

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: P146043

Luminaire Tested: **LDRL-SLR-F03-E-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146043
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-SLR-F03-E-8030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5629.8 lumens
Efficiency: N/A
Efficacy: 71.9 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

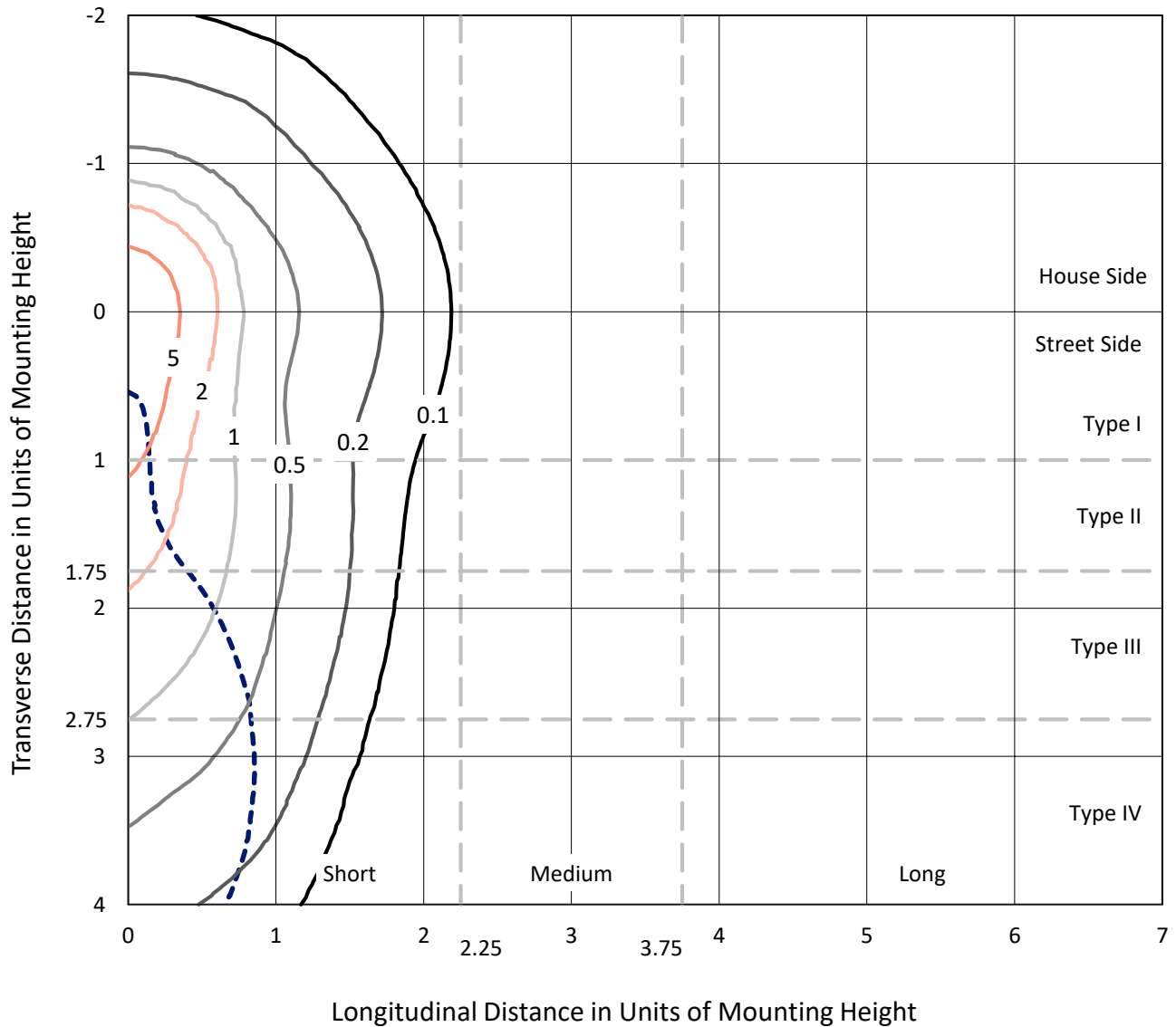
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P146043
 CATALOG NUMBER: LDRL-SLR-F03-E-8030

Iso-Footcandle Lines of Horizontal Illumination

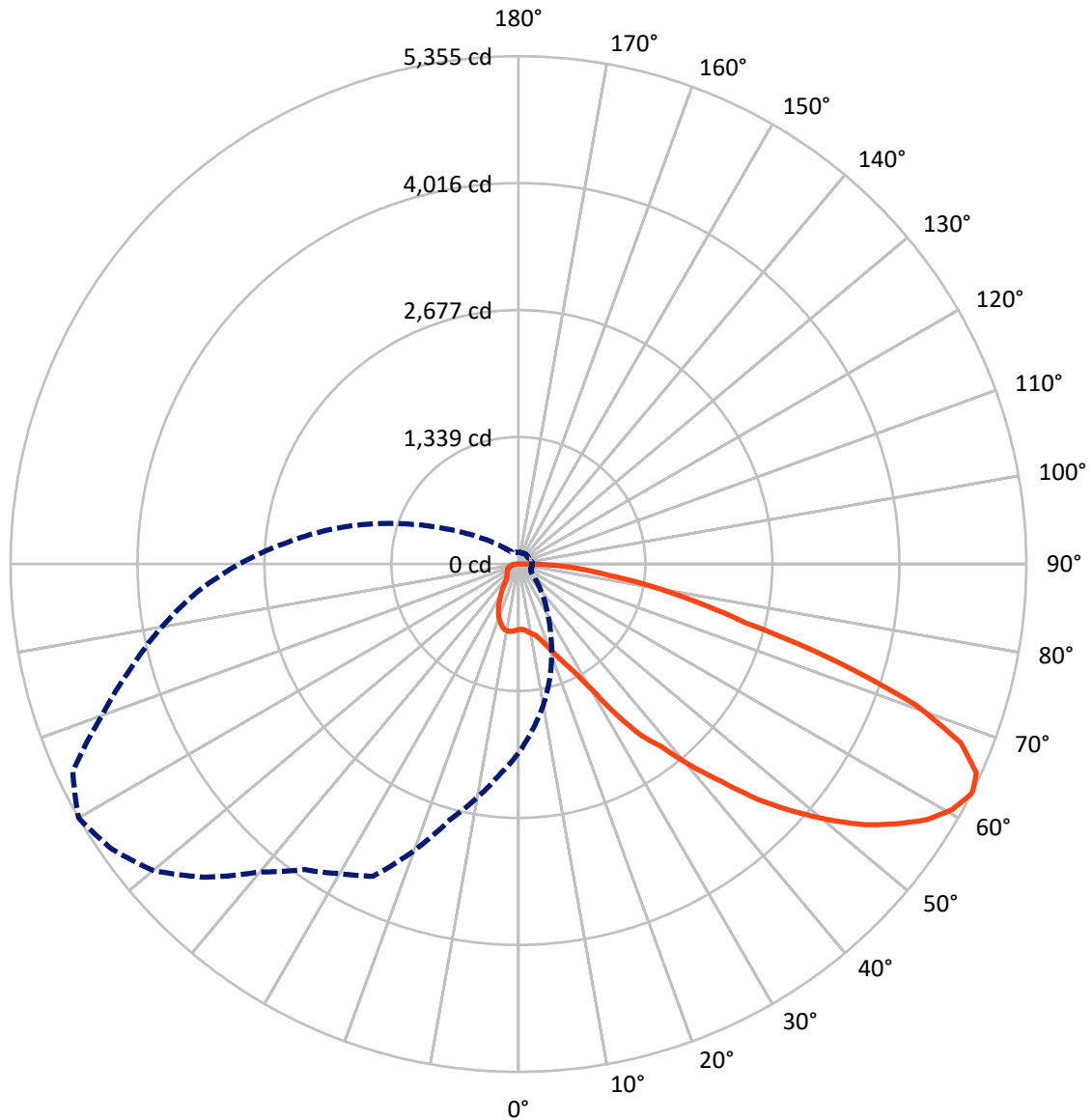
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P146043
CATALOG NUMBER: LDRL-SLR-F03-E-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 300-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P146043

CATALOG NUMBER: LDRL-SLR-F03-E-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1178.5	0.0	1178.5
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	4451.4	0.0	4451.4
	% Fixture	79.1	0.0	79.1
Total	Lumens	5629.8	0.0	5629.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.9	1.2
10°-20°	211.9	3.8
20°-30°	374.8	6.7
30°-40°	591.7	10.5
40°-50°	870.1	15.5
50°-60°	1146.2	20.4
60°-70°	1277.5	22.7
70°-80°	839.4	14.9
80°-90°	250.3	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°	5629.8	100.0
0°-180°	5629.8	100.0

Coefficient of Utilization



REPORT NUMBER: P146043

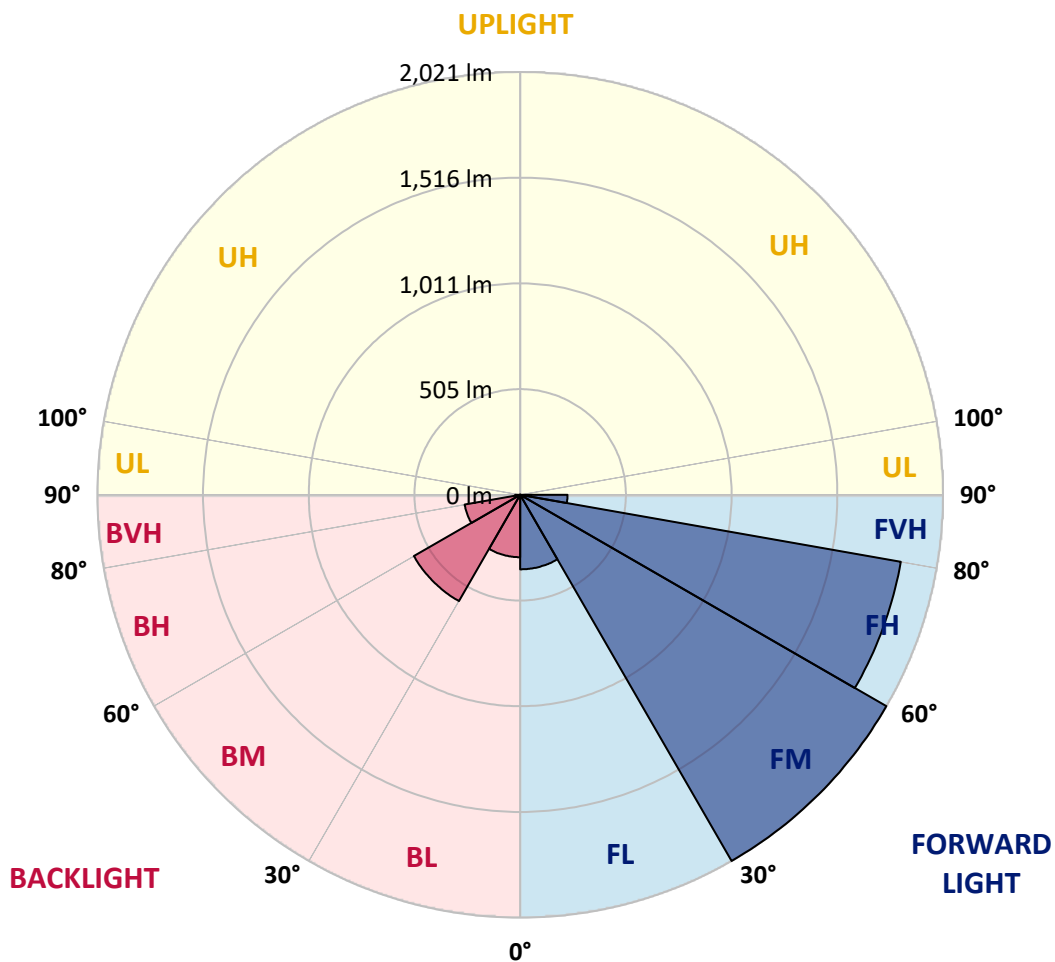
CATALOG NUMBER: LDRL-SLR-F03-E-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	356.3	6.3			
FM	(30°-60°)	2021.3	35.9			
FH	(60°-80°)	1847.5	32.8			G2/5000
FVH	(80°-90°)	226.2	4.0			G3/500
BL	(0°-30°)	298.3	5.3	B1/500		
BM	(30°-60°)	586.7	10.4	B1/1000		
BH	(60°-80°)	269.3	4.8	B1/500		G1/500
BVH	(80°-90°)	24.1	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





REPORT NUMBER: P146043

CATALOG NUMBER: LDRL-SLR-F03-E-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4
2.5°	690.6	691.9	691.9	690.6	691.9	691.4	691.4	692.7	693.1	695.2	693.9
5°	687.3	687.7	688.1	687.3	687.7	687.7	688.5	689.8	690.2	692.7	691.4
7.5°	683.5	684.3	682.7	683.1	684.3	686.0	686.0	687.7	690.6	691.9	691.4
10°	685.6	684.8	683.5	683.1	683.9	684.3	685.2	688.1	690.6	691.9	693.9
12.5°	701.9	699.4	698.1	697.7	698.1	697.3	700.2	701.1	701.9	703.6	702.7
15°	732.8	729.5	727.4	725.3	729.9	727.8	727.8	725.3	721.1	714.9	706.9
17.5°	775.9	772.1	770.5	769.6	770.0	766.3	758.7	746.6	732.0	715.3	699.8
20°	837.8	843.6	841.1	829.8	825.6	808.9	785.1	760.0	734.5	707.7	682.2
22.5°	944.8	941.4	930.1	902.1	877.1	839.4	796.8	756.2	718.6	679.7	646.3
25°	1068.9	1040.9	1009.2	954.0	896.3	834.4	773.0	724.9	674.7	632.1	591.9
27.5°	1221.1	1160.5	1079.4	989.5	903.4	821.0	748.3	684.8	627.5	581.9	537.2
30°	1370.8	1269.6	1156.7	1037.6	921.4	810.2	714.0	640.4	574.4	515.9	470.7
32.5°	1474.4	1351.9	1211.5	1064.3	923.0	792.6	676.4	588.6	514.2	455.2	400.9
35°	1559.7	1406.7	1230.7	1060.2	896.3	751.6	622.5	525.1	446.1	385.0	337.4
37.5°	1618.2	1434.7	1229.5	1035.9	848.6	686.4	560.6	461.5	387.9	331.1	287.2
40°	1659.2	1443.5	1213.2	994.5	793.9	623.3	494.5	404.2	339.9	295.6	263.8
42.5°	1678.9	1437.6	1188.9	955.2	739.5	572.3	444.8	365.8	313.5	280.1	256.7
45°	1687.2	1423.4	1161.7	916.8	695.2	528.4	419.3	354.1	313.1	284.3	258.8
47.5°	1685.1	1408.0	1137.5	885.0	668.9	516.7	424.3	370.0	328.6	292.6	260.0
50°	1679.3	1393.7	1122.0	873.3	668.4	534.3	452.3	396.7	346.6	300.2	258.8
52.5°	1678.9	1392.5	1130.4	887.1	692.7	574.0	494.5	427.7	364.1	308.5	259.2
55°	1688.9	1415.1	1165.9	924.3	751.2	629.6	542.2	460.7	383.8	314.4	257.9
57.5°	1729.4	1471.5	1233.2	1007.5	826.5	697.3	588.2	485.3	391.3	312.7	252.1
60°	1818.5	1570.6	1336.9	1124.9	923.0	759.2	615.4	493.7	387.9	302.7	239.5
62.5°	1957.3	1714.0	1479.0	1240.3	1008.7	796.4	621.6	487.0	374.6	285.9	224.1
63°	1992.8	1747.0	1507.9	1264.2	1023.4	800.1	621.2	484.5	370.8	281.8	220.3
65°	2141.2	1888.7	1623.7	1342.7	1062.7	807.7	611.6	468.6	354.1	262.1	203.2
67.5°	2364.4	2045.1	1738.6	1415.9	1084.4	794.3	581.5	429.3	311.0	227.8	177.7
70°	2513.3	2148.7	1807.2	1439.7	1058.9	733.2	512.5	359.9	254.2	187.7	151.7
72.5°	2517.0	2055.9	1714.4	1316.0	914.3	604.9	401.3	272.1	197.7	152.6	130.8
75°	2248.2	1737.4	1401.3	1080.6	703.6	427.7	282.2	198.6	151.7	125.8	113.3
77.5°	1671.3	1267.5	1011.2	727.0	456.9	277.2	196.5	147.2	120.4	104.1	94.9
80°	1037.2	792.2	613.7	434.8	273.8	184.4	143.8	117.1	101.2	87.0	79.4
82.5°	625.4	443.5	346.6	262.5	175.2	132.9	110.8	98.7	85.7	73.2	67.3
85°	458.2	317.3	232.4	162.2	108.3	87.8	77.8	75.2	66.5	56.4	53.1
87.5°	144.2	151.3	157.2	95.7	52.3	39.7	33.9	39.7	38.0	26.8	29.3
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: P146043

CATALOG NUMBER: LDRL-SLR-F03-E-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4
2.5°	696.0	697.7	696.5	696.5	695.6	695.2	698.1	697.3	698.1	697.7	698.5
5°	693.5	694.8	693.9	694.8	693.9	693.9	697.7	697.7	699.4	700.2	702.3
7.5°	694.4	694.8	694.4	695.6	694.8	693.9	696.0	697.3	700.2	702.7	704.8
10°	697.3	698.5	698.1	698.1	695.6	693.9	695.2	696.0	699.0	700.2	702.7
12.5°	704.4	702.7	699.4	697.3	691.4	688.1	686.4	685.6	687.7	689.4	690.6
15°	702.7	693.5	686.0	679.7	671.0	665.5	661.3	660.9	661.3	661.8	663.0
17.5°	685.6	673.0	658.0	650.1	640.0	634.2	631.2	629.2	628.7	629.6	631.7
20°	660.9	642.5	625.8	612.0	601.1	591.9	594.0	589.4	591.5	592.8	596.5
22.5°	623.3	597.8	578.6	561.8	548.9	539.3	539.3	535.1	535.9	539.7	544.7
25°	562.3	538.4	510.8	499.1	484.5	477.8	476.6	475.7	479.1	483.7	486.6
27.5°	507.1	474.5	447.3	431.8	416.4	418.0	409.7	414.7	418.5	422.2	425.6
30°	432.7	405.9	381.3	365.8	347.4	347.8	349.1	349.9	353.2	358.3	365.0
32.5°	361.2	332.3	309.4	292.6	281.8	278.4	273.8	281.3	285.5	290.5	297.2
35°	302.2	272.1	252.9	238.3	232.0	227.4	226.2	225.3	229.1	231.6	237.0
37.5°	260.0	239.5	225.3	214.9	209.0	204.0	202.8	201.9	201.5	200.7	204.0
40°	242.9	226.6	214.5	204.8	199.4	196.5	195.2	193.6	191.9	189.8	189.4
42.5°	237.9	220.3	206.1	196.5	192.3	191.9	191.9	191.0	189.4	186.4	184.4
45°	235.8	214.5	198.2	190.6	187.7	188.1	188.1	188.1	186.9	183.9	180.6
47.5°	232.0	207.3	190.6	184.4	183.1	183.9	184.8	184.8	183.9	181.4	177.7
50°	224.9	196.5	178.9	173.1	172.7	173.1	173.1	173.9	173.1	171.0	167.6
52.5°	219.5	188.1	170.1	165.5	165.5	165.1	164.7	164.7	164.3	162.6	160.1
55°	214.5	182.7	166.4	162.6	163.5	163.5	162.6	162.2	160.5	158.4	155.9
57.5°	207.3	176.8	162.6	160.1	160.9	160.5	160.1	159.7	158.0	155.5	152.2
60°	194.8	166.4	155.1	153.4	154.7	155.1	156.8	157.2	156.3	153.4	148.8
62.5°	181.0	153.4	145.1	143.8	145.1	146.3	147.6	146.7	146.7	143.8	139.6
63°	176.4	151.3	142.1	142.1	143.4	144.6	145.5	144.6	145.1	141.7	137.5
65°	166.0	143.8	136.7	137.1	138.4	139.2	139.6	139.6	139.2	136.7	132.9
67.5°	148.4	132.9	128.8	130.8	132.5	132.9	132.9	133.8	132.9	131.3	127.9
70°	132.5	122.5	119.6	122.1	122.9	123.3	123.3	123.3	122.5	120.8	117.9
72.5°	120.4	115.4	115.0	114.5	115.0	113.7	113.7	112.9	110.8	109.5	107.0
75°	107.0	104.5	104.9	104.5	103.7	103.3	101.2	100.3	97.8	96.1	92.8
77.5°	92.0	92.4	92.0	92.4	93.2	93.6	90.7	88.6	86.5	84.9	83.2
80°	76.5	77.3	76.5	77.3	77.8	77.8	74.8	71.5	69.8	71.1	71.5
82.5°	68.1	68.1	64.8	65.6	64.8	63.5	61.5	60.2	58.9	58.1	60.2
85°	53.9	54.3	55.2	54.3	52.7	51.4	49.3	47.7	46.4	47.7	50.6
87.5°	32.2	34.7	33.4	33.4	33.0	33.0	31.4	30.5	29.3	34.3	36.8
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: P146043

CATALOG NUMBER: LDRL-SLR-F03-E-8030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4
2.5°	698.1	699.4	699.8	699.4	699.8	700.6	697.3	700.6	701.1	698.5	699.4
5°	704.0	706.1	709.0	709.0	711.1	712.3	710.7	715.3	716.1	715.7	717.8
7.5°	708.2	711.1	714.9	716.9	720.7	722.4	723.6	727.8	728.6	730.3	732.0
10°	707.7	711.9	715.3	721.1	725.7	729.1	731.6	736.2	737.8	740.4	741.6
12.5°	695.6	700.2	706.5	714.9	723.2	728.6	735.3	742.0	744.5	747.9	750.0
15°	668.4	672.2	681.0	691.9	703.1	716.9	726.6	737.0	741.6	744.9	747.9
17.5°	632.9	636.3	644.2	653.8	668.9	682.2	696.9	712.8	720.7	724.5	725.7
20°	599.9	604.9	607.0	618.3	623.3	636.7	649.2	666.8	676.8	683.5	687.7
22.5°	548.1	550.6	561.4	566.0	569.8	578.2	593.6	609.1	622.5	633.3	636.7
25°	490.8	497.5	503.3	507.1	515.9	516.3	528.8	539.7	556.4	566.9	575.2
27.5°	427.7	437.7	441.0	443.5	450.2	458.2	462.8	473.6	483.3	495.4	510.4
30°	364.1	373.7	380.4	384.2	390.5	398.0	401.3	408.4	421.0	434.3	446.1
32.5°	304.8	314.8	318.1	330.3	331.9	339.0	341.5	352.8	359.9	371.2	385.0
35°	246.6	257.1	267.1	273.8	281.3	280.9	287.6	298.1	304.3	316.0	325.2
37.5°	206.9	213.2	220.3	227.8	236.2	242.5	248.7	253.3	258.3	266.3	274.7
40°	189.4	191.0	194.0	198.6	204.4	209.0	213.6	217.4	221.1	227.4	232.8
42.5°	182.3	181.0	181.0	180.2	182.3	184.8	188.5	189.8	195.6	199.4	201.5
45°	177.2	174.3	172.2	169.7	168.9	169.7	171.8	174.7	178.5	179.8	179.8
47.5°	174.3	169.7	166.4	162.6	160.5	160.5	161.8	163.9	166.0	166.4	166.0
50°	164.3	159.7	155.5	152.2	150.5	150.5	150.9	153.8	154.3	153.4	153.8
52.5°	156.8	152.2	148.0	145.1	143.0	143.4	144.6	145.9	147.2	146.3	145.5
55°	152.2	146.7	143.0	139.6	137.1	138.0	139.2	140.9	143.0	141.7	140.5
57.5°	148.0	143.4	138.8	135.4	132.5	133.4	134.6	137.1	139.6	137.1	135.4
60°	144.2	139.6	135.0	131.7	128.3	129.2	130.8	133.4	135.4	132.1	130.0
62.5°	135.0	130.8	127.5	125.8	123.7	125.0	126.2	129.2	128.3	125.0	122.5
63°	133.4	129.2	126.2	124.6	122.9	124.6	125.0	127.9	126.7	123.3	121.2
65°	128.3	125.0	122.1	120.4	118.7	119.6	119.6	120.8	119.1	116.6	115.0
67.5°	123.7	120.0	117.1	113.7	112.0	111.2	110.8	110.4	109.1	107.9	107.4
70°	113.7	111.2	108.7	105.8	103.3	101.6	100.7	99.9	99.1	98.7	98.2
72.5°	102.8	100.7	98.2	96.6	94.5	93.2	91.1	90.7	89.9	89.0	88.6
75°	91.1	88.6	87.8	86.1	84.9	84.0	82.4	81.9	81.1	79.8	79.4
77.5°	80.7	79.8	78.6	78.2	76.1	74.8	74.0	73.6	72.7	71.9	71.1
80°	71.9	71.5	70.6	70.2	69.0	67.3	66.5	66.9	65.6	65.2	64.0
82.5°	64.8	65.2	65.2	64.0	62.7	60.6	59.8	61.0	60.2	58.5	56.9
85°	55.2	54.8	55.2	54.8	52.3	50.2	49.3	50.2	49.7	47.2	46.8
87.5°	39.3	38.9	38.0	40.6	37.2	30.1	30.9	35.1	33.9	32.6	31.8
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: P146043

CATALOG NUMBER: LDRL-SLR-F03-E-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4
2.5°	701.1	699.8	700.6	701.1	699.8	702.7	699.8	700.2	701.1	698.5	698.1
5°	719.4	719.4	722.8	723.2	722.8	726.6	726.1	726.6	725.7	725.3	723.6
7.5°	734.5	736.2	738.7	742.4	743.7	746.6	747.5	747.9	749.5	751.2	750.4
10°	745.4	750.0	752.1	755.8	759.6	761.7	763.8	767.1	768.4	769.6	767.9
12.5°	752.9	758.3	761.7	766.3	770.9	774.2	778.0	782.2	786.3	787.6	785.5
15°	749.1	755.4	760.4	765.4	772.5	778.8	785.9	793.4	798.9	801.0	798.5
17.5°	725.7	732.0	739.5	747.0	754.6	766.3	776.3	788.8	797.6	803.9	804.7
20°	693.5	697.3	708.2	715.7	727.8	741.6	756.7	771.3	781.3	792.6	799.3
22.5°	645.9	653.4	665.5	678.5	690.6	708.6	724.5	743.7	760.8	776.3	790.9
25°	587.8	598.2	612.4	630.4	646.3	665.5	688.5	709.8	738.7	762.9	794.3
27.5°	525.1	544.3	563.9	582.7	600.3	622.0	645.9	669.7	702.7	741.6	782.6
30°	465.7	481.6	506.2	528.0	548.5	575.2	599.9	626.2	657.6	703.6	750.0
32.5°	403.8	416.8	436.0	462.8	486.6	518.0	539.7	571.0	607.4	655.9	708.6
35°	339.9	357.8	373.3	391.7	409.7	441.0	473.6	508.3	550.1	602.0	659.7
37.5°	283.4	294.7	302.2	321.1	336.9	363.7	401.7	443.5	489.5	542.2	604.1
40°	236.6	243.7	252.1	264.6	278.0	302.2	337.4	384.2	432.3	484.9	546.8
42.5°	204.4	209.0	209.9	219.5	232.0	255.8	283.9	326.9	380.0	435.2	497.1
45°	182.3	182.3	181.8	186.0	196.1	216.5	242.0	280.5	331.1	388.8	453.2
47.5°	166.8	168.1	167.6	169.3	176.0	191.0	214.0	246.6	292.6	349.1	413.9
50°	155.1	156.8	157.2	157.6	160.1	172.7	192.3	218.6	259.6	313.5	378.7
52.5°	145.9	146.3	146.3	145.9	146.7	153.8	170.1	194.4	232.4	280.9	343.6
55°	140.9	141.3	141.3	141.3	141.3	145.9	157.6	177.2	207.8	253.3	310.2
57.5°	135.0	135.0	135.9	135.9	135.9	137.5	145.9	162.2	185.6	222.0	272.6
60°	130.0	131.3	132.9	133.4	132.9	132.9	137.1	148.0	163.5	189.8	232.4
62.5°	122.5	124.2	126.2	127.1	127.5	126.7	128.8	133.4	142.6	156.3	185.2
63°	121.2	122.9	124.6	125.4	125.8	125.0	126.7	130.4	138.0	149.2	175.2
65°	115.8	117.9	118.3	118.7	118.3	117.9	117.5	117.5	119.6	123.7	137.5
67.5°	108.3	109.5	109.5	110.4	108.3	107.4	106.6	105.8	104.5	104.9	109.9
70°	99.5	100.3	99.9	99.5	98.7	97.4	96.6	95.3	92.8	92.0	94.5
72.5°	89.5	90.3	90.3	90.3	88.6	87.8	87.0	86.1	85.3	86.1	87.0
75°	80.3	80.3	81.1	80.7	79.4	78.6	78.2	77.8	77.8	77.8	77.3
77.5°	71.5	71.1	71.1	69.8	69.0	68.6	69.4	69.8	69.4	68.6	68.1
80°	64.0	61.9	59.8	58.1	57.7	58.5	59.4	61.9	60.6	60.6	59.8
82.5°	54.3	49.7	46.8	47.2	46.0	46.4	47.2	50.2	49.3	49.7	51.4
85°	43.5	39.3	34.7	35.5	35.5	34.7	36.8	37.6	38.5	40.6	38.9
87.5°	30.5	26.8	22.2	19.2	20.1	20.9	21.7	20.9	18.4	19.2	18.8
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: P146043

CATALOG NUMBER: LDRL-SLR-F03-E-8030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4
2.5°	697.3	697.7	697.7	694.8	693.9	694.8	694.4	694.4	691.9	692.3	691.4
5°	722.8	723.6	721.1	719.0	716.1	715.7	715.3	713.6	711.9	708.6	706.9
7.5°	750.0	746.2	745.4	741.6	740.4	737.0	734.5	732.0	729.9	728.2	727.0
10°	767.1	764.2	763.3	756.7	754.6	750.4	747.9	744.9	742.4	739.9	739.5
12.5°	782.6	777.6	774.6	765.4	761.3	756.7	754.6	752.1	751.2	750.8	752.5
15°	794.7	787.6	782.2	773.8	770.5	767.9	768.4	767.1	772.1	775.0	780.5
17.5°	802.6	799.7	798.5	792.2	794.3	794.3	800.1	803.1	812.3	819.8	827.3
20°	806.8	812.3	822.7	824.8	829.8	835.2	844.0	849.0	858.7	869.5	880.0
22.5°	810.6	833.6	854.9	870.8	882.1	894.6	900.9	911.3	918.0	926.0	941.8
25°	831.5	869.9	907.6	928.1	954.8	972.8	987.0	997.4	1009.2	1015.8	1033.8
27.5°	825.6	874.5	924.7	962.3	1004.1	1038.0	1068.1	1088.2	1103.2	1127.5	1142.5
30°	798.9	855.7	916.3	969.9	1028.4	1083.6	1135.8	1182.6	1222.8	1255.4	1277.5
32.5°	760.8	826.0	897.1	963.2	1038.0	1111.6	1186.8	1258.3	1326.4	1380.4	1414.2
35°	718.2	788.4	867.0	945.2	1035.1	1131.2	1232.8	1329.0	1427.6	1513.7	1581.5
37.5°	666.4	742.4	828.6	919.3	1022.5	1137.9	1265.8	1396.7	1522.5	1652.9	1748.2
40°	612.0	686.4	775.9	879.6	998.7	1134.6	1291.3	1461.1	1643.3	1811.4	1956.4
42.5°	565.6	638.3	732.0	834.4	962.7	1122.0	1308.5	1518.7	1743.2	1961.0	2153.7
45°	520.0	597.8	692.3	800.5	940.6	1117.0	1330.6	1568.9	1825.2	2083.5	2329.3
47.5°	484.1	561.0	656.3	772.5	922.6	1114.1	1351.5	1615.7	1892.1	2174.7	2466.0
50°	449.8	523.4	616.2	738.7	903.8	1109.5	1364.1	1652.9	1944.3	2246.1	2563.0
52.5°	414.7	491.2	581.5	700.2	879.1	1100.3	1367.8	1682.2	1998.2	2314.7	2653.7
55°	379.2	455.7	546.0	668.9	845.7	1082.3	1364.9	1703.5	2054.7	2387.0	2736.5
57.5°	335.7	410.9	505.4	629.2	802.6	1046.4	1350.7	1712.7	2089.8	2454.7	2819.7
60°	286.8	357.8	447.3	573.6	750.0	994.5	1318.9	1699.8	2105.7	2499.5	2907.9
62.5°	225.3	287.2	369.5	495.0	673.5	919.7	1249.5	1642.5	2067.2	2488.2	2945.9
63°	211.5	271.3	356.2	474.1	650.9	893.8	1229.0	1622.8	2050.1	2477.7	2941.3
65°	161.4	205.7	275.9	381.3	550.1	774.2	1121.2	1511.6	1942.2	2373.6	2869.0
67.5°	119.1	142.1	185.2	255.8	387.1	602.4	918.9	1305.5	1713.1	2118.6	2622.8
70°	98.7	107.4	127.5	163.9	239.5	399.6	649.2	993.7	1377.0	1726.1	2181.3
72.5°	88.2	94.5	103.7	120.0	151.3	234.5	422.2	645.0	959.0	1260.8	1645.4
75°	79.0	83.2	90.7	100.3	114.5	146.7	223.2	382.5	586.1	849.5	1128.7
77.5°	69.4	73.6	81.1	88.6	97.8	111.6	138.4	217.8	350.7	495.8	692.7
80°	60.2	62.3	68.6	79.4	86.1	97.4	106.2	136.3	191.0	259.6	369.1
82.5°	49.7	50.2	54.3	62.7	71.1	75.2	77.8	85.7	109.9	137.1	181.0
85°	35.5	33.9	36.4	39.7	46.4	42.6	45.6	48.1	58.5	70.6	129.6
87.5°	15.9	12.5	14.6	16.3	14.6	10.0	14.6	12.1	15.0	29.7	33.4
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: P146043
 CATALOG NUMBER: LDRL-SLR-F03-E-8030

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	691.4	0°
2.5°	692.3	689.8	689.8	689.4	689.8	688.9	687.3	687.3	688.5	688.1	688.1	2.5°
5°	706.9	703.6	702.7	702.3	702.3	700.2	697.7	696.5	696.0	694.4	693.1	5°
7.5°	726.1	724.0	725.3	722.8	722.0	721.5	718.2	715.7	711.9	710.3	704.0	7.5°
10°	742.0	740.8	744.1	743.7	744.1	744.1	739.5	737.0	731.6	728.6	720.7	10°
12.5°	755.8	756.7	762.9	762.9	764.2	765.9	763.3	757.9	755.8	752.9	744.5	12.5°
15°	790.9	794.3	798.9	806.4	808.5	808.9	811.0	806.4	801.0	793.4	783.4	15°
17.5°	838.6	845.3	860.7	871.6	873.7	875.8	874.5	873.7	863.7	857.4	847.0	17.5°
20°	898.4	914.7	936.4	951.5	958.2	959.0	967.3	961.5	952.3	939.8	924.7	20°
22.5°	965.3	992.4	1020.0	1042.2	1055.1	1061.0	1069.8	1061.4	1049.3	1041.8	1021.7	22.5°
25°	1056.8	1086.5	1118.3	1135.8	1168.8	1178.5	1183.5	1181.0	1168.4	1173.9	1155.5	25°
27.5°	1182.2	1207.7	1252.5	1274.6	1305.5	1323.5	1319.8	1340.7	1344.4	1357.4	1359.5	27.5°
30°	1318.9	1361.1	1421.3	1466.1	1513.3	1543.8	1568.1	1586.5	1607.8	1643.7	1665.5	30°
32.5°	1466.5	1527.5	1604.4	1699.3	1799.7	1881.6	1974.0	1989.9	2037.5	2023.7	2014.5	32.5°
35°	1630.8	1707.7	1806.4	1930.9	2076.8	2212.3	2301.3	2346.0	2364.9	2375.3	2311.8	35°
37.5°	1850.7	1954.8	2064.7	2200.6	2312.2	2438.9	2541.3	2652.5	2703.5	2679.2	2557.6	37.5°
40°	2094.4	2191.8	2340.6	2451.8	2583.5	2792.1	2930.9	3064.7	3106.5	3025.8	2835.2	40°
42.5°	2338.9	2472.7	2634.1	2792.1	2943.4	3132.4	3316.3	3448.4	3494.4	3356.5	3130.3	42.5°
45°	2556.7	2728.1	2917.9	3080.1	3291.7	3538.7	3764.0	3870.2	3861.9	3640.3	3385.7	45°
47.5°	2746.5	2968.9	3183.0	3401.6	3614.8	3893.6	4116.9	4238.9	4152.4	3919.6	3631.1	47.5°
50°	2903.3	3172.1	3430.4	3681.7	3943.4	4239.8	4455.1	4567.9	4436.3	4141.5	3819.2	50°
52.5°	3022.4	3355.6	3653.3	3934.2	4246.9	4567.1	4758.6	4826.7	4621.4	4313.4	3960.1	52.5°
55°	3134.9	3511.5	3841.0	4159.9	4549.1	4836.3	5015.7	5003.1	4738.1	4388.2	4048.3	55°
57.5°	3219.8	3644.5	3995.2	4358.5	4777.8	5084.6	5188.3	5105.5	4786.6	4410.3	4073.8	57.5°
60°	3326.8	3748.2	4132.3	4537.8	4995.2	5254.8	5268.6	5120.2	4772.8	4368.5	4037.9	60°
62.5°	3395.3	3813.0	4219.7	4660.7	5160.7	5350.5	5251.9	5057.0	4693.4	4265.3	3955.5	62.5°
63°	3402.0	3819.2	4226.8	4672.9	5184.1	5354.7	5236.4	5028.6	4669.9	4236.8	3933.8	63°
65°	3371.9	3801.2	4194.2	4651.1	5190.0	5305.4	5123.1	4912.0	4540.8	4091.8	3805.8	65°
67.5°	3161.6	3608.1	3983.1	4411.6	4964.2	5028.2	4845.5	4616.0	4267.4	3779.1	3526.2	67.5°
70°	2785.0	3209.3	3475.2	3873.2	4359.3	4435.8	4272.4	4094.7	3784.9	3376.9	3167.1	70°
72.5°	2243.6	2660.4	2820.1	3124.9	3511.1	3494.4	3379.4	3357.3	3194.3	2851.9	2725.6	72.5°
75°	1677.2	2073.9	2141.2	2265.4	2481.1	2475.6	2502.4	2597.7	2679.2	2476.9	2315.1	75°
77.5°	1106.1	1500.8	1542.6	1687.2	1747.0	1910.9	2103.2	2342.7	2461.4	2378.7	2180.1	77.5°
80°	612.0	1026.7	1018.3	1074.8	1180.5	1418.8	1710.2	2066.0	2303.4	2244.0	2026.7	80°
82.5°	318.1	648.8	639.2	649.2	747.5	947.7	1169.3	1460.2	1705.6	1711.0	1637.9	82.5°
85°	236.6	465.7	493.3	515.9	581.1	650.9	691.4	784.7	919.3	1044.7	1089.4	85°
87.5°	87.0	279.7	348.2	374.1	375.8	367.0	298.9	329.0	299.3	354.1	494.5	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°



NUMBER: P146043

NUMBER: LDRL-SLR-F03-E-8030

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
691.4	691.4	691.4	691.4	691.4	691.4	691.4
688.9	688.9	688.5	689.4	689.8	691.0	690.6
691.9	690.6	689.4	688.5	687.7	688.1	687.3
699.4	695.2	691.9	688.9	686.4	686.0	683.5
716.1	708.6	702.3	697.7	692.7	690.2	685.6
737.4	729.1	721.1	714.4	708.6	705.2	701.9
774.6	762.5	752.9	745.8	739.9	736.2	732.8
829.8	814.8	800.1	786.3	784.7	775.9	775.9
905.9	885.4	866.6	854.9	849.5	837.8	837.8
1011.2	991.2	963.2	949.0	950.2	940.2	944.8
1147.5	1130.8	1102.0	1096.1	1096.1	1085.2	1068.9
1351.9	1346.1	1314.3	1322.3	1305.5	1265.0	1221.1
1655.4	1655.4	1594.0	1549.7	1511.2	1448.1	1370.8
1959.4	1919.6	1825.6	1750.3	1670.5	1573.9	1474.4
2216.0	2110.3	2015.0	1923.0	1803.0	1699.3	1559.7
2432.6	2332.3	2223.1	2083.1	1942.2	1797.6	1618.2
2701.0	2578.9	2415.0	2239.0	2066.0	1867.0	1659.2
2946.4	2793.4	2586.4	2363.6	2143.3	1921.3	1678.9
3177.1	2979.8	2724.4	2456.8	2206.0	1954.8	1687.2
3394.5	3129.9	2832.6	2523.3	2249.1	1972.7	1685.1
3537.9	3239.8	2900.8	2563.4	2275.0	1979.0	1679.3
3627.8	3307.1	2940.9	2585.6	2287.9	1980.3	1678.9
3678.3	3345.2	2962.7	2601.1	2302.2	1987.8	1688.9
3717.6	3375.3	2986.9	2627.4	2336.0	2022.9	1729.4
3754.8	3454.3	3050.0	2675.9	2395.0	2088.5	1818.5
3770.3	3604.4	3178.4	2765.3	2477.3	2193.9	1957.3
3769.1	3632.8	3215.6	2790.0	2499.1	2221.9	1992.8
3723.5	3723.1	3384.9	2907.9	2600.2	2351.5	2141.2
3588.5	3768.2	3572.2	3063.4	2757.4	2565.1	2364.4
3374.8	3713.5	3597.7	3104.4	2869.0	2761.2	2513.3
3007.0	3451.8	3359.0	2929.6	2831.0	2799.6	2517.0
2432.2	2775.0	2735.2	2502.8	2539.2	2603.6	2248.2
1959.4	1948.5	1942.6	1858.2	2012.9	2143.7	1671.3
1636.6	1348.2	1252.0	1219.4	1474.4	1574.8	1037.2
1530.0	1211.1	971.5	930.6	1104.9	1158.4	625.4
1169.3	1176.0	1017.9	872.5	859.5	786.8	458.2
572.3	581.9	614.9	561.4	481.6	405.9	144.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)