

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge or
Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: SHAPER

Report Number: 253P237

Luminaire Tested: **1215-XX-36-MH/3/39-T5C/1/40**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 253P237
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 1215-XX-36-MH/3/39-T5C/1/40
Description: SHAPER 36 INCH 1215 SERIES DIRECT/INDIRECT INDOOR PENDANT FIXTURE
WITH SHALLOW BOWL
Light Source: THREE 39 WATT T5 CERAMIC METAL HALIDE AND ONE 40 WATTS T5 CIRCLINE
(3)CDM39MH - 3400 LUMENS AND (1)TL5C40W/830 - 3300 LUMENS
Ballast/Driver: -

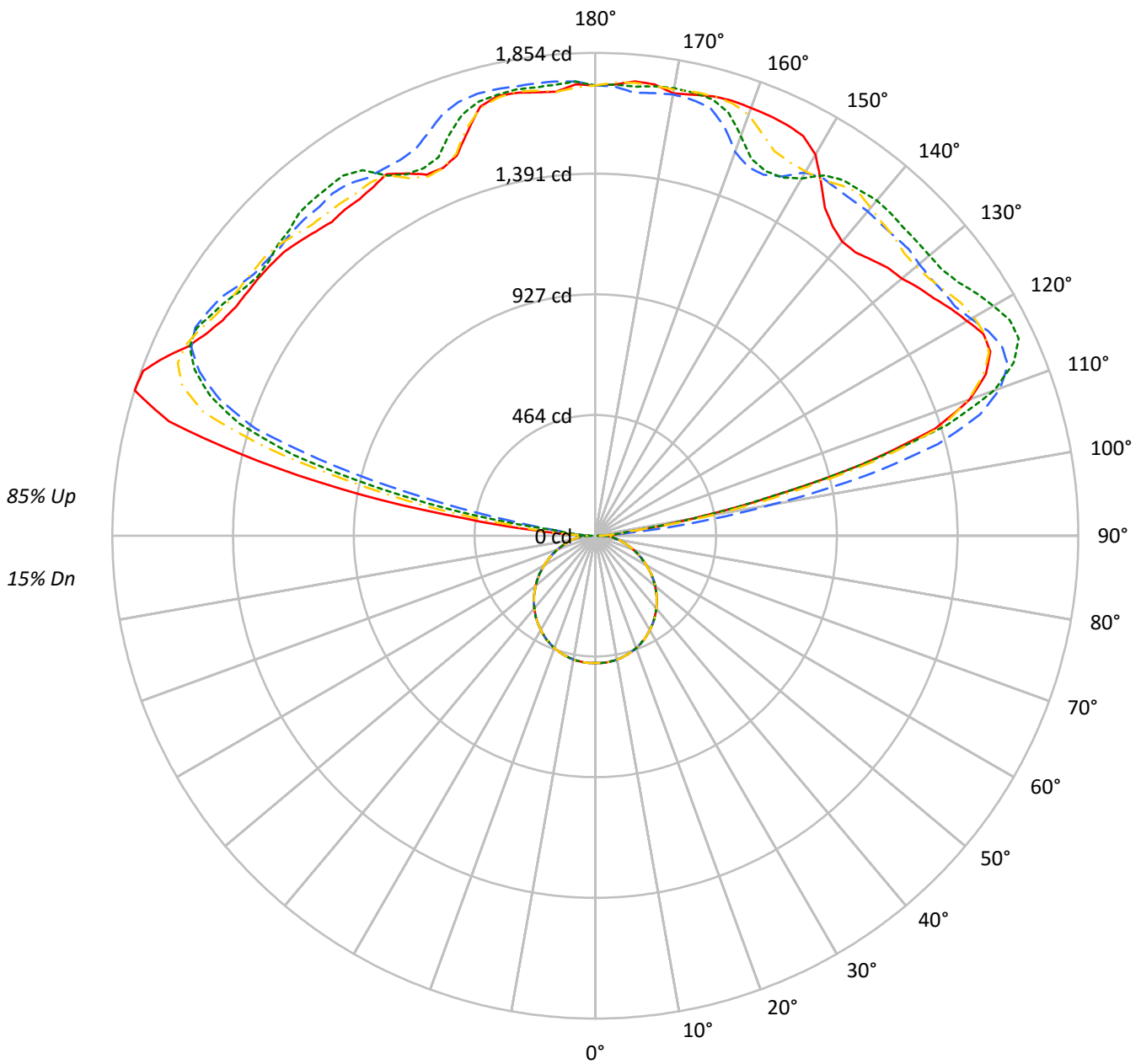
Summary

Lumens per Lamp: 13500 (1 lamp)
Luminaire Lumens: 9753.6 lumens
Efficiency: 72.2%
Efficacy: 62.1 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): 157
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	71	71	71	71	63	63	63	63	46	46	46	31	31	31	18	18	18	11
1	65	62	59	57	57	54	52	50	40	39	37	27	26	26	15	15	14	9
2	59	54	50	46	51	47	44	41	35	33	31	24	22	21	13	13	12	7
3	54	47	42	38	47	42	37	34	31	28	26	21	19	18	12	11	10	6
4	49	42	36	32	43	37	32	29	27	24	22	19	17	15	10	9	9	5
5	45	37	31	27	39	32	28	24	24	21	19	16	14	13	9	8	7	5
6	41	33	27	23	36	29	24	21	22	18	16	15	13	11	8	7	6	4
7	38	29	24	20	33	26	21	18	19	16	14	13	11	10	8	7	6	3
8	35	27	21	18	31	24	19	16	18	14	12	12	10	9	7	6	5	3
9	32	24	19	16	28	21	17	14	16	13	11	11	9	8	6	5	5	3
10	30	22	17	14	26	19	15	12	15	12	10	10	8	7	6	5	4	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	0.5	0.3
10°-20°	133.5	1.4	1.0
20°-30°	203.1	2.1	1.5
30°-40°	245.8	2.5	1.8
40°-50°	256.7	2.6	1.9
50°-60°	235.8	2.4	1.7
60°-70°	188.3	1.9	1.4
70°-80°	128.2	1.3	0.9
80°-90°	69.3	0.7	0.5
90°-100°	190.8	2.0	1.4
100°-110°	1227.0	12.6	9.1
110°-120°	1677.7	17.2	12.4
120°-130°	1482.9	15.2	11.0
130°-140°	1258.2	12.9	9.3
140°-150°	1020.0	10.5	7.6
150°-160°	740.9	7.6	5.5
160°-170°	483.9	5.0	3.6
170°-180°	165.4	1.7	1.2
0°-30°	382.9	3.9	2.8
0°-40°	628.7	6.4	4.7
0°-60°	1121.2	11.5	8.3
0°-90°	1506.9	15.4	11.2
90°-120°	3095.4	31.7	22.9
90°-150°	6856.5	70.3	50.8
90°-180°	8247.0	84.6	61.1
0°-180°	9753.6	100.0	72.2

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°	46	10	53	10	46	27
95°	110	86	224	75	110	132
105°	1061	1064	1694	1197	1061	1071
115°	1673	1793	1722	1718	1673	1628
125°	1588	1699	1630	1650	1588	1429
135°	1499	1673	1601	1660	1499	1163
145°	1536	1665	1578	1688	1536	975
155°	1741	1545	1530	1557	1741	802
165°	1747	1735	1706	1726	1747	494
175°	1751	1731	1711	1739	1751	166
180°	1729	1729	1729	1729	1729	



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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°	46.0	8.0	10.0	9.0	53.0	24.0	10.0	21.0	46.0	8.0	10.0
92.5°	47.8	38.4	39.3	44.0	55.6	62.4	35.5	40.8	47.8	38.4	39.3
95°	109.8	86.0	75.3	85.7	224.4	183.4	85.7	91.6	109.8	86.0	75.3
97.5°	164.4	127.7	154.5	342.7	498.6	297.0	135.8	128.0	164.4	127.7	154.5
100°	372.3	481.3	526.0	610.8	923.8	583.6	383.2	320.3	372.3	481.3	526.0
102.5°	687.5	789.0	858.3	971.2	1324.3	841.0	680.2	652.8	687.5	789.0	858.3
105°	1060.6	1131.7	1197.3	1250.2	1694.2	1176.9	1063.7	1030.4	1060.6	1131.7	1197.3
107.5°	1367.3	1398.9	1432.4	1446.0	1853.7	1484.3	1415.9	1367.5	1367.3	1398.9	1432.4
110°	1528.3	1519.8	1573.7	1588.5	1847.7	1633.5	1628.1	1539.0	1528.3	1519.8	1573.7



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CANDELA DISTRIBUTION (continued):

	0°	20°	30°	40°	60°	80°	90°	100°	120°	140°	150°
112.5°	1622.8	1607.2	1664.8	1688.1	1789.1	1716.5	1738.1	1651.4	1622.8	1607.2	1664.8
115°	1673.0	1664.5	1718.0	1721.6	1722.3	1738.1	1793.0	1724.0	1673.0	1664.5	1718.0
117.5°	1679.1	1684.7	1725.5	1706.6	1682.0	1721.9	1793.3	1748.1	1679.1	1684.7	1725.5
120°	1648.3	1687.1	1699.8	1670.1	1652.9	1698.1	1764.6	1740.8	1648.3	1687.1	1699.8
122.5°	1620.3	1678.4	1678.9	1638.3	1635.9	1681.5	1733.5	1731.3	1620.3	1678.4	1678.9
125°	1588.3	1656.3	1650.5	1631.5	1630.5	1675.0	1699.0	1700.7	1588.3	1656.3	1650.5
127.5°	1564.0	1637.3	1633.7	1620.8	1627.4	1671.6	1677.7	1679.8	1564.0	1637.3	1633.7
130°	1536.3	1630.3	1637.3	1622.8	1622.5	1671.8	1674.3	1681.8	1536.3	1630.3	1637.3
132.5°	1523.2	1634.7	1653.4	1634.9	1616.2	1662.6	1673.3	1678.6	1523.2	1634.7	1653.4
135°	1498.7	1662.8	1660.4	1632.7	1601.4	1642.4	1672.8	1698.3	1498.7	1662.8	1660.4
137.5°	1476.6	1681.5	1681.8	1635.9	1585.6	1626.2	1678.6	1708.7	1476.6	1681.5	1681.8
140°	1474.4	1700.0	1685.4	1644.1	1573.2	1623.0	1680.8	1706.1	1474.4	1700.0	1685.4
142.5°	1497.0	1715.3	1685.9	1637.8	1578.8	1618.2	1669.9	1710.4	1497.0	1715.3	1685.9
145°	1536.1	1679.1	1688.3	1637.6	1577.6	1611.8	1664.8	1687.9	1536.1	1679.1	1688.3
147.5°	1611.1	1621.3	1663.8	1640.5	1587.3	1615.2	1640.7	1634.4	1611.1	1621.3	1663.8
150°	1689.6	1590.5	1596.3	1612.1	1603.3	1596.5	1584.2	1605.5	1689.6	1590.5	1596.3
152.5°	1729.4	1578.6	1565.2	1551.6	1567.9	1540.7	1550.6	1591.2	1729.4	1578.6	1565.2
155°	1741.0	1590.7	1557.4	1528.5	1529.8	1518.6	1545.3	1600.7	1741.0	1590.7	1557.4
157.5°	1745.9	1647.1	1573.2	1533.4	1528.3	1526.4	1565.5	1650.2	1745.9	1647.1	1573.2
160°	1747.8	1710.7	1639.0	1573.0	1553.6	1563.5	1633.0	1710.4	1747.8	1710.7	1639.0
162.5°	1751.0	1739.1	1696.8	1652.9	1628.1	1645.8	1702.2	1745.2	1751.0	1739.1	1696.8
165°	1746.6	1747.8	1726.2	1701.0	1706.1	1698.8	1734.7	1759.5	1746.6	1747.8	1726.2
167.5°	1734.7	1749.3	1734.5	1710.0	1729.6	1721.4	1742.0	1763.4	1734.7	1749.3	1734.5
170°	1724.5	1744.7	1740.3	1718.5	1727.2	1732.1	1744.7	1761.2	1724.5	1744.7	1740.3
172.5°	1747.6	1739.8	1736.4	1713.1	1717.0	1726.0	1740.6	1752.9	1747.6	1739.8	1736.4
175°	1751.2	1743.5	1738.6	1706.6	1711.4	1710.4	1731.1	1751.0	1751.2	1743.5	1738.6
177.5°	1734.2	1744.0	1745.4	1722.8	1734.7	1717.7	1734.2	1749.8	1734.2	1744.0	1745.4
180°	1728.9	1728.9	1728.9	1728.9	1728.9	1728.9	1728.9	1728.9	1728.9	1728.9	1728.9



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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°	9.0	53.0	24.0	10.0	21.0	46.0	8.0	10.0	9.0	53.0	24.0
92.5°	44.0	55.6	62.4	35.5	40.8	47.8	38.4	39.3	44.0	55.6	62.4
95°	85.7	224.4	183.4	85.7	91.6	109.8	86.0	75.3	85.7	224.4	183.4
97.5°	342.7	498.6	297.0	135.8	128.0	164.4	127.7	154.5	342.7	498.6	297.0
100°	610.8	923.8	583.6	383.2	320.3	372.3	481.3	526.0	610.8	923.8	583.6
102.5°	971.2	1324.3	841.0	680.2	652.8	687.5	789.0	858.3	971.2	1324.3	841.0
105°	1250.2	1694.2	1176.9	1063.7	1030.4	1060.6	1131.7	1197.3	1250.2	1694.2	1176.9
107.5°	1446.0	1853.7	1484.3	1415.9	1367.5	1367.3	1398.9	1432.4	1446.0	1853.7	1484.3
110°	1588.5	1847.7	1633.5	1628.1	1539.0	1528.3	1519.8	1573.7	1588.5	1847.7	1633.5



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CANDELA DISTRIBUTION (continued):

	160°	180°	200°	210°	220°	240°	260°	270°	280°	300°	320°
112.5°	1688.1	1789.1	1716.5	1738.1	1651.4	1622.8	1607.2	1664.8	1688.1	1789.1	1716.5
115°	1721.6	1722.3	1738.1	1793.0	1724.0	1673.0	1664.5	1718.0	1721.6	1722.3	1738.1
117.5°	1706.6	1682.0	1721.9	1793.3	1748.1	1679.1	1684.7	1725.5	1706.6	1682.0	1721.9
120°	1670.1	1652.9	1698.1	1764.6	1740.8	1648.3	1687.1	1699.8	1670.1	1652.9	1698.1
122.5°	1638.3	1635.9	1681.5	1733.5	1731.3	1620.3	1678.4	1678.9	1638.3	1635.9	1681.5
125°	1631.5	1630.5	1675.0	1699.0	1700.7	1588.3	1656.3	1650.5	1631.5	1630.5	1675.0
127.5°	1620.8	1627.4	1671.6	1677.7	1679.8	1564.0	1637.3	1633.7	1620.8	1627.4	1671.6
130°	1622.8	1622.5	1671.8	1674.3	1681.8	1536.3	1630.3	1637.3	1622.8	1622.5	1671.8
132.5°	1634.9	1616.2	1662.6	1673.3	1678.6	1523.2	1634.7	1653.4	1634.9	1616.2	1662.6
135°	1632.7	1601.4	1642.4	1672.8	1698.3	1498.7	1662.8	1660.4	1632.7	1601.4	1642.4
137.5°	1635.9	1585.6	1626.2	1678.6	1708.7	1476.6	1681.5	1681.8	1635.9	1585.6	1626.2
140°	1644.1	1573.2	1623.0	1680.8	1706.1	1474.4	1700.0	1685.4	1644.1	1573.2	1623.0
142.5°	1637.8	1578.8	1618.2	1669.9	1710.4	1497.0	1715.3	1685.9	1637.8	1578.8	1618.2
145°	1637.6	1577.6	1611.8	1664.8	1687.9	1536.1	1679.1	1688.3	1637.6	1577.6	1611.8
147.5°	1640.5	1587.3	1615.2	1640.7	1634.4	1611.1	1621.3	1663.8	1640.5	1587.3	1615.2
150°	1612.1	1603.3	1596.5	1584.2	1605.5	1689.6	1590.5	1596.3	1612.1	1603.3	1596.5
152.5°	1551.6	1567.9	1540.7	1550.6	1591.2	1729.4	1578.6	1565.2	1551.6	1567.9	1540.7
155°	1528.5	1529.8	1518.6	1545.3	1600.7	1741.0	1590.7	1557.4	1528.5	1529.8	1518.6
157.5°	1533.4	1528.3	1526.4	1565.5	1650.2	1745.9	1647.1	1573.2	1533.4	1528.3	1526.4
160°	1573.0	1553.6	1563.5	1633.0	1710.4	1747.8	1710.7	1639.0	1573.0	1553.6	1563.5
162.5°	1652.9	1628.1	1645.8	1702.2	1745.2	1751.0	1739.1	1696.8	1652.9	1628.1	1645.8
165°	1701.0	1706.1	1698.8	1734.7	1759.5	1746.6	1747.8	1726.2	1701.0	1706.1	1698.8
167.5°	1710.0	1729.6	1721.4	1742.0	1763.4	1734.7	1749.3	1734.5	1710.0	1729.6	1721.4
170°	1718.5	1727.2	1732.1	1744.7	1761.2	1724.5	1744.7	1740.3	1718.5	1727.2	1732.1
172.5°	1713.1	1717.0	1726.0	1740.6	1752.9	1747.6	1739.8	1736.4	1713.1	1717.0	1726.0
175°	1706.6	1711.4	1710.4	1731.1	1751.0	1751.2	1743.5	1738.6	1706.6	1711.4	1710.4
177.5°	1722.8	1734.7	1717.7	1734.2	1749.8	1734.2	1744.0	1745.4	1722.8	1734.7	1717.7
180°	1728.9	1728.9	1728.9	1728.9	1728.9	1728.9	1728.9	1728.9	1728.9	1728.9	1728.9



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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°	10.0	21.0	46.0
92.5°	35.5	40.8	47.8
95°	85.7	91.6	109.8
97.5°	135.8	128.0	164.4
100°	383.2	320.3	372.3
102.5°	680.2	652.8	687.5
105°	1063.7	1030.4	1060.6
107.5°	1415.9	1367.5	1367.3
110°	1628.1	1539.0	1528.3



TEST NUMBER: 253P237

CATALOG NUMBER: 1215-XX-36-MH/3/39-T5C/1/40

CANDELA DISTRIBUTION (continued):

	330°	340°	360°
112.5°	1738.1	1651.4	1622.8
115°	1793.0	1724.0	1673.0
117.5°	1793.3	1748.1	1679.1
120°	1764.6	1740.8	1648.3
122.5°	1733.5	1731.3	1620.3
125°	1699.0	1700.7	1588.3
127.5°	1677.7	1679.8	1564.0
130°	1674.3	1681.8	1536.3
132.5°	1673.3	1678.6	1523.2
135°	1672.8	1698.3	1498.7
137.5°	1678.6	1708.7	1476.6
140°	1680.8	1706.1	1474.4
142.5°	1669.9	1710.4	1497.0
145°	1664.8	1687.9	1536.1
147.5°	1640.7	1634.4	1611.1
150°	1584.2	1605.5	1689.6
152.5°	1550.6	1591.2	1729.4
155°	1545.3	1600.7	1741.0
157.5°	1565.5	1650.2	1745.9
160°	1633.0	1710.4	1747.8
162.5°	1702.2	1745.2	1751.0
165°	1734.7	1759.5	1746.6
167.5°	1742.0	1763.4	1734.7
170°	1744.7	1761.2	1724.5
172.5°	1740.6	1752.9	1747.6
175°	1731.1	1751.0	1751.2
177.5°	1734.2	1749.8	1734.2
180°	1728.9	1728.9	1728.9

(END OF REPORT)