

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: P368749

Luminaire Tested: **674-WP-31-L3/835**

Issue Date: 11/13/2019

Test Information

Test Method: LM-79-08
Report Number: P368749
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-L3/835
Description: 31" 674 SERIES LUMINOUS WALL SCONCE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

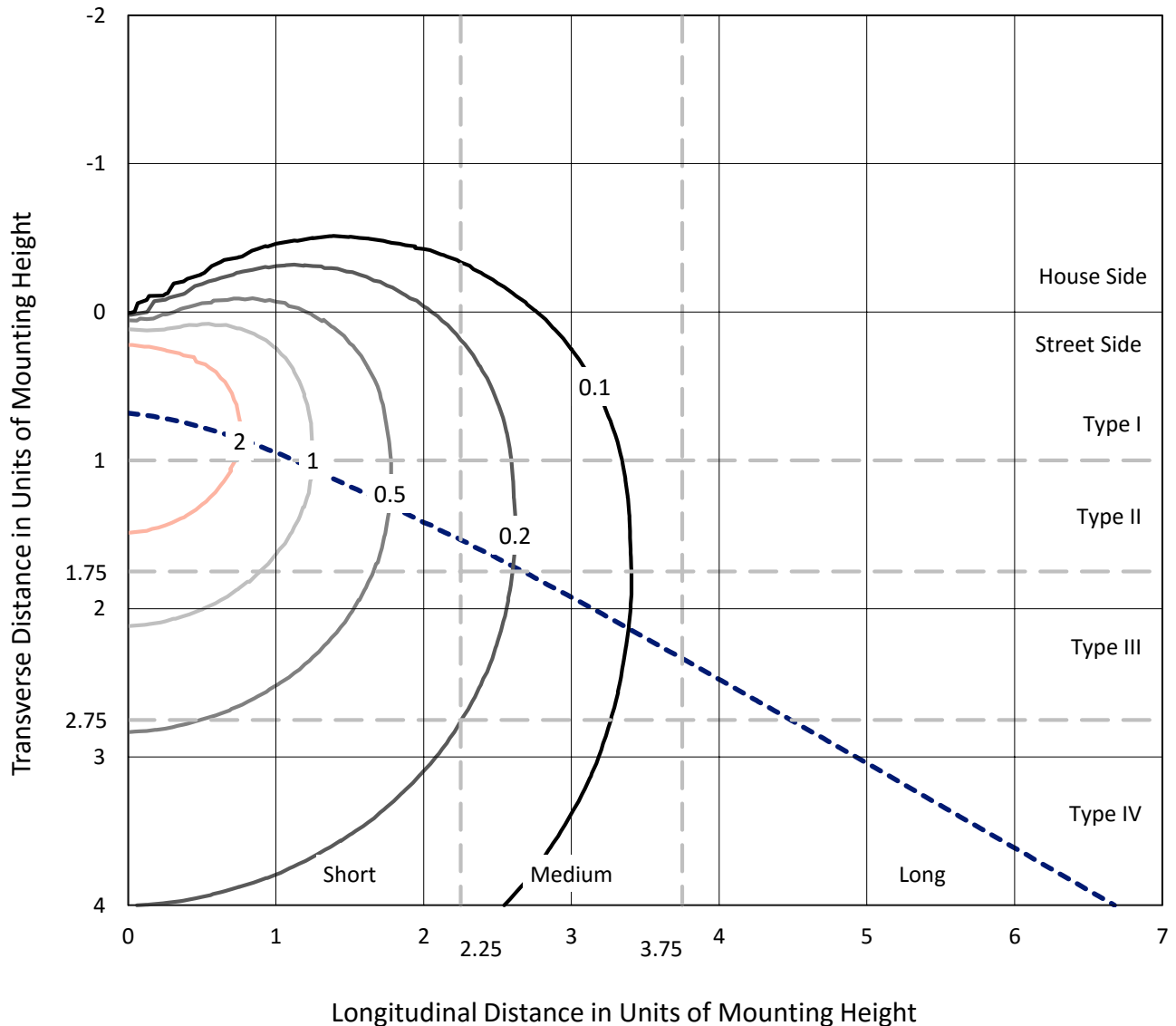
Lumens per Lamp: N/A
Luminaire Lumens: 1641 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.71' x L: 0.21' x H: 2.58')
IES Classification: Type - Short - Non-Cutoff
BUG Rating: B0 - U4 - G2

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

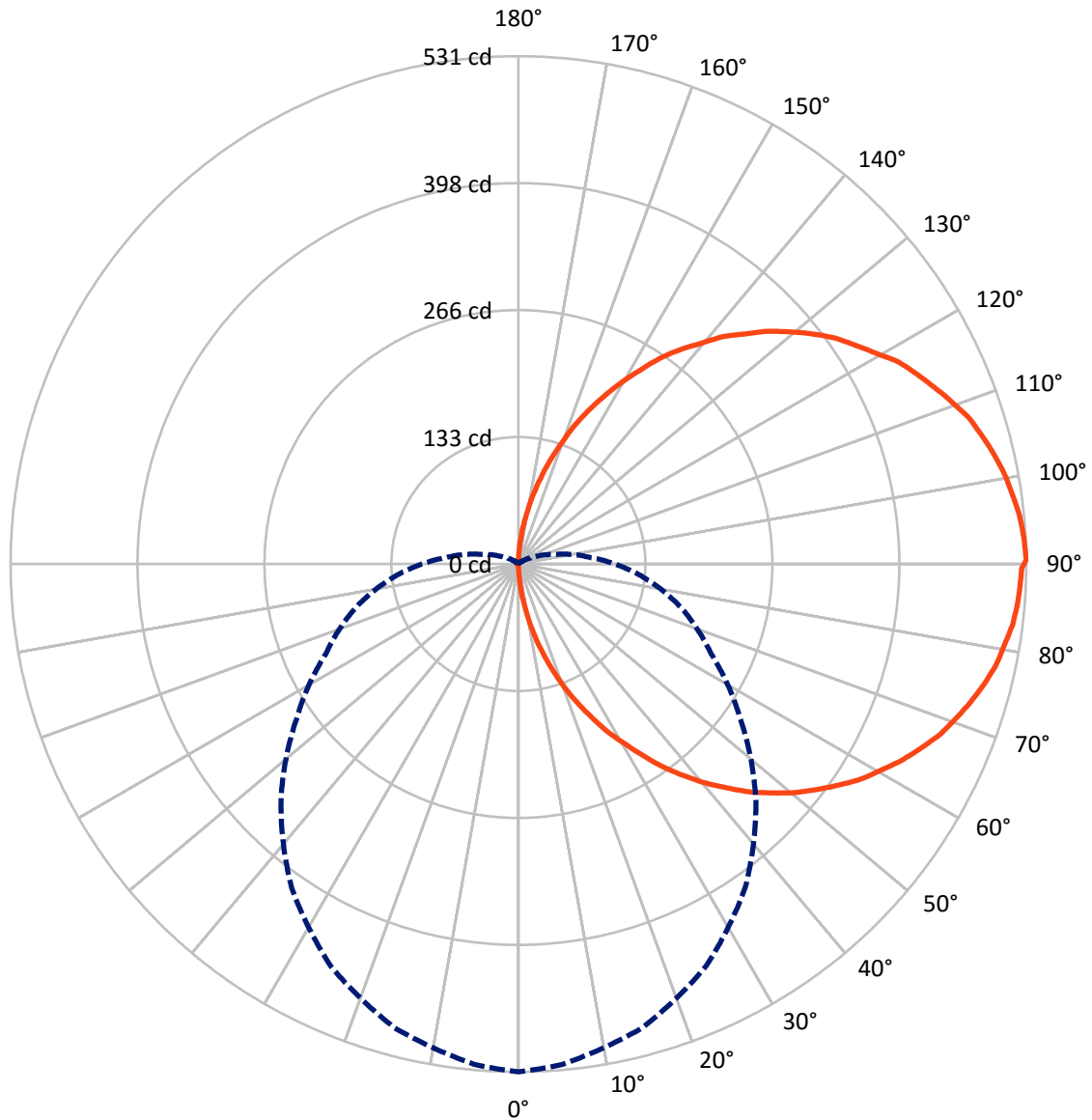


Based on 6 foot mounting height. Maximum calculated value = 4 fc
 Type - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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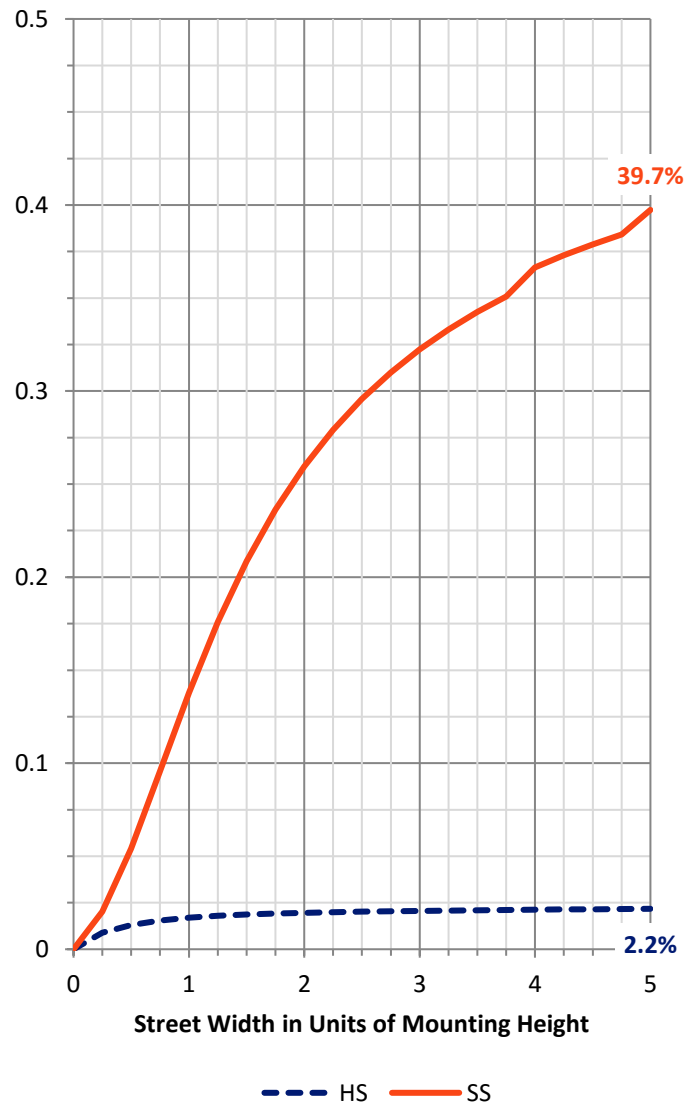
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	37.7	37.1	74.8
	% Fixture	2.3	2.3	4.6
Street Side	Lumens	784.1	782.1	1566.2
	% Fixture	47.8	47.7	95.4
Total	Lumens	821.8	819.2	1641.0
	% Fixture	50.1	49.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.2	0.1
10°-20°	9.5	0.6
20°-30°	27.2	1.7
30°-40°	53.8	3.3
40°-50°	86.7	5.3
50°-60°	121.2	7.4
60°-70°	153.0	9.3
70°-80°	177.8	10.8
80°-90°	191.5	11.7
90°-100°	192.3	11.7
100°-110°	177.6	10.8
110°-120°	152.4	9.3
120°-130°	120.3	7.3
130°-140°	86.0	5.2
140°-150°	53.4	3.3
150°-160°	26.9	1.6
160°-170°	9.2	0.6
170°-180°	1.1	0.1
0°-90°	821.8	50.1
0°-180°	1641.0	100.0



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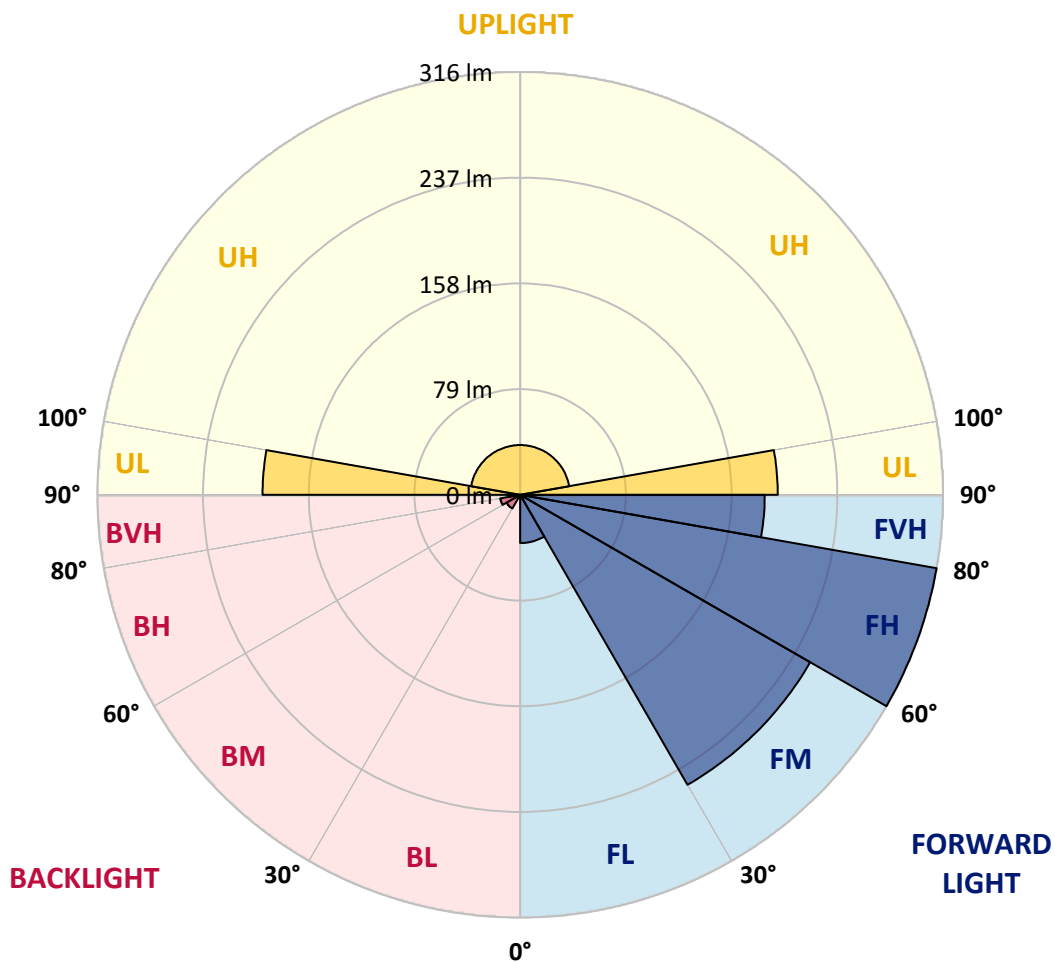
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	36.0	2.2			
FM (30°-60°)	249.9	15.2			
FH (60°-80°)	315.6	19.2			G0/660
FVH (80°-90°)	182.6	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°)	9.0	0.5			G0/10
UL (90°-100°)	192.3	11.7		U3/500	
UH (100°-180°)	37.1	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°	10.4	8.5	8.5	8.5	6.6	6.6	5.7	4.7	3.8	2.8	2.8
5°	25.4	24.5	23.5	22.6	18.8	16.0	13.2	10.4	8.5	5.7	4.7
7.5°	41.4	40.5	38.6	36.7	31.1	26.4	21.7	17.0	14.1	9.4	7.5
10°	59.3	57.5	55.6	50.9	44.3	37.7	30.1	23.5	18.8	13.2	11.3
12.5°	78.2	76.3	73.5	67.8	58.4	49.9	39.6	31.1	24.5	17.9	14.1
15°	97.0	96.1	91.4	83.8	73.5	62.2	49.0	38.6	30.1	21.7	17.9
17.5°	117.7	114.9	110.2	100.8	88.5	74.4	59.3	46.1	36.7	26.4	20.7
20°	137.5	134.7	129.0	117.7	103.6	86.6	68.8	54.6	42.4	30.1	24.5
22.5°	157.3	154.5	147.9	134.7	118.7	99.8	79.1	62.2	49.0	34.8	28.3
25°	177.1	175.2	166.7	151.6	133.7	112.1	89.5	70.6	55.6	39.6	32.0
27.5°	198.7	195.0	185.5	169.5	149.7	126.2	100.8	79.1	62.2	44.3	35.8
30°	217.6	216.6	206.3	187.4	165.8	139.4	110.2	87.6	68.8	49.0	38.6
32.5°	238.3	236.4	224.2	205.3	180.8	152.6	120.6	96.1	75.3	53.7	42.4
35°	260.9	258.1	245.8	223.2	196.8	165.8	131.9	104.5	81.9	58.4	47.1
37.5°	280.7	278.8	265.6	241.1	212.9	178.9	142.2	113.0	88.5	63.1	50.9
40°	301.4	298.6	283.5	259.9	227.9	192.1	153.5	121.5	95.1	67.8	54.6
42.5°	320.2	317.4	302.3	276.9	243.9	204.4	163.9	129.0	101.7	72.5	58.4
45°	340.0	336.2	321.2	293.8	259.9	217.6	174.2	137.5	108.3	77.2	62.2
47.5°	357.9	354.1	338.1	309.9	274.1	229.8	183.7	145.0	114.9	81.9	65.0
50°	375.8	372.0	354.1	324.9	288.2	243.0	193.1	153.5	120.6	86.6	68.8
52.5°	391.8	388.0	369.2	339.1	301.4	254.3	201.5	160.1	126.2	90.4	71.6
55°	407.8	404.0	385.2	353.2	314.6	265.6	211.0	167.6	131.9	94.2	75.3
57.5°	423.8	419.1	398.4	367.3	325.9	276.0	219.4	174.2	136.6	97.9	78.2
60°	437.0	433.2	412.5	379.6	337.2	285.4	227.0	179.9	142.2	101.7	81.0
62.5°	451.1	446.4	425.7	391.8	347.5	295.7	234.5	185.5	146.9	105.5	83.8
65°	463.4	458.7	437.0	402.2	357.9	303.3	243.0	192.1	151.6	108.3	86.6
67.5°	475.6	470.0	448.3	413.5	367.3	311.7	249.6	196.8	155.4	111.1	88.5
70°	485.0	480.3	457.7	422.9	375.8	319.3	257.1	201.5	159.2	114.0	91.4
72.5°	494.5	489.7	466.2	431.4	383.3	325.9	262.8	206.3	162.9	116.8	93.2
75°	502.9	498.2	474.7	438.9	390.9	331.5	267.5	210.0	165.8	118.7	95.1
77.5°	510.5	504.8	482.2	445.5	395.6	337.2	271.2	212.9	168.6	120.6	97.0
80°	515.2	510.5	486.9	450.2	400.3	340.0	274.1	215.7	170.5	122.4	97.9
82.5°	520.8	515.2	491.6	454.0	405.0	343.8	276.9	217.6	172.4	123.4	98.9
85°	523.7	518.0	494.5	457.7	407.8	346.6	279.7	219.4	173.3	124.3	99.8
87.5°	525.5	519.9	497.3	459.6	409.7	348.5	280.7	220.4	174.2	125.3	99.8
89°	526.5	520.8	497.3	459.6	409.7	348.5	280.7	220.4	174.2	125.3	100.8
90°	531.2	525.5	502.0	464.3	413.5	351.3	283.5	222.3	176.1	126.2	100.8
92.5°	529.3	524.6	500.1	463.4	412.5	350.4	282.5	221.3	175.2	125.3	100.8
95°	526.5	521.8	497.3	460.5	409.7	348.5	280.7	219.4	174.2	124.3	99.8
97.5°	521.8	517.1	493.5	455.8	405.9	344.7	277.8	217.6	172.4	123.4	98.9
100°	517.1	512.3	488.8	452.1	402.2	341.9	275.0	215.7	170.5	122.4	97.9
102.5°	510.5	506.7	483.2	446.4	396.5	337.2	271.2	212.9	167.6	120.6	96.1
105°	502.9	498.2	474.7	438.9	389.9	331.5	266.5	209.1	165.8	118.7	94.2
107.5°	495.4	489.7	466.2	430.4	383.3	324.9	261.8	205.3	162.0	115.8	92.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	484.1	480.3	456.8	421.9	374.8	318.3	256.2	200.6	158.2	113.0	90.4
112.5°	472.8	469.0	447.4	412.5	366.4	310.8	250.5	195.9	154.5	110.2	88.5
115°	461.5	457.7	436.1	402.2	356.9	302.3	242.0	190.2	149.7	107.4	85.7
117.5°	450.2	445.5	423.8	390.9	346.6	293.8	233.6	184.6	146.0	104.5	82.9
120°	434.2	431.4	410.6	378.6	335.3	284.4	226.0	178.0	140.3	100.8	80.1
122.5°	420.1	417.2	396.5	365.4	324.0	274.1	218.5	172.4	135.6	97.0	77.2
125°	406.9	402.2	382.4	352.2	311.7	263.7	210.0	164.8	130.9	93.2	74.4
127.5°	390.9	386.1	367.3	338.1	299.5	253.3	200.6	158.2	125.3	88.5	71.6
130°	373.9	370.1	351.3	323.0	285.4	239.2	192.1	150.7	119.6	84.8	67.8
132.5°	356.9	353.2	335.3	308.0	272.2	227.9	182.7	143.2	113.0	81.0	64.0
135°	337.2	335.3	318.3	292.0	258.1	215.7	172.4	135.6	107.4	76.3	61.2
137.5°	320.2	316.5	300.4	276.0	241.1	203.4	162.9	128.1	100.8	71.6	57.5
140°	298.6	297.6	281.6	259.0	226.0	190.2	152.6	119.6	94.2	66.9	53.7
142.5°	280.7	277.8	263.7	239.2	211.0	177.1	142.2	112.1	87.6	62.2	49.9
145°	260.9	258.1	243.0	221.3	195.9	164.8	130.9	103.6	81.0	57.5	46.1
147.5°	238.3	235.5	224.2	204.4	179.9	151.6	120.6	95.1	74.4	52.7	42.4
150°	217.6	215.7	203.4	186.5	164.8	138.4	110.2	86.6	67.8	48.0	38.6
152.5°	196.8	195.0	185.5	168.6	148.8	124.3	99.8	78.2	61.2	43.3	34.8
155°	176.1	174.2	165.8	150.7	132.8	111.1	89.5	69.7	54.6	38.6	31.1
157.5°	155.4	153.5	146.0	132.8	116.8	97.9	78.2	61.2	48.0	33.9	27.3
160°	132.8	133.7	126.2	114.9	101.7	85.7	67.8	53.7	41.4	30.1	23.5
162.5°	113.0	113.0	107.4	97.9	86.6	72.5	57.5	45.2	35.8	25.4	20.7
165°	92.3	93.2	87.6	80.1	70.6	60.3	47.1	37.7	29.2	20.7	17.0
167.5°	73.5	74.4	69.7	64.0	56.5	48.0	38.6	30.1	23.5	17.0	14.1
170°	54.6	55.6	51.8	48.0	42.4	35.8	29.2	23.5	17.9	13.2	10.4
172.5°	37.7	38.6	35.8	33.0	29.2	25.4	20.7	16.0	13.2	9.4	7.5
175°	21.7	22.6	20.7	18.8	17.0	15.1	12.2	9.4	7.5	5.7	4.7
177.5°	6.6	6.6	6.6	5.7	5.7	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°	8.5	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°	13.2	7.5	3.8	1.9	0.9	0.9	0.9	0.0	0.0	0.0
17.5°	16.0	8.5	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°	21.7	11.3	4.7	1.9	0.9	0.9	0.9	0.0	0.0	0.0
25°	24.5	12.2	5.7	1.9	0.9	0.9	0.9	0.0	0.0	0.0
27.5°	27.3	14.1	5.7	1.9	0.9	0.9	0.9	0.0	0.0	0.0
30°	30.1	15.1	6.6	1.9	0.9	0.9	0.9	0.0	0.0	0.0
32.5°	33.0	17.0	6.6	1.9	0.9	0.9	0.9	0.0	0.0	0.0
35°	35.8	17.9	7.5	2.8	0.9	0.9	0.9	0.0	0.0	0.0
37.5°	38.6	19.8	8.5	2.8	0.9	0.9	0.0	0.0	0.0	0.0
40°	41.4	20.7	8.5	2.8	0.9	0.9	0.0	0.0	0.0	0.0
42.5°	44.3	22.6	9.4	2.8	0.9	0.9	0.9	0.0	0.0	0.0
45°	47.1	23.5	9.4	2.8	0.9	0.9	0.9	0.0	0.0	0.0
47.5°	49.9	25.4	10.4	2.8	0.9	0.9	0.9	0.0	0.0	0.0
50°	51.8	26.4	11.3	3.8	0.9	0.9	0.9	0.0	0.0	0.0
52.5°	54.6	27.3	11.3	3.8	0.9	0.9	0.9	0.0	0.0	0.0
55°	56.5	29.2	12.2	3.8	0.9	0.9	0.9	0.0	0.0	0.0
57.5°	59.3	30.1	12.2	3.8	0.9	0.9	0.9	0.0	0.0	0.0
60°	61.2	31.1	13.2	3.8	0.9	0.9	0.9	0.9	0.0	0.9
62.5°	64.0	32.0	13.2	3.8	0.9	0.9	0.9	0.9	0.9	0.9
65°	65.9	33.0	13.2	4.7	0.9	0.9	0.9	0.9	0.9	0.9
67.5°	67.8	33.9	14.1	4.7	0.9	0.9	0.9	0.9	0.9	0.9
70°	68.8	34.8	14.1	4.7	0.9	0.9	0.9	0.9	0.9	0.9
72.5°	70.6	35.8	15.1	4.7	0.9	0.9	0.9	0.9	0.9	0.9
75°	72.5	36.7	15.1	4.7	0.9	0.9	0.9	0.9	0.9	0.9
77.5°	73.5	37.7	15.1	4.7	1.9	0.9	0.9	0.9	0.9	0.9
80°	74.4	37.7	16.0	4.7	1.9	0.9	0.9	0.9	0.9	0.9
82.5°	75.3	38.6	16.0	5.7	1.9	0.9	0.9	0.9	0.9	0.9
85°	75.3	38.6	16.0	5.7	1.9	0.9	0.9	0.9	0.9	0.9
87.5°	76.3	38.6	16.0	5.7	1.9	1.9	0.9	0.9	0.9	0.9
89°	76.3	38.6	16.0	5.7	1.9	1.9	1.9	1.9	1.9	1.9
90°	76.3	38.6	16.0	5.7	1.9	1.9	1.9	1.9	0.9	0.9
92.5°	76.3	38.6	16.0	5.7	1.9	1.9	0.9	0.9	0.9	0.9
95°	75.3	38.6	16.0	4.7	1.9	0.9	0.9	0.9	0.9	0.9
97.5°	75.3	37.7	15.1	4.7	1.9	0.9	0.9	0.9	0.9	0.9
100°	74.4	37.7	15.1	4.7	1.9	0.9	0.9	0.9	0.9	0.9
102.5°	72.5	36.7	15.1	4.7	0.9	0.9	0.9	0.9	0.9	0.9
105°	71.6	35.8	15.1	4.7	0.9	0.9	0.9	0.9	0.9	0.9
107.5°	69.7	34.8	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°	68.8	34.8	14.1	4.7	0.9	0.9	0.9	0.9	0.9	0.9
112.5°	66.9	33.9	13.2	4.7	0.9	0.9	0.9	0.9	0.9	0.9
115°	65.0	33.0	13.2	3.8	0.9	0.9	0.9	0.9	0.9	0.9
117.5°	63.1	31.1	13.2	3.8	0.9	0.9	0.9	0.9	0.9	0.9
120°	60.3	30.1	12.2	3.8	0.9	0.9	0.9	0.9	0.0	0.0
122.5°	58.4	29.2	12.2	3.8	0.9	0.9	0.9	0.9	0.0	0.0
125°	56.5	28.3	11.3	3.8	0.9	0.9	0.9	0.0	0.0	0.0
127.5°	53.7	27.3	11.3	3.8	0.9	0.9	0.9	0.0	0.0	0.0
130°	50.9	25.4	10.4	2.8	0.9	0.9	0.9	0.0	0.0	0.0
132.5°	49.0	24.5	9.4	2.8	0.9	0.9	0.9	0.0	0.0	0.0
135°	46.1	23.5	9.4	2.8	0.9	0.9	0.9	0.0	0.0	0.0
137.5°	43.3	21.7	8.5	2.8	0.9	0.9	0.9	0.0	0.0	0.0
140°	40.5	20.7	8.5	2.8	0.9	0.9	0.9	0.0	0.0	0.0
142.5°	37.7	18.8	7.5	2.8	0.9	0.9	0.9	0.0	0.0	0.0
145°	34.8	17.9	7.5	1.9	0.9	0.9	0.9	0.0	0.0	0.0
147.5°	32.0	16.0	6.6	1.9	0.9	0.9	0.9	0.0	0.0	0.0
150°	29.2	15.1	6.6	1.9	0.9	0.9	0.9	0.0	0.0	0.0
152.5°	26.4	14.1	5.7	1.9	0.9	0.9	0.9	0.0	0.0	0.0
155°	23.5	12.2	5.7	1.9	0.9	0.9	0.9	0.0	0.0	0.0
157.5°	20.7	11.3	4.7	1.9	0.9	0.9	0.9	0.0	0.0	0.0
160°	17.9	9.4	3.8	1.9	0.9	0.9	0.9	0.0	0.0	0.0
162.5°	16.0	8.5	3.8	1.9	0.9	0.9	0.9	0.0	0.0	0.0
165°	13.2	6.6	3.8	1.9	1.9	0.9	0.9	0.0	0.0	0.0
167.5°	10.4	5.7	2.8	1.9	1.9	0.9	0.9	0.0	0.0	0.0
170°	8.5	4.7	2.8	1.9	1.9	0.9	0.9	0.0	0.0	0.0
172.5°	5.7	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)