

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/6/27-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/6/27-T5C/1/40  
Description: SHAPER 36 INCH 1215 SERIES DIRECT/INDIRECT INDOOR PENDANT FIXTURE  
WITH SHALLOW BOWL  
Light Source: SIX 24 WATT BIAx COMPACT FLUORESCENT LAMPS AND ONE 40 WATTS T5 CIRCLINE  
(6)F24BX - 1800 LUMENS AND (1)TL5C40W/830 - 3300 LUMENS  
Ballast/Driver: -

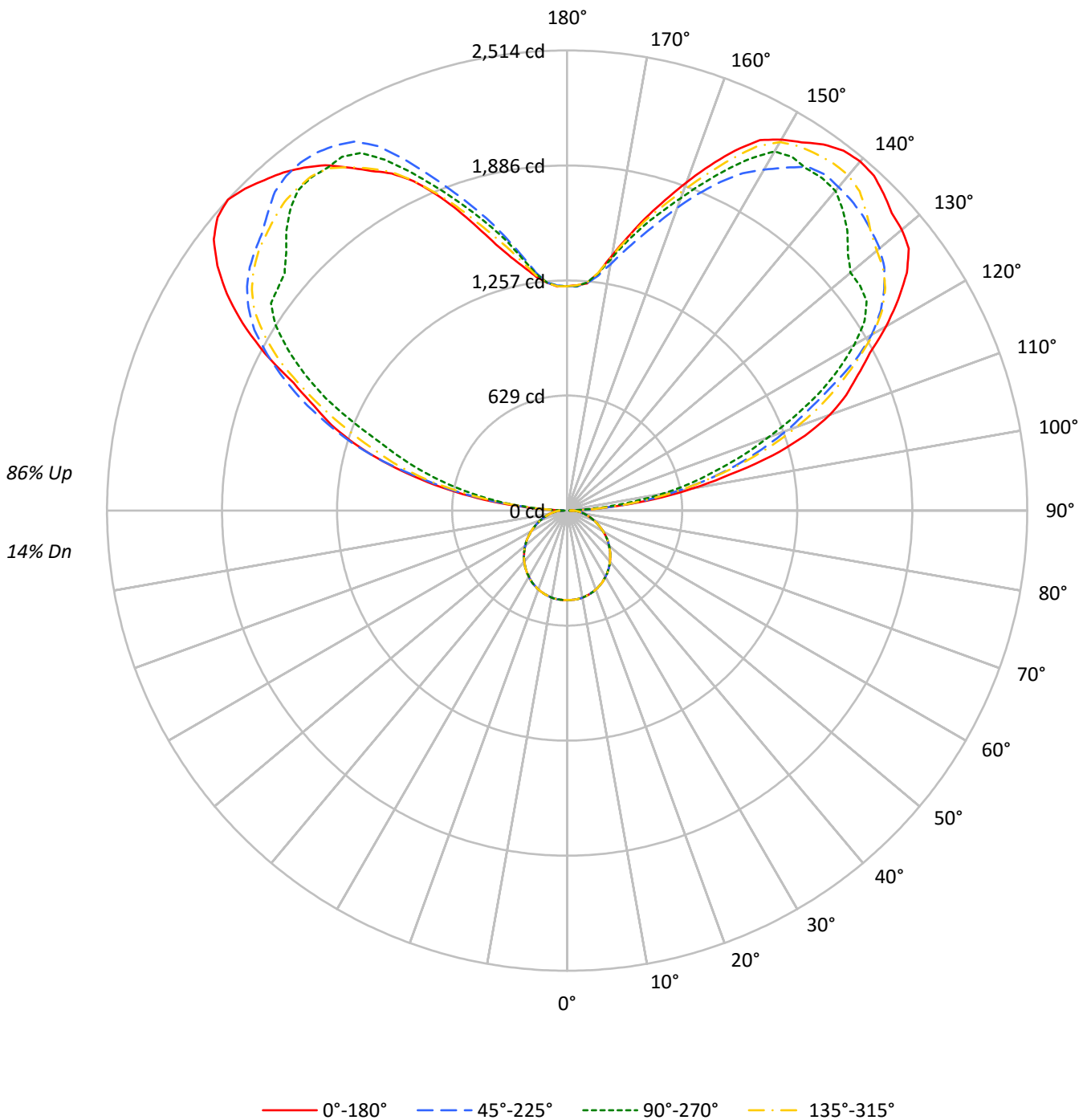
**Summary**

Lumens per Lamp: 14100 (1 lamp)  
Luminaire Lumens: 11072.4 lumens  
Efficiency: 78.5%  
Efficacy: 60.2 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: Semi-Indirect

Input Watts (W): 184  
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	77	77	77	77	68	68	68	68	50	50	50	33	33	33	18	18	18	11
1	70	67	64	61	61	59	56	54	43	41	40	29	28	27	15	15	15	9
2	64	58	54	50	56	51	47	44	38	35	33	25	24	22	13	13	12	7
3	58	51	46	41	51	45	40	37	33	30	28	22	20	19	12	11	10	6
4	53	45	39	35	46	40	35	31	29	26	23	19	18	16	11	10	9	5
5	48	40	34	29	42	35	30	26	26	22	20	17	15	14	9	8	8	4
6	44	36	30	25	39	31	26	23	23	20	17	16	13	12	8	7	7	4
7	41	32	26	22	36	28	23	20	21	17	15	14	12	10	8	7	6	3
8	38	29	23	19	33	25	20	17	19	15	13	13	11	9	7	6	5	3
9	35	26	21	17	31	23	18	15	17	14	11	12	10	8	6	5	5	3
10	33	24	18	15	28	21	16	13	16	12	10	11	9	7	6	5	4	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	0.4	0.3
10°-20°	133.5	1.2	0.9
20°-30°	203.1	1.8	1.4
30°-40°	245.8	2.2	1.7
40°-50°	256.7	2.3	1.8
50°-60°	235.8	2.1	1.7
60°-70°	188.3	1.7	1.3
70°-80°	128.2	1.2	0.9
80°-90°	68.2	0.6	0.5
90°-100°	283.1	2.6	2.0
100°-110°	1022.1	9.2	7.2
110°-120°	1605.3	14.5	11.4
120°-130°	1886.9	17.0	13.4
130°-140°	1775.2	16.0	12.6
140°-150°	1458.2	13.2	10.3
150°-160°	953.4	8.6	6.8
160°-170°	458.7	4.1	3.3
170°-180°	123.7	1.1	0.9
0°-30°	382.9	3.5	2.7
0°-40°	628.7	5.7	4.5
0°-60°	1121.2	10.1	8.0
0°-90°	1505.8	13.6	10.7
90°-120°	2910.5	26.3	20.6
90°-150°	8030.8	72.5	57.0
90°-180°	9567.0	86.4	67.9
0°-180°	11072.4	100.0	78.5

**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	26
95°	258	182	254	210	258	309
105°	1163	840	1046	807	1163	1201
115°	1752	1521	1649	1456	1752	1744
125°	2266	1997	2333	1975	2266	2007
135°	2446	2164	2487	2169	2446	1891
145°	2442	2280	2303	2285	2442	1529
155°	2170	2052	1986	2045	2170	1003
165°	1654	1609	1506	1604	1654	476
175°	1246	1250	1249	1249	1246	124
180°	1226	1226	1226	1226	1226	



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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°	92.6	85.7	73.7	87.4	81.1	64.0	49.7	66.3	92.6	85.7	73.7
95°	257.7	233.7	210.3	241.7	253.7	205.7	182.3	212.6	257.7	233.7	210.3
97.5°	481.7	407.4	370.3	427.4	456.6	389.1	352.6	412.6	481.7	407.4	370.3
100°	699.4	582.3	517.1	594.9	659.4	580.0	530.3	603.4	699.4	582.3	517.1
102.5°	912.0	750.3	664.0	764.0	852.6	769.7	693.7	785.1	912.0	750.3	664.0
105°	1163.4	920.6	806.9	924.6	1045.7	932.0	840.0	1000.6	1163.4	920.6	806.9
107.5°	1363.4	1096.6	945.7	1081.1	1220.6	1065.7	1009.1	1192.0	1363.4	1096.6	945.7
110°	1526.3	1268.6	1084.6	1242.9	1372.0	1228.0	1166.9	1355.4	1526.3	1268.6	1084.6



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**CANDELA DISTRIBUTION (continued):**

	0°	20°	30°	40°	60°	80°	90°	100°	120°	140°	150°
112.5°	1650.9	1449.1	1266.9	1394.3	1497.1	1409.1	1343.4	1532.0	1650.9	1449.1	1266.9
115°	1752.0	1612.6	1456.0	1564.0	1649.1	1582.9	1520.6	1693.1	1752.0	1612.6	1456.0
117.5°	1865.7	1766.3	1617.7	1744.0	1862.9	1738.9	1672.0	1841.1	1865.7	1766.3	1617.7
120°	2012.0	1905.7	1762.9	1880.0	2048.6	1859.4	1810.9	1959.4	2012.0	1905.7	1762.9
122.5°	2144.0	2006.9	1890.3	1973.1	2204.6	1964.6	1926.9	2038.9	2144.0	2006.9	1890.3
125°	2265.7	2073.7	1975.4	2042.9	2333.1	2025.7	1997.1	2091.4	2265.7	2073.7	1975.4
127.5°	2352.6	2116.6	1992.6	2101.1	2433.7	2067.4	2017.1	2129.7	2352.6	2116.6	1992.6
130°	2387.4	2148.6	2015.4	2140.0	2493.1	2105.1	2021.1	2166.3	2387.4	2148.6	2015.4
132.5°	2405.7	2199.4	2081.7	2171.4	2514.3	2136.6	2080.0	2206.3	2405.7	2199.4	2081.7
135°	2446.3	2264.6	2169.1	2213.7	2487.4	2184.0	2164.0	2265.1	2446.3	2264.6	2169.1
137.5°	2481.1	2326.9	2237.1	2248.0	2449.1	2233.1	2229.1	2324.0	2481.1	2326.9	2237.1
140°	2489.7	2357.7	2285.7	2272.0	2410.9	2256.6	2280.0	2353.1	2489.7	2357.7	2285.7
142.5°	2478.9	2361.1	2294.9	2298.9	2361.7	2279.4	2289.7	2367.4	2478.9	2361.1	2294.9
145°	2442.3	2355.4	2285.1	2288.6	2303.4	2274.3	2280.0	2368.0	2442.3	2355.4	2285.1
147.5°	2385.7	2350.9	2290.9	2221.1	2221.1	2224.6	2290.3	2357.1	2385.7	2350.9	2290.9
150°	2340.0	2320.0	2256.6	2152.6	2142.9	2162.9	2265.1	2323.4	2340.0	2320.0	2256.6
152.5°	2281.7	2228.6	2161.1	2078.3	2076.0	2089.1	2168.6	2233.7	2281.7	2228.6	2161.1
155°	2170.3	2099.4	2045.1	1979.4	1985.7	1988.0	2052.0	2104.6	2170.3	2099.4	2045.1
157.5°	2041.1	1968.6	1927.4	1873.1	1870.9	1881.7	1933.1	1973.1	2041.1	1968.6	1927.4
160°	1908.6	1846.9	1814.3	1766.3	1745.7	1776.0	1816.6	1850.9	1908.6	1846.9	1814.3
162.5°	1777.7	1736.6	1706.9	1658.9	1618.3	1666.9	1709.7	1739.4	1777.7	1736.6	1706.9
165°	1653.7	1631.4	1604.0	1560.6	1505.7	1570.9	1609.1	1630.3	1653.7	1631.4	1604.0
167.5°	1529.7	1518.9	1501.7	1466.9	1417.1	1476.6	1504.0	1517.7	1529.7	1518.9	1501.7
170°	1414.9	1409.7	1394.3	1372.0	1348.0	1379.4	1398.9	1409.1	1414.9	1409.7	1394.3
172.5°	1308.6	1310.9	1304.0	1295.4	1287.4	1298.3	1306.3	1310.9	1308.6	1310.9	1304.0
175°	1245.7	1252.6	1249.1	1245.7	1248.6	1248.0	1250.3	1250.9	1245.7	1252.6	1249.1
177.5°	1232.0	1231.4	1228.0	1224.6	1225.7	1226.3	1228.6	1230.9	1232.0	1231.4	1228.0
180°	1225.7	1225.7	1225.7	1225.7	1225.7	1225.7	1225.7	1225.7	1225.7	1225.7	1225.7



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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°	87.4	81.1	64.0	49.7	66.3	92.6	85.7	73.7	87.4	81.1	64.0
95°	241.7	253.7	205.7	182.3	212.6	257.7	233.7	210.3	241.7	253.7	205.7
97.5°	427.4	456.6	389.1	352.6	412.6	481.7	407.4	370.3	427.4	456.6	389.1
100°	594.9	659.4	580.0	530.3	603.4	699.4	582.3	517.1	594.9	659.4	580.0
102.5°	764.0	852.6	769.7	693.7	785.1	912.0	750.3	664.0	764.0	852.6	769.7
105°	924.6	1045.7	932.0	840.0	1000.6	1163.4	920.6	806.9	924.6	1045.7	932.0
107.5°	1081.1	1220.6	1065.7	1009.1	1192.0	1363.4	1096.6	945.7	1081.1	1220.6	1065.7
110°	1242.9	1372.0	1228.0	1166.9	1355.4	1526.3	1268.6	1084.6	1242.9	1372.0	1228.0





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**CANDELA DISTRIBUTION (continued):**

	160°	180°	200°	210°	220°	240°	260°	270°	280°	300°	320°
112.5°	1394.3	1497.1	1409.1	1343.4	1532.0	1650.9	1449.1	1266.9	1394.3	1497.1	1409.1
115°	1564.0	1649.1	1582.9	1520.6	1693.1	1752.0	1612.6	1456.0	1564.0	1649.1	1582.9
117.5°	1744.0	1862.9	1738.9	1672.0	1841.1	1865.7	1766.3	1617.7	1744.0	1862.9	1738.9
120°	1880.0	2048.6	1859.4	1810.9	1959.4	2012.0	1905.7	1762.9	1880.0	2048.6	1859.4
122.5°	1973.1	2204.6	1964.6	1926.9	2038.9	2144.0	2006.9	1890.3	1973.1	2204.6	1964.6
125°	2042.9	2333.1	2025.7	1997.1	2091.4	2265.7	2073.7	1975.4	2042.9	2333.1	2025.7
127.5°	2101.1	2433.7	2067.4	2017.1	2129.7	2352.6	2116.6	1992.6	2101.1	2433.7	2067.4
130°	2140.0	2493.1	2105.1	2021.1	2166.3	2387.4	2148.6	2015.4	2140.0	2493.1	2105.1
132.5°	2171.4	2514.3	2136.6	2080.0	2206.3	2405.7	2199.4	2081.7	2171.4	2514.3	2136.6
135°	2213.7	2487.4	2184.0	2164.0	2265.1	2446.3	2264.6	2169.1	2213.7	2487.4	2184.0
137.5°	2248.0	2449.1	2233.1	2229.1	2324.0	2481.1	2326.9	2237.1	2248.0	2449.1	2233.1
140°	2272.0	2410.9	2256.6	2280.0	2353.1	2489.7	2357.7	2285.7	2272.0	2410.9	2256.6
142.5°	2298.9	2361.7	2279.4	2289.7	2367.4	2478.9	2361.1	2294.9	2298.9	2361.7	2279.4
145°	2288.6	2303.4	2274.3	2280.0	2368.0	2442.3	2355.4	2285.1	2288.6	2303.4	2274.3
147.5°	2221.1	2221.1	2224.6	2290.3	2357.1	2385.7	2350.9	2290.9	2221.1	2221.1	2224.6
150°	2152.6	2142.9	2162.9	2265.1	2323.4	2340.0	2320.0	2256.6	2152.6	2142.9	2162.9
152.5°	2078.3	2076.0	2089.1	2168.6	2233.7	2281.7	2228.6	2161.1	2078.3	2076.0	2089.1
155°	1979.4	1985.7	1988.0	2052.0	2104.6	2170.3	2099.4	2045.1	1979.4	1985.7	1988.0
157.5°	1873.1	1870.9	1881.7	1933.1	1973.1	2041.1	1968.6	1927.4	1873.1	1870.9	1881.7
160°	1766.3	1745.7	1776.0	1816.6	1850.9	1908.6	1846.9	1814.3	1766.3	1745.7	1776.0
162.5°	1658.9	1618.3	1666.9	1709.7	1739.4	1777.7	1736.6	1706.9	1658.9	1618.3	1666.9
165°	1560.6	1505.7	1570.9	1609.1	1630.3	1653.7	1631.4	1604.0	1560.6	1505.7	1570.9
167.5°	1466.9	1417.1	1476.6	1504.0	1517.7	1529.7	1518.9	1501.7	1466.9	1417.1	1476.6
170°	1372.0	1348.0	1379.4	1398.9	1409.1	1414.9	1409.7	1394.3	1372.0	1348.0	1379.4
172.5°	1295.4	1287.4	1298.3	1306.3	1310.9	1308.6	1310.9	1304.0	1295.4	1287.4	1298.3
175°	1245.7	1248.6	1248.0	1250.3	1250.9	1245.7	1252.6	1249.1	1245.7	1248.6	1248.0
177.5°	1224.6	1225.7	1226.3	1228.6	1230.9	1232.0	1231.4	1228.0	1224.6	1225.7	1226.3
180°	1225.7	1225.7	1225.7	1225.7	1225.7	1225.7	1225.7	1225.7	1225.7	1225.7	1225.7



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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°	49.7	66.3	92.6
95°	182.3	212.6	257.7
97.5°	352.6	412.6	481.7
100°	530.3	603.4	699.4
102.5°	693.7	785.1	912.0
105°	840.0	1000.6	1163.4
107.5°	1009.1	1192.0	1363.4
110°	1166.9	1355.4	1526.3



TEST NUMBER: 253P232

CATALOG NUMBER: 1215-XX-36-CFL/6/27-T5C/1/40

**CANDELA DISTRIBUTION (continued):**

	330°	340°	360°
112.5°	1343.4	1532.0	1650.9
115°	1520.6	1693.1	1752.0
117.5°	1672.0	1841.1	1865.7
120°	1810.9	1959.4	2012.0
122.5°	1926.9	2038.9	2144.0
125°	1997.1	2091.4	2265.7
127.5°	2017.1	2129.7	2352.6
130°	2021.1	2166.3	2387.4
132.5°	2080.0	2206.3	2405.7
135°	2164.0	2265.1	2446.3
137.5°	2229.1	2324.0	2481.1
140°	2280.0	2353.1	2489.7
142.5°	2289.7	2367.4	2478.9
145°	2280.0	2368.0	2442.3
147.5°	2290.3	2357.1	2385.7
150°	2265.1	2323.4	2340.0
152.5°	2168.6	2233.7	2281.7
155°	2052.0	2104.6	2170.3
157.5°	1933.1	1973.1	2041.1
160°	1816.6	1850.9	1908.6
162.5°	1709.7	1739.4	1777.7
165°	1609.1	1630.3	1653.7
167.5°	1504.0	1517.7	1529.7
170°	1398.9	1409.1	1414.9
172.5°	1306.3	1310.9	1308.6
175°	1250.3	1250.9	1245.7
177.5°	1228.6	1230.9	1232.0
180°	1225.7	1225.7	1225.7

(END OF REPORT)