

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: P368739

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

Issue Date: 11/13/2019

Test Information

Test Method: LM-79-08
Report Number: P368739
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-L4/827
Description: 43" 674 SERIES LUMINOUS WALL SCONCE
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

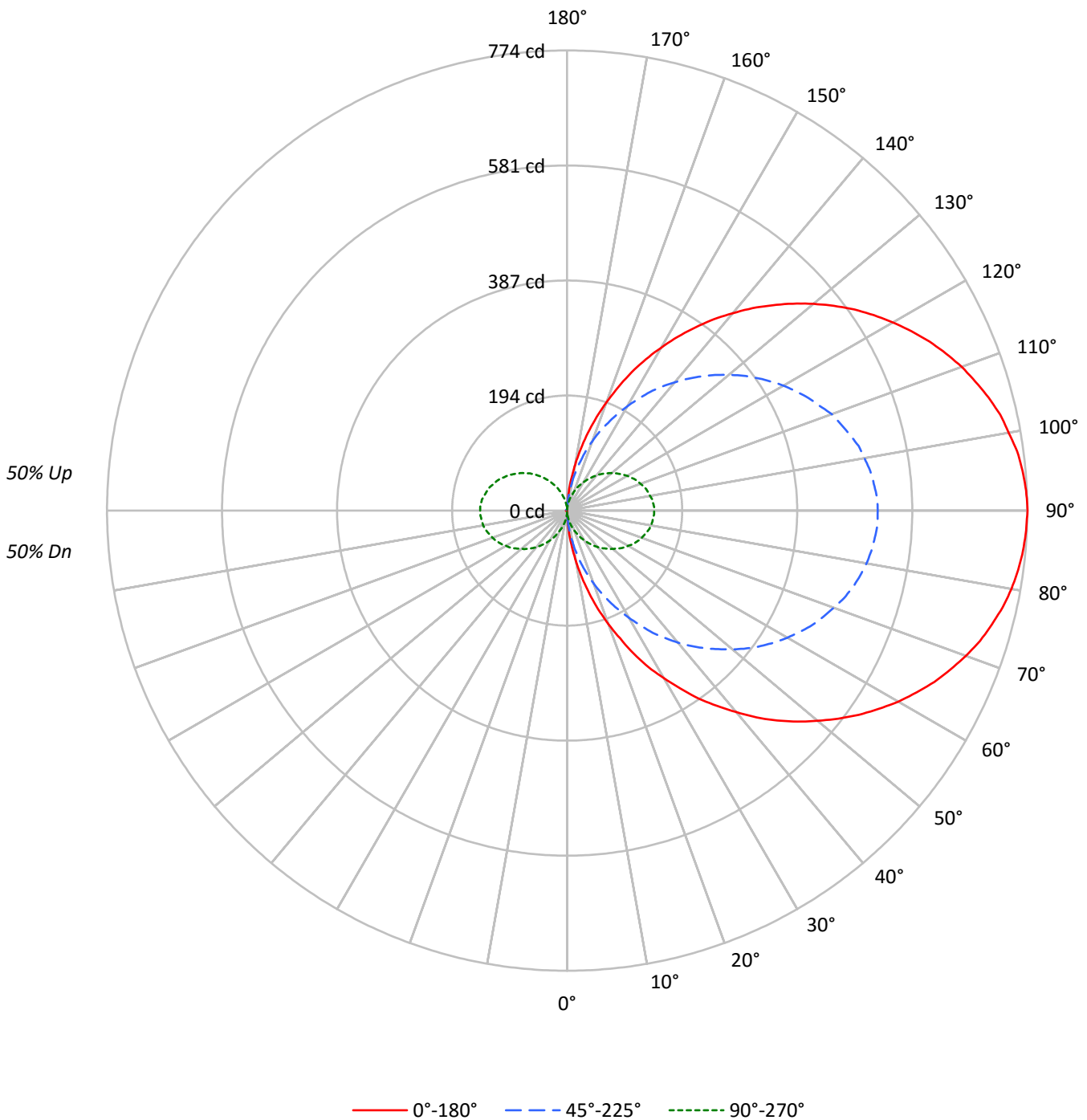
Lumens per Lamp: N/A
Luminaire Lumens: 2424.7 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Spacing Criteria (0/90/45): 14.9 / 10.64 / 11.7
Luminous Opening: Rectangular w/ Sides (W: 0.71' x L: 0.21' x H: 3.58')
CIE Type: General Diffuse

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°	131	131	131
5°	1128	421	0
10°	1622	650	0
15°	1944	827	0
20°	2174	981	0
25°	2372	1124	0
30°	2509	1246	0
35°	2638	1353	0
40°	2730	1452	0
45°	2831	1534	0
50°	2904	1619	0
55°	2979	1707	0
60°	3046	1774	4
65°	3105	1848	4
70°	3155	1910	4
75°	3197	1969	8
80°	3235	2030	8
85°	3261	2067	8



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.8	0.1
10°-20°	14.1	0.6
20°-30°	40.7	1.7
30°-40°	80.2	3.3
40°-50°	128.3	5.3
50°-60°	179.6	7.4
60°-70°	227.1	9.4
70°-80°	264.2	10.9
80°-90°	284.5	11.7
90°-100°	283.7	11.7
100°-110°	262.0	10.8
110°-120°	224.1	9.2
120°-130°	176.5	7.3
130°-140°	125.7	5.2
140°-150°	78.1	3.2
150°-160°	39.3	1.6
160°-170°	13.3	0.5
170°-180°	1.5	0.1
0°-30°	56.6	2.3
0°-40°	136.8	5.6
0°-60°	444.7	18.3
0°-90°	1220.5	50.3
90°-120°	769.8	31.7
90°-150°	1150.1	47.4
90°-180°	1204.0	49.7
0°-180°	2424.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2	2	2	2	2	
5°	39	25	8	2	0	5
15°	144	93	26	2	0	43
25°	266	169	47	2	0	124
35°	386	251	69	1	0	243
45°	500	328	90	1	0	387
55°	599	397	110	2	0	537
65°	682	455	127	2	1	676
75°	740	498	139	2	2	782
85°	770	520	145	2	2	627
90°	774	522	146	2	2	424
95°	769	518	145	2	2	625
105°	734	492	138	2	2	775
115°	672	448	125	2	1	667
125°	590	389	108	2	0	529
135°	488	319	88	2	0	379
145°	376	244	66	2	0	238
155°	257	163	45	2	0	120
165°	135	86	24	2	0	40
175°	31	19	6	2	0	4
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°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
2.5°	16.6	13.8	14.7	13.8	12.0	10.1	8.3	7.4	5.5	4.6	4.6
5°	38.6	36.8	35.9	33.1	29.4	24.8	20.2	16.6	12.9	9.2	8.3
7.5°	61.6	59.8	58.0	54.3	46.9	39.6	32.2	25.8	20.2	14.7	12.0
10°	88.3	85.5	82.8	76.4	67.2	56.1	45.1	35.9	27.6	20.2	16.6
12.5°	115.0	113.1	108.5	100.3	87.4	74.5	58.9	46.0	35.9	25.8	21.2
15°	144.4	141.7	136.1	125.1	109.5	92.9	73.6	58.0	45.1	32.2	25.8
17.5°	173.9	171.1	163.7	150.9	131.5	111.3	89.2	69.9	54.3	38.6	31.3
20°	203.3	200.5	192.3	176.6	154.5	130.6	103.9	81.9	63.5	45.1	35.9
22.5°	232.7	230.0	219.9	202.4	176.6	149.9	119.6	93.8	72.7	51.5	41.4
25°	265.8	262.2	251.1	228.1	201.5	169.3	135.2	105.8	82.8	58.9	46.9
27.5°	297.1	292.5	278.7	256.6	224.5	188.6	150.9	117.7	92.0	65.3	52.4
30°	325.6	322.0	309.1	281.5	250.2	208.8	167.4	130.6	102.1	72.7	58.0
32.5°	355.1	352.3	335.8	308.2	273.2	228.1	183.1	143.5	112.2	79.1	63.5
35°	386.4	382.7	364.3	333.9	296.2	251.1	198.7	155.5	121.4	86.5	69.0
37.5°	413.9	410.3	390.0	359.7	319.2	269.5	214.3	168.3	131.5	92.9	74.5
40°	442.5	439.7	419.5	384.5	342.2	289.8	230.0	180.3	140.7	100.3	80.0
42.5°	471.9	467.3	444.3	409.3	364.3	309.1	247.4	192.3	149.9	106.7	85.5
45°	499.5	494.0	471.0	434.2	385.4	327.5	263.1	204.2	160.1	113.1	90.1
47.5°	525.3	520.7	494.9	457.2	406.6	345.0	276.9	216.2	168.3	119.6	95.7
50°	550.1	546.4	519.7	480.2	426.8	363.4	292.5	227.2	177.5	126.0	100.3
52.5°	574.9	570.3	542.7	502.3	448.0	380.8	305.4	239.2	185.8	132.5	104.9
55°	598.8	594.2	565.7	523.4	466.4	397.4	319.2	251.1	194.1	138.0	110.4
57.5°	620.9	616.3	587.8	543.7	484.8	413.0	332.1	261.2	202.4	144.4	115.0
60°	643.0	637.5	608.0	563.0	503.2	427.7	345.0	270.4	209.7	149.0	118.7
62.5°	662.3	656.8	626.4	580.4	518.8	441.5	356.0	279.6	217.1	154.5	123.3
65°	681.6	676.1	644.8	597.9	534.5	455.3	366.1	288.8	223.5	159.1	126.9
67.5°	698.2	692.7	661.4	613.6	548.3	466.4	376.2	296.2	230.0	163.7	130.6
70°	713.8	707.4	677.0	628.3	561.1	477.4	385.4	303.6	236.4	167.4	133.4
72.5°	728.5	722.1	689.9	641.2	574.0	488.5	394.6	310.0	241.9	171.1	136.1
75°	739.6	733.1	701.9	652.2	584.1	497.7	401.1	315.5	247.4	173.9	138.9
77.5°	750.6	743.3	712.0	662.3	592.4	505.0	407.5	321.0	251.1	176.6	141.7
80°	758.9	752.5	720.3	670.6	599.8	511.5	413.0	324.7	254.8	179.4	143.5
82.5°	765.3	758.9	726.7	676.1	605.3	516.1	416.7	328.4	256.6	181.2	144.4
85°	769.9	763.5	732.2	680.7	609.9	519.7	419.5	330.2	259.4	182.1	145.3
87.5°	772.7	766.3	734.1	683.5	611.7	522.5	421.3	331.2	260.3	183.1	146.3
89°	773.6	767.2	735.0	683.5	612.6	522.5	422.2	332.1	260.3	183.1	146.3
90°	774.5	768.1	735.9	684.4	612.6	522.5	421.3	332.1	260.3	183.1	146.3
92.5°	772.7	766.3	734.1	682.6	610.8	521.6	420.4	332.1	259.4	183.1	146.3
95°	769.0	761.7	730.4	678.9	607.1	517.9	418.5	329.3	258.5	182.1	145.3
97.5°	763.5	756.1	724.9	673.4	602.5	514.2	414.9	327.5	256.6	180.3	144.4
100°	754.3	748.8	716.6	666.0	595.2	507.8	409.3	322.9	253.0	177.5	141.7
102.5°	746.0	738.7	707.4	657.7	587.8	502.3	404.7	319.2	249.3	175.7	139.8
105°	734.1	727.6	696.4	646.7	577.7	492.1	397.4	313.7	245.6	172.0	138.0
107.5°	720.3	714.8	683.5	634.7	567.6	482.9	390.0	307.2	240.1	169.3	135.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	706.5	701.0	669.7	621.8	554.7	473.7	381.8	300.8	233.7	165.6	131.5
112.5°	689.9	684.4	655.0	606.2	540.9	459.9	371.6	292.5	227.2	161.0	128.8
115°	672.4	666.9	637.5	590.6	527.1	448.0	361.5	284.2	220.8	156.4	125.1
117.5°	653.1	648.5	620.0	573.1	511.5	434.2	350.5	276.0	213.4	151.8	120.5
120°	632.9	628.3	599.8	554.7	494.0	420.4	338.5	266.8	207.0	146.3	116.8
122.5°	611.7	606.2	579.5	535.4	476.5	404.7	326.6	256.6	198.7	140.7	112.2
125°	589.6	585.0	558.4	515.1	459.0	389.1	313.7	246.5	191.3	135.2	107.6
127.5°	565.7	561.1	535.4	494.0	439.7	372.6	299.9	234.6	183.1	128.8	103.0
130°	540.9	537.2	512.4	471.9	418.5	355.1	286.1	222.6	173.9	123.3	98.4
132.5°	515.1	511.5	487.5	448.9	399.2	337.6	271.4	211.6	165.6	116.8	92.9
135°	488.5	484.8	462.7	425.0	376.2	319.2	256.6	199.6	156.4	110.4	88.3
137.5°	461.8	459.0	436.9	401.1	355.1	300.8	241.9	187.7	147.2	103.9	82.8
140°	433.3	430.5	410.3	376.2	333.0	281.5	224.5	175.7	137.1	96.6	77.3
142.5°	405.7	402.0	382.7	351.4	310.9	263.1	208.8	163.7	126.9	90.1	71.8
145°	376.2	374.4	356.0	327.5	287.9	243.8	193.2	150.9	117.7	83.7	66.2
147.5°	346.8	345.0	327.5	301.7	264.9	222.6	176.6	138.9	108.5	76.4	60.7
150°	316.4	315.5	299.9	275.0	241.9	202.4	161.0	126.0	98.4	69.9	55.2
152.5°	287.0	285.2	270.4	248.4	217.1	183.1	146.3	114.1	89.2	62.6	49.7
155°	256.6	255.7	242.8	220.8	193.2	162.8	129.7	102.1	79.1	56.1	45.1
157.5°	224.5	223.5	211.6	194.1	170.2	144.4	114.1	90.1	69.9	49.7	39.6
160°	194.1	193.2	183.1	168.3	148.1	124.2	98.4	78.2	60.7	42.3	34.0
162.5°	164.7	163.7	154.5	142.6	125.1	104.9	83.7	66.2	51.5	35.9	28.5
165°	135.2	134.3	126.9	115.9	102.1	85.5	69.0	54.3	42.3	29.4	23.9
167.5°	106.7	106.7	101.2	93.8	80.9	68.1	54.3	43.2	33.1	23.9	19.3
170°	80.0	80.0	75.4	69.0	60.7	50.6	41.4	32.2	25.8	18.4	14.7
172.5°	54.3	54.3	50.6	46.0	41.4	35.0	28.5	23.0	17.5	12.9	10.1
175°	31.3	31.3	28.5	26.7	23.0	19.3	16.6	13.8	10.1	7.4	6.4
177.5°	10.1	10.1	9.2	8.3	8.3	6.4	5.5	4.6	3.7	3.7	3.7
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°	3.7	3.7	2.8	2.8	1.8	1.8	0.9	0.9	0.0	0.0
5°	6.4	3.7	3.7	2.8	1.8	1.8	0.9	0.9	0.0	0.0
7.5°	9.2	5.5	3.7	2.8	1.8	1.8	0.9	0.9	0.0	0.0
10°	12.9	7.4	3.7	2.8	1.8	1.8	0.9	0.9	0.0	0.0
12.5°	16.6	9.2	4.6	2.8	1.8	1.8	0.9	0.9	0.0	0.0
15°	20.2	11.0	5.5	2.8	1.8	0.9	0.9	0.9	0.0	0.0
17.5°	23.9	12.9	5.5	2.8	1.8	0.9	0.9	0.0	0.0	0.0
20°	27.6	14.7	6.4	2.8	1.8	0.9	0.9	0.0	0.0	0.0
22.5°	31.3	16.6	7.4	2.8	1.8	0.9	0.9	0.0	0.0	0.0
25°	35.9	18.4	8.3	2.8	1.8	0.9	0.9	0.0	0.0	0.0
27.5°	39.6	20.2	8.3	2.8	1.8	0.9	0.9	0.0	0.0	0.0
30°	44.2	22.1	9.2	2.8	0.9	0.9	0.9	0.0	0.0	0.0
32.5°	47.8	23.9	10.1	2.8	0.9	0.9	0.9	0.0	0.0	0.0
35°	52.4	26.7	11.0	3.7	0.9	0.9	0.9	0.0	0.0	0.0
37.5°	56.1	28.5	12.0	3.7	0.9	0.9	0.9	0.0	0.0	0.0
40°	60.7	30.4	12.9	3.7	0.9	0.9	0.9	0.0	0.0	0.0
42.5°	64.4	32.2	12.9	3.7	0.9	0.9	0.9	0.0	0.0	0.0
45°	69.0	34.0	13.8	4.6	0.9	0.9	0.9	0.0	0.0	0.0
47.5°	72.7	36.8	14.7	4.6	1.8	0.9	0.9	0.0	0.0	0.0
50°	76.4	37.7	15.6	4.6	1.8	0.9	0.9	0.9	0.0	0.0
52.5°	80.0	39.6	16.6	4.6	1.8	0.9	0.9	0.9	0.0	0.0
55°	83.7	41.4	17.5	5.5	1.8	0.9	0.9	0.9	0.0	0.0
57.5°	86.5	43.2	17.5	5.5	1.8	0.9	0.9	0.9	0.9	0.9
60°	90.1	45.1	18.4	5.5	1.8	0.9	0.9	0.9	0.9	0.9
62.5°	92.9	46.9	19.3	5.5	1.8	0.9	0.9	0.9	0.9	0.9
65°	95.7	47.8	19.3	6.4	1.8	1.8	0.9	0.9	0.9	0.9
67.5°	98.4	49.7	20.2	6.4	1.8	1.8	0.9	0.9	0.9	0.9
70°	101.2	50.6	20.2	6.4	1.8	1.8	0.9	0.9	0.9	0.9
72.5°	103.0	51.5	21.2	6.4	1.8	1.8	1.8	1.8	1.8	1.8
75°	104.9	52.4	21.2	7.4	1.8	1.8	1.8	1.8	1.8	1.8
77.5°	106.7	53.4	22.1	7.4	1.8	1.8	1.8	1.8	1.8	1.8
80°	108.5	54.3	22.1	7.4	1.8	1.8	1.8	1.8	1.8	1.8
82.5°	109.5	55.2	22.1	7.4	1.8	1.8	1.8	1.8	1.8	1.8
85°	110.4	55.2	23.0	7.4	1.8	1.8	1.8	1.8	1.8	1.8
87.5°	110.4	56.1	23.0	7.4	1.8	1.8	1.8	1.8	1.8	1.8
89°	110.4	56.1	23.0	7.4	1.8	1.8	1.8	1.8	1.8	1.8
90°	110.4	55.2	23.0	7.4	1.8	1.8	1.8	1.8	1.8	1.8
92.5°	110.4	55.2	23.0	7.4	1.8	1.8	1.8	1.8	1.8	1.8
95°	109.5	55.2	22.1	7.4	1.8	1.8	1.8	1.8	1.8	1.8
97.5°	108.5	55.2	22.1	7.4	1.8	1.8	1.8	1.8	1.8	1.8
100°	107.6	54.3	22.1	7.4	1.8	1.8	1.8	1.8	1.8	1.8
102.5°	105.8	53.4	22.1	7.4	1.8	1.8	1.8	1.8	1.8	1.8
105°	103.9	52.4	21.2	6.4	1.8	1.8	1.8	1.8	1.8	1.8
107.5°	102.1	50.6	21.2	6.4	1.8	1.8	1.8	1.8	0.9	0.9



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	99.3	49.7	20.2	6.4	1.8	1.8	0.9	0.9	0.9	0.9
112.5°	96.6	48.8	19.3	6.4	1.8	1.8	0.9	0.9	0.9	0.9
115°	93.8	46.9	19.3	6.4	1.8	1.8	0.9	0.9	0.9	0.9
117.5°	91.1	45.1	18.4	5.5	1.8	1.8	0.9	0.9	0.9	0.9
120°	88.3	44.2	17.5	5.5	1.8	0.9	0.9	0.9	0.9	0.9
122.5°	84.6	42.3	17.5	5.5	1.8	0.9	0.9	0.9	0.9	0.9
125°	80.9	40.5	16.6	5.5	1.8	0.9	0.9	0.9	0.0	0.0
127.5°	77.3	38.6	15.6	4.6	1.8	0.9	0.9	0.9	0.0	0.0
130°	73.6	36.8	15.6	4.6	1.8	0.9	0.9	0.9	0.0	0.0
132.5°	69.9	35.0	14.7	4.6	1.8	0.9	0.9	0.9	0.0	0.0
135°	66.2	33.1	13.8	4.6	1.8	0.9	0.9	0.9	0.0	0.0
137.5°	62.6	31.3	12.9	3.7	1.8	0.9	0.9	0.9	0.0	0.0
140°	58.0	29.4	12.0	3.7	1.8	0.9	0.9	0.0	0.0	0.0
142.5°	54.3	27.6	11.0	3.7	1.8	0.9	0.9	0.0	0.0	0.0
145°	50.6	24.8	10.1	3.7	1.8	0.9	0.9	0.0	0.0	0.0
147.5°	46.0	23.0	9.2	2.8	1.8	0.9	0.9	0.0	0.0	0.0
150°	41.4	21.2	9.2	2.8	1.8	0.9	0.9	0.0	0.0	0.0
152.5°	37.7	19.3	8.3	2.8	1.8	0.9	0.9	0.0	0.0	0.0
155°	34.0	17.5	7.4	2.8	1.8	0.9	0.9	0.0	0.0	0.0
157.5°	29.4	15.6	6.4	2.8	1.8	0.9	0.9	0.0	0.0	0.0
160°	25.8	13.8	5.5	2.8	1.8	0.9	0.9	0.9	0.0	0.0
162.5°	22.1	12.0	5.5	2.8	1.8	0.9	0.9	0.0	0.0	0.0
165°	18.4	10.1	4.6	2.8	1.8	0.9	0.9	0.9	0.0	0.0
167.5°	14.7	8.3	3.7	2.8	1.8	1.8	0.9	0.9	0.0	0.0
170°	11.0	6.4	3.7	2.8	1.8	1.8	0.9	0.9	0.0	0.0
172.5°	8.3	4.6	3.7	2.8	1.8	1.8	0.9	0.9	0.0	0.0
175°	4.6	3.7	2.8	2.8	1.8	1.8	0.9	0.9	0.0	0.0
177.5°	3.7	3.7	2.8	2.8	1.8	1.8	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)