

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: P146341

Luminaire Tested: **LDRL-T2-E03-E-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146341
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-7050
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (63) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9230.5 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

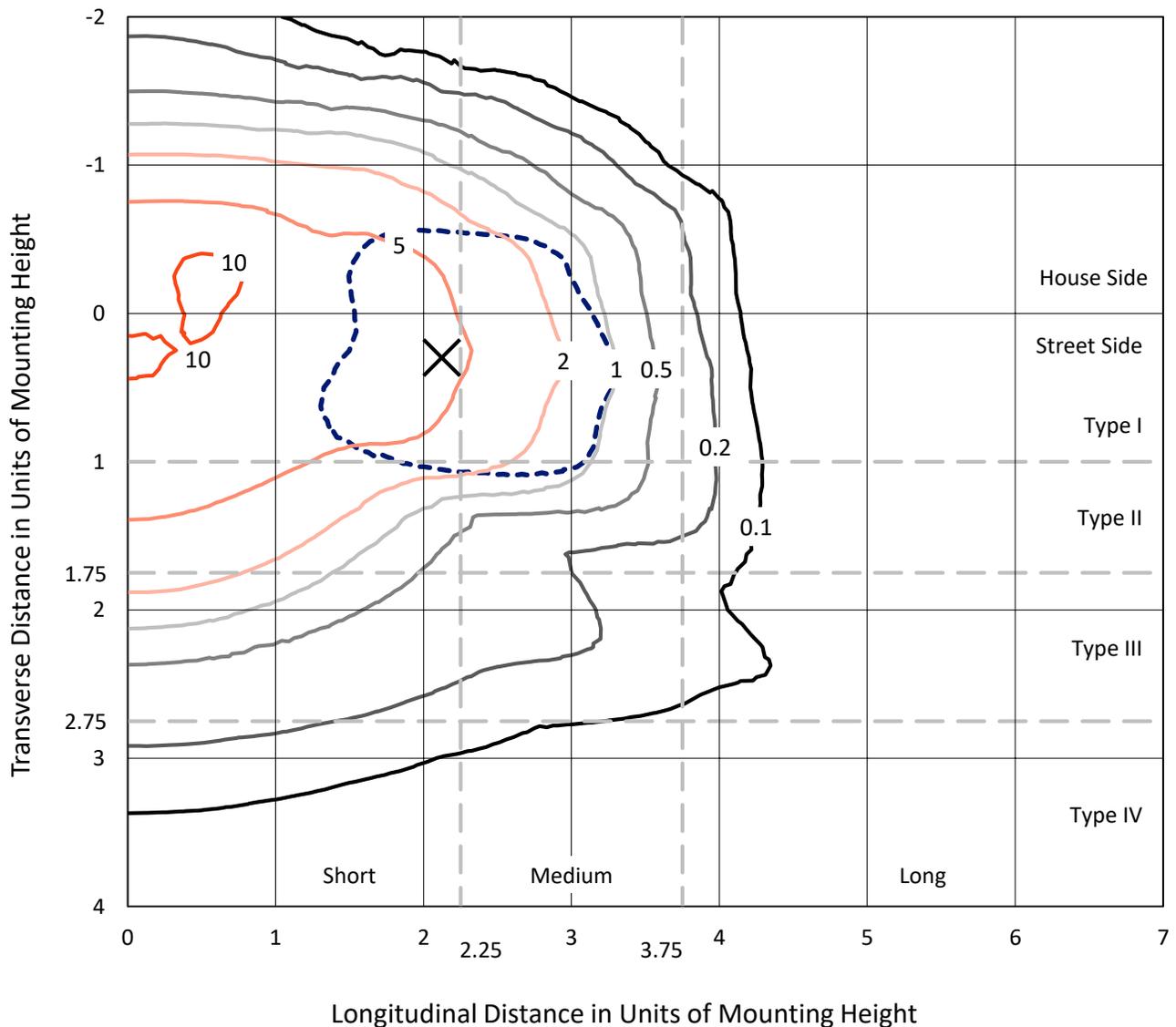
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P146341
 CATALOG NUMBER: LDRL-T2-E03-E-7050

Iso-Footcandle Lines of Horizontal Illumination

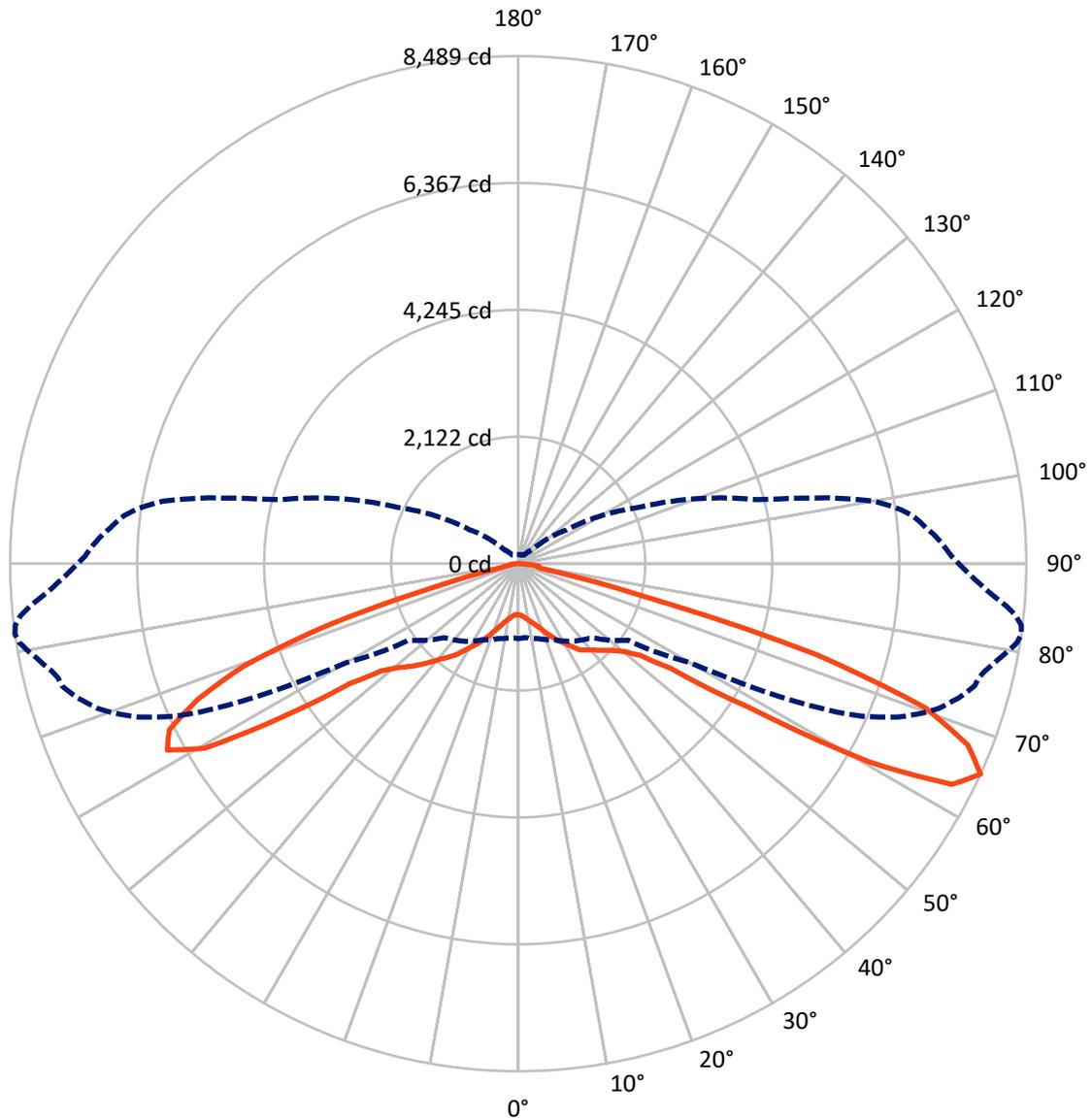
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P146341
CATALOG NUMBER: LDRL-T2-E03-E-7050

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P146341

CATALOG NUMBER: LDRL-T2-E03-E-7050

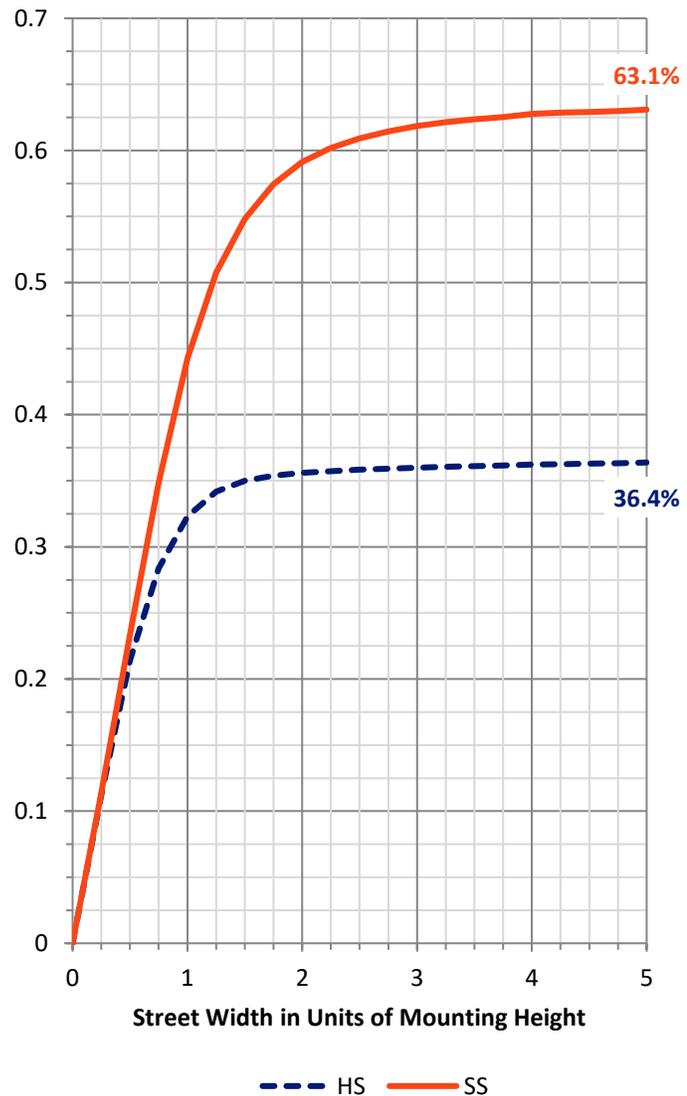
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3397.8	0.0	3397.8
	% Fixture	36.8	0.0	36.8
Street Side	Lumens	5832.7	0.0	5832.7
	% Fixture	63.2	0.0	63.2
Total	Lumens	9230.5	0.0	9230.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	0.9
10°-20°	305.7	3.3
20°-30°	606.3	6.6
30°-40°	1034.6	11.2
40°-50°	1551.3	16.8
50°-60°	2159.3	23.4
60°-70°	2480.8	26.9
70°-80°	856.1	9.3
80°-90°	149.7	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°	9230.5	100.0
0°-180°	9230.5	100.0



REPORT NUMBER: P146341

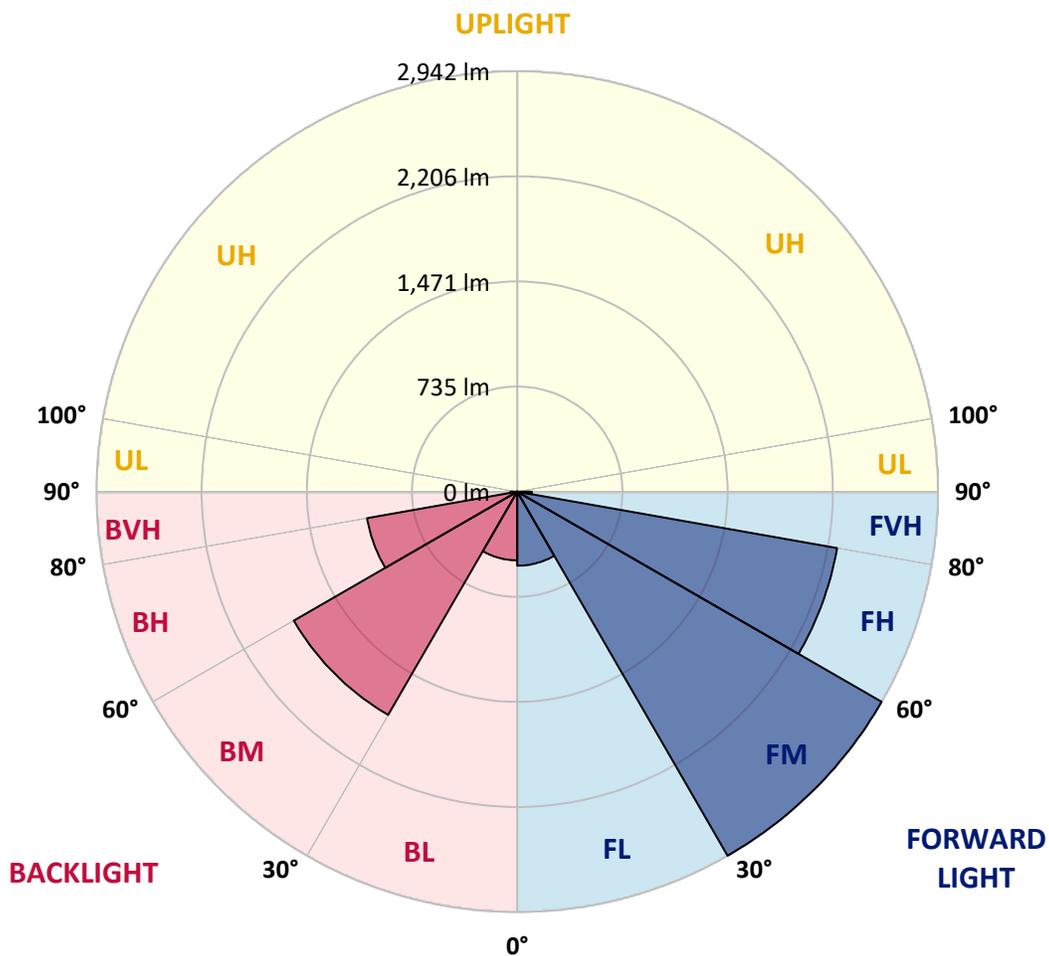
CATALOG NUMBER: LDRL-T2-E03-E-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	518.1	5.6			
FM	(30°-60°)	2941.9	31.9			
FH	(60°-80°)	2271.0	24.6			G2/5000
FVH	(80°-90°)	101.7	1.1			G2/225
BL	(0°-30°)	480.6	5.2	B1/500		
BM	(30°-60°)	1803.3	19.5	B2/2500		
BH	(60°-80°)	1065.8	11.5	B3/2500		G3/2500
BVH	(80°-90°)	48.0	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





REPORT NUMBER: P146341

CATALOG NUMBER: LDRL-T2-E03-E-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	855.2	855.2	855.2	855.2	855.2	855.2	855.2	855.2	855.2	855.2	855.2
2.5°	902.6	901.9	901.3	898.9	897.6	892.7	887.8	884.7	882.2	883.5	879.8
5°	954.9	954.9	952.4	949.4	945.7	938.9	926.6	920.4	919.2	919.2	914.9
7.5°	1008.5	1012.2	1005.4	1002.9	996.8	986.3	972.1	964.1	961.7	961.7	958.0
10°	1076.2	1074.3	1066.9	1062.0	1049.7	1035.5	1016.5	1007.2	1003.5	1006.6	1000.5
12.5°	1147.6	1147.0	1135.9	1126.7	1109.4	1086.6	1061.4	1049.1	1046.6	1046.6	1042.9
15°	1220.2	1220.9	1208.5	1191.3	1164.2	1133.4	1105.1	1093.4	1090.3	1089.1	1084.8
17.5°	1275.7	1281.8	1269.5	1247.3	1214.1	1180.2	1150.1	1138.4	1137.7	1136.5	1131.6
20°	1307.1	1308.3	1301.5	1285.5	1256.0	1223.3	1202.4	1196.8	1196.2	1196.8	1198.1
22.5°	1305.8	1307.7	1305.2	1299.0	1280.0	1262.1	1259.6	1262.7	1264.6	1262.7	1267.0
25°	1296.0	1298.4	1298.4	1301.5	1296.6	1302.7	1322.4	1331.1	1331.7	1332.9	1342.1
27.5°	1317.5	1320.0	1319.4	1324.9	1329.2	1350.8	1386.5	1401.9	1403.7	1408.0	1416.6
30°	1417.3	1417.9	1406.8	1406.2	1410.5	1427.7	1464.0	1481.9	1480.1	1488.7	1494.2
32.5°	1574.9	1579.8	1568.7	1557.0	1555.2	1557.6	1564.4	1576.7	1574.9	1579.2	1586.6
35°	1754.6	1755.3	1749.1	1755.9	1759.6	1742.9	1710.9	1707.8	1698.0	1699.8	1702.3
37.5°	1919.6	1923.9	1935.6	1978.7	2003.4	1962.7	1899.9	1860.5	1854.4	1851.3	1829.8
40°	2074.2	2095.7	2124.0	2180.1	2213.9	2228.7	2139.4	2060.0	2038.5	2029.8	1996.0
42.5°	2255.2	2266.3	2299.5	2363.5	2408.5	2475.6	2415.9	2328.4	2303.2	2266.3	2223.8
45°	2408.5	2415.9	2436.8	2491.0	2585.2	2697.2	2704.0	2643.0	2623.3	2586.4	2524.2
47.5°	2511.3	2510.7	2526.1	2579.0	2701.5	2872.7	2974.3	2971.8	2949.0	2936.1	2883.2
50°	2551.3	2550.7	2560.5	2619.6	2753.2	2977.3	3201.4	3278.4	3277.8	3282.7	3255.6
52.5°	2558.7	2558.1	2559.3	2606.7	2742.8	3013.7	3365.2	3546.8	3573.3	3606.6	3636.7
55°	2503.3	2509.4	2523.0	2572.9	2703.4	2998.9	3486.5	3798.6	3862.1	3929.8	4039.4
57.5°	2375.2	2386.9	2433.7	2523.0	2661.5	2962.6	3570.8	4110.2	4238.8	4402.6	4699.4
60°	2191.8	2202.2	2266.9	2385.1	2539.6	2804.3	3473.0	4240.7	4485.1	4769.5	5377.8
62.5°	1867.3	1896.9	1931.3	2015.1	2177.0	2390.0	3033.4	4020.3	4398.9	4816.3	5653.6
65°	1254.1	1241.8	1299.0	1405.6	1583.5	1749.1	2234.9	3316.0	3794.9	4369.4	5405.5
67.5°	776.4	778.2	817.0	921.0	1055.2	1183.9	1416.6	2113.6	2538.4	3084.5	4330.6
70°	641.5	648.9	680.3	777.0	891.5	1036.8	1051.6	1120.5	1310.7	1574.9	2675.1
72.5°	509.2	512.2	544.2	624.9	786.8	986.3	1248.6	851.5	836.7	876.7	1356.9
75°	315.8	318.3	334.3	386.0	510.4	768.3	1374.8	978.9	917.3	865.6	874.2
77.5°	163.2	168.1	176.7	200.1	267.8	429.1	1082.3	1241.2	1171.0	1100.8	963.5
80°	92.3	92.3	100.4	105.9	126.8	174.8	550.4	1343.4	1467.7	1497.9	1345.2
82.5°	41.2	46.2	62.2	66.5	72.6	80.0	182.2	807.1	1119.9	1398.8	1728.8
85°	24.6	24.0	39.4	43.1	44.9	38.2	68.3	329.4	523.3	765.9	1145.7
87.5°	9.9	10.5	16.6	17.9	20.9	15.4	25.9	70.8	104.0	150.8	213.0
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: P146341
 CATALOG NUMBER: LDRL-T2-E03-E-7050

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	855.2	855.2	855.2	855.2	855.2	855.2	855.2	855.2	855.2	855.2	855.2
2.5°	879.2	879.2	878.6	877.9	877.3	875.5	874.9	873.6	873.0	871.2	870.5
5°	914.3	912.4	911.8	910.6	910.0	907.5	907.5	905.0	903.2	900.7	900.1
7.5°	956.1	953.7	951.8	950.6	950.0	945.7	945.7	942.0	941.3	938.3	937.0
10°	998.6	996.8	994.3	993.1	992.4	990.0	987.5	985.1	983.2	981.4	978.9
12.5°	1041.1	1037.4	1036.2	1034.3	1033.1	1031.2	1030.6	1025.1	1025.1	1023.2	1020.8
15°	1082.3	1081.7	1077.4	1076.8	1075.6	1076.2	1072.5	1073.1	1071.3	1068.2	1066.9
17.5°	1132.8	1128.5	1130.4	1127.3	1127.9	1126.7	1125.4	1124.8	1126.0	1125.4	1126.7
20°	1195.6	1194.4	1196.2	1191.9	1196.2	1196.8	1195.6	1198.7	1197.5	1198.7	1195.0
22.5°	1270.1	1265.8	1265.8	1268.9	1270.7	1276.3	1273.2	1275.7	1278.1	1280.0	1277.5
25°	1345.2	1344.0	1346.5	1348.9	1352.6	1357.5	1356.3	1356.9	1361.8	1364.9	1365.5
27.5°	1421.6	1421.6	1429.0	1429.0	1433.9	1439.4	1441.3	1443.7	1447.4	1451.7	1451.7
30°	1500.4	1500.4	1507.1	1513.3	1515.8	1522.5	1526.2	1529.9	1536.7	1537.9	1543.5
32.5°	1590.3	1592.1	1598.9	1602.6	1608.1	1616.1	1617.3	1621.7	1629.7	1632.1	1636.4
35°	1707.2	1701.1	1707.2	1714.0	1717.1	1714.6	1728.2	1733.7	1739.2	1742.3	1747.9
37.5°	1827.9	1817.4	1818.1	1816.8	1809.4	1813.7	1813.7	1812.5	1816.2	1815.6	1818.1
40°	1980.6	1962.1	1956.6	1944.9	1928.9	1920.3	1911.0	1909.8	1900.6	1904.2	1897.5
42.5°	2189.9	2162.2	2147.4	2111.1	2091.4	2068.0	2045.2	2025.5	2015.1	2003.4	1994.7
45°	2477.4	2444.8	2409.1	2350.6	2316.7	2270.0	2239.8	2194.8	2164.7	2139.4	2121.6
47.5°	2838.2	2783.4	2754.5	2699.7	2640.6	2569.8	2505.1	2442.3	2391.2	2335.8	2292.1
50°	3257.5	3189.1	3166.4	3093.7	3060.5	2981.0	2912.1	2834.5	2754.5	2670.7	2590.7
52.5°	3628.7	3620.7	3630.0	3581.3	3580.1	3540.1	3463.7	3373.2	3298.7	3214.4	3109.1
55°	4073.8	4153.3	4170.5	4163.7	4200.1	4198.8	4191.4	4182.2	4123.1	4003.7	3967.3
57.5°	4859.4	4948.7	5080.5	5140.2	5271.9	5287.3	5409.2	5361.8	5452.3	5427.7	5444.3
60°	5659.2	5933.1	6183.1	6373.3	6558.0	6726.1	6931.8	7019.8	7085.7	7188.5	7296.8
62.5°	6016.9	6362.3	6660.2	6931.1	7160.8	7373.8	7550.5	7718.0	7849.7	7967.9	8059.0
65°	5872.2	6273.0	6563.6	6846.2	7060.4	7258.7	7434.1	7559.7	7690.9	7798.0	7894.7
67.5°	4889.0	5422.8	5802.0	6122.8	6391.8	6617.8	6800.0	6973.0	7066.0	7182.9	7235.3
70°	3238.4	3923.0	4459.2	4892.7	5319.3	5575.4	5791.5	5992.9	6098.8	6193.6	6252.1
72.5°	1778.7	2246.6	2819.1	3334.4	3744.5	4080.6	4332.4	4523.3	4632.3	4713.5	4629.2
75°	1007.8	1238.7	1518.8	1803.9	2114.8	2351.8	2418.3	2499.6	2518.7	2476.8	2368.5
77.5°	926.6	926.6	927.2	920.4	934.0	950.6	940.7	924.1	849.0	832.4	809.0
80°	1204.9	1073.7	933.3	766.5	624.9	527.0	496.8	499.3	523.3	570.1	621.8
82.5°	1707.8	1578.6	1376.0	1121.7	892.7	700.6	574.4	516.5	515.9	562.7	629.8
85°	1245.5	1256.0	1211.0	1071.3	854.5	672.9	543.6	417.4	376.8	376.8	371.9
87.5°	217.9	224.7	193.9	173.6	121.3	85.6	77.0	67.7	67.1	69.6	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



REPORT NUMBER: P146341

CATALOG NUMBER: LDRL-T2-E03-E-7050

CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	855.2	855.2	855.2	855.2	855.2	855.2	855.2	855.2	855.2	855.2	855.2
2.5°	870.5	869.3	868.1	867.5	867.5	866.2	866.2	865.0	865.6	865.0	863.2
5°	898.9	898.3	896.4	893.3	892.7	890.2	890.9	888.4	888.4	887.2	884.1
7.5°	934.6	933.3	932.1	929.7	927.2	927.2	922.9	922.9	919.8	918.6	916.1
10°	977.1	973.4	971.5	969.1	968.4	967.8	963.5	963.5	959.8	959.2	957.4
12.5°	1018.9	1016.5	1014.6	1013.4	1010.3	1009.7	1007.8	1006.0	1004.1	1002.9	1002.3
15°	1064.5	1063.3	1061.4	1061.4	1061.4	1058.3	1056.5	1055.2	1055.2	1053.4	1054.6
17.5°	1123.6	1125.4	1123.0	1121.7	1119.9	1123.0	1119.9	1119.9	1121.7	1121.7	1117.4
20°	1196.8	1199.3	1196.8	1197.5	1196.2	1196.8	1197.5	1198.7	1201.2	1196.8	1197.5
22.5°	1278.1	1278.7	1280.6	1278.7	1281.8	1280.0	1283.7	1286.7	1286.1	1284.9	1285.5
25°	1366.8	1364.9	1365.5	1371.1	1375.4	1374.2	1374.8	1379.7	1378.5	1377.2	1377.9
27.5°	1456.7	1455.4	1457.3	1462.2	1467.1	1466.5	1465.3	1469.0	1469.0	1465.9	1467.1
30°	1545.9	1547.8	1550.9	1550.9	1553.3	1555.8	1553.9	1558.2	1558.9	1556.4	1559.5
32.5°	1640.1	1643.8	1642.6	1651.2	1651.2	1651.8	1653.7	1653.1	1659.2	1654.3	1656.1
35°	1753.4	1754.6	1762.0	1768.2	1771.9	1775.0	1775.0	1776.8	1779.9	1777.4	1781.1
37.5°	1822.4	1824.8	1827.3	1831.0	1831.0	1831.0	1834.1	1834.7	1836.5	1835.9	1837.1
40°	1898.1	1898.7	1899.3	1899.9	1902.4	1903.6	1900.6	1904.9	1901.8	1903.0	1904.9
42.5°	1989.8	1981.2	1982.4	1980.6	1984.9	1979.4	1980.6	1985.5	1983.1	1986.7	1986.7
45°	2096.3	2086.5	2077.9	2072.9	2072.9	2065.6	2066.8	2068.6	2071.7	2076.6	2085.3
47.5°	2253.9	2220.1	2203.5	2186.2	2177.6	2168.4	2171.4	2172.1	2173.3	2181.3	2202.8
50°	2511.9	2455.3	2411.6	2359.2	2339.5	2323.5	2314.3	2314.9	2314.9	2331.5	2353.1
52.5°	3010.6	2905.3	2801.3	2710.1	2632.0	2594.4	2550.7	2539.6	2540.2	2554.4	2569.2
55°	3871.9	3727.2	3617.0	3414.5	3352.9	3179.9	3088.8	3036.5	2995.8	3015.5	3037.1
57.5°	5417.2	5283.6	5196.2	4954.2	4733.8	4671.0	4521.4	4400.1	4350.3	4292.4	4296.1
60°	7312.8	7243.9	7221.7	7080.1	7000.7	6753.8	6734.1	6580.8	6436.1	6311.2	6362.3
62.5°	8129.2	8161.2	8187.1	8237.0	8256.0	8232.6	8133.5	8065.8	7947.0	7783.2	7682.9
65°	7923.0	7996.2	8106.4	8210.5	8334.8	8438.3	8489.4	8469.7	8362.6	8193.9	7983.3
67.5°	7272.8	7347.3	7442.1	7573.9	7764.1	7965.5	8105.8	8195.1	8110.1	7958.1	7743.8
70°	6249.0	6321.6	6324.7	6508.8	6713.8	6967.5	7216.2	7309.8	7213.1	7111.5	6932.4
72.5°	4680.3	4636.6	4677.2	4711.1	4828.0	4988.1	5229.4	5219.0	5071.2	4992.4	4717.2
75°	2199.8	2170.2	2127.1	2098.8	2071.7	2015.1	2042.2	1926.4	1886.4	1902.4	1664.8
77.5°	791.1	750.5	685.2	621.8	541.8	448.8	378.6	332.5	309.7	310.3	296.1
80°	663.7	683.4	674.2	611.4	521.5	424.2	317.7	240.7	205.6	190.9	181.6
82.5°	719.7	818.8	868.1	829.3	700.6	539.3	347.2	209.9	153.9	131.8	126.2
85°	398.9	399.6	387.3	370.0	328.1	225.3	150.2	99.7	80.0	71.4	69.0
87.5°	67.7	64.6	64.6	60.3	52.9	51.7	46.2	43.7	38.8	35.7	34.5
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: P146341

CATALOG NUMBER: LDRL-T2-E03-E-7050

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	855.2	855.2	855.2	855.2	855.2	855.2	855.2	855.2	855.2	855.2	855.2
2.5°	861.3	860.1	859.5	858.9	858.9	858.2	858.2	857.0	855.8	855.2	854.5
5°	881.0	879.8	878.6	877.3	877.3	876.1	874.9	873.6	871.8	868.7	868.1
7.5°	914.3	911.8	911.8	907.5	907.5	905.0	903.2	903.2	900.7	895.8	895.2
10°	955.5	951.2	949.4	946.9	945.7	943.2	943.2	940.7	939.5	937.7	931.5
12.5°	999.8	996.8	995.5	992.4	990.6	990.6	989.4	985.1	988.1	983.8	980.8
15°	1053.4	1052.8	1047.2	1049.1	1048.5	1047.9	1048.5	1044.8	1044.2	1044.2	1040.5
17.5°	1120.5	1115.6	1116.2	1116.2	1117.4	1117.4	1112.5	1115.0	1115.6	1114.4	1113.1
20°	1199.3	1197.5	1199.3	1195.6	1199.3	1199.3	1201.8	1201.2	1201.8	1203.0	1203.0
22.5°	1283.7	1288.6	1289.2	1290.4	1286.1	1293.5	1293.5	1294.7	1297.8	1297.8	1299.0
25°	1385.9	1383.4	1380.3	1384.6	1385.9	1390.8	1392.0	1392.0	1396.9	1396.9	1398.8
27.5°	1470.8	1473.3	1472.7	1475.1	1473.9	1480.7	1483.1	1490.5	1488.7	1492.4	1497.3
30°	1558.2	1563.2	1560.7	1561.3	1564.4	1568.7	1573.6	1581.0	1582.3	1592.1	1594.6
32.5°	1659.2	1662.9	1666.0	1667.2	1667.2	1674.6	1682.6	1685.1	1698.0	1705.4	1714.0
35°	1787.3	1787.9	1789.7	1791.6	1790.3	1798.4	1806.4	1808.8	1822.4	1824.2	1842.1
37.5°	1841.4	1842.7	1850.1	1853.8	1856.2	1866.1	1880.9	1891.9	1906.7	1920.9	1941.2
40°	1909.2	1916.6	1923.3	1928.9	1938.1	1951.7	1974.4	1985.5	2007.7	2034.2	2053.9
42.5°	1994.7	2008.3	2013.2	2023.7	2046.5	2063.1	2085.9	2109.9	2139.4	2171.4	2194.8
45°	2096.3	2109.3	2127.7	2139.4	2165.9	2192.4	2228.7	2249.6	2279.8	2316.7	2342.6
47.5°	2219.5	2237.3	2255.8	2279.8	2311.2	2338.9	2375.2	2402.3	2432.5	2462.7	2491.0
50°	2372.8	2399.2	2423.9	2449.1	2491.0	2514.4	2550.1	2578.4	2606.7	2636.9	2662.7
52.5°	2579.0	2619.0	2650.4	2667.7	2724.3	2747.7	2791.4	2811.1	2834.5	2861.6	2894.8
55°	3029.1	3091.2	3144.2	3175.0	3261.2	3292.0	3348.6	3377.5	3361.5	3396.0	3455.7
57.5°	4330.6	4406.9	4470.3	4512.2	4600.2	4643.3	4646.4	4754.8	4690.7	4754.2	4763.4
60°	6226.2	6286.5	6271.1	6271.8	6244.1	6204.0	6281.0	6164.0	6213.3	6216.4	6106.1
62.5°	7497.5	7405.2	7362.1	7290.7	7207.6	7143.5	7099.8	7005.6	6930.5	6870.8	6754.4
65°	7796.8	7636.7	7495.1	7361.5	7239.0	7154.0	7061.7	6960.7	6843.1	6744.0	6630.7
67.5°	7507.4	7283.3	7073.4	6897.3	6729.8	6617.8	6484.2	6388.1	6240.4	6109.8	6023.6
70°	6668.2	6358.0	6112.9	6000.3	5834.0	5593.3	5465.9	5345.8	5255.3	5137.1	5084.8
72.5°	4677.8	4294.9	4105.9	4113.2	3944.6	3772.2	3776.5	3703.2	3586.2	3582.5	3564.7
75°	1718.9	1563.8	1454.8	1459.7	1396.9	1329.8	1348.3	1368.0	1329.8	1407.4	1287.4
77.5°	273.4	266.0	263.5	258.0	244.4	254.3	247.5	260.4	262.3	276.4	277.7
80°	174.2	166.8	165.0	161.9	161.3	161.3	160.1	160.1	160.1	160.7	159.5
82.5°	116.4	112.1	111.4	109.6	112.7	113.3	113.9	118.8	123.1	124.4	129.3
85°	63.4	60.3	60.3	59.1	61.6	62.2	67.7	74.5	83.1	86.8	94.8
87.5°	32.0	33.9	33.2	34.5	36.3	40.6	44.9	49.3	54.2	61.0	66.5
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: P146341

CATALOG NUMBER: LDRL-T2-E03-E-7050

CANDELA DISTRIBUTION (continued):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	855.2	855.2	855.2	855.2	855.2	855.2	855.2	855.2	855.2	855.2	855.2
2.5°	853.3	852.7	852.7	851.5	851.5	850.8	849.6	848.4	842.8	836.1	831.8
5°	866.2	865.0	864.4	863.2	861.3	861.3	859.5	857.0	846.5	835.5	828.7
7.5°	892.7	892.1	890.2	887.8	885.3	882.9	881.6	880.4	864.4	853.9	849.0
10°	930.9	930.3	926.0	925.3	921.6	922.3	919.2	916.7	906.3	894.6	887.8
12.5°	979.5	982.0	979.5	974.0	975.2	973.4	970.3	967.2	958.0	948.7	938.3
15°	1039.9	1036.8	1034.3	1039.2	1034.9	1034.3	1036.2	1036.8	1025.7	1015.8	1001.1
17.5°	1115.0	1115.0	1113.7	1115.0	1112.5	1114.4	1113.1	1114.4	1109.4	1095.9	1074.3
20°	1200.5	1205.5	1205.5	1203.6	1203.0	1206.7	1208.5	1201.8	1203.0	1191.3	1152.5
22.5°	1300.3	1304.0	1305.2	1303.4	1304.0	1308.9	1312.0	1307.1	1318.1	1299.0	1239.3
25°	1403.1	1408.6	1406.2	1406.8	1411.7	1417.3	1422.8	1417.9	1439.4	1409.9	1331.7
27.5°	1504.7	1509.6	1508.4	1512.1	1520.1	1527.5	1533.6	1531.8	1567.5	1528.7	1429.0
30°	1600.7	1612.4	1614.9	1619.2	1629.0	1641.4	1651.2	1650.6	1696.8	1644.4	1508.4
32.5°	1718.9	1731.9	1736.8	1746.0	1765.1	1773.7	1786.0	1787.3	1833.4	1746.0	1575.5
35°	1855.6	1868.5	1879.0	1885.8	1907.3	1917.8	1930.1	1935.6	1966.4	1840.8	1622.3
37.5°	1961.5	1972.6	1992.9	2007.1	2026.1	2047.1	2061.2	2068.0	2085.3	1922.1	1643.8
40°	2077.2	2101.3	2121.0	2142.5	2163.4	2180.1	2193.0	2203.5	2196.7	1989.8	1634.6
42.5°	2223.8	2249.0	2275.5	2294.0	2305.0	2327.2	2333.4	2340.8	2285.3	2020.6	1592.7
45°	2376.5	2396.8	2418.9	2432.5	2447.3	2458.3	2460.2	2460.8	2351.2	2002.8	1517.0
47.5°	2523.6	2540.8	2556.2	2563.6	2571.0	2571.6	2568.5	2563.6	2386.3	1942.4	1425.9
50°	2684.9	2695.4	2702.1	2702.8	2709.5	2696.6	2688.0	2665.2	2382.6	1850.1	1329.8
52.5°	2917.0	2914.5	2905.9	2905.3	2883.8	2859.1	2843.1	2810.5	2357.4	1750.3	1219.0
55°	3450.2	3426.8	3453.9	3384.9	3327.7	3289.5	3199.0	3133.1	2382.6	1657.4	1091.6
57.5°	4731.4	4651.3	4660.0	4548.5	4426.6	4198.2	4063.4	3881.1	2580.9	1605.6	930.9
60°	6082.8	5951.0	5826.6	5629.0	5369.8	5079.8	4818.8	4533.7	2777.9	1542.2	759.7
62.5°	6640.5	6470.6	6254.5	5975.6	5642.6	5283.0	4922.2	4597.2	2669.5	1351.4	547.3
65°	6460.8	6257.6	6027.3	5663.5	5285.5	4867.4	4472.2	4128.6	2223.2	988.1	330.6
67.5°	5822.3	5647.5	5363.7	5020.1	4552.2	4132.9	3742.0	3424.3	1638.9	610.7	189.6
70°	4902.5	4660.6	4418.0	4088.0	3594.9	3199.6	2835.7	2555.0	1039.9	301.7	139.8
72.5°	3383.7	3192.2	2998.3	2702.8	2334.6	2062.5	1749.7	1518.8	544.2	162.5	128.7
75°	1318.1	1297.2	1275.0	1140.8	1015.8	813.9	714.8	644.6	226.6	141.0	126.8
77.5°	289.4	306.6	316.5	299.8	285.7	254.9	243.8	217.9	151.5	144.7	125.6
80°	159.5	159.5	159.5	161.3	158.2	158.2	156.4	153.3	141.6	144.7	123.1
82.5°	130.5	132.4	134.8	135.4	134.8	135.4	134.2	133.6	138.5	145.3	117.0
85°	99.7	105.9	109.6	114.5	119.4	122.5	123.7	124.4	127.4	137.9	102.2
87.5°	70.8	75.7	83.7	85.0	90.5	97.3	99.7	103.4	101.6	104.7	48.0
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: P146341

CATALOG NUMBER: LDRL-T2-E03-E-7050

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	855.2	855.2	855.2	855.2	855.2
2.5°	828.1	823.1	821.3	820.7	819.4
5°	823.1	820.1	817.6	815.8	817.0
7.5°	845.3	843.5	839.1	837.9	839.8
10°	884.7	880.4	874.2	874.9	874.2
12.5°	934.0	922.3	912.4	908.1	905.0
15°	984.4	961.7	941.3	932.1	928.4
17.5°	1040.5	1001.7	970.3	953.7	950.6
20°	1099.6	1046.0	1005.4	985.7	982.6
22.5°	1167.9	1094.0	1042.3	1015.2	1010.9
25°	1234.4	1137.1	1068.2	1034.9	1029.4
27.5°	1294.7	1169.8	1083.6	1044.2	1038.6
30°	1345.2	1195.6	1096.5	1051.6	1045.4
32.5°	1378.5	1209.8	1100.8	1052.2	1044.8
35°	1388.9	1200.5	1082.3	1026.3	1020.2
37.5°	1366.8	1163.0	1033.1	969.7	964.7
40°	1316.3	1093.4	955.5	889.6	883.5
42.5°	1237.5	1005.4	865.6	796.1	790.5
45°	1150.1	911.2	770.2	700.6	695.1
47.5°	1054.6	811.4	669.8	605.8	597.2
50°	950.0	703.1	567.6	504.8	496.8
52.5°	827.5	584.9	459.3	402.6	397.7
55°	684.0	466.1	365.7	324.5	319.5
57.5°	531.9	354.6	290.6	270.3	262.3
60°	386.0	269.7	231.5	221.6	217.3
62.5°	262.3	201.3	186.5	183.5	180.4
65°	177.9	157.6	153.3	153.9	152.1
67.5°	140.4	132.4	129.9	131.1	130.5
70°	123.1	117.0	116.4	117.6	117.0
72.5°	116.4	108.4	109.6	111.4	110.8
75°	113.3	104.7	107.1	108.4	105.3
77.5°	110.2	99.1	106.5	109.0	102.8
80°	105.9	94.2	111.4	110.2	98.5
82.5°	96.7	83.1	109.0	99.7	88.7
85°	78.8	62.2	122.5	88.0	64.6
87.5°	50.5	37.6	85.0	67.1	43.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)