

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: P146020

Luminaire Tested: **LDRL-SLR-E01-E**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P146020  
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-E01-E  
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT  
Light Source: (21) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2693.4 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

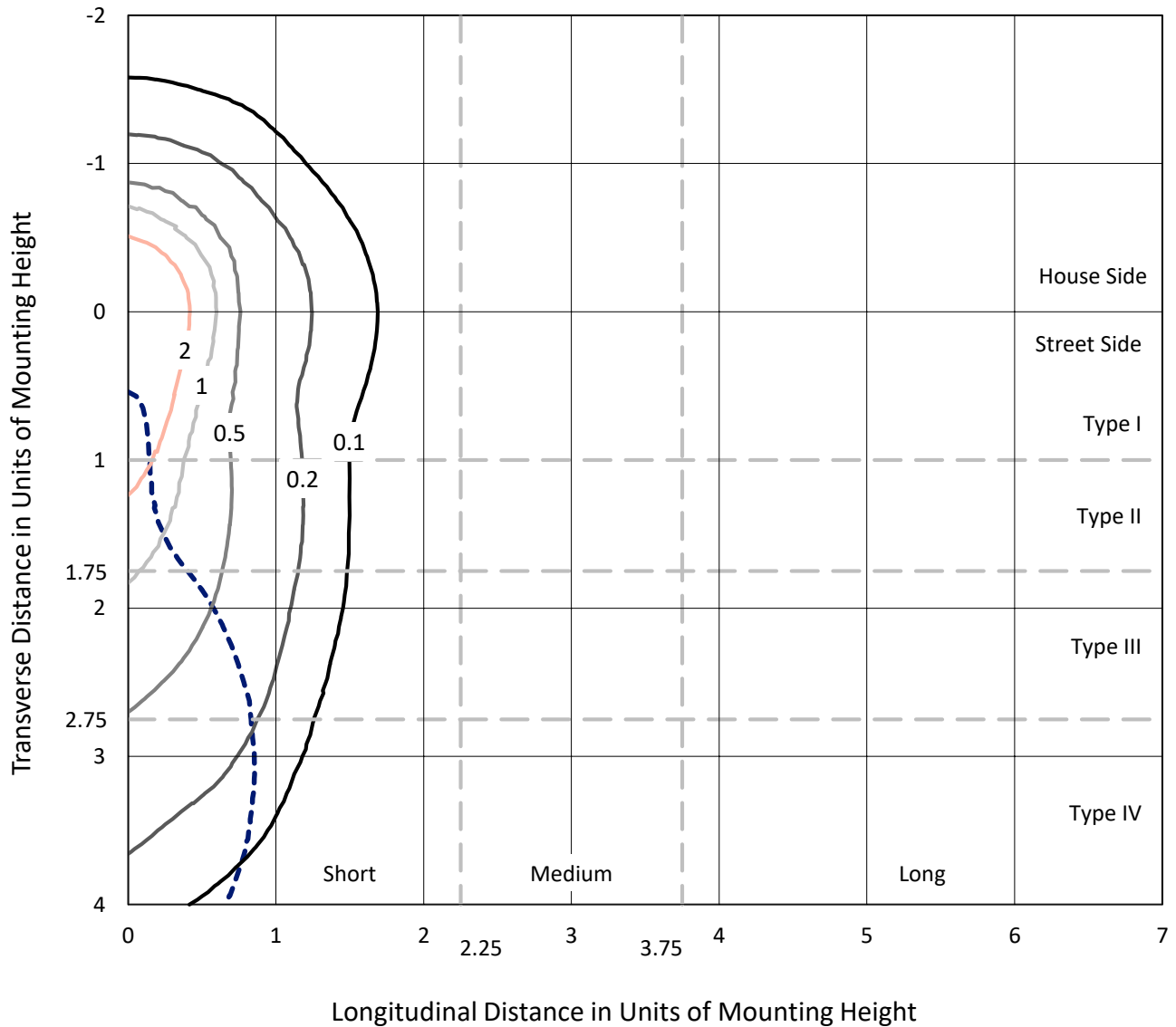
Input Watts (W): 24.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

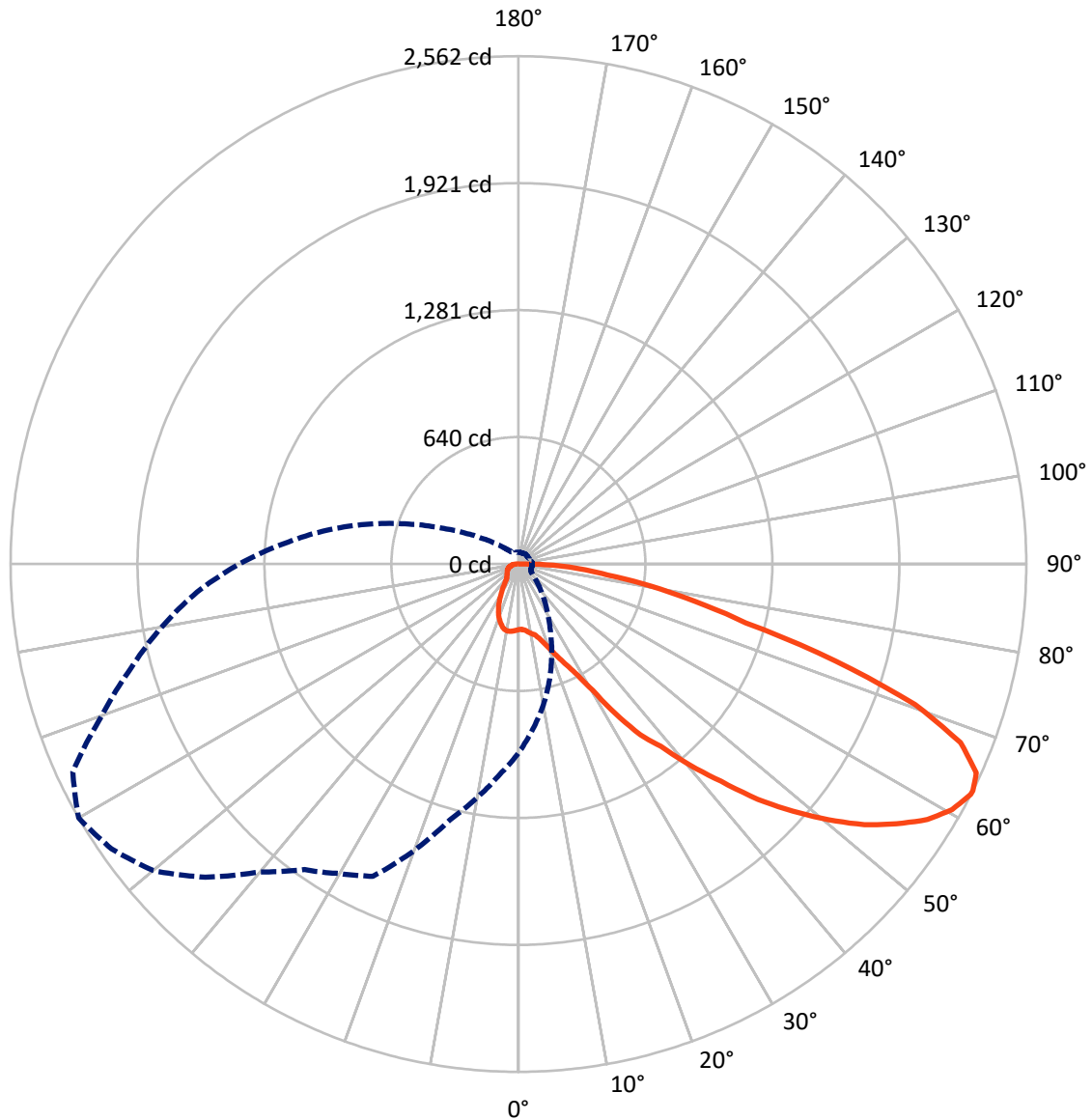
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.2 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	563.8	0.0	563.8
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	2129.6	0.0	2129.6
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	2693.4	0.0	2693.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.5	1.2
10°-20°	101.4	3.8
20°-30°	179.3	6.7
30°-40°	283.1	10.5
40°-50°	416.3	15.5
50°-60°	548.4	20.4
60°-70°	611.2	22.7
70°-80°	401.6	14.9
80°-90°	119.8	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°	2693.4	100.0
0°-180°	2693.4	100.0



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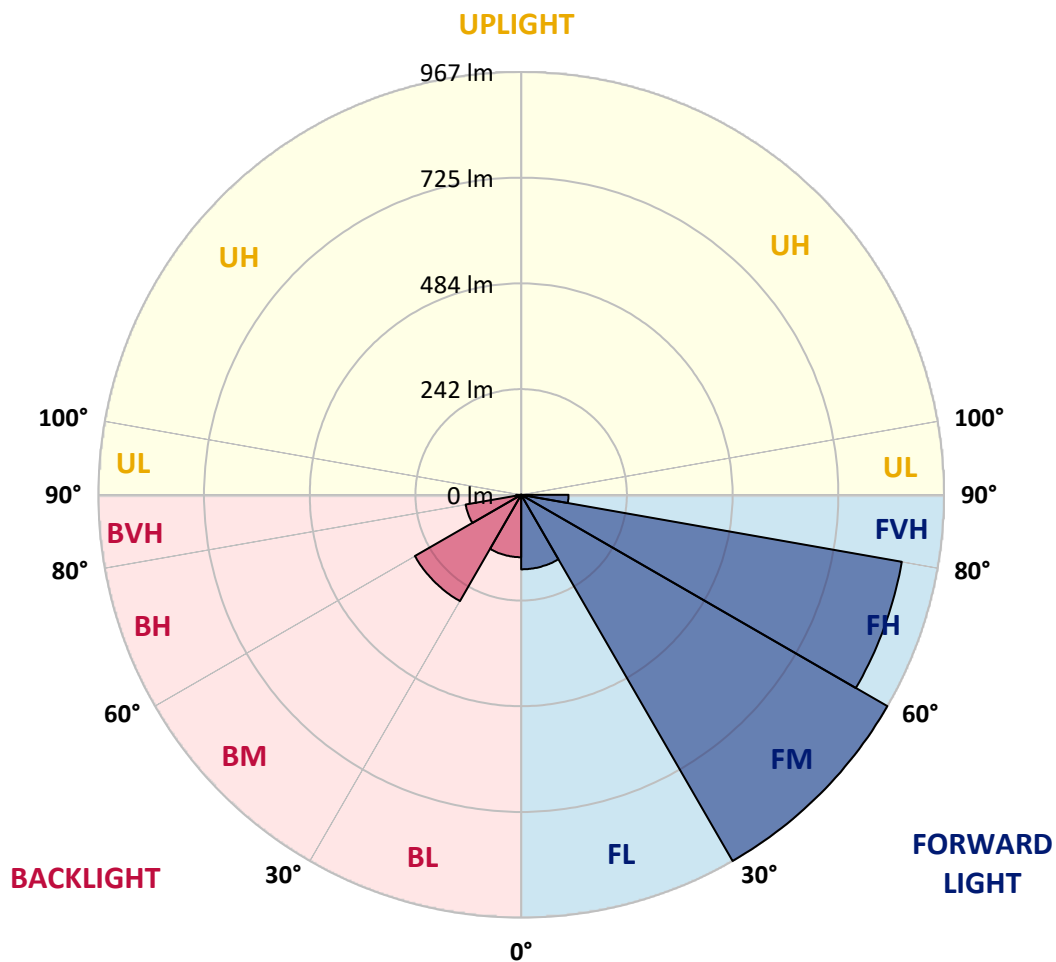
CATALOG NUMBER: LDRL-SLR-E01-E

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	170.5	6.3			
FM	(30°-60°)	967.0	35.9			
FH	(60°-80°)	883.9	32.8			G1/1800
FVH	(80°-90°)	108.2	4.0			G2/225
BL	(0°-30°)	142.7	5.3	B1/500		
BM	(30°-60°)	280.7	10.4	B1/1000		
BH	(60°-80°)	128.9	4.8	B1/500		G1/500
BVH	(80°-90°)	11.5	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°	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8
2.5°	330.4	331.0	331.0	330.4	331.0	330.8	330.8	331.4	331.6	332.6	332.0
5°	328.8	329.0	329.2	328.8	329.0	329.0	329.4	330.0	330.2	331.4	330.8
7.5°	327.0	327.4	326.6	326.8	327.4	328.2	328.2	329.0	330.4	331.0	330.8
10°	328.0	327.6	327.0	326.8	327.2	327.4	327.8	329.2	330.4	331.0	332.0
12.5°	335.8	334.6	334.0	333.8	334.0	333.6	335.0	335.4	335.8	336.6	336.2
15°	350.6	349.0	348.0	347.0	349.2	348.2	348.2	347.0	345.0	342.0	338.2
17.5°	371.2	369.4	368.6	368.2	368.4	366.6	363.0	357.2	350.2	342.2	334.8
20°	400.8	403.6	402.4	397.0	395.0	387.0	375.6	363.6	351.4	338.6	326.4
22.5°	452.0	450.4	445.0	431.6	419.6	401.6	381.2	361.8	343.8	325.2	309.2
25°	511.4	498.0	482.8	456.4	428.8	399.2	369.8	346.8	322.8	302.4	283.2
27.5°	584.2	555.2	516.4	473.4	432.2	392.8	358.0	327.6	300.2	278.4	257.0
30°	655.8	607.4	553.4	496.4	440.8	387.6	341.6	306.4	274.8	246.8	225.2
32.5°	705.4	646.8	579.6	509.2	441.6	379.2	323.6	281.6	246.0	217.8	191.8
35°	746.2	673.0	588.8	507.2	428.8	359.6	297.8	251.2	213.4	184.2	161.4
37.5°	774.2	686.4	588.2	495.6	406.0	328.4	268.2	220.8	185.6	158.4	137.4
40°	793.8	690.6	580.4	475.8	379.8	298.2	236.6	193.4	162.6	141.4	126.2
42.5°	803.2	687.8	568.8	457.0	353.8	273.8	212.8	175.0	150.0	134.0	122.8
45°	807.2	681.0	555.8	438.6	332.6	252.8	200.6	169.4	149.8	136.0	123.8
47.5°	806.2	673.6	544.2	423.4	320.0	247.2	203.0	177.0	157.2	140.0	124.4
50°	803.4	666.8	536.8	417.8	319.8	255.6	216.4	189.8	165.8	143.6	123.8
52.5°	803.2	666.2	540.8	424.4	331.4	274.6	236.6	204.6	174.2	147.6	124.0
55°	808.0	677.0	557.8	442.2	359.4	301.2	259.4	220.4	183.6	150.4	123.4
57.5°	827.4	704.0	590.0	482.0	395.4	333.6	281.4	232.2	187.2	149.6	120.6
60°	870.0	751.4	639.6	538.2	441.6	363.2	294.4	236.2	185.6	144.8	114.6
62.5°	936.4	820.0	707.6	593.4	482.6	381.0	297.4	233.0	179.2	136.8	107.2
63°	953.4	835.8	721.4	604.8	489.6	382.8	297.2	231.8	177.4	134.8	105.4
65°	1024.4	903.6	776.8	642.4	508.4	386.4	292.6	224.2	169.4	125.4	97.2
67.5°	1131.2	978.4	831.8	677.4	518.8	380.0	278.2	205.4	148.8	109.0	85.0
70°	1202.4	1028.0	864.6	688.8	506.6	350.8	245.2	172.2	121.6	89.8	72.6
72.5°	1204.2	983.6	820.2	629.6	437.4	289.4	192.0	130.2	94.6	73.0	62.6
75°	1075.6	831.2	670.4	517.0	336.6	204.6	135.0	95.0	72.6	60.2	54.2
77.5°	799.6	606.4	483.8	347.8	218.6	132.6	94.0	70.4	57.6	49.8	45.4
80°	496.2	379.0	293.6	208.0	131.0	88.2	68.8	56.0	48.4	41.6	38.0
82.5°	299.2	212.2	165.8	125.6	83.8	63.6	53.0	47.2	41.0	35.0	32.2
85°	219.2	151.8	111.2	77.6	51.8	42.0	37.2	36.0	31.8	27.0	25.4
87.5°	69.0	72.4	75.2	45.8	25.0	19.0	16.2	19.0	18.2	12.8	14.0
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°	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8
2.5°	333.0	333.8	333.2	333.2	332.8	332.6	334.0	333.6	334.0	333.8	334.2
5°	331.8	332.4	332.0	332.4	332.0	332.0	333.8	333.8	334.6	335.0	336.0
7.5°	332.2	332.4	332.2	332.8	332.4	332.0	333.0	333.6	335.0	336.2	337.2
10°	333.6	334.2	334.0	334.0	332.8	332.0	332.6	333.0	334.4	335.0	336.2
12.5°	337.0	336.2	334.6	333.6	330.8	329.2	328.4	328.0	329.0	329.8	330.4
15°	336.2	331.8	328.2	325.2	321.0	318.4	316.4	316.2	316.4	316.6	317.2
17.5°	328.0	322.0	314.8	311.0	306.2	303.4	302.0	301.0	300.8	301.2	302.2
20°	316.2	307.4	299.4	292.8	287.6	283.2	284.2	282.0	283.0	283.6	285.4
22.5°	298.2	286.0	276.8	268.8	262.6	258.0	258.0	256.0	256.4	258.2	260.6
25°	269.0	257.6	244.4	238.8	231.8	228.6	228.0	227.6	229.2	231.4	232.8
27.5°	242.6	227.0	214.0	206.6	199.2	200.0	196.0	198.4	200.2	202.0	203.6
30°	207.0	194.2	182.4	175.0	166.2	166.4	167.0	167.4	169.0	171.4	174.6
32.5°	172.8	159.0	148.0	140.0	134.8	133.2	131.0	134.6	136.6	139.0	142.2
35°	144.6	130.2	121.0	114.0	111.0	108.8	108.2	107.8	109.6	110.8	113.4
37.5°	124.4	114.6	107.8	102.8	100.0	97.6	97.0	96.6	96.4	96.0	97.6
40°	116.2	108.4	102.6	98.0	95.4	94.0	93.4	92.6	91.8	90.8	90.6
42.5°	113.8	105.4	98.6	94.0	92.0	91.8	91.8	91.4	90.6	89.2	88.2
45°	112.8	102.6	94.8	91.2	89.8	90.0	90.0	90.0	89.4	88.0	86.4
47.5°	111.0	99.2	91.2	88.2	87.6	88.0	88.4	88.4	88.0	86.8	85.0
50°	107.6	94.0	85.6	82.8	82.6	82.8	82.8	83.2	82.8	81.8	80.2
52.5°	105.0	90.0	81.4	79.2	79.2	79.0	78.8	78.8	78.6	77.8	76.6
55°	102.6	87.4	79.6	77.8	78.2	78.2	77.8	77.6	76.8	75.8	74.6
57.5°	99.2	84.6	77.8	76.6	77.0	76.8	76.6	76.4	75.6	74.4	72.8
60°	93.2	79.6	74.2	73.4	74.0	74.2	75.0	75.2	74.8	73.4	71.2
62.5°	86.6	73.4	69.4	68.8	69.4	70.0	70.6	70.2	70.2	68.8	66.8
63°	84.4	72.4	68.0	68.0	68.6	69.2	69.6	69.2	69.4	67.8	65.8
65°	79.4	68.8	65.4	65.6	66.2	66.6	66.8	66.8	66.6	65.4	63.6
67.5°	71.0	63.6	61.6	62.6	63.4	63.6	63.6	64.0	63.6	62.8	61.2
70°	63.4	58.6	57.2	58.4	58.8	59.0	59.0	59.0	58.6	57.8	56.4
72.5°	57.6	55.2	55.0	54.8	55.0	54.4	54.4	54.0	53.0	52.4	51.2
75°	51.2	50.0	50.2	50.0	49.6	49.4	48.4	48.0	46.8	46.0	44.4
77.5°	44.0	44.2	44.0	44.2	44.6	44.8	43.4	42.4	41.4	40.6	39.8
80°	36.6	37.0	36.6	37.0	37.2	37.2	35.8	34.2	33.4	34.0	34.2
82.5°	32.6	32.6	31.0	31.4	31.0	30.4	29.4	28.8	28.2	27.8	28.8
85°	25.8	26.0	26.4	26.0	25.2	24.6	23.6	22.8	22.2	22.8	24.2
87.5°	15.4	16.6	16.0	16.0	15.8	15.8	15.0	14.6	14.0	16.4	17.6
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°	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8
2.5°	334.0	334.6	334.8	334.6	334.8	335.2	333.6	335.2	335.4	334.2	334.6
5°	336.8	337.8	339.2	339.2	340.2	340.8	340.0	342.2	342.6	342.4	343.4
7.5°	338.8	340.2	342.0	343.0	344.8	345.6	346.2	348.2	348.6	349.4	350.2
10°	338.6	340.6	342.2	345.0	347.2	348.8	350.0	352.2	353.0	354.2	354.8
12.5°	332.8	335.0	338.0	342.0	346.0	348.6	351.8	355.0	356.2	357.8	358.8
15°	319.8	321.6	325.8	331.0	336.4	343.0	347.6	352.6	354.8	356.4	357.8
17.5°	302.8	304.4	308.2	312.8	320.0	326.4	333.4	341.0	344.8	346.6	347.2
20°	287.0	289.4	290.4	295.8	298.2	304.6	310.6	319.0	323.8	327.0	329.0
22.5°	262.2	263.4	268.6	270.8	272.6	276.6	284.0	291.4	297.8	303.0	304.6
25°	234.8	238.0	240.8	242.6	246.8	247.0	253.0	258.2	266.2	271.2	275.2
27.5°	204.6	209.4	211.0	212.2	215.4	219.2	221.4	226.6	231.2	237.0	244.2
30°	174.2	178.8	182.0	183.8	186.8	190.4	192.0	195.4	201.4	207.8	213.4
32.5°	145.8	150.6	152.2	158.0	158.8	162.2	163.4	168.8	172.2	177.6	184.2
35°	118.0	123.0	127.8	131.0	134.6	134.4	137.6	142.6	145.6	151.2	155.6
37.5°	99.0	102.0	105.4	109.0	113.0	116.0	119.0	121.2	123.6	127.4	131.4
40°	90.6	91.4	92.8	95.0	97.8	100.0	102.2	104.0	105.8	108.8	111.4
42.5°	87.2	86.6	86.6	86.2	87.2	88.4	90.2	90.8	93.6	95.4	96.4
45°	84.8	83.4	82.4	81.2	80.8	81.2	82.2	83.6	85.4	86.0	86.0
47.5°	83.4	81.2	79.6	77.8	76.8	76.8	77.4	78.4	79.4	79.6	79.4
50°	78.6	76.4	74.4	72.8	72.0	72.0	72.2	73.6	73.8	73.4	73.6
52.5°	75.0	72.8	70.8	69.4	68.4	68.6	69.2	69.8	70.4	70.0	69.6
55°	72.8	70.2	68.4	66.8	65.6	66.0	66.6	67.4	68.4	67.8	67.2
57.5°	70.8	68.6	66.4	64.8	63.4	63.8	64.4	65.6	66.8	65.6	64.8
60°	69.0	66.8	64.6	63.0	61.4	61.8	62.6	63.8	64.8	63.2	62.2
62.5°	64.6	62.6	61.0	60.2	59.2	59.8	60.4	61.8	61.4	59.8	58.6
63°	63.8	61.8	60.4	59.6	58.8	59.6	59.8	61.2	60.6	59.0	58.0
65°	61.4	59.8	58.4	57.6	56.8	57.2	57.2	57.8	57.0	55.8	55.0
67.5°	59.2	57.4	56.0	54.4	53.6	53.2	53.0	52.8	52.2	51.6	51.4
70°	54.4	53.2	52.0	50.6	49.4	48.6	48.2	47.8	47.4	47.2	47.0
72.5°	49.2	48.2	47.0	46.2	45.2	44.6	43.6	43.4	43.0	42.6	42.4
75°	43.6	42.4	42.0	41.2	40.6	40.2	39.4	39.2	38.8	38.2	38.0
77.5°	38.6	38.2	37.6	37.4	36.4	35.8	35.4	35.2	34.8	34.4	34.0
80°	34.4	34.2	33.8	33.6	33.0	32.2	31.8	32.0	31.4	31.2	30.6
82.5°	31.0	31.2	31.2	30.6	30.0	29.0	28.6	29.2	28.8	28.0	27.2
85°	26.4	26.2	26.4	26.2	25.0	24.0	23.6	24.0	23.8	22.6	22.4
87.5°	18.8	18.6	18.2	19.4	17.8	14.4	14.8	16.8	16.2	15.6	15.2
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-SLR-E01-E

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8
2.5°	335.4	334.8	335.2	335.4	334.8	336.2	334.8	335.0	335.4	334.2	334.0
5°	344.2	344.2	345.8	346.0	345.8	347.6	347.4	347.6	347.2	347.0	346.2
7.5°	351.4	352.2	353.4	355.2	355.8	357.2	357.6	357.8	358.6	359.4	359.0
10°	356.6	358.8	359.8	361.6	363.4	364.4	365.4	367.0	367.6	368.2	367.4
12.5°	360.2	362.8	364.4	366.6	368.8	370.4	372.2	374.2	376.2	376.8	375.8
15°	358.4	361.4	363.8	366.2	369.6	372.6	376.0	379.6	382.2	383.2	382.0
17.5°	347.2	350.2	353.8	357.4	361.0	366.6	371.4	377.4	381.6	384.6	385.0
20°	331.8	333.6	338.8	342.4	348.2	354.8	362.0	369.0	373.8	379.2	382.4
22.5°	309.0	312.6	318.4	324.6	330.4	339.0	346.6	355.8	364.0	371.4	378.4
25°	281.2	286.2	293.0	301.6	309.2	318.4	329.4	339.6	353.4	365.0	380.0
27.5°	251.2	260.4	269.8	278.8	287.2	297.6	309.0	320.4	336.2	354.8	374.4
30°	222.8	230.4	242.2	252.6	262.4	275.2	287.0	299.6	314.6	336.6	358.8
32.5°	193.2	199.4	208.6	221.4	232.8	247.8	258.2	273.2	290.6	313.8	339.0
35°	162.6	171.2	178.6	187.4	196.0	211.0	226.6	243.2	263.2	288.0	315.6
37.5°	135.6	141.0	144.6	153.6	161.2	174.0	192.2	212.2	234.2	259.4	289.0
40°	113.2	116.6	120.6	126.6	133.0	144.6	161.4	183.8	206.8	232.0	261.6
42.5°	97.8	100.0	100.4	105.0	111.0	122.4	135.8	156.4	181.8	208.2	237.8
45°	87.2	87.2	87.0	89.0	93.8	103.6	115.8	134.2	158.4	186.0	216.8
47.5°	79.8	80.4	80.2	81.0	84.2	91.4	102.4	118.0	140.0	167.0	198.0
50°	74.2	75.0	75.2	75.4	76.6	82.6	92.0	104.6	124.2	150.0	181.2
52.5°	69.8	70.0	70.0	69.8	70.2	73.6	81.4	93.0	111.2	134.4	164.4
55°	67.4	67.6	67.6	67.6	67.6	69.8	75.4	84.8	99.4	121.2	148.4
57.5°	64.6	64.6	65.0	65.0	65.0	65.8	69.8	77.6	88.8	106.2	130.4
60°	62.2	62.8	63.6	63.8	63.6	63.6	65.6	70.8	78.2	90.8	111.2
62.5°	58.6	59.4	60.4	60.8	61.0	60.6	61.6	63.8	68.2	74.8	88.6
63°	58.0	58.8	59.6	60.0	60.2	59.8	60.6	62.4	66.0	71.4	83.8
65°	55.4	56.4	56.6	56.8	56.6	56.4	56.2	56.2	57.2	59.2	65.8
67.5°	51.8	52.4	52.4	52.8	51.8	51.4	51.0	50.6	50.0	50.2	52.6
70°	47.6	48.0	47.8	47.6	47.2	46.6	46.2	45.6	44.4	44.0	45.2
72.5°	42.8	43.2	43.2	43.2	42.4	42.0	41.6	41.2	40.8	41.2	41.6
75°	38.4	38.4	38.8	38.6	38.0	37.6	37.4	37.2	37.2	37.2	37.0
77.5°	34.2	34.0	34.0	33.4	33.0	32.8	33.2	33.4	33.2	32.8	32.6
80°	30.6	29.6	28.6	27.8	27.6	28.0	28.4	29.6	29.0	29.0	28.6
82.5°	26.0	23.8	22.4	22.6	22.0	22.2	22.6	24.0	23.6	23.8	24.6
85°	20.8	18.8	16.6	17.0	17.0	16.6	17.6	18.0	18.4	19.4	18.6
87.5°	14.6	12.8	10.6	9.2	9.6	10.0	10.4	10.0	8.8	9.2	9.0
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°	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8
2.5°	333.6	333.8	333.8	332.4	332.0	332.4	332.2	332.2	331.0	331.2	330.8
5°	345.8	346.2	345.0	344.0	342.6	342.4	342.2	341.4	340.6	339.0	338.2
7.5°	358.8	357.0	356.6	354.8	354.2	352.6	351.4	350.2	349.2	348.4	347.8
10°	367.0	365.6	365.2	362.0	361.0	359.0	357.8	356.4	355.2	354.0	353.8
12.5°	374.4	372.0	370.6	366.2	364.2	362.0	361.0	359.8	359.4	359.2	360.0
15°	380.2	376.8	374.2	370.2	368.6	367.4	367.6	367.0	369.4	370.8	373.4
17.5°	384.0	382.6	382.0	379.0	380.0	380.0	382.8	384.2	388.6	392.2	395.8
20°	386.0	388.6	393.6	394.6	397.0	399.6	403.8	406.2	410.8	416.0	421.0
22.5°	387.8	398.8	409.0	416.6	422.0	428.0	431.0	436.0	439.2	443.0	450.6
25°	397.8	416.2	434.2	444.0	456.8	465.4	472.2	477.2	482.8	486.0	494.6
27.5°	395.0	418.4	442.4	460.4	480.4	496.6	511.0	520.6	527.8	539.4	546.6
30°	382.2	409.4	438.4	464.0	492.0	518.4	543.4	565.8	585.0	600.6	611.2
32.5°	364.0	395.2	429.2	460.8	496.6	531.8	567.8	602.0	634.6	660.4	676.6
35°	343.6	377.2	414.8	452.2	495.2	541.2	589.8	635.8	683.0	724.2	756.6
37.5°	318.8	355.2	396.4	439.8	489.2	544.4	605.6	668.2	728.4	790.8	836.4
40°	292.8	328.4	371.2	420.8	477.8	542.8	617.8	699.0	786.2	866.6	936.0
42.5°	270.6	305.4	350.2	399.2	460.6	536.8	626.0	726.6	834.0	938.2	1030.4
45°	248.8	286.0	331.2	383.0	450.0	534.4	636.6	750.6	873.2	996.8	1114.4
47.5°	231.6	268.4	314.0	369.6	441.4	533.0	646.6	773.0	905.2	1040.4	1179.8
50°	215.2	250.4	294.8	353.4	432.4	530.8	652.6	790.8	930.2	1074.6	1226.2
52.5°	198.4	235.0	278.2	335.0	420.6	526.4	654.4	804.8	956.0	1107.4	1269.6
55°	181.4	218.0	261.2	320.0	404.6	517.8	653.0	815.0	983.0	1142.0	1309.2
57.5°	160.6	196.6	241.8	301.0	384.0	500.6	646.2	819.4	999.8	1174.4	1349.0
60°	137.2	171.2	214.0	274.4	358.8	475.8	631.0	813.2	1007.4	1195.8	1391.2
62.5°	107.8	137.4	176.8	236.8	322.2	440.0	597.8	785.8	989.0	1190.4	1409.4
63°	101.2	129.8	170.4	226.8	311.4	427.6	588.0	776.4	980.8	1185.4	1407.2
65°	77.2	98.4	132.0	182.4	263.2	370.4	536.4	723.2	929.2	1135.6	1372.6
67.5°	57.0	68.0	88.6	122.4	185.2	288.2	439.6	624.6	819.6	1013.6	1254.8
70°	47.2	51.4	61.0	78.4	114.6	191.2	310.6	475.4	658.8	825.8	1043.6
72.5°	42.2	45.2	49.6	57.4	72.4	112.2	202.0	308.6	458.8	603.2	787.2
75°	37.8	39.8	43.4	48.0	54.8	70.2	106.8	183.0	280.4	406.4	540.0
77.5°	33.2	35.2	38.8	42.4	46.8	53.4	66.2	104.2	167.8	237.2	331.4
80°	28.8	29.8	32.8	38.0	41.2	46.6	50.8	65.2	91.4	124.2	176.6
82.5°	23.8	24.0	26.0	30.0	34.0	36.0	37.2	41.0	52.6	65.6	86.6
85°	17.0	16.2	17.4	19.0	22.2	20.4	21.8	23.0	28.0	33.8	62.0
87.5°	7.6	6.0	7.0	7.8	7.0	4.8	7.0	5.8	7.2	14.2	16.0
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°	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8	330.8	0°
2.5°	331.2	330.0	330.0	329.8	330.0	329.6	328.8	328.8	329.4	329.2	329.2	2.5°
5°	338.2	336.6	336.2	336.0	336.0	335.0	333.8	333.2	333.0	332.2	331.6	5°
7.5°	347.4	346.4	347.0	345.8	345.4	345.2	343.6	342.4	340.6	339.8	336.8	7.5°
10°	355.0	354.4	356.0	355.8	356.0	356.0	353.8	352.6	350.0	348.6	344.8	10°
12.5°	361.6	362.0	365.0	365.0	365.6	366.4	365.2	362.6	361.6	360.2	356.2	12.5°
15°	378.4	380.0	382.2	385.8	386.8	387.0	388.0	385.8	383.2	379.6	374.8	15°
17.5°	401.2	404.4	411.8	417.0	418.0	419.0	418.4	418.0	413.2	410.2	405.2	17.5°
20°	429.8	437.6	448.0	455.2	458.4	458.8	462.8	460.0	455.6	449.6	442.4	20°
22.5°	461.8	474.8	488.0	498.6	504.8	507.6	511.8	507.8	502.0	498.4	488.8	22.5°
25°	505.6	519.8	535.0	543.4	559.2	563.8	566.2	565.0	559.0	561.6	552.8	25°
27.5°	565.6	577.8	599.2	609.8	624.6	633.2	631.4	641.4	643.2	649.4	650.4	27.5°
30°	631.0	651.2	680.0	701.4	724.0	738.6	750.2	759.0	769.2	786.4	796.8	30°
32.5°	701.6	730.8	767.6	813.0	861.0	900.2	944.4	952.0	974.8	968.2	963.8	32.5°
35°	780.2	817.0	864.2	923.8	993.6	1058.4	1101.0	1122.4	1131.4	1136.4	1106.0	35°
37.5°	885.4	935.2	987.8	1052.8	1106.2	1166.8	1215.8	1269.0	1293.4	1281.8	1223.6	37.5°
40°	1002.0	1048.6	1119.8	1173.0	1236.0	1335.8	1402.2	1466.2	1486.2	1447.6	1356.4	40°
42.5°	1119.0	1183.0	1260.2	1335.8	1408.2	1498.6	1586.6	1649.8	1671.8	1605.8	1497.6	42.5°
45°	1223.2	1305.2	1396.0	1473.6	1574.8	1693.0	1800.8	1851.6	1847.6	1741.6	1619.8	45°
47.5°	1314.0	1420.4	1522.8	1627.4	1729.4	1862.8	1969.6	2028.0	1986.6	1875.2	1737.2	47.5°
50°	1389.0	1517.6	1641.2	1761.4	1886.6	2028.4	2131.4	2185.4	2122.4	1981.4	1827.2	50°
52.5°	1446.0	1605.4	1747.8	1882.2	2031.8	2185.0	2276.6	2309.2	2211.0	2063.6	1894.6	52.5°
55°	1499.8	1680.0	1837.6	1990.2	2176.4	2313.8	2399.6	2393.6	2266.8	2099.4	1936.8	55°
57.5°	1540.4	1743.6	1911.4	2085.2	2285.8	2432.6	2482.2	2442.6	2290.0	2110.0	1949.0	57.5°
60°	1591.6	1793.2	1977.0	2171.0	2389.8	2514.0	2520.6	2449.6	2283.4	2090.0	1931.8	60°
62.5°	1624.4	1824.2	2018.8	2229.8	2469.0	2559.8	2512.6	2419.4	2245.4	2040.6	1892.4	62.5°
63°	1627.6	1827.2	2022.2	2235.6	2480.2	2561.8	2505.2	2405.8	2234.2	2027.0	1882.0	63°
65°	1613.2	1818.6	2006.6	2225.2	2483.0	2538.2	2451.0	2350.0	2172.4	1957.6	1820.8	65°
67.5°	1512.6	1726.2	1905.6	2110.6	2375.0	2405.6	2318.2	2208.4	2041.6	1808.0	1687.0	67.5°
70°	1332.4	1535.4	1662.6	1853.0	2085.6	2122.2	2044.0	1959.0	1810.8	1615.6	1515.2	70°
72.5°	1073.4	1272.8	1349.2	1495.0	1679.8	1671.8	1616.8	1606.2	1528.2	1364.4	1304.0	72.5°
75°	802.4	992.2	1024.4	1083.8	1187.0	1184.4	1197.2	1242.8	1281.8	1185.0	1107.6	75°
77.5°	529.2	718.0	738.0	807.2	835.8	914.2	1006.2	1120.8	1177.6	1138.0	1043.0	77.5°
80°	292.8	491.2	487.2	514.2	564.8	678.8	818.2	988.4	1102.0	1073.6	969.6	80°
82.5°	152.2	310.4	305.8	310.6	357.6	453.4	559.4	698.6	816.0	818.6	783.6	82.5°
85°	113.2	222.8	236.0	246.8	278.0	311.4	330.8	375.4	439.8	499.8	521.2	85°
87.5°	41.6	133.8	166.6	179.0	179.8	175.6	143.0	157.4	143.2	169.4	236.6	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: P146020

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**DISTRIBUTION (continued):**

330°	335°	340°	345°	350°	355°	360°
330.8	330.8	330.8	330.8	330.8	330.8	330.8
329.6	329.6	329.4	329.8	330.0	330.6	330.4
331.0	330.4	329.8	329.4	329.0	329.2	328.8
334.6	332.6	331.0	329.6	328.4	328.2	327.0
342.6	339.0	336.0	333.8	331.4	330.2	328.0
352.8	348.8	345.0	341.8	339.0	337.4	335.8
370.6	364.8	360.2	356.8	354.0	352.2	350.6
397.0	389.8	382.8	376.2	375.4	371.2	371.2
433.4	423.6	414.6	409.0	406.4	400.8	400.8
483.8	474.2	460.8	454.0	454.6	449.8	452.0
549.0	541.0	527.2	524.4	524.4	519.2	511.4
646.8	644.0	628.8	632.6	624.6	605.2	584.2
792.0	792.0	762.6	741.4	723.0	692.8	655.8
937.4	918.4	873.4	837.4	799.2	753.0	705.4
1060.2	1009.6	964.0	920.0	862.6	813.0	746.2
1163.8	1115.8	1063.6	996.6	929.2	860.0	774.2
1292.2	1233.8	1155.4	1071.2	988.4	893.2	793.8
1409.6	1336.4	1237.4	1130.8	1025.4	919.2	803.2
1520.0	1425.6	1303.4	1175.4	1055.4	935.2	807.2
1624.0	1497.4	1355.2	1207.2	1076.0	943.8	806.2
1692.6	1550.0	1387.8	1226.4	1088.4	946.8	803.4
1735.6	1582.2	1407.0	1237.0	1094.6	947.4	803.2
1759.8	1600.4	1417.4	1244.4	1101.4	951.0	808.0
1778.6	1614.8	1429.0	1257.0	1117.6	967.8	827.4
1796.4	1652.6	1459.2	1280.2	1145.8	999.2	870.0
1803.8	1724.4	1520.6	1323.0	1185.2	1049.6	936.4
1803.2	1738.0	1538.4	1334.8	1195.6	1063.0	953.4
1781.4	1781.2	1619.4	1391.2	1244.0	1125.0	1024.4
1716.8	1802.8	1709.0	1465.6	1319.2	1227.2	1131.2
1614.6	1776.6	1721.2	1485.2	1372.6	1321.0	1202.4
1438.6	1651.4	1607.0	1401.6	1354.4	1339.4	1204.2
1163.6	1327.6	1308.6	1197.4	1214.8	1245.6	1075.6
937.4	932.2	929.4	889.0	963.0	1025.6	799.6
783.0	645.0	599.0	583.4	705.4	753.4	496.2
732.0	579.4	464.8	445.2	528.6	554.2	299.2
559.4	562.6	487.0	417.4	411.2	376.4	219.2
273.8	278.4	294.2	268.6	230.4	194.2	69.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)