

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: P145738

Luminaire Tested: **LDRL-SLL-E03-E-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145738
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-E03-E-8030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6819.7 lumens
Efficiency: N/A
Efficacy: 90.7 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

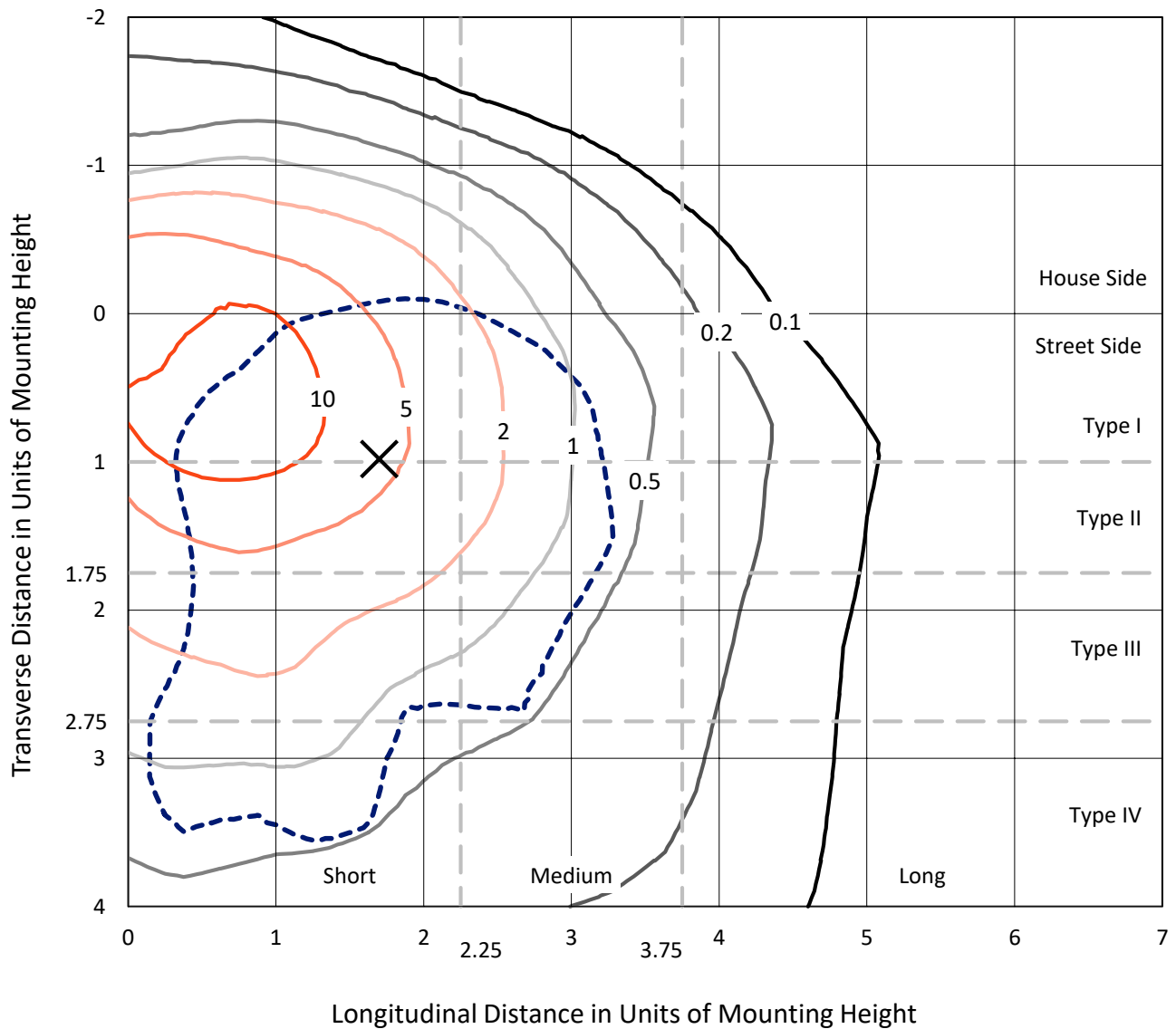
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

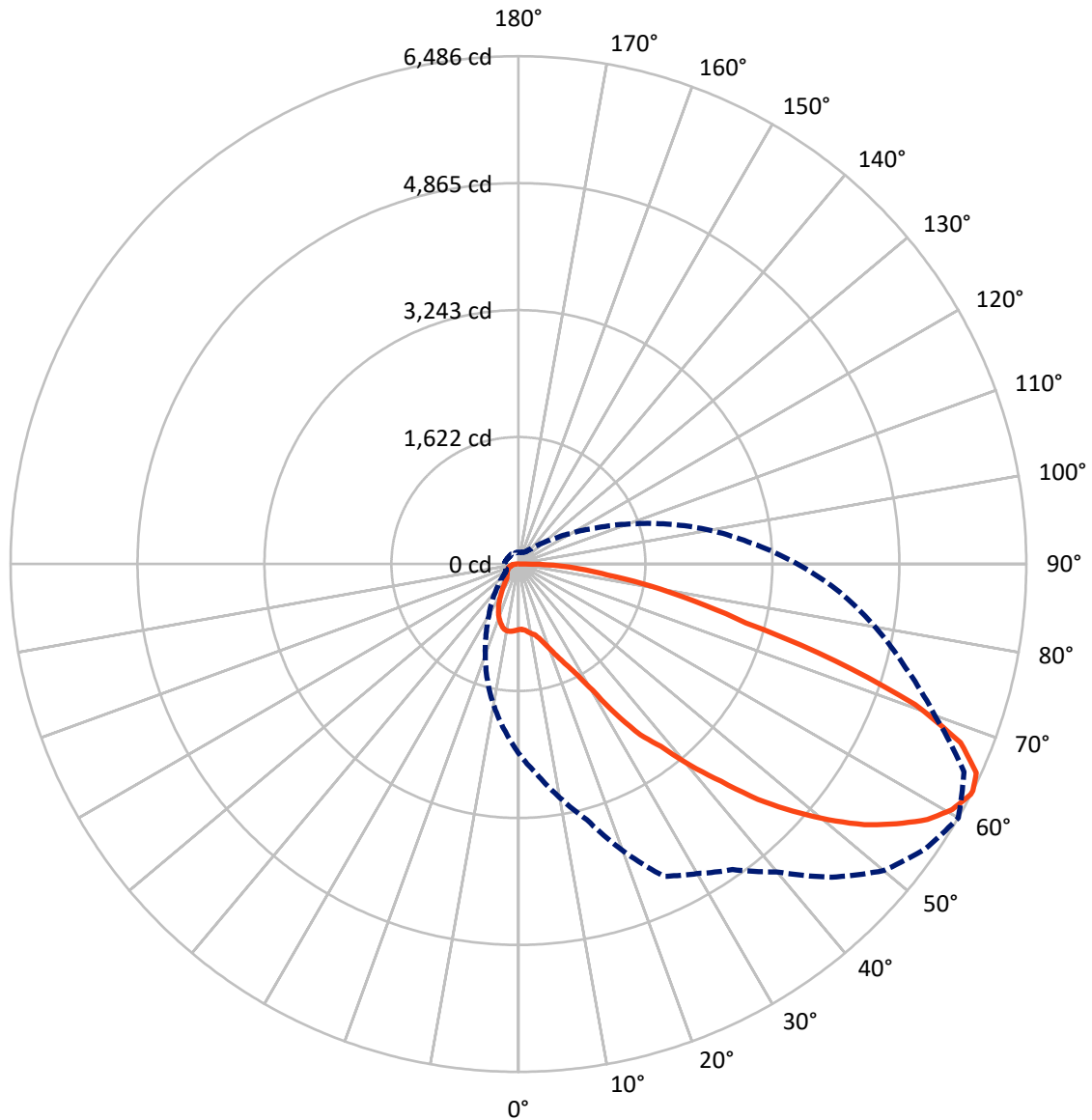
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17 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	1427.6	0.0	1427.6
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	5392.1	0.0	5392.1
	% Fixture	79.1	0.0	79.1
Total	Lumens	6819.7	0.0	6819.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.3	1.2
10°-20°	256.7	3.8
20°-30°	454.0	6.7
30°-40°	716.8	10.5
40°-50°	1054.0	15.5
50°-60°	1388.4	20.4
60°-70°	1547.5	22.7
70°-80°	1016.8	14.9
80°-90°	303.2	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°	6819.7	100.0
0°-180°	6819.7	100.0

Coefficient of Utilization



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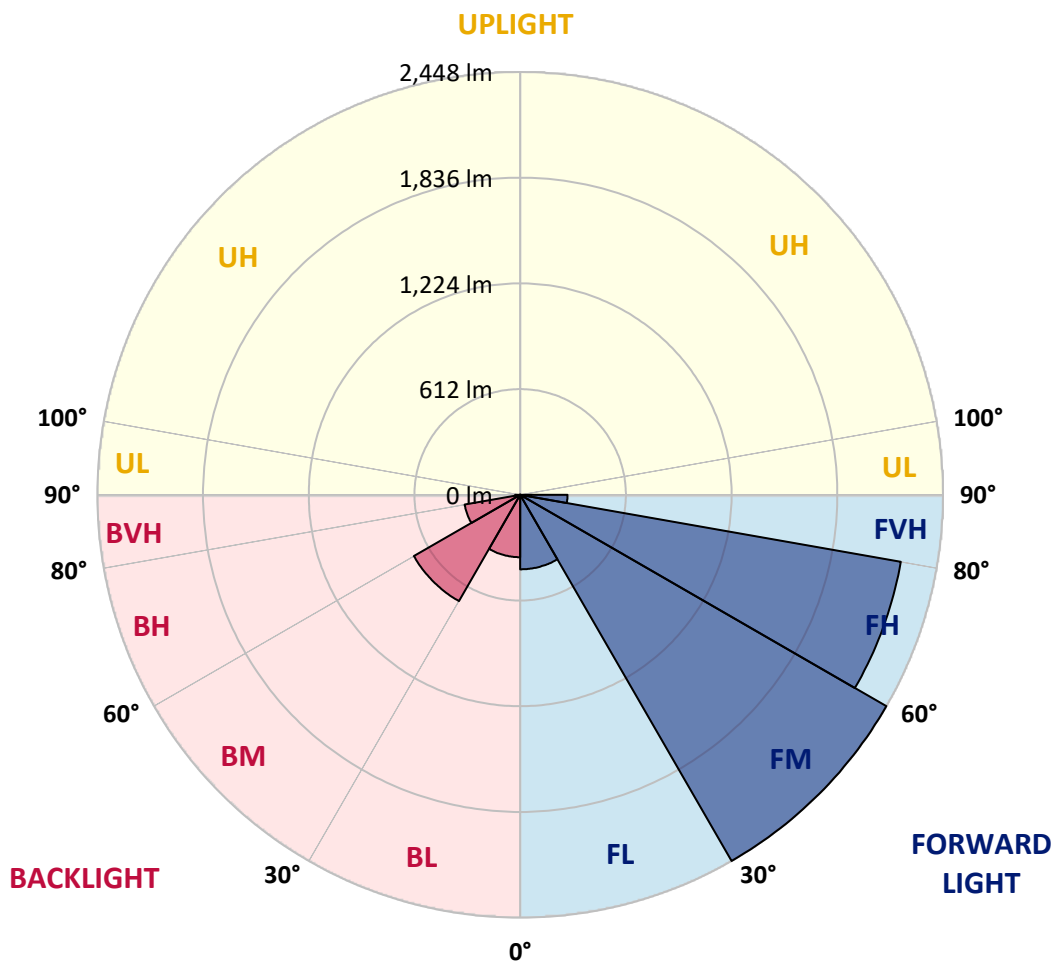
CATALOG NUMBER: LDRL-SLL-E03-E-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	431.6	6.3			
FM	(30°-60°)	2448.5	35.9			
FH	(60°-80°)	2238.0	32.8			G2/5000
FVH	(80°-90°)	274.0	4.0			G3/500
BL	(0°-30°)	361.4	5.3	B1/500		
BM	(30°-60°)	710.7	10.4	B1/1000		
BH	(60°-80°)	326.3	4.8	B1/500		G1/500
BVH	(80°-90°)	29.2	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°	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6
2.5°	836.6	837.1	835.6	835.0	834.0	834.5	834.5	833.5	833.5	834.0	832.5
5°	832.5	833.5	833.0	834.0	835.0	836.6	838.1	839.6	841.1	843.1	843.7
7.5°	828.0	831.0	831.5	834.5	838.1	842.1	847.2	852.8	860.4	862.4	866.9
10°	830.5	836.1	839.1	845.2	850.7	858.3	867.5	873.0	882.6	886.2	892.8
12.5°	850.2	854.3	858.3	865.4	873.5	883.2	893.3	901.9	912.0	915.6	918.1
15°	887.7	891.8	896.3	903.4	912.0	923.7	938.3	949.0	961.1	970.3	976.8
17.5°	939.9	939.9	950.5	952.5	969.2	987.0	1005.2	1026.0	1038.6	1046.2	1058.4
20°	1014.8	1014.8	1029.0	1035.6	1049.8	1072.5	1097.4	1120.1	1138.4	1153.6	1164.7
22.5°	1144.5	1138.9	1151.0	1149.5	1166.7	1200.7	1225.0	1237.6	1261.9	1271.1	1285.7
25°	1294.9	1314.6	1327.8	1327.8	1334.9	1369.8	1390.1	1399.7	1422.0	1415.4	1430.6
27.5°	1479.2	1532.3	1581.5	1601.7	1592.1	1630.6	1637.7	1646.8	1644.3	1628.6	1624.0
30°	1660.5	1754.2	1830.6	1877.2	1930.9	2005.3	2005.3	2017.5	1991.1	1947.6	1921.8
32.5°	1786.1	1906.6	2023.6	2120.3	2211.4	2325.4	2373.5	2440.3	2451.5	2468.2	2410.4
35°	1889.4	2058.5	2184.1	2329.4	2440.8	2556.3	2684.4	2800.4	2877.3	2864.7	2841.9
37.5°	1960.3	2177.5	2352.7	2523.4	2693.0	2825.2	2946.7	3098.1	3245.5	3274.9	3213.1
40°	2009.9	2261.6	2502.6	2712.2	2925.4	3123.9	3271.8	3434.4	3665.3	3763.0	3712.4
42.5°	2033.7	2327.4	2596.3	2863.2	3133.1	3383.7	3569.1	3791.9	4065.8	4233.0	4177.2
45°	2043.8	2367.9	2672.2	2976.1	3300.2	3609.6	3848.6	4101.3	4409.7	4678.1	4688.2
47.5°	2041.3	2389.7	2724.4	3056.6	3431.3	3791.4	4111.9	4398.5	4748.0	5030.0	5134.8
50°	2034.2	2397.3	2755.8	3105.2	3513.9	3924.6	4285.6	4626.4	5016.9	5373.9	5533.4
52.5°	2033.7	2398.8	2771.5	3132.1	3562.5	4006.1	4394.5	4797.1	5225.0	5598.2	5846.8
55°	2045.8	2407.9	2788.7	3150.8	3588.8	4052.2	4455.8	4903.9	5315.6	5739.5	6060.5
57.5°	2095.0	2450.4	2829.7	3182.7	3618.2	4088.6	4503.4	4934.8	5342.5	5798.2	6184.6
60°	2202.8	2529.9	2901.1	3241.4	3694.7	4184.3	4548.4	4891.3	5291.8	5781.5	6202.3
62.5°	2370.9	2657.6	3000.9	3349.8	3850.1	4366.1	4567.2	4791.5	5166.7	5685.3	6125.9
63°	2414.0	2691.5	3027.2	3379.7	3895.2	4400.6	4565.7	4765.2	5132.3	5656.9	6091.4
65°	2593.8	2848.5	3149.8	3522.5	4100.3	4509.9	4510.5	4610.2	4956.6	5500.5	5950.1
67.5°	2864.2	3107.2	3340.2	3710.9	4327.1	4564.6	4346.9	4271.4	4577.8	5169.3	5591.6
70°	3044.4	3344.7	3475.4	3760.5	4358.0	4498.3	4088.1	3836.4	4090.7	4584.9	4960.1
72.5°	3049.0	3391.3	3429.3	3548.8	4068.9	4181.3	3642.5	3301.7	3454.6	3869.4	4066.9
75°	2723.4	3153.8	3075.8	3031.8	3313.3	3361.4	2946.2	2804.4	3000.4	3245.5	3146.7
77.5°	2024.6	2596.8	2438.3	2250.9	2353.2	2360.3	2373.5	2640.8	2881.4	2981.7	2837.8
80°	1256.4	1907.6	1786.1	1477.2	1516.7	1633.1	1982.5	2455.0	2718.3	2790.2	2502.6
82.5°	757.6	1403.2	1338.4	1127.2	1176.9	1467.0	1853.4	1984.1	2072.7	2066.1	1768.8
85°	555.0	953.0	1041.1	1056.8	1233.1	1424.5	1416.4	1319.7	1265.5	1113.6	950.5
87.5°	174.7	491.7	583.4	680.1	744.9	704.9	693.3	599.1	428.9	362.6	398.5
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°	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6
2.5°	832.5	834.5	835.6	835.0	835.6	835.6	838.6	837.6	838.6	838.1	841.1
5°	845.2	848.2	850.7	850.7	851.2	852.3	856.3	856.3	858.3	862.4	864.4
7.5°	870.0	874.0	874.5	875.6	878.6	877.1	879.6	880.6	882.1	884.2	886.7
10°	895.8	901.4	901.4	900.9	901.4	897.3	898.9	895.8	896.3	899.4	902.4
12.5°	924.7	927.7	925.7	924.2	924.2	916.6	915.6	911.5	909.5	910.0	911.0
15°	982.4	979.9	979.4	976.8	967.7	962.1	958.1	945.4	938.9	935.3	929.2
17.5°	1059.4	1060.9	1058.4	1055.8	1042.7	1023.9	1015.8	1002.2	993.0	983.9	972.8
20°	1171.8	1161.7	1160.7	1152.6	1134.3	1108.0	1088.2	1066.0	1053.3	1040.1	1028.5
22.5°	1295.9	1285.2	1278.1	1262.4	1235.6	1202.2	1169.3	1140.9	1121.7	1112.0	1103.9
25°	1433.6	1427.5	1415.9	1375.9	1354.6	1316.1	1280.2	1252.3	1230.5	1222.4	1208.3
27.5°	1598.7	1603.2	1581.5	1544.0	1517.2	1463.0	1432.1	1384.0	1365.7	1336.4	1318.1
30°	1899.5	1870.1	1833.1	1775.9	1721.7	1648.8	1597.7	1547.5	1520.7	1481.2	1432.6
32.5°	2391.2	2279.3	2180.0	2058.5	1943.5	1850.4	1776.4	1713.1	1672.1	1606.8	1524.2
35°	2787.7	2679.8	2515.8	2339.0	2188.1	2068.6	1975.4	1915.7	1833.7	1729.3	1609.8
37.5°	3078.4	2954.3	2800.9	2665.7	2501.1	2367.9	2241.8	2117.7	2002.3	1844.3	1691.9
40°	3550.3	3382.2	3129.5	2970.0	2835.3	2655.0	2537.0	2369.9	2194.2	1990.6	1769.8
42.5°	4017.2	3794.4	3565.5	3382.2	3190.8	2995.3	2833.3	2608.9	2375.5	2111.7	1839.7
45°	4559.6	4286.6	3987.4	3731.1	3534.6	3304.7	3097.1	2821.6	2523.9	2210.9	1900.5
47.5°	4987.0	4716.6	4378.8	4120.5	3855.7	3596.4	3327.0	2987.2	2634.3	2291.9	1957.2
50°	5396.6	5135.9	4776.8	4459.8	4155.5	3842.5	3516.9	3104.7	2720.9	2355.2	2002.3
52.5°	5764.3	5532.4	5144.5	4765.7	4425.4	4064.8	3661.2	3214.6	2803.9	2420.6	2037.7
55°	6075.7	5858.5	5510.6	5039.1	4652.8	4253.7	3797.5	3314.9	2891.5	2488.9	2063.6
57.5°	6284.9	6159.3	5787.6	5279.7	4839.6	4414.7	3900.3	3415.6	2973.5	2531.5	2074.7
60°	6382.1	6365.4	6050.9	5496.9	5005.7	4540.3	4029.9	3522.5	3027.7	2550.7	2059.0
62.5°	6361.8	6481.3	6251.4	5645.8	5111.5	4618.8	4112.9	3568.6	3014.1	2504.1	1989.6
63°	6343.1	6486.4	6279.8	5660.5	5120.2	4626.4	4121.0	3563.0	3001.4	2483.4	1965.8
65°	6205.9	6426.7	6286.9	5634.1	5080.7	4604.6	4084.6	3475.4	2875.3	2352.7	1831.1
67.5°	5869.6	6090.9	6013.4	5344.0	4824.9	4370.7	3829.9	3177.1	2566.4	2075.2	1581.5
70°	5175.4	5373.4	5280.7	4691.7	4209.7	3887.6	3373.6	2642.4	2090.9	1668.1	1203.7
72.5°	4093.7	4233.0	4253.2	3785.3	3416.1	3222.7	2717.8	1993.2	1527.3	1161.7	781.4
75°	3031.3	2998.9	3005.5	2744.2	2593.8	2512.2	2031.7	1367.3	1029.0	710.0	463.4
77.5°	2547.7	2314.7	2116.2	2043.8	1868.6	1818.0	1339.9	839.1	600.6	424.9	263.8
80°	2071.7	1718.7	1430.1	1301.9	1233.6	1243.7	741.4	447.1	314.5	231.4	165.1
82.5°	1416.4	1148.0	905.4	786.4	774.3	785.9	385.4	219.3	166.1	133.2	103.8
85°	837.6	788.5	703.9	624.9	597.5	564.1	286.6	157.0	85.6	70.9	58.2
87.5°	362.1	444.6	455.2	453.2	421.8	338.8	105.3	40.5	36.0	18.2	14.7
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6
2.5°	841.1	841.6	840.6	841.6	845.2	845.2	844.7	845.7	846.2	849.2	848.2
5°	866.4	866.9	867.5	871.0	873.5	876.6	875.6	876.6	878.6	879.1	880.1
7.5°	889.7	892.8	896.8	898.3	902.9	903.9	908.5	909.0	910.0	908.0	905.9
10°	905.9	909.0	914.0	916.6	924.7	925.7	929.2	930.2	932.3	930.8	929.2
12.5°	914.0	916.6	922.1	927.2	938.3	941.9	948.0	951.5	954.0	952.5	947.5
15°	930.8	930.2	933.3	937.3	947.5	954.0	962.7	967.2	970.3	967.7	961.1
17.5°	969.2	962.1	962.1	959.6	967.2	968.7	972.3	974.8	973.8	966.2	955.6
20°	1022.4	1011.8	1005.2	999.1	996.6	983.9	977.3	968.2	960.1	946.5	934.3
22.5°	1091.3	1083.7	1068.5	1054.8	1035.6	1009.8	981.9	958.1	940.4	921.6	900.9
25°	1195.6	1178.4	1156.6	1124.2	1099.4	1053.8	1007.2	962.1	924.2	894.8	859.9
27.5°	1293.8	1257.4	1216.4	1165.7	1120.1	1059.4	1000.1	948.0	898.3	851.2	811.2
30°	1375.9	1312.6	1245.7	1174.8	1110.0	1036.6	967.7	908.5	852.3	796.6	758.6
32.5°	1437.7	1346.5	1257.4	1166.7	1086.7	1000.6	921.6	858.3	794.5	735.8	691.7
35°	1493.4	1370.3	1253.8	1145.0	1050.3	955.1	870.0	799.1	729.2	666.4	615.8
37.5°	1533.4	1378.4	1238.6	1113.6	1003.7	899.4	807.2	731.7	656.8	593.0	537.3
40°	1564.3	1374.4	1209.8	1065.5	939.9	831.5	741.4	662.4	587.4	523.6	465.4
42.5°	1585.0	1359.2	1166.2	1010.8	886.7	773.3	685.2	602.1	527.2	460.3	396.0
45°	1611.9	1353.1	1139.4	969.7	838.6	724.1	630.0	548.9	470.9	401.1	339.8
47.5°	1637.2	1349.5	1117.6	935.8	795.0	679.6	586.4	501.3	422.8	354.5	298.8
50°	1652.4	1344.0	1094.8	894.8	746.4	634.0	544.9	458.8	379.8	314.5	264.8
52.5°	1656.9	1332.8	1064.9	848.2	704.4	595.0	502.3	416.3	340.3	281.6	235.5
55°	1653.4	1311.1	1024.4	810.2	661.4	552.0	459.3	375.7	306.9	251.7	214.7
57.5°	1636.2	1267.5	972.3	762.1	612.2	497.8	406.6	330.2	268.9	224.8	196.5
60°	1597.7	1204.7	908.5	694.8	541.8	433.5	347.4	281.6	229.9	198.0	179.3
62.5°	1513.6	1114.1	815.8	599.6	447.7	347.9	272.9	224.3	189.4	172.7	161.5
63°	1488.8	1082.7	788.5	574.3	431.4	328.7	256.2	212.2	180.8	167.1	158.0
65°	1358.2	937.8	666.4	461.8	334.2	249.1	195.5	166.6	149.9	144.8	142.3
67.5°	1113.1	729.7	468.9	309.9	224.3	172.2	144.3	133.2	127.1	126.6	128.1
70°	786.4	484.1	290.2	198.5	154.5	130.1	119.5	114.4	111.4	112.4	115.5
72.5°	511.5	284.1	183.3	145.3	125.6	114.4	106.8	105.3	104.3	103.3	104.3
75°	270.4	177.7	138.8	121.5	109.9	100.8	95.7	93.7	94.2	94.2	94.2
77.5°	167.6	135.2	118.5	107.4	98.2	89.1	84.1	82.5	83.0	84.1	84.6
80°	128.6	118.0	104.3	96.2	83.0	75.5	72.9	72.4	73.4	73.4	74.9
82.5°	94.2	91.2	86.1	76.0	65.8	60.8	60.3	62.3	60.3	59.8	60.8
85°	55.2	51.7	56.2	48.1	44.1	41.0	43.0	47.1	49.1	46.6	45.6
87.5°	17.7	12.2	17.7	19.7	17.7	15.2	19.2	22.8	23.3	22.3	25.3
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: P145738

CATALOG NUMBER: LDRL-SLL-E03-E-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6
2.5°	847.7	851.2	847.7	849.2	848.7	847.7	849.2	847.2	846.2	849.2	848.7
5°	879.6	880.1	875.6	876.1	875.6	871.5	871.5	869.5	866.9	867.5	866.4
7.5°	905.4	904.4	900.9	899.4	894.8	891.8	889.7	886.7	884.7	882.6	881.6
10°	925.2	922.7	920.1	915.6	911.0	908.5	902.9	898.3	896.8	893.8	891.8
12.5°	942.4	937.8	933.8	928.2	922.7	918.6	912.0	908.5	905.9	901.9	898.9
15°	952.0	943.4	935.8	927.2	921.1	915.1	907.5	905.9	902.4	898.3	892.8
17.5°	940.4	928.2	914.0	904.9	895.8	886.7	879.1	879.1	877.6	873.0	863.4
20°	916.6	898.3	881.6	866.9	857.8	844.7	840.1	833.0	828.0	819.9	807.7
22.5°	877.6	858.3	836.6	821.9	806.2	791.5	782.4	771.2	767.2	754.0	737.8
25°	834.0	806.2	782.9	763.6	741.9	724.7	712.0	696.8	686.7	674.0	653.8
27.5°	782.4	753.5	727.2	705.9	683.1	659.3	636.0	618.3	600.1	585.4	573.7
30°	726.7	696.8	664.4	639.6	613.2	583.4	564.1	540.3	526.1	509.9	494.7
32.5°	653.8	627.4	589.4	560.6	528.2	504.9	489.2	466.4	449.7	436.0	427.4
35°	573.7	534.2	496.3	474.5	452.2	433.5	411.7	394.0	382.8	368.7	361.1
37.5°	486.6	440.6	408.2	388.9	366.1	357.0	343.3	332.7	322.6	313.0	306.9
40°	408.7	366.1	336.8	320.5	305.4	295.2	286.6	282.1	275.5	267.9	263.3
42.5°	343.8	309.9	281.0	265.9	254.2	253.2	247.6	244.1	241.6	237.0	229.9
45°	293.2	262.3	237.5	225.3	220.3	220.8	220.8	217.7	217.7	216.2	211.7
47.5°	259.3	231.4	213.2	205.1	203.1	203.6	202.1	201.0	201.5	201.0	198.5
50°	232.9	209.1	193.9	190.9	190.4	189.9	187.9	186.4	185.8	186.9	186.4
52.5°	206.1	186.4	177.7	176.7	177.2	177.2	176.7	176.2	177.2	178.3	176.7
55°	190.9	176.7	171.2	171.2	171.2	171.2	170.7	170.1	171.7	173.2	170.7
57.5°	176.7	166.6	164.6	164.6	164.6	163.6	163.6	164.1	166.1	169.1	166.1
60°	166.1	161.0	161.0	161.5	161.0	159.0	157.5	157.5	160.0	164.1	161.5
62.5°	156.0	153.4	154.5	153.9	152.9	150.4	148.4	148.4	151.4	155.5	156.5
63°	153.4	151.4	152.4	151.9	150.9	148.9	146.9	146.9	149.4	153.4	155.0
65°	142.3	142.8	143.3	143.8	143.3	142.8	140.3	139.3	141.3	144.3	146.3
67.5°	129.1	130.1	131.2	133.7	132.7	132.7	131.2	130.1	130.6	132.2	133.7
70°	117.0	118.0	119.5	120.5	121.0	121.5	120.5	119.0	119.5	120.0	121.0
72.5°	105.3	106.3	107.4	109.4	109.4	109.4	108.4	107.4	107.9	108.9	109.9
75°	94.7	95.2	96.2	97.7	98.2	97.2	97.2	96.2	96.7	98.2	99.3
77.5°	84.1	83.0	83.6	84.6	86.1	86.1	86.6	86.1	87.1	88.1	89.1
80°	71.9	70.9	69.9	70.4	72.4	74.9	77.5	77.5	79.0	79.5	81.0
82.5°	57.2	56.2	55.7	57.2	56.7	60.3	65.8	68.9	70.9	72.9	73.9
85°	44.6	42.0	43.0	43.0	42.0	47.6	52.7	56.7	57.2	60.3	60.8
87.5°	26.3	25.3	24.3	23.3	26.8	32.4	37.0	38.5	39.5	41.0	42.5
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6
2.5°	844.7	848.7	847.7	847.2	847.7	847.2	845.7	846.2	845.2	845.7	844.7
5°	860.9	862.9	861.4	858.8	858.8	855.3	852.8	850.7	848.2	847.2	845.2
7.5°	876.6	875.0	873.0	868.5	865.9	861.4	857.8	853.8	851.2	848.2	844.7
10°	886.2	883.2	879.1	873.5	866.4	862.4	857.3	851.2	848.2	846.7	843.1
12.5°	890.7	882.6	876.1	865.9	855.8	848.2	842.6	836.6	835.0	833.0	830.5
15°	880.1	868.5	851.8	838.1	824.9	814.3	809.7	803.1	801.6	801.1	800.6
17.5°	844.2	826.4	810.2	792.0	780.4	770.7	766.7	765.2	762.6	761.6	762.1
20°	786.4	771.2	755.0	749.0	735.3	732.8	726.7	722.6	718.1	716.5	714.0
22.5°	719.1	700.3	690.2	685.7	680.1	666.9	663.9	659.8	653.8	649.2	648.2
25°	640.6	625.4	624.9	614.3	609.7	602.6	594.5	589.4	585.9	580.3	576.3
27.5°	560.6	555.0	545.4	537.3	534.2	530.2	518.0	515.5	511.5	506.9	502.3
30°	486.1	482.1	473.0	465.4	460.8	452.7	441.1	442.1	434.0	427.9	423.9
32.5°	413.7	410.7	402.1	400.1	385.4	381.3	369.2	360.0	351.9	345.9	340.8
35°	348.4	340.3	340.8	331.7	323.6	311.4	298.8	287.1	280.5	277.5	272.9
37.5°	301.3	293.7	286.1	276.0	266.9	258.3	250.7	247.1	243.1	244.1	244.6
40°	258.8	253.2	247.6	240.5	235.0	231.4	229.4	229.4	229.9	232.4	234.5
42.5°	228.4	223.8	220.8	218.3	219.3	219.3	220.8	223.3	225.9	229.4	231.4
45°	208.1	205.6	204.6	205.6	208.6	211.2	214.7	218.8	222.8	226.4	227.9
47.5°	196.0	194.5	194.5	197.0	201.5	205.6	211.2	215.2	219.8	222.8	223.8
50°	182.8	182.3	182.3	184.3	188.4	193.4	199.0	203.1	207.1	209.6	210.7
52.5°	175.2	173.7	173.2	175.7	179.3	184.3	189.9	193.9	197.0	199.0	199.5
55°	168.6	167.1	166.1	169.1	173.2	177.7	184.3	188.9	191.9	194.5	196.5
57.5°	163.1	161.5	160.5	164.1	168.1	173.7	179.3	184.3	188.4	191.4	193.4
60°	158.5	156.5	155.5	159.5	163.6	169.1	174.7	180.3	185.8	189.4	190.4
62.5°	152.9	151.4	149.9	152.4	154.5	158.5	163.6	169.1	174.2	177.7	177.7
63°	151.4	150.9	148.9	150.9	152.9	156.5	161.5	166.6	171.7	175.7	175.2
65°	144.8	144.8	143.8	145.8	147.9	151.4	155.5	161.0	165.6	168.6	169.1
67.5°	134.2	134.7	135.7	137.7	141.8	145.3	149.9	155.0	159.0	161.0	162.0
70°	122.0	123.1	125.1	128.1	131.7	134.7	137.7	142.8	146.3	148.4	149.4
72.5°	110.4	112.9	114.4	117.0	119.0	122.0	124.6	129.6	132.7	134.2	136.7
75°	99.8	101.8	102.8	104.3	106.3	107.4	110.4	112.4	116.5	118.5	121.5
77.5°	89.6	90.6	92.2	94.7	95.2	96.7	97.7	100.8	102.8	104.8	107.4
80°	80.5	81.5	83.6	85.1	85.6	86.6	87.1	86.6	86.1	84.6	86.6
82.5°	72.4	73.4	76.0	77.5	79.0	79.0	78.5	72.9	70.4	71.4	72.9
85°	59.8	60.8	63.3	66.3	66.8	66.3	66.8	61.3	57.7	56.2	57.7
87.5°	37.5	36.5	45.1	49.1	46.1	47.1	47.6	44.6	41.5	35.4	37.0
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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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	0°
2.5°	845.7	842.1	842.6	843.7	843.7	845.2	843.1	840.6	842.1	839.6	839.1	2.5°
5°	845.2	840.6	840.6	841.6	840.6	841.6	840.1	837.6	839.1	836.1	835.6	5°
7.5°	843.1	840.6	841.6	842.6	841.1	841.6	841.1	837.6	838.1	836.6	833.0	7.5°
10°	842.1	840.6	842.6	845.7	845.7	846.2	844.7	840.6	838.1	836.6	833.5	10°
12.5°	831.5	833.5	837.6	844.7	847.2	851.2	853.3	851.2	852.3	850.2	849.2	12.5°
15°	801.1	806.2	812.8	823.4	831.0	840.1	851.2	856.3	865.9	873.5	878.6	15°
17.5°	764.7	768.2	775.3	787.4	797.1	815.3	830.5	847.7	866.4	886.7	904.4	17.5°
20°	719.6	717.1	728.2	741.4	758.1	778.3	800.6	826.4	857.3	889.7	920.6	20°
22.5°	653.2	653.2	664.9	680.6	700.9	724.1	755.0	782.9	823.4	870.5	916.1	22.5°
25°	577.3	578.8	586.9	604.6	618.8	652.2	681.1	717.1	765.7	817.3	878.1	25°
27.5°	496.3	506.4	504.4	523.1	541.8	574.8	614.3	650.7	704.9	760.1	829.5	27.5°
30°	422.8	421.3	420.8	443.1	461.8	491.7	524.1	570.2	624.9	695.8	775.8	30°
32.5°	331.7	337.3	341.3	354.5	374.7	402.6	437.5	485.6	551.5	622.9	713.0	32.5°
35°	274.0	275.5	281.0	288.6	306.4	329.7	366.1	408.7	466.4	540.3	636.0	35°
37.5°	245.6	247.1	253.2	260.3	272.9	290.2	315.0	347.9	401.1	469.9	559.1	37.5°
40°	236.5	238.0	241.6	248.1	259.8	274.5	294.2	319.5	358.0	411.7	489.7	40°
42.5°	232.4	232.4	232.9	238.0	249.7	266.9	288.1	310.9	339.3	379.8	443.1	42.5°
45°	227.9	227.9	227.4	230.9	240.0	259.8	285.6	313.5	344.3	379.3	428.9	45°
47.5°	223.8	222.8	221.8	223.3	230.9	251.2	281.0	315.0	354.5	398.0	448.2	47.5°
50°	209.6	209.6	209.1	209.6	216.7	238.0	272.4	313.5	363.6	419.8	480.6	50°
52.5°	199.5	200.0	200.5	200.5	206.1	227.9	265.9	314.0	373.7	441.1	518.0	52.5°
55°	197.0	198.0	198.0	197.0	201.5	221.3	259.8	312.4	380.8	464.9	558.0	55°
57.5°	193.9	194.5	195.0	193.9	197.0	214.2	251.2	305.4	378.8	474.0	587.9	57.5°
60°	189.9	187.9	187.4	185.8	187.9	201.5	236.0	290.2	366.6	469.9	598.1	60°
62.5°	178.8	177.2	175.7	174.2	175.7	185.8	219.3	271.4	346.4	453.7	589.9	62.5°
63°	176.2	175.2	173.7	172.2	172.2	183.3	213.7	266.9	341.3	449.2	586.9	63°
65°	169.1	168.6	167.6	166.1	165.6	174.2	201.0	246.1	317.5	428.9	567.7	65°
67.5°	161.0	161.0	160.5	158.5	156.0	161.0	179.8	215.2	276.0	376.8	520.1	67.5°
70°	149.4	149.4	148.9	147.9	144.8	148.4	160.5	183.8	227.4	307.9	436.0	70°
72.5°	137.7	137.7	139.3	138.8	139.3	139.8	145.8	158.5	184.8	239.5	329.7	72.5°
75°	122.5	125.1	125.6	126.6	127.1	126.6	129.6	137.2	152.4	183.8	240.5	75°
77.5°	109.9	113.4	112.9	111.9	111.4	111.9	111.4	115.0	126.1	145.8	178.3	77.5°
80°	90.6	94.2	94.2	93.7	92.7	93.7	92.7	96.2	105.3	122.5	141.8	80°
82.5°	74.4	77.0	78.5	79.5	78.5	82.5	82.5	81.5	88.6	103.8	119.5	82.5°
85°	59.8	62.3	63.8	65.8	66.8	65.8	65.3	64.3	68.4	80.5	91.2	85°
87.5°	38.0	40.0	40.0	40.5	40.5	42.0	39.0	35.4	32.4	46.1	48.1	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°
837.6	837.6	837.6	837.6	837.6	837.6	837.6
837.6	837.6	838.1	836.6	838.1	838.1	836.6
834.0	833.0	833.0	832.5	833.5	833.0	832.5
831.0	831.0	829.0	827.4	826.9	829.0	828.0
830.0	829.0	828.5	827.4	828.0	829.5	830.5
848.2	844.7	845.7	845.2	845.7	847.2	850.2
881.6	881.6	884.2	878.6	881.1	883.7	887.7
919.1	928.2	932.8	932.3	933.3	935.3	939.9
951.0	979.9	1000.1	1005.2	1018.9	1021.9	1014.8
965.2	1016.8	1062.4	1092.8	1126.7	1140.4	1144.5
936.3	1010.8	1085.7	1155.6	1222.4	1260.9	1294.9
906.4	994.6	1094.3	1198.6	1307.5	1405.8	1479.2
864.9	981.4	1116.1	1256.9	1401.2	1537.9	1660.5
819.3	960.1	1118.1	1289.3	1467.5	1637.7	1786.1
754.0	910.5	1085.7	1284.2	1490.8	1704.0	1889.4
679.1	831.5	1028.0	1254.8	1489.3	1737.9	1960.3
599.1	755.0	961.6	1204.7	1469.6	1748.6	2009.9
538.8	693.3	895.8	1157.1	1440.2	1741.5	2033.7
507.9	640.1	842.1	1110.5	1407.3	1724.3	2043.8
514.0	625.9	810.2	1072.0	1377.9	1705.5	2041.3
547.9	647.2	809.7	1057.9	1359.2	1688.3	2034.2
599.1	695.3	839.1	1074.6	1369.3	1686.8	2033.7
656.8	762.6	910.0	1119.6	1412.3	1714.1	2045.8
712.5	844.7	1001.1	1220.4	1493.9	1782.5	2095.0
745.4	919.6	1118.1	1362.7	1619.4	1902.5	2202.8
753.0	964.7	1221.9	1502.5	1791.6	2076.2	2370.9
752.5	969.2	1239.7	1531.3	1826.6	2116.2	2414.0
740.9	978.4	1287.3	1626.5	1966.8	2287.9	2593.8
704.4	962.1	1313.6	1715.2	2106.1	2477.3	2864.2
620.8	888.2	1282.7	1744.0	2189.1	2602.9	3044.4
486.1	732.8	1107.5	1594.1	2076.7	2490.4	3049.0
341.8	518.0	852.3	1309.0	1697.4	2104.6	2723.4
238.0	335.7	553.5	880.6	1225.0	1535.4	2024.6
174.2	223.3	331.7	526.7	743.4	959.6	1256.4
134.2	161.0	212.2	318.0	419.8	537.3	757.6
94.2	106.3	131.2	196.5	281.6	384.4	555.0
41.0	48.1	63.3	116.0	190.4	183.3	174.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)