

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: P368741

Luminaire Tested: **674-W-43-L4/835**

Issue Date: 11/13/2019

Test Information

Test Method: LM-79-08
Report Number: P368741
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1804-721-14)
Test Lab: INNOVATIONS CENTER
Issue Date: 11/13/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 674-W-43-L4/835
Description: 43" 674 SERIES LUMINOUS WALL SCONCE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

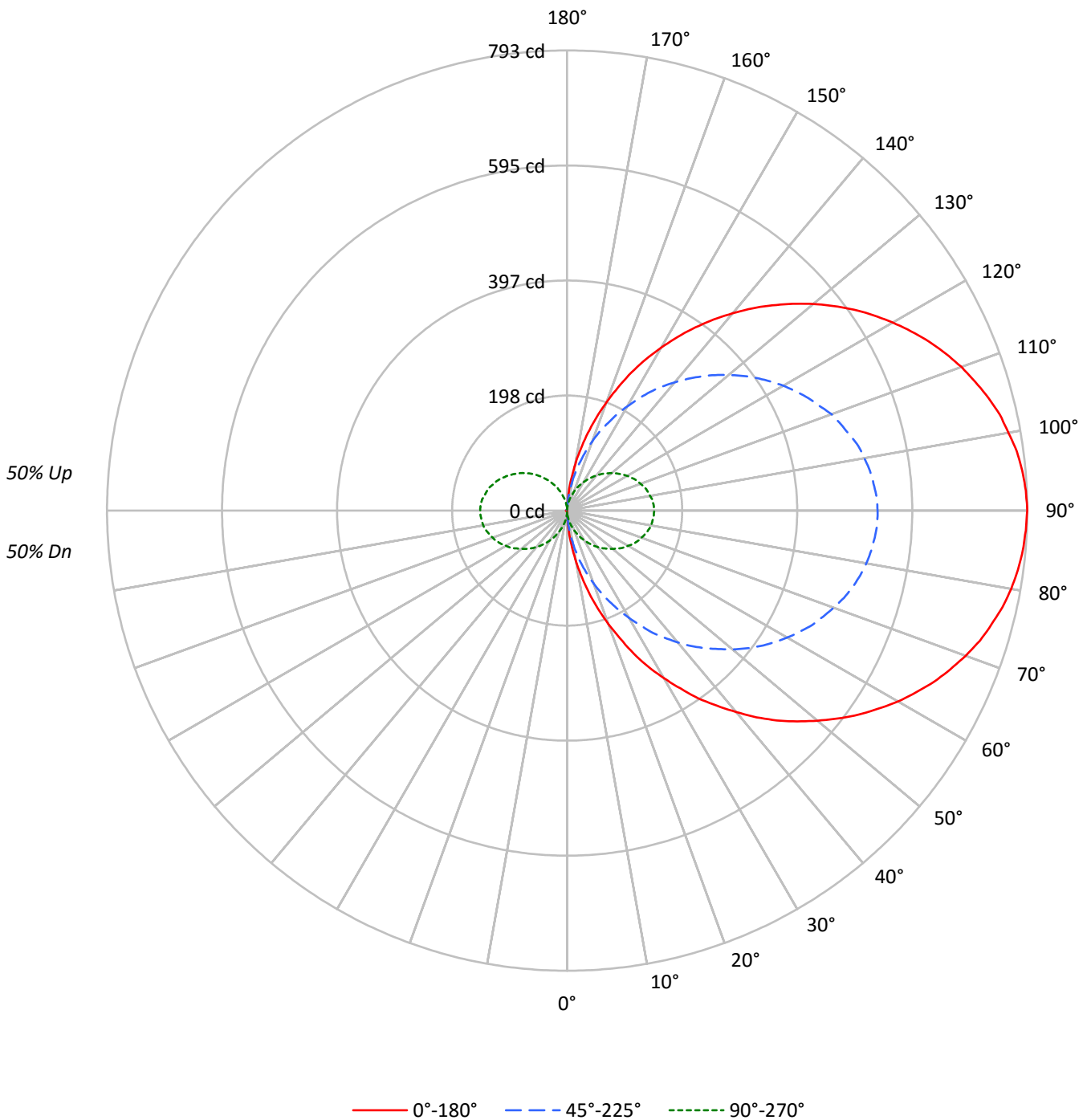
Lumens per Lamp: N/A
Luminaire Lumens: 2482.5 lumens
Efficiency: N/A
Efficacy: 70.9 lumens/watt
Spacing Criteria (0/90/45): 14.75 / 10.53 / 11.57
Luminous Opening: Rectangular w/ Sides (W: 0.71' x L: 0.21' x H: 3.58')
CIE Type: General Diffuse

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: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	107	107	107	107	99	99	99	99	84	84	84	69	69	69	56	56	56	50
1	92	85	79	73	84	78	72	67	64	60	56	52	49	46	40	38	36	30
2	81	71	62	55	74	65	57	50	53	47	42	42	37	33	32	29	26	20
3	73	60	51	43	66	55	46	39	45	38	32	35	30	26	27	23	19	15
4	66	52	42	35	59	47	39	32	39	32	26	30	25	20	23	18	15	11
5	60	46	36	29	54	42	33	26	34	27	21	27	21	17	20	15	12	8
6	55	40	31	24	49	37	28	22	30	23	18	24	18	14	18	13	10	7
7	50	36	27	20	45	33	25	19	27	20	15	21	16	12	16	12	8	5
8	46	32	24	18	42	30	22	16	24	18	13	19	14	10	14	10	7	4
9	43	29	21	15	39	27	19	14	22	16	11	17	12	9	13	9	6	4
10	40	27	19	13	36	24	17	12	20	14	10	16	11	8	12	8	5	3

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	139	139	139
5°	1158	431	0
10°	1660	666	0
15°	1991	846	0
20°	2225	1003	0
25°	2429	1150	0
30°	2569	1274	0
35°	2701	1384	0
40°	2795	1487	0
45°	2899	1571	0
50°	2973	1658	0
55°	3050	1747	0
60°	3119	1816	4
65°	3179	1894	4
70°	3230	1955	4
75°	3273	2016	8
80°	3312	2078	8
85°	3339	2117	8



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.8	0.1
10°-20°	14.4	0.6
20°-30°	41.7	1.7
30°-40°	82.1	3.3
40°-50°	131.4	5.3
50°-60°	183.9	7.4
60°-70°	232.5	9.4
70°-80°	270.6	10.9
80°-90°	291.3	11.7
90°-100°	290.5	11.7
100°-110°	268.3	10.8
110°-120°	229.4	9.2
120°-130°	180.7	7.3
130°-140°	128.7	5.2
140°-150°	80.0	3.2
150°-160°	40.2	1.6
160°-170°	13.6	0.5
170°-180°	1.6	0.1
0°-30°	57.9	2.3
0°-40°	140.0	5.6
0°-60°	455.2	18.3
0°-90°	1249.6	50.3
90°-120°	788.2	31.8
90°-150°	1177.5	47.4
90°-180°	1233.0	49.7
0°-180°	2482.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2	2	2	2	2	
5°	40	25	8	2	0	5
15°	148	95	26	2	0	44
25°	272	173	48	2	0	127
35°	396	257	71	1	0	249
45°	511	335	92	1	0	396
55°	613	407	113	2	0	550
65°	698	466	130	2	1	692
75°	757	510	142	2	2	800
85°	788	532	149	2	2	642
90°	793	535	150	2	2	434
95°	787	530	149	2	2	640
105°	752	504	141	2	2	794
115°	688	459	128	2	1	683
125°	604	398	110	2	0	541
135°	500	327	90	2	0	388
145°	385	250	68	2	0	243
155°	263	167	46	2	0	123
165°	138	88	24	2	0	41
175°	32	20	7	2	0	5
180°	2	2	2	2	2	



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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°	17.0	14.1	15.1	14.1	12.2	10.4	8.5	7.5	5.7	4.7	4.7
5°	39.6	37.7	36.7	33.9	30.1	25.4	20.7	17.0	13.2	9.4	8.5
7.5°	63.1	61.2	59.3	55.6	48.0	40.5	33.0	26.4	20.7	15.1	12.2
10°	90.4	87.6	84.8	78.2	68.8	57.5	46.1	36.7	28.3	20.7	17.0
12.5°	117.7	115.8	111.1	102.7	89.5	76.3	60.3	47.1	36.7	26.4	21.7
15°	147.9	145.0	139.4	128.1	112.1	95.1	75.3	59.3	46.1	33.0	26.4
17.5°	178.0	175.2	167.6	154.5	134.7	114.0	91.4	71.6	55.6	39.6	32.0
20°	208.1	205.3	196.8	180.8	158.2	133.7	106.4	83.8	65.0	46.1	36.7
22.5°	238.3	235.5	225.1	207.2	180.8	153.5	122.4	96.1	74.4	52.7	42.4
25°	272.2	268.4	257.1	233.6	206.3	173.3	138.4	108.3	84.8	60.3	48.0
27.5°	304.2	299.5	285.4	262.8	229.8	193.1	154.5	120.6	94.2	66.9	53.7
30°	333.4	329.6	316.5	288.2	256.2	213.8	171.4	133.7	104.5	74.4	59.3
32.5°	363.5	360.7	343.8	315.5	279.7	233.6	187.4	146.9	114.9	81.0	65.0
35°	395.6	391.8	373.0	341.9	303.3	257.1	203.4	159.2	124.3	88.5	70.6
37.5°	423.8	420.1	399.3	368.3	326.8	276.0	219.4	172.4	134.7	95.1	76.3
40°	453.0	450.2	429.5	393.7	350.4	296.7	235.5	184.6	144.1	102.7	81.9
42.5°	483.2	478.4	454.9	419.1	373.0	316.5	253.3	196.8	153.5	109.3	87.6
45°	511.4	505.8	482.2	444.5	394.6	335.3	269.4	209.1	163.9	115.8	92.3
47.5°	537.8	533.1	506.7	468.1	416.3	353.2	283.5	221.3	172.4	122.4	97.9
50°	563.2	559.4	532.1	491.6	437.0	372.0	299.5	232.6	181.8	129.0	102.7
52.5°	588.6	583.9	555.7	514.2	458.7	389.9	312.7	244.9	190.2	135.6	107.4
55°	613.1	608.4	579.2	535.9	477.5	406.9	326.8	257.1	198.7	141.3	113.0
57.5°	635.7	631.0	601.8	556.6	496.3	422.9	340.0	267.5	207.2	147.9	117.7
60°	658.3	652.7	622.5	576.4	515.2	437.9	353.2	276.9	214.7	152.6	121.5
62.5°	678.1	672.5	641.4	594.3	531.2	452.1	364.5	286.3	222.3	158.2	126.2
65°	697.9	692.2	660.2	612.2	547.2	466.2	374.8	295.7	228.9	162.9	130.0
67.5°	714.8	709.2	677.2	628.2	561.3	477.5	385.2	303.3	235.5	167.6	133.7
70°	730.9	724.3	693.2	643.3	574.5	488.8	394.6	310.8	242.0	171.4	136.6
72.5°	745.9	739.3	706.4	656.4	587.7	500.1	404.0	317.4	247.7	175.2	139.4
75°	757.2	750.6	718.6	667.7	598.1	509.5	410.6	323.0	253.3	178.0	142.2
77.5°	768.5	761.0	729.0	678.1	606.5	517.1	417.2	328.7	257.1	180.8	145.0
80°	777.0	770.4	737.4	686.6	614.1	523.7	422.9	332.5	260.9	183.7	146.9
82.5°	783.6	777.0	744.0	692.2	619.7	528.4	426.6	336.2	262.8	185.5	147.9
85°	788.3	781.7	749.7	696.9	624.4	532.1	429.5	338.1	265.6	186.5	148.8
87.5°	791.1	784.5	751.6	699.8	626.3	535.0	431.4	339.1	266.5	187.4	149.7
89°	792.1	785.5	752.5	699.8	627.3	535.0	432.3	340.0	266.5	187.4	149.7
90°	793.0	786.4	753.5	700.7	627.3	535.0	431.4	340.0	266.5	187.4	149.7
92.5°	791.1	784.5	751.6	698.8	625.4	534.0	430.4	340.0	265.6	187.4	149.7
95°	787.4	779.8	747.8	695.1	621.6	530.2	428.5	337.2	264.7	186.5	148.8
97.5°	781.7	774.2	742.2	689.4	616.9	526.5	424.8	335.3	262.8	184.6	147.9
100°	772.3	766.6	733.7	681.9	609.4	519.9	419.1	330.6	259.0	181.8	145.0
102.5°	763.8	756.3	724.3	673.4	601.8	514.2	414.4	326.8	255.2	179.9	143.2
105°	751.6	745.0	713.0	662.1	591.5	503.9	406.9	321.2	251.5	176.1	141.3
107.5°	737.4	731.8	699.8	649.9	581.1	494.5	399.3	314.6	245.8	173.3	138.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	723.3	717.7	685.6	636.7	567.9	485.0	390.9	308.0	239.2	169.5	134.7
112.5°	706.4	700.7	670.6	620.7	553.8	470.9	380.5	299.5	232.6	164.8	131.9
115°	688.5	682.8	652.7	604.6	539.7	458.7	370.1	291.0	226.0	160.1	128.1
117.5°	668.7	664.0	634.8	586.8	523.7	444.5	358.8	282.5	218.5	155.4	123.4
120°	648.0	643.3	614.1	567.9	505.8	430.4	346.6	273.1	211.9	149.7	119.6
122.5°	626.3	620.7	593.3	548.1	487.9	414.4	334.3	262.8	203.4	144.1	114.9
125°	603.7	599.0	571.7	527.4	470.0	398.4	321.2	252.4	195.9	138.4	110.2
127.5°	579.2	574.5	548.1	505.8	450.2	381.4	307.0	240.2	187.4	131.9	105.5
130°	553.8	550.0	524.6	483.2	428.5	363.5	292.9	227.9	178.0	126.2	100.8
132.5°	527.4	523.7	499.2	459.6	408.7	345.6	277.8	216.6	169.5	119.6	95.1
135°	500.1	496.3	473.7	435.1	385.2	326.8	262.8	204.4	160.1	113.0	90.4
137.5°	472.8	470.0	447.4	410.6	363.5	308.0	247.7	192.1	150.7	106.4	84.8
140°	443.6	440.8	420.1	385.2	340.9	288.2	229.8	179.9	140.3	98.9	79.1
142.5°	415.3	411.6	391.8	359.8	318.3	269.4	213.8	167.6	130.0	92.3	73.5
145°	385.2	383.3	364.5	335.3	294.8	249.6	197.8	154.5	120.6	85.7	67.8
147.5°	355.1	353.2	335.3	308.9	271.2	227.9	180.8	142.2	111.1	78.2	62.2
150°	324.0	323.0	307.0	281.6	247.7	207.2	164.8	129.0	100.8	71.6	56.5
152.5°	293.8	292.0	276.9	254.3	222.3	187.4	149.7	116.8	91.4	64.0	50.9
155°	262.8	261.8	248.6	226.0	197.8	166.7	132.8	104.5	81.0	57.5	46.1
157.5°	229.8	228.9	216.6	198.7	174.2	147.9	116.8	92.3	71.6	50.9	40.5
160°	198.7	197.8	187.4	172.4	151.6	127.1	100.8	80.1	62.2	43.3	34.8
162.5°	168.6	167.6	158.2	146.0	128.1	107.4	85.7	67.8	52.7	36.7	29.2
165°	138.4	137.5	130.0	118.7	104.5	87.6	70.6	55.6	43.3	30.1	24.5
167.5°	109.3	109.3	103.6	96.1	82.9	69.7	55.6	44.3	33.9	24.5	19.8
170°	81.9	81.9	77.2	70.6	62.2	51.8	42.4	33.0	26.4	18.8	15.1
172.5°	55.6	55.6	51.8	47.1	42.4	35.8	29.2	23.5	17.9	13.2	10.4
175°	32.0	32.0	29.2	27.3	23.5	19.8	17.0	14.1	10.4	7.5	6.6
177.5°	10.4	10.4	9.4	8.5	8.5	6.6	5.7	4.7	3.8	3.8	3.8
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°	3.8	3.8	2.8	2.8	1.9	1.9	0.9	0.9	0.0	0.0
5°	6.6	3.8	3.8	2.8	1.9	1.9	0.9	0.9	0.0	0.0
7.5°	9.4	5.7	3.8	2.8	1.9	1.9	0.9	0.9	0.0	0.0
10°	13.2	7.5	3.8	2.8	1.9	1.9	0.9	0.9	0.0	0.0
12.5°	17.0	9.4	4.7	2.8	1.9	1.9	0.9	0.9	0.0	0.0
15°	20.7	11.3	5.7	2.8	1.9	0.9	0.9	0.9	0.0	0.0
17.5°	24.5	13.2	5.7	2.8	1.9	0.9	0.9	0.0	0.0	0.0
20°	28.3	15.1	6.6	2.8	1.9	0.9	0.9	0.0	0.0	0.0
22.5°	32.0	17.0	7.5	2.8	1.9	0.9	0.9	0.0	0.0	0.0
25°	36.7	18.8	8.5	2.8	1.9	0.9	0.9	0.0	0.0	0.0
27.5°	40.5	20.7	8.5	2.8	1.9	0.9	0.9	0.0	0.0	0.0
30°	45.2	22.6	9.4	2.8	0.9	0.9	0.9	0.0	0.0	0.0
32.5°	49.0	24.5	10.4	2.8	0.9	0.9	0.9	0.0	0.0	0.0
35°	53.7	27.3	11.3	3.8	0.9	0.9	0.9	0.0	0.0	0.0
37.5°	57.5	29.2	12.2	3.8	0.9	0.9	0.9	0.0	0.0	0.0
40°	62.2	31.1	13.2	3.8	0.9	0.9	0.9	0.0	0.0	0.0
42.5°	65.9	33.0	13.2	3.8	0.9	0.9	0.9	0.0	0.0	0.0
45°	70.6	34.8	14.1	4.7	0.9	0.9	0.9	0.0	0.0	0.0
47.5°	74.4	37.7	15.1	4.7	1.9	0.9	0.9	0.0	0.0	0.0
50°	78.2	38.6	16.0	4.7	1.9	0.9	0.9	0.9	0.0	0.0
52.5°	81.9	40.5	17.0	4.7	1.9	0.9	0.9	0.9	0.0	0.0
55°	85.7	42.4	17.9	5.7	1.9	0.9	0.9	0.9	0.0	0.0
57.5°	88.5	44.3	17.9	5.7	1.9	0.9	0.9	0.9	0.9	0.9
60°	92.3	46.1	18.8	5.7	1.9	0.9	0.9	0.9	0.9	0.9
62.5°	95.1	48.0	19.8	5.7	1.9	0.9	0.9	0.9	0.9	0.9
65°	97.9	49.0	19.8	6.6	1.9	1.9	0.9	0.9	0.9	0.9
67.5°	100.8	50.9	20.7	6.6	1.9	1.9	0.9	0.9	0.9	0.9
70°	103.6	51.8	20.7	6.6	1.9	1.9	0.9	0.9	0.9	0.9
72.5°	105.5	52.7	21.7	6.6	1.9	1.9	1.9	1.9	1.9	1.9
75°	107.4	53.7	21.7	7.5	1.9	1.9	1.9	1.9	1.9	1.9
77.5°	109.3	54.6	22.6	7.5	1.9	1.9	1.9	1.9	1.9	1.9
80°	111.1	55.6	22.6	7.5	1.9	1.9	1.9	1.9	1.9	1.9
82.5°	112.1	56.5	22.6	7.5	1.9	1.9	1.9	1.9	1.9	1.9
85°	113.0	56.5	23.5	7.5	1.9	1.9	1.9	1.9	1.9	1.9
87.5°	113.0	57.5	23.5	7.5	1.9	1.9	1.9	1.9	1.9	1.9
89°	113.0	57.5	23.5	7.5	1.9	1.9	1.9	1.9	1.9	1.9
90°	113.0	56.5	23.5	7.5	1.9	1.9	1.9	1.9	1.9	1.9
92.5°	113.0	56.5	23.5	7.5	1.9	1.9	1.9	1.9	1.9	1.9
95°	112.1	56.5	22.6	7.5	1.9	1.9	1.9	1.9	1.9	1.9
97.5°	111.1	56.5	22.6	7.5	1.9	1.9	1.9	1.9	1.9	1.9
100°	110.2	55.6	22.6	7.5	1.9	1.9	1.9	1.9	1.9	1.9
102.5°	108.3	54.6	22.6	7.5	1.9	1.9	1.9	1.9	1.9	1.9
105°	106.4	53.7	21.7	6.6	1.9	1.9	1.9	1.9	1.9	1.9
107.5°	104.5	51.8	21.7	6.6	1.9	1.9	1.9	1.9	0.9	0.9



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	101.7	50.9	20.7	6.6	1.9	1.9	0.9	0.9	0.9	0.9
112.5°	98.9	49.9	19.8	6.6	1.9	1.9	0.9	0.9	0.9	0.9
115°	96.1	48.0	19.8	6.6	1.9	1.9	0.9	0.9	0.9	0.9
117.5°	93.2	46.1	18.8	5.7	1.9	1.9	0.9	0.9	0.9	0.9
120°	90.4	45.2	17.9	5.7	1.9	0.9	0.9	0.9	0.9	0.9
122.5°	86.6	43.3	17.9	5.7	1.9	0.9	0.9	0.9	0.9	0.9
125°	82.9	41.4	17.0	5.7	1.9	0.9	0.9	0.9	0.0	0.0
127.5°	79.1	39.6	16.0	4.7	1.9	0.9	0.9	0.9	0.0	0.0
130°	75.3	37.7	16.0	4.7	1.9	0.9	0.9	0.9	0.0	0.0
132.5°	71.6	35.8	15.1	4.7	1.9	0.9	0.9	0.9	0.0	0.0
135°	67.8	33.9	14.1	4.7	1.9	0.9	0.9	0.9	0.0	0.0
137.5°	64.0	32.0	13.2	3.8	1.9	0.9	0.9	0.9	0.0	0.0
140°	59.3	30.1	12.2	3.8	1.9	0.9	0.9	0.0	0.0	0.0
142.5°	55.6	28.3	11.3	3.8	1.9	0.9	0.9	0.0	0.0	0.0
145°	51.8	25.4	10.4	3.8	1.9	0.9	0.9	0.0	0.0	0.0
147.5°	47.1	23.5	9.4	2.8	1.9	0.9	0.9	0.0	0.0	0.0
150°	42.4	21.7	9.4	2.8	1.9	0.9	0.9	0.0	0.0	0.0
152.5°	38.6	19.8	8.5	2.8	1.9	0.9	0.9	0.0	0.0	0.0
155°	34.8	17.9	7.5	2.8	1.9	0.9	0.9	0.0	0.0	0.0
157.5°	30.1	16.0	6.6	2.8	1.9	0.9	0.9	0.0	0.0	0.0
160°	26.4	14.1	5.7	2.8	1.9	0.9	0.9	0.9	0.0	0.0
162.5°	22.6	12.2	5.7	2.8	1.9	0.9	0.9	0.0	0.0	0.0
165°	18.8	10.4	4.7	2.8	1.9	0.9	0.9	0.9	0.0	0.0
167.5°	15.1	8.5	3.8	2.8	1.9	1.9	0.9	0.9	0.0	0.0
170°	11.3	6.6	3.8	2.8	1.9	1.9	0.9	0.9	0.0	0.0
172.5°	8.5	4.7	3.8	2.8	1.9	1.9	0.9	0.9	0.0	0.0
175°	4.7	3.8	2.8	2.8	1.9	1.9	0.9	0.9	0.0	0.0
177.5°	3.8	3.8	2.8	2.8	1.9	1.9	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)