

Scaled data based on original data using
LM-66-11 Electrical and Photometric Measurements of Single-Ended Compact
Fluorescent Lamps

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: SHAPER

Report Number: 253P153

Luminaire Tested: **1270-44-CFL/4/39**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 253P153
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 1270-44-CFL/4/39
Description: SHAPER 44 INCH 1270 SERIES SOLID INDIRECT INTERIOR PENDANT FIXTURE
Light Source: FOUR 39 WATT GX24 T4 COMPACT FLUORESCENT LAMPS
(4)F39BX - 2850 LUMENS - 39 WATTS
THIS FILE WAS PRORATED FROM TEST NO: 253P153
Ballast/Driver: -

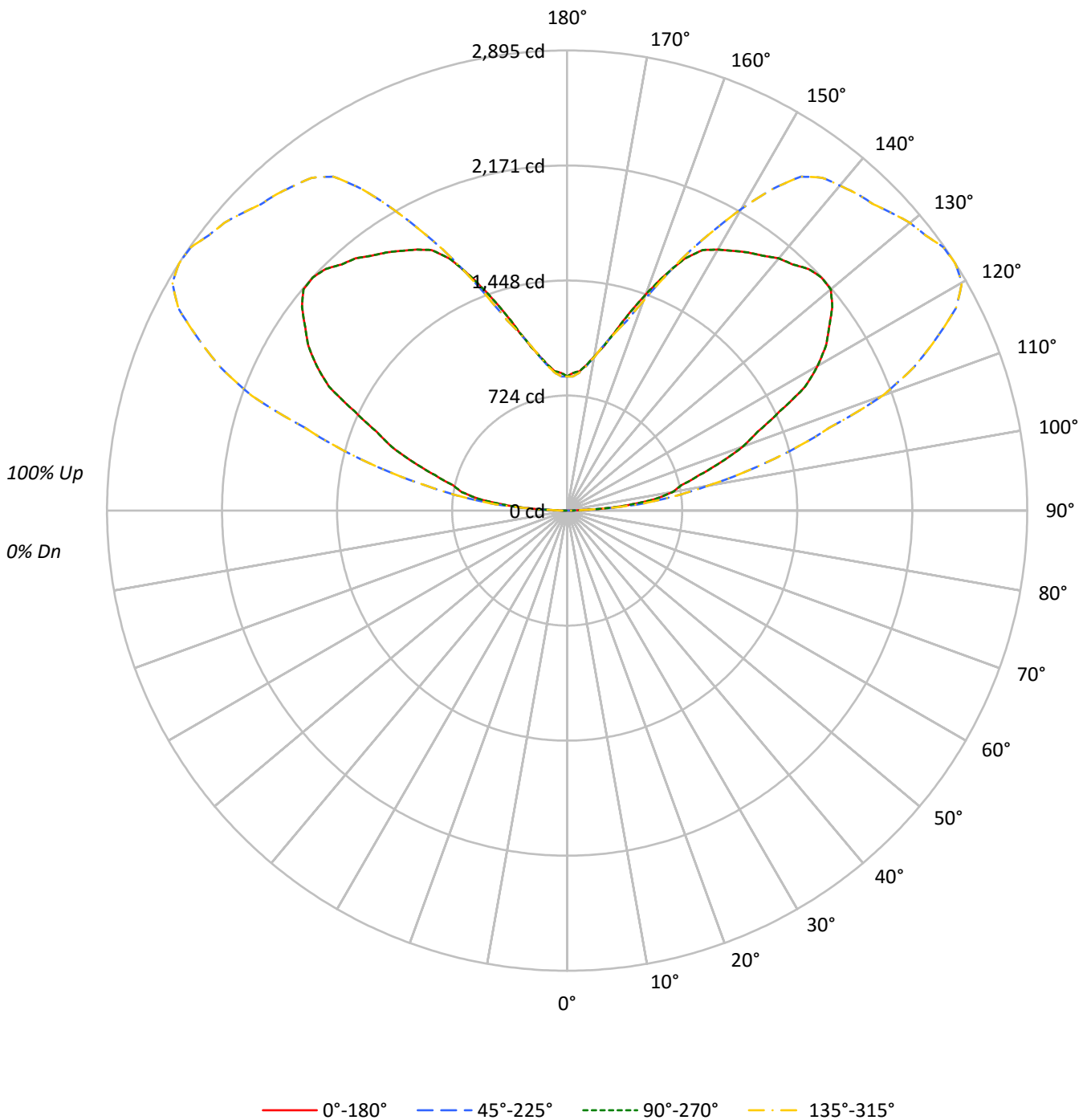
Summary

Lumens per Lamp: 2850 (4 lamps)
Luminaire Lumens: 10626.1 lumens
Efficiency: 93.2%
Efficacy: 68.1 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Vertical Cylinder (Dia: 3.67' x H: 0.1')
CIE Type: Indirect

Input Watts (W): 156
Input Voltage (V): NR
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: 253P153
CATALOG NUMBER: 1270-44-CFL/4/39

Luminous Intensity Polar Plot





TEST NUMBER: 253P153

CATALOG NUMBER: 1270-44-CFL/4/39

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	89	89	89	89	76	76	76	76	52	52	52	30	30	30	10	10	10	0
1	81	77	74	71	69	66	63	61	45	43	42	26	25	24	8	8	8	0
2	73	67	62	58	62	57	53	50	39	37	35	23	21	20	7	7	7	0
3	67	59	53	48	57	50	45	41	35	32	29	20	18	17	6	6	6	0
4	61	52	45	40	52	44	39	35	31	27	24	18	16	14	6	5	5	0
5	56	46	39	34	47	39	34	29	27	24	21	16	14	12	5	5	4	0
6	51	41	34	29	43	35	29	25	24	21	18	14	12	11	5	4	4	0
7	47	37	30	25	40	31	26	22	22	18	15	13	11	9	4	3	3	0
8	43	33	26	22	37	28	23	19	20	16	13	11	9	8	4	3	3	0
9	40	30	23	19	34	26	20	17	18	14	12	10	8	7	3	3	2	0
10	37	27	21	17	32	23	18	15	16	13	10	9	8	6	3	2	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	0	0	0	0
5°	0	0	0	0
10°	0	0	0	0
15°	0	0	0	0
20°	0	0	0	0
25°	0	0	0	0
30°	0	0	0	0
35°	0	0	0	0
40°	0	0	0	0
45°	0	0	0	0
50°	0	0	0	0
55°	0	0	0	0
60°	0	0	0	0
65°	0	0	0	0
70°	0	0	0	0
75°	0	0	0	0
80°	0	0	0	0
85°	0	0	0	0



TEST NUMBER: 253P153

CATALOG NUMBER: 1270-44-CFL/4/39

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.0	0.0	0.0
10°-20°	0.0	0.0	0.0
20°-30°	0.0	0.0	0.0
30°-40°	0.0	0.0	0.0
40°-50°	0.0	0.0	0.0
50°-60°	0.0	0.0	0.0
60°-70°	0.0	0.0	0.0
70°-80°	0.0	0.0	0.0
80°-90°	0.6	0.0	0.0
90°-100°	446.5	4.2	3.9
100°-110°	1342.1	12.6	11.8
110°-120°	2034.9	19.2	17.9
120°-130°	2251.9	21.2	19.8
130°-140°	1914.8	18.0	16.8
140°-150°	1390.0	13.1	12.2
150°-160°	818.8	7.7	7.2
160°-170°	339.5	3.2	3.0
170°-180°	86.9	0.8	0.8
0°-30°	0.0	0.0	0.0
0°-40°	0.0	0.0	0.0
0°-60°	0.0	0.0	0.0
0°-90°	0.6	0.0	0.0
90°-120°	3823.6	36.0	33.5
90°-150°	9380.3	88.3	82.3
90°-180°	10625.0	100.0	93.2
0°-180°	10626.1	100.0	93.2

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	2	2	2	2	2	21
95°	376	376	376	376	376	367
105°	860	860	860	860	860	933
115°	1475	1475	1475	1475	1475	1474
125°	2011	2011	2011	2011	2011	1800
135°	2149	2149	2149	2149	2149	1654
145°	1982	1982	1982	1982	1982	1247
155°	1747	1747	1747	1747	1747	801
165°	1162	1162	1162	1162	1162	342
175°	878	878	878	878	878	87
180°	843	843	843	843	843	



TEST NUMBER: 253P153

CATALOG NUMBER: 1270-44-CFL/4/39

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	2.0	6.0	4.0	6.0	2.0	6.0	4.0	6.0	2.0	6.0	4.0
92.5°	150.2	132.1	148.4	162.9	150.2	132.1	148.4	162.9	150.2	132.1	148.4
95°	376.4	400.8	447.9	438.8	376.4	400.8	447.9	438.8	376.4	400.8	447.9
97.5°	559.1	656.0	666.8	709.3	559.1	656.0	666.8	709.3	559.1	656.0	666.8
100°	674.0	911.1	900.2	929.2	674.0	911.1	900.2	929.2	674.0	911.1	900.2
102.5°	735.6	1142.7	1171.7	1168.0	735.6	1142.7	1171.7	1168.0	735.6	1142.7	1171.7
105°	859.5	1375.2	1454.9	1378.9	859.5	1375.2	1454.9	1378.9	859.5	1375.2	1454.9
107.5°	1016.0	1605.0	1728.1	1599.6	1016.0	1605.0	1728.1	1599.6	1016.0	1605.0	1728.1
110°	1176.2	1760.7	2111.7	1764.3	1176.2	1760.7	2111.7	1764.3	1176.2	1760.7	2111.7



TEST NUMBER: 253P153

CATALOG NUMBER: 1270-44-CFL/4/39

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	1297.4	1898.2	2364.1	1914.5	1297.4	1898.2	2364.1	1914.5	1297.4	1898.2	2364.1
115°	1474.8	2076.4	2562.3	2133.4	1474.8	2076.4	2562.3	2133.4	1474.8	2076.4	2562.3
117.5°	1689.2	2235.7	2758.6	2324.3	1689.2	2235.7	2758.6	2324.3	1689.2	2235.7	2758.6
120°	1819.5	2354.2	2868.1	2432.9	1819.5	2354.2	2868.1	2432.9	1819.5	2354.2	2868.1
122.5°	1930.8	2473.6	2895.2	2564.1	1930.8	2473.6	2895.2	2564.1	1930.8	2473.6	2895.2
125°	2011.3	2584.0	2888.9	2658.2	2011.3	2584.0	2888.9	2658.2	2011.3	2584.0	2888.9
127.5°	2102.7	2649.1	2842.8	2706.1	2102.7	2649.1	2842.8	2706.1	2102.7	2649.1	2842.8
130°	2165.1	2631.0	2815.6	2684.4	2165.1	2631.0	2815.6	2684.4	2165.1	2631.0	2815.6
132.5°	2170.5	2574.0	2770.4	2613.0	2170.5	2574.0	2770.4	2613.0	2170.5	2574.0	2770.4
135°	2148.8	2488.1	2725.1	2515.2	2148.8	2488.1	2725.1	2515.2	2148.8	2488.1	2725.1
137.5°	2100.0	2415.7	2701.6	2436.5	2100.0	2415.7	2701.6	2436.5	2100.0	2415.7	2701.6
140°	2071.0	2322.5	2669.0	2343.3	2071.0	2322.5	2669.0	2343.3	2071.0	2322.5	2669.0
142.5°	2021.2	2235.7	2639.2	2254.7	2021.2	2235.7	2639.2	2254.7	2021.2	2235.7	2639.2
145°	1982.3	2160.6	2565.0	2169.6	1982.3	2160.6	2565.0	2169.6	1982.3	2160.6	2565.0
147.5°	1938.0	2081.0	2395.8	2094.5	1938.0	2081.0	2395.8	2094.5	1938.0	2081.0	2395.8
150°	1895.5	2014.9	2188.6	2025.8	1895.5	2014.9	2188.6	2025.8	1895.5	2014.9	2188.6
152.5°	1848.4	1913.6	1979.6	1921.7	1848.4	1913.6	1979.6	1921.7	1848.4	1913.6	1979.6
155°	1747.1	1758.9	1780.6	1763.4	1747.1	1758.9	1780.6	1763.4	1747.1	1758.9	1780.6
157.5°	1598.7	1592.4	1581.5	1600.5	1598.7	1592.4	1581.5	1600.5	1598.7	1592.4	1581.5
160°	1445.8	1435.0	1401.5	1448.5	1445.8	1435.0	1401.5	1448.5	1445.8	1435.0	1401.5
162.5°	1301.0	1283.0	1254.0	1289.3	1301.0	1283.0	1254.0	1289.3	1301.0	1283.0	1254.0
165°	1161.7	1150.0	1152.7	1150.9	1161.7	1150.0	1152.7	1150.9	1161.7	1150.0	1152.7
167.5°	1055.9	1053.1	1064.0	1054.0	1055.9	1053.1	1064.0	1054.0	1055.9	1053.1	1064.0
170°	983.5	979.9	979.9	980.8	983.5	979.9	979.9	980.8	983.5	979.9	979.9
172.5°	922.0	918.3	914.7	919.2	922.0	918.3	914.7	919.2	922.0	918.3	914.7
175°	878.5	872.2	869.5	875.8	878.5	872.2	869.5	875.8	878.5	872.2	869.5
177.5°	867.7	846.9	845.0	854.1	867.7	846.9	845.0	854.1	867.7	846.9	845.0
180°	843.2	843.2	843.2	843.2	843.2	843.2	843.2	843.2	843.2	843.2	843.2



TEST NUMBER: 253P153

CATALOG NUMBER: 1270-44-CFL/4/39

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0
90°	6.0	2.0	6.0	4.0	6.0	2.0
92.5°	162.9	150.2	132.1	148.4	162.9	150.2
95°	438.8	376.4	400.8	447.9	438.8	376.4
97.5°	709.3	559.1	656.0	666.8	709.3	559.1
100°	929.2	674.0	911.1	900.2	929.2	674.0
102.5°	1168.0	735.6	1142.7	1171.7	1168.0	735.6
105°	1378.9	859.5	1375.2	1454.9	1378.9	859.5
107.5°	1599.6	1016.0	1605.0	1728.1	1599.6	1016.0
110°	1764.3	1176.2	1760.7	2111.7	1764.3	1176.2



TEST NUMBER: 253P153

CATALOG NUMBER: 1270-44-CFL/4/39

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1914.5	1297.4	1898.2	2364.1	1914.5	1297.4
115°	2133.4	1474.8	2076.4	2562.3	2133.4	1474.8
117.5°	2324.3	1689.2	2235.7	2758.6	2324.3	1689.2
120°	2432.9	1819.5	2354.2	2868.1	2432.9	1819.5
122.5°	2564.1	1930.8	2473.6	2895.2	2564.1	1930.8
125°	2658.2	2011.3	2584.0	2888.9	2658.2	2011.3
127.5°	2706.1	2102.7	2649.1	2842.8	2706.1	2102.7
130°	2684.4	2165.1	2631.0	2815.6	2684.4	2165.1
132.5°	2613.0	2170.5	2574.0	2770.4	2613.0	2170.5
135°	2515.2	2148.8	2488.1	2725.1	2515.2	2148.8
137.5°	2436.5	2100.0	2415.7	2701.6	2436.5	2100.0
140°	2343.3	2071.0	2322.5	2669.0	2343.3	2071.0
142.5°	2254.7	2021.2	2235.7	2639.2	2254.7	2021.2
145°	2169.6	1982.3	2160.6	2565.0	2169.6	1982.3
147.5°	2094.5	1938.0	2081.0	2395.8	2094.5	1938.0
150°	2025.8	1895.5	2014.9	2188.6	2025.8	1895.5
152.5°	1921.7	1848.4	1913.6	1979.6	1921.7	1848.4
155°	1763.4	1747.1	1758.9	1780.6	1763.4	1747.1
157.5°	1600.5	1598.7	1592.4	1581.5	1600.5	1598.7
160°	1448.5	1445.8	1435.0	1401.5	1448.5	1445.8
162.5°	1289.3	1301.0	1283.0	1254.0	1289.3	1301.0
165°	1150.9	1161.7	1150.0	1152.7	1150.9	1161.7
167.5°	1054.0	1055.9	1053.1	1064.0	1054.0	1055.9
170°	980.8	983.5	979.9	979.9	980.8	983.5
172.5°	919.2	922.0	918.3	914.7	919.2	922.0
175°	875.8	878.5	872.2	869.5	875.8	878.5
177.5°	854.1	867.7	846.9	845.0	854.1	867.7
180°	843.2	843.2	843.2	843.2	843.2	843.2

(END OF REPORT)