

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: 253p171

Luminaire Tested: **1240-OB-36-CFL/6/39**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-66-11  
Report Number: 253p171  
Test Lab: METALUX LABORATORIES  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: SHAPER  
Catalog Number: 1240-OB-36-CFL/6/39  
Description: SHAPER 36 INCH 1240 SERIES DIRECT/INDIRECT INTERIOR TAPERED PENDANT  
FIXTURE  
[LAMP]SIX - F39BX - 2850 LUMENS - 39 WATTS SIX - GX24 T4  
COMPACT FLUORESCENT LAMPS  
Light Source: [MORE]SIX - F39BX - 2850 LUMENS - 39 WATTS SIX - GX24 T4  
COMPACT FLUORESCENT LAMPS  
Ballast/Driver: -

**Summary**

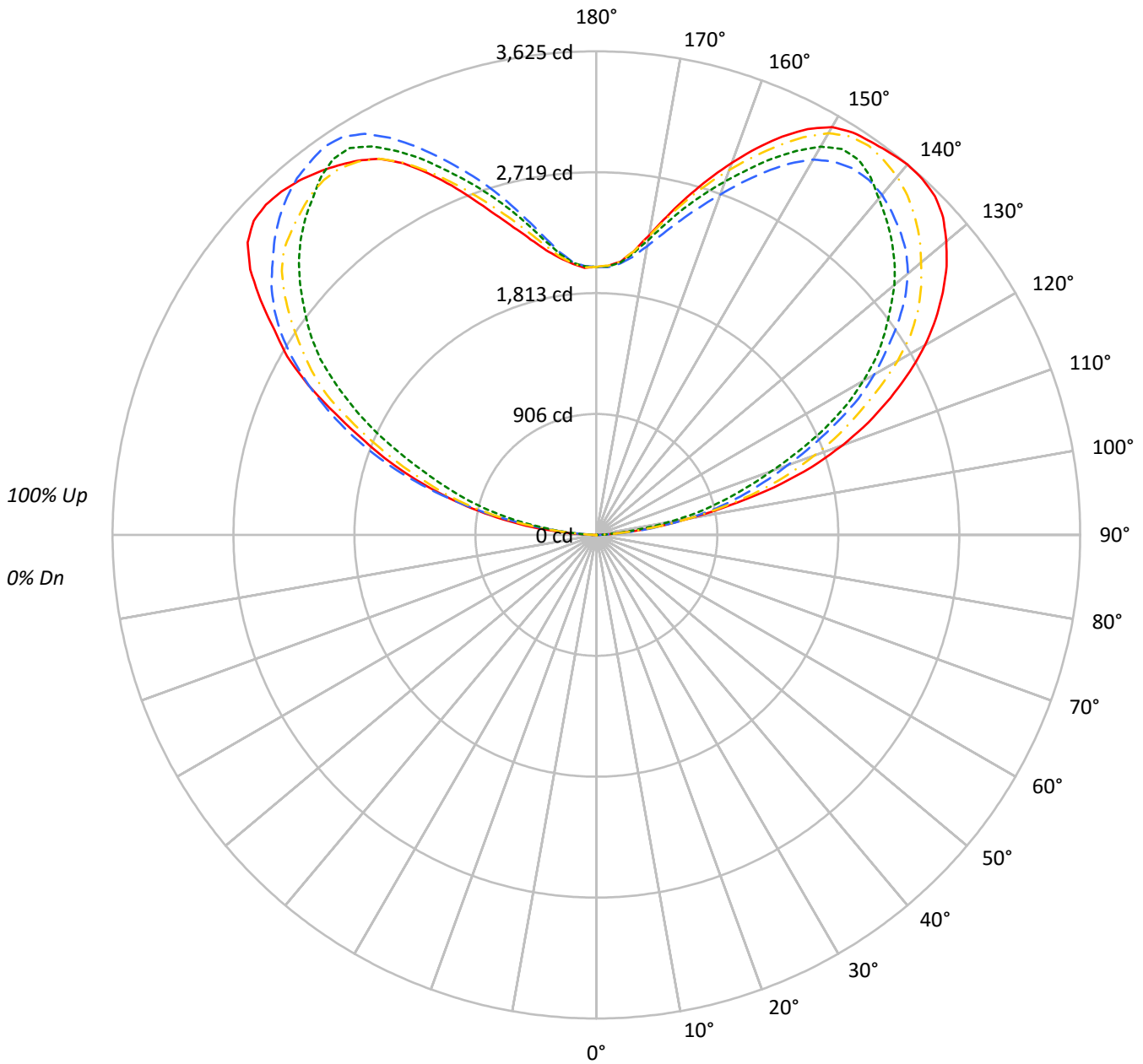
Lumens per Lamp: 2850 (6 lamps)  
Luminaire Lumens: 13218.8 lumens  
Efficiency: 77.3%  
Efficacy: 133.5 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.17 / 0.94  
Luminous Opening: Vertical Cylinder (Dia: 3' x H: 0.1')  
CIE Type: Indirect

Input Watts (W): 99  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



— 0°-180°    - - 45°-225°    ··· 90°-270°    - · 135°-315°



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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	74	74	74	74	63	63	63	63	43	43	43	25	25	25	8	8	8	0
1	67	64	61	59	57	55	52	50	37	36	35	22	21	20	7	7	7	0
2	61	56	51	48	52	48	44	41	33	31	29	19	18	17	6	6	6	0
3	55	49	44	40	47	42	38	34	29	26	24	17	15	14	5	5	5	0
4	51	43	37	33	43	37	32	29	25	23	20	15	13	12	5	4	4	0
5	46	38	32	28	39	33	28	24	23	20	17	13	11	10	4	4	3	0
6	42	34	28	24	36	29	24	21	20	17	15	12	10	9	4	3	3	0
7	39	30	25	21	33	26	21	18	18	15	13	10	9	8	3	3	3	0
8	36	27	22	18	31	23	19	16	16	13	11	9	8	7	3	3	2	0
9	33	25	19	16	28	21	17	14	15	12	10	9	7	6	3	2	2	0
10	31	22	17	14	26	19	15	12	13	11	9	8	6	5	3	2	2	0

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	5	5	5	5
5°	5	5	5	6
10°	5	5	5	6
15°	6	5	5	6
20°	5	5	5	5
25°	5	5	5	3
30°	3	5	3	3
35°	2	4	2	2
40°	2	0	2	2
45°	2	0	2	0
50°	0	0	2	0
55°	0	0	0	0
60°	3	0	0	3
65°	0	0	0	0
70°	0	0	0	0
75°	0	0	0	0
80°	7	0	7	7
85°	0	0	0	12



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.3	0.0	0.0
10°-20°	0.9	0.0	0.0
20°-30°	1.3	0.0	0.0
30°-40°	0.8	0.0	0.0
40°-50°	0.6	0.0	0.0
50°-60°	0.3	0.0	0.0
60°-70°	0.1	0.0	0.0
70°-80°	0.2	0.0	0.0
80°-90°	0.9	0.0	0.0
90°-100°	283.7	2.1	1.7
100°-110°	1232.9	9.3	7.2
110°-120°	2069.4	15.7	12.1
120°-130°	2551.0	19.3	14.9
130°-140°	2550.1	19.3	14.9
140°-150°	2156.2	16.3	12.6
150°-160°	1446.1	10.9	8.5
160°-170°	722.6	5.5	4.2
170°-180°	201.5	1.5	1.2
0°-30°	2.5	0.0	0.0
0°-40°	3.3	0.0	0.0
0°-60°	4.2	0.0	0.0
0°-90°	5.4	0.0	0.0
90°-120°	3586.0	27.1	21.0
90°-150°	10843.2	82.0	63.4
90°-180°	13213.0	100.0	77.3
0°-180°	13218.8	100.0	77.3

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3	3	3	3	3	
5°	3	3	3	4	3	0
15°	4	3	3	4	4	1
25°	3	3	3	2	3	1
35°	1	2	1	1	1	1
45°	1	0	1	0	1	1
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	1	0	0
90°	4	3	4	5	4	6
95°	203	139	287	204	203	273
105°	1377	975	1225	985	1377	1430
115°	2430	1890	2162	1819	2430	2398
125°	3168	2636	3073	2614	3168	2827
135°	3589	3128	3501	3132	3589	2758
145°	3595	3430	3380	3439	3595	2256
155°	3294	3112	2993	3113	3294	1525
165°	2619	2532	2385	2531	2619	753
175°	2055	2048	2040	2048	2055	203
180°	2009	2009	2009	2009	2009	



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**CANDELA DISTRIBUTION (FULL):**

	0°	20°	30°	40°	60°	80°	90°	100°	120°	140°	150°
0°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
2.5°	4.0	4.0	4.0	4.0	4.0	3.0	3.0	4.0	4.0	4.0	4.0
5°	3.0	4.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	4.0	4.0
7.5°	4.0	4.0	4.0	4.0	3.0	3.0	3.0	3.0	4.0	4.0	4.0
10°	3.0	4.0	4.0	4.0	3.0	3.0	3.0	3.0	3.0	4.0	4.0
12.5°	3.0	3.0	3.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
15°	4.0	3.0	4.0	3.0	3.0	3.0	3.0	3.0	4.0	3.0	4.0
17.5°	3.0	4.0	3.0	4.0	3.0	3.0	3.0	3.0	3.0	4.0	3.0
20°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
22.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
25°	3.0	3.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.0
27.5°	3.0	2.0	2.0	3.0	2.0	3.0	3.0	3.0	3.0	2.0	2.0
30°	2.0	2.0	2.0	1.0	2.0	3.0	3.0	3.0	2.0	2.0	2.0
32.5°	1.0	1.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	2.0
35°	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0	1.0	1.0	1.0
37.5°	1.0	1.0	1.0	1.0	1.0	1.0	2.0	0.0	1.0	1.0	1.0
40°	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	1.0	1.0	1.0
42.5°	2.0	1.0	1.0	1.0	2.0	2.0	2.0	1.0	2.0	1.0	1.0
45°	1.0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	1.0	1.0	0.0
47.5°	0.0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0
50°	0.0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0
52.5°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	1.0	1.0	1.0
55°	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
60°	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
62.5°	0.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	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	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
80°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	1.0	1.0	1.0	1.0
82.5°	0.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
85°	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
87.5°	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0
90°	4.0	4.0	5.0	5.0	4.0	3.0	3.0	3.0	4.0	4.0	5.0
92.5°	38.0	43.4	45.2	57.9	84.1	55.2	32.6	40.7	38.0	43.4	45.2
95°	202.7	215.3	204.5	236.1	286.8	209.0	139.3	178.2	202.7	215.3	204.5
97.5°	433.4	440.6	380.0	439.7	533.8	428.0	322.1	418.9	433.4	440.6	380.0
100°	699.4	698.5	584.5	668.6	759.1	670.4	543.8	698.5	699.4	698.5	584.5
102.5°	1026.0	955.4	791.7	893.9	993.4	915.6	770.0	960.9	1026.0	955.4	791.7
105°	1377.0	1214.2	985.3	1083.9	1225.0	1128.2	975.3	1213.3	1377.0	1214.2	985.3
107.5°	1691.0	1445.8	1165.3	1269.4	1459.4	1322.8	1176.2	1466.6	1691.0	1445.8	1165.3
110°	1960.6	1663.0	1364.4	1470.2	1689.2	1543.5	1395.1	1710.0	1960.6	1663.0	1364.4



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**CANDELA DISTRIBUTION (continued):**

	0°	20°	30°	40°	60°	80°	90°	100°	120°	140°	150°
112.5°	2207.6	1884.6	1584.2	1692.8	1912.7	1767.0	1640.3	1940.7	2207.6	1884.6	1584.2
115°	2430.2	2087.3	1818.6	1920.8	2161.5	1997.7	1890.0	2154.2	2430.2	2087.3	1818.6
117.5°	2645.5	2308.0	2038.4	2141.6	2433.8	2227.5	2116.2	2356.9	2645.5	2308.0	2038.4
120°	2843.7	2524.3	2250.1	2314.4	2674.5	2393.1	2309.9	2547.8	2843.7	2524.3	2250.1
122.5°	3015.6	2718.8	2450.1	2482.7	2859.0	2546.0	2490.8	2725.1	3015.6	2718.8	2450.1
125°	3168.5	2868.1	2613.9	2649.1	3072.6	2693.5	2636.5	2870.8	3168.5	2868.1	2613.9
127.5°	3307.8	2986.6	2753.2	2797.5	3268.0	2833.7	2774.9	2988.4	3307.8	2986.6	2753.2
130°	3421.8	3092.5	2894.3	2926.0	3411.0	2964.9	2915.1	3082.5	3421.8	3092.5	2894.3
132.5°	3524.0	3206.5	3022.8	3036.4	3483.3	3069.9	3030.0	3185.7	3524.0	3206.5	3022.8
135°	3589.2	3303.3	3132.3	3125.0	3501.4	3136.8	3127.8	3283.4	3589.2	3303.3	3132.3
137.5°	3616.3	3393.8	3225.5	3207.4	3491.5	3209.2	3213.7	3370.2	3616.3	3393.8	3225.5
140°	3625.4	3465.2	3302.4	3283.4	3466.1	3281.6	3291.5	3443.5	3625.4	3465.2	3302.4
142.5°	3610.9	3515.0	3386.5	3329.5	3427.2	3329.5	3376.6	3495.1	3610.9	3515.0	3386.5
145°	3594.6	3547.6	3439.0	3343.1	3380.2	3344.0	3430.0	3538.5	3594.6	3547.6	3439.0
147.5°	3576.5	3529.5	3438.1	3312.3	3325.9	3315.0	3429.0	3524.0	3576.5	3529.5	3438.1
150°	3529.5	3458.9	3362.1	3247.2	3255.3	3256.2	3360.3	3452.6	3529.5	3458.9	3362.1
152.5°	3430.0	3336.8	3244.5	3136.8	3141.3	3147.7	3243.6	3331.3	3430.0	3336.8	3244.5
155°	3294.2	3193.8	3113.3	3008.3	2993.0	3019.2	3111.5	3188.4	3294.2	3193.8	3113.3
157.5°	3136.8	3041.8	2961.3	2869.0	2833.7	2879.0	2963.1	3035.5	3136.8	3041.8	2961.3
160°	2967.6	2891.6	2820.1	2729.7	2670.0	2740.5	2820.1	2886.2	2967.6	2891.6	2820.1
162.5°	2793.9	2739.6	2676.3	2594.0	2517.0	2600.3	2676.3	2735.1	2793.9	2739.6	2676.3
165°	2619.3	2582.2	2530.6	2461.0	2385.0	2467.3	2532.4	2577.7	2619.3	2582.2	2530.6
167.5°	2444.7	2422.0	2384.0	2329.8	2266.4	2334.3	2384.0	2416.6	2444.7	2422.0	2384.0
170°	2280.0	2271.9	2242.9	2207.6	2166.0	2211.2	2244.7	2267.3	2280.0	2271.9	2242.9
172.5°	2142.5	2143.4	2126.2	2106.3	2093.6	2108.1	2128.0	2140.7	2142.5	2143.4	2126.2
175°	2054.7	2056.5	2048.4	2042.0	2040.2	2042.0	2048.4	2052.9	2054.7	2056.5	2048.4
177.5°	2018.5	2021.2	2014.9	2010.4	2004.0	2008.6	2014.0	2017.6	2018.5	2021.2	2014.9
180°	2008.6	2008.6	2008.6	2008.6	2008.6	2008.6	2008.6	2008.6	2008.6	2008.6	2008.6



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**CANDELA DISTRIBUTION (continued):**

	160°	180°	200°	210°	220°	240°	260°	270°	280°	300°	320°
0°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
2.5°	4.0	4.0	3.0	3.0	4.0	4.0	4.0	4.0	4.0	4.0	3.0
5°	3.0	3.0	3.0	3.0	3.0	3.0	4.0	4.0	3.0	3.0	3.0
7.5°	4.0	3.0	3.0	3.0	3.0	4.0	4.0	4.0	4.0	3.0	3.0
10°	4.0	3.0	3.0	3.0	3.0	3.0	4.0	4.0	4.0	3.0	3.0
12.5°	4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.0	3.0	3.0
15°	3.0	3.0	3.0	3.0	3.0	4.0	3.0	4.0	3.0	3.0	3.0
17.5°	4.0	3.0	3.0	3.0	3.0	3.0	4.0	3.0	4.0	3.0	3.0
20°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
22.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
25°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.0	3.0	3.0	3.0
27.5°	3.0	2.0	3.0	3.0	3.0	3.0	2.0	2.0	3.0	2.0	3.0
30°	1.0	2.0	3.0	3.0	3.0	2.0	2.0	2.0	1.0	2.0	3.0
32.5°	2.0	2.0	2.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0
35°	1.0	1.0	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
37.5°	1.0	1.0	1.0	2.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0
40°	1.0	1.0	1.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0
42.5°	1.0	2.0	2.0	2.0	1.0	2.0	1.0	1.0	1.0	2.0	2.0
45°	1.0	1.0	0.0	0.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
47.5°	1.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	1.0	0.0
50°	1.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	1.0	0.0
52.5°	1.0	1.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0
55°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0
60°	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	0.0	0.0
62.5°	1.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	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	1.0	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°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
75°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0
80°	1.0	1.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
82.5°	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0	0.0
85°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0
90°	5.0	4.0	3.0	3.0	3.0	4.0	4.0	5.0	5.0	4.0	3.0
92.5°	57.9	84.1	55.2	32.6	40.7	38.0	43.4	45.2	57.9	84.1	55.2
95°	236.1	286.8	209.0	139.3	178.2	202.7	215.3	204.5	236.1	286.8	209.0
97.5°	439.7	533.8	428.0	322.1	418.9	433.4	440.6	380.0	439.7	533.8	428.0
100°	668.6	759.1	670.4	543.8	698.5	699.4	698.5	584.5	668.6	759.1	670.4
102.5°	893.9	993.4	915.6	770.0	960.9	1026.0	955.4	791.7	893.9	993.4	915.6
105°	1083.9	1225.0	1128.2	975.3	1213.3	1377.0	1214.2	985.3	1083.9	1225.0	1128.2
107.5°	1269.4	1459.4	1322.8	1176.2	1466.6	1691.0	1445.8	1165.3	1269.4	1459.4	1322.8
110°	1470.2	1689.2	1543.5	1395.1	1710.0	1960.6	1663.0	1364.4	1470.2	1689.2	1543.5





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**CANDELA DISTRIBUTION (continued):**

	160°	180°	200°	210°	220°	240°	260°	270°	280°	300°	320°
112.5°	1692.8	1912.7	1767.0	1640.3	1940.7	2207.6	1884.6	1584.2	1692.8	1912.7	1767.0
115°	1920.8	2161.5	1997.7	1890.0	2154.2	2430.2	2087.3	1818.6	1920.8	2161.5	1997.7
117.5°	2141.6	2433.8	2227.5	2116.2	2356.9	2645.5	2308.0	2038.4	2141.6	2433.8	2227.5
120°	2314.4	2674.5	2393.1	2309.9	2547.8	2843.7	2524.3	2250.1	2314.4	2674.5	2393.1
122.5°	2482.7	2859.0	2546.0	2490.8	2725.1	3015.6	2718.8	2450.1	2482.7	2859.0	2546.0
125°	2649.1	3072.6	2693.5	2636.5	2870.8	3168.5	2868.1	2613.9	2649.1	3072.6	2693.5
127.5°	2797.5	3268.0	2833.7	2774.9	2988.4	3307.8	2986.6	2753.2	2797.5	3268.0	2833.7
130°	2926.0	3411.0	2964.9	2915.1	3082.5	3421.8	3092.5	2894.3	2926.0	3411.0	2964.9
132.5°	3036.4	3483.3	3069.9	3030.0	3185.7	3524.0	3206.5	3022.8	3036.4	3483.3	3069.9
135°	3125.0	3501.4	3136.8	3127.8	3283.4	3589.2	3303.3	3132.3	3125.0	3501.4	3136.8
137.5°	3207.4	3491.5	3209.2	3213.7	3370.2	3616.3	3393.8	3225.5	3207.4	3491.5	3209.2
140°	3283.4	3466.1	3281.6	3291.5	3443.5	3625.4	3465.2	3302.4	3283.4	3466.1	3281.6
142.5°	3329.5	3427.2	3329.5	3376.6	3495.1	3610.9	3515.0	3386.5	3329.5	3427.2	3329.5
145°	3343.1	3380.2	3344.0	3430.0	3538.5	3594.6	3547.6	3439.0	3343.1	3380.2	3344.0
147.5°	3312.3	3325.9	3315.0	3429.0	3524.0	3576.5	3529.5	3438.1	3312.3	3325.9	3315.0
150°	3247.2	3255.3	3256.2	3360.3	3452.6	3529.5	3458.9	3362.1	3247.2	3255.3	3256.2
152.5°	3136.8	3141.3	3147.7	3243.6	3331.3	3430.0	3336.8	3244.5	3136.8	3141.3	3147.7
155°	3008.3	2993.0	3019.2	3111.5	3188.4	3294.2	3193.8	3113.3	3008.3	2993.0	3019.2
157.5°	2869.0	2833.7	2879.0	2963.1	3035.5	3136.8	3041.8	2961.3	2869.0	2833.7	2879.0
160°	2729.7	2670.0	2740.5	2820.1	2886.2	2967.6	2891.6	2820.1	2729.7	2670.0	2740.5
162.5°	2594.0	2517.0	2600.3	2676.3	2735.1	2793.9	2739.6	2676.3	2594.0	2517.0	2600.3
165°	2461.0	2385.0	2467.3	2532.4	2577.7	2619.3	2582.2	2530.6	2461.0	2385.0	2467.3
167.5°	2329.8	2266.4	2334.3	2384.0	2416.6	2444.7	2422.0	2384.0	2329.8	2266.4	2334.3
170°	2207.6	2166.0	2211.2	2244.7	2267.3	2280.0	2271.9	2242.9	2207.6	2166.0	2211.2
172.5°	2106.3	2093.6	2108.1	2128.0	2140.7	2142.5	2143.4	2126.2	2106.3	2093.6	2108.1
175°	2042.0	2040.2	2042.0	2048.4	2052.9	2054.7	2056.5	2048.4	2042.0	2040.2	2042.0
177.5°	2010.4	2004.0	2008.6	2014.0	2017.6	2018.5	2021.2	2014.9	2010.4	2004.0	2008.6
180°	2008.6	2008.6	2008.6	2008.6	2008.6	2008.6	2008.6	2008.6	2008.6	2008.6	2008.6



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**CANDELA DISTRIBUTION (continued):**

	330°	340°	360°
0°	3.0	3.0	3.0
2.5°	3.0	4.0	4.0
5°	3.0	3.0	3.0
7.5°	3.0	3.0	4.0
10°	3.0	3.0	3.0
12.5°	3.0	3.0	3.0
15°	3.0	3.0	4.0
17.5°	3.0	3.0	3.0
20°	3.0	3.0	3.0
22.5°	3.0	3.0	3.0
25°	3.0	3.0	3.0
27.5°	3.0	3.0	3.0
30°	3.0	3.0	2.0
32.5°	1.0	1.0	1.0
35°	2.0	1.0	1.0
37.5°	2.0	0.0	1.0
40°	0.0	0.0	1.0
42.5°	2.0	1.0	2.0
45°	0.0	0.0	1.0
47.5°	0.0	0.0	0.0
50°	0.0	0.0	0.0
52.5°	0.0	0.0	1.0
55°	0.0	0.0	0.0
57.5°	0.0	0.0	0.0
60°	0.0	0.0	1.0
62.5°	0.0	0.0	0.0
65°	0.0	0.0	0.0
67.5°	0.0	0.0	0.0
70°	0.0	0.0	0.0
72.5°	0.0	0.0	0.0
75°	0.0	0.0	0.0
77.5°	0.0	0.0	0.0
80°	0.0	1.0	1.0
82.5°	0.0	0.0	0.0
85°	0.0	0.0	0.0
87.5°	0.0	0.0	1.0
90°	3.0	3.0	4.0
92.5°	32.6	40.7	38.0
95°	139.3	178.2	202.7
97.5°	322.1	418.9	433.4
100°	543.8	698.5	699.4
102.5°	770.0	960.9	1026.0
105°	975.3	1213.3	1377.0
107.5°	1176.2	1466.6	1691.0
110°	1395.1	1710.0	1960.6



TEST NUMBER: 253p171

CATALOG NUMBER: 1240-OB-36-CFL/6/39

**CANDELA DISTRIBUTION (continued):**

	330°	340°	360°
112.5°	1640.3	1940.7	2207.6
115°	1890.0	2154.2	2430.2
117.5°	2116.2	2356.9	2645.5
120°	2309.9	2547.8	2843.7
122.5°	2490.8	2725.1	3015.6
125°	2636.5	2870.8	3168.5
127.5°	2774.9	2988.4	3307.8
130°	2915.1	3082.5	3421.8
132.5°	3030.0	3185.7	3524.0
135°	3127.8	3283.4	3589.2
137.5°	3213.7	3370.2	3616.3
140°	3291.5	3443.5	3625.4
142.5°	3376.6	3495.1	3610.9
145°	3430.0	3538.5	3594.6
147.5°	3429.0	3524.0	3576.5
150°	3360.3	3452.6	3529.5
152.5°	3243.6	3331.3	3430.0
155°	3111.5	3188.4	3294.2
157.5°	2963.1	3035.5	3136.8
160°	2820.1	2886.2	2967.6
162.5°	2676.3	2735.1	2793.9
165°	2532.4	2577.7	2619.3
167.5°	2384.0	2416.6	2444.7
170°	2244.7	2267.3	2280.0
172.5°	2128.0	2140.7	2142.5
175°	2048.4	2052.9	2054.7
177.5°	2014.0	2017.6	2018.5
180°	2008.6	2008.6	2008.6

(END OF REPORT)