

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: P146364

Luminaire Tested: **LDRL-T2-F05-E-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P146364  
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-F05-E-7030  
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2  
Light Source: (35) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11304.5 lumens  
Efficiency: N/A  
Efficacy: 84.8 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G3

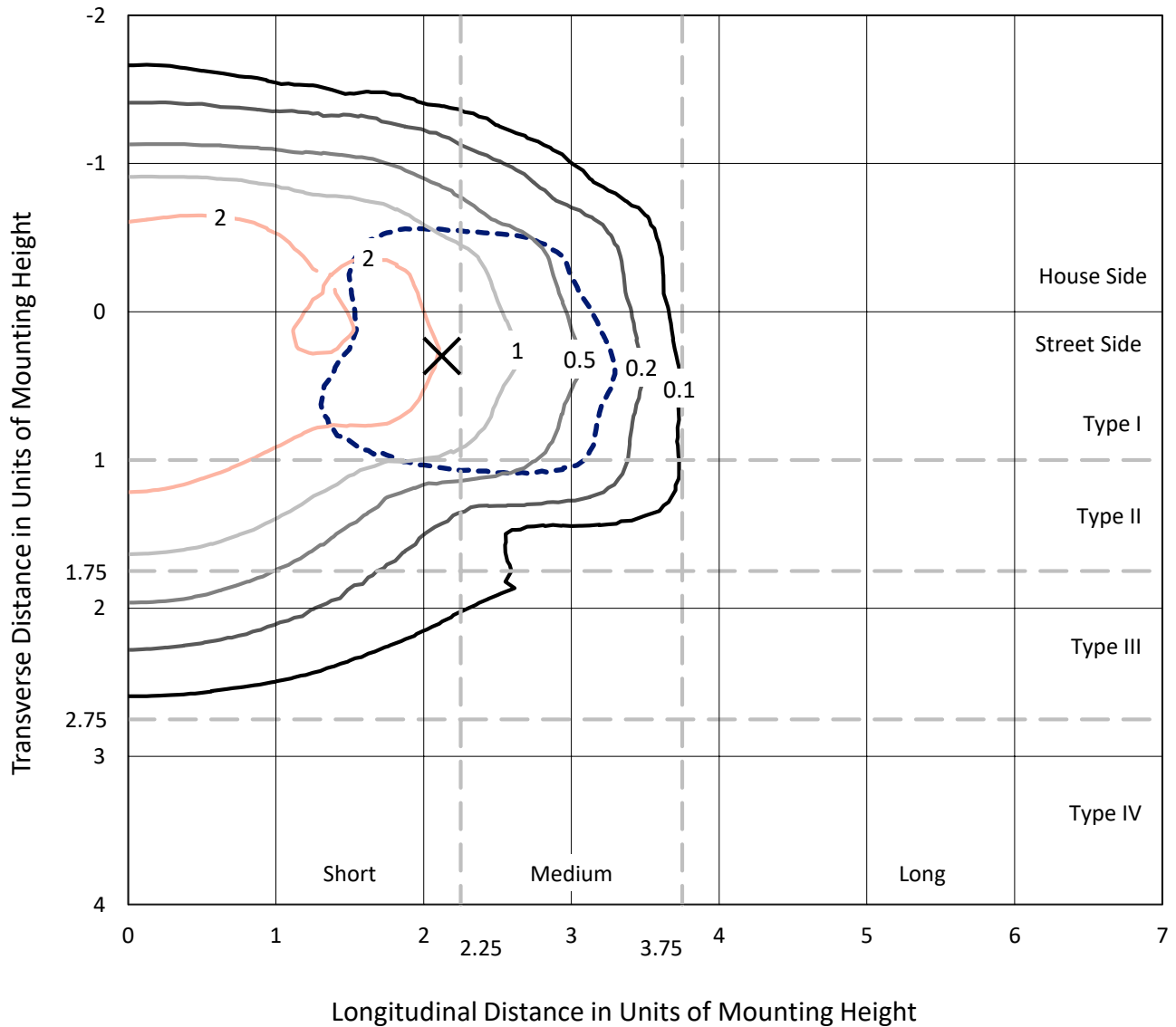
Input Watts (W): 133.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

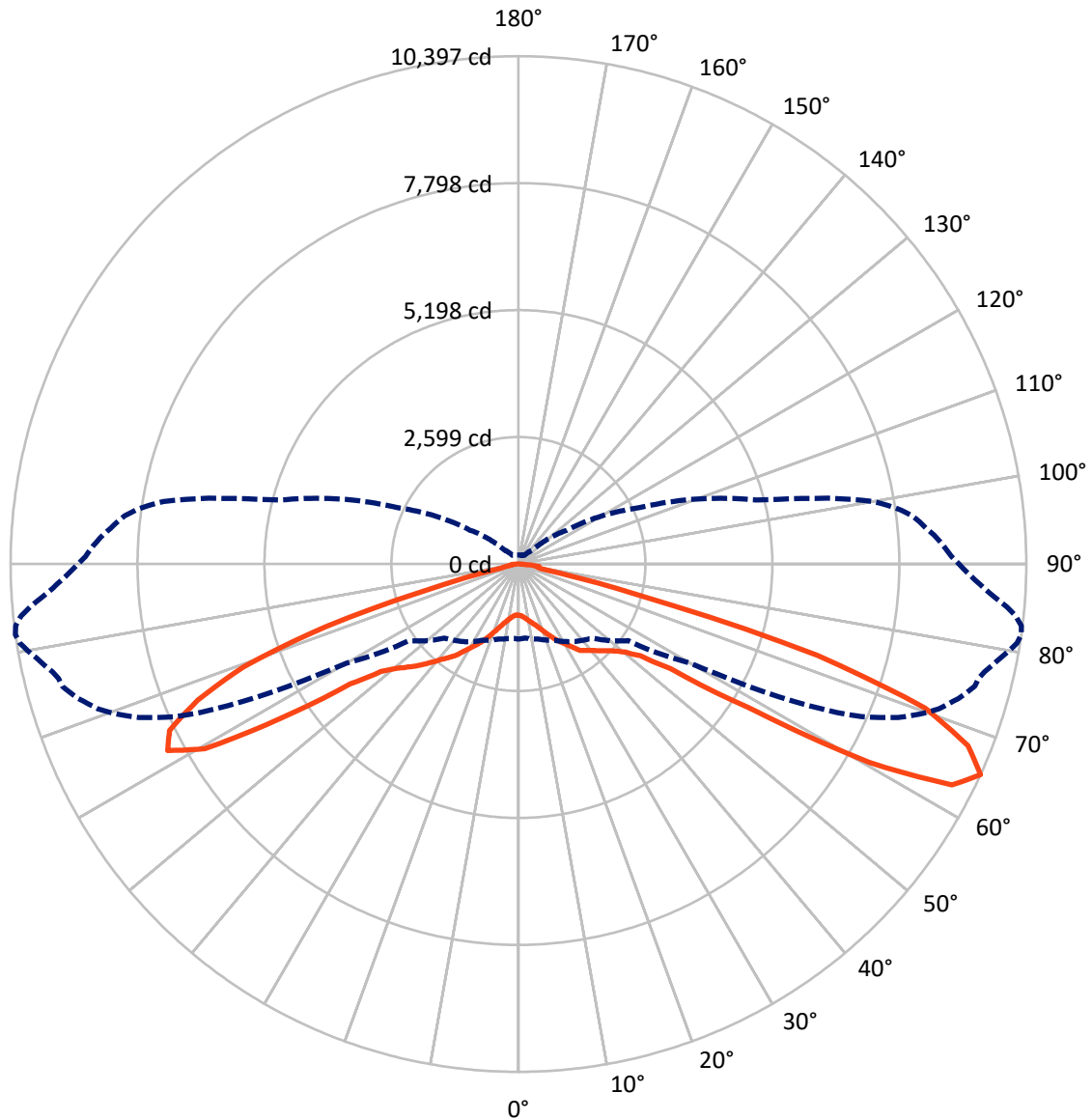
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.4 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	4161.3	0.0	4161.3
	% Fixture	36.8	0.0	36.8
<b>Street Side</b>	Lumens	7143.2	0.0	7143.2
	% Fixture	63.2	0.0	63.2
<b>Total</b>	Lumens	11304.5	0.0	11304.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.3	0.9
10°-20°	374.4	3.3
20°-30°	742.5	6.6
30°-40°	1267.0	11.2
40°-50°	1899.9	16.8
50°-60°	2644.5	23.4
60°-70°	3038.2	26.9
70°-80°	1048.4	9.3
80°-90°	183.4	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°	11304.5	100.0
0°-180°	11304.5	100.0



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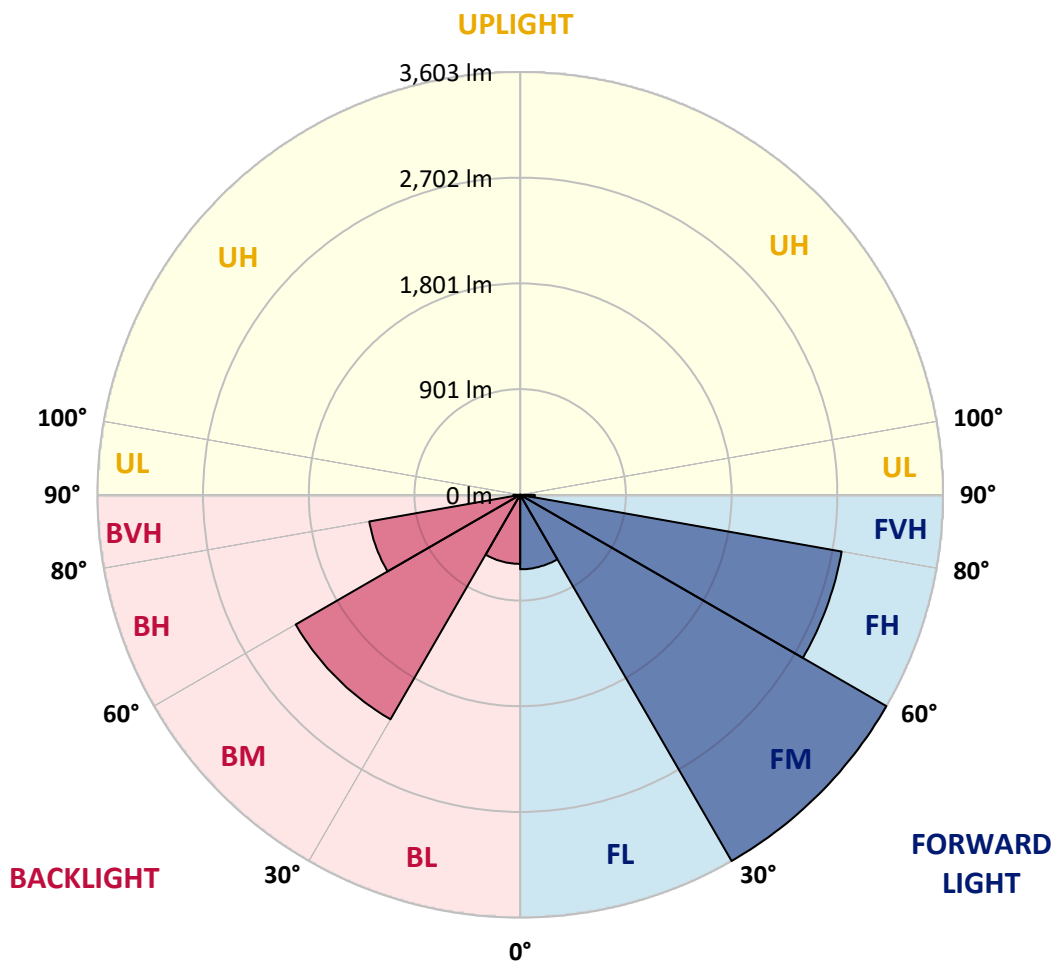
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	634.6	5.6			
FM	(30°-60°)	3602.9	31.9			
FH	(60°-80°)	2781.3	24.6			G2/5000
FVH	(80°-90°)	124.5	1.1			G2/225
BL	(0°-30°)	588.6	5.2	B2/1000		
BM	(30°-60°)	2208.5	19.5	B2/2500		
BH	(60°-80°)	1305.3	11.5	B3/2500		G3/2500
BVH	(80°-90°)	58.8	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3
2.5°	1105.4	1104.6	1103.8	1100.8	1099.3	1093.3	1087.3	1083.5	1080.5	1082.0	1077.5
5°	1169.4	1169.4	1166.4	1162.7	1158.1	1149.8	1134.8	1127.2	1125.7	1125.7	1120.4
7.5°	1235.0	1239.6	1231.3	1228.3	1220.7	1207.9	1190.6	1180.8	1177.7	1177.7	1173.2
10°	1318.0	1315.7	1306.7	1300.6	1285.6	1268.2	1244.8	1233.5	1229.0	1232.8	1225.2
12.5°	1405.4	1404.7	1391.1	1379.8	1358.7	1330.8	1299.9	1284.8	1281.8	1281.8	1277.3
15°	1494.4	1495.2	1480.1	1459.0	1425.8	1388.1	1353.4	1339.1	1335.3	1333.8	1328.5
17.5°	1562.3	1569.8	1554.7	1527.6	1486.9	1445.4	1408.5	1394.1	1393.4	1391.9	1385.8
20°	1600.7	1602.2	1593.9	1574.3	1538.1	1498.2	1472.5	1465.8	1465.0	1465.8	1467.3
22.5°	1599.2	1601.5	1598.5	1590.9	1567.6	1545.7	1542.7	1546.4	1548.7	1546.4	1551.7
25°	1587.2	1590.2	1590.2	1593.9	1587.9	1595.5	1619.6	1630.1	1630.9	1632.4	1643.7
27.5°	1613.5	1616.6	1615.8	1622.6	1627.9	1654.3	1698.0	1716.8	1719.1	1724.4	1734.9
30°	1735.7	1736.4	1722.9	1722.1	1727.4	1748.5	1793.0	1814.9	1812.6	1823.2	1829.9
32.5°	1928.7	1934.7	1921.2	1906.8	1904.6	1907.6	1915.9	1931.0	1928.7	1934.0	1943.0
35°	2148.9	2149.6	2142.1	2150.4	2154.9	2134.6	2095.3	2091.6	2079.5	2081.8	2084.8
37.5°	2351.0	2356.2	2370.6	2423.3	2453.5	2403.7	2326.8	2278.6	2271.0	2267.3	2240.9
40°	2540.2	2566.6	2601.3	2669.9	2711.4	2729.5	2620.1	2522.9	2496.5	2485.9	2444.4
42.5°	2761.9	2775.4	2816.2	2894.6	2949.6	3031.8	2958.7	2851.6	2820.7	2775.4	2723.4
45°	2949.6	2958.7	2984.3	3050.7	3166.0	3303.2	3311.5	3236.9	3212.8	3167.5	3091.4
47.5°	3075.5	3074.8	3093.6	3158.5	3308.5	3518.1	3642.5	3639.5	3611.6	3595.8	3531.0
50°	3124.5	3123.8	3135.9	3208.2	3371.9	3646.3	3920.8	4015.0	4014.3	4020.3	3987.1
52.5°	3133.6	3132.8	3134.4	3192.4	3359.0	3690.8	4121.3	4343.8	4376.2	4416.9	4453.8
55°	3065.7	3073.3	3089.9	3150.9	3310.8	3672.7	4269.9	4652.1	4729.8	4812.7	4947.0
57.5°	2908.9	2923.2	2980.5	3089.9	3259.5	3628.2	4373.2	5033.7	5191.2	5391.8	5755.2
60°	2684.2	2697.0	2776.2	2921.0	3110.2	3434.4	4253.3	5193.5	5492.8	5841.2	6586.1
62.5°	2286.9	2323.1	2365.3	2467.8	2666.1	2927.0	3714.9	4923.6	5387.3	5898.5	6923.9
65°	1535.9	1520.8	1590.9	1721.4	1939.3	2142.1	2737.0	4061.0	4647.6	5351.1	6620.1
67.5°	950.8	953.0	1000.5	1128.0	1292.3	1449.9	1734.9	2588.5	3108.7	3777.5	5303.6
70°	785.7	794.7	833.2	951.5	1091.8	1269.7	1287.8	1372.3	1605.3	1928.7	3276.1
72.5°	623.6	627.3	666.5	765.3	963.6	1207.9	1529.1	1042.8	1024.7	1073.7	1661.8
75°	386.8	389.8	409.4	472.8	625.1	941.0	1683.7	1198.8	1123.5	1060.1	1070.7
77.5°	199.8	205.8	216.4	245.0	328.0	525.5	1325.5	1520.1	1434.1	1348.1	1180.0
80°	113.1	113.1	122.9	129.7	155.3	214.1	674.1	1645.2	1797.5	1834.5	1647.5
82.5°	50.5	56.5	76.2	81.4	89.0	98.0	223.2	988.5	1371.5	1713.1	2117.2
85°	30.2	29.4	48.3	52.8	55.0	46.7	83.7	403.4	640.9	938.0	1403.2
87.5°	12.1	12.8	20.4	21.9	25.6	18.8	31.7	86.7	127.4	184.7	260.9
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):**

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3
2.5°	1076.7	1076.7	1075.9	1075.2	1074.4	1072.2	1071.4	1069.9	1069.2	1066.9	1066.1
5°	1119.7	1117.4	1116.7	1115.2	1114.4	1111.4	1111.4	1108.4	1106.1	1103.1	1102.3
7.5°	1171.0	1167.9	1165.7	1164.2	1163.4	1158.1	1158.1	1153.6	1152.9	1149.1	1147.6
10°	1223.0	1220.7	1217.7	1216.2	1215.4	1212.4	1209.4	1206.4	1204.1	1201.9	1198.8
12.5°	1275.0	1270.5	1269.0	1266.7	1265.2	1262.9	1262.2	1255.4	1255.4	1253.1	1250.1
15°	1325.5	1324.8	1319.5	1318.7	1317.2	1318.0	1313.5	1314.2	1311.9	1308.2	1306.7
17.5°	1387.3	1382.1	1384.3	1380.6	1381.3	1379.8	1378.3	1377.5	1379.1	1378.3	1379.8
20°	1464.3	1462.7	1465.0	1459.7	1465.0	1465.8	1464.3	1468.0	1466.5	1468.0	1463.5
22.5°	1555.5	1550.2	1550.2	1554.0	1556.2	1563.0	1559.3	1562.3	1565.3	1567.6	1564.5
25°	1647.5	1646.0	1649.0	1652.0	1656.5	1662.6	1661.0	1661.8	1667.8	1671.6	1672.4
27.5°	1741.0	1741.0	1750.0	1750.0	1756.1	1762.8	1765.1	1768.1	1772.6	1777.9	1777.9
30°	1837.5	1837.5	1845.8	1853.3	1856.3	1864.6	1869.1	1873.7	1882.0	1883.5	1890.3
32.5°	1947.6	1949.8	1958.1	1962.6	1969.4	1979.2	1980.7	1986.0	1995.8	1998.8	2004.1
35°	2090.8	2083.3	2090.8	2099.1	2102.9	2099.9	2116.5	2123.2	2130.0	2133.8	2140.6
37.5°	2238.6	2225.8	2226.5	2225.0	2216.0	2221.3	2221.3	2219.8	2224.3	2223.5	2226.5
40°	2425.6	2403.0	2396.2	2381.9	2362.3	2351.7	2340.4	2338.9	2327.6	2332.1	2323.8
42.5°	2682.0	2648.0	2629.9	2585.4	2561.3	2532.7	2504.8	2480.6	2467.8	2453.5	2442.9
45°	3034.1	2994.1	2950.4	2878.7	2837.3	2780.0	2743.0	2688.0	2651.0	2620.1	2598.3
47.5°	3475.9	3408.8	3373.4	3306.3	3233.9	3147.2	3068.0	2991.1	2928.5	2860.7	2807.1
50°	3989.4	3905.7	3877.8	3788.8	3748.1	3650.8	3566.4	3471.4	3373.4	3270.8	3172.8
52.5°	4444.0	4434.2	4445.5	4386.0	4384.5	4335.5	4242.0	4131.1	4039.9	3936.6	3807.7
55°	4989.2	5086.4	5107.6	5099.3	5143.7	5142.2	5133.2	5121.9	5049.5	4903.2	4858.7
57.5°	5951.3	6060.6	6222.0	6295.1	6456.4	6475.3	6624.6	6566.5	6677.4	6647.2	6667.6
60°	6930.7	7266.2	7572.4	7805.3	8031.5	8237.4	8489.2	8597.0	8677.7	8803.6	8936.3
62.5°	7368.8	7791.8	8156.7	8488.5	8769.7	9030.6	9247.0	9452.1	9613.4	9758.2	9869.8
65°	7191.6	7682.4	8038.3	8384.4	8646.8	8889.6	9104.5	9258.3	9418.9	9550.1	9668.5
67.5°	5987.5	6641.2	7105.6	7498.5	7828.0	8104.7	8327.9	8539.7	8653.6	8796.8	8860.9
70°	3966.0	4804.4	5461.2	5992.0	6514.5	6828.2	7092.8	7339.4	7469.1	7585.2	7656.8
72.5°	2178.3	2751.3	3452.5	4083.6	4585.8	4997.5	5305.9	5539.6	5673.0	5772.6	5669.3
75°	1234.3	1517.0	1860.1	2209.2	2590.0	2880.3	2961.7	3061.2	3084.6	3033.3	2900.6
77.5°	1134.8	1134.8	1135.5	1127.2	1143.8	1164.2	1152.1	1131.7	1039.8	1019.4	990.7
80°	1475.6	1315.0	1143.1	938.7	765.3	645.4	608.5	611.5	640.9	698.2	761.5
82.5°	2091.6	1933.2	1685.2	1373.8	1093.3	858.0	703.5	632.6	631.8	689.2	771.3
85°	1525.3	1538.1	1483.1	1311.9	1046.5	824.1	665.8	511.2	461.4	461.4	455.4
87.5°	266.9	275.2	237.5	212.6	148.5	104.8	94.2	82.9	82.2	85.2	78.4
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°	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3
2.5°	1066.1	1064.6	1063.1	1062.4	1062.4	1060.9	1060.9	1059.4	1060.1	1059.4	1057.1
5°	1100.8	1100.1	1097.8	1094.0	1093.3	1090.3	1091.0	1088.0	1088.0	1086.5	1082.7
7.5°	1144.6	1143.1	1141.5	1138.5	1135.5	1135.5	1130.2	1130.2	1126.5	1125.0	1121.9
10°	1196.6	1192.1	1189.8	1186.8	1186.0	1185.3	1180.0	1180.0	1175.5	1174.7	1172.5
12.5°	1247.9	1244.8	1242.6	1241.1	1237.3	1236.5	1234.3	1232.0	1229.8	1228.3	1227.5
15°	1303.7	1302.1	1299.9	1299.9	1299.9	1296.1	1293.9	1292.3	1292.3	1290.1	1291.6
17.5°	1376.0	1378.3	1375.3	1373.8	1371.5	1375.3	1371.5	1371.5	1373.8	1373.8	1368.5
20°	1465.8	1468.8	1465.8	1466.5	1465.0	1465.8	1466.5	1468.0	1471.0	1465.8	1466.5
22.5°	1565.3	1566.0	1568.3	1566.0	1569.8	1567.6	1572.1	1575.8	1575.1	1573.6	1574.3
25°	1673.9	1671.6	1672.4	1679.1	1684.4	1682.9	1683.7	1689.7	1688.2	1686.7	1687.4
27.5°	1783.9	1782.4	1784.7	1790.7	1796.8	1796.0	1794.5	1799.0	1799.0	1795.3	1796.8
30°	1893.3	1895.5	1899.3	1899.3	1902.3	1905.3	1903.1	1908.4	1909.1	1906.1	1909.9
32.5°	2008.6	2013.2	2011.7	2022.2	2022.2	2023.0	2025.2	2024.5	2032.0	2026.0	2028.2
35°	2147.4	2148.9	2157.9	2165.5	2170.0	2173.8	2173.8	2176.0	2179.8	2176.8	2181.3
37.5°	2231.8	2234.8	2237.9	2242.4	2242.4	2242.4	2246.1	2246.9	2249.2	2248.4	2249.9
40°	2324.6	2325.3	2326.1	2326.8	2329.8	2331.3	2327.6	2332.9	2329.1	2330.6	2332.9
42.5°	2436.9	2426.4	2427.9	2425.6	2430.9	2424.1	2425.6	2431.6	2428.6	2433.1	2433.1
45°	2567.3	2555.3	2544.7	2538.7	2538.7	2529.6	2531.2	2533.4	2537.2	2543.2	2553.8
47.5°	2760.4	2718.9	2698.5	2677.4	2666.9	2655.6	2659.3	2660.1	2661.6	2671.4	2697.8
50°	3076.3	3006.9	2953.4	2889.3	2865.2	2845.6	2834.3	2835.0	2835.0	2855.4	2881.8
52.5°	3687.0	3558.1	3430.7	3319.1	3223.3	3177.3	3123.8	3110.2	3111.0	3128.3	3146.4
55°	4741.9	4564.7	4429.7	4181.6	4106.2	3894.4	3782.8	3718.7	3668.9	3693.1	3719.4
57.5°	6634.4	6470.8	6363.7	6067.4	5797.5	5720.5	5537.3	5388.8	5327.7	5256.8	5261.4
60°	8955.9	8871.5	8844.3	8670.9	8573.7	8271.3	8247.2	8059.4	7882.2	7729.2	7791.8
62.5°	9955.7	9994.9	10026.6	10087.7	10111.1	10082.4	9961.0	9878.1	9732.5	9532.0	9409.1
65°	9703.1	9792.9	9927.8	10055.3	10207.6	10334.2	10396.8	10372.7	10241.5	10034.9	9777.0
67.5°	8906.9	8998.2	9114.3	9275.6	9508.6	9755.2	9927.1	10036.4	9932.4	9746.1	9483.7
70°	7653.0	7742.0	7745.8	7971.2	8222.3	8532.9	8837.6	8952.2	8833.8	8709.4	8490.0
72.5°	5731.9	5678.3	5728.1	5769.6	5912.8	6108.9	6404.4	6391.6	6210.6	6114.1	5777.1
75°	2694.0	2657.8	2605.0	2570.4	2537.2	2467.8	2501.0	2359.2	2310.2	2329.8	2038.8
77.5°	968.9	919.1	839.2	761.5	663.5	549.7	463.7	407.2	379.3	380.0	362.7
80°	812.8	836.9	825.6	748.7	638.6	519.5	389.1	294.8	251.8	233.7	222.4
82.5°	881.4	1002.8	1063.1	1015.6	858.0	660.5	425.3	257.1	188.5	161.4	154.6
85°	488.6	489.3	474.3	453.2	401.9	276.0	184.0	122.1	98.0	87.5	84.4
87.5°	82.9	79.2	79.2	73.9	64.8	63.3	56.5	53.5	47.5	43.7	42.2
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):**

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3
2.5°	1054.8	1053.3	1052.6	1051.8	1051.8	1051.1	1051.1	1049.6	1048.1	1047.3	1046.5
5°	1079.0	1077.5	1075.9	1074.4	1074.4	1072.9	1071.4	1069.9	1067.7	1063.9	1063.1
7.5°	1119.7	1116.7	1116.7	1111.4	1111.4	1108.4	1106.1	1106.1	1103.1	1097.1	1096.3
10°	1170.2	1164.9	1162.7	1159.6	1158.1	1155.1	1155.1	1152.1	1150.6	1148.3	1140.8
12.5°	1224.5	1220.7	1219.2	1215.4	1213.2	1213.2	1211.7	1206.4	1210.2	1204.9	1201.1
15°	1290.1	1289.3	1282.5	1284.8	1284.1	1283.3	1284.1	1279.5	1278.8	1278.8	1274.2
17.5°	1372.3	1366.2	1367.0	1367.0	1368.5	1368.5	1362.5	1365.5	1366.2	1364.7	1363.2
20°	1468.8	1466.5	1468.8	1464.3	1468.8	1468.8	1471.8	1471.0	1471.8	1473.3	1473.3
22.5°	1572.1	1578.1	1578.9	1580.4	1575.1	1584.1	1584.1	1585.6	1589.4	1589.4	1590.9
25°	1697.2	1694.2	1690.5	1695.7	1697.2	1703.3	1704.8	1704.8	1710.8	1710.8	1713.1
27.5°	1801.3	1804.3	1803.6	1806.6	1805.1	1813.4	1816.4	1825.4	1823.2	1827.7	1833.7
30°	1908.4	1914.4	1911.4	1912.1	1915.9	1921.2	1927.2	1936.3	1937.8	1949.8	1952.8
32.5°	2032.0	2036.5	2040.3	2041.8	2041.8	2050.9	2060.7	2063.7	2079.5	2088.6	2099.1
35°	2188.8	2189.6	2191.9	2194.1	2192.6	2202.4	2212.2	2215.2	2231.8	2234.1	2255.9
37.5°	2255.2	2256.7	2265.8	2270.3	2273.3	2285.4	2303.5	2317.0	2335.1	2352.5	2377.3
40°	2338.1	2347.2	2355.5	2362.3	2373.6	2390.2	2418.1	2431.6	2458.8	2491.2	2515.3
42.5°	2442.9	2459.5	2465.6	2478.4	2506.3	2526.6	2554.5	2583.9	2620.1	2659.3	2688.0
45°	2567.3	2583.2	2605.8	2620.1	2652.5	2685.0	2729.5	2755.1	2792.0	2837.3	2868.9
47.5°	2718.1	2740.0	2762.6	2792.0	2830.5	2864.4	2908.9	2942.1	2979.0	3016.0	3050.7
50°	2905.9	2938.3	2968.5	2999.4	3050.7	3079.3	3123.0	3157.7	3192.4	3229.4	3261.0
52.5°	3158.5	3207.5	3245.9	3267.1	3336.4	3365.1	3418.6	3442.7	3471.4	3504.6	3545.3
55°	3709.6	3785.8	3850.6	3888.3	3993.9	4031.6	4101.0	4136.4	4116.8	4159.0	4232.2
57.5°	5303.6	5397.1	5474.7	5526.0	5633.8	5686.6	5690.4	5823.1	5744.7	5822.3	5833.6
60°	7625.1	7699.0	7680.2	7680.9	7647.0	7598.0	7692.2	7549.0	7609.3	7613.1	7478.1
62.5°	9182.1	9069.0	9016.3	8928.8	8827.0	8748.6	8695.1	8579.7	8487.7	8414.6	8272.1
65°	9548.6	9352.5	9179.1	9015.5	8865.5	8761.4	8648.3	8524.7	8380.6	8259.2	8120.5
67.5°	9194.2	8919.7	8662.6	8447.0	8241.9	8104.7	7941.1	7823.4	7642.5	7482.6	7377.1
70°	8166.5	7786.5	7486.4	7348.4	7144.8	6850.0	6694.0	6546.9	6436.1	6291.3	6227.2
72.5°	5728.8	5259.9	5028.4	5037.4	4830.8	4619.7	4625.0	4535.3	4392.0	4387.5	4365.6
75°	2105.1	1915.1	1781.7	1787.7	1710.8	1628.6	1651.2	1675.4	1628.6	1723.6	1576.6
77.5°	334.8	325.7	322.7	315.9	299.3	311.4	303.1	318.9	321.2	338.5	340.1
80°	213.4	204.3	202.1	198.3	197.5	197.5	196.0	196.0	196.0	196.8	195.3
82.5°	142.5	137.2	136.5	134.2	138.0	138.7	139.5	145.5	150.8	152.3	158.3
85°	77.7	73.9	73.9	72.4	75.4	76.2	82.9	91.2	101.8	106.3	116.1
87.5°	39.2	41.5	40.7	42.2	44.5	49.8	55.0	60.3	66.4	74.6	81.4
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-F05-E-7030

**CANDELA DISTRIBUTION (continued):**

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3
2.5°	1045.0	1044.3	1044.3	1042.8	1042.8	1042.0	1040.5	1039.0	1032.2	1023.9	1018.6
5°	1060.9	1059.4	1058.6	1057.1	1054.8	1054.8	1052.6	1049.6	1036.7	1023.2	1014.9
7.5°	1093.3	1092.5	1090.3	1087.3	1084.2	1081.2	1079.7	1078.2	1058.6	1045.8	1039.8
10°	1140.0	1139.3	1134.0	1133.3	1128.7	1129.5	1125.7	1122.7	1109.9	1095.6	1087.3
12.5°	1199.6	1202.6	1199.6	1192.8	1194.3	1192.1	1188.3	1184.5	1173.2	1161.9	1149.1
15°	1273.5	1269.7	1266.7	1272.7	1267.5	1266.7	1269.0	1269.7	1256.2	1244.1	1226.0
17.5°	1365.5	1365.5	1364.0	1365.5	1362.5	1364.7	1363.2	1364.7	1358.7	1342.1	1315.7
20°	1470.3	1476.3	1476.3	1474.1	1473.3	1477.8	1480.1	1471.8	1473.3	1459.0	1411.5
22.5°	1592.4	1597.0	1598.5	1596.2	1597.0	1603.0	1606.8	1600.7	1614.3	1590.9	1517.8
25°	1718.4	1725.1	1722.1	1722.9	1728.9	1735.7	1742.5	1736.4	1762.8	1726.6	1630.9
27.5°	1842.8	1848.8	1847.3	1851.8	1861.6	1870.7	1878.2	1875.9	1919.7	1872.2	1750.0
30°	1960.4	1974.7	1977.7	1983.0	1995.1	2010.1	2022.2	2021.5	2078.0	2013.9	1847.3
32.5°	2105.1	2121.0	2127.0	2138.3	2161.7	2172.3	2187.3	2188.8	2245.4	2138.3	1929.5
35°	2272.5	2288.4	2301.2	2309.5	2335.9	2348.7	2363.8	2370.6	2408.3	2254.4	1986.8
37.5°	2402.2	2415.8	2440.7	2458.0	2481.4	2507.0	2524.4	2532.7	2553.8	2354.0	2013.2
40°	2544.0	2573.4	2597.5	2623.9	2649.5	2669.9	2685.7	2698.5	2690.2	2436.9	2001.9
42.5°	2723.4	2754.3	2786.8	2809.4	2823.0	2850.1	2857.6	2866.7	2798.8	2474.6	1950.6
45°	2910.4	2935.3	2962.4	2979.0	2997.1	3010.7	3013.0	3013.7	2879.5	2452.7	1857.8
47.5°	3090.6	3111.7	3130.6	3139.6	3148.7	3149.4	3145.7	3139.6	2922.5	2378.8	1746.2
50°	3288.2	3301.0	3309.3	3310.0	3318.3	3302.5	3291.9	3264.0	2918.0	2265.8	1628.6
52.5°	3572.4	3569.4	3558.8	3558.1	3531.7	3501.5	3481.9	3442.0	2887.0	2143.6	1492.9
55°	4225.4	4196.7	4229.9	4145.5	4075.3	4028.6	3917.8	3837.1	2918.0	2029.8	1336.8
57.5°	5794.4	5696.4	5707.0	5570.5	5421.2	5141.5	4976.4	4753.2	3160.7	1966.4	1140.0
60°	7449.5	7288.1	7135.8	6893.8	6576.3	6221.2	5901.5	5552.4	3402.0	1888.8	930.4
62.5°	8132.6	7924.5	7659.8	7318.3	6910.4	6470.0	6028.2	5630.1	3269.3	1655.0	670.3
65°	7912.4	7663.6	7381.6	6936.0	6473.0	5961.1	5477.0	5056.3	2722.7	1210.2	404.9
67.5°	7130.5	6916.4	6568.8	6148.1	5575.0	5061.6	4582.8	4193.7	2007.1	748.0	232.2
70°	6004.1	5707.7	5410.7	5006.5	4402.6	3918.5	3472.9	3129.1	1273.5	369.5	171.2
72.5°	4143.9	3909.5	3671.9	3310.0	2859.1	2525.9	2142.8	1860.1	666.5	199.1	157.6
75°	1614.3	1588.7	1561.5	1397.1	1244.1	996.8	875.4	789.4	277.5	172.7	155.3
77.5°	354.4	375.5	387.6	367.2	349.9	312.2	298.6	266.9	185.5	177.2	153.8
80°	195.3	195.3	195.3	197.5	193.8	193.8	191.5	187.7	173.4	177.2	150.8
82.5°	159.8	162.1	165.1	165.9	165.1	165.9	164.4	163.6	169.6	177.9	143.3
85°	122.1	129.7	134.2	140.2	146.3	150.0	151.6	152.3	156.1	168.9	125.2
87.5°	86.7	92.7	102.5	104.1	110.8	119.1	122.1	126.7	124.4	128.2	58.8
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: P146364

CATALOG NUMBER: LDRL-T2-F05-E-7030

**CANDELA DISTRIBUTION (continued):**

	145°	155°	165°	175°	180°
0°	1047.3	1047.3	1047.3	1047.3	1047.3
2.5°	1014.1	1008.1	1005.8	1005.1	1003.6
5°	1008.1	1004.3	1001.3	999.0	1000.5
7.5°	1035.2	1033.0	1027.7	1026.2	1028.4
10°	1083.5	1078.2	1070.7	1071.4	1070.7
12.5°	1143.8	1129.5	1117.4	1112.1	1108.4
15°	1205.6	1177.7	1152.9	1141.5	1137.0
17.5°	1274.2	1226.7	1188.3	1167.9	1164.2
20°	1346.6	1281.0	1231.3	1207.1	1203.4
22.5°	1430.3	1339.8	1276.5	1243.3	1238.1
25°	1511.8	1392.6	1308.2	1267.5	1260.7
27.5°	1585.6	1432.6	1327.0	1278.8	1272.0
30°	1647.5	1464.3	1342.9	1287.8	1280.3
32.5°	1688.2	1481.6	1348.1	1288.6	1279.5
35°	1701.0	1470.3	1325.5	1256.9	1249.4
37.5°	1673.9	1424.3	1265.2	1187.5	1181.5
40°	1612.0	1339.1	1170.2	1089.5	1082.0
42.5°	1515.5	1231.3	1060.1	974.9	968.1
45°	1408.5	1115.9	943.2	858.0	851.3
47.5°	1291.6	993.8	820.3	741.9	731.4
50°	1163.4	861.1	695.2	618.3	608.5
52.5°	1013.4	716.3	562.5	493.1	487.1
55°	837.7	570.8	447.9	397.4	391.3
57.5°	651.5	434.3	355.9	331.0	321.2
60°	472.8	330.2	283.5	271.4	266.2
62.5°	321.2	246.6	228.5	224.7	220.9
65°	217.9	193.0	187.7	188.5	186.2
67.5°	171.9	162.1	159.1	160.6	159.8
70°	150.8	143.3	142.5	144.0	143.3
72.5°	142.5	132.7	134.2	136.5	135.7
75°	138.7	128.2	131.2	132.7	128.9
77.5°	135.0	121.4	130.4	133.5	125.9
80°	129.7	115.4	136.5	135.0	120.6
82.5°	118.4	101.8	133.5	122.1	108.6
85°	96.5	76.2	150.0	107.8	79.2
87.5°	61.8	46.0	104.1	82.2	52.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)