

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: P368747

Luminaire Tested: **674-WP-31-L3/827**

Issue Date: 11/13/2019

Test Information

Test Method: LM-79-08
Report Number: P368747
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-L3/827
Description: 31" 674 SERIES LUMINOUS WALL SCONCE
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

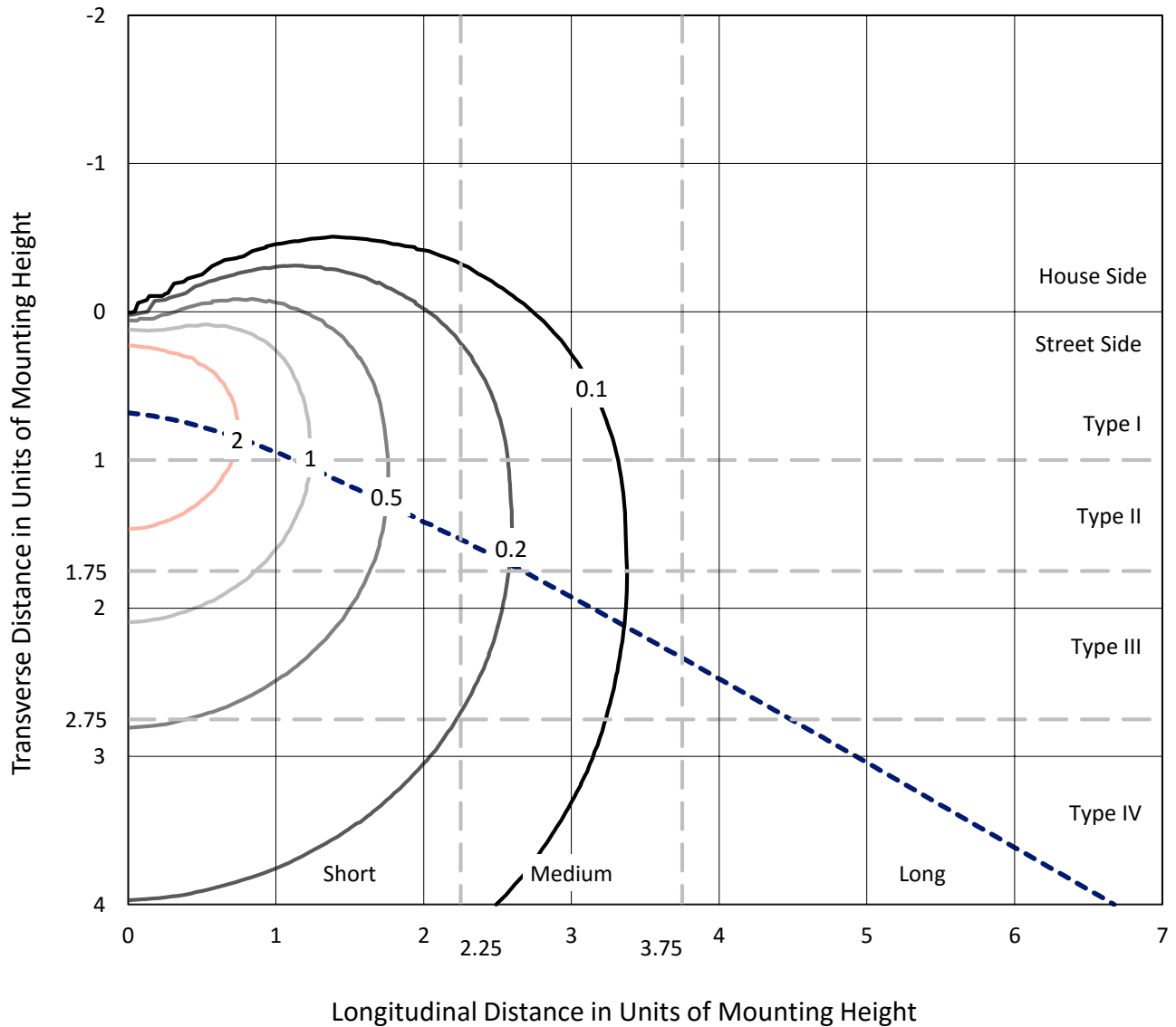
Lumens per Lamp: N/A
Luminaire Lumens: 1602.8 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.71' x L: 0.21' x H: 2.58')
IES Classification: Type - Short - Non-Cutoff
BUG Rating: B0 - U4 - G2

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

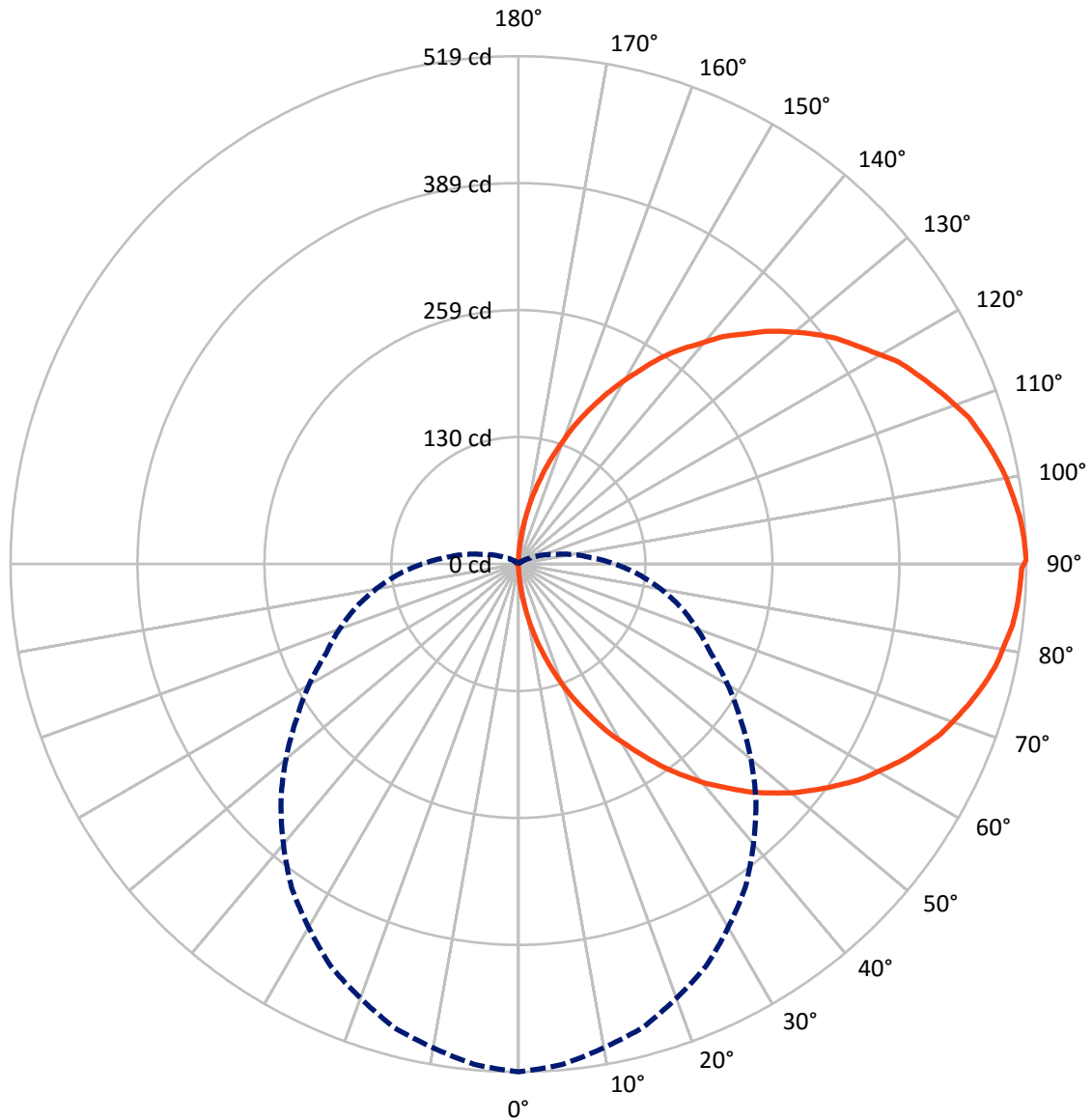


Based on 6 foot mounting height. Maximum calculated value = 3.9 fc
 Type - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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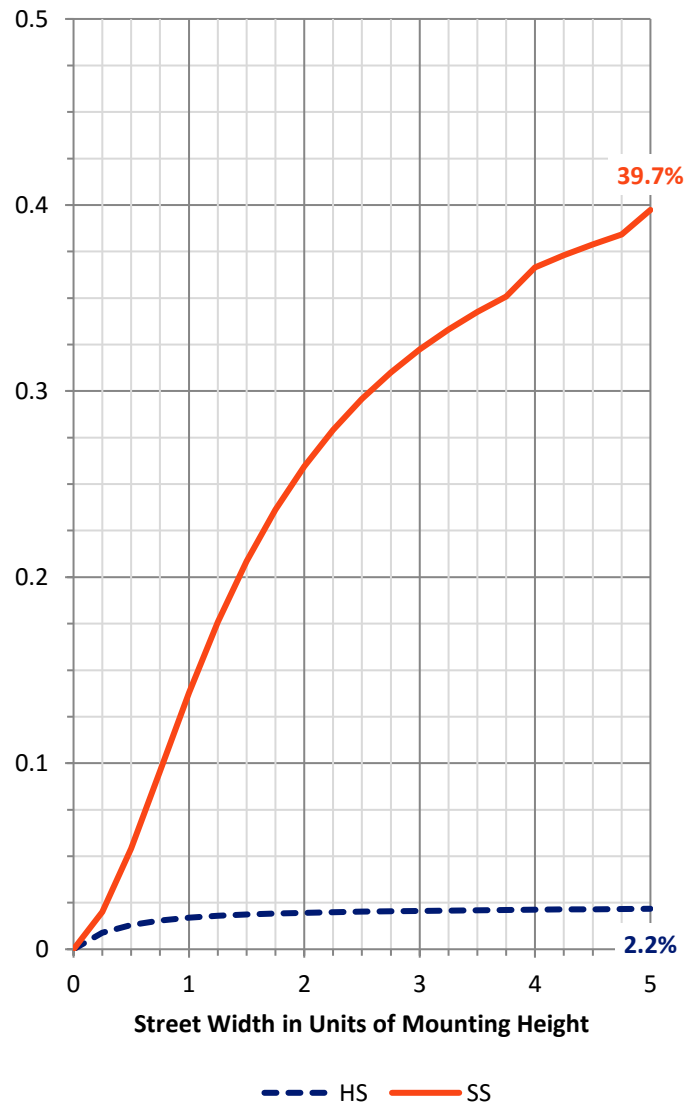
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	36.8	36.3	73.1
	% Fixture	2.3	2.3	4.6
Street Side	Lumens	765.8	763.9	1529.7
	% Fixture	47.8	47.7	95.4
Total	Lumens	802.7	800.1	1602.8
	% Fixture	50.1	49.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.2	0.1
10°-20°	9.2	0.6
20°-30°	26.6	1.7
30°-40°	52.5	3.3
40°-50°	84.7	5.3
50°-60°	118.4	7.4
60°-70°	149.4	9.3
70°-80°	173.6	10.8
80°-90°	187.1	11.7
90°-100°	187.8	11.7
100°-110°	173.5	10.8
110°-120°	148.8	9.3
120°-130°	117.5	7.3
130°-140°	84.0	5.2
140°-150°	52.2	3.3
150°-160°	26.3	1.6
160°-170°	9.0	0.6
170°-180°	1.1	0.1
0°-90°	802.7	50.1
0°-180°	1602.8	100.0



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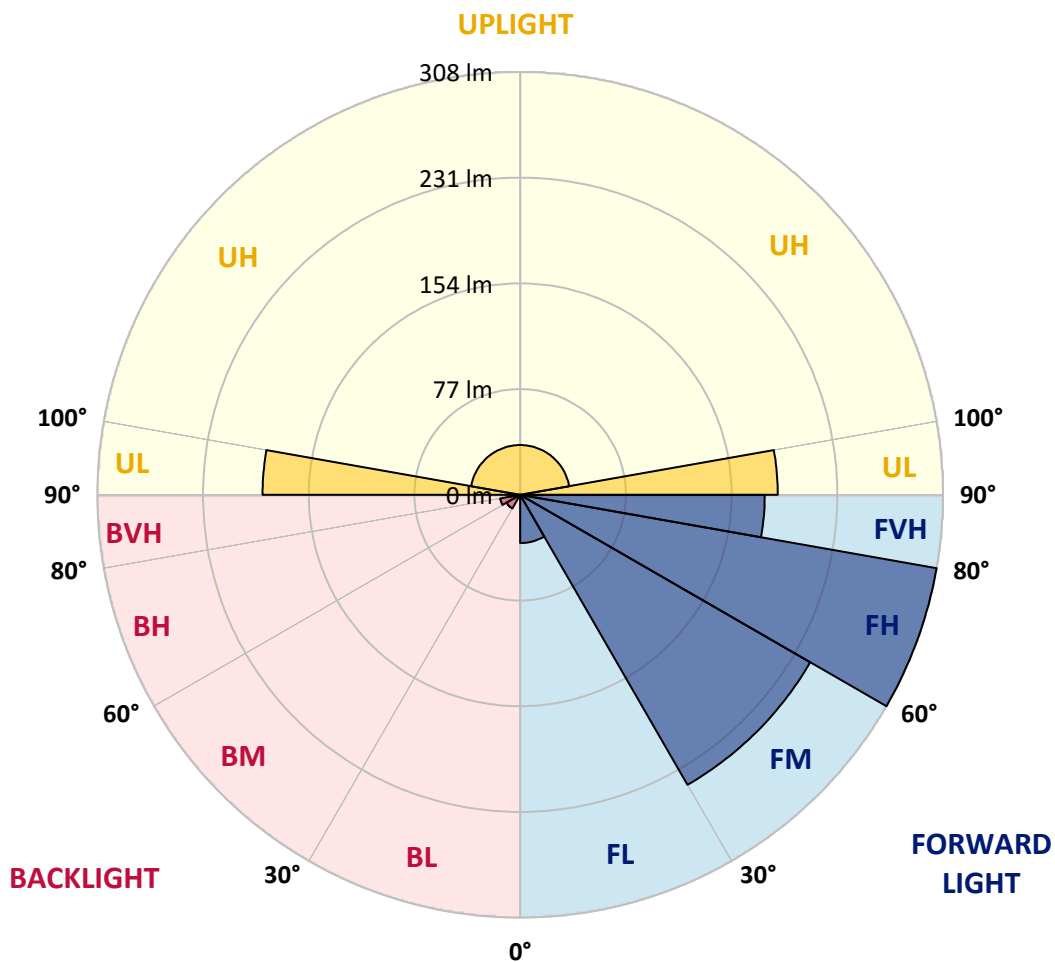
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	35.2	2.2			
FM	(30°-60°)	244.1	15.2			
FH	(60°-80°)	308.3	19.2			G0/660
FVH	(80°-90°)	178.3	11.1			G2/225
BL	(0°-30°)	1.8	0.1	B0/110		
BM	(30°-60°)	11.5	0.7	B0/220		
BH	(60°-80°)	14.8	0.9	B0/110		G0/110
BVH	(80°-90°)	8.8	0.5			G0/10
UL	(90°-100°)	187.8	11.7		U3/500	
UH	(100°-180°)	36.3	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°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
2.5°	10.1	8.3	8.3	8.3	6.4	6.4	5.5	4.6	3.7	2.8	2.8
5°	24.8	23.9	23.0	22.1	18.4	15.6	12.9	10.1	8.3	5.5	4.6
7.5°	40.5	39.6	37.7	35.9	30.4	25.8	21.2	16.6	13.8	9.2	7.4
10°	58.0	56.1	54.3	49.7	43.2	36.8	29.4	23.0	18.4	12.9	11.0
12.5°	76.4	74.5	71.8	66.2	57.0	48.8	38.6	30.4	23.9	17.5	13.8
15°	94.7	93.8	89.2	81.9	71.8	60.7	47.8	37.7	29.4	21.2	17.5
17.5°	115.0	112.2	107.6	98.4	86.5	72.7	58.0	45.1	35.9	25.8	20.2
20°	134.3	131.5	126.0	115.0	101.2	84.6	67.2	53.4	41.4	29.4	23.9
22.5°	153.6	150.9	144.4	131.5	115.9	97.5	77.3	60.7	47.8	34.0	27.6
25°	172.9	171.1	162.8	148.1	130.6	109.5	87.4	69.0	54.3	38.6	31.3
27.5°	194.1	190.4	181.2	165.6	146.3	123.3	98.4	77.3	60.7	43.2	35.0
30°	212.5	211.6	201.5	183.1	161.9	136.1	107.6	85.5	67.2	47.8	37.7
32.5°	232.7	230.9	218.9	200.5	176.6	149.0	117.7	93.8	73.6	52.4	41.4
35°	254.8	252.0	240.1	218.0	192.3	161.9	128.8	102.1	80.0	57.0	46.0
37.5°	274.1	272.3	259.4	235.5	207.9	174.8	138.9	110.4	86.5	61.6	49.7
40°	294.4	291.6	276.9	253.9	222.6	187.7	149.9	118.7	92.9	66.2	53.4
42.5°	312.8	310.0	295.3	270.4	238.3	199.6	160.1	126.0	99.3	70.8	57.0
45°	332.1	328.4	313.7	287.0	253.9	212.5	170.2	134.3	105.8	75.4	60.7
47.5°	349.6	345.9	330.2	302.6	267.7	224.5	179.4	141.7	112.2	80.0	63.5
50°	367.0	363.4	345.9	317.4	281.5	237.3	188.6	149.9	117.7	84.6	67.2
52.5°	382.7	379.0	360.6	331.2	294.4	248.4	196.9	156.4	123.3	88.3	69.9
55°	398.3	394.6	376.2	345.0	307.2	259.4	206.1	163.7	128.8	92.0	73.6
57.5°	413.9	409.3	389.1	358.8	318.3	269.5	214.3	170.2	133.4	95.7	76.4
60°	426.8	423.1	402.9	370.7	329.3	278.7	221.7	175.7	138.9	99.3	79.1
62.5°	440.6	436.0	415.8	382.7	339.4	288.8	229.1	181.2	143.5	103.0	81.9
65°	452.6	448.0	426.8	392.8	349.6	296.2	237.3	187.7	148.1	105.8	84.6
67.5°	464.5	459.0	437.9	403.8	358.8	304.5	243.8	192.3	151.8	108.5	86.5
70°	473.7	469.1	447.1	413.0	367.0	311.8	251.1	196.9	155.5	111.3	89.2
72.5°	482.9	478.3	455.3	421.3	374.4	318.3	256.6	201.5	159.1	114.1	91.1
75°	491.2	486.6	463.6	428.7	381.8	323.8	261.2	205.1	161.9	115.9	92.9
77.5°	498.6	493.1	471.0	435.1	386.4	329.3	264.9	207.9	164.7	117.7	94.7
80°	503.2	498.6	475.6	439.7	391.0	332.1	267.7	210.7	166.5	119.6	95.7
82.5°	508.7	503.2	480.2	443.4	395.6	335.8	270.4	212.5	168.3	120.5	96.6
85°	511.5	505.9	482.9	447.1	398.3	338.5	273.2	214.3	169.3	121.4	97.5
87.5°	513.3	507.8	485.7	448.9	400.2	340.4	274.1	215.3	170.2	122.3	97.5
89°	514.2	508.7	485.7	448.9	400.2	340.4	274.1	215.3	170.2	122.3	98.4
90°	518.8	513.3	490.3	453.5	403.8	343.1	276.9	217.1	172.0	123.3	98.4
92.5°	517.0	512.4	488.5	452.6	402.9	342.2	276.0	216.2	171.1	122.3	98.4
95°	514.2	509.6	485.7	449.8	400.2	340.4	274.1	214.3	170.2	121.4	97.5
97.5°	509.6	505.0	482.0	445.2	396.5	336.7	271.4	212.5	168.3	120.5	96.6
100°	505.0	500.4	477.4	441.5	392.8	333.9	268.6	210.7	166.5	119.6	95.7
102.5°	498.6	494.9	471.9	436.0	387.3	329.3	264.9	207.9	163.7	117.7	93.8
105°	491.2	486.6	463.6	428.7	380.8	323.8	260.3	204.2	161.9	115.9	92.0
107.5°	483.9	478.3	455.3	420.4	374.4	317.4	255.7	200.5	158.2	113.1	90.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	472.8	469.1	446.1	412.1	366.1	310.9	250.2	195.9	154.5	110.4	88.3
112.5°	461.8	458.1	436.9	402.9	357.8	303.6	244.7	191.3	150.9	107.6	86.5
115°	450.7	447.1	425.9	392.8	348.6	295.3	236.4	185.8	146.3	104.9	83.7
117.5°	439.7	435.1	413.9	381.8	338.5	287.0	228.1	180.3	142.6	102.1	81.0
120°	424.1	421.3	401.1	369.8	327.5	277.8	220.8	173.9	137.1	98.4	78.2
122.5°	410.3	407.5	387.3	356.9	316.4	267.7	213.4	168.3	132.5	94.7	75.4
125°	397.4	392.8	373.5	344.0	304.5	257.6	205.1	161.0	127.9	91.1	72.7
127.5°	381.8	377.2	358.8	330.2	292.5	247.4	195.9	154.5	122.3	86.5	69.9
130°	365.2	361.5	343.1	315.5	278.7	233.7	187.7	147.2	116.8	82.8	66.2
132.5°	348.6	345.0	327.5	300.8	265.8	222.6	178.5	139.8	110.4	79.1	62.6
135°	329.3	327.5	310.9	285.2	252.0	210.7	168.3	132.5	104.9	74.5	59.8
137.5°	312.8	309.1	293.4	269.5	235.5	198.7	159.1	125.1	98.4	69.9	56.1
140°	291.6	290.7	275.0	253.0	220.8	185.8	149.0	116.8	92.0	65.3	52.4
142.5°	274.1	271.4	257.6	233.7	206.1	172.9	138.9	109.5	85.5	60.7	48.8
145°	254.8	252.0	237.3	216.2	191.3	161.0	127.9	101.2	79.1	56.1	45.1
147.5°	232.7	230.0	218.9	199.6	175.7	148.1	117.7	92.9	72.7	51.5	41.4
150°	212.5	210.7	198.7	182.1	161.0	135.2	107.6	84.6	66.2	46.9	37.7
152.5°	192.3	190.4	181.2	164.7	145.3	121.4	97.5	76.4	59.8	42.3	34.0
155°	172.0	170.2	161.9	147.2	129.7	108.5	87.4	68.1	53.4	37.7	30.4
157.5°	151.8	149.9	142.6	129.7	114.1	95.7	76.4	59.8	46.9	33.1	26.7
160°	129.7	130.6	123.3	112.2	99.3	83.7	66.2	52.4	40.5	29.4	23.0
162.5°	110.4	110.4	104.9	95.7	84.6	70.8	56.1	44.2	35.0	24.8	20.2
165°	90.1	91.1	85.5	78.2	69.0	58.9	46.0	36.8	28.5	20.2	16.6
167.5°	71.8	72.7	68.1	62.6	55.2	46.9	37.7	29.4	23.0	16.6	13.8
170°	53.4	54.3	50.6	46.9	41.4	35.0	28.5	23.0	17.5	12.9	10.1
172.5°	36.8	37.7	35.0	32.2	28.5	24.8	20.2	15.6	12.9	9.2	7.4
175°	21.2	22.1	20.2	18.4	16.6	14.7	12.0	9.2	7.4	5.5	4.6
177.5°	6.4	6.4	6.4	5.5	5.5	4.6	4.6	3.7	3.7	2.8	2.8
180°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
2.5°	2.8	2.8	2.8	1.8	1.8	0.9	0.9	0.9	0.0	0.0
5°	3.7	2.8	2.8	1.8	1.8	0.9	0.9	0.0	0.0	0.0
7.5°	6.4	3.7	2.8	1.8	1.8	0.9	0.9	0.9	0.0	0.0
10°	8.3	4.6	2.8	1.8	1.8	0.9	0.9	0.9	0.0	0.0
12.5°	11.0	6.4	2.8	1.8	1.8	0.9	0.9	0.0	0.0	0.0
15°	12.9	7.4	3.7	1.8	0.9	0.9	0.9	0.0	0.0	0.0
17.5°	15.6	8.3	3.7	1.8	0.9	0.9	0.9	0.0	0.0	0.0
20°	18.4	9.2	4.6	1.8	0.9	0.9	0.9	0.0	0.0	0.0
22.5°	21.2	11.0	4.6	1.8	0.9	0.9	0.9	0.0	0.0	0.0
25°	23.9	12.0	5.5	1.8	0.9	0.9	0.9	0.0	0.0	0.0
27.5°	26.7	13.8	5.5	1.8	0.9	0.9	0.9	0.0	0.0	0.0
30°	29.4	14.7	6.4	1.8	0.9	0.9	0.9	0.0	0.0	0.0
32.5°	32.2	16.6	6.4	1.8	0.9	0.9	0.9	0.0	0.0	0.0
35°	35.0	17.5	7.4	2.8	0.9	0.9	0.9	0.0	0.0	0.0
37.5°	37.7	19.3	8.3	2.8	0.9	0.9	0.0	0.0	0.0	0.0
40°	40.5	20.2	8.3	2.8	0.9	0.9	0.0	0.0	0.0	0.0
42.5°	43.2	22.1	9.2	2.8	0.9	0.9	0.9	0.0	0.0	0.0
45°	46.0	23.0	9.2	2.8	0.9	0.9	0.9	0.0	0.0	0.0
47.5°	48.8	24.8	10.1	2.8	0.9	0.9	0.9	0.0	0.0	0.0
50°	50.6	25.8	11.0	3.7	0.9	0.9	0.9	0.0	0.0	0.0
52.5°	53.4	26.7	11.0	3.7	0.9	0.9	0.9	0.0	0.0	0.0
55°	55.2	28.5	12.0	3.7	0.9	0.9	0.9	0.0	0.0	0.0
57.5°	58.0	29.4	12.0	3.7	0.9	0.9	0.9	0.0	0.0	0.0
60°	59.8	30.4	12.9	3.7	0.9	0.9	0.9	0.9	0.0	0.9
62.5°	62.6	31.3	12.9	3.7	0.9	0.9	0.9	0.9	0.9	0.9
65°	64.4	32.2	12.9	4.6	0.9	0.9	0.9	0.9	0.9	0.9
67.5°	66.2	33.1	13.8	4.6	0.9	0.9	0.9	0.9	0.9	0.9
70°	67.2	34.0	13.8	4.6	0.9	0.9	0.9	0.9	0.9	0.9
72.5°	69.0	35.0	14.7	4.6	0.9	0.9	0.9	0.9	0.9	0.9
75°	70.8	35.9	14.7	4.6	0.9	0.9	0.9	0.9	0.9	0.9
77.5°	71.8	36.8	14.7	4.6	1.8	0.9	0.9	0.9	0.9	0.9
80°	72.7	36.8	15.6	4.6	1.8	0.9	0.9	0.9	0.9	0.9
82.5°	73.6	37.7	15.6	5.5	1.8	0.9	0.9	0.9	0.9	0.9
85°	73.6	37.7	15.6	5.5	1.8	0.9	0.9	0.9	0.9	0.9
87.5°	74.5	37.7	15.6	5.5	1.8	1.8	0.9	0.9	0.9	0.9
89°	74.5	37.7	15.6	5.5	1.8	1.8	1.8	1.8	1.8	1.8
90°	74.5	37.7	15.6	5.5	1.8	1.8	1.8	1.8	0.9	0.9
92.5°	74.5	37.7	15.6	5.5	1.8	1.8	0.9	0.9	0.9	0.9
95°	73.6	37.7	15.6	4.6	1.8	0.9	0.9	0.9	0.9	0.9
97.5°	73.6	36.8	14.7	4.6	1.8	0.9	0.9	0.9	0.9	0.9
100°	72.7	36.8	14.7	4.6	1.8	0.9	0.9	0.9	0.9	0.9
102.5°	70.8	35.9	14.7	4.6	0.9	0.9	0.9	0.9	0.9	0.9
105°	69.9	35.0	14.7	4.6	0.9	0.9	0.9	0.9	0.9	0.9
107.5°	68.1	34.0	13.8	4.6	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°	67.2	34.0	13.8	4.6	0.9	0.9	0.9	0.9	0.9	0.9
112.5°	65.3	33.1	12.9	4.6	0.9	0.9	0.9	0.9	0.9	0.9
115°	63.5	32.2	12.9	3.7	0.9	0.9	0.9	0.9	0.9	0.9
117.5°	61.6	30.4	12.9	3.7	0.9	0.9	0.9	0.9	0.9	0.9
120°	58.9	29.4	12.0	3.7	0.9	0.9	0.9	0.9	0.0	0.0
122.5°	57.0	28.5	12.0	3.7	0.9	0.9	0.9	0.9	0.0	0.0
125°	55.2	27.6	11.0	3.7	0.9	0.9	0.9	0.0	0.0	0.0
127.5°	52.4	26.7	11.0	3.7	0.9	0.9	0.9	0.0	0.0	0.0
130°	49.7	24.8	10.1	2.8	0.9	0.9	0.9	0.0	0.0	0.0
132.5°	47.8	23.9	9.2	2.8	0.9	0.9	0.9	0.0	0.0	0.0
135°	45.1	23.0	9.2	2.8	0.9	0.9	0.9	0.0	0.0	0.0
137.5°	42.3	21.2	8.3	2.8	0.9	0.9	0.9	0.0	0.0	0.0
140°	39.6	20.2	8.3	2.8	0.9	0.9	0.9	0.0	0.0	0.0
142.5°	36.8	18.4	7.4	2.8	0.9	0.9	0.9	0.0	0.0	0.0
145°	34.0	17.5	7.4	1.8	0.9	0.9	0.9	0.0	0.0	0.0
147.5°	31.3	15.6	6.4	1.8	0.9	0.9	0.9	0.0	0.0	0.0
150°	28.5	14.7	6.4	1.8	0.9	0.9	0.9	0.0	0.0	0.0
152.5°	25.8	13.8	5.5	1.8	0.9	0.9	0.9	0.0	0.0	0.0
155°	23.0	12.0	5.5	1.8	0.9	0.9	0.9	0.0	0.0	0.0
157.5°	20.2	11.0	4.6	1.8	0.9	0.9	0.9	0.0	0.0	0.0
160°	17.5	9.2	3.7	1.8	0.9	0.9	0.9	0.0	0.0	0.0
162.5°	15.6	8.3	3.7	1.8	0.9	0.9	0.9	0.0	0.0	0.0
165°	12.9	6.4	3.7	1.8	1.8	0.9	0.9	0.0	0.0	0.0
167.5°	10.1	5.5	2.8	1.8	1.8	0.9	0.9	0.0	0.0	0.0
170°	8.3	4.6	2.8	1.8	1.8	0.9	0.9	0.0	0.0	0.0
172.5°	5.5	3.7	2.8	1.8	1.8	0.9	0.9	0.0	0.0	0.0
175°	3.7	2.8	2.8	1.8	1.8	0.9	0.9	0.9	0.0	0.0
177.5°	2.8	2.8	2.8	1.8	1.8	0.9	0.9	0.9	0.0	0.0
180°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8

(END OF REPORT)