

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: SHAPER

Report Number: P368748

Luminaire Tested: **674-WP-31-L3/830**

Issue Date: 11/13/2019

Test Information

Test Method: LM-79-08
Report Number: P368748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1804-721-13)
Test Lab: INNOVATIONS CENTER
Issue Date: 11/13/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 674-WP-31-L3/830
Description: 31" 674 SERIES LUMINOUS WALL SCONCE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

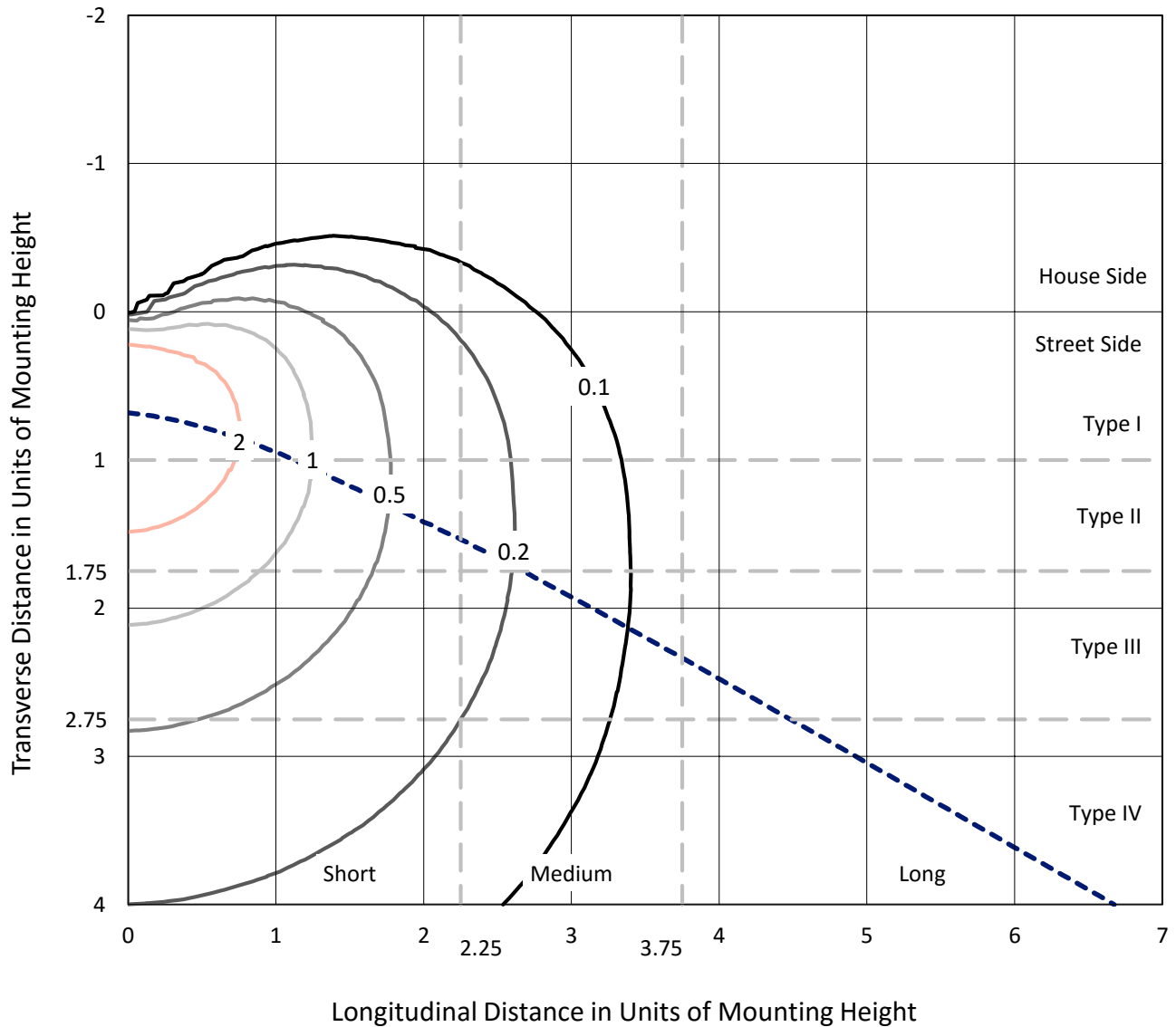
Lumens per Lamp: N/A
Luminaire Lumens: 1635.3 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.71' x L: 0.21' x H: 2.58')
IES Classification: Type - Short - Non-Cutoff
BUG Rating: B0 - U4 - G2

Input Watts (W): 21.2
Input Voltage (V): 120
Input Current (A_{in}): 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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

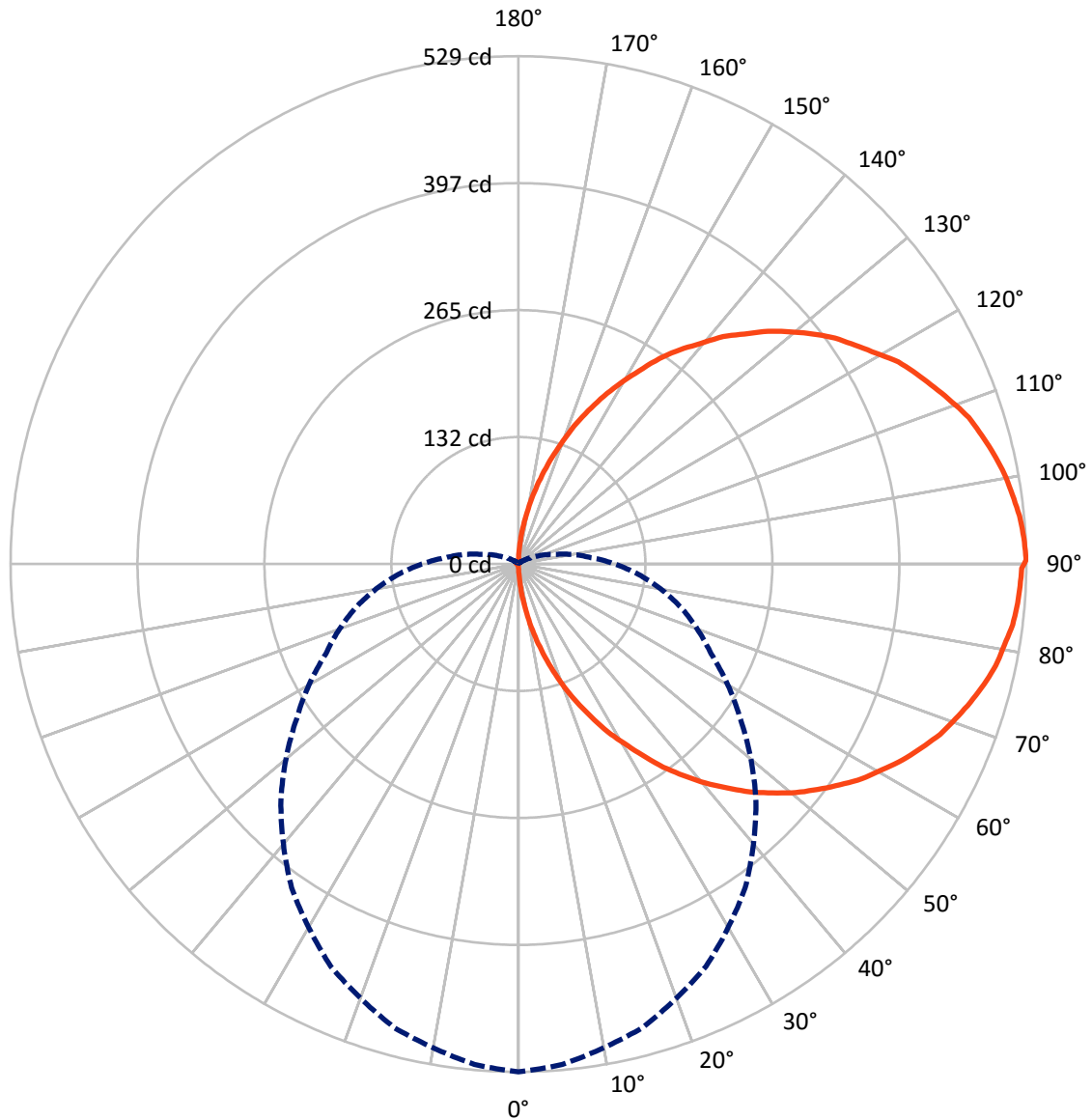
× Max cd
 - - - 1/2 Max cd



Based on 6 foot mounting height. Maximum calculated value = 4 fc
 Type - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 90-Deg Vertical

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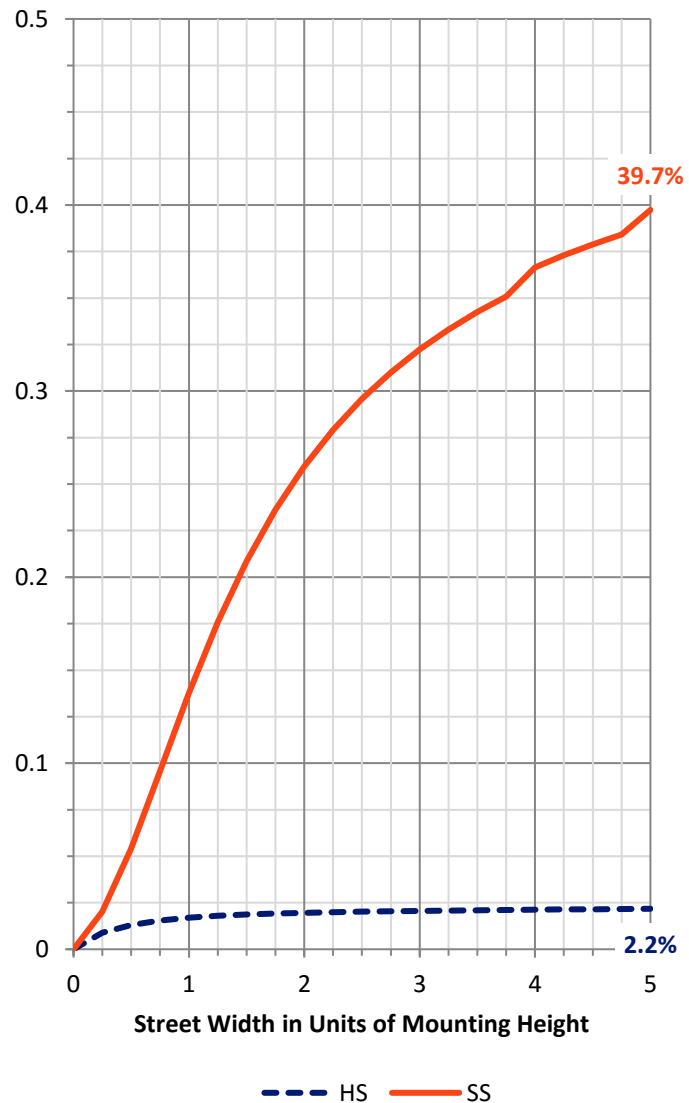
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	37.6	37.0	74.6
	% Fixture	2.3	2.3	4.6
Street Side	Lumens	781.4	779.3	1560.7
	% Fixture	47.8	47.7	95.4
Total	Lumens	818.9	816.4	1635.3
	% Fixture	50.1	49.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.2	0.1
10°-20°	9.4	0.6
20°-30°	27.1	1.7
30°-40°	53.6	3.3
40°-50°	86.4	5.3
50°-60°	120.7	7.4
60°-70°	152.4	9.3
70°-80°	177.2	10.8
80°-90°	190.9	11.7
90°-100°	191.6	11.7
100°-110°	177.0	10.8
110°-120°	151.8	9.3
120°-130°	119.9	7.3
130°-140°	85.7	5.2
140°-150°	53.2	3.3
150°-160°	26.8	1.6
160°-170°	9.2	0.6
170°-180°	1.1	0.1
0°-90°	818.9	50.1
0°-180°	1635.3	100.0



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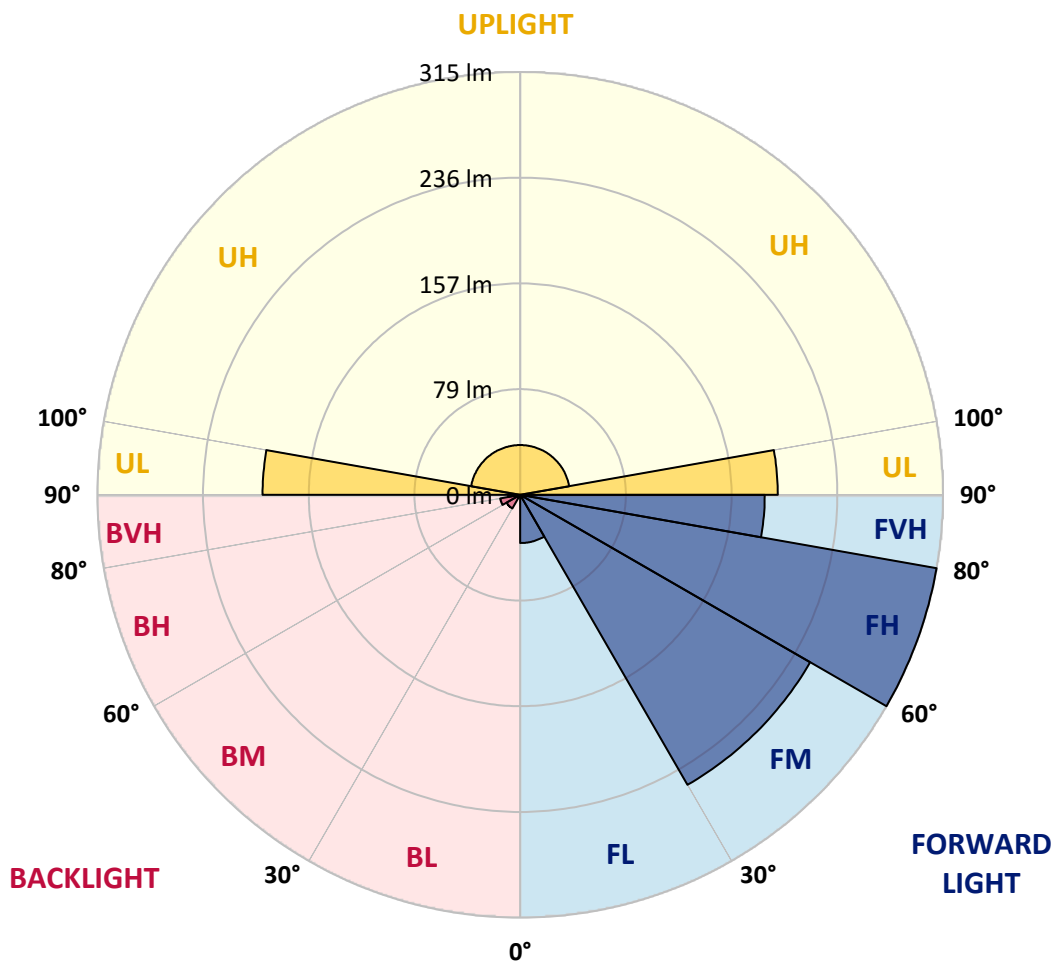
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	35.9	2.2			
FM (30°-60°)	249.1	15.2			
FH (60°-80°)	314.5	19.2			G0/660
FVH (80°-90°)	181.9	11.1			G2/225
BL (0°-30°)	1.9	0.1	B0/110		
BM (30°-60°)	11.7	0.7	B0/220		
BH (60°-80°)	15.1	0.9	B0/110		G0/110
BVH (80°-90°)	8.9	0.5			G0/10
UL (90°-100°)	191.6	11.7		U3/500	
UH (100°-180°)	37.0	2.3		U2/50	

BUG Rating: B0-U4-G2

Type Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
2.5°	10.3	8.4	8.4	8.4	6.6	6.6	5.6	4.7	3.8	2.8	2.8
5°	25.3	24.4	23.5	22.5	18.8	16.0	13.1	10.3	8.4	5.6	4.7
7.5°	41.3	40.4	38.5	36.6	31.0	26.3	21.6	16.9	14.1	9.4	7.5
10°	59.1	57.2	55.4	50.7	44.1	37.5	30.0	23.5	18.8	13.1	11.3
12.5°	77.9	76.0	73.2	67.6	58.2	49.7	39.4	31.0	24.4	17.8	14.1
15°	96.7	95.7	91.0	83.5	73.2	61.9	48.8	38.5	30.0	21.6	17.8
17.5°	117.3	114.5	109.8	100.4	88.2	74.1	59.1	46.0	36.6	26.3	20.6
20°	137.0	134.2	128.6	117.3	103.2	86.3	68.5	54.4	42.2	30.0	24.4
22.5°	156.7	153.9	147.3	134.2	118.3	99.5	78.8	61.9	48.8	34.7	28.2
25°	176.4	174.6	166.1	151.1	133.3	111.7	89.2	70.4	55.4	39.4	31.9
27.5°	198.0	194.3	184.9	168.9	149.2	125.8	100.4	78.8	61.9	44.1	35.7
30°	216.8	215.9	205.5	186.8	165.2	138.9	109.8	87.3	68.5	48.8	38.5
32.5°	237.4	235.6	223.4	204.6	180.2	152.0	120.1	95.7	75.1	53.5	42.2
35°	260.0	257.2	245.0	222.4	196.2	165.2	131.4	104.2	81.7	58.2	46.9
37.5°	279.7	277.8	264.7	240.3	212.1	178.3	141.7	112.6	88.2	62.9	50.7
40°	300.3	297.5	282.5	259.0	227.1	191.5	153.0	121.1	94.8	67.6	54.4
42.5°	319.1	316.3	301.3	275.9	243.1	203.7	163.3	128.6	101.4	72.3	58.2
45°	338.8	335.1	320.0	292.8	259.0	216.8	173.6	137.0	107.9	77.0	61.9
47.5°	356.6	352.9	336.9	308.8	273.1	229.0	183.0	144.5	114.5	81.7	64.8
50°	374.5	370.7	352.9	323.8	287.2	242.1	192.4	153.0	120.1	86.3	68.5
52.5°	390.4	386.7	367.9	337.9	300.3	253.4	200.8	159.5	125.8	90.1	71.3
55°	406.4	402.6	383.9	351.9	313.5	264.7	210.2	167.1	131.4	93.9	75.1
57.5°	422.3	417.6	397.0	366.0	324.7	275.0	218.7	173.6	136.1	97.6	77.9
60°	435.5	431.7	411.1	378.2	336.0	284.4	226.2	179.3	141.7	101.4	80.7
62.5°	449.6	444.9	424.2	390.4	346.3	294.7	233.7	184.9	146.4	105.1	83.5
65°	461.8	457.1	435.5	400.7	356.6	302.2	242.1	191.5	151.1	107.9	86.3
67.5°	474.0	468.3	446.7	412.0	366.0	310.6	248.7	196.2	154.9	110.7	88.2
70°	483.3	478.6	456.1	421.4	374.5	318.2	256.2	200.8	158.6	113.6	91.0
72.5°	492.7	488.0	464.6	429.8	382.0	324.7	261.8	205.5	162.4	116.4	92.9
75°	501.2	496.5	473.0	437.4	389.5	330.4	266.5	209.3	165.2	118.3	94.8
77.5°	508.7	503.0	480.5	443.9	394.2	336.0	270.3	212.1	168.0	120.1	96.7
80°	513.4	508.7	485.2	448.6	398.9	338.8	273.1	214.9	169.9	122.0	97.6
82.5°	519.0	513.4	489.9	452.4	403.6	342.6	275.9	216.8	171.7	122.9	98.5
85°	521.8	516.2	492.7	456.1	406.4	345.4	278.7	218.7	172.7	123.9	99.5
87.5°	523.7	518.1	495.5	458.0	408.3	347.3	279.7	219.6	173.6	124.8	99.5
89°	524.6	519.0	495.5	458.0	408.3	347.3	279.7	219.6	173.6	124.8	100.4
90°	529.3	523.7	500.2	462.7	412.0	350.1	282.5	221.5	175.5	125.8	100.4
92.5°	527.4	522.8	498.4	461.8	411.1	349.1	281.6	220.6	174.6	124.8	100.4
95°	524.6	519.9	495.5	458.9	408.3	347.3	279.7	218.7	173.6	123.9	99.5
97.5°	519.9	515.2	491.8	454.2	404.5	343.5	276.9	216.8	171.7	122.9	98.5
100°	515.2	510.6	487.1	450.5	400.7	340.7	274.0	214.9	169.9	122.0	97.6
102.5°	508.7	504.9	481.5	444.9	395.1	336.0	270.3	212.1	167.1	120.1	95.7
105°	501.2	496.5	473.0	437.4	388.5	330.4	265.6	208.4	165.2	118.3	93.9
107.5°	493.7	488.0	464.6	428.9	382.0	323.8	260.9	204.6	161.4	115.4	92.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	482.4	478.6	455.2	420.5	373.5	317.2	255.3	199.9	157.7	112.6	90.1
112.5°	471.1	467.4	445.8	411.1	365.1	309.7	249.6	195.2	153.9	109.8	88.2
115°	459.9	456.1	434.5	400.7	355.7	301.3	241.2	189.6	149.2	107.0	85.4
117.5°	448.6	443.9	422.3	389.5	345.4	292.8	232.8	183.9	145.5	104.2	82.6
120°	432.7	429.8	409.2	377.3	334.1	283.4	225.2	177.4	139.8	100.4	79.8
122.5°	418.6	415.8	395.1	364.1	322.9	273.1	217.7	171.7	135.1	96.7	77.0
125°	405.4	400.7	381.0	351.0	310.6	262.8	209.3	164.2	130.5	92.9	74.1
127.5°	389.5	384.8	366.0	336.9	298.4	252.5	199.9	157.7	124.8	88.2	71.3
130°	372.6	368.8	350.1	321.9	284.4	238.4	191.5	150.2	119.2	84.5	67.6
132.5°	355.7	351.9	334.1	306.9	271.2	227.1	182.1	142.7	112.6	80.7	63.8
135°	336.0	334.1	317.2	290.9	257.2	214.9	171.7	135.1	107.0	76.0	61.0
137.5°	319.1	315.3	299.4	275.0	240.3	202.7	162.4	127.6	100.4	71.3	57.2
140°	297.5	296.6	280.6	258.1	225.2	189.6	152.0	119.2	93.9	66.6	53.5
142.5°	279.7	276.9	262.8	238.4	210.2	176.4	141.7	111.7	87.3	61.9	49.7
145°	260.0	257.2	242.1	220.6	195.2	164.2	130.5	103.2	80.7	57.2	46.0
147.5°	237.4	234.6	223.4	203.7	179.3	151.1	120.1	94.8	74.1	52.6	42.2
150°	216.8	214.9	202.7	185.8	164.2	138.0	109.8	86.3	67.6	47.9	38.5
152.5°	196.2	194.3	184.9	168.0	148.3	123.9	99.5	77.9	61.0	43.2	34.7
155°	175.5	173.6	165.2	150.2	132.3	110.7	89.2	69.5	54.4	38.5	31.0
157.5°	154.9	153.0	145.5	132.3	116.4	97.6	77.9	61.0	47.9	33.8	27.2
160°	132.3	133.3	125.8	114.5	101.4	85.4	67.6	53.5	41.3	30.0	23.5
162.5°	112.6	112.6	107.0	97.6	86.3	72.3	57.2	45.0	35.7	25.3	20.6
165°	92.0	92.9	87.3	79.8	70.4	60.1	46.9	37.5	29.1	20.6	16.9
167.5°	73.2	74.1	69.5	63.8	56.3	47.9	38.5	30.0	23.5	16.9	14.1
170°	54.4	55.4	51.6	47.9	42.2	35.7	29.1	23.5	17.8	13.1	10.3
172.5°	37.5	38.5	35.7	32.8	29.1	25.3	20.6	16.0	13.1	9.4	7.5
175°	21.6	22.5	20.6	18.8	16.9	15.0	12.2	9.4	7.5	5.6	4.7
177.5°	6.6	6.6	6.6	5.6	5.6	4.7	4.7	3.8	3.8	2.8	2.8
180°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
2.5°	2.8	2.8	2.8	1.9	1.9	0.9	0.9	0.9	0.0	0.0
5°	3.8	2.8	2.8	1.9	1.9	0.9	0.9	0.0	0.0	0.0
7.5°	6.6	3.8	2.8	1.9	1.9	0.9	0.9	0.9	0.0	0.0
10°	8.4	4.7	2.8	1.9	1.9	0.9	0.9	0.9	0.0	0.0
12.5°	11.3	6.6	2.8	1.9	1.9	0.9	0.9	0.0	0.0	0.0
15°	13.1	7.5	3.8	1.9	0.9	0.9	0.9	0.0	0.0	0.0
17.5°	16.0	8.4	3.8	1.9	0.9	0.9	0.9	0.0	0.0	0.0
20°	18.8	9.4	4.7	1.9	0.9	0.9	0.9	0.0	0.0	0.0
22.5°	21.6	11.3	4.7	1.9	0.9	0.9	0.9	0.0	0.0	0.0
25°	24.4	12.2	5.6	1.9	0.9	0.9	0.9	0.0	0.0	0.0
27.5°	27.2	14.1	5.6	1.9	0.9	0.9	0.9	0.0	0.0	0.0
30°	30.0	15.0	6.6	1.9	0.9	0.9	0.9	0.0	0.0	0.0
32.5°	32.8	16.9	6.6	1.9	0.9	0.9	0.9	0.0	0.0	0.0
35°	35.7	17.8	7.5	2.8	0.9	0.9	0.9	0.0	0.0	0.0
37.5°	38.5	19.7	8.4	2.8	0.9	0.9	0.0	0.0	0.0	0.0
40°	41.3	20.6	8.4	2.8	0.9	0.9	0.0	0.0	0.0	0.0
42.5°	44.1	22.5	9.4	2.8	0.9	0.9	0.9	0.0	0.0	0.0
45°	46.9	23.5	9.4	2.8	0.9	0.9	0.9	0.0	0.0	0.0
47.5°	49.7	25.3	10.3	2.8	0.9	0.9	0.9	0.0	0.0	0.0
50°	51.6	26.3	11.3	3.8	0.9	0.9	0.9	0.0	0.0	0.0
52.5°	54.4	27.2	11.3	3.8	0.9	0.9	0.9	0.0	0.0	0.0
55°	56.3	29.1	12.2	3.8	0.9	0.9	0.9	0.0	0.0	0.0
57.5°	59.1	30.0	12.2	3.8	0.9	0.9	0.9	0.0	0.0	0.0
60°	61.0	31.0	13.1	3.8	0.9	0.9	0.9	0.9	0.0	0.9
62.5°	63.8	31.9	13.1	3.8	0.9	0.9	0.9	0.9	0.9	0.9
65°	65.7	32.8	13.1	4.7	0.9	0.9	0.9	0.9	0.9	0.9
67.5°	67.6	33.8	14.1	4.7	0.9	0.9	0.9	0.9	0.9	0.9
70°	68.5	34.7	14.1	4.7	0.9	0.9	0.9	0.9	0.9	0.9
72.5°	70.4	35.7	15.0	4.7	0.9	0.9	0.9	0.9	0.9	0.9
75°	72.3	36.6	15.0	4.7	0.9	0.9	0.9	0.9	0.9	0.9
77.5°	73.2	37.5	15.0	4.7	1.9	0.9	0.9	0.9	0.9	0.9
80°	74.1	37.5	16.0	4.7	1.9	0.9	0.9	0.9	0.9	0.9
82.5°	75.1	38.5	16.0	5.6	1.9	0.9	0.9	0.9	0.9	0.9
85°	75.1	38.5	16.0	5.6	1.9	0.9	0.9	0.9	0.9	0.9
87.5°	76.0	38.5	16.0	5.6	1.9	1.9	0.9	0.9	0.9	0.9
89°	76.0	38.5	16.0	5.6	1.9	1.9	1.9	1.9	1.9	1.9
90°	76.0	38.5	16.0	5.6	1.9	1.9	1.9	1.9	0.9	0.9
92.5°	76.0	38.5	16.0	5.6	1.9	1.9	0.9	0.9	0.9	0.9
95°	75.1	38.5	16.0	4.7	1.9	0.9	0.9	0.9	0.9	0.9
97.5°	75.1	37.5	15.0	4.7	1.9	0.9	0.9	0.9	0.9	0.9
100°	74.1	37.5	15.0	4.7	1.9	0.9	0.9	0.9	0.9	0.9
102.5°	72.3	36.6	15.0	4.7	0.9	0.9	0.9	0.9	0.9	0.9
105°	71.3	35.7	15.0	4.7	0.9	0.9	0.9	0.9	0.9	0.9
107.5°	69.5	34.7	14.1	4.7	0.9	0.9	0.9	0.9	0.9	0.9



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	68.5	34.7	14.1	4.7	0.9	0.9	0.9	0.9	0.9	0.9
112.5°	66.6	33.8	13.1	4.7	0.9	0.9	0.9	0.9	0.9	0.9
115°	64.8	32.8	13.1	3.8	0.9	0.9	0.9	0.9	0.9	0.9
117.5°	62.9	31.0	13.1	3.8	0.9	0.9	0.9	0.9	0.9	0.9
120°	60.1	30.0	12.2	3.8	0.9	0.9	0.9	0.9	0.0	0.0
122.5°	58.2	29.1	12.2	3.8	0.9	0.9	0.9	0.9	0.0	0.0
125°	56.3	28.2	11.3	3.8	0.9	0.9	0.9	0.0	0.0	0.0
127.5°	53.5	27.2	11.3	3.8	0.9	0.9	0.9	0.0	0.0	0.0
130°	50.7	25.3	10.3	2.8	0.9	0.9	0.9	0.0	0.0	0.0
132.5°	48.8	24.4	9.4	2.8	0.9	0.9	0.9	0.0	0.0	0.0
135°	46.0	23.5	9.4	2.8	0.9	0.9	0.9	0.0	0.0	0.0
137.5°	43.2	21.6	8.4	2.8	0.9	0.9	0.9	0.0	0.0	0.0
140°	40.4	20.6	8.4	2.8	0.9	0.9	0.9	0.0	0.0	0.0
142.5°	37.5	18.8	7.5	2.8	0.9	0.9	0.9	0.0	0.0	0.0
145°	34.7	17.8	7.5	1.9	0.9	0.9	0.9	0.0	0.0	0.0
147.5°	31.9	16.0	6.6	1.9	0.9	0.9	0.9	0.0	0.0	0.0
150°	29.1	15.0	6.6	1.9	0.9	0.9	0.9	0.0	0.0	0.0
152.5°	26.3	14.1	5.6	1.9	0.9	0.9	0.9	0.0	0.0	0.0
155°	23.5	12.2	5.6	1.9	0.9	0.9	0.9	0.0	0.0	0.0
157.5°	20.6	11.3	4.7	1.9	0.9	0.9	0.9	0.0	0.0	0.0
160°	17.8	9.4	3.8	1.9	0.9	0.9	0.9	0.0	0.0	0.0
162.5°	16.0	8.4	3.8	1.9	0.9	0.9	0.9	0.0	0.0	0.0
165°	13.1	6.6	3.8	1.9	1.9	0.9	0.9	0.0	0.0	0.0
167.5°	10.3	5.6	2.8	1.9	1.9	0.9	0.9	0.0	0.0	0.0
170°	8.4	4.7	2.8	1.9	1.9	0.9	0.9	0.0	0.0	0.0
172.5°	5.6	3.8	2.8	1.9	1.9	0.9	0.9	0.0	0.0	0.0
175°	3.8	2.8	2.8	1.9	1.9	0.9	0.9	0.9	0.0	0.0
177.5°	2.8	2.8	2.8	1.9	1.9	0.9	0.9	0.9	0.0	0.0
180°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9

(END OF REPORT)