

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: P146025

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146025
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
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (7) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2223.5 lumens
Efficiency: N/A
Efficacy: 85.8 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 - G1

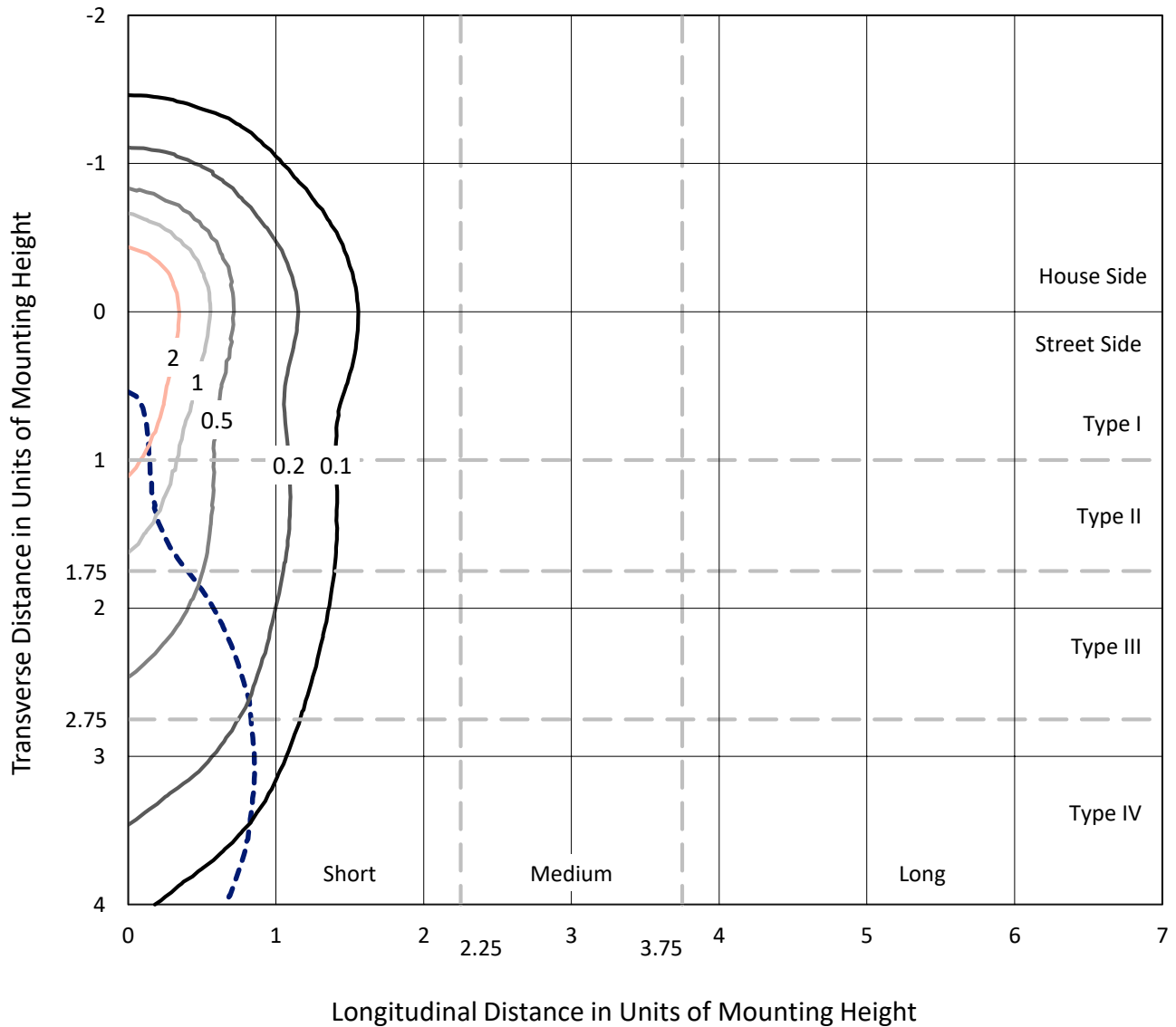
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

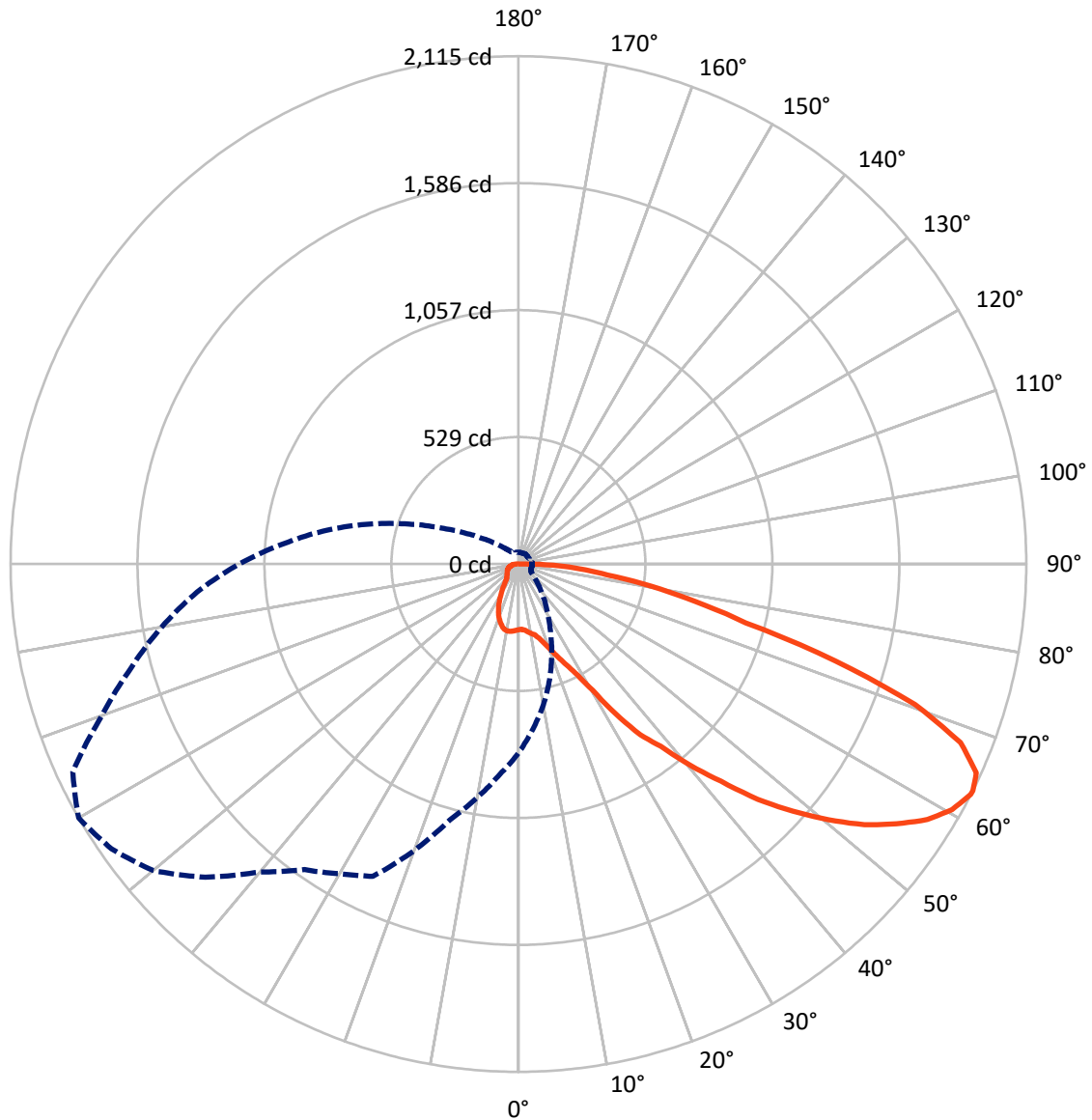
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.5 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	465.4	0.0	465.4
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	1758.1	0.0	1758.1
	% Fixture	79.1	0.0	79.1
Total	Lumens	2223.5	0.0	2223.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.8	1.2
10°-20°	83.7	3.8
20°-30°	148.0	6.7
30°-40°	233.7	10.5
40°-50°	343.7	15.5
50°-60°	452.7	20.4
60°-70°	504.6	22.7
70°-80°	331.5	14.9
80°-90°	98.9	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°	2223.5	100.0
0°-180°	2223.5	100.0

Coefficient of Utilization



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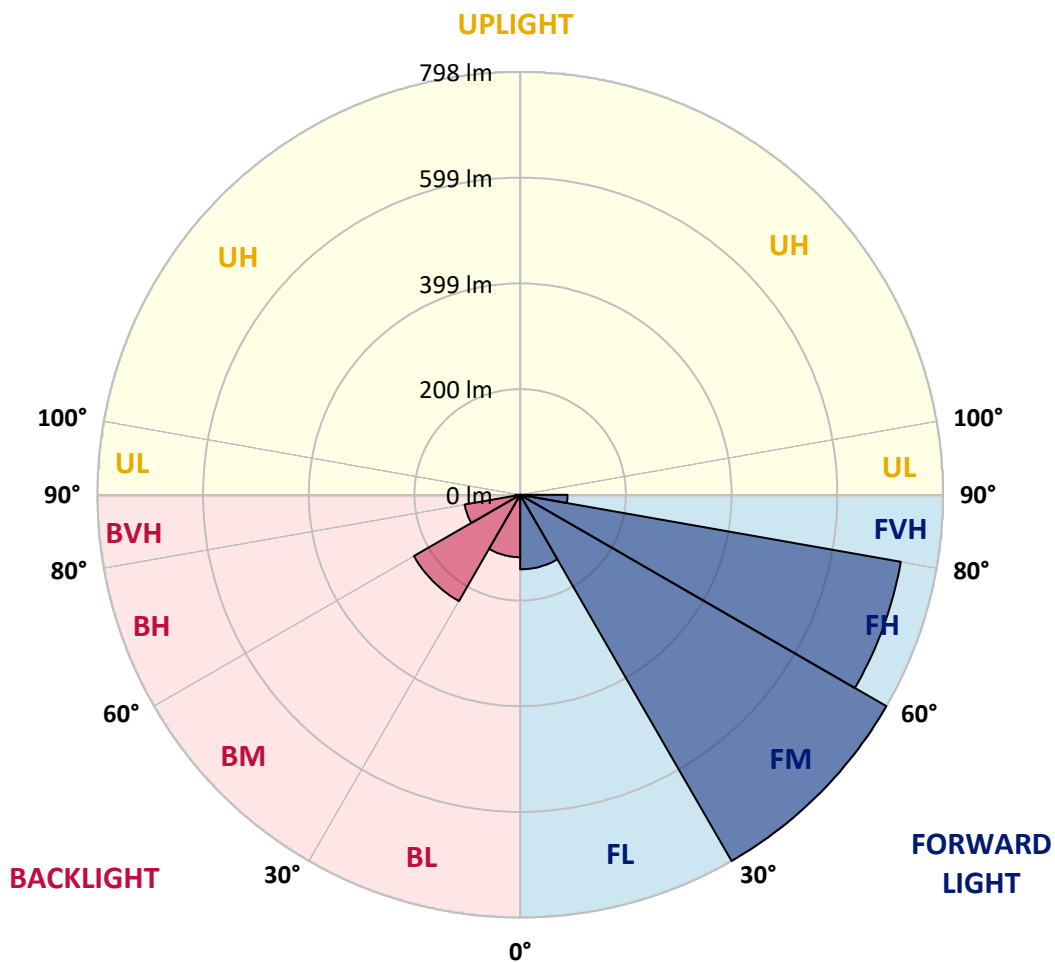
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	140.7	6.3			
FM	(30°-60°)	798.3	35.9			
FH	(60°-80°)	729.7	32.8			G1/1800
FVH	(80°-90°)	89.3	4.0			G1/100
BL	(0°-30°)	117.8	5.3	B1/500		
BM	(30°-60°)	231.7	10.4	B1/1000		
BH	(60°-80°)	106.4	4.8	B0/110		G0/110
BVH	(80°-90°)	9.5	0.4			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	273.1	273.1	273.1	273.1	273.1	273.1	273.1	273.1	273.1	273.1	273.1
2.5°	272.8	273.2	273.2	272.8	273.2	273.1	273.1	273.6	273.7	274.6	274.1
5°	271.4	271.6	271.8	271.4	271.6	271.6	271.9	272.4	272.6	273.6	273.1
7.5°	269.9	270.3	269.6	269.8	270.3	270.9	270.9	271.6	272.8	273.2	273.1
10°	270.8	270.4	269.9	269.8	270.1	270.3	270.6	271.8	272.8	273.2	274.1
12.5°	277.2	276.2	275.7	275.6	275.7	275.4	276.6	276.9	277.2	277.9	277.5
15°	289.4	288.1	287.3	286.5	288.3	287.4	287.4	286.5	284.8	282.3	279.2
17.5°	306.4	304.9	304.3	304.0	304.1	302.6	299.7	294.9	289.1	282.5	276.4
20°	330.9	333.2	332.2	327.7	326.1	319.5	310.1	300.2	290.1	279.5	269.5
22.5°	373.1	371.8	367.4	356.3	346.4	331.5	314.7	298.7	283.8	268.5	255.3
25°	422.2	411.1	398.6	376.8	354.0	329.5	305.3	286.3	266.5	249.6	233.8
27.5°	482.3	458.3	426.3	390.8	356.8	324.3	295.5	270.4	247.8	229.8	212.2
30°	541.4	501.4	456.8	409.8	363.9	320.0	282.0	252.9	226.9	203.7	185.9
32.5°	582.3	533.9	478.5	420.4	364.6	313.0	267.1	232.5	203.1	179.8	158.3
35°	616.0	555.6	486.1	418.7	354.0	296.9	245.8	207.4	176.2	152.1	133.2
37.5°	639.1	566.6	485.6	409.1	335.2	271.1	221.4	182.3	153.2	130.8	113.4
40°	655.3	570.1	479.1	392.8	313.5	246.2	195.3	159.7	134.2	116.7	104.2
42.5°	663.1	567.8	469.6	377.3	292.1	226.0	175.7	144.5	123.8	110.6	101.4
45°	666.4	562.2	458.8	362.1	274.6	208.7	165.6	139.8	123.7	112.3	102.2
47.5°	665.5	556.1	449.3	349.5	264.2	204.1	167.6	146.1	129.8	115.6	102.7
50°	663.2	550.5	443.1	344.9	264.0	211.0	178.6	156.7	136.9	118.5	102.2
52.5°	663.1	550.0	446.4	350.4	273.6	226.7	195.3	168.9	143.8	121.8	102.4
55°	667.0	558.9	460.5	365.0	296.7	248.6	214.1	181.9	151.6	124.2	101.9
57.5°	683.0	581.2	487.1	397.9	326.4	275.4	232.3	191.7	154.5	123.5	99.6
60°	718.2	620.3	528.0	444.3	364.6	299.8	243.0	195.0	153.2	119.5	94.6
62.5°	773.0	676.9	584.1	489.9	398.4	314.5	245.5	192.3	147.9	112.9	88.5
63°	787.1	690.0	595.5	499.3	404.2	316.0	245.3	191.4	146.4	111.3	87.0
65°	845.7	745.9	641.3	530.3	419.7	319.0	241.5	185.1	139.8	103.5	80.2
67.5°	933.8	807.7	686.7	559.2	428.3	313.7	229.7	169.6	122.8	90.0	70.2
70°	992.6	848.6	713.7	568.6	418.2	289.6	202.4	142.2	100.4	74.1	59.9
72.5°	994.1	812.0	677.1	519.8	361.1	238.9	158.5	107.5	78.1	60.3	51.7
75°	887.9	686.2	553.4	426.8	277.9	168.9	111.4	78.4	59.9	49.7	44.7
77.5°	660.1	500.6	399.4	287.1	180.5	109.5	77.6	58.1	47.6	41.1	37.5
80°	409.6	312.9	242.4	171.7	108.1	72.8	56.8	46.2	40.0	34.3	31.4
82.5°	247.0	175.2	136.9	103.7	69.2	52.5	43.8	39.0	33.8	28.9	26.6
85°	181.0	125.3	91.8	64.1	42.8	34.7	30.7	29.7	26.3	22.3	21.0
87.5°	57.0	59.8	62.1	37.8	20.6	15.7	13.4	15.7	15.0	10.6	11.6
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°	273.1	273.1	273.1	273.1	273.1	273.1	273.1	273.1	273.1	273.1	273.1
2.5°	274.9	275.6	275.1	275.1	274.7	274.6	275.7	275.4	275.7	275.6	275.9
5°	273.9	274.4	274.1	274.4	274.1	274.1	275.6	275.6	276.2	276.6	277.4
7.5°	274.2	274.4	274.2	274.7	274.4	274.1	274.9	275.4	276.6	277.5	278.4
10°	275.4	275.9	275.7	275.7	274.7	274.1	274.6	274.9	276.1	276.6	277.5
12.5°	278.2	277.5	276.2	275.4	273.1	271.8	271.1	270.8	271.6	272.3	272.8
15°	277.5	273.9	270.9	268.5	265.0	262.8	261.2	261.0	261.2	261.4	261.9
17.5°	270.8	265.8	259.9	256.7	252.8	250.5	249.3	248.5	248.3	248.6	249.5
20°	261.0	253.8	247.2	241.7	237.4	233.8	234.6	232.8	233.6	234.1	235.6
22.5°	246.2	236.1	228.5	221.9	216.8	213.0	213.0	211.3	211.7	213.2	215.1
25°	222.1	212.7	201.8	197.1	191.4	188.7	188.2	187.9	189.2	191.0	192.2
27.5°	200.3	187.4	176.7	170.6	164.4	165.1	161.8	163.8	165.3	166.8	168.1
30°	170.9	160.3	150.6	144.5	137.2	137.4	137.9	138.2	139.5	141.5	144.1
32.5°	142.7	131.3	122.2	115.6	111.3	110.0	108.1	111.1	112.8	114.7	117.4
35°	119.4	107.5	99.9	94.1	91.6	89.8	89.3	89.0	90.5	91.5	93.6
37.5°	102.7	94.6	89.0	84.9	82.6	80.6	80.1	79.7	79.6	79.3	80.6
40°	95.9	89.5	84.7	80.9	78.8	77.6	77.1	76.4	75.8	75.0	74.8
42.5°	93.9	87.0	81.4	77.6	75.9	75.8	75.8	75.5	74.8	73.6	72.8
45°	93.1	84.7	78.3	75.3	74.1	74.3	74.3	74.3	73.8	72.6	71.3
47.5°	91.6	81.9	75.3	72.8	72.3	72.6	73.0	73.0	72.6	71.7	70.2
50°	88.8	77.6	70.7	68.4	68.2	68.4	68.4	68.7	68.4	67.5	66.2
52.5°	86.7	74.3	67.2	65.4	65.4	65.2	65.1	65.1	64.9	64.2	63.2
55°	84.7	72.2	65.7	64.2	64.6	64.6	64.2	64.1	63.4	62.6	61.6
57.5°	81.9	69.8	64.2	63.2	63.6	63.4	63.2	63.1	62.4	61.4	60.1
60°	76.9	65.7	61.3	60.6	61.1	61.3	61.9	62.1	61.7	60.6	58.8
62.5°	71.5	60.6	57.3	56.8	57.3	57.8	58.3	58.0	58.0	56.8	55.1
63°	69.7	59.8	56.1	56.1	56.6	57.1	57.5	57.1	57.3	56.0	54.3
65°	65.5	56.8	54.0	54.2	54.6	55.0	55.1	55.1	55.0	54.0	52.5
67.5°	58.6	52.5	50.9	51.7	52.3	52.5	52.5	52.8	52.5	51.8	50.5
70°	52.3	48.4	47.2	48.2	48.5	48.7	48.7	48.7	48.4	47.7	46.6
72.5°	47.6	45.6	45.4	45.2	45.4	44.9	44.9	44.6	43.8	43.3	42.3
75°	42.3	41.3	41.4	41.3	40.9	40.8	40.0	39.6	38.6	38.0	36.7
77.5°	36.3	36.5	36.3	36.5	36.8	37.0	35.8	35.0	34.2	33.5	32.9
80°	30.2	30.5	30.2	30.5	30.7	30.7	29.6	28.2	27.6	28.1	28.2
82.5°	26.9	26.9	25.6	25.9	25.6	25.1	24.3	23.8	23.3	22.9	23.8
85°	21.3	21.5	21.8	21.5	20.8	20.3	19.5	18.8	18.3	18.8	20.0
87.5°	12.7	13.7	13.2	13.2	13.0	13.0	12.4	12.1	11.6	13.5	14.5
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	273.1	273.1	273.1	273.1	273.1	273.1	273.1	273.1	273.1	273.1	273.1
2.5°	275.7	276.2	276.4	276.2	276.4	276.7	275.4	276.7	276.9	275.9	276.2
5°	278.0	278.9	280.0	280.0	280.8	281.3	280.7	282.5	282.8	282.7	283.5
7.5°	279.7	280.8	282.3	283.2	284.6	285.3	285.8	287.4	287.8	288.4	289.1
10°	279.5	281.2	282.5	284.8	286.6	287.9	288.9	290.7	291.4	292.4	292.9
12.5°	274.7	276.6	279.0	282.3	285.6	287.8	290.4	293.1	294.1	295.4	296.2
15°	264.0	265.5	269.0	273.2	277.7	283.2	287.0	291.1	292.9	294.2	295.4
17.5°	250.0	251.3	254.4	258.2	264.2	269.5	275.2	281.5	284.6	286.1	286.6
20°	236.9	238.9	239.7	244.2	246.2	251.5	256.4	263.3	267.3	269.9	271.6
22.5°	216.5	217.4	221.7	223.6	225.0	228.3	234.4	240.6	245.8	250.1	251.5
25°	193.8	196.5	198.8	200.3	203.7	203.9	208.9	213.2	219.8	223.9	227.2
27.5°	168.9	172.9	174.2	175.2	177.8	181.0	182.8	187.1	190.9	195.6	201.6
30°	143.8	147.6	150.2	151.7	154.2	157.2	158.5	161.3	166.3	171.5	176.2
32.5°	120.4	124.3	125.6	130.4	131.1	133.9	134.9	139.3	142.2	146.6	152.1
35°	97.4	101.5	105.5	108.1	111.1	111.0	113.6	117.7	120.2	124.8	128.5
37.5°	81.7	84.2	87.0	90.0	93.3	95.8	98.2	100.1	102.0	105.2	108.5
40°	74.8	75.5	76.6	78.4	80.7	82.6	84.4	85.9	87.3	89.8	92.0
42.5°	72.0	71.5	71.5	71.2	72.0	73.0	74.5	75.0	77.3	78.8	79.6
45°	70.0	68.8	68.0	67.0	66.7	67.0	67.9	69.0	70.5	71.0	71.0
47.5°	68.8	67.0	65.7	64.2	63.4	63.4	63.9	64.7	65.5	65.7	65.5
50°	64.9	63.1	61.4	60.1	59.4	59.4	59.6	60.8	60.9	60.6	60.8
52.5°	61.9	60.1	58.4	57.3	56.5	56.6	57.1	57.6	58.1	57.8	57.5
55°	60.1	58.0	56.5	55.1	54.2	54.5	55.0	55.6	56.5	56.0	55.5
57.5°	58.4	56.6	54.8	53.5	52.3	52.7	53.2	54.2	55.1	54.2	53.5
60°	57.0	55.1	53.3	52.0	50.7	51.0	51.7	52.7	53.5	52.2	51.3
62.5°	53.3	51.7	50.4	49.7	48.9	49.4	49.9	51.0	50.7	49.4	48.4
63°	52.7	51.0	49.9	49.2	48.5	49.2	49.4	50.5	50.0	48.7	47.9
65°	50.7	49.4	48.2	47.6	46.9	47.2	47.2	47.7	47.1	46.1	45.4
67.5°	48.9	47.4	46.2	44.9	44.2	43.9	43.8	43.6	43.1	42.6	42.4
70°	44.9	43.9	42.9	41.8	40.8	40.1	39.8	39.5	39.1	39.0	38.8
72.5°	40.6	39.8	38.8	38.1	37.3	36.8	36.0	35.8	35.5	35.2	35.0
75°	36.0	35.0	34.7	34.0	33.5	33.2	32.5	32.4	32.0	31.5	31.4
77.5°	31.9	31.5	31.0	30.9	30.0	29.6	29.2	29.1	28.7	28.4	28.1
80°	28.4	28.2	27.9	27.7	27.2	26.6	26.3	26.4	25.9	25.8	25.3
82.5°	25.6	25.8	25.8	25.3	24.8	23.9	23.6	24.1	23.8	23.1	22.5
85°	21.8	21.6	21.8	21.6	20.6	19.8	19.5	19.8	19.6	18.7	18.5
87.5°	15.5	15.4	15.0	16.0	14.7	11.9	12.2	13.9	13.4	12.9	12.5
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°	273.1	273.1	273.1	273.1	273.1	273.1	273.1	273.1	273.1	273.1	273.1
2.5°	276.9	276.4	276.7	276.9	276.4	277.5	276.4	276.6	276.9	275.9	275.7
5°	284.1	284.1	285.5	285.6	285.5	287.0	286.8	287.0	286.6	286.5	285.8
7.5°	290.1	290.7	291.7	293.2	293.7	294.9	295.2	295.4	296.0	296.7	296.4
10°	294.4	296.2	297.0	298.5	300.0	300.8	301.6	303.0	303.5	304.0	303.3
12.5°	297.4	299.5	300.8	302.6	304.5	305.8	307.3	308.9	310.6	311.1	310.2
15°	295.9	298.3	300.3	302.3	305.1	307.6	310.4	313.4	315.5	316.3	315.4
17.5°	286.6	289.1	292.1	295.0	298.0	302.6	306.6	311.6	315.0	317.5	317.8
20°	273.9	275.4	279.7	282.7	287.4	292.9	298.8	304.6	308.6	313.0	315.7
22.5°	255.1	258.1	262.8	268.0	272.8	279.9	286.1	293.7	300.5	306.6	312.4
25°	232.1	236.3	241.9	249.0	255.3	262.8	271.9	280.3	291.7	301.3	313.7
27.5°	207.4	215.0	222.7	230.2	237.1	245.7	255.1	264.5	277.5	292.9	309.1
30°	183.9	190.2	199.9	208.5	216.6	227.2	236.9	247.3	259.7	277.9	296.2
32.5°	159.5	164.6	172.2	182.8	192.2	204.6	213.2	225.5	239.9	259.0	279.9
35°	134.2	141.3	147.4	154.7	161.8	174.2	187.1	200.8	217.3	237.8	260.5
37.5°	111.9	116.4	119.4	126.8	133.1	143.6	158.7	175.2	193.3	214.1	238.6
40°	93.4	96.3	99.6	104.5	109.8	119.4	133.2	151.7	170.7	191.5	216.0
42.5°	80.7	82.6	82.9	86.7	91.6	101.0	112.1	129.1	150.1	171.9	196.3
45°	72.0	72.0	71.8	73.5	77.4	85.5	95.6	110.8	130.8	153.5	179.0
47.5°	65.9	66.4	66.2	66.9	69.5	75.5	84.5	97.4	115.6	137.9	163.5
50°	61.3	61.9	62.1	62.2	63.2	68.2	75.9	86.3	102.5	123.8	149.6
52.5°	57.6	57.8	57.8	57.6	58.0	60.8	67.2	76.8	91.8	111.0	135.7
55°	55.6	55.8	55.8	55.8	55.8	57.6	62.2	70.0	82.1	100.1	122.5
57.5°	53.3	53.3	53.7	53.7	53.7	54.3	57.6	64.1	73.3	87.7	107.6
60°	51.3	51.8	52.5	52.7	52.5	52.5	54.2	58.4	64.6	75.0	91.8
62.5°	48.4	49.0	49.9	50.2	50.4	50.0	50.9	52.7	56.3	61.7	73.1
63°	47.9	48.5	49.2	49.5	49.7	49.4	50.0	51.5	54.5	58.9	69.2
65°	45.7	46.6	46.7	46.9	46.7	46.6	46.4	46.4	47.2	48.9	54.3
67.5°	42.8	43.3	43.3	43.6	42.8	42.4	42.1	41.8	41.3	41.4	43.4
70°	39.3	39.6	39.5	39.3	39.0	38.5	38.1	37.6	36.7	36.3	37.3
72.5°	35.3	35.7	35.7	35.7	35.0	34.7	34.3	34.0	33.7	34.0	34.3
75°	31.7	31.7	32.0	31.9	31.4	31.0	30.9	30.7	30.7	30.7	30.5
77.5°	28.2	28.1	28.1	27.6	27.2	27.1	27.4	27.6	27.4	27.1	26.9
80°	25.3	24.4	23.6	22.9	22.8	23.1	23.4	24.4	23.9	23.9	23.6
82.5°	21.5	19.6	18.5	18.7	18.2	18.3	18.7	19.8	19.5	19.6	20.3
85°	17.2	15.5	13.7	14.0	14.0	13.7	14.5	14.9	15.2	16.0	15.4
87.5°	12.1	10.6	8.8	7.6	7.9	8.3	8.6	8.3	7.3	7.6	7.4
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	273.1	273.1	273.1	273.1	273.1	273.1	273.1	273.1	273.1	273.1	273.1
2.5°	275.4	275.6	275.6	274.4	274.1	274.4	274.2	274.2	273.2	273.4	273.1
5°	285.5	285.8	284.8	284.0	282.8	282.7	282.5	281.8	281.2	279.9	279.2
7.5°	296.2	294.7	294.4	292.9	292.4	291.1	290.1	289.1	288.3	287.6	287.1
10°	303.0	301.8	301.5	298.8	298.0	296.4	295.4	294.2	293.2	292.2	292.1
12.5°	309.1	307.1	305.9	302.3	300.7	298.8	298.0	297.0	296.7	296.5	297.2
15°	313.9	311.1	308.9	305.6	304.3	303.3	303.5	303.0	304.9	306.1	308.3
17.5°	317.0	315.8	315.4	312.9	313.7	313.7	316.0	317.2	320.8	323.8	326.7
20°	318.7	320.8	324.9	325.8	327.7	329.9	333.3	335.3	339.1	343.4	347.5
22.5°	320.1	329.2	337.6	343.9	348.4	353.3	355.8	359.9	362.6	365.7	372.0
25°	328.4	343.6	358.4	366.5	377.1	384.2	389.8	393.9	398.6	401.2	408.3
27.5°	326.1	345.4	365.2	380.1	396.6	410.0	421.8	429.8	435.7	445.3	451.2
30°	315.5	338.0	361.9	383.0	406.2	428.0	448.6	467.1	482.9	495.8	504.6
32.5°	300.5	326.2	354.3	380.4	410.0	439.0	468.7	497.0	523.9	545.2	558.6
35°	283.7	311.4	342.4	373.3	408.8	446.8	486.9	524.9	563.8	597.8	624.6
37.5°	263.2	293.2	327.2	363.1	403.8	449.4	499.9	551.6	601.3	652.8	690.5
40°	241.7	271.1	306.4	347.4	394.4	448.1	510.0	577.0	649.0	715.4	772.7
42.5°	223.4	252.1	289.1	329.5	380.2	443.1	516.8	599.8	688.5	774.5	850.6
45°	205.4	236.1	273.4	316.2	371.5	441.2	525.5	619.6	720.8	822.9	920.0
47.5°	191.2	221.6	259.2	305.1	364.4	440.0	533.8	638.1	747.3	858.9	974.0
50°	177.7	206.7	243.4	291.7	357.0	438.2	538.7	652.8	767.9	887.1	1012.3
52.5°	163.8	194.0	229.7	276.6	347.2	434.6	540.2	664.4	789.2	914.2	1048.1
55°	149.8	180.0	215.6	264.2	334.0	427.5	539.1	672.8	811.5	942.7	1080.8
57.5°	132.6	162.3	199.6	248.5	317.0	413.3	533.5	676.4	825.4	969.5	1113.6
60°	113.3	141.3	176.7	226.5	296.2	392.8	520.9	671.3	831.6	987.2	1148.5
62.5°	89.0	113.4	146.0	195.5	266.0	363.2	493.5	648.7	816.4	982.7	1163.5
63°	83.5	107.2	140.7	187.2	257.1	353.0	485.4	640.9	809.7	978.6	1161.7
65°	63.7	81.2	109.0	150.6	217.3	305.8	442.8	597.0	767.1	937.5	1133.1
67.5°	47.1	56.1	73.1	101.0	152.9	237.9	362.9	515.6	676.6	836.8	1035.9
70°	39.0	42.4	50.4	64.7	94.6	157.8	256.4	392.5	543.9	681.7	861.5
72.5°	34.8	37.3	40.9	47.4	59.8	92.6	166.8	254.8	378.8	498.0	649.9
75°	31.2	32.9	35.8	39.6	45.2	58.0	88.2	151.1	231.5	335.5	445.8
77.5°	27.4	29.1	32.0	35.0	38.6	44.1	54.6	86.0	138.5	195.8	273.6
80°	23.8	24.6	27.1	31.4	34.0	38.5	41.9	53.8	75.5	102.5	145.8
82.5°	19.6	19.8	21.5	24.8	28.1	29.7	30.7	33.8	43.4	54.2	71.5
85°	14.0	13.4	14.4	15.7	18.3	16.8	18.0	19.0	23.1	27.9	51.2
87.5°	6.3	5.0	5.8	6.4	5.8	4.0	5.8	4.8	5.9	11.7	13.2
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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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	273.1	273.1	273.1	273.1	273.1	273.1	273.1	273.1	273.1	273.1	273.1	0°
2.5°	273.4	272.4	272.4	272.3	272.4	272.1	271.4	271.4	271.9	271.8	271.8	2.5°
5°	279.2	277.9	277.5	277.4	277.4	276.6	275.6	275.1	274.9	274.2	273.7	5°
7.5°	286.8	286.0	286.5	285.5	285.1	285.0	283.7	282.7	281.2	280.5	278.0	7.5°
10°	293.1	292.6	293.9	293.7	293.9	293.9	292.1	291.1	288.9	287.8	284.6	10°
12.5°	298.5	298.8	301.3	301.3	301.8	302.5	301.5	299.3	298.5	297.4	294.1	12.5°
15°	312.4	313.7	315.5	318.5	319.3	319.5	320.3	318.5	316.3	313.4	309.4	15°
17.5°	331.2	333.8	340.0	344.2	345.1	345.9	345.4	345.1	341.1	338.6	334.5	17.5°
20°	354.8	361.2	369.8	375.8	378.4	378.8	382.1	379.7	376.1	371.2	365.2	20°
22.5°	381.2	392.0	402.9	411.6	416.7	419.0	422.5	419.2	414.4	411.4	403.5	22.5°
25°	417.4	429.1	441.7	448.6	461.6	465.4	467.4	466.4	461.5	463.6	456.4	25°
27.5°	466.9	477.0	494.7	503.4	515.6	522.7	521.2	529.5	531.0	536.1	536.9	27.5°
30°	520.9	537.6	561.4	579.0	597.7	609.7	619.3	626.6	635.0	649.2	657.8	30°
32.5°	579.2	603.3	633.7	671.2	710.8	743.1	779.6	785.9	804.7	799.3	795.6	32.5°
35°	644.1	674.5	713.4	762.6	820.2	873.7	908.9	926.6	934.0	938.1	913.0	35°
37.5°	730.9	772.0	815.5	869.1	913.2	963.2	1003.7	1047.6	1067.7	1058.2	1010.1	37.5°
40°	827.2	865.6	924.4	968.3	1020.3	1102.7	1157.6	1210.4	1226.9	1195.0	1119.7	40°
42.5°	923.8	976.6	1040.3	1102.7	1162.5	1237.1	1309.8	1362.0	1380.1	1325.6	1236.3	42.5°
45°	1009.8	1077.5	1152.4	1216.5	1300.0	1397.6	1486.6	1528.5	1525.2	1437.7	1337.2	45°
47.5°	1084.7	1172.6	1257.1	1343.5	1427.7	1537.8	1626.0	1674.2	1640.0	1548.0	1434.1	47.5°
50°	1146.7	1252.8	1354.9	1454.1	1557.4	1674.5	1759.5	1804.1	1752.1	1635.7	1508.4	50°
52.5°	1193.7	1325.3	1442.9	1553.8	1677.3	1803.8	1879.4	1906.3	1825.2	1703.6	1564.0	52.5°
55°	1238.1	1386.9	1517.0	1643.0	1796.7	1910.1	1980.9	1976.0	1871.3	1733.1	1598.9	55°
57.5°	1271.6	1439.4	1577.9	1721.4	1887.0	2008.2	2049.1	2016.4	1890.5	1741.9	1608.9	57.5°
60°	1313.9	1480.3	1632.1	1792.2	1972.8	2075.4	2080.8	2022.2	1885.0	1725.3	1594.7	60°
62.5°	1341.0	1505.9	1666.6	1840.8	2038.2	2113.2	2074.2	1997.3	1853.6	1684.6	1562.2	62.5°
63°	1343.6	1508.4	1669.4	1845.5	2047.5	2114.8	2068.1	1986.0	1844.4	1673.3	1553.6	63°
65°	1331.7	1501.3	1656.5	1837.0	2049.8	2095.3	2023.4	1940.0	1793.4	1616.0	1503.1	65°
67.5°	1248.7	1425.0	1573.1	1742.4	1960.6	1985.9	1913.7	1823.1	1685.4	1492.5	1392.7	67.5°
70°	1099.9	1267.5	1372.5	1529.7	1721.7	1751.9	1687.4	1617.2	1494.9	1333.7	1250.8	70°
72.5°	886.1	1050.7	1113.8	1234.2	1386.7	1380.1	1334.7	1326.0	1261.6	1126.3	1076.5	72.5°
75°	662.4	819.1	845.7	894.7	979.9	977.8	988.3	1026.0	1058.2	978.2	914.4	75°
77.5°	436.9	592.7	609.2	666.4	690.0	754.7	830.6	925.2	972.1	939.4	861.0	77.5°
80°	241.7	405.5	402.2	424.5	466.3	560.4	675.4	815.9	909.7	886.3	800.4	80°
82.5°	125.6	256.2	252.4	256.4	295.2	374.3	461.8	576.7	673.6	675.8	646.9	82.5°
85°	93.4	183.9	194.8	203.7	229.5	257.1	273.1	309.9	363.1	412.6	430.3	85°
87.5°	34.3	110.5	137.5	147.8	148.4	145.0	118.1	129.9	118.2	139.8	195.3	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°
273.1	273.1	273.1	273.1	273.1	273.1	273.1
272.1	272.1	271.9	272.3	272.4	272.9	272.8
273.2	272.8	272.3	271.9	271.6	271.8	271.4
276.2	274.6	273.2	272.1	271.1	270.9	269.9
282.8	279.9	277.4	275.6	273.6	272.6	270.8
291.2	287.9	284.8	282.2	279.9	278.5	277.2
305.9	301.2	297.4	294.5	292.2	290.7	289.4
327.7	321.8	316.0	310.6	309.9	306.4	306.4
357.8	349.7	342.3	337.6	335.5	330.9	330.9
399.4	391.5	380.4	374.8	375.3	371.3	373.1
453.2	446.6	435.2	432.9	432.9	428.6	422.2
533.9	531.6	519.1	522.2	515.6	499.6	482.3
653.8	653.8	629.5	612.0	596.9	571.9	541.4
773.8	758.2	721.0	691.3	659.8	621.6	582.3
875.2	833.4	795.8	759.5	712.1	671.2	616.0
960.7	921.1	878.0	822.7	767.1	710.0	639.1
1066.7	1018.5	953.8	884.3	815.9	737.4	655.3
1163.7	1103.2	1021.5	933.5	846.5	758.8	663.1
1254.8	1176.9	1076.0	970.3	871.3	772.0	666.4
1340.7	1236.1	1118.8	996.6	888.3	779.1	665.5
1397.3	1279.6	1145.7	1012.4	898.5	781.6	663.2
1432.8	1306.1	1161.5	1021.2	903.6	782.1	663.1
1452.8	1321.2	1170.1	1027.3	909.2	785.1	667.0
1468.3	1333.1	1179.7	1037.7	922.6	798.9	683.0
1483.0	1364.3	1204.6	1056.8	945.9	824.9	718.2
1489.1	1423.5	1255.3	1092.2	978.4	866.5	773.0
1488.6	1434.8	1270.0	1101.9	987.0	877.5	787.1
1470.6	1470.4	1336.9	1148.5	1027.0	928.7	845.7
1417.3	1488.3	1410.8	1209.9	1089.0	1013.1	933.8
1332.9	1466.6	1420.9	1226.1	1133.1	1090.5	992.6
1187.6	1363.3	1326.6	1157.1	1118.1	1105.7	994.1
960.6	1096.0	1080.3	988.5	1002.8	1028.3	887.9
773.8	769.6	767.2	733.9	795.0	846.7	660.1
646.4	532.5	494.5	481.6	582.3	622.0	409.6
604.3	478.3	383.7	367.5	436.4	457.5	247.0
461.8	464.4	402.0	344.6	339.5	310.7	181.0
226.0	229.8	242.9	221.7	190.2	160.3	57.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)