

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: 253P232

Luminaire Tested: **1215-XX-36-CFL/6/39-T5C/1/40**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 253P232
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 1215-XX-36-CFL/6/39-T5C/1/40
Description: SHAPER 36 INCH 1215 SERIES DIRECT/INDIRECT INDOOR PENDANT FIXTURE
WITH SHALLOW BOWL
Light Source: SIX 39 WATT BIAx COMPACT FLUORESCENT LAMPS AND ONE 40 WATTS T5 CIRCLINE
(6)F39BX - 2850 LUMENS AND (1)TL5C40W/830 - 3300 LUMENS
Ballast/Driver: -

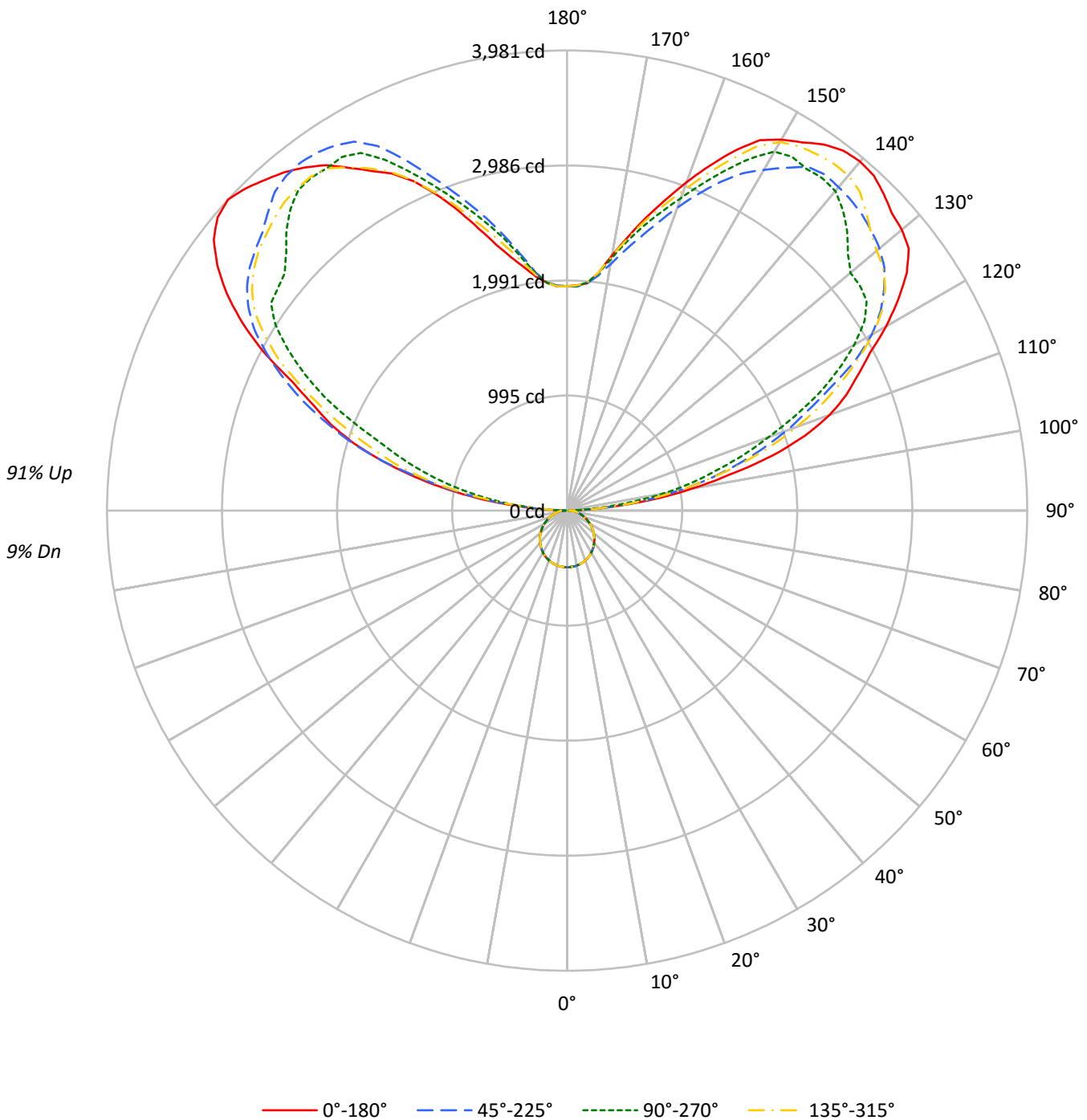
Summary

Lumens per Lamp: 20400 (1 lamp)
Luminaire Lumens: 16651.5 lumens
Efficiency: 81.6%
Efficacy: 60.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
Luminous Opening: Vertical Cylinder (Dia: 3' x H: 0.52')
CIE Type: Indirect

Input Watts (W): 274
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

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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	79	79	79	79	69	69	69	69	49	49	49	32	32	32	15	15	15	7
1	72	69	66	63	63	60	57	55	43	41	40	27	27	26	13	13	12	6
2	66	60	55	51	57	52	48	45	37	35	33	24	23	21	11	11	10	5
3	60	53	47	43	52	46	41	37	33	30	28	21	19	18	10	9	9	4
4	55	46	40	36	47	40	35	32	29	26	23	19	17	15	9	8	7	3
5	50	41	35	30	43	36	31	27	26	22	20	17	15	13	8	7	6	3
6	46	37	30	26	39	32	27	23	23	20	17	15	13	11	7	6	6	3
7	42	33	27	22	36	29	24	20	21	17	15	13	11	10	7	6	5	2
8	39	30	24	20	34	26	21	17	19	15	13	12	10	9	6	5	4	2
9	36	27	21	17	31	23	19	15	17	14	11	11	9	8	5	5	4	2
10	34	24	19	15	29	21	17	13	16	12	10	10	8	7	5	4	3	2

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	745	745	745	745
5°	732	732	732	732
10°	719	719	719	719
15°	704	704	704	704
20°	688	688	688	688
25°	672	672	672	672
30°	652	652	652	652
35°	633	633	633	633
40°	610	610	610	610
45°	587	587	587	587
50°	561	561	561	561
55°	533	533	533	533
60°	500	500	500	500
65°	464	464	464	464
70°	427	427	427	427
75°	390	390	390	390
80°	354	354	354	354
85°	322	322	322	322



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	46.4	0.3	0.2
10°-20°	133.5	0.8	0.7
20°-30°	203.1	1.2	1.0
30°-40°	245.8	1.5	1.2
40°-50°	256.7	1.5	1.3
50°-60°	235.8	1.4	1.2
60°-70°	188.3	1.1	0.9
70°-80°	128.2	0.8	0.6
80°-90°	68.2	0.4	0.3
90°-100°	446.9	2.7	2.2
100°-110°	1618.2	9.7	7.9
110°-120°	2541.8	15.3	12.5
120°-130°	2987.5	17.9	14.6
130°-140°	2810.7	16.9	13.8
140°-150°	2308.8	13.9	11.3
150°-160°	1509.5	9.1	7.4
160°-170°	726.3	4.4	3.6
170°-180°	195.9	1.2	1.0
0°-30°	382.9	2.3	1.9
0°-40°	628.7	3.8	3.1
0°-60°	1121.2	6.7	5.5
0°-90°	1505.8	9.0	7.4
90°-120°	4606.9	27.7	22.6
90°-150°	12714.0	76.4	62.3
90°-180°	15146.0	91.0	74.2
0°-180°	16651.5	100.0	81.6

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	489	489	489	489	489	
5°	488	488	488	488	488	46
15°	473	473	473	473	473	133
25°	441	441	441	441	441	203
35°	393	393	393	393	393	246
45°	333	333	333	333	333	257
55°	264	264	264	264	264	236
65°	190	190	190	190	190	188
75°	121	121	121	121	121	128
85°	65	65	65	65	65	58
90°	20	12	20	13	20	33
95°	408	289	402	333	408	489
105°	1842	1330	1656	1278	1842	1901
115°	2774	2408	2611	2305	2774	2761
125°	3587	3162	3694	3128	3587	3177
135°	3873	3426	3938	3434	3873	2993
145°	3867	3610	3647	3618	3867	2421
155°	3436	3249	3144	3238	3436	1589
165°	2618	2548	2384	2540	2618	754
175°	1972	1980	1977	1978	1972	197
180°	1941	1941	1941	1941	1941	



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CANDELA DISTRIBUTION (FULL):

	0°	20°	30°	40°	60°	80°	90°	100°	120°	140°	150°
0°	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0
2.5°	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0
5°	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0
7.5°	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0
10°	483.0	483.0	483.0	483.0	483.0	483.0	483.0	483.0	483.0	483.0	483.0
12.5°	478.0	478.0	478.0	478.0	478.0	478.0	478.0	478.0	478.0	478.0	478.0
15°	473.0	473.0	473.0	473.0	473.0	473.0	473.0	473.0	473.0	473.0	473.0
17.5°	466.0	466.0	466.0	466.0	466.0	466.0	466.0	466.0	466.0	466.0	466.0
20°	459.0	459.0	459.0	459.0	459.0	459.0	459.0	459.0	459.0	459.0	459.0
22.5°	450.0	450.0	450.0	450.0	450.0	450.0	450.0	450.0	450.0	450.0	450.0
25°	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0
27.5°	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0
30°	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0
32.5°	406.0	406.0	406.0	406.0	406.0	406.0	406.0	406.0	406.0	406.0	406.0
35°	393.0	393.0	393.0	393.0	393.0	393.0	393.0	393.0	393.0	393.0	393.0
37.5°	379.0	379.0	379.0	379.0	379.0	379.0	379.0	379.0	379.0	379.0	379.0
40°	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0
42.5°	349.0	349.0	349.0	349.0	349.0	349.0	349.0	349.0	349.0	349.0	349.0
45°	333.0	333.0	333.0	333.0	333.0	333.0	333.0	333.0	333.0	333.0	333.0
47.5°	316.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0
50°	299.0	299.0	299.0	299.0	299.0	299.0	299.0	299.0	299.0	299.0	299.0
52.5°	282.0	282.0	282.0	282.0	282.0	282.0	282.0	282.0	282.0	282.0	282.0
55°	264.0	264.0	264.0	264.0	264.0	264.0	264.0	264.0	264.0	264.0	264.0
57.5°	245.0	245.0	245.0	245.0	245.0	245.0	245.0	245.0	245.0	245.0	245.0
60°	227.0	227.0	227.0	227.0	227.0	227.0	227.0	227.0	227.0	227.0	227.0
62.5°	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0
65°	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0
67.5°	172.0	172.0	172.0	172.0	172.0	172.0	172.0	172.0	172.0	172.0	172.0
70°	154.0	154.0	154.0	154.0	154.0	154.0	154.0	154.0	154.0	154.0	154.0
72.5°	137.0	137.0	137.0	137.0	137.0	137.0	137.0	137.0	137.0	137.0	137.0
75°	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0
77.5°	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0
80°	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
82.5°	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
85°	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
87.5°	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
90°	20.0	15.0	13.0	15.0	20.0	18.0	12.0	21.0	20.0	15.0	13.0
92.5°	146.6	135.7	116.7	138.4	128.5	101.3	78.7	105.0	146.6	135.7	116.7
95°	408.0	370.0	333.0	382.7	401.7	325.7	288.6	336.6	408.0	370.0	333.0
97.5°	762.7	645.1	586.3	676.8	722.9	616.1	558.2	653.2	762.7	645.1	586.3
100°	1107.4	922.0	818.8	941.9	1044.1	918.3	839.6	955.4	1107.4	922.0	818.8
102.5°	1444.0	1188.0	1051.3	1209.7	1349.9	1218.7	1098.4	1243.1	1444.0	1188.0	1051.3
105°	1842.1	1457.6	1277.5	1463.9	1655.7	1475.7	1330.0	1584.2	1842.1	1457.6	1277.5
107.5°	2158.8	1736.2	1497.4	1711.8	1932.6	1687.4	1597.8	1887.3	2158.8	1736.2	1497.4
110°	2416.6	2008.6	1717.2	1967.9	2172.3	1944.3	1847.5	2146.1	2416.6	2008.6	1717.2



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CANDELA DISTRIBUTION (continued):

	0°	20°	30°	40°	60°	80°	90°	100°	120°	140°	150°
112.5°	2613.9	2294.5	2005.9	2207.6	2370.5	2231.1	2127.1	2425.7	2613.9	2294.5	2005.9
115°	2774.0	2553.2	2305.3	2476.3	2611.1	2506.2	2407.6	2680.8	2774.0	2553.2	2305.3
117.5°	2954.0	2796.6	2561.4	2761.3	2949.5	2753.2	2647.3	2915.1	2954.0	2796.6	2561.4
120°	3185.7	3017.4	2791.2	2976.7	3243.6	2944.1	2867.2	3102.4	3185.7	3017.4	2791.2
122.5°	3394.7	3177.5	2993.0	3124.1	3490.6	3110.6	3050.9	3228.2	3394.7	3177.5	2993.0
125°	3587.4	3283.4	3127.8	3234.5	3694.1	3207.4	3162.1	3311.4	3587.4	3283.4	3127.8
127.5°	3724.9	3351.2	3154.9	3326.8	3853.4	3273.4	3193.8	3372.0	3724.9	3351.2	3154.9
130°	3780.1	3401.9	3191.1	3388.3	3947.5	3333.1	3200.1	3430.0	3780.1	3401.9	3191.1
132.5°	3809.0	3482.4	3296.0	3438.1	3981.0	3382.9	3293.3	3493.3	3809.0	3482.4	3296.0
135°	3873.3	3585.6	3434.5	3505.0	3938.4	3458.0	3426.3	3586.5	3873.3	3585.6	3434.5
137.5°	3928.5	3684.2	3542.1	3559.3	3877.8	3535.8	3529.5	3679.7	3928.5	3684.2	3542.1
140°	3942.0	3733.0	3619.0	3597.3	3817.2	3572.9	3610.0	3725.8	3942.0	3733.0	3619.0
142.5°	3924.9	3738.5	3633.5	3639.9	3739.4	3609.1	3625.4	3748.4	3924.9	3738.5	3633.5
145°	3867.0	3729.4	3618.1	3623.6	3647.1	3601.0	3610.0	3749.3	3867.0	3729.4	3618.1
147.5°	3777.4	3722.2	3627.2	3516.8	3516.8	3522.2	3626.3	3732.1	3777.4	3722.2	3627.2
150°	3705.0	3673.3	3572.9	3408.2	3392.9	3424.5	3586.5	3678.8	3705.0	3673.3	3572.9
152.5°	3612.7	3528.6	3421.8	3290.6	3287.0	3307.8	3433.6	3536.7	3612.7	3528.6	3421.8
155°	3436.3	3324.1	3238.1	3134.1	3144.0	3147.7	3249.0	3332.2	3436.3	3324.1	3238.1
157.5°	3231.8	3116.9	3051.8	2965.8	2962.2	2979.4	3060.8	3124.1	3231.8	3116.9	3051.8
160°	3021.9	2924.2	2872.6	2796.6	2764.0	2812.0	2876.2	2930.5	3021.9	2924.2	2872.6
162.5°	2814.7	2749.6	2702.5	2626.5	2562.3	2639.2	2707.0	2754.1	2814.7	2749.6	2702.5
165°	2618.4	2583.1	2539.7	2470.9	2384.0	2487.2	2547.8	2581.3	2618.4	2583.1	2539.7
167.5°	2422.0	2404.9	2377.7	2322.5	2243.8	2337.9	2381.3	2403.0	2422.0	2404.9	2377.7
170°	2240.2	2232.0	2207.6	2172.3	2134.3	2184.1	2214.9	2231.1	2240.2	2232.0	2207.6
172.5°	2071.9	2075.5	2064.7	2051.1	2038.4	2055.6	2068.3	2075.5	2071.9	2075.5	2064.7
175°	1972.4	1983.2	1977.8	1972.4	1976.9	1976.0	1979.6	1980.5	1972.4	1983.2	1977.8
177.5°	1950.7	1949.8	1944.3	1938.9	1940.7	1941.6	1945.2	1948.9	1950.7	1949.8	1944.3
180°	1940.7	1940.7	1940.7	1940.7	1940.7	1940.7	1940.7	1940.7	1940.7	1940.7	1940.7



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CANDELA DISTRIBUTION (continued):

	160°	180°	200°	210°	220°	240°	260°	270°	280°	300°	320°
0°	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0
2.5°	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0	489.0
5°	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0
7.5°	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0	486.0
10°	483.0	483.0	483.0	483.0	483.0	483.0	483.0	483.0	483.0	483.0	483.0
12.5°	478.0	478.0	478.0	478.0	478.0	478.0	478.0	478.0	478.0	478.0	478.0
15°	473.0	473.0	473.0	473.0	473.0	473.0	473.0	473.0	473.0	473.0	473.0
17.5°	466.0	466.0	466.0	466.0	466.0	466.0	466.0	466.0	466.0	466.0	466.0
20°	459.0	459.0	459.0	459.0	459.0	459.0	459.0	459.0	459.0	459.0	459.0
22.5°	450.0	450.0	450.0	450.0	450.0	450.0	450.0	450.0	450.0	450.0	450.0
25°	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0	441.0
27.5°	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0	430.0
30°	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0	418.0
32.5°	406.0	406.0	406.0	406.0	406.0	406.0	406.0	406.0	406.0	406.0	406.0
35°	393.0	393.0	393.0	393.0	393.0	393.0	393.0	393.0	393.0	393.0	393.0
37.5°	379.0	379.0	379.0	379.0	379.0	379.0	379.0	379.0	379.0	379.0	379.0
40°	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0	364.0
42.5°	349.0	349.0	349.0	349.0	349.0	349.0	349.0	349.0	349.0	349.0	349.0
45°	333.0	333.0	333.0	333.0	333.0	333.0	333.0	333.0	333.0	333.0	333.0
47.5°	316.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0	316.0
50°	299.0	299.0	299.0	299.0	299.0	299.0	299.0	299.0	299.0	299.0	299.0
52.5°	282.0	282.0	282.0	282.0	282.0	282.0	282.0	282.0	282.0	282.0	282.0
55°	264.0	264.0	264.0	264.0	264.0	264.0	264.0	264.0	264.0	264.0	264.0
57.5°	245.0	245.0	245.0	245.0	245.0	245.0	245.0	245.0	245.0	245.0	245.0
60°	227.0	227.0	227.0	227.0	227.0	227.0	227.0	227.0	227.0	227.0	227.0
62.5°	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0
65°	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0
67.5°	172.0	172.0	172.0	172.0	172.0	172.0	172.0	172.0	172.0	172.0	172.0
70°	154.0	154.0	154.0	154.0	154.0	154.0	154.0	154.0	154.0	154.0	154.0
72.5°	137.0	137.0	137.0	137.0	137.0	137.0	137.0	137.0	137.0	137.0	137.0
75°	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0	121.0
77.5°	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0
80°	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
82.5°	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
85°	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
87.5°	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
90°	15.0	20.0	18.0	12.0	21.0	20.0	15.0	13.0	15.0	20.0	18.0
92.5°	138.4	128.5	101.3	78.7	105.0	146.6	135.7	116.7	138.4	128.5	101.3
95°	382.7	401.7	325.7	288.6	336.6	408.0	370.0	333.0	382.7	401.7	325.7
97.5°	676.8	722.9	616.1	558.2	653.2	762.7	645.1	586.3	676.8	722.9	616.1
100°	941.9	1044.1	918.3	839.6	955.4	1107.4	922.0	818.8	941.9	1044.1	918.3
102.5°	1209.7	1349.9	1218.7	1098.4	1243.1	1444.0	1188.0	1051.3	1209.7	1349.9	1218.7
105°	1463.9	1655.7	1475.7	1330.0	1584.2	1842.1	1457.6	1277.5	1463.9	1655.7	1475.7
107.5°	1711.8	1932.6	1687.4	1597.8	1887.3	2158.8	1736.2	1497.4	1711.8	1932.6	1687.4
110°	1967.9	2172.3	1944.3	1847.5	2146.1	2416.6	2008.6	1717.2	1967.9	2172.3	1944.3



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CANDELA DISTRIBUTION (continued):

	160°	180°	200°	210°	220°	240°	260°	270°	280°	300°	320°
112.5°	2207.6	2370.5	2231.1	2127.1	2425.7	2613.9	2294.5	2005.9	2207.6	2370.5	2231.1
115°	2476.3	2611.1	2506.2	2407.6	2680.8	2774.0	2553.2	2305.3	2476.3	2611.1	2506.2
117.5°	2761.3	2949.5	2753.2	2647.3	2915.1	2954.0	2796.6	2561.4	2761.3	2949.5	2753.2
120°	2976.7	3243.6	2944.1	2867.2	3102.4	3185.7	3017.4	2791.2	2976.7	3243.6	2944.1
122.5°	3124.1	3490.6	3110.6	3050.9	3228.2	3394.7	3177.5	2993.0	3124.1	3490.6	3110.6
125°	3234.5	3694.1	3207.4	3162.1	3311.4	3587.4	3283.4	3127.8	3234.5	3694.1	3207.4
127.5°	3326.8	3853.4	3273.4	3193.8	3372.0	3724.9	3351.2	3154.9	3326.8	3853.4	3273.4
130°	3388.3	3947.5	3333.1	3200.1	3430.0	3780.1	3401.9	3191.1	3388.3	3947.5	3333.1
132.5°	3438.1	3981.0	3382.9	3293.3	3493.3	3809.0	3482.4	3296.0	3438.1	3981.0	3382.9
135°	3505.0	3938.4	3458.0	3426.3	3586.5	3873.3	3585.6	3434.5	3505.0	3938.4	3458.0
137.5°	3559.3	3877.8	3535.8	3529.5	3679.7	3928.5	3684.2	3542.1	3559.3	3877.8	3535.8
140°	3597.3	3817.2	3572.9	3610.0	3725.8	3942.0	3733.0	3619.0	3597.3	3817.2	3572.9
142.5°	3639.9	3739.4	3609.1	3625.4	3748.4	3924.9	3738.5	3633.5	3639.9	3739.4	3609.1
145°	3623.6	3647.1	3601.0	3610.0	3749.3	3867.0	3729.4	3618.1	3623.6	3647.1	3601.0
147.5°	3516.8	3516.8	3522.2	3626.3	3732.1	3777.4	3722.2	3627.2	3516.8	3516.8	3522.2
150°	3408.2	3392.9	3424.5	3586.5	3678.8	3705.0	3673.3	3572.9	3408.2	3392.9	3424.5
152.5°	3290.6	3287.0	3307.8	3433.6	3536.7	3612.7	3528.6	3421.8	3290.6	3287.0	3307.8
155°	3134.1	3144.0	3147.7	3249.0	3332.2	3436.3	3324.1	3238.1	3134.1	3144.0	3147.7
157.5°	2965.8	2962.2	2979.4	3060.8	3124.1	3231.8	3116.9	3051.8	2965.8	2962.2	2979.4
160°	2796.6	2764.0	2812.0	2876.2	2930.5	3021.9	2924.2	2872.6	2796.6	2764.0	2812.0
162.5°	2626.5	2562.3	2639.2	2707.0	2754.1	2814.7	2749.6	2702.5	2626.5	2562.3	2639.2
165°	2470.9	2384.0	2487.2	2547.8	2581.3	2618.4	2583.1	2539.7	2470.9	2384.0	2487.2
167.5°	2322.5	2243.8	2337.9	2381.3	2403.0	2422.0	2404.9	2377.7	2322.5	2243.8	2337.9
170°	2172.3	2134.3	2184.1	2214.9	2231.1	2240.2	2232.0	2207.6	2172.3	2134.3	2184.1
172.5°	2051.1	2038.4	2055.6	2068.3	2075.5	2071.9	2075.5	2064.7	2051.1	2038.4	2055.6
175°	1972.4	1976.9	1976.0	1979.6	1980.5	1972.4	1983.2	1977.8	1972.4	1976.9	1976.0
177.5°	1938.9	1940.7	1941.6	1945.2	1948.9	1950.7	1949.8	1944.3	1938.9	1940.7	1941.6
180°	1940.7	1940.7	1940.7	1940.7	1940.7	1940.7	1940.7	1940.7	1940.7	1940.7	1940.7



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CANDELA DISTRIBUTION (continued):

	330°	340°	360°
0°	489.0	489.0	489.0
2.5°	489.0	489.0	489.0
5°	488.0	488.0	488.0
7.5°	486.0	486.0	486.0
10°	483.0	483.0	483.0
12.5°	478.0	478.0	478.0
15°	473.0	473.0	473.0
17.5°	466.0	466.0	466.0
20°	459.0	459.0	459.0
22.5°	450.0	450.0	450.0
25°	441.0	441.0	441.0
27.5°	430.0	430.0	430.0
30°	418.0	418.0	418.0
32.5°	406.0	406.0	406.0
35°	393.0	393.0	393.0
37.5°	379.0	379.0	379.0
40°	364.0	364.0	364.0
42.5°	349.0	349.0	349.0
45°	333.0	333.0	333.0
47.5°	316.0	316.0	316.0
50°	299.0	299.0	299.0
52.5°	282.0	282.0	282.0
55°	264.0	264.0	264.0
57.5°	245.0	245.0	245.0
60°	227.0	227.0	227.0
62.5°	208.0	208.0	208.0
65°	190.0	190.0	190.0
67.5°	172.0	172.0	172.0
70°	154.0	154.0	154.0
72.5°	137.0	137.0	137.0
75°	121.0	121.0	121.0
77.5°	105.0	105.0	105.0
80°	91.0	91.0	91.0
82.5°	77.0	77.0	77.0
85°	65.0	65.0	65.0
87.5°	54.0	54.0	54.0
90°	12.0	21.0	20.0
92.5°	78.7	105.0	146.6
95°	288.6	336.6	408.0
97.5°	558.2	653.2	762.7
100°	839.6	955.4	1107.4
102.5°	1098.4	1243.1	1444.0
105°	1330.0	1584.2	1842.1
107.5°	1597.8	1887.3	2158.8
110°	1847.5	2146.1	2416.6



TEST NUMBER: 253P232

CATALOG NUMBER: 1215-XX-36-CFL/6/39-T5C/1/40

CANDELA DISTRIBUTION (continued):

	330°	340°	360°
112.5°	2127.1	2425.7	2613.9
115°	2407.6	2680.8	2774.0
117.5°	2647.3	2915.1	2954.0
120°	2867.2	3102.4	3185.7
122.5°	3050.9	3228.2	3394.7
125°	3162.1	3311.4	3587.4
127.5°	3193.8	3372.0	3724.9
130°	3200.1	3430.0	3780.1
132.5°	3293.3	3493.3	3809.0
135°	3426.3	3586.5	3873.3
137.5°	3529.5	3679.7	3928.5
140°	3610.0	3725.8	3942.0
142.5°	3625.4	3748.4	3924.9
145°	3610.0	3749.3	3867.0
147.5°	3626.3	3732.1	3777.4
150°	3586.5	3678.8	3705.0
152.5°	3433.6	3536.7	3612.7
155°	3249.0	3332.2	3436.3
157.5°	3060.8	3124.1	3231.8
160°	2876.2	2930.5	3021.9
162.5°	2707.0	2754.1	2814.7
165°	2547.8	2581.3	2618.4
167.5°	2381.3	2403.0	2422.0
170°	2214.9	2231.1	2240.2
172.5°	2068.3	2075.5	2071.9
175°	1979.6	1980.5	1972.4
177.5°	1945.2	1948.9	1950.7
180°	1940.7	1940.7	1940.7

(END OF REPORT)