

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: P146026

Luminaire Tested: **LDRL-SLR-F01-E-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P146026  
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-7050  
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT  
Light Source: (7) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2281.6 lumens  
Efficiency: N/A  
Efficacy: 88.1 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

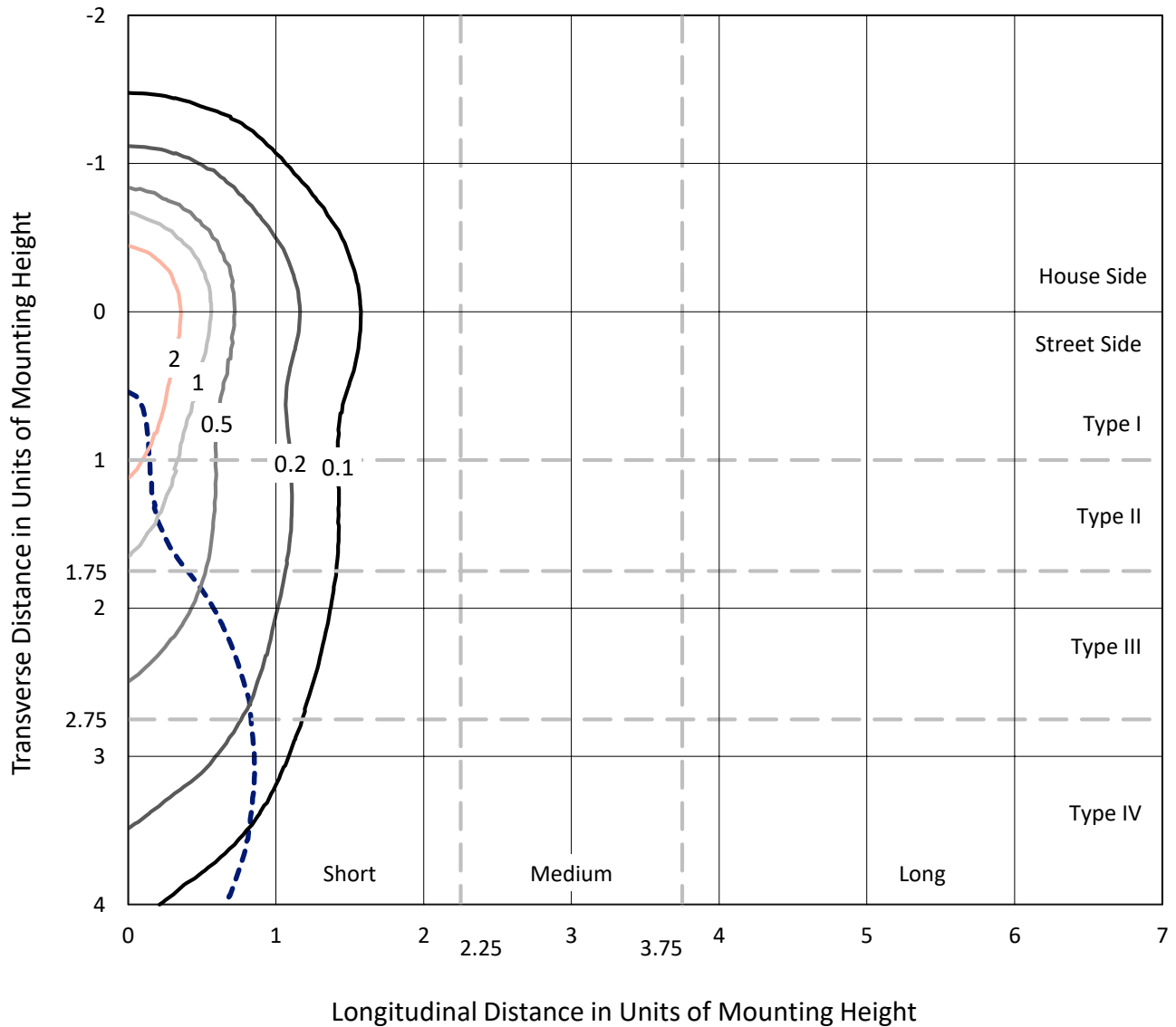
Input Watts (W): 25.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

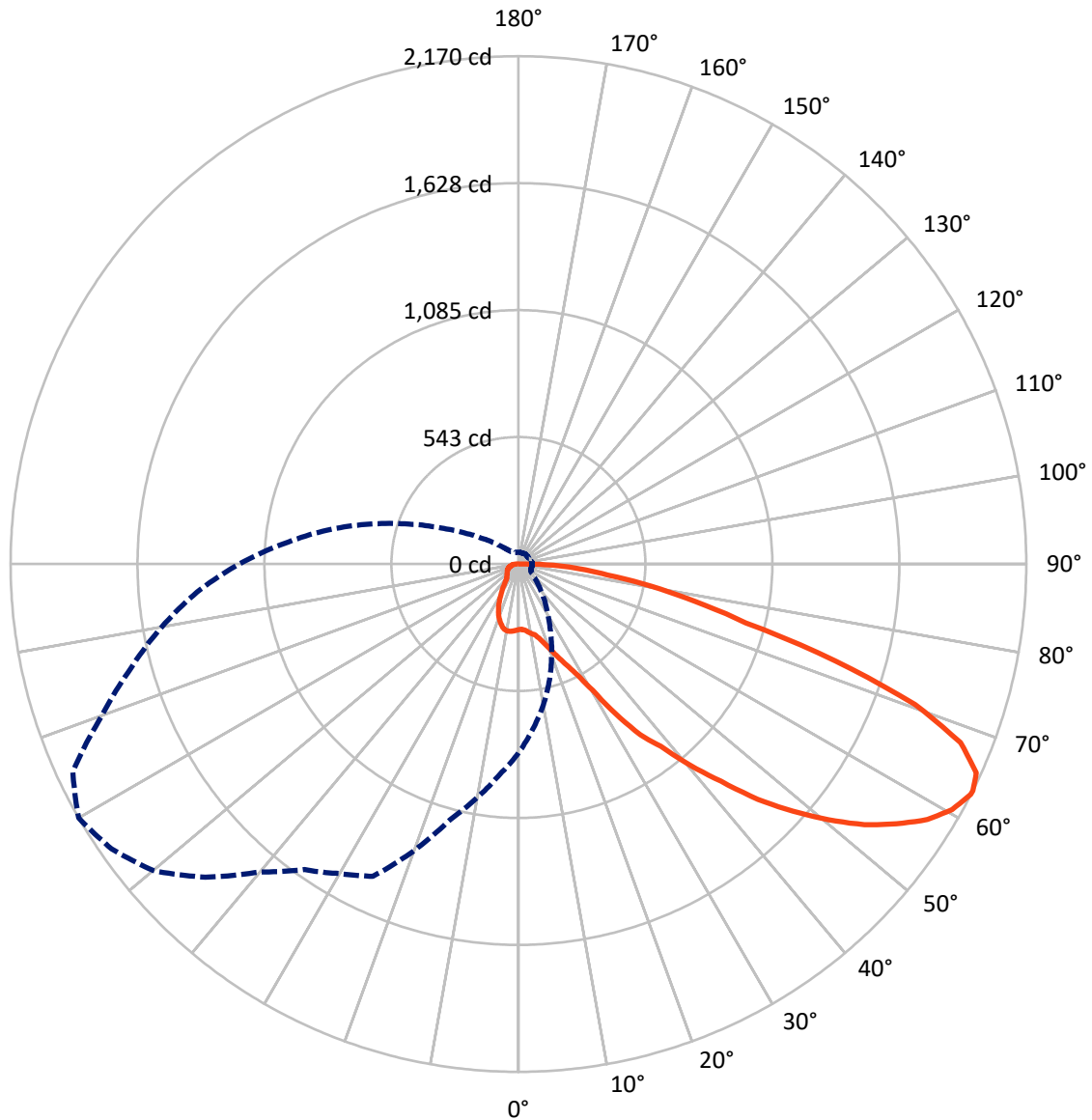
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.6 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
<b>House Side</b>	Lumens	477.6	0.0	477.6
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	1804.0	0.0	1804.0
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	2281.6	0.0	2281.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.5	1.2
10°-20°	85.9	3.8
20°-30°	151.9	6.7
30°-40°	239.8	10.5
40°-50°	352.6	15.5
50°-60°	464.5	20.4
60°-70°	517.7	22.7
70°-80°	340.2	14.9
80°-90°	101.4	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°	2281.6	100.0
0°-180°	2281.6	100.0



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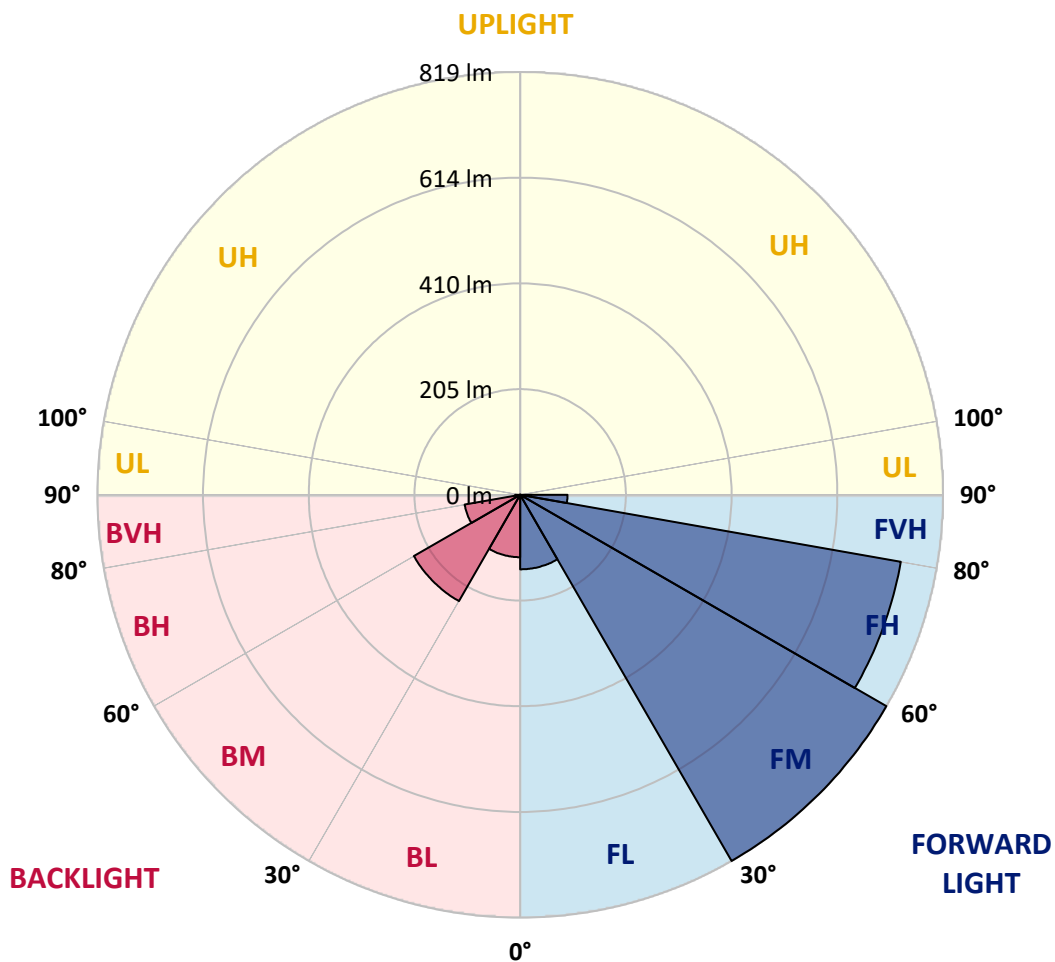
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	144.4	6.3			
FM	(30°-60°)	819.1	35.9			
FH	(60°-80°)	748.7	32.8			G1/1800
FVH	(80°-90°)	91.7	4.0			G1/100
BL	(0°-30°)	120.9	5.3	B1/500		
BM	(30°-60°)	237.8	10.4	B1/1000		
BH	(60°-80°)	109.2	4.8	B0/110		G0/110
BVH	(80°-90°)	9.8	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°	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2
2.5°	279.9	280.4	280.4	279.9	280.4	280.2	280.2	280.7	280.9	281.7	281.2
5°	278.5	278.7	278.9	278.5	278.7	278.7	279.0	279.5	279.7	280.7	280.2
7.5°	277.0	277.3	276.7	276.8	277.3	278.0	278.0	278.7	279.9	280.4	280.2
10°	277.8	277.5	277.0	276.8	277.2	277.3	277.7	278.9	279.9	280.4	281.2
12.5°	284.4	283.4	282.9	282.8	282.9	282.6	283.8	284.1	284.4	285.1	284.8
15°	297.0	295.6	294.8	293.9	295.8	295.0	295.0	293.9	292.2	289.7	286.5
17.5°	314.4	312.9	312.2	311.9	312.1	310.5	307.5	302.6	296.6	289.9	283.6
20°	339.5	341.9	340.9	336.3	334.6	327.8	318.2	308.0	297.7	286.8	276.5
22.5°	382.9	381.5	376.9	365.6	355.4	340.2	322.9	306.5	291.2	275.5	261.9
25°	433.2	421.8	409.0	386.6	363.2	338.2	313.2	293.8	273.4	256.2	239.9
27.5°	494.9	470.3	437.4	401.0	366.1	332.7	303.3	277.5	254.3	235.8	217.7
30°	555.5	514.5	468.8	420.5	373.4	328.3	289.4	259.5	232.8	209.1	190.8
32.5°	597.5	547.9	491.0	431.3	374.1	321.2	274.1	238.5	208.4	184.5	162.5
35°	632.1	570.1	498.8	429.6	363.2	304.6	252.3	212.8	180.8	156.0	136.7
37.5°	655.8	581.4	498.2	419.8	343.9	278.2	227.2	187.0	157.2	134.2	116.4
40°	672.4	585.0	491.6	403.0	321.7	252.6	200.4	163.8	137.7	119.8	106.9
42.5°	680.4	582.6	481.8	387.1	299.7	231.9	180.3	148.2	127.1	113.5	104.0
45°	683.8	576.9	470.8	371.5	281.7	214.1	169.9	143.5	126.9	115.2	104.9
47.5°	682.9	570.6	461.0	358.7	271.1	209.4	172.0	149.9	133.2	118.6	105.4
50°	680.5	564.8	454.7	353.9	270.9	216.5	183.3	160.8	140.4	121.6	104.9
52.5°	680.4	564.3	458.1	359.5	280.7	232.6	200.4	173.3	147.6	125.0	105.0
55°	684.4	573.5	472.5	374.6	304.4	255.1	219.7	186.7	155.5	127.4	104.5
57.5°	700.9	596.3	499.8	408.3	334.9	282.6	238.4	196.7	158.6	126.7	102.2
60°	737.0	636.5	541.8	455.9	374.1	307.7	249.4	200.1	157.2	122.7	97.1
62.5°	793.2	694.6	599.4	502.7	408.8	322.7	251.9	197.4	151.8	115.9	90.8
63°	807.6	708.0	611.1	512.3	414.7	324.3	251.8	196.4	150.3	114.2	89.3
65°	867.7	765.4	658.0	544.2	430.7	327.3	247.9	189.9	143.5	106.2	82.3
67.5°	958.2	828.8	704.6	573.8	439.5	321.9	235.7	174.0	126.0	92.3	72.0
70°	1018.5	870.8	732.4	583.5	429.1	297.2	207.7	145.9	103.0	76.1	61.5
72.5°	1020.0	833.2	694.8	533.3	370.5	245.1	162.6	110.3	80.1	61.8	53.0
75°	911.1	704.1	567.9	437.9	285.1	173.3	114.4	80.5	61.5	51.0	45.9
77.5°	677.3	513.7	409.8	294.6	185.2	112.3	79.6	59.6	48.8	42.2	38.5
80°	420.3	321.0	248.7	176.2	111.0	74.7	58.3	47.4	41.0	35.2	32.2
82.5°	253.4	179.7	140.4	106.4	71.0	53.9	44.9	40.0	34.7	29.6	27.3
85°	185.7	128.6	94.2	65.7	43.9	35.6	31.5	30.5	26.9	22.9	21.5
87.5°	58.4	61.3	63.7	38.8	21.2	16.1	13.7	16.1	15.4	10.8	11.9
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2
2.5°	282.1	282.8	282.2	282.2	281.9	281.7	282.9	282.6	282.9	282.8	283.1
5°	281.1	281.6	281.2	281.6	281.2	281.2	282.8	282.8	283.4	283.8	284.6
7.5°	281.4	281.6	281.4	281.9	281.6	281.2	282.1	282.6	283.8	284.8	285.6
10°	282.6	283.1	282.9	282.9	281.9	281.2	281.7	282.1	283.3	283.8	284.8
12.5°	285.5	284.8	283.4	282.6	280.2	278.9	278.2	277.8	278.7	279.4	279.9
15°	284.8	281.1	278.0	275.5	271.9	269.7	268.0	267.8	268.0	268.2	268.7
17.5°	277.8	272.8	266.7	263.4	259.4	257.0	255.8	255.0	254.8	255.1	256.0
20°	267.8	260.4	253.6	248.0	243.6	239.9	240.7	238.9	239.7	240.2	241.8
22.5°	252.6	242.3	234.5	227.7	222.4	218.5	218.5	216.9	217.2	218.7	220.7
25°	227.9	218.2	207.0	202.3	196.4	193.6	193.1	192.8	194.1	196.0	197.2
27.5°	205.5	192.3	181.3	175.0	168.7	169.4	166.0	168.1	169.6	171.1	172.5
30°	175.3	164.5	154.5	148.2	140.8	141.0	141.5	141.8	143.2	145.2	147.9
32.5°	146.4	134.7	125.4	118.6	114.2	112.8	111.0	114.0	115.7	117.7	120.5
35°	122.5	110.3	102.5	96.6	94.0	92.2	91.7	91.3	92.8	93.9	96.1
37.5°	105.4	97.1	91.3	87.1	84.7	82.7	82.2	81.8	81.7	81.3	82.7
40°	98.4	91.8	86.9	83.0	80.8	79.6	79.1	78.4	77.8	76.9	76.7
42.5°	96.4	89.3	83.5	79.6	77.9	77.8	77.8	77.4	76.7	75.6	74.7
45°	95.6	86.9	80.3	77.3	76.1	76.2	76.2	76.2	75.7	74.5	73.2
47.5°	94.0	84.0	77.3	74.7	74.2	74.5	74.9	74.9	74.5	73.5	72.0
50°	91.1	79.6	72.5	70.1	70.0	70.1	70.1	70.5	70.1	69.3	67.9
52.5°	88.9	76.2	69.0	67.1	67.1	66.9	66.7	66.7	66.6	65.9	64.9
55°	86.9	74.0	67.4	65.9	66.2	66.2	65.9	65.7	65.1	64.2	63.2
57.5°	84.0	71.7	65.9	64.9	65.2	65.1	64.9	64.7	64.0	63.0	61.7
60°	78.9	67.4	62.9	62.2	62.7	62.9	63.5	63.7	63.4	62.2	60.3
62.5°	73.4	62.2	58.8	58.3	58.8	59.3	59.8	59.5	59.5	58.3	56.6
63°	71.5	61.3	57.6	57.6	58.1	58.6	59.0	58.6	58.8	57.4	55.7
65°	67.3	58.3	55.4	55.6	56.1	56.4	56.6	56.6	56.4	55.4	53.9
67.5°	60.1	53.9	52.2	53.0	53.7	53.9	53.9	54.2	53.9	53.2	51.8
70°	53.7	49.6	48.5	49.5	49.8	50.0	50.0	50.0	49.6	49.0	47.8
72.5°	48.8	46.8	46.6	46.4	46.6	46.1	46.1	45.7	44.9	44.4	43.4
75°	43.4	42.4	42.5	42.4	42.0	41.8	41.0	40.7	39.6	39.0	37.6
77.5°	37.3	37.4	37.3	37.4	37.8	37.9	36.8	35.9	35.1	34.4	33.7
80°	31.0	31.3	31.0	31.3	31.5	31.5	30.3	29.0	28.3	28.8	29.0
82.5°	27.6	27.6	26.3	26.6	26.3	25.8	24.9	24.4	23.9	23.5	24.4
85°	21.9	22.0	22.4	22.0	21.3	20.8	20.0	19.3	18.8	19.3	20.5
87.5°	13.0	14.1	13.6	13.6	13.4	13.4	12.7	12.4	11.9	13.9	14.9
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2
2.5°	282.9	283.4	283.6	283.4	283.6	283.9	282.6	283.9	284.1	283.1	283.4
5°	285.3	286.1	287.3	287.3	288.2	288.7	288.0	289.9	290.2	290.0	290.9
7.5°	287.0	288.2	289.7	290.5	292.1	292.7	293.3	295.0	295.3	296.0	296.6
10°	286.8	288.5	289.9	292.2	294.1	295.5	296.5	298.3	299.0	300.0	300.5
12.5°	281.9	283.8	286.3	289.7	293.1	295.3	298.0	300.7	301.7	303.1	303.9
15°	270.9	272.4	276.0	280.4	285.0	290.5	294.4	298.7	300.5	301.9	303.1
17.5°	256.5	257.8	261.1	265.0	271.1	276.5	282.4	288.9	292.1	293.6	294.1
20°	243.1	245.1	246.0	250.6	252.6	258.0	263.1	270.2	274.3	277.0	278.7
22.5°	222.1	223.1	227.5	229.4	230.9	234.3	240.6	246.8	252.3	256.7	258.0
25°	198.9	201.6	204.0	205.5	209.1	209.2	214.3	218.7	225.5	229.7	233.1
27.5°	173.3	177.4	178.7	179.7	182.5	185.7	187.5	191.9	195.8	200.8	206.9
30°	147.6	151.5	154.2	155.7	158.2	161.3	162.6	165.5	170.6	176.0	180.8
32.5°	123.5	127.6	128.9	133.8	134.5	137.4	138.4	143.0	145.9	150.4	156.0
35°	100.0	104.2	108.3	111.0	114.0	113.8	116.6	120.8	123.3	128.1	131.8
37.5°	83.9	86.4	89.3	92.3	95.7	98.3	100.8	102.7	104.7	107.9	111.3
40°	76.7	77.4	78.6	80.5	82.8	84.7	86.6	88.1	89.6	92.2	94.4
42.5°	73.9	73.4	73.4	73.0	73.9	74.9	76.4	76.9	79.3	80.8	81.7
45°	71.8	70.6	69.8	68.8	68.4	68.8	69.6	70.8	72.3	72.8	72.8
47.5°	70.6	68.8	67.4	65.9	65.1	65.1	65.6	66.4	67.3	67.4	67.3
50°	66.6	64.7	63.0	61.7	61.0	61.0	61.2	62.3	62.5	62.2	62.3
52.5°	63.5	61.7	60.0	58.8	57.9	58.1	58.6	59.1	59.6	59.3	59.0
55°	61.7	59.5	57.9	56.6	55.6	55.9	56.4	57.1	57.9	57.4	56.9
57.5°	60.0	58.1	56.2	54.9	53.7	54.0	54.6	55.6	56.6	55.6	54.9
60°	58.4	56.6	54.7	53.4	52.0	52.3	53.0	54.0	54.9	53.5	52.7
62.5°	54.7	53.0	51.7	51.0	50.1	50.7	51.2	52.3	52.0	50.7	49.6
63°	54.0	52.3	51.2	50.5	49.8	50.5	50.7	51.8	51.3	50.0	49.1
65°	52.0	50.7	49.5	48.8	48.1	48.5	48.5	49.0	48.3	47.3	46.6
67.5°	50.1	48.6	47.4	46.1	45.4	45.1	44.9	44.7	44.2	43.7	43.5
70°	46.1	45.1	44.0	42.9	41.8	41.2	40.8	40.5	40.2	40.0	39.8
72.5°	41.7	40.8	39.8	39.1	38.3	37.8	36.9	36.8	36.4	36.1	35.9
75°	36.9	35.9	35.6	34.9	34.4	34.1	33.4	33.2	32.9	32.4	32.2
77.5°	32.7	32.4	31.9	31.7	30.8	30.3	30.0	29.8	29.5	29.1	28.8
80°	29.1	29.0	28.6	28.5	28.0	27.3	26.9	27.1	26.6	26.4	25.9
82.5°	26.3	26.4	26.4	25.9	25.4	24.6	24.2	24.7	24.4	23.7	23.0
85°	22.4	22.2	22.4	22.2	21.2	20.3	20.0	20.3	20.2	19.1	19.0
87.5°	15.9	15.8	15.4	16.4	15.1	12.2	12.5	14.2	13.7	13.2	12.9
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°	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2
2.5°	284.1	283.6	283.9	284.1	283.6	284.8	283.6	283.8	284.1	283.1	282.9
5°	291.6	291.6	292.9	293.1	292.9	294.4	294.3	294.4	294.1	293.9	293.3
7.5°	297.7	298.3	299.4	300.9	301.4	302.6	302.9	303.1	303.8	304.4	304.1
10°	302.1	303.9	304.8	306.3	307.8	308.7	309.5	310.9	311.4	311.9	311.2
12.5°	305.1	307.3	308.7	310.5	312.4	313.8	315.3	317.0	318.7	319.2	318.3
15°	303.6	306.1	308.2	310.2	313.1	315.6	318.5	321.5	323.8	324.6	323.6
17.5°	294.1	296.6	299.7	302.7	305.8	310.5	314.6	319.7	323.2	325.8	326.1
20°	281.1	282.6	287.0	290.0	295.0	300.5	306.6	312.6	316.6	321.2	323.9
22.5°	261.7	264.8	269.7	275.0	279.9	287.2	293.6	301.4	308.3	314.6	320.5
25°	238.2	242.4	248.2	255.5	261.9	269.7	279.0	287.7	299.4	309.2	321.9
27.5°	212.8	220.6	228.5	236.2	243.3	252.1	261.7	271.4	284.8	300.5	317.1
30°	188.7	195.2	205.2	214.0	222.3	233.1	243.1	253.8	266.5	285.1	303.9
32.5°	163.7	168.9	176.7	187.5	197.2	209.9	218.7	231.4	246.2	265.8	287.2
35°	137.7	145.0	151.3	158.7	166.0	178.7	191.9	206.0	223.0	244.0	267.3
37.5°	114.9	119.4	122.5	130.1	136.5	147.4	162.8	179.7	198.4	219.7	244.8
40°	95.9	98.8	102.2	107.2	112.7	122.5	136.7	155.7	175.2	196.5	221.6
42.5°	82.8	84.7	85.0	88.9	94.0	103.7	115.0	132.5	154.0	176.4	201.4
45°	73.9	73.9	73.7	75.4	79.5	87.8	98.1	113.7	134.2	157.6	183.6
47.5°	67.6	68.1	67.9	68.6	71.3	77.4	86.7	100.0	118.6	141.5	167.7
50°	62.9	63.5	63.7	63.9	64.9	70.0	77.9	88.6	105.2	127.1	153.5
52.5°	59.1	59.3	59.3	59.1	59.5	62.3	69.0	78.8	94.2	113.8	139.3
55°	57.1	57.3	57.3	57.3	57.3	59.1	63.9	71.8	84.2	102.7	125.7
57.5°	54.7	54.7	55.1	55.1	55.1	55.7	59.1	65.7	75.2	90.0	110.5
60°	52.7	53.2	53.9	54.0	53.9	53.9	55.6	60.0	66.2	76.9	94.2
62.5°	49.6	50.3	51.2	51.5	51.7	51.3	52.2	54.0	57.8	63.4	75.1
63°	49.1	49.8	50.5	50.8	51.0	50.7	51.3	52.9	55.9	60.5	71.0
65°	46.9	47.8	47.9	48.1	47.9	47.8	47.6	47.6	48.5	50.1	55.7
67.5°	43.9	44.4	44.4	44.7	43.9	43.5	43.2	42.9	42.4	42.5	44.6
70°	40.3	40.7	40.5	40.3	40.0	39.5	39.1	38.6	37.6	37.3	38.3
72.5°	36.3	36.6	36.6	36.6	35.9	35.6	35.2	34.9	34.6	34.9	35.2
75°	32.5	32.5	32.9	32.7	32.2	31.9	31.7	31.5	31.5	31.5	31.3
77.5°	29.0	28.8	28.8	28.3	28.0	27.8	28.1	28.3	28.1	27.8	27.6
80°	25.9	25.1	24.2	23.5	23.4	23.7	24.1	25.1	24.6	24.6	24.2
82.5°	22.0	20.2	19.0	19.1	18.6	18.8	19.1	20.3	20.0	20.2	20.8
85°	17.6	15.9	14.1	14.4	14.4	14.1	14.9	15.2	15.6	16.4	15.8
87.5°	12.4	10.8	9.0	7.8	8.1	8.5	8.8	8.5	7.5	7.8	7.6
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):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2
2.5°	282.6	282.8	282.8	281.6	281.2	281.6	281.4	281.4	280.4	280.6	280.2
5°	292.9	293.3	292.2	291.4	290.2	290.0	289.9	289.2	288.5	287.2	286.5
7.5°	303.9	302.4	302.1	300.5	300.0	298.7	297.7	296.6	295.8	295.1	294.6
10°	310.9	309.7	309.4	306.6	305.8	304.1	303.1	301.9	300.9	299.9	299.7
12.5°	317.1	315.1	313.9	310.2	308.5	306.6	305.8	304.8	304.4	304.3	304.9
15°	322.1	319.2	317.0	313.6	312.2	311.2	311.4	310.9	312.9	314.1	316.3
17.5°	325.3	324.1	323.6	321.0	321.9	321.9	324.3	325.4	329.2	332.2	335.3
20°	327.0	329.2	333.4	334.3	336.3	338.5	342.0	344.1	348.0	352.4	356.6
22.5°	328.5	337.8	346.5	352.9	357.5	362.5	365.1	369.3	372.0	375.3	381.7
25°	337.0	352.6	367.8	376.1	386.9	394.2	400.0	404.2	409.0	411.7	419.0
27.5°	334.6	354.4	374.7	390.0	406.9	420.7	432.9	441.0	447.1	456.9	463.0
30°	323.8	346.8	371.4	393.0	416.8	439.1	460.3	479.3	495.5	508.8	517.7
32.5°	308.3	334.8	363.6	390.3	420.7	450.5	481.0	509.9	537.6	559.4	573.1
35°	291.1	319.5	351.4	383.0	419.5	458.4	499.6	538.6	578.6	613.5	640.9
37.5°	270.0	300.9	335.8	372.5	414.4	461.1	513.0	566.0	617.0	669.9	708.5
40°	248.0	278.2	314.4	356.4	404.7	459.8	523.3	592.1	666.0	734.1	792.9
42.5°	229.2	258.7	296.6	338.2	390.2	454.7	530.3	615.5	706.5	794.7	872.8
45°	210.8	242.3	280.6	324.4	381.2	452.7	539.2	635.8	739.7	844.4	944.0
47.5°	196.2	227.4	266.0	313.1	373.9	451.5	547.7	654.8	766.8	881.3	999.4
50°	182.3	212.1	249.7	299.4	366.3	449.6	552.8	669.9	787.9	910.3	1038.7
52.5°	168.1	199.1	235.7	283.8	356.3	445.9	554.3	681.7	809.8	938.1	1075.4
55°	153.7	184.7	221.3	271.1	342.7	438.6	553.1	690.4	832.7	967.4	1109.0
57.5°	136.0	166.5	204.8	255.0	325.3	424.0	547.4	694.1	846.9	994.8	1142.7
60°	116.2	145.0	181.3	232.4	303.9	403.0	534.5	688.8	853.3	1012.9	1178.5
62.5°	91.3	116.4	149.8	200.6	272.9	372.7	506.4	665.6	837.8	1008.4	1193.9
63°	85.7	110.0	144.3	192.1	263.8	362.2	498.1	657.7	830.8	1004.1	1192.0
65°	65.4	83.4	111.8	154.5	223.0	313.8	454.4	612.6	787.1	961.9	1162.7
67.5°	48.3	57.6	75.1	103.7	156.9	244.1	372.4	529.1	694.3	858.6	1062.9
70°	40.0	43.5	51.7	66.4	97.1	162.0	263.1	402.7	558.1	699.5	884.0
72.5°	35.7	38.3	42.0	48.6	61.3	95.0	171.1	261.4	388.6	511.0	666.8
75°	32.0	33.7	36.8	40.7	46.4	59.5	90.5	155.0	237.5	344.3	457.4
77.5°	28.1	29.8	32.9	35.9	39.6	45.2	56.1	88.3	142.1	200.9	280.7
80°	24.4	25.2	27.8	32.2	34.9	39.5	43.0	55.2	77.4	105.2	149.6
82.5°	20.2	20.3	22.0	25.4	28.8	30.5	31.5	34.7	44.6	55.6	73.4
85°	14.4	13.7	14.7	16.1	18.8	17.3	18.5	19.5	23.7	28.6	52.5
87.5°	6.4	5.1	5.9	6.6	5.9	4.1	5.9	4.9	6.1	12.0	13.6
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°	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	280.2	0°
2.5°	280.6	279.5	279.5	279.4	279.5	279.2	278.5	278.5	279.0	278.9	278.9	2.5°
5°	286.5	285.1	284.8	284.6	284.6	283.8	282.8	282.2	282.1	281.4	280.9	5°
7.5°	294.3	293.4	293.9	292.9	292.6	292.4	291.1	290.0	288.5	287.8	285.3	7.5°
10°	300.7	300.2	301.6	301.4	301.6	301.6	299.7	298.7	296.5	295.3	292.1	10°
12.5°	306.3	306.6	309.2	309.2	309.7	310.4	309.4	307.1	306.3	305.1	301.7	12.5°
15°	320.5	321.9	323.8	326.8	327.6	327.8	328.7	326.8	324.6	321.5	317.5	15°
17.5°	339.8	342.6	348.8	353.2	354.1	354.9	354.4	354.1	350.0	347.5	343.2	17.5°
20°	364.1	370.7	379.5	385.6	388.3	388.6	392.0	389.7	385.9	380.8	374.7	20°
22.5°	391.2	402.2	413.4	422.4	427.6	430.0	433.5	430.1	425.2	422.2	414.1	22.5°
25°	428.3	440.3	453.2	460.3	473.7	477.6	479.6	478.6	473.5	475.7	468.3	25°
27.5°	479.1	489.4	507.6	516.5	529.1	536.4	534.8	543.3	544.8	550.1	550.9	27.5°
30°	534.5	551.6	576.0	594.1	613.3	625.7	635.5	642.9	651.6	666.1	674.9	30°
32.5°	594.3	619.0	650.2	688.7	729.3	762.5	800.0	806.4	825.7	820.1	816.4	32.5°
35°	660.9	692.1	732.0	782.5	841.7	896.5	932.6	950.8	958.4	962.6	936.9	35°
37.5°	750.0	792.2	836.7	891.8	937.0	988.4	1029.9	1074.9	1095.6	1085.8	1036.5	37.5°
40°	848.8	888.2	948.6	993.6	1047.0	1131.5	1187.8	1242.0	1258.9	1226.2	1149.0	40°
42.5°	947.9	1002.1	1067.5	1131.5	1192.9	1269.4	1344.0	1397.5	1416.1	1360.2	1268.6	42.5°
45°	1036.1	1105.6	1182.5	1248.3	1334.0	1434.1	1525.4	1568.4	1565.1	1475.3	1372.1	45°
47.5°	1113.1	1203.2	1289.9	1378.5	1464.9	1577.9	1668.4	1717.9	1682.8	1588.4	1471.5	47.5°
50°	1176.6	1285.5	1390.2	1492.0	1598.1	1718.2	1805.5	1851.2	1797.8	1678.4	1547.8	50°
52.5°	1224.9	1359.9	1480.5	1594.4	1721.1	1850.9	1928.5	1956.1	1872.9	1748.0	1604.9	52.5°
55°	1270.4	1423.1	1556.6	1685.8	1843.6	1960.0	2032.6	2027.6	1920.2	1778.4	1640.6	55°
57.5°	1304.8	1477.0	1619.1	1766.3	1936.2	2060.6	2102.6	2069.1	1939.8	1787.3	1651.0	57.5°
60°	1348.2	1519.0	1674.7	1839.0	2024.3	2129.5	2135.1	2075.0	1934.2	1770.4	1636.4	60°
62.5°	1376.0	1545.2	1710.1	1888.8	2091.4	2168.3	2128.4	2049.4	1902.0	1728.5	1603.0	62.5°
63°	1378.7	1547.8	1713.0	1893.7	2100.9	2170.0	2122.1	2037.9	1892.5	1717.0	1594.2	63°
65°	1366.5	1540.5	1699.7	1884.9	2103.3	2150.0	2076.2	1990.6	1840.2	1658.2	1542.4	65°
67.5°	1281.3	1462.2	1614.2	1787.8	2011.8	2037.7	1963.7	1870.7	1729.4	1531.5	1429.0	67.5°
70°	1128.6	1300.6	1408.3	1569.6	1766.7	1797.7	1731.4	1659.4	1533.9	1368.5	1283.5	70°
72.5°	909.3	1078.2	1142.9	1266.4	1422.9	1416.1	1369.6	1360.6	1294.5	1155.7	1104.6	72.5°
75°	679.7	840.5	867.7	918.1	1005.5	1003.3	1014.1	1052.7	1085.8	1003.8	938.2	75°
77.5°	448.3	608.2	625.1	683.8	708.0	774.4	852.3	949.4	997.5	964.0	883.5	77.5°
80°	248.0	416.1	412.7	435.6	478.4	575.0	693.1	837.2	933.5	909.4	821.3	80°
82.5°	128.9	262.9	259.0	263.1	302.9	384.1	473.9	591.8	691.2	693.4	663.8	82.5°
85°	95.9	188.7	199.9	209.1	235.5	263.8	280.2	318.0	372.5	423.4	441.5	85°
87.5°	35.2	113.3	141.1	151.6	152.3	148.7	121.1	133.3	121.3	143.5	200.4	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°
280.2	280.2	280.2	280.2	280.2	280.2	280.2
279.2	279.2	279.0	279.4	279.5	280.0	279.9
280.4	279.9	279.4	279.0	278.7	278.9	278.5
283.4	281.7	280.4	279.2	278.2	278.0	277.0
290.2	287.2	284.6	282.8	280.7	279.7	277.8
298.8	295.5	292.2	289.5	287.2	285.8	284.4
313.9	309.0	305.1	302.2	299.9	298.3	297.0
336.3	330.2	324.3	318.7	318.0	314.4	314.4
367.1	358.8	351.2	346.5	344.3	339.5	339.5
409.8	401.7	390.3	384.6	385.1	381.0	382.9
465.0	458.3	446.6	444.2	444.2	439.8	433.2
547.9	545.5	532.6	535.9	529.1	512.7	494.9
670.9	670.9	646.0	628.0	612.4	586.9	555.5
794.0	778.0	739.8	709.3	677.0	637.8	597.5
898.1	855.2	816.6	779.3	730.7	688.7	632.1
985.8	945.2	900.9	844.2	787.1	728.5	655.8
1094.6	1045.1	978.7	907.4	837.2	756.6	672.4
1194.0	1132.0	1048.2	957.9	868.6	778.6	680.4
1287.6	1207.6	1104.1	995.7	894.0	792.2	683.8
1375.7	1268.4	1148.0	1022.6	911.5	799.5	682.9
1433.8	1313.0	1175.6	1038.9	922.0	802.0	680.5
1470.2	1340.2	1191.8	1047.8	927.2	802.5	680.4
1490.7	1355.7	1200.6	1054.1	933.0	805.6	684.4
1506.6	1367.9	1210.5	1064.8	946.7	819.8	700.9
1521.7	1399.9	1236.1	1084.4	970.6	846.4	737.0
1528.0	1460.7	1288.1	1120.7	1004.0	889.1	793.2
1527.4	1472.2	1303.1	1130.7	1012.8	900.4	807.6
1509.0	1508.8	1371.8	1178.5	1053.8	953.0	867.7
1454.3	1527.1	1447.7	1241.5	1117.5	1039.5	958.2
1367.7	1504.9	1458.0	1258.1	1162.7	1119.0	1018.5
1218.6	1398.9	1361.3	1187.3	1147.3	1134.6	1020.0
985.7	1124.6	1108.5	1014.3	1029.0	1055.1	911.1
794.0	789.6	787.3	753.1	815.7	868.8	677.3
663.3	546.4	507.4	494.2	597.5	638.2	420.3
620.1	490.8	393.7	377.1	447.8	469.4	253.4
473.9	476.6	412.5	353.6	348.3	318.8	185.7
231.9	235.8	249.2	227.5	195.2	164.5	58.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)