

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: P368723

Luminaire Tested: **673-16-L3/827**

Issue Date: 11/13/2019

Test Information

Test Method: LM-79-08
Report Number: P368723
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1804-721-6)
Test Lab: INNOVATIONS CENTER
Issue Date: 11/13/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 673-16-L3/827
Description: 16" 673 SERIES LUMINOUS WALL SCONCE
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

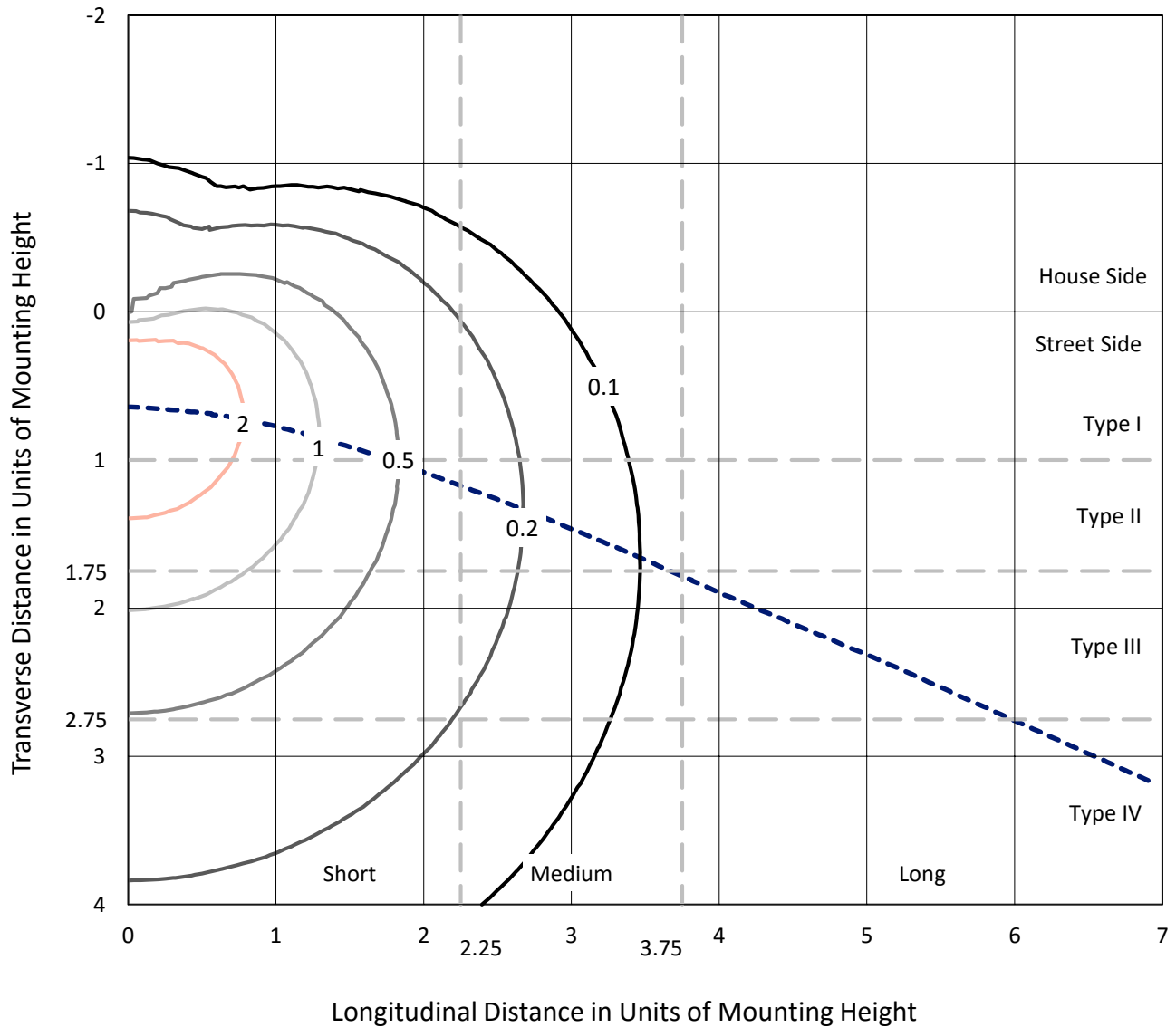
Lumens per Lamp: N/A
Luminaire Lumens: 1686.8 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.71' x L: 0.25' x H: 1.33')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - U4 - G2

Input Watts (W): 22.5
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

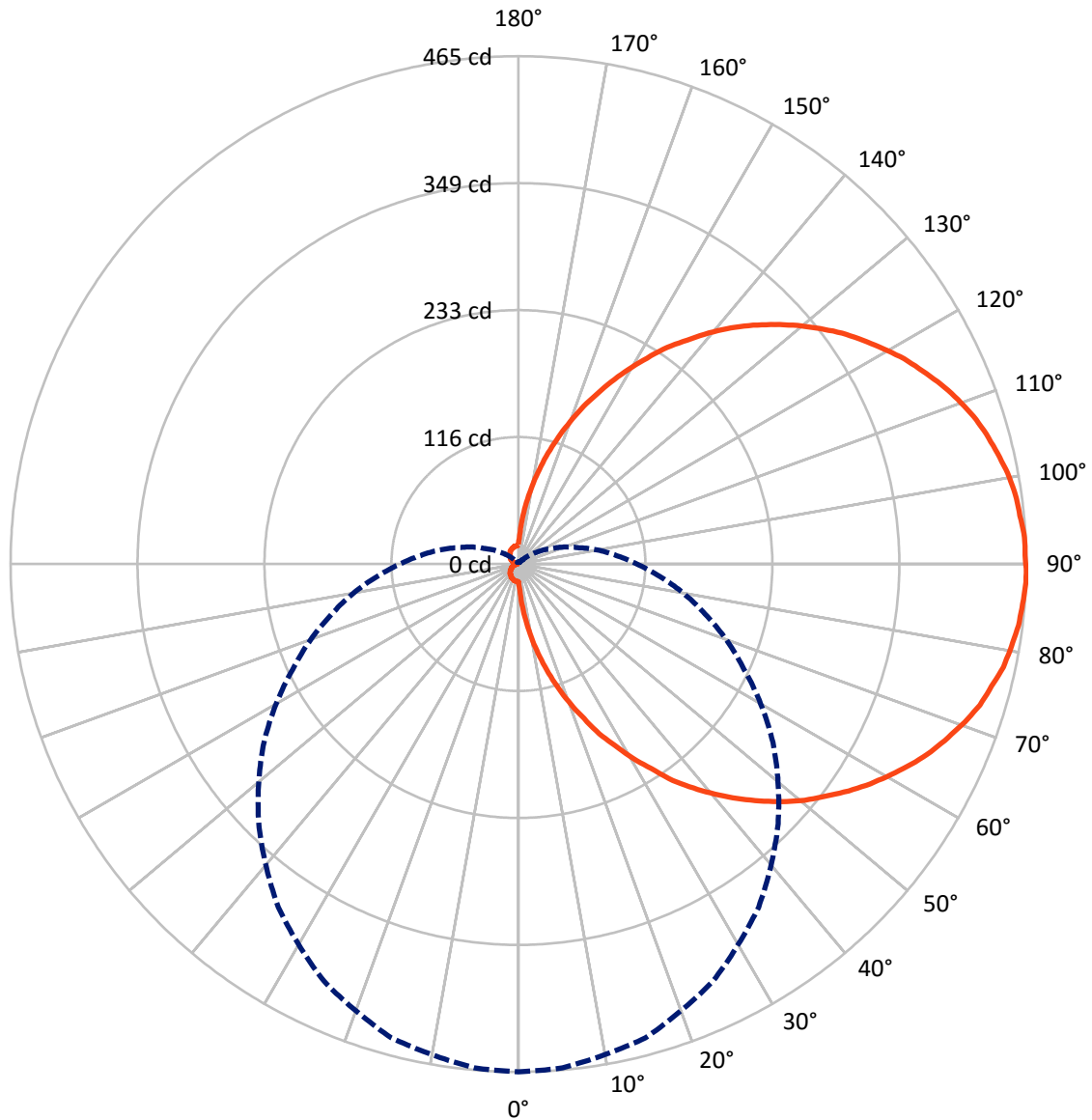
× Max cd
 - - - 1/2 Max cd



Based on 6 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 87.5-Deg Vertical

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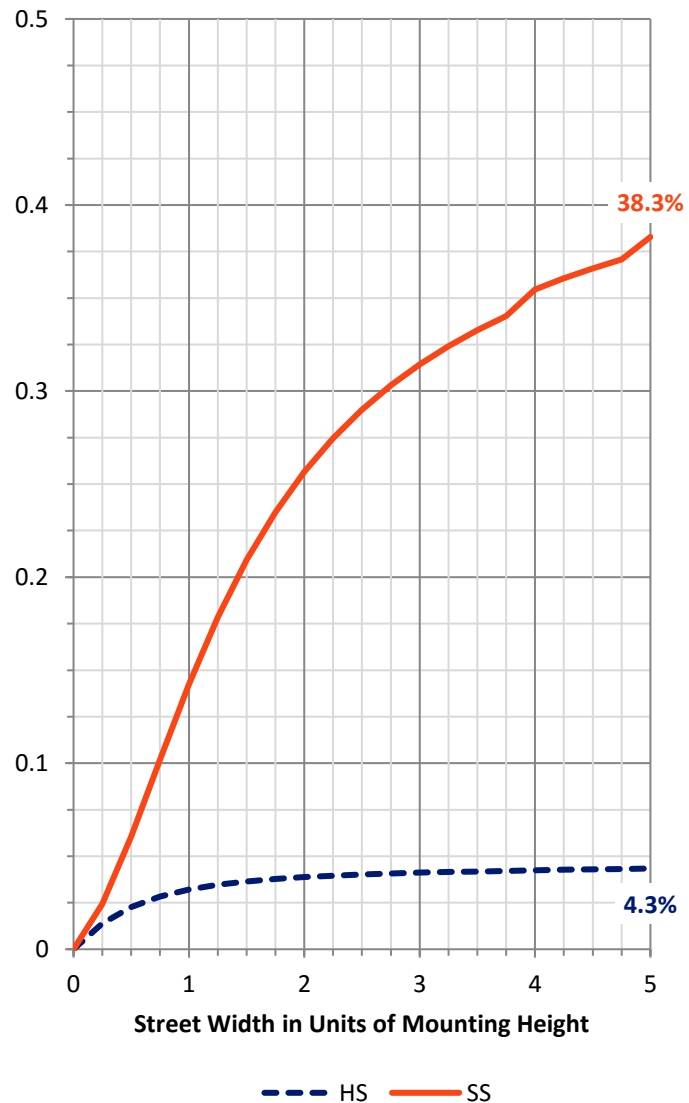
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	76.7	77.3	154.0
	% Fixture	4.5	4.6	9.1
Street Side	Lumens	768.5	764.3	1532.8
	% Fixture	45.6	45.3	90.9
Total	Lumens	845.2	841.6	1686.8
	% Fixture	50.1	49.9	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.7	0.2
10°-20°	13.9	0.8
20°-30°	33.6	2.0
30°-40°	60.6	3.6
40°-50°	92.6	5.5
50°-60°	125.2	7.4
60°-70°	154.4	9.2
70°-80°	175.9	10.4
80°-90°	186.3	11.0
90°-100°	185.9	11.0
100°-110°	175.0	10.4
110°-120°	153.3	9.1
120°-130°	124.4	7.4
130°-140°	92.2	5.5
140°-150°	60.5	3.6
150°-160°	33.6	2.0
160°-170°	13.9	0.8
170°-180°	2.7	0.2
0°-90°	845.2	50.1
0°-180°	1686.8	100.0

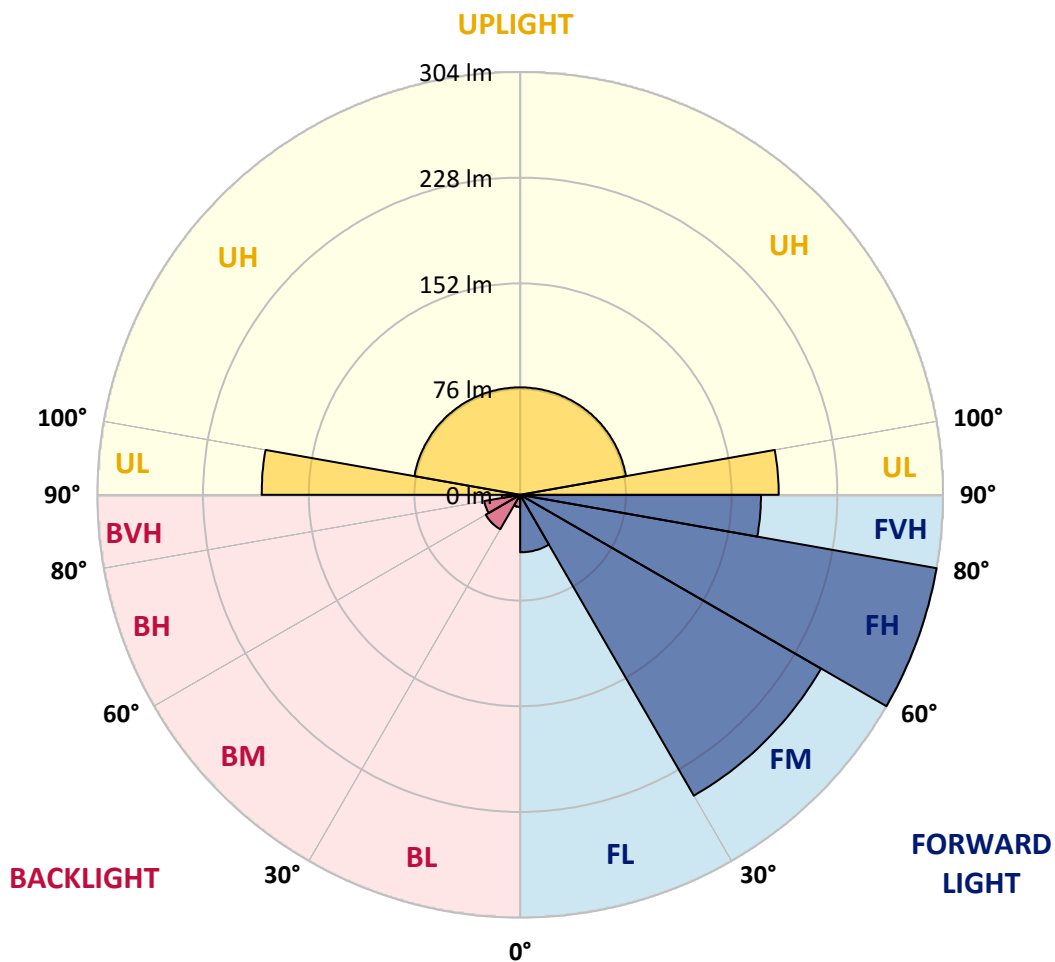


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	41.4	2.5			
FM (30°-60°)	249.9	14.8			
FH (60°-80°)	304.1	18.0			G0/660
FVH (80°-90°)	173.2	10.3			G2/225
BL (0°-30°)	8.8	0.5	B0/110		
BM (30°-60°)	28.6	1.7	B0/220		
BH (60°-80°)	26.2	1.6	B0/110		G0/110
BVH (80°-90°)	13.2	0.8			G1/100
UL (90°-100°)	185.9	11.0		U3/500	
UH (100°-180°)	77.3	4.6		U3/500	

BUG Rating: B0-U4-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
2.5°	24.1	22.2	22.2	22.2	20.4	20.4	20.4	19.5	18.5	18.5	17.6
5°	39.8	38.9	38.0	37.1	34.3	31.5	29.7	26.9	25.0	22.2	21.3
7.5°	54.7	54.7	52.8	51.0	47.3	43.6	38.9	35.2	30.6	26.9	25.0
10°	71.4	69.5	67.6	65.8	60.2	55.6	49.1	43.6	37.1	31.5	28.7
12.5°	87.1	86.2	83.4	79.7	74.1	66.7	58.4	51.0	42.6	35.2	32.4
15°	103.8	102.9	100.1	95.4	88.0	78.8	68.6	59.3	49.1	40.8	36.1
17.5°	120.5	119.5	115.8	110.3	101.9	90.8	78.8	66.7	55.6	44.5	39.8
20°	137.1	136.2	132.5	125.1	114.9	102.9	89.0	75.1	61.2	49.1	43.6
22.5°	153.8	152.9	149.2	139.9	128.8	114.9	99.2	83.4	67.6	53.7	47.3
25°	172.4	170.5	165.9	156.6	143.6	127.9	109.3	91.7	74.1	58.4	51.0
27.5°	188.1	188.1	182.6	171.4	156.6	139.0	120.5	100.1	80.6	63.0	54.7
30°	206.6	205.7	199.2	187.2	171.4	152.0	130.7	108.4	87.1	66.7	58.4
32.5°	223.3	222.4	215.9	202.0	185.3	164.0	140.9	116.8	92.7	71.4	62.1
35°	243.7	241.9	232.6	217.8	199.2	176.1	151.0	124.2	99.2	76.0	65.8
37.5°	260.4	259.5	251.1	233.5	213.1	188.1	161.2	132.5	105.6	80.6	69.5
40°	277.1	275.2	266.9	250.2	227.0	200.2	170.5	139.9	111.2	84.3	72.3
42.5°	293.8	292.8	283.6	266.0	242.8	212.2	180.7	148.3	116.8	89.0	76.0
45°	309.5	308.6	298.4	279.9	255.8	223.3	190.0	155.7	123.2	92.7	79.7
47.5°	325.3	323.4	314.1	294.7	267.8	234.4	199.2	163.1	128.8	96.4	82.5
50°	340.1	338.2	329.0	308.6	280.8	247.4	208.5	170.5	134.4	100.1	86.2
52.5°	353.1	353.1	341.9	320.6	291.9	257.6	216.8	177.0	139.0	103.8	89.0
55°	367.0	367.0	355.8	333.6	303.9	267.8	225.2	183.5	143.6	107.5	91.7
57.5°	379.9	378.1	367.9	344.7	314.1	276.1	232.6	189.0	148.3	110.3	93.6
60°	392.0	391.0	379.9	355.8	324.3	285.4	240.9	195.5	152.0	114.0	96.4
62.5°	404.0	402.2	390.1	366.0	333.6	293.8	248.3	201.1	156.6	116.8	98.2
65°	415.1	413.3	401.2	376.2	341.9	301.2	254.8	205.7	160.3	118.6	101.0
67.5°	424.4	422.6	410.5	384.6	350.3	307.7	260.4	210.4	164.0	121.4	102.9
70°	433.7	431.8	418.8	392.9	357.7	315.1	266.0	215.0	166.8	123.2	104.7
72.5°	442.0	440.2	426.3	400.3	364.2	319.7	270.6	218.7	169.6	125.1	105.6
75°	447.6	446.6	432.7	406.8	369.7	324.3	275.2	221.5	171.4	127.0	106.6
77.5°	454.1	452.2	438.3	411.4	374.4	329.0	278.0	223.3	173.3	127.9	107.5
80°	457.8	456.8	442.9	416.1	378.1	331.7	280.8	226.1	175.1	128.8	108.4
82.5°	461.5	459.6	445.7	417.9	380.9	334.5	282.6	227.0	176.1	129.7	108.4
85°	463.3	462.4	447.6	420.7	381.8	335.5	283.6	228.0	176.1	129.7	108.4
87.5°	465.2	463.3	449.4	421.6	383.6	336.4	284.5	228.0	177.0	129.7	108.4
89°	465.2	463.3	449.4	421.6	383.6	336.4	284.5	228.9	177.0	129.7	108.4
90°	464.3	462.4	448.5	421.6	382.7	336.4	284.5	228.9	177.0	129.7	109.3
92.5°	464.3	461.5	447.6	420.7	382.7	336.4	284.5	228.0	177.0	129.7	109.3
95°	461.5	460.5	446.6	418.8	381.8	334.5	283.6	228.0	177.0	129.7	109.3
97.5°	459.6	457.8	442.9	417.0	379.0	332.7	281.7	227.0	176.1	129.7	108.4
100°	455.9	454.1	440.2	413.3	376.2	330.8	279.9	225.2	175.1	128.8	108.4
102.5°	450.4	448.5	434.6	408.7	371.6	327.1	277.1	223.3	173.3	127.9	107.5
105°	444.8	442.9	430.0	404.0	367.0	322.5	273.4	220.5	171.4	127.0	106.6
107.5°	438.3	436.5	422.6	397.5	361.4	317.8	269.7	217.8	168.7	125.1	105.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	430.0	428.1	415.1	390.1	354.9	312.3	265.0	214.1	166.8	123.2	103.8
112.5°	420.7	418.8	406.8	381.8	347.5	305.8	259.5	209.4	163.1	121.4	102.9
115°	410.5	408.7	396.6	371.6	339.2	298.4	253.0	204.8	159.4	118.6	101.0
117.5°	400.3	399.4	386.4	363.3	330.8	291.0	247.4	200.2	155.7	115.8	98.2
120°	388.3	387.3	375.3	352.1	321.6	282.6	238.2	194.6	152.0	114.0	96.4
122.5°	376.2	375.3	364.2	341.0	311.4	274.3	231.7	189.0	147.3	110.3	93.6
125°	364.2	362.3	351.2	329.9	300.2	265.0	223.3	183.5	143.6	107.5	91.7
127.5°	350.3	349.4	338.2	317.8	290.0	255.8	215.9	177.0	138.1	103.8	89.0
130°	336.4	334.5	324.3	304.9	278.0	244.6	206.6	169.6	133.4	100.1	86.2
132.5°	321.6	320.6	311.4	292.8	266.0	232.6	199.2	163.1	127.9	97.3	82.5
135°	306.7	304.9	296.5	278.9	253.9	222.4	190.0	155.7	122.3	92.7	79.7
137.5°	291.0	290.0	280.8	264.1	240.9	210.4	179.8	148.3	116.8	89.0	76.9
140°	274.3	274.3	265.0	250.2	225.2	199.2	170.5	140.9	111.2	85.3	73.2
142.5°	256.7	256.7	248.3	231.7	212.2	188.1	160.3	132.5	104.7	80.6	69.5
145°	240.9	239.1	230.7	216.8	198.3	175.1	150.1	124.2	99.2	76.0	65.8
147.5°	222.4	221.5	215.0	202.0	184.4	164.0	140.9	116.8	93.6	72.3	63.0
150°	204.8	204.8	198.3	187.2	170.5	151.0	130.7	108.4	87.1	67.6	59.3
152.5°	187.2	187.2	180.7	170.5	156.6	139.0	119.5	100.1	80.6	63.0	55.6
155°	169.6	169.6	164.0	155.7	142.7	127.0	109.3	91.7	74.1	58.4	51.9
157.5°	152.9	152.9	148.3	140.9	128.8	114.0	99.2	83.4	68.6	53.7	48.2
160°	135.3	136.2	131.6	125.1	114.9	102.9	89.0	75.1	62.1	50.0	44.5
162.5°	118.6	118.6	114.9	109.3	101.0	89.9	78.8	66.7	55.6	45.4	40.8
165°	101.9	101.9	99.2	94.5	87.1	77.8	68.6	58.4	49.1	40.8	37.1
167.5°	85.3	85.3	83.4	79.7	73.2	66.7	59.3	51.0	43.6	36.1	33.4
170°	69.5	69.5	68.6	65.8	60.2	55.6	49.1	43.6	37.1	31.5	29.7
172.5°	53.7	54.7	52.8	51.0	47.3	43.6	39.8	35.2	31.5	27.8	25.9
175°	38.9	38.9	38.0	37.1	34.3	32.4	29.7	26.9	25.0	22.2	21.3
177.5°	23.2	23.2	23.2	23.2	22.2	21.3	21.3	20.4	19.5	18.5	18.5
180°	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
2.5°	17.6	17.6	16.7	16.7	16.7	16.7	16.7	15.8	15.8	15.8
5°	20.4	18.5	17.6	16.7	16.7	16.7	15.8	15.8	15.8	15.8
7.5°	23.2	20.4	18.5	17.6	16.7	16.7	15.8	15.8	15.8	15.8
10°	26.9	23.2	20.4	17.6	16.7	15.8	15.8	15.8	15.8	15.8
12.5°	29.7	25.0	21.3	18.5	16.7	15.8	15.8	15.8	15.8	15.8
15°	32.4	26.9	22.2	18.5	16.7	15.8	15.8	15.8	15.8	15.8
17.5°	35.2	28.7	23.2	18.5	16.7	15.8	14.8	14.8	14.8	14.8
20°	38.0	29.7	23.2	19.5	16.7	14.8	14.8	14.8	14.8	14.8
22.5°	41.7	31.5	24.1	19.5	15.8	14.8	14.8	14.8	14.8	14.8
25°	44.5	33.4	25.0	19.5	15.8	14.8	13.9	13.9	13.9	13.9
27.5°	47.3	35.2	25.9	19.5	15.8	13.9	13.9	13.9	13.9	13.9
30°	50.0	37.1	26.9	20.4	15.8	13.9	13.9	13.9	13.9	13.9
32.5°	52.8	38.9	27.8	20.4	15.8	13.0	13.0	13.0	13.0	13.0
35°	56.5	39.8	28.7	20.4	14.8	13.0	13.0	13.0	12.0	12.0
37.5°	59.3	41.7	28.7	20.4	14.8	12.0	12.0	12.0	12.0	12.0
40°	62.1	43.6	29.7	20.4	14.8	12.0	12.0	12.0	12.0	12.0
42.5°	64.9	45.4	30.6	20.4	13.9	11.1	11.1	11.1	11.1	11.1
45°	67.6	46.3	30.6	20.4	13.9	11.1	11.1	10.2	11.1	11.1
47.5°	69.5	48.2	31.5	20.4	13.0	10.2	10.2	10.2	10.2	10.2
50°	72.3	49.1	32.4	20.4	13.0	10.2	9.3	9.3	9.3	9.3
52.5°	74.1	50.0	32.4	20.4	12.0	9.3	9.3	9.3	9.3	9.3
55°	76.9	51.9	33.4	20.4	12.0	8.3	8.3	8.3	8.3	8.3
57.5°	78.8	52.8	33.4	19.5	11.1	8.3	7.4	8.3	7.4	7.4
60°	80.6	53.7	33.4	19.5	11.1	7.4	7.4	7.4	7.4	7.4
62.5°	82.5	54.7	34.3	19.5	11.1	6.5	6.5	6.5	6.5	6.5
65°	83.4	55.6	34.3	19.5	10.2	6.5	6.5	6.5	6.5	6.5
67.5°	85.3	55.6	34.3	19.5	10.2	5.6	5.6	5.6	5.6	5.6
70°	86.2	56.5	34.3	19.5	9.3	5.6	5.6	5.6	5.6	5.6
72.5°	87.1	57.5	34.3	18.5	9.3	4.6	4.6	4.6	4.6	4.6
75°	88.0	57.5	34.3	18.5	8.3	3.7	3.7	3.7	3.7	3.7
77.5°	89.0	57.5	34.3	18.5	8.3	3.7	3.7	3.7	3.7	3.7
80°	89.0	57.5	34.3	17.6	7.4	2.8	2.8	2.8	2.8	2.8
82.5°	89.9	57.5	33.4	17.6	7.4	2.8	2.8	2.8	2.8	2.8
85°	89.9	57.5	33.4	16.7	6.5	1.9	1.9	1.9	1.9	1.9
87.5°	89.9	57.5	33.4	16.7	5.6	0.9	0.9	0.9	0.9	0.9
89°	89.9	57.5	33.4	16.7	5.6	0.9	0.9	0.9	0.9	0.9
90°	89.9	57.5	33.4	16.7	5.6	0.9	0.9	0.9	0.9	0.9
92.5°	89.9	57.5	33.4	16.7	5.6	1.9	0.9	0.9	0.9	0.9
95°	89.9	57.5	33.4	16.7	6.5	1.9	1.9	1.9	1.9	1.9
97.5°	89.9	57.5	33.4	17.6	7.4	2.8	2.8	2.8	2.8	2.8
100°	89.9	57.5	34.3	17.6	7.4	2.8	2.8	2.8	2.8	2.8
102.5°	89.0	57.5	34.3	17.6	8.3	3.7	3.7	3.7	3.7	3.7
105°	88.0	57.5	34.3	18.5	8.3	3.7	3.7	3.7	3.7	3.7
107.5°	87.1	57.5	34.3	18.5	9.3	4.6	4.6	4.6	4.6	4.6



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	86.2	56.5	34.3	19.5	9.3	5.6	5.6	5.6	5.6	5.6
112.5°	85.3	56.5	34.3	19.5	10.2	5.6	5.6	5.6	5.6	5.6
115°	83.4	55.6	34.3	19.5	10.2	6.5	6.5	6.5	6.5	6.5
117.5°	82.5	54.7	34.3	19.5	11.1	7.4	6.5	6.5	6.5	6.5
120°	80.6	53.7	34.3	20.4	11.1	7.4	7.4	7.4	7.4	7.4
122.5°	78.8	52.8	33.4	20.4	12.0	8.3	8.3	8.3	8.3	8.3
125°	76.9	51.9	33.4	20.4	12.0	8.3	8.3	8.3	8.3	8.3
127.5°	74.1	51.0	32.4	20.4	13.0	9.3	9.3	9.3	9.3	9.3
130°	72.3	49.1	32.4	20.4	13.0	10.2	9.3	10.2	9.3	9.3
132.5°	69.5	48.2	31.5	20.4	13.9	10.2	10.2	10.2	10.2	10.2
135°	67.6	46.3	31.5	20.4	13.9	11.1	11.1	11.1	11.1	11.1
137.5°	64.9	45.4	30.6	20.4	13.9	12.0	11.1	11.1	11.1	11.1
140°	62.1	43.6	29.7	20.4	14.8	12.0	12.0	12.0	12.0	12.0
142.5°	59.3	41.7	29.7	20.4	14.8	13.0	13.0	12.0	12.0	12.0
145°	56.5	40.8	28.7	20.4	15.8	13.0	13.0	13.0	13.0	13.0
147.5°	53.7	38.9	27.8	20.4	15.8	13.9	13.9	13.9	13.9	13.9
150°	51.0	37.1	27.8	20.4	15.8	13.9	13.9	13.9	13.9	13.9
152.5°	48.2	36.1	26.9	20.4	16.7	14.8	14.8	14.8	14.8	14.8
155°	45.4	34.3	25.9	20.4	16.7	14.8	14.8	14.8	14.8	14.8
157.5°	41.7	32.4	25.0	20.4	16.7	15.8	14.8	14.8	14.8	14.8
160°	38.9	30.6	24.1	19.5	16.7	15.8	15.8	15.8	15.8	15.8
162.5°	36.1	28.7	23.2	19.5	17.6	15.8	15.8	15.8	15.8	15.8
165°	33.4	26.9	22.2	19.5	17.6	16.7	15.8	15.8	15.8	15.8
167.5°	30.6	25.0	21.3	18.5	17.6	16.7	16.7	16.7	15.8	16.7
170°	26.9	23.2	20.4	18.5	17.6	16.7	16.7	16.7	16.7	16.7
172.5°	24.1	21.3	19.5	18.5	17.6	16.7	16.7	16.7	16.7	16.7
175°	20.4	19.5	18.5	17.6	16.7	16.7	16.7	16.7	16.7	16.7
177.5°	18.5	18.5	17.6	17.6	17.6	16.7	16.7	16.7	16.7	16.7
180°	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6

(END OF REPORT)