

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: 253p172

Luminaire Tested: **1200-OB-36-CFL/3/39**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 253p172
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 1200-OB-36-CFL/3/39
Description: SHAPER 36 INCH 1200 SERIES DIRECT/INDIRECT INDOOR PENDANT FIXTURE
Light Source: THREE - F39BX - 2850 LUMENS - 39 WATTS THREE GX24 T4 COMPACT FLUORESCENT LAMPS
Ballast/Driver: -

Summary

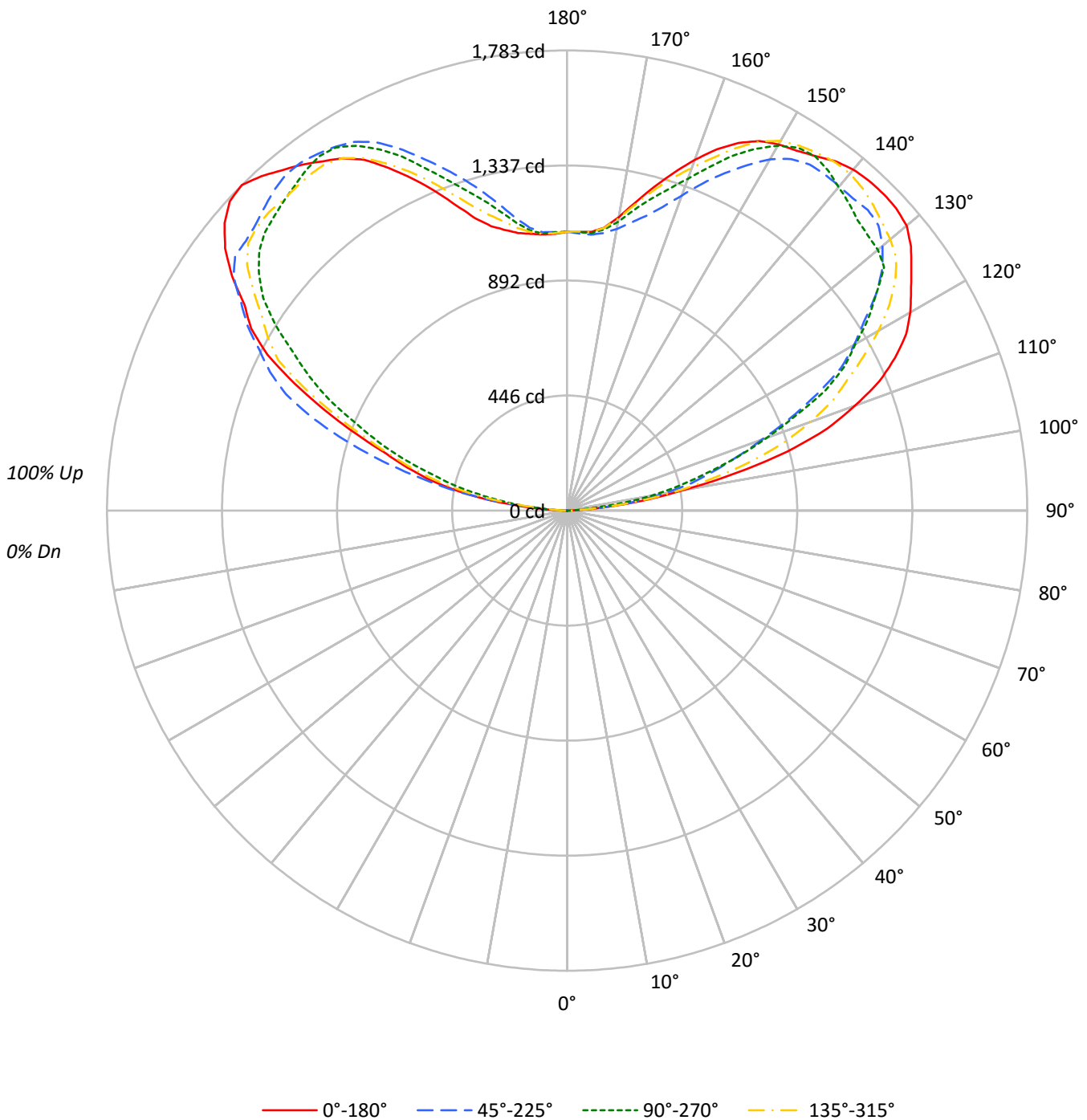
Lumens per Lamp: 2850 (3 lamps)
Luminaire Lumens: 6842.4 lumens
Efficiency: 80.0%
Efficacy: 136.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Vertical Cylinder (Dia: 3' x H: 0.1')
CIE Type: Indirect

Input Watts (W): 50
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	76	76	76	76	65	65	65	65	44	44	44	26	26	26	8	8	8	0
1	69	66	63	61	59	57	54	52	39	37	36	22	22	21	7	7	7	0
2	63	58	53	49	54	49	46	43	34	32	30	20	18	17	6	6	6	0
3	57	51	45	41	49	43	39	36	30	27	25	17	16	15	6	5	5	0
4	52	45	39	34	45	38	33	30	26	23	21	15	14	12	5	4	4	0
5	48	39	33	29	41	34	29	25	23	20	18	13	12	11	4	4	3	0
6	44	35	29	25	37	30	25	22	21	18	15	12	10	9	4	3	3	0
7	40	31	26	22	34	27	22	19	19	16	13	11	9	8	4	3	3	0
8	37	28	23	19	32	24	20	16	17	14	12	10	8	7	3	3	2	0
9	34	26	20	16	29	22	17	14	15	12	10	9	7	6	3	2	2	0
10	32	23	18	14	27	20	16	13	14	11	9	8	6	5	3	2	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	0	0	0	0
5°	2	0	2	2
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°	0.1	0.0	0.0
90°-100°	164.0	2.4	1.9
100°-110°	698.8	10.2	8.2
110°-120°	1146.9	16.8	13.4
120°-130°	1353.3	19.8	15.8
130°-140°	1283.2	18.8	15.0
140°-150°	1042.0	15.2	12.2
150°-160°	695.4	10.2	8.1
160°-170°	354.0	5.2	4.1
170°-180°	104.6	1.5	1.2
0°-30°	0.1	0.0	0.0
0°-40°	0.1	0.0	0.0
0°-60°	0.1	0.0	0.0
0°-90°	0.2	0.0	0.0
90°-120°	2009.7	29.4	23.5
90°-150°	5688.1	83.1	66.5
90°-180°	6842.0	100.0	80.0
0°-180°	6842.4	100.0	80.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	0	0	0	0	0	
5°	1	0	1	1	1	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°	1	0	1	1	1	3
95°	136	67	151	113	136	181
105°	882	556	639	539	882	903
115°	1402	1106	1164	1018	1402	1376
125°	1628	1461	1585	1438	1628	1459
135°	1734	1592	1783	1608	1734	1339
145°	1676	1676	1652	1676	1676	1056
155°	1572	1517	1420	1514	1572	725
165°	1297	1250	1141	1243	1297	372
175°	1084	1079	1074	1077	1084	106
180°	1080	1080	1080	1080	1080	



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CANDELA DISTRIBUTION (FULL):

	0°	20°	30°	40°	60°	80°	90°	100°	120°	140°	150°
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°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	1.0	1.0	1.0	1.0
7.5°	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
10°	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
15°	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	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°	1.0	2.0	1.0	2.0	1.0	0.0	0.0	1.0	1.0	2.0	1.0
92.5°	22.6	25.3	24.4	37.1	40.7	18.1	13.6	20.8	22.6	25.3	24.4
95°	135.7	127.6	113.1	136.6	151.1	77.8	67.0	100.4	135.7	127.6	113.1
97.5°	292.2	271.4	219.9	255.1	291.3	219.0	197.2	270.5	292.2	271.4	219.9
100°	454.2	422.5	329.3	366.4	423.4	357.4	329.3	431.6	454.2	422.5	329.3
102.5°	665.9	549.2	444.2	478.6	539.2	486.8	445.1	553.7	665.9	549.2	444.2
105°	882.1	694.0	539.2	569.1	638.8	599.0	555.5	693.0	882.1	694.0	539.2
107.5°	1057.7	826.0	663.2	670.4	735.6	709.3	692.1	846.0	1057.7	826.0	663.2
110°	1186.1	940.0	778.1	779.9	870.4	826.0	821.5	1003.4	1186.1	940.0	778.1



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CANDELA DISTRIBUTION (continued):

	0°	20°	30°	40°	60°	80°	90°	100°	120°	140°	150°
112.5°	1310.1	1047.7	888.5	908.4	1015.1	960.0	956.3	1135.5	1310.1	1047.7	888.5
115°	1402.4	1130.0	1017.9	1036.0	1164.4	1109.2	1105.6	1226.0	1402.4	1130.0	1017.9
117.5°	1481.1	1232.3	1126.4	1158.1	1310.1	1245.9	1212.4	1297.4	1481.1	1232.3	1126.4
120°	1535.4	1345.4	1226.0	1240.4	1414.1	1312.8	1289.3	1393.3	1535.4	1345.4	1226.0
122.5°	1579.7	1445.8	1340.0	1324.6	1482.0	1376.1	1383.4	1470.2	1579.7	1445.8	1340.0
125°	1627.7	1527.2	1437.7	1420.5	1585.1	1448.5	1461.2	1560.7	1627.7	1527.2	1437.7
127.5°	1679.2	1584.2	1505.5	1495.6	1670.2	1527.2	1548.0	1602.3	1679.2	1584.2	1505.5
130°	1717.2	1606.0	1558.0	1549.0	1732.6	1573.4	1571.6	1594.2	1717.2	1606.0	1558.0
132.5°	1730.8	1628.6	1590.6	1590.6	1773.3	1579.7	1579.7	1606.9	1730.8	1628.6	1590.6
135°	1734.4	1656.6	1607.8	1602.3	1783.3	1585.1	1591.5	1634.9	1734.4	1656.6	1607.8
137.5°	1732.6	1681.0	1625.9	1601.4	1756.1	1587.9	1615.9	1664.8	1732.6	1681.0	1625.9
140°	1724.5	1698.2	1643.0	1613.2	1720.9	1606.0	1636.7	1688.3	1724.5	1698.2	1643.0
142.5°	1706.4	1701.0	1662.0	1625.0	1689.2	1622.2	1661.1	1695.5	1706.4	1701.0	1662.0
145°	1676.5	1695.5	1675.6	1632.2	1652.1	1634.0	1675.6	1690.1	1676.5	1695.5	1675.6
147.5°	1653.9	1682.9	1668.4	1614.1	1618.6	1619.5	1666.6	1677.4	1653.9	1682.9	1668.4
150°	1638.5	1659.3	1632.2	1572.5	1568.9	1579.7	1632.2	1653.9	1638.5	1659.3	1632.2
152.5°	1614.1	1610.5	1577.9	1512.8	1495.6	1522.7	1579.7	1607.8	1614.1	1610.5	1577.9
155°	1571.6	1542.6	1513.7	1449.4	1419.6	1459.4	1517.3	1541.7	1571.6	1542.6	1513.7
157.5°	1514.6	1468.4	1435.0	1382.5	1340.0	1392.4	1440.4	1469.3	1514.6	1468.4	1435.0
160°	1445.8	1401.5	1364.4	1311.9	1258.5	1321.9	1368.0	1402.4	1445.8	1401.5	1364.4
162.5°	1371.6	1341.8	1300.1	1248.6	1188.0	1258.5	1305.6	1340.9	1371.6	1341.8	1300.1
165°	1297.4	1276.6	1243.1	1196.1	1140.9	1204.2	1249.5	1277.5	1297.4	1276.6	1243.1
167.5°	1222.3	1210.6	1185.2	1151.8	1113.8	1159.9	1191.6	1211.5	1222.3	1210.6	1185.2
170°	1154.5	1148.1	1131.9	1113.8	1092.0	1119.2	1136.4	1149.0	1154.5	1148.1	1131.9
172.5°	1105.6	1104.7	1094.8	1085.7	1081.2	1090.2	1098.4	1104.7	1105.6	1104.7	1094.8
175°	1083.9	1083.9	1076.7	1073.0	1074.0	1076.7	1079.4	1082.1	1083.9	1083.9	1076.7
177.5°	1081.2	1082.1	1079.4	1074.9	1073.0	1076.7	1079.4	1080.3	1081.2	1082.1	1079.4
180°	1080.3	1080.3	1080.3	1080.3	1080.3	1080.3	1080.3	1080.3	1080.3	1080.3	1080.3



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CANDELA DISTRIBUTION (continued):

	160°	180°	200°	210°	220°	240°	260°	270°	280°	300°	320°
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°	1.0	1.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
7.5°	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	0.0	0.0
10°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	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°	2.0	1.0	0.0	0.0	1.0	1.0	2.0	1.0	2.0	1.0	0.0
92.5°	37.1	40.7	18.1	13.6	20.8	22.6	25.3	24.4	37.1	40.7	18.1
95°	136.6	151.1	77.8	67.0	100.4	135.7	127.6	113.1	136.6	151.1	77.8
97.5°	255.1	291.3	219.0	197.2	270.5	292.2	271.4	219.9	255.1	291.3	219.0
100°	366.4	423.4	357.4	329.3	431.6	454.2	422.5	329.3	366.4	423.4	357.4
102.5°	478.6	539.2	486.8	445.1	553.7	665.9	549.2	444.2	478.6	539.2	486.8
105°	569.1	638.8	599.0	555.5	693.0	882.1	694.0	539.2	569.1	638.8	599.0
107.5°	670.4	735.6	709.3	692.1	846.0	1057.7	826.0	663.2	670.4	735.6	709.3
110°	779.9	870.4	826.0	821.5	1003.4	1186.1	940.0	778.1	779.9	870.4	826.0



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CATALOG NUMBER: 1200-OB-36-CFL/3/39

CANDELA DISTRIBUTION (continued):

	160°	180°	200°	210°	220°	240°	260°	270°	280°	300°	320°
112.5°	908.4	1015.1	960.0	956.3	1135.5	1310.1	1047.7	888.5	908.4	1015.1	960.0
115°	1036.0	1164.4	1109.2	1105.6	1226.0	1402.4	1130.0	1017.9	1036.0	1164.4	1109.2
117.5°	1158.1	1310.1	1245.9	1212.4	1297.4	1481.1	1232.3	1126.4	1158.1	1310.1	1245.9
120°	1240.4	1414.1	1312.8	1289.3	1393.3	1535.4	1345.4	1226.0	1240.4	1414.1	1312.8
122.5°	1324.6	1482.0	1376.1	1383.4	1470.2	1579.7	1445.8	1340.0	1324.6	1482.0	1376.1
125°	1420.5	1585.1	1448.5	1461.2	1560.7	1627.7	1527.2	1437.7	1420.5	1585.1	1448.5
127.5°	1495.6	1670.2	1527.2	1548.0	1602.3	1679.2	1584.2	1505.5	1495.6	1670.2	1527.2
130°	1549.0	1732.6	1573.4	1571.6	1594.2	1717.2	1606.0	1558.0	1549.0	1732.6	1573.4
132.5°	1590.6	1773.3	1579.7	1579.7	1606.9	1730.8	1628.6	1590.6	1590.6	1773.3	1579.7
135°	1602.3	1783.3	1585.1	1591.5	1634.9	1734.4	1656.6	1607.8	1602.3	1783.3	1585.1
137.5°	1601.4	1756.1	1587.9	1615.9	1664.8	1732.6	1681.0	1625.9	1601.4	1756.1	1587.9
140°	1613.2	1720.9	1606.0	1636.7	1688.3	1724.5	1698.2	1643.0	1613.2	1720.9	1606.0
142.5°	1625.0	1689.2	1622.2	1661.1	1695.5	1706.4	1701.0	1662.0	1625.0	1689.2	1622.2
145°	1632.2	1652.1	1634.0	1675.6	1690.1	1676.5	1695.5	1675.6	1632.2	1652.1	1634.0
147.5°	1614.1	1618.6	1619.5	1666.6	1677.4	1653.9	1682.9	1668.4	1614.1	1618.6	1619.5
150°	1572.5	1568.9	1579.7	1632.2	1653.9	1638.5	1659.3	1632.2	1572.5	1568.9	1579.7
152.5°	1512.8	1495.6	1522.7	1579.7	1607.8	1614.1	1610.5	1577.9	1512.8	1495.6	1522.7
155°	1449.4	1419.6	1459.4	1517.3	1541.7	1571.6	1542.6	1513.7	1449.4	1419.6	1459.4
157.5°	1382.5	1340.0	1392.4	1440.4	1469.3	1514.6	1468.4	1435.0	1382.5	1340.0	1392.4
160°	1311.9	1258.5	1321.9	1368.0	1402.4	1445.8	1401.5	1364.4	1311.9	1258.5	1321.9
162.5°	1248.6	1188.0	1258.5	1305.6	1340.9	1371.6	1341.8	1300.1	1248.6	1188.0	1258.5
165°	1196.1	1140.9	1204.2	1249.5	1277.5	1297.4	1276.6	1243.1	1196.1	1140.9	1204.2
167.5°	1151.8	1113.8	1159.9	1191.6	1211.5	1222.3	1210.6	1185.2	1151.8	1113.8	1159.9
170°	1113.8	1092.0	1119.2	1136.4	1149.0	1154.5	1148.1	1131.9	1113.8	1092.0	1119.2
172.5°	1085.7	1081.2	1090.2	1098.4	1104.7	1105.6	1104.7	1094.8	1085.7	1081.2	1090.2
175°	1073.0	1074.0	1076.7	1079.4	1082.1	1083.9	1083.9	1076.7	1073.0	1074.0	1076.7
177.5°	1074.9	1073.0	1076.7	1079.4	1080.3	1081.2	1082.1	1079.4	1074.9	1073.0	1076.7
180°	1080.3	1080.3	1080.3	1080.3	1080.3	1080.3	1080.3	1080.3	1080.3	1080.3	1080.3



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CANDELA DISTRIBUTION (continued):

	330°	340°	360°
0°	0.0	0.0	0.0
2.5°	0.0	0.0	0.0
5°	0.0	1.0	1.0
7.5°	0.0	0.0	1.0
10°	0.0	0.0	0.0
12.5°	0.0	0.0	0.0
15°	0.0	0.0	0.0
17.5°	0.0	0.0	0.0
20°	0.0	0.0	0.0
22.5°	0.0	0.0	0.0
25°	0.0	0.0	0.0
27.5°	0.0	0.0	0.0
30°	0.0	0.0	0.0
32.5°	0.0	0.0	0.0
35°	0.0	0.0	0.0
37.5°	0.0	0.0	0.0
40°	0.0	0.0	0.0
42.5°	0.0	0.0	0.0
45°	0.0	0.0	0.0
47.5°	0.0	0.0	0.0
50°	0.0	0.0	0.0
52.5°	0.0	0.0	0.0
55°	0.0	0.0	0.0
57.5°	0.0	0.0	0.0
60°	0.0	0.0	0.0
62.5°	0.0	0.0	0.0
65°	0.0	0.0	0.0
67.5°	0.0	0.0	0.0
70°	0.0	0.0	0.0
72.5°	0.0	0.0	0.0
75°	0.0	0.0	0.0
77.5°	0.0	0.0	0.0
80°	0.0	0.0	0.0
82.5°	0.0	0.0	0.0
85°	0.0	0.0	0.0
87.5°	0.0	0.0	0.0
90°	0.0	1.0	1.0
92.5°	13.6	20.8	22.6
95°	67.0	100.4	135.7
97.5°	197.2	270.5	292.2
100°	329.3	431.6	454.2
102.5°	445.1	553.7	665.9
105°	555.5	693.0	882.1
107.5°	692.1	846.0	1057.7
110°	821.5	1003.4	1186.1



TEST NUMBER: 253p172

CATALOG NUMBER: 1200-OB-36-CFL/3/39

CANDELA DISTRIBUTION (continued):

	330°	340°	360°
112.5°	956.3	1135.5	1310.1
115°	1105.6	1226.0	1402.4
117.5°	1212.4	1297.4	1481.1
120°	1289.3	1393.3	1535.4
122.5°	1383.4	1470.2	1579.7
125°	1461.2	1560.7	1627.7
127.5°	1548.0	1602.3	1679.2
130°	1571.6	1594.2	1717.2
132.5°	1579.7	1606.9	1730.8
135°	1591.5	1634.9	1734.4
137.5°	1615.9	1664.8	1732.6
140°	1636.7	1688.3	1724.5
142.5°	1661.1	1695.5	1706.4
145°	1675.6	1690.1	1676.5
147.5°	1666.6	1677.4	1653.9
150°	1632.2	1653.9	1638.5
152.5°	1579.7	1607.8	1614.1
155°	1517.3	1541.7	1571.6
157.5°	1440.4	1469.3	1514.6
160°	1368.0	1402.4	1445.8
162.5°	1305.6	1340.9	1371.6
165°	1249.5	1277.5	1297.4
167.5°	1191.6	1211.5	1222.3
170°	1136.4	1149.0	1154.5
172.5°	1098.4	1104.7	1105.6
175°	1079.4	1082.1	1083.9
177.5°	1079.4	1080.3	1081.2
180°	1080.3	1080.3	1080.3

(END OF REPORT)