

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P331420-927

Luminaire Tested: **SA2XXDIP-C1005D330U927-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331420-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C1005D330U927-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 330 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4523.2 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

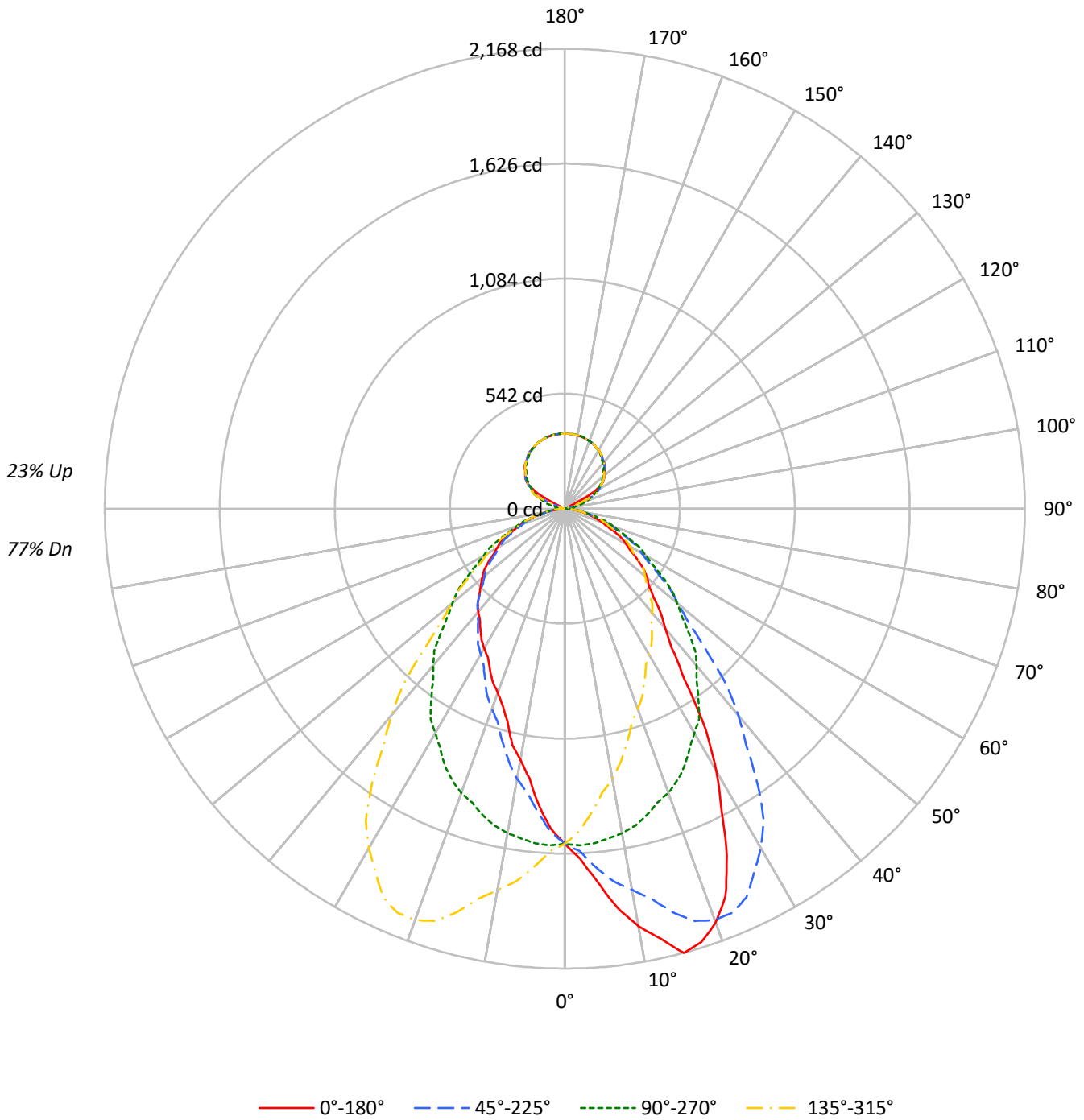
Input Watts (W): 49.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	114	114	114	108	108	108	108	98	98	98	89	89	89	81	81	81	77
1	105	100	97	93	100	96	93	90	88	85	83	80	78	76	73	71	70	66
2	96	89	83	77	91	85	79	75	78	73	70	71	68	65	65	62	60	57
3	88	79	71	65	84	75	69	63	69	64	59	64	59	56	58	55	52	49
4	81	70	62	56	77	67	60	55	62	56	51	57	52	48	53	49	45	43
5	75	63	55	49	71	61	53	48	56	50	45	52	47	43	48	44	40	38
6	69	57	49	43	66	55	47	42	51	45	40	47	42	38	44	39	36	33
7	64	52	44	38	61	50	43	37	47	40	36	43	38	34	40	36	32	30
8	60	48	40	34	57	46	39	34	43	37	32	40	34	31	37	32	29	27
9	56	44	36	31	54	42	35	30	39	33	29	37	32	28	34	30	26	25
10	53	40	33	28	50	39	32	28	37	31	26	34	29	25	32	27	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	25504	25504	25504	25504
5°	28593	25671	22749	25671
10°	32765	25460	19687	25460
15°	36247	24993	17392	24993
20°	35696	24493	15856	24493
25°	32186	23826	14883	23826
30°	26597	22760	14171	22760
35°	19385	21646	13665	21646
40°	15483	20331	13384	20331
45°	13531	18810	13001	18810
50°	12717	17337	12750	17337
55°	11724	15842	12408	15842
60°	10743	14250	11880	14250
65°	9788	12825	11366	12825
70°	8884	11434	10607	11434
75°	7879	9881	9395	9881
80°	6778	8182	7569	8182
85°	6076	6076	4502	6076



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.4	3.3
10°-20°	437.4	9.7
20°-30°	634.7	14.0
30°-40°	669.8	14.8
40°-50°	593.0	13.1
50°-60°	473.3	10.5
60°-70°	321.7	7.1
70°-80°	164.9	3.6
80°-90°	40.6	0.9
90°-100°	11.8	0.3
100°-110°	43.3	1.0
110°-120°	115.7	2.6
120°-130°	191.1	4.2
130°-140°	203.2	4.5
140°-150°	188.9	4.2
150°-160°	151.8	3.4
160°-170°	97.8	2.2
170°-180°	33.7	0.7
0°-30°	1222.5	27.0
0°-40°	1892.3	41.8
0°-60°	2958.6	65.4
0°-90°	3485.9	77.1
90°-120°	170.8	3.8
90°-150°	754.0	16.7
90°-180°	1037.0	22.9
0°-180°	4523.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1580	1580	1580	1580	1580	
5°	1764	1584	1404	1584	1764	176
15°	2168	1495	1040	1495	2168	598
25°	1807	1337	835	1337	1807	817
35°	984	1098	693	1098	984	640
45°	593	824	569	824	593	466
55°	416	563	441	563	416	373
65°	256	336	298	336	256	255
75°	126	158	151	158	126	135
85°	33	33	24	33	33	36
90°	7	0	7	0	7	5
95°	11	17	11	17	11	10
105°	20	78	20	78	20	20
115°	21	147	21	147	21	53
125°	219	208	219	208	219	190
135°	266	258	266	258	266	205
145°	304	299	304	299	304	190
155°	329	329	329	329	329	152
165°	346	347	346	347	346	98
175°	353	355	353	355	353	34
180°	354	354	354	354	354	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1652.5	1653.0	1653.9	1646.2	1645.2	1645.2	1638.4	1632.6	1625.8	1616.5	1617.6
5°	1764.2	1770.8	1773.3	1766.0	1755.1	1753.9	1743.6	1726.6	1710.8	1698.0	1688.9
7.5°	1897.5	1900.2	1894.3	1884.7	1876.5	1861.9	1842.8	1823.9	1797.6	1773.5	1755.5
10°	1998.5	2002.2	1991.9	1977.9	1966.4	1949.4	1921.4	1892.9	1858.3	1825.0	1798.2
12.5°	2075.3	2084.2	2071.0	2069.2	2049.5	2026.1	1992.8	1978.4	1929.7	1883.2	1854.6
15°	2168.5	2167.9	2169.2	2157.6	2143.0	2139.4	2104.2	2065.9	1997.3	1970.0	1922.6
17.5°	2141.6	2150.8	2155.1	2154.9	2154.6	2152.3	2141.0	2116.8	2082.4	2038.1	1983.5
20°	2077.5	2089.6	2091.4	2105.4	2113.3	2123.6	2127.9	2121.1	2099.9	2062.9	2015.5
22.5°	1978.4	1981.8	1987.5	2009.2	2026.3	2052.2	2065.7	2088.1	2080.0	2061.9	2022.4
25°	1806.7	1800.6	1821.9	1832.8	1872.2	1913.5	1943.3	1976.1	2005.3	2022.8	2011.3
27.5°	1600.5	1591.4	1623.3	1652.3	1684.3	1729.0	1775.4	1830.1	1875.7	1932.6	1952.2
30°	1426.6	1432.1	1462.4	1493.4	1542.0	1605.1	1657.3	1717.5	1782.4	1846.2	1890.5
32.5°	1239.2	1260.2	1279.4	1326.8	1369.6	1440.0	1516.5	1591.7	1672.7	1745.2	1813.8
35°	983.5	1007.7	1034.5	1069.1	1129.2	1199.0	1273.7	1375.1	1485.6	1584.5	1665.9
37.5°	827.8	823.9	839.2	864.3	912.9	969.3	1055.3	1155.4	1285.5	1401.8	1516.5
40°	734.6	732.1	743.1	766.1	803.2	844.5	919.7	1007.7	1128.5	1270.7	1407.2
42.5°	670.5	671.9	678.0	694.3	719.6	753.6	810.0	884.9	995.5	1129.3	1276.1
45°	592.6	596.8	603.5	611.3	625.9	653.9	685.4	738.9	826.2	937.9	1082.4
47.5°	536.4	536.5	543.4	550.2	558.9	574.6	600.4	633.9	695.6	786.6	910.8
50°	506.3	502.1	506.9	512.4	521.5	532.4	549.4	581.0	622.3	695.7	799.5
52.5°	469.4	469.5	473.9	475.9	484.1	495.0	510.6	532.4	569.8	627.2	712.6
55°	416.5	419.5	421.9	425.6	432.8	440.8	452.9	467.5	496.6	539.7	602.9
57.5°	366.7	367.7	370.1	377.0	381.6	388.9	400.4	413.7	432.6	464.5	512.0
60°	332.7	332.7	337.5	340.6	346.7	353.9	363.1	375.8	392.8	418.9	457.2
62.5°	301.6	301.1	303.1	308.0	312.7	319.5	328.5	339.4	355.4	378.6	410.0
65°	256.2	255.0	258.6	259.8	264.7	271.4	278.7	290.2	302.9	320.0	347.8
67.5°	212.5	214.0	215.9	218.2	220.9	227.9	232.7	240.9	251.7	265.8	284.7
70°	188.2	188.2	188.2	190.0	193.7	197.3	202.2	208.8	219.2	231.3	248.3
72.5°	161.0	163.0	164.9	163.8	168.4	170.6	176.4	180.2	190.0	197.8	212.9
75°	126.3	126.3	126.3	129.3	131.1	132.9	136.6	140.2	145.1	154.8	162.7
77.5°	94.2	94.0	94.6	95.3	97.3	99.4	100.5	103.8	108.3	112.8	119.5
80°	72.9	74.1	74.7	75.9	75.9	77.1	77.7	82.0	85.0	88.0	92.3
82.5°	56.3	56.6	56.7	57.0	57.4	58.1	59.7	61.1	62.2	64.7	68.0
85°	32.8	32.2	32.2	33.4	32.8	32.8	34.0	35.2	35.2	35.8	37.6
87.5°	14.0	14.0	14.4	13.9	13.9	14.3	14.3	13.8	14.2	14.7	15.1
90°	6.9	6.8	6.7	6.6	6.5	6.3	5.9	5.7	5.4	5.1	4.7
92.5°	6.9	6.8	6.8	6.7	6.7	6.5	6.4	6.3	6.1	5.9	5.7
95°	11.0	11.1	11.1	11.2	11.2	11.1	10.9	10.5	10.3	10.0	9.6
97.5°	14.7	14.7	14.6	14.5	14.4	14.3	14.0	13.9	13.6	13.4	12.4
100°	17.2	17.0	17.0	16.8	16.7	16.4	16.0	15.5	15.1	14.6	13.6
102.5°	18.4	18.2	18.1	17.9	17.7	17.3	16.8	16.2	15.6	15.0	23.1
105°	19.5	19.3	19.0	18.8	18.5	18.1	17.5	16.9	16.2	15.6	31.1
107.5°	20.0	19.8	19.6	19.3	19.1	19.3	20.0	20.6	21.2	21.9	40.5
110°	20.2	20.0	19.8	19.6	19.3	22.0	27.7	33.4	39.1	44.8	61.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	20.4	20.3	20.0	19.9	19.7	30.0	50.8	71.5	92.3	113.0	117.1
115°	21.0	25.1	29.2	33.3	37.4	52.6	79.0	105.4	131.7	158.0	156.6
117.5°	85.8	99.3	112.7	126.2	139.7	149.6	155.9	162.3	168.7	175.1	174.0
120°	156.2	163.9	171.6	179.3	187.0	190.4	189.8	189.1	188.5	187.7	186.7
122.5°	195.0	196.5	198.0	199.5	200.9	201.5	201.1	200.7	200.3	199.9	198.8
125°	219.0	218.8	218.6	218.5	218.3	218.0	217.6	217.2	216.8	216.4	215.3
127.5°	234.2	234.1	234.1	234.1	234.0	233.7	233.1	232.6	232.0	231.4	230.6
130°	243.6	243.7	243.7	243.8	243.8	243.5	242.9	242.2	241.6	241.1	240.4
132.5°	252.8	252.9	252.9	252.9	253.0	252.8	252.2	251.8	251.2	250.6	250.0
135°	266.1	266.3	266.3	266.5	266.6	266.3	265.8	265.2	264.7	264.1	263.6
137.5°	278.3	278.5	278.7	278.8	279.0	278.8	278.3	277.7	277.2	276.6	276.1
140°	285.8	286.1	286.5	286.7	287.0	286.8	286.4	285.8	285.3	284.8	284.2
142.5°	293.2	293.5	293.8	294.1	294.4	294.3	293.8	293.3	292.9	292.4	291.7
145°	303.5	303.8	304.1	304.4	304.7	304.6	304.2	303.8	303.4	303.0	302.1
147.5°	312.6	312.8	313.1	313.3	313.5	313.5	313.2	312.9	312.6	312.4	311.4
150°	318.1	318.4	318.7	319.0	319.2	319.2	318.9	318.5	318.2	317.9	317.0
152.5°	322.8	323.2	323.6	323.9	324.3	324.3	324.0	323.7	323.3	323.0	322.1
155°	329.4	329.9	330.3	330.7	331.2	331.3	330.9	330.6	330.3	329.9	329.2
157.5°	335.4	335.8	336.3	336.7	337.2	337.2	336.8	336.4	336.0	335.6	335.2
160°	338.9	339.3	339.7	340.1	340.5	340.5	340.2	339.8	339.5	339.1	338.8
162.5°	341.7	342.2	342.7	343.2	343.7	343.7	343.3	342.9	342.6	342.2	341.9
165°	346.0	346.4	346.8	347.2	347.6	347.6	347.2	346.8	346.4	346.0	345.9
167.5°	348.7	349.3	349.7	350.3	350.8	350.9	350.5	350.1	349.7	349.3	349.1
170°	350.4	350.9	351.4	352.0	352.4	352.5	352.1	351.7	351.3	350.9	350.8
172.5°	351.6	352.1	352.7	353.2	353.7	353.7	353.3	352.9	352.5	352.1	352.0
175°	352.7	353.2	353.9	354.4	355.0	355.1	354.7	354.3	353.9	353.5	353.4
177.5°	353.4	353.8	354.2	354.6	355.0	355.1	354.7	354.4	354.1	353.8	353.7
180°	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1621.0	1617.1	1614.6	1605.9	1598.1	1590.3	1587.9	1588.9	1578.2	1568.0	1563.6
5°	1684.1	1671.9	1660.4	1644.0	1624.6	1603.3	1592.4	1583.9	1562.7	1539.6	1526.2
7.5°	1740.7	1723.3	1701.1	1670.2	1642.0	1608.5	1587.3	1568.4	1537.4	1504.8	1484.9
10°	1775.1	1751.4	1722.9	1685.3	1650.7	1610.0	1581.4	1552.9	1516.5	1477.7	1453.3
12.5°	1804.7	1772.8	1744.8	1696.5	1655.5	1604.6	1570.8	1530.6	1492.2	1446.0	1422.3
15°	1875.3	1816.4	1763.0	1708.3	1658.0	1586.9	1549.3	1495.2	1444.9	1387.8	1360.5
17.5°	1929.8	1863.6	1779.5	1710.1	1651.3	1572.6	1517.3	1452.6	1393.1	1327.9	1290.7
20°	1960.9	1885.0	1794.5	1712.0	1641.6	1551.7	1491.6	1425.5	1355.7	1282.1	1242.1
22.5°	1979.3	1899.6	1810.1	1704.7	1622.2	1534.7	1459.0	1386.6	1315.8	1236.5	1194.5
25°	1985.2	1912.3	1817.7	1698.7	1597.8	1498.9	1407.9	1337.4	1251.8	1177.7	1116.4
27.5°	1956.3	1904.1	1813.0	1687.2	1569.8	1454.1	1352.6	1272.8	1182.5	1102.1	1040.5
30°	1920.8	1890.5	1801.8	1675.5	1547.4	1423.0	1311.3	1220.8	1131.0	1049.6	986.5
32.5°	1866.0	1859.4	1781.5	1659.1	1523.7	1383.7	1268.1	1176.6	1077.1	997.2	937.0
35°	1758.2	1787.2	1738.1	1622.2	1478.8	1327.7	1202.6	1098.2	995.1	918.5	862.1
37.5°	1613.7	1686.0	1673.2	1568.1	1418.4	1266.8	1128.7	1019.5	921.2	844.0	788.6
40°	1514.1	1606.4	1619.7	1526.9	1375.7	1219.6	1073.3	964.6	868.7	798.4	742.4
42.5°	1407.2	1515.0	1551.7	1477.3	1329.0	1170.1	1023.8	911.2	816.3	747.8	698.3
45°	1228.1	1370.8	1437.0	1394.5	1251.3	1088.5	937.9	823.8	737.6	673.3	635.0
47.5°	1060.7	1216.6	1305.6	1290.5	1164.7	1003.5	854.7	745.1	661.2	609.9	575.7
50°	942.2	1102.5	1209.9	1214.8	1102.5	942.8	793.4	690.2	613.1	565.2	537.3
52.5°	839.2	992.2	1109.4	1135.1	1033.0	879.6	738.6	635.9	568.0	523.9	498.9
55°	704.8	834.2	964.1	1011.4	929.5	783.8	653.2	562.8	499.0	468.7	446.8
57.5°	586.0	693.8	813.7	866.1	815.6	690.9	568.5	489.9	438.2	411.6	394.8
60°	523.3	608.3	715.2	777.7	734.0	622.9	516.0	441.3	398.9	375.2	359.4
62.5°	465.0	540.3	630.7	687.9	664.0	559.3	463.6	397.7	361.0	338.7	327.3
65°	383.7	443.1	513.0	565.8	550.0	470.5	392.2	335.7	306.6	289.0	279.9
67.5°	315.9	358.9	407.3	453.6	440.8	384.5	321.6	277.7	256.0	240.7	235.3
70°	273.2	305.9	349.1	386.1	375.8	329.6	279.9	242.2	223.4	210.6	205.2
72.5°	232.4	259.4	292.2	322.5	315.5	277.2	235.7	207.2	192.8	181.0	176.6
75°	175.5	196.1	216.1	236.1	234.3	204.6	180.3	158.4	146.9	137.8	136.0
77.5°	129.5	141.1	154.7	166.6	163.3	146.3	127.2	114.7	106.2	100.1	99.2
80°	98.9	105.6	115.3	123.8	119.6	112.3	97.1	88.0	82.0	75.9	73.4
82.5°	71.8	78.4	84.3	88.9	85.6	78.8	69.5	63.3	59.7	55.5	54.5
85°	37.6	41.3	43.7	44.9	43.7	39.5	35.2	32.8	29.8	28.0	27.3
87.5°	15.4	15.3	15.2	16.1	14.5	14.4	12.3	10.8	10.4	10.0	9.2
90°	4.2	3.7	3.3	2.8	2.1	1.5	0.9	0.2	0.9	1.5	2.1
92.5°	5.5	5.2	5.1	4.9	5.0	5.1	5.1	5.1	5.1	5.1	5.0
95°	9.2	8.8	8.4	9.1	11.0	12.9	14.7	16.6	14.7	12.9	11.0
97.5°	11.5	10.6	9.7	11.9	17.2	22.4	27.7	33.0	27.7	22.4	17.2
100°	12.7	11.7	10.7	14.2	21.9	29.7	37.5	45.3	37.5	29.7	21.9
102.5°	31.2	39.3	47.4	52.3	53.9	55.5	57.2	58.9	57.2	55.5	53.9
105°	46.7	62.3	77.8	84.7	83.0	81.3	79.5	77.9	79.5	81.3	83.0
107.5°	59.2	77.8	96.4	105.0	103.7	102.3	100.9	99.5	100.9	102.3	103.7
110°	77.7	94.2	110.6	118.3	117.1	115.9	114.6	113.4	114.6	115.9	117.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	121.2	125.2	129.3	130.8	129.8	128.7	127.6	126.6	127.6	128.7	129.8
115°	155.2	153.8	152.3	151.1	150.2	149.2	148.2	147.3	148.2	149.2	150.2
117.5°	173.1	172.1	171.1	170.1	169.1	167.9	166.8	165.8	166.8	167.9	169.1
120°	185.7	184.7	183.6	182.7	181.9	181.0	180.1	179.3	180.1	181.0	181.9
122.5°	197.6	196.5	195.4	194.4	193.5	192.6	191.7	190.8	191.7	192.6	193.5
125°	214.3	213.2	212.1	211.2	210.5	209.7	209.0	208.3	209.0	209.7	210.5
127.5°	229.8	228.9	228.1	227.4	226.6	225.7	224.9	224.0	224.9	225.7	226.6
130°	239.8	239.2	238.5	237.7	236.9	235.9	235.0	234.1	235.0	235.9	236.9
132.5°	249.4	248.7	248.1	247.5	246.7	245.9	245.1	244.4	245.1	245.9	246.7
135°	263.1	262.5	262.1	261.3	260.4	259.5	258.6	257.7	258.6	259.5	260.4
137.5°	275.4	274.9	274.3	273.7	273.1	272.4	271.8	271.2	271.8	272.4	273.1
140°	283.6	283.0	282.3	281.8	281.3	280.8	280.4	280.0	280.4	280.8	281.3
142.5°	291.0	290.3	289.5	289.0	288.6	288.1	287.7	287.3	287.7	288.1	288.6
145°	301.1	300.1	299.1	298.7	298.7	298.8	298.9	298.9	298.9	298.8	298.7
147.5°	310.5	309.4	308.5	308.2	308.3	308.6	308.8	309.0	308.8	308.6	308.3
150°	316.1	315.1	314.3	313.9	314.3	314.7	315.1	315.5	315.1	314.7	314.3
152.5°	321.2	320.4	319.5	319.3	319.7	320.2	320.7	321.1	320.7	320.2	319.7
155°	328.5	327.9	327.2	327.1	327.6	328.1	328.6	329.2	328.6	328.1	327.6
157.5°	334.7	334.2	333.7	333.7	334.1	334.5	335.0	335.4	335.0	334.5	334.1
160°	338.4	338.1	337.8	337.8	338.1	338.4	338.8	339.1	338.8	338.4	338.1
162.5°	341.6	341.3	341.0	341.0	341.4	341.7	342.1	342.4	342.1	341.7	341.4
165°	345.7	345.5	345.4	345.5	345.8	346.1	346.5	346.8	346.5	346.1	345.8
167.5°	349.0	348.8	348.6	348.7	349.0	349.4	349.7	350.1	349.7	349.4	349.0
170°	350.7	350.5	350.5	350.5	350.9	351.3	351.6	352.0	351.6	351.3	350.9
172.5°	351.9	351.8	351.6	351.8	352.1	352.4	352.8	353.2	352.8	352.4	352.1
175°	353.2	353.2	353.0	353.2	353.6	353.9	354.3	354.7	354.3	353.9	353.6
177.5°	353.7	353.6	353.6	353.7	354.0	354.3	354.7	355.0	354.7	354.3	354.0
180°	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9



TEST NUMBER: P331420-927

CATALOG NUMBER: SA2XXDIP-C1005D330U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1558.8	1555.8	1545.6	1540.3	1531.6	1523.3	1518.0	1520.4	1522.3	1521.4	1519.9
5°	1514.1	1502.5	1484.9	1469.7	1458.8	1438.8	1430.3	1426.1	1422.4	1418.2	1413.9
7.5°	1460.9	1442.7	1417.5	1395.8	1375.4	1350.5	1336.3	1327.9	1319.1	1309.5	1301.0
10°	1423.0	1397.5	1370.8	1340.5	1316.2	1293.7	1273.7	1260.3	1248.2	1236.7	1228.1
12.5°	1383.2	1353.8	1320.8	1279.3	1252.5	1220.4	1217.3	1193.8	1174.8	1167.7	1157.7
15°	1319.8	1278.5	1236.7	1187.5	1166.3	1137.1	1118.9	1100.7	1084.3	1072.7	1069.7
17.5°	1247.8	1194.4	1152.7	1117.4	1082.6	1052.7	1035.9	1021.4	1007.9	992.4	990.4
20°	1192.9	1146.8	1101.3	1070.3	1034.5	1004.1	983.5	968.9	957.4	948.2	940.4
22.5°	1141.0	1090.4	1048.8	1014.9	979.6	955.1	938.8	924.7	915.1	905.1	897.6
25°	1057.6	1018.1	972.6	934.3	905.1	889.4	876.0	863.9	857.9	851.1	842.6
27.5°	984.6	940.7	898.1	868.5	842.9	828.9	819.4	811.2	805.5	801.6	796.8
30°	933.1	888.7	855.4	826.2	805.0	791.1	785.0	780.1	773.4	771.0	768.6
32.5°	883.5	843.6	815.1	789.8	769.5	760.4	754.9	750.5	745.3	742.8	738.0
35°	813.5	780.1	752.2	738.2	721.8	713.9	709.7	703.6	698.8	696.3	695.7
37.5°	747.6	718.6	700.2	682.2	675.3	670.5	664.6	660.5	659.1	658.7	658.1
40°	704.8	681.1	664.8	650.2	647.1	639.8	635.0	631.4	631.4	632.0	631.4
42.5°	666.0	644.8	630.3	617.7	614.1	609.7	604.9	604.7	605.6	607.7	605.6
45°	607.1	591.9	581.6	575.5	568.9	564.6	564.0	565.8	566.4	567.0	568.9
47.5°	552.9	542.9	533.5	526.8	523.9	523.2	522.4	525.6	528.5	529.7	532.4
50°	520.9	509.4	501.5	497.2	494.8	493.5	494.8	498.4	500.8	503.9	505.7
52.5°	485.0	476.8	471.3	468.1	467.1	467.9	468.1	472.2	476.1	477.2	478.0
55°	435.3	429.2	428.0	422.6	424.9	424.4	427.4	429.8	433.5	437.1	437.7
57.5°	385.7	380.9	377.6	378.1	378.8	381.5	384.0	388.3	392.2	396.1	396.4
60°	352.8	350.3	348.5	348.5	349.7	353.3	356.3	360.6	363.1	365.4	367.3
62.5°	322.6	320.2	318.4	319.3	322.5	324.6	328.2	330.5	333.0	335.3	336.2
65°	275.0	273.8	275.6	276.9	277.4	280.5	284.7	286.5	289.0	290.2	294.5
67.5°	231.2	231.4	231.2	232.9	236.4	237.1	241.1	245.4	245.9	248.2	251.0
70°	201.5	202.8	204.0	205.2	208.3	209.5	212.5	214.3	216.7	218.6	220.4
72.5°	174.4	174.6	175.8	175.5	178.1	180.8	183.3	185.1	187.6	189.9	191.7
75°	134.2	134.2	135.4	136.0	139.0	142.0	141.5	142.7	145.1	147.5	148.8
77.5°	98.0	96.6	98.0	98.6	99.6	102.1	102.6	104.3	107.1	106.2	107.6
80°	74.7	72.9	74.7	75.3	75.3	78.3	78.3	79.5	81.4	79.5	81.4
82.5°	53.3	52.4	53.8	53.9	54.9	55.0	56.0	56.2	58.1	57.2	58.1
85°	26.7	26.1	26.7	26.1	26.7	27.3	27.3	26.7	26.7	28.0	26.1
87.5°	8.8	8.4	8.0	8.2	7.8	7.4	6.9	7.0	7.1	6.1	6.2
90°	2.8	3.3	3.7	4.2	4.7	5.1	5.4	5.7	5.9	6.3	6.5
92.5°	4.9	5.1	5.2	5.5	5.7	5.9	6.1	6.3	6.4	6.5	6.7
95°	9.1	8.4	8.8	9.2	9.6	10.0	10.3	10.5	10.9	11.1	11.2
97.5°	11.9	9.7	10.6	11.5	12.4	13.4	13.6	13.9	14.0	14.3	14.4
100°	14.2	10.7	11.7	12.7	13.6	14.6	15.1	15.5	16.0	16.4	16.7
102.5°	52.3	47.4	39.3	31.2	23.1	15.0	15.6	16.2	16.8	17.3	17.7
105°	84.7	77.8	62.3	46.7	31.1	15.6	16.2	16.9	17.5	18.1	18.5
107.5°	105.0	96.4	77.8	59.2	40.5	21.9	21.2	20.6	20.0	19.3	19.1
110°	118.3	110.6	94.2	77.7	61.2	44.8	39.1	33.4	27.7	22.0	19.3



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	130.8	129.3	125.2	121.2	117.1	113.0	92.3	71.5	50.8	30.0	19.7
115°	151.1	152.3	153.8	155.2	156.6	158.0	131.7	105.4	79.0	52.6	37.4
117.5°	170.1	171.1	172.1	173.1	174.0	175.1	168.7	162.3	155.9	149.6	139.7
120°	182.7	183.6	184.7	185.7	186.7	187.7	188.5	189.1	189.8	190.4	187.0
122.5°	194.4	195.4	196.5	197.6	198.8	199.9	200.3	200.7	201.1	201.5	200.9
125°	211.2	212.1	213.2	214.3	215.3	216.4	216.8	217.2	217.6	218.0	218.3
127.5°	227.4	228.1	228.9	229.8	230.6	231.4	232.0	232.6	233.1	233.7	234.0
130°	237.7	238.5	239.2	239.8	240.4	241.1	241.6	242.2	242.9	243.5	243.8
132.5°	247.5	248.1	248.7	249.4	250.0	250.6	251.2	251.8	252.2	252.8	253.0
135°	261.3	262.1	262.5	263.1	263.6	264.1	264.7	265.2	265.8	266.3	266.6
137.5°	273.7	274.3	274.9	275.4	276.1	276.6	277.2	277.7	278.3	278.8	279.0
140°	281.8	282.3	283.0	283.6	284.2	284.8	285.3	285.8	286.4	286.8	287.0
142.5°	289.0	289.5	290.3	291.0	291.7	292.4	292.9	293.3	293.8	294.3	294.4
145°	298.7	299.1	300.1	301.1	302.1	303.0	303.4	303.8	304.2	304.6	304.7
147.5°	308.2	308.5	309.4	310.5	311.4	312.4	312.6	312.9	313.2	313.5	313.5
150°	313.9	314.3	315.1	316.1	317.0	317.9	318.2	318.5	318.9	319.2	319.2
152.5°	319.3	319.5	320.4	321.2	322.1	323.0	323.3	323.7	324.0	324.3	324.3
155°	327.1	327.2	327.9	328.5	329.2	329.9	330.3	330.6	330.9	331.3	331.2
157.5°	333.7	333.7	334.2	334.7	335.2	335.6	336.0	336.4	336.8	337.2	337.2
160°	337.8	337.8	338.1	338.4	338.8	339.1	339.5	339.8	340.2	340.5	340.5
162.5°	341.0	341.0	341.3	341.6	341.9	342.2	342.6	342.9	343.3	343.7	343.7
165°	345.5	345.4	345.5	345.7	345.9	346.0	346.4	346.8	347.2	347.6	347.6
167.5°	348.7	348.6	348.8	349.0	349.1	349.3	349.7	350.1	350.5	350.9	350.8
170°	350.5	350.5	350.5	350.7	350.8	350.9	351.3	351.7	352.1	352.5	352.4
172.5°	351.8	351.6	351.8	351.9	352.0	352.1	352.5	352.9	353.3	353.7	353.7
175°	353.2	353.0	353.2	353.2	353.4	353.5	353.9	354.3	354.7	355.1	355.0
177.5°	353.7	353.6	353.6	353.7	353.7	353.8	354.1	354.4	354.7	355.1	355.0
180°	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9



TEST NUMBER: P331420-927

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1515.0	1514.1	1514.1	1509.7	1514.1	1514.1	1515.0	1519.9	1521.4	1522.3	1520.4
5°	1405.4	1403.6	1400.6	1403.6	1400.6	1403.6	1405.4	1413.9	1418.2	1422.4	1426.1
7.5°	1297.0	1289.7	1288.6	1281.4	1288.6	1289.7	1297.0	1301.0	1309.5	1319.1	1327.9
10°	1217.8	1213.0	1212.4	1200.8	1212.4	1213.0	1217.8	1228.1	1236.7	1248.2	1260.3
12.5°	1157.6	1146.0	1148.3	1141.5	1148.3	1146.0	1157.6	1157.7	1167.7	1174.8	1193.8
15°	1053.3	1053.3	1050.9	1040.5	1050.9	1053.3	1053.3	1069.7	1072.7	1084.3	1100.7
17.5°	978.4	977.2	971.4	974.2	971.4	977.2	978.4	990.4	992.4	1007.9	1021.4
20°	933.7	930.1	922.8	922.8	922.8	930.1	933.7	940.4	948.2	957.4	968.9
22.5°	891.4	891.2	883.4	885.9	883.4	891.2	891.4	897.6	905.1	915.1	924.7
25°	842.0	837.2	833.5	835.4	833.5	837.2	842.0	842.6	851.1	857.9	863.9
27.5°	795.2	792.5	792.3	787.3	792.3	792.5	795.2	796.8	801.6	805.5	811.2
30°	767.9	761.9	763.1	760.1	763.1	761.9	767.9	768.6	771.0	773.4	780.1
32.5°	736.9	734.7	733.5	730.9	733.5	734.7	736.9	738.0	742.8	745.3	750.5
35°	694.5	695.1	692.1	693.3	692.1	695.1	694.5	695.7	696.3	698.8	703.6
37.5°	657.5	659.4	658.0	658.3	658.0	659.4	657.5	658.1	658.7	659.1	660.5
40°	633.2	633.2	633.2	635.0	633.2	633.2	633.2	631.4	632.0	631.4	631.4
42.5°	609.9	609.0	607.9	607.8	607.9	609.0	609.9	605.6	607.7	605.6	604.7
45°	570.1	571.9	572.5	569.4	572.5	571.9	570.1	568.9	567.0	566.4	565.8
47.5°	534.0	534.2	534.0	536.7	534.0	534.2	534.0	532.4	529.7	528.5	525.6
50°	508.7	507.6	508.7	507.6	508.7	507.6	508.7	505.7	503.9	500.8	498.4
52.5°	482.0	482.3	481.6	481.3	481.6	482.3	482.0	478.0	477.2	476.1	472.2
55°	440.1	441.3	440.8	440.8	440.8	441.3	440.1	437.7	437.1	433.5	429.8
57.5°	396.8	397.9	398.7	396.1	398.7	397.9	396.8	396.4	396.1	392.2	388.3
60°	366.7	369.7	369.1	367.9	369.1	369.7	366.7	367.3	365.4	363.1	360.6
62.5°	339.0	340.1	340.0	339.8	340.0	340.1	339.0	336.2	335.3	333.0	330.5
65°	296.3	297.5	295.6	297.5	295.6	297.5	296.3	294.5	290.2	289.0	286.5
67.5°	250.3	250.6	251.9	252.8	251.9	250.6	250.3	251.0	248.2	245.9	245.4
70°	221.6	221.0	222.8	224.7	222.8	221.0	221.6	220.4	218.6	216.7	214.3
72.5°	191.5	192.8	192.2	193.5	192.2	192.8	191.5	191.7	189.9	187.6	185.1
75°	147.5	149.3	148.8	150.6	148.8	149.3	147.5	148.8	147.5	145.1	142.7
77.5°	106.6	106.9	106.6	107.6	106.6	106.9	106.6	107.6	106.2	107.1	104.3
80°	81.4	80.2	78.9	81.4	78.9	80.2	81.4	81.4	79.5	81.4	79.5
82.5°	56.6	57.3	56.1	56.1	56.1	57.3	56.6	58.1	57.2	58.1	56.2
85°	26.1	25.5	24.3	24.3	24.3	25.5	26.1	26.1	28.0	26.7	26.7
87.5°	6.2	5.7	5.7	5.3	5.7	5.7	6.2	6.2	6.1	7.1	7.0
90°	6.6	6.7	6.8	6.9	6.8	6.7	6.6	6.5	6.3	5.9	5.7
92.5°	6.7	6.8	6.8	6.9	6.8	6.8	6.7	6.7	6.5	6.4	6.3
95°	11.2	11.1	11.1	11.0	11.1	11.1	11.2	11.2	11.1	10.9	10.5
97.5°	14.5	14.6	14.7	14.7	14.7	14.6	14.5	14.4	14.3	14.0	13.9
100°	16.8	17.0	17.0	17.2	17.0	17.0	16.8	16.7	16.4	16.0	15.5
102.5°	17.9	18.1	18.2	18.4	18.2	18.1	17.9	17.7	17.3	16.8	16.2
105°	18.8	19.0	19.3	19.5	19.3	19.0	18.8	18.5	18.1	17.5	16.9
107.5°	19.3	19.6	19.8	20.0	19.8	19.6	19.3	19.1	19.3	20.0	20.6
110°	19.6	19.8	20.0	20.2	20.0	19.8	19.6	19.3	22.0	27.7	33.4



TEST NUMBER: P331420-927

CATALOG NUMBER: SA2XXDIP-C1005D330U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	19.9	20.0	20.3	20.4	20.3	20.0	19.9	19.7	30.0	50.8	71.5
115°	33.3	29.2	25.1	21.0	25.1	29.2	33.3	37.4	52.6	79.0	105.4
117.5°	126.2	112.7	99.3	85.8	99.3	112.7	126.2	139.7	149.6	155.9	162.3
120°	179.3	171.6	163.9	156.2	163.9	171.6	179.3	187.0	190.4	189.8	189.1
122.5°	199.5	198.0	196.5	195.0	196.5	198.0	199.5	200.9	201.5	201.1	200.7
125°	218.5	218.6	218.8	219.0	218.8	218.6	218.5	218.3	218.0	217.6	217.2
127.5°	234.1	234.1	234.1	234.2	234.1	234.1	234.1	234.0	233.7	233.1	232.6
130°	243.8	243.7	243.7	243.6	243.7	243.7	243.8	243.8	243.5	242.9	242.2
132.5°	252.9	252.9	252.9	252.8	252.9	252.9	252.9	253.0	252.8	252.2	251.8
135°	266.5	266.3	266.3	266.1	266.3	266.3	266.5	266.6	266.3	265.8	265.2
137.5°	278.8	278.7	278.5	278.3	278.5	278.7	278.8	279.0	278.8	278.3	277.7
140°	286.7	286.5	286.1	285.8	286.1	286.5	286.7	287.0	286.8	286.4	285.8
142.5°	294.1	293.8	293.5	293.2	293.5	293.8	294.1	294.4	294.3	293.8	293.3
145°	304.4	304.1	303.8	303.5	303.8	304.1	304.4	304.7	304.6	304.2	303.8
147.5°	313.3	313.1	312.8	312.6	312.8	313.1	313.3	313.5	313.5	313.2	312.9
150°	319.0	318.7	318.4	318.1	318.4	318.7	319.0	319.2	319.2	318.9	318.5
152.5°	323.9	323.6	323.2	322.8	323.2	323.6	323.9	324.3	324.3	324.0	323.7
155°	330.7	330.3	329.9	329.4	329.9	330.3	330.7	331.2	331.3	330.9	330.6
157.5°	336.7	336.3	335.8	335.4	335.8	336.3	336.7	337.2	337.2	336.8	336.4
160°	340.1	339.7	339.3	338.9	339.3	339.7	340.1	340.5	340.5	340.2	339.8
162.5°	343.2	342.7	342.2	341.7	342.2	342.7	343.2	343.7	343.7	343.3	342.9
165°	347.2	346.8	346.4	346.0	346.4	346.8	347.2	347.6	347.6	347.2	346.8
167.5°	350.3	349.7	349.3	348.7	349.3	349.7	350.3	350.8	350.9	350.5	350.1
170°	352.0	351.4	350.9	350.4	350.9	351.4	352.0	352.4	352.5	352.1	351.7
172.5°	353.2	352.7	352.1	351.6	352.1	352.7	353.2	353.7	353.7	353.3	352.9
175°	354.4	353.9	353.2	352.7	353.2	353.9	354.4	355.0	355.1	354.7	354.3
177.5°	354.6	354.2	353.8	353.4	353.8	354.2	354.6	355.0	355.1	354.7	354.4
180°	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9



TEST NUMBER: P331420-927

CATALOG NUMBER: SA2XXDIP-C1005D330U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1518.0	1523.3	1531.6	1540.3	1545.6	1555.8	1558.8	1563.6	1568.0	1578.2	1588.9
5°	1430.3	1438.8	1458.8	1469.7	1484.9	1502.5	1514.1	1526.2	1539.6	1562.7	1583.9
7.5°	1336.3	1350.5	1375.4	1395.8	1417.5	1442.7	1460.9	1484.9	1504.8	1537.4	1568.4
10°	1273.7	1293.7	1316.2	1340.5	1370.8	1397.5	1423.0	1453.3	1477.7	1516.5	1552.9
12.5°	1217.3	1220.4	1252.5	1279.3	1320.8	1353.8	1383.2	1422.3	1446.0	1492.2	1530.6
15°	1118.9	1137.1	1166.3	1187.5	1236.7	1278.5	1319.8	1360.5	1387.8	1444.9	1495.2
17.5°	1035.9	1052.7	1082.6	1117.4	1152.7	1194.4	1247.8	1290.7	1327.9	1393.1	1452.6
20°	983.5	1004.1	1034.5	1070.3	1101.3	1146.8	1192.9	1242.1	1282.1	1355.7	1425.5
22.5°	938.8	955.1	979.6	1014.9	1048.8	1090.4	1141.0	1194.5	1236.5	1315.8	1386.6
25°	876.0	889.4	905.1	934.3	972.6	1018.1	1057.6	1116.4	1177.7	1251.8	1337.4
27.5°	819.4	828.9	842.9	868.5	898.1	940.7	984.6	1040.5	1102.1	1182.5	1272.8
30°	785.0	791.1	805.0	826.2	855.4	888.7	933.1	986.5	1049.6	1131.0	1220.8
32.5°	754.9	760.4	769.5	789.8	815.1	843.6	883.5	937.0	997.2	1077.1	1176.6
35°	709.7	713.9	721.8	738.2	752.2	780.1	813.5	862.1	918.5	995.1	1098.2
37.5°	664.6	670.5	675.3	682.2	700.2	718.6	747.6	788.6	844.0	921.2	1019.5
40°	635.0	639.8	647.1	650.2	664.8	681.1	704.8	742.4	798.4	868.7	964.6
42.5°	604.9	609.7	614.1	617.7	630.3	644.8	666.0	698.3	747.8	816.3	911.2
45°	564.0	564.6	568.9	575.5	581.6	591.9	607.1	635.0	673.3	737.6	823.8
47.5°	522.4	523.2	523.9	526.8	533.5	542.9	552.9	575.7	609.9	661.2	745.1
50°	494.8	493.5	494.8	497.2	501.5	509.4	520.9	537.3	565.2	613.1	690.2
52.5°	468.1	467.9	467.1	468.1	471.3	476.8	485.0	498.9	523.9	568.0	635.9
55°	427.4	424.4	424.9	422.6	428.0	429.2	435.3	446.8	468.7	499.0	562.8
57.5°	384.0	381.5	378.8	378.1	377.6	380.9	385.7	394.8	411.6	438.2	489.9
60°	356.3	353.3	349.7	348.5	348.5	350.3	352.8	359.4	375.2	398.9	441.3
62.5°	328.2	324.6	322.5	319.3	318.4	320.2	322.6	327.3	338.7	361.0	397.7
65°	284.7	280.5	277.4	276.9	275.6	273.8	275.0	279.9	289.0	306.6	335.7
67.5°	241.1	237.1	236.4	232.9	231.2	231.4	231.2	235.3	240.7	256.0	277.7
70°	212.5	209.5	208.3	205.2	204.0	202.8	201.5	205.2	210.6	223.4	242.2
72.5°	183.3	180.8	178.1	175.5	175.8	174.6	174.4	176.6	181.0	192.8	207.2
75°	141.5	142.0	139.0	136.0	135.4	134.2	134.2	136.0	137.8	146.9	158.4
77.5°	102.6	102.1	99.6	98.6	98.0	96.6	98.0	99.2	100.1	106.2	114.7
80°	78.3	78.3	75.3	75.3	74.7	72.9	74.7	73.4	75.9	82.0	88.0
82.5°	56.0	55.0	54.9	53.9	53.8	52.4	53.3	54.5	55.5	59.7	63.3
85°	27.3	27.3	26.7	26.1	26.7	26.1	26.7	27.3	28.0	29.8	32.8
87.5°	6.9	7.4	7.8	8.2	8.0	8.4	8.8	9.2	10.0	10.4	10.8
90°	5.4	5.1	4.7	4.2	3.7	3.3	2.8	2.1	1.5	0.9	0.2
92.5°	6.1	5.9	5.7	5.5	5.2	5.1	4.9	5.0	5.1	5.1	5.1
95°	10.3	10.0	9.6	9.2	8.8	8.4	9.1	11.0	12.9	14.7	16.6
97.5°	13.6	13.4	12.4	11.5	10.6	9.7	11.9	17.2	22.4	27.7	33.0
100°	15.1	14.6	13.6	12.7	11.7	10.7	14.2	21.9	29.7	37.5	45.3
102.5°	15.6	15.0	23.1	31.2	39.3	47.4	52.3	53.9	55.5	57.2	58.9
105°	16.2	15.6	31.1	46.7	62.3	77.8	84.7	83.0	81.3	79.5	77.9
107.5°	21.2	21.9	40.5	59.2	77.8	96.4	105.0	103.7	102.3	100.9	99.5
110°	39.1	44.8	61.2	77.7	94.2	110.6	118.3	117.1	115.9	114.6	113.4



TEST NUMBER: P331420-927

CATALOG NUMBER: SA2XXDIP-C1005D330U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	92.3	113.0	117.1	121.2	125.2	129.3	130.8	129.8	128.7	127.6	126.6
115°	131.7	158.0	156.6	155.2	153.8	152.3	151.1	150.2	149.2	148.2	147.3
117.5°	168.7	175.1	174.0	173.1	172.1	171.1	170.1	169.1	167.9	166.8	165.8
120°	188.5	187.7	186.7	185.7	184.7	183.6	182.7	181.9	181.0	180.1	179.3
122.5°	200.3	199.9	198.8	197.6	196.5	195.4	194.4	193.5	192.6	191.7	190.8
125°	216.8	216.4	215.3	214.3	213.2	212.1	211.2	210.5	209.7	209.0	208.3
127.5°	232.0	231.4	230.6	229.8	228.9	228.1	227.4	226.6	225.7	224.9	224.0
130°	241.6	241.1	240.4	239.8	239.2	238.5	237.7	236.9	235.9	235.0	234.1
132.5°	251.2	250.6	250.0	249.4	248.7	248.1	247.5	246.7	245.9	245.1	244.4
135°	264.7	264.1	263.6	263.1	262.5	262.1	261.3	260.4	259.5	258.6	257.7
137.5°	277.2	276.6	276.1	275.4	274.9	274.3	273.7	273.1	272.4	271.8	271.2
140°	285.3	284.8	284.2	283.6	283.0	282.3	281.8	281.3	280.8	280.4	280.0
142.5°	292.9	292.4	291.7	291.0	290.3	289.5	289.0	288.6	288.1	287.7	287.3
145°	303.4	303.0	302.1	301.1	300.1	299.1	298.7	298.7	298.8	298.9	298.9
147.5°	312.6	312.4	311.4	310.5	309.4	308.5	308.2	308.3	308.6	308.8	309.0
150°	318.2	317.9	317.0	316.1	315.1	314.3	313.9	314.3	314.7	315.1	315.5
152.5°	323.3	323.0	322.1	321.2	320.4	319.5	319.3	319.7	320.2	320.7	321.1
155°	330.3	329.9	329.2	328.5	327.9	327.2	327.1	327.6	328.1	328.6	329.2
157.5°	336.0	335.6	335.2	334.7	334.2	333.7	333.7	334.1	334.5	335.0	335.4
160°	339.5	339.1	338.8	338.4	338.1	337.8	337.8	338.1	338.4	338.8	339.1
162.5°	342.6	342.2	341.9	341.6	341.3	341.0	341.0	341.4	341.7	342.1	342.4
165°	346.4	346.0	345.9	345.7	345.5	345.4	345.5	345.8	346.1	346.5	346.8
167.5°	349.7	349.3	349.1	349.0	348.8	348.6	348.7	349.0	349.4	349.7	350.1
170°	351.3	350.9	350.8	350.7	350.5	350.5	350.5	350.9	351.3	351.6	352.0
172.5°	352.5	352.1	352.0	351.9	351.8	351.6	351.8	352.1	352.4	352.8	353.2
175°	353.9	353.5	353.4	353.2	353.2	353.0	353.2	353.6	353.9	354.3	354.7
177.5°	354.1	353.8	353.7	353.7	353.6	353.6	353.7	354.0	354.3	354.7	355.0
180°	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9



TEST NUMBER: P331420-927

CATALOG NUMBER: SA2XXDIP-C1005D330U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1587.9	1590.3	1598.1	1605.9	1614.6	1617.1	1621.0	1617.6	1616.5	1625.8	1632.6
5°	1592.4	1603.3	1624.6	1644.0	1660.4	1671.9	1684.1	1688.9	1698.0	1710.8	1726.6
7.5°	1587.3	1608.5	1642.0	1670.2	1701.1	1723.3	1740.7	1755.5	1773.5	1797.6	1823.9
10°	1581.4	1610.0	1650.7	1685.3	1722.9	1751.4	1775.1	1798.2	1825.0	1858.3	1892.9
12.5°	1570.8	1604.6	1655.5	1696.5	1744.8	1772.8	1804.7	1854.6	1883.2	1929.7	1978.4
15°	1549.3	1586.9	1658.0	1708.3	1763.0	1816.4	1875.3	1922.6	1970.0	1997.3	2065.9
17.5°	1517.3	1572.6	1651.3	1710.1	1779.5	1863.6	1929.8	1983.5	2038.1	2082.4	2116.8
20°	1491.6	1551.7	1641.6	1712.0	1794.5	1885.0	1960.9	2015.5	2062.9	2099.9	2121.1
22.5°	1459.0	1534.7	1622.2	1704.7	1810.1	1899.6	1979.3	2022.4	2061.9	2080.0	2088.1
25°	1407.9	1498.9	1597.8	1698.7	1817.7	1912.3	1985.2	2011.3	2022.8	2005.3	1976.1
27.5°	1352.6	1454.1	1569.8	1687.2	1813.0	1904.1	1956.3	1952.2	1932.6	1875.7	1830.1
30°	1311.3	1423.0	1547.4	1675.5	1801.8	1890.5	1920.8	1890.5	1846.2	1782.4	1717.5
32.5°	1268.1	1383.7	1523.7	1659.1	1781.5	1859.4	1866.0	1813.8	1745.2	1672.7	1591.7
35°	1202.6	1327.7	1478.8	1622.2	1738.1	1787.2	1758.2	1665.9	1584.5	1485.6	1375.1
37.5°	1128.7	1266.8	1418.4	1568.1	1673.2	1686.0	1613.7	1516.5	1401.8	1285.5	1155.4
40°	1073.3	1219.6	1375.7	1526.9	1619.7	1606.4	1514.1	1407.2	1270.7	1128.5	1007.7
42.5°	1023.8	1170.1	1329.0	1477.3	1551.7	1515.0	1407.2	1276.1	1129.3	995.5	884.9
45°	937.9	1088.5	1251.3	1394.5	1437.0	1370.8	1228.1	1082.4	937.9	826.2	738.9
47.5°	854.7	1003.5	1164.7	1290.5	1305.6	1216.6	1060.7	910.8	786.6	695.6	633.9
50°	793.4	942.8	1102.5	1214.8	1209.9	1102.5	942.2	799.5	695.7	622.3	581.0
52.5°	738.6	879.6	1033.0	1135.1	1109.4	992.2	839.2	712.6	627.2	569.8	532.4
55°	653.2	783.8	929.5	1011.4	964.1	834.2	704.8	602.9	539.7	496.6	467.5
57.5°	568.5	690.9	815.6	866.1	813.7	693.8	586.0	512.0	464.5	432.6	413.7
60°	516.0	622.9	734.0	777.7	715.2	608.3	523.3	457.2	418.9	392.8	375.8
62.5°	463.6	559.3	664.0	687.9	630.7	540.3	465.0	410.0	378.6	355.4	339.4
65°	392.2	470.5	550.0	565.8	513.0	443.1	383.7	347.8	320.0	302.9	290.2
67.5°	321.6	384.5	440.8	453.6	407.3	358.9	315.9	284.7	265.8	251.7	240.9
70°	279.9	329.6	375.8	386.1	349.1	305.9	273.2	248.3	231.3	219.2	208.8
72.5°	235.7	277.2	315.5	322.5	292.2	259.4	232.4	212.9	197.8	190.0	180.2
75°	180.3	204.6	234.3	236.1	216.1	196.1	175.5	162.7	154.8	145.1	140.2
77.5°	127.2	146.3	163.3	166.6	154.7	141.1	129.5	119.5	112.8	108.3	103.8
80°	97.1	112.3	119.6	123.8	115.3	105.6	98.9	92.3	88.0	85.0	82.0
82.5°	69.5	78.8	85.6	88.9	84.3	78.4	71.8	68.0	64.7	62.2	61.1
85°	35.2	39.5	43.7	44.9	43.7	41.3	37.6	37.6	35.8	35.2	35.2
87.5°	12.3	14.4	14.5	16.1	15.2	15.3	15.4	15.1	14.7	14.2	13.8
90°	0.9	1.5	2.1	2.8	3.3	3.7	4.2	4.7	5.1	5.4	5.7
92.5°	5.1	5.1	5.0	4.9	5.1	5.2	5.5	5.7	5.9	6.1	6.3
95°	14.7	12.9	11.0	9.1	8.4	8.8	9.2	9.6	10.0	10.3	10.5
97.5°	27.7	22.4	17.2	11.9	9.7	10.6	11.5	12.4	13.4	13.6	13.9
100°	37.5	29.7	21.9	14.2	10.7	11.7	12.7	13.6	14.6	15.1	15.5
102.5°	57.2	55.5	53.9	52.3	47.4	39.3	31.2	23.1	15.0	15.6	16.2
105°	79.5	81.3	83.0	84.7	77.8	62.3	46.7	31.1	15.6	16.2	16.9
107.5°	100.9	102.3	103.7	105.0	96.4	77.8	59.2	40.5	21.9	21.2	20.6
110°	114.6	115.9	117.1	118.3	110.6	94.2	77.7	61.2	44.8	39.1	33.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	127.6	128.7	129.8	130.8	129.3	125.2	121.2	117.1	113.0	92.3	71.5
115°	148.2	149.2	150.2	151.1	152.3	153.8	155.2	156.6	158.0	131.7	105.4
117.5°	166.8	167.9	169.1	170.1	171.1	172.1	173.1	174.0	175.1	168.7	162.3
120°	180.1	181.0	181.9	182.7	183.6	184.7	185.7	186.7	187.7	188.5	189.1
122.5°	191.7	192.6	193.5	194.4	195.4	196.5	197.6	198.8	199.9	200.3	200.7
125°	209.0	209.7	210.5	211.2	212.1	213.2	214.3	215.3	216.4	216.8	217.2
127.5°	224.9	225.7	226.6	227.4	228.1	228.9	229.8	230.6	231.4	232.0	232.6
130°	235.0	235.9	236.9	237.7	238.5	239.2	239.8	240.4	241.1	241.6	242.2
132.5°	245.1	245.9	246.7	247.5	248.1	248.7	249.4	250.0	250.6	251.2	251.8
135°	258.6	259.5	260.4	261.3	262.1	262.5	263.1	263.6	264.1	264.7	265.2
137.5°	271.8	272.4	273.1	273.7	274.3	274.9	275.4	276.1	276.6	277.2	277.7
140°	280.4	280.8	281.3	281.8	282.3	283.0	283.6	284.2	284.8	285.3	285.8
142.5°	287.7	288.1	288.6	289.0	289.5	290.3	291.0	291.7	292.4	292.9	293.3
145°	298.9	298.8	298.7	298.7	299.1	300.1	301.1	302.1	303.0	303.4	303.8
147.5°	308.8	308.6	308.3	308.2	308.5	309.4	310.5	311.4	312.4	312.6	312.9
150°	315.1	314.7	314.3	313.9	314.3	315.1	316.1	317.0	317.9	318.2	318.5
152.5°	320.7	320.2	319.7	319.3	319.5	320.4	321.2	322.1	323.0	323.3	323.7
155°	328.6	328.1	327.6	327.1	327.2	327.9	328.5	329.2	329.9	330.3	330.6
157.5°	335.0	334.5	334.1	333.7	333.7	334.2	334.7	335.2	335.6	336.0	336.4
160°	338.8	338.4	338.1	337.8	337.8	338.1	338.4	338.8	339.1	339.5	339.8
162.5°	342.1	341.7	341.4	341.0	341.0	341.3	341.6	341.9	342.2	342.6	342.9
165°	346.5	346.1	345.8	345.5	345.4	345.5	345.7	345.9	346.0	346.4	346.8
167.5°	349.7	349.4	349.0	348.7	348.6	348.8	349.0	349.1	349.3	349.7	350.1
170°	351.6	351.3	350.9	350.5	350.5	350.5	350.7	350.8	350.9	351.3	351.7
172.5°	352.8	352.4	352.1	351.8	351.6	351.8	351.9	352.0	352.1	352.5	352.9
175°	354.3	353.9	353.6	353.2	353.0	353.2	353.2	353.4	353.5	353.9	354.3
177.5°	354.7	354.3	354.0	353.7	353.6	353.6	353.7	353.7	353.8	354.1	354.4
180°	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9	353.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1638.4	1645.2	1645.2	1646.2	1653.9	1653.0	1652.5
5°	1743.6	1753.9	1755.1	1766.0	1773.3	1770.8	1764.2
7.5°	1842.8	1861.9	1876.5	1884.7	1894.3	1900.2	1897.5
10°	1921.4	1949.4	1966.4	1977.9	1991.9	2002.2	1998.5
12.5°	1992.8	2026.1	2049.5	2069.2	2071.0	2084.2	2075.3
15°	2104.2	2139.4	2143.0	2157.6	2169.2	2167.9	2168.5
17.5°	2141.0	2152.3	2154.6	2154.9	2155.1	2150.8	2141.6
20°	2127.9	2123.6	2113.3	2105.4	2091.4	2089.6	2077.5
22.5°	2065.7	2052.2	2026.3	2009.2	1987.5	1981.8	1978.4
25°	1943.3	1913.5	1872.2	1832.8	1821.9	1800.6	1806.7
27.5°	1775.4	1729.0	1684.3	1652.3	1623.3	1591.4	1600.5
30°	1657.3	1605.1	1542.0	1493.4	1462.4	1432.1	1426.6
32.5°	1516.5	1440.0	1369.6	1326.8	1279.4	1260.2	1239.2
35°	1273.7	1199.0	1129.2	1069.1	1034.5	1007.7	983.5
37.5°	1055.3	969.3	912.9	864.3	839.2	823.9	827.8
40°	919.7	844.5	803.2	766.1	743.1	732.1	734.6
42.5°	810.0	753.6	719.6	694.3	678.0	671.9	670.5
45°	685.4	653.9	625.9	611.3	603.5	596.8	592.6
47.5°	600.4	574.6	558.9	550.2	543.4	536.5	536.4
50°	549.4	532.4	521.5	512.4	506.9	502.1	506.3
52.5°	510.6	495.0	484.1	475.9	473.9	469.5	469.4
55°	452.9	440.8	432.8	425.6	421.9	419.5	416.5
57.5°	400.4	388.9	381.6	377.0	370.1	367.7	366.7
60°	363.1	353.9	346.7	340.6	337.5	332.7	332.7
62.5°	328.5	319.5	312.7	308.0	303.1	301.1	301.6
65°	278.7	271.4	264.7	259.8	258.6	255.0	256.2
67.5°	232.7	227.9	220.9	218.2	215.9	214.0	212.5
70°	202.2	197.3	193.7	190.0	188.2	188.2	188.2
72.5°	176.4	170.6	168.4	163.8	164.9	163.0	161.0
75°	136.6	132.9	131.1	129.3	126.3	126.3	126.3
77.5°	100.5	99.4	97.3	95.3	94.6	94.0	94.2
80°	77.7	77.1	75.9	75.9	74.7	74.1	72.9
82.5°	59.7	58.1	57.4	57.0	56.7	56.6	56.3
85°	34.0	32.8	32.8	33.4	32.2	32.2	32.8
87.5°	14.3	14.3	13.9	13.9	14.4	14.0	14.0
90°	5.9	6.3	6.5	6.6	6.7	6.8	6.9
92.5°	6.4	6.5	6.7	6.7	6.8	6.8	6.9
95°	10.9	11.1	11.2	11.2	11.1	11.1	11.0
97.5°	14.0	14.3	14.4	14.5	14.6	14.7	14.7
100°	16.0	16.4	16.7	16.8	17.0	17.0	17.2
102.5°	16.8	17.3	17.7	17.9	18.1	18.2	18.4
105°	17.5	18.1	18.5	18.8	19.0	19.3	19.5
107.5°	20.0	19.3	19.1	19.3	19.6	19.8	20.0
110°	27.7	22.0	19.3	19.6	19.8	20.0	20.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	50.8	30.0	19.7	19.9	20.0	20.3	20.4
115°	79.0	52.6	37.4	33.3	29.2	25.1	21.0
117.5°	155.9	149.6	139.7	126.2	112.7	99.3	85.8
120°	189.8	190.4	187.0	179.3	171.6	163.9	156.2
122.5°	201.1	201.5	200.9	199.5	198.0	196.5	195.0
125°	217.6	218.0	218.3	218.5	218.6	218.8	219.0
127.5°	233.1	233.7	234.0	234.1	234.1	234.1	234.2
130°	242.9	243.5	243.8	243.8	243.7	243.7	243.6
132.5°	252.2	252.8	253.0	252.9	252.9	252.9	252.8
135°	265.8	266.3	266.6	266.5	266.3	266.3	266.1
137.5°	278.3	278.8	279.0	278.8	278.7	278.5	278.3
140°	286.4	286.8	287.0	286.7	286.5	286.1	285.8
142.5°	293.8	294.3	294.4	294.1	293.8	293.5	293.2
145°	304.2	304.6	304.7	304.4	304.1	303.8	303.5
147.5°	313.2	313.5	313.5	313.3	313.1	312.8	312.6
150°	318.9	319.2	319.2	319.0	318.7	318.4	318.1
152.5°	324.0	324.3	324.3	323.9	323.6	323.2	322.8
155°	330.9	331.3	331.2	330.7	330.3	329.9	329.4
157.5°	336.8	337.2	337.2	336.7	336.3	335.8	335.4
160°	340.2	340.5	340.5	340.1	339.7	339.3	338.9
162.5°	343.3	343.7	343.7	343.2	342.7	342.2	341.7
165°	347.2	347.6	347.6	347.2	346.8	346.4	346.0
167.5°	350.5	350.9	350.8	350.3	349.7	349.3	348.7
170°	352.1	352.5	352.4	352.0	351.4	350.9	350.4
172.5°	353.3	353.7	353.7	353.2	352.7	352.1	351.6
175°	354.7	355.1	355.0	354.4	353.9	353.2	352.7
177.5°	354.7	355.1	355.0	354.6	354.2	353.8	353.4
180°	353.9	353.9	353.9	353.9	353.9	353.9	353.9

(END OF REPORT)