

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: P146033

Luminaire Tested: **LDRL-SLR-F02-E-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P146033  
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-F02-E-8030  
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT  
Light Source: (14) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3753.2 lumens  
Efficiency: N/A  
Efficacy: 68.2 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

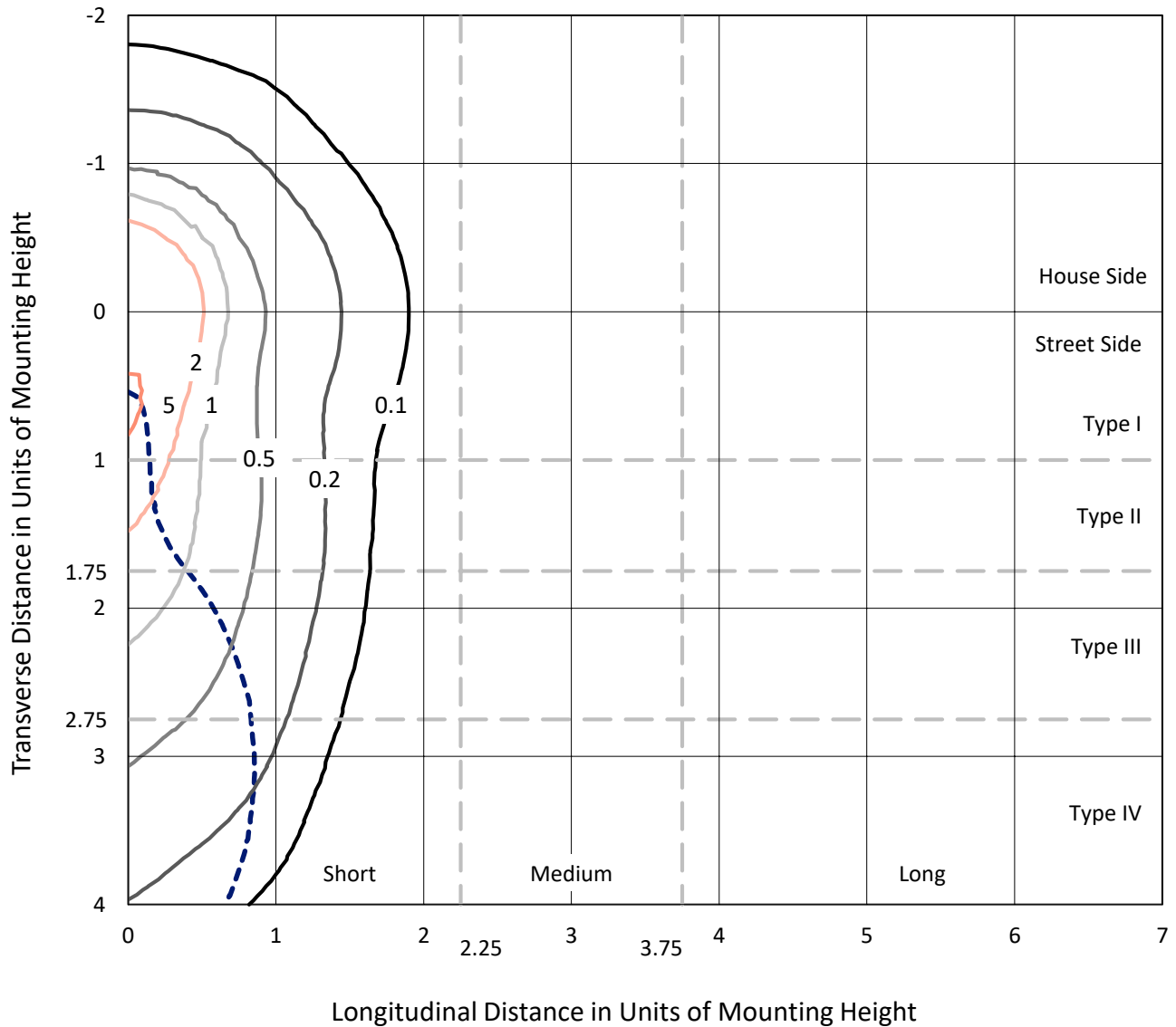
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

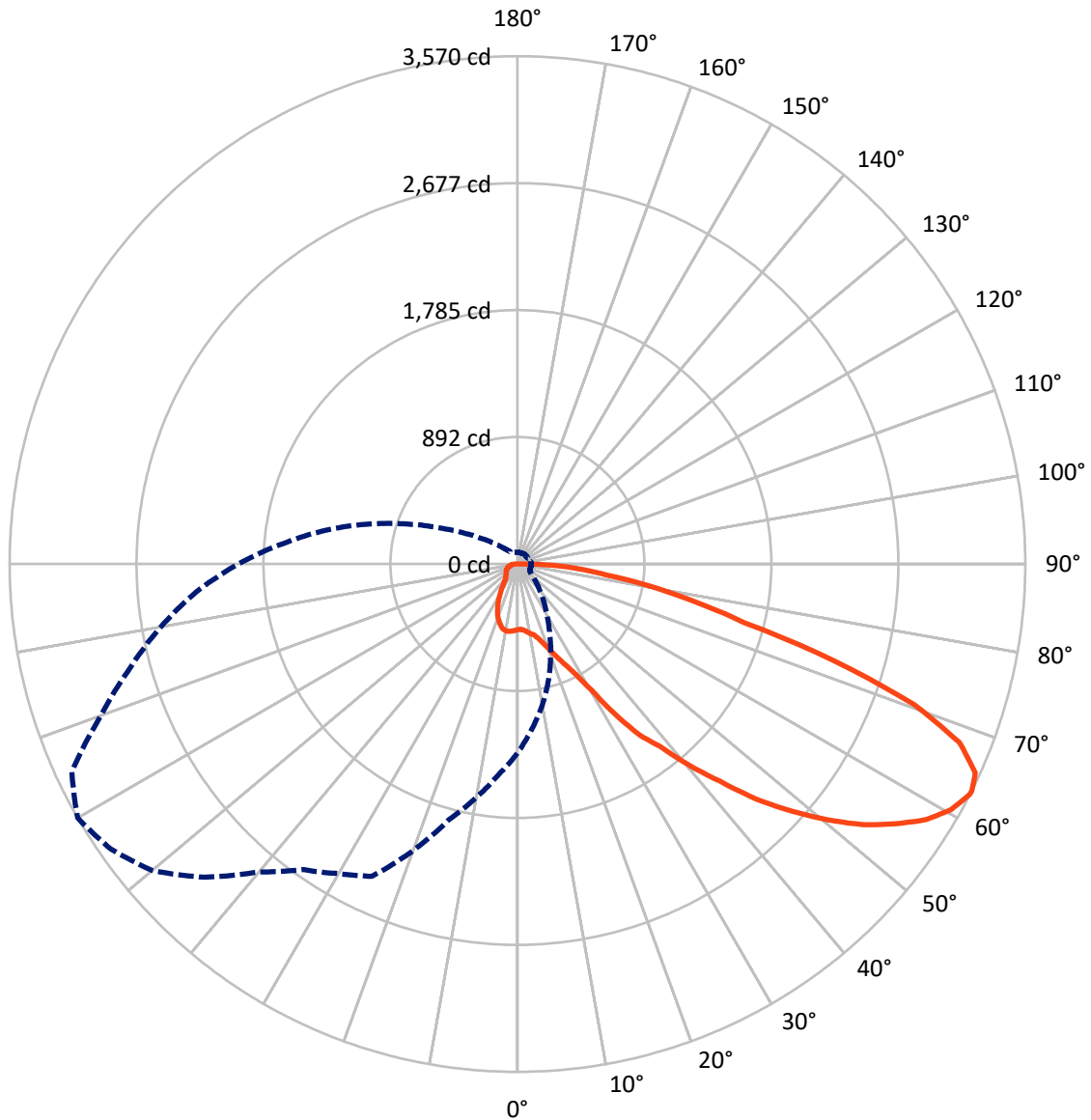
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.9 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
<b>House Side</b>	Lumens	785.7	0.0	785.7
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	2967.6	0.0	2967.6
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	3753.2	0.0	3753.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.3	1.2
10°-20°	141.3	3.8
20°-30°	249.9	6.7
30°-40°	394.5	10.5
40°-50°	580.1	15.5
50°-60°	764.1	20.4
60°-70°	851.7	22.7
70°-80°	559.6	14.9
80°-90°	166.9	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°	3753.2	100.0
0°-180°	3753.2	100.0



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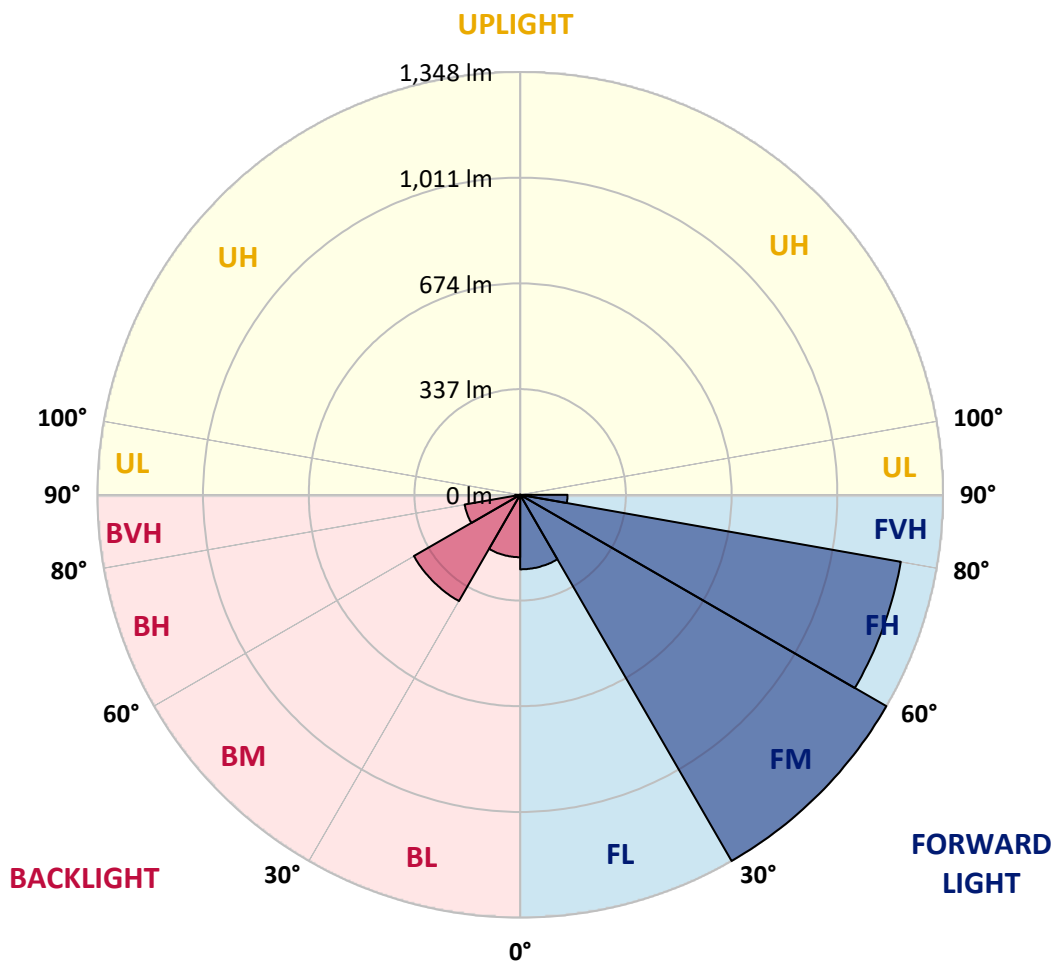
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	237.6	6.3			
FM	(30°-60°)	1347.5	35.9			
FH	(60°-80°)	1231.7	32.8			G1/1800
FVH	(80°-90°)	150.8	4.0			G2/225
BL	(0°-30°)	198.9	5.3	B1/500		
BM	(30°-60°)	391.2	10.4	B1/1000		
BH	(60°-80°)	179.6	4.8	B1/500		G1/500
BVH	(80°-90°)	16.1	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-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0
2.5°	460.4	461.2	461.2	460.4	461.2	461.0	461.0	461.8	462.1	463.5	462.6
5°	458.2	458.5	458.7	458.2	458.5	458.5	459.0	459.8	460.1	461.8	461.0
7.5°	455.7	456.2	455.1	455.4	456.2	457.3	457.3	458.5	460.4	461.2	461.0
10°	457.1	456.5	455.7	455.4	455.9	456.2	456.8	458.7	460.4	461.2	462.6
12.5°	467.9	466.3	465.4	465.1	465.4	464.9	466.8	467.4	467.9	469.0	468.5
15°	488.6	486.3	484.9	483.5	486.6	485.2	485.2	483.5	480.7	476.6	471.3
17.5°	517.3	514.7	513.6	513.1	513.4	510.8	505.8	497.7	488.0	476.8	466.5
20°	558.5	562.4	560.7	553.2	550.4	539.3	523.4	506.7	489.7	471.8	454.8
22.5°	629.8	627.6	620.1	601.4	584.7	559.6	531.2	504.2	479.1	453.2	430.9
25°	712.6	693.9	672.8	636.0	597.5	556.3	515.3	483.3	449.8	421.4	394.6
27.5°	814.1	773.7	719.6	659.7	602.3	547.4	498.9	456.5	418.3	387.9	358.1
30°	913.8	846.4	771.1	691.7	614.2	540.1	476.0	427.0	382.9	343.9	313.8
32.5°	983.0	901.3	807.7	709.6	615.4	528.4	450.9	392.4	342.8	303.5	267.3
35°	1039.8	937.8	820.5	706.8	597.5	501.1	415.0	350.0	297.4	256.7	224.9
37.5°	1078.8	956.5	819.6	690.6	565.7	457.6	373.7	307.7	258.6	220.7	191.5
40°	1106.1	962.3	808.8	663.0	529.2	415.5	329.7	269.5	226.6	197.0	175.9
42.5°	1119.2	958.4	792.6	636.8	493.0	381.5	296.5	243.9	209.0	186.7	171.1
45°	1124.8	949.0	774.5	611.2	463.5	352.3	279.5	236.1	208.7	189.5	172.5
47.5°	1123.4	938.6	758.3	590.0	445.9	344.5	282.9	246.6	219.1	195.1	173.3
50°	1119.5	929.2	748.0	582.2	445.6	356.2	301.5	264.5	231.0	200.1	172.5
52.5°	1119.2	928.3	753.6	591.4	461.8	382.6	329.7	285.1	242.7	205.7	172.8
55°	1125.9	943.4	777.3	616.2	500.8	419.7	361.5	307.1	255.8	209.6	172.0
57.5°	1153.0	981.0	822.1	671.7	551.0	464.9	392.1	323.6	260.9	208.5	168.1
60°	1212.3	1047.1	891.3	750.0	615.4	506.1	410.2	329.1	258.6	201.8	159.7
62.5°	1304.8	1142.6	986.0	826.9	672.5	530.9	414.4	324.7	249.7	190.6	149.4
63°	1328.5	1164.7	1005.3	842.8	682.2	533.4	414.1	323.0	247.2	187.8	146.9
65°	1427.5	1259.1	1082.4	895.2	708.4	538.4	407.7	312.4	236.1	174.7	135.4
67.5°	1576.3	1363.4	1159.1	943.9	722.9	529.5	387.7	286.2	207.3	151.9	118.4
70°	1675.5	1432.5	1204.8	959.8	705.9	488.8	341.7	240.0	169.4	125.1	101.2
72.5°	1678.0	1370.6	1142.9	877.3	609.5	403.3	267.5	181.4	131.8	101.7	87.2
75°	1498.8	1158.3	934.2	720.4	469.0	285.1	188.1	132.4	101.2	83.9	75.5
77.5°	1114.2	845.0	674.2	484.6	304.6	184.8	131.0	98.1	80.3	69.4	63.3
80°	691.4	528.1	409.1	289.8	182.5	122.9	95.9	78.0	67.4	58.0	53.0
82.5°	416.9	295.7	231.0	175.0	116.8	88.6	73.9	65.8	57.1	48.8	44.9
85°	305.4	211.5	155.0	108.1	72.2	58.5	51.8	50.2	44.3	37.6	35.4
87.5°	96.1	100.9	104.8	63.8	34.8	26.5	22.6	26.5	25.4	17.8	19.5
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0
2.5°	464.0	465.1	464.3	464.3	463.7	463.5	465.4	464.9	465.4	465.1	465.7
5°	462.4	463.2	462.6	463.2	462.6	462.6	465.1	465.1	466.3	466.8	468.2
7.5°	462.9	463.2	462.9	463.7	463.2	462.6	464.0	464.9	466.8	468.5	469.9
10°	464.9	465.7	465.4	465.4	463.7	462.6	463.5	464.0	466.0	466.8	468.5
12.5°	469.6	468.5	466.3	464.9	461.0	458.7	457.6	457.1	458.5	459.6	460.4
15°	468.5	462.4	457.3	453.2	447.3	443.7	440.9	440.6	440.9	441.2	442.0
17.5°	457.1	448.7	438.7	433.4	426.7	422.8	420.8	419.4	419.2	419.7	421.1
20°	440.6	428.4	417.2	408.0	400.8	394.6	396.0	393.0	394.4	395.2	397.7
22.5°	415.5	398.5	385.7	374.6	365.9	359.5	359.5	356.7	357.3	359.8	363.1
25°	374.8	359.0	340.6	332.8	323.0	318.5	317.7	317.2	319.4	322.4	324.4
27.5°	338.1	316.3	298.2	287.9	277.6	278.7	273.1	276.5	279.0	281.5	283.7
30°	288.4	270.6	254.2	243.9	231.6	231.9	232.7	233.3	235.5	238.8	243.3
32.5°	240.8	221.6	206.2	195.1	187.8	185.6	182.5	187.6	190.3	193.7	198.2
35°	201.5	181.4	168.6	158.9	154.7	151.6	150.8	150.2	152.7	154.4	158.0
37.5°	173.3	159.7	150.2	143.2	139.3	136.0	135.2	134.6	134.3	133.8	136.0
40°	161.9	151.1	143.0	136.6	132.9	131.0	130.2	129.0	127.9	126.5	126.2
42.5°	158.6	146.9	137.4	131.0	128.2	127.9	127.9	127.4	126.2	124.3	122.9
45°	157.2	143.0	132.1	127.1	125.1	125.4	125.4	125.4	124.6	122.6	120.4
47.5°	154.7	138.2	127.1	122.9	122.1	122.6	123.2	123.2	122.6	121.0	118.4
50°	149.9	131.0	119.3	115.4	115.1	115.4	115.4	115.9	115.4	114.0	111.8
52.5°	146.3	125.4	113.4	110.4	110.4	110.1	109.8	109.8	109.5	108.4	106.7
55°	143.0	121.8	110.9	108.4	109.0	109.0	108.4	108.1	107.0	105.6	104.0
57.5°	138.2	117.9	108.4	106.7	107.3	107.0	106.7	106.5	105.3	103.7	101.4
60°	129.9	110.9	103.4	102.3	103.1	103.4	104.5	104.8	104.2	102.3	99.2
62.5°	120.7	102.3	96.7	95.9	96.7	97.5	98.4	97.8	97.8	95.9	93.1
63°	117.6	100.9	94.8	94.8	95.6	96.4	97.0	96.4	96.7	94.5	91.7
65°	110.6	95.9	91.1	91.4	92.2	92.8	93.1	93.1	92.8	91.1	88.6
67.5°	98.9	88.6	85.8	87.2	88.3	88.6	88.6	89.2	88.6	87.5	85.3
70°	88.3	81.7	79.7	81.4	81.9	82.2	82.2	82.2	81.7	80.5	78.6
72.5°	80.3	76.9	76.6	76.4	76.6	75.8	75.8	75.2	73.9	73.0	71.3
75°	71.3	69.7	70.0	69.7	69.1	68.8	67.4	66.9	65.2	64.1	61.9
77.5°	61.3	61.6	61.3	61.6	62.1	62.4	60.5	59.1	57.7	56.6	55.5
80°	51.0	51.6	51.0	51.6	51.8	51.8	49.9	47.7	46.5	47.4	47.7
82.5°	45.4	45.4	43.2	43.8	43.2	42.4	41.0	40.1	39.3	38.7	40.1
85°	36.0	36.2	36.8	36.2	35.1	34.3	32.9	31.8	30.9	31.8	33.7
87.5°	21.5	23.1	22.3	22.3	22.0	22.0	20.9	20.3	19.5	22.9	24.5
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°	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0
2.5°	465.4	466.3	466.5	466.3	466.5	467.1	464.9	467.1	467.4	465.7	466.3
5°	469.3	470.7	472.7	472.7	474.1	474.9	473.8	476.8	477.4	477.1	478.5
7.5°	472.1	474.1	476.6	478.0	480.5	481.6	482.4	485.2	485.8	486.9	488.0
10°	471.8	474.6	476.8	480.7	483.8	486.0	487.7	490.8	491.9	493.6	494.4
12.5°	463.7	466.8	471.0	476.6	482.1	485.8	490.2	494.7	496.4	498.6	500.0
15°	445.6	448.1	454.0	461.2	468.8	478.0	484.4	491.3	494.4	496.6	498.6
17.5°	421.9	424.2	429.5	435.9	445.9	454.8	464.6	475.2	480.5	483.0	483.8
20°	399.9	403.3	404.7	412.2	415.5	424.5	432.8	444.5	451.2	455.7	458.5
22.5°	365.4	367.0	374.3	377.4	379.9	385.4	395.7	406.1	415.0	422.2	424.5
25°	327.2	331.6	335.5	338.1	343.9	344.2	352.5	359.8	370.9	377.9	383.5
27.5°	285.1	291.8	294.0	295.7	300.2	305.4	308.5	315.8	322.2	330.3	340.3
30°	242.7	249.2	253.6	256.1	260.3	265.3	267.5	272.3	280.6	289.6	297.4
32.5°	203.2	209.9	212.1	220.2	221.3	226.0	227.7	235.2	240.0	247.5	256.7
35°	164.4	171.4	178.1	182.5	187.6	187.3	191.7	198.7	202.9	210.7	216.8
37.5°	138.0	142.1	146.9	151.9	157.5	161.6	165.8	168.9	172.2	177.5	183.1
40°	126.2	127.4	129.3	132.4	136.3	139.3	142.4	144.9	147.4	151.6	155.2
42.5°	121.5	120.7	120.7	120.1	121.5	123.2	125.7	126.5	130.4	132.9	134.3
45°	118.2	116.2	114.8	113.1	112.6	113.1	114.5	116.5	119.0	119.8	119.8
47.5°	116.2	113.1	110.9	108.4	107.0	107.0	107.9	109.2	110.6	110.9	110.6
50°	109.5	106.5	103.7	101.4	100.3	100.3	100.6	102.6	102.8	102.3	102.6
52.5°	104.5	101.4	98.7	96.7	95.3	95.6	96.4	97.3	98.1	97.5	97.0
55°	101.4	97.8	95.3	93.1	91.4	92.0	92.8	93.9	95.3	94.5	93.6
57.5°	98.7	95.6	92.5	90.3	88.3	88.9	89.7	91.4	93.1	91.4	90.3
60°	96.1	93.1	90.0	87.8	85.6	86.1	87.2	88.9	90.3	88.1	86.7
62.5°	90.0	87.2	85.0	83.9	82.5	83.3	84.2	86.1	85.6	83.3	81.7
63°	88.9	86.1	84.2	83.1	81.9	83.1	83.3	85.3	84.4	82.2	80.8
65°	85.6	83.3	81.4	80.3	79.1	79.7	79.7	80.5	79.4	77.8	76.6
67.5°	82.5	80.0	78.0	75.8	74.7	74.1	73.9	73.6	72.7	71.9	71.6
70°	75.8	74.1	72.5	70.5	68.8	67.7	67.2	66.6	66.1	65.8	65.5
72.5°	68.6	67.2	65.5	64.4	63.0	62.1	60.8	60.5	59.9	59.4	59.1
75°	60.8	59.1	58.5	57.4	56.6	56.0	54.9	54.6	54.1	53.2	53.0
77.5°	53.8	53.2	52.4	52.1	50.7	49.9	49.3	49.1	48.5	47.9	47.4
80°	47.9	47.7	47.1	46.8	46.0	44.9	44.3	44.6	43.8	43.5	42.6
82.5°	43.2	43.5	43.5	42.6	41.8	40.4	39.9	40.7	40.1	39.0	37.9
85°	36.8	36.5	36.8	36.5	34.8	33.4	32.9	33.4	33.2	31.5	31.2
87.5°	26.2	25.9	25.4	27.0	24.8	20.1	20.6	23.4	22.6	21.7	21.2
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):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0
2.5°	467.4	466.5	467.1	467.4	466.5	468.5	466.5	466.8	467.4	465.7	465.4
5°	479.6	479.6	481.9	482.1	481.9	484.4	484.1	484.4	483.8	483.5	482.4
7.5°	489.7	490.8	492.5	495.0	495.8	497.7	498.3	498.6	499.7	500.8	500.3
10°	496.9	500.0	501.4	503.9	506.4	507.8	509.2	511.4	512.2	513.1	512.0
12.5°	501.9	505.6	507.8	510.8	513.9	516.1	518.6	521.4	524.2	525.1	523.7
15°	499.4	503.6	506.9	510.3	515.0	519.2	523.9	529.0	532.6	534.0	532.3
17.5°	483.8	488.0	493.0	498.0	503.0	510.8	517.5	525.9	531.7	535.9	536.5
20°	462.4	464.9	472.1	477.1	485.2	494.4	504.4	514.2	520.9	528.4	532.9
22.5°	430.6	435.6	443.7	452.3	460.4	472.4	483.0	495.8	507.2	517.5	527.3
25°	391.8	398.8	408.3	420.3	430.9	443.7	459.0	473.2	492.5	508.6	529.5
27.5°	350.0	362.9	376.0	388.5	400.2	414.7	430.6	446.5	468.5	494.4	521.7
30°	310.5	321.1	337.5	352.0	365.6	383.5	399.9	417.5	438.4	469.0	500.0
32.5°	269.2	277.9	290.7	308.5	324.4	345.3	359.8	380.7	404.9	437.3	472.4
35°	226.6	238.6	248.9	261.1	273.1	294.0	315.8	338.9	366.8	401.3	439.8
37.5°	189.0	196.5	201.5	214.0	224.6	242.5	267.8	295.7	326.4	361.5	402.7
40°	157.7	162.5	168.1	176.4	185.3	201.5	224.9	256.1	288.2	323.3	364.5
42.5°	136.3	139.3	139.9	146.3	154.7	170.6	189.2	217.9	253.3	290.1	331.4
45°	121.5	121.5	121.2	124.0	130.7	144.4	161.4	187.0	220.7	259.2	302.1
47.5°	111.2	112.0	111.8	112.9	117.3	127.4	142.7	164.4	195.1	232.7	275.9
50°	103.4	104.5	104.8	105.1	106.7	115.1	128.2	145.8	173.1	209.0	252.5
52.5°	97.3	97.5	97.5	97.3	97.8	102.6	113.4	129.6	155.0	187.3	229.1
55°	93.9	94.2	94.2	94.2	94.2	97.3	105.1	118.2	138.5	168.9	206.8
57.5°	90.0	90.0	90.6	90.6	90.6	91.7	97.3	108.1	123.7	148.0	181.7
60°	86.7	87.5	88.6	88.9	88.6	88.6	91.4	98.7	109.0	126.5	155.0
62.5°	81.7	82.8	84.2	84.7	85.0	84.4	85.8	88.9	95.0	104.2	123.5
63°	80.8	81.9	83.1	83.6	83.9	83.3	84.4	87.0	92.0	99.5	116.8
65°	77.2	78.6	78.9	79.1	78.9	78.6	78.3	78.3	79.7	82.5	91.7
67.5°	72.2	73.0	73.0	73.6	72.2	71.6	71.1	70.5	69.7	70.0	73.3
70°	66.3	66.9	66.6	66.3	65.8	64.9	64.4	63.5	61.9	61.3	63.0
72.5°	59.6	60.2	60.2	60.2	59.1	58.5	58.0	57.4	56.9	57.4	58.0
75°	53.5	53.5	54.1	53.8	53.0	52.4	52.1	51.8	51.8	51.8	51.6
77.5°	47.7	47.4	47.4	46.5	46.0	45.7	46.3	46.5	46.3	45.7	45.4
80°	42.6	41.2	39.9	38.7	38.5	39.0	39.6	41.2	40.4	40.4	39.9
82.5°	36.2	33.2	31.2	31.5	30.7	30.9	31.5	33.4	32.9	33.2	34.3
85°	29.0	26.2	23.1	23.7	23.7	23.1	24.5	25.1	25.6	27.0	25.9
87.5°	20.3	17.8	14.8	12.8	13.4	13.9	14.5	13.9	12.3	12.8	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):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0
2.5°	464.9	465.1	465.1	463.2	462.6	463.2	462.9	462.9	461.2	461.5	461.0
5°	481.9	482.4	480.7	479.4	477.4	477.1	476.8	475.7	474.6	472.4	471.3
7.5°	500.0	497.5	496.9	494.4	493.6	491.3	489.7	488.0	486.6	485.5	484.6
10°	511.4	509.5	508.9	504.4	503.0	500.3	498.6	496.6	495.0	493.3	493.0
12.5°	521.7	518.4	516.4	510.3	507.5	504.4	503.0	501.4	500.8	500.5	501.6
15°	529.8	525.1	521.4	515.9	513.6	512.0	512.2	511.4	514.7	516.7	520.3
17.5°	535.1	533.1	532.3	528.1	529.5	529.5	533.4	535.4	541.5	546.5	551.5
20°	537.9	541.5	548.5	549.9	553.2	556.8	562.7	566.0	572.4	579.7	586.7
22.5°	540.4	555.7	569.9	580.5	588.0	596.4	600.6	607.6	612.0	617.3	627.9
25°	554.3	580.0	605.0	618.7	636.5	648.5	658.0	665.0	672.8	677.2	689.2
27.5°	550.4	583.0	616.5	641.6	669.4	692.0	712.1	725.4	735.5	751.6	761.7
30°	532.6	570.5	610.9	646.6	685.6	722.4	757.2	788.4	815.2	836.9	851.7
32.5°	507.2	550.7	598.1	642.1	692.0	741.0	791.2	838.9	884.3	920.2	942.8
35°	478.8	525.6	578.0	630.1	690.0	754.1	821.9	886.0	951.7	1009.2	1054.3
37.5°	444.2	495.0	552.4	612.8	681.7	758.6	843.9	931.1	1015.0	1102.0	1165.5
40°	408.0	457.6	517.3	586.4	665.8	756.4	860.9	974.0	1095.5	1207.6	1304.3
42.5°	377.1	425.6	488.0	556.3	641.8	748.0	872.3	1012.5	1162.2	1307.4	1435.8
45°	346.7	398.5	461.5	533.7	627.1	744.7	887.1	1045.9	1216.8	1389.0	1552.9
47.5°	322.7	374.0	437.5	515.0	615.1	742.7	901.0	1077.2	1261.4	1449.8	1644.0
50°	299.9	348.9	410.8	492.5	602.5	739.7	909.4	1102.0	1296.2	1497.4	1708.7
52.5°	276.5	327.5	387.7	466.8	586.1	733.5	911.9	1121.5	1332.2	1543.1	1769.2
55°	252.8	303.8	364.0	445.9	563.8	721.5	909.9	1135.7	1369.8	1591.3	1824.3
57.5°	223.8	274.0	336.9	419.4	535.1	697.6	900.5	1141.8	1393.2	1636.5	1879.8
60°	191.2	238.6	298.2	382.4	500.0	663.0	879.3	1133.2	1403.8	1666.3	1938.6
62.5°	150.2	191.5	246.4	330.0	449.0	613.1	833.0	1095.0	1378.1	1658.8	1964.0
63°	141.0	180.9	237.4	316.0	433.9	595.8	819.4	1081.9	1366.7	1651.8	1960.9
65°	107.6	137.1	183.9	254.2	366.8	516.1	747.5	1007.8	1294.8	1582.4	1912.7
67.5°	79.4	94.8	123.5	170.6	258.1	401.6	612.6	870.4	1142.1	1412.4	1748.5
70°	65.8	71.6	85.0	109.2	159.7	266.4	432.8	662.5	918.0	1150.7	1454.2
72.5°	58.8	63.0	69.1	80.0	100.9	156.3	281.5	430.0	639.3	840.5	1096.9
75°	52.7	55.5	60.5	66.9	76.4	97.8	148.8	255.0	390.7	566.3	752.5
77.5°	46.3	49.1	54.1	59.1	65.2	74.4	92.2	145.2	233.8	330.5	461.8
80°	40.1	41.5	45.7	53.0	57.4	64.9	70.8	90.9	127.4	173.1	246.1
82.5°	33.2	33.4	36.2	41.8	47.4	50.2	51.8	57.1	73.3	91.4	120.7
85°	23.7	22.6	24.2	26.5	30.9	28.4	30.4	32.0	39.0	47.1	86.4
87.5°	10.6	8.4	9.8	10.9	9.8	6.7	9.8	8.1	10.0	19.8	22.3
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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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	461.0	0°
2.5°	461.5	459.8	459.8	459.6	459.8	459.3	458.2	458.2	459.0	458.7	458.7	2.5°
5°	471.3	469.0	468.5	468.2	468.2	466.8	465.1	464.3	464.0	462.9	462.1	5°
7.5°	484.1	482.7	483.5	481.9	481.3	481.0	478.8	477.1	474.6	473.5	469.3	7.5°
10°	494.7	493.8	496.1	495.8	496.1	496.1	493.0	491.3	487.7	485.8	480.5	10°
12.5°	503.9	504.4	508.6	508.6	509.5	510.6	508.9	505.3	503.9	501.9	496.4	12.5°
15°	527.3	529.5	532.6	537.6	539.0	539.3	540.7	537.6	534.0	529.0	522.3	15°
17.5°	559.1	563.5	573.8	581.1	582.5	583.9	583.0	582.5	575.8	571.6	564.6	17.5°
20°	598.9	609.8	624.3	634.3	638.8	639.3	644.9	641.0	634.9	626.5	616.5	20°
22.5°	643.5	661.6	680.0	694.8	703.4	707.3	713.2	707.6	699.5	694.5	681.1	22.5°
25°	704.5	724.3	745.5	757.2	779.2	785.6	789.0	787.3	779.0	782.6	770.3	25°
27.5°	788.1	805.1	835.0	849.7	870.4	882.3	879.8	893.8	896.3	904.9	906.3	27.5°
30°	879.3	907.4	947.6	977.4	1008.9	1029.2	1045.4	1057.6	1071.9	1095.8	1110.3	30°
32.5°	977.7	1018.3	1069.6	1132.9	1199.8	1254.4	1316.0	1326.6	1358.4	1349.2	1343.0	32.5°
35°	1087.2	1138.5	1204.2	1287.3	1384.6	1474.8	1534.2	1564.0	1576.6	1583.5	1541.2	35°
37.5°	1233.8	1303.2	1376.5	1467.0	1541.5	1625.9	1694.2	1768.3	1802.3	1786.2	1705.1	37.5°
40°	1396.3	1461.2	1560.4	1634.5	1722.3	1861.4	1953.9	2043.1	2071.0	2017.2	1890.1	40°
42.5°	1559.3	1648.5	1756.1	1861.4	1962.3	2088.3	2210.9	2298.9	2329.6	2237.6	2086.9	42.5°
45°	1704.5	1818.8	1945.3	2053.4	2194.4	2359.1	2509.4	2580.2	2574.6	2426.9	2257.1	45°
47.5°	1831.0	1979.3	2122.0	2267.7	2409.9	2595.8	2744.6	2826.0	2768.3	2613.0	2420.7	47.5°
50°	1935.5	2114.7	2287.0	2454.5	2628.9	2826.5	2970.0	3045.3	2957.5	2761.0	2546.2	50°
52.5°	2015.0	2237.1	2435.5	2622.8	2831.3	3044.7	3172.4	3217.8	3081.0	2875.6	2640.1	52.5°
55°	2089.9	2341.0	2560.6	2773.3	3032.8	3224.2	3343.8	3335.4	3158.7	2925.5	2698.9	55°
57.5°	2146.5	2429.7	2663.5	2905.7	3185.2	3389.8	3458.9	3403.7	3191.0	2940.2	2715.9	57.5°
60°	2217.8	2498.8	2754.9	3025.2	3330.1	3503.2	3512.4	3413.4	3181.9	2912.4	2691.9	60°
62.5°	2263.6	2542.0	2813.1	3107.2	3440.5	3567.0	3501.2	3371.4	3128.9	2843.5	2637.0	62.5°
63°	2268.0	2546.2	2817.9	3115.2	3456.1	3569.8	3490.9	3352.4	3113.3	2824.6	2622.5	63°
65°	2247.9	2534.2	2796.1	3100.8	3460.0	3536.9	3415.4	3274.7	3027.2	2727.9	2537.2	65°
67.5°	2107.8	2405.4	2655.4	2941.1	3309.5	3352.1	3230.3	3077.3	2844.9	2519.4	2350.8	67.5°
70°	1856.7	2139.5	2316.8	2582.1	2906.2	2957.2	2848.3	2729.8	2523.3	2251.3	2111.4	70°
72.5°	1495.8	1773.6	1880.1	2083.2	2340.8	2329.6	2253.0	2238.2	2129.5	1901.3	1817.1	72.5°
75°	1118.1	1382.6	1427.5	1510.2	1654.1	1650.4	1668.3	1731.8	1786.2	1651.3	1543.4	75°
77.5°	737.4	1000.5	1028.4	1124.8	1164.7	1273.9	1402.1	1561.8	1641.0	1585.8	1453.4	77.5°
80°	408.0	684.5	678.9	716.5	787.0	945.9	1140.1	1377.3	1535.6	1496.0	1351.1	80°
82.5°	212.1	432.5	426.1	432.8	498.3	631.8	779.5	973.5	1137.1	1140.7	1091.9	82.5°
85°	157.7	310.5	328.9	343.9	387.4	433.9	461.0	523.1	612.8	696.5	726.3	85°
87.5°	58.0	186.4	232.2	249.4	250.5	244.7	199.3	219.3	199.5	236.1	329.7	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°
461.0	461.0	461.0	461.0	461.0	461.0	461.0
459.3	459.3	459.0	459.6	459.8	460.7	460.4
461.2	460.4	459.6	459.0	458.5	458.7	458.2
466.3	463.5	461.2	459.3	457.6	457.3	455.7
477.4	472.4	468.2	465.1	461.8	460.1	457.1
491.6	486.0	480.7	476.3	472.4	470.2	467.9
516.4	508.3	501.9	497.2	493.3	490.8	488.6
553.2	543.2	533.4	524.2	523.1	517.3	517.3
603.9	590.3	577.7	569.9	566.3	558.5	558.5
674.2	660.8	642.1	632.6	633.5	626.8	629.8
765.0	753.9	734.6	730.7	730.7	723.5	712.6
901.3	897.4	876.2	881.5	870.4	843.3	814.1
1103.6	1103.6	1062.7	1033.1	1007.5	965.4	913.8
1306.2	1279.8	1217.1	1166.9	1113.7	1049.3	983.0
1477.4	1406.8	1343.3	1282.0	1202.0	1132.9	1039.8
1621.7	1554.8	1482.1	1388.7	1294.8	1198.4	1078.8
1800.6	1719.3	1610.0	1492.7	1377.3	1244.6	1106.1
1964.2	1862.2	1724.3	1575.7	1428.9	1280.9	1119.2
2118.1	1986.5	1816.3	1637.9	1470.7	1303.2	1124.8
2263.0	2086.6	1888.4	1682.2	1499.4	1315.2	1123.4
2358.6	2159.9	1933.9	1709.0	1516.7	1319.3	1119.5
2418.5	2204.7	1960.6	1723.7	1525.3	1320.2	1119.2
2452.2	2230.1	1975.1	1734.0	1534.8	1325.2	1125.9
2478.4	2250.2	1991.3	1751.6	1557.3	1348.6	1153.0
2503.2	2302.9	2033.4	1783.9	1596.6	1392.4	1212.3
2513.5	2402.9	2118.9	1843.6	1651.5	1462.6	1304.8
2512.7	2421.9	2143.7	1860.0	1666.0	1481.3	1328.5
2482.3	2482.1	2256.6	1938.6	1733.5	1567.7	1427.5
2392.3	2512.1	2381.4	2042.3	1838.3	1710.1	1576.3
2249.9	2475.6	2398.4	2069.6	1912.7	1840.8	1675.5
2004.6	2301.2	2239.3	1953.1	1887.3	1866.4	1678.0
1621.4	1850.0	1823.5	1668.5	1692.8	1735.7	1498.8
1306.2	1299.0	1295.1	1238.8	1341.9	1429.1	1114.2
1091.1	898.8	834.7	813.0	983.0	1049.8	691.4
1020.0	807.4	647.7	620.4	736.6	772.3	416.9
779.5	784.0	678.6	581.6	573.0	524.5	305.4
381.5	387.9	410.0	374.3	321.1	270.6	96.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)