

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: P368740

Luminaire Tested: **674-W-43-L4/830**

Issue Date: 11/13/2019

Test Information

Test Method: LM-79-08
Report Number: P368740
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-L4/830
Description: 43" 674 SERIES LUMINOUS WALL SCONCE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

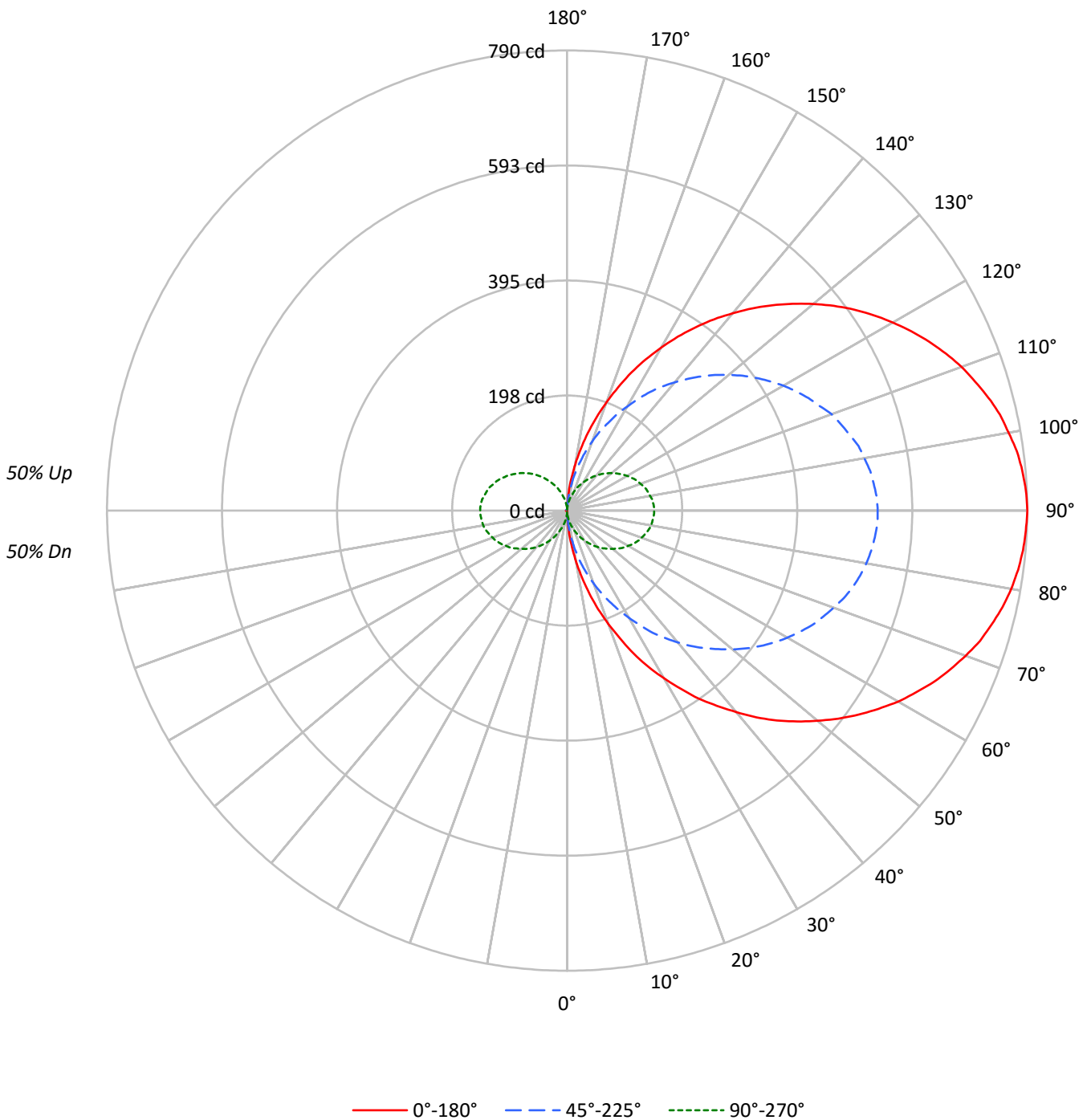
Lumens per Lamp: N/A
Luminaire Lumens: 2473.8 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Spacing Criteria (0/90/45): 14.73 / 10.52 / 11.56
Luminous Opening: Rectangular w/ Sides (W: 0.71' x L: 0.21' x H: 3.58')
CIE Type: General Diffuse

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



TEST NUMBER: P368740
CATALOG NUMBER: 674-W-43-L4/830

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°	1152	426	0
10°	1655	662	0
15°	1983	843	0
20°	2217	1000	0
25°	2420	1148	0
30°	2560	1270	0
35°	2691	1380	0
40°	2785	1483	0
45°	2888	1566	0
50°	2962	1652	0
55°	3039	1741	0
60°	3108	1810	4
65°	3168	1886	4
70°	3219	1948	4
75°	3262	2009	8
80°	3300	2071	8
85°	3327	2110	8



TEST NUMBER: P368740

CATALOG NUMBER: 674-W-43-L4/830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.8	0.1
10°-20°	14.4	0.6
20°-30°	41.6	1.7
30°-40°	81.8	3.3
40°-50°	130.9	5.3
50°-60°	183.2	7.4
60°-70°	231.7	9.4
70°-80°	269.6	10.9
80°-90°	290.3	11.7
90°-100°	289.5	11.7
100°-110°	267.3	10.8
110°-120°	228.6	9.2
120°-130°	180.1	7.3
130°-140°	128.2	5.2
140°-150°	79.7	3.2
150°-160°	40.1	1.6
160°-170°	13.5	0.5
170°-180°	1.6	0.1
0°-30°	57.7	2.3
0°-40°	139.5	5.6
0°-60°	453.6	18.3
0°-90°	1245.2	50.3
90°-120°	785.4	31.7
90°-150°	1173.4	47.4
90°-180°	1229.0	49.7
0°-180°	2473.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2	2	2	2	2	
5°	39	25	8	2	0	5
15°	147	95	26	2	0	44
25°	271	173	48	2	0	127
35°	394	256	70	1	0	248
45°	510	334	92	1	0	395
55°	611	405	113	2	0	548
65°	695	465	130	2	1	689
75°	755	508	142	2	2	798
85°	786	530	148	2	2	639
90°	790	533	149	2	2	433
95°	785	528	148	2	2	638
105°	749	502	141	2	2	791
115°	686	457	128	2	1	680
125°	602	397	110	2	0	539
135°	498	326	90	2	0	387
145°	384	249	68	2	0	242
155°	262	166	46	2	0	123
165°	138	87	24	2	0	41
175°	32	20	7	2	0	5
180°	2	2	2	2	2	



TEST NUMBER: P368740

CATALOG NUMBER: 674-W-43-L4/830

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°	16.9	14.1	15.0	14.1	12.2	10.3	8.4	7.5	5.6	4.7	4.7
5°	39.4	37.5	36.6	33.8	30.0	25.3	20.6	16.9	13.1	9.4	8.4
7.5°	62.9	61.0	59.1	55.4	47.9	40.4	32.8	26.3	20.6	15.0	12.2
10°	90.1	87.3	84.5	77.9	68.5	57.2	46.0	36.6	28.2	20.6	16.9
12.5°	117.3	115.4	110.7	102.3	89.2	76.0	60.1	46.9	36.6	26.3	21.6
15°	147.3	144.5	138.9	127.6	111.7	94.8	75.1	59.1	46.0	32.8	26.3
17.5°	177.4	174.6	167.1	153.9	134.2	113.6	91.0	71.3	55.4	39.4	31.9
20°	207.4	204.6	196.2	180.2	157.7	133.3	106.1	83.5	64.8	46.0	36.6
22.5°	237.4	234.6	224.3	206.5	180.2	153.0	122.0	95.7	74.1	52.6	42.2
25°	271.2	267.5	256.2	232.8	205.5	172.7	138.0	107.9	84.5	60.1	47.9
27.5°	303.1	298.4	284.4	261.8	229.0	192.4	153.9	120.1	93.9	66.6	53.5
30°	332.2	328.5	315.3	287.2	255.3	213.0	170.8	133.3	104.2	74.1	59.1
32.5°	362.3	359.5	342.6	314.4	278.7	232.8	186.8	146.4	114.5	80.7	64.8
35°	394.2	390.4	371.7	340.7	302.2	256.2	202.7	158.6	123.9	88.2	70.4
37.5°	422.3	418.6	397.9	367.0	325.7	275.0	218.7	171.7	134.2	94.8	76.0
40°	451.4	448.6	428.0	392.3	349.1	295.6	234.6	183.9	143.6	102.3	81.7
42.5°	481.5	476.8	453.3	417.6	371.7	315.3	252.5	196.2	153.0	108.9	87.3
45°	509.6	504.0	480.5	443.0	393.2	334.1	268.4	208.4	163.3	115.4	92.0
47.5°	535.9	531.2	504.9	466.4	414.8	351.9	282.5	220.6	171.7	122.0	97.6
50°	561.2	557.5	530.3	489.9	435.5	370.7	298.4	231.8	181.1	128.6	102.3
52.5°	586.6	581.9	553.7	512.4	457.1	388.5	311.6	244.0	189.6	135.1	107.0
55°	611.0	606.3	577.2	534.0	475.8	405.4	325.7	256.2	198.0	140.8	112.6
57.5°	633.5	628.8	599.7	554.7	494.6	421.4	338.8	266.5	206.5	147.3	117.3
60°	656.0	650.4	620.4	574.4	513.4	436.4	351.9	275.9	214.0	152.0	121.1
62.5°	675.7	670.1	639.1	592.2	529.3	450.5	363.2	285.3	221.5	157.7	125.8
65°	695.4	689.8	657.9	610.0	545.3	464.6	373.5	294.7	228.1	162.4	129.5
67.5°	712.3	706.7	674.8	626.0	559.4	475.8	383.9	302.2	234.6	167.1	133.3
70°	728.3	721.7	690.7	641.0	572.5	487.1	393.2	309.7	241.2	170.8	136.1
72.5°	743.3	736.7	703.9	654.1	585.6	498.4	402.6	316.3	246.8	174.6	138.9
75°	754.6	748.0	716.1	665.4	596.0	507.7	409.2	321.9	252.5	177.4	141.7
77.5°	765.8	758.3	726.4	675.7	604.4	515.2	415.8	327.5	256.2	180.2	144.5
80°	774.3	767.7	734.9	684.2	611.9	521.8	421.4	331.3	260.0	183.0	146.4
82.5°	780.8	774.3	741.4	689.8	617.5	526.5	425.1	335.1	261.8	184.9	147.3
85°	785.5	779.0	747.1	694.5	622.2	530.3	428.0	336.9	264.7	185.8	148.3
87.5°	788.4	781.8	748.9	697.3	624.1	533.1	429.8	337.9	265.6	186.8	149.2
89°	789.3	782.7	749.9	697.3	625.1	533.1	430.8	338.8	265.6	186.8	149.2
90°	790.2	783.7	750.8	698.3	625.1	533.1	429.8	338.8	265.6	186.8	149.2
92.5°	788.4	781.8	748.9	696.4	623.2	532.1	428.9	338.8	264.7	186.8	149.2
95°	784.6	777.1	745.2	692.6	619.4	528.4	427.0	336.0	263.7	185.8	148.3
97.5°	779.0	771.5	739.6	687.0	614.7	524.6	423.3	334.1	261.8	183.9	147.3
100°	769.6	764.0	731.1	679.5	607.2	518.1	417.6	329.4	258.1	181.1	144.5
102.5°	761.1	753.6	721.7	671.0	599.7	512.4	412.9	325.7	254.3	179.3	142.7
105°	748.9	742.4	710.5	659.8	589.4	502.1	405.4	320.0	250.6	175.5	140.8
107.5°	734.9	729.2	697.3	647.6	579.1	492.7	397.9	313.5	245.0	172.7	138.0



TEST NUMBER: P368740

CATALOG NUMBER: 674-W-43-L4/830

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	720.8	715.2	683.2	634.4	565.9	483.3	389.5	306.9	238.4	168.9	134.2
112.5°	703.9	698.3	668.2	618.5	551.8	469.3	379.2	298.4	231.8	164.2	131.4
115°	686.1	680.4	650.4	602.5	537.8	457.1	368.8	290.0	225.2	159.5	127.6
117.5°	666.3	661.7	632.6	584.7	521.8	443.0	357.6	281.6	217.7	154.9	122.9
120°	645.7	641.0	611.9	565.9	504.0	428.9	345.4	272.2	211.2	149.2	119.2
122.5°	624.1	618.5	591.3	546.2	486.2	412.9	333.2	261.8	202.7	143.6	114.5
125°	601.6	596.9	569.7	525.6	468.3	397.0	320.0	251.5	195.2	138.0	109.8
127.5°	577.2	572.5	546.2	504.0	448.6	380.1	306.0	239.3	186.8	131.4	105.1
130°	551.8	548.1	522.8	481.5	427.0	362.3	291.9	227.1	177.4	125.8	100.4
132.5°	525.6	521.8	497.4	458.0	407.3	344.4	276.9	215.9	168.9	119.2	94.8
135°	498.4	494.6	472.1	433.6	383.9	325.7	261.8	203.7	159.5	112.6	90.1
137.5°	471.1	468.3	445.8	409.2	362.3	306.9	246.8	191.5	150.2	106.1	84.5
140°	442.0	439.2	418.6	383.9	339.7	287.2	229.0	179.3	139.8	98.5	78.8
142.5°	413.9	410.1	390.4	358.5	317.2	268.4	213.0	167.1	129.5	92.0	73.2
145°	383.9	382.0	363.2	334.1	293.8	248.7	197.1	153.9	120.1	85.4	67.6
147.5°	353.8	351.9	334.1	307.8	270.3	227.1	180.2	141.7	110.7	77.9	61.9
150°	322.9	321.9	306.0	280.6	246.8	206.5	164.2	128.6	100.4	71.3	56.3
152.5°	292.8	290.9	275.9	253.4	221.5	186.8	149.2	116.4	91.0	63.8	50.7
155°	261.8	260.9	247.8	225.2	197.1	166.1	132.3	104.2	80.7	57.2	46.0
157.5°	229.0	228.1	215.9	198.0	173.6	147.3	116.4	92.0	71.3	50.7	40.4
160°	198.0	197.1	186.8	171.7	151.1	126.7	100.4	79.8	61.9	43.2	34.7
162.5°	168.0	167.1	157.7	145.5	127.6	107.0	85.4	67.6	52.6	36.6	29.1
165°	138.0	137.0	129.5	118.3	104.2	87.3	70.4	55.4	43.2	30.0	24.4
167.5°	108.9	108.9	103.2	95.7	82.6	69.5	55.4	44.1	33.8	24.4	19.7
170°	81.7	81.7	77.0	70.4	61.9	51.6	42.2	32.8	26.3	18.8	15.0
172.5°	55.4	55.4	51.6	46.9	42.2	35.7	29.1	23.5	17.8	13.1	10.3
175°	31.9	31.9	29.1	27.2	23.5	19.7	16.9	14.1	10.3	7.5	6.6
177.5°	10.3	10.3	9.4	8.4	8.4	6.6	5.6	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



TEST NUMBER: P368740

CATALOG NUMBER: 674-W-43-L4/830

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	5.6	3.8	2.8	1.9	1.9	0.9	0.9	0.0	0.0
10°	13.1	7.5	3.8	2.8	1.9	1.9	0.9	0.9	0.0	0.0
12.5°	16.9	9.4	4.7	2.8	1.9	1.9	0.9	0.9	0.0	0.0
15°	20.6	11.3	5.6	2.8	1.9	0.9	0.9	0.9	0.0	0.0
17.5°	24.4	13.1	5.6	2.8	1.9	0.9	0.9	0.0	0.0	0.0
20°	28.2	15.0	6.6	2.8	1.9	0.9	0.9	0.0	0.0	0.0
22.5°	31.9	16.9	7.5	2.8	1.9	0.9	0.9	0.0	0.0	0.0
25°	36.6	18.8	8.4	2.8	1.9	0.9	0.9	0.0	0.0	0.0
27.5°	40.4	20.6	8.4	2.8	1.9	0.9	0.9	0.0	0.0	0.0
30°	45.0	22.5	9.4	2.8	0.9	0.9	0.9	0.0	0.0	0.0
32.5°	48.8	24.4	10.3	2.8	0.9	0.9	0.9	0.0	0.0	0.0
35°	53.5	27.2	11.3	3.8	0.9	0.9	0.9	0.0	0.0	0.0
37.5°	57.2	29.1	12.2	3.8	0.9	0.9	0.9	0.0	0.0	0.0
40°	61.9	31.0	13.1	3.8	0.9	0.9	0.9	0.0	0.0	0.0
42.5°	65.7	32.8	13.1	3.8	0.9	0.9	0.9	0.0	0.0	0.0
45°	70.4	34.7	14.1	4.7	0.9	0.9	0.9	0.0	0.0	0.0
47.5°	74.1	37.5	15.0	4.7	1.9	0.9	0.9	0.0	0.0	0.0
50°	77.9	38.5	16.0	4.7	1.9	0.9	0.9	0.9	0.0	0.0
52.5°	81.7	40.4	16.9	4.7	1.9	0.9	0.9	0.9	0.0	0.0
55°	85.4	42.2	17.8	5.6	1.9	0.9	0.9	0.9	0.0	0.0
57.5°	88.2	44.1	17.8	5.6	1.9	0.9	0.9	0.9	0.9	0.9
60°	92.0	46.0	18.8	5.6	1.9	0.9	0.9	0.9	0.9	0.9
62.5°	94.8	47.9	19.7	5.6	1.9	0.9	0.9	0.9	0.9	0.9
65°	97.6	48.8	19.7	6.6	1.9	1.9	0.9	0.9	0.9	0.9
67.5°	100.4	50.7	20.6	6.6	1.9	1.9	0.9	0.9	0.9	0.9
70°	103.2	51.6	20.6	6.6	1.9	1.9	0.9	0.9	0.9	0.9
72.5°	105.1	52.6	21.6	6.6	1.9	1.9	1.9	1.9	1.9	1.9
75°	107.0	53.5	21.6	7.5	1.9	1.9	1.9	1.9	1.9	1.9
77.5°	108.9	54.4	22.5	7.5	1.9	1.9	1.9	1.9	1.9	1.9
80°	110.7	55.4	22.5	7.5	1.9	1.9	1.9	1.9	1.9	1.9
82.5°	111.7	56.3	22.5	7.5	1.9	1.9	1.9	1.9	1.9	1.9
85°	112.6	56.3	23.5	7.5	1.9	1.9	1.9	1.9	1.9	1.9
87.5°	112.6	57.2	23.5	7.5	1.9	1.9	1.9	1.9	1.9	1.9
89°	112.6	57.2	23.5	7.5	1.9	1.9	1.9	1.9	1.9	1.9
90°	112.6	56.3	23.5	7.5	1.9	1.9	1.9	1.9	1.9	1.9
92.5°	112.6	56.3	23.5	7.5	1.9	1.9	1.9	1.9	1.9	1.9
95°	111.7	56.3	22.5	7.5	1.9	1.9	1.9	1.9	1.9	1.9
97.5°	110.7	56.3	22.5	7.5	1.9	1.9	1.9	1.9	1.9	1.9
100°	109.8	55.4	22.5	7.5	1.9	1.9	1.9	1.9	1.9	1.9
102.5°	107.9	54.4	22.5	7.5	1.9	1.9	1.9	1.9	1.9	1.9
105°	106.1	53.5	21.6	6.6	1.9	1.9	1.9	1.9	1.9	1.9
107.5°	104.2	51.6	21.6	6.6	1.9	1.9	1.9	1.9	0.9	0.9



TEST NUMBER: P368740

CATALOG NUMBER: 674-W-43-L4/830

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	101.4	50.7	20.6	6.6	1.9	1.9	0.9	0.9	0.9	0.9
112.5°	98.5	49.7	19.7	6.6	1.9	1.9	0.9	0.9	0.9	0.9
115°	95.7	47.9	19.7	6.6	1.9	1.9	0.9	0.9	0.9	0.9
117.5°	92.9	46.0	18.8	5.6	1.9	1.9	0.9	0.9	0.9	0.9
120°	90.1	45.0	17.8	5.6	1.9	0.9	0.9	0.9	0.9	0.9
122.5°	86.3	43.2	17.8	5.6	1.9	0.9	0.9	0.9	0.9	0.9
125°	82.6	41.3	16.9	5.6	1.9	0.9	0.9	0.9	0.0	0.0
127.5°	78.8	39.4	16.0	4.7	1.9	0.9	0.9	0.9	0.0	0.0
130°	75.1	37.5	16.0	4.7	1.9	0.9	0.9	0.9	0.0	0.0
132.5°	71.3	35.7	15.0	4.7	1.9	0.9	0.9	0.9	0.0	0.0
135°	67.6	33.8	14.1	4.7	1.9	0.9	0.9	0.9	0.0	0.0
137.5°	63.8	31.9	13.1	3.8	1.9	0.9	0.9	0.9	0.0	0.0
140°	59.1	30.0	12.2	3.8	1.9	0.9	0.9	0.0	0.0	0.0
142.5°	55.4	28.2	11.3	3.8	1.9	0.9	0.9	0.0	0.0	0.0
145°	51.6	25.3	10.3	3.8	1.9	0.9	0.9	0.0	0.0	0.0
147.5°	46.9	23.5	9.4	2.8	1.9	0.9	0.9	0.0	0.0	0.0
150°	42.2	21.6	9.4	2.8	1.9	0.9	0.9	0.0	0.0	0.0
152.5°	38.5	19.7	8.4	2.8	1.9	0.9	0.9	0.0	0.0	0.0
155°	34.7	17.8	7.5	2.8	1.9	0.9	0.9	0.0	0.0	0.0
157.5°	30.0	16.0	6.6	2.8	1.9	0.9	0.9	0.0	0.0	0.0
160°	26.3	14.1	5.6	2.8	1.9	0.9	0.9	0.9	0.0	0.0
162.5°	22.5	12.2	5.6	2.8	1.9	0.9	0.9	0.0	0.0	0.0
165°	18.8	10.3	4.7	2.8	1.9	0.9	0.9	0.9	0.0	0.0
167.5°	15.0	8.4	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°	8.4	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)