

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: P368744

Luminaire Tested: **674-W-55-L5/830**

Issue Date: 11/13/2019

Test Information

Test Method: LM-79-08
Report Number: P368744
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-L5/830
Description: 55" 674 SERIES LUMINOUS WALL SCONCE
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

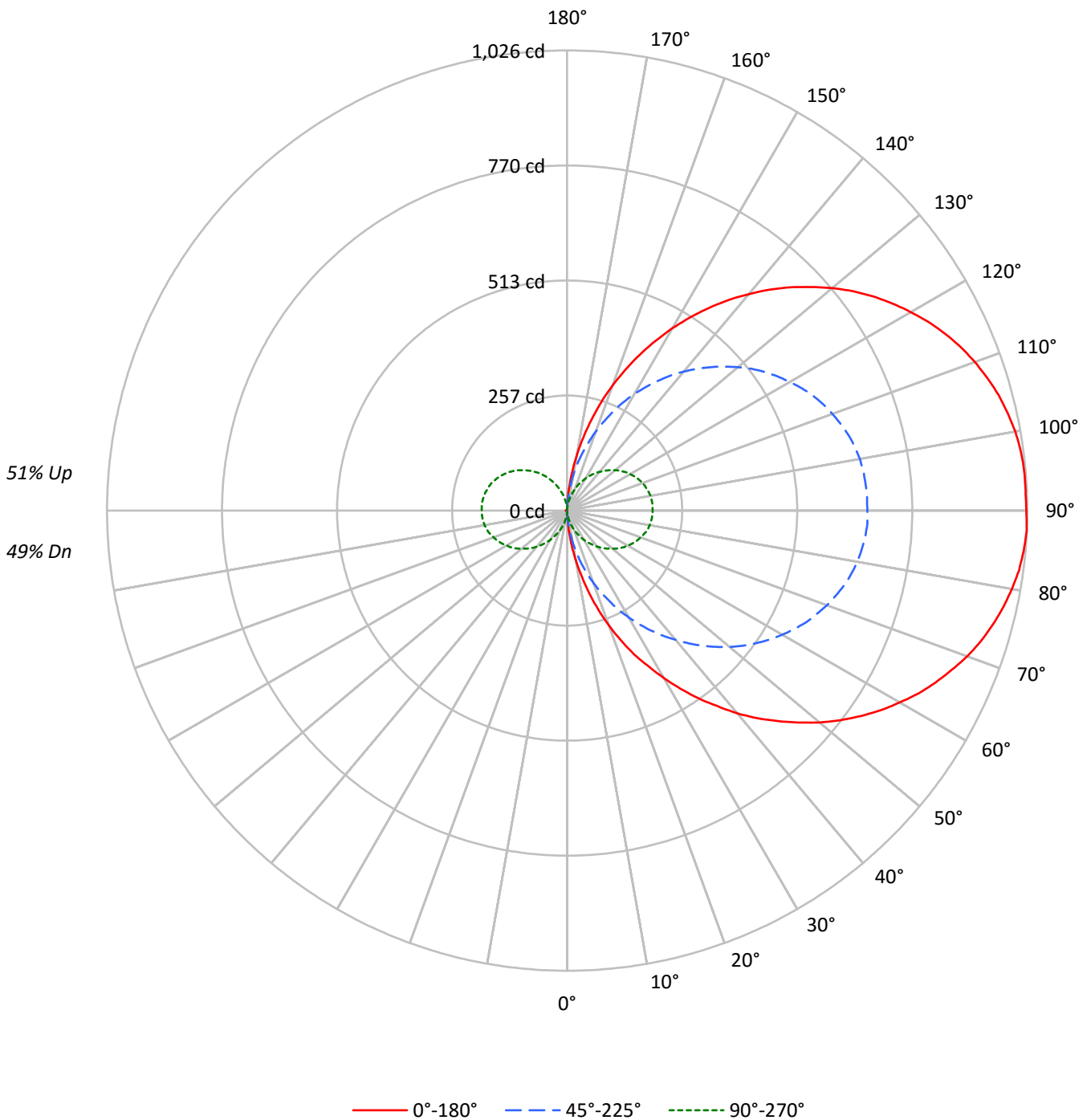
Lumens per Lamp: N/A
Luminaire Lumens: 3256.1 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 14.12 / 10 / 10.96
Luminous Opening: Rectangular w/ Sides (W: 0.71' x L: 0.21' x H: 4.58')
CIE Type: General Diffuse

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°	1199	393	0
10°	1724	682	0
15°	2097	906	0
20°	2353	1085	0
25°	2529	1222	0
30°	2648	1352	0
35°	2776	1451	0
40°	2888	1556	0
45°	2976	1646	0
50°	3064	1723	0
55°	3133	1807	4
60°	3193	1862	3
65°	3248	1927	7
70°	3297	1983	7
75°	3332	2041	6
80°	3363	2082	6
85°	3388	2117	9



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.2	0.1
10°-20°	18.5	0.6
20°-30°	53.9	1.7
30°-40°	105.8	3.2
40°-50°	169.4	5.2
50°-60°	237.0	7.3
60°-70°	298.3	9.2
70°-80°	345.7	10.6
80°-90°	371.3	11.4
90°-100°	372.2	11.4
100°-110°	350.9	10.8
110°-120°	307.0	9.4
120°-130°	247.3	7.6
130°-140°	180.0	5.5
140°-150°	114.4	3.5
150°-160°	59.1	1.8
160°-170°	20.5	0.6
170°-180°	2.5	0.1
0°-30°	74.6	2.3
0°-40°	180.4	5.5
0°-60°	586.8	18.0
0°-90°	1602.1	49.2
90°-120°	1030.1	31.6
90°-150°	1571.9	48.3
90°-180°	1654.0	50.8
0°-180°	3256.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3	3	3	3	3	
5°	48	29	8	3	0	7
15°	192	121	33	2	0	57
25°	354	222	61	2	0	165
35°	512	327	90	2	0	323
45°	664	426	119	2	0	515
55°	799	515	146	3	1	717
65°	907	588	166	3	2	899
75°	983	640	182	3	2	1038
85°	1022	667	190	4	3	832
90°	1024	669	190	4	3	561
95°	1023	668	190	4	3	834
105°	996	650	184	4	3	1052
115°	931	605	172	3	2	923
125°	832	539	152	2	1	746
135°	704	452	127	2	1	546
145°	552	353	98	2	0	348
155°	384	244	68	2	0	180
165°	209	134	38	2	0	62
175°	54	35	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°	16.9	15.0	14.1	13.1	11.3	9.4	8.4	6.6	5.6	4.7	4.7
5°	47.9	46.0	44.1	41.3	34.7	29.1	23.5	18.8	14.1	9.4	8.4
7.5°	79.8	77.9	74.1	68.5	60.1	49.7	39.4	31.0	24.4	16.9	13.1
10°	113.6	111.7	107.9	99.5	86.3	72.3	57.2	45.0	34.7	24.4	19.7
12.5°	151.1	149.2	142.7	131.4	114.5	95.7	76.0	59.1	46.9	31.9	26.3
15°	191.5	188.6	181.1	166.1	144.5	121.1	95.7	74.1	58.2	41.3	32.8
17.5°	231.8	230.9	216.8	199.9	174.6	146.4	115.4	90.1	70.4	49.7	39.4
20°	273.1	271.2	257.2	237.4	205.5	171.7	135.1	106.1	82.6	58.2	46.9
22.5°	312.5	311.6	294.7	270.3	238.4	197.1	156.7	122.0	94.8	67.6	53.5
25°	353.8	350.1	333.2	305.0	268.4	222.4	176.4	138.0	107.0	76.0	61.0
27.5°	390.4	389.5	370.7	339.7	298.4	250.6	196.2	153.0	120.1	85.4	68.5
30°	430.8	428.0	408.3	373.5	328.5	275.0	215.9	168.9	132.3	94.8	76.0
32.5°	471.1	469.3	446.7	408.3	360.4	301.3	238.4	184.9	145.5	103.2	82.6
35°	511.5	509.6	485.2	443.9	390.4	326.6	259.0	200.8	157.7	112.6	90.1
37.5°	549.0	546.2	519.9	477.7	419.5	351.9	279.7	215.9	169.9	122.0	97.6
40°	590.3	585.6	558.4	511.5	449.6	376.3	300.3	232.8	183.0	131.4	105.1
42.5°	627.9	623.2	593.1	544.3	478.6	401.7	321.0	248.7	195.2	139.8	112.6
45°	663.5	660.7	627.9	576.3	507.7	426.1	340.7	264.7	206.5	148.3	119.2
47.5°	699.2	695.4	661.7	607.2	535.0	449.6	359.5	279.7	218.7	157.7	125.8
50°	734.9	730.2	695.4	638.2	562.2	473.0	377.3	294.7	229.9	165.2	132.3
52.5°	767.7	764.0	727.4	667.3	588.5	494.6	396.1	308.8	243.1	173.6	138.9
55°	798.7	794.0	756.4	694.5	611.9	515.2	412.9	322.9	254.3	181.1	145.5
57.5°	828.7	824.0	785.5	720.8	636.3	535.0	428.0	335.1	264.7	188.6	151.1
60°	855.9	852.2	811.8	746.1	657.9	553.7	443.0	347.3	273.1	195.2	155.8
62.5°	883.1	877.5	836.2	768.6	677.6	571.6	457.1	358.5	281.6	200.8	161.4
65°	906.6	901.0	858.7	790.2	696.4	588.5	470.2	368.8	290.9	206.5	166.1
67.5°	928.2	922.6	880.3	809.9	713.3	602.5	482.4	378.2	297.5	213.0	170.8
70°	949.8	944.1	900.0	827.8	730.2	616.6	493.7	386.7	305.0	217.7	174.6
72.5°	967.6	962.0	916.9	842.8	745.2	628.8	504.0	395.1	311.6	222.4	178.3
75°	982.6	977.0	931.9	856.9	757.4	640.1	513.4	401.7	317.2	226.2	182.1
77.5°	995.8	990.1	944.1	869.1	768.6	649.5	520.9	407.3	321.9	229.0	184.9
80°	1007.0	1002.3	955.4	878.5	777.1	657.0	527.4	412.9	325.7	233.7	186.8
82.5°	1016.4	1009.8	962.9	886.9	783.7	662.6	532.1	415.8	329.4	235.6	188.6
85°	1022.0	1015.5	968.6	891.6	788.4	667.3	535.9	418.6	331.3	237.4	189.6
87.5°	1025.8	1019.2	972.3	896.3	791.2	670.1	537.8	420.5	332.2	238.4	190.5
90°	1023.9	1017.4	971.4	893.5	791.2	669.2	536.8	419.5	331.3	238.4	190.5
92.5°	1023.0	1016.4	970.4	892.5	790.2	669.2	537.8	420.5	331.3	238.4	190.5
93°	1023.0	1017.4	970.4	892.5	790.2	669.2	537.8	420.5	331.3	237.4	190.5
95°	1023.0	1015.5	969.5	892.5	789.3	668.2	536.8	421.4	331.3	238.4	190.5
97.5°	1020.2	1013.6	967.6	889.7	787.4	666.3	535.9	419.5	330.4	236.5	189.6
100°	1014.5	1008.9	962.9	885.0	783.7	662.6	533.1	417.6	328.5	234.6	188.6
102.5°	1006.1	1000.5	955.4	878.5	777.1	657.0	527.4	413.9	326.6	232.8	186.8
105°	995.8	990.1	945.1	869.1	768.6	649.5	521.8	409.2	321.9	229.9	183.9
107.5°	982.6	977.0	931.9	856.9	758.3	640.1	515.2	402.6	317.2	226.2	182.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	967.6	962.0	917.9	843.7	746.1	629.7	505.9	396.1	311.6	223.4	179.3
112.5°	950.7	945.1	901.9	828.7	733.0	618.5	496.5	389.5	306.0	218.7	175.5
115°	931.0	925.4	883.1	810.9	717.0	605.3	486.2	380.1	298.4	214.0	171.7
117.5°	909.4	903.8	862.5	791.2	699.2	590.3	474.0	371.7	291.9	208.4	167.1
120°	885.0	880.3	838.1	769.6	679.5	573.4	460.8	361.3	283.4	202.7	162.4
122.5°	859.7	855.0	815.6	747.1	659.8	556.5	446.7	350.1	275.0	196.2	157.7
125°	832.5	827.8	788.4	722.7	639.1	538.7	431.7	337.9	265.6	188.6	152.0
127.5°	803.4	797.7	759.3	698.3	615.7	519.0	415.8	325.7	256.2	182.1	146.4
130°	771.5	766.8	730.2	669.2	591.3	497.4	398.9	312.5	243.1	175.5	139.8
132.5°	737.7	733.0	698.3	641.0	564.0	474.9	381.0	297.5	231.8	167.1	133.3
135°	703.9	699.2	666.3	611.9	538.7	452.4	362.3	283.4	220.6	158.6	126.7
137.5°	668.2	663.5	632.6	580.9	511.5	428.9	343.5	268.4	209.3	149.2	120.1
140°	629.7	626.0	596.0	547.2	482.4	404.5	322.9	251.5	196.2	140.8	112.6
142.5°	592.2	587.5	558.4	514.3	452.4	380.1	304.1	234.6	183.0	132.3	106.1
145°	551.8	548.1	521.8	478.6	422.3	352.9	282.5	218.7	170.8	122.9	98.5
147.5°	510.6	507.7	484.3	443.9	390.4	326.6	260.9	201.8	157.7	113.6	91.0
150°	469.3	466.4	445.8	407.3	359.5	300.3	237.4	184.9	144.5	103.2	83.5
152.5°	426.1	424.2	404.5	371.7	326.6	273.1	215.9	168.0	131.4	93.9	75.1
155°	383.9	382.0	364.1	334.1	294.7	244.0	195.2	152.0	117.3	84.5	67.6
157.5°	339.7	338.8	322.9	297.5	261.8	215.9	172.7	134.2	104.2	74.1	60.1
160°	297.5	295.6	282.5	258.1	227.1	188.6	151.1	117.3	90.1	64.8	51.6
162.5°	254.3	252.5	238.4	220.6	193.3	160.5	128.6	100.4	77.9	56.3	44.1
165°	209.3	207.4	198.0	183.9	161.4	134.2	107.0	83.5	63.8	46.0	37.5
167.5°	167.1	166.1	158.6	147.3	128.6	107.9	86.3	66.6	50.7	37.5	29.1
170°	126.7	125.8	120.1	111.7	98.5	82.6	65.7	50.7	39.4	28.2	22.5
172.5°	88.2	86.3	83.5	77.9	68.5	58.2	46.0	36.6	27.2	20.6	16.9
175°	53.5	52.6	48.8	46.9	41.3	34.7	28.2	22.5	16.9	12.2	9.4
177.5°	20.6	19.7	18.8	18.8	16.0	13.1	11.3	8.4	6.6	4.7	4.7
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°	4.7	3.8	3.8	2.8	2.8	1.9	0.9	0.9	0.0	0.0
5°	6.6	5.6	3.8	2.8	2.8	1.9	0.9	0.9	0.0	0.0
7.5°	10.3	6.6	4.7	3.8	2.8	1.9	0.9	0.9	0.0	0.0
10°	15.0	8.4	5.6	3.8	2.8	1.9	0.9	0.9	0.0	0.0
12.5°	20.6	10.3	5.6	3.8	2.8	1.9	0.9	0.9	0.0	0.0
15°	25.3	13.1	6.6	3.8	1.9	1.9	0.9	0.9	0.0	0.0
17.5°	30.0	16.0	7.5	3.8	1.9	1.9	0.9	0.9	0.0	0.0
20°	35.7	18.8	8.4	3.8	1.9	1.9	0.9	0.9	0.0	0.0
22.5°	41.3	21.6	9.4	4.7	1.9	1.9	0.9	0.9	0.0	0.0
25°	46.9	24.4	10.3	4.7	1.9	1.9	0.9	0.0	0.0	0.0
27.5°	52.6	27.2	12.2	4.7	1.9	1.9	0.9	0.9	0.0	0.0
30°	58.2	30.0	12.2	4.7	1.9	1.9	0.9	0.9	0.0	0.0
32.5°	63.8	32.8	14.1	5.6	1.9	1.9	0.9	0.9	0.0	0.0
35°	69.5	36.6	15.0	5.6	1.9	1.9	0.9	0.9	0.0	0.0
37.5°	75.1	38.5	16.0	5.6	1.9	1.9	0.9	0.9	0.0	0.0
40°	80.7	41.3	17.8	5.6	1.9	1.9	0.9	0.9	0.0	0.0
42.5°	86.3	45.0	18.8	6.6	1.9	1.9	0.9	0.9	0.0	0.0
45°	92.0	47.9	19.7	6.6	1.9	1.9	0.9	0.9	0.0	0.0
47.5°	97.6	49.7	21.6	6.6	2.8	1.9	0.9	0.9	0.0	0.0
50°	102.3	52.6	22.5	7.5	2.8	1.9	0.9	0.9	0.0	0.0
52.5°	107.0	55.4	23.5	7.5	2.8	1.9	0.9	0.9	0.9	0.9
55°	111.7	58.2	24.4	8.4	2.8	1.9	1.9	0.9	0.9	0.9
57.5°	116.4	60.1	25.3	8.4	2.8	1.9	1.9	0.9	0.9	0.9
60°	120.1	62.9	26.3	9.4	2.8	1.9	1.9	0.9	0.9	0.9
62.5°	123.9	64.8	27.2	9.4	2.8	1.9	1.9	0.9	0.9	0.9
65°	127.6	67.6	28.2	9.4	2.8	1.9	1.9	1.9	1.9	1.9
67.5°	130.5	69.5	29.1	10.3	2.8	1.9	1.9	1.9	1.9	1.9
70°	134.2	71.3	30.0	10.3	2.8	2.8	1.9	1.9	1.9	1.9
72.5°	137.0	72.3	31.0	10.3	2.8	2.8	1.9	1.9	1.9	1.9
75°	139.8	74.1	31.9	10.3	2.8	2.8	2.8	1.9	1.9	1.9
77.5°	141.7	75.1	31.9	11.3	2.8	2.8	2.8	2.8	2.8	1.9
80°	143.6	76.0	32.8	11.3	2.8	2.8	2.8	2.8	1.9	1.9
82.5°	145.5	76.0	32.8	11.3	3.8	2.8	2.8	2.8	2.8	2.8
85°	146.4	77.9	33.8	11.3	3.8	2.8	2.8	2.8	2.8	2.8
87.5°	147.3	77.9	33.8	11.3	3.8	2.8	2.8	2.8	2.8	2.8
90°	146.4	77.9	33.8	11.3	3.8	2.8	2.8	2.8	2.8	2.8
92.5°	147.3	77.9	33.8	11.3	3.8	2.8	2.8	2.8	2.8	2.8
93°	147.3	77.9	33.8	11.3	3.8	2.8	2.8	2.8	2.8	2.8
95°	147.3	77.9	33.8	11.3	3.8	2.8	2.8	2.8	2.8	2.8
97.5°	146.4	77.9	33.8	11.3	3.8	2.8	2.8	2.8	2.8	2.8
100°	145.5	77.0	33.8	11.3	3.8	2.8	2.8	2.8	2.8	2.8
102.5°	144.5	77.0	33.8	11.3	3.8	2.8	2.8	2.8	2.8	2.8
105°	142.7	76.0	32.8	11.3	3.8	2.8	1.9	2.8	1.9	2.8
107.5°	140.8	74.1	32.8	10.3	2.8	2.8	1.9	1.9	1.9	1.9



TEST NUMBER: P368744

CATALOG NUMBER: 674-W-55-L5/830

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	138.0	73.2	31.9	10.3	2.8	2.8	1.9	1.9	1.9	1.9
112.5°	136.1	71.3	31.0	10.3	2.8	1.9	1.9	1.9	1.9	1.9
115°	132.3	69.5	30.0	9.4	2.8	1.9	1.9	1.9	1.9	1.9
117.5°	129.5	68.5	30.0	9.4	2.8	1.9	1.9	1.9	1.9	1.9
120°	125.8	66.6	29.1	9.4	2.8	1.9	1.9	1.9	1.9	1.9
122.5°	121.1	64.8	28.2	8.4	2.8	1.9	1.9	0.9	0.9	0.9
125°	117.3	61.9	27.2	8.4	1.9	1.9	1.9	0.9	0.9	0.9
127.5°	112.6	60.1	26.3	8.4	1.9	1.9	1.9	0.9	0.9	0.9
130°	107.9	57.2	24.4	7.5	1.9	1.9	1.9	0.9	0.9	0.9
132.5°	103.2	54.4	23.5	7.5	1.9	1.9	0.9	0.9	0.9	0.9
135°	97.6	51.6	22.5	6.6	1.9	1.9	0.9	0.9	0.9	0.9
137.5°	92.9	48.8	21.6	6.6	1.9	1.9	0.9	0.9	0.0	0.0
140°	87.3	46.0	19.7	5.6	1.9	1.9	0.9	0.9	0.0	0.0
142.5°	81.7	43.2	18.8	5.6	1.9	1.9	0.9	0.9	0.0	0.0
145°	76.0	40.4	17.8	5.6	1.9	1.9	0.9	0.9	0.0	0.0
147.5°	70.4	36.6	16.0	4.7	1.9	1.9	0.9	0.9	0.0	0.0
150°	64.8	33.8	15.0	4.7	1.9	1.9	0.9	0.9	0.0	0.0
152.5°	59.1	30.0	14.1	3.8	1.9	1.9	0.9	0.9	0.0	0.0
155°	52.6	27.2	12.2	3.8	1.9	1.9	0.9	0.9	0.0	0.0
157.5°	46.9	24.4	10.3	3.8	1.9	1.9	0.9	0.9	0.0	0.0
160°	40.4	21.6	9.4	3.8	1.9	1.9	0.9	0.9	0.0	0.0
162.5°	34.7	18.8	8.4	2.8	1.9	1.9	0.9	0.9	0.0	0.0
165°	28.2	16.0	6.6	2.8	1.9	1.9	0.9	0.9	0.0	0.0
167.5°	23.5	13.1	5.6	2.8	2.8	1.9	0.9	0.9	0.0	0.0
170°	17.8	9.4	4.7	2.8	2.8	1.9	0.9	0.9	0.0	0.0
172.5°	13.1	7.5	4.7	2.8	2.8	1.9	0.9	0.9	0.0	0.0
175°	7.5	4.7	3.8	2.8	2.8	1.9	1.9	0.9	0.0	0.0
177.5°	4.7	3.8	3.8	3.8	2.8	1.9	1.9	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)