

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: P163250

Luminaire Tested: **LDRL-SL2-F03-E-8030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P163250
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRL-SL2-F03-E-8030-HSS
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3717.5 lumens
Efficiency: N/A
Efficacy: 47.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

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

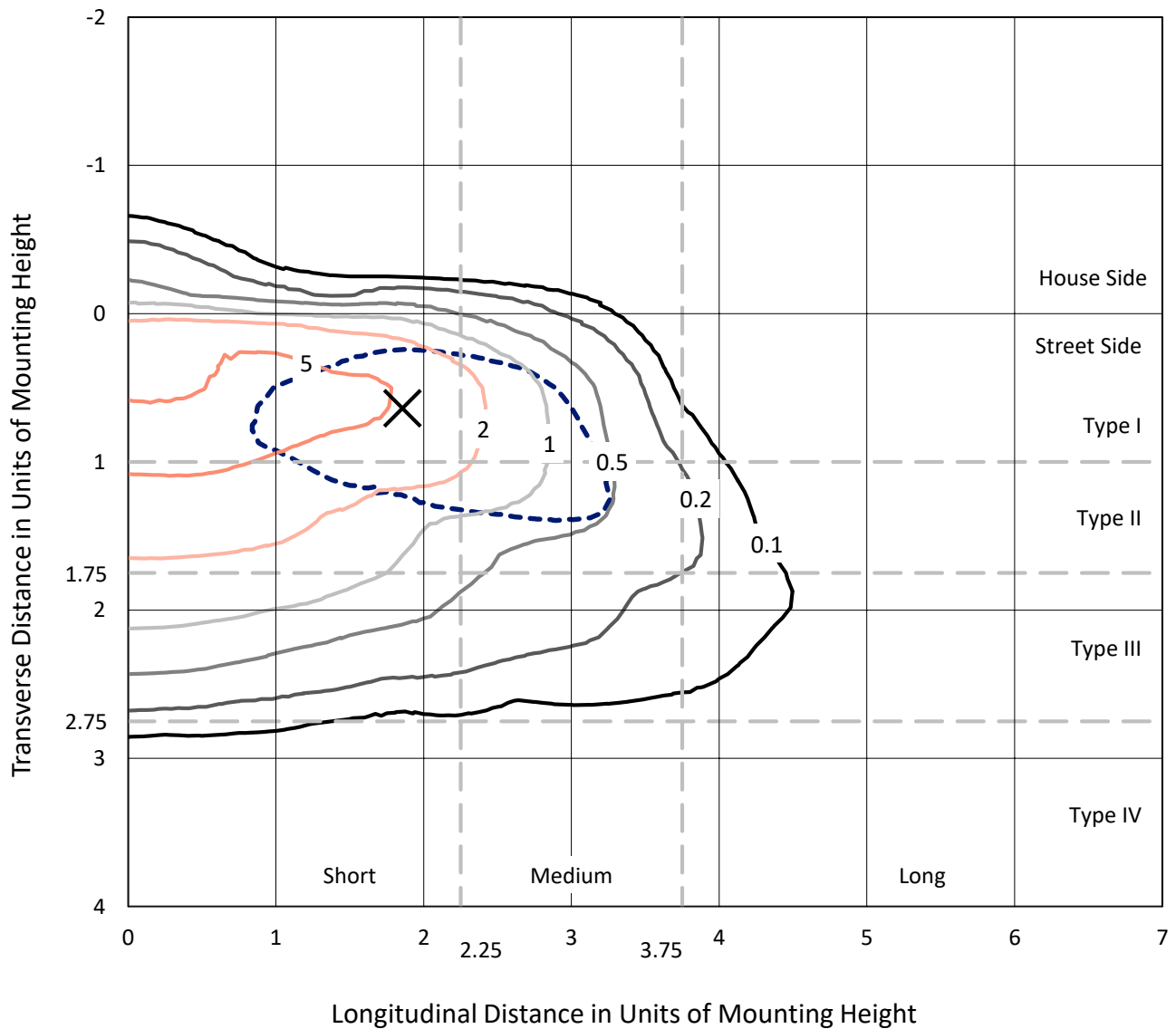


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Iso-Footcandle Lines of Horizontal Illumination

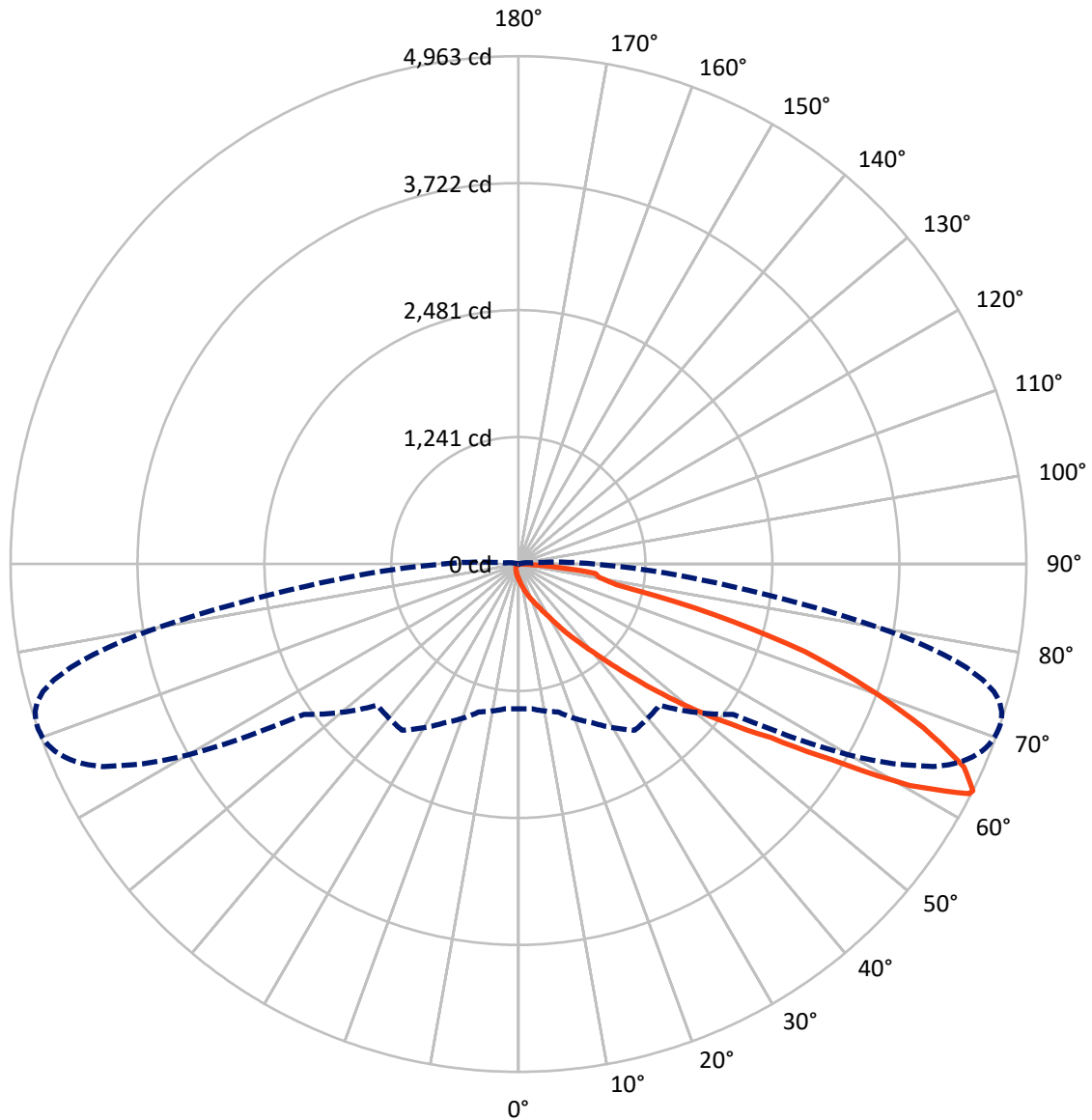
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	78.9	0.0	78.9
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	3638.6	0.0	3638.6
	% Fixture	97.9	0.0	97.9
Total	Lumens	3717.5	0.0	3717.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.8	0.4
10°-20°	61.1	1.6
20°-30°	124.2	3.3
30°-40°	303.3	8.2
40°-50°	678.4	18.2
50°-60°	953.9	25.7
60°-70°	1121.7	30.2
70°-80°	405.0	10.9
80°-90°	54.2	1.5
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°	3717.5	100.0
0°-180°	3717.5	100.0



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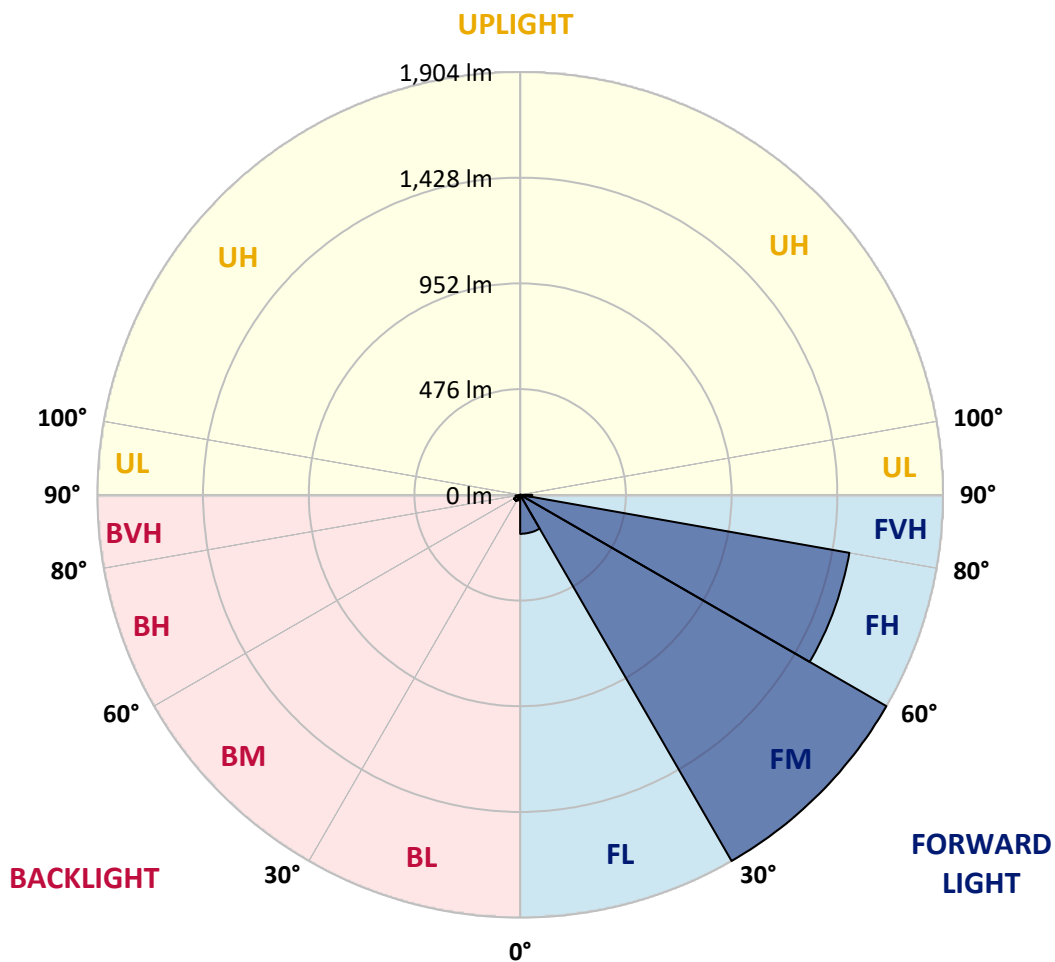
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	175.7	4.7			
FM (30°-60°)	1903.8	51.2			
FH (60°-80°)	1505.1	40.5			G1/1800
FVH (80°-90°)	54.0	1.5			G1/100
BL (0°-30°)	25.4	0.7	B0/110		
BM (30°-60°)	31.8	0.9	B0/220		
BH (60°-80°)	21.6	0.6	B0/110		G0/110
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6
2.5°	186.5	188.5	187.2	183.8	179.8	174.4	169.6	169.6	169.0	166.9	167.6
5°	244.6	245.3	242.6	234.5	227.1	215.6	202.8	201.4	200.0	198.0	197.4
7.5°	301.4	304.1	301.4	292.6	277.7	260.2	239.9	237.9	233.9	233.9	231.1
10°	359.6	359.6	356.8	346.7	333.2	308.2	282.5	279.1	274.4	273.0	269.0
12.5°	400.8	400.8	399.4	394.0	383.2	360.9	329.8	326.4	320.3	318.3	313.6
15°	417.0	417.0	417.7	422.4	423.1	412.9	380.5	377.8	371.7	366.3	364.3
17.5°	427.1	426.4	426.4	433.2	445.4	452.1	431.2	428.5	421.7	419.0	412.3
20°	449.4	448.1	444.0	444.0	455.5	479.2	479.2	478.5	471.0	469.0	465.7
22.5°	482.5	481.2	469.0	458.9	464.3	494.0	521.8	520.4	517.7	515.0	512.9
25°	536.6	531.9	510.9	481.2	476.4	508.2	554.2	557.5	559.6	559.6	560.9
27.5°	618.4	612.3	575.1	519.7	498.8	531.2	590.0	596.8	602.9	604.2	610.3
30°	731.9	721.1	667.7	586.6	538.6	565.0	642.7	650.1	658.9	661.6	671.1
32.5°	918.4	912.4	861.0	739.3	636.6	631.2	716.4	725.8	737.3	742.1	753.6
35°	1202.3	1203.7	1161.7	1052.3	910.3	836.0	848.2	856.3	860.3	874.5	880.6
37.5°	1394.9	1398.3	1407.8	1364.5	1263.1	1187.4	1092.1	1100.9	1080.0	1082.0	1082.7
40°	1500.4	1511.1	1566.6	1608.5	1600.3	1556.4	1480.1	1484.8	1445.6	1436.8	1394.2
42.5°	1570.6	1584.8	1673.3	1803.1	1869.4	1909.2	1891.6	1889.6	1859.2	1847.7	1811.9
45°	1614.6	1627.4	1738.9	1930.2	2082.9	2199.1	2247.1	2252.5	2226.9	2215.4	2185.6
47.5°	1612.5	1627.4	1747.0	1977.5	2202.5	2388.4	2523.5	2530.3	2545.8	2535.7	2537.7
50°	1523.3	1537.5	1657.8	1897.0	2167.4	2474.9	2722.2	2743.9	2768.9	2785.7	2793.9
52.5°	1415.2	1425.3	1532.1	1759.2	2017.3	2439.1	2839.8	2877.0	2914.2	2945.9	2968.2
55°	1375.3	1386.8	1470.6	1659.2	1897.0	2289.0	2894.6	2949.3	3002.0	3054.0	3096.6
57.5°	1396.3	1407.1	1467.2	1611.8	1825.4	2130.9	2910.1	2995.3	3081.8	3166.2	3250.1
60°	1473.3	1484.8	1536.1	1655.8	1806.5	2039.6	2849.3	2990.5	3134.5	3281.8	3420.4
62.5°	1442.9	1447.6	1523.3	1732.8	1941.6	1961.9	2628.3	2825.6	3045.3	3272.3	3496.0
63°	1413.8	1419.3	1496.3	1711.9	1982.9	1950.5	2560.0	2768.2	3000.0	3244.6	3487.9
65°	1282.0	1282.7	1341.5	1511.8	1936.9	1970.7	2255.9	2454.6	2720.9	3014.2	3321.7
67.5°	957.0	952.3	1009.0	1138.8	1520.6	1971.4	1936.2	2047.7	2232.9	2493.1	2768.9
70°	339.3	331.8	423.7	603.5	947.5	1612.5	1663.9	1671.3	1722.7	1863.3	2036.3
72.5°	110.2	112.2	135.2	221.0	436.6	1085.4	1506.4	1483.4	1469.9	1469.2	1492.2
75°	43.9	44.6	54.1	98.0	196.0	523.1	1319.2	1332.0	1336.8	1343.5	1351.0
77.5°	20.9	23.0	30.4	54.7	97.3	258.9	944.1	1052.9	1115.1	1163.1	1192.2
80°	7.4	8.8	16.9	33.8	45.3	118.9	497.4	600.1	691.4	809.0	910.3
82.5°	0.0	0.0	3.4	23.7	25.0	48.0	204.1	239.2	273.7	354.8	455.5
85°	0.0	0.0	0.0	6.8	7.4	8.1	68.9	83.1	93.3	108.8	125.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.0	4.1	10.1	15.6
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6
2.5°	166.3	165.6	165.6	164.2	163.5	162.2	161.5	159.5	158.8	158.8	158.8
5°	196.6	194.0	192.6	189.2	187.2	186.5	183.1	181.8	179.8	180.4	177.1
7.5°	230.5	225.7	223.7	219.0	217.6	212.9	211.5	208.1	206.1	202.1	200.7
10°	267.6	261.5	258.2	250.7	248.7	245.3	241.3	237.2	233.9	229.8	227.7
12.5°	310.2	304.8	302.1	292.0	287.2	282.5	277.1	271.7	266.3	262.9	258.2
15°	360.2	351.4	348.7	339.3	331.2	325.1	317.6	310.9	306.8	300.1	295.3
17.5°	409.6	400.8	398.7	384.6	375.8	371.7	363.6	354.8	347.4	340.6	333.2
20°	458.9	452.8	447.4	433.9	424.4	417.7	406.8	398.1	392.0	382.5	373.1
22.5°	508.2	502.2	498.1	483.9	475.1	465.7	456.2	446.7	437.9	426.4	415.6
25°	558.9	554.9	552.8	540.0	531.9	523.1	513.6	502.8	492.0	479.2	467.7
27.5°	611.6	613.0	608.9	606.2	597.4	591.4	576.5	569.0	560.9	545.4	531.2
30°	678.5	682.6	681.2	683.2	677.9	673.8	662.3	652.9	643.4	628.5	612.3
32.5°	763.0	768.4	771.1	778.6	775.8	774.5	771.1	757.6	750.8	725.2	718.4
35°	893.4	890.7	902.2	908.3	905.6	904.3	900.2	892.8	884.7	866.4	849.5
37.5°	1063.1	1065.8	1069.9	1057.7	1049.6	1048.9	1036.7	1029.3	1017.8	997.5	977.3
40°	1373.9	1357.0	1338.2	1286.8	1264.5	1251.6	1215.8	1205.7	1186.1	1158.4	1137.4
42.5°	1778.1	1761.2	1704.4	1618.6	1572.6	1509.1	1480.1	1444.2	1416.5	1371.3	1346.9
45°	2179.5	2130.9	2124.1	2024.1	1967.3	1883.5	1831.5	1771.3	1708.5	1649.0	1605.8
47.5°	2518.1	2507.3	2474.2	2413.4	2360.7	2290.4	2223.5	2130.9	2066.0	1981.5	1903.8
50°	2789.1	2788.5	2776.3	2741.1	2697.2	2640.5	2581.7	2503.3	2429.6	2326.2	2243.1
52.5°	2991.9	3002.7	3006.8	2995.9	2979.0	2929.0	2899.3	2833.7	2771.6	2683.7	2593.8
55°	3140.6	3180.5	3200.7	3223.7	3219.0	3201.4	3200.0	3157.5	3129.1	3059.5	2995.9
57.5°	3324.4	3389.9	3452.8	3564.3	3568.4	3607.6	3627.8	3648.1	3653.5	3625.8	3604.9
60°	3558.2	3692.1	3811.0	4044.1	4105.0	4200.9	4263.1	4330.7	4388.1	4392.9	4391.5
62.5°	3723.1	3929.3	4121.2	4467.2	4585.5	4696.3	4779.4	4845.0	4884.9	4925.4	4944.3
63°	3727.8	3953.6	4157.7	4514.5	4638.9	4744.3	4823.4	4884.2	4926.1	4950.4	4962.6
65°	3613.6	3887.4	4130.7	4486.1	4603.1	4709.2	4750.4	4790.3	4810.5	4820.0	4784.2
67.5°	3062.9	3330.5	3614.3	4011.7	4111.7	4238.8	4272.6	4292.9	4302.3	4300.3	4269.9
70°	2290.4	2514.8	2830.3	3284.5	3417.0	3541.3	3618.4	3651.5	3662.3	3658.9	3613.6
72.5°	1599.0	1730.8	1991.0	2496.5	2677.0	2836.5	2931.7	2981.1	2991.2	2970.9	2929.0
75°	1342.9	1349.6	1408.4	1684.8	1853.8	2024.1	2131.6	2162.7	2142.4	2080.9	1974.1
77.5°	1198.9	1213.8	1213.8	1255.0	1288.1	1335.4	1345.6	1269.9	1182.0	1068.5	976.6
80°	1005.6	1057.7	1094.2	1124.6	1128.0	1118.5	1093.5	1050.9	983.3	896.8	800.8
82.5°	611.0	713.7	755.6	912.4	989.4	1041.5	1037.4	980.6	929.3	839.4	757.6
85°	154.1	166.3	180.4	234.5	262.9	321.0	357.5	374.4	380.5	349.4	316.3
87.5°	14.9	10.1	16.9	12.8	18.2	13.5	18.2	16.9	20.9	22.3	24.3
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6
2.5°	157.5	156.8	156.1	155.4	154.8	154.1	152.8	152.8	151.4	150.7	150.0
5°	175.0	173.7	173.0	171.6	169.6	168.3	166.3	163.5	161.5	160.9	159.5
7.5°	197.4	194.0	192.6	190.6	187.9	183.8	181.1	179.1	175.7	173.7	169.6
10°	222.4	219.0	214.9	210.9	206.8	202.1	198.7	196.0	190.6	187.9	183.1
12.5°	254.1	248.0	243.3	237.9	232.5	227.1	223.0	214.9	210.2	204.1	200.0
15°	286.6	281.1	275.7	269.0	260.9	252.1	248.0	240.6	234.5	225.0	219.6
17.5°	325.7	315.6	307.5	299.4	292.0	283.9	275.7	264.2	255.5	247.4	236.5
20°	364.3	352.1	343.3	332.5	321.7	308.8	299.4	291.3	279.1	268.3	256.8
22.5°	405.5	393.3	379.1	368.3	353.5	343.3	330.5	317.0	304.8	290.6	276.4
25°	455.5	442.7	426.4	412.3	395.3	381.2	365.6	350.1	335.2	319.0	300.7
27.5°	517.0	503.5	485.9	469.0	446.7	429.2	414.3	393.3	374.4	354.1	333.2
30°	594.7	579.9	558.3	533.9	511.6	492.0	471.0	443.3	422.4	398.1	371.0
32.5°	696.1	678.5	649.5	626.5	598.8	573.1	544.0	516.3	486.6	454.8	423.7
35°	823.8	807.6	773.8	740.0	709.6	679.2	642.7	611.0	569.0	530.5	490.7
37.5°	956.3	927.2	896.2	859.7	821.8	785.3	740.7	696.8	648.8	606.9	556.9
40°	1107.7	1072.5	1046.9	1007.6	954.3	902.2	861.0	806.3	746.1	690.0	631.2
42.5°	1315.2	1275.9	1230.0	1170.5	1132.0	1071.2	1017.8	952.9	873.8	811.0	740.0
45°	1555.1	1501.7	1457.1	1399.6	1353.0	1277.3	1215.1	1128.6	1049.6	967.1	880.6
47.5°	1828.8	1762.5	1697.7	1640.9	1566.6	1492.2	1413.1	1321.3	1219.9	1129.3	1026.6
50°	2143.0	2049.1	1959.2	1886.2	1784.2	1698.3	1612.5	1509.1	1396.9	1292.9	1176.0
52.5°	2492.4	2383.6	2264.7	2152.5	2034.2	1924.1	1820.7	1701.7	1576.7	1449.6	1319.2
55°	2914.2	2832.4	2692.5	2549.9	2391.7	2244.4	2111.3	1964.0	1811.9	1645.0	1507.7
57.5°	3574.5	3534.6	3417.7	3275.1	3068.9	2889.8	2664.1	2483.7	2263.4	2033.6	1856.5
60°	4469.2	4419.9	4354.4	4238.8	4075.2	3831.9	3583.2	3302.8	2967.5	2649.3	2347.1
62.5°	4946.4	4928.8	4875.4	4795.6	4642.9	4451.0	4200.3	3892.1	3513.6	3127.0	2741.8
63°	4960.6	4938.3	4892.3	4811.2	4676.7	4490.9	4244.9	3945.5	3575.1	3181.1	2787.8
65°	4768.6	4759.9	4713.2	4624.7	4532.8	4390.9	4200.3	3942.8	3631.9	3259.5	2868.2
67.5°	4229.3	4202.9	4131.3	4104.3	4040.1	3941.4	3796.1	3619.1	3396.7	3104.1	2766.1
70°	3577.1	3538.0	3448.0	3400.1	3321.7	3259.5	3171.0	3044.6	2907.4	2703.3	2451.2
72.5°	2885.8	2804.7	2722.2	2597.2	2487.7	2376.9	2278.9	2189.7	2039.0	1956.5	1765.3
75°	1874.1	1726.7	1585.5	1396.3	1225.9	1075.2	928.6	854.2	699.5	636.6	546.8
77.5°	889.4	806.9	696.1	610.3	500.8	408.9	333.8	250.7	196.6	154.1	117.6
80°	717.7	648.1	581.2	503.5	421.1	335.9	257.5	192.6	136.5	94.6	66.9
82.5°	640.0	564.3	481.9	428.5	372.4	304.8	250.1	204.1	150.7	110.2	75.0
85°	248.7	209.5	161.5	131.8	102.7	84.5	76.4	52.7	41.2	32.4	25.0
87.5°	21.6	17.6	14.2	9.4	10.1	5.4	6.1	4.1	3.4	3.4	2.7
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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CATALOG NUMBER: LDRL-SL2-F03-E-8030-HSS

CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6	142.6
2.5°	149.4	148.7	148.0	146.6	146.6	145.3	144.6	143.9	140.6	133.1	127.0
5°	156.8	155.4	154.1	152.0	150.7	148.7	147.3	145.3	137.9	123.7	111.5
7.5°	167.6	164.9	162.9	158.8	156.8	154.1	152.0	148.7	136.5	114.9	98.0
10°	180.4	175.7	172.3	167.6	163.5	160.2	156.8	152.0	135.2	105.4	85.8
12.5°	196.0	190.6	183.8	178.4	173.0	168.3	163.5	157.5	133.1	97.3	76.4
15°	211.5	203.4	198.7	191.3	183.8	177.1	170.3	164.9	133.8	88.5	68.3
17.5°	229.1	221.0	210.9	202.8	194.6	185.9	177.8	166.9	130.4	81.8	62.2
20°	246.0	234.5	225.0	214.9	203.4	192.6	182.5	173.0	127.7	75.0	56.8
22.5°	264.2	250.7	238.6	225.7	211.5	199.4	187.2	175.0	123.0	68.9	52.0
25°	286.6	271.0	253.4	237.9	223.0	208.1	192.6	177.8	118.3	63.5	48.7
27.5°	313.6	293.3	275.7	256.1	235.2	216.3	199.4	183.1	113.5	59.5	45.3
30°	348.1	324.4	299.4	274.4	252.1	230.5	206.8	186.5	108.8	55.4	41.9
32.5°	394.0	364.3	333.8	304.8	275.1	247.4	222.4	196.0	106.1	52.0	38.5
35°	454.8	416.3	379.1	342.6	306.8	273.0	240.6	210.9	106.1	48.0	34.4
37.5°	512.3	467.7	420.4	375.1	332.5	293.3	254.8	219.0	100.7	44.6	31.1
40°	574.5	521.0	465.7	412.3	360.9	312.2	268.3	227.1	96.0	40.6	27.7
42.5°	669.7	602.1	529.9	467.7	406.2	346.0	291.3	242.6	89.9	36.5	24.3
45°	794.8	709.0	623.8	548.1	469.7	396.1	331.2	271.0	88.5	33.1	20.9
47.5°	928.6	827.2	727.2	630.5	538.6	452.8	375.1	302.8	88.5	29.7	18.2
50°	1061.7	934.7	827.9	715.7	612.3	510.9	418.3	335.9	89.2	27.0	14.9
52.5°	1182.0	1046.2	926.5	796.8	682.6	565.0	464.3	368.3	87.9	23.7	12.2
55°	1348.9	1189.5	1050.9	907.7	773.8	641.4	527.2	417.0	88.5	20.9	10.1
57.5°	1656.4	1469.2	1302.3	1114.5	960.4	789.3	650.8	517.0	96.7	17.6	7.4
60°	2097.8	1854.5	1620.0	1390.9	1194.8	991.4	811.7	654.2	113.5	14.2	5.4
62.5°	2394.5	2076.1	1796.4	1543.6	1315.8	1103.0	906.9	727.9	125.0	11.5	3.4
63°	2424.8	2095.7	1814.6	1553.7	1321.3	1108.4	911.0	733.3	125.7	10.8	3.4
65°	2482.3	2129.5	1824.8	1555.7	1315.8	1100.9	908.3	732.6	127.0	8.8	2.7
67.5°	2416.7	2077.5	1765.9	1497.6	1268.5	1057.0	874.5	705.6	126.4	6.1	2.0
70°	2161.3	1880.1	1606.4	1356.4	1148.2	957.0	796.1	643.4	116.3	4.1	1.3
72.5°	1586.8	1395.6	1183.4	1002.9	865.1	718.4	613.0	483.2	89.9	2.7	0.7
75°	470.4	428.5	360.2	317.6	280.5	231.8	206.1	160.9	45.9	1.3	0.0
77.5°	93.9	85.2	76.4	69.6	65.5	56.1	53.4	43.9	18.9	0.7	0.0
80°	49.3	40.6	34.4	30.4	26.3	21.6	18.2	14.9	3.4	0.0	0.0
82.5°	47.3	31.8	23.0	18.9	16.2	12.8	10.1	7.4	2.0	0.0	0.0
85°	17.6	13.5	10.1	8.1	6.8	6.1	4.7	4.1	0.0	0.0	0.0
87.5°	2.7	2.0	2.0	1.3	1.3	0.7	0.7	0.7	0.0	0.0	0.0
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: P163250

CATALOG NUMBER: LDRL-SL2-F03-E-8030-HSS

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	142.6	142.6	142.6	142.6	142.6	142.6	142.6
2.5°	121.0	115.5	112.9	109.5	109.5	108.8	110.2
5°	100.7	93.3	87.9	83.8	84.5	82.4	83.1
7.5°	85.2	77.7	73.0	70.3	69.6	68.9	68.9
10°	73.7	66.9	62.8	60.8	60.2	60.2	60.2
12.5°	65.5	58.8	55.4	54.1	54.1	53.4	53.4
15°	58.8	53.4	50.0	48.7	48.7	48.0	48.7
17.5°	53.4	48.0	45.3	43.9	43.9	43.3	43.3
20°	48.7	43.9	41.2	39.2	39.2	38.5	39.2
22.5°	44.6	39.9	36.5	35.2	34.4	33.8	34.4
25°	40.6	35.8	32.4	30.4	29.7	29.7	29.1
27.5°	37.2	32.4	28.4	26.3	25.7	25.7	25.0
30°	33.8	28.4	24.3	22.3	21.6	21.6	21.6
32.5°	30.4	24.3	20.9	18.9	18.2	18.2	18.2
35°	27.0	20.9	17.6	15.6	14.9	14.9	14.9
37.5°	23.0	17.6	13.5	12.2	11.5	10.8	10.8
40°	19.6	13.5	10.1	8.8	7.4	7.4	7.4
42.5°	16.2	10.8	7.4	5.4	4.7	4.1	4.7
45°	13.5	8.1	4.7	2.7	2.0	2.0	2.0
47.5°	10.8	5.4	2.0	0.7	0.7	0.7	0.7
50°	8.1	3.4	0.7	0.0	0.0	0.7	0.7
52.5°	6.1	2.0	0.0	0.0	0.0	0.0	0.0
55°	3.4	0.7	0.0	0.0	0.0	0.0	0.0
57.5°	2.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.3	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.7	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.7	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)