

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: 253p171

Luminaire Tested: **1240-OB-36-CFL/6/27**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 253p171
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 1240-OB-36-CFL/6/27
Description: SHAPER 36 INCH 1240 SERIES DIRECT/INDIRECT INTERIOR TAPERED PENDANT
FIXTURE
[LAMP]SIX - F24BX - 1800 LUMENS - 24 WATTS SIX - GX24 T4
COMPACT FLUORESCENT LAMPS
Light Source: [MORE]SIX - F24BX - 1800 LUMENS - 24 WATTS SIX - GX24 T4
COMPACT FLUORESCENT LAMPS
Ballast/Driver: -

Summary

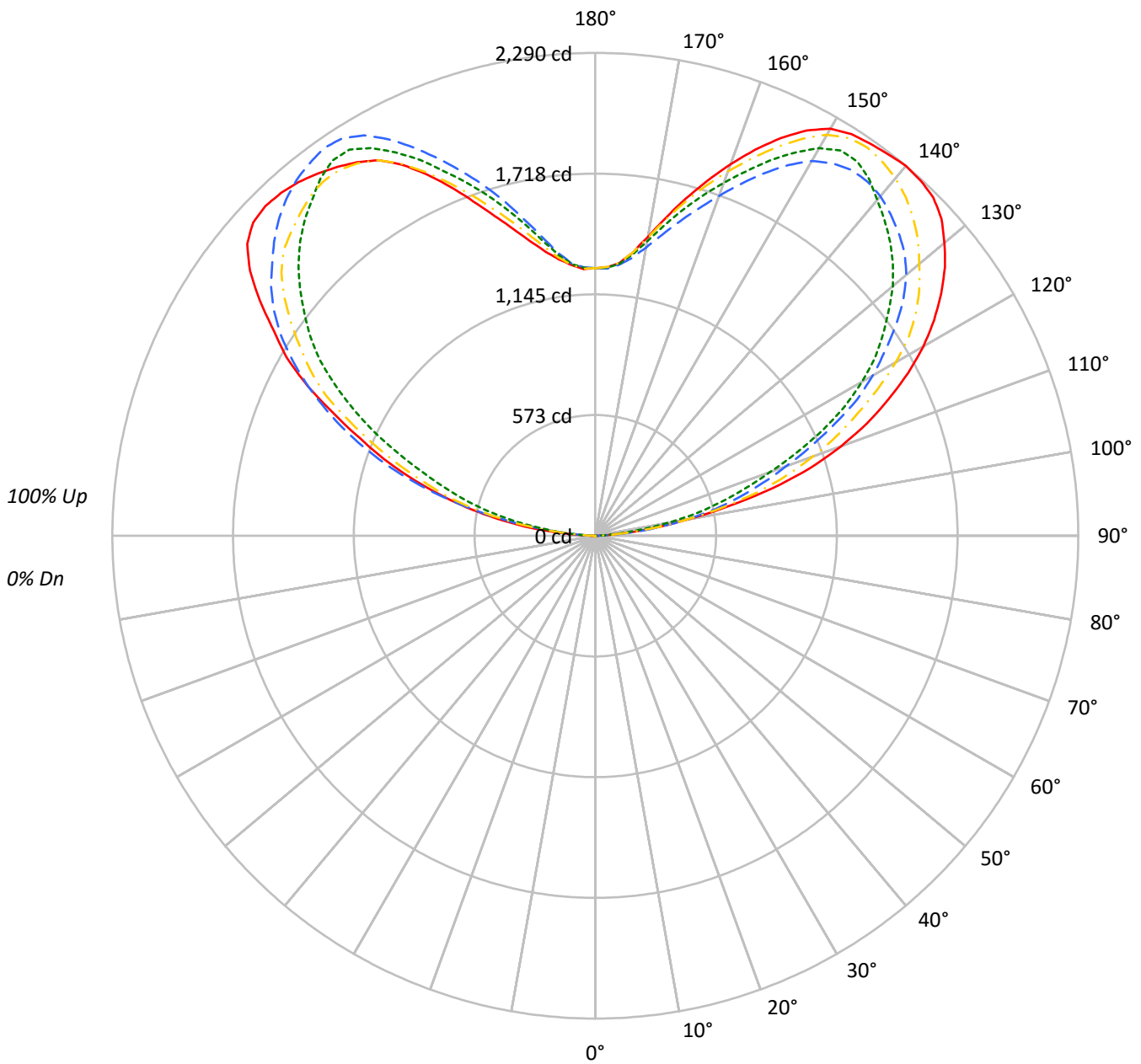
Lumens per Lamp: 1800 (6 lamps)
Luminaire Lumens: 8350.9 lumens
Efficiency: 77.3%
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.17 / 0.94
Luminous Opening: Vertical Cylinder (Dia: 3' x H: 0.1')
CIE Type: Indirect

Input Watts (W): 99
Input Voltage (V): NR
Input Current (A_{in}): 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	74	74	74	74	63	63	63	63	43	43	43	25	25	25	8	8	8	0
1	67	64	61	59	57	55	52	50	37	36	35	22	21	20	7	7	7	0
2	61	56	51	48	52	48	44	41	33	31	29	19	18	17	6	6	6	0
3	55	49	44	40	47	42	38	34	29	26	24	17	15	14	5	5	5	0
4	51	43	37	33	43	37	32	29	25	23	20	15	13	12	5	4	4	0
5	46	38	32	28	39	33	28	24	23	20	17	13	11	10	4	4	3	0
6	42	34	28	24	36	29	24	21	20	17	15	12	10	9	4	3	3	0
7	39	30	25	21	33	26	21	18	18	15	13	10	9	8	3	3	3	0
8	36	27	22	18	31	23	19	16	16	13	11	9	8	7	3	3	2	0
9	33	25	19	16	28	21	17	14	15	12	10	9	7	6	3	2	2	0
10	31	22	17	14	26	19	15	12	13	11	9	8	6	5	3	2	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5	5	5	5
5°	5	5	5	6
10°	5	5	5	6
15°	6	5	5	6
20°	5	5	5	5
25°	5	5	5	3
30°	3	5	3	3
35°	2	4	2	2
40°	2	0	2	2
45°	2	0	2	0
50°	0	0	2	0
55°	0	0	0	0
60°	3	0	0	3
65°	0	0	0	0
70°	0	0	0	0
75°	0	0	0	0
80°	7	0	7	7
85°	0	0	0	12



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.3	0.0	0.0
10°-20°	0.9	0.0	0.0
20°-30°	1.3	0.0	0.0
30°-40°	0.8	0.0	0.0
40°-50°	0.6	0.0	0.0
50°-60°	0.3	0.0	0.0
60°-70°	0.1	0.0	0.0
70°-80°	0.2	0.0	0.0
80°-90°	0.9	0.0	0.0
90°-100°	179.4	2.1	1.7
100°-110°	778.7	9.3	7.2
110°-120°	1307.0	15.7	12.1
120°-130°	1611.1	19.3	14.9
130°-140°	1610.6	19.3	14.9
140°-150°	1361.8	16.3	12.6
150°-160°	913.3	10.9	8.5
160°-170°	456.4	5.5	4.2
170°-180°	127.3	1.5	1.2
0°-30°	2.5	0.0	0.0
0°-40°	3.3	0.0	0.0
0°-60°	4.2	0.1	0.0
0°-90°	5.4	0.1	0.0
90°-120°	2265.0	27.1	21.0
90°-150°	6848.5	82.0	63.4
90°-180°	8346.0	99.9	77.3
0°-180°	8350.9	100.0	77.3

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3	3	3	3	3	
5°	3	3	3	4	3	0
15°	4	3	3	4	4	1
25°	3	3	3	2	3	1
35°	1	2	1	1	1	1
45°	1	0	1	0	1	1
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	1	0	0
90°	4	3	4	5	4	5
95°	128	88	181	129	128	172
105°	870	616	774	622	870	903
115°	1535	1194	1365	1149	1535	1515
125°	2001	1665	1941	1651	2001	1785
135°	2267	1975	2211	1978	2267	1742
145°	2270	2166	2135	2172	2270	1425
155°	2081	1965	1890	1966	2081	963
165°	1654	1599	1506	1598	1654	475
175°	1298	1294	1289	1294	1298	128
180°	1269	1269	1269	1269	1269	



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CANDELA DISTRIBUTION (FULL):

	0°	20°	30°	40°	60°	80°	90°	100°	120°	140°	150°
0°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
2.5°	4.0	4.0	4.0	4.0	4.0	3.0	3.0	4.0	4.0	4.0	4.0
5°	3.0	4.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	4.0	4.0
7.5°	4.0	4.0	4.0	4.0	3.0	3.0	3.0	3.0	4.0	4.0	4.0
10°	3.0	4.0	4.0	4.0	3.0	3.0	3.0	3.0	3.0	4.0	4.0
12.5°	3.0	3.0	3.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
15°	4.0	3.0	4.0	3.0	3.0	3.0	3.0	3.0	4.0	3.0	4.0
17.5°	3.0	4.0	3.0	4.0	3.0	3.0	3.0	3.0	3.0	4.0	3.0
20°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
22.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
25°	3.0	3.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.0
27.5°	3.0	2.0	2.0	3.0	2.0	3.0	3.0	3.0	3.0	2.0	2.0
30°	2.0	2.0	2.0	1.0	2.0	3.0	3.0	3.0	2.0	2.0	2.0
32.5°	1.0	1.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	2.0
35°	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0	1.0	1.0	1.0
37.5°	1.0	1.0	1.0	1.0	1.0	1.0	2.0	0.0	1.0	1.0	1.0
40°	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	1.0	1.0	1.0
42.5°	2.0	1.0	1.0	1.0	2.0	2.0	2.0	1.0	2.0	1.0	1.0
45°	1.0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	1.0	1.0	0.0
47.5°	0.0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0
50°	0.0	1.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0
52.5°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	1.0	1.0	1.0
55°	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
60°	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
62.5°	0.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	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	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
80°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	1.0	1.0	1.0	1.0
82.5°	0.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
85°	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
87.5°	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0
90°	4.0	4.0	5.0	5.0	4.0	3.0	3.0	3.0	4.0	4.0	5.0
92.5°	24.0	27.4	28.6	36.6	53.1	34.9	20.6	25.7	24.0	27.4	28.6
95°	128.0	136.0	129.1	149.1	181.1	132.0	88.0	112.6	128.0	136.0	129.1
97.5°	273.7	278.3	240.0	277.7	337.1	270.3	203.4	264.6	273.7	278.3	240.0
100°	441.7	441.1	369.1	422.3	479.4	423.4	343.4	441.1	441.7	441.1	369.1
102.5°	648.0	603.4	500.0	564.6	627.4	578.3	486.3	606.9	648.0	603.4	500.0
105°	869.7	766.9	622.3	684.6	773.7	712.6	616.0	766.3	869.7	766.9	622.3
107.5°	1068.0	913.1	736.0	801.7	921.7	835.4	742.9	926.3	1068.0	913.1	736.0
110°	1238.3	1050.3	861.7	928.6	1066.9	974.9	881.1	1080.0	1238.3	1050.3	861.7



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CANDELA DISTRIBUTION (continued):

	0°	20°	30°	40°	60°	80°	90°	100°	120°	140°	150°
112.5°	1394.3	1190.3	1000.6	1069.1	1208.0	1116.0	1036.0	1225.7	1394.3	1190.3	1000.6
115°	1534.9	1318.3	1148.6	1213.1	1365.1	1261.7	1193.7	1360.6	1534.9	1318.3	1148.6
117.5°	1670.9	1457.7	1287.4	1352.6	1537.1	1406.9	1336.6	1488.6	1670.9	1457.7	1287.4
120°	1796.0	1594.3	1421.1	1461.7	1689.1	1511.4	1458.9	1609.1	1796.0	1594.3	1421.1
122.5°	1904.6	1717.1	1547.4	1568.0	1805.7	1608.0	1573.1	1721.1	1904.6	1717.1	1547.4
125°	2001.1	1811.4	1650.9	1673.1	1940.6	1701.1	1665.1	1813.1	2001.1	1811.4	1650.9
127.5°	2089.1	1886.3	1738.9	1766.9	2064.0	1789.7	1752.6	1887.4	2089.1	1886.3	1738.9
130°	2161.1	1953.1	1828.0	1848.0	2154.3	1872.6	1841.1	1946.9	2161.1	1953.1	1828.0
132.5°	2225.7	2025.1	1909.1	1917.7	2200.0	1938.9	1913.7	2012.0	2225.7	2025.1	1909.1
135°	2266.9	2086.3	1978.3	1973.7	2211.4	1981.1	1975.4	2073.7	2266.9	2086.3	1978.3
137.5°	2284.0	2143.4	2037.1	2025.7	2205.1	2026.9	2029.7	2128.6	2284.0	2143.4	2037.1
140°	2289.7	2188.6	2085.7	2073.7	2189.1	2072.6	2078.9	2174.9	2289.7	2188.6	2085.7
142.5°	2280.6	2220.0	2138.9	2102.9	2164.6	2102.9	2132.6	2207.4	2280.6	2220.0	2138.9
145°	2270.3	2240.6	2172.0	2111.4	2134.9	2112.0	2166.3	2234.9	2270.3	2240.6	2172.0
147.5°	2258.9	2229.1	2171.4	2092.0	2100.6	2093.7	2165.7	2225.7	2258.9	2229.1	2171.4
150°	2229.1	2184.6	2123.4	2050.9	2056.0	2056.6	2122.3	2180.6	2229.1	2184.6	2123.4
152.5°	2166.3	2107.4	2049.1	1981.1	1984.0	1988.0	2048.6	2104.0	2166.3	2107.4	2049.1
155°	2080.6	2017.1	1966.3	1900.0	1890.3	1906.9	1965.1	2013.7	2080.6	2017.1	1966.3
157.5°	1981.1	1921.1	1870.3	1812.0	1789.7	1818.3	1871.4	1917.1	1981.1	1921.1	1870.3
160°	1874.3	1826.3	1781.1	1724.0	1686.3	1730.9	1781.1	1822.9	1874.3	1826.3	1781.1
162.5°	1764.6	1730.3	1690.3	1638.3	1589.7	1642.3	1690.3	1727.4	1764.6	1730.3	1690.3
165°	1654.3	1630.9	1598.3	1554.3	1506.3	1558.3	1599.4	1628.0	1654.3	1630.9	1598.3
167.5°	1544.0	1529.7	1505.7	1471.4	1431.4	1474.3	1505.7	1526.3	1544.0	1529.7	1505.7
170°	1440.0	1434.9	1416.6	1394.3	1368.0	1396.6	1417.7	1432.0	1440.0	1434.9	1416.6
172.5°	1353.1	1353.7	1342.9	1330.3	1322.3	1331.4	1344.0	1352.0	1353.1	1353.7	1342.9
175°	1297.7	1298.9	1293.7	1289.7	1288.6	1289.7	1293.7	1296.6	1297.7	1298.9	1293.7
177.5°	1274.9	1276.6	1272.6	1269.7	1265.7	1268.6	1272.0	1274.3	1274.9	1276.6	1272.6
180°	1268.6	1268.6	1268.6	1268.6	1268.6	1268.6	1268.6	1268.6	1268.6	1268.6	1268.6



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CANDELA DISTRIBUTION (continued):

	160°	180°	200°	210°	220°	240°	260°	270°	280°	300°	320°
0°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
2.5°	4.0	4.0	3.0	3.0	4.0	4.0	4.0	4.0	4.0	4.0	3.0
5°	3.0	3.0	3.0	3.0	3.0	3.0	4.0	4.0	3.0	3.0	3.0
7.5°	4.0	3.0	3.0	3.0	3.0	4.0	4.0	4.0	4.0	3.0	3.0
10°	4.0	3.0	3.0	3.0	3.0	3.0	4.0	4.0	4.0	3.0	3.0
12.5°	4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.0	3.0	3.0
15°	3.0	3.0	3.0	3.0	3.0	4.0	3.0	4.0	3.0	3.0	3.0
17.5°	4.0	3.0	3.0	3.0	3.0	3.0	4.0	3.0	4.0	3.0	3.0
20°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
22.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
25°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.0	3.0	3.0	3.0
27.5°	3.0	2.0	3.0	3.0	3.0	3.0	2.0	2.0	3.0	2.0	3.0
30°	1.0	2.0	3.0	3.0	3.0	2.0	2.0	2.0	1.0	2.0	3.0
32.5°	2.0	2.0	2.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0
35°	1.0	1.0	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
37.5°	1.0	1.0	1.0	2.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0
40°	1.0	1.0	1.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0
42.5°	1.0	2.0	2.0	2.0	1.0	2.0	1.0	1.0	1.0	2.0	2.0
45°	1.0	1.0	0.0	0.0	0.0	1.0	1.0	0.0	1.0	1.0	0.0
47.5°	1.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	1.0	0.0
50°	1.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	1.0	0.0
52.5°	1.0	1.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0
55°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0
60°	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	0.0	0.0
62.5°	1.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	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	1.0	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°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
75°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0
80°	1.0	1.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
82.5°	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0	0.0
85°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0
90°	5.0	4.0	3.0	3.0	3.0	4.0	4.0	5.0	5.0	4.0	3.0
92.5°	36.6	53.1	34.9	20.6	25.7	24.0	27.4	28.6	36.6	53.1	34.9
95°	149.1	181.1	132.0	88.0	112.6	128.0	136.0	129.1	149.1	181.1	132.0
97.5°	277.7	337.1	270.3	203.4	264.6	273.7	278.3	240.0	277.7	337.1	270.3
100°	422.3	479.4	423.4	343.4	441.1	441.7	441.1	369.1	422.3	479.4	423.4
102.5°	564.6	627.4	578.3	486.3	606.9	648.0	603.4	500.0	564.6	627.4	578.3
105°	684.6	773.7	712.6	616.0	766.3	869.7	766.9	622.3	684.6	773.7	712.6
107.5°	801.7	921.7	835.4	742.9	926.3	1068.0	913.1	736.0	801.7	921.7	835.4
110°	928.6	1066.9	974.9	881.1	1080.0	1238.3	1050.3	861.7	928.6	1066.9	974.9



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CANDELA DISTRIBUTION (continued):

	160°	180°	200°	210°	220°	240°	260°	270°	280°	300°	320°
112.5°	1069.1	1208.0	1116.0	1036.0	1225.7	1394.3	1190.3	1000.6	1069.1	1208.0	1116.0
115°	1213.1	1365.1	1261.7	1193.7	1360.6	1534.9	1318.3	1148.6	1213.1	1365.1	1261.7
117.5°	1352.6	1537.1	1406.9	1336.6	1488.6	1670.9	1457.7	1287.4	1352.6	1537.1	1406.9
120°	1461.7	1689.1	1511.4	1458.9	1609.1	1796.0	1594.3	1421.1	1461.7	1689.1	1511.4
122.5°	1568.0	1805.7	1608.0	1573.1	1721.1	1904.6	1717.1	1547.4	1568.0	1805.7	1608.0
125°	1673.1	1940.6	1701.1	1665.1	1813.1	2001.1	1811.4	1650.9	1673.1	1940.6	1701.1
127.5°	1766.9	2064.0	1789.7	1752.6	1887.4	2089.1	1886.3	1738.9	1766.9	2064.0	1789.7
130°	1848.0	2154.3	1872.6	1841.1	1946.9	2161.1	1953.1	1828.0	1848.0	2154.3	1872.6
132.5°	1917.7	2200.0	1938.9	1913.7	2012.0	2225.7	2025.1	1909.1	1917.7	2200.0	1938.9
135°	1973.7	2211.4	1981.1	1975.4	2073.7	2266.9	2086.3	1978.3	1973.7	2211.4	1981.1
137.5°	2025.7	2205.1	2026.9	2029.7	2128.6	2284.0	2143.4	2037.1	2025.7	2205.1	2026.9
140°	2073.7	2189.1	2072.6	2078.9	2174.9	2289.7	2188.6	2085.7	2073.7	2189.1	2072.6
142.5°	2102.9	2164.6	2102.9	2132.6	2207.4	2280.6	2220.0	2138.9	2102.9	2164.6	2102.9
145°	2111.4	2134.9	2112.0	2166.3	2234.9	2270.3	2240.6	2172.0	2111.4	2134.9	2112.0
147.5°	2092.0	2100.6	2093.7	2165.7	2225.7	2258.9	2229.1	2171.4	2092.0	2100.6	2093.7
150°	2050.9	2056.0	2056.6	2122.3	2180.6	2229.1	2184.6	2123.4	2050.9	2056.0	2056.6
152.5°	1981.1	1984.0	1988.0	2048.6	2104.0	2166.3	2107.4	2049.1	1981.1	1984.0	1988.0
155°	1900.0	1890.3	1906.9	1965.1	2013.7	2080.6	2017.1	1966.3	1900.0	1890.3	1906.9
157.5°	1812.0	1789.7	1818.3	1871.4	1917.1	1981.1	1921.1	1870.3	1812.0	1789.7	1818.3
160°	1724.0	1686.3	1730.9	1781.1	1822.9	1874.3	1826.3	1781.1	1724.0	1686.3	1730.9
162.5°	1638.3	1589.7	1642.3	1690.3	1727.4	1764.6	1730.3	1690.3	1638.3	1589.7	1642.3
165°	1554.3	1506.3	1558.3	1599.4	1628.0	1654.3	1630.9	1598.3	1554.3	1506.3	1558.3
167.5°	1471.4	1431.4	1474.3	1505.7	1526.3	1544.0	1529.7	1505.7	1471.4	1431.4	1474.3
170°	1394.3	1368.0	1396.6	1417.7	1432.0	1440.0	1434.9	1416.6	1394.3	1368.0	1396.6
172.5°	1330.3	1322.3	1331.4	1344.0	1352.0	1353.1	1353.7	1342.9	1330.3	1322.3	1331.4
175°	1289.7	1288.6	1289.7	1293.7	1296.6	1297.7	1298.9	1293.7	1289.7	1288.6	1289.7
177.5°	1269.7	1265.7	1268.6	1272.0	1274.3	1274.9	1276.6	1272.6	1269.7	1265.7	1268.6
180°	1268.6	1268.6	1268.6	1268.6	1268.6	1268.6	1268.6	1268.6	1268.6	1268.6	1268.6



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CANDELA DISTRIBUTION (continued):

	330°	340°	360°
0°	3.0	3.0	3.0
2.5°	3.0	4.0	4.0
5°	3.0	3.0	3.0
7.5°	3.0	3.0	4.0
10°	3.0	3.0	3.0
12.5°	3.0	3.0	3.0
15°	3.0	3.0	4.0
17.5°	3.0	3.0	3.0
20°	3.0	3.0	3.0
22.5°	3.0	3.0	3.0
25°	3.0	3.0	3.0
27.5°	3.0	3.0	3.0
30°	3.0	3.0	2.0
32.5°	1.0	1.0	1.0
35°	2.0	1.0	1.0
37.5°	2.0	0.0	1.0
40°	0.0	0.0	1.0
42.5°	2.0	1.0	2.0
45°	0.0	0.0	1.0
47.5°	0.0	0.0	0.0
50°	0.0	0.0	0.0
52.5°	0.0	0.0	1.0
55°	0.0	0.0	0.0
57.5°	0.0	0.0	0.0
60°	0.0	0.0	1.0
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	1.0	1.0
82.5°	0.0	0.0	0.0
85°	0.0	0.0	0.0
87.5°	0.0	0.0	1.0
90°	3.0	3.0	4.0
92.5°	20.6	25.7	24.0
95°	88.0	112.6	128.0
97.5°	203.4	264.6	273.7
100°	343.4	441.1	441.7
102.5°	486.3	606.9	648.0
105°	616.0	766.3	869.7
107.5°	742.9	926.3	1068.0
110°	881.1	1080.0	1238.3



TEST NUMBER: 253p171

CATALOG NUMBER: 1240-OB-36-CFL/6/27

CANDELA DISTRIBUTION (continued):

	330°	340°	360°
112.5°	1036.0	1225.7	1394.3
115°	1193.7	1360.6	1534.9
117.5°	1336.6	1488.6	1670.9
120°	1458.9	1609.1	1796.0
122.5°	1573.1	1721.1	1904.6
125°	1665.1	1813.1	2001.1
127.5°	1752.6	1887.4	2089.1
130°	1841.1	1946.9	2161.1
132.5°	1913.7	2012.0	2225.7
135°	1975.4	2073.7	2266.9
137.5°	2029.7	2128.6	2284.0
140°	2078.9	2174.9	2289.7
142.5°	2132.6	2207.4	2280.6
145°	2166.3	2234.9	2270.3
147.5°	2165.7	2225.7	2258.9
150°	2122.3	2180.6	2229.1
152.5°	2048.6	2104.0	2166.3
155°	1965.1	2013.7	2080.6
157.5°	1871.4	1917.1	1981.1
160°	1781.1	1822.9	1874.3
162.5°	1690.3	1727.4	1764.6
165°	1599.4	1628.0	1654.3
167.5°	1505.7	1526.3	1544.0
170°	1417.7	1432.0	1440.0
172.5°	1344.0	1352.0	1353.1
175°	1293.7	1296.6	1297.7
177.5°	1272.0	1274.3	1274.9
180°	1268.6	1268.6	1268.6

(END OF REPORT)