

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: P145729

Luminaire Tested: **LDRL-SLL-E02-E-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P145729  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33704)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: LDRL-SLL-E02-E-7030  
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT  
Light Source: (42) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4920.1 lumens  
Efficiency: N/A  
Efficacy: 94.4 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

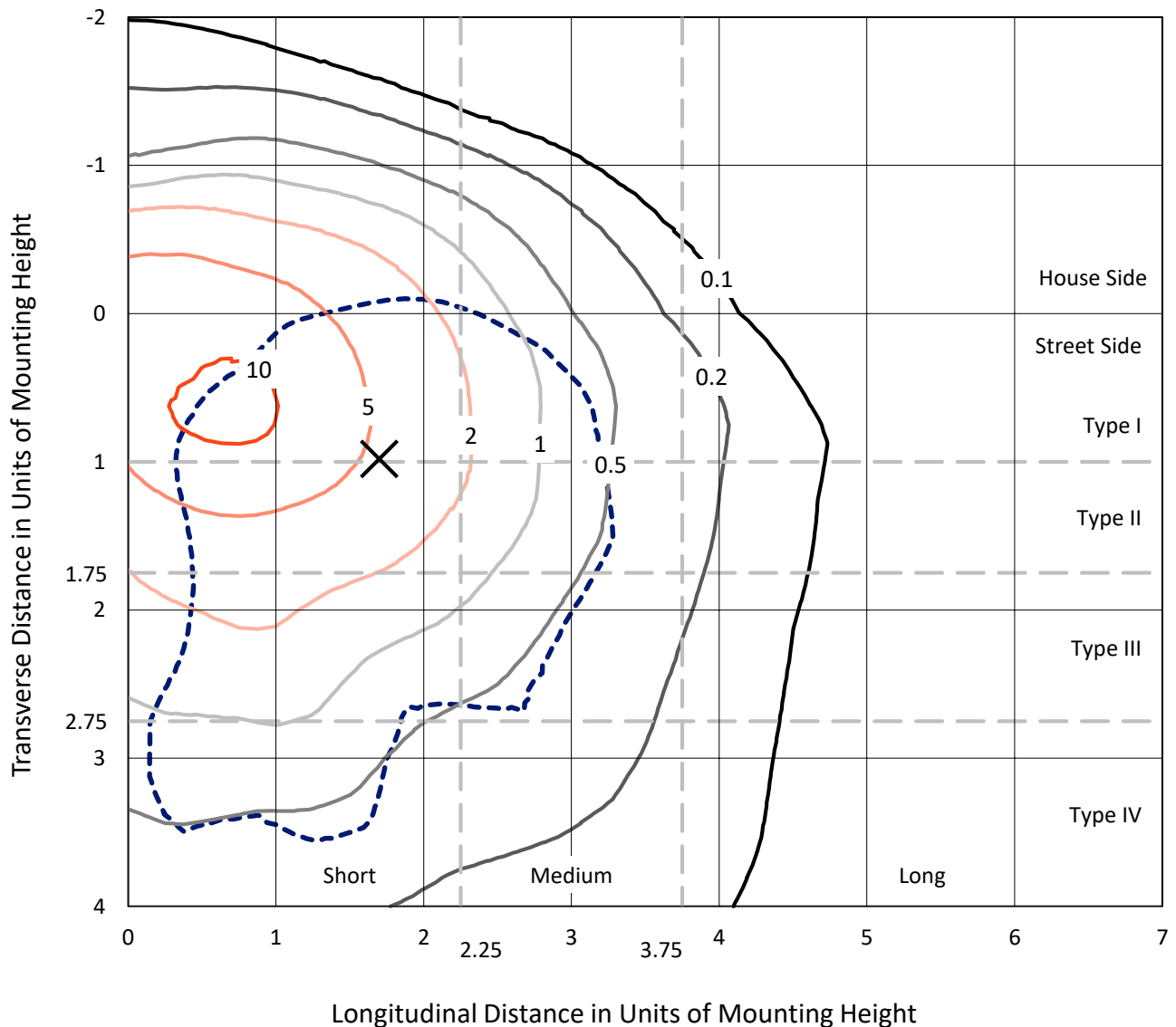
Input Watts (W): 52.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

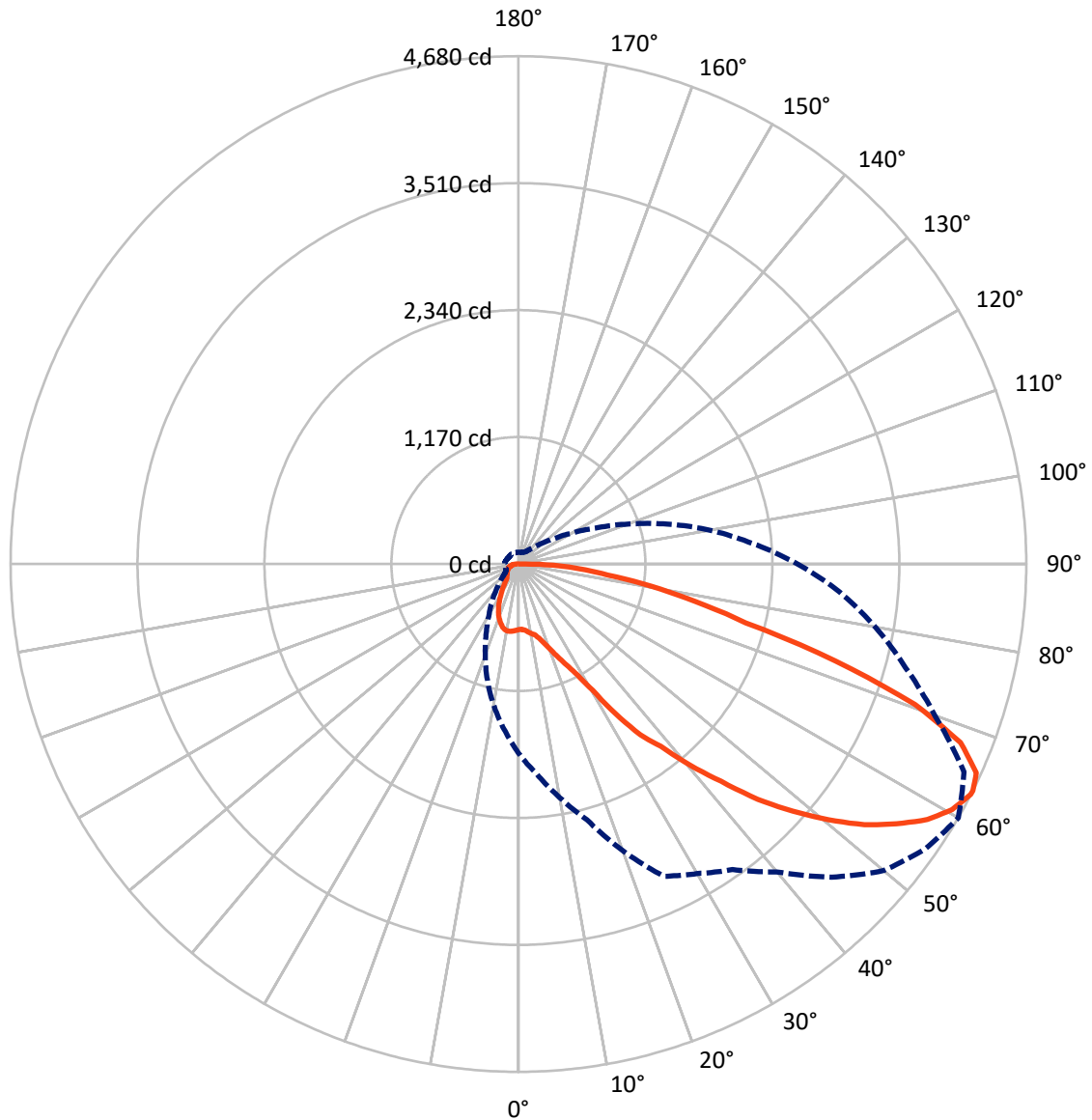
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.3 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1029.9	0.0	1029.9
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	3890.2	0.0	3890.2
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	4920.1	0.0	4920.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.3	1.2
10°-20°	185.2	3.8
20°-30°	327.6	6.7
30°-40°	517.1	10.5
40°-50°	760.4	15.5
50°-60°	1001.7	20.4
60°-70°	1116.5	22.7
70°-80°	733.5	14.9
80°-90°	218.8	4.4
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°	4920.1	100.0
0°-180°	4920.1	100.0



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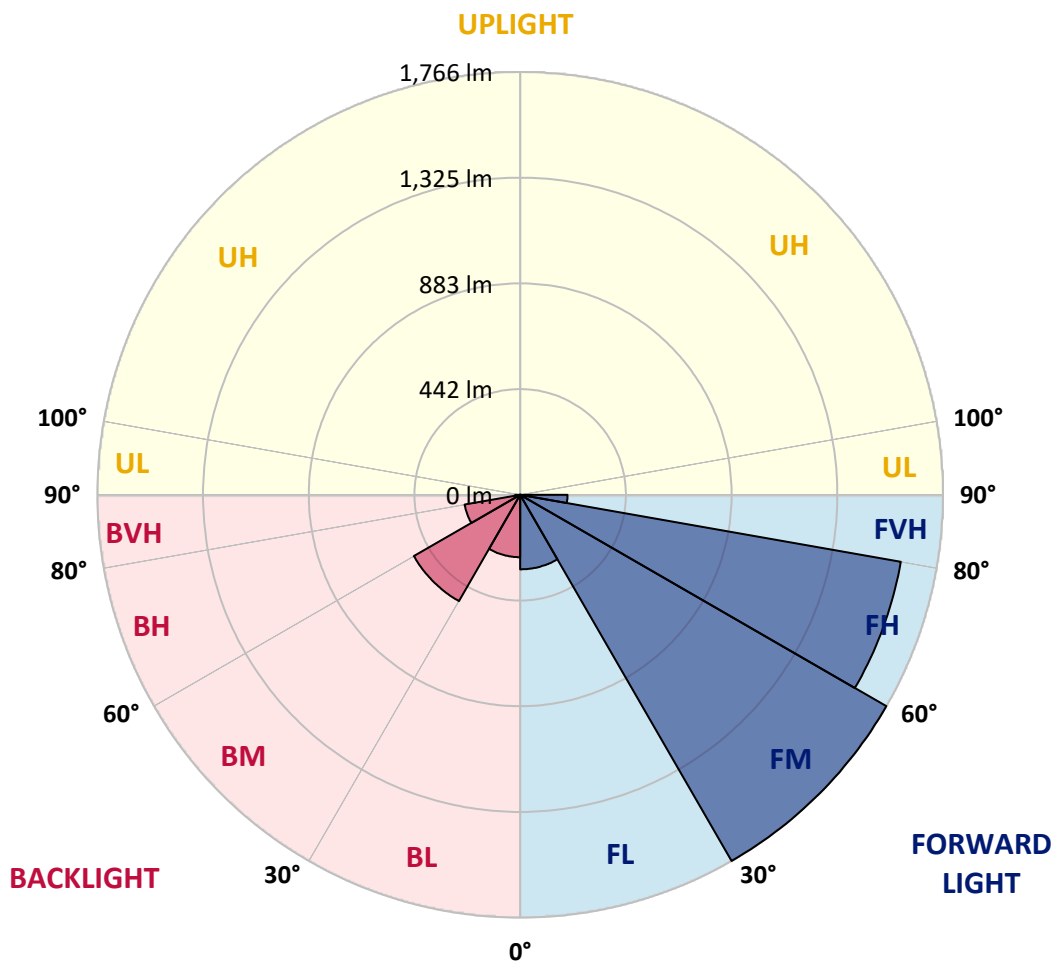
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	311.4	6.3			
FM	(30°-60°)	1766.4	35.9			
FH	(60°-80°)	1614.6	32.8			G1/1800
FVH	(80°-90°)	197.7	4.0			G2/225
BL	(0°-30°)	260.7	5.3	B1/500		
BM	(30°-60°)	512.8	10.4	B1/1000		
BH	(60°-80°)	235.4	4.8	B1/500		G1/500
BVH	(80°-90°)	21.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3
2.5°	603.5	603.9	602.8	602.4	601.7	602.1	602.1	601.3	601.3	601.7	600.6
5°	600.6	601.3	601.0	601.7	602.4	603.5	604.6	605.7	606.8	608.3	608.7
7.5°	597.3	599.5	599.9	602.1	604.6	607.6	611.2	615.2	620.7	622.2	625.5
10°	599.2	603.2	605.4	609.8	613.8	619.3	625.8	629.8	636.8	639.3	644.1
12.5°	613.4	616.3	619.3	624.4	630.2	637.2	644.5	650.7	658.0	660.5	662.4
15°	640.4	643.4	646.7	651.8	658.0	666.4	677.0	684.6	693.4	700.0	704.7
17.5°	678.1	678.1	685.7	687.2	699.3	712.0	725.2	740.2	749.3	754.8	763.6
20°	732.1	732.1	742.4	747.1	757.4	773.8	791.7	808.1	821.3	832.2	840.3
22.5°	825.7	821.6	830.4	829.3	841.7	866.2	883.8	892.9	910.4	917.0	927.6
25°	934.2	948.4	957.9	957.9	963.0	988.2	1002.9	1009.8	1025.9	1021.1	1032.1
27.5°	1067.2	1105.5	1141.0	1155.6	1148.6	1176.4	1181.5	1188.1	1186.3	1174.9	1171.6
30°	1198.0	1265.5	1320.7	1354.3	1393.0	1446.7	1446.7	1455.5	1436.5	1405.1	1386.5
32.5°	1288.6	1375.5	1459.9	1529.7	1595.4	1677.6	1712.3	1760.6	1768.6	1780.7	1739.0
35°	1363.1	1485.1	1575.7	1680.6	1760.9	1844.2	1936.7	2020.3	2075.9	2066.7	2050.3
37.5°	1414.2	1571.0	1697.4	1820.5	1942.9	2038.2	2125.9	2235.2	2341.5	2362.7	2318.1
40°	1450.0	1631.6	1805.5	1956.8	2110.6	2253.8	2360.5	2477.7	2644.3	2714.8	2678.3
42.5°	1467.2	1679.1	1873.1	2065.6	2260.4	2441.2	2574.9	2735.7	2933.3	3053.9	3013.7
45°	1474.5	1708.3	1927.9	2147.1	2380.9	2604.1	2776.6	2958.9	3181.4	3375.0	3382.3
47.5°	1472.7	1724.0	1965.5	2205.2	2475.5	2735.3	2966.6	3173.3	3425.4	3628.9	3704.5
50°	1467.6	1729.5	1988.2	2240.3	2535.1	2831.4	3091.9	3337.7	3619.4	3877.0	3992.1
52.5°	1467.2	1730.6	1999.5	2259.6	2570.2	2890.2	3170.4	3460.9	3769.6	4038.8	4218.2
55°	1476.0	1737.2	2011.9	2273.1	2589.2	2923.5	3214.6	3538.0	3835.0	4140.8	4372.4
57.5°	1511.4	1767.9	2041.5	2296.2	2610.4	2949.8	3249.0	3560.2	3854.3	4183.1	4461.9
60°	1589.2	1825.2	2093.0	2338.5	2665.5	3018.8	3281.5	3528.8	3817.8	4171.1	4474.7
62.5°	1710.5	1917.3	2165.0	2416.7	2777.7	3150.0	3295.0	3456.8	3727.6	4101.7	4419.5
63°	1741.6	1941.8	2184.0	2438.3	2810.2	3174.8	3293.9	3437.9	3702.7	4081.2	4394.7
65°	1871.3	2055.0	2272.4	2541.3	2958.2	3253.7	3254.1	3326.1	3575.9	3968.3	4292.7
67.5°	2066.4	2241.7	2409.8	2677.2	3121.8	3293.2	3136.1	3081.6	3302.7	3729.4	4034.1
70°	2196.4	2413.1	2507.3	2713.0	3144.1	3245.3	2949.4	2767.8	2951.2	3307.8	3578.5
72.5°	2199.7	2446.7	2474.1	2560.3	2935.5	3016.6	2627.9	2382.0	2492.4	2791.6	2934.0
75°	1964.8	2275.3	2219.1	2187.3	2390.4	2425.1	2125.5	2023.3	2164.6	2341.5	2270.2
77.5°	1460.6	1873.5	1759.1	1623.9	1697.7	1702.9	1712.3	1905.2	2078.8	2151.1	2047.4
80°	906.4	1376.2	1288.6	1065.7	1094.2	1178.2	1430.3	1771.2	1961.1	2013.0	1805.5
82.5°	546.5	1012.4	965.6	813.2	849.1	1058.4	1337.1	1431.4	1495.3	1490.6	1276.1
85°	400.4	687.6	751.1	762.5	889.6	1027.7	1021.9	952.1	913.0	803.4	685.7
87.5°	126.0	354.7	420.9	490.7	537.4	508.6	500.2	432.2	309.4	261.6	287.5
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3
2.5°	600.6	602.1	602.8	602.4	602.8	602.8	605.0	604.3	605.0	604.6	606.8
5°	609.8	611.9	613.8	613.8	614.1	614.9	617.8	617.8	619.3	622.2	623.6
7.5°	627.7	630.6	630.9	631.7	633.9	632.8	634.6	635.3	636.4	637.9	639.7
10°	646.3	650.3	650.3	649.9	650.3	647.4	648.5	646.3	646.7	648.8	651.0
12.5°	667.1	669.3	667.8	666.7	666.7	661.3	660.5	657.6	656.2	656.5	657.2
15°	708.8	706.9	706.6	704.7	698.2	694.1	691.2	682.1	677.3	674.8	670.4
17.5°	764.3	765.4	763.6	761.7	752.2	738.7	732.9	723.0	716.4	709.9	701.8
20°	845.4	838.1	837.4	831.5	818.4	799.4	785.1	769.0	759.9	750.4	742.0
22.5°	934.9	927.2	922.1	910.8	891.4	867.3	843.6	823.1	809.2	802.3	796.4
25°	1034.3	1029.9	1021.5	992.6	977.3	949.5	923.6	903.5	887.8	881.9	871.7
27.5°	1153.4	1156.7	1141.0	1113.9	1094.6	1055.5	1033.2	998.5	985.3	964.1	951.0
30°	1370.4	1349.2	1322.5	1281.2	1242.2	1189.5	1152.6	1116.5	1097.1	1068.6	1033.5
32.5°	1725.1	1644.4	1572.8	1485.1	1402.2	1335.0	1281.6	1235.9	1206.4	1159.2	1099.7
35°	2011.2	1933.4	1815.0	1687.5	1578.6	1492.4	1425.2	1382.1	1322.9	1247.6	1161.4
37.5°	2220.9	2131.4	2020.7	1923.2	1804.4	1708.3	1617.4	1527.9	1444.6	1330.6	1220.6
40°	2561.4	2440.1	2257.8	2142.7	2045.5	1915.5	1830.4	1709.8	1583.0	1436.2	1276.9
42.5°	2898.2	2737.5	2572.4	2440.1	2302.0	2161.0	2044.1	1882.2	1713.8	1523.5	1327.3
45°	3289.5	3092.6	2876.7	2691.8	2550.1	2384.2	2234.4	2035.7	1820.9	1595.1	1371.1
47.5°	3597.9	3402.8	3159.1	2972.8	2781.7	2594.6	2400.3	2155.1	1900.5	1653.5	1412.0
50°	3893.4	3705.3	3446.3	3217.6	2998.0	2772.2	2537.3	2239.9	1963.0	1699.2	1444.6
52.5°	4158.7	3991.3	3711.5	3438.2	3192.7	2932.6	2641.4	2319.2	2022.9	1746.3	1470.1
55°	4383.4	4226.6	3975.6	3635.5	3356.7	3068.9	2739.7	2391.5	2086.1	1795.6	1488.8
57.5°	4534.2	4443.6	4175.5	3809.0	3491.6	3185.0	2813.8	2464.2	2145.3	1826.3	1496.8
60°	4604.4	4592.3	4365.4	3965.8	3611.4	3275.6	2907.4	2541.3	2184.4	1840.2	1485.5
62.5°	4589.8	4676.0	4510.1	4073.2	3687.7	3332.3	2967.3	2574.6	2174.5	1806.6	1435.4
63°	4576.3	4679.6	4530.6	4083.8	3694.0	3337.7	2973.1	2570.5	2165.4	1791.6	1418.3
65°	4477.2	4636.5	4535.7	4064.8	3665.5	3322.0	2946.8	2507.3	2074.4	1697.4	1321.1
67.5°	4234.7	4394.3	4338.4	3855.4	3481.0	3153.3	2763.1	2292.1	1851.5	1497.2	1141.0
70°	3733.8	3876.6	3809.8	3384.9	3037.1	2804.7	2433.9	1906.3	1508.5	1203.4	868.4
72.5°	2953.4	3053.9	3068.5	2730.9	2464.6	2325.0	1960.8	1438.0	1101.9	838.1	563.7
75°	2186.9	2163.5	2168.3	1979.8	1871.3	1812.5	1465.7	986.4	742.4	512.2	334.3
77.5°	1838.0	1670.0	1526.8	1474.5	1348.1	1311.6	966.7	605.4	433.3	306.5	190.3
80°	1494.6	1240.0	1031.7	939.3	890.0	897.3	534.9	322.6	226.9	167.0	119.1
82.5°	1021.9	828.2	653.2	567.4	558.6	567.0	278.0	158.2	119.8	96.1	74.9
85°	604.3	568.8	507.8	450.8	431.1	407.0	206.8	113.3	61.7	51.1	42.0
87.5°	261.2	320.8	328.4	327.0	304.3	244.4	76.0	29.2	25.9	13.2	10.6
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3
2.5°	606.8	607.2	606.5	607.2	609.8	609.8	609.4	610.1	610.5	612.7	611.9
5°	625.1	625.5	625.8	628.4	630.2	632.4	631.7	632.4	633.9	634.2	635.0
7.5°	641.9	644.1	647.0	648.1	651.4	652.1	655.4	655.8	656.5	655.1	653.6
10°	653.6	655.8	659.4	661.3	667.1	667.8	670.4	671.1	672.6	671.5	670.4
12.5°	659.4	661.3	665.3	668.9	677.0	679.5	683.9	686.5	688.3	687.2	683.6
15°	671.5	671.1	673.3	676.2	683.6	688.3	694.5	697.8	700.0	698.2	693.4
17.5°	699.3	694.1	694.1	692.3	697.8	698.9	701.5	703.3	702.5	697.1	689.4
20°	737.6	729.9	725.2	720.8	719.0	709.9	705.1	698.5	692.7	682.8	674.1
22.5°	787.3	781.8	770.9	761.0	747.1	728.5	708.4	691.2	678.4	664.9	649.9
25°	862.6	850.1	834.4	811.1	793.2	760.3	726.7	694.1	666.7	645.6	620.3
27.5°	933.4	907.1	877.5	841.0	808.1	764.3	721.5	683.9	648.1	614.1	585.3
30°	992.6	947.0	898.7	847.6	800.8	747.9	698.2	655.4	614.9	574.7	547.3
32.5°	1037.2	971.4	907.1	841.7	784.0	721.9	664.9	619.3	573.2	530.8	499.1
35°	1077.4	988.6	904.6	826.0	757.7	689.0	627.7	576.5	526.1	480.8	444.3
37.5°	1106.2	994.5	893.6	803.4	724.1	648.8	582.4	527.9	473.8	427.8	387.6
40°	1128.5	991.5	872.8	768.7	678.1	599.9	534.9	477.9	423.8	377.8	335.7
42.5°	1143.5	980.6	841.4	729.2	639.7	557.9	494.3	434.4	380.3	332.1	285.7
45°	1162.9	976.2	822.0	699.6	605.0	522.4	454.5	396.0	339.8	289.3	245.1
47.5°	1181.1	973.6	806.3	675.1	573.6	490.3	423.1	361.7	305.1	255.7	215.6
50°	1192.1	969.6	789.9	645.6	538.5	457.4	393.1	331.0	274.0	226.9	191.1
52.5°	1195.4	961.6	768.3	611.9	508.2	429.3	362.4	300.3	245.5	203.1	169.9
55°	1192.8	945.9	739.1	584.5	477.1	398.2	331.4	271.1	221.4	181.6	154.9
57.5°	1180.4	914.4	701.5	549.8	441.7	359.1	293.4	238.2	194.0	162.2	141.8
60°	1152.6	869.1	655.4	501.2	390.9	312.7	250.6	203.1	165.9	142.8	129.3
62.5°	1092.0	803.7	588.6	432.6	323.0	251.0	196.9	161.8	136.6	124.6	116.5
63°	1074.1	781.1	568.8	414.3	311.3	237.1	184.9	153.1	130.4	120.6	114.0
65°	979.8	676.6	480.8	333.2	241.1	179.7	141.0	120.2	108.1	104.5	102.7
67.5°	803.0	526.5	338.3	223.6	161.8	124.2	104.1	96.1	91.7	91.3	92.4
70°	567.4	349.3	209.3	143.2	111.4	93.9	86.2	82.6	80.4	81.1	83.3
72.5°	369.0	205.0	132.3	104.9	90.6	82.6	77.1	76.0	75.3	74.5	75.3
75°	195.1	128.2	100.1	87.7	79.3	72.7	69.0	67.6	68.0	68.0	68.0
77.5°	120.9	97.5	85.5	77.5	70.9	64.3	60.6	59.6	59.9	60.6	61.0
80°	92.8	85.1	75.3	69.4	59.9	54.4	52.6	52.2	53.0	53.0	54.1
82.5°	68.0	65.8	62.1	54.8	47.5	43.8	43.5	44.9	43.5	43.1	43.8
85°	39.8	37.3	40.6	34.7	31.8	29.6	31.1	34.0	35.4	33.6	32.9
87.5°	12.8	8.8	12.8	14.2	12.8	11.0	13.9	16.4	16.8	16.1	18.3
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: P145729

CATALOG NUMBER: LDRL-SLL-E02-E-7030

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3
2.5°	611.6	614.1	611.6	612.7	612.3	611.6	612.7	611.2	610.5	612.7	612.3
5°	634.6	635.0	631.7	632.0	631.7	628.8	628.8	627.3	625.5	625.8	625.1
7.5°	653.2	652.5	649.9	648.8	645.6	643.4	641.9	639.7	638.2	636.8	636.1
10°	667.5	665.6	663.8	660.5	657.2	655.4	651.4	648.1	647.0	644.8	643.4
12.5°	679.9	676.6	673.7	669.7	665.6	662.7	658.0	655.4	653.6	650.7	648.5
15°	686.8	680.6	675.1	668.9	664.6	660.2	654.7	653.6	651.0	648.1	644.1
17.5°	678.4	669.7	659.4	652.9	646.3	639.7	634.2	634.2	633.1	629.8	622.9
20°	661.3	648.1	636.1	625.5	618.9	609.4	606.1	601.0	597.3	591.5	582.7
22.5°	633.1	619.3	603.5	592.9	581.6	571.0	564.5	556.4	553.5	544.0	532.3
25°	601.7	581.6	564.8	550.9	535.2	522.8	513.7	502.7	495.4	486.3	471.7
27.5°	564.5	543.6	524.6	509.3	492.8	475.7	458.9	446.1	432.9	422.3	413.9
30°	524.3	502.7	479.3	461.4	442.4	420.9	407.0	389.8	379.6	367.9	356.9
32.5°	471.7	452.7	425.3	404.4	381.0	364.2	352.9	336.5	324.4	314.6	308.3
35°	413.9	385.4	358.0	342.3	326.2	312.7	297.0	284.2	276.2	266.0	260.5
37.5°	351.1	317.8	294.5	280.6	264.1	257.6	247.7	240.0	232.7	225.8	221.4
40°	294.8	264.1	243.0	231.3	220.3	213.0	206.8	203.5	198.7	193.3	190.0
42.5°	248.1	223.6	202.8	191.8	183.4	182.7	178.7	176.1	174.3	171.0	165.9
45°	211.5	189.2	171.3	162.6	158.9	159.3	159.3	157.1	157.1	156.0	152.7
47.5°	187.1	167.0	153.8	148.0	146.5	146.9	145.8	145.0	145.4	145.0	143.2
50°	168.1	150.9	139.9	137.7	137.4	137.0	135.5	134.4	134.1	134.8	134.4
52.5°	148.7	134.4	128.2	127.5	127.9	127.9	127.5	127.1	127.9	128.6	127.5
55°	137.7	127.5	123.5	123.5	123.5	123.5	123.1	122.8	123.9	124.9	123.1
57.5°	127.5	120.2	118.7	118.7	118.7	118.0	118.0	118.4	119.8	122.0	119.8
60°	119.8	116.2	116.2	116.5	116.2	114.7	113.6	113.6	115.4	118.4	116.5
62.5°	112.5	110.7	111.4	111.1	110.3	108.5	107.0	107.0	109.2	112.2	112.9
63°	110.7	109.2	110.0	109.6	108.9	107.4	105.9	105.9	107.8	110.7	111.8
65°	102.7	103.0	103.4	103.8	103.4	103.0	101.2	100.5	101.9	104.1	105.6
67.5°	93.2	93.9	94.6	96.4	95.7	95.7	94.6	93.9	94.3	95.4	96.4
70°	84.4	85.1	86.2	87.0	87.3	87.7	87.0	85.9	86.2	86.6	87.3
72.5°	76.0	76.7	77.5	78.9	78.9	78.9	78.2	77.5	77.8	78.5	79.3
75°	68.3	68.7	69.4	70.5	70.9	70.1	70.1	69.4	69.8	70.9	71.6
77.5°	60.6	59.9	60.3	61.0	62.1	62.1	62.5	62.1	62.8	63.6	64.3
80°	51.9	51.1	50.4	50.8	52.2	54.1	55.9	55.9	57.0	57.4	58.5
82.5°	41.3	40.6	40.2	41.3	40.9	43.5	47.5	49.7	51.1	52.6	53.3
85°	32.1	30.3	31.1	31.1	30.3	34.3	38.0	40.9	41.3	43.5	43.8
87.5°	19.0	18.3	17.5	16.8	19.4	23.4	26.7	27.8	28.5	29.6	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):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3
2.5°	609.4	612.3	611.6	611.2	611.6	611.2	610.1	610.5	609.8	610.1	609.4
5°	621.1	622.5	621.4	619.6	619.6	617.1	615.2	613.8	611.9	611.2	609.8
7.5°	632.4	631.3	629.8	626.6	624.7	621.4	618.9	616.0	614.1	611.9	609.4
10°	639.3	637.2	634.2	630.2	625.1	622.2	618.5	614.1	611.9	610.8	608.3
12.5°	642.6	636.8	632.0	624.7	617.4	611.9	607.9	603.5	602.4	601.0	599.2
15°	635.0	626.6	614.5	604.6	595.1	587.5	584.2	579.4	578.3	578.0	577.6
17.5°	609.0	596.2	584.5	571.4	563.0	556.0	553.1	552.0	550.2	549.5	549.8
20°	567.4	556.4	544.7	540.3	530.5	528.6	524.3	521.3	518.1	517.0	515.1
22.5°	518.8	505.3	498.0	494.7	490.7	481.2	479.0	476.0	471.7	468.4	467.6
25°	462.2	451.2	450.8	443.2	439.9	434.8	428.9	425.3	422.7	418.7	415.8
27.5°	404.4	400.4	393.5	387.6	385.4	382.5	373.7	371.9	369.0	365.7	362.4
30°	350.7	347.8	341.2	335.7	332.5	326.6	318.2	318.9	313.1	308.7	305.8
32.5°	298.5	296.3	290.1	288.6	278.0	275.1	266.3	259.8	253.9	249.5	245.9
35°	251.4	245.5	245.9	239.3	233.5	224.7	215.6	207.1	202.4	200.2	196.9
37.5°	217.4	211.9	206.4	199.1	192.5	186.3	180.8	178.3	175.4	176.1	176.5
40°	186.7	182.7	178.7	173.5	169.5	167.0	165.5	165.5	165.9	167.7	169.2
42.5°	164.8	161.5	159.3	157.5	158.2	158.2	159.3	161.1	162.9	165.5	167.0
45°	150.2	148.3	147.6	148.3	150.5	152.3	154.9	157.8	160.7	163.3	164.4
47.5°	141.4	140.3	140.3	142.1	145.4	148.3	152.3	155.3	158.6	160.7	161.5
50°	131.9	131.5	131.5	133.0	135.9	139.6	143.6	146.5	149.4	151.3	152.0
52.5°	126.4	125.3	124.9	126.8	129.3	133.0	137.0	139.9	142.1	143.6	143.9
55°	121.7	120.6	119.8	122.0	124.9	128.2	133.0	136.3	138.5	140.3	141.8
57.5°	117.6	116.5	115.8	118.4	121.3	125.3	129.3	133.0	135.9	138.1	139.6
60°	114.4	112.9	112.2	115.1	118.0	122.0	126.0	130.1	134.1	136.6	137.4
62.5°	110.3	109.2	108.1	110.0	111.4	114.4	118.0	122.0	125.7	128.2	128.2
63°	109.2	108.9	107.4	108.9	110.3	112.9	116.5	120.2	123.9	126.8	126.4
65°	104.5	104.5	103.8	105.2	106.7	109.2	112.2	116.2	119.5	121.7	122.0
67.5°	96.8	97.2	97.9	99.4	102.3	104.9	108.1	111.8	114.7	116.2	116.9
70°	88.0	88.8	90.2	92.4	95.0	97.2	99.4	103.0	105.6	107.0	107.8
72.5°	79.6	81.5	82.6	84.4	85.9	88.0	89.9	93.5	95.7	96.8	98.6
75°	72.0	73.4	74.2	75.3	76.7	77.5	79.6	81.1	84.0	85.5	87.7
77.5°	64.7	65.4	66.5	68.3	68.7	69.8	70.5	72.7	74.2	75.6	77.5
80°	58.1	58.8	60.3	61.4	61.7	62.5	62.8	62.5	62.1	61.0	62.5
82.5°	52.2	53.0	54.8	55.9	57.0	57.0	56.6	52.6	50.8	51.5	52.6
85°	43.1	43.8	45.7	47.9	48.2	47.9	48.2	44.2	41.6	40.6	41.6
87.5°	27.0	26.3	32.5	35.4	33.2	34.0	34.3	32.1	30.0	25.6	26.7
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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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	604.3	0°
2.5°	610.1	607.6	607.9	608.7	608.7	609.8	608.3	606.5	607.6	605.7	605.4	2.5°
5°	609.8	606.5	606.5	607.2	606.5	607.2	606.1	604.3	605.4	603.2	602.8	5°
7.5°	608.3	606.5	607.2	607.9	606.8	607.2	606.8	604.3	604.6	603.5	601.0	7.5°
10°	607.6	606.5	607.9	610.1	610.1	610.5	609.4	606.5	604.6	603.5	601.3	10°
12.5°	599.9	601.3	604.3	609.4	611.2	614.1	615.6	614.1	614.9	613.4	612.7	12.5°
15°	578.0	581.6	586.4	594.0	599.5	606.1	614.1	617.8	624.7	630.2	633.9	15°
17.5°	551.7	554.2	559.3	568.1	575.0	588.2	599.2	611.6	625.1	639.7	652.5	17.5°
20°	519.1	517.3	525.4	534.9	546.9	561.5	577.6	596.2	618.5	641.9	664.2	20°
22.5°	471.3	471.3	479.7	491.0	505.6	522.4	544.7	564.8	594.0	628.0	660.9	22.5°
25°	416.5	417.6	423.4	436.2	446.4	470.6	491.4	517.3	552.4	589.7	633.5	25°
27.5°	358.0	365.3	363.9	377.4	390.9	414.7	443.2	469.5	508.6	548.4	598.4	27.5°
30°	305.1	304.0	303.6	319.7	333.2	354.7	378.1	411.4	450.8	502.0	559.7	30°
32.5°	239.3	243.3	246.2	255.7	270.4	290.4	315.7	350.4	397.9	449.4	514.4	32.5°
35°	197.6	198.7	202.8	208.2	221.0	237.8	264.1	294.8	336.5	389.8	458.9	35°
37.5°	177.2	178.3	182.7	187.8	196.9	209.3	227.2	251.0	289.3	339.0	403.3	37.5°
40°	170.6	171.7	174.3	179.0	187.4	198.0	212.3	230.5	258.3	297.0	353.3	40°
42.5°	167.7	167.7	168.1	171.7	180.1	192.5	207.9	224.3	244.8	274.0	319.7	42.5°
45°	164.4	164.4	164.0	166.6	173.2	187.4	206.1	226.1	248.4	273.6	309.4	45°
47.5°	161.5	160.7	160.0	161.1	166.6	181.2	202.8	227.2	255.7	287.2	323.3	47.5°
50°	151.3	151.3	150.9	151.3	156.4	171.7	196.6	226.1	262.3	302.9	346.7	50°
52.5°	143.9	144.3	144.7	144.7	148.7	164.4	191.8	226.5	269.6	318.2	373.7	52.5°
55°	142.1	142.8	142.8	142.1	145.4	159.7	187.4	225.4	274.7	335.4	402.6	55°
57.5°	139.9	140.3	140.7	139.9	142.1	154.5	181.2	220.3	273.3	342.0	424.2	57.5°
60°	137.0	135.5	135.2	134.1	135.5	145.4	170.2	209.3	264.5	339.0	431.5	60°
62.5°	129.0	127.9	126.8	125.7	126.8	134.1	158.2	195.8	249.9	327.3	425.6	62.5°
63°	127.1	126.4	125.3	124.2	124.2	132.3	154.2	192.5	246.2	324.1	423.4	63°
65°	122.0	121.7	120.9	119.8	119.5	125.7	145.0	177.6	229.1	309.4	409.5	65°
67.5°	116.2	116.2	115.8	114.4	112.5	116.2	129.7	155.3	199.1	271.8	375.2	67.5°
70°	107.8	107.8	107.4	106.7	104.5	107.0	115.8	132.6	164.0	222.1	314.6	70°
72.5°	99.4	99.4	100.5	100.1	100.5	100.8	105.2	114.4	133.3	172.8	237.8	72.5°
75°	88.4	90.2	90.6	91.3	91.7	91.3	93.5	99.0	110.0	132.6	173.5	75°
77.5°	79.3	81.8	81.5	80.7	80.4	80.7	80.4	82.9	91.0	105.2	128.6	77.5°
80°	65.4	68.0	68.0	67.6	66.9	67.6	66.9	69.4	76.0	88.4	102.3	80°
82.5°	53.7	55.5	56.6	57.4	56.6	59.6	59.6	58.8	63.9	74.9	86.2	82.5°
85°	43.1	44.9	46.0	47.5	48.2	47.5	47.1	46.4	49.3	58.1	65.8	85°
87.5°	27.4	28.9	28.9	29.2	29.2	30.3	28.1	25.6	23.4	33.2	34.7	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°



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**DISTRIBUTION (continued):**

330°	335°	340°	345°	350°	355°	360°
604.3	604.3	604.3	604.3	604.3	604.3	604.3
604.3	604.3	604.6	603.5	604.6	604.6	603.5
601.7	601.0	601.0	600.6	601.3	601.0	600.6
599.5	599.5	598.1	597.0	596.6	598.1	597.3
598.8	598.1	597.7	597.0	597.3	598.4	599.2
611.9	609.4	610.1	609.8	610.1	611.2	613.4
636.1	636.1	637.9	633.9	635.7	637.5	640.4
663.1	669.7	673.0	672.6	673.3	674.8	678.1
686.1	706.9	721.5	725.2	735.1	737.3	732.1
696.3	733.6	766.5	788.4	812.9	822.7	825.7
675.5	729.2	783.3	833.7	881.9	909.7	934.2
654.0	717.5	789.5	864.8	943.3	1014.2	1067.2
624.0	708.0	805.2	906.8	1010.9	1109.5	1198.0
591.1	692.7	806.7	930.2	1058.8	1181.5	1288.6
544.0	656.9	783.3	926.5	1075.6	1229.4	1363.1
489.9	599.9	741.6	905.3	1074.5	1253.8	1414.2
432.2	544.7	693.8	869.1	1060.2	1261.5	1450.0
388.7	500.2	646.3	834.8	1039.0	1256.4	1467.2
366.4	461.8	607.6	801.2	1015.3	1244.0	1474.5
370.8	451.6	584.5	773.4	994.1	1230.5	1472.7
395.3	466.9	584.2	763.2	980.6	1218.0	1467.6
432.2	501.6	605.4	775.3	987.9	1216.9	1467.2
473.8	550.2	656.5	807.8	1018.9	1236.7	1476.0
514.0	609.4	722.3	880.5	1077.8	1286.0	1511.4
537.8	663.5	806.7	983.1	1168.4	1372.6	1589.2
543.3	696.0	881.6	1084.0	1292.6	1497.9	1710.5
542.9	699.3	894.4	1104.8	1317.8	1526.8	1741.6
534.5	705.8	928.7	1173.5	1419.0	1650.6	1871.3
508.2	694.1	947.7	1237.4	1519.4	1787.2	2066.4
447.9	640.8	925.4	1258.2	1579.4	1877.8	2196.4
350.7	528.6	799.0	1150.1	1498.3	1796.7	2199.7
246.6	373.7	614.9	944.4	1224.6	1518.4	1964.8
171.7	242.2	399.3	635.3	883.8	1107.7	1460.6
125.7	161.1	239.3	380.0	536.3	692.3	906.4
96.8	116.2	153.1	229.4	302.9	387.6	546.5
68.0	76.7	94.6	141.8	203.1	277.3	400.4
29.6	34.7	45.7	83.7	137.4	132.3	126.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)