

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: P368729

Luminaire Tested: **673-25-L3/835**

Issue Date: 11/13/2019

Test Information

Test Method: LM-79-08
Report Number: P368729
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-L3/835
Description: 25" 673 SERIES LUMINOUS WALL SCONCE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

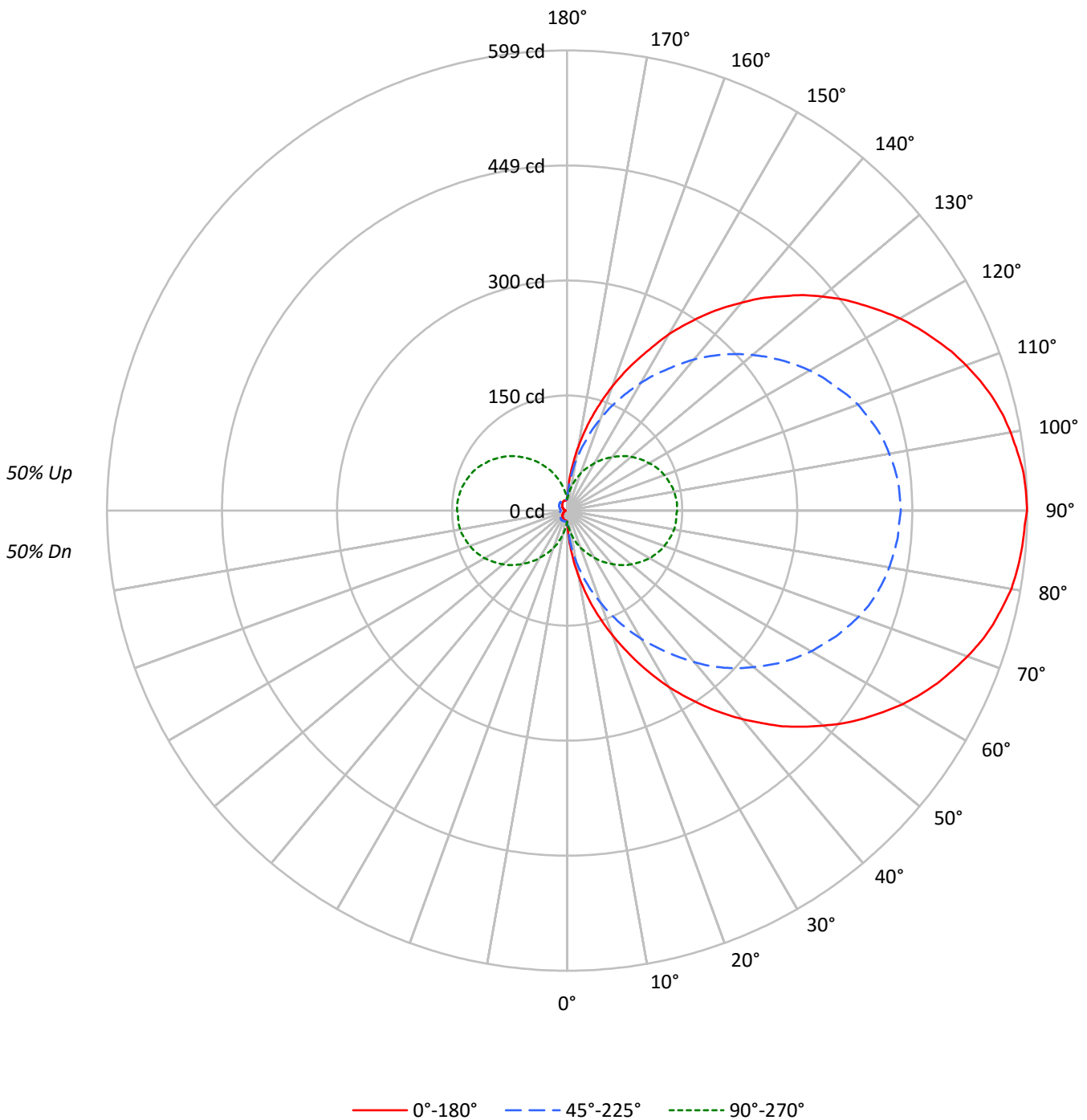
Lumens per Lamp: N/A
Luminaire Lumens: 2149.3 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 6.53 / 4.9 / 5.37
Luminous Opening: Rectangular w/ Sides (W: 0.71' x L: 0.25' x H: 2.08')
CIE Type: General Diffuse

Input Watts (W): 21
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: P368729
CATALOG NUMBER: 673-25-L3/835

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°	869	869	869
5°	1652	1068	473
10°	2172	1280	335
15°	2529	1446	241
20°	2771	1612	199
25°	3001	1728	158
30°	3205	1839	139
35°	3369	1969	114
40°	3516	2075	94
45°	3658	2188	79
50°	3767	2284	66
55°	3875	2374	55
60°	3971	2476	45
65°	4053	2557	37
70°	4126	2634	28
75°	4198	2714	21
80°	4259	2798	21
85°	4303	2867	14



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.9	0.1
10°-20°	16.3	0.8
20°-30°	41.1	1.9
30°-40°	75.8	3.5
40°-50°	117.1	5.4
50°-60°	159.4	7.4
60°-70°	197.3	9.2
70°-80°	225.6	10.5
80°-90°	240.0	11.2
90°-100°	240.6	11.2
100°-110°	225.3	10.5
110°-120°	196.6	9.1
120°-130°	158.7	7.4
130°-140°	116.7	5.4
140°-150°	75.8	3.5
150°-160°	41.0	1.9
160°-170°	16.2	0.8
170°-180°	2.9	0.1
0°-30°	60.3	2.8
0°-40°	136.1	6.3
0°-60°	412.5	19.2
0°-90°	1075.4	50.0
90°-120°	662.5	30.8
90°-150°	1013.7	47.2
90°-180°	1074.0	50.0
0°-180°	2149.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	47	37	22	14	13	6
15°	130	97	41	14	12	38
25°	219	160	61	14	12	102
35°	310	224	81	13	10	196
45°	397	289	100	12	9	307
55°	472	344	116	12	7	423
65°	532	387	130	10	5	527
75°	574	417	138	10	3	606
85°	594	432	142	9	2	484
90°	599	434	143	9	2	328
95°	596	432	143	9	2	484
105°	573	416	138	10	4	605
115°	528	384	130	12	6	524
125°	468	341	116	12	8	420
135°	394	287	100	13	9	306
145°	310	223	81	14	10	196
155°	217	159	61	15	12	102
165°	127	94	41	15	13	37
175°	46	36	22	14	13	6
180°	15	15	15	15	15	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
2.5°	26.7	25.8	25.8	25.8	23.9	22.9	21.0	20.1	19.1	17.2	17.2
5°	46.8	45.8	44.9	43.9	40.1	37.2	33.4	30.6	26.7	22.9	22.0
7.5°	67.8	64.9	64.9	61.1	56.3	52.5	45.8	40.1	34.4	28.6	26.7
10°	86.9	85.0	84.0	79.2	73.5	66.8	58.2	50.6	42.0	35.3	31.5
12.5°	107.9	106.0	104.1	98.3	89.7	81.2	70.7	60.2	49.6	41.1	36.3
15°	129.9	128.9	125.1	117.4	107.9	97.4	84.0	70.7	58.2	46.8	41.1
17.5°	150.9	149.9	146.1	136.5	126.0	112.7	97.4	81.2	66.8	52.5	46.8
20°	172.8	171.9	166.1	156.6	143.2	127.9	110.8	92.6	74.5	59.2	51.6
22.5°	194.8	193.8	188.1	176.6	162.3	144.2	124.1	103.1	83.1	64.9	56.3
25°	218.6	215.8	210.1	196.7	180.5	160.4	137.5	114.6	91.7	70.7	61.1
27.5°	241.6	238.7	232.0	217.7	199.6	176.6	150.9	125.1	100.3	76.4	65.9
30°	265.4	263.5	255.9	237.7	217.7	192.9	164.2	135.6	107.9	83.1	70.7
32.5°	287.4	286.4	276.9	260.7	235.8	208.1	178.5	147.0	116.5	88.8	76.4
35°	310.3	308.4	297.9	280.7	255.9	224.4	191.9	157.5	125.1	94.5	81.2
37.5°	332.3	331.3	320.8	301.7	275.0	240.6	205.3	169.0	132.7	100.3	85.9
40°	354.2	353.3	341.8	320.8	292.2	257.8	218.6	179.5	141.3	106.9	90.7
42.5°	375.2	374.3	361.9	340.9	309.4	274.0	231.1	190.0	148.9	112.7	95.5
45°	397.2	395.3	382.9	360.0	327.5	289.3	245.4	199.6	156.6	118.4	100.3
47.5°	416.3	414.4	401.0	377.1	343.7	303.6	257.8	209.1	164.2	123.2	105.0
50°	435.4	434.4	420.1	395.3	360.0	317.0	269.2	218.6	171.9	127.9	108.8
52.5°	454.5	452.6	438.2	411.5	374.3	330.4	280.7	228.2	178.5	132.7	112.7
55°	471.7	470.7	455.4	427.7	389.6	343.7	291.2	235.8	185.2	137.5	116.5
57.5°	487.9	486.9	470.7	442.1	402.9	355.2	301.7	245.4	191.0	142.3	120.3
60°	504.1	502.2	486.9	456.4	415.3	366.6	311.3	254.0	196.7	146.1	124.1
62.5°	518.4	515.6	501.3	469.8	427.7	376.2	319.9	260.7	202.4	149.9	127.0
65°	531.8	529.9	513.7	482.2	438.2	386.7	327.5	267.3	207.2	153.7	129.9
67.5°	543.3	541.4	525.1	493.6	448.7	395.3	335.1	273.1	212.0	157.5	132.7
70°	554.7	553.8	536.6	504.1	458.3	403.9	342.8	278.8	215.8	160.4	134.6
72.5°	565.2	563.3	546.1	512.7	466.9	411.5	348.5	283.6	219.6	162.3	136.5
75°	573.8	571.9	554.7	520.4	473.6	417.2	353.3	288.3	222.5	164.2	138.4
77.5°	580.5	578.6	561.4	527.0	479.3	422.0	357.1	291.2	224.4	166.1	140.4
80°	587.2	585.3	567.1	531.8	485.0	425.8	360.9	294.1	226.3	168.0	141.3
82.5°	591.0	589.1	571.0	535.6	487.9	428.7	363.8	296.0	228.2	168.0	142.3
85°	593.9	592.0	573.8	538.5	489.8	431.6	365.7	296.9	229.1	169.0	142.3
87.5°	595.8	593.9	575.7	540.4	491.7	432.5	366.6	297.9	229.1	169.0	142.3
88°	595.8	593.9	575.7	540.4	491.7	432.5	366.6	297.9	229.1	170.0	142.3
90°	598.7	596.7	578.6	543.3	494.6	434.4	368.5	299.8	231.1	170.9	143.2
92.5°	597.7	595.8	577.6	542.3	493.6	433.5	367.6	298.8	231.1	170.9	143.2
95°	595.8	593.9	575.7	540.4	491.7	432.5	366.6	298.8	230.1	170.0	143.2
97.5°	591.0	589.1	571.0	536.6	488.9	429.7	363.8	296.9	228.2	169.0	142.3
100°	586.2	584.3	566.2	531.8	484.1	425.8	360.9	294.1	227.2	168.0	141.3
102.5°	580.5	577.6	560.5	526.1	479.3	422.0	357.1	291.2	224.4	166.1	140.4
105°	572.9	571.0	552.8	519.4	472.6	416.3	353.3	287.4	221.5	164.2	138.4
107.5°	563.3	561.4	544.2	510.8	465.9	409.6	347.5	283.6	218.6	162.3	136.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	552.8	550.9	533.7	502.2	457.3	402.9	341.8	278.8	214.8	159.4	134.6
112.5°	541.4	539.5	522.3	490.8	447.8	394.3	334.2	273.1	211.0	156.6	132.7
115°	528.0	526.1	509.9	478.3	436.3	383.8	326.5	266.4	206.2	153.7	129.9
117.5°	514.6	512.7	497.4	466.9	425.8	375.2	317.9	259.7	201.5	149.9	127.0
120°	500.3	498.4	483.1	453.5	414.4	364.7	309.4	253.0	195.7	146.1	123.2
122.5°	484.1	483.1	468.8	439.2	401.0	353.3	300.8	242.5	190.0	142.3	120.3
125°	467.8	465.9	452.6	424.9	386.7	340.9	289.3	234.9	183.3	137.5	116.5
127.5°	451.6	448.7	435.4	408.6	373.3	328.4	278.8	226.3	177.6	132.7	112.7
130°	433.5	430.6	418.2	392.4	358.0	315.1	269.2	217.7	170.9	127.9	108.8
132.5°	415.3	411.5	400.1	375.2	342.8	301.7	256.8	208.1	163.3	122.2	105.0
135°	394.3	391.5	380.0	357.1	326.5	287.4	242.5	198.6	156.6	117.4	100.3
137.5°	375.2	371.4	360.0	338.9	309.4	272.1	231.1	189.0	148.9	111.7	95.5
140°	353.3	350.4	340.9	319.9	292.2	256.8	217.7	178.5	140.4	106.0	90.7
142.5°	332.3	330.4	319.9	300.8	274.0	239.7	205.3	168.0	132.7	100.3	85.9
145°	310.3	307.4	298.8	280.7	256.8	223.4	191.9	157.5	125.1	94.5	81.2
147.5°	287.4	286.4	275.9	260.7	235.8	208.1	178.5	147.0	116.5	88.8	76.4
150°	265.4	263.5	254.9	238.7	217.7	191.9	165.2	136.5	107.9	83.1	71.6
152.5°	239.7	239.7	230.1	217.7	198.6	175.7	150.9	125.1	99.3	76.4	65.9
155°	216.7	215.8	208.1	196.7	180.5	159.4	137.5	114.6	90.7	70.7	61.1
157.5°	194.8	193.8	187.1	176.6	161.4	144.2	124.1	103.1	83.1	64.9	56.3
160°	171.9	170.9	165.2	156.6	143.2	127.0	109.8	92.6	74.5	58.2	51.6
162.5°	148.9	148.9	143.2	136.5	125.1	111.7	96.4	81.2	65.9	52.5	45.8
165°	127.0	126.0	122.2	116.5	106.9	94.5	83.1	70.7	58.2	46.8	41.1
167.5°	106.0	105.0	103.1	97.4	89.7	80.2	70.7	60.2	49.6	40.1	36.3
170°	85.0	84.0	83.1	78.3	72.6	65.9	58.2	49.6	42.0	34.4	31.5
172.5°	64.9	64.0	63.0	60.2	55.4	50.6	45.8	39.1	34.4	28.6	26.7
175°	45.8	44.9	43.9	42.0	39.1	36.3	32.5	29.6	26.7	22.9	22.0
177.5°	25.8	25.8	25.8	24.8	23.9	22.9	21.0	20.1	19.1	18.1	17.2
180°	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
2.5°	16.2	15.3	15.3	14.3	14.3	14.3	13.4	13.4	13.4	13.4
5°	20.1	18.1	16.2	15.3	14.3	13.4	13.4	13.4	13.4	13.4
7.5°	24.8	21.0	18.1	15.3	14.3	13.4	13.4	13.4	13.4	13.4
10°	28.6	22.9	19.1	16.2	14.3	13.4	13.4	13.4	13.4	13.4
12.5°	32.5	25.8	21.0	17.2	14.3	13.4	13.4	13.4	13.4	13.4
15°	36.3	28.6	22.0	17.2	14.3	13.4	13.4	13.4	13.4	12.4
17.5°	41.1	30.6	23.9	18.1	14.3	13.4	13.4	13.4	12.4	12.4
20°	44.9	33.4	24.8	18.1	14.3	13.4	12.4	12.4	12.4	12.4
22.5°	48.7	36.3	25.8	19.1	14.3	12.4	12.4	12.4	12.4	12.4
25°	52.5	38.2	26.7	19.1	14.3	12.4	12.4	12.4	11.5	11.5
27.5°	57.3	41.1	28.6	20.1	14.3	12.4	11.5	11.5	11.5	11.5
30°	61.1	43.0	29.6	20.1	14.3	11.5	11.5	11.5	11.5	11.5
32.5°	64.9	44.9	30.6	20.1	14.3	10.5	10.5	10.5	10.5	10.5
35°	68.7	47.7	31.5	21.0	13.4	10.5	10.5	10.5	10.5	10.5
37.5°	72.6	49.6	32.5	21.0	13.4	9.5	9.5	9.5	9.5	9.5
40°	76.4	52.5	34.4	21.0	13.4	9.5	9.5	9.5	9.5	9.5
42.5°	80.2	54.4	35.3	21.0	12.4	8.6	8.6	8.6	8.6	8.6
45°	84.0	57.3	36.3	22.0	12.4	8.6	8.6	8.6	8.6	8.6
47.5°	87.8	59.2	37.2	22.0	12.4	7.6	7.6	7.6	7.6	7.6
50°	91.7	61.1	38.2	22.0	12.4	7.6	7.6	7.6	7.6	7.6
52.5°	94.5	63.0	39.1	22.9	12.4	6.7	6.7	6.7	6.7	6.7
55°	97.4	64.9	40.1	22.9	11.5	6.7	6.7	6.7	6.7	6.7
57.5°	100.3	65.9	41.1	22.9	11.5	5.7	5.7	5.7	5.7	5.7
60°	103.1	67.8	41.1	22.9	11.5	5.7	5.7	5.7	5.7	5.7
62.5°	106.0	69.7	42.0	22.9	10.5	5.7	5.7	5.7	4.8	4.8
65°	107.9	70.7	43.0	22.9	10.5	4.8	4.8	4.8	4.8	4.8
67.5°	109.8	71.6	43.0	22.9	10.5	4.8	4.8	4.8	4.8	4.8
70°	111.7	72.6	43.9	22.9	10.5	3.8	3.8	3.8	3.8	3.8
72.5°	113.6	73.5	43.9	22.9	9.5	3.8	3.8	3.8	3.8	3.8
75°	114.6	74.5	43.9	22.9	9.5	3.8	2.9	2.9	2.9	2.9
77.5°	116.5	75.4	43.9	22.9	9.5	2.9	2.9	2.9	2.9	2.9
80°	116.5	75.4	44.9	22.9	9.5	2.9	2.9	2.9	2.9	2.9
82.5°	117.4	75.4	43.9	22.9	8.6	1.9	1.9	1.9	1.9	1.9
85°	117.4	75.4	43.9	22.0	8.6	1.9	1.9	1.9	1.9	1.9
87.5°	117.4	75.4	43.9	22.0	8.6	1.9	1.9	1.9	1.9	1.9
88°	117.4	76.4	43.9	22.0	8.6	1.9	1.9	1.9	1.9	1.9
90°	118.4	76.4	44.9	22.0	8.6	1.9	1.9	1.9	1.9	1.9
92.5°	118.4	76.4	44.9	22.0	8.6	1.9	1.9	1.9	1.9	1.9
95°	118.4	76.4	44.9	22.0	8.6	1.9	1.9	1.9	1.9	1.9
97.5°	117.4	75.4	44.9	22.9	8.6	1.9	1.9	1.9	1.9	1.9
100°	116.5	75.4	44.9	22.9	8.6	2.9	2.9	2.9	2.9	2.9
102.5°	116.5	75.4	44.9	22.9	9.5	2.9	2.9	2.9	2.9	2.9
105°	114.6	74.5	43.9	22.9	9.5	3.8	3.8	3.8	3.8	3.8
107.5°	113.6	73.5	43.9	22.9	10.5	3.8	3.8	3.8	3.8	3.8



TEST NUMBER: P368729
 CATALOG NUMBER: 673-25-L3/835

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	111.7	72.6	43.9	22.9	10.5	4.8	4.8	4.8	4.8	4.8
112.5°	109.8	71.6	43.0	22.9	10.5	4.8	4.8	4.8	4.8	4.8
115°	107.9	70.7	43.0	22.9	11.5	5.7	5.7	5.7	5.7	5.7
117.5°	105.0	69.7	42.0	22.9	11.5	5.7	5.7	5.7	5.7	5.7
120°	102.2	67.8	42.0	22.9	11.5	6.7	6.7	6.7	6.7	6.7
122.5°	100.3	66.8	41.1	22.9	12.4	6.7	6.7	6.7	6.7	6.7
125°	97.4	64.9	40.1	22.9	12.4	7.6	7.6	7.6	7.6	7.6
127.5°	93.6	63.0	39.1	22.9	12.4	7.6	7.6	7.6	7.6	7.6
130°	90.7	61.1	38.2	22.9	13.4	8.6	8.6	8.6	8.6	8.6
132.5°	87.8	59.2	37.2	22.0	13.4	8.6	8.6	8.6	8.6	8.6
135°	84.0	57.3	36.3	22.0	13.4	9.5	8.6	8.6	8.6	8.6
137.5°	80.2	54.4	35.3	22.0	13.4	9.5	9.5	9.5	9.5	9.5
140°	76.4	52.5	34.4	22.0	13.4	9.5	9.5	9.5	9.5	9.5
142.5°	72.6	50.6	33.4	21.0	14.3	10.5	10.5	10.5	10.5	10.5
145°	68.7	47.7	32.5	21.0	14.3	10.5	10.5	10.5	10.5	10.5
147.5°	64.9	45.8	30.6	21.0	14.3	11.5	11.5	11.5	10.5	11.5
150°	61.1	43.0	29.6	20.1	14.3	11.5	11.5	11.5	11.5	11.5
152.5°	56.3	41.1	28.6	20.1	14.3	12.4	12.4	12.4	11.5	12.4
155°	52.5	38.2	26.7	20.1	15.3	12.4	12.4	12.4	12.4	12.4
157.5°	48.7	35.3	25.8	19.1	15.3	13.4	12.4	12.4	12.4	12.4
160°	43.9	33.4	24.8	19.1	15.3	13.4	13.4	13.4	13.4	13.4
162.5°	40.1	30.6	23.9	18.1	15.3	13.4	13.4	13.4	13.4	13.4
165°	36.3	28.6	22.0	18.1	15.3	13.4	13.4	13.4	13.4	13.4
167.5°	32.5	25.8	21.0	17.2	15.3	14.3	14.3	13.4	13.4	13.4
170°	28.6	22.9	19.1	16.2	15.3	14.3	14.3	13.4	13.4	13.4
172.5°	24.8	21.0	18.1	16.2	14.3	14.3	14.3	13.4	13.4	13.4
175°	20.1	18.1	16.2	15.3	14.3	14.3	14.3	14.3	13.4	13.4
177.5°	17.2	16.2	15.3	15.3	14.3	14.3	14.3	14.3	14.3	14.3
180°	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3

(END OF REPORT)