

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: P368751

Luminaire Tested: **674-WP-43-L4/827**

Issue Date: 11/13/2019

Test Information

Test Method: LM-79-08
Report Number: P368751
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-43-L4/827
Description: 43" 674 SERIES LUMINOUS WALL SCONCE
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

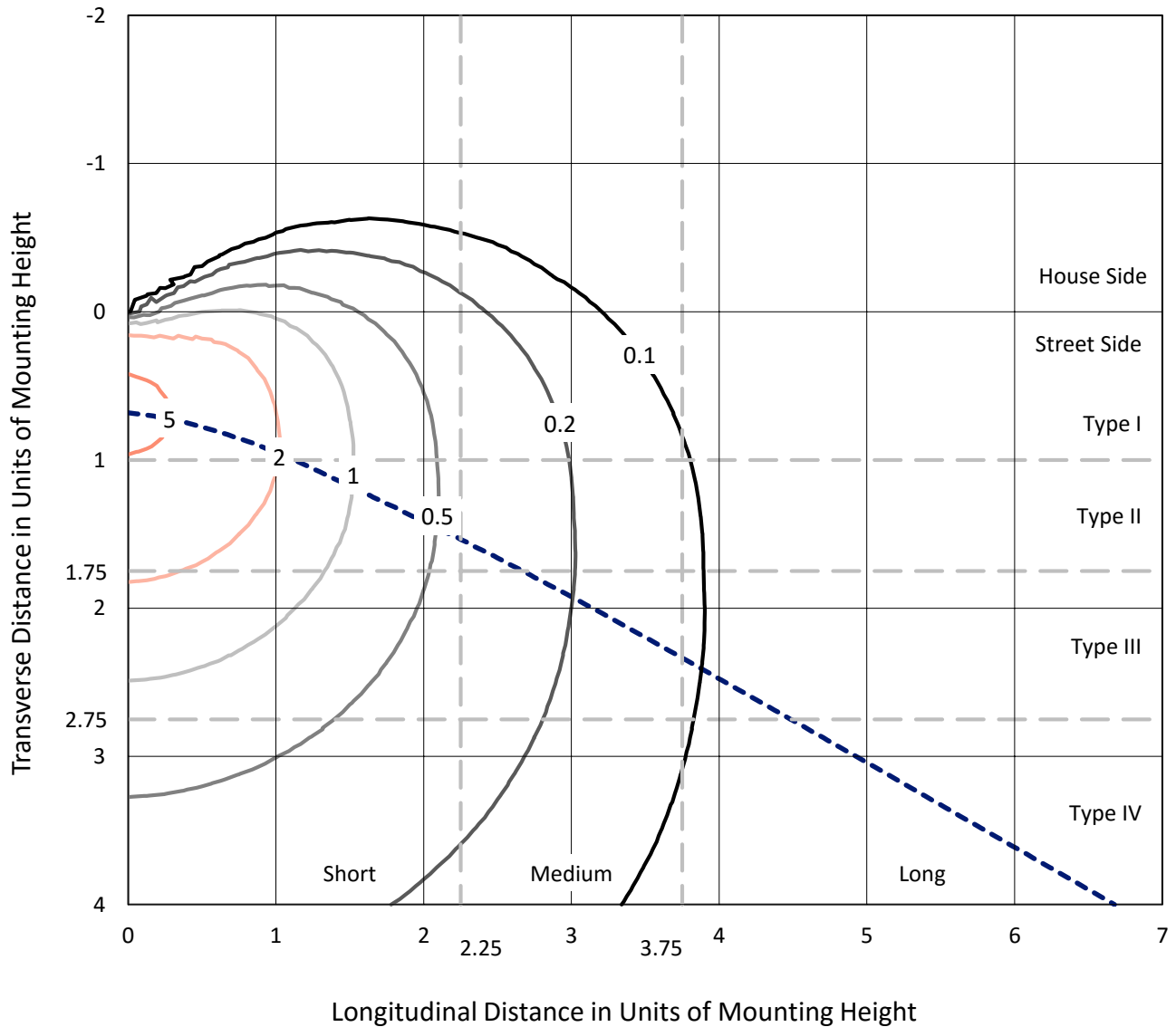
Lumens per Lamp: N/A
Luminaire Lumens: 2387.8 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.71' x L: 0.21' x H: 3.58')
IES Classification: Type - Short - Non-Cutoff
BUG Rating: B0 - U4 - G3

Input Watts (W): 35
Input Voltage (V): 120
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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

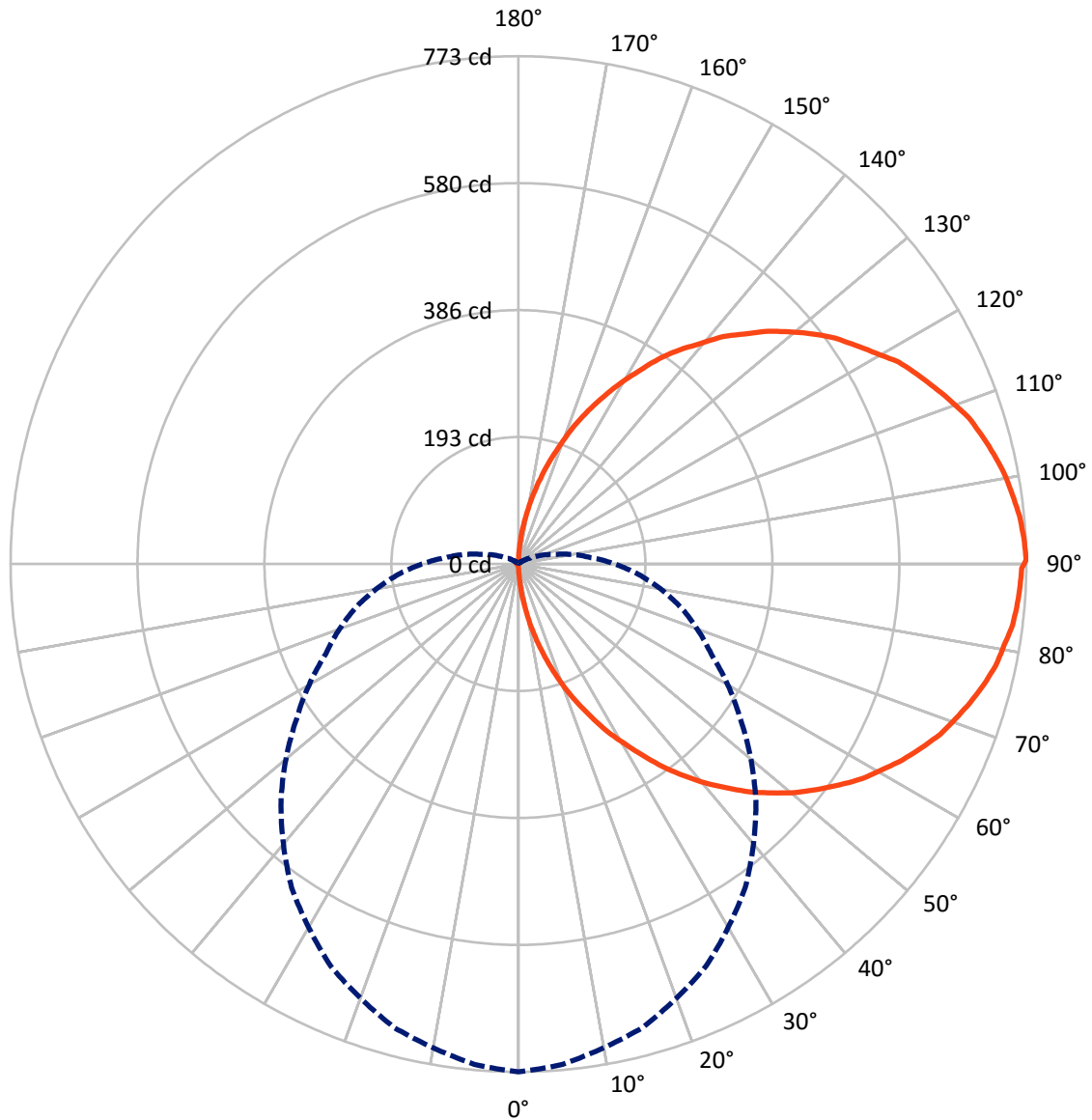


Based on 6 foot mounting height. Maximum calculated value = 5.8 fc
 Type - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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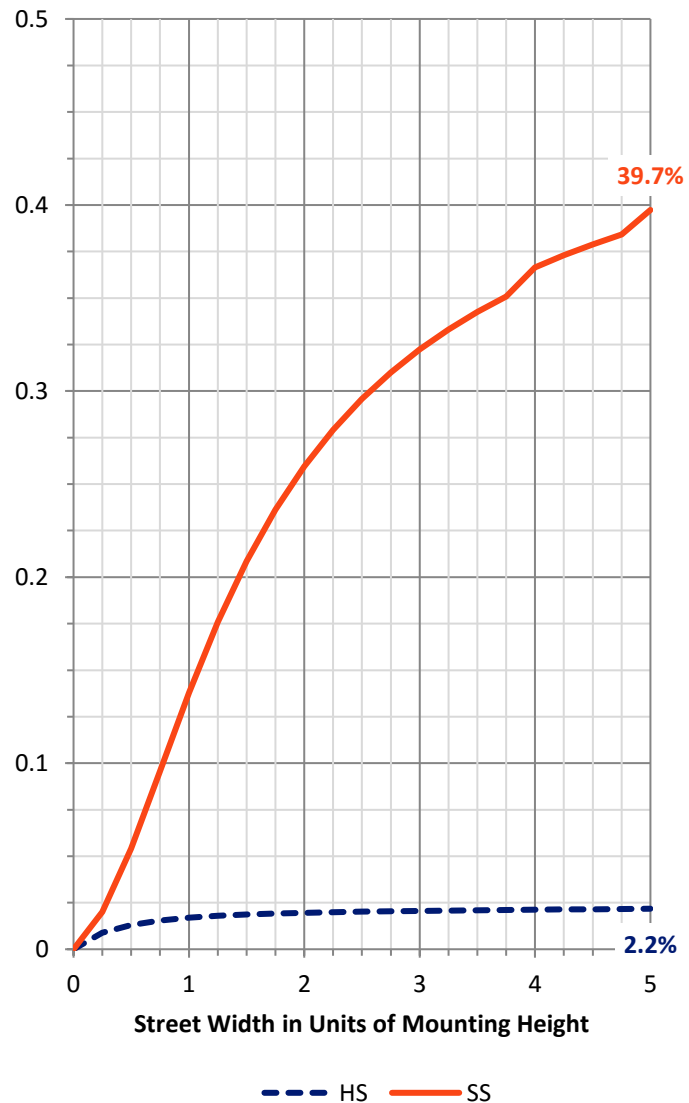
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	55.0	54.1	109.1
	% Fixture	2.3	2.3	4.6
Street Side	Lumens	1140.8	1137.9	2278.8
	% Fixture	47.8	47.7	95.4
Total	Lumens	1195.8	1192.0	2387.8
	% Fixture	50.1	49.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.7	0.1
10°-20°	13.8	0.6
20°-30°	39.6	1.7
30°-40°	78.3	3.3
40°-50°	126.1	5.3
50°-60°	176.3	7.4
60°-70°	222.6	9.3
70°-80°	258.7	10.8
80°-90°	278.7	11.7
90°-100°	279.8	11.7
100°-110°	258.4	10.8
110°-120°	221.7	9.3
120°-130°	175.1	7.3
130°-140°	125.1	5.2
140°-150°	77.7	3.3
150°-160°	39.2	1.6
160°-170°	13.4	0.6
170°-180°	1.6	0.1
0°-90°	1195.8	50.1
0°-180°	2387.8	100.0



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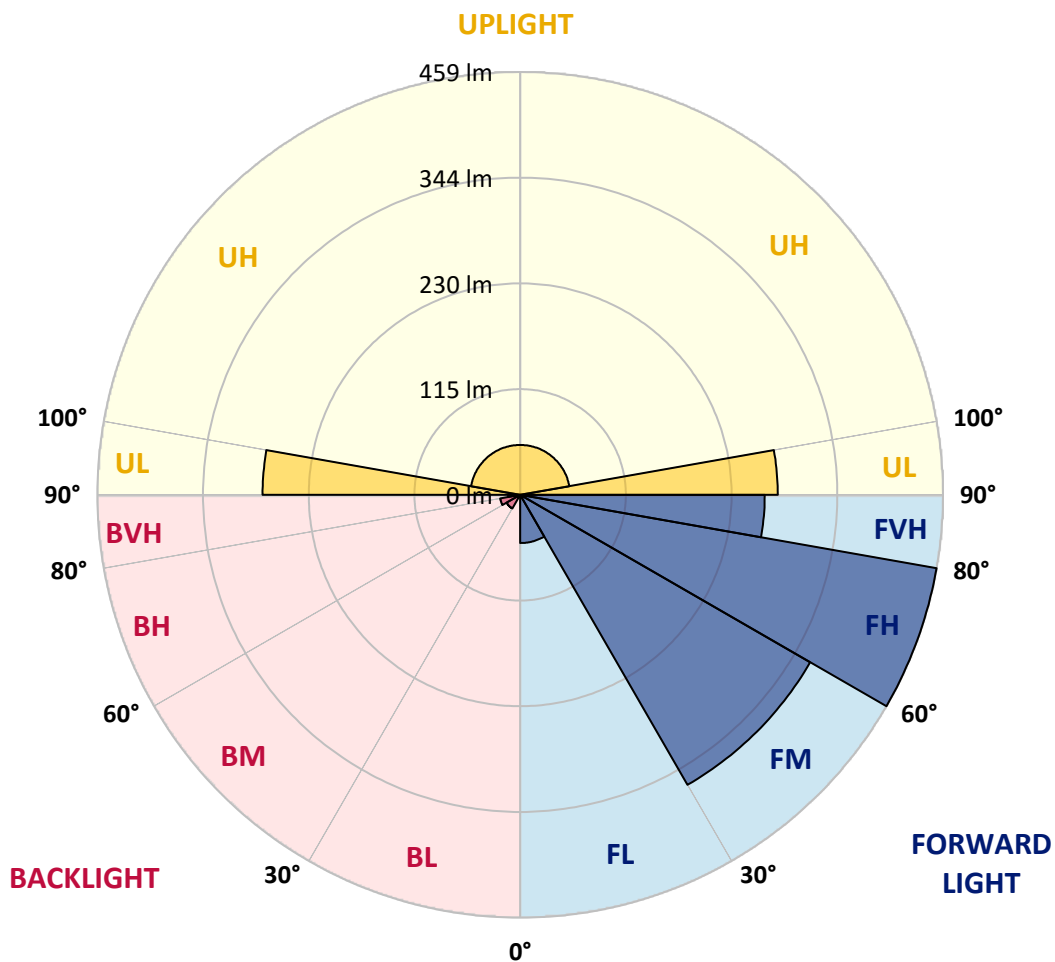
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	52.4	2.2			
FM (30°-60°)	363.6	15.2			
FH (60°-80°)	459.2	19.2			G0/660
FVH (80°-90°)	265.6	11.1			G3/500
BL (0°-30°)	2.7	0.1	B0/110		
BM (30°-60°)	17.1	0.7	B0/220		
BH (60°-80°)	22.1	0.9	B0/110		G0/110
BVH (80°-90°)	13.1	0.5			G1/100
UL (90°-100°)	279.8	11.7		U3/500	
UH (100°-180°)	54.1	2.3		U3/500	

BUG Rating: B0-U4-G3

Type Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
2.5°	15.1	12.3	12.3	12.3	9.6	9.6	8.2	6.9	5.5	4.1	4.1
5°	37.0	35.6	34.3	32.9	27.4	23.3	19.2	15.1	12.3	8.2	6.9
7.5°	60.3	58.9	56.2	53.4	45.2	38.4	31.5	24.7	20.6	13.7	11.0
10°	86.3	83.6	80.8	74.0	64.4	54.8	43.9	34.3	27.4	19.2	16.4
12.5°	113.7	111.0	106.9	98.7	85.0	72.6	57.6	45.2	35.6	26.0	20.6
15°	141.1	139.8	132.9	122.0	106.9	90.4	71.3	56.2	43.9	31.5	26.0
17.5°	171.3	167.2	160.3	146.6	128.8	108.3	86.3	67.1	53.4	38.4	30.1
20°	200.1	196.0	187.7	171.3	150.7	126.1	100.0	79.5	61.7	43.9	35.6
22.5°	228.8	224.7	215.1	196.0	172.7	145.3	115.1	90.4	71.3	50.7	41.1
25°	257.6	254.9	242.5	220.6	194.6	163.1	130.2	102.8	80.8	57.6	46.6
27.5°	289.1	283.7	270.0	246.7	217.9	183.6	146.6	115.1	90.4	64.4	52.1
30°	316.5	315.2	300.1	272.7	241.2	202.8	160.3	127.4	100.0	71.3	56.2
32.5°	346.7	343.9	326.1	298.7	263.1	222.0	175.4	139.8	109.6	78.1	61.7
35°	379.6	375.5	357.7	324.8	286.4	241.2	191.8	152.1	119.2	85.0	68.5
37.5°	408.4	405.6	386.4	350.8	309.7	260.4	206.9	164.4	128.8	91.8	74.0
40°	438.5	434.4	412.5	378.2	331.6	279.5	223.4	176.8	138.4	98.7	79.5
42.5°	465.9	461.8	439.9	402.9	354.9	297.4	238.4	187.7	148.0	105.5	85.0
45°	494.7	489.2	467.3	427.5	378.2	316.5	253.5	200.1	157.6	112.4	90.4
47.5°	520.7	515.2	491.9	450.8	398.8	334.4	267.2	211.0	167.2	119.2	94.6
50°	546.8	541.3	515.2	472.8	419.3	353.5	280.9	223.4	175.4	126.1	100.0
52.5°	570.1	564.6	537.2	493.3	438.5	370.0	293.2	233.0	183.6	131.6	104.1
55°	593.3	587.9	560.5	513.9	457.7	386.4	307.0	243.9	191.8	137.0	109.6
57.5°	616.6	609.8	579.6	534.4	474.1	401.5	319.3	253.5	198.7	142.5	113.7
60°	635.8	630.3	600.2	552.2	490.6	415.2	330.2	261.7	206.9	148.0	117.8
62.5°	656.4	649.5	619.4	570.1	505.6	430.3	341.2	270.0	213.8	153.5	122.0
65°	674.2	667.3	635.8	585.1	520.7	441.2	353.5	279.5	220.6	157.6	126.1
67.5°	692.0	683.8	652.3	601.6	534.4	453.6	363.1	286.4	226.1	161.7	128.8
70°	705.7	698.9	666.0	615.3	546.8	464.5	374.1	293.2	231.6	165.8	132.9
72.5°	719.4	712.6	678.3	627.6	557.7	474.1	382.3	300.1	237.1	169.9	135.7
75°	731.7	724.9	690.6	638.6	568.7	482.4	389.2	305.6	241.2	172.7	138.4
77.5°	742.7	734.5	701.6	648.2	575.5	490.6	394.7	309.7	245.3	175.4	141.1
80°	749.6	742.7	708.5	655.0	582.4	494.7	398.8	313.8	248.0	178.1	142.5
82.5°	757.8	749.6	715.3	660.5	589.2	500.2	402.9	316.5	250.8	179.5	143.9
85°	761.9	753.7	719.4	666.0	593.3	504.3	407.0	319.3	252.1	180.9	145.3
87.5°	764.6	756.4	723.5	668.7	596.1	507.0	408.4	320.7	253.5	182.3	145.3
89°	766.0	757.8	723.5	668.7	596.1	507.0	408.4	320.7	253.5	182.3	146.6
90°	772.9	764.6	730.4	675.6	601.6	511.1	412.5	323.4	256.2	183.6	146.6
92.5°	770.1	763.3	727.6	674.2	600.2	509.8	411.1	322.0	254.9	182.3	146.6
95°	766.0	759.2	723.5	670.1	596.1	507.0	408.4	319.3	253.5	180.9	145.3
97.5°	759.2	752.3	718.0	663.2	590.6	501.5	404.2	316.5	250.8	179.5	143.9
100°	752.3	745.5	711.2	657.8	585.1	497.4	400.1	313.8	248.0	178.1	142.5
102.5°	742.7	737.2	703.0	649.5	576.9	490.6	394.7	309.7	243.9	175.4	139.8
105°	731.7	724.9	690.6	638.6	567.3	482.4	387.8	304.2	241.2	172.7	137.0
107.5°	720.8	712.6	678.3	626.2	557.7	472.8	380.9	298.7	235.7	168.5	134.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	704.3	698.9	664.6	613.9	545.4	463.2	372.7	291.9	230.2	164.4	131.6
112.5°	687.9	682.4	650.9	600.2	533.1	452.2	364.5	285.0	224.7	160.3	128.8
115°	671.5	666.0	634.5	585.1	519.4	439.9	352.2	276.8	217.9	156.2	124.7
117.5°	655.0	648.2	616.6	568.7	504.3	427.5	339.8	268.6	212.4	152.1	120.6
120°	631.7	627.6	597.5	550.9	487.8	413.8	328.9	259.0	204.2	146.6	116.5
122.5°	611.2	607.1	576.9	531.7	471.4	398.8	317.9	250.8	197.3	141.1	112.4
125°	592.0	585.1	556.3	512.5	453.6	383.7	305.6	239.8	190.5	135.7	108.3
127.5°	568.7	561.8	534.4	491.9	435.8	368.6	291.9	230.2	182.3	128.8	104.1
130°	544.0	538.5	511.1	470.0	415.2	348.1	279.5	219.3	174.0	123.3	98.7
132.5°	519.4	513.9	487.8	448.1	396.0	331.6	265.8	208.3	164.4	117.8	93.2
135°	490.6	487.8	463.2	424.8	375.5	313.8	250.8	197.3	156.2	111.0	89.1
137.5°	465.9	460.4	437.1	401.5	350.8	296.0	237.1	186.4	146.6	104.1	83.6
140°	434.4	433.0	409.7	376.8	328.9	276.8	222.0	174.0	137.0	97.3	78.1
142.5°	408.4	404.2	383.7	348.1	307.0	257.6	206.9	163.1	127.4	90.4	72.6
145°	379.6	375.5	353.5	322.0	285.0	239.8	190.5	150.7	117.8	83.6	67.1
147.5°	346.7	342.6	326.1	297.4	261.7	220.6	175.4	138.4	108.3	76.7	61.7
150°	316.5	313.8	296.0	271.3	239.8	201.4	160.3	126.1	98.7	69.9	56.2
152.5°	286.4	283.7	270.0	245.3	216.5	180.9	145.3	113.7	89.1	63.0	50.7
155°	256.2	253.5	241.2	219.3	193.2	161.7	130.2	101.4	79.5	56.2	45.2
157.5°	226.1	223.4	212.4	193.2	169.9	142.5	113.7	89.1	69.9	49.3	39.7
160°	193.2	194.6	183.6	167.2	148.0	124.7	98.7	78.1	60.3	43.9	34.3
162.5°	164.4	164.4	156.2	142.5	126.1	105.5	83.6	65.8	52.1	37.0	30.1
165°	134.3	135.7	127.4	116.5	102.8	87.7	68.5	54.8	42.5	30.1	24.7
167.5°	106.9	108.3	101.4	93.2	82.2	69.9	56.2	43.9	34.3	24.7	20.6
170°	79.5	80.8	75.4	69.9	61.7	52.1	42.5	34.3	26.0	19.2	15.1
172.5°	54.8	56.2	52.1	48.0	42.5	37.0	30.1	23.3	19.2	13.7	11.0
175°	31.5	32.9	30.1	27.4	24.7	21.9	17.8	13.7	11.0	8.2	6.9
177.5°	9.6	9.6	9.6	8.2	8.2	6.9	6.9	5.5	5.5	4.1	4.1
180°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
2.5°	4.1	4.1	4.1	2.7	2.7	1.4	1.4	1.4	0.0	0.0
5°	5.5	4.1	4.1	2.7	2.7	1.4	1.4	0.0	0.0	0.0
7.5°	9.6	5.5	4.1	2.7	2.7	1.4	1.4	1.4	0.0	0.0
10°	12.3	6.9	4.1	2.7	2.7	1.4	1.4	1.4	0.0	0.0
12.5°	16.4	9.6	4.1	2.7	2.7	1.4	1.4	0.0	0.0	0.0
15°	19.2	11.0	5.5	2.7	1.4	1.4	1.4	0.0	0.0	0.0
17.5°	23.3	12.3	5.5	2.7	1.4	1.4	1.4	0.0	0.0	0.0
20°	27.4	13.7	6.9	2.7	1.4	1.4	1.4	0.0	0.0	0.0
22.5°	31.5	16.4	6.9	2.7	1.4	1.4	1.4	0.0	0.0	0.0
25°	35.6	17.8	8.2	2.7	1.4	1.4	1.4	0.0	0.0	0.0
27.5°	39.7	20.6	8.2	2.7	1.4	1.4	1.4	0.0	0.0	0.0
30°	43.9	21.9	9.6	2.7	1.4	1.4	1.4	0.0	0.0	0.0
32.5°	48.0	24.7	9.6	2.7	1.4	1.4	1.4	0.0	0.0	0.0
35°	52.1	26.0	11.0	4.1	1.4	1.4	1.4	0.0	0.0	0.0
37.5°	56.2	28.8	12.3	4.1	1.4	1.4	0.0	0.0	0.0	0.0
40°	60.3	30.1	12.3	4.1	1.4	1.4	0.0	0.0	0.0	0.0
42.5°	64.4	32.9	13.7	4.1	1.4	1.4	1.4	0.0	0.0	0.0
45°	68.5	34.3	13.7	4.1	1.4	1.4	1.4	0.0	0.0	0.0
47.5°	72.6	37.0	15.1	4.1	1.4	1.4	1.4	0.0	0.0	0.0
50°	75.4	38.4	16.4	5.5	1.4	1.4	1.4	0.0	0.0	0.0
52.5°	79.5	39.7	16.4	5.5	1.4	1.4	1.4	0.0	0.0	0.0
55°	82.2	42.5	17.8	5.5	1.4	1.4	1.4	0.0	0.0	0.0
57.5°	86.3	43.9	17.8	5.5	1.4	1.4	1.4	0.0	0.0	0.0
60°	89.1	45.2	19.2	5.5	1.4	1.4	1.4	1.4	0.0	1.4
62.5°	93.2	46.6	19.2	5.5	1.4	1.4	1.4	1.4	1.4	1.4
65°	95.9	48.0	19.2	6.9	1.4	1.4	1.4	1.4	1.4	1.4
67.5°	98.7	49.3	20.6	6.9	1.4	1.4	1.4	1.4	1.4	1.4
70°	100.0	50.7	20.6	6.9	1.4	1.4	1.4	1.4	1.4	1.4
72.5°	102.8	52.1	21.9	6.9	1.4	1.4	1.4	1.4	1.4	1.4
75°	105.5	53.4	21.9	6.9	1.4	1.4	1.4	1.4	1.4	1.4
77.5°	106.9	54.8	21.9	6.9	2.7	1.4	1.4	1.4	1.4	1.4
80°	108.3	54.8	23.3	6.9	2.7	1.4	1.4	1.4	1.4	1.4
82.5°	109.6	56.2	23.3	8.2	2.7	1.4	1.4	1.4	1.4	1.4
85°	109.6	56.2	23.3	8.2	2.7	1.4	1.4	1.4	1.4	1.4
87.5°	111.0	56.2	23.3	8.2	2.7	2.7	1.4	1.4	1.4	1.4
89°	111.0	56.2	23.3	8.2	2.7	2.7	2.7	2.7	2.7	2.7
90°	111.0	56.2	23.3	8.2	2.7	2.7	2.7	2.7	1.4	1.4
92.5°	111.0	56.2	23.3	8.2	2.7	2.7	1.4	1.4	1.4	1.4
95°	109.6	56.2	23.3	6.9	2.7	1.4	1.4	1.4	1.4	1.4
97.5°	109.6	54.8	21.9	6.9	2.7	1.4	1.4	1.4	1.4	1.4
100°	108.3	54.8	21.9	6.9	2.7	1.4	1.4	1.4	1.4	1.4
102.5°	105.5	53.4	21.9	6.9	1.4	1.4	1.4	1.4	1.4	1.4
105°	104.1	52.1	21.9	6.9	1.4	1.4	1.4	1.4	1.4	1.4
107.5°	101.4	50.7	20.6	6.9	1.4	1.4	1.4	1.4	1.4	1.4



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	100.0	50.7	20.6	6.9	1.4	1.4	1.4	1.4	1.4	1.4
112.5°	97.3	49.3	19.2	6.9	1.4	1.4	1.4	1.4	1.4	1.4
115°	94.6	48.0	19.2	5.5	1.4	1.4	1.4	1.4	1.4	1.4
117.5°	91.8	45.2	19.2	5.5	1.4	1.4	1.4	1.4	1.4	1.4
120°	87.7	43.9	17.8	5.5	1.4	1.4	1.4	1.4	0.0	0.0
122.5°	85.0	42.5	17.8	5.5	1.4	1.4	1.4	1.4	0.0	0.0
125°	82.2	41.1	16.4	5.5	1.4	1.4	1.4	0.0	0.0	0.0
127.5°	78.1	39.7	16.4	5.5	1.4	1.4	1.4	0.0	0.0	0.0
130°	74.0	37.0	15.1	4.1	1.4	1.4	1.4	0.0	0.0	0.0
132.5°	71.3	35.6	13.7	4.1	1.4	1.4	1.4	0.0	0.0	0.0
135°	67.1	34.3	13.7	4.1	1.4	1.4	1.4	0.0	0.0	0.0
137.5°	63.0	31.5	12.3	4.1	1.4	1.4	1.4	0.0	0.0	0.0
140°	58.9	30.1	12.3	4.1	1.4	1.4	1.4	0.0	0.0	0.0
142.5°	54.8	27.4	11.0	4.1	1.4	1.4	1.4	0.0	0.0	0.0
145°	50.7	26.0	11.0	2.7	1.4	1.4	1.4	0.0	0.0	0.0
147.5°	46.6	23.3	9.6	2.7	1.4	1.4	1.4	0.0	0.0	0.0
150°	42.5	21.9	9.6	2.7	1.4	1.4	1.4	0.0	0.0	0.0
152.5°	38.4	20.6	8.2	2.7	1.4	1.4	1.4	0.0	0.0	0.0
155°	34.3	17.8	8.2	2.7	1.4	1.4	1.4	0.0	0.0	0.0
157.5°	30.1	16.4	6.9	2.7	1.4	1.4	1.4	0.0	0.0	0.0
160°	26.0	13.7	5.5	2.7	1.4	1.4	1.4	0.0	0.0	0.0
162.5°	23.3	12.3	5.5	2.7	1.4	1.4	1.4	0.0	0.0	0.0
165°	19.2	9.6	5.5	2.7	2.7	1.4	1.4	0.0	0.0	0.0
167.5°	15.1	8.2	4.1	2.7	2.7	1.4	1.4	0.0	0.0	0.0
170°	12.3	6.9	4.1	2.7	2.7	1.4	1.4	0.0	0.0	0.0
172.5°	8.2	5.5	4.1	2.7	2.7	1.4	1.4	0.0	0.0	0.0
175°	5.5	4.1	4.1	2.7	2.7	1.4	1.4	1.4	0.0	0.0
177.5°	4.1	4.1	4.1	2.7	2.7	1.4	1.4	1.4	0.0	0.0
180°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7

(END OF REPORT)