

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge or
Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: SHAPER

Report Number: 253P237

Luminaire Tested: **1215-XX-36-MH/3/70-T5C/1/40**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 253P237
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 1215-XX-36-MH/3/70-T5C/1/40
Description: SHAPER 36 INCH 1215 SERIES DIRECT/INDIRECT INDOOR PENDANT FIXTURE
WITH SHALLOW BOWL
Light Source: THREE 70 WATT T5 CERAMIC METAL HALIDE AND ONE 40 WATTS T5 CIRCLINE
(3)CDM70MH - 6700 LUMENS AND (1)TL5C40W/830 - 3300 LUMENS
Ballast/Driver: -

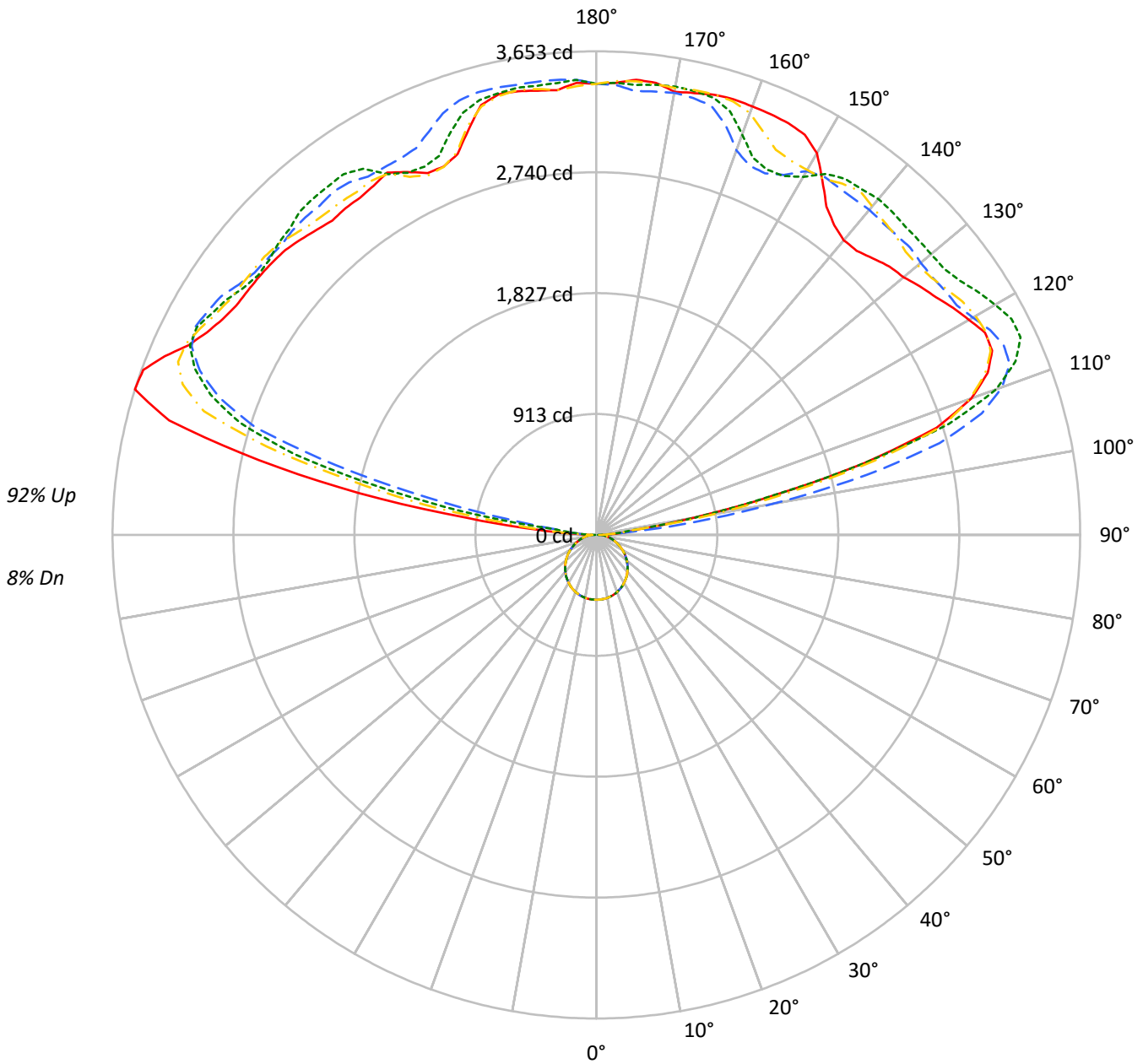
Summary

Lumens per Lamp: 23400 (1 lamp)
Luminaire Lumens: 17754.3 lumens
Efficiency: 75.9%
Efficacy: 71.0 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): 250
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



— 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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																		
0	74	74	74	74	64	64	64	64	46	46	46	29	29	29	14	14	14	6
1	67	64	61	59	58	55	53	51	40	38	37	25	24	24	12	12	11	5
2	61	56	51	48	53	48	45	42	35	32	30	22	21	20	10	10	9	4
3	55	49	44	40	48	42	38	35	30	28	25	19	18	17	9	8	8	4
4	51	43	37	33	44	37	33	29	27	24	22	17	15	14	8	7	7	3
5	46	38	32	28	40	33	28	25	24	21	18	15	13	12	7	6	6	3
6	42	34	28	24	37	30	25	21	21	18	16	14	12	10	6	6	5	2
7	39	30	25	21	34	27	22	18	19	16	14	12	10	9	6	5	4	2
8	36	27	22	18	31	24	19	16	17	14	12	11	9	8	5	5	4	2
9	33	25	20	16	29	22	17	14	16	13	11	10	8	7	5	4	3	2
10	31	23	17	14	27	20	15	12	14	11	9	9	7	6	5	4	3	1

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	0.6
20°-30°	203.1	1.1	0.9
30°-40°	245.8	1.4	1.1
40°-50°	256.7	1.4	1.1
50°-60°	235.8	1.3	1.0
60°-70°	188.3	1.1	0.8
70°-80°	128.2	0.7	0.5
80°-90°	69.3	0.4	0.3
90°-100°	372.5	2.1	1.6
100°-110°	2417.8	13.6	10.3
110°-120°	3306.0	18.6	14.1
120°-130°	2922.2	16.5	12.5
130°-140°	2479.4	14.0	10.6
140°-150°	2009.9	11.3	8.6
150°-160°	1460.1	8.2	6.2
160°-170°	953.5	5.4	4.1
170°-180°	326.0	1.8	1.4
0°-30°	382.9	2.2	1.6
0°-40°	628.7	3.5	2.7
0°-60°	1121.2	6.3	4.8
0°-90°	1506.9	8.5	6.4
90°-120°	6096.3	34.3	26.1
90°-150°	13507.9	76.1	57.7
90°-180°	16247.0	91.5	69.4
0°-180°	17754.3	100.0	75.9

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°	46	10	53	10	46	33
95°	216	169	442	148	216	259
105°	2090	2096	3338	2359	2090	2110
115°	3297	3533	3394	3385	3297	3208
125°	3130	3348	3213	3252	3130	2815
135°	2953	3296	3156	3272	2953	2292
145°	3027	3281	3109	3327	3027	1922
155°	3431	3045	3014	3069	3431	1580
165°	3442	3418	3362	3402	3442	974
175°	3451	3411	3372	3426	3451	328
180°	3407	3407	3407	3407	3407	



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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°	46.0	8.0	10.0	9.0	53.0	24.0	10.0	21.0	46.0	8.0	10.0
92.5°	94.3	75.6	77.5	86.6	109.6	123.0	69.9	80.4	94.3	75.6	77.5
95°	216.3	169.4	148.4	168.9	442.2	361.3	168.9	180.4	216.3	169.4	148.4
97.5°	324.0	251.7	304.4	675.3	982.5	585.3	267.5	252.2	324.0	251.7	304.4
100°	733.6	948.5	1036.6	1203.6	1820.5	1150.0	755.2	631.2	733.6	948.5	1036.6
102.5°	1354.8	1554.9	1691.3	1913.8	2609.6	1657.3	1340.5	1286.4	1354.8	1554.9	1691.3
105°	2089.9	2230.1	2359.4	2463.7	3338.5	2319.2	2096.1	2030.6	2089.9	2230.1	2359.4
107.5°	2694.4	2756.6	2822.6	2849.4	3652.9	2925.0	2790.1	2694.8	2694.4	2756.6	2822.6
110°	3011.6	2994.9	3101.1	3130.3	3641.0	3218.9	3208.3	3032.7	3011.6	2994.9	3101.1



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CANDELA DISTRIBUTION (continued):

	0°	20°	30°	40°	60°	80°	90°	100°	120°	140°	150°
112.5°	3197.8	3167.2	3280.6	3326.6	3525.6	3382.5	3425.1	3254.3	3197.8	3167.2	3280.6
115°	3296.9	3280.1	3385.4	3392.6	3394.0	3425.1	3533.3	3397.4	3296.9	3280.1	3385.4
117.5°	3308.8	3319.8	3400.2	3362.9	3314.6	3393.1	3533.8	3444.8	3308.8	3319.8	3400.2
120°	3248.1	3324.6	3349.5	3291.1	3257.2	3346.2	3477.3	3430.4	3248.1	3324.6	3349.5
122.5°	3193.0	3307.4	3308.4	3228.4	3223.7	3313.6	3416.0	3411.7	3193.0	3307.4	3308.4
125°	3129.9	3263.9	3252.4	3215.0	3213.1	3300.7	3348.1	3351.4	3129.9	3263.9	3252.4
127.5°	3082.0	3226.5	3219.4	3194.0	3206.9	3294.0	3306.0	3310.3	3082.0	3226.5	3219.4
130°	3027.4	3212.6	3226.5	3197.8	3197.3	3294.5	3299.3	3314.1	3027.4	3212.6	3226.5
132.5°	3001.6	3221.3	3258.1	3221.7	3184.9	3276.3	3297.4	3307.9	3001.6	3221.3	3258.1
135°	2953.3	3276.8	3272.0	3217.4	3155.7	3236.6	3296.4	3346.6	2953.3	3276.8	3272.0
137.5°	2909.7	3313.6	3314.1	3223.7	3124.6	3204.5	3307.9	3367.2	2909.7	3313.6	3314.1
140°	2905.4	3350.0	3321.3	3239.9	3100.2	3198.3	3312.2	3362.0	2905.4	3350.0	3321.3
142.5°	2949.9	3380.2	3322.2	3227.5	3111.2	3188.7	3290.7	3370.6	2949.9	3380.2	3322.2
145°	3027.0	3308.8	3327.0	3227.0	3108.8	3176.3	3280.6	3326.1	3027.0	3308.8	3327.0
147.5°	3174.8	3194.9	3278.7	3232.8	3127.9	3183.0	3233.2	3220.8	3174.8	3194.9	3278.7
150°	3329.4	3134.2	3145.6	3176.8	3159.5	3146.1	3121.7	3163.8	3329.4	3134.2	3145.6
152.5°	3407.9	3110.7	3084.4	3057.6	3089.7	3036.1	3055.7	3135.6	3407.9	3110.7	3084.4
155°	3430.9	3134.6	3069.1	3012.1	3014.5	2992.5	3045.2	3154.3	3430.9	3134.6	3069.1
157.5°	3440.4	3245.7	3100.2	3021.7	3011.6	3007.8	3084.9	3251.9	3440.4	3245.7	3100.2
160°	3444.3	3371.1	3229.9	3099.7	3061.4	3081.0	3217.9	3370.6	3444.3	3371.1	3229.9
162.5°	3450.5	3427.0	3343.8	3257.2	3208.3	3243.3	3354.3	3439.0	3450.5	3427.0	3343.8
165°	3441.9	3444.3	3401.7	3351.9	3362.0	3347.6	3418.4	3467.2	3441.9	3444.3	3401.7
167.5°	3418.4	3447.2	3418.0	3369.6	3408.4	3392.1	3432.8	3474.9	3418.4	3447.2	3418.0
170°	3398.3	3438.1	3429.4	3386.4	3403.6	3413.2	3438.1	3470.6	3398.3	3438.1	3429.4
172.5°	3443.8	3428.5	3421.8	3375.8	3383.5	3401.2	3429.9	3454.3	3443.8	3428.5	3421.8
175°	3451.0	3435.7	3426.1	3362.9	3372.5	3370.6	3411.3	3450.5	3451.0	3435.7	3426.1
177.5°	3417.5	3436.6	3439.5	3395.0	3418.4	3384.9	3417.5	3448.1	3417.5	3436.6	3439.5
180°	3407.0	3407.0	3407.0	3407.0	3407.0	3407.0	3407.0	3407.0	3407.0	3407.0	3407.0



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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°	9.0	53.0	24.0	10.0	21.0	46.0	8.0	10.0	9.0	53.0	24.0
92.5°	86.6	109.6	123.0	69.9	80.4	94.3	75.6	77.5	86.6	109.6	123.0
95°	168.9	442.2	361.3	168.9	180.4	216.3	169.4	148.4	168.9	442.2	361.3
97.5°	675.3	982.5	585.3	267.5	252.2	324.0	251.7	304.4	675.3	982.5	585.3
100°	1203.6	1820.5	1150.0	755.2	631.2	733.6	948.5	1036.6	1203.6	1820.5	1150.0
102.5°	1913.8	2609.6	1657.3	1340.5	1286.4	1354.8	1554.9	1691.3	1913.8	2609.6	1657.3
105°	2463.7	3338.5	2319.2	2096.1	2030.6	2089.9	2230.1	2359.4	2463.7	3338.5	2319.2
107.5°	2849.4	3652.9	2925.0	2790.1	2694.8	2694.4	2756.6	2822.6	2849.4	3652.9	2925.0
110°	3130.3	3641.0	3218.9	3208.3	3032.7	3011.6	2994.9	3101.1	3130.3	3641.0	3218.9



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CANDELA DISTRIBUTION (continued):

	160°	180°	200°	210°	220°	240°	260°	270°	280°	300°	320°
112.5°	3326.6	3525.6	3382.5	3425.1	3254.3	3197.8	3167.2	3280.6	3326.6	3525.6	3382.5
115°	3392.6	3394.0	3425.1	3533.3	3397.4	3296.9	3280.1	3385.4	3392.6	3394.0	3425.1
117.5°	3362.9	3314.6	3393.1	3533.8	3444.8	3308.8	3319.8	3400.2	3362.9	3314.6	3393.1
120°	3291.1	3257.2	3346.2	3477.3	3430.4	3248.1	3324.6	3349.5	3291.1	3257.2	3346.2
122.5°	3228.4	3223.7	3313.6	3416.0	3411.7	3193.0	3307.4	3308.4	3228.4	3223.7	3313.6
125°	3215.0	3213.1	3300.7	3348.1	3351.4	3129.9	3263.9	3252.4	3215.0	3213.1	3300.7
127.5°	3194.0	3206.9	3294.0	3306.0	3310.3	3082.0	3226.5	3219.4	3194.0	3206.9	3294.0
130°	3197.8	3197.3	3294.5	3299.3	3314.1	3027.4	3212.6	3226.5	3197.8	3197.3	3294.5
132.5°	3221.7	3184.9	3276.3	3297.4	3307.9	3001.6	3221.3	3258.1	3221.7	3184.9	3276.3
135°	3217.4	3155.7	3236.6	3296.4	3346.6	2953.3	3276.8	3272.0	3217.4	3155.7	3236.6
137.5°	3223.7	3124.6	3204.5	3307.9	3367.2	2909.7	3313.6	3314.1	3223.7	3124.6	3204.5
140°	3239.9	3100.2	3198.3	3312.2	3362.0	2905.4	3350.0	3321.3	3239.9	3100.2	3198.3
142.5°	3227.5	3111.2	3188.7	3290.7	3370.6	2949.9	3380.2	3322.2	3227.5	3111.2	3188.7
145°	3227.0	3108.8	3176.3	3280.6	3326.1	3027.0	3308.8	3327.0	3227.0	3108.8	3176.3
147.5°	3232.8	3127.9	3183.0	3233.2	3220.8	3174.8	3194.9	3278.7	3232.8	3127.9	3183.0
150°	3176.8	3159.5	3146.1	3121.7	3163.8	3329.4	3134.2	3145.6	3176.8	3159.5	3146.1
152.5°	3057.6	3089.7	3036.1	3055.7	3135.6	3407.9	3110.7	3084.4	3057.6	3089.7	3036.1
155°	3012.1	3014.5	2992.5	3045.2	3154.3	3430.9	3134.6	3069.1	3012.1	3014.5	2992.5
157.5°	3021.7	3011.6	3007.8	3084.9	3251.9	3440.4	3245.7	3100.2	3021.7	3011.6	3007.8
160°	3099.7	3061.4	3081.0	3217.9	3370.6	3444.3	3371.1	3229.9	3099.7	3061.4	3081.0
162.5°	3257.2	3208.3	3243.3	3354.3	3439.0	3450.5	3427.0	3343.8	3257.2	3208.3	3243.3
165°	3351.9	3362.0	3347.6	3418.4	3467.2	3441.9	3444.3	3401.7	3351.9	3362.0	3347.6
167.5°	3369.6	3408.4	3392.1	3432.8	3474.9	3418.4	3447.2	3418.0	3369.6	3408.4	3392.1
170°	3386.4	3403.6	3413.2	3438.1	3470.6	3398.3	3438.1	3429.4	3386.4	3403.6	3413.2
172.5°	3375.8	3383.5	3401.2	3429.9	3454.3	3443.8	3428.5	3421.8	3375.8	3383.5	3401.2
175°	3362.9	3372.5	3370.6	3411.3	3450.5	3451.0	3435.7	3426.1	3362.9	3372.5	3370.6
177.5°	3395.0	3418.4	3384.9	3417.5	3448.1	3417.5	3436.6	3439.5	3395.0	3418.4	3384.9
180°	3407.0	3407.0	3407.0	3407.0	3407.0	3407.0	3407.0	3407.0	3407.0	3407.0	3407.0



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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°	10.0	21.0	46.0
92.5°	69.9	80.4	94.3
95°	168.9	180.4	216.3
97.5°	267.5	252.2	324.0
100°	755.2	631.2	733.6
102.5°	1340.5	1286.4	1354.8
105°	2096.1	2030.6	2089.9
107.5°	2790.1	2694.8	2694.4
110°	3208.3	3032.7	3011.6



TEST NUMBER: 253P237

CATALOG NUMBER: 1215-XX-36-MH/3/70-T5C/1/40

CANDELA DISTRIBUTION (continued):

	330°	340°	360°
112.5°	3425.1	3254.3	3197.8
115°	3533.3	3397.4	3296.9
117.5°	3533.8	3444.8	3308.8
120°	3477.3	3430.4	3248.1
122.5°	3416.0	3411.7	3193.0
125°	3348.1	3351.4	3129.9
127.5°	3306.0	3310.3	3082.0
130°	3299.3	3314.1	3027.4
132.5°	3297.4	3307.9	3001.6
135°	3296.4	3346.6	2953.3
137.5°	3307.9	3367.2	2909.7
140°	3312.2	3362.0	2905.4
142.5°	3290.7	3370.6	2949.9
145°	3280.6	3326.1	3027.0
147.5°	3233.2	3220.8	3174.8
150°	3121.7	3163.8	3329.4
152.5°	3055.7	3135.6	3407.9
155°	3045.2	3154.3	3430.9
157.5°	3084.9	3251.9	3440.4
160°	3217.9	3370.6	3444.3
162.5°	3354.3	3439.0	3450.5
165°	3418.4	3467.2	3441.9
167.5°	3432.8	3474.9	3418.4
170°	3438.1	3470.6	3398.3
172.5°	3429.9	3454.3	3443.8
175°	3411.3	3450.5	3451.0
177.5°	3417.5	3448.1	3417.5
180°	3407.0	3407.0	3407.0

(END OF REPORT)