

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: P146019

Luminaire Tested: **LDRL-SLR-E01-E-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146019
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-7030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(1) 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: 2460.1 lumens
Efficiency: N/A
Efficacy: 99.6 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

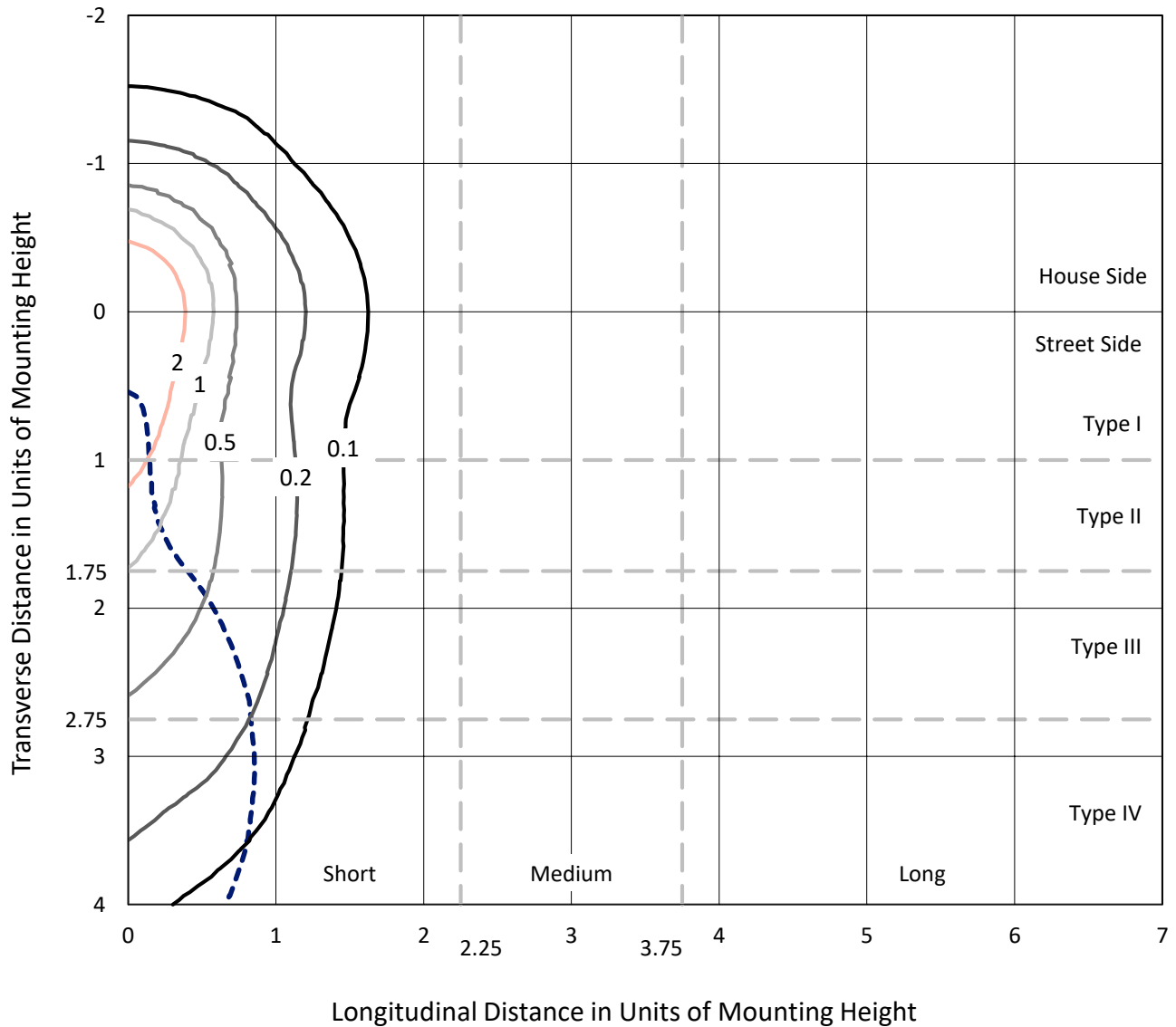
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

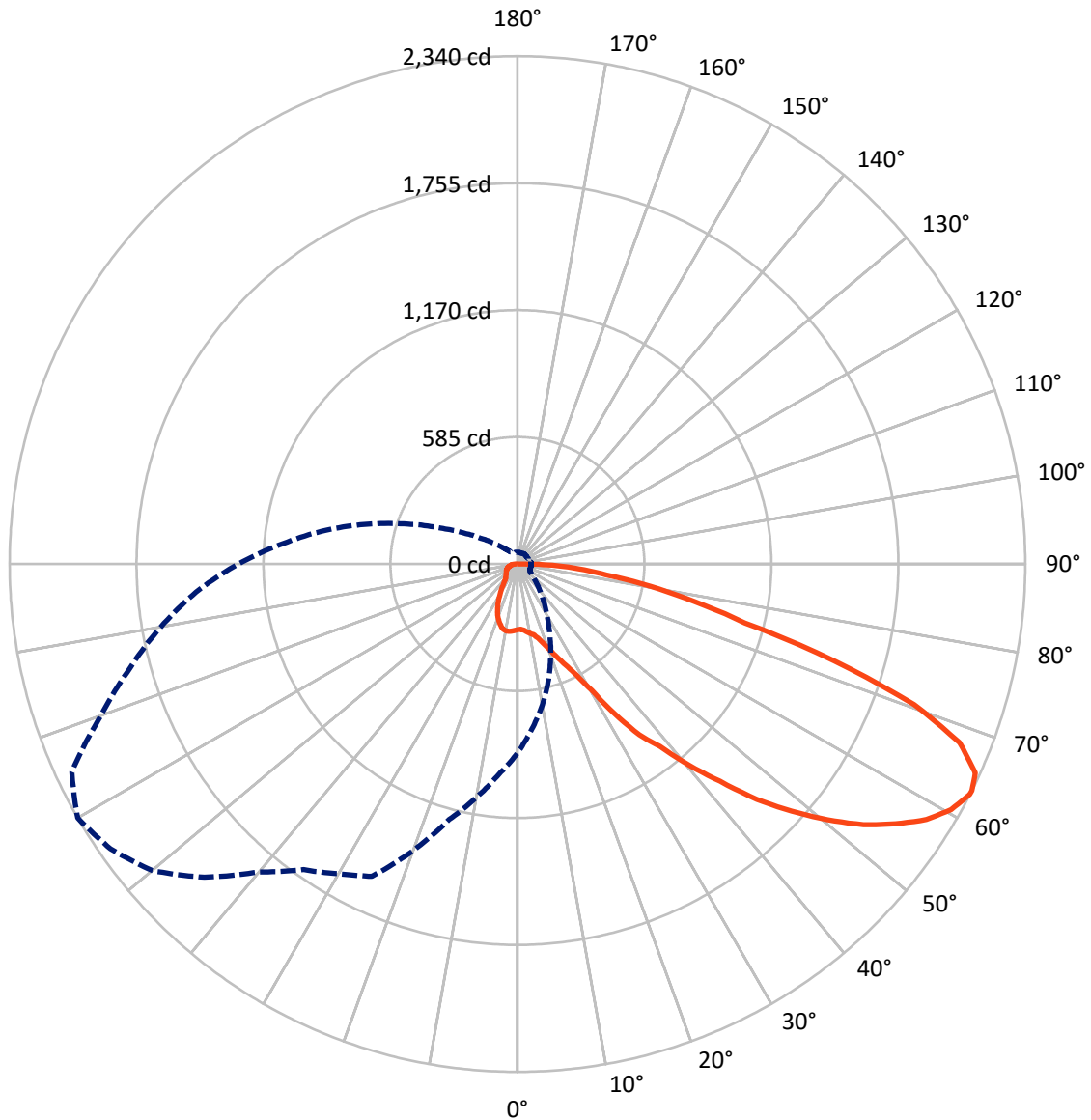
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.9 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	515.0	0.0	515.0
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	1945.1	0.0	1945.1
	% Fixture	79.1	0.0	79.1
Total	Lumens	2460.1	0.0	2460.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.7	1.2
10°-20°	92.6	3.8
20°-30°	163.8	6.7
30°-40°	258.6	10.5
40°-50°	380.2	15.5
50°-60°	500.8	20.4
60°-70°	558.2	22.7
70°-80°	366.8	14.9
80°-90°	109.4	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°	2460.1	100.0
0°-180°	2460.1	100.0



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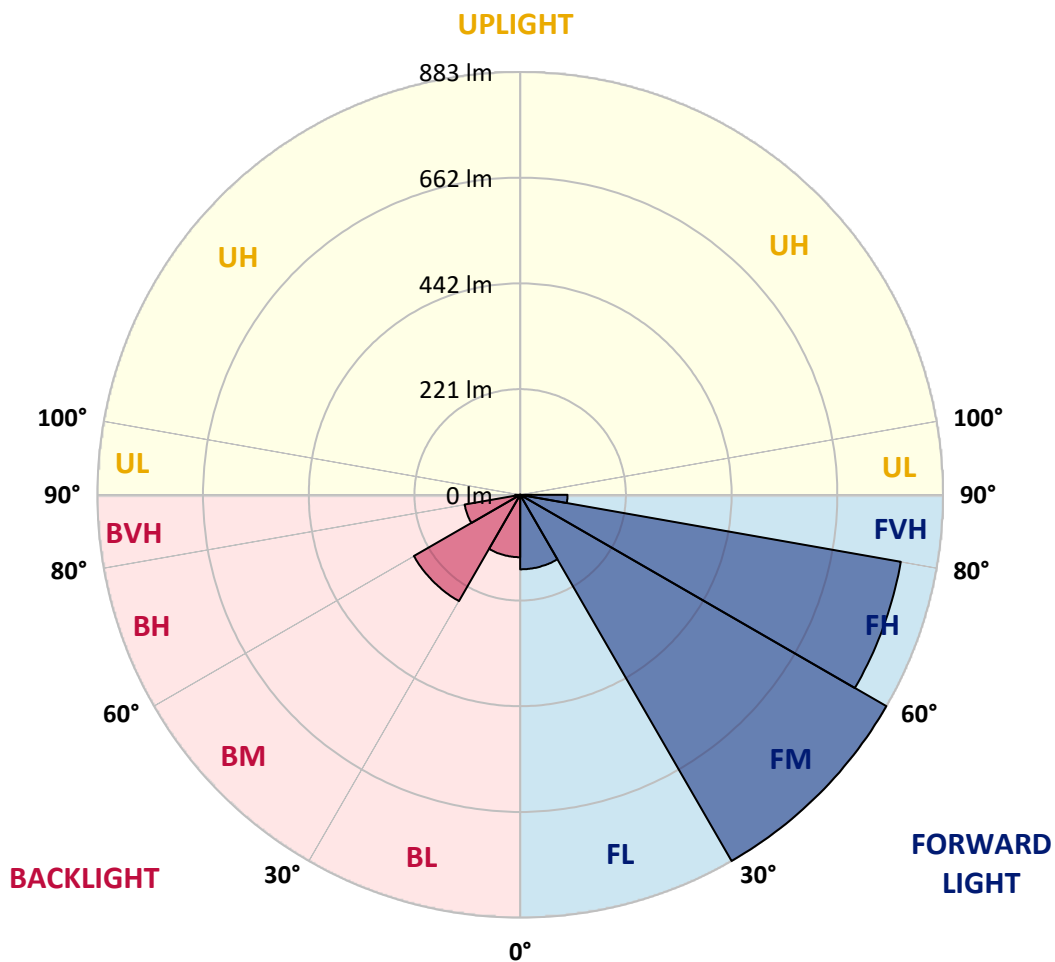
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	155.7	6.3			
FM	(30°-60°)	883.2	35.9			
FH	(60°-80°)	807.3	32.8			G1/1800
FVH	(80°-90°)	98.9	4.0			G1/100
BL	(0°-30°)	130.4	5.3	B1/500		
BM	(30°-60°)	256.4	10.4	B1/1000		
BH	(60°-80°)	117.7	4.8	B1/500		G1/500
BVH	(80°-90°)	10.5	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-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1
2.5°	301.8	302.3	302.3	301.8	302.3	302.1	302.1	302.7	302.9	303.8	303.2
5°	300.3	300.5	300.7	300.3	300.5	300.5	300.9	301.4	301.6	302.7	302.1
7.5°	298.7	299.0	298.3	298.5	299.0	299.8	299.8	300.5	301.8	302.3	302.1
10°	299.6	299.2	298.7	298.5	298.8	299.0	299.4	300.7	301.8	302.3	303.2
12.5°	306.7	305.6	305.1	304.9	305.1	304.7	306.0	306.3	306.7	307.4	307.1
15°	320.2	318.8	317.8	316.9	318.9	318.0	318.0	316.9	315.1	312.4	308.9
17.5°	339.0	337.4	336.7	336.3	336.5	334.8	331.5	326.2	319.9	312.5	305.8
20°	366.1	368.6	367.5	362.6	360.8	353.5	343.1	332.1	321.0	309.3	298.1
22.5°	412.8	411.4	406.4	394.2	383.2	366.8	348.2	330.5	314.0	297.0	282.4
25°	467.1	454.8	441.0	416.9	391.6	364.6	337.8	316.7	294.8	276.2	258.7
27.5°	533.6	507.1	471.7	432.4	394.8	358.8	327.0	299.2	274.2	254.3	234.7
30°	599.0	554.8	505.4	453.4	402.6	354.0	312.0	279.9	251.0	225.4	205.7
32.5°	644.3	590.8	529.4	465.1	403.3	346.3	295.6	257.2	224.7	198.9	175.2
35°	681.5	614.7	537.8	463.3	391.6	328.4	272.0	229.4	194.9	168.2	147.4
37.5°	707.1	626.9	537.2	452.7	370.8	299.9	245.0	201.7	169.5	144.7	125.5
40°	725.0	630.8	530.1	434.6	346.9	272.4	216.1	176.6	148.5	129.1	115.3
42.5°	733.6	628.2	519.5	417.4	323.1	250.1	194.4	159.8	137.0	122.4	112.2
45°	737.3	622.0	507.6	400.6	303.8	230.9	183.2	154.7	136.8	124.2	113.1
47.5°	736.3	615.2	497.0	386.7	292.3	225.8	185.4	161.7	143.6	127.9	113.6
50°	733.8	609.0	490.3	381.6	292.1	233.5	197.6	173.4	151.4	131.2	113.1
52.5°	733.6	608.5	493.9	387.6	302.7	250.8	216.1	186.9	159.1	134.8	113.3
55°	738.0	618.3	509.5	403.9	328.3	275.1	236.9	201.3	167.7	137.4	112.7
57.5°	755.7	643.0	538.9	440.2	361.1	304.7	257.0	212.1	171.0	136.6	110.2
60°	794.6	686.3	584.2	491.6	403.3	331.7	268.9	215.7	169.5	132.3	104.7
62.5°	855.3	748.9	646.3	542.0	440.8	348.0	271.6	212.8	163.7	124.9	97.9
63°	870.8	763.4	658.9	552.4	447.2	349.6	271.4	211.7	162.0	123.1	96.3
65°	935.6	825.3	709.5	586.7	464.3	352.9	267.2	204.8	154.7	114.5	88.8
67.5°	1033.2	893.6	759.7	618.7	473.8	347.1	254.1	187.6	135.9	99.6	77.6
70°	1098.2	938.9	789.7	629.1	462.7	320.4	224.0	157.3	111.1	82.0	66.3
72.5°	1099.9	898.4	749.1	575.0	399.5	264.3	175.4	118.9	86.4	66.7	57.2
75°	982.4	759.2	612.3	472.2	307.4	186.9	123.3	86.8	66.3	55.0	49.5
77.5°	730.3	553.9	441.9	317.7	199.7	121.1	85.9	64.3	52.6	45.5	41.5
80°	453.2	346.2	268.2	190.0	119.6	80.6	62.8	51.1	44.2	38.0	34.7
82.5°	273.3	193.8	151.4	114.7	76.5	58.1	48.4	43.1	37.4	32.0	29.4
85°	200.2	138.6	101.6	70.9	47.3	38.4	34.0	32.9	29.0	24.7	23.2
87.5°	63.0	66.1	68.7	41.8	22.8	17.4	14.8	17.4	16.6	11.7	12.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1
2.5°	304.1	304.9	304.3	304.3	304.0	303.8	305.1	304.7	305.1	304.9	305.2
5°	303.0	303.6	303.2	303.6	303.2	303.2	304.9	304.9	305.6	306.0	306.9
7.5°	303.4	303.6	303.4	304.0	303.6	303.2	304.1	304.7	306.0	307.1	308.0
10°	304.7	305.2	305.1	305.1	304.0	303.2	303.8	304.1	305.4	306.0	307.1
12.5°	307.8	307.1	305.6	304.7	302.1	300.7	299.9	299.6	300.5	301.2	301.8
15°	307.1	303.0	299.8	297.0	293.2	290.8	289.0	288.8	289.0	289.2	289.7
17.5°	299.6	294.1	287.5	284.1	279.7	277.1	275.8	274.9	274.7	275.1	276.0
20°	288.8	280.8	273.5	267.4	262.7	258.7	259.6	257.6	258.5	259.0	260.7
22.5°	272.4	261.2	252.8	245.5	239.8	235.6	235.6	233.8	234.2	235.8	238.0
25°	245.7	235.3	223.2	218.1	211.7	208.8	208.2	207.9	209.3	211.3	212.6
27.5°	221.6	207.3	195.5	188.7	181.9	182.7	179.0	181.2	182.9	184.5	186.0
30°	189.1	177.4	166.6	159.8	151.8	152.0	152.5	152.9	154.4	156.5	159.5
32.5°	157.8	145.2	135.2	127.9	123.1	121.7	119.6	122.9	124.8	127.0	129.9
35°	132.1	118.9	110.5	104.1	101.4	99.4	98.8	98.5	100.1	101.2	103.6
37.5°	113.6	104.7	98.5	93.9	91.3	89.1	88.6	88.2	88.0	87.7	89.1
40°	106.1	99.0	93.7	89.5	87.1	85.9	85.3	84.6	83.8	82.9	82.7
42.5°	103.9	96.3	90.1	85.9	84.0	83.8	83.8	83.5	82.7	81.5	80.6
45°	103.0	93.7	86.6	83.3	82.0	82.2	82.2	82.2	81.7	80.4	78.9
47.5°	101.4	90.6	83.3	80.6	80.0	80.4	80.7	80.7	80.4	79.3	77.6
50°	98.3	85.9	78.2	75.6	75.4	75.6	75.6	76.0	75.6	74.7	73.3
52.5°	95.9	82.2	74.3	72.3	72.3	72.2	72.0	72.0	71.8	71.1	70.0
55°	93.7	79.8	72.7	71.1	71.4	71.4	71.1	70.9	70.1	69.2	68.1
57.5°	90.6	77.3	71.1	70.0	70.3	70.1	70.0	69.8	69.0	68.0	66.5
60°	85.1	72.7	67.8	67.0	67.6	67.8	68.5	68.7	68.3	67.0	65.0
62.5°	79.1	67.0	63.4	62.8	63.4	63.9	64.5	64.1	64.1	62.8	61.0
63°	77.1	66.1	62.1	62.1	62.7	63.2	63.6	63.2	63.4	61.9	60.1
65°	72.5	62.8	59.7	59.9	60.5	60.8	61.0	61.0	60.8	59.7	58.1
67.5°	64.8	58.1	56.3	57.2	57.9	58.1	58.1	58.5	58.1	57.4	55.9
70°	57.9	53.5	52.2	53.3	53.7	53.9	53.9	53.9	53.5	52.8	51.5
72.5°	52.6	50.4	50.2	50.1	50.2	49.7	49.7	49.3	48.4	47.9	46.8
75°	46.8	45.7	45.9	45.7	45.3	45.1	44.2	43.8	42.7	42.0	40.6
77.5°	40.2	40.4	40.2	40.4	40.7	40.9	39.6	38.7	37.8	37.1	36.4
80°	33.4	33.8	33.4	33.8	34.0	34.0	32.7	31.2	30.5	31.1	31.2
82.5°	29.8	29.8	28.3	28.7	28.3	27.8	26.9	26.3	25.8	25.4	26.3
85°	23.6	23.7	24.1	23.7	23.0	22.5	21.6	20.8	20.3	20.8	22.1
87.5°	14.1	15.2	14.6	14.6	14.4	14.4	13.7	13.3	12.8	15.0	16.1
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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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1
2.5°	305.1	305.6	305.8	305.6	305.8	306.2	304.7	306.2	306.3	305.2	305.6
5°	307.6	308.5	309.8	309.8	310.7	311.3	310.5	312.5	312.9	312.7	313.6
7.5°	309.4	310.7	312.4	313.3	314.9	315.7	316.2	318.0	318.4	319.1	319.9
10°	309.3	311.1	312.5	315.1	317.1	318.6	319.7	321.7	322.4	323.5	324.1
12.5°	304.0	306.0	308.7	312.4	316.0	318.4	321.3	324.2	325.3	326.8	327.7
15°	292.1	293.7	297.6	302.3	307.3	313.3	317.5	322.0	324.1	325.5	326.8
17.5°	276.6	278.0	281.5	285.7	292.3	298.1	304.5	311.5	314.9	316.6	317.1
20°	262.1	264.3	265.2	270.2	272.4	278.2	283.7	291.4	295.7	298.7	300.5
22.5°	239.5	240.6	245.3	247.3	249.0	252.6	259.4	266.2	272.0	276.7	278.2
25°	214.5	217.4	219.9	221.6	225.4	225.6	231.1	235.8	243.1	247.7	251.4
27.5°	186.9	191.3	192.7	193.8	196.7	200.2	202.2	207.0	211.2	216.5	223.0
30°	159.1	163.3	166.2	167.9	170.6	173.9	175.4	178.5	183.9	189.8	194.9
32.5°	133.2	137.6	139.0	144.3	145.0	148.1	149.2	154.2	157.3	162.2	168.2
35°	107.8	112.3	116.7	119.6	122.9	122.8	125.7	130.2	133.0	138.1	142.1
37.5°	90.4	93.2	96.3	99.6	103.2	105.9	108.7	110.7	112.9	116.4	120.0
40°	82.7	83.5	84.8	86.8	89.3	91.3	93.3	95.0	96.6	99.4	101.7
42.5°	79.6	79.1	79.1	78.7	79.6	80.7	82.4	82.9	85.5	87.1	88.0
45°	77.5	76.2	75.3	74.2	73.8	74.2	75.1	76.4	78.0	78.5	78.5
47.5°	76.2	74.2	72.7	71.1	70.1	70.1	70.7	71.6	72.5	72.7	72.5
50°	71.8	69.8	68.0	66.5	65.8	65.8	65.9	67.2	67.4	67.0	67.2
52.5°	68.5	66.5	64.7	63.4	62.5	62.7	63.2	63.8	64.3	63.9	63.6
55°	66.5	64.1	62.5	61.0	59.9	60.3	60.8	61.6	62.5	61.9	61.4
57.5°	64.7	62.7	60.6	59.2	57.9	58.3	58.8	59.9	61.0	59.9	59.2
60°	63.0	61.0	59.0	57.5	56.1	56.4	57.2	58.3	59.2	57.7	56.8
62.5°	59.0	57.2	55.7	55.0	54.1	54.6	55.2	56.4	56.1	54.6	53.5
63°	58.3	56.4	55.2	54.4	53.7	54.4	54.6	55.9	55.3	53.9	53.0
65°	56.1	54.6	53.3	52.6	51.9	52.2	52.2	52.8	52.1	51.0	50.2
67.5°	54.1	52.4	51.1	49.7	49.0	48.6	48.4	48.2	47.7	47.1	46.9
70°	49.7	48.6	47.5	46.2	45.1	44.4	44.0	43.7	43.3	43.1	42.9
72.5°	44.9	44.0	42.9	42.2	41.3	40.7	39.8	39.6	39.3	38.9	38.7
75°	39.8	38.7	38.4	37.6	37.1	36.7	36.0	35.8	35.4	34.9	34.7
77.5°	35.3	34.9	34.3	34.2	33.2	32.7	32.3	32.1	31.8	31.4	31.1
80°	31.4	31.2	30.9	30.7	30.1	29.4	29.0	29.2	28.7	28.5	27.9
82.5°	28.3	28.5	28.5	27.9	27.4	26.5	26.1	26.7	26.3	25.6	24.8
85°	24.1	23.9	24.1	23.9	22.8	21.9	21.6	21.9	21.7	20.6	20.5
87.5°	17.2	17.0	16.6	17.7	16.3	13.2	13.5	15.3	14.8	14.2	13.9
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°	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1
2.5°	306.3	305.8	306.2	306.3	305.8	307.1	305.8	306.0	306.3	305.2	305.1
5°	314.4	314.4	315.8	316.0	315.8	317.5	317.3	317.5	317.1	316.9	316.2
7.5°	321.0	321.7	322.8	324.4	325.0	326.2	326.6	326.8	327.5	328.3	327.9
10°	325.7	327.7	328.6	330.3	331.9	332.8	333.7	335.2	335.7	336.3	335.6
12.5°	329.0	331.4	332.8	334.8	336.8	338.3	339.9	341.8	343.6	344.2	343.2
15°	327.3	330.1	332.3	334.5	337.6	340.3	343.4	346.7	349.1	350.0	348.9
17.5°	317.1	319.9	323.1	326.4	329.7	334.8	339.2	344.7	348.5	351.3	351.6
20°	303.0	304.7	309.4	312.7	318.0	324.1	330.6	337.0	341.4	346.3	349.3
22.5°	282.2	285.5	290.8	296.5	301.8	309.6	316.6	325.0	332.5	339.2	345.6
25°	256.8	261.4	267.6	275.5	282.4	290.8	300.9	310.2	322.8	333.4	347.1
27.5°	229.4	237.8	246.4	254.6	262.3	271.8	282.2	292.6	307.1	324.1	342.0
30°	203.5	210.4	221.2	230.7	239.7	251.4	262.1	273.6	287.3	307.4	327.7
32.5°	176.5	182.1	190.5	202.2	212.6	226.3	235.8	249.5	265.4	286.6	309.6
35°	148.5	156.4	163.1	171.2	179.0	192.7	207.0	222.1	240.4	263.0	288.3
37.5°	123.9	128.8	132.1	140.3	147.2	158.9	175.5	193.8	213.9	236.9	264.0
40°	103.4	106.5	110.2	115.6	121.5	132.1	147.4	167.9	188.9	211.9	238.9
42.5°	89.3	91.3	91.7	95.9	101.4	111.8	124.0	142.8	166.0	190.2	217.2
45°	79.6	79.6	79.5	81.3	85.7	94.6	105.8	122.6	144.7	169.9	198.0
47.5°	72.9	73.4	73.3	74.0	76.9	83.5	93.5	107.8	127.9	152.5	180.8
50°	67.8	68.5	68.7	68.9	70.0	75.4	84.0	95.5	113.4	137.0	165.5
52.5°	63.8	63.9	63.9	63.8	64.1	67.2	74.3	84.9	101.6	122.8	150.2
55°	61.6	61.7	61.7	61.7	61.7	63.8	68.9	77.5	90.8	110.7	135.5
57.5°	59.0	59.0	59.4	59.4	59.4	60.1	63.8	70.9	81.1	97.0	119.1
60°	56.8	57.4	58.1	58.3	58.1	58.1	59.9	64.7	71.4	82.9	101.6
62.5°	53.5	54.3	55.2	55.5	55.7	55.3	56.3	58.3	62.3	68.3	80.9
63°	53.0	53.7	54.4	54.8	55.0	54.6	55.3	57.0	60.3	65.2	76.5
65°	50.6	51.5	51.7	51.9	51.7	51.5	51.3	51.3	52.2	54.1	60.1
67.5°	47.3	47.9	47.9	48.2	47.3	46.9	46.6	46.2	45.7	45.9	48.0
70°	43.5	43.8	43.7	43.5	43.1	42.6	42.2	41.6	40.6	40.2	41.3
72.5°	39.1	39.5	39.5	39.5	38.7	38.4	38.0	37.6	37.3	37.6	38.0
75°	35.1	35.1	35.4	35.3	34.7	34.3	34.2	34.0	34.0	34.0	33.8
77.5°	31.2	31.1	31.1	30.5	30.1	30.0	30.3	30.5	30.3	30.0	29.8
80°	27.9	27.0	26.1	25.4	25.2	25.6	25.9	27.0	26.5	26.5	26.1
82.5°	23.7	21.7	20.5	20.6	20.1	20.3	20.6	21.9	21.6	21.7	22.5
85°	19.0	17.2	15.2	15.5	15.5	15.2	16.1	16.4	16.8	17.7	17.0
87.5°	13.3	11.7	9.7	8.4	8.8	9.1	9.5	9.1	8.0	8.4	8.2
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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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1
2.5°	304.7	304.9	304.9	303.6	303.2	303.6	303.4	303.4	302.3	302.5	302.1
5°	315.8	316.2	315.1	314.2	312.9	312.7	312.5	311.8	311.1	309.6	308.9
7.5°	327.7	326.1	325.7	324.1	323.5	322.0	321.0	319.9	318.9	318.2	317.7
10°	335.2	333.9	333.6	330.6	329.7	327.9	326.8	325.5	324.4	323.3	323.1
12.5°	342.0	339.8	338.5	334.5	332.6	330.6	329.7	328.6	328.3	328.1	328.8
15°	347.3	344.2	341.8	338.1	336.7	335.6	335.7	335.2	337.4	338.7	341.0
17.5°	350.7	349.4	348.9	346.2	347.1	347.1	349.6	350.9	354.9	358.2	361.5
20°	352.6	354.9	359.5	360.4	362.6	365.0	368.8	371.0	375.2	380.0	384.5
22.5°	354.2	364.2	373.6	380.5	385.4	390.9	393.7	398.2	401.1	404.6	411.6
25°	363.3	380.1	396.6	405.5	417.2	425.1	431.3	435.9	441.0	443.9	451.7
27.5°	360.8	382.1	404.1	420.5	438.8	453.6	466.7	475.5	482.1	492.7	499.2
30°	349.1	373.9	400.4	423.8	449.4	473.5	496.3	516.8	534.3	548.6	558.2
32.5°	332.5	361.0	392.0	420.9	453.6	485.7	518.6	549.8	579.6	603.2	618.0
35°	313.8	344.5	378.9	413.0	452.3	494.3	538.7	580.7	623.8	661.4	691.0
37.5°	291.2	324.4	362.1	401.7	446.8	497.2	553.1	610.3	665.3	722.3	763.9
40°	267.4	299.9	339.0	384.3	436.4	495.8	564.3	638.4	718.1	791.5	854.9
42.5°	247.2	278.9	319.9	364.6	420.7	490.3	571.8	663.6	761.7	856.9	941.1
45°	227.2	261.2	302.5	349.8	411.0	488.1	581.4	685.6	797.5	910.4	1017.8
47.5°	211.5	245.1	286.8	337.6	403.2	486.8	590.6	706.0	826.8	950.2	1077.6
50°	196.6	228.7	269.3	322.8	394.9	484.8	596.1	722.3	849.6	981.5	1120.0
52.5°	181.2	214.6	254.1	306.0	384.2	480.8	597.7	735.1	873.2	1011.4	1159.6
55°	165.7	199.1	238.6	292.3	369.5	472.9	596.4	744.4	897.8	1043.0	1195.8
57.5°	146.7	179.6	220.8	274.9	350.7	457.2	590.2	748.4	913.2	1072.6	1232.1
60°	125.3	156.4	195.5	250.6	327.7	434.6	576.3	742.7	920.1	1092.2	1270.7
62.5°	98.5	125.5	161.5	216.3	294.3	401.9	546.0	717.7	903.3	1087.3	1287.3
63°	92.4	118.6	155.6	207.1	284.4	390.5	537.0	709.1	895.8	1082.7	1285.3
65°	70.5	89.9	120.6	166.6	240.4	338.3	489.9	660.5	848.7	1037.2	1253.7
67.5°	52.1	62.1	80.9	111.8	169.2	263.2	401.5	570.5	748.6	925.8	1146.1
70°	43.1	46.9	55.7	71.6	104.7	174.6	283.7	434.2	601.7	754.2	953.2
72.5°	38.5	41.3	45.3	52.4	66.1	102.5	184.5	281.9	419.0	550.9	719.0
75°	34.5	36.4	39.6	43.8	50.1	64.1	97.5	167.1	256.1	371.2	493.2
77.5°	30.3	32.1	35.4	38.7	42.7	48.8	60.5	95.2	153.3	216.6	302.7
80°	26.3	27.2	30.0	34.7	37.6	42.6	46.4	59.6	83.5	113.4	161.3
82.5°	21.7	21.9	23.7	27.4	31.1	32.9	34.0	37.4	48.0	59.9	79.1
85°	15.5	14.8	15.9	17.4	20.3	18.6	19.9	21.0	25.6	30.9	56.6
87.5°	6.9	5.5	6.4	7.1	6.4	4.4	6.4	5.3	6.6	13.0	14.6
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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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	302.1	0°
2.5°	302.5	301.4	301.4	301.2	301.4	301.0	300.3	300.3	300.9	300.7	300.7	2.5°
5°	308.9	307.4	307.1	306.9	306.9	306.0	304.9	304.3	304.1	303.4	302.9	5°
7.5°	317.3	316.4	316.9	315.8	315.5	315.3	313.8	312.7	311.1	310.4	307.6	7.5°
10°	324.2	323.7	325.2	325.0	325.2	325.2	323.1	322.0	319.7	318.4	314.9	10°
12.5°	330.3	330.6	333.4	333.4	333.9	334.7	333.6	331.2	330.3	329.0	325.3	12.5°
15°	345.6	347.1	349.1	352.4	353.3	353.5	354.4	352.4	350.0	346.7	342.3	15°
17.5°	366.4	369.4	376.1	380.9	381.8	382.7	382.1	381.8	377.4	374.7	370.1	17.5°
20°	392.6	399.7	409.2	415.8	418.7	419.0	422.7	420.1	416.1	410.6	404.1	20°
22.5°	421.8	433.7	445.7	455.4	461.1	463.6	467.5	463.8	458.5	455.2	446.4	22.5°
25°	461.8	474.8	488.6	496.3	510.7	514.9	517.1	516.0	510.6	512.9	504.9	25°
27.5°	516.6	527.7	547.3	557.0	570.5	578.3	576.7	585.8	587.5	593.1	594.0	27.5°
30°	576.3	594.8	621.1	640.6	661.3	674.6	685.2	693.2	702.5	718.3	727.8	30°
32.5°	640.8	667.5	701.1	742.6	786.4	822.2	862.6	869.5	890.3	884.3	880.3	32.5°
35°	712.6	746.2	789.3	843.8	907.5	966.7	1005.6	1025.1	1033.4	1037.9	1010.2	35°
37.5°	808.7	854.2	902.2	961.6	1010.3	1065.7	1110.5	1159.0	1181.3	1170.7	1117.6	37.5°
40°	915.2	957.7	1022.8	1071.4	1128.9	1220.1	1280.7	1339.2	1357.4	1322.2	1238.9	40°
42.5°	1022.0	1080.5	1151.0	1220.1	1286.2	1368.7	1449.1	1506.8	1526.9	1466.7	1367.8	42.5°
45°	1117.2	1192.1	1275.0	1345.9	1438.3	1546.3	1644.8	1691.2	1687.5	1590.7	1479.4	45°
47.5°	1200.1	1297.3	1390.8	1486.4	1579.5	1701.4	1798.9	1852.3	1814.5	1712.7	1586.7	47.5°
50°	1268.6	1386.1	1499.0	1608.8	1723.1	1852.6	1946.7	1996.0	1938.5	1809.7	1668.9	50°
52.5°	1320.7	1466.3	1596.4	1719.1	1855.7	1995.7	2079.3	2109.1	2019.4	1884.8	1730.4	52.5°
55°	1369.8	1534.4	1678.4	1817.7	1987.8	2113.3	2191.7	2186.2	2070.4	1917.5	1769.0	55°
57.5°	1406.9	1592.5	1745.8	1904.5	2087.7	2221.8	2267.1	2230.9	2091.6	1927.2	1780.1	57.5°
60°	1453.7	1637.8	1805.7	1982.9	2182.7	2296.2	2302.2	2237.3	2085.5	1908.9	1764.4	60°
62.5°	1483.6	1666.1	1843.9	2036.6	2255.1	2338.0	2294.9	2209.8	2050.8	1863.8	1728.4	62.5°
63°	1486.6	1668.9	1847.0	2041.9	2265.3	2339.8	2288.1	2197.3	2040.6	1851.4	1718.9	63°
65°	1473.4	1661.0	1832.7	2032.4	2267.8	2318.3	2238.6	2146.4	1984.2	1788.0	1663.0	65°
67.5°	1381.5	1576.6	1740.5	1927.7	2169.2	2197.2	2117.3	2017.0	1864.7	1651.3	1540.8	67.5°
70°	1216.9	1402.4	1518.5	1692.4	1904.9	1938.3	1866.9	1789.3	1653.9	1475.6	1383.9	70°
72.5°	980.4	1162.5	1232.3	1365.5	1534.2	1526.9	1476.7	1467.0	1395.8	1246.2	1191.0	72.5°
75°	732.9	906.2	935.6	989.9	1084.1	1081.8	1093.5	1135.1	1170.7	1082.3	1011.6	75°
77.5°	483.3	655.8	674.1	737.3	763.4	835.0	919.0	1023.7	1075.6	1039.4	952.6	77.5°
80°	267.4	448.6	445.0	469.6	515.9	620.0	747.3	902.8	1006.5	980.6	885.6	80°
82.5°	139.0	283.5	279.3	283.7	326.6	414.1	510.9	638.1	745.3	747.7	715.7	82.5°
85°	103.4	203.5	215.6	225.4	253.9	284.4	302.1	342.9	401.7	456.5	476.0	85°
87.5°	38.0	122.2	152.2	163.5	164.2	160.4	130.6	143.8	130.8	154.7	216.1	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°
302.1	302.1	302.1	302.1	302.1	302.1	302.1
301.0	301.0	300.9	301.2	301.4	302.0	301.8
302.3	301.8	301.2	300.9	300.5	300.7	300.3
305.6	303.8	302.3	301.0	299.9	299.8	298.7
312.9	309.6	306.9	304.9	302.7	301.6	299.6
322.2	318.6	315.1	312.2	309.6	308.2	306.7
338.5	333.2	329.0	325.9	323.3	321.7	320.2
362.6	356.0	349.6	343.6	342.9	339.0	339.0
395.8	386.9	378.7	373.6	371.2	366.1	366.1
441.9	433.1	420.9	414.7	415.2	410.8	412.8
501.4	494.1	481.5	479.0	479.0	474.2	467.1
590.8	588.2	574.3	577.8	570.5	552.8	533.6
723.4	723.4	696.5	677.2	660.4	632.8	599.0
856.2	838.8	797.7	764.8	729.9	687.8	644.3
968.3	922.1	880.5	840.3	787.9	742.6	681.5
1063.0	1019.1	971.4	910.2	848.7	785.5	707.1
1180.2	1126.9	1055.3	978.4	902.8	815.8	725.0
1287.5	1220.6	1130.2	1032.8	936.5	839.6	733.6
1388.3	1302.1	1190.5	1073.6	963.9	854.2	737.3
1483.3	1367.7	1237.8	1102.6	982.8	862.0	736.3
1545.9	1415.7	1267.5	1120.1	994.1	864.8	733.8
1585.2	1445.1	1285.1	1129.8	999.8	865.3	733.6
1607.3	1461.7	1294.6	1136.6	1006.0	868.6	738.0
1624.5	1474.9	1305.2	1148.1	1020.8	883.9	755.7
1640.7	1509.4	1332.8	1169.3	1046.5	912.6	794.6
1647.5	1575.0	1388.8	1208.4	1082.5	958.7	855.3
1647.0	1587.4	1405.1	1219.1	1092.0	970.9	870.8
1627.0	1626.9	1479.1	1270.7	1136.2	1027.5	935.6
1568.0	1646.6	1560.9	1338.6	1204.9	1120.9	1033.2
1474.7	1622.7	1572.1	1356.5	1253.7	1206.5	1098.2
1313.9	1508.3	1467.8	1280.2	1237.0	1223.3	1099.9
1062.8	1212.6	1195.2	1093.6	1109.5	1137.7	982.4
856.2	851.4	848.9	812.0	879.6	936.7	730.3
715.2	589.1	547.1	532.8	644.3	688.1	453.2
668.6	529.2	424.5	406.6	482.8	506.2	273.3
510.9	513.9	444.8	381.2	375.6	343.8	200.2
250.1	254.3	268.7	245.3	210.4	177.4	63.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)