

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: P146044

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146044
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-7030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
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

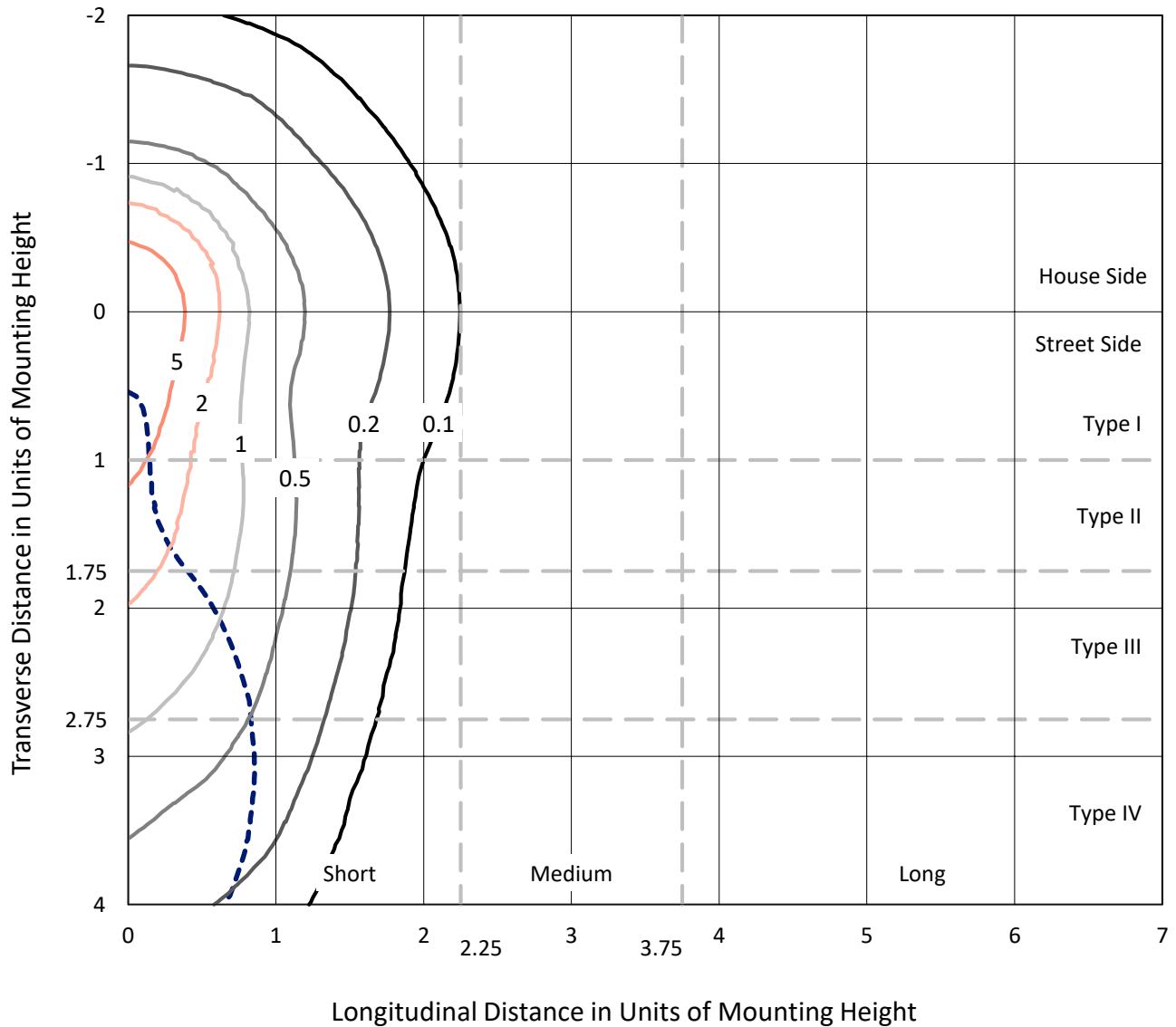
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

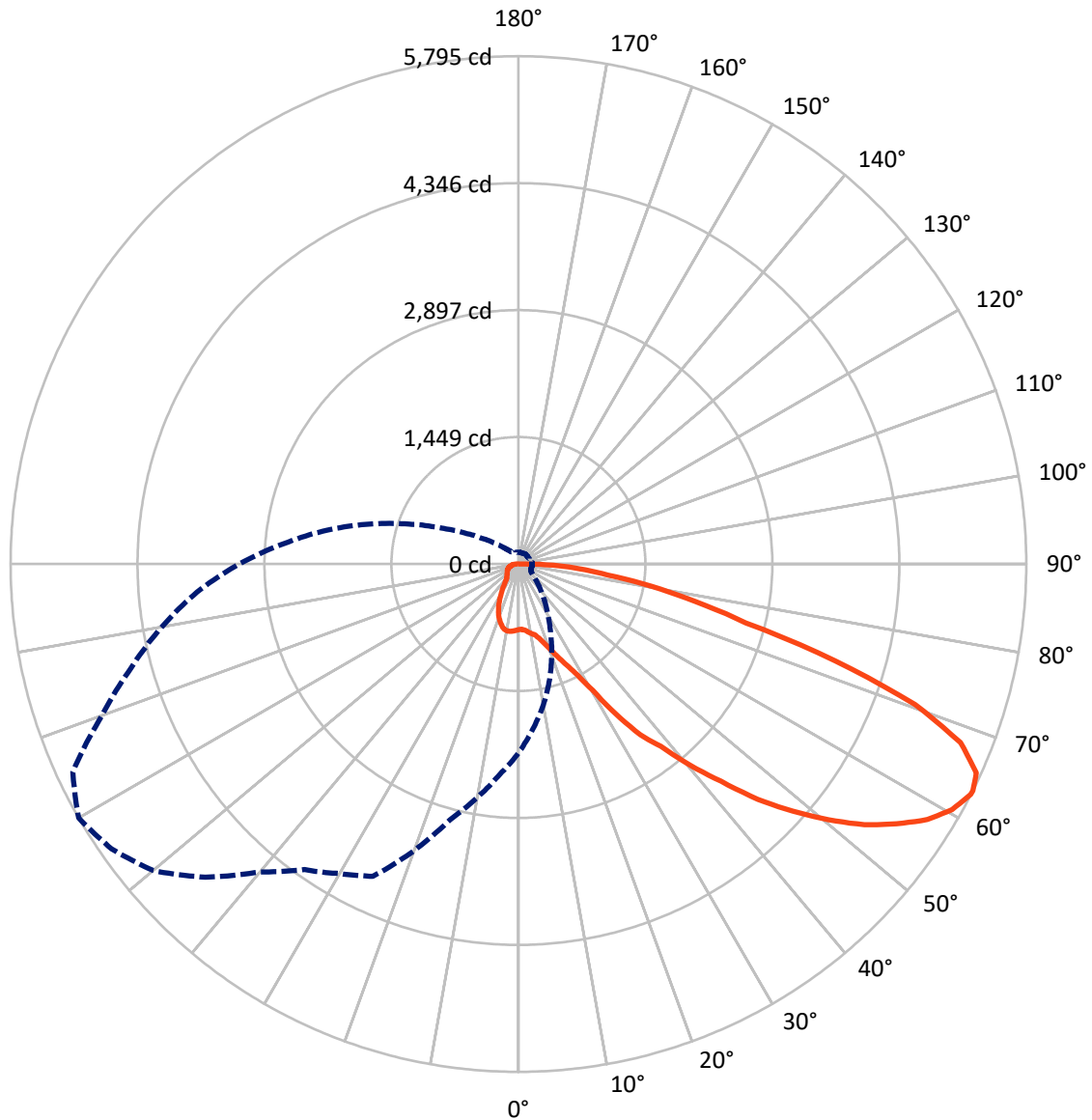
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.6 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
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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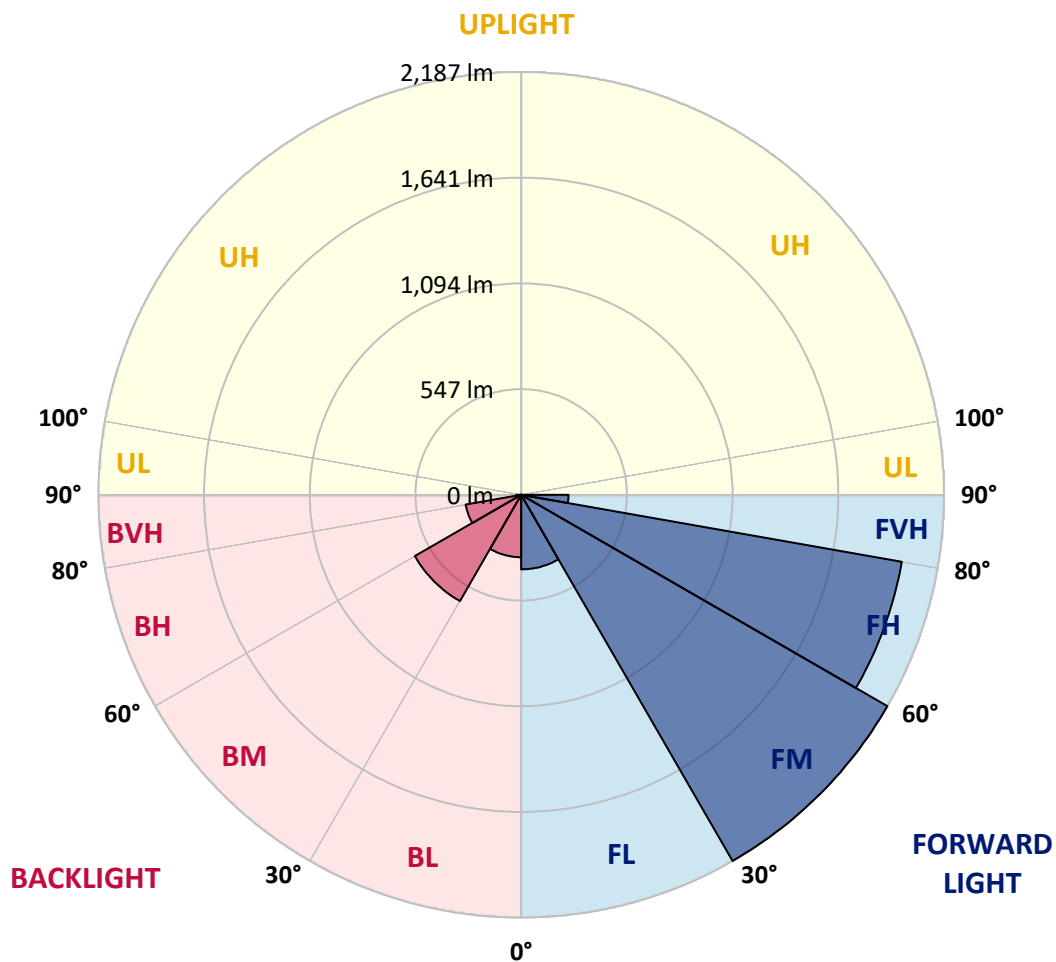
CATALOG NUMBER: LDRL-SLR-F03-E-7030

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	748.7	748.7	747.4	748.7	748.3	748.3	749.6	750.1	752.3	751.0
5°	743.7	744.2	744.6	743.7	744.2	744.2	745.1	746.5	746.9	749.6	748.3
7.5°	739.7	740.6	738.8	739.2	740.6	742.4	742.4	744.2	747.4	748.7	748.3
10°	741.9	741.0	739.7	739.2	740.1	740.6	741.5	744.6	747.4	748.7	751.0
12.5°	759.6	756.9	755.5	755.0	755.5	754.6	757.8	758.7	759.6	761.4	760.5
15°	793.1	789.4	787.2	784.9	789.9	787.6	787.6	784.9	780.4	773.6	765.0
17.5°	839.6	835.6	833.8	832.9	833.3	829.2	821.1	808.0	792.1	774.0	757.3
20°	906.6	912.9	910.2	898.0	893.5	875.4	849.6	822.5	794.9	765.9	738.3
22.5°	1022.4	1018.8	1006.6	976.3	949.1	908.4	862.3	818.4	777.7	735.6	699.4
25°	1156.8	1126.5	1092.1	1032.4	969.9	903.0	836.5	784.5	730.2	684.0	640.6
27.5°	1321.4	1255.9	1168.1	1070.8	977.6	888.5	809.8	741.0	679.0	629.7	581.3
30°	1483.4	1373.9	1251.8	1122.8	997.1	876.7	772.7	693.1	621.6	558.3	509.4
32.5°	1595.6	1463.0	1311.0	1151.8	998.9	857.7	732.0	637.0	556.4	492.7	433.8
35°	1687.9	1522.3	1331.9	1147.3	969.9	813.4	673.6	568.2	482.7	416.7	365.1
37.5°	1751.2	1552.6	1330.5	1121.0	918.4	742.8	606.7	499.4	419.8	358.3	310.8
40°	1795.6	1562.1	1312.9	1076.3	859.1	674.5	535.2	437.5	367.8	319.8	285.5
42.5°	1816.8	1555.8	1286.6	1033.7	800.3	619.3	481.3	395.8	339.3	303.1	277.8
45°	1825.9	1540.4	1257.2	992.1	752.3	571.8	453.8	383.2	338.8	307.6	280.0
47.5°	1823.6	1523.7	1231.0	957.7	723.8	559.2	459.2	400.4	355.6	316.7	281.4
50°	1817.3	1508.3	1214.2	945.1	723.4	578.2	489.5	429.3	375.0	324.8	280.0
52.5°	1816.8	1506.9	1223.3	960.0	749.6	621.1	535.2	462.8	394.0	333.9	280.5
55°	1827.7	1531.4	1261.7	1000.2	813.0	681.3	586.8	498.5	415.3	340.2	279.1
57.5°	1871.6	1592.4	1334.6	1090.3	894.4	754.6	636.5	525.2	423.4	338.4	272.8
60°	1967.9	1699.7	1446.8	1217.4	998.9	821.6	665.9	534.3	419.8	327.5	259.2
62.5°	2118.1	1854.8	1600.6	1342.3	1091.6	861.8	672.7	527.0	405.3	309.4	242.5
63°	2156.6	1890.6	1631.8	1368.0	1107.5	865.9	672.3	524.3	401.3	304.9	238.4
65°	2317.2	2043.9	1757.1	1453.1	1150.0	874.0	661.9	507.1	383.2	283.7	219.9
67.5°	2558.8	2213.1	1881.5	1532.3	1173.5	859.6	629.3	464.6	336.6	246.6	192.3
70°	2719.8	2325.3	1955.7	1558.1	1145.9	793.5	554.6	389.5	275.1	203.1	164.2
72.5°	2723.9	2224.9	1855.3	1424.1	989.4	654.6	434.3	294.5	214.0	165.1	141.6
75°	2433.0	1880.2	1516.4	1169.4	761.4	462.8	305.4	214.9	164.2	136.2	122.6
77.5°	1808.7	1371.7	1094.3	786.7	494.5	299.9	212.6	159.2	130.3	112.6	102.7
80°	1122.4	857.3	664.1	470.5	296.3	199.5	155.6	126.7	109.5	94.1	86.0
82.5°	676.8	480.0	375.0	284.1	189.6	143.9	119.9	106.8	92.7	79.2	72.8
85°	495.8	343.4	251.5	175.5	117.2	95.0	84.1	81.4	71.9	61.1	57.5
87.5°	156.1	163.8	170.1	103.6	56.5	43.0	36.6	43.0	41.2	29.0	31.7
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):

	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°	753.2	755.0	753.7	753.7	752.8	752.3	755.5	754.6	755.5	755.0	756.0
5°	750.5	751.9	751.0	751.9	751.0	751.0	755.0	755.0	756.9	757.8	760.0
7.5°	751.4	751.9	751.4	752.8	751.9	751.0	753.2	754.6	757.8	760.5	762.7
10°	754.6	756.0	755.5	755.5	752.8	751.0	752.3	753.2	756.4	757.8	760.5
12.5°	762.3	760.5	756.9	754.6	748.3	744.6	742.8	741.9	744.2	746.0	747.4
15°	760.5	750.5	742.4	735.6	726.1	720.2	715.7	715.2	715.7	716.1	717.5
17.5°	741.9	728.4	712.1	703.5	692.6	686.3	683.1	680.9	680.4	681.3	683.6
20°	715.2	695.3	677.2	662.3	650.5	640.6	642.9	637.9	640.1	641.5	645.6
22.5°	674.5	646.9	626.1	608.0	594.0	583.6	583.6	579.1	580.0	584.0	589.5
25°	608.5	582.7	552.8	540.2	524.3	517.1	515.7	514.8	518.4	523.4	526.6
27.5°	548.8	513.5	484.1	467.3	450.6	452.4	443.3	448.8	452.8	456.9	460.5
30°	468.2	439.3	412.6	395.8	375.9	376.4	377.8	378.7	382.3	387.7	394.9
32.5°	390.9	359.7	334.8	316.7	304.9	301.3	296.3	304.5	309.0	314.4	321.7
35°	327.1	294.5	273.7	257.9	251.1	246.1	244.7	243.8	247.9	250.6	256.5
37.5°	281.4	259.2	243.8	232.5	226.2	220.8	219.4	218.5	218.1	217.2	220.8
40°	262.8	245.2	232.1	221.7	215.8	212.6	211.3	209.5	207.6	205.4	204.9
42.5°	257.4	238.4	223.0	212.6	208.1	207.6	207.6	206.7	204.9	201.8	199.5
45°	255.2	232.1	214.4	206.3	203.1	203.6	203.6	203.6	202.2	199.1	195.4
47.5°	251.1	224.4	206.3	199.5	198.1	199.1	200.0	200.0	199.1	196.3	192.3
50°	243.4	212.6	193.6	187.3	186.8	187.3	187.3	188.2	187.3	185.0	181.4
52.5°	237.5	203.6	184.1	179.1	179.1	178.7	178.2	178.2	177.8	176.0	173.3
55°	232.1	197.7	180.1	176.0	176.9	176.9	176.0	175.5	173.7	171.5	168.7
57.5°	224.4	191.4	176.0	173.3	174.2	173.7	173.3	172.8	171.0	168.3	164.7
60°	210.8	180.1	167.8	166.0	167.4	167.8	169.6	170.1	169.2	166.0	161.1
62.5°	195.9	166.0	157.0	155.6	157.0	158.3	159.7	158.8	158.8	155.6	151.1
63°	190.9	163.8	153.8	153.8	155.2	156.5	157.4	156.5	157.0	153.4	148.8
65°	179.6	155.6	147.9	148.4	149.7	150.6	151.1	151.1	150.6	147.9	143.9
67.5°	160.6	143.9	139.3	141.6	143.4	143.9	143.9	144.8	143.9	142.1	138.4
70°	143.4	132.6	129.4	132.1	133.0	133.5	133.5	133.5	132.6	130.7	127.6
72.5°	130.3	124.9	124.4	124.0	124.4	123.1	123.1	122.1	119.9	118.5	115.8
75°	115.8	113.1	113.6	113.1	112.2	111.7	109.5	108.6	105.9	104.1	100.4
77.5°	99.5	100.0	99.5	100.0	100.9	101.3	98.2	95.9	93.6	91.8	90.0
80°	82.8	83.7	82.8	83.7	84.1	84.1	81.0	77.4	75.6	76.9	77.4
82.5°	73.7	73.7	70.1	71.0	70.1	68.8	66.5	65.1	63.8	62.9	65.1
85°	58.4	58.8	59.7	58.8	57.0	55.6	53.4	51.6	50.2	51.6	54.7
87.5°	34.8	37.5	36.2	36.2	35.7	35.7	33.9	33.0	31.7	37.1	39.8
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°	755.5	756.9	757.3	756.9	757.3	758.2	754.6	758.2	758.7	756.0	756.9
5°	761.8	764.1	767.3	767.3	769.5	770.9	769.1	774.0	775.0	774.5	776.8
7.5°	766.4	769.5	773.6	775.9	779.9	781.7	783.1	787.6	788.5	790.3	792.1
10°	765.9	770.4	774.0	780.4	785.4	789.0	791.7	796.7	798.5	801.2	802.6
12.5°	752.8	757.8	764.5	773.6	782.6	788.5	795.8	803.0	805.7	809.3	811.6
15°	723.4	727.5	737.0	748.7	760.9	775.9	786.3	797.6	802.6	806.2	809.3
17.5°	684.9	688.5	697.1	707.5	723.8	738.3	754.1	771.3	779.9	784.0	785.4
20°	649.2	654.6	656.9	669.1	674.5	689.0	702.6	721.6	732.4	739.7	744.2
22.5°	593.1	595.8	607.6	612.5	616.6	625.7	642.4	659.1	673.6	685.4	689.0
25°	531.1	538.4	544.7	548.8	558.3	558.7	572.3	584.0	602.1	613.4	622.5
27.5°	462.8	473.7	477.3	480.0	487.2	495.8	500.8	512.6	523.0	536.1	552.4
30°	394.0	404.4	411.7	415.8	422.5	430.7	434.3	442.0	455.6	470.0	482.7
32.5°	329.8	340.7	344.3	357.4	359.2	366.9	369.6	381.8	389.5	401.7	416.7
35°	266.9	278.2	289.1	296.3	304.5	304.0	311.2	322.6	329.3	342.0	352.0
37.5°	223.9	230.7	238.4	246.6	255.6	262.4	269.2	274.2	279.6	288.2	297.2
40°	204.9	206.7	209.9	214.9	221.2	226.2	231.2	235.2	239.3	246.1	252.0
42.5°	197.2	195.9	195.9	195.0	197.2	200.0	204.0	205.4	211.7	215.8	218.1
45°	191.8	188.6	186.4	183.7	182.8	183.7	185.9	189.1	193.2	194.5	194.5
47.5°	188.6	183.7	180.1	176.0	173.7	173.7	175.1	177.3	179.6	180.1	179.6
50°	177.8	172.8	168.3	164.7	162.9	162.9	163.3	166.5	166.9	166.0	166.5
52.5°	169.6	164.7	160.1	157.0	154.7	155.2	156.5	157.9	159.2	158.3	157.4
55°	164.7	158.8	154.7	151.1	148.4	149.3	150.6	152.5	154.7	153.4	152.0
57.5°	160.1	155.2	150.2	146.6	143.4	144.3	145.7	148.4	151.1	148.4	146.6
60°	156.1	151.1	146.1	142.5	138.9	139.8	141.6	144.3	146.6	143.0	140.7
62.5°	146.1	141.6	138.0	136.2	133.9	135.3	136.6	139.8	138.9	135.3	132.6
63°	144.3	139.8	136.6	134.8	133.0	134.8	135.3	138.4	137.1	133.5	131.2
65°	138.9	135.3	132.1	130.3	128.5	129.4	129.4	130.7	128.9	126.2	124.4
67.5°	133.9	129.8	126.7	123.1	121.2	120.3	119.9	119.4	118.1	116.7	116.3
70°	123.1	120.3	117.6	114.5	111.7	109.9	109.0	108.1	107.2	106.8	106.3
72.5°	111.3	109.0	106.3	104.5	102.2	100.9	98.6	98.2	97.3	96.4	95.9
75°	98.6	95.9	95.0	93.2	91.8	90.9	89.1	88.7	87.8	86.4	86.0
77.5°	87.3	86.4	85.1	84.6	82.3	81.0	80.1	79.6	78.7	77.8	76.9
80°	77.8	77.4	76.5	76.0	74.6	72.8	71.9	72.4	71.0	70.6	69.2
82.5°	70.1	70.6	70.6	69.2	67.9	65.6	64.7	66.0	65.1	63.3	61.5
85°	59.7	59.3	59.7	59.3	56.5	54.3	53.4	54.3	53.8	51.1	50.7
87.5°	42.5	42.1	41.2	43.9	40.3	32.6	33.5	38.0	36.6	35.3	34.4
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):

	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°	758.7	757.3	758.2	758.7	757.3	760.5	757.3	757.8	758.7	756.0	755.5
5°	778.6	778.6	782.2	782.6	782.2	786.3	785.8	786.3	785.4	784.9	783.1
7.5°	794.9	796.7	799.4	803.5	804.8	808.0	808.9	809.3	811.1	813.0	812.1
10°	806.6	811.6	813.9	817.9	822.0	824.3	826.5	830.1	831.5	832.9	831.1
12.5°	814.8	820.6	824.3	829.2	834.2	837.8	841.9	846.4	851.0	852.3	850.1
15°	810.7	817.5	822.9	828.3	836.0	842.8	850.5	858.6	864.5	866.8	864.1
17.5°	785.4	792.1	800.3	808.4	816.6	829.2	840.1	853.7	863.2	870.0	870.9
20°	750.5	754.6	766.4	774.5	787.6	802.6	818.8	834.7	845.5	857.7	865.0
22.5°	699.0	707.1	720.2	734.2	747.4	766.8	784.0	804.8	823.4	840.1	855.9
25°	636.1	647.4	662.8	682.2	699.4	720.2	745.1	768.2	799.4	825.6	859.6
27.5°	568.2	589.0	610.3	630.6	649.6	673.2	699.0	724.7	760.5	802.6	846.9
30°	504.0	521.2	547.9	571.4	593.5	622.5	649.2	677.7	711.6	761.4	811.6
32.5°	437.0	451.0	471.8	500.8	526.6	560.5	584.0	618.0	657.3	709.8	766.8
35°	367.8	387.3	404.0	423.9	443.3	477.3	512.6	550.1	595.4	651.5	713.9
37.5°	306.7	318.9	327.1	347.4	364.6	393.6	434.8	480.0	529.8	586.8	653.7
40°	256.1	263.7	272.8	286.4	300.8	327.1	365.1	415.8	467.8	524.8	591.7
42.5°	221.2	226.2	227.1	237.5	251.1	276.9	307.2	353.8	411.2	470.9	537.9
45°	197.2	197.2	196.8	201.3	212.2	234.3	261.9	303.6	358.3	420.7	490.4
47.5°	180.5	181.9	181.4	183.2	190.5	206.7	231.6	266.9	316.7	377.8	447.9
50°	167.8	169.6	170.1	170.6	173.3	186.8	208.1	236.6	280.9	339.3	409.9
52.5°	157.9	158.3	158.3	157.9	158.8	166.5	184.1	210.4	251.5	304.0	371.9
55°	152.5	152.9	152.9	152.9	152.9	157.9	170.6	191.8	224.8	274.2	335.7
57.5°	146.1	146.1	147.0	147.0	147.0	148.8	157.9	175.5	200.9	240.2	295.0
60°	140.7	142.1	143.9	144.3	143.9	143.9	148.4	160.1	176.9	205.4	251.5
62.5°	132.6	134.4	136.6	137.5	138.0	137.1	139.3	144.3	154.3	169.2	200.4
63°	131.2	133.0	134.8	135.7	136.2	135.3	137.1	141.1	149.3	161.5	189.6
65°	125.3	127.6	128.0	128.5	128.0	127.6	127.1	127.1	129.4	133.9	148.8
67.5°	117.2	118.5	118.5	119.4	117.2	116.3	115.4	114.5	113.1	113.6	119.0
70°	107.7	108.6	108.1	107.7	106.8	105.4	104.5	103.1	100.4	99.5	102.2
72.5°	96.8	97.7	97.7	97.7	95.9	95.0	94.1	93.2	92.3	93.2	94.1
75°	86.9	86.9	87.8	87.3	86.0	85.1	84.6	84.1	84.1	84.1	83.7
77.5°	77.4	76.9	76.9	75.6	74.6	74.2	75.1	75.6	75.1	74.2	73.7
80°	69.2	67.0	64.7	62.9	62.4	63.3	64.2	67.0	65.6	65.6	64.7
82.5°	58.8	53.8	50.7	51.1	49.8	50.2	51.1	54.3	53.4	53.8	55.6
85°	47.0	42.5	37.5	38.5	38.5	37.5	39.8	40.7	41.6	43.9	42.1
87.5°	33.0	29.0	24.0	20.8	21.7	22.6	23.5	22.6	19.9	20.8	20.4
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: P146044

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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	755.0	755.0	751.9	751.0	751.9	751.4	751.4	748.7	749.2	748.3
5°	782.2	783.1	780.4	778.1	775.0	774.5	774.0	772.2	770.4	766.8	765.0
7.5°	811.6	807.5	806.6	802.6	801.2	797.6	794.9	792.1	789.9	788.1	786.7
10°	830.1	827.0	826.1	818.8	816.6	812.1	809.3	806.2	803.5	800.7	800.3
12.5°	846.9	841.5	838.3	828.3	823.8	818.8	816.6	813.9	813.0	812.5	814.3
15°	860.0	852.3	846.4	837.4	833.8	831.1	831.5	830.1	835.6	838.7	844.6
17.5°	868.6	865.4	864.1	857.3	859.6	859.6	865.9	869.1	879.0	887.1	895.3
20°	873.1	879.0	890.3	892.6	898.0	903.9	913.4	918.8	929.2	941.0	952.3
22.5°	877.2	902.1	925.1	942.3	954.6	968.1	974.9	986.2	993.5	1002.1	1019.2
25°	899.8	941.4	982.2	1004.3	1033.3	1052.7	1068.1	1079.4	1092.1	1099.3	1118.8
27.5°	893.5	946.4	1000.7	1041.4	1086.7	1123.3	1155.9	1177.6	1193.9	1220.1	1236.4
30°	864.5	926.1	991.7	1049.6	1112.9	1172.6	1229.2	1279.8	1323.3	1358.5	1382.5
32.5°	823.4	893.9	970.8	1042.3	1123.3	1202.9	1284.4	1361.7	1435.5	1493.8	1530.5
35°	777.2	853.2	938.3	1022.9	1120.1	1224.2	1334.1	1438.2	1544.9	1638.1	1711.4
37.5°	721.1	803.5	896.6	994.8	1106.6	1231.4	1369.9	1511.5	1647.6	1788.8	1891.9
40°	662.3	742.8	839.6	951.8	1080.8	1227.8	1397.5	1581.1	1778.4	1960.2	2117.2
42.5°	612.1	690.8	792.1	903.0	1041.9	1214.2	1416.0	1643.6	1886.5	2122.2	2330.7
45°	562.8	646.9	749.2	866.3	1017.9	1208.8	1440.0	1697.8	1975.2	2254.7	2520.8
47.5°	523.9	607.1	710.3	836.0	998.4	1205.6	1462.6	1748.5	2047.5	2353.4	2668.7
50°	486.8	566.4	666.8	799.4	978.1	1200.7	1476.2	1788.8	2104.1	2430.7	2773.6
52.5°	448.8	531.6	629.3	757.8	951.4	1190.7	1480.2	1820.4	2162.5	2504.9	2871.8
55°	410.3	493.1	590.8	723.8	915.2	1171.3	1477.1	1843.5	2223.5	2583.2	2961.4
57.5°	363.3	444.7	546.9	680.9	868.6	1132.3	1461.7	1853.5	2261.5	2656.5	3051.4
60°	310.3	387.3	484.1	620.7	811.6	1076.3	1427.3	1839.4	2278.7	2704.9	3146.9
62.5°	243.8	310.8	399.9	535.6	728.8	995.3	1352.2	1777.5	2237.1	2692.7	3188.0
63°	228.9	293.6	385.4	513.0	704.4	967.2	1330.0	1756.2	2218.6	2681.4	3183.1
65°	174.6	222.6	298.6	412.6	595.4	837.8	1213.3	1635.9	2101.8	2568.7	3104.8
67.5°	128.9	153.8	200.4	276.9	418.9	651.9	994.4	1412.8	1853.9	2292.7	2838.3
70°	106.8	116.3	138.0	177.3	259.2	432.5	702.6	1075.3	1490.2	1867.9	2360.6
72.5°	95.5	102.2	112.2	129.8	163.8	253.8	456.9	698.0	1037.8	1364.4	1780.6
75°	85.5	90.0	98.2	108.6	124.0	158.8	241.6	413.9	634.3	919.3	1221.5
77.5°	75.1	79.6	87.8	95.9	105.9	120.8	149.7	235.7	379.6	536.5	749.6
80°	65.1	67.4	74.2	86.0	93.2	105.4	114.9	147.5	206.7	280.9	399.5
82.5°	53.8	54.3	58.8	67.9	76.9	81.4	84.1	92.7	119.0	148.4	195.9
85°	38.5	36.6	39.4	43.0	50.2	46.1	49.3	52.0	63.3	76.5	140.2
87.5°	17.2	13.6	15.8	17.6	15.8	10.9	15.8	13.1	16.3	32.1	36.2
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: P146044
 CATALOG NUMBER: LDRL-SLR-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°	749.2	746.5	746.5	746.0	746.5	745.5	743.7	743.7	745.1	744.6	744.6	2.5°
5°	765.0	761.4	760.5	760.0	760.0	757.8	755.0	753.7	753.2	751.4	750.1	5°
7.5°	785.8	783.6	784.9	782.2	781.3	780.8	777.2	774.5	770.4	768.6	761.8	7.5°
10°	803.0	801.6	805.3	804.8	805.3	805.3	800.3	797.6	791.7	788.5	779.9	10°
12.5°	817.9	818.8	825.6	825.6	827.0	828.8	826.1	820.2	817.9	814.8	805.7	12.5°
15°	855.9	859.6	864.5	872.7	874.9	875.4	877.6	872.7	866.8	858.6	847.8	15°
17.5°	907.5	914.7	931.5	943.2	945.5	947.8	946.4	945.5	934.7	927.9	916.6	17.5°
20°	972.2	989.8	1013.4	1029.7	1036.9	1037.8	1046.8	1040.5	1030.6	1017.0	1000.7	20°
22.5°	1044.6	1074.0	1103.8	1127.8	1141.8	1148.2	1157.7	1148.6	1135.5	1127.4	1105.7	22.5°
25°	1143.7	1175.8	1210.2	1229.2	1264.9	1275.3	1280.7	1278.0	1264.4	1270.3	1250.4	25°
27.5°	1279.4	1307.0	1355.4	1379.4	1412.8	1432.3	1428.2	1450.8	1454.9	1468.9	1471.2	27.5°
30°	1427.3	1473.0	1538.1	1586.6	1637.7	1670.7	1696.9	1716.8	1739.9	1778.8	1802.3	30°
32.5°	1587.0	1653.1	1736.3	1839.0	1947.6	2036.2	2136.2	2153.4	2205.0	2190.0	2180.1	32.5°
35°	1764.8	1848.0	1954.8	2089.6	2247.5	2394.1	2490.4	2538.8	2559.2	2570.5	2501.8	35°
37.5°	2002.8	2115.4	2234.4	2381.4	2502.2	2639.3	2750.1	2870.5	2925.6	2899.4	2767.8	37.5°
40°	2266.5	2371.9	2533.0	2653.3	2795.8	3021.6	3171.7	3316.5	3361.8	3274.4	3068.2	40°
42.5°	2531.2	2675.9	2850.5	3021.6	3185.3	3389.8	3588.9	3731.8	3781.6	3632.3	3387.5	42.5°
45°	2766.9	2952.3	3157.7	3333.3	3562.2	3829.5	4073.4	4188.3	4179.2	3939.5	3664.0	45°
47.5°	2972.2	3212.9	3444.5	3681.1	3911.9	4213.6	4455.2	4587.3	4493.7	4241.7	3929.5	47.5°
50°	3141.9	3432.8	3712.4	3984.3	4267.5	4588.2	4821.2	4943.3	4800.8	4481.9	4133.1	50°
52.5°	3270.8	3631.4	3953.5	4257.5	4595.9	4942.4	5149.6	5223.4	5001.2	4667.8	4285.5	52.5°
55°	3392.5	3800.1	4156.6	4501.8	4923.0	5233.8	5427.8	5414.3	5127.5	4748.8	4381.0	55°
57.5°	3484.4	3944.0	4323.5	4716.7	5170.4	5502.5	5614.7	5525.1	5179.9	4772.8	4408.6	57.5°
60°	3600.2	4056.2	4471.9	4910.8	5405.7	5686.6	5701.5	5540.9	5165.0	4727.5	4369.7	60°
62.5°	3674.4	4126.3	4566.5	5043.8	5584.8	5790.2	5683.5	5472.6	5079.1	4615.8	4280.6	62.5°
63°	3681.6	4133.1	4574.2	5056.9	5610.2	5794.7	5666.7	5441.9	5053.7	4585.0	4257.0	63°
65°	3649.0	4113.6	4538.9	5033.4	5616.5	5741.4	5544.1	5315.7	4913.9	4428.1	4118.6	65°
67.5°	3421.5	3904.6	4310.4	4774.1	5372.2	5441.4	5243.7	4995.4	4618.1	4089.7	3816.0	67.5°
70°	3013.9	3473.0	3760.8	4191.4	4717.6	4800.4	4623.5	4431.2	4096.0	3654.5	3427.4	70°
72.5°	2428.0	2879.0	3051.9	3381.7	3799.7	3781.6	3657.2	3633.2	3456.8	3086.2	2949.6	72.5°
75°	1815.0	2244.3	2317.2	2451.5	2685.0	2679.1	2708.0	2811.2	2899.4	2680.4	2505.4	75°
77.5°	1197.0	1624.1	1669.3	1825.9	1890.6	2067.9	2276.0	2535.2	2663.7	2574.1	2359.2	77.5°
80°	662.3	1111.1	1102.0	1163.1	1277.6	1535.4	1850.8	2235.7	2492.7	2428.5	2193.2	80°
82.5°	344.3	702.1	691.7	702.6	808.9	1025.6	1265.4	1580.2	1845.8	1851.7	1772.5	82.5°
85°	256.1	504.0	533.8	558.3	628.8	704.4	748.3	849.1	994.8	1130.5	1178.9	85°
87.5°	94.1	302.7	376.8	404.9	406.7	397.2	323.5	356.0	323.9	383.2	535.2	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
745.5	745.5	745.1	746.0	746.5	747.8	747.4
748.7	747.4	746.0	745.1	744.2	744.6	743.7
756.9	752.3	748.7	745.5	742.8	742.4	739.7
775.0	766.8	760.0	755.0	749.6	746.9	741.9
798.0	789.0	780.4	773.1	766.8	763.2	759.6
838.3	825.2	814.8	807.1	800.7	796.7	793.1
898.0	881.7	865.9	851.0	849.1	839.6	839.6
980.3	958.2	937.8	925.1	919.3	906.6	906.6
1094.3	1072.6	1042.3	1026.9	1028.3	1017.4	1022.4
1241.8	1223.7	1192.5	1186.2	1186.2	1174.4	1156.8
1463.0	1456.7	1422.3	1430.9	1412.8	1369.0	1321.4
1791.5	1791.5	1725.0	1677.0	1635.4	1567.1	1483.4
2120.4	2077.4	1975.6	1894.2	1807.8	1703.3	1595.6
2398.2	2283.7	2180.5	2081.0	1951.2	1839.0	1687.9
2632.5	2523.9	2405.8	2254.3	2101.8	1945.3	1751.2
2922.9	2790.8	2613.5	2423.0	2235.7	2020.4	1795.6
3188.5	3022.9	2799.0	2557.8	2319.4	2079.2	1816.8
3438.2	3224.7	2948.3	2658.7	2387.3	2115.4	1825.9
3673.5	3387.1	3065.4	2730.7	2433.9	2134.9	1823.6
3828.6	3506.1	3139.2	2774.1	2461.9	2141.6	1817.3
3925.9	3578.9	3182.6	2798.1	2476.0	2143.0	1816.8
3980.6	3620.1	3206.1	2814.8	2491.3	2151.1	1827.7
4023.2	3652.6	3232.4	2843.3	2528.0	2189.1	1871.6
4063.4	3738.1	3300.7	2895.8	2591.8	2260.2	1967.9
4080.2	3900.6	3439.6	2992.6	2680.9	2374.2	2118.1
4078.8	3931.3	3479.8	3019.3	2704.4	2404.5	2156.6
4029.5	4029.0	3663.1	3146.9	2813.9	2544.7	2317.2
3883.4	4077.9	3865.7	3315.2	2984.0	2775.9	2558.8
3652.2	4018.6	3893.3	3359.5	3104.8	2988.1	2719.8
3254.1	3735.4	3635.0	3170.4	3063.6	3029.7	2723.9
2632.0	3003.0	2960.0	2708.5	2747.9	2817.5	2433.0
2120.4	2108.6	2102.3	2010.9	2178.3	2319.9	1808.7
1771.1	1459.0	1354.9	1319.6	1595.6	1704.2	1122.4
1655.8	1310.6	1051.4	1007.0	1195.7	1253.6	676.8
1265.4	1272.6	1101.6	944.2	930.1	851.4	495.8
619.3	629.7	665.5	607.6	521.2	439.3	156.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)