

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: P368743

Luminaire Tested: **674-W-55-L5/827**

Issue Date: 11/13/2019

Test Information

Test Method: LM-79-08
Report Number: P368743
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1804-721-15)
Test Lab: INNOVATIONS CENTER
Issue Date: 11/13/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 674-W-55-L5/827
Description: 55" 674 SERIES LUMINOUS WALL SCONCE
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

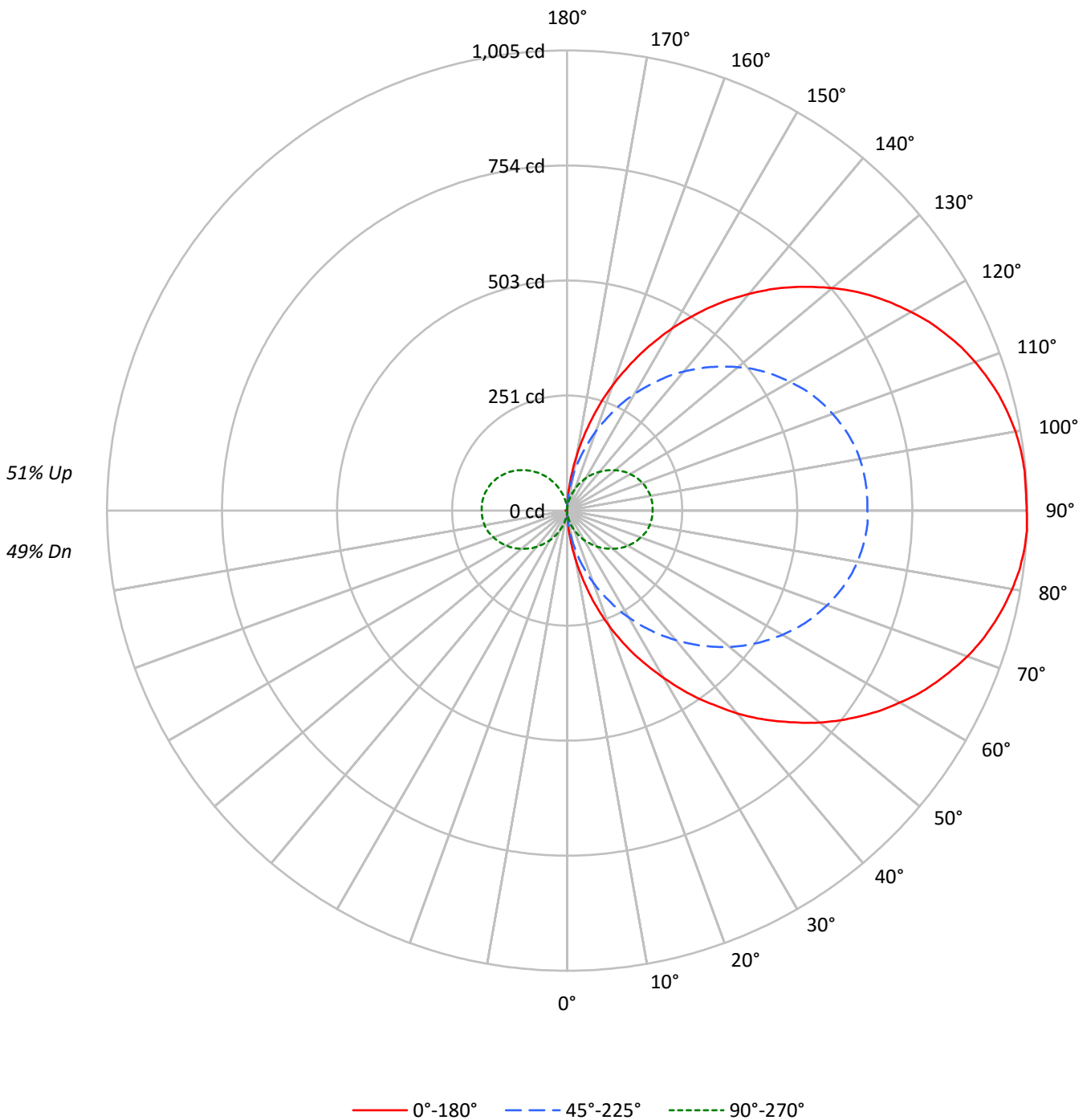
Lumens per Lamp: N/A
Luminaire Lumens: 3191.4 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 14.03 / 9.93 / 10.89
Luminous Opening: Rectangular w/ Sides (W: 0.71' x L: 0.21' x H: 4.58')
CIE Type: General Diffuse

Input Watts (W): 42.7
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	83	83	83	69	69	69	55	55	55	49
1	92	85	79	73	84	78	72	67	64	60	56	51	48	45	40	37	35	29
2	81	71	62	55	74	65	57	51	53	47	42	42	37	33	32	28	25	20
3	73	60	51	43	66	55	46	40	45	38	33	35	30	26	26	22	19	14
4	66	52	42	35	59	47	39	32	38	32	26	30	25	20	22	18	15	11
5	60	46	36	29	54	42	33	26	34	27	21	26	21	17	19	15	12	8
6	55	40	31	24	49	37	28	22	30	23	18	23	18	14	17	13	10	7
7	50	36	27	21	45	33	25	19	27	20	15	21	16	12	15	11	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°	204	204	204
5°	1174	388	0
10°	1690	668	0
15°	2056	889	0
20°	2307	1064	0
25°	2479	1198	0
30°	2595	1325	0
35°	2721	1422	0
40°	2831	1525	0
45°	2917	1613	0
50°	3003	1690	0
55°	3071	1771	4
60°	3130	1825	3
65°	3183	1889	6
70°	3231	1943	6
75°	3266	2000	6
80°	3296	2040	6
85°	3321	2074	9



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.1	0.1
10°-20°	18.1	0.6
20°-30°	52.8	1.7
30°-40°	103.7	3.2
40°-50°	166.1	5.2
50°-60°	232.3	7.3
60°-70°	292.4	9.2
70°-80°	338.8	10.6
80°-90°	364.0	11.4
90°-100°	364.8	11.4
100°-110°	344.0	10.8
110°-120°	300.9	9.4
120°-130°	242.4	7.6
130°-140°	176.4	5.5
140°-150°	112.2	3.5
150°-160°	57.9	1.8
160°-170°	20.1	0.6
170°-180°	2.4	0.1
0°-30°	73.1	2.3
0°-40°	176.8	5.5
0°-60°	575.2	18.0
0°-90°	1570.3	49.2
90°-120°	1009.7	31.6
90°-150°	1540.7	48.3
90°-180°	1621.0	50.8
0°-180°	3191.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3	3	3	3	3	
5°	47	28	8	3	0	6
15°	188	119	32	2	0	56
25°	347	218	60	2	0	162
35°	501	320	88	2	0	316
45°	650	418	117	2	0	505
55°	783	505	143	3	1	702
65°	889	577	163	3	2	881
75°	963	627	178	3	2	1018
85°	1002	654	186	4	3	815
90°	1004	656	187	4	3	550
95°	1003	655	187	4	3	817
105°	976	637	180	4	3	1031
115°	912	593	168	3	2	905
125°	816	528	149	2	1	732
135°	690	443	124	2	1	535
145°	541	346	97	2	0	341
155°	376	239	66	2	0	176
165°	205	132	37	2	0	61
175°	52	34	9	3	0	7
180°	3	3	3	3	3	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
2.5°	16.6	14.7	13.8	12.9	11.0	9.2	8.3	6.4	5.5	4.6	4.6
5°	46.9	45.1	43.2	40.5	34.0	28.5	23.0	18.4	13.8	9.2	8.3
7.5°	78.2	76.4	72.7	67.2	58.9	48.8	38.6	30.4	23.9	16.6	12.9
10°	111.3	109.5	105.8	97.5	84.6	70.8	56.1	44.2	34.0	23.9	19.3
12.5°	148.1	146.3	139.8	128.8	112.2	93.8	74.5	58.0	46.0	31.3	25.8
15°	187.7	184.9	177.5	162.8	141.7	118.7	93.8	72.7	57.0	40.5	32.2
17.5°	227.2	226.3	212.5	195.9	171.1	143.5	113.1	88.3	69.0	48.8	38.6
20°	267.7	265.8	252.0	232.7	201.5	168.3	132.5	103.9	80.9	57.0	46.0
22.5°	306.3	305.4	288.8	264.9	233.7	193.2	153.6	119.6	92.9	66.2	52.4
25°	346.8	343.1	326.6	299.0	263.1	218.0	172.9	135.2	104.9	74.5	59.8
27.5°	382.7	381.8	363.4	333.0	292.5	245.6	192.3	149.9	117.7	83.7	67.2
30°	422.2	419.5	400.2	366.1	322.0	269.5	211.6	165.6	129.7	92.9	74.5
32.5°	461.8	459.9	437.9	400.2	353.2	295.3	233.7	181.2	142.6	101.2	80.9
35°	501.3	499.5	475.6	435.1	382.7	320.1	253.9	196.9	154.5	110.4	88.3
37.5°	538.1	535.4	509.6	468.2	411.2	345.0	274.1	211.6	166.5	119.6	95.7
40°	578.6	574.0	547.3	501.3	440.6	368.9	294.4	228.1	179.4	128.8	103.0
42.5°	615.4	610.8	581.4	533.5	469.1	393.7	314.6	243.8	191.3	137.1	110.4
45°	650.4	647.6	615.4	564.8	497.7	417.6	333.9	259.4	202.4	145.3	116.8
47.5°	685.3	681.6	648.5	595.2	524.3	440.6	352.3	274.1	214.3	154.5	123.3
50°	720.3	715.7	681.6	625.5	551.0	463.6	369.8	288.8	225.4	161.9	129.7
52.5°	752.5	748.8	712.9	654.0	576.8	484.8	388.2	302.6	238.3	170.2	136.1
55°	782.8	778.2	741.4	680.7	599.8	505.0	404.7	316.4	249.3	177.5	142.6
57.5°	812.3	807.7	769.9	706.5	623.7	524.3	419.5	328.4	259.4	184.9	148.1
60°	838.9	835.3	795.7	731.3	644.8	542.7	434.2	340.4	267.7	191.3	152.7
62.5°	865.6	860.1	819.6	753.4	664.2	560.2	448.0	351.4	276.0	196.9	158.2
65°	888.6	883.1	841.7	774.5	682.6	576.8	460.9	361.5	285.2	202.4	162.8
67.5°	909.8	904.2	862.9	793.9	699.1	590.6	472.8	370.7	291.6	208.8	167.4
70°	930.9	925.4	882.2	811.3	715.7	604.4	483.9	379.0	299.0	213.4	171.1
72.5°	948.4	942.9	898.7	826.1	730.4	616.3	494.0	387.3	305.4	218.0	174.8
75°	963.1	957.6	913.4	839.9	742.3	627.4	503.2	393.7	310.9	221.7	178.5
77.5°	976.0	970.5	925.4	851.8	753.4	636.6	510.5	399.2	315.5	224.5	181.2
80°	987.0	982.4	936.4	861.0	761.7	643.9	517.0	404.7	319.2	229.1	183.1
82.5°	996.2	989.8	943.8	869.3	768.1	649.4	521.6	407.5	322.9	230.9	184.9
85°	1001.8	995.3	949.3	873.9	772.7	654.0	525.3	410.3	324.7	232.7	185.8
87.5°	1005.4	999.0	953.0	878.5	775.5	656.8	527.1	412.1	325.6	233.7	186.7
90°	1003.6	997.2	952.1	875.7	775.5	655.9	526.2	411.2	324.7	233.7	186.7
92.5°	1002.7	996.2	951.2	874.8	774.5	655.9	527.1	412.1	324.7	233.7	186.7
93°	1002.7	997.2	951.2	874.8	774.5	655.9	527.1	412.1	324.7	232.7	186.7
95°	1002.7	995.3	950.2	874.8	773.6	655.0	526.2	413.0	324.7	233.7	186.7
97.5°	999.9	993.5	948.4	872.1	771.8	653.1	525.3	411.2	323.8	231.8	185.8
100°	994.4	988.9	943.8	867.5	768.1	649.4	522.5	409.3	322.0	230.0	184.9
102.5°	986.1	980.6	936.4	861.0	761.7	643.9	517.0	405.7	320.1	228.1	183.1
105°	976.0	970.5	926.3	851.8	753.4	636.6	511.5	401.1	315.5	225.4	180.3
107.5°	963.1	957.6	913.4	839.9	743.3	627.4	505.0	394.6	310.9	221.7	178.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	948.4	942.9	899.6	827.0	731.3	617.2	495.8	388.2	305.4	218.9	175.7
112.5°	931.8	926.3	884.0	812.3	718.4	606.2	486.6	381.8	299.9	214.3	172.0
115°	912.5	907.0	865.6	794.8	702.8	593.3	476.5	372.6	292.5	209.7	168.3
117.5°	891.4	885.8	845.4	775.5	685.3	578.6	464.5	364.3	286.1	204.2	163.7
120°	867.5	862.9	821.5	754.3	666.0	562.1	451.7	354.2	277.8	198.7	159.1
122.5°	842.6	838.0	799.4	732.2	646.7	545.5	437.9	343.1	269.5	192.3	154.5
125°	815.9	811.3	772.7	708.3	626.4	528.0	423.1	331.2	260.3	184.9	149.0
127.5°	787.4	781.9	744.2	684.4	603.4	508.7	407.5	319.2	251.1	178.5	143.5
130°	756.1	751.5	715.7	655.9	579.5	487.5	391.0	306.3	238.3	172.0	137.1
132.5°	723.0	718.4	684.4	628.3	552.9	465.5	373.5	291.6	227.2	163.7	130.6
135°	689.9	685.3	653.1	599.8	528.0	443.4	355.1	277.8	216.2	155.5	124.2
137.5°	655.0	650.4	620.0	569.4	501.3	420.4	336.7	263.1	205.1	146.3	117.7
140°	617.2	613.6	584.1	536.3	472.8	396.5	316.4	246.5	192.3	138.0	110.4
142.5°	580.4	575.8	547.3	504.1	443.4	372.6	298.0	230.0	179.4	129.7	103.9
145°	540.9	537.2	511.5	469.1	413.9	345.9	276.9	214.3	167.4	120.5	96.6
147.5°	500.4	497.7	474.7	435.1	382.7	320.1	255.7	197.8	154.5	111.3	89.2
150°	459.9	457.2	436.9	399.2	352.3	294.4	232.7	181.2	141.7	101.2	81.9
152.5°	417.6	415.8	396.5	364.3	320.1	267.7	211.6	164.7	128.8	92.0	73.6
155°	376.2	374.4	356.9	327.5	288.8	239.2	191.3	149.0	115.0	82.8	66.2
157.5°	333.0	332.1	316.4	291.6	256.6	211.6	169.3	131.5	102.1	72.7	58.9
160°	291.6	289.8	276.9	253.0	222.6	184.9	148.1	115.0	88.3	63.5	50.6
162.5°	249.3	247.4	233.7	216.2	189.5	157.3	126.0	98.4	76.4	55.2	43.2
165°	205.1	203.3	194.1	180.3	158.2	131.5	104.9	81.9	62.6	45.1	36.8
167.5°	163.7	162.8	155.5	144.4	126.0	105.8	84.6	65.3	49.7	36.8	28.5
170°	124.2	123.3	117.7	109.5	96.6	80.9	64.4	49.7	38.6	27.6	22.1
172.5°	86.5	84.6	81.9	76.4	67.2	57.0	45.1	35.9	26.7	20.2	16.6
175°	52.4	51.5	47.8	46.0	40.5	34.0	27.6	22.1	16.6	12.0	9.2
177.5°	20.2	19.3	18.4	18.4	15.6	12.9	11.0	8.3	6.4	4.6	4.6
180°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
2.5°	4.6	3.7	3.7	2.8	2.8	1.8	0.9	0.9	0.0	0.0
5°	6.4	5.5	3.7	2.8	2.8	1.8	0.9	0.9	0.0	0.0
7.5°	10.1	6.4	4.6	3.7	2.8	1.8	0.9	0.9	0.0	0.0
10°	14.7	8.3	5.5	3.7	2.8	1.8	0.9	0.9	0.0	0.0
12.5°	20.2	10.1	5.5	3.7	2.8	1.8	0.9	0.9	0.0	0.0
15°	24.8	12.9	6.4	3.7	1.8	1.8	0.9	0.9	0.0	0.0
17.5°	29.4	15.6	7.4	3.7	1.8	1.8	0.9	0.9	0.0	0.0
20°	35.0	18.4	8.3	3.7	1.8	1.8	0.9	0.9	0.0	0.0
22.5°	40.5	21.2	9.2	4.6	1.8	1.8	0.9	0.9	0.0	0.0
25°	46.0	23.9	10.1	4.6	1.8	1.8	0.9	0.0	0.0	0.0
27.5°	51.5	26.7	12.0	4.6	1.8	1.8	0.9	0.9	0.0	0.0
30°	57.0	29.4	12.0	4.6	1.8	1.8	0.9	0.9	0.0	0.0
32.5°	62.6	32.2	13.8	5.5	1.8	1.8	0.9	0.9	0.0	0.0
35°	68.1	35.9	14.7	5.5	1.8	1.8	0.9	0.9	0.0	0.0
37.5°	73.6	37.7	15.6	5.5	1.8	1.8	0.9	0.9	0.0	0.0
40°	79.1	40.5	17.5	5.5	1.8	1.8	0.9	0.9	0.0	0.0
42.5°	84.6	44.2	18.4	6.4	1.8	1.8	0.9	0.9	0.0	0.0
45°	90.1	46.9	19.3	6.4	1.8	1.8	0.9	0.9	0.0	0.0
47.5°	95.7	48.8	21.2	6.4	2.8	1.8	0.9	0.9	0.0	0.0
50°	100.3	51.5	22.1	7.4	2.8	1.8	0.9	0.9	0.0	0.0
52.5°	104.9	54.3	23.0	7.4	2.8	1.8	0.9	0.9	0.9	0.9
55°	109.5	57.0	23.9	8.3	2.8	1.8	1.8	0.9	0.9	0.9
57.5°	114.1	58.9	24.8	8.3	2.8	1.8	1.8	0.9	0.9	0.9
60°	117.7	61.6	25.8	9.2	2.8	1.8	1.8	0.9	0.9	0.9
62.5°	121.4	63.5	26.7	9.2	2.8	1.8	1.8	0.9	0.9	0.9
65°	125.1	66.2	27.6	9.2	2.8	1.8	1.8	1.8	1.8	1.8
67.5°	127.9	68.1	28.5	10.1	2.8	1.8	1.8	1.8	1.8	1.8
70°	131.5	69.9	29.4	10.1	2.8	2.8	1.8	1.8	1.8	1.8
72.5°	134.3	70.8	30.4	10.1	2.8	2.8	1.8	1.8	1.8	1.8
75°	137.1	72.7	31.3	10.1	2.8	2.8	2.8	1.8	1.8	1.8
77.5°	138.9	73.6	31.3	11.0	2.8	2.8	2.8	2.8	2.8	1.8
80°	140.7	74.5	32.2	11.0	2.8	2.8	2.8	2.8	1.8	1.8
82.5°	142.6	74.5	32.2	11.0	3.7	2.8	2.8	2.8	2.8	2.8
85°	143.5	76.4	33.1	11.0	3.7	2.8	2.8	2.8	2.8	2.8
87.5°	144.4	76.4	33.1	11.0	3.7	2.8	2.8	2.8	2.8	2.8
90°	143.5	76.4	33.1	11.0	3.7	2.8	2.8	2.8	2.8	2.8
92.5°	144.4	76.4	33.1	11.0	3.7	2.8	2.8	2.8	2.8	2.8
93°	144.4	76.4	33.1	11.0	3.7	2.8	2.8	2.8	2.8	2.8
95°	144.4	76.4	33.1	11.0	3.7	2.8	2.8	2.8	2.8	2.8
97.5°	143.5	76.4	33.1	11.0	3.7	2.8	2.8	2.8	2.8	2.8
100°	142.6	75.4	33.1	11.0	3.7	2.8	2.8	2.8	2.8	2.8
102.5°	141.7	75.4	33.1	11.0	3.7	2.8	2.8	2.8	2.8	2.8
105°	139.8	74.5	32.2	11.0	3.7	2.8	1.8	2.8	1.8	2.8
107.5°	138.0	72.7	32.2	10.1	2.8	2.8	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°
110°	135.2	71.8	31.3	10.1	2.8	2.8	1.8	1.8	1.8	1.8
112.5°	133.4	69.9	30.4	10.1	2.8	1.8	1.8	1.8	1.8	1.8
115°	129.7	68.1	29.4	9.2	2.8	1.8	1.8	1.8	1.8	1.8
117.5°	126.9	67.2	29.4	9.2	2.8	1.8	1.8	1.8	1.8	1.8
120°	123.3	65.3	28.5	9.2	2.8	1.8	1.8	1.8	1.8	1.8
122.5°	118.7	63.5	27.6	8.3	2.8	1.8	1.8	0.9	0.9	0.9
125°	115.0	60.7	26.7	8.3	1.8	1.8	1.8	0.9	0.9	0.9
127.5°	110.4	58.9	25.8	8.3	1.8	1.8	1.8	0.9	0.9	0.9
130°	105.8	56.1	23.9	7.4	1.8	1.8	1.8	0.9	0.9	0.9
132.5°	101.2	53.4	23.0	7.4	1.8	1.8	0.9	0.9	0.9	0.9
135°	95.7	50.6	22.1	6.4	1.8	1.8	0.9	0.9	0.9	0.9
137.5°	91.1	47.8	21.2	6.4	1.8	1.8	0.9	0.9	0.0	0.0
140°	85.5	45.1	19.3	5.5	1.8	1.8	0.9	0.9	0.0	0.0
142.5°	80.0	42.3	18.4	5.5	1.8	1.8	0.9	0.9	0.0	0.0
145°	74.5	39.6	17.5	5.5	1.8	1.8	0.9	0.9	0.0	0.0
147.5°	69.0	35.9	15.6	4.6	1.8	1.8	0.9	0.9	0.0	0.0
150°	63.5	33.1	14.7	4.6	1.8	1.8	0.9	0.9	0.0	0.0
152.5°	58.0	29.4	13.8	3.7	1.8	1.8	0.9	0.9	0.0	0.0
155°	51.5	26.7	12.0	3.7	1.8	1.8	0.9	0.9	0.0	0.0
157.5°	46.0	23.9	10.1	3.7	1.8	1.8	0.9	0.9	0.0	0.0
160°	39.6	21.2	9.2	3.7	1.8	1.8	0.9	0.9	0.0	0.0
162.5°	34.0	18.4	8.3	2.8	1.8	1.8	0.9	0.9	0.0	0.0
165°	27.6	15.6	6.4	2.8	1.8	1.8	0.9	0.9	0.0	0.0
167.5°	23.0	12.9	5.5	2.8	2.8	1.8	0.9	0.9	0.0	0.0
170°	17.5	9.2	4.6	2.8	2.8	1.8	0.9	0.9	0.0	0.0
172.5°	12.9	7.4	4.6	2.8	2.8	1.8	0.9	0.9	0.0	0.0
175°	7.4	4.6	3.7	2.8	2.8	1.8	1.8	0.9	0.0	0.0
177.5°	4.6	3.7	3.7	3.7	2.8	1.8	1.8	0.9	0.0	0.0
180°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8

(END OF REPORT)