

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: 253P227

Luminaire Tested: **1215-XX-36-CFL/3/32-T5C/1/40**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 253P227
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 1215-XX-36-CFL/3/32-T5C/1/40
Description: SHAPER 36 INCH 1215 SERIES DIRECT/INDIRECT INDOOR PENDANT FIXTURE
WITH SHALLOW BOWL
Light Source: THREE 32 WATT PLT FLUORESCENT LAMP AND ONE 40 WATTS CIRCLINE FLUORESCENT
(3)CF32DT/EIN841 - 2400 LUMENS AND (1)TL5C40W/830 - 3300 LUMENS
Ballast/Driver: -

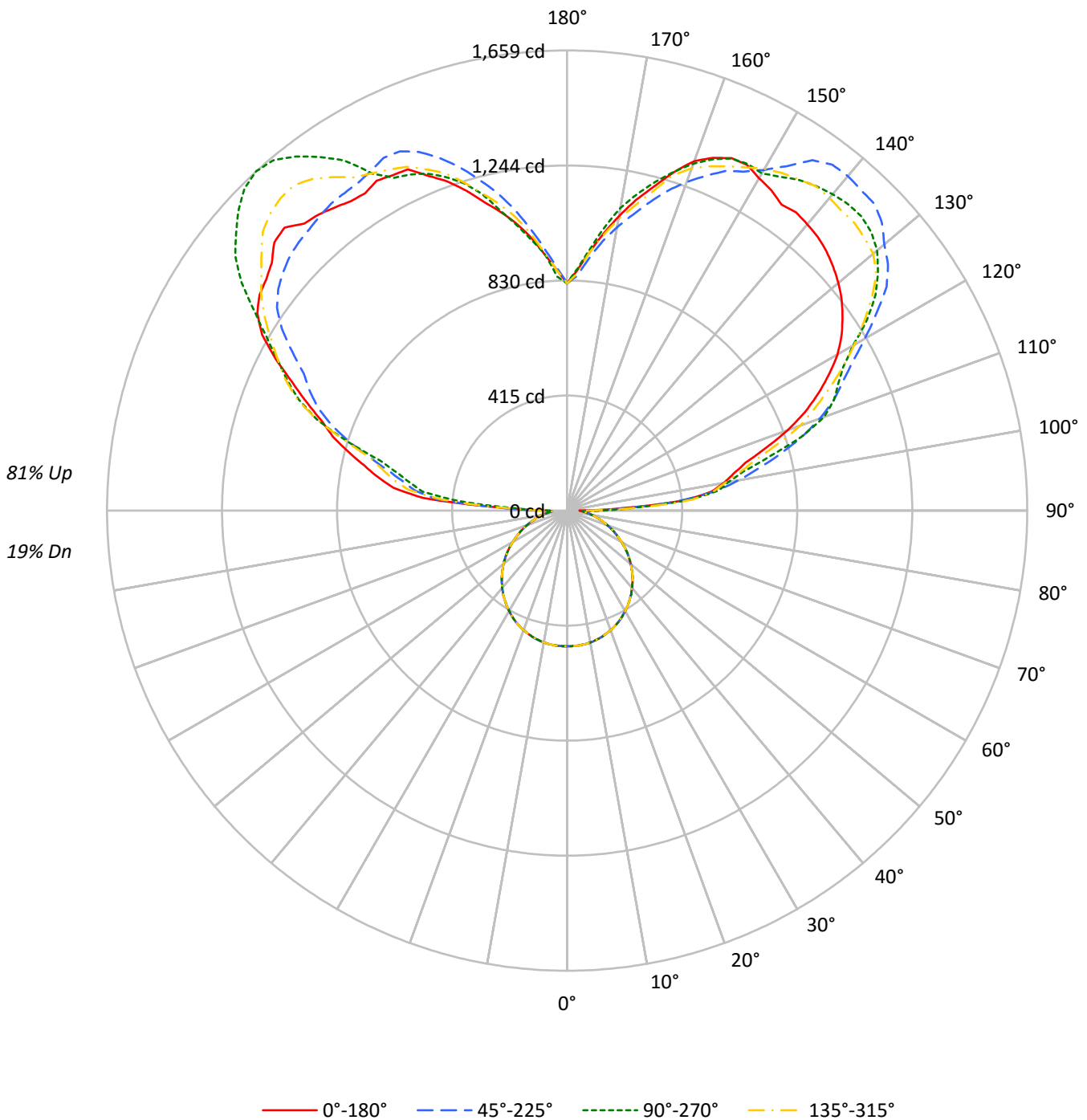
Summary

Lumens per Lamp: 10500 (1 lamp)
Luminaire Lumens: 8106.5 lumens
Efficiency: 77.2%
Efficacy: 59.6 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): 136
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	51	51	51	35	35	35	21	21	21	14
1	70	67	64	61	61	59	56	54	44	42	41	31	30	29	18	18	17	12
2	63	58	53	49	56	51	47	44	38	36	34	27	25	24	16	15	14	10
3	58	51	45	41	51	45	40	37	34	31	28	23	22	20	14	13	12	8
4	53	45	39	34	46	40	35	31	30	26	24	21	19	17	12	11	10	7
5	48	40	34	29	42	35	30	26	27	23	20	19	16	15	11	10	9	6
6	44	35	29	25	39	31	26	23	24	20	18	17	14	13	10	9	8	5
7	41	32	26	22	36	28	23	20	21	18	15	15	13	11	9	8	7	4
8	38	29	23	19	33	25	21	17	19	16	13	14	11	10	8	7	6	4
9	35	26	20	17	31	23	18	15	18	14	12	13	10	9	8	6	5	4
10	33	24	18	15	29	21	16	13	16	13	11	11	9	8	7	6	5	3

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	0.6	0.4
10°-20°	133.5	1.6	1.3
20°-30°	203.1	2.5	1.9
30°-40°	245.8	3.0	2.3
40°-50°	256.7	3.2	2.4
50°-60°	235.8	2.9	2.2
60°-70°	188.3	2.3	1.8
70°-80°	128.2	1.6	1.2
80°-90°	75.7	0.9	0.7
90°-100°	427.8	5.3	4.1
100°-110°	795.7	9.8	7.6
110°-120°	1060.6	13.1	10.1
120°-130°	1191.8	14.7	11.4
130°-140°	1136.3	14.0	10.8
140°-150°	912.4	11.3	8.7
150°-160°	634.3	7.8	6.0
160°-170°	341.0	4.2	3.2
170°-180°	93.3	1.2	0.9
0°-30°	382.9	4.7	3.6
0°-40°	628.7	7.8	6.0
0°-60°	1121.2	13.8	10.7
0°-90°	1513.3	18.7	14.4
90°-120°	2284.2	28.2	21.8
90°-150°	5524.6	68.2	52.6
90°-180°	6593.0	81.3	62.8
0°-180°	8106.5	100.0	77.2

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°	44	120	75	59	44	47
95°	423	439	520	391	423	363
105°	665	758	815	698	665	724
115°	999	1078	1093	1113	999	985
125°	1212	1358	1354	1433	1212	1083
135°	1322	1500	1442	1644	1322	1020
145°	1347	1456	1361	1556	1347	853
155°	1402	1400	1358	1337	1402	642
165°	1209	1226	1150	1180	1209	347
175°	936	946	927	929	936	94
180°	819	819	819	819	819	



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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°	44.0	73.0	59.0	59.0	75.0	75.0	120.0	96.0	44.0	73.0	59.0
92.5°	201.0	279.0	184.5	220.5	235.5	224.2	240.8	262.5	201.0	279.0	184.5
95°	423.0	463.5	390.8	370.5	520.5	432.0	438.8	486.8	423.0	463.5	390.8
97.5°	525.0	534.8	526.5	510.8	632.2	558.0	550.5	563.2	525.0	534.8	526.5
100°	573.8	579.0	573.8	606.0	691.5	616.5	590.2	606.8	573.8	579.0	573.8
102.5°	614.2	645.0	625.5	696.0	748.5	657.8	650.2	671.2	614.2	645.0	625.5
105°	665.2	711.0	698.2	793.5	815.2	705.8	757.5	755.2	665.2	711.0	698.2
107.5°	750.8	807.8	831.8	891.0	885.0	825.8	885.0	846.0	750.8	807.8	831.8
110°	845.2	909.8	959.2	979.5	939.8	967.5	985.5	924.0	845.2	909.8	959.2



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CANDELA DISTRIBUTION (continued):

	0°	20°	30°	40°	60°	80°	90°	100°	120°	140°	150°
112.5°	927.8	979.5	1047.8	1047.8	1014.0	1067.2	1041.0	988.5	927.8	979.5	1047.8
115°	999.0	1057.5	1113.0	1096.5	1092.8	1131.8	1077.8	1032.8	999.0	1057.5	1113.0
117.5°	1065.0	1137.8	1176.8	1151.2	1184.2	1172.2	1122.0	1072.5	1065.0	1137.8	1176.8
120°	1125.8	1218.8	1251.0	1228.5	1269.8	1219.5	1189.5	1150.5	1125.8	1218.8	1251.0
122.5°	1173.0	1301.2	1335.8	1320.8	1324.5	1281.0	1282.5	1235.2	1173.0	1301.2	1335.8
125°	1212.0	1385.2	1433.2	1422.8	1354.5	1344.0	1357.5	1299.0	1212.0	1385.2	1433.2
127.5°	1248.0	1456.5	1508.2	1488.0	1368.0	1396.5	1412.2	1334.2	1248.0	1456.5	1508.2
130°	1276.5	1494.8	1557.8	1527.0	1389.8	1455.0	1458.8	1356.8	1276.5	1494.8	1557.8
132.5°	1301.2	1504.5	1606.5	1574.2	1431.8	1506.8	1486.5	1374.8	1301.2	1504.5	1606.5
135°	1322.2	1513.5	1644.0	1606.5	1442.2	1538.2	1500.0	1383.8	1322.2	1513.5	1644.0
137.5°	1338.0	1507.5	1659.0	1622.2	1403.2	1570.5	1498.5	1389.0	1338.0	1507.5	1659.0
140°	1347.0	1512.8	1648.5	1635.0	1393.5	1576.5	1488.8	1399.5	1347.0	1512.8	1648.5
142.5°	1355.2	1512.8	1608.8	1635.8	1377.0	1551.0	1474.5	1410.0	1355.2	1512.8	1608.8
145°	1347.0	1494.0	1556.2	1602.0	1361.2	1503.0	1455.8	1415.2	1347.0	1494.0	1556.2
147.5°	1369.5	1467.0	1496.2	1510.5	1356.0	1446.8	1427.2	1412.2	1369.5	1467.0	1496.2
150°	1383.8	1434.8	1402.5	1432.5	1373.2	1414.5	1404.0	1423.5	1383.8	1434.8	1402.5
152.5°	1404.8	1392.0	1352.2	1382.2	1362.8	1393.5	1409.2	1443.0	1404.8	1392.0	1352.2
155°	1401.8	1358.2	1337.2	1348.5	1357.5	1371.0	1400.2	1437.8	1401.8	1358.2	1337.2
157.5°	1376.2	1332.0	1314.8	1305.8	1305.8	1340.2	1371.0	1407.8	1376.2	1332.0	1314.8
160°	1341.0	1304.2	1279.5	1260.0	1263.0	1305.8	1330.5	1358.2	1341.0	1304.2	1279.5
162.5°	1279.5	1261.5	1237.5	1209.8	1209.0	1252.5	1281.0	1306.5	1279.5	1261.5	1237.5
165°	1209.0	1184.2	1180.5	1151.2	1150.5	1196.2	1226.2	1246.5	1209.0	1184.2	1180.5
167.5°	1146.8	1119.0	1106.2	1089.0	1101.8	1141.5	1169.2	1185.0	1146.8	1119.0	1106.2
170°	1077.8	1061.2	1044.0	1032.8	1050.0	1083.8	1107.8	1112.2	1077.8	1061.2	1044.0
172.5°	1007.2	999.8	983.2	975.0	991.5	1010.2	1029.8	1033.5	1007.2	999.8	983.2
175°	936.0	935.2	929.2	908.2	927.0	932.2	945.8	954.0	936.0	935.2	929.2
177.5°	868.5	851.2	844.5	840.8	868.5	867.8	874.5	880.5	868.5	851.2	844.5
180°	819.0	819.0	819.0	819.0	819.0	819.0	819.0	819.0	819.0	819.0	819.0



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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°	59.0	75.0	75.0	120.0	96.0	44.0	73.0	59.0	59.0	75.0	75.0
92.5°	220.5	235.5	224.2	240.8	262.5	201.0	279.0	184.5	220.5	235.5	224.2
95°	370.5	520.5	432.0	438.8	486.8	423.0	463.5	390.8	370.5	520.5	432.0
97.5°	510.8	632.2	558.0	550.5	563.2	525.0	534.8	526.5	510.8	632.2	558.0
100°	606.0	691.5	616.5	590.2	606.8	573.8	579.0	573.8	606.0	691.5	616.5
102.5°	696.0	748.5	657.8	650.2	671.2	614.2	645.0	625.5	696.0	748.5	657.8
105°	793.5	815.2	705.8	757.5	755.2	665.2	711.0	698.2	793.5	815.2	705.8
107.5°	891.0	885.0	825.8	885.0	846.0	750.8	807.8	831.8	891.0	885.0	825.8
110°	979.5	939.8	967.5	985.5	924.0	845.2	909.8	959.2	979.5	939.8	967.5



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CANDELA DISTRIBUTION (continued):

	160°	180°	200°	210°	220°	240°	260°	270°	280°	300°	320°
112.5°	1047.8	1014.0	1067.2	1041.0	988.5	927.8	979.5	1047.8	1047.8	1014.0	1067.2
115°	1096.5	1092.8	1131.8	1077.8	1032.8	999.0	1057.5	1113.0	1096.5	1092.8	1131.8
117.5°	1151.2	1184.2	1172.2	1122.0	1072.5	1065.0	1137.8	1176.8	1151.2	1184.2	1172.2
120°	1228.5	1269.8	1219.5	1189.5	1150.5	1125.8	1218.8	1251.0	1228.5	1269.8	1219.5
122.5°	1320.8	1324.5	1281.0	1282.5	1235.2	1173.0	1301.2	1335.8	1320.8	1324.5	1281.0
125°	1422.8	1354.5	1344.0	1357.5	1299.0	1212.0	1385.2	1433.2	1422.8	1354.5	1344.0
127.5°	1488.0	1368.0	1396.5	1412.2	1334.2	1248.0	1456.5	1508.2	1488.0	1368.0	1396.5
130°	1527.0	1389.8	1455.0	1458.8	1356.8	1276.5	1494.8	1557.8	1527.0	1389.8	1455.0
132.5°	1574.2	1431.8	1506.8	1486.5	1374.8	1301.2	1504.5	1606.5	1574.2	1431.8	1506.8
135°	1606.5	1442.2	1538.2	1500.0	1383.8	1322.2	1513.5	1644.0	1606.5	1442.2	1538.2
137.5°	1622.2	1403.2	1570.5	1498.5	1389.0	1338.0	1507.5	1659.0	1622.2	1403.2	1570.5
140°	1635.0	1393.5	1576.5	1488.8	1399.5	1347.0	1512.8	1648.5	1635.0	1393.5	1576.5
142.5°	1635.8	1377.0	1551.0	1474.5	1410.0	1355.2	1512.8	1608.8	1635.8	1377.0	1551.0
145°	1602.0	1361.2	1503.0	1455.8	1415.2	1347.0	1494.0	1556.2	1602.0	1361.2	1503.0
147.5°	1510.5	1356.0	1446.8	1427.2	1412.2	1369.5	1467.0	1496.2	1510.5	1356.0	1446.8
150°	1432.5	1373.2	1414.5	1404.0	1423.5	1383.8	1434.8	1402.5	1432.5	1373.2	1414.5
152.5°	1382.2	1362.8	1393.5	1409.2	1443.0	1404.8	1392.0	1352.2	1382.2	1362.8	1393.5
155°	1348.5	1357.5	1371.0	1400.2	1437.8	1401.8	1358.2	1337.2	1348.5	1357.5	1371.0
157.5°	1305.8	1305.8	1340.2	1371.0	1407.8	1376.2	1332.0	1314.8	1305.8	1305.8	1340.2
160°	1260.0	1263.0	1305.8	1330.5	1358.2	1341.0	1304.2	1279.5	1260.0	1263.0	1305.8
162.5°	1209.8	1209.0	1252.5	1281.0	1306.5	1279.5	1261.5	1237.5	1209.8	1209.0	1252.5
165°	1151.2	1150.5	1196.2	1226.2	1246.5	1209.0	1184.2	1180.5	1151.2	1150.5	1196.2
167.5°	1089.0	1101.8	1141.5	1169.2	1185.0	1146.8	1119.0	1106.2	1089.0	1101.8	1141.5
170°	1032.8	1050.0	1083.8	1107.8	1112.2	1077.8	1061.2	1044.0	1032.8	1050.0	1083.8
172.5°	975.0	991.5	1010.2	1029.8	1033.5	1007.2	999.8	983.2	975.0	991.5	1010.2
175°	908.2	927.0	932.2	945.8	954.0	936.0	935.2	929.2	908.2	927.0	932.2
177.5°	840.8	868.5	867.8	874.5	880.5	868.5	851.2	844.5	840.8	868.5	867.8
180°	819.0	819.0	819.0	819.0	819.0	819.0	819.0	819.0	819.0	819.0	819.0



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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°	120.0	96.0	44.0
92.5°	240.8	262.5	201.0
95°	438.8	486.8	423.0
97.5°	550.5	563.2	525.0
100°	590.2	606.8	573.8
102.5°	650.2	671.2	614.2
105°	757.5	755.2	665.2
107.5°	885.0	846.0	750.8
110°	985.5	924.0	845.2



TEST NUMBER: 253P227

CATALOG NUMBER: 1215-XX-36-CFL/3/32-T5C/1/40

CANDELA DISTRIBUTION (continued):

	330°	340°	360°
112.5°	1041.0	988.5	927.8
115°	1077.8	1032.8	999.0
117.5°	1122.0	1072.5	1065.0
120°	1189.5	1150.5	1125.8
122.5°	1282.5	1235.2	1173.0
125°	1357.5	1299.0	1212.0
127.5°	1412.2	1334.2	1248.0
130°	1458.8	1356.8	1276.5
132.5°	1486.5	1374.8	1301.2
135°	1500.0	1383.8	1322.2
137.5°	1498.5	1389.0	1338.0
140°	1488.8	1399.5	1347.0
142.5°	1474.5	1410.0	1355.2
145°	1455.8	1415.2	1347.0
147.5°	1427.2	1412.2	1369.5
150°	1404.0	1423.5	1383.8
152.5°	1409.2	1443.0	1404.8
155°	1400.2	1437.8	1401.8
157.5°	1371.0	1407.8	1376.2
160°	1330.5	1358.2	1341.0
162.5°	1281.0	1306.5	1279.5
165°	1226.2	1246.5	1209.0
167.5°	1169.2	1185.0	1146.8
170°	1107.8	1112.2	1077.8
172.5°	1029.8	1033.5	1007.2
175°	945.8	954.0	936.0
177.5°	874.5	880.5	868.5
180°	819.0	819.0	819.0

(END OF REPORT)