

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: P146344

Luminaire Tested: **LDRL-T2-F03-E-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146344
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-F03-E-7030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6782.7 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

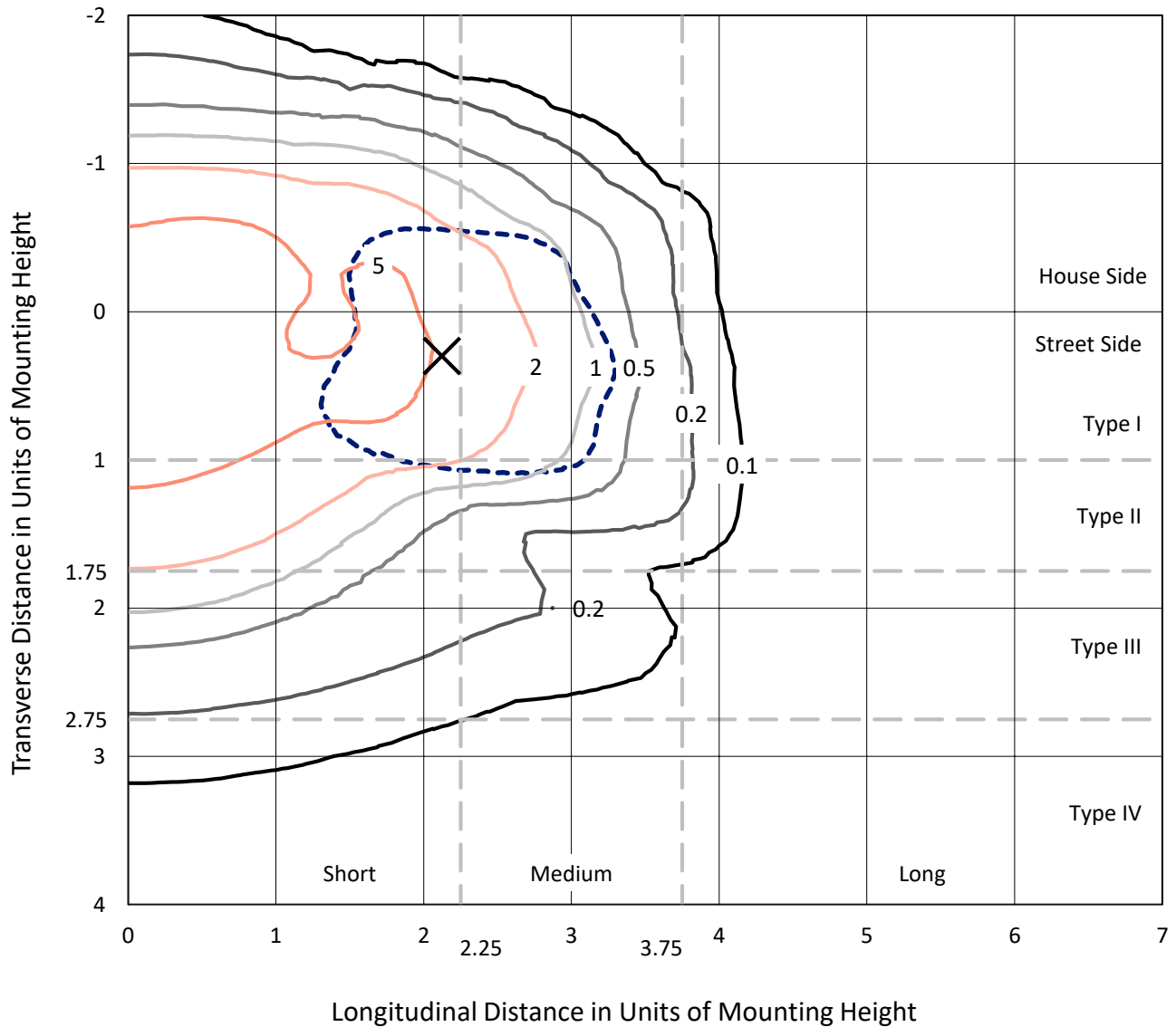
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

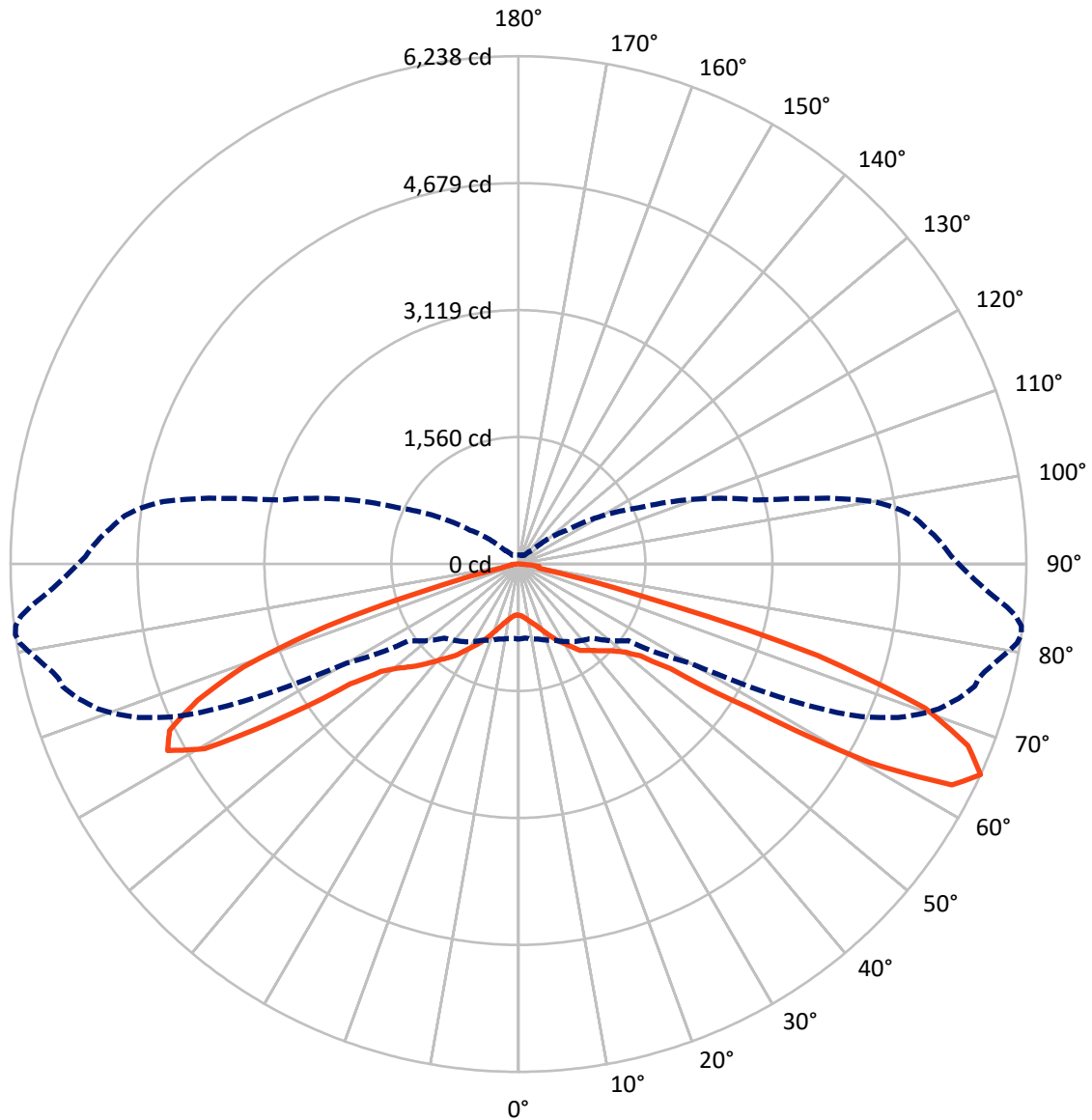
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.1 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	2496.8	0.0	2496.8
	% Fixture	36.8	0.0	36.8
Street Side	Lumens	4285.9	0.0	4285.9
	% Fixture	63.2	0.0	63.2
Total	Lumens	6782.7	0.0	6782.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.8	0.9
10°-20°	224.6	3.3
20°-30°	445.5	6.6
30°-40°	760.2	11.2
40°-50°	1139.9	16.8
50°-60°	1586.7	23.4
60°-70°	1822.9	26.9
70°-80°	629.1	9.3
80°-90°	110.0	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°	6782.7	100.0
0°-180°	6782.7	100.0



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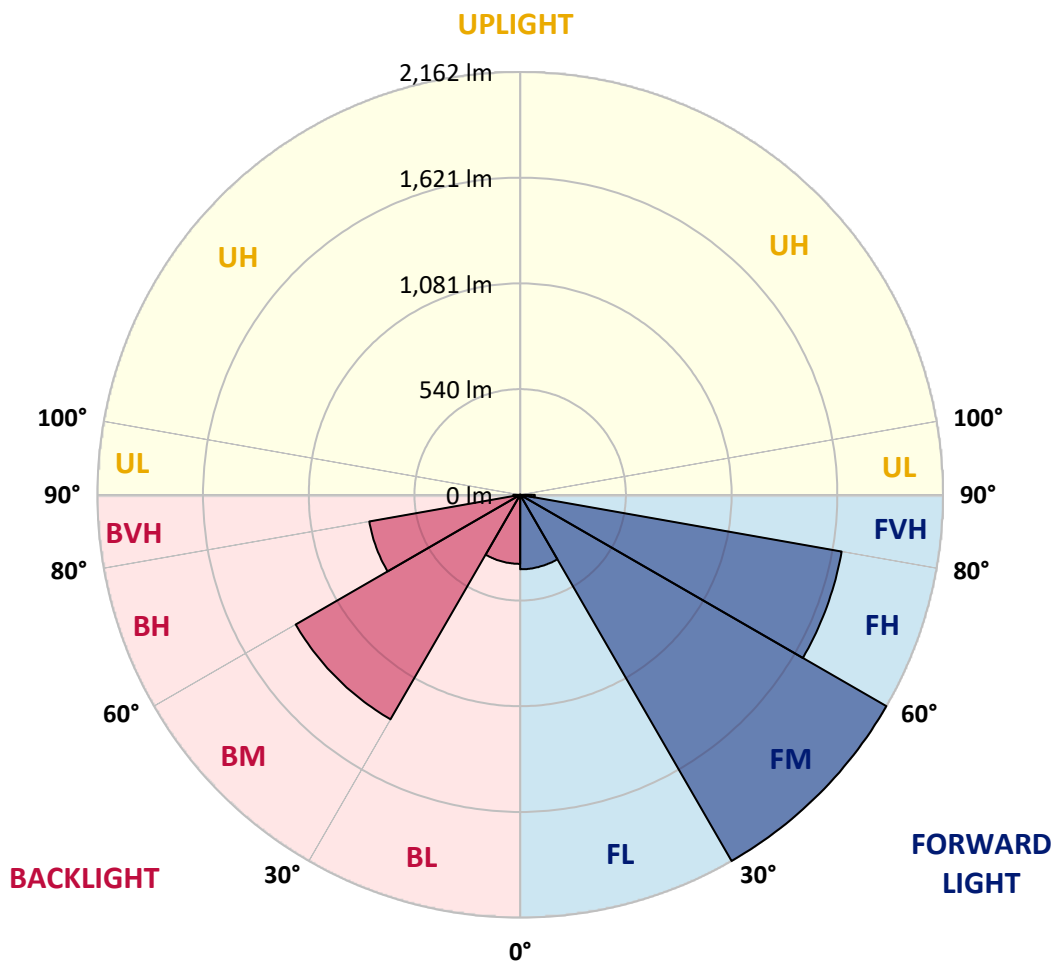
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	380.7	5.6			
FM	(30°-60°)	2161.7	31.9			
FH	(60°-80°)	1668.8	24.6			G1/1800
FVH	(80°-90°)	74.7	1.1			G1/100
BL	(0°-30°)	353.2	5.2	B1/500		
BM	(30°-60°)	1325.1	19.5	B2/2500		
BH	(60°-80°)	783.2	11.5	B2/1000		G2/1000
BVH	(80°-90°)	35.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4
2.5°	663.2	662.8	662.3	660.5	659.6	656.0	652.4	650.1	648.3	649.2	646.5
5°	701.7	701.7	699.9	697.6	694.9	689.9	680.9	676.3	675.4	675.4	672.3
7.5°	741.0	743.7	738.8	737.0	732.4	724.7	714.3	708.5	706.6	706.6	703.9
10°	790.8	789.4	784.0	780.4	771.3	760.9	746.9	740.1	737.4	739.7	735.1
12.5°	843.3	842.8	834.7	827.9	815.2	798.5	779.9	770.9	769.1	769.1	766.4
15°	896.6	897.1	888.1	875.4	855.5	832.9	812.1	803.5	801.2	800.3	797.1
17.5°	937.4	941.9	932.8	916.6	892.1	867.2	845.1	836.5	836.0	835.1	831.5
20°	960.4	961.3	956.4	944.6	922.9	898.9	883.5	879.5	879.0	879.5	880.4
22.5°	959.5	960.9	959.1	954.6	940.5	927.4	925.6	927.9	929.2	927.9	931.0
25°	952.3	954.1	954.1	956.4	952.7	957.3	971.7	978.1	978.5	979.4	986.2
27.5°	968.1	969.9	969.5	973.6	976.7	992.6	1018.8	1030.1	1031.5	1034.6	1041.0
30°	1041.4	1041.9	1033.7	1033.3	1036.4	1049.1	1075.8	1088.9	1087.6	1093.9	1098.0
32.5°	1157.2	1160.8	1152.7	1144.1	1142.8	1144.6	1149.5	1158.6	1157.2	1160.4	1165.8
35°	1289.3	1289.8	1285.3	1290.2	1292.9	1280.7	1257.2	1254.9	1247.7	1249.1	1250.9
37.5°	1410.6	1413.7	1422.3	1454.0	1472.1	1442.2	1396.1	1367.1	1362.6	1360.4	1344.5
40°	1524.1	1540.0	1560.8	1601.9	1626.8	1637.7	1572.1	1513.7	1497.9	1491.5	1466.7
42.5°	1657.1	1665.3	1689.7	1736.7	1769.8	1819.1	1775.2	1711.0	1692.4	1665.3	1634.1
45°	1769.8	1775.2	1790.6	1830.4	1899.6	1981.9	1986.9	1942.1	1927.7	1900.5	1854.8
47.5°	1845.3	1844.9	1856.2	1895.1	1985.1	2110.9	2185.5	2183.7	2167.0	2157.5	2118.6
50°	1874.7	1874.3	1881.5	1924.9	2023.1	2187.8	2352.5	2409.0	2408.6	2412.2	2392.3
52.5°	1880.2	1879.7	1880.6	1915.4	2015.4	2214.5	2472.8	2606.3	2625.7	2650.1	2672.3
55°	1839.4	1844.0	1853.9	1890.6	1986.5	2203.6	2561.9	2791.3	2837.9	2887.6	2968.2
57.5°	1745.3	1753.9	1788.3	1853.9	1955.7	2176.9	2623.9	3020.2	3114.7	3235.1	3453.1
60°	1610.5	1618.2	1665.7	1752.6	1866.1	2060.7	2552.0	3116.1	3295.7	3504.7	3951.7
62.5°	1372.1	1393.8	1419.2	1480.7	1599.7	1756.2	2229.0	2954.1	3232.4	3539.1	4154.4
65°	921.5	912.5	954.6	1032.8	1163.6	1285.3	1642.2	2436.6	2788.6	3210.7	3972.0
67.5°	570.5	571.8	600.3	676.8	775.4	870.0	1041.0	1553.1	1865.2	2266.5	3182.2
70°	471.4	476.8	499.9	570.9	655.1	761.8	772.7	823.4	963.2	1157.2	1965.7
72.5°	374.1	376.4	399.9	459.2	578.2	724.7	917.5	625.7	614.8	644.2	997.1
75°	232.1	233.9	245.7	283.7	375.0	564.6	1010.2	719.3	674.1	636.1	642.4
77.5°	119.9	123.5	129.8	147.0	196.8	315.3	795.3	912.0	860.5	808.9	708.0
80°	67.9	67.9	73.7	77.8	93.2	128.5	404.4	987.1	1078.5	1100.7	988.5
82.5°	30.3	33.9	45.7	48.9	53.4	58.8	133.9	593.1	822.9	1027.8	1270.3
85°	18.1	17.6	29.0	31.7	33.0	28.0	50.2	242.0	384.5	562.8	841.9
87.5°	7.2	7.7	12.2	13.1	15.4	11.3	19.0	52.0	76.5	110.8	156.5
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°	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4
2.5°	646.0	646.0	645.6	645.1	644.7	643.3	642.9	642.0	641.5	640.1	639.7
5°	671.8	670.5	670.0	669.1	668.6	666.8	666.8	665.0	663.7	661.9	661.4
7.5°	702.6	700.8	699.4	698.5	698.0	694.9	694.9	692.2	691.7	689.5	688.5
10°	733.8	732.4	730.6	729.7	729.3	727.5	725.6	723.8	722.5	721.1	719.3
12.5°	765.0	762.3	761.4	760.0	759.1	757.8	757.3	753.2	753.2	751.9	750.1
15°	795.3	794.9	791.7	791.2	790.3	790.8	788.1	788.5	787.2	784.9	784.0
17.5°	832.4	829.2	830.6	828.3	828.8	827.9	827.0	826.5	827.4	827.0	827.9
20°	878.6	877.6	879.0	875.8	879.0	879.5	878.6	880.8	879.9	880.8	878.1
22.5°	933.3	930.1	930.1	932.4	933.7	937.8	935.6	937.4	939.2	940.5	938.7
25°	988.5	987.6	989.4	991.2	993.9	997.5	996.6	997.1	1000.7	1003.0	1003.4
27.5°	1044.6	1044.6	1050.0	1050.0	1053.6	1057.7	1059.1	1060.9	1063.6	1066.7	1066.7
30°	1102.5	1102.5	1107.5	1112.0	1113.8	1118.8	1121.5	1124.2	1129.2	1130.1	1134.2
32.5°	1168.5	1169.9	1174.9	1177.6	1181.7	1187.5	1188.4	1191.6	1197.5	1199.3	1202.5
35°	1254.5	1250.0	1254.5	1259.5	1261.7	1259.9	1269.9	1273.9	1278.0	1280.3	1284.4
37.5°	1343.2	1335.5	1335.9	1335.0	1329.6	1332.8	1332.8	1331.9	1334.6	1334.1	1335.9
40°	1455.4	1441.8	1437.7	1429.1	1417.4	1411.0	1404.2	1403.3	1396.5	1399.3	1394.3
42.5°	1609.2	1588.8	1578.0	1551.3	1536.8	1519.6	1502.9	1488.4	1480.7	1472.1	1465.8
45°	1820.4	1796.5	1770.2	1727.2	1702.4	1668.0	1645.8	1612.8	1590.6	1572.1	1559.0
47.5°	2085.5	2045.3	2024.0	1983.8	1940.3	1888.3	1840.8	1794.7	1757.1	1716.4	1684.3
50°	2393.6	2343.4	2326.7	2273.3	2248.9	2190.5	2139.8	2082.8	2024.0	1962.5	1903.7
52.5°	2666.4	2660.5	2667.3	2631.6	2630.7	2601.3	2545.2	2478.7	2423.9	2362.0	2284.6
55°	2993.5	3051.9	3064.5	3059.6	3086.2	3085.3	3079.9	3073.1	3029.7	2941.9	2915.2
57.5°	3570.8	3636.4	3733.2	3777.1	3873.9	3885.2	3974.8	3939.9	4006.4	3988.3	4000.5
60°	4158.4	4359.7	4543.4	4683.2	4818.9	4942.4	5093.5	5158.2	5206.6	5282.2	5361.8
62.5°	4421.3	4675.1	4894.0	5093.1	5261.8	5418.3	5548.2	5671.2	5768.1	5854.9	5921.9
65°	4315.0	4609.5	4823.0	5030.6	5188.1	5333.7	5462.7	5555.0	5651.3	5730.0	5801.1
67.5°	3592.5	3984.7	4263.4	4499.1	4696.8	4862.8	4996.7	5123.8	5192.1	5278.1	5316.6
70°	2379.6	2882.7	3276.7	3595.2	3908.7	4096.9	4255.7	4403.6	4481.4	4551.1	4594.1
72.5°	1307.0	1650.8	2071.5	2450.2	2751.5	2998.5	3183.5	3323.8	3403.8	3463.5	3401.6
75°	740.6	910.2	1116.1	1325.5	1554.0	1728.2	1777.0	1836.7	1850.8	1820.0	1740.4
77.5°	680.9	680.9	681.3	676.3	686.3	698.5	691.3	679.0	623.9	611.6	594.4
80°	885.3	789.0	685.8	563.2	459.2	387.3	365.1	366.9	384.5	418.9	456.9
82.5°	1254.9	1159.9	1011.1	824.3	656.0	514.8	422.1	379.6	379.1	413.5	462.8
85°	915.2	922.9	889.9	787.2	627.9	494.5	399.5	306.7	276.9	276.9	273.2
87.5°	160.1	165.1	142.5	127.6	89.1	62.9	56.5	49.8	49.3	51.1	47.0
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°	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4
2.5°	639.7	638.8	637.9	637.4	637.4	636.5	636.5	635.6	636.1	635.6	634.3
5°	660.5	660.0	658.7	656.4	656.0	654.2	654.6	652.8	652.8	651.9	649.6
7.5°	686.7	685.8	684.9	683.1	681.3	681.3	678.1	678.1	675.9	675.0	673.2
10°	718.0	715.2	713.9	712.1	711.6	711.2	708.0	708.0	705.3	704.8	703.5
12.5°	748.7	746.9	745.5	744.6	742.4	741.9	740.6	739.2	737.9	737.0	736.5
15°	782.2	781.3	779.9	779.9	779.9	777.7	776.3	775.4	775.4	774.0	775.0
17.5°	825.6	827.0	825.2	824.3	822.9	825.2	822.9	822.9	824.3	824.3	821.1
20°	879.5	881.3	879.5	879.9	879.0	879.5	879.9	880.8	882.6	879.5	879.9
22.5°	939.2	939.6	941.0	939.6	941.9	940.5	943.2	945.5	945.1	944.2	944.6
25°	1004.3	1003.0	1003.4	1007.5	1010.7	1009.7	1010.2	1013.8	1012.9	1012.0	1012.5
27.5°	1070.4	1069.5	1070.8	1074.4	1078.1	1077.6	1076.7	1079.4	1079.4	1077.2	1078.1
30°	1136.0	1137.3	1139.6	1139.6	1141.4	1143.2	1141.8	1145.0	1145.5	1143.7	1145.9
32.5°	1205.2	1207.9	1207.0	1213.3	1213.3	1213.8	1215.1	1214.7	1219.2	1215.6	1216.9
35°	1288.4	1289.3	1294.8	1299.3	1302.0	1304.3	1304.3	1305.6	1307.9	1306.1	1308.8
37.5°	1339.1	1340.9	1342.7	1345.4	1345.4	1345.4	1347.7	1348.1	1349.5	1349.0	1349.9
40°	1394.7	1395.2	1395.6	1396.1	1397.9	1398.8	1396.5	1399.7	1397.5	1398.4	1399.7
42.5°	1462.1	1455.8	1456.7	1455.4	1458.5	1454.5	1455.4	1459.0	1457.2	1459.9	1459.9
45°	1540.4	1533.2	1526.8	1523.2	1523.2	1517.8	1518.7	1520.1	1522.3	1525.9	1532.3
47.5°	1656.2	1631.3	1619.1	1606.5	1600.1	1593.3	1595.6	1596.1	1597.0	1602.8	1618.7
50°	1845.8	1804.2	1772.0	1733.6	1719.1	1707.3	1700.6	1701.0	1701.0	1713.2	1729.1
52.5°	2212.2	2134.9	2058.4	1991.4	1934.0	1906.4	1874.3	1866.1	1866.6	1877.0	1887.8
55°	2845.1	2738.8	2657.8	2509.0	2463.7	2336.6	2269.7	2231.2	2201.4	2215.8	2231.7
57.5°	3980.6	3882.5	3818.2	3640.4	3478.5	3432.3	3322.4	3233.3	3196.6	3154.1	3156.8
60°	5373.6	5322.9	5306.6	5202.6	5144.2	4962.8	4948.3	4835.7	4729.3	4637.5	4675.1
62.5°	5973.4	5997.0	6016.0	6052.6	6066.6	6049.4	5976.6	5926.8	5839.5	5719.2	5645.5
65°	5821.9	5875.7	5956.7	6033.2	6124.5	6200.5	6238.1	6223.6	6144.9	6020.9	5866.2
67.5°	5344.2	5398.9	5468.6	5565.4	5705.2	5853.1	5956.2	6021.8	5959.4	5847.7	5690.2
70°	4591.8	4645.2	4647.5	4782.7	4933.4	5119.8	5302.5	5371.3	5300.3	5225.6	5094.0
72.5°	3439.1	3407.0	3436.9	3461.7	3547.7	3665.3	3842.7	3835.0	3726.4	3668.5	3466.3
75°	1616.4	1594.7	1563.0	1542.2	1522.3	1480.7	1500.6	1415.5	1386.1	1397.9	1223.3
77.5°	581.3	551.5	503.5	456.9	398.1	329.8	278.2	244.3	227.6	228.0	217.6
80°	487.7	502.2	495.4	449.2	383.2	311.7	233.4	176.9	151.1	140.2	133.5
82.5°	528.9	601.7	637.9	609.4	514.8	396.3	255.2	154.3	113.1	96.8	92.7
85°	293.2	293.6	284.6	271.9	241.1	165.6	110.4	73.3	58.8	52.5	50.7
87.5°	49.8	47.5	47.5	44.3	38.9	38.0	33.9	32.1	28.5	26.2	25.3
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-F03-E-7030

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4
2.5°	632.9	632.0	631.5	631.1	631.1	630.6	630.6	629.7	628.8	628.4	627.9
5°	647.4	646.5	645.6	644.7	644.7	643.8	642.9	642.0	640.6	638.3	637.9
7.5°	671.8	670.0	670.0	666.8	666.8	665.0	663.7	663.7	661.9	658.2	657.8
10°	702.1	699.0	697.6	695.8	694.9	693.1	693.1	691.3	690.4	689.0	684.5
12.5°	734.7	732.4	731.5	729.3	727.9	727.9	727.0	723.8	726.1	722.9	720.7
15°	774.0	773.6	769.5	770.9	770.4	770.0	770.4	767.7	767.3	767.3	764.5
17.5°	823.4	819.7	820.2	820.2	821.1	821.1	817.5	819.3	819.7	818.8	817.9
20°	881.3	879.9	881.3	878.6	881.3	881.3	883.1	882.6	883.1	884.0	884.0
22.5°	943.2	946.9	947.3	948.2	945.1	950.5	950.5	951.4	953.7	953.7	954.6
25°	1018.3	1016.5	1014.3	1017.4	1018.3	1022.0	1022.9	1022.9	1026.5	1026.5	1027.8
27.5°	1080.8	1082.6	1082.1	1083.9	1083.0	1088.0	1089.8	1095.3	1093.9	1096.6	1100.2
30°	1145.0	1148.6	1146.8	1147.3	1149.5	1152.7	1156.3	1161.8	1162.7	1169.9	1171.7
32.5°	1219.2	1221.9	1224.2	1225.1	1225.1	1230.5	1236.4	1238.2	1247.7	1253.1	1259.5
35°	1313.3	1313.8	1315.1	1316.5	1315.6	1321.4	1327.3	1329.1	1339.1	1340.4	1353.6
37.5°	1353.1	1354.0	1359.5	1362.2	1364.0	1371.2	1382.1	1390.2	1401.1	1411.5	1426.4
40°	1402.9	1408.3	1413.3	1417.4	1424.1	1434.1	1450.8	1459.0	1475.3	1494.7	1509.2
42.5°	1465.8	1475.7	1479.3	1487.0	1503.8	1516.0	1532.7	1550.4	1572.1	1595.6	1612.8
45°	1540.4	1549.9	1563.5	1572.1	1591.5	1611.0	1637.7	1653.1	1675.2	1702.4	1721.4
47.5°	1630.9	1644.0	1657.6	1675.2	1698.3	1718.7	1745.3	1765.2	1787.4	1809.6	1830.4
50°	1743.5	1763.0	1781.1	1799.6	1830.4	1847.6	1873.8	1894.6	1915.4	1937.6	1956.6
52.5°	1895.1	1924.5	1947.6	1960.2	2001.9	2019.0	2051.2	2065.6	2082.8	2102.7	2127.2
55°	2225.8	2271.5	2310.4	2333.0	2396.3	2419.0	2460.6	2481.8	2470.1	2495.4	2539.3
57.5°	3182.2	3238.3	3284.8	3315.6	3380.3	3412.0	3414.2	3493.9	3446.8	3493.4	3500.2
60°	4575.1	4619.4	4608.1	4608.6	4588.2	4558.8	4615.3	4529.4	4565.6	4567.8	4486.9
62.5°	5509.3	5441.4	5409.8	5357.3	5296.2	5249.2	5217.0	5147.8	5092.6	5048.7	4963.2
65°	5729.1	5611.5	5507.5	5409.3	5319.3	5256.8	5189.0	5114.8	5028.4	4955.5	4872.3
67.5°	5516.5	5351.8	5197.6	5068.2	4945.1	4862.8	4764.6	4694.1	4585.5	4489.6	4426.2
70°	4899.9	4671.9	4491.8	4409.1	4286.9	4110.0	4016.4	3928.2	3861.7	3774.8	3736.3
72.5°	3437.3	3155.9	3017.0	3022.5	2898.5	2771.8	2775.0	2721.2	2635.2	2632.5	2619.4
75°	1263.1	1149.1	1069.0	1072.6	1026.5	977.2	990.7	1005.2	977.2	1034.2	946.0
77.5°	200.9	195.4	193.6	189.6	179.6	186.8	181.9	191.4	192.7	203.1	204.0
80°	128.0	122.6	121.2	119.0	118.5	118.5	117.6	117.6	117.6	118.1	117.2
82.5°	85.5	82.3	81.9	80.5	82.8	83.2	83.7	87.3	90.5	91.4	95.0
85°	46.6	44.3	44.3	43.4	45.2	45.7	49.8	54.7	61.1	63.8	69.7
87.5°	23.5	24.9	24.4	25.3	26.7	29.9	33.0	36.2	39.8	44.8	48.9
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°	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4	628.4
2.5°	627.0	626.6	626.6	625.7	625.7	625.2	624.3	623.4	619.3	614.4	611.2
5°	636.5	635.6	635.2	634.3	632.9	632.9	631.5	629.7	622.0	613.9	608.9
7.5°	656.0	655.5	654.2	652.4	650.5	648.7	647.8	646.9	635.2	627.5	623.9
10°	684.0	683.6	680.4	680.0	677.2	677.7	675.4	673.6	665.9	657.3	652.4
12.5°	719.8	721.6	719.8	715.7	716.6	715.2	713.0	710.7	703.9	697.1	689.5
15°	764.1	761.8	760.0	763.6	760.5	760.0	761.4	761.8	753.7	746.5	735.6
17.5°	819.3	819.3	818.4	819.3	817.5	818.8	817.9	818.8	815.2	805.3	789.4
20°	882.2	885.8	885.8	884.4	884.0	886.7	888.1	883.1	884.0	875.4	846.9
22.5°	955.5	958.2	959.1	957.7	958.2	961.8	964.1	960.4	968.6	954.6	910.7
25°	1031.0	1035.1	1033.3	1033.7	1037.3	1041.4	1045.5	1041.9	1057.7	1036.0	978.5
27.5°	1105.7	1109.3	1108.4	1111.1	1117.0	1122.4	1126.9	1125.6	1151.8	1123.3	1050.0
30°	1176.2	1184.8	1186.6	1189.8	1197.0	1206.1	1213.3	1212.9	1246.8	1208.3	1108.4
32.5°	1263.1	1272.6	1276.2	1283.0	1297.0	1303.4	1312.4	1313.3	1347.2	1283.0	1157.7
35°	1363.5	1373.0	1380.7	1385.7	1401.5	1409.2	1418.3	1422.3	1445.0	1352.7	1192.1
37.5°	1441.3	1449.5	1464.4	1474.8	1488.8	1504.2	1514.6	1519.6	1532.3	1412.4	1207.9
40°	1526.4	1544.0	1558.5	1574.3	1589.7	1601.9	1611.4	1619.1	1614.1	1462.1	1201.1
42.5°	1634.1	1652.6	1672.1	1685.6	1693.8	1710.1	1714.6	1720.0	1679.3	1484.8	1170.3
45°	1746.2	1761.2	1777.5	1787.4	1798.3	1806.4	1807.8	1808.2	1727.7	1471.6	1114.7
47.5°	1854.4	1867.0	1878.3	1883.8	1889.2	1889.7	1887.4	1883.8	1753.5	1427.3	1047.7
50°	1972.9	1980.6	1985.6	1986.0	1991.0	1981.5	1975.2	1958.4	1750.8	1359.5	977.2
52.5°	2143.5	2141.6	2135.3	2134.9	2119.0	2100.9	2089.2	2065.2	1732.2	1286.2	895.7
55°	2535.2	2518.0	2537.9	2487.3	2445.2	2417.2	2350.7	2302.2	1750.8	1217.9	802.1
57.5°	3476.7	3417.9	3424.2	3342.3	3252.7	3084.9	2985.8	2851.9	1896.4	1179.8	684.0
60°	4469.7	4372.9	4281.5	4136.3	3945.8	3732.7	3540.9	3331.4	2041.2	1133.3	558.3
62.5°	4879.5	4754.7	4595.9	4391.0	4146.2	3882.0	3616.9	3378.0	1961.6	993.0	402.2
65°	4747.4	4598.2	4429.0	4161.6	3883.8	3576.6	3286.2	3033.8	1633.6	726.1	242.9
67.5°	4278.3	4149.8	3941.3	3688.8	3345.0	3036.9	2749.7	2516.2	1204.3	448.8	139.3
70°	3602.4	3424.6	3246.4	3003.9	2641.5	2351.1	2083.7	1877.4	764.1	221.7	102.7
72.5°	2486.4	2345.7	2203.2	1986.0	1715.5	1515.5	1285.7	1116.1	399.9	119.4	94.6
75°	968.6	953.2	936.9	838.3	746.5	598.1	525.2	473.7	166.5	103.6	93.2
77.5°	212.6	225.3	232.5	220.3	209.9	187.3	179.1	160.1	111.3	106.3	92.3
80°	117.2	117.2	117.2	118.5	116.3	116.3	114.9	112.6	104.1	106.3	90.5
82.5°	95.9	97.3	99.1	99.5	99.1	99.5	98.6	98.2	101.8	106.8	86.0
85°	73.3	77.8	80.5	84.1	87.8	90.0	90.9	91.4	93.6	101.3	75.1
87.5°	52.0	55.6	61.5	62.4	66.5	71.5	73.3	76.0	74.6	76.9	35.3
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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CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	628.4	628.4	628.4	628.4	628.4
2.5°	608.5	604.9	603.5	603.0	602.1
5°	604.9	602.6	600.8	599.4	600.3
7.5°	621.1	619.8	616.6	615.7	617.1
10°	650.1	646.9	642.4	642.9	642.4
12.5°	686.3	677.7	670.5	667.3	665.0
15°	723.4	706.6	691.7	684.9	682.2
17.5°	764.5	736.0	713.0	700.8	698.5
20°	808.0	768.6	738.8	724.3	722.0
22.5°	858.2	803.9	765.9	746.0	742.8
25°	907.1	835.6	784.9	760.5	756.4
27.5°	951.4	859.6	796.2	767.3	763.2
30°	988.5	878.6	805.7	772.7	768.2
32.5°	1012.9	889.0	808.9	773.1	767.7
35°	1020.6	882.2	795.3	754.1	749.6
37.5°	1004.3	854.6	759.1	712.5	708.9
40°	967.2	803.5	702.1	653.7	649.2
42.5°	909.3	738.8	636.1	584.9	580.9
45°	845.1	669.5	565.9	514.8	510.8
47.5°	775.0	596.3	492.2	445.2	438.8
50°	698.0	516.6	417.1	371.0	365.1
52.5°	608.0	429.8	337.5	295.9	292.2
55°	502.6	342.5	268.7	238.4	234.8
57.5°	390.9	260.6	213.5	198.6	192.7
60°	283.7	198.1	170.1	162.9	159.7
62.5°	192.7	147.9	137.1	134.8	132.6
65°	130.7	115.8	112.6	113.1	111.7
67.5°	103.1	97.3	95.5	96.4	95.9
70°	90.5	86.0	85.5	86.4	86.0
72.5°	85.5	79.6	80.5	81.9	81.4
75°	83.2	76.9	78.7	79.6	77.4
77.5°	81.0	72.8	78.3	80.1	75.6
80°	77.8	69.2	81.9	81.0	72.4
82.5°	71.0	61.1	80.1	73.3	65.1
85°	57.9	45.7	90.0	64.7	47.5
87.5°	37.1	27.6	62.4	49.3	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)