

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: P146339

Luminaire Tested: **LDRL-T2-E03-E-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146339
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-E03-E-7030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (63) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8216.2 lumens
Efficiency: N/A
Efficacy: 109.3 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

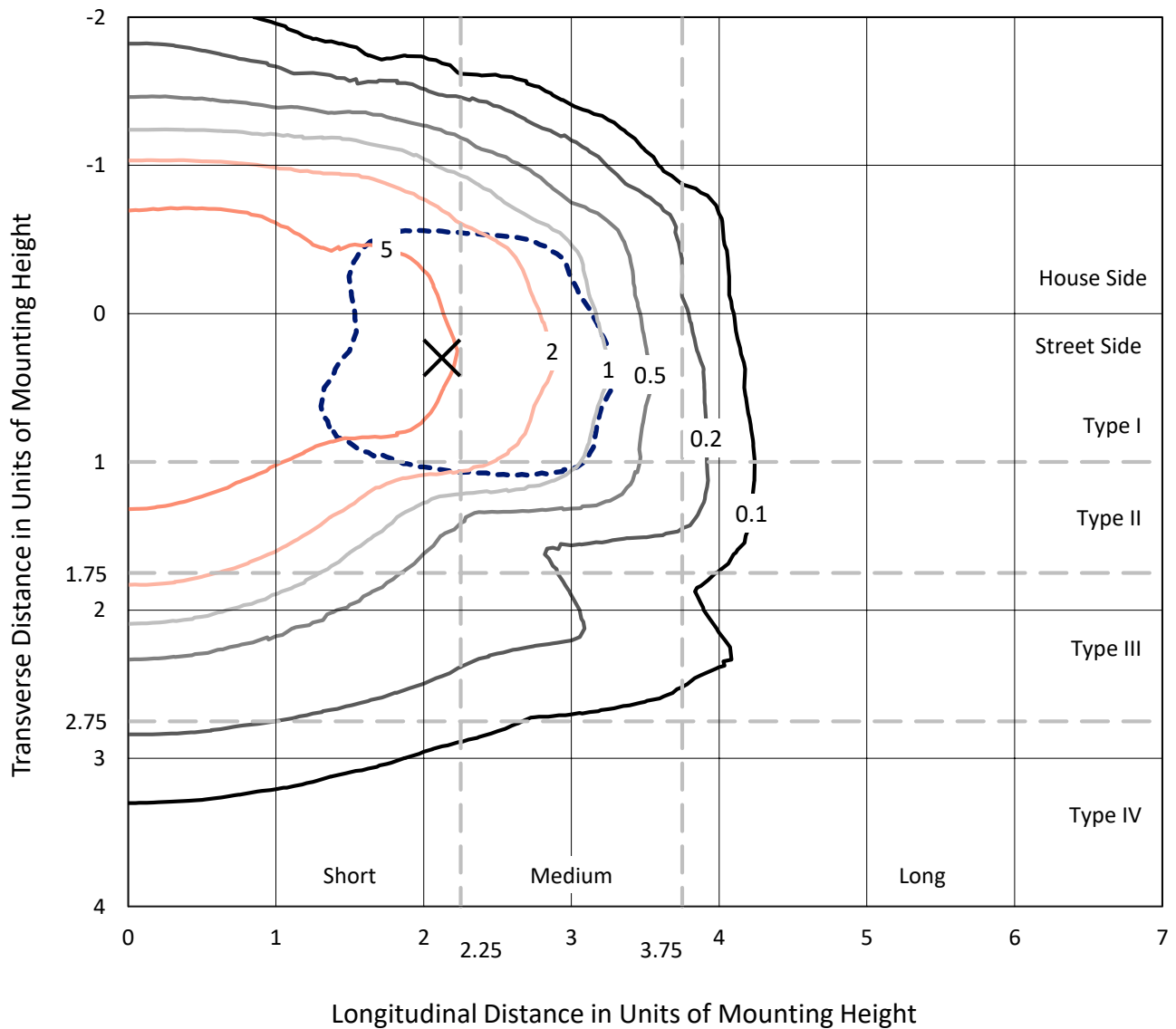
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

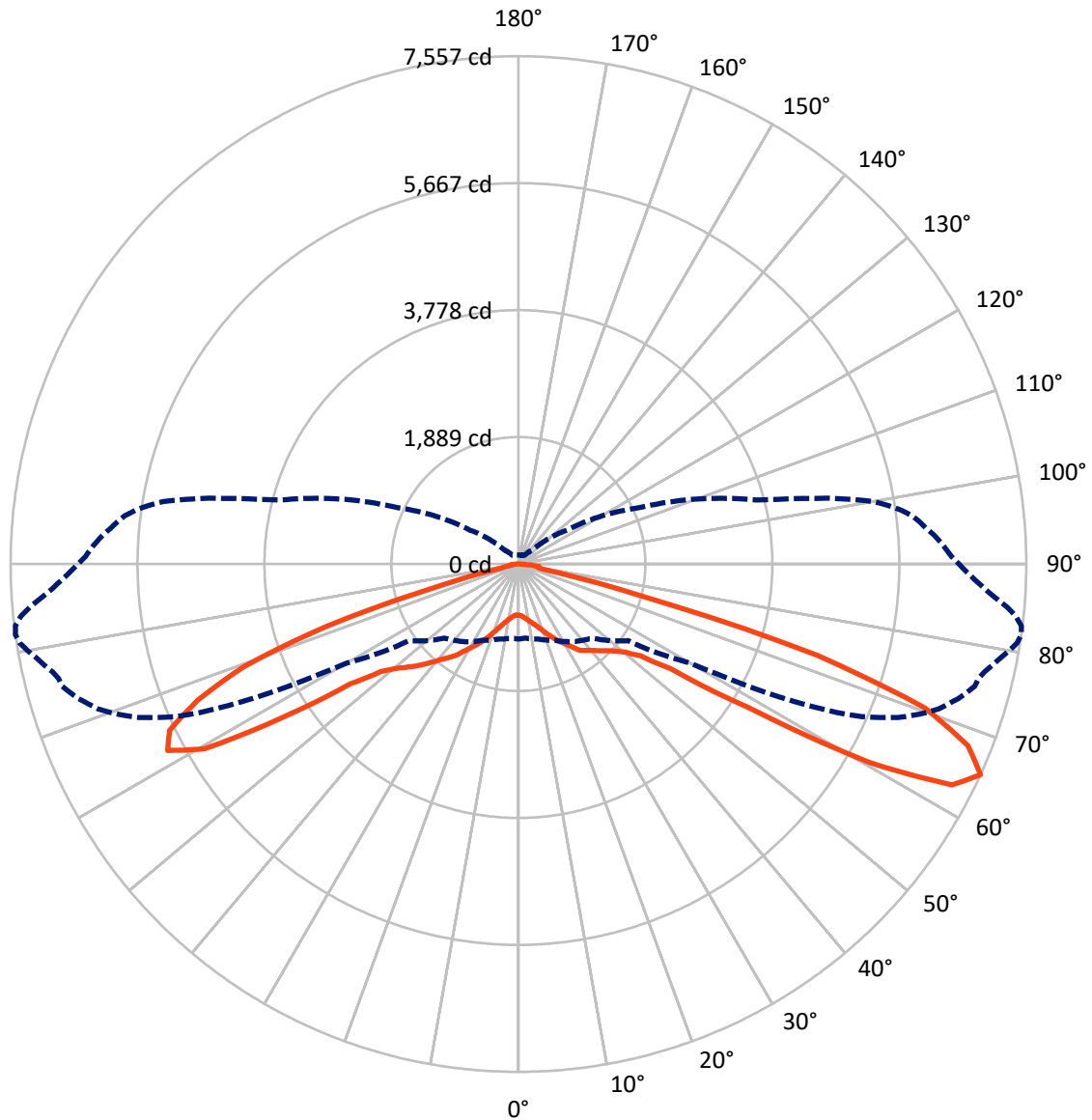
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.8 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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CATALOG NUMBER: LDRL-T2-E03-E-7030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3024.5	0.0	3024.5
	% Fixture	36.8	0.0	36.8
Street Side	Lumens	5191.8	0.0	5191.8
	% Fixture	63.2	0.0	63.2
Total	Lumens	8216.2	0.0	8216.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	0.9
10°-20°	272.1	3.3
20°-30°	539.7	6.6
30°-40°	920.9	11.2
40°-50°	1380.9	16.8
50°-60°	1922.0	23.4
60°-70°	2208.2	26.9
70°-80°	762.0	9.3
80°-90°	133.3	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°	8216.2	100.0
0°-180°	8216.2	100.0



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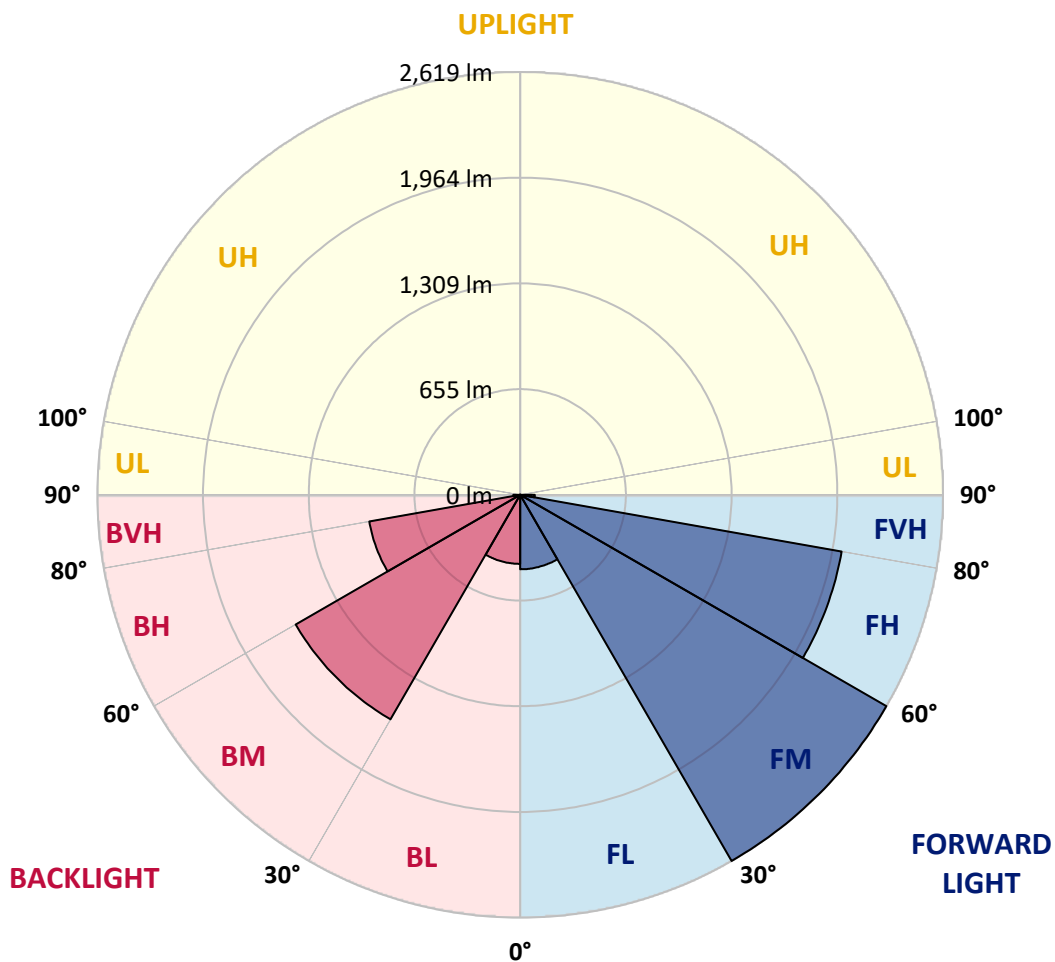
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	461.2	5.6			
FM	(30°-60°)	2618.6	31.9			
FH	(60°-80°)	2021.5	24.6			G2/5000
FVH	(80°-90°)	90.5	1.1			G1/100
BL	(0°-30°)	427.8	5.2	B1/500		
BM	(30°-60°)	1605.2	19.5	B2/2500		
BH	(60°-80°)	948.7	11.5	B2/1000		G2/1000
BVH	(80°-90°)	42.8	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°	761.2	761.2	761.2	761.2	761.2	761.2	761.2	761.2	761.2	761.2	761.2
2.5°	803.4	802.8	802.3	800.1	799.0	794.6	790.2	787.5	785.3	786.4	783.1
5°	850.0	850.0	847.8	845.0	841.7	835.7	824.8	819.3	818.2	818.2	814.3
7.5°	897.6	900.9	894.9	892.7	887.2	877.9	865.3	858.2	856.0	856.0	852.7
10°	957.9	956.3	949.7	945.3	934.4	921.8	904.8	896.5	893.3	896.0	890.5
12.5°	1021.5	1020.9	1011.1	1002.9	987.5	967.2	944.8	933.8	931.6	931.6	928.3
15°	1086.2	1086.7	1075.7	1060.4	1036.3	1008.9	983.7	973.3	970.5	969.4	965.6
17.5°	1135.5	1141.0	1130.0	1110.3	1080.7	1050.5	1023.7	1013.3	1012.7	1011.6	1007.2
20°	1163.4	1164.5	1158.5	1144.2	1117.9	1088.9	1070.3	1065.3	1064.8	1065.3	1066.4
22.5°	1162.3	1164.0	1161.8	1156.3	1139.3	1123.4	1121.2	1124.0	1125.6	1124.0	1127.8
25°	1153.6	1155.8	1155.8	1158.5	1154.1	1159.6	1177.1	1184.8	1185.3	1186.4	1194.7
27.5°	1172.7	1174.9	1174.4	1179.3	1183.2	1202.3	1234.1	1247.8	1249.5	1253.3	1261.0
30°	1261.5	1262.1	1252.2	1251.7	1255.5	1270.8	1303.2	1319.1	1317.4	1325.1	1330.0
32.5°	1401.8	1406.2	1396.3	1385.9	1384.3	1386.5	1392.5	1403.5	1401.8	1405.6	1412.2
35°	1561.8	1562.4	1556.9	1562.9	1566.2	1551.4	1522.9	1520.2	1511.4	1513.1	1515.2
37.5°	1708.7	1712.5	1722.9	1761.3	1783.2	1747.1	1691.2	1656.1	1650.6	1647.9	1628.7
40°	1846.2	1865.4	1890.6	1940.5	1970.6	1983.8	1904.3	1833.6	1814.5	1806.8	1776.6
42.5°	2007.4	2017.2	2046.8	2103.8	2143.8	2203.5	2150.4	2072.6	2050.1	2017.2	1979.4
45°	2143.8	2150.4	2169.0	2217.2	2301.1	2400.8	2406.9	2352.6	2335.1	2302.2	2246.8
47.5°	2235.3	2234.8	2248.5	2295.6	2404.7	2557.0	2647.4	2645.2	2625.0	2613.5	2566.3
50°	2271.0	2270.4	2279.2	2331.8	2450.7	2650.2	2849.7	2918.2	2917.6	2922.0	2897.9
52.5°	2277.5	2277.0	2278.1	2320.3	2441.4	2682.5	2995.4	3157.1	3180.7	3210.2	3237.1
55°	2228.2	2233.7	2245.7	2290.1	2406.3	2669.4	3103.4	3381.2	3437.7	3497.9	3595.5
57.5°	2114.2	2124.6	2166.3	2245.7	2369.0	2637.0	3178.5	3658.5	3773.1	3918.8	4183.0
60°	1950.9	1960.2	2017.8	2123.0	2260.5	2496.2	3091.3	3774.7	3992.3	4245.4	4786.9
62.5°	1662.1	1688.4	1719.1	1793.6	1937.8	2127.4	2700.0	3578.5	3915.5	4287.1	5032.4
65°	1116.3	1105.3	1156.3	1251.1	1409.5	1556.9	1989.3	2951.6	3377.9	3889.2	4811.5
67.5°	691.0	692.7	727.2	819.8	939.3	1053.8	1261.0	1881.3	2259.4	2745.5	3854.7
70°	571.0	577.6	605.6	691.6	793.5	922.8	936.0	997.4	1166.7	1401.8	2381.1
72.5°	453.2	455.9	484.4	556.2	700.4	877.9	1111.4	757.9	744.7	780.4	1207.8
75°	281.1	283.3	297.6	343.6	454.3	683.9	1223.7	871.3	816.5	770.5	778.2
77.5°	145.2	149.6	157.3	178.1	238.4	382.0	963.4	1104.8	1042.3	979.8	857.6
80°	82.2	82.2	89.3	94.3	112.9	155.6	489.9	1195.8	1306.5	1333.3	1197.4
82.5°	36.7	41.1	55.3	59.2	64.7	71.2	162.2	718.4	996.8	1245.1	1538.8
85°	21.9	21.4	35.1	38.4	40.0	34.0	60.8	293.2	465.8	681.7	1019.8
87.5°	8.8	9.3	14.8	15.9	18.6	13.7	23.0	63.0	92.6	134.3	189.6
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°	761.2	761.2	761.2	761.2	761.2	761.2	761.2	761.2	761.2	761.2	761.2
2.5°	782.6	782.6	782.0	781.5	780.9	779.3	778.7	777.6	777.1	775.4	774.9
5°	813.8	812.2	811.6	810.5	810.0	807.8	807.8	805.6	803.9	801.7	801.2
7.5°	851.1	848.9	847.2	846.1	845.6	841.7	841.7	838.5	837.9	835.2	834.1
10°	888.9	887.2	885.0	883.9	883.4	881.2	879.0	876.8	875.2	873.5	871.3
12.5°	926.7	923.4	922.3	920.7	919.6	917.9	917.4	912.4	912.4	910.8	908.6
15°	963.4	962.9	959.0	958.5	957.4	957.9	954.6	955.2	953.5	950.8	949.7
17.5°	1008.3	1004.5	1006.1	1003.4	1004.0	1002.9	1001.8	1001.2	1002.3	1001.8	1002.9
20°	1064.2	1063.1	1064.8	1060.9	1064.8	1065.3	1064.2	1067.0	1065.9	1067.0	1063.7
22.5°	1130.5	1126.7	1126.7	1129.4	1131.1	1136.0	1133.3	1135.5	1137.7	1139.3	1137.1
25°	1197.4	1196.3	1198.5	1200.7	1204.0	1208.4	1207.3	1207.8	1212.2	1214.9	1215.5
27.5°	1265.4	1265.4	1271.9	1271.9	1276.3	1281.2	1282.9	1285.1	1288.4	1292.2	1292.2
30°	1335.5	1335.5	1341.5	1347.0	1349.2	1355.2	1358.5	1361.8	1367.8	1368.9	1373.9
32.5°	1415.5	1417.2	1423.2	1426.5	1431.4	1438.5	1439.6	1443.5	1450.6	1452.8	1456.6
35°	1519.6	1514.2	1519.6	1525.7	1528.4	1526.2	1538.3	1543.2	1548.1	1550.9	1555.8
37.5°	1627.0	1617.7	1618.3	1617.2	1610.6	1614.4	1614.4	1613.3	1616.6	1616.1	1618.3
40°	1762.9	1746.5	1741.6	1731.2	1716.9	1709.2	1701.0	1699.9	1691.7	1695.0	1689.0
42.5°	1949.3	1924.6	1911.5	1879.1	1861.6	1840.8	1820.5	1803.0	1793.6	1783.2	1775.6
45°	2205.2	2176.1	2144.4	2092.3	2062.2	2020.5	1993.7	1953.7	1926.8	1904.3	1888.4
47.5°	2526.3	2477.6	2451.8	2403.0	2350.4	2287.4	2229.9	2174.0	2128.5	2079.2	2040.2
50°	2899.5	2838.7	2818.4	2753.8	2724.2	2653.5	2592.1	2523.0	2451.8	2377.3	2306.0
52.5°	3230.0	3222.8	3231.1	3187.8	3186.7	3151.1	3083.1	3002.5	2936.2	2861.2	2767.5
55°	3626.2	3696.9	3712.2	3706.2	3738.5	3737.4	3730.9	3722.6	3670.0	3563.7	3531.4
57.5°	4325.4	4404.9	4522.2	4575.3	4692.6	4706.3	4814.8	4772.6	4853.2	4831.3	4846.1
60°	5037.3	5281.2	5503.7	5673.0	5837.4	5987.0	6170.0	6248.4	6307.0	6398.6	6495.0
62.5°	5355.7	5663.1	5928.4	6169.5	6373.9	6563.5	6720.8	6869.9	6987.1	7092.3	7173.5
65°	5226.9	5583.7	5842.3	6093.9	6284.6	6461.0	6617.2	6729.0	6845.7	6941.1	7027.1
67.5°	4351.7	4826.9	5164.4	5450.0	5689.4	5890.6	6052.8	6206.8	6289.5	6393.6	6440.2
70°	2882.5	3491.9	3969.2	4355.0	4734.8	4962.8	5155.1	5334.3	5428.6	5513.0	5565.0
72.5°	1583.2	1999.7	2509.3	2968.0	3333.0	3632.2	3856.3	4026.2	4123.2	4195.6	4120.5
75°	897.1	1102.6	1351.9	1605.7	1882.4	2093.4	2152.6	2224.9	2241.9	2204.6	2108.2
77.5°	824.8	824.8	825.3	819.3	831.3	846.1	837.4	822.6	755.7	740.9	720.1
80°	1072.5	955.7	830.8	682.3	556.2	469.1	442.2	444.4	465.8	507.5	553.5
82.5°	1520.2	1405.1	1224.8	998.5	794.6	623.6	511.3	459.8	459.2	500.9	560.6
85°	1108.6	1117.9	1077.9	953.5	760.6	599.0	483.9	371.6	335.4	335.4	331.0
87.5°	194.0	200.0	172.6	154.5	108.0	76.2	68.5	60.3	59.7	61.9	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



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CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	761.2	761.2	761.2	761.2	761.2	761.2	761.2	761.2	761.2	761.2	761.2
2.5°	774.9	773.8	772.7	772.1	772.1	771.1	771.1	770.0	770.5	770.0	768.3
5°	800.1	799.5	797.9	795.2	794.6	792.4	793.0	790.8	790.8	789.7	786.9
7.5°	831.9	830.8	829.7	827.5	825.3	825.3	821.5	821.5	818.7	817.6	815.4
10°	869.7	866.4	864.8	862.6	862.0	861.5	857.6	857.6	854.3	853.8	852.2
12.5°	907.0	904.8	903.1	902.0	899.3	898.7	897.1	895.4	893.8	892.7	892.2
15°	947.5	946.4	944.8	944.8	944.8	942.0	940.4	939.3	939.3	937.6	938.7
17.5°	1000.1	1001.8	999.6	998.5	996.8	999.6	996.8	996.8	998.5	998.5	994.6
20°	1065.3	1067.5	1065.3	1065.9	1064.8	1065.3	1065.9	1067.0	1069.2	1065.3	1065.9
22.5°	1137.7	1138.2	1139.9	1138.2	1141.0	1139.3	1142.6	1145.3	1144.8	1143.7	1144.2
25°	1216.6	1214.9	1215.5	1220.4	1224.3	1223.2	1223.7	1228.1	1227.0	1225.9	1226.4
27.5°	1296.6	1295.5	1297.1	1301.5	1305.9	1305.4	1304.3	1307.6	1307.6	1304.8	1305.9
30°	1376.1	1377.7	1380.4	1380.4	1382.6	1384.8	1383.2	1387.0	1387.6	1385.4	1388.1
32.5°	1459.9	1463.2	1462.1	1469.8	1469.8	1470.3	1472.0	1471.4	1476.9	1472.5	1474.1
35°	1560.7	1561.8	1568.4	1573.9	1577.2	1579.9	1579.9	1581.6	1584.3	1582.1	1585.4
37.5°	1622.1	1624.3	1626.5	1629.8	1629.8	1629.8	1632.5	1633.1	1634.7	1634.2	1635.3
40°	1689.5	1690.1	1690.6	1691.2	1693.4	1694.4	1691.7	1695.5	1692.8	1693.9	1695.5
42.5°	1771.2	1763.5	1764.6	1762.9	1766.8	1761.9	1762.9	1767.3	1765.1	1768.4	1768.4
45°	1866.0	1857.2	1849.5	1845.2	1845.2	1838.6	1839.7	1841.3	1844.1	1848.4	1856.1
47.5°	2006.3	1976.1	1961.3	1946.0	1938.3	1930.1	1932.8	1933.4	1934.5	1941.6	1960.8
50°	2235.9	2185.5	2146.6	2100.0	2082.4	2068.2	2060.0	2060.5	2060.5	2075.3	2094.5
52.5°	2679.8	2586.1	2493.4	2412.3	2342.7	2309.3	2270.4	2260.5	2261.1	2273.7	2286.8
55°	3446.4	3317.7	3219.6	3039.3	2984.5	2830.5	2749.4	2702.8	2666.6	2684.2	2703.3
57.5°	4821.9	4703.0	4625.2	4409.8	4213.7	4157.8	4024.6	3916.6	3872.2	3820.7	3824.0
60°	6509.3	6447.9	6428.2	6302.1	6231.4	6011.7	5994.1	5857.7	5728.9	5617.7	5663.1
62.5°	7235.9	7264.4	7287.4	7331.8	7348.8	7328.0	7239.8	7179.5	7073.7	6927.9	6838.6
65°	7052.3	7117.6	7215.7	7308.3	7419.0	7511.0	7556.5	7539.0	7443.6	7293.5	7106.0
67.5°	6473.6	6540.0	6624.3	6741.6	6911.0	7090.2	7215.1	7294.6	7218.9	7083.6	6892.9
70°	5562.3	5627.0	5629.7	5793.6	5976.1	6201.8	6423.2	6506.5	6420.5	6330.1	6170.6
72.5°	4166.0	4127.1	4163.2	4193.4	4297.5	4440.0	4654.8	4645.5	4514.0	4443.8	4198.9
75°	1958.0	1931.7	1893.4	1868.2	1844.1	1793.6	1817.7	1714.7	1679.1	1693.4	1481.8
77.5°	704.2	668.0	609.9	553.5	482.2	399.5	337.0	295.9	275.6	276.2	263.6
80°	590.8	608.3	600.1	544.2	464.2	377.6	282.8	214.3	183.0	169.9	161.7
82.5°	640.6	728.9	772.7	738.2	623.6	480.1	309.1	186.9	137.0	117.3	112.3
85°	355.1	355.7	344.7	329.4	292.1	200.6	133.7	88.8	71.2	63.6	61.4
87.5°	60.3	57.5	57.5	53.7	47.1	46.0	41.1	38.9	34.5	31.8	30.7
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):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	761.2	761.2	761.2	761.2	761.2	761.2	761.2	761.2	761.2	761.2	761.2
2.5°	766.7	765.6	765.0	764.5	764.5	763.9	763.9	762.8	761.7	761.2	760.6
5°	784.2	783.1	782.0	780.9	780.9	779.8	778.7	777.6	776.0	773.2	772.7
7.5°	813.8	811.6	811.6	807.8	807.8	805.6	803.9	803.9	801.7	797.4	796.8
10°	850.5	846.7	845.0	842.8	841.7	839.6	839.6	837.4	836.3	834.6	829.1
12.5°	890.0	887.2	886.1	883.4	881.7	881.7	880.7	876.8	879.6	875.7	873.0
15°	937.6	937.1	932.2	933.8	933.3	932.7	933.3	930.0	929.4	929.4	926.1
17.5°	997.4	993.0	993.5	993.5	994.6	994.6	990.3	992.4	993.0	991.9	990.8
20°	1067.5	1065.9	1067.5	1064.2	1067.5	1067.5	1069.7	1069.2	1069.7	1070.8	1070.8
22.5°	1142.6	1147.0	1147.5	1148.6	1144.8	1151.4	1151.4	1152.5	1155.2	1155.2	1156.3
25°	1233.6	1231.4	1228.6	1232.5	1233.6	1238.0	1239.1	1239.1	1243.4	1243.4	1245.1
27.5°	1309.2	1311.4	1310.8	1313.0	1311.9	1318.0	1320.2	1326.7	1325.1	1328.4	1332.8
30°	1387.0	1391.4	1389.2	1389.8	1392.5	1396.3	1400.7	1407.3	1408.4	1417.2	1419.3
32.5°	1476.9	1480.2	1482.9	1484.0	1484.0	1490.6	1497.7	1499.9	1511.4	1518.0	1525.7
35°	1590.9	1591.4	1593.1	1594.7	1593.6	1600.7	1607.9	1610.1	1622.1	1623.8	1639.6
37.5°	1639.1	1640.2	1646.8	1650.1	1652.3	1661.0	1674.2	1684.0	1697.2	1709.8	1727.9
40°	1699.4	1706.0	1712.0	1716.9	1725.1	1737.2	1757.5	1767.3	1787.1	1810.6	1828.2
42.5°	1775.6	1787.6	1792.0	1801.3	1821.6	1836.4	1856.7	1878.0	1904.3	1932.8	1953.7
45°	1866.0	1877.5	1893.9	1904.3	1927.9	1951.5	1983.8	2002.4	2029.3	2062.2	2085.2
47.5°	1975.6	1991.5	2007.9	2029.3	2057.2	2081.9	2114.2	2138.3	2165.2	2192.0	2217.2
50°	2112.0	2135.6	2157.5	2180.0	2217.2	2238.1	2269.9	2295.1	2320.3	2347.1	2370.1
52.5°	2295.6	2331.2	2359.2	2374.5	2424.9	2445.8	2484.7	2502.2	2523.0	2547.2	2576.7
55°	2696.2	2751.6	2798.7	2826.1	2902.8	2930.2	2980.6	3006.4	2992.1	3022.8	3076.0
57.5°	3854.7	3922.7	3979.1	4016.4	4094.7	4133.1	4135.8	4232.3	4175.3	4231.7	4240.0
60°	5542.0	5595.7	5582.0	5582.6	5557.9	5522.3	5590.8	5486.7	5530.5	5533.3	5435.2
62.5°	6673.7	6591.5	6553.1	6489.5	6415.6	6358.6	6319.7	6235.8	6169.0	6115.8	6012.2
65°	6940.0	6797.5	6671.5	6552.6	6443.5	6367.9	6285.7	6195.8	6091.1	6002.9	5902.1
67.5°	6682.4	6483.0	6296.1	6139.4	5990.3	5890.6	5771.6	5686.2	5554.6	5438.5	5361.7
70°	5935.5	5659.3	5441.2	5340.9	5192.9	4978.7	4865.2	4758.4	4677.8	4572.6	4526.0
72.5°	4163.8	3822.9	3654.7	3661.3	3511.1	3357.7	3361.5	3296.3	3192.2	3188.9	3173.0
75°	1530.0	1391.9	1294.9	1299.3	1243.4	1183.7	1200.1	1217.7	1183.7	1252.8	1145.9
77.5°	243.3	236.7	234.5	229.6	217.6	226.3	220.3	231.8	233.5	246.1	247.2
80°	155.1	148.5	146.9	144.1	143.6	143.6	142.5	142.5	142.5	143.0	141.9
82.5°	103.6	99.7	99.2	97.5	100.3	100.8	101.4	105.8	109.6	110.7	115.1
85°	56.4	53.7	53.7	52.6	54.8	55.3	60.3	66.3	74.0	77.3	84.4
87.5°	28.5	30.1	29.6	30.7	32.3	36.2	40.0	43.8	48.2	54.3	59.2
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-E03-E-7030

CANDELA DISTRIBUTION (continued):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	761.2	761.2	761.2	761.2	761.2	761.2	761.2	761.2	761.2	761.2	761.2
2.5°	759.5	759.0	759.0	757.9	757.9	757.4	756.3	755.2	750.2	744.2	740.4
5°	771.1	770.0	769.4	768.3	766.7	766.7	765.0	762.8	753.5	743.6	737.6
7.5°	794.6	794.1	792.4	790.2	788.0	785.8	784.8	783.7	769.4	760.1	755.7
10°	828.6	828.0	824.2	823.7	820.4	820.9	818.2	816.0	806.7	796.3	790.2
12.5°	871.9	874.1	871.9	867.0	868.0	866.4	863.7	860.9	852.7	844.5	835.2
15°	925.6	922.8	920.7	925.0	921.2	920.7	922.3	922.8	913.0	904.2	891.1
17.5°	992.4	992.4	991.4	992.4	990.3	991.9	990.8	991.9	987.5	975.5	956.3
20°	1068.6	1073.0	1073.0	1071.4	1070.8	1074.1	1075.7	1069.7	1070.8	1060.4	1025.9
22.5°	1157.4	1160.7	1161.8	1160.1	1160.7	1165.1	1167.8	1163.4	1173.3	1156.3	1103.1
25°	1248.9	1253.8	1251.7	1252.2	1256.6	1261.5	1266.5	1262.1	1281.2	1254.9	1185.3
27.5°	1339.3	1343.7	1342.6	1345.9	1353.0	1359.6	1365.1	1363.4	1395.2	1360.7	1271.9
30°	1424.8	1435.2	1437.4	1441.3	1450.0	1461.0	1469.8	1469.2	1510.3	1463.7	1342.6
32.5°	1530.0	1541.6	1545.9	1554.2	1571.1	1578.8	1589.8	1590.9	1632.0	1554.2	1402.4
35°	1651.7	1663.2	1672.5	1678.6	1697.7	1707.1	1718.0	1722.9	1750.3	1638.6	1444.0
37.5°	1746.0	1755.8	1773.9	1786.5	1803.5	1822.1	1834.7	1840.8	1856.1	1710.9	1463.2
40°	1849.0	1870.4	1887.9	1907.1	1925.7	1940.5	1952.0	1961.3	1955.3	1771.2	1455.0
42.5°	1979.4	2001.9	2025.4	2041.9	2051.8	2071.5	2077.0	2083.5	2034.2	1798.6	1417.7
45°	2115.3	2133.4	2153.1	2165.2	2178.3	2188.2	2189.8	2190.4	2092.9	1782.7	1350.3
47.5°	2246.3	2261.6	2275.3	2281.9	2288.5	2289.0	2286.3	2281.9	2124.1	1729.0	1269.2
50°	2389.9	2399.2	2405.2	2405.8	2411.8	2400.3	2392.6	2372.3	2120.8	1646.8	1183.7
52.5°	2596.5	2594.3	2586.6	2586.1	2566.9	2545.0	2530.7	2501.7	2098.3	1558.0	1085.1
55°	3071.0	3050.2	3074.3	3013.0	2962.0	2928.0	2847.5	2788.8	2120.8	1475.2	971.6
57.5°	4211.5	4140.2	4147.9	4048.7	3940.2	3736.9	3616.9	3454.7	2297.3	1429.2	828.6
60°	5414.3	5297.1	5186.4	5010.5	4779.7	4521.6	4289.3	4035.5	2472.6	1372.8	676.2
62.5°	5910.8	5759.6	5567.2	5319.0	5022.5	4702.5	4381.3	4092.0	2376.2	1202.9	487.2
65°	5750.8	5570.0	5365.0	5041.1	4704.7	4332.6	3980.7	3675.0	1978.9	879.6	294.3
67.5°	5182.5	5026.9	4774.3	4468.5	4052.0	3678.8	3330.8	3048.0	1458.8	543.6	168.8
70°	4363.8	4148.4	3932.5	3638.8	3199.8	2848.0	2524.1	2274.2	925.6	268.5	124.4
72.5°	3011.9	2841.4	2668.8	2405.8	2078.1	1835.8	1557.4	1351.9	484.4	144.7	114.5
75°	1173.3	1154.7	1134.9	1015.5	904.2	724.5	636.2	573.8	201.7	125.5	112.9
77.5°	257.6	272.9	281.7	266.9	254.3	226.9	217.0	194.0	134.8	128.8	111.8
80°	141.9	141.9	141.9	143.6	140.8	140.8	139.2	136.5	126.0	128.8	109.6
82.5°	116.2	117.8	120.0	120.6	120.0	120.6	119.5	118.9	123.3	129.3	104.1
85°	88.8	94.3	97.5	101.9	106.3	109.1	110.2	110.7	113.4	122.8	91.0
87.5°	63.0	67.4	74.5	75.6	80.6	86.6	88.8	92.1	90.4	93.2	42.7
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°	761.2	761.2	761.2	761.2	761.2
2.5°	737.1	732.7	731.0	730.5	729.4
5°	732.7	729.9	727.8	726.1	727.2
7.5°	752.4	750.8	746.9	745.8	747.5
10°	787.5	783.7	778.2	778.7	778.2
12.5°	831.3	820.9	812.2	808.3	805.6
15°	876.3	856.0	837.9	829.7	826.4
17.5°	926.1	891.6	863.7	848.9	846.1
20°	978.7	931.1	894.9	877.4	874.6
22.5°	1039.6	973.8	927.8	903.7	899.8
25°	1098.8	1012.2	950.8	921.2	916.3
27.5°	1152.5	1041.2	964.5	929.4	924.5
30°	1197.4	1064.2	976.0	936.0	930.5
32.5°	1227.0	1076.8	979.8	936.5	930.0
35°	1236.3	1068.6	963.4	913.5	908.1
37.5°	1216.6	1035.2	919.6	863.1	858.7
40°	1171.6	973.3	850.5	791.9	786.4
42.5°	1101.5	894.9	770.5	708.6	703.6
45°	1023.7	811.1	685.6	623.6	618.7
47.5°	938.7	722.3	596.2	539.2	531.6
50°	845.6	625.8	505.3	449.4	442.2
52.5°	736.5	520.6	408.8	358.4	354.0
55°	608.8	414.8	325.5	288.8	284.4
57.5°	473.5	315.7	258.7	240.6	233.5
60°	343.6	240.0	206.1	197.3	193.4
62.5°	233.5	179.2	166.0	163.3	160.6
65°	158.4	140.3	136.5	137.0	135.4
67.5°	124.9	117.8	115.6	116.7	116.2
70°	109.6	104.1	103.6	104.7	104.1
72.5°	103.6	96.4	97.5	99.2	98.6
75°	100.8	93.2	95.4	96.4	93.7
77.5°	98.1	88.2	94.8	97.0	91.5
80°	94.3	83.8	99.2	98.1	87.7
82.5°	86.0	74.0	97.0	88.8	78.9
85°	70.1	55.3	109.1	78.4	57.5
87.5°	44.9	33.4	75.6	59.7	38.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)