

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: P368727

Luminaire Tested: **673-25-L3/827**

Issue Date: 11/13/2019

Test Information

Test Method: LM-79-08
Report Number: P368727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1804-721-4)
Test Lab: INNOVATIONS CENTER
Issue Date: 11/13/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 673-25-L3/827
Description: 25" 673 SERIES LUMINOUS WALL SCONCE
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

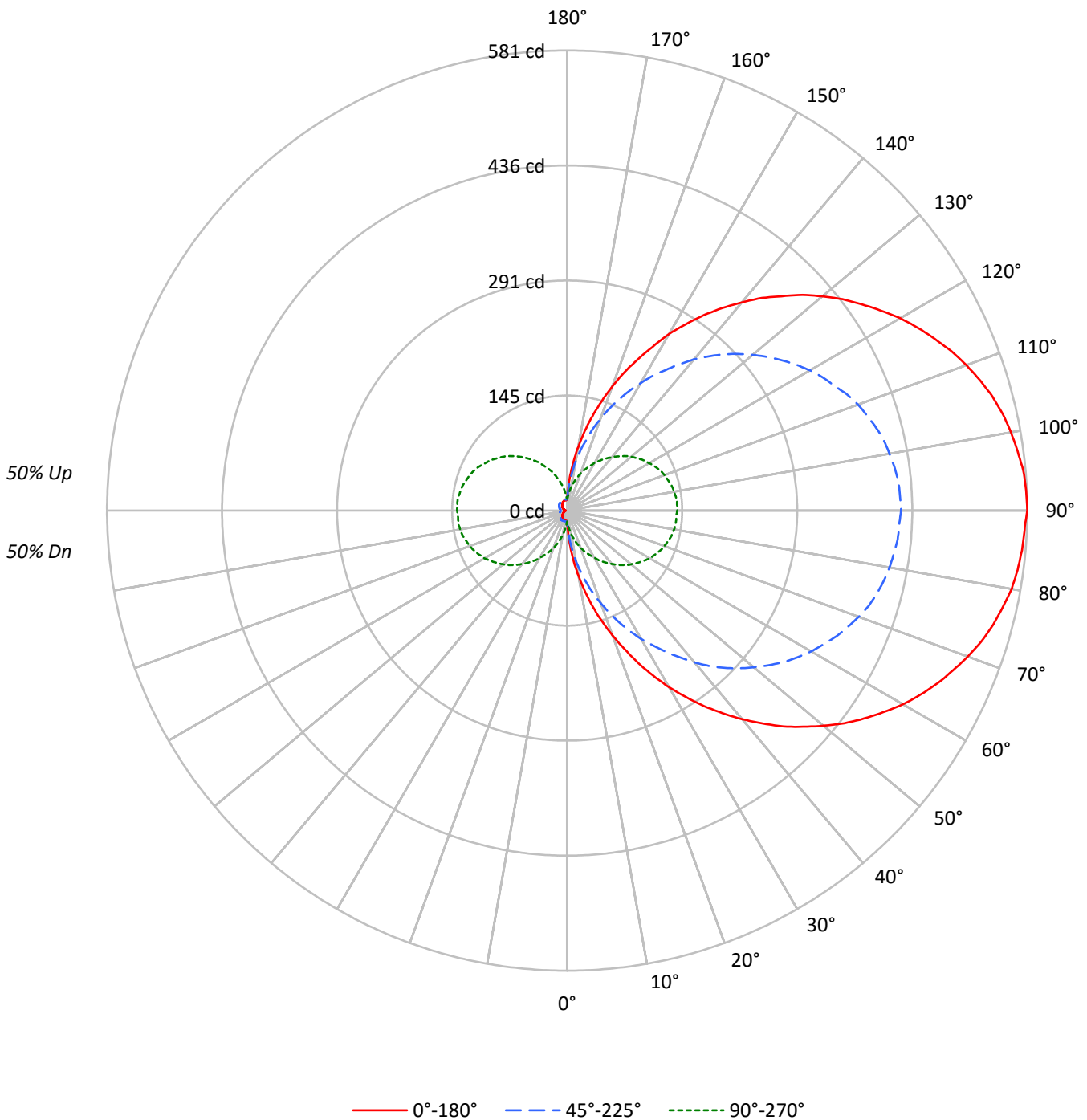
Lumens per Lamp: N/A
Luminaire Lumens: 2086.0 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 6.53 / 4.9 / 5.37
Luminous Opening: Rectangular w/ Sides (W: 0.71' x L: 0.25' x H: 2.08')
CIE Type: General Diffuse

Input Watts (W): 21.2
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: P368727
CATALOG NUMBER: 673-25-L3/827

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	56	56	56	50
1	92	85	79	74	84	78	73	68	64	60	57	52	49	46	41	38	36	30
2	82	71	63	56	74	65	58	51	53	47	42	42	38	34	32	29	26	21
3	73	61	51	44	66	55	47	40	45	39	33	36	31	26	27	23	20	15
4	66	53	43	35	60	48	39	32	39	32	27	31	25	21	23	19	16	12
5	60	46	36	29	54	42	33	27	34	27	22	27	21	17	20	16	13	9
6	55	41	31	25	50	37	29	22	30	23	18	24	18	14	18	14	10	7
7	50	36	27	21	46	33	25	19	27	20	16	21	16	12	16	12	9	6
8	47	33	24	18	42	30	22	16	24	18	13	19	14	10	15	11	7	5
9	43	30	21	16	39	27	19	14	22	16	12	18	13	9	13	9	6	4
10	40	27	19	14	37	25	17	13	20	14	10	16	11	8	12	8	6	4

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	845	845	845
5°	1602	1034	459
10°	2107	1244	325
15°	2453	1401	234
20°	2690	1562	192
25°	2913	1677	152
30°	3111	1785	134
35°	3270	1911	111
40°	3413	2013	92
45°	3551	2122	76
50°	3656	2217	64
55°	3761	2305	53
60°	3854	2404	44
65°	3934	2480	35
70°	4004	2558	28
75°	4074	2635	20
80°	4134	2714	20
85°	4177	2782	14



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 CATALOG NUMBER: 673-25-L3/827

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.8	0.1
10°-20°	15.8	0.8
20°-30°	39.8	1.9
30°-40°	73.5	3.5
40°-50°	113.6	5.4
50°-60°	154.7	7.4
60°-70°	191.5	9.2
70°-80°	219.0	10.5
80°-90°	232.9	11.2
90°-100°	233.5	11.2
100°-110°	218.7	10.5
110°-120°	190.8	9.1
120°-130°	154.1	7.4
130°-140°	113.3	5.4
140°-150°	73.6	3.5
150°-160°	39.8	1.9
160°-170°	15.8	0.8
170°-180°	2.8	0.1
0°-30°	58.5	2.8
0°-40°	132.1	6.3
0°-60°	400.4	19.2
0°-90°	1043.8	50.0
90°-120°	642.9	30.8
90°-150°	983.9	47.2
90°-180°	1042.0	50.0
0°-180°	2086.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	45	36	21	14	13	6
15°	126	94	40	14	12	37
25°	212	156	59	14	11	99
35°	301	218	79	13	10	190
45°	386	281	97	12	8	298
55°	458	334	113	11	6	411
65°	516	375	126	10	5	512
75°	557	405	134	9	3	588
85°	576	419	138	8	2	470
90°	581	422	139	8	2	318
95°	578	420	139	8	2	470
105°	556	404	134	9	4	587
115°	512	372	126	11	6	509
125°	454	331	113	12	7	408
135°	383	279	97	13	8	297
145°	301	217	79	14	10	190
155°	210	155	59	15	12	99
165°	123	92	40	15	13	36
175°	44	35	21	14	13	5
180°	15	15	15	15	15	



TEST NUMBER: P368727
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
2.5°	25.9	25.0	25.0	25.0	23.2	22.2	20.4	19.5	18.5	16.7	16.7
5°	45.4	44.5	43.6	42.6	38.9	36.1	32.4	29.7	25.9	22.2	21.3
7.5°	65.8	63.0	63.0	59.3	54.7	51.0	44.5	38.9	33.4	27.8	25.9
10°	84.3	82.5	81.5	76.9	71.4	64.9	56.5	49.1	40.8	34.3	30.6
12.5°	104.7	102.9	101.0	95.4	87.1	78.8	68.6	58.4	48.2	39.8	35.2
15°	126.0	125.1	121.4	114.0	104.7	94.5	81.5	68.6	56.5	45.4	39.8
17.5°	146.4	145.5	141.8	132.5	122.3	109.3	94.5	78.8	64.9	51.0	45.4
20°	167.7	166.8	161.2	152.0	139.0	124.2	107.5	89.9	72.3	57.5	50.0
22.5°	189.0	188.1	182.6	171.4	157.5	139.9	120.5	100.1	80.6	63.0	54.7
25°	212.2	209.4	203.9	190.9	175.1	155.7	133.4	111.2	89.0	68.6	59.3
27.5°	234.4	231.7	225.2	211.3	193.7	171.4	146.4	121.4	97.3	74.1	63.9
30°	257.6	255.8	248.3	230.7	211.3	187.2	159.4	131.6	104.7	80.6	68.6
32.5°	278.9	278.0	268.7	253.0	228.9	202.0	173.3	142.7	113.1	86.2	74.1
35°	301.2	299.3	289.1	272.4	248.3	217.8	186.3	152.9	121.4	91.7	78.8
37.5°	322.5	321.5	311.4	292.8	266.9	233.5	199.2	164.0	128.8	97.3	83.4
40°	343.8	342.9	331.7	311.4	283.6	250.2	212.2	174.2	137.1	103.8	88.0
42.5°	364.2	363.2	351.2	330.8	300.2	266.0	224.3	184.4	144.6	109.3	92.7
45°	385.5	383.6	371.6	349.3	317.8	280.8	238.2	193.7	152.0	114.9	97.3
47.5°	404.0	402.2	389.2	366.0	333.6	294.7	250.2	202.9	159.4	119.5	101.9
50°	422.6	421.6	407.7	383.6	349.3	307.7	261.3	212.2	166.8	124.2	105.6
52.5°	441.1	439.2	425.3	399.4	363.2	320.6	272.4	221.5	173.3	128.8	109.3
55°	457.8	456.8	442.0	415.1	378.1	333.6	282.6	228.9	179.8	133.4	113.1
57.5°	473.5	472.6	456.8	429.0	391.0	344.7	292.8	238.2	185.3	138.1	116.8
60°	489.3	487.4	472.6	442.9	403.1	355.8	302.1	246.5	190.9	141.8	120.5
62.5°	503.2	500.4	486.5	455.9	415.1	365.1	310.4	253.0	196.5	145.5	123.2
65°	516.1	514.3	498.5	468.0	425.3	375.3	317.8	259.5	201.1	149.2	126.0
67.5°	527.3	525.4	509.7	479.1	435.5	383.6	325.3	265.0	205.7	152.9	128.8
70°	538.4	537.5	520.8	489.3	444.8	392.0	332.7	270.6	209.4	155.7	130.7
72.5°	548.6	546.7	530.0	497.6	453.1	399.4	338.2	275.2	213.1	157.5	132.5
75°	556.9	555.1	538.4	505.0	459.6	404.9	342.9	279.9	215.9	159.4	134.4
77.5°	563.4	561.6	544.9	511.5	465.2	409.6	346.6	282.6	217.8	161.2	136.2
80°	569.9	568.0	550.4	516.1	470.7	413.3	350.3	285.4	219.6	163.1	137.1
82.5°	573.6	571.7	554.1	519.9	473.5	416.1	353.1	287.3	221.5	163.1	138.1
85°	576.4	574.5	556.9	522.6	475.4	418.8	354.9	288.2	222.4	164.0	138.1
87.5°	578.2	576.4	558.8	524.5	477.2	419.8	355.8	289.1	222.4	164.0	138.1
88°	578.2	576.4	558.8	524.5	477.2	419.8	355.8	289.1	222.4	164.9	138.1
90°	581.0	579.2	561.6	527.3	480.0	421.6	357.7	291.0	224.3	165.9	139.0
92.5°	580.1	578.2	560.6	526.3	479.1	420.7	356.8	290.0	224.3	165.9	139.0
95°	578.2	576.4	558.8	524.5	477.2	419.8	355.8	290.0	223.3	164.9	139.0
97.5°	573.6	571.7	554.1	520.8	474.4	417.0	353.1	288.2	221.5	164.0	138.1
100°	569.0	567.1	549.5	516.1	469.8	413.3	350.3	285.4	220.5	163.1	137.1
102.5°	563.4	560.6	543.9	510.6	465.2	409.6	346.6	282.6	217.8	161.2	136.2
105°	556.0	554.1	536.5	504.1	458.7	404.0	342.9	278.9	215.0	159.4	134.4
107.5°	546.7	544.9	528.2	495.8	452.2	397.5	337.3	275.2	212.2	157.5	132.5



TEST NUMBER: P368727
 CATALOG NUMBER: 673-25-L3/827

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	536.5	534.7	518.0	487.4	443.9	391.0	331.7	270.6	208.5	154.8	130.7
112.5°	525.4	523.6	506.9	476.3	434.6	382.7	324.3	265.0	204.8	152.0	128.8
115°	512.4	510.6	494.8	464.3	423.5	372.5	316.9	258.5	200.2	149.2	126.0
117.5°	499.5	497.6	482.8	453.1	413.3	364.2	308.6	252.1	195.5	145.5	123.2
120°	485.6	483.7	468.9	440.2	402.2	354.0	300.2	245.6	190.0	141.8	119.5
122.5°	469.8	468.9	455.0	426.3	389.2	342.9	291.9	235.4	184.4	138.1	116.8
125°	454.1	452.2	439.2	412.4	375.3	330.8	280.8	228.0	177.9	133.4	113.1
127.5°	438.3	435.5	422.6	396.6	362.3	318.8	270.6	219.6	172.4	128.8	109.3
130°	420.7	417.9	405.9	380.9	347.5	305.8	261.3	211.3	165.9	124.2	105.6
132.5°	403.1	399.4	388.3	364.2	332.7	292.8	249.3	202.0	158.5	118.6	101.9
135°	382.7	379.9	368.8	346.6	316.9	278.9	235.4	192.7	152.0	114.0	97.3
137.5°	364.2	360.5	349.3	329.0	300.2	264.1	224.3	183.5	144.6	108.4	92.7
140°	342.9	340.1	330.8	310.4	283.6	249.3	211.3	173.3	136.2	102.9	88.0
142.5°	322.5	320.6	310.4	291.9	266.0	232.6	199.2	163.1	128.8	97.3	83.4
145°	301.2	298.4	290.0	272.4	249.3	216.8	186.3	152.9	121.4	91.7	78.8
147.5°	278.9	278.0	267.8	253.0	228.9	202.0	173.3	142.7	113.1	86.2	74.1
150°	257.6	255.8	247.4	231.7	211.3	186.3	160.3	132.5	104.7	80.6	69.5
152.5°	232.6	232.6	223.3	211.3	192.7	170.5	146.4	121.4	96.4	74.1	63.9
155°	210.4	209.4	202.0	190.9	175.1	154.8	133.4	111.2	88.0	68.6	59.3
157.5°	189.0	188.1	181.6	171.4	156.6	139.9	120.5	100.1	80.6	63.0	54.7
160°	166.8	165.9	160.3	152.0	139.0	123.2	106.6	89.9	72.3	56.5	50.0
162.5°	144.6	144.6	139.0	132.5	121.4	108.4	93.6	78.8	63.9	51.0	44.5
165°	123.2	122.3	118.6	113.1	103.8	91.7	80.6	68.6	56.5	45.4	39.8
167.5°	102.9	101.9	100.1	94.5	87.1	77.8	68.6	58.4	48.2	38.9	35.2
170°	82.5	81.5	80.6	76.0	70.4	63.9	56.5	48.2	40.8	33.4	30.6
172.5°	63.0	62.1	61.2	58.4	53.7	49.1	44.5	38.0	33.4	27.8	25.9
175°	44.5	43.6	42.6	40.8	38.0	35.2	31.5	28.7	25.9	22.2	21.3
177.5°	25.0	25.0	25.0	24.1	23.2	22.2	20.4	19.5	18.5	17.6	16.7
180°	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8



TEST NUMBER: P368727
 CATALOG NUMBER: 673-25-L3/827

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
2.5°	15.8	14.8	14.8	13.9	13.9	13.9	13.0	13.0	13.0	13.0
5°	19.5	17.6	15.8	14.8	13.9	13.0	13.0	13.0	13.0	13.0
7.5°	24.1	20.4	17.6	14.8	13.9	13.0	13.0	13.0	13.0	13.0
10°	27.8	22.2	18.5	15.8	13.9	13.0	13.0	13.0	13.0	13.0
12.5°	31.5	25.0	20.4	16.7	13.9	13.0	13.0	13.0	13.0	13.0
15°	35.2	27.8	21.3	16.7	13.9	13.0	13.0	13.0	13.0	12.0
17.5°	39.8	29.7	23.2	17.6	13.9	13.0	13.0	13.0	12.0	12.0
20°	43.6	32.4	24.1	17.6	13.9	13.0	12.0	12.0	12.0	12.0
22.5°	47.3	35.2	25.0	18.5	13.9	12.0	12.0	12.0	12.0	12.0
25°	51.0	37.1	25.9	18.5	13.9	12.0	12.0	12.0	11.1	11.1
27.5°	55.6	39.8	27.8	19.5	13.9	12.0	11.1	11.1	11.1	11.1
30°	59.3	41.7	28.7	19.5	13.9	11.1	11.1	11.1	11.1	11.1
32.5°	63.0	43.6	29.7	19.5	13.9	10.2	10.2	10.2	10.2	10.2
35°	66.7	46.3	30.6	20.4	13.0	10.2	10.2	10.2	10.2	10.2
37.5°	70.4	48.2	31.5	20.4	13.0	9.3	9.3	9.3	9.3	9.3
40°	74.1	51.0	33.4	20.4	13.0	9.3	9.3	9.3	9.3	9.3
42.5°	77.8	52.8	34.3	20.4	12.0	8.3	8.3	8.3	8.3	8.3
45°	81.5	55.6	35.2	21.3	12.0	8.3	8.3	8.3	8.3	8.3
47.5°	85.3	57.5	36.1	21.3	12.0	7.4	7.4	7.4	7.4	7.4
50°	89.0	59.3	37.1	21.3	12.0	7.4	7.4	7.4	7.4	7.4
52.5°	91.7	61.2	38.0	22.2	12.0	6.5	6.5	6.5	6.5	6.5
55°	94.5	63.0	38.9	22.2	11.1	6.5	6.5	6.5	6.5	6.5
57.5°	97.3	63.9	39.8	22.2	11.1	5.6	5.6	5.6	5.6	5.6
60°	100.1	65.8	39.8	22.2	11.1	5.6	5.6	5.6	5.6	5.6
62.5°	102.9	67.6	40.8	22.2	10.2	5.6	5.6	5.6	4.6	4.6
65°	104.7	68.6	41.7	22.2	10.2	4.6	4.6	4.6	4.6	4.6
67.5°	106.6	69.5	41.7	22.2	10.2	4.6	4.6	4.6	4.6	4.6
70°	108.4	70.4	42.6	22.2	10.2	3.7	3.7	3.7	3.7	3.7
72.5°	110.3	71.4	42.6	22.2	9.3	3.7	3.7	3.7	3.7	3.7
75°	111.2	72.3	42.6	22.2	9.3	3.7	2.8	2.8	2.8	2.8
77.5°	113.1	73.2	42.6	22.2	9.3	2.8	2.8	2.8	2.8	2.8
80°	113.1	73.2	43.6	22.2	9.3	2.8	2.8	2.8	2.8	2.8
82.5°	114.0	73.2	42.6	22.2	8.3	1.9	1.9	1.9	1.9	1.9
85°	114.0	73.2	42.6	21.3	8.3	1.9	1.9	1.9	1.9	1.9
87.5°	114.0	73.2	42.6	21.3	8.3	1.9	1.9	1.9	1.9	1.9
88°	114.0	74.1	42.6	21.3	8.3	1.9	1.9	1.9	1.9	1.9
90°	114.9	74.1	43.6	21.3	8.3	1.9	1.9	1.9	1.9	1.9
92.5°	114.9	74.1	43.6	21.3	8.3	1.9	1.9	1.9	1.9	1.9
95°	114.9	74.1	43.6	21.3	8.3	1.9	1.9	1.9	1.9	1.9
97.5°	114.0	73.2	43.6	22.2	8.3	1.9	1.9	1.9	1.9	1.9
100°	113.1	73.2	43.6	22.2	8.3	2.8	2.8	2.8	2.8	2.8
102.5°	113.1	73.2	43.6	22.2	9.3	2.8	2.8	2.8	2.8	2.8
105°	111.2	72.3	42.6	22.2	9.3	3.7	3.7	3.7	3.7	3.7
107.5°	110.3	71.4	42.6	22.2	10.2	3.7	3.7	3.7	3.7	3.7



TEST NUMBER: P368727
 CATALOG NUMBER: 673-25-L3/827

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	108.4	70.4	42.6	22.2	10.2	4.6	4.6	4.6	4.6	4.6
112.5°	106.6	69.5	41.7	22.2	10.2	4.6	4.6	4.6	4.6	4.6
115°	104.7	68.6	41.7	22.2	11.1	5.6	5.6	5.6	5.6	5.6
117.5°	101.9	67.6	40.8	22.2	11.1	5.6	5.6	5.6	5.6	5.6
120°	99.2	65.8	40.8	22.2	11.1	6.5	6.5	6.5	6.5	6.5
122.5°	97.3	64.9	39.8	22.2	12.0	6.5	6.5	6.5	6.5	6.5
125°	94.5	63.0	38.9	22.2	12.0	7.4	7.4	7.4	7.4	7.4
127.5°	90.8	61.2	38.0	22.2	12.0	7.4	7.4	7.4	7.4	7.4
130°	88.0	59.3	37.1	22.2	13.0	8.3	8.3	8.3	8.3	8.3
132.5°	85.3	57.5	36.1	21.3	13.0	8.3	8.3	8.3	8.3	8.3
135°	81.5	55.6	35.2	21.3	13.0	9.3	8.3	8.3	8.3	8.3
137.5°	77.8	52.8	34.3	21.3	13.0	9.3	9.3	9.3	9.3	9.3
140°	74.1	51.0	33.4	21.3	13.0	9.3	9.3	9.3	9.3	9.3
142.5°	70.4	49.1	32.4	20.4	13.9	10.2	10.2	10.2	10.2	10.2
145°	66.7	46.3	31.5	20.4	13.9	10.2	10.2	10.2	10.2	10.2
147.5°	63.0	44.5	29.7	20.4	13.9	11.1	11.1	11.1	10.2	11.1
150°	59.3	41.7	28.7	19.5	13.9	11.1	11.1	11.1	11.1	11.1
152.5°	54.7	39.8	27.8	19.5	13.9	12.0	12.0	12.0	11.1	12.0
155°	51.0	37.1	25.9	19.5	14.8	12.0	12.0	12.0	12.0	12.0
157.5°	47.3	34.3	25.0	18.5	14.8	13.0	12.0	12.0	12.0	12.0
160°	42.6	32.4	24.1	18.5	14.8	13.0	13.0	13.0	13.0	13.0
162.5°	38.9	29.7	23.2	17.6	14.8	13.0	13.0	13.0	13.0	13.0
165°	35.2	27.8	21.3	17.6	14.8	13.0	13.0	13.0	13.0	13.0
167.5°	31.5	25.0	20.4	16.7	14.8	13.9	13.9	13.0	13.0	13.0
170°	27.8	22.2	18.5	15.8	14.8	13.9	13.9	13.0	13.0	13.0
172.5°	24.1	20.4	17.6	15.8	13.9	13.9	13.9	13.0	13.0	13.0
175°	19.5	17.6	15.8	14.8	13.9	13.9	13.9	13.9	13.0	13.0
177.5°	16.7	15.8	14.8	14.8	13.9	13.9	13.9	13.9	13.9	13.9
180°	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8

(END OF REPORT)