	180°
0°	937.8	937.8	937.8	937.8	937.8
2.5°	908.1	902.7	900.7	900.0	898.7
5°	902.7	899.4	896.7	894.6	896.0
7.5°	927.0	925.0	920.3	918.9	921.0
10°	970.3	965.5	958.8	959.4	958.8
12.5°	1024.3	1011.4	1000.6	995.9	992.5
15°	1079.6	1054.7	1032.4	1022.2	1018.2
17.5°	1141.1	1098.5	1064.1	1045.9	1042.5
20°	1205.9	1147.2	1102.6	1081.0	1077.6
22.5°	1280.8	1199.8	1143.1	1113.4	1108.7
25°	1353.8	1247.1	1171.5	1135.0	1128.9
27.5°	1419.9	1282.9	1188.3	1145.1	1139.1
30°	1475.3	1311.2	1202.5	1153.2	1146.5
32.5°	1511.8	1326.8	1207.2	1153.9	1145.8
35°	1523.2	1316.6	1187.0	1125.5	1118.8
37.5°	1498.9	1275.4	1133.0	1063.4	1058.0
40°	1443.6	1199.1	1047.9	975.7	968.9
42.5°	1357.1	1102.6	949.3	873.0	866.9
45°	1261.3	999.3	844.7	768.4	762.3
47.5°	1156.6	889.9	734.6	664.4	654.9
50°	1041.8	771.1	622.5	553.7	544.9
52.5°	907.5	641.4	503.7	441.6	436.2
55°	750.1	511.1	401.1	355.8	350.4
57.5°	583.4	388.9	318.7	296.4	287.6
60°	423.3	295.7	253.9	243.1	238.3
62.5°	287.6	220.8	204.6	201.2	197.8
65°	195.1	172.8	168.1	168.8	166.8
67.5°	153.9	145.2	142.5	143.8	143.1
70°	135.0	128.3	127.6	129.0	128.3
72.5°	127.6	118.8	120.2	122.2	121.5
75°	124.2	114.8	117.5	118.8	115.5
77.5°	120.9	108.7	116.8	119.5	112.8
80°	116.1	103.3	122.2	120.9	108.0
82.5°	106.0	91.2	119.5	109.4	97.2
85°	86.4	68.2	134.4	96.6	70.9
87.5°	55.4	41.2	93.2	73.6	47.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)