

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: P368745

Luminaire Tested: **674-W-55-L5/835**

Issue Date: 11/13/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P368745  
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-L5/835  
Description: 55" 674 SERIES LUMINOUS WALL SCONCE  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

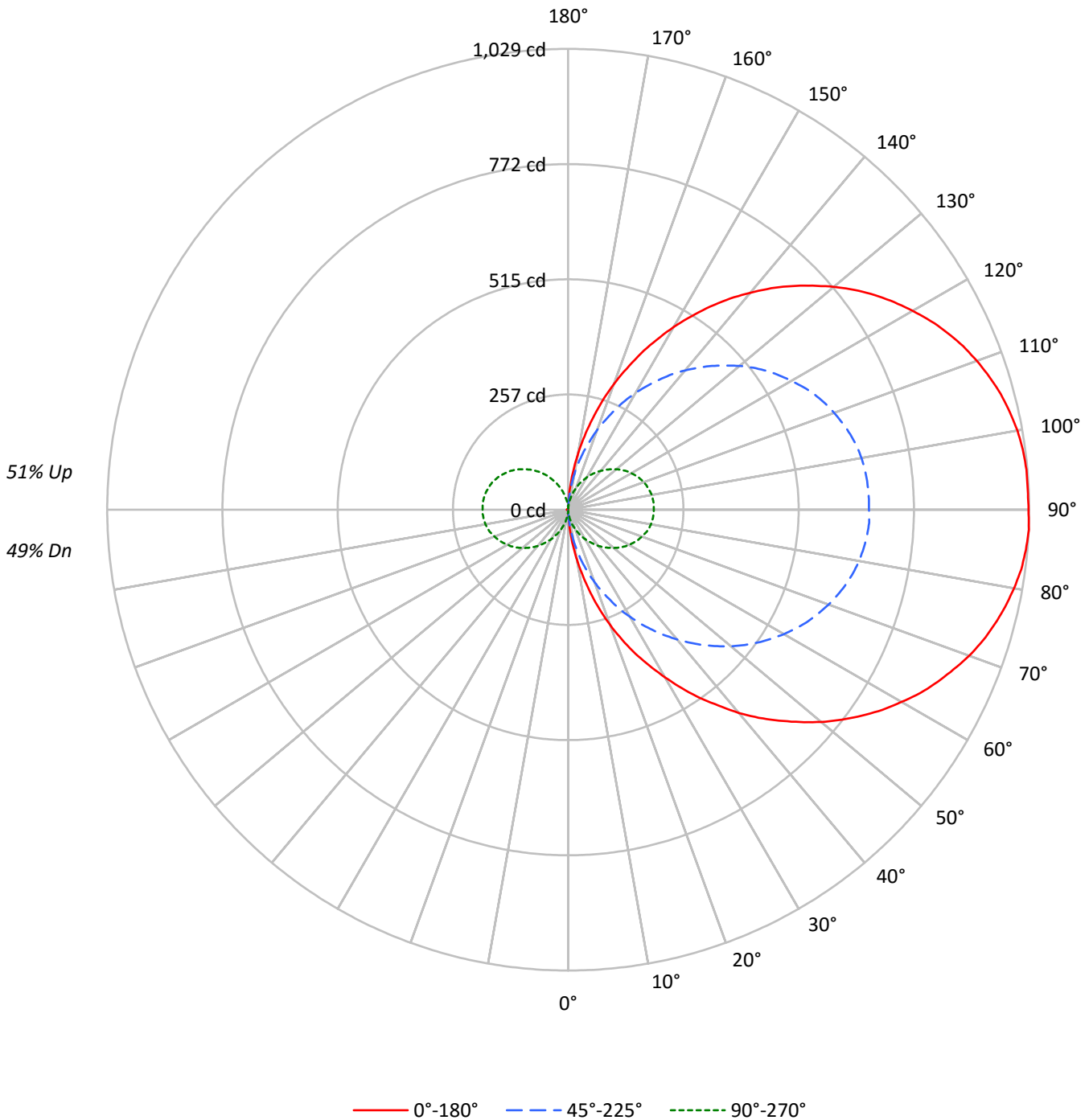
Lumens per Lamp: N/A  
Luminaire Lumens: 3267.5 lumens  
Efficiency: N/A  
Efficacy: 76.5 lumens/watt  
Spacing Criteria (0/90/45): 14.14 / 10.01 / 10.98  
Luminous Opening: Rectangular w/ Sides (W: 0.71' x L: 0.21' x H: 4.58')  
CIE Type: General Diffuse

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°	1202	397	0
10°	1731	685	0
15°	2104	912	0
20°	2362	1090	0
25°	2538	1226	0
30°	2657	1357	0
35°	2786	1455	0
40°	2899	1562	0
45°	2987	1651	0
50°	3074	1730	0
55°	3144	1813	4
60°	3204	1868	3
65°	3259	1934	7
70°	3308	1990	7
75°	3344	2047	6
80°	3375	2088	6
85°	3400	2124	9



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.2	0.1
10°-20°	18.6	0.6
20°-30°	54.1	1.7
30°-40°	106.1	3.2
40°-50°	170.0	5.2
50°-60°	237.8	7.3
60°-70°	299.4	9.2
70°-80°	346.9	10.6
80°-90°	372.6	11.4
90°-100°	373.5	11.4
100°-110°	352.2	10.8
110°-120°	308.1	9.4
120°-130°	248.2	7.6
130°-140°	180.6	5.5
140°-150°	114.8	3.5
150°-160°	59.3	1.8
160°-170°	20.6	0.6
170°-180°	2.5	0.1
0°-30°	74.9	2.3
0°-40°	181.0	5.5
0°-60°	588.9	18.0
0°-90°	1607.8	49.2
90°-120°	1033.8	31.6
90°-150°	1577.4	48.3
90°-180°	1660.0	50.8
0°-180°	3267.5	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	122	33	2	0	57
25°	355	223	61	2	0	166
35°	513	328	90	2	0	324
45°	666	428	120	2	0	517
55°	802	517	146	3	1	719
65°	910	590	167	3	2	902
75°	986	642	183	3	2	1042
85°	1026	670	190	4	3	835
90°	1028	672	191	4	3	563
95°	1027	671	191	4	3	837
105°	999	652	185	4	3	1055
115°	934	608	172	3	2	926
125°	835	541	153	2	1	749
135°	706	454	127	2	1	548
145°	554	354	99	2	0	349
155°	385	245	68	2	0	180
165°	210	135	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°	17.0	15.1	14.1	13.2	11.3	9.4	8.5	6.6	5.7	4.7	4.7
5°	48.0	46.1	44.3	41.4	34.8	29.2	23.5	18.8	14.1	9.4	8.5
7.5°	80.1	78.2	74.4	68.8	60.3	49.9	39.6	31.1	24.5	17.0	13.2
10°	114.0	112.1	108.3	99.8	86.6	72.5	57.5	45.2	34.8	24.5	19.8
12.5°	151.6	149.7	143.2	131.9	114.9	96.1	76.3	59.3	47.1	32.0	26.4
15°	192.1	189.3	181.8	166.7	145.0	121.5	96.1	74.4	58.4	41.4	33.0
17.5°	232.6	231.7	217.6	200.6	175.2	146.9	115.8	90.4	70.6	49.9	39.6
20°	274.1	272.2	258.1	238.3	206.3	172.4	135.6	106.4	82.9	58.4	47.1
22.5°	313.6	312.7	295.7	271.2	239.2	197.8	157.3	122.4	95.1	67.8	53.7
25°	355.1	351.3	334.3	306.1	269.4	223.2	177.1	138.4	107.4	76.3	61.2
27.5°	391.8	390.9	372.0	340.9	299.5	251.5	196.8	153.5	120.6	85.7	68.8
30°	432.3	429.5	409.7	374.8	329.6	276.0	216.6	169.5	132.8	95.1	76.3
32.5°	472.8	470.9	448.3	409.7	361.7	302.3	239.2	185.5	146.0	103.6	82.9
35°	513.3	511.4	486.9	445.5	391.8	327.8	259.9	201.5	158.2	113.0	90.4
37.5°	551.0	548.1	521.8	479.4	421.0	353.2	280.7	216.6	170.5	122.4	97.9
40°	592.4	587.7	560.4	513.3	451.1	377.7	301.4	233.6	183.7	131.9	105.5
42.5°	630.1	625.4	595.2	546.3	480.3	403.1	322.1	249.6	195.9	140.3	113.0
45°	665.9	663.0	630.1	578.3	509.5	427.6	341.9	265.6	207.2	148.8	119.6
47.5°	701.7	697.9	664.0	609.4	536.8	451.1	360.7	280.7	219.4	158.2	126.2
50°	737.4	732.7	697.9	640.4	564.1	474.7	378.6	295.7	230.7	165.8	132.8
52.5°	770.4	766.6	729.9	669.6	590.5	496.3	397.4	309.9	243.9	174.2	139.4
55°	801.5	796.8	759.1	696.9	614.1	517.1	414.4	324.0	255.2	181.8	146.0
57.5°	831.6	826.9	788.3	723.3	638.6	536.8	429.5	336.2	265.6	189.3	151.6
60°	858.9	855.2	814.7	748.7	660.2	555.7	444.5	348.5	274.1	195.9	156.3
62.5°	886.3	880.6	839.2	771.3	680.0	573.6	458.7	359.8	282.5	201.5	162.0
65°	909.8	904.1	861.8	793.0	698.8	590.5	471.9	370.1	292.0	207.2	166.7
67.5°	931.5	925.8	883.4	812.8	715.8	604.6	484.1	379.6	298.6	213.8	171.4
70°	953.1	947.5	903.2	830.7	732.7	618.8	495.4	388.0	306.1	218.5	175.2
72.5°	971.0	965.4	920.2	845.8	747.8	631.0	505.8	396.5	312.7	223.2	178.9
75°	986.1	980.4	935.2	859.9	760.0	642.3	515.2	403.1	318.3	227.0	182.7
77.5°	999.3	993.6	947.5	872.1	771.3	651.7	522.7	408.7	323.0	229.8	185.5
80°	1010.6	1005.9	958.8	881.5	779.8	659.3	529.3	414.4	326.8	234.5	187.4
82.5°	1020.0	1013.4	966.3	890.0	786.4	664.9	534.0	417.2	330.6	236.4	189.3
85°	1025.6	1019.0	972.0	894.7	791.1	669.6	537.8	420.1	332.5	238.3	190.2
87.5°	1029.4	1022.8	975.7	899.4	794.0	672.5	539.7	421.9	333.4	239.2	191.2
90°	1027.5	1020.9	974.8	896.6	794.0	671.5	538.7	421.0	332.5	239.2	191.2
92.5°	1026.6	1020.0	973.8	895.7	793.0	671.5	539.7	421.9	332.5	239.2	191.2
93°	1026.6	1020.9	973.8	895.7	793.0	671.5	539.7	421.9	332.5	238.3	191.2
95°	1026.6	1019.0	972.9	895.7	792.1	670.6	538.7	422.9	332.5	239.2	191.2
97.5°	1023.8	1017.2	971.0	892.8	790.2	668.7	537.8	421.0	331.5	237.3	190.2
100°	1018.1	1012.5	966.3	888.1	786.4	664.9	535.0	419.1	329.6	235.5	189.3
102.5°	1009.6	1004.0	958.8	881.5	779.8	659.3	529.3	415.3	327.8	233.6	187.4
105°	999.3	993.6	948.4	872.1	771.3	651.7	523.7	410.6	323.0	230.7	184.6
107.5°	986.1	980.4	935.2	859.9	761.0	642.3	517.1	404.0	318.3	227.0	182.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	971.0	965.4	921.1	846.7	748.7	632.0	507.6	397.4	312.7	224.2	179.9
112.5°	954.1	948.4	905.1	831.6	735.6	620.7	498.2	390.9	307.0	219.4	176.1
115°	934.3	928.6	886.3	813.7	719.5	607.5	487.9	381.4	299.5	214.7	172.4
117.5°	912.6	907.0	865.5	794.0	701.7	592.4	475.6	373.0	292.9	209.1	167.6
120°	888.1	883.4	841.0	772.3	681.9	575.5	462.4	362.6	284.4	203.4	162.9
122.5°	862.7	858.0	818.4	749.7	662.1	558.5	448.3	351.3	276.0	196.8	158.2
125°	835.4	830.7	791.1	725.2	641.4	540.6	433.2	339.1	266.5	189.3	152.6
127.5°	806.2	800.5	761.9	700.7	617.8	520.8	417.2	326.8	257.1	182.7	146.9
130°	774.2	769.5	732.7	671.5	593.3	499.2	400.3	313.6	243.9	176.1	140.3
132.5°	740.3	735.6	700.7	643.3	566.0	476.6	382.4	298.6	232.6	167.6	133.7
135°	706.4	701.7	668.7	614.1	540.6	454.0	363.5	284.4	221.3	159.2	127.1
137.5°	670.6	665.9	634.8	583.0	513.3	430.4	344.7	269.4	210.0	149.7	120.6
140°	632.0	628.2	598.1	549.1	484.1	405.9	324.0	252.4	196.8	141.3	113.0
142.5°	594.3	589.6	560.4	516.1	454.0	381.4	305.1	235.5	183.7	132.8	106.4
145°	553.8	550.0	523.7	480.3	423.8	354.1	283.5	219.4	171.4	123.4	98.9
147.5°	512.3	509.5	486.0	445.5	391.8	327.8	261.8	202.5	158.2	114.0	91.4
150°	470.9	468.1	447.4	408.7	360.7	301.4	238.3	185.5	145.0	103.6	83.8
152.5°	427.6	425.7	405.9	373.0	327.8	274.1	216.6	168.6	131.9	94.2	75.3
155°	385.2	383.3	365.4	335.3	295.7	244.9	195.9	152.6	117.7	84.8	67.8
157.5°	340.9	340.0	324.0	298.6	262.8	216.6	173.3	134.7	104.5	74.4	60.3
160°	298.6	296.7	283.5	259.0	227.9	189.3	151.6	117.7	90.4	65.0	51.8
162.5°	255.2	253.3	239.2	221.3	194.0	161.1	129.0	100.8	78.2	56.5	44.3
165°	210.0	208.1	198.7	184.6	162.0	134.7	107.4	83.8	64.0	46.1	37.7
167.5°	167.6	166.7	159.2	147.9	129.0	108.3	86.6	66.9	50.9	37.7	29.2
170°	127.1	126.2	120.6	112.1	98.9	82.9	65.9	50.9	39.6	28.3	22.6
172.5°	88.5	86.6	83.8	78.2	68.8	58.4	46.1	36.7	27.3	20.7	17.0
175°	53.7	52.7	49.0	47.1	41.4	34.8	28.3	22.6	17.0	12.2	9.4
177.5°	20.7	19.8	18.8	18.8	16.0	13.2	11.3	8.5	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	5.7	3.8	2.8	2.8	1.9	0.9	0.9	0.0	0.0
7.5°	10.4	6.6	4.7	3.8	2.8	1.9	0.9	0.9	0.0	0.0
10°	15.1	8.5	5.7	3.8	2.8	1.9	0.9	0.9	0.0	0.0
12.5°	20.7	10.4	5.7	3.8	2.8	1.9	0.9	0.9	0.0	0.0
15°	25.4	13.2	6.6	3.8	1.9	1.9	0.9	0.9	0.0	0.0
17.5°	30.1	16.0	7.5	3.8	1.9	1.9	0.9	0.9	0.0	0.0
20°	35.8	18.8	8.5	3.8	1.9	1.9	0.9	0.9	0.0	0.0
22.5°	41.4	21.7	9.4	4.7	1.9	1.9	0.9	0.9	0.0	0.0
25°	47.1	24.5	10.4	4.7	1.9	1.9	0.9	0.0	0.0	0.0
27.5°	52.7	27.3	12.2	4.7	1.9	1.9	0.9	0.9	0.0	0.0
30°	58.4	30.1	12.2	4.7	1.9	1.9	0.9	0.9	0.0	0.0
32.5°	64.0	33.0	14.1	5.7	1.9	1.9	0.9	0.9	0.0	0.0
35°	69.7	36.7	15.1	5.7	1.9	1.9	0.9	0.9	0.0	0.0
37.5°	75.3	38.6	16.0	5.7	1.9	1.9	0.9	0.9	0.0	0.0
40°	81.0	41.4	17.9	5.7	1.9	1.9	0.9	0.9	0.0	0.0
42.5°	86.6	45.2	18.8	6.6	1.9	1.9	0.9	0.9	0.0	0.0
45°	92.3	48.0	19.8	6.6	1.9	1.9	0.9	0.9	0.0	0.0
47.5°	97.9	49.9	21.7	6.6	2.8	1.9	0.9	0.9	0.0	0.0
50°	102.7	52.7	22.6	7.5	2.8	1.9	0.9	0.9	0.0	0.0
52.5°	107.4	55.6	23.5	7.5	2.8	1.9	0.9	0.9	0.9	0.9
55°	112.1	58.4	24.5	8.5	2.8	1.9	1.9	0.9	0.9	0.9
57.5°	116.8	60.3	25.4	8.5	2.8	1.9	1.9	0.9	0.9	0.9
60°	120.6	63.1	26.4	9.4	2.8	1.9	1.9	0.9	0.9	0.9
62.5°	124.3	65.0	27.3	9.4	2.8	1.9	1.9	0.9	0.9	0.9
65°	128.1	67.8	28.3	9.4	2.8	1.9	1.9	1.9	1.9	1.9
67.5°	130.9	69.7	29.2	10.4	2.8	1.9	1.9	1.9	1.9	1.9
70°	134.7	71.6	30.1	10.4	2.8	2.8	1.9	1.9	1.9	1.9
72.5°	137.5	72.5	31.1	10.4	2.8	2.8	1.9	1.9	1.9	1.9
75°	140.3	74.4	32.0	10.4	2.8	2.8	2.8	1.9	1.9	1.9
77.5°	142.2	75.3	32.0	11.3	2.8	2.8	2.8	2.8	2.8	1.9
80°	144.1	76.3	33.0	11.3	2.8	2.8	2.8	2.8	1.9	1.9
82.5°	146.0	76.3	33.0	11.3	3.8	2.8	2.8	2.8	2.8	2.8
85°	146.9	78.2	33.9	11.3	3.8	2.8	2.8	2.8	2.8	2.8
87.5°	147.9	78.2	33.9	11.3	3.8	2.8	2.8	2.8	2.8	2.8
90°	146.9	78.2	33.9	11.3	3.8	2.8	2.8	2.8	2.8	2.8
92.5°	147.9	78.2	33.9	11.3	3.8	2.8	2.8	2.8	2.8	2.8
93°	147.9	78.2	33.9	11.3	3.8	2.8	2.8	2.8	2.8	2.8
95°	147.9	78.2	33.9	11.3	3.8	2.8	2.8	2.8	2.8	2.8
97.5°	146.9	78.2	33.9	11.3	3.8	2.8	2.8	2.8	2.8	2.8
100°	146.0	77.2	33.9	11.3	3.8	2.8	2.8	2.8	2.8	2.8
102.5°	145.0	77.2	33.9	11.3	3.8	2.8	2.8	2.8	2.8	2.8
105°	143.2	76.3	33.0	11.3	3.8	2.8	1.9	2.8	1.9	2.8
107.5°	141.3	74.4	33.0	10.4	2.8	2.8	1.9	1.9	1.9	1.9





TEST NUMBER: P368745

CATALOG NUMBER: 674-W-55-L5/835

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	138.4	73.5	32.0	10.4	2.8	2.8	1.9	1.9	1.9	1.9
112.5°	136.6	71.6	31.1	10.4	2.8	1.9	1.9	1.9	1.9	1.9
115°	132.8	69.7	30.1	9.4	2.8	1.9	1.9	1.9	1.9	1.9
117.5°	130.0	68.8	30.1	9.4	2.8	1.9	1.9	1.9	1.9	1.9
120°	126.2	66.9	29.2	9.4	2.8	1.9	1.9	1.9	1.9	1.9
122.5°	121.5	65.0	28.3	8.5	2.8	1.9	1.9	0.9	0.9	0.9
125°	117.7	62.2	27.3	8.5	1.9	1.9	1.9	0.9	0.9	0.9
127.5°	113.0	60.3	26.4	8.5	1.9	1.9	1.9	0.9	0.9	0.9
130°	108.3	57.5	24.5	7.5	1.9	1.9	1.9	0.9	0.9	0.9
132.5°	103.6	54.6	23.5	7.5	1.9	1.9	0.9	0.9	0.9	0.9
135°	97.9	51.8	22.6	6.6	1.9	1.9	0.9	0.9	0.9	0.9
137.5°	93.2	49.0	21.7	6.6	1.9	1.9	0.9	0.9	0.0	0.0
140°	87.6	46.1	19.8	5.7	1.9	1.9	0.9	0.9	0.0	0.0
142.5°	81.9	43.3	18.8	5.7	1.9	1.9	0.9	0.9	0.0	0.0
145°	76.3	40.5	17.9	5.7	1.9	1.9	0.9	0.9	0.0	0.0
147.5°	70.6	36.7	16.0	4.7	1.9	1.9	0.9	0.9	0.0	0.0
150°	65.0	33.9	15.1	4.7	1.9	1.9	0.9	0.9	0.0	0.0
152.5°	59.3	30.1	14.1	3.8	1.9	1.9	0.9	0.9	0.0	0.0
155°	52.7	27.3	12.2	3.8	1.9	1.9	0.9	0.9	0.0	0.0
157.5°	47.1	24.5	10.4	3.8	1.9	1.9	0.9	0.9	0.0	0.0
160°	40.5	21.7	9.4	3.8	1.9	1.9	0.9	0.9	0.0	0.0
162.5°	34.8	18.8	8.5	2.8	1.9	1.9	0.9	0.9	0.0	0.0
165°	28.3	16.0	6.6	2.8	1.9	1.9	0.9	0.9	0.0	0.0
167.5°	23.5	13.2	5.7	2.8	2.8	1.9	0.9	0.9	0.0	0.0
170°	17.9	9.4	4.7	2.8	2.8	1.9	0.9	0.9	0.0	0.0
172.5°	13.2	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)