

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: P146024

Luminaire Tested: **LDRL-SLR-F01-E-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146024
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-F01-E-7030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (7) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2030.8 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

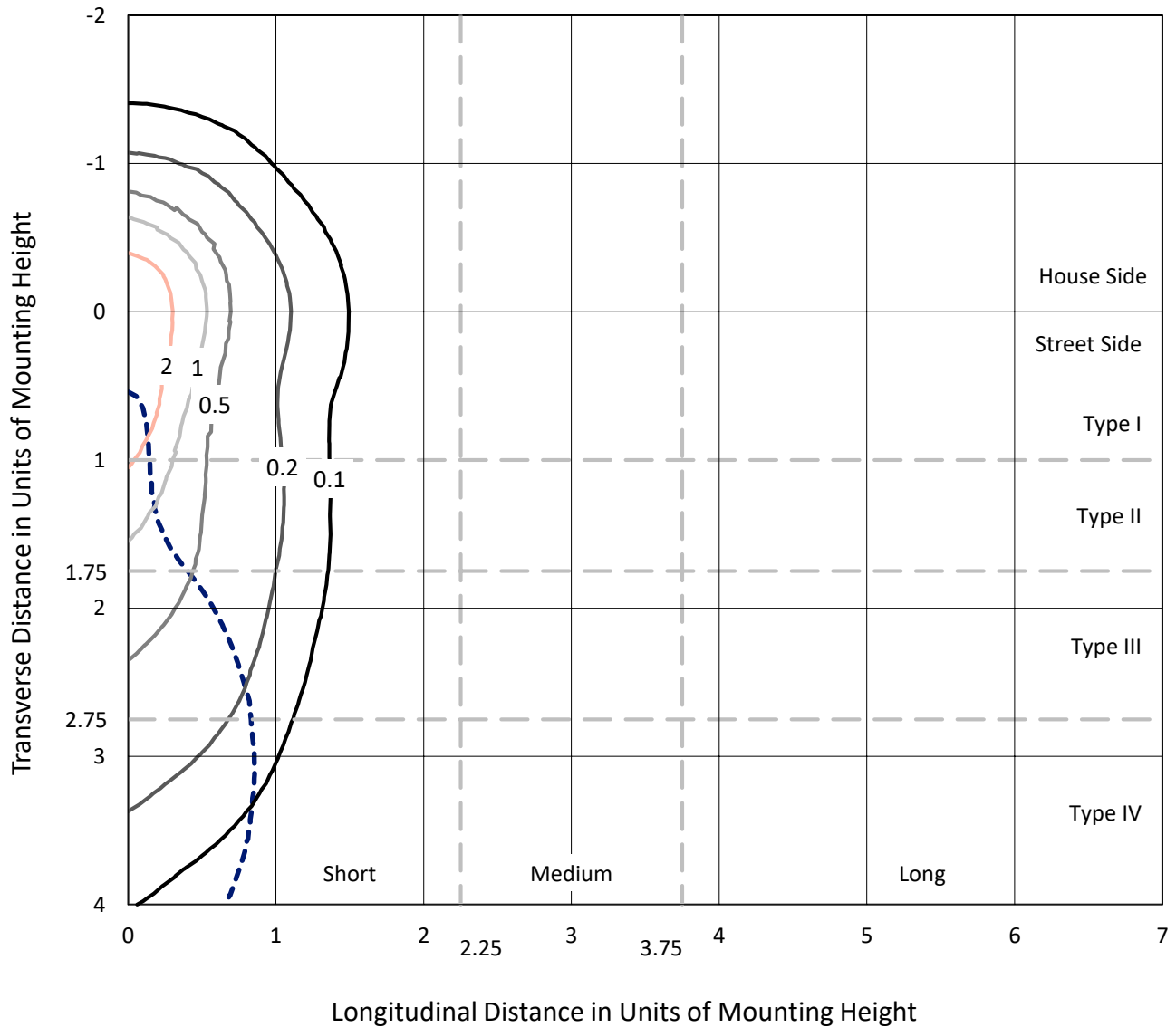
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

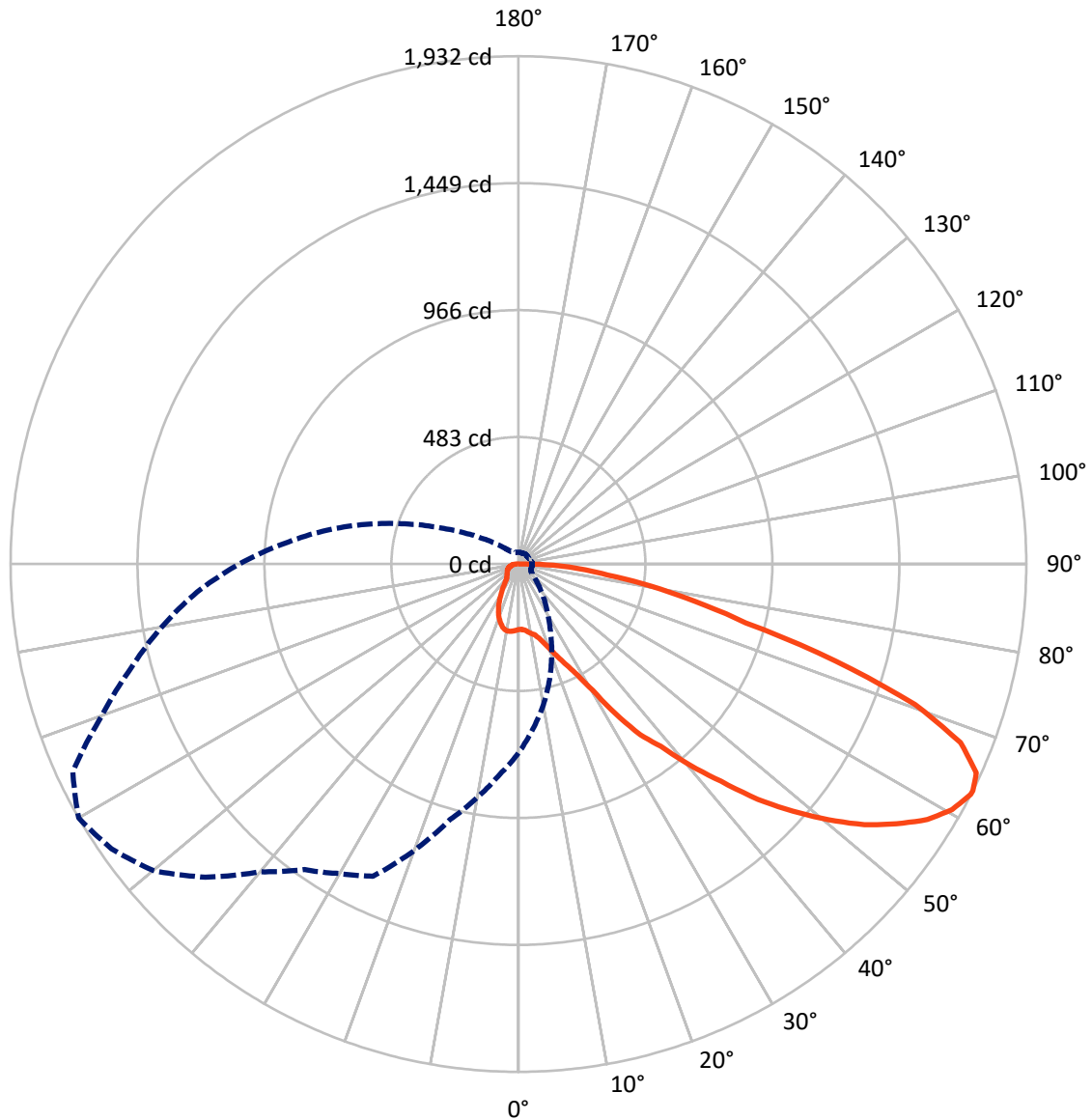
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.2 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
House Side	Lumens	425.1	0.0	425.1
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	1605.7	0.0	1605.7
	% Fixture	79.1	0.0	79.1
Total	Lumens	2030.8	0.0	2030.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.5	1.2
10°-20°	76.5	3.8
20°-30°	135.2	6.7
30°-40°	213.4	10.5
40°-50°	313.9	15.5
50°-60°	413.5	20.4
60°-70°	460.8	22.7
70°-80°	302.8	14.9
80°-90°	90.3	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°	2030.8	100.0
0°-180°	2030.8	100.0



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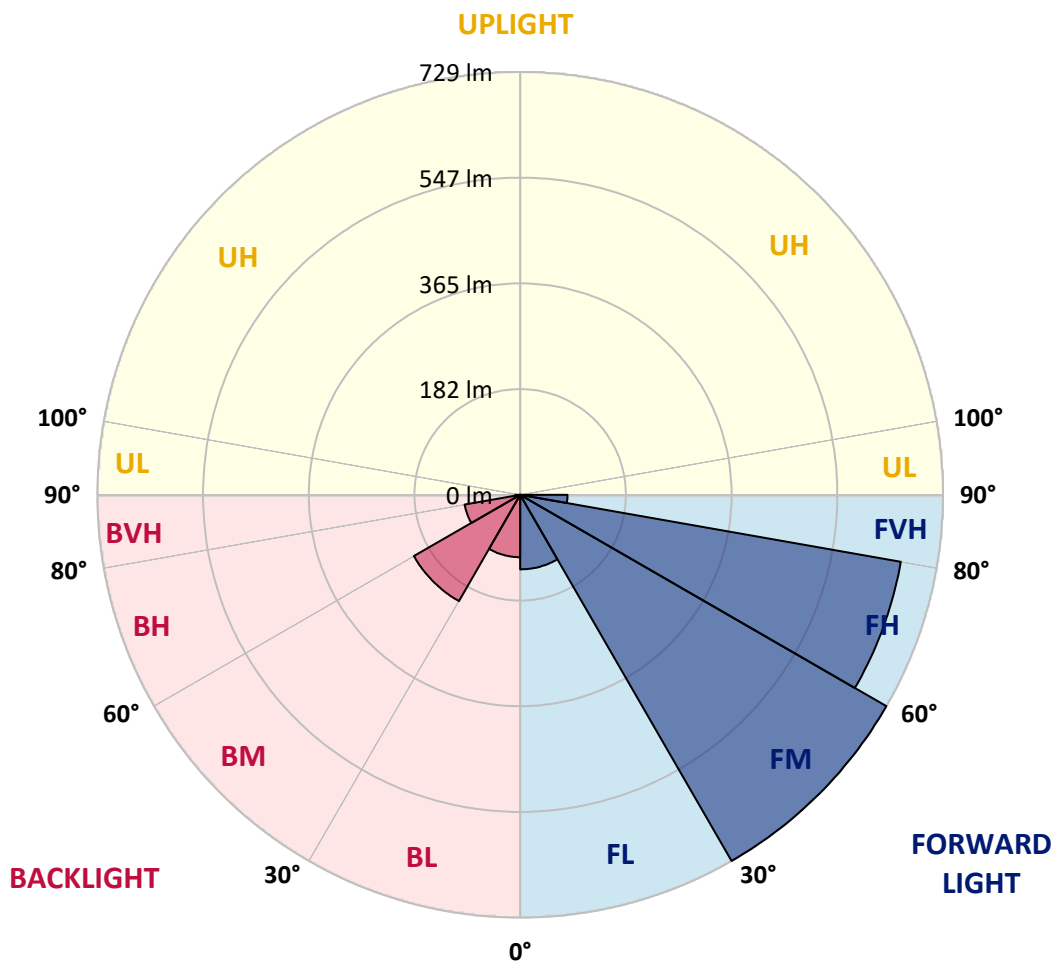
CATALOG NUMBER: LDRL-SLR-F01-E-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	128.5	6.3			
FM	(30°-60°)	729.1	35.9			
FH	(60°-80°)	666.5	32.8			G1/1800
FVH	(80°-90°)	81.6	4.0			G1/100
BL	(0°-30°)	107.6	5.3	B0/110		
BM	(30°-60°)	211.7	10.4	B0/220		
BH	(60°-80°)	97.2	4.8	B0/110		G0/110
BVH	(80°-90°)	8.7	0.4			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4
2.5°	249.1	249.6	249.6	249.1	249.6	249.4	249.4	249.9	250.0	250.8	250.3
5°	247.9	248.1	248.2	247.9	248.1	248.1	248.4	248.8	249.0	249.9	249.4
7.5°	246.6	246.9	246.3	246.4	246.9	247.5	247.5	248.1	249.1	249.6	249.4
10°	247.3	247.0	246.6	246.4	246.7	246.9	247.2	248.2	249.1	249.6	250.3
12.5°	253.2	252.3	251.8	251.7	251.8	251.5	252.6	252.9	253.2	253.8	253.5
15°	264.4	263.1	262.4	261.6	263.3	262.5	262.5	261.6	260.1	257.9	255.0
17.5°	279.9	278.5	277.9	277.6	277.8	276.4	273.7	269.3	264.0	258.0	252.4
20°	302.2	304.3	303.4	299.3	297.8	291.8	283.2	274.2	265.0	255.3	246.1
22.5°	340.8	339.6	335.5	325.4	316.4	302.8	287.4	272.8	259.2	245.2	233.1
25°	385.6	375.5	364.0	344.1	323.3	301.0	278.8	261.5	243.4	228.0	213.5
27.5°	440.5	418.6	389.4	356.9	325.9	296.2	269.9	247.0	226.3	209.9	193.8
30°	494.5	458.0	417.3	374.3	332.4	292.2	257.6	231.0	207.2	186.1	169.8
32.5°	531.9	487.7	437.0	383.9	333.0	285.9	244.0	212.3	185.5	164.2	144.6
35°	562.6	507.4	444.0	382.4	323.3	271.1	224.5	189.4	160.9	138.9	121.7
37.5°	583.7	517.5	443.5	373.7	306.1	247.6	202.2	166.5	139.9	119.4	103.6
40°	598.5	520.7	437.6	358.8	286.4	224.8	178.4	145.8	122.6	106.6	95.2
42.5°	605.6	518.6	428.9	344.6	266.8	206.4	160.4	131.9	113.1	101.0	92.6
45°	608.6	513.5	419.1	330.7	250.8	190.6	151.3	127.7	112.9	102.5	93.3
47.5°	607.9	507.9	410.3	319.2	241.3	186.4	153.1	133.5	118.5	105.6	93.8
50°	605.8	502.8	404.7	315.0	241.1	192.7	163.2	143.1	125.0	108.3	93.3
52.5°	605.6	502.3	407.8	320.0	249.9	207.0	178.4	154.3	131.3	111.3	93.5
55°	609.2	510.5	420.6	333.4	271.0	227.1	195.6	166.2	138.4	113.4	93.0
57.5°	623.9	530.8	444.9	363.4	298.1	251.5	212.2	175.1	141.1	112.8	90.9
60°	656.0	566.6	482.3	405.8	333.0	273.9	222.0	178.1	139.9	109.2	86.4
62.5°	706.0	618.3	533.5	447.4	363.9	287.3	224.2	175.7	135.1	103.1	80.8
63°	718.9	630.2	543.9	456.0	369.2	288.6	224.1	174.8	133.8	101.6	79.5
65°	772.4	681.3	585.7	484.4	383.3	291.3	220.6	169.0	127.7	94.6	73.3
67.5°	852.9	737.7	627.2	510.8	391.2	286.5	209.8	154.9	112.2	82.2	64.1
70°	906.6	775.1	651.9	519.4	382.0	264.5	184.9	129.8	91.7	67.7	54.7
72.5°	908.0	741.6	618.4	474.7	329.8	218.2	144.8	98.2	71.3	55.0	47.2
75°	811.0	626.7	505.5	389.8	253.8	154.3	101.8	71.6	54.7	45.4	40.9
77.5°	602.9	457.2	364.8	262.2	164.8	100.0	70.9	53.1	43.4	37.5	34.2
80°	374.1	285.8	221.4	156.8	98.8	66.5	51.9	42.2	36.5	31.4	28.7
82.5°	225.6	160.0	125.0	94.7	63.2	48.0	40.0	35.6	30.9	26.4	24.3
85°	165.3	114.5	83.8	58.5	39.1	31.7	28.0	27.1	24.0	20.4	19.2
87.5°	52.0	54.6	56.7	34.5	18.8	14.3	12.2	14.3	13.7	9.7	10.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4
2.5°	251.1	251.7	251.2	251.2	250.9	250.8	251.8	251.5	251.8	251.7	252.0
5°	250.2	250.6	250.3	250.6	250.3	250.3	251.7	251.7	252.3	252.6	253.3
7.5°	250.5	250.6	250.5	250.9	250.6	250.3	251.1	251.5	252.6	253.5	254.2
10°	251.5	252.0	251.8	251.8	250.9	250.3	250.8	251.1	252.1	252.6	253.5
12.5°	254.1	253.5	252.3	251.5	249.4	248.2	247.6	247.3	248.1	248.7	249.1
15°	253.5	250.2	247.5	245.2	242.0	240.1	238.6	238.4	238.6	238.7	239.2
17.5°	247.3	242.8	237.4	234.5	230.9	228.8	227.7	227.0	226.8	227.1	227.9
20°	238.4	231.8	225.7	220.8	216.8	213.5	214.3	212.6	213.4	213.8	215.2
22.5°	224.8	215.6	208.7	202.7	198.0	194.5	194.5	193.0	193.3	194.7	196.5
25°	202.8	194.2	184.3	180.1	174.8	172.4	171.9	171.6	172.8	174.5	175.5
27.5°	182.9	171.2	161.4	155.8	150.2	150.8	147.8	149.6	150.9	152.3	153.5
30°	156.1	146.4	137.5	131.9	125.3	125.5	125.9	126.2	127.4	129.2	131.6
32.5°	130.3	119.9	111.6	105.6	101.6	100.4	98.8	101.5	103.0	104.8	107.2
35°	109.0	98.2	91.2	86.0	83.7	82.0	81.6	81.3	82.6	83.5	85.5
37.5°	93.8	86.4	81.3	77.5	75.4	73.6	73.1	72.8	72.7	72.4	73.6
40°	87.6	81.7	77.4	73.9	71.9	70.9	70.4	69.8	69.2	68.5	68.3
42.5°	85.8	79.5	74.3	70.9	69.4	69.2	69.2	68.9	68.3	67.3	66.5
45°	85.1	77.4	71.5	68.8	67.7	67.9	67.9	67.9	67.4	66.4	65.1
47.5°	83.7	74.8	68.8	66.5	66.0	66.4	66.7	66.7	66.4	65.4	64.1
50°	81.1	70.9	64.5	62.4	62.3	62.4	62.4	62.7	62.4	61.7	60.5
52.5°	79.2	67.9	61.4	59.7	59.7	59.6	59.4	59.4	59.3	58.7	57.8
55°	77.4	65.9	60.0	58.7	59.0	59.0	58.7	58.5	57.9	57.2	56.2
57.5°	74.8	63.8	58.7	57.8	58.1	57.9	57.8	57.6	57.0	56.1	54.9
60°	70.3	60.0	55.9	55.3	55.8	55.9	56.5	56.7	56.4	55.3	53.7
62.5°	65.3	55.3	52.3	51.9	52.3	52.8	53.2	52.9	52.9	51.9	50.4
63°	63.6	54.6	51.3	51.3	51.7	52.2	52.5	52.2	52.3	51.1	49.6
65°	59.9	51.9	49.3	49.5	49.9	50.2	50.4	50.4	50.2	49.3	48.0
67.5°	53.5	48.0	46.4	47.2	47.8	48.0	48.0	48.3	48.0	47.4	46.1
70°	47.8	44.2	43.1	44.0	44.3	44.5	44.5	44.5	44.2	43.6	42.5
72.5°	43.4	41.6	41.5	41.3	41.5	41.0	41.0	40.7	40.0	39.5	38.6
75°	38.6	37.7	37.9	37.7	37.4	37.2	36.5	36.2	35.3	34.7	33.5
77.5°	33.2	33.3	33.2	33.3	33.6	33.8	32.7	32.0	31.2	30.6	30.0
80°	27.6	27.9	27.6	27.9	28.0	28.0	27.0	25.8	25.2	25.6	25.8
82.5°	24.6	24.6	23.4	23.7	23.4	22.9	22.2	21.7	21.3	21.0	21.7
85°	19.5	19.6	19.9	19.6	19.0	18.5	17.8	17.2	16.7	17.2	18.2
87.5°	11.6	12.5	12.1	12.1	11.9	11.9	11.3	11.0	10.6	12.4	13.3
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4
2.5°	251.8	252.3	252.4	252.3	252.4	252.7	251.5	252.7	252.9	252.0	252.3
5°	253.9	254.7	255.8	255.8	256.5	257.0	256.4	258.0	258.3	258.2	258.9
7.5°	255.5	256.5	257.9	258.6	260.0	260.6	261.0	262.5	262.8	263.4	264.0
10°	255.3	256.8	258.0	260.1	261.8	263.0	263.9	265.6	266.2	267.1	267.5
12.5°	250.9	252.6	254.8	257.9	260.9	262.8	265.3	267.7	268.6	269.8	270.5
15°	241.1	242.5	245.7	249.6	253.6	258.6	262.1	265.9	267.5	268.7	269.8
17.5°	228.3	229.5	232.4	235.8	241.3	246.1	251.4	257.1	260.0	261.3	261.8
20°	216.4	218.2	219.0	223.0	224.8	229.7	234.2	240.5	244.1	246.6	248.1
22.5°	197.7	198.6	202.5	204.2	205.5	208.6	214.1	219.7	224.5	228.5	229.7
25°	177.0	179.5	181.6	182.9	186.1	186.2	190.8	194.7	200.7	204.5	207.5
27.5°	154.3	157.9	159.1	160.0	162.4	165.3	166.9	170.9	174.3	178.7	184.1
30°	131.3	134.8	137.2	138.6	140.8	143.6	144.8	147.3	151.9	156.7	160.9
32.5°	109.9	113.6	114.8	119.1	119.7	122.3	123.2	127.3	129.8	133.9	138.9
35°	89.0	92.7	96.4	98.8	101.5	101.3	103.7	107.5	109.8	114.0	117.3
37.5°	74.6	76.9	79.5	82.2	85.2	87.5	89.7	91.4	93.2	96.1	99.1
40°	68.3	68.9	70.0	71.6	73.7	75.4	77.1	78.4	79.8	82.0	84.0
42.5°	65.7	65.3	65.3	65.0	65.7	66.7	68.0	68.5	70.6	71.9	72.7
45°	63.9	62.9	62.1	61.2	60.9	61.2	62.0	63.0	64.4	64.8	64.8
47.5°	62.9	61.2	60.0	58.7	57.9	57.9	58.4	59.1	59.9	60.0	59.9
50°	59.3	57.6	56.1	54.9	54.3	54.3	54.4	55.5	55.6	55.3	55.5
52.5°	56.5	54.9	53.4	52.3	51.6	51.7	52.2	52.6	53.1	52.8	52.5
55°	54.9	52.9	51.6	50.4	49.5	49.8	50.2	50.8	51.6	51.1	50.7
57.5°	53.4	51.7	50.1	48.9	47.8	48.1	48.6	49.5	50.4	49.5	48.9
60°	52.0	50.4	48.7	47.5	46.3	46.6	47.2	48.1	48.9	47.7	46.9
62.5°	48.7	47.2	46.0	45.4	44.6	45.1	45.5	46.6	46.3	45.1	44.2
63°	48.1	46.6	45.5	44.9	44.3	44.9	45.1	46.1	45.7	44.5	43.7
65°	46.3	45.1	44.0	43.4	42.8	43.1	43.1	43.6	43.0	42.1	41.5
67.5°	44.6	43.3	42.2	41.0	40.4	40.1	40.0	39.8	39.4	38.9	38.8
70°	41.0	40.1	39.2	38.2	37.2	36.6	36.3	36.0	35.7	35.6	35.4
72.5°	37.1	36.3	35.4	34.8	34.1	33.6	32.9	32.7	32.4	32.1	32.0
75°	32.9	32.0	31.7	31.1	30.6	30.3	29.7	29.6	29.3	28.8	28.7
77.5°	29.1	28.8	28.4	28.2	27.4	27.0	26.7	26.5	26.2	25.9	25.6
80°	25.9	25.8	25.5	25.3	24.9	24.3	24.0	24.1	23.7	23.5	23.1
82.5°	23.4	23.5	23.5	23.1	22.6	21.9	21.6	22.0	21.7	21.1	20.5
85°	19.9	19.8	19.9	19.8	18.8	18.1	17.8	18.1	17.9	17.0	16.9
87.5°	14.2	14.0	13.7	14.6	13.4	10.9	11.2	12.7	12.2	11.8	11.5
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):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4
2.5°	252.9	252.4	252.7	252.9	252.4	253.5	252.4	252.6	252.9	252.0	251.8
5°	259.5	259.5	260.7	260.9	260.7	262.1	261.9	262.1	261.8	261.6	261.0
7.5°	265.0	265.6	266.5	267.8	268.3	269.3	269.6	269.8	270.4	271.0	270.7
10°	268.9	270.5	271.3	272.6	274.0	274.8	275.5	276.7	277.2	277.6	277.0
12.5°	271.6	273.5	274.8	276.4	278.1	279.3	280.6	282.1	283.7	284.1	283.4
15°	270.2	272.5	274.3	276.1	278.7	280.9	283.5	286.2	288.2	288.9	288.0
17.5°	261.8	264.0	266.8	269.5	272.2	276.4	280.0	284.6	287.7	290.0	290.3
20°	250.2	251.5	255.5	258.2	262.5	267.5	272.9	278.2	281.8	285.9	288.3
22.5°	233.0	235.7	240.1	244.7	249.1	255.6	261.3	268.3	274.5	280.0	285.3
25°	212.0	215.8	220.9	227.4	233.1	240.1	248.4	256.1	266.5	275.2	286.5
27.5°	189.4	196.3	203.4	210.2	216.5	224.4	233.0	241.6	253.5	267.5	282.3
30°	168.0	173.7	182.6	190.5	197.8	207.5	216.4	225.9	237.2	253.8	270.5
32.5°	145.7	150.3	157.3	166.9	175.5	186.8	194.7	206.0	219.1	236.6	255.6
35°	122.6	129.1	134.7	141.3	147.8	159.1	170.9	183.4	198.5	217.2	238.0
37.5°	102.2	106.3	109.0	115.8	121.5	131.2	144.9	160.0	176.6	195.6	217.9
40°	85.4	87.9	90.9	95.5	100.3	109.0	121.7	138.6	155.9	174.9	197.2
42.5°	73.7	75.4	75.7	79.2	83.7	92.3	102.4	117.9	137.1	157.0	179.3
45°	65.7	65.7	65.6	67.1	70.7	78.1	87.3	101.2	119.4	140.2	163.5
47.5°	60.2	60.6	60.5	61.1	63.5	68.9	77.2	89.0	105.6	125.9	149.3
50°	55.9	56.5	56.7	56.9	57.8	62.3	69.4	78.9	93.6	113.1	136.6
52.5°	52.6	52.8	52.8	52.6	52.9	55.5	61.4	70.1	83.8	101.3	124.0
55°	50.8	51.0	51.0	51.0	51.0	52.6	56.9	63.9	74.9	91.4	111.9
57.5°	48.7	48.7	49.0	49.0	49.0	49.6	52.6	58.5	67.0	80.1	98.3
60°	46.9	47.4	48.0	48.1	48.0	48.0	49.5	53.4	59.0	68.5	83.8
62.5°	44.2	44.8	45.5	45.8	46.0	45.7	46.4	48.1	51.4	56.4	66.8
63°	43.7	44.3	44.9	45.2	45.4	45.1	45.7	47.0	49.8	53.8	63.2
65°	41.8	42.5	42.7	42.8	42.7	42.5	42.4	42.4	43.1	44.6	49.6
67.5°	39.1	39.5	39.5	39.8	39.1	38.8	38.5	38.2	37.7	37.9	39.7
70°	35.9	36.2	36.0	35.9	35.6	35.1	34.8	34.4	33.5	33.2	34.1
72.5°	32.3	32.6	32.6	32.6	32.0	31.7	31.4	31.1	30.8	31.1	31.4
75°	29.0	29.0	29.3	29.1	28.7	28.4	28.2	28.0	28.0	28.0	27.9
77.5°	25.8	25.6	25.6	25.2	24.9	24.7	25.0	25.2	25.0	24.7	24.6
80°	23.1	22.3	21.6	21.0	20.8	21.1	21.4	22.3	21.9	21.9	21.6
82.5°	19.6	17.9	16.9	17.0	16.6	16.7	17.0	18.1	17.8	17.9	18.5
85°	15.7	14.2	12.5	12.8	12.8	12.5	13.3	13.6	13.9	14.6	14.0
87.5°	11.0	9.7	8.0	6.9	7.2	7.5	7.8	7.5	6.6	6.9	6.8
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4
2.5°	251.5	251.7	251.7	250.6	250.3	250.6	250.5	250.5	249.6	249.7	249.4
5°	260.7	261.0	260.1	259.4	258.3	258.2	258.0	257.4	256.8	255.6	255.0
7.5°	270.5	269.2	268.9	267.5	267.1	265.9	265.0	264.0	263.3	262.7	262.2
10°	276.7	275.7	275.4	272.9	272.2	270.7	269.8	268.7	267.8	266.9	266.8
12.5°	282.3	280.5	279.4	276.1	274.6	272.9	272.2	271.3	271.0	270.8	271.4
15°	286.7	284.1	282.1	279.1	277.9	277.0	277.2	276.7	278.5	279.6	281.5
17.5°	289.5	288.5	288.0	285.8	286.5	286.5	288.6	289.7	293.0	295.7	298.4
20°	291.0	293.0	296.8	297.5	299.3	301.3	304.5	306.3	309.7	313.7	317.4
22.5°	292.4	300.7	308.4	314.1	318.2	322.7	325.0	328.7	331.2	334.0	339.7
25°	299.9	313.8	327.4	334.8	344.4	350.9	356.0	359.8	364.0	366.4	372.9
27.5°	297.8	315.5	333.6	347.1	362.2	374.4	385.3	392.5	398.0	406.7	412.1
30°	288.2	308.7	330.6	349.9	371.0	390.9	409.7	426.6	441.1	452.8	460.8
32.5°	274.5	298.0	323.6	347.4	374.4	401.0	428.1	453.9	478.5	497.9	510.2
35°	259.1	284.4	312.8	341.0	373.4	408.1	444.7	479.4	515.0	546.0	570.5
37.5°	240.4	267.8	298.9	331.6	368.9	410.5	456.6	503.8	549.2	596.3	630.6
40°	220.8	247.6	279.9	317.3	360.3	409.3	465.8	527.0	592.8	653.4	705.7
42.5°	204.0	230.3	264.0	301.0	347.3	404.7	472.0	547.9	628.8	707.4	776.9
45°	187.6	215.6	249.7	288.8	339.3	402.9	480.0	565.9	658.4	751.6	840.3
47.5°	174.6	202.4	236.8	278.7	332.8	401.9	487.5	582.8	682.5	784.5	889.6
50°	162.3	188.8	222.3	266.5	326.0	400.2	492.1	596.3	701.4	810.2	924.5
52.5°	149.6	177.2	209.8	252.6	317.1	396.9	493.4	606.8	720.8	835.0	957.3
55°	136.8	164.4	196.9	241.3	305.1	390.4	492.4	614.5	741.2	861.1	987.1
57.5°	121.1	148.2	182.3	227.0	289.5	377.4	487.2	617.8	753.8	885.5	1017.1
60°	103.4	129.1	161.4	206.9	270.5	358.8	475.8	613.1	759.6	901.6	1049.0
62.5°	81.3	103.6	133.3	178.5	242.9	331.8	450.7	592.5	745.7	897.6	1062.7
63°	76.3	97.9	128.5	171.0	234.8	322.4	443.3	585.4	739.5	893.8	1061.0
65°	58.2	74.2	99.5	137.5	198.5	279.3	404.4	545.3	700.6	856.2	1034.9
67.5°	43.0	51.3	66.8	92.3	139.6	217.3	331.5	470.9	618.0	764.2	946.1
70°	35.6	38.8	46.0	59.1	86.4	144.2	234.2	358.4	496.7	622.6	786.9
72.5°	31.8	34.1	37.4	43.3	54.6	84.6	152.3	232.7	345.9	454.8	593.5
75°	28.5	30.0	32.7	36.2	41.3	52.9	80.5	138.0	211.4	306.4	407.2
77.5°	25.0	26.5	29.3	32.0	35.3	40.3	49.9	78.6	126.5	178.8	249.9
80°	21.7	22.5	24.7	28.7	31.1	35.1	38.3	49.2	68.9	93.6	133.2
82.5°	17.9	18.1	19.6	22.6	25.6	27.1	28.0	30.9	39.7	49.5	65.3
85°	12.8	12.2	13.1	14.3	16.7	15.4	16.4	17.3	21.1	25.5	46.7
87.5°	5.7	4.5	5.3	5.9	5.3	3.6	5.3	4.4	5.4	10.7	12.1
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°	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	249.4	0°
2.5°	249.7	248.8	248.8	248.7	248.8	248.5	247.9	247.9	248.4	248.2	248.2	2.5°
5°	255.0	253.8	253.5	253.3	253.3	252.6	251.7	251.2	251.1	250.5	250.0	5°
7.5°	261.9	261.2	261.6	260.7	260.4	260.3	259.1	258.2	256.8	256.2	253.9	7.5°
10°	267.7	267.2	268.4	268.3	268.4	268.4	266.8	265.9	263.9	262.8	260.0	10°
12.5°	272.6	272.9	275.2	275.2	275.7	276.3	275.4	273.4	272.6	271.6	268.6	12.5°
15°	285.3	286.5	288.2	290.9	291.6	291.8	292.5	290.9	288.9	286.2	282.6	15°
17.5°	302.5	304.9	310.5	314.4	315.2	315.9	315.5	315.2	311.6	309.3	305.5	17.5°
20°	324.1	329.9	337.8	343.2	345.6	345.9	348.9	346.8	343.5	339.0	333.6	20°
22.5°	348.2	358.0	367.9	375.9	380.6	382.7	385.9	382.9	378.5	375.8	368.6	22.5°
25°	381.2	391.9	403.4	409.7	421.6	425.1	426.9	426.0	421.5	423.4	416.8	25°
27.5°	426.5	435.7	451.8	459.8	470.9	477.4	476.1	483.6	485.0	489.6	490.4	27.5°
30°	475.8	491.0	512.7	528.9	545.9	556.9	565.6	572.3	580.0	592.9	600.8	30°
32.5°	529.0	551.0	578.8	613.0	649.2	678.7	712.1	717.8	735.0	730.0	726.7	32.5°
35°	588.3	616.0	651.6	696.5	749.2	798.0	830.1	846.3	853.1	856.8	833.9	35°
37.5°	667.6	705.1	744.8	793.8	834.1	879.8	916.7	956.8	975.2	966.5	922.6	37.5°
40°	755.5	790.6	844.3	884.4	931.9	1007.2	1057.2	1105.5	1120.6	1091.5	1022.7	40°
42.5°	843.7	892.0	950.2	1007.2	1061.8	1129.9	1196.3	1243.9	1260.5	1210.8	1129.2	42.5°
45°	922.3	984.1	1052.6	1111.1	1187.4	1276.5	1357.8	1396.1	1393.1	1313.2	1221.3	45°
47.5°	990.7	1071.0	1148.2	1227.0	1304.0	1404.5	1485.1	1529.1	1497.9	1413.9	1309.8	47.5°
50°	1047.3	1144.3	1237.5	1328.1	1422.5	1529.4	1607.1	1647.8	1600.3	1494.0	1377.7	50°
52.5°	1090.3	1210.5	1317.8	1419.2	1532.0	1647.5	1716.5	1741.1	1667.1	1555.9	1428.5	52.5°
55°	1130.8	1266.7	1385.5	1500.6	1641.0	1744.6	1809.3	1804.8	1709.2	1582.9	1460.3	55°
57.5°	1161.5	1314.7	1441.2	1572.2	1723.5	1834.2	1871.6	1841.7	1726.6	1590.9	1469.5	57.5°
60°	1200.1	1352.1	1490.6	1636.9	1801.9	1895.5	1900.5	1847.0	1721.7	1575.8	1456.6	60°
62.5°	1224.8	1375.4	1522.2	1681.3	1861.6	1930.1	1894.5	1824.2	1693.0	1538.6	1426.9	62.5°
63°	1227.2	1377.7	1524.7	1685.6	1870.1	1931.6	1888.9	1814.0	1684.6	1528.3	1419.0	63°
65°	1216.3	1371.2	1513.0	1677.8	1872.2	1913.8	1848.0	1771.9	1638.0	1476.0	1372.9	65°
67.5°	1140.5	1301.5	1436.8	1591.4	1790.7	1813.8	1747.9	1665.1	1539.4	1363.2	1272.0	67.5°
70°	1004.6	1157.7	1253.6	1397.1	1572.5	1600.1	1541.2	1477.1	1365.3	1218.2	1142.5	70°
72.5°	809.3	959.7	1017.3	1127.2	1266.6	1260.5	1219.1	1211.1	1152.3	1028.7	983.2	72.5°
75°	605.0	748.1	772.4	817.2	895.0	893.0	902.7	937.1	966.5	893.5	835.1	75°
77.5°	399.0	541.4	556.4	608.6	630.2	689.3	758.7	845.1	887.9	858.0	786.4	77.5°
80°	220.8	370.4	367.3	387.7	425.9	511.8	616.9	745.2	830.9	809.5	731.1	80°
82.5°	114.8	234.0	230.6	234.2	269.6	341.9	421.8	526.7	615.3	617.2	590.8	82.5°
85°	85.4	168.0	177.9	186.1	209.6	234.8	249.4	283.0	331.6	376.8	393.0	85°
87.5°	31.4	100.9	125.6	135.0	135.6	132.4	107.8	118.7	108.0	127.7	178.4	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°
249.4	249.4	249.4	249.4	249.4	249.4	249.4
248.5	248.5	248.4	248.7	248.8	249.3	249.1
249.6	249.1	248.7	248.4	248.1	248.2	247.9
252.3	250.8	249.6	248.5	247.6	247.5	246.6
258.3	255.6	253.3	251.7	249.9	249.0	247.3
266.0	263.0	260.1	257.7	255.6	254.4	253.2
279.4	275.1	271.6	269.0	266.9	265.6	264.4
299.3	293.9	288.6	283.7	283.0	279.9	279.9
326.8	319.4	312.6	308.4	306.4	302.2	302.2
364.8	357.5	347.4	342.3	342.8	339.1	340.8
413.9	407.9	397.5	395.4	395.4	391.5	385.6
487.7	485.6	474.1	477.0	470.9	456.3	440.5
597.2	597.2	575.0	559.0	545.1	522.4	494.5
706.8	692.5	658.5	631.4	602.6	567.8	531.9
799.4	761.2	726.8	693.7	650.4	613.0	562.6
877.5	841.3	801.9	751.4	700.6	648.4	583.7
974.3	930.3	871.2	807.7	745.2	673.5	598.5
1062.8	1007.6	933.0	852.6	773.1	693.1	605.6
1146.1	1074.9	982.8	886.2	795.8	705.1	608.6
1224.5	1129.0	1021.8	910.2	811.3	711.6	607.9
1276.2	1168.7	1046.4	924.7	820.6	713.9	605.8
1308.6	1193.0	1060.9	932.7	825.3	714.3	605.6
1326.9	1206.7	1068.7	938.3	830.4	717.0	609.2
1341.1	1217.5	1077.5	947.8	842.7	729.7	623.9
1354.5	1246.0	1100.2	965.3	863.9	753.4	656.0
1360.1	1300.2	1146.5	997.5	893.6	791.4	706.0
1359.6	1310.4	1159.9	1006.4	901.5	801.5	718.9
1343.2	1343.0	1221.0	1049.0	938.0	848.2	772.4
1294.5	1359.3	1288.6	1105.1	994.7	925.3	852.9
1217.4	1339.5	1297.8	1119.8	1034.9	996.0	906.6
1084.7	1245.1	1211.7	1056.8	1021.2	1009.9	908.0
877.3	1001.0	986.7	902.8	916.0	939.2	811.0
706.8	702.9	700.8	670.3	726.1	773.3	602.9
590.4	486.3	451.6	439.9	531.9	568.1	374.1
551.9	436.9	350.5	335.7	398.6	417.9	225.6
421.8	424.2	367.2	314.7	310.0	283.8	165.3
206.4	209.9	221.8	202.5	173.7	146.4	52.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)