

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: P146023

Luminaire Tested: **LDRL-SLR-F01-E-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146023
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-8030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (7) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1876.6 lumens
Efficiency: N/A
Efficacy: 72.5 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

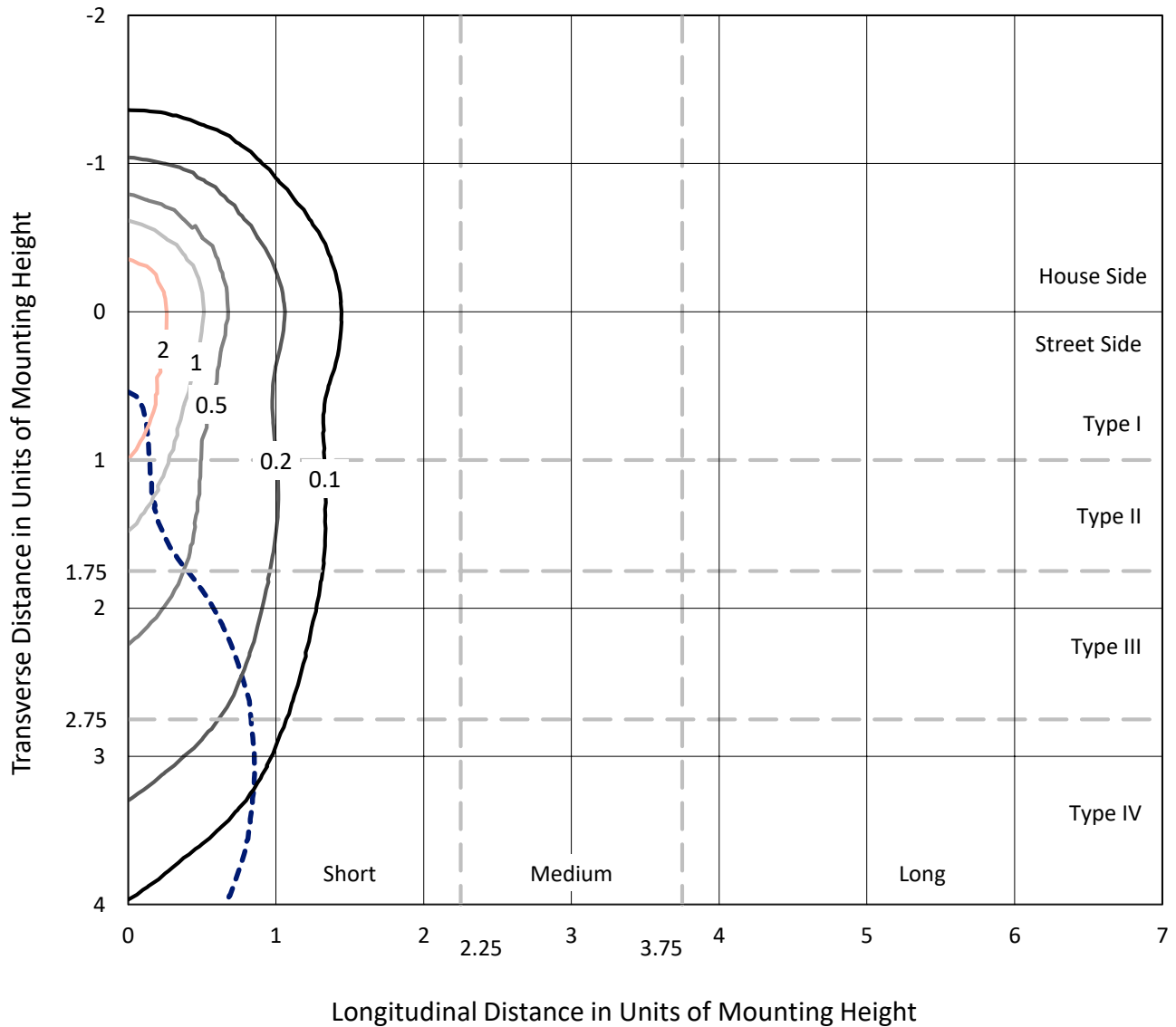
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

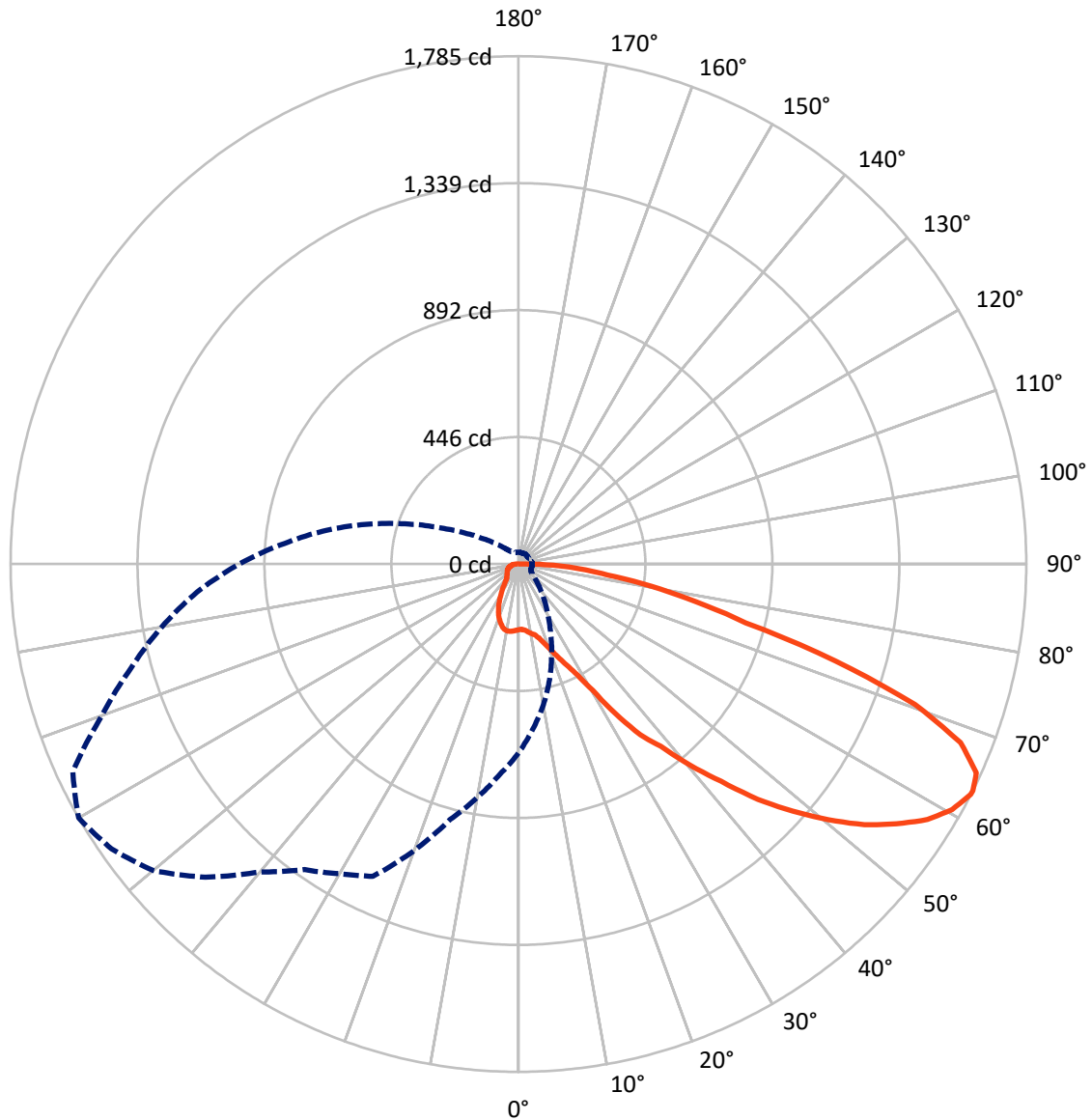
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3 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	392.8	0.0	392.8
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	1483.8	0.0	1483.8
	% Fixture	79.1	0.0	79.1
Total	Lumens	1876.6	0.0	1876.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.6	1.2
10°-20°	70.6	3.8
20°-30°	124.9	6.7
30°-40°	197.2	10.5
40°-50°	290.0	15.5
50°-60°	382.1	20.4
60°-70°	425.8	22.7
70°-80°	279.8	14.9
80°-90°	83.4	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°	1876.6	100.0
0°-180°	1876.6	100.0



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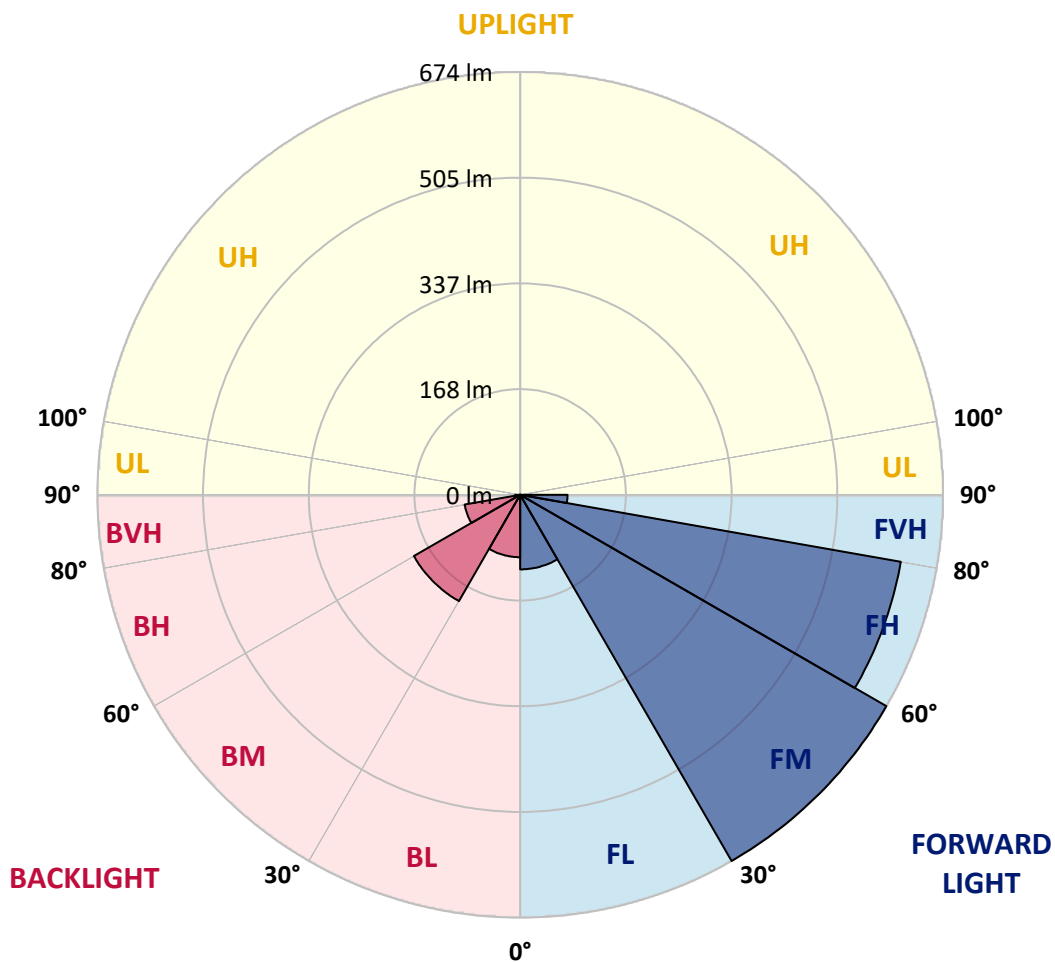
CATALOG NUMBER: LDRL-SLR-F01-E-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	118.8	6.3			
FM (30°-60°)	673.8	35.9			
FH (60°-80°)	615.8	32.8			G0/660
FVH (80°-90°)	75.4	4.0			G1/100
BL (0°-30°)	99.4	5.3	B0/110		
BM (30°-60°)	195.6	10.4	B0/220		
BH (60°-80°)	89.8	4.8	B0/110		G0/110
BVH (80°-90°)	8.0	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°	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5
2.5°	230.2	230.6	230.6	230.2	230.6	230.5	230.5	230.9	231.0	231.7	231.3
5°	229.1	229.2	229.4	229.1	229.2	229.2	229.5	229.9	230.1	230.9	230.5
7.5°	227.8	228.1	227.6	227.7	228.1	228.7	228.7	229.2	230.2	230.6	230.5
10°	228.5	228.3	227.8	227.7	228.0	228.1	228.4	229.4	230.2	230.6	231.3
12.5°	234.0	233.1	232.7	232.6	232.7	232.4	233.4	233.7	234.0	234.5	234.2
15°	244.3	243.2	242.5	241.8	243.3	242.6	242.6	241.8	240.4	238.3	235.6
17.5°	258.6	257.4	256.8	256.5	256.7	255.4	252.9	248.9	244.0	238.4	233.3
20°	279.3	281.2	280.4	276.6	275.2	269.6	261.7	253.3	244.8	235.9	227.4
22.5°	314.9	313.8	310.0	300.7	292.4	279.8	265.6	252.1	239.5	226.6	215.4
25°	356.3	347.0	336.4	318.0	298.8	278.1	257.7	241.6	224.9	210.7	197.3
27.5°	407.0	386.8	359.8	329.8	301.1	273.7	249.4	228.3	209.2	194.0	179.1
30°	456.9	423.2	385.6	345.9	307.1	270.1	238.0	213.5	191.5	172.0	156.9
32.5°	491.5	450.6	403.8	354.8	307.7	264.2	225.5	196.2	171.4	151.7	133.6
35°	519.9	468.9	410.2	353.4	298.8	250.5	207.5	175.0	148.7	128.3	112.5
37.5°	539.4	478.2	409.8	345.3	282.9	228.8	186.9	153.8	129.3	110.4	95.7
40°	553.1	481.2	404.4	331.5	264.6	207.8	164.8	134.7	113.3	98.5	87.9
42.5°	559.6	479.2	396.3	318.4	246.5	190.8	148.3	121.9	104.5	93.4	85.6
45°	562.4	474.5	387.2	305.6	231.7	176.1	139.8	118.0	104.4	94.8	86.3
47.5°	561.7	469.3	379.2	295.0	223.0	172.2	141.4	123.3	109.5	97.5	86.7
50°	559.8	464.6	374.0	291.1	222.8	178.1	150.8	132.2	115.5	100.1	86.3
52.5°	559.6	464.2	376.8	295.7	230.9	191.3	164.8	142.6	121.4	102.8	86.4
55°	563.0	471.7	388.6	308.1	250.4	209.9	180.7	153.6	127.9	104.8	86.0
57.5°	576.5	490.5	411.1	335.8	275.5	232.4	196.1	161.8	130.4	104.2	84.0
60°	606.2	523.5	445.6	375.0	307.7	253.1	205.1	164.6	129.3	100.9	79.8
62.5°	652.4	571.3	493.0	413.4	336.2	265.5	207.2	162.3	124.9	95.3	74.7
63°	664.3	582.3	502.6	421.4	341.1	266.7	207.1	161.5	123.6	93.9	73.4
65°	713.7	629.6	541.2	447.6	354.2	269.2	203.9	156.2	118.0	87.4	67.7
67.5°	788.1	681.7	579.5	472.0	361.5	264.8	193.8	143.1	103.7	75.9	59.2
70°	837.8	716.2	602.4	479.9	353.0	244.4	170.8	120.0	84.7	62.6	50.6
72.5°	839.0	685.3	571.5	438.7	304.8	201.6	133.8	90.7	65.9	50.9	43.6
75°	749.4	579.1	467.1	360.2	234.5	142.6	94.1	66.2	50.6	41.9	37.8
77.5°	557.1	422.5	337.1	242.3	152.3	92.4	65.5	49.1	40.1	34.7	31.6
80°	345.7	264.1	204.6	144.9	91.3	61.5	47.9	39.0	33.7	29.0	26.5
82.5°	208.5	147.8	115.5	87.5	58.4	44.3	36.9	32.9	28.6	24.4	22.4
85°	152.7	105.8	77.5	54.1	36.1	29.3	25.9	25.1	22.2	18.8	17.7
87.5°	48.1	50.4	52.4	31.9	17.4	13.2	11.3	13.2	12.7	8.9	9.8
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°	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5
2.5°	232.0	232.6	232.2	232.2	231.9	231.7	232.7	232.4	232.7	232.6	232.8
5°	231.2	231.6	231.3	231.6	231.3	231.3	232.6	232.6	233.1	233.4	234.1
7.5°	231.5	231.6	231.5	231.9	231.6	231.3	232.0	232.4	233.4	234.2	234.9
10°	232.4	232.8	232.7	232.7	231.9	231.3	231.7	232.0	233.0	233.4	234.2
12.5°	234.8	234.2	233.1	232.4	230.5	229.4	228.8	228.5	229.2	229.8	230.2
15°	234.2	231.2	228.7	226.6	223.7	221.8	220.4	220.3	220.4	220.6	221.0
17.5°	228.5	224.3	219.3	216.7	213.3	211.4	210.4	209.7	209.6	209.9	210.6
20°	220.3	214.2	208.6	204.0	200.4	197.3	198.0	196.5	197.2	197.6	198.8
22.5°	207.8	199.3	192.9	187.3	183.0	179.8	179.8	178.4	178.6	179.9	181.6
25°	187.4	179.5	170.3	166.4	161.5	159.3	158.9	158.6	159.7	161.2	162.2
27.5°	169.0	158.2	149.1	143.9	138.8	139.3	136.6	138.2	139.5	140.7	141.9
30°	144.2	135.3	127.1	121.9	115.8	115.9	116.4	116.6	117.7	119.4	121.7
32.5°	120.4	110.8	103.1	97.5	93.9	92.8	91.3	93.8	95.2	96.8	99.1
35°	100.7	90.7	84.3	79.4	77.3	75.8	75.4	75.1	76.4	77.2	79.0
37.5°	86.7	79.8	75.1	71.6	69.7	68.0	67.6	67.3	67.2	66.9	68.0
40°	81.0	75.5	71.5	68.3	66.5	65.5	65.1	64.5	64.0	63.3	63.1
42.5°	79.3	73.4	68.7	65.5	64.1	64.0	64.0	63.7	63.1	62.1	61.5
45°	78.6	71.5	66.1	63.5	62.6	62.7	62.7	62.7	62.3	61.3	60.2
47.5°	77.3	69.1	63.5	61.5	61.0	61.3	61.6	61.6	61.3	60.5	59.2
50°	75.0	65.5	59.6	57.7	57.6	57.7	57.7	58.0	57.7	57.0	55.9
52.5°	73.2	62.7	56.7	55.2	55.2	55.0	54.9	54.9	54.8	54.2	53.4
55°	71.5	60.9	55.5	54.2	54.5	54.5	54.2	54.1	53.5	52.8	52.0
57.5°	69.1	58.9	54.2	53.4	53.6	53.5	53.4	53.2	52.7	51.8	50.7
60°	64.9	55.5	51.7	51.1	51.6	51.7	52.3	52.4	52.1	51.1	49.6
62.5°	60.3	51.1	48.4	47.9	48.4	48.8	49.2	48.9	48.9	47.9	46.5
63°	58.8	50.4	47.4	47.4	47.8	48.2	48.5	48.2	48.4	47.2	45.8
65°	55.3	47.9	45.6	45.7	46.1	46.4	46.5	46.5	46.4	45.6	44.3
67.5°	49.5	44.3	42.9	43.6	44.2	44.3	44.3	44.6	44.3	43.8	42.6
70°	44.2	40.8	39.9	40.7	41.0	41.1	41.1	41.1	40.8	40.3	39.3
72.5°	40.1	38.5	38.3	38.2	38.3	37.9	37.9	37.6	36.9	36.5	35.7
75°	35.7	34.8	35.0	34.8	34.6	34.4	33.7	33.4	32.6	32.0	30.9
77.5°	30.7	30.8	30.7	30.8	31.1	31.2	30.2	29.5	28.8	28.3	27.7
80°	25.5	25.8	25.5	25.8	25.9	25.9	24.9	23.8	23.3	23.7	23.8
82.5°	22.7	22.7	21.6	21.9	21.6	21.2	20.5	20.1	19.6	19.4	20.1
85°	18.0	18.1	18.4	18.1	17.6	17.1	16.4	15.9	15.5	15.9	16.9
87.5°	10.7	11.6	11.1	11.1	11.0	11.0	10.5	10.2	9.8	11.4	12.3
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°	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5
2.5°	232.7	233.1	233.3	233.1	233.3	233.5	232.4	233.5	233.7	232.8	233.1
5°	234.7	235.4	236.3	236.3	237.0	237.4	236.9	238.4	238.7	238.6	239.3
7.5°	236.1	237.0	238.3	239.0	240.2	240.8	241.2	242.6	242.9	243.4	244.0
10°	235.9	237.3	238.4	240.4	241.9	243.0	243.9	245.4	245.9	246.8	247.2
12.5°	231.9	233.4	235.5	238.3	241.1	242.9	245.1	247.3	248.2	249.3	250.0
15°	222.8	224.1	227.0	230.6	234.4	239.0	242.2	245.7	247.2	248.3	249.3
17.5°	211.0	212.1	214.7	217.9	223.0	227.4	232.3	237.6	240.2	241.5	241.9
20°	200.0	201.6	202.3	206.1	207.8	212.2	216.4	222.3	225.6	227.8	229.2
22.5°	182.7	183.5	187.1	188.7	189.9	192.7	197.9	203.0	207.5	211.1	212.2
25°	163.6	165.8	167.8	169.0	172.0	172.1	176.3	179.9	185.5	189.0	191.7
27.5°	142.6	145.9	147.0	147.8	150.1	152.7	154.3	157.9	161.1	165.1	170.1
30°	121.4	124.6	126.8	128.1	130.2	132.7	133.8	136.1	140.3	144.8	148.7
32.5°	101.6	104.9	106.0	110.1	110.6	113.0	113.8	117.6	120.0	123.7	128.3
35°	82.2	85.7	89.0	91.3	93.8	93.6	95.9	99.4	101.4	105.3	108.4
37.5°	69.0	71.1	73.4	75.9	78.7	80.8	82.9	84.4	86.1	88.8	91.6
40°	63.1	63.7	64.7	66.2	68.1	69.7	71.2	72.5	73.7	75.8	77.6
42.5°	60.8	60.3	60.3	60.1	60.8	61.6	62.8	63.3	65.2	66.5	67.2
45°	59.1	58.1	57.4	56.6	56.3	56.6	57.3	58.2	59.5	59.9	59.9
47.5°	58.1	56.6	55.5	54.2	53.5	53.5	53.9	54.6	55.3	55.5	55.3
50°	54.8	53.2	51.8	50.7	50.2	50.2	50.3	51.3	51.4	51.1	51.3
52.5°	52.3	50.7	49.3	48.4	47.7	47.8	48.2	48.6	49.1	48.8	48.5
55°	50.7	48.9	47.7	46.5	45.7	46.0	46.4	47.0	47.7	47.2	46.8
57.5°	49.3	47.8	46.3	45.1	44.2	44.5	44.9	45.7	46.5	45.7	45.1
60°	48.1	46.5	45.0	43.9	42.8	43.1	43.6	44.5	45.1	44.0	43.3
62.5°	45.0	43.6	42.5	41.9	41.2	41.7	42.1	43.1	42.8	41.7	40.8
63°	44.5	43.1	42.1	41.5	41.0	41.5	41.7	42.6	42.2	41.1	40.4
65°	42.8	41.7	40.7	40.1	39.6	39.9	39.9	40.3	39.7	38.9	38.3
67.5°	41.2	40.0	39.0	37.9	37.3	37.1	36.9	36.8	36.4	36.0	35.8
70°	37.9	37.1	36.2	35.3	34.4	33.9	33.6	33.3	33.0	32.9	32.7
72.5°	34.3	33.6	32.7	32.2	31.5	31.1	30.4	30.2	30.0	29.7	29.5
75°	30.4	29.5	29.3	28.7	28.3	28.0	27.5	27.3	27.0	26.6	26.5
77.5°	26.9	26.6	26.2	26.1	25.4	24.9	24.7	24.5	24.2	24.0	23.7
80°	24.0	23.8	23.5	23.4	23.0	22.4	22.2	22.3	21.9	21.7	21.3
82.5°	21.6	21.7	21.7	21.3	20.9	20.2	19.9	20.3	20.1	19.5	19.0
85°	18.4	18.3	18.4	18.3	17.4	16.7	16.4	16.7	16.6	15.7	15.6
87.5°	13.1	13.0	12.7	13.5	12.4	10.0	10.3	11.7	11.3	10.9	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):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5
2.5°	233.7	233.3	233.5	233.7	233.3	234.2	233.3	233.4	233.7	232.8	232.7
5°	239.8	239.8	240.9	241.1	240.9	242.2	242.0	242.2	241.9	241.8	241.2
7.5°	244.8	245.4	246.2	247.5	247.9	248.9	249.2	249.3	249.8	250.4	250.1
10°	248.5	250.0	250.7	251.9	253.2	253.9	254.6	255.7	256.1	256.5	256.0
12.5°	251.0	252.8	253.9	255.4	257.0	258.1	259.3	260.7	262.1	262.5	261.8
15°	249.7	251.8	253.5	255.1	257.5	259.6	262.0	264.5	266.3	267.0	266.2
17.5°	241.9	244.0	246.5	249.0	251.5	255.4	258.8	262.9	265.9	268.0	268.2
20°	231.2	232.4	236.1	238.6	242.6	247.2	252.2	257.1	260.4	264.2	266.4
22.5°	215.3	217.8	221.8	226.2	230.2	236.2	241.5	247.9	253.6	258.8	263.6
25°	195.9	199.4	204.1	210.1	215.4	221.8	229.5	236.6	246.2	254.3	264.8
27.5°	175.0	181.4	188.0	194.2	200.1	207.3	215.3	223.2	234.2	247.2	260.9
30°	155.2	160.5	168.7	176.0	182.8	191.7	200.0	208.7	219.2	234.5	250.0
32.5°	134.6	138.9	145.3	154.3	162.2	172.7	179.9	190.3	202.5	218.6	236.2
35°	113.3	119.3	124.4	130.6	136.6	147.0	157.9	169.4	183.4	200.7	219.9
37.5°	94.5	98.2	100.7	107.0	112.3	121.2	133.9	147.8	163.2	180.7	201.4
40°	78.9	81.2	84.0	88.2	92.7	100.7	112.5	128.1	144.1	161.6	182.3
42.5°	68.1	69.7	70.0	73.2	77.3	85.3	94.6	109.0	126.7	145.1	165.7
45°	60.8	60.8	60.6	62.0	65.4	72.2	80.7	93.5	110.4	129.6	151.1
47.5°	55.6	56.0	55.9	56.4	58.7	63.7	71.3	82.2	97.5	116.4	138.0
50°	51.7	52.3	52.4	52.5	53.4	57.6	64.1	72.9	86.5	104.5	126.2
52.5°	48.6	48.8	48.8	48.6	48.9	51.3	56.7	64.8	77.5	93.6	114.5
55°	47.0	47.1	47.1	47.1	47.1	48.6	52.5	59.1	69.3	84.4	103.4
57.5°	45.0	45.0	45.3	45.3	45.3	45.8	48.6	54.1	61.9	74.0	90.9
60°	43.3	43.8	44.3	44.5	44.3	44.3	45.7	49.3	54.5	63.3	77.5
62.5°	40.8	41.4	42.1	42.4	42.5	42.2	42.9	44.5	47.5	52.1	61.7
63°	40.4	41.0	41.5	41.8	41.9	41.7	42.2	43.5	46.0	49.7	58.4
65°	38.6	39.3	39.4	39.6	39.4	39.3	39.2	39.2	39.9	41.2	45.8
67.5°	36.1	36.5	36.5	36.8	36.1	35.8	35.5	35.3	34.8	35.0	36.6
70°	33.2	33.4	33.3	33.2	32.9	32.5	32.2	31.8	30.9	30.7	31.5
72.5°	29.8	30.1	30.1	30.1	29.5	29.3	29.0	28.7	28.4	28.7	29.0
75°	26.8	26.8	27.0	26.9	26.5	26.2	26.1	25.9	25.9	25.9	25.8
77.5°	23.8	23.7	23.7	23.3	23.0	22.9	23.1	23.3	23.1	22.9	22.7
80°	21.3	20.6	19.9	19.4	19.2	19.5	19.8	20.6	20.2	20.2	19.9
82.5°	18.1	16.6	15.6	15.7	15.3	15.5	15.7	16.7	16.4	16.6	17.1
85°	14.5	13.1	11.6	11.8	11.8	11.6	12.3	12.5	12.8	13.5	13.0
87.5°	10.2	8.9	7.4	6.4	6.7	7.0	7.2	7.0	6.1	6.4	6.3
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5
2.5°	232.4	232.6	232.6	231.6	231.3	231.6	231.5	231.5	230.6	230.8	230.5
5°	240.9	241.2	240.4	239.7	238.7	238.6	238.4	237.9	237.3	236.2	235.6
7.5°	250.0	248.7	248.5	247.2	246.8	245.7	244.8	244.0	243.3	242.7	242.3
10°	255.7	254.7	254.4	252.2	251.5	250.1	249.3	248.3	247.5	246.6	246.5
12.5°	260.9	259.2	258.2	255.1	253.8	252.2	251.5	250.7	250.4	250.3	250.8
15°	264.9	262.5	260.7	257.9	256.8	256.0	256.1	255.7	257.4	258.3	260.2
17.5°	267.5	266.6	266.2	264.1	264.8	264.8	266.7	267.7	270.8	273.3	275.8
20°	268.9	270.8	274.2	274.9	276.6	278.4	281.3	283.0	286.2	289.8	293.3
22.5°	270.2	277.9	285.0	290.3	294.0	298.2	300.3	303.8	306.0	308.7	313.9
25°	277.2	290.0	302.5	309.4	318.3	324.3	329.0	332.5	336.4	338.6	344.6
27.5°	275.2	291.5	308.2	320.8	334.7	346.0	356.0	362.7	367.7	375.8	380.8
30°	266.3	285.2	305.4	323.3	342.8	361.2	378.6	394.2	407.6	418.5	425.8
32.5°	253.6	275.3	299.0	321.1	346.0	370.5	395.6	419.4	442.1	460.1	471.4
35°	239.4	262.8	289.0	315.1	345.0	377.1	410.9	443.0	475.9	504.6	527.2
37.5°	222.1	247.5	276.2	306.4	340.8	379.3	421.9	465.6	507.5	551.0	582.7
40°	204.0	228.8	258.6	293.2	332.9	378.2	430.4	487.0	547.8	603.8	652.1
42.5°	188.5	212.8	244.0	278.1	320.9	374.0	436.2	506.2	581.1	653.7	717.9
45°	173.3	199.3	230.8	266.8	313.5	372.3	443.5	523.0	608.4	694.5	776.4
47.5°	161.4	187.0	218.8	257.5	307.5	371.4	450.5	538.6	630.7	724.9	822.0
50°	149.9	174.5	205.4	246.2	301.3	369.8	454.7	551.0	648.1	748.7	854.3
52.5°	138.2	163.7	193.8	233.4	293.0	366.8	455.9	560.7	666.1	771.6	884.6
55°	126.4	151.9	182.0	223.0	281.9	360.8	455.0	567.8	684.9	795.7	912.2
57.5°	111.9	137.0	168.5	209.7	267.5	348.8	450.2	570.9	696.6	818.2	939.9
60°	95.6	119.3	149.1	191.2	250.0	331.5	439.6	566.6	701.9	833.2	969.3
62.5°	75.1	95.7	123.2	165.0	224.5	306.6	416.5	547.5	689.1	829.4	982.0
63°	70.5	90.4	118.7	158.0	217.0	297.9	409.7	540.9	683.4	825.9	980.4
65°	53.8	68.6	92.0	127.1	183.4	258.1	373.7	503.9	647.4	791.2	956.3
67.5°	39.7	47.4	61.7	85.3	129.0	200.8	306.3	435.2	571.0	706.2	874.3
70°	32.9	35.8	42.5	54.6	79.8	133.2	216.4	331.2	459.0	575.4	727.1
72.5°	29.4	31.5	34.6	40.0	50.4	78.2	140.7	215.0	319.7	420.3	548.5
75°	26.3	27.7	30.2	33.4	38.2	48.9	74.4	127.5	195.4	283.2	376.2
77.5°	23.1	24.5	27.0	29.5	32.6	37.2	46.1	72.6	116.9	165.3	230.9
80°	20.1	20.8	22.9	26.5	28.7	32.5	35.4	45.4	63.7	86.5	123.0
82.5°	16.6	16.7	18.1	20.9	23.7	25.1	25.9	28.6	36.6	45.7	60.3
85°	11.8	11.3	12.1	13.2	15.5	14.2	15.2	16.0	19.5	23.5	43.2
87.5°	5.3	4.2	4.9	5.4	4.9	3.3	4.9	4.0	5.0	9.9	11.1
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°	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	230.5	0°
2.5°	230.8	229.9	229.9	229.8	229.9	229.6	229.1	229.1	229.5	229.4	229.4	2.5°
5°	235.6	234.5	234.2	234.1	234.1	233.4	232.6	232.2	232.0	231.5	231.0	5°
7.5°	242.0	241.3	241.8	240.9	240.7	240.5	239.4	238.6	237.3	236.8	234.7	7.5°
10°	247.3	246.9	248.0	247.9	248.0	248.0	246.5	245.7	243.9	242.9	240.2	10°
12.5°	251.9	252.2	254.3	254.3	254.7	255.3	254.4	252.6	251.9	251.0	248.2	12.5°
15°	263.6	264.8	266.3	268.8	269.5	269.6	270.3	268.8	267.0	264.5	261.1	15°
17.5°	279.5	281.8	286.9	290.5	291.2	291.9	291.5	291.2	287.9	285.8	282.3	17.5°
20°	299.5	304.9	312.1	317.2	319.4	319.7	322.4	320.5	317.4	313.3	308.2	20°
22.5°	321.8	330.8	340.0	347.4	351.7	353.7	356.6	353.8	349.8	347.3	340.6	22.5°
25°	352.3	362.2	372.8	378.6	389.6	392.8	394.5	393.7	389.5	391.3	385.2	25°
27.5°	394.1	402.6	417.5	424.9	435.2	441.2	439.9	446.9	448.1	452.5	453.2	27.5°
30°	439.6	453.7	473.8	488.7	504.4	514.6	522.7	528.8	535.9	547.9	555.2	30°
32.5°	488.8	509.2	534.8	566.4	599.9	627.2	658.0	663.3	679.2	674.6	671.5	32.5°
35°	543.6	569.2	602.1	643.6	692.3	737.4	767.1	782.0	788.3	791.8	770.6	35°
37.5°	616.9	651.6	688.2	733.5	770.7	813.0	847.1	884.2	901.2	893.1	852.5	37.5°
40°	698.1	730.6	780.2	817.3	861.2	930.7	977.0	1021.6	1035.5	1008.6	945.1	40°
42.5°	779.6	824.2	878.0	930.7	981.1	1044.1	1105.4	1149.5	1164.8	1118.8	1043.4	42.5°
45°	852.2	909.4	972.6	1026.7	1097.2	1179.6	1254.7	1290.1	1287.3	1213.4	1128.6	45°
47.5°	915.5	989.6	1061.0	1133.9	1204.9	1297.9	1372.3	1413.0	1384.1	1306.5	1210.4	47.5°
50°	967.8	1057.4	1143.5	1227.2	1314.5	1413.3	1485.0	1522.6	1478.8	1380.5	1273.1	50°
52.5°	1007.5	1118.5	1217.8	1311.4	1415.6	1522.4	1586.2	1608.9	1540.5	1437.8	1320.0	52.5°
55°	1045.0	1170.5	1280.3	1386.6	1516.4	1612.1	1671.9	1667.7	1579.4	1462.7	1349.4	55°
57.5°	1073.3	1214.8	1331.7	1452.8	1592.6	1694.9	1729.4	1701.8	1595.5	1470.1	1357.9	57.5°
60°	1108.9	1249.4	1377.4	1512.6	1665.1	1751.6	1756.2	1706.7	1590.9	1456.2	1346.0	60°
62.5°	1131.8	1271.0	1406.6	1553.6	1720.2	1783.5	1750.6	1685.7	1564.5	1421.8	1318.5	62.5°
63°	1134.0	1273.1	1408.9	1557.6	1728.0	1784.9	1745.5	1676.2	1556.6	1412.3	1311.3	63°
65°	1124.0	1267.1	1398.1	1550.4	1730.0	1768.5	1707.7	1637.3	1513.6	1363.9	1268.6	65°
67.5°	1053.9	1202.7	1327.7	1470.5	1654.7	1676.1	1615.2	1538.7	1422.5	1259.7	1175.4	67.5°
70°	928.3	1069.8	1158.4	1291.1	1453.1	1478.6	1424.1	1364.9	1261.6	1125.6	1055.7	70°
72.5°	747.9	886.8	940.0	1041.6	1170.4	1164.8	1126.5	1119.1	1064.8	950.6	908.5	72.5°
75°	559.1	691.3	713.7	755.1	827.0	825.2	834.1	865.9	893.1	825.6	771.7	75°
77.5°	368.7	500.3	514.2	562.4	582.3	637.0	701.1	780.9	820.5	792.9	726.7	77.5°
80°	204.0	342.2	339.4	358.3	393.5	472.9	570.1	688.7	767.8	748.0	675.6	80°
82.5°	106.0	216.3	213.1	216.4	249.2	315.9	389.8	486.7	568.5	570.3	546.0	82.5°
85°	78.9	155.2	164.4	172.0	193.7	217.0	230.5	261.6	306.4	348.2	363.1	85°
87.5°	29.0	93.2	116.1	124.7	125.3	122.3	99.6	109.7	99.8	118.0	164.8	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°
230.5	230.5	230.5	230.5	230.5	230.5	230.5
229.6	229.6	229.5	229.8	229.9	230.3	230.2
230.6	230.2	229.8	229.5	229.2	229.4	229.1
233.1	231.7	230.6	229.6	228.8	228.7	227.8
238.7	236.2	234.1	232.6	230.9	230.1	228.5
245.8	243.0	240.4	238.1	236.2	235.1	234.0
258.2	254.2	251.0	248.6	246.6	245.4	244.3
276.6	271.6	266.7	262.1	261.6	258.6	258.6
302.0	295.1	288.9	285.0	283.2	279.3	279.3
337.1	330.4	321.1	316.3	316.7	313.4	314.9
382.5	376.9	367.3	365.4	365.4	361.7	356.3
450.6	448.7	438.1	440.8	435.2	421.7	407.0
551.8	551.8	531.3	516.6	503.7	482.7	456.9
653.1	639.9	608.5	583.4	556.8	524.6	491.5
738.7	703.4	671.7	641.0	601.0	566.4	519.9
810.9	777.4	741.0	694.4	647.4	599.2	539.4
900.3	859.6	805.0	746.3	688.7	622.3	553.1
982.1	931.1	862.1	787.9	714.4	640.4	559.6
1059.0	993.3	908.1	818.9	735.3	651.6	562.4
1131.5	1043.3	944.2	841.1	749.7	657.6	561.7
1179.3	1079.9	966.9	854.5	758.3	659.7	559.8
1209.3	1102.4	980.3	861.9	762.6	660.1	559.6
1226.1	1115.1	987.6	867.0	767.4	662.6	563.0
1239.2	1125.1	995.6	875.8	778.7	674.3	576.5
1251.6	1151.4	1016.7	892.0	798.3	696.2	606.2
1256.8	1201.5	1059.5	921.8	825.8	731.3	652.4
1256.4	1210.9	1071.9	930.0	833.0	740.6	664.3
1241.2	1241.0	1128.3	969.3	866.7	783.8	713.7
1196.2	1256.1	1190.7	1021.1	919.1	855.0	788.1
1124.9	1237.8	1199.2	1034.8	956.3	920.4	837.8
1002.3	1150.6	1119.7	976.5	943.7	933.2	839.0
810.7	925.0	911.7	834.3	846.4	867.9	749.4
653.1	649.5	647.5	619.4	671.0	714.6	557.1
545.5	449.4	417.3	406.5	491.5	524.9	345.7
510.0	403.7	323.8	310.2	368.3	386.1	208.5
389.8	392.0	339.3	290.8	286.5	262.3	152.7
190.8	194.0	205.0	187.1	160.5	135.3	48.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)