

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: P145744

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145744
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-F03-E-7030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6092.5 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

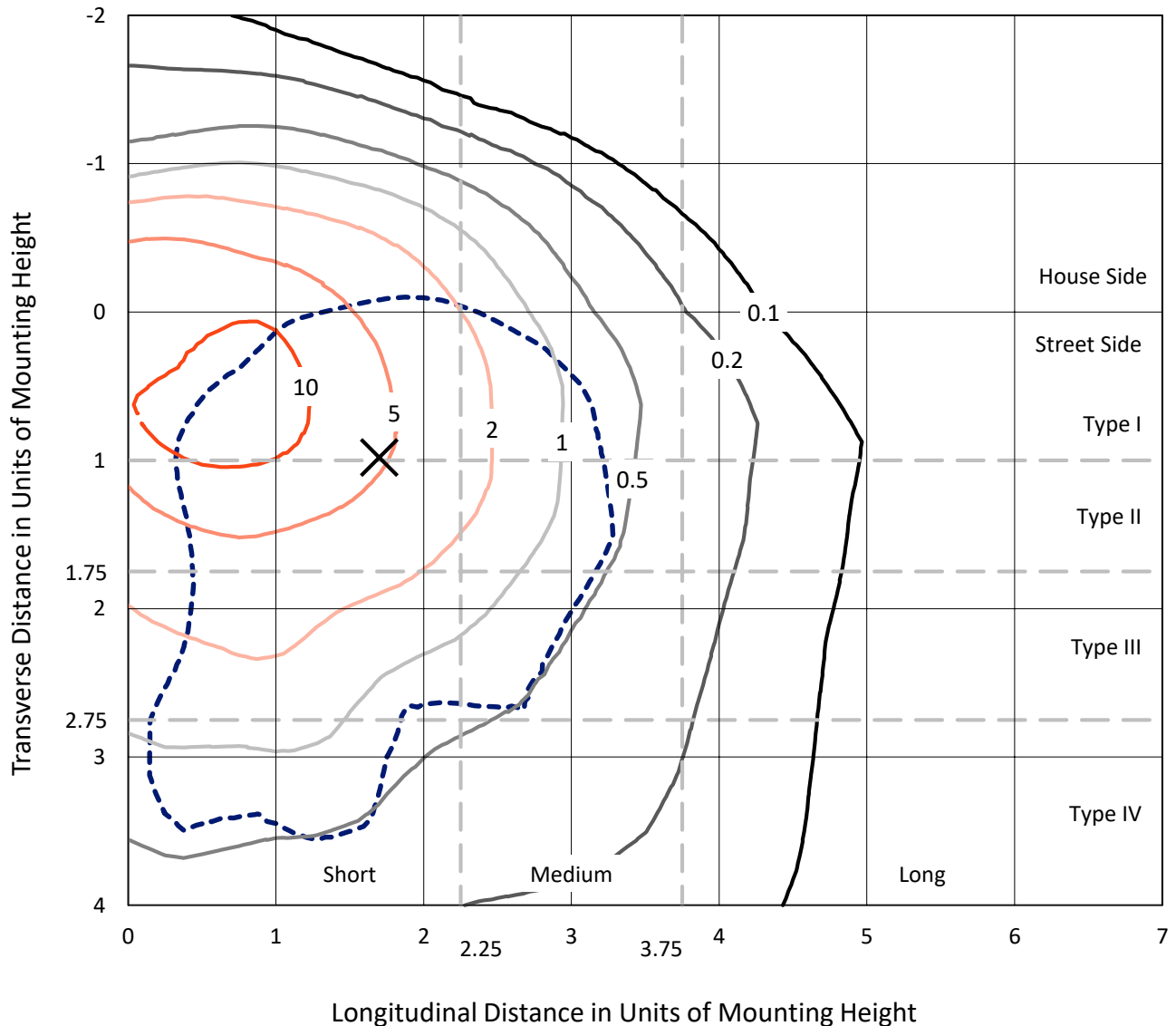
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

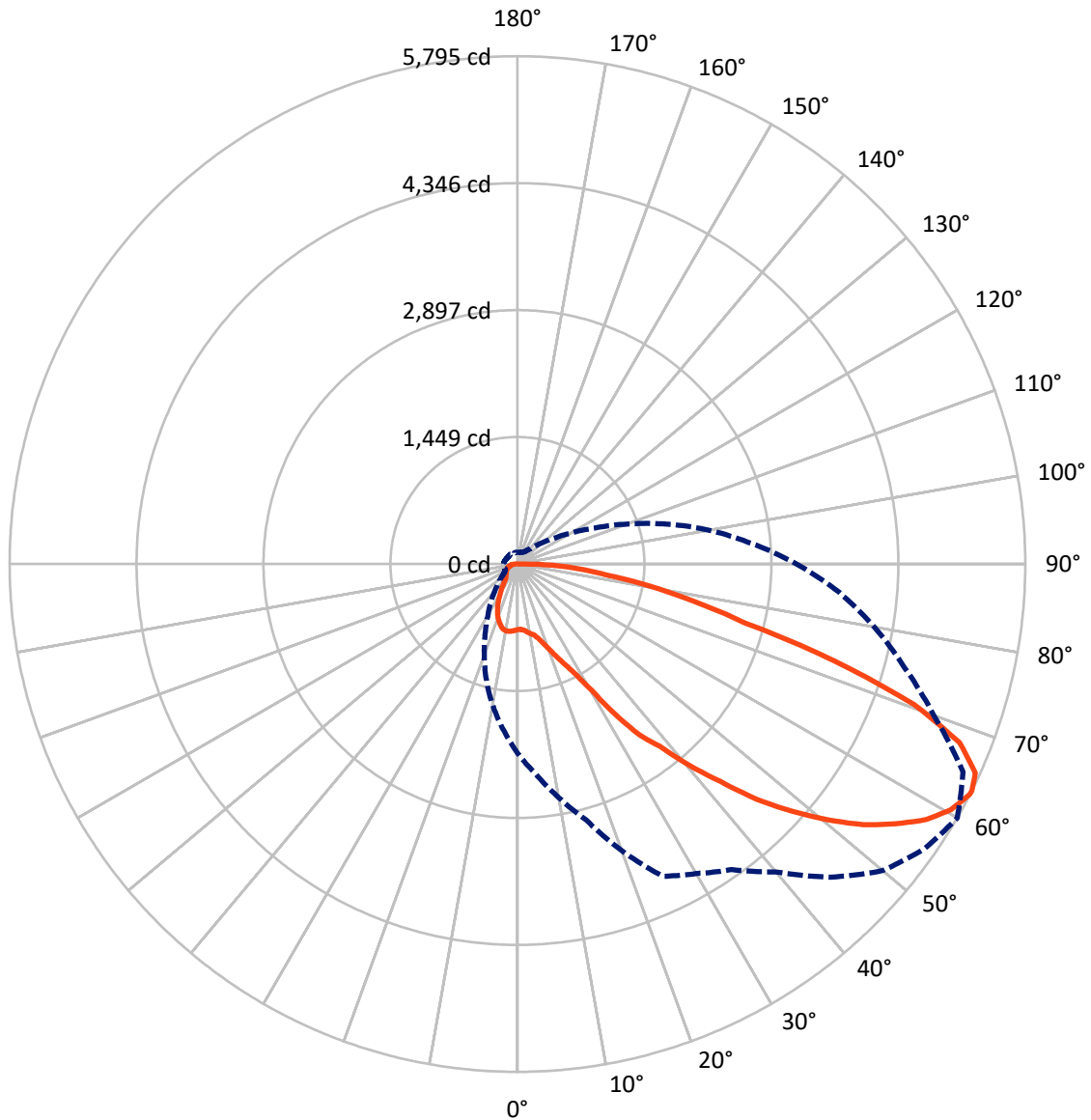
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.2 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
House Side	Lumens	1275.3	0.0	1275.3
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	4817.2	0.0	4817.2
	% Fixture	79.1	0.0	79.1
Total	Lumens	6092.5	0.0	6092.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	1.2
10°-20°	229.4	3.8
20°-30°	405.6	6.7
30°-40°	640.3	10.5
40°-50°	941.6	15.5
50°-60°	1240.4	20.4
60°-70°	1382.5	22.7
70°-80°	908.3	14.9
80°-90°	270.9	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°	6092.5	100.0
0°-180°	6092.5	100.0

Coefficient of Utilization



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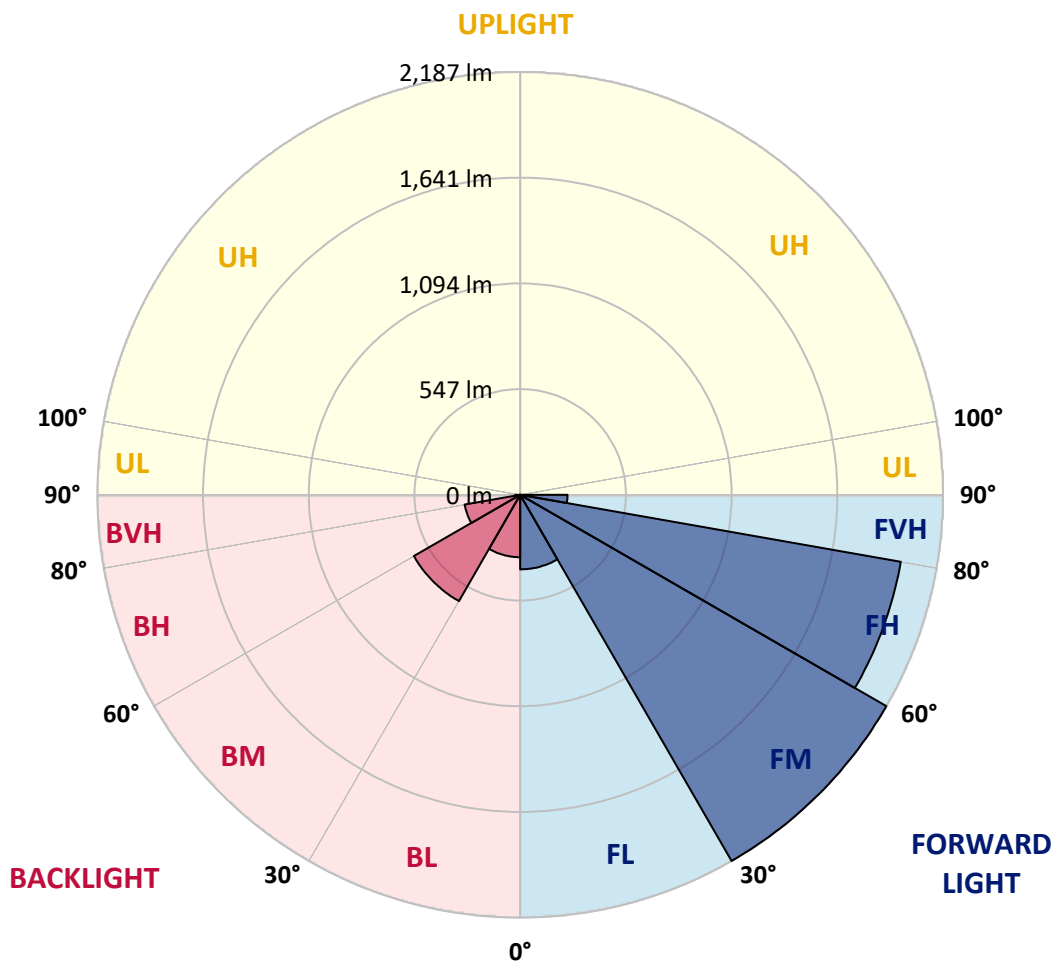
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	385.6	6.3			
FM	(30°-60°)	2187.4	35.9			
FH	(60°-80°)	1999.4	32.8			G2/5000
FVH	(80°-90°)	244.8	4.0			G3/500
BL	(0°-30°)	322.8	5.3	B1/500		
BM	(30°-60°)	635.0	10.4	B1/1000		
BH	(60°-80°)	291.5	4.8	B1/500		G1/500
BVH	(80°-90°)	26.1	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3
2.5°	747.4	747.8	746.5	746.0	745.1	745.5	745.5	744.6	744.6	745.1	743.7
5°	743.7	744.6	744.2	745.1	746.0	747.4	748.7	750.1	751.4	753.2	753.7
7.5°	739.7	742.4	742.8	745.5	748.7	752.3	756.9	761.8	768.6	770.4	774.5
10°	741.9	746.9	749.6	755.0	760.0	766.8	775.0	779.9	788.5	791.7	797.6
12.5°	759.6	763.2	766.8	773.1	780.4	789.0	798.0	805.7	814.8	817.9	820.2
15°	793.1	796.7	800.7	807.1	814.8	825.2	838.3	847.8	858.6	866.8	872.7
17.5°	839.6	839.6	849.1	851.0	865.9	881.7	898.0	916.6	927.9	934.7	945.5
20°	906.6	906.6	919.3	925.1	937.8	958.2	980.3	1000.7	1017.0	1030.6	1040.5
22.5°	1022.4	1017.4	1028.3	1026.9	1042.3	1072.6	1094.3	1105.7	1127.4	1135.5	1148.6
25°	1156.8	1174.4	1186.2	1186.2	1192.5	1223.7	1241.8	1250.4	1270.3	1264.4	1278.0
27.5°	1321.4	1369.0	1412.8	1430.9	1422.3	1456.7	1463.0	1471.2	1468.9	1454.9	1450.8
30°	1483.4	1567.1	1635.4	1677.0	1725.0	1791.5	1791.5	1802.3	1778.8	1739.9	1716.8
32.5°	1595.6	1703.3	1807.8	1894.2	1975.6	2077.4	2120.4	2180.1	2190.0	2205.0	2153.4
35°	1687.9	1839.0	1951.2	2081.0	2180.5	2283.7	2398.2	2501.8	2570.5	2559.2	2538.8
37.5°	1751.2	1945.3	2101.8	2254.3	2405.8	2523.9	2632.5	2767.8	2899.4	2925.6	2870.5
40°	1795.6	2020.4	2235.7	2423.0	2613.5	2790.8	2922.9	3068.2	3274.4	3361.8	3316.5
42.5°	1816.8	2079.2	2319.4	2557.8	2799.0	3022.9	3188.5	3387.5	3632.3	3781.6	3731.8
45°	1825.9	2115.4	2387.3	2658.7	2948.3	3224.7	3438.2	3664.0	3939.5	4179.2	4188.3
47.5°	1823.6	2134.9	2433.9	2730.7	3065.4	3387.1	3673.5	3929.5	4241.7	4493.7	4587.3
50°	1817.3	2141.6	2461.9	2774.1	3139.2	3506.1	3828.6	4133.1	4481.9	4800.8	4943.3
52.5°	1816.8	2143.0	2476.0	2798.1	3182.6	3578.9	3925.9	4285.5	4667.8	5001.2	5223.4
55°	1827.7	2151.1	2491.3	2814.8	3206.1	3620.1	3980.6	4381.0	4748.8	5127.5	5414.3
57.5°	1871.6	2189.1	2528.0	2843.3	3232.4	3652.6	4023.2	4408.6	4772.8	5179.9	5525.1
60°	1967.9	2260.2	2591.8	2895.8	3300.7	3738.1	4063.4	4369.7	4727.5	5165.0	5540.9
62.5°	2118.1	2374.2	2680.9	2992.6	3439.6	3900.6	4080.2	4280.6	4615.8	5079.1	5472.6
63°	2156.6	2404.5	2704.4	3019.3	3479.8	3931.3	4078.8	4257.0	4585.0	5053.7	5441.9
65°	2317.2	2544.7	2813.9	3146.9	3663.1	4029.0	4029.5	4118.6	4428.1	4913.9	5315.7
67.5°	2558.8	2775.9	2984.0	3315.2	3865.7	4077.9	3883.4	3816.0	4089.7	4618.1	4995.4
70°	2719.8	2988.1	3104.8	3359.5	3893.3	4018.6	3652.2	3427.4	3654.5	4096.0	4431.2
72.5°	2723.9	3029.7	3063.6	3170.4	3635.0	3735.4	3254.1	2949.6	3086.2	3456.8	3633.2
75°	2433.0	2817.5	2747.9	2708.5	2960.0	3003.0	2632.0	2505.4	2680.4	2899.4	2811.2
77.5°	1808.7	2319.9	2178.3	2010.9	2102.3	2108.6	2120.4	2359.2	2574.1	2663.7	2535.2
80°	1122.4	1704.2	1595.6	1319.6	1354.9	1459.0	1771.1	2193.2	2428.5	2492.7	2235.7
82.5°	676.8	1253.6	1195.7	1007.0	1051.4	1310.6	1655.8	1772.5	1851.7	1845.8	1580.2
85°	495.8	851.4	930.1	944.2	1101.6	1272.6	1265.4	1178.9	1130.5	994.8	849.1
87.5°	156.1	439.3	521.2	607.6	665.5	629.7	619.3	535.2	383.2	323.9	356.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3
2.5°	743.7	745.5	746.5	746.0	746.5	746.5	749.2	748.3	749.2	748.7	751.4
5°	755.0	757.8	760.0	760.0	760.5	761.4	765.0	765.0	766.8	770.4	772.2
7.5°	777.2	780.8	781.3	782.2	784.9	783.6	785.8	786.7	788.1	789.9	792.1
10°	800.3	805.3	805.3	804.8	805.3	801.6	803.0	800.3	800.7	803.5	806.2
12.5°	826.1	828.8	827.0	825.6	825.6	818.8	817.9	814.3	812.5	813.0	813.9
15°	877.6	875.4	874.9	872.7	864.5	859.6	855.9	844.6	838.7	835.6	830.1
17.5°	946.4	947.8	945.5	943.2	931.5	914.7	907.5	895.3	887.1	879.0	869.1
20°	1046.8	1037.8	1036.9	1029.7	1013.4	989.8	972.2	952.3	941.0	929.2	918.8
22.5°	1157.7	1148.2	1141.8	1127.8	1103.8	1074.0	1044.6	1019.2	1002.1	993.5	986.2
25°	1280.7	1275.3	1264.9	1229.2	1210.2	1175.8	1143.7	1118.8	1099.3	1092.1	1079.4
27.5°	1428.2	1432.3	1412.8	1379.4	1355.4	1307.0	1279.4	1236.4	1220.1	1193.9	1177.6
30°	1696.9	1670.7	1637.7	1586.6	1538.1	1473.0	1427.3	1382.5	1358.5	1323.3	1279.8
32.5°	2136.2	2036.2	1947.6	1839.0	1736.3	1653.1	1587.0	1530.5	1493.8	1435.5	1361.7
35°	2490.4	2394.1	2247.5	2089.6	1954.8	1848.0	1764.8	1711.4	1638.1	1544.9	1438.2
37.5°	2750.1	2639.3	2502.2	2381.4	2234.4	2115.4	2002.8	1891.9	1788.8	1647.6	1511.5
40°	3171.7	3021.6	2795.8	2653.3	2533.0	2371.9	2266.5	2117.2	1960.2	1778.4	1581.1
42.5°	3588.9	3389.8	3185.3	3021.6	2850.5	2675.9	2531.2	2330.7	2122.2	1886.5	1643.6
45°	4073.4	3829.5	3562.2	3333.3	3157.7	2952.3	2766.9	2520.8	2254.7	1975.2	1697.8
47.5°	4455.2	4213.6	3911.9	3681.1	3444.5	3212.9	2972.2	2668.7	2353.4	2047.5	1748.5
50°	4821.2	4588.2	4267.5	3984.3	3712.4	3432.8	3141.9	2773.6	2430.7	2104.1	1788.8
52.5°	5149.6	4942.4	4595.9	4257.5	3953.5	3631.4	3270.8	2871.8	2504.9	2162.5	1820.4
55°	5427.8	5233.8	4923.0	4501.8	4156.6	3800.1	3392.5	2961.4	2583.2	2223.5	1843.5
57.5°	5614.7	5502.5	5170.4	4716.7	4323.5	3944.0	3484.4	3051.4	2656.5	2261.5	1853.5
60°	5701.5	5686.6	5405.7	4910.8	4471.9	4056.2	3600.2	3146.9	2704.9	2278.7	1839.4
62.5°	5683.5	5790.2	5584.8	5043.8	4566.5	4126.3	3674.4	3188.0	2692.7	2237.1	1777.5
63°	5666.7	5794.7	5610.2	5056.9	4574.2	4133.1	3681.6	3183.1	2681.4	2218.6	1756.2
65°	5544.1	5741.4	5616.5	5033.4	4538.9	4113.6	3649.0	3104.8	2568.7	2101.8	1635.9
67.5°	5243.7	5441.4	5372.2	4774.1	4310.4	3904.6	3421.5	2838.3	2292.7	1853.9	1412.8
70°	4623.5	4800.4	4717.6	4191.4	3760.8	3473.0	3013.9	2360.6	1867.9	1490.2	1075.3
72.5°	3657.2	3781.6	3799.7	3381.7	3051.9	2879.0	2428.0	1780.6	1364.4	1037.8	698.0
75°	2708.0	2679.1	2685.0	2451.5	2317.2	2244.3	1815.0	1221.5	919.3	634.3	413.9
77.5°	2276.0	2067.9	1890.6	1825.9	1669.3	1624.1	1197.0	749.6	536.5	379.6	235.7
80°	1850.8	1535.4	1277.6	1163.1	1102.0	1111.1	662.3	399.5	280.9	206.7	147.5
82.5°	1265.4	1025.6	808.9	702.6	691.7	702.1	344.3	195.9	148.4	119.0	92.7
85°	748.3	704.4	628.8	558.3	533.8	504.0	256.1	140.2	76.5	63.3	52.0
87.5°	323.5	397.2	406.7	404.9	376.8	302.7	94.1	36.2	32.1	16.3	13.1
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°	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3
2.5°	751.4	751.9	751.0	751.9	755.0	755.0	754.6	755.5	756.0	758.7	757.8
5°	774.0	774.5	775.0	778.1	780.4	783.1	782.2	783.1	784.9	785.4	786.3
7.5°	794.9	797.6	801.2	802.6	806.6	807.5	811.6	812.1	813.0	811.1	809.3
10°	809.3	812.1	816.6	818.8	826.1	827.0	830.1	831.1	832.9	831.5	830.1
12.5°	816.6	818.8	823.8	828.3	838.3	841.5	846.9	850.1	852.3	851.0	846.4
15°	831.5	831.1	833.8	837.4	846.4	852.3	860.0	864.1	866.8	864.5	858.6
17.5°	865.9	859.6	859.6	857.3	864.1	865.4	868.6	870.9	870.0	863.2	853.7
20°	913.4	903.9	898.0	892.6	890.3	879.0	873.1	865.0	857.7	845.5	834.7
22.5°	974.9	968.1	954.6	942.3	925.1	902.1	877.2	855.9	840.1	823.4	804.8
25°	1068.1	1052.7	1033.3	1004.3	982.2	941.4	899.8	859.6	825.6	799.4	768.2
27.5°	1155.9	1123.3	1086.7	1041.4	1000.7	946.4	893.5	846.9	802.6	760.5	724.7
30°	1229.2	1172.6	1112.9	1049.6	991.7	926.1	864.5	811.6	761.4	711.6	677.7
32.5°	1284.4	1202.9	1123.3	1042.3	970.8	893.9	823.4	766.8	709.8	657.3	618.0
35°	1334.1	1224.2	1120.1	1022.9	938.3	853.2	777.2	713.9	651.5	595.4	550.1
37.5°	1369.9	1231.4	1106.6	994.8	896.6	803.5	721.1	653.7	586.8	529.8	480.0
40°	1397.5	1227.8	1080.8	951.8	839.6	742.8	662.3	591.7	524.8	467.8	415.8
42.5°	1416.0	1214.2	1041.9	903.0	792.1	690.8	612.1	537.9	470.9	411.2	353.8
45°	1440.0	1208.8	1017.9	866.3	749.2	646.9	562.8	490.4	420.7	358.3	303.6
47.5°	1462.6	1205.6	998.4	836.0	710.3	607.1	523.9	447.9	377.8	316.7	266.9
50°	1476.2	1200.7	978.1	799.4	666.8	566.4	486.8	409.9	339.3	280.9	236.6
52.5°	1480.2	1190.7	951.4	757.8	629.3	531.6	448.8	371.9	304.0	251.5	210.4
55°	1477.1	1171.3	915.2	723.8	590.8	493.1	410.3	335.7	274.2	224.8	191.8
57.5°	1461.7	1132.3	868.6	680.9	546.9	444.7	363.3	295.0	240.2	200.9	175.5
60°	1427.3	1076.3	811.6	620.7	484.1	387.3	310.3	251.5	205.4	176.9	160.1
62.5°	1352.2	995.3	728.8	535.6	399.9	310.8	243.8	200.4	169.2	154.3	144.3
63°	1330.0	967.2	704.4	513.0	385.4	293.6	228.9	189.6	161.5	149.3	141.1
65°	1213.3	837.8	595.4	412.6	298.6	222.6	174.6	148.8	133.9	129.4	127.1
67.5°	994.4	651.9	418.9	276.9	200.4	153.8	128.9	119.0	113.6	113.1	114.5
70°	702.6	432.5	259.2	177.3	138.0	116.3	106.8	102.2	99.5	100.4	103.1
72.5°	456.9	253.8	163.8	129.8	112.2	102.2	95.5	94.1	93.2	92.3	93.2
75°	241.6	158.8	124.0	108.6	98.2	90.0	85.5	83.7	84.1	84.1	84.1
77.5°	149.7	120.8	105.9	95.9	87.8	79.6	75.1	73.7	74.2	75.1	75.6
80°	114.9	105.4	93.2	86.0	74.2	67.4	65.1	64.7	65.6	65.6	67.0
82.5°	84.1	81.4	76.9	67.9	58.8	54.3	53.8	55.6	53.8	53.4	54.3
85°	49.3	46.1	50.2	43.0	39.4	36.6	38.5	42.1	43.9	41.6	40.7
87.5°	15.8	10.9	15.8	17.6	15.8	13.6	17.2	20.4	20.8	19.9	22.6
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: P145744

CATALOG NUMBER: LDRL-SLL-F03-E-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3
2.5°	757.3	760.5	757.3	758.7	758.2	757.3	758.7	756.9	756.0	758.7	758.2
5°	785.8	786.3	782.2	782.6	782.2	778.6	778.6	776.8	774.5	775.0	774.0
7.5°	808.9	808.0	804.8	803.5	799.4	796.7	794.9	792.1	790.3	788.5	787.6
10°	826.5	824.3	822.0	817.9	813.9	811.6	806.6	802.6	801.2	798.5	796.7
12.5°	841.9	837.8	834.2	829.2	824.3	820.6	814.8	811.6	809.3	805.7	803.0
15°	850.5	842.8	836.0	828.3	822.9	817.5	810.7	809.3	806.2	802.6	797.6
17.5°	840.1	829.2	816.6	808.4	800.3	792.1	785.4	785.4	784.0	779.9	771.3
20°	818.8	802.6	787.6	774.5	766.4	754.6	750.5	744.2	739.7	732.4	721.6
22.5°	784.0	766.8	747.4	734.2	720.2	707.1	699.0	689.0	685.4	673.6	659.1
25°	745.1	720.2	699.4	682.2	662.8	647.4	636.1	622.5	613.4	602.1	584.0
27.5°	699.0	673.2	649.6	630.6	610.3	589.0	568.2	552.4	536.1	523.0	512.6
30°	649.2	622.5	593.5	571.4	547.9	521.2	504.0	482.7	470.0	455.6	442.0
32.5°	584.0	560.5	526.6	500.8	471.8	451.0	437.0	416.7	401.7	389.5	381.8
35°	512.6	477.3	443.3	423.9	404.0	387.3	367.8	352.0	342.0	329.3	322.6
37.5°	434.8	393.6	364.6	347.4	327.1	318.9	306.7	297.2	288.2	279.6	274.2
40°	365.1	327.1	300.8	286.4	272.8	263.7	256.1	252.0	246.1	239.3	235.2
42.5°	307.2	276.9	251.1	237.5	227.1	226.2	221.2	218.1	215.8	211.7	205.4
45°	261.9	234.3	212.2	201.3	196.8	197.2	197.2	194.5	194.5	193.2	189.1
47.5°	231.6	206.7	190.5	183.2	181.4	181.9	180.5	179.6	180.1	179.6	177.3
50°	208.1	186.8	173.3	170.6	170.1	169.6	167.8	166.5	166.0	166.9	166.5
52.5°	184.1	166.5	158.8	157.9	158.3	158.3	157.9	157.4	158.3	159.2	157.9
55°	170.6	157.9	152.9	152.9	152.9	152.9	152.5	152.0	153.4	154.7	152.5
57.5°	157.9	148.8	147.0	147.0	147.0	146.1	146.1	146.6	148.4	151.1	148.4
60°	148.4	143.9	143.9	144.3	143.9	142.1	140.7	140.7	143.0	146.6	144.3
62.5°	139.3	137.1	138.0	137.5	136.6	134.4	132.6	132.6	135.3	138.9	139.8
63°	137.1	135.3	136.2	135.7	134.8	133.0	131.2	131.2	133.5	137.1	138.4
65°	127.1	127.6	128.0	128.5	128.0	127.6	125.3	124.4	126.2	128.9	130.7
67.5°	115.4	116.3	117.2	119.4	118.5	118.5	117.2	116.3	116.7	118.1	119.4
70°	104.5	105.4	106.8	107.7	108.1	108.6	107.7	106.3	106.8	107.2	108.1
72.5°	94.1	95.0	95.9	97.7	97.7	97.7	96.8	95.9	96.4	97.3	98.2
75°	84.6	85.1	86.0	87.3	87.8	86.9	86.9	86.0	86.4	87.8	88.7
77.5°	75.1	74.2	74.6	75.6	76.9	76.9	77.4	76.9	77.8	78.7	79.6
80°	64.2	63.3	62.4	62.9	64.7	67.0	69.2	69.2	70.6	71.0	72.4
82.5°	51.1	50.2	49.8	51.1	50.7	53.8	58.8	61.5	63.3	65.1	66.0
85°	39.8	37.5	38.5	38.5	37.5	42.5	47.0	50.7	51.1	53.8	54.3
87.5°	23.5	22.6	21.7	20.8	24.0	29.0	33.0	34.4	35.3	36.6	38.0
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3
2.5°	754.6	758.2	757.3	756.9	757.3	756.9	755.5	756.0	755.0	755.5	754.6
5°	769.1	770.9	769.5	767.3	767.3	764.1	761.8	760.0	757.8	756.9	755.0
7.5°	783.1	781.7	779.9	775.9	773.6	769.5	766.4	762.7	760.5	757.8	754.6
10°	791.7	789.0	785.4	780.4	774.0	770.4	765.9	760.5	757.8	756.4	753.2
12.5°	795.8	788.5	782.6	773.6	764.5	757.8	752.8	747.4	746.0	744.2	741.9
15°	786.3	775.9	760.9	748.7	737.0	727.5	723.4	717.5	716.1	715.7	715.2
17.5°	754.1	738.3	723.8	707.5	697.1	688.5	684.9	683.6	681.3	680.4	680.9
20°	702.6	689.0	674.5	669.1	656.9	654.6	649.2	645.6	641.5	640.1	637.9
22.5°	642.4	625.7	616.6	612.5	607.6	595.8	593.1	589.5	584.0	580.0	579.1
25°	572.3	558.7	558.3	548.8	544.7	538.4	531.1	526.6	523.4	518.4	514.8
27.5°	500.8	495.8	487.2	480.0	477.3	473.7	462.8	460.5	456.9	452.8	448.8
30°	434.3	430.7	422.5	415.8	411.7	404.4	394.0	394.9	387.7	382.3	378.7
32.5°	369.6	366.9	359.2	357.4	344.3	340.7	329.8	321.7	314.4	309.0	304.5
35°	311.2	304.0	304.5	296.3	289.1	278.2	266.9	256.5	250.6	247.9	243.8
37.5°	269.2	262.4	255.6	246.6	238.4	230.7	223.9	220.8	217.2	218.1	218.5
40°	231.2	226.2	221.2	214.9	209.9	206.7	204.9	204.9	205.4	207.6	209.5
42.5°	204.0	200.0	197.2	195.0	195.9	195.9	197.2	199.5	201.8	204.9	206.7
45°	185.9	183.7	182.8	183.7	186.4	188.6	191.8	195.4	199.1	202.2	203.6
47.5°	175.1	173.7	173.7	176.0	180.1	183.7	188.6	192.3	196.3	199.1	200.0
50°	163.3	162.9	162.9	164.7	168.3	172.8	177.8	181.4	185.0	187.3	188.2
52.5°	156.5	155.2	154.7	157.0	160.1	164.7	169.6	173.3	176.0	177.8	178.2
55°	150.6	149.3	148.4	151.1	154.7	158.8	164.7	168.7	171.5	173.7	175.5
57.5°	145.7	144.3	143.4	146.6	150.2	155.2	160.1	164.7	168.3	171.0	172.8
60°	141.6	139.8	138.9	142.5	146.1	151.1	156.1	161.1	166.0	169.2	170.1
62.5°	136.6	135.3	133.9	136.2	138.0	141.6	146.1	151.1	155.6	158.8	158.8
63°	135.3	134.8	133.0	134.8	136.6	139.8	144.3	148.8	153.4	157.0	156.5
65°	129.4	129.4	128.5	130.3	132.1	135.3	138.9	143.9	147.9	150.6	151.1
67.5°	119.9	120.3	121.2	123.1	126.7	129.8	133.9	138.4	142.1	143.9	144.8
70°	109.0	109.9	111.7	114.5	117.6	120.3	123.1	127.6	130.7	132.6	133.5
72.5°	98.6	100.9	102.2	104.5	106.3	109.0	111.3	115.8	118.5	119.9	122.1
75°	89.1	90.9	91.8	93.2	95.0	95.9	98.6	100.4	104.1	105.9	108.6
77.5°	80.1	81.0	82.3	84.6	85.1	86.4	87.3	90.0	91.8	93.6	95.9
80°	71.9	72.8	74.6	76.0	76.5	77.4	77.8	77.4	76.9	75.6	77.4
82.5°	64.7	65.6	67.9	69.2	70.6	70.6	70.1	65.1	62.9	63.8	65.1
85°	53.4	54.3	56.5	59.3	59.7	59.3	59.7	54.7	51.6	50.2	51.6
87.5°	33.5	32.6	40.3	43.9	41.2	42.1	42.5	39.8	37.1	31.7	33.0
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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 CATALOG NUMBER: LDRL-SLL-F03-E-7030

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	748.3	0°
2.5°	755.5	752.3	752.8	753.7	753.7	755.0	753.2	751.0	752.3	750.1	749.6	2.5°
5°	755.0	751.0	751.0	751.9	751.0	751.9	750.5	748.3	749.6	746.9	746.5	5°
7.5°	753.2	751.0	751.9	752.8	751.4	751.9	751.4	748.3	748.7	747.4	744.2	7.5°
10°	752.3	751.0	752.8	755.5	755.5	756.0	754.6	751.0	748.7	747.4	744.6	10°
12.5°	742.8	744.6	748.3	754.6	756.9	760.5	762.3	760.5	761.4	759.6	758.7	12.5°
15°	715.7	720.2	726.1	735.6	742.4	750.5	760.5	765.0	773.6	780.4	784.9	15°
17.5°	683.1	686.3	692.6	703.5	712.1	728.4	741.9	757.3	774.0	792.1	808.0	17.5°
20°	642.9	640.6	650.5	662.3	677.2	695.3	715.2	738.3	765.9	794.9	822.5	20°
22.5°	583.6	583.6	594.0	608.0	626.1	646.9	674.5	699.4	735.6	777.7	818.4	22.5°
25°	515.7	517.1	524.3	540.2	552.8	582.7	608.5	640.6	684.0	730.2	784.5	25°
27.5°	443.3	452.4	450.6	467.3	484.1	513.5	548.8	581.3	629.7	679.0	741.0	27.5°
30°	377.8	376.4	375.9	395.8	412.6	439.3	468.2	509.4	558.3	621.6	693.1	30°
32.5°	296.3	301.3	304.9	316.7	334.8	359.7	390.9	433.8	492.7	556.4	637.0	32.5°
35°	244.7	246.1	251.1	257.9	273.7	294.5	327.1	365.1	416.7	482.7	568.2	35°
37.5°	219.4	220.8	226.2	232.5	243.8	259.2	281.4	310.8	358.3	419.8	499.4	37.5°
40°	211.3	212.6	215.8	221.7	232.1	245.2	262.8	285.5	319.8	367.8	437.5	40°
42.5°	207.6	207.6	208.1	212.6	223.0	238.4	257.4	277.8	303.1	339.3	395.8	42.5°
45°	203.6	203.6	203.1	206.3	214.4	232.1	255.2	280.0	307.6	338.8	383.2	45°
47.5°	200.0	199.1	198.1	199.5	206.3	224.4	251.1	281.4	316.7	355.6	400.4	47.5°
50°	187.3	187.3	186.8	187.3	193.6	212.6	243.4	280.0	324.8	375.0	429.3	50°
52.5°	178.2	178.7	179.1	179.1	184.1	203.6	237.5	280.5	333.9	394.0	462.8	52.5°
55°	176.0	176.9	176.9	176.0	180.1	197.7	232.1	279.1	340.2	415.3	498.5	55°
57.5°	173.3	173.7	174.2	173.3	176.0	191.4	224.4	272.8	338.4	423.4	525.2	57.5°
60°	169.6	167.8	167.4	166.0	167.8	180.1	210.8	259.2	327.5	419.8	534.3	60°
62.5°	159.7	158.3	157.0	155.6	157.0	166.0	195.9	242.5	309.4	405.3	527.0	62.5°
63°	157.4	156.5	155.2	153.8	153.8	163.8	190.9	238.4	304.9	401.3	524.3	63°
65°	151.1	150.6	149.7	148.4	147.9	155.6	179.6	219.9	283.7	383.2	507.1	65°
67.5°	143.9	143.9	143.4	141.6	139.3	143.9	160.6	192.3	246.6	336.6	464.6	67.5°
70°	133.5	133.5	133.0	132.1	129.4	132.6	143.4	164.2	203.1	275.1	389.5	70°
72.5°	123.1	123.1	124.4	124.0	124.4	124.9	130.3	141.6	165.1	214.0	294.5	72.5°
75°	109.5	111.7	112.2	113.1	113.6	113.1	115.8	122.6	136.2	164.2	214.9	75°
77.5°	98.2	101.3	100.9	100.0	99.5	100.0	99.5	102.7	112.6	130.3	159.2	77.5°
80°	81.0	84.1	84.1	83.7	82.8	83.7	82.8	86.0	94.1	109.5	126.7	80°
82.5°	66.5	68.8	70.1	71.0	70.1	73.7	73.7	72.8	79.2	92.7	106.8	82.5°
85°	53.4	55.6	57.0	58.8	59.7	58.8	58.4	57.5	61.1	71.9	81.4	85°
87.5°	33.9	35.7	35.7	36.2	36.2	37.5	34.8	31.7	29.0	41.2	43.0	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°
748.3	748.3	748.3	748.3	748.3	748.3	748.3
748.3	748.3	748.7	747.4	748.7	748.7	747.4
745.1	744.2	744.2	743.7	744.6	744.2	743.7
742.4	742.4	740.6	739.2	738.8	740.6	739.7
741.5	740.6	740.1	739.2	739.7	741.0	741.9
757.8	754.6	755.5	755.0	755.5	756.9	759.6
787.6	787.6	789.9	784.9	787.2	789.4	793.1
821.1	829.2	833.3	832.9	833.8	835.6	839.6
849.6	875.4	893.5	898.0	910.2	912.9	906.6
862.3	908.4	949.1	976.3	1006.6	1018.8	1022.4
836.5	903.0	969.9	1032.4	1092.1	1126.5	1156.8
809.8	888.5	977.6	1070.8	1168.1	1255.9	1321.4
772.7	876.7	997.1	1122.8	1251.8	1373.9	1483.4
732.0	857.7	998.9	1151.8	1311.0	1463.0	1595.6
673.6	813.4	969.9	1147.3	1331.9	1522.3	1687.9
606.7	742.8	918.4	1121.0	1330.5	1552.6	1751.2
535.2	674.5	859.1	1076.3	1312.9	1562.1	1795.6
481.3	619.3	800.3	1033.7	1286.6	1555.8	1816.8
453.8	571.8	752.3	992.1	1257.2	1540.4	1825.9
459.2	559.2	723.8	957.7	1231.0	1523.7	1823.6
489.5	578.2	723.4	945.1	1214.2	1508.3	1817.3
535.2	621.1	749.6	960.0	1223.3	1506.9	1816.8
586.8	681.3	813.0	1000.2	1261.7	1531.4	1827.7
636.5	754.6	894.4	1090.3	1334.6	1592.4	1871.6
665.9	821.6	998.9	1217.4	1446.8	1699.7	1967.9
672.7	861.8	1091.6	1342.3	1600.6	1854.8	2118.1
672.3	865.9	1107.5	1368.0	1631.8	1890.6	2156.6
661.9	874.0	1150.0	1453.1	1757.1	2043.9	2317.2
629.3	859.6	1173.5	1532.3	1881.5	2213.1	2558.8
554.6	793.5	1145.9	1558.1	1955.7	2325.3	2719.8
434.3	654.6	989.4	1424.1	1855.3	2224.9	2723.9
305.4	462.8	761.4	1169.4	1516.4	1880.2	2433.0
212.6	299.9	494.5	786.7	1094.3	1371.7	1808.7
155.6	199.5	296.3	470.5	664.1	857.3	1122.4
119.9	143.9	189.6	284.1	375.0	480.0	676.8
84.1	95.0	117.2	175.5	251.5	343.4	495.8
36.6	43.0	56.5	103.6	170.1	163.8	156.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)