

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: 253P154

Luminaire Tested: **1270-44-CFL/8/27**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 253P154
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 1270-44-CFL/8/27
Description: SHAPER 44 INCH 1270 SERIES SOLID INDIRECT INTERIOR PENDANT FIXTURE
Light Source: EIGHT 24 WATT GX24 T4 COMPACT FLUORESCENT LAMPS
(8)F24BX - 1800 LUMENS - 24 WATTS
THIS FILE WAS PRORATED FROM TEST NO: 253P154
Ballast/Driver: -

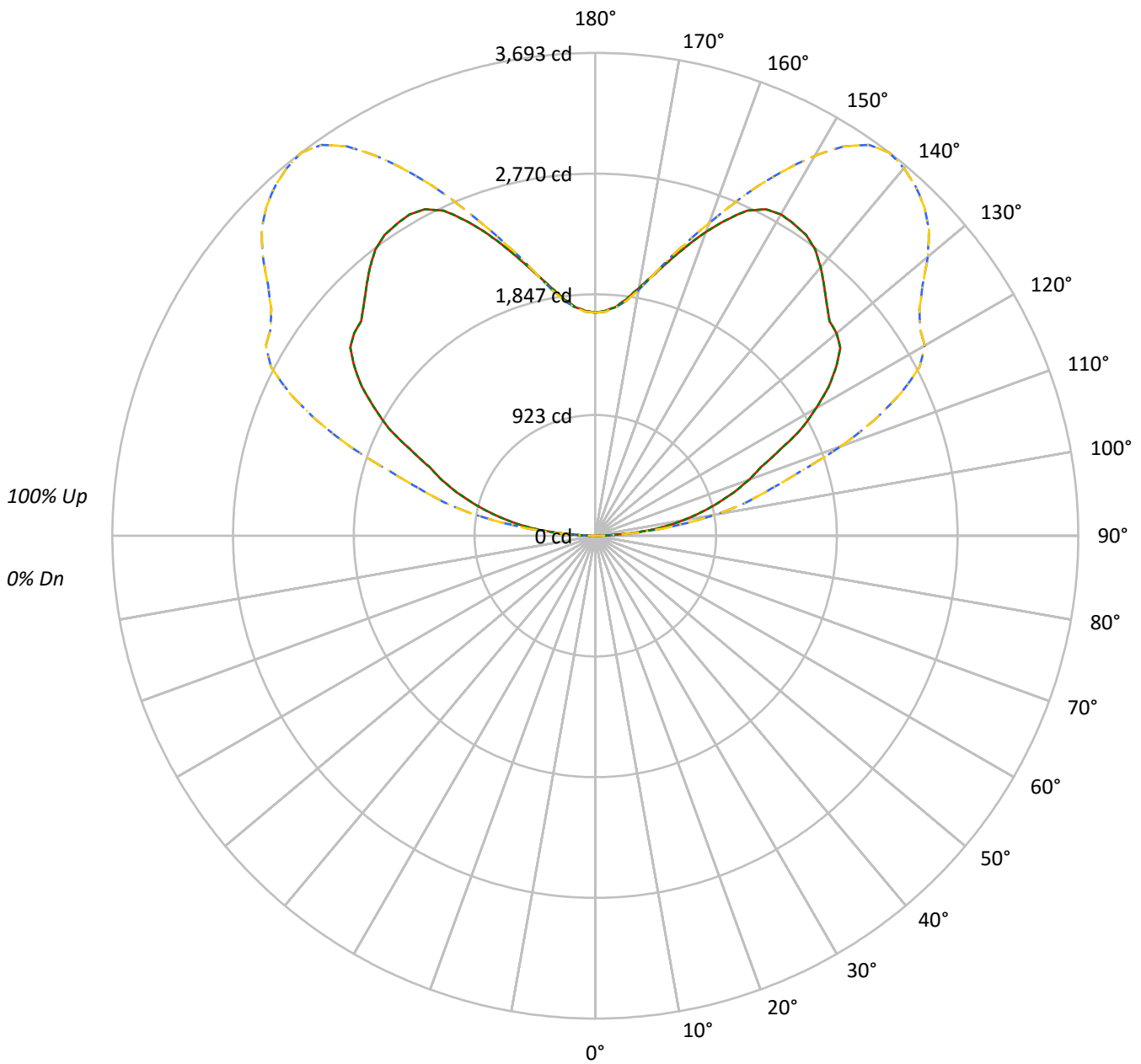
Summary

Lumens per Lamp: 1800 (8 lamps)
Luminaire Lumens: 12918.8 lumens
Efficiency: 89.7%
Efficacy: 67.3 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Vertical Cylinder (Dia: 3.67' x H: 0.1')
CIE Type: Indirect

Input Watts (W): 192
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	85	85	85	85	73	73	73	73	50	50	50	29	29	29	9	9	9	0
1	78	74	71	68	66	63	61	59	43	42	40	25	24	24	8	8	8	0
2	71	65	60	55	60	55	51	48	38	35	33	22	21	20	7	7	6	0
3	64	57	51	46	55	49	44	40	33	30	28	19	18	16	6	6	5	0
4	59	50	43	39	50	43	38	33	29	26	24	17	15	14	5	5	5	0
5	54	44	38	33	46	38	32	28	26	23	20	15	13	12	5	4	4	0
6	49	39	33	28	42	34	28	24	23	20	17	14	12	10	4	4	3	0
7	45	35	29	24	38	30	25	21	21	17	15	12	10	9	4	3	3	0
8	42	32	25	21	36	27	22	18	19	15	13	11	9	8	4	3	3	0
9	39	29	22	18	33	25	20	16	17	14	11	10	8	7	3	3	2	0
10	36	26	20	16	31	22	17	14	16	12	10	9	7	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



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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°	2.6	0.0	0.0
90°-100°	431.9	3.3	3.0
100°-110°	1371.6	10.6	9.5
110°-120°	2114.6	16.4	14.7
120°-130°	2503.3	19.4	17.4
130°-140°	2379.0	18.4	16.5
140°-150°	1996.3	15.5	13.9
150°-160°	1317.2	10.2	9.1
160°-170°	629.7	4.9	4.4
170°-180°	172.6	1.3	1.2
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°	2.6	0.0	0.0
90°-120°	3918.1	30.3	27.2
90°-150°	10796.6	83.6	75.0
90°-180°	12916.0	100.0	89.7
0°-180°	12918.8	100.0	89.7

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°	18	18	18	18	18	23
95°	347	347	347	347	347	350
105°	971	971	971	971	971	1023
115°	1559	1559	1559	1559	1559	1561
125°	2247	2247	2247	2247	2247	1992
135°	2503	2503	2503	2503	2503	1946
145°	2808	2808	2808	2808	2808	1750
155°	2743	2743	2743	2743	2743	1258
165°	2173	2173	2173	2173	2173	627
175°	1755	1755	1755	1755	1755	173
180°	1705	1705	1705	1705	1705	



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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°	18.0	17.0	17.0	24.0	18.0	17.0	17.0	24.0	18.0	17.0	17.0
92.5°	134.9	122.3	130.9	154.3	134.9	122.3	130.9	154.3	134.9	122.3	130.9
95°	347.4	372.0	392.0	415.4	347.4	372.0	392.0	415.4	347.4	372.0	392.0
97.5°	531.4	631.4	658.9	686.3	531.4	631.4	658.9	686.3	531.4	631.4	658.9
100°	680.0	918.3	939.4	933.7	680.0	918.3	939.4	933.7	680.0	918.3	939.4
102.5°	826.3	1215.4	1184.0	1188.6	826.3	1215.4	1184.0	1188.6	826.3	1215.4	1184.0
105°	971.4	1437.1	1392.6	1422.9	971.4	1437.1	1392.6	1422.9	971.4	1437.1	1392.6
107.5°	1113.7	1625.7	1648.0	1624.6	1113.7	1625.7	1648.0	1624.6	1113.7	1625.7	1648.0
110°	1249.1	1790.9	1996.0	1775.4	1249.1	1790.9	1996.0	1775.4	1249.1	1790.9	1996.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	1371.4	1962.3	2305.7	1961.1	1371.4	1962.3	2305.7	1961.1	1371.4	1962.3	2305.7
115°	1559.4	2192.6	2576.0	2237.1	1559.4	2192.6	2576.0	2237.1	1559.4	2192.6	2576.0
117.5°	1780.6	2424.6	2794.9	2502.3	1780.6	2424.6	2794.9	2502.3	1780.6	2424.6	2794.9
120°	1946.3	2644.6	2908.0	2705.7	1946.3	2644.6	2908.0	2705.7	1946.3	2644.6	2908.0
122.5°	2113.7	2830.9	2942.9	2897.1	2113.7	2830.9	2942.9	2897.1	2113.7	2830.9	2942.9
125°	2246.9	2967.4	3024.6	3031.4	2246.9	2967.4	3024.6	3031.4	2246.9	2967.4	3024.6
127.5°	2361.1	3029.1	3154.9	3086.9	2361.1	3029.1	3154.9	3086.9	2361.1	3029.1	3154.9
130°	2408.6	3008.0	3316.6	3104.0	2408.6	3008.0	3316.6	3104.0	2408.6	3008.0	3316.6
132.5°	2428.0	3026.3	3460.6	3149.1	2428.0	3026.3	3460.6	3149.1	2428.0	3026.3	3460.6
135°	2502.9	3069.7	3557.1	3176.6	2502.9	3069.7	3557.1	3176.6	2502.9	3069.7	3557.1
137.5°	2589.1	3111.4	3625.1	3216.0	2589.1	3111.4	3625.1	3216.0	2589.1	3111.4	3625.1
140°	2680.6	3145.1	3669.7	3242.3	2680.6	3145.1	3669.7	3242.3	2680.6	3145.1	3669.7
142.5°	2761.1	3148.6	3692.6	3235.4	2761.1	3148.6	3692.6	3235.4	2761.1	3148.6	3692.6
145°	2808.0	3127.4	3649.1	3207.4	2808.0	3127.4	3649.1	3207.4	2808.0	3127.4	3649.1
147.5°	2826.9	3103.4	3529.1	3170.9	2826.9	3103.4	3529.1	3170.9	2826.9	3103.4	3529.1
150°	2838.9	3065.7	3354.9	3110.9	2838.9	3065.7	3354.9	3110.9	2838.9	3065.7	3354.9
152.5°	2815.4	2977.1	3157.7	3009.1	2815.4	2977.1	3157.7	3009.1	2815.4	2977.1	3157.7
155°	2743.4	2833.1	2954.3	2854.9	2743.4	2833.1	2954.3	2854.9	2743.4	2833.1	2954.3
157.5°	2613.7	2666.3	2743.4	2684.0	2613.7	2666.3	2743.4	2684.0	2613.7	2666.3	2743.4
160°	2473.1	2494.3	2545.7	2513.1	2473.1	2494.3	2545.7	2513.1	2473.1	2494.3	2545.7
162.5°	2322.3	2325.7	2362.3	2334.9	2322.3	2325.7	2362.3	2334.9	2322.3	2325.7	2362.3
165°	2173.1	2170.3	2197.7	2177.1	2173.1	2170.3	2197.7	2177.1	2173.1	2170.3	2197.7
167.5°	2039.4	2033.7	2039.4	2038.9	2039.4	2033.7	2039.4	2038.9	2039.4	2033.7	2039.4
170°	1924.6	1916.0	1908.0	1917.1	1924.6	1916.0	1908.0	1917.1	1924.6	1916.0	1908.0
172.5°	1824.6	1820.0	1811.4	1822.9	1824.6	1820.0	1811.4	1822.9	1824.6	1820.0	1811.4
175°	1755.4	1750.9	1749.1	1762.3	1755.4	1750.9	1749.1	1762.3	1755.4	1750.9	1749.1
177.5°	1721.7	1718.3	1715.4	1727.4	1721.7	1718.3	1715.4	1727.4	1721.7	1718.3	1715.4
180°	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1



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CATALOG NUMBER: 1270-44-CFL/8/27

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°	24.0	18.0	17.0	17.0	24.0	18.0
92.5°	154.3	134.9	122.3	130.9	154.3	134.9
95°	415.4	347.4	372.0	392.0	415.4	347.4
97.5°	686.3	531.4	631.4	658.9	686.3	531.4
100°	933.7	680.0	918.3	939.4	933.7	680.0
102.5°	1188.6	826.3	1215.4	1184.0	1188.6	826.3
105°	1422.9	971.4	1437.1	1392.6	1422.9	971.4
107.5°	1624.6	1113.7	1625.7	1648.0	1624.6	1113.7
110°	1775.4	1249.1	1790.9	1996.0	1775.4	1249.1



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	1961.1	1371.4	1962.3	2305.7	1961.1	1371.4
115°	2237.1	1559.4	2192.6	2576.0	2237.1	1559.4
117.5°	2502.3	1780.6	2424.6	2794.9	2502.3	1780.6
120°	2705.7	1946.3	2644.6	2908.0	2705.7	1946.3
122.5°	2897.1	2113.7	2830.9	2942.9	2897.1	2113.7
125°	3031.4	2246.9	2967.4	3024.6	3031.4	2246.9
127.5°	3086.9	2361.1	3029.1	3154.9	3086.9	2361.1
130°	3104.0	2408.6	3008.0	3316.6	3104.0	2408.6
132.5°	3149.1	2428.0	3026.3	3460.6	3149.1	2428.0
135°	3176.6	2502.9	3069.7	3557.1	3176.6	2502.9
137.5°	3216.0	2589.1	3111.4	3625.1	3216.0	2589.1
140°	3242.3	2680.6	3145.1	3669.7	3242.3	2680.6
142.5°	3235.4	2761.1	3148.6	3692.6	3235.4	2761.1
145°	3207.4	2808.0	3127.4	3649.1	3207.4	2808.0
147.5°	3170.9	2826.9	3103.4	3529.1	3170.9	2826.9
150°	3110.9	2838.9	3065.7	3354.9	3110.9	2838.9
152.5°	3009.1	2815.4	2977.1	3157.7	3009.1	2815.4
155°	2854.9	2743.4	2833.1	2954.3	2854.9	2743.4
157.5°	2684.0	2613.7	2666.3	2743.4	2684.0	2613.7
160°	2513.1	2473.1	2494.3	2545.7	2513.1	2473.1
162.5°	2334.9	2322.3	2325.7	2362.3	2334.9	2322.3
165°	2177.1	2173.1	2170.3	2197.7	2177.1	2173.1
167.5°	2038.9	2039.4	2033.7	2039.4	2038.9	2039.4
170°	1917.1	1924.6	1916.0	1908.0	1917.1	1924.6
172.5°	1822.9	1824.6	1820.0	1811.4	1822.9	1824.6
175°	1762.3	1755.4	1750.9	1749.1	1762.3	1755.4
177.5°	1727.4	1721.7	1718.3	1715.4	1727.4	1721.7
180°	1705.1	1705.1	1705.1	1705.1	1705.1	1705.1

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