

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: P146018

Luminaire Tested: **LDRL-SLR-E01-E-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146018
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-8030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2273.2 lumens
Efficiency: N/A
Efficacy: 92.0 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

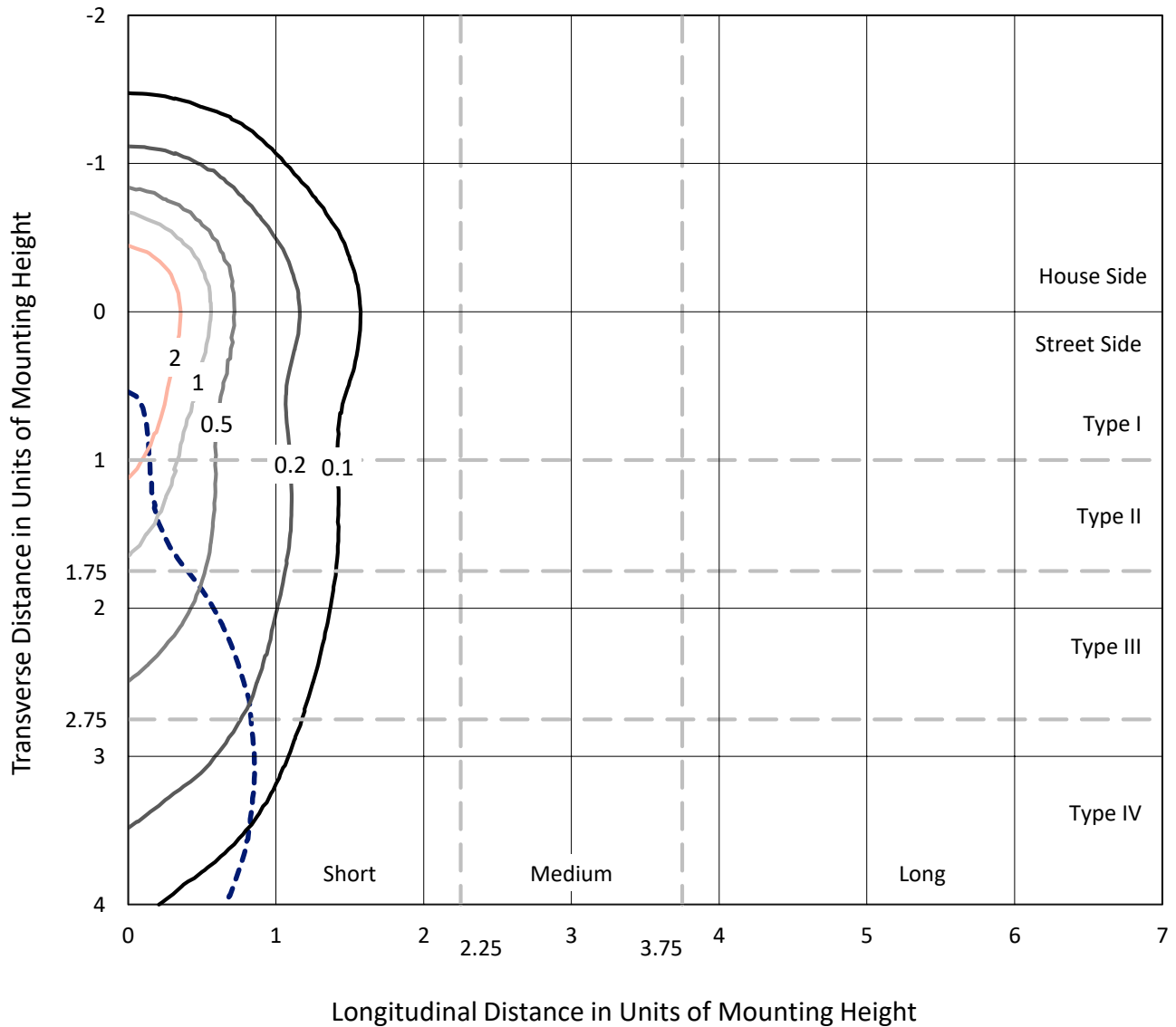
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

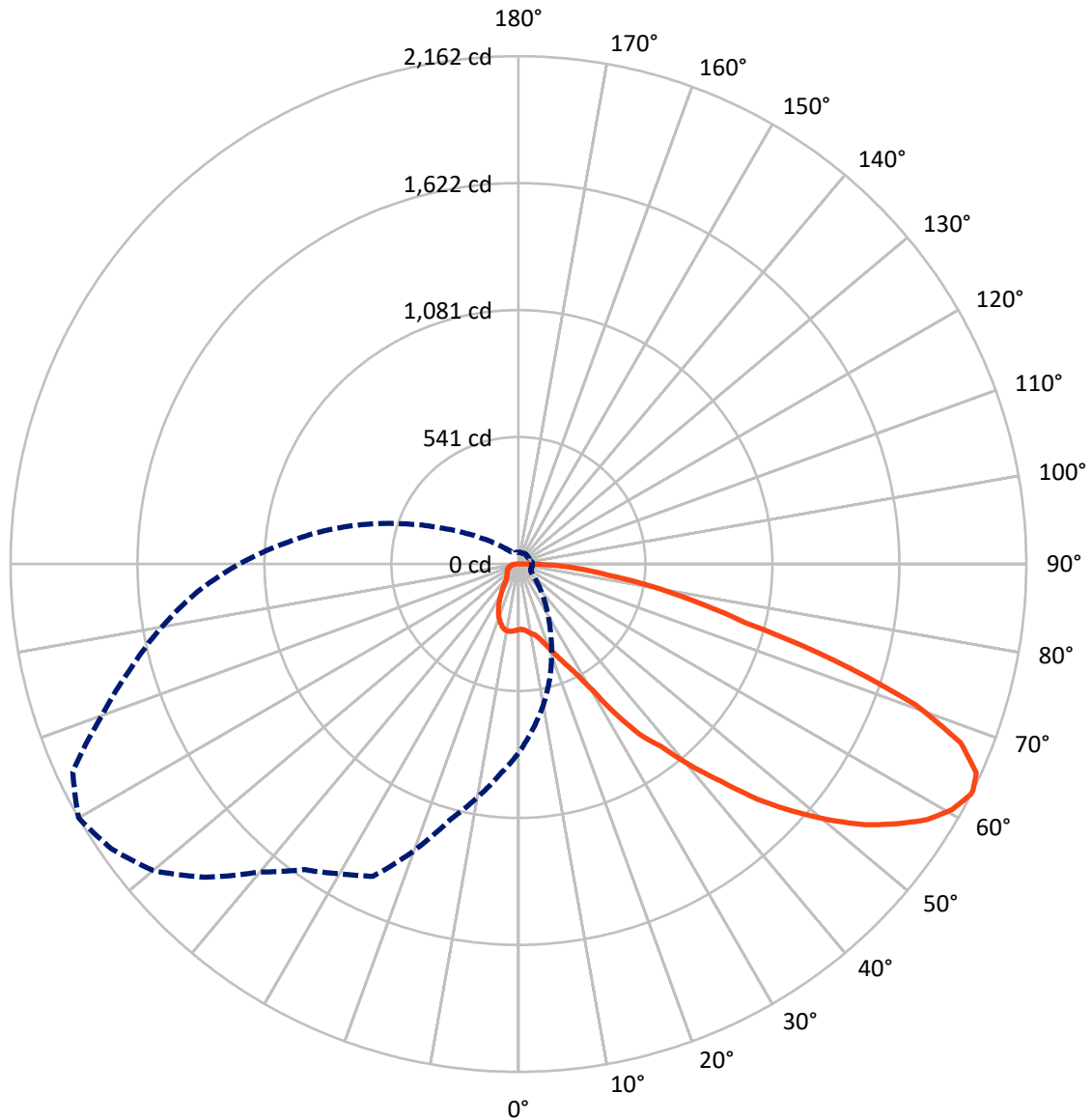
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.6 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	475.9	0.0	475.9
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	1797.4	0.0	1797.4
	% Fixture	79.1	0.0	79.1
Total	Lumens	2273.2	0.0	2273.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.4	1.2
10°-20°	85.6	3.8
20°-30°	151.3	6.7
30°-40°	238.9	10.5
40°-50°	351.3	15.5
50°-60°	462.8	20.4
60°-70°	515.8	22.7
70°-80°	338.9	14.9
80°-90°	101.1	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°	2273.2	100.0
0°-180°	2273.2	100.0

Coefficient of Utilization



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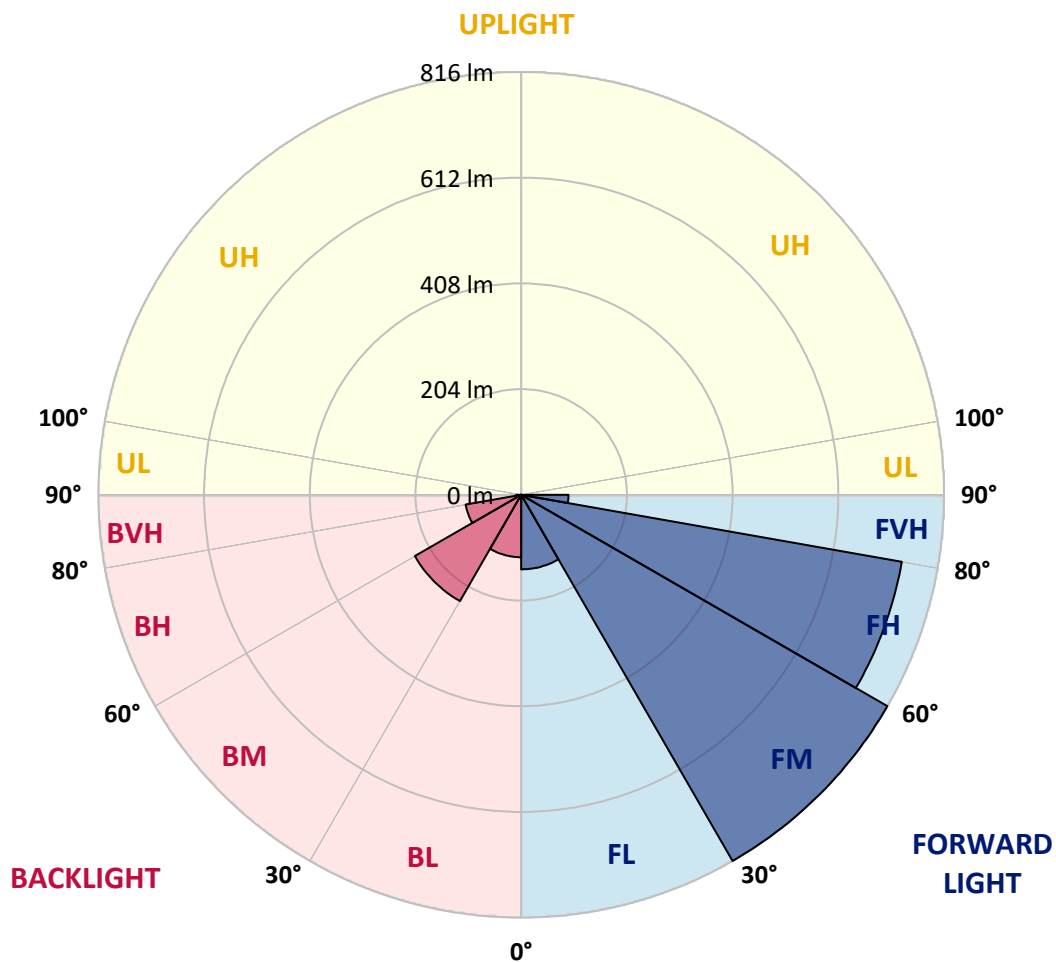
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	143.9	6.3			
FM	(30°-60°)	816.2	35.9			
FH	(60°-80°)	746.0	32.8			G1/1800
FVH	(80°-90°)	91.3	4.0			G1/100
BL	(0°-30°)	120.5	5.3	B1/500		
BM	(30°-60°)	236.9	10.4	B1/1000		
BH	(60°-80°)	108.8	4.8	B0/110		G0/110
BVH	(80°-90°)	9.7	0.4			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2
2.5°	278.9	279.4	279.4	278.9	279.4	279.2	279.2	279.7	279.9	280.7	280.2
5°	277.5	277.7	277.8	277.5	277.7	277.7	278.0	278.5	278.7	279.7	279.2
7.5°	276.0	276.3	275.6	275.8	276.3	277.0	277.0	277.7	278.9	279.4	279.2
10°	276.8	276.5	276.0	275.8	276.2	276.3	276.7	277.8	278.9	279.4	280.2
12.5°	283.4	282.4	281.9	281.7	281.9	281.6	282.7	283.1	283.4	284.1	283.7
15°	295.9	294.6	293.7	292.9	294.7	293.9	293.9	292.9	291.2	288.6	285.4
17.5°	313.3	311.8	311.1	310.8	310.9	309.4	306.4	301.5	295.6	288.8	282.6
20°	338.3	340.6	339.6	335.1	333.4	326.6	317.0	306.9	296.6	285.8	275.5
22.5°	381.5	380.1	375.6	364.3	354.1	338.9	321.7	305.4	290.2	274.5	261.0
25°	431.6	420.3	407.5	385.2	361.9	336.9	312.1	292.7	272.4	255.2	239.0
27.5°	493.1	468.6	435.8	399.5	364.8	331.5	302.1	276.5	253.4	235.0	216.9
30°	553.5	512.6	467.1	419.0	372.0	327.1	288.3	258.6	231.9	208.3	190.1
32.5°	595.4	545.9	489.2	429.8	372.7	320.0	273.1	237.7	207.6	183.8	161.9
35°	629.8	568.0	496.9	428.1	361.9	303.5	251.3	212.0	180.1	155.5	136.2
37.5°	653.4	579.3	496.4	418.3	342.7	277.2	226.4	186.4	156.6	133.7	116.0
40°	670.0	582.9	489.9	401.6	320.5	251.7	199.7	163.2	137.2	119.3	106.5
42.5°	677.9	580.5	480.1	385.7	298.6	231.1	179.6	147.7	126.6	113.1	103.6
45°	681.3	574.8	469.1	370.2	280.7	213.4	169.3	143.0	126.4	114.8	104.5
47.5°	680.4	568.5	459.3	357.3	270.1	208.6	171.3	149.4	132.7	118.2	105.0
50°	678.1	562.8	453.1	352.6	269.9	215.7	182.6	160.2	139.9	121.2	104.5
52.5°	677.9	562.3	456.4	358.2	279.7	231.8	199.7	172.7	147.0	124.6	104.7
55°	681.9	571.4	470.8	373.2	303.3	254.2	218.9	186.0	155.0	126.9	104.1
57.5°	698.3	594.2	498.0	406.8	333.7	281.6	237.5	196.0	158.0	126.3	101.8
60°	734.3	634.2	539.8	454.2	372.7	306.5	248.5	199.4	156.6	122.2	96.7
62.5°	790.3	692.1	597.2	500.8	407.3	321.6	251.0	196.6	151.2	115.5	90.5
63°	804.7	705.4	608.9	510.4	413.2	323.1	250.8	195.6	149.7	113.8	89.0
65°	864.6	762.6	655.6	542.2	429.1	326.1	247.0	189.2	143.0	105.8	82.0
67.5°	954.7	825.8	702.0	571.7	437.9	320.7	234.8	173.4	125.6	92.0	71.7
70°	1014.8	867.6	729.7	581.3	427.6	296.1	206.9	145.3	102.6	75.8	61.3
72.5°	1016.3	830.1	692.2	531.4	369.2	244.3	162.0	109.9	79.8	61.6	52.8
75°	907.8	701.5	565.8	436.3	284.1	172.7	113.9	80.2	61.3	50.8	45.7
77.5°	674.9	511.8	408.3	293.5	184.5	111.9	79.3	59.4	48.6	42.0	38.3
80°	418.8	319.9	247.8	175.6	110.6	74.4	58.1	47.3	40.8	35.1	32.1
82.5°	252.5	179.1	139.9	106.0	70.7	53.7	44.7	39.8	34.6	29.5	27.2
85°	185.0	128.1	93.9	65.5	43.7	35.4	31.4	30.4	26.8	22.8	21.4
87.5°	58.2	61.1	63.5	38.7	21.1	16.0	13.7	16.0	15.4	10.8	11.8
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°	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2
2.5°	281.0	281.7	281.2	281.2	280.9	280.7	281.9	281.6	281.9	281.7	282.1
5°	280.0	280.5	280.2	280.5	280.2	280.2	281.7	281.7	282.4	282.7	283.6
7.5°	280.4	280.5	280.4	280.9	280.5	280.2	281.0	281.6	282.7	283.7	284.6
10°	281.6	282.1	281.9	281.9	280.9	280.2	280.7	281.0	282.2	282.7	283.7
12.5°	284.4	283.7	282.4	281.6	279.2	277.8	277.2	276.8	277.7	278.3	278.9
15°	283.7	280.0	277.0	274.5	270.9	268.7	267.0	266.9	267.0	267.2	267.7
17.5°	276.8	271.8	265.7	262.5	258.4	256.1	254.9	254.0	253.9	254.2	255.1
20°	266.9	259.4	252.7	247.1	242.7	239.0	239.9	238.0	238.8	239.4	240.9
22.5°	251.7	241.4	233.6	226.9	221.6	217.7	217.7	216.1	216.4	217.9	219.9
25°	227.0	217.4	206.3	201.5	195.6	192.9	192.4	192.1	193.4	195.3	196.5
27.5°	204.8	191.6	180.6	174.4	168.1	168.8	165.4	167.4	169.0	170.5	171.8
30°	174.7	163.9	153.9	147.7	140.3	140.4	140.9	141.3	142.6	144.7	147.4
32.5°	145.8	134.2	124.9	118.2	113.8	112.4	110.6	113.6	115.3	117.3	120.0
35°	122.0	109.9	102.1	96.2	93.7	91.8	91.3	91.0	92.5	93.5	95.7
37.5°	105.0	96.7	91.0	86.8	84.4	82.4	81.9	81.5	81.4	81.0	82.4
40°	98.1	91.5	86.6	82.7	80.5	79.3	78.8	78.2	77.5	76.6	76.5
42.5°	96.0	89.0	83.2	79.3	77.6	77.5	77.5	77.1	76.5	75.3	74.4
45°	95.2	86.6	80.0	77.0	75.8	76.0	76.0	76.0	75.5	74.3	72.9
47.5°	93.7	83.7	77.0	74.4	73.9	74.3	74.6	74.6	74.3	73.3	71.7
50°	90.8	79.3	72.2	69.9	69.7	69.9	69.9	70.2	69.9	69.0	67.7
52.5°	88.6	76.0	68.7	66.8	66.8	66.7	66.5	66.5	66.3	65.7	64.6
55°	86.6	73.8	67.2	65.7	66.0	66.0	65.7	65.5	64.8	64.0	63.0
57.5°	83.7	71.4	65.7	64.6	65.0	64.8	64.6	64.5	63.8	62.8	61.4
60°	78.7	67.2	62.6	61.9	62.5	62.6	63.3	63.5	63.1	61.9	60.1
62.5°	73.1	61.9	58.6	58.1	58.6	59.1	59.6	59.2	59.2	58.1	56.4
63°	71.2	61.1	57.4	57.4	57.9	58.4	58.7	58.4	58.6	57.2	55.5
65°	67.0	58.1	55.2	55.4	55.9	56.2	56.4	56.4	56.2	55.2	53.7
67.5°	59.9	53.7	52.0	52.8	53.5	53.7	53.7	54.0	53.7	53.0	51.7
70°	53.5	49.5	48.3	49.3	49.6	49.8	49.8	49.8	49.5	48.8	47.6
72.5°	48.6	46.6	46.4	46.3	46.4	45.9	45.9	45.6	44.7	44.2	43.2
75°	43.2	42.2	42.4	42.2	41.9	41.7	40.8	40.5	39.5	38.8	37.5
77.5°	37.1	37.3	37.1	37.3	37.6	37.8	36.6	35.8	34.9	34.3	33.6
80°	30.9	31.2	30.9	31.2	31.4	31.4	30.2	28.9	28.2	28.7	28.9
82.5°	27.5	27.5	26.2	26.5	26.2	25.7	24.8	24.3	23.8	23.5	24.3
85°	21.8	21.9	22.3	21.9	21.3	20.8	19.9	19.2	18.7	19.2	20.4
87.5°	13.0	14.0	13.5	13.5	13.3	13.3	12.7	12.3	11.8	13.8	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°	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2
2.5°	281.9	282.4	282.6	282.4	282.6	282.9	281.6	282.9	283.1	282.1	282.4
5°	284.3	285.1	286.3	286.3	287.1	287.6	287.0	288.8	289.2	289.0	289.8
7.5°	285.9	287.1	288.6	289.5	291.0	291.7	292.2	293.9	294.2	294.9	295.6
10°	285.8	287.5	288.8	291.2	293.0	294.4	295.4	297.3	297.9	298.9	299.4
12.5°	280.9	282.7	285.3	288.6	292.0	294.2	296.9	299.6	300.6	302.0	302.8
15°	269.9	271.4	275.0	279.4	283.9	289.5	293.4	297.6	299.4	300.8	302.0
17.5°	255.6	256.9	260.1	264.0	270.1	275.5	281.4	287.8	291.0	292.5	293.0
20°	242.2	244.3	245.1	249.7	251.7	257.1	262.1	269.2	273.3	276.0	277.7
22.5°	221.3	222.3	226.7	228.6	230.1	233.4	239.7	245.9	251.3	255.7	257.1
25°	198.2	200.9	203.2	204.8	208.3	208.5	213.5	217.9	224.7	228.9	232.3
27.5°	172.7	176.7	178.1	179.1	181.8	185.0	186.9	191.2	195.1	200.0	206.1
30°	147.0	150.9	153.6	155.1	157.7	160.7	162.0	164.9	170.0	175.4	180.1
32.5°	123.1	127.1	128.5	133.4	134.0	136.9	137.9	142.5	145.3	149.9	155.5
35°	99.6	103.8	107.9	110.6	113.6	113.4	116.1	120.4	122.9	127.6	131.3
37.5°	83.6	86.1	89.0	92.0	95.4	97.9	100.4	102.3	104.3	107.5	110.9
40°	76.5	77.1	78.3	80.2	82.5	84.4	86.3	87.8	89.3	91.8	94.0
42.5°	73.6	73.1	73.1	72.8	73.6	74.6	76.1	76.6	79.0	80.5	81.4
45°	71.6	70.4	69.5	68.5	68.2	68.5	69.4	70.6	72.1	72.6	72.6
47.5°	70.4	68.5	67.2	65.7	64.8	64.8	65.3	66.2	67.0	67.2	67.0
50°	66.3	64.5	62.8	61.4	60.8	60.8	60.9	62.1	62.3	61.9	62.1
52.5°	63.3	61.4	59.8	58.6	57.7	57.9	58.4	58.9	59.4	59.1	58.7
55°	61.4	59.2	57.7	56.4	55.4	55.7	56.2	56.9	57.7	57.2	56.7
57.5°	59.8	57.9	56.0	54.7	53.5	53.8	54.4	55.4	56.4	55.4	54.7
60°	58.2	56.4	54.5	53.2	51.8	52.2	52.8	53.8	54.7	53.3	52.5
62.5°	54.5	52.8	51.5	50.8	50.0	50.5	51.0	52.2	51.8	50.5	49.5
63°	53.8	52.2	51.0	50.3	49.6	50.3	50.5	51.7	51.1	49.8	49.0
65°	51.8	50.5	49.3	48.6	47.9	48.3	48.3	48.8	48.1	47.1	46.4
67.5°	50.0	48.4	47.3	45.9	45.2	44.9	44.7	44.6	44.1	43.5	43.4
70°	45.9	44.9	43.9	42.7	41.7	41.0	40.7	40.3	40.0	39.8	39.7
72.5°	41.5	40.7	39.7	39.0	38.1	37.6	36.8	36.6	36.3	36.0	35.8
75°	36.8	35.8	35.4	34.8	34.3	33.9	33.3	33.1	32.7	32.2	32.1
77.5°	32.6	32.2	31.7	31.6	30.7	30.2	29.9	29.7	29.4	29.0	28.7
80°	29.0	28.9	28.5	28.4	27.9	27.2	26.8	27.0	26.5	26.3	25.8
82.5°	26.2	26.3	26.3	25.8	25.3	24.5	24.1	24.6	24.3	23.6	23.0
85°	22.3	22.1	22.3	22.1	21.1	20.3	19.9	20.3	20.1	19.1	18.9
87.5°	15.9	15.7	15.4	16.4	15.0	12.2	12.5	14.2	13.7	13.2	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):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2
2.5°	283.1	282.6	282.9	283.1	282.6	283.7	282.6	282.7	283.1	282.1	281.9
5°	290.5	290.5	291.9	292.0	291.9	293.4	293.2	293.4	293.0	292.9	292.2
7.5°	296.6	297.3	298.3	299.8	300.3	301.5	301.8	302.0	302.7	303.3	303.0
10°	301.0	302.8	303.7	305.2	306.7	307.6	308.4	309.7	310.3	310.8	310.1
12.5°	304.0	306.2	307.6	309.4	311.3	312.6	314.1	315.8	317.5	318.0	317.2
15°	302.5	305.0	307.0	309.1	311.9	314.5	317.3	320.4	322.6	323.4	322.4
17.5°	293.0	295.6	298.6	301.6	304.7	309.4	313.5	318.5	322.1	324.6	324.9
20°	280.0	281.6	285.9	289.0	293.9	299.4	305.5	311.4	315.5	320.0	322.7
22.5°	260.8	263.8	268.7	274.0	278.9	286.1	292.5	300.3	307.2	313.5	319.4
25°	237.3	241.6	247.3	254.5	261.0	268.7	278.0	286.6	298.3	308.1	320.7
27.5°	212.0	219.8	227.7	235.3	242.4	251.2	260.8	270.4	283.7	299.4	316.0
30°	188.0	194.5	204.4	213.2	221.5	232.3	242.2	252.9	265.5	284.1	302.8
32.5°	163.1	168.3	176.1	186.9	196.5	209.1	217.9	230.6	245.3	264.8	286.1
35°	137.2	144.5	150.7	158.2	165.4	178.1	191.2	205.3	222.1	243.1	266.4
37.5°	114.4	119.0	122.0	129.6	136.1	146.9	162.2	179.1	197.7	218.9	243.9
40°	95.5	98.4	101.8	106.8	112.3	122.0	136.2	155.1	174.5	195.8	220.8
42.5°	82.5	84.4	84.7	88.6	93.7	103.3	114.6	132.0	153.4	175.7	200.7
45°	73.6	73.6	73.4	75.1	79.2	87.4	97.7	113.3	133.7	157.0	183.0
47.5°	67.4	67.9	67.7	68.4	71.1	77.1	86.4	99.6	118.2	140.9	167.1
50°	62.6	63.3	63.5	63.6	64.6	69.7	77.6	88.3	104.8	126.6	152.9
52.5°	58.9	59.1	59.1	58.9	59.2	62.1	68.7	78.5	93.9	113.4	138.8
55°	56.9	57.1	57.1	57.1	57.1	58.9	63.6	71.6	83.9	102.3	125.2
57.5°	54.5	54.5	54.9	54.9	54.9	55.5	58.9	65.5	74.9	89.6	110.1
60°	52.5	53.0	53.7	53.8	53.7	53.7	55.4	59.8	66.0	76.6	93.9
62.5°	49.5	50.1	51.0	51.3	51.5	51.1	52.0	53.8	57.6	63.1	74.8
63°	49.0	49.6	50.3	50.6	50.8	50.5	51.1	52.7	55.7	60.3	70.7
65°	46.8	47.6	47.8	47.9	47.8	47.6	47.4	47.4	48.3	50.0	55.5
67.5°	43.7	44.2	44.2	44.6	43.7	43.4	43.0	42.7	42.2	42.4	44.4
70°	40.2	40.5	40.3	40.2	39.8	39.3	39.0	38.5	37.5	37.1	38.1
72.5°	36.1	36.5	36.5	36.5	35.8	35.4	35.1	34.8	34.4	34.8	35.1
75°	32.4	32.4	32.7	32.6	32.1	31.7	31.6	31.4	31.4	31.4	31.2
77.5°	28.9	28.7	28.7	28.2	27.9	27.7	28.0	28.2	28.0	27.7	27.5
80°	25.8	25.0	24.1	23.5	23.3	23.6	24.0	25.0	24.5	24.5	24.1
82.5°	21.9	20.1	18.9	19.1	18.6	18.7	19.1	20.3	19.9	20.1	20.8
85°	17.6	15.9	14.0	14.3	14.3	14.0	14.9	15.2	15.5	16.4	15.7
87.5°	12.3	10.8	8.9	7.8	8.1	8.4	8.8	8.4	7.4	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°	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2
2.5°	281.6	281.7	281.7	280.5	280.2	280.5	280.4	280.4	279.4	279.5	279.2
5°	291.9	292.2	291.2	290.3	289.2	289.0	288.8	288.1	287.5	286.1	285.4
7.5°	302.8	301.3	301.0	299.4	298.9	297.6	296.6	295.6	294.7	294.0	293.5
10°	309.7	308.6	308.2	305.5	304.7	303.0	302.0	300.8	299.8	298.8	298.6
12.5°	316.0	314.0	312.8	309.1	307.4	305.5	304.7	303.7	303.3	303.2	303.8
15°	320.9	318.0	315.8	312.4	311.1	310.1	310.3	309.7	311.8	313.0	315.1
17.5°	324.1	322.9	322.4	319.9	320.7	320.7	323.1	324.3	328.0	331.0	334.1
20°	325.8	328.0	332.2	333.0	335.1	337.3	340.8	342.8	346.7	351.1	355.3
22.5°	327.3	336.6	345.2	351.6	356.2	361.2	363.8	368.0	370.7	373.9	380.3
25°	335.7	351.3	366.5	374.7	385.5	392.8	398.5	402.8	407.5	410.2	417.4
27.5°	333.4	353.1	373.4	388.6	405.5	419.1	431.3	439.4	445.5	455.2	461.3
30°	322.6	345.5	370.0	391.6	415.2	437.5	458.6	477.5	493.7	506.9	515.8
32.5°	307.2	333.5	362.2	388.9	419.1	448.8	479.2	508.1	535.6	557.4	571.0
35°	290.0	318.4	350.1	381.7	417.9	456.8	497.8	536.6	576.4	611.2	638.6
37.5°	269.1	299.8	334.6	371.2	412.9	459.5	511.1	564.0	614.8	667.4	705.9
40°	247.1	277.2	313.3	355.2	403.3	458.1	521.4	589.9	663.5	731.4	790.0
42.5°	228.4	257.8	295.6	336.9	388.7	453.1	528.3	613.2	703.9	791.8	869.6
45°	210.0	241.4	279.5	323.2	379.8	451.0	537.3	633.5	737.0	841.3	940.5
47.5°	195.5	226.5	265.0	311.9	372.5	449.8	545.7	652.4	764.0	878.1	995.7
50°	181.6	211.3	248.8	298.3	364.9	448.0	550.8	667.4	785.1	907.0	1034.9
52.5°	167.4	198.3	234.8	282.7	355.0	444.3	552.3	679.2	806.9	934.6	1071.5
55°	153.1	184.0	220.5	270.1	341.5	437.0	551.1	687.9	829.6	963.8	1105.0
57.5°	135.5	165.9	204.1	254.0	324.1	422.5	545.4	691.6	843.8	991.2	1138.5
60°	115.8	144.5	180.6	231.6	302.8	401.6	532.6	686.3	850.2	1009.2	1174.2
62.5°	91.0	116.0	149.2	199.9	271.9	371.4	504.5	663.2	834.7	1004.7	1189.5
63°	85.4	109.6	143.8	191.4	262.8	360.9	496.3	655.3	827.8	1000.5	1187.7
65°	65.2	83.0	111.4	153.9	222.1	312.6	452.7	610.4	784.2	958.4	1158.5
67.5°	48.1	57.4	74.8	103.3	156.3	243.2	371.0	527.2	691.7	855.5	1059.0
70°	39.8	43.4	51.5	66.2	96.7	161.4	262.1	401.2	556.0	697.0	880.8
72.5°	35.6	38.1	41.9	48.4	61.1	94.7	170.5	260.5	387.2	509.1	664.4
75°	31.9	33.6	36.6	40.5	46.3	59.2	90.1	154.5	236.7	343.0	455.8
77.5°	28.0	29.7	32.7	35.8	39.5	45.1	55.9	87.9	141.6	200.2	279.7
80°	24.3	25.2	27.7	32.1	34.8	39.3	42.9	55.0	77.1	104.8	149.0
82.5°	20.1	20.3	21.9	25.3	28.7	30.4	31.4	34.6	44.4	55.4	73.1
85°	14.3	13.7	14.7	16.0	18.7	17.2	18.4	19.4	23.6	28.5	52.3
87.5°	6.4	5.1	5.9	6.6	5.9	4.1	5.9	4.9	6.1	12.0	13.5
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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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	0°
2.5°	279.5	278.5	278.5	278.3	278.5	278.2	277.5	277.5	278.0	277.8	277.8	2.5°
5°	285.4	284.1	283.7	283.6	283.6	282.7	281.7	281.2	281.0	280.4	279.9	5°
7.5°	293.2	292.4	292.9	291.9	291.5	291.3	290.0	289.0	287.5	286.8	284.3	7.5°
10°	299.6	299.1	300.5	300.3	300.5	300.5	298.6	297.6	295.4	294.2	291.0	10°
12.5°	305.2	305.5	308.1	308.1	308.6	309.2	308.2	306.0	305.2	304.0	300.6	12.5°
15°	319.4	320.7	322.6	325.6	326.5	326.6	327.5	325.6	323.4	320.4	316.3	15°
17.5°	338.6	341.3	347.6	351.9	352.8	353.6	353.1	352.8	348.7	346.2	342.0	17.5°
20°	362.7	369.3	378.1	384.2	386.9	387.2	390.6	388.2	384.5	379.5	373.4	20°
22.5°	389.8	400.7	411.9	420.8	426.0	428.4	432.0	428.6	423.7	420.6	412.5	22.5°
25°	426.7	438.7	451.5	458.6	472.0	475.8	477.9	476.9	471.8	474.0	466.6	25°
27.5°	477.4	487.7	505.7	514.7	527.2	534.4	532.9	541.3	542.9	548.1	548.9	27.5°
30°	532.6	549.6	573.9	592.0	611.0	623.4	633.2	640.6	649.2	663.7	672.5	30°
32.5°	592.1	616.8	647.8	686.2	726.7	759.8	797.1	803.5	822.7	817.2	813.4	32.5°
35°	658.5	689.5	729.4	779.7	838.6	893.3	929.2	947.3	954.9	959.1	933.5	35°
37.5°	747.3	789.3	833.7	888.6	933.6	984.8	1026.1	1071.0	1091.6	1081.8	1032.7	37.5°
40°	845.7	885.0	945.1	990.0	1043.2	1127.4	1183.4	1237.5	1254.3	1221.8	1144.8	40°
42.5°	944.4	998.4	1063.6	1127.4	1188.5	1264.8	1339.1	1392.4	1411.0	1355.3	1264.0	42.5°
45°	1032.4	1101.6	1178.2	1243.7	1329.1	1428.9	1519.9	1562.7	1559.4	1469.9	1367.1	45°
47.5°	1109.0	1198.8	1285.2	1373.5	1459.6	1572.2	1662.3	1711.6	1676.7	1582.7	1466.2	47.5°
50°	1172.3	1280.8	1385.2	1486.6	1592.3	1712.0	1798.9	1844.5	1791.3	1672.3	1542.1	50°
52.5°	1220.4	1354.9	1475.1	1588.6	1714.8	1844.1	1921.4	1948.9	1866.1	1741.7	1599.0	52.5°
55°	1265.8	1417.9	1550.9	1679.7	1836.9	1952.8	2025.2	2020.2	1913.2	1771.9	1634.6	55°
57.5°	1300.1	1471.6	1613.2	1759.9	1929.2	2053.1	2095.0	2061.5	1932.7	1780.8	1644.9	57.5°
60°	1343.3	1513.4	1668.6	1832.3	2017.0	2121.8	2127.4	2067.4	1927.2	1763.9	1630.4	60°
62.5°	1371.0	1539.6	1703.8	1881.9	2083.8	2160.4	2120.6	2042.0	1895.1	1722.2	1597.2	62.5°
63°	1373.7	1542.1	1706.7	1886.8	2093.3	2162.1	2114.4	2030.5	1885.6	1710.8	1588.4	63°
65°	1361.5	1534.9	1693.6	1878.0	2095.6	2142.2	2068.6	1983.4	1833.5	1652.2	1536.7	65°
67.5°	1276.6	1456.9	1608.3	1781.3	2004.5	2030.3	1956.5	1863.9	1723.1	1525.9	1423.8	67.5°
70°	1124.5	1295.9	1403.2	1563.9	1760.2	1791.1	1725.1	1653.4	1528.3	1363.6	1278.8	70°
72.5°	905.9	1074.2	1138.7	1261.8	1417.7	1411.0	1364.6	1355.6	1289.8	1151.5	1100.6	72.5°
75°	677.2	837.4	864.6	914.7	1001.8	999.6	1010.4	1048.9	1081.8	1000.1	934.8	75°
77.5°	446.6	606.0	622.9	681.3	705.4	771.6	849.2	945.9	993.9	960.5	880.3	77.5°
80°	247.1	414.6	411.2	434.0	476.7	572.9	690.6	834.2	930.1	906.1	818.3	80°
82.5°	128.5	262.0	258.1	262.1	301.8	382.7	472.1	589.6	688.7	690.9	661.4	82.5°
85°	95.5	188.0	199.2	208.3	234.6	262.8	279.2	316.8	371.2	421.8	439.9	85°
87.5°	35.1	112.9	140.6	151.1	151.7	148.2	120.7	132.8	120.9	143.0	199.7	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°
279.2	279.2	279.2	279.2	279.2	279.2	279.2
278.2	278.2	278.0	278.3	278.5	279.0	278.9
279.4	278.9	278.3	278.0	277.7	277.8	277.5
282.4	280.7	279.4	278.2	277.2	277.0	276.0
289.2	286.1	283.6	281.7	279.7	278.7	276.8
297.8	294.4	291.2	288.5	286.1	284.8	283.4
312.8	307.9	304.0	301.1	298.8	297.3	295.9
335.1	329.0	323.1	317.5	316.8	313.3	313.3
365.8	357.5	349.9	345.2	343.0	338.3	338.3
408.3	400.2	388.9	383.2	383.7	379.6	381.5
463.4	456.6	445.0	442.6	442.6	438.2	431.6
545.9	543.5	530.7	533.9	527.2	510.8	493.1
668.4	668.4	643.6	625.7	610.2	584.7	553.5
791.2	775.1	737.1	706.8	674.5	635.5	595.4
894.8	852.1	813.6	776.5	728.0	686.2	629.8
982.2	941.7	897.7	841.1	784.2	725.8	653.4
1090.6	1041.3	975.1	904.1	834.2	753.9	670.0
1189.7	1127.9	1044.4	954.4	865.4	775.8	677.9
1282.9	1203.2	1100.1	992.0	890.7	789.3	681.3
1370.6	1263.8	1143.8	1018.9	908.1	796.6	680.4
1428.5	1308.2	1171.3	1035.1	918.6	799.1	678.1
1464.8	1335.4	1187.5	1044.0	923.8	799.6	677.9
1485.3	1350.7	1196.3	1050.3	929.6	802.6	681.9
1501.1	1362.9	1206.1	1060.9	943.2	816.8	698.3
1516.1	1394.8	1231.6	1080.5	967.0	843.3	734.3
1522.4	1455.4	1283.4	1116.6	1000.3	885.9	790.3
1521.9	1466.9	1298.4	1126.6	1009.1	897.2	804.7
1503.5	1503.3	1366.8	1174.2	1049.9	949.5	864.6
1449.0	1521.5	1442.4	1237.0	1113.4	1035.7	954.7
1362.7	1499.4	1452.7	1253.5	1158.5	1114.9	1014.8
1214.2	1393.8	1356.3	1182.9	1143.1	1130.4	1016.3
982.1	1120.5	1104.4	1010.6	1025.3	1051.3	907.8
791.2	786.8	784.4	750.3	812.8	865.6	674.9
660.8	544.4	505.6	492.4	595.4	635.9	418.8
617.8	489.0	392.3	375.7	446.1	467.7	252.5
472.1	474.8	411.0	352.3	347.0	317.7	185.0
231.1	235.0	248.3	226.7	194.5	163.9	58.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)