

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: P332634-927

Luminaire Tested: **SA4XXDIP-C1020D590U927-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332634-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-C1020D590U927-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 590 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5518.1 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Direct

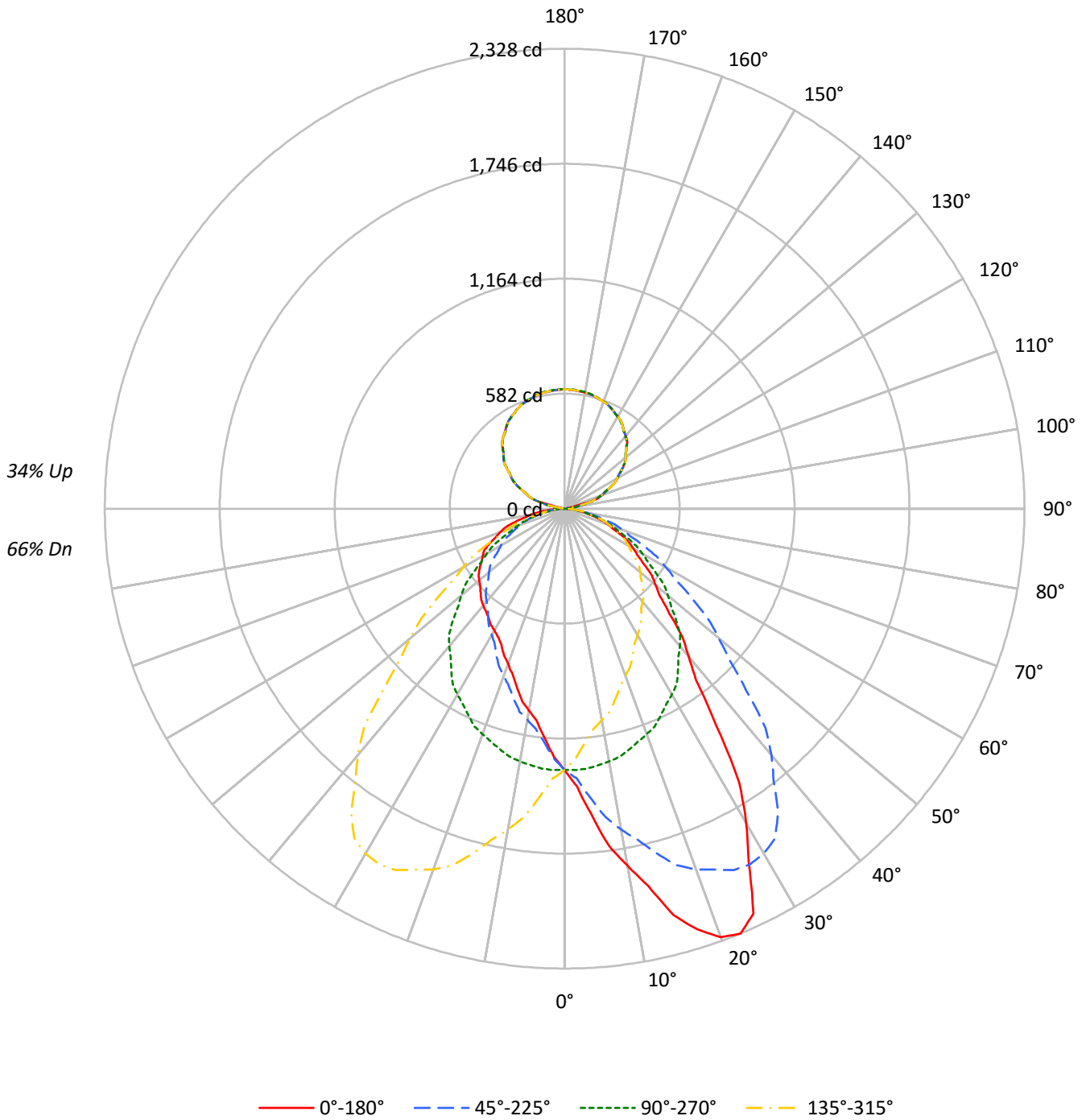
Input Watts (W): 48.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66
1	102	97	93	90	96	92	88	85	81	79	77	72	70	68	63	62	60	56
2	93	85	79	74	87	81	75	71	72	68	64	64	60	58	56	54	51	48
3	85	75	68	62	80	71	65	59	64	58	54	56	52	49	50	47	44	41
4	78	67	59	53	73	63	56	51	57	51	46	51	46	42	45	41	38	35
5	72	60	52	46	67	57	49	44	51	45	40	46	41	37	40	37	34	31
6	66	54	46	40	62	51	44	38	46	40	35	41	36	33	37	33	30	27
7	61	49	41	35	58	46	39	34	42	36	31	38	33	29	34	30	26	24
8	57	45	37	31	54	42	35	30	38	32	28	35	30	26	31	27	24	22
9	53	41	33	28	50	39	32	27	35	29	25	32	27	23	29	25	22	20
10	50	38	30	25	47	36	29	24	33	27	23	30	25	21	27	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10672	10672	10672	10672
5°	12568	10699	9444	10699
10°	15048	10653	8502	10653
15°	17804	10546	7809	10546
20°	19826	10436	7189	10436
25°	20147	10273	6762	10273
30°	17143	10118	6626	10118
35°	13180	9866	6628	9866
40°	10273	9569	6752	9569
45°	8566	9122	6865	9122
50°	7538	8577	7097	8577
55°	6906	7924	7385	7924
60°	6471	7340	7727	7340
65°	6025	6684	8013	6684
70°	5507	6035	8195	6035
75°	4919	5312	8097	5312
80°	4124	4351	7843	4351
85°	3047	3149	7503	3149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	2.3
10°-20°	397.0	7.2
20°-30°	629.5	11.4
30°-40°	700.6	12.7
40°-50°	637.7	11.6
50°-60°	521.1	9.4
60°-70°	372.0	6.7
70°-80°	204.9	3.7
80°-90°	57.7	1.0
90°-100°	20.7	0.4
100°-110°	131.7	2.4
110°-120°	252.0	4.6
120°-130°	319.9	5.8
130°-140°	342.3	6.2
140°-150°	320.1	5.8
150°-160°	258.1	4.7
160°-170°	166.5	3.0
170°-180°	57.4	1.0
0°-30°	1155.3	20.9
0°-40°	1855.8	33.6
0°-60°	3014.6	54.6
0°-90°	3649.2	66.1
90°-120°	404.5	7.3
90°-150°	1386.8	25.1
90°-180°	1869.0	33.9
0°-180°	5518.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1322	1322	1322	1322	1322	
5°	1551	1320	1165	1320	1551	158
15°	2130	1262	934	1262	2130	602
25°	2262	1153	759	1153	2262	997
35°	1337	1001	672	1001	1337	849
45°	750	799	601	799	750	591
55°	491	563	525	563	491	443
65°	315	350	420	350	315	312
75°	158	170	260	170	158	168
85°	33	34	81	34	33	40
90°	14	1	14	1	14	7
95°	13	25	13	25	13	10
105°	129	136	129	136	129	112
115°	256	254	256	254	256	253
125°	360	357	360	357	360	320
135°	446	443	446	443	446	343
145°	513	511	513	511	513	321
155°	559	560	559	560	559	258
165°	588	591	588	591	588	166
175°	601	604	601	604	601	57
180°	604	604	604	604	604	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1407.0	1406.6	1402.2	1401.3	1398.2	1394.3	1393.4	1386.4	1372.4	1365.8	1364.1
5°	1550.9	1561.9	1547.6	1544.9	1543.3	1525.2	1515.8	1504.9	1479.7	1464.9	1453.4
7.5°	1722.7	1723.9	1717.8	1712.7	1698.8	1683.0	1659.4	1634.2	1604.2	1573.0	1549.4
10°	1835.7	1840.1	1833.0	1831.8	1804.0	1786.4	1751.4	1721.8	1687.8	1650.0	1615.6
12.5°	1954.9	1948.7	1945.1	1921.7	1916.5	1884.5	1843.8	1813.4	1761.0	1717.5	1671.6
15°	2130.3	2118.3	2110.6	2078.3	2062.4	2018.1	1974.8	1941.4	1873.0	1807.8	1758.5
17.5°	2233.2	2245.4	2227.6	2214.3	2173.3	2142.1	2097.9	2027.8	1974.3	1893.3	1831.1
20°	2307.8	2308.8	2299.0	2285.3	2253.0	2213.6	2165.4	2088.7	2024.7	1944.1	1858.7
22.5°	2327.9	2328.1	2323.9	2311.1	2286.7	2254.7	2206.1	2142.1	2064.5	1977.0	1891.6
25°	2261.8	2259.5	2264.5	2278.7	2269.4	2259.5	2231.7	2184.0	2111.7	2019.1	1927.1
27.5°	2015.9	2031.1	2058.9	2094.0	2127.7	2153.5	2160.7	2150.9	2106.1	2030.0	1933.6
30°	1839.0	1857.6	1878.4	1913.4	1981.3	2020.2	2063.0	2095.2	2077.2	2016.4	1926.6
32.5°	1644.5	1649.1	1680.0	1719.8	1782.0	1856.8	1924.5	1990.1	2011.9	1980.1	1905.1
35°	1337.4	1345.0	1378.4	1417.8	1494.0	1585.4	1687.3	1778.2	1853.2	1883.3	1845.0
37.5°	1091.3	1113.3	1136.9	1179.3	1246.3	1328.6	1434.5	1552.1	1664.0	1738.8	1751.6
40°	974.8	988.5	1005.4	1037.8	1094.7	1175.8	1266.7	1401.4	1520.3	1627.6	1662.6
42.5°	882.8	890.8	901.2	930.4	973.8	1054.4	1137.4	1255.9	1375.2	1503.6	1562.3
45°	750.3	758.5	776.0	793.0	825.9	881.7	958.9	1056.4	1176.3	1300.1	1408.5
47.5°	654.5	659.8	670.2	688.4	716.3	753.1	815.9	897.4	1008.5	1128.7	1244.2
50°	600.2	604.6	612.8	629.2	650.6	683.4	734.9	811.0	898.1	1019.1	1132.5
52.5°	557.3	559.0	565.1	576.2	593.2	620.8	663.1	726.0	807.0	914.9	1027.8
55°	490.7	492.9	498.4	506.6	521.3	538.8	571.2	618.3	689.0	782.6	880.6
57.5°	435.9	437.4	442.0	445.2	457.4	471.7	496.5	530.1	583.7	663.1	750.6
60°	400.8	399.8	405.3	408.0	416.2	428.3	447.4	479.7	526.2	590.3	670.8
62.5°	366.7	365.2	369.8	373.4	378.1	388.4	404.0	429.4	467.1	525.1	594.6
65°	315.4	313.2	316.0	320.4	324.7	330.3	341.7	364.2	394.3	435.9	489.0
67.5°	264.0	266.3	266.7	268.9	271.4	278.8	286.8	302.6	323.8	357.2	402.2
70°	233.3	233.9	236.1	236.1	237.7	244.2	250.8	260.2	280.9	311.6	348.3
72.5°	202.6	204.9	204.1	205.8	207.0	211.4	216.2	225.1	242.8	265.6	296.6
75°	157.7	159.4	159.4	159.9	161.5	163.2	167.0	173.6	186.2	203.2	224.5
77.5°	115.0	115.3	116.0	118.0	118.0	120.6	123.4	128.7	134.9	146.6	159.5
80°	88.7	89.8	89.3	90.4	90.4	92.5	93.6	100.2	103.0	110.6	121.0
82.5°	65.0	66.1	66.1	67.6	68.4	68.9	70.4	73.0	75.8	82.5	86.8
85°	32.9	34.0	32.9	34.0	35.6	36.1	37.8	38.3	40.6	42.1	46.0
87.5°	12.4	13.6	13.5	13.9	14.8	15.2	15.5	15.0	16.6	16.9	18.5
90°	13.5	13.4	13.2	13.0	12.8	12.4	11.7	11.2	10.5	9.9	9.1
92.5°	12.4	12.4	12.4	12.4	12.3	12.0	11.4	10.8	10.2	9.6	8.8
95°	13.1	13.0	12.9	12.8	12.7	12.4	11.7	11.2	10.5	9.9	9.8
97.5°	12.7	12.5	12.4	12.4	12.3	12.2	12.1	12.0	12.0	12.0	23.1
100°	12.7	12.5	12.4	12.4	12.3	13.1	14.7	16.5	18.1	19.9	33.7
102.5°	13.0	13.0	13.0	13.0	12.9	22.1	40.6	58.9	77.4	95.8	97.6
105°	128.8	132.4	136.0	139.7	143.2	144.6	143.7	142.8	141.9	141.0	140.5
107.5°	179.5	179.1	178.7	178.3	177.9	177.5	177.1	176.7	176.3	175.8	175.1
110°	201.5	201.2	200.9	200.7	200.3	200.1	199.9	199.7	199.5	199.3	198.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	223.6	223.2	222.8	222.4	222.0	221.9	222.0	222.0	222.0	222.0	221.8
115°	255.8	255.8	255.8	255.8	255.8	255.6	255.5	255.2	255.1	254.8	254.9
117.5°	288.5	288.5	288.6	288.6	288.7	288.7	288.8	288.8	288.8	288.8	288.6
120°	309.1	309.3	309.5	309.7	309.9	309.9	309.7	309.5	309.3	309.1	309.2
122.5°	329.3	329.5	329.7	329.9	330.1	330.2	330.0	329.9	329.8	329.7	329.5
125°	359.7	359.6	359.5	359.4	359.3	359.1	358.8	358.5	358.2	357.9	358.1
127.5°	386.3	386.4	386.5	386.6	386.7	386.7	386.8	386.9	386.9	387.0	386.5
130°	404.4	404.4	404.4	404.4	404.4	404.4	404.3	404.2	404.1	404.0	403.7
132.5°	421.0	421.1	421.2	421.3	421.4	421.4	421.3	421.2	421.0	421.0	420.6
135°	446.0	445.8	445.6	445.4	445.2	445.0	444.8	444.6	444.4	444.2	443.8
137.5°	467.3	467.4	467.5	467.5	467.5	467.5	467.3	467.1	466.8	466.6	466.2
140°	482.1	482.0	482.0	481.9	481.7	481.6	481.3	480.9	480.6	480.4	480.1
142.5°	494.5	494.4	494.4	494.4	494.4	494.2	494.0	493.8	493.6	493.4	493.2
145°	513.3	513.2	512.9	512.7	512.5	512.4	512.3	512.1	512.1	512.0	512.0
147.5°	528.9	528.9	528.8	528.7	528.5	528.5	528.4	528.3	528.2	528.1	528.2
150°	539.1	539.0	538.9	538.8	538.7	538.6	538.6	538.6	538.6	538.6	538.8
152.5°	547.8	547.8	547.9	548.0	548.0	548.0	547.8	547.6	547.5	547.3	547.5
155°	559.4	559.8	560.0	560.3	560.6	560.5	560.2	559.8	559.4	559.0	559.3
157.5°	569.2	569.7	570.2	570.8	571.2	571.2	570.8	570.2	569.7	569.2	569.5
160°	575.7	576.3	576.9	577.5	578.1	578.1	577.5	576.9	576.3	575.7	575.8
162.5°	580.7	581.5	582.1	582.8	583.5	583.5	582.9	582.3	581.7	581.1	581.2
165°	587.9	588.8	589.7	590.6	591.5	591.6	590.7	589.9	589.1	588.4	588.4
167.5°	593.3	594.2	595.2	596.3	597.2	597.3	596.4	595.6	594.7	593.7	593.8
170°	596.5	597.5	598.5	599.5	600.5	600.6	599.8	599.0	598.2	597.4	597.3
172.5°	598.3	599.4	600.5	601.6	602.6	602.8	602.0	601.2	600.4	599.5	599.4
175°	600.6	601.7	602.9	604.2	605.4	605.5	604.6	603.7	602.8	601.9	601.8
177.5°	602.0	602.9	604.0	604.9	605.9	606.0	605.4	604.8	604.1	603.4	603.2
180°	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1364.5	1358.4	1354.0	1350.5	1340.8	1335.1	1330.8	1324.6	1317.6	1310.2	1301.0
5°	1441.9	1423.3	1409.6	1388.9	1369.1	1352.7	1335.7	1320.3	1301.7	1281.5	1266.7
7.5°	1523.3	1495.6	1460.2	1429.3	1394.7	1364.6	1337.7	1310.0	1281.4	1253.5	1228.0
10°	1575.0	1539.4	1500.0	1453.4	1409.6	1370.7	1334.6	1299.6	1265.6	1231.6	1202.6
12.5°	1630.6	1586.3	1528.0	1473.6	1424.5	1372.5	1328.9	1285.9	1245.0	1209.3	1175.4
15°	1705.3	1641.2	1573.9	1501.1	1436.5	1375.7	1316.0	1261.8	1215.8	1168.6	1135.8
17.5°	1751.3	1672.0	1595.0	1518.9	1440.6	1364.0	1299.6	1237.0	1179.4	1132.7	1091.2
20°	1781.5	1702.6	1606.8	1530.7	1437.6	1358.7	1284.2	1214.7	1154.4	1104.6	1061.8
22.5°	1807.8	1716.7	1620.8	1520.6	1427.9	1344.3	1262.7	1192.8	1131.2	1078.7	1037.8
25°	1822.0	1717.4	1613.4	1513.7	1408.5	1309.4	1235.5	1153.3	1087.6	1032.3	988.5
27.5°	1823.5	1711.7	1593.9	1483.2	1374.7	1282.4	1189.1	1115.6	1047.4	989.0	946.9
30°	1818.7	1702.1	1575.6	1455.6	1346.6	1246.4	1165.4	1085.4	1015.9	957.8	914.0
32.5°	1803.4	1681.9	1551.9	1425.0	1312.0	1214.0	1130.4	1054.3	986.5	929.3	883.4
35°	1759.0	1639.1	1500.6	1368.6	1253.0	1153.9	1078.3	1001.1	933.2	878.9	834.6
37.5°	1689.7	1581.3	1440.4	1303.9	1190.3	1090.8	1015.9	946.1	884.9	829.8	784.3
40°	1629.2	1533.9	1392.7	1259.6	1136.9	1042.2	972.1	908.0	847.2	795.2	751.9
42.5°	1559.6	1476.5	1346.2	1205.2	1087.0	991.8	923.4	865.9	808.7	760.6	717.3
45°	1435.4	1380.6	1257.9	1127.6	1004.4	914.6	849.4	799.0	750.8	703.7	667.6
47.5°	1292.5	1265.4	1162.1	1038.3	921.4	832.8	776.3	729.8	687.5	647.6	615.8
50°	1196.6	1183.4	1094.2	974.8	863.1	779.8	722.9	682.9	646.7	611.7	581.6
52.5°	1101.9	1101.5	1021.0	911.7	808.3	728.2	671.6	634.3	602.9	574.5	547.4
55°	957.3	972.6	909.7	812.1	719.6	647.3	596.4	563.0	541.1	517.5	497.3
57.5°	824.4	849.9	797.9	712.0	634.9	568.2	523.9	498.8	475.5	461.2	446.5
60°	737.7	761.8	721.3	649.0	576.2	519.2	477.0	454.6	434.3	424.5	414.0
62.5°	660.6	682.1	652.0	585.0	521.8	467.0	431.4	409.9	396.2	385.4	378.5
65°	550.4	568.5	542.7	494.0	439.7	395.9	366.9	349.9	336.8	332.4	324.7
67.5°	444.9	461.4	447.4	406.0	362.5	329.4	306.7	290.3	282.6	278.8	273.3
70°	382.2	398.7	383.9	347.8	314.3	286.5	265.1	255.7	247.6	245.9	238.2
72.5°	329.2	340.4	325.7	297.4	268.8	245.3	228.7	219.0	214.7	211.8	207.6
75°	247.0	256.8	247.0	225.1	204.8	188.4	174.1	170.3	165.4	163.7	161.0
77.5°	174.8	183.3	175.8	162.1	146.9	134.3	126.6	121.7	120.6	117.7	119.1
80°	133.6	139.1	132.0	122.7	110.6	101.9	96.4	93.6	90.4	89.3	91.4
82.5°	95.9	98.4	94.7	88.5	79.5	73.8	70.1	66.9	66.2	66.5	66.5
85°	49.8	49.3	48.7	43.3	40.6	36.7	34.5	34.0	33.4	34.5	35.6
87.5°	18.3	18.6	18.0	16.1	14.5	13.0	12.4	11.6	12.4	13.0	13.6
90°	8.3	7.5	6.7	5.8	4.7	3.6	2.5	1.3	2.5	3.6	4.7
92.5°	8.0	7.2	6.3	5.9	5.9	5.8	5.8	5.7	5.8	5.8	5.9
95°	9.7	9.7	9.5	11.2	14.6	18.1	21.5	24.9	21.5	18.1	14.6
97.5°	34.4	45.6	56.7	61.3	59.2	57.0	54.9	52.8	54.9	57.0	59.2
100°	47.6	61.5	75.3	81.4	79.5	77.7	75.9	74.1	75.9	77.7	79.5
102.5°	99.4	101.2	103.1	103.3	102.0	100.6	99.3	98.0	99.3	100.6	102.0
105°	140.0	139.5	138.9	138.4	137.8	137.2	136.7	136.0	136.7	137.2	137.8
107.5°	174.4	173.7	173.0	172.5	172.2	172.0	171.7	171.3	171.7	172.0	172.2
110°	198.0	197.5	196.9	196.4	196.1	195.8	195.5	195.2	195.5	195.8	196.1



TEST NUMBER: P332634-927

CATALOG NUMBER: SA4XXDIP-C1020D590U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	221.5	221.2	220.9	220.5	220.0	219.4	218.9	218.3	218.9	219.4	220.0
115°	255.1	255.2	255.2	255.2	254.8	254.5	254.3	254.0	254.3	254.5	254.8
117.5°	288.4	288.2	288.0	287.6	287.2	286.8	286.5	286.1	286.5	286.8	287.2
120°	309.3	309.4	309.5	309.3	309.0	308.6	308.2	307.8	308.2	308.6	309.0
122.5°	329.4	329.3	329.2	328.9	328.7	328.4	328.2	328.0	328.2	328.4	328.7
125°	358.3	358.5	358.7	358.6	358.2	357.8	357.4	357.0	357.4	357.8	358.2
127.5°	386.0	385.6	385.2	384.8	384.8	384.7	384.5	384.4	384.5	384.7	384.8
130°	403.4	403.1	402.7	402.6	402.5	402.3	402.3	402.2	402.3	402.3	402.5
132.5°	420.2	419.9	419.5	419.1	419.0	418.8	418.6	418.4	418.6	418.8	419.0
135°	443.4	443.0	442.6	442.4	442.5	442.7	442.8	442.8	442.8	442.7	442.5
137.5°	465.7	465.2	464.9	464.6	464.5	464.5	464.5	464.5	464.5	464.5	464.5
140°	480.0	479.7	479.5	479.3	479.1	479.0	478.7	478.6	478.7	479.0	479.1
142.5°	493.1	493.0	492.9	492.7	492.3	491.9	491.5	491.2	491.5	491.9	492.3
145°	512.0	512.0	512.0	511.8	511.5	511.2	511.0	510.6	511.0	511.2	511.5
147.5°	528.4	528.5	528.5	528.3	527.8	527.2	526.6	526.1	526.6	527.2	527.8
150°	538.8	538.9	539.1	538.9	538.5	538.1	537.7	537.3	537.7	538.1	538.5
152.5°	547.7	547.9	548.0	548.0	547.6	547.3	547.0	546.7	547.0	547.3	547.6
155°	559.6	559.9	560.2	560.3	560.2	560.1	560.0	559.9	560.0	560.1	560.2
157.5°	569.9	570.2	570.5	570.8	570.8	570.8	570.9	571.0	570.9	570.8	570.8
160°	575.9	576.0	576.1	576.3	576.6	576.9	577.2	577.5	577.2	576.9	576.6
162.5°	581.3	581.4	581.5	581.8	582.2	582.5	582.9	583.3	582.9	582.5	582.2
165°	588.4	588.4	588.4	588.6	589.1	589.6	590.1	590.6	590.1	589.6	589.1
167.5°	593.9	594.0	594.0	594.3	594.8	595.3	595.9	596.4	595.9	595.3	594.8
170°	597.1	597.1	597.0	597.2	597.9	598.4	599.0	599.7	599.0	598.4	597.9
172.5°	599.4	599.3	599.1	599.4	600.0	600.6	601.2	601.8	601.2	600.6	600.0
175°	601.7	601.6	601.5	601.7	602.4	602.9	603.6	604.2	603.6	602.9	602.4
177.5°	603.1	602.9	602.8	603.0	603.6	604.1	604.7	605.2	604.7	604.1	603.6
180°	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2



TEST NUMBER: P332634-927

CATALOG NUMBER: SA4XXDIP-C1020D590U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1296.6	1292.7	1287.0	1279.1	1272.5	1265.5	1263.8	1261.1	1266.4	1261.9	1260.7
5°	1254.1	1242.6	1227.8	1210.9	1200.9	1186.8	1184.0	1178.5	1173.1	1172.5	1167.0
7.5°	1209.1	1192.2	1172.8	1155.6	1139.6	1123.9	1113.8	1111.6	1103.5	1098.8	1093.3
10°	1180.2	1159.4	1136.9	1120.5	1101.8	1085.4	1074.0	1067.4	1061.8	1055.8	1050.4
12.5°	1146.0	1123.9	1105.3	1087.6	1065.5	1053.0	1034.0	1022.6	1021.6	1021.7	1007.4
15°	1106.2	1084.3	1055.8	1030.6	1018.6	994.5	984.1	971.0	962.7	954.5	948.0
17.5°	1060.8	1033.5	1011.3	982.4	959.3	940.2	926.5	918.6	906.3	894.6	886.2
20°	1032.3	1003.3	979.7	949.0	923.8	900.3	888.8	877.9	868.5	858.7	849.4
22.5°	1003.4	973.0	944.2	914.4	891.0	866.2	855.1	840.2	831.3	825.9	816.5
25°	957.8	925.0	892.1	863.6	839.6	817.6	802.9	791.3	781.5	777.1	771.1
27.5°	908.3	875.7	843.9	811.6	784.3	768.3	756.5	747.8	742.2	736.3	733.6
30°	876.8	842.8	808.9	778.7	753.5	737.7	726.7	720.7	716.3	713.6	710.8
32.5°	844.8	811.3	775.5	748.1	725.5	711.4	703.1	697.0	694.8	693.9	692.8
35°	793.5	759.5	726.7	702.1	680.7	675.3	668.1	664.8	663.8	667.6	669.2
37.5°	743.9	712.4	682.1	658.2	644.3	636.3	633.8	634.0	637.9	641.3	645.2
40°	711.9	681.3	652.8	632.0	618.9	613.9	612.8	615.5	620.0	623.8	628.1
42.5°	680.8	650.6	624.7	605.2	596.0	591.5	592.2	594.9	601.1	605.8	612.4
45°	632.6	607.4	582.2	566.3	558.6	559.7	559.7	564.6	570.6	577.7	584.9
47.5°	587.1	561.7	541.0	527.6	523.6	522.7	525.8	532.2	540.8	549.6	559.6
50°	556.4	532.3	514.2	502.2	497.8	499.5	503.8	509.8	520.2	531.2	541.6
52.5°	525.3	503.4	486.6	475.5	472.4	475.4	479.7	489.3	498.4	510.2	522.8
55°	477.0	458.4	445.2	437.0	435.9	437.6	442.5	452.9	466.0	480.9	492.9
57.5°	428.9	413.4	401.3	395.6	396.2	397.7	405.8	418.2	432.2	448.0	463.5
60°	396.5	382.2	372.4	368.0	368.5	371.9	381.7	393.2	410.7	426.0	442.5
62.5°	365.8	353.3	343.9	340.0	339.2	346.4	355.8	367.8	385.3	402.4	420.2
65°	316.6	306.7	299.0	296.8	298.5	304.0	316.0	331.8	346.7	364.7	383.3
67.5°	268.3	260.2	255.0	256.0	257.9	266.0	276.2	289.8	306.6	325.3	343.7
70°	237.7	230.0	225.6	226.2	229.5	239.3	248.1	261.7	279.9	299.0	314.3
72.5°	206.1	201.1	197.2	199.5	202.7	209.5	220.5	234.2	250.1	267.9	284.1
75°	158.3	158.3	156.1	157.7	162.6	169.2	177.4	191.7	207.6	221.8	235.0
77.5°	117.4	116.2	117.6	119.6	122.5	130.2	139.7	149.8	161.8	176.0	186.9
80°	89.8	90.4	93.1	96.4	97.5	103.5	113.4	122.7	132.0	144.0	154.4
82.5°	67.5	68.0	69.5	73.6	74.7	81.2	87.5	96.8	105.3	113.4	122.0
85°	36.7	36.7	39.5	41.0	43.8	48.2	52.0	57.5	65.2	70.7	78.8
87.5°	15.2	15.4	17.3	18.3	19.8	22.1	23.1	28.0	29.9	32.2	36.3
90°	5.8	6.7	7.5	8.3	9.1	9.9	10.5	11.2	11.7	12.4	12.8
92.5°	5.9	6.3	7.2	8.0	8.8	9.6	10.2	10.8	11.4	12.0	12.3
95°	11.2	9.5	9.7	9.7	9.8	9.9	10.5	11.2	11.7	12.4	12.7
97.5°	61.3	56.7	45.6	34.4	23.1	12.0	12.0	12.0	12.1	12.2	12.3
100°	81.4	75.3	61.5	47.6	33.7	19.9	18.1	16.5	14.7	13.1	12.3
102.5°	103.3	103.1	101.2	99.4	97.6	95.8	77.4	58.9	40.6	22.1	12.9
105°	138.4	138.9	139.5	140.0	140.5	141.0	141.9	142.8	143.7	144.6	143.2
107.5°	172.5	173.0	173.7	174.4	175.1	175.8	176.3	176.7	177.1	177.5	177.9
110°	196.4	196.9	197.5	198.0	198.7	199.3	199.5	199.7	199.9	200.1	200.3



TEST NUMBER: P332634-927

CATALOG NUMBER: SA4XXDIP-C1020D590U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	220.5	220.9	221.2	221.5	221.8	222.0	222.0	222.0	222.0	221.9	222.0
115°	255.2	255.2	255.2	255.1	254.9	254.8	255.1	255.2	255.5	255.6	255.8
117.5°	287.6	288.0	288.2	288.4	288.6	288.8	288.8	288.8	288.8	288.7	288.7
120°	309.3	309.5	309.4	309.3	309.2	309.1	309.3	309.5	309.7	309.9	309.9
122.5°	328.9	329.2	329.3	329.4	329.5	329.7	329.8	329.9	330.0	330.2	330.1
125°	358.6	358.7	358.5	358.3	358.1	357.9	358.2	358.5	358.8	359.1	359.3
127.5°	384.8	385.2	385.6	386.0	386.5	387.0	386.9	386.9	386.8	386.7	386.7
130°	402.6	402.7	403.1	403.4	403.7	404.0	404.1	404.2	404.3	404.4	404.4
132.5°	419.1	419.5	419.9	420.2	420.6	421.0	421.0	421.2	421.3	421.4	421.4
135°	442.4	442.6	443.0	443.4	443.8	444.2	444.4	444.6	444.8	445.0	445.2
137.5°	464.6	464.9	465.2	465.7	466.2	466.6	466.8	467.1	467.3	467.5	467.5
140°	479.3	479.5	479.7	480.0	480.1	480.4	480.6	480.9	481.3	481.6	481.7
142.5°	492.7	492.9	493.0	493.1	493.2	493.4	493.6	493.8	494.0	494.2	494.4
145°	511.8	512.0	512.0	512.0	512.0	512.0	512.1	512.1	512.3	512.4	512.5
147.5°	528.3	528.5	528.5	528.4	528.2	528.1	528.2	528.3	528.4	528.5	528.5
150°	538.9	539.1	538.9	538.8	538.8	538.6	538.6	538.6	538.6	538.6	538.7
152.5°	548.0	548.0	547.9	547.7	547.5	547.3	547.5	547.6	547.8	548.0	548.0
155°	560.3	560.2	559.9	559.6	559.3	559.0	559.4	559.8	560.2	560.5	560.6
157.5°	570.8	570.5	570.2	569.9	569.5	569.2	569.7	570.2	570.8	571.2	571.2
160°	576.3	576.1	576.0	575.9	575.8	575.7	576.3	576.9	577.5	578.1	578.1
162.5°	581.8	581.5	581.4	581.3	581.2	581.1	581.7	582.3	582.9	583.5	583.5
165°	588.6	588.4	588.4	588.4	588.4	588.4	589.1	589.9	590.7	591.6	591.5
167.5°	594.3	594.0	594.0	593.9	593.8	593.7	594.7	595.6	596.4	597.3	597.2
170°	597.2	597.0	597.1	597.1	597.3	597.4	598.2	599.0	599.8	600.6	600.5
172.5°	599.4	599.1	599.3	599.4	599.4	599.5	600.4	601.2	602.0	602.8	602.6
175°	601.7	601.5	601.6	601.7	601.8	601.9	602.8	603.7	604.6	605.5	605.4
177.5°	603.0	602.8	602.9	603.1	603.2	603.4	604.1	604.8	605.4	606.0	605.9
180°	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2



TEST NUMBER: P332634-927

CATALOG NUMBER: SA4XXDIP-C1020D590U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1259.8	1258.9	1255.8	1255.5	1255.8	1258.9	1259.8	1260.7	1261.9	1266.4	1261.1
5°	1163.7	1161.0	1159.4	1165.4	1159.4	1161.0	1163.7	1167.0	1172.5	1173.1	1178.5
7.5°	1091.3	1089.2	1084.3	1082.8	1084.3	1089.2	1091.3	1093.3	1098.8	1103.5	1111.6
10°	1044.9	1042.7	1038.3	1037.2	1038.3	1042.7	1044.9	1050.4	1055.8	1061.8	1067.4
12.5°	1000.2	995.9	995.0	996.0	995.0	995.9	1000.2	1007.4	1021.7	1021.6	1022.6
15°	940.9	938.7	932.6	934.3	932.6	938.7	940.9	948.0	954.5	962.7	971.0
17.5°	882.3	879.7	872.4	878.8	872.4	879.7	882.3	886.2	894.6	906.3	918.6
20°	845.6	841.1	837.3	836.8	837.3	841.1	845.6	849.4	858.7	868.5	877.9
22.5°	810.5	806.6	806.2	802.6	806.2	806.6	810.5	816.5	825.9	831.3	840.2
25°	766.7	762.9	761.8	759.1	761.8	762.9	766.7	771.1	777.1	781.5	791.3
27.5°	733.1	731.2	729.2	730.1	729.2	731.2	733.1	733.6	736.3	742.2	747.8
30°	712.5	711.9	710.8	710.8	710.8	711.9	712.5	710.8	713.6	716.3	720.7
32.5°	695.4	695.3	695.9	695.9	695.9	695.3	695.4	692.8	693.9	694.8	697.0
35°	671.4	673.0	674.1	672.5	674.1	673.0	671.4	669.2	667.6	663.8	664.8
37.5°	649.7	651.3	652.9	654.7	652.9	651.3	649.7	645.2	641.3	637.9	634.0
40°	633.0	636.9	638.0	640.7	638.0	636.9	633.0	628.1	623.8	620.0	615.5
42.5°	617.3	621.5	624.4	625.0	624.4	621.5	617.3	612.4	605.8	601.1	594.9
45°	593.1	597.5	601.3	601.3	601.3	597.5	593.1	584.9	577.7	570.6	564.6
47.5°	568.0	574.3	578.2	579.2	578.2	574.3	568.0	559.6	549.6	540.8	532.2
50°	551.0	558.6	562.4	565.1	562.4	558.6	551.0	541.6	531.2	520.2	509.8
52.5°	534.2	541.9	547.1	548.5	547.1	541.9	534.2	522.8	510.2	498.4	489.3
55°	505.5	516.4	522.4	524.7	522.4	516.4	505.5	492.9	480.9	466.0	452.9
57.5°	478.3	488.4	495.4	497.0	495.4	488.4	478.3	463.5	448.0	432.2	418.2
60°	457.2	468.3	477.0	478.6	477.0	468.3	457.2	442.5	426.0	410.7	393.2
62.5°	435.8	447.2	455.1	459.4	455.1	447.2	435.8	420.2	402.4	385.3	367.8
65°	398.7	410.2	417.9	419.5	417.9	410.2	398.7	383.3	364.7	346.7	331.8
67.5°	358.1	369.6	374.7	377.9	374.7	369.6	358.1	343.7	325.3	306.6	289.8
70°	329.7	339.0	344.4	347.2	344.4	339.0	329.7	314.3	299.0	279.9	261.7
72.5°	297.2	307.0	313.4	313.9	313.4	307.0	297.2	284.1	267.9	250.1	234.2
75°	247.6	256.3	259.6	259.6	259.6	256.3	247.6	235.0	221.8	207.6	191.7
77.5°	195.9	200.4	204.6	205.5	204.6	200.4	195.9	186.9	176.0	161.8	149.8
80°	162.6	165.4	168.7	168.7	168.7	165.4	162.6	154.4	144.0	132.0	122.7
82.5°	128.5	130.8	134.0	133.6	134.0	130.8	128.5	122.0	113.4	105.3	96.8
85°	77.8	82.7	82.1	81.0	82.1	82.7	77.8	78.8	70.7	65.2	57.5
87.5°	37.6	38.1	39.5	40.4	39.5	38.1	37.6	36.3	32.2	29.9	28.0
90°	13.0	13.2	13.4	13.5	13.4	13.2	13.0	12.8	12.4	11.7	11.2
92.5°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.3	12.0	11.4	10.8
95°	12.8	12.9	13.0	13.1	13.0	12.9	12.8	12.7	12.4	11.7	11.2
97.5°	12.4	12.4	12.5	12.7	12.5	12.4	12.4	12.3	12.2	12.1	12.0
100°	12.4	12.4	12.5	12.7	12.5	12.4	12.4	12.3	13.1	14.7	16.5
102.5°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	12.9	22.1	40.6	58.9
105°	139.7	136.0	132.4	128.8	132.4	136.0	139.7	143.2	144.6	143.7	142.8
107.5°	178.3	178.7	179.1	179.5	179.1	178.7	178.3	177.9	177.5	177.1	176.7
110°	200.7	200.9	201.2	201.5	201.2	200.9	200.7	200.3	200.1	199.9	199.7



TEST NUMBER: P332634-927

CATALOG NUMBER: SA4XXDIP-C1020D590U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	222.4	222.8	223.2	223.6	223.2	222.8	222.4	222.0	221.9	222.0	222.0
115°	255.8	255.8	255.8	255.8	255.8	255.8	255.8	255.8	255.6	255.5	255.2
117.5°	288.6	288.6	288.5	288.5	288.5	288.6	288.6	288.7	288.7	288.8	288.8
120°	309.7	309.5	309.3	309.1	309.3	309.5	309.7	309.9	309.9	309.7	309.5
122.5°	329.9	329.7	329.5	329.3	329.5	329.7	329.9	330.1	330.2	330.0	329.9
125°	359.4	359.5	359.6	359.7	359.6	359.5	359.4	359.3	359.1	358.8	358.5
127.5°	386.6	386.5	386.4	386.3	386.4	386.5	386.6	386.7	386.7	386.8	386.9
130°	404.4	404.4	404.4	404.4	404.4	404.4	404.4	404.4	404.4	404.3	404.2
132.5°	421.3	421.2	421.1	421.0	421.1	421.2	421.3	421.4	421.4	421.3	421.2
135°	445.4	445.6	445.8	446.0	445.8	445.6	445.4	445.2	445.0	444.8	444.6
137.5°	467.5	467.5	467.4	467.3	467.4	467.5	467.5	467.5	467.5	467.3	467.1
140°	481.9	482.0	482.0	482.1	482.0	482.0	481.9	481.7	481.6	481.3	480.9
142.5°	494.4	494.4	494.4	494.5	494.4	494.4	494.4	494.4	494.2	494.0	493.8
145°	512.7	512.9	513.2	513.3	513.2	512.9	512.7	512.5	512.4	512.3	512.1
147.5°	528.7	528.8	528.9	528.9	528.9	528.8	528.7	528.5	528.5	528.4	528.3
150°	538.8	538.9	539.0	539.1	539.0	538.9	538.8	538.7	538.6	538.6	538.6
152.5°	548.0	547.9	547.8	547.8	547.8	547.9	548.0	548.0	548.0	547.8	547.6
155°	560.3	560.0	559.8	559.4	559.8	560.0	560.3	560.6	560.5	560.2	559.8
157.5°	570.8	570.2	569.7	569.2	569.7	570.2	570.8	571.2	571.2	570.8	570.2
160°	577.5	576.9	576.3	575.7	576.3	576.9	577.5	578.1	578.1	577.5	576.9
162.5°	582.8	582.1	581.5	580.7	581.5	582.1	582.8	583.5	583.5	582.9	582.3
165°	590.6	589.7	588.8	587.9	588.8	589.7	590.6	591.5	591.6	590.7	589.9
167.5°	596.3	595.2	594.2	593.3	594.2	595.2	596.3	597.2	597.3	596.4	595.6
170°	599.5	598.5	597.5	596.5	597.5	598.5	599.5	600.5	600.6	599.8	599.0
172.5°	601.6	600.5	599.4	598.3	599.4	600.5	601.6	602.6	602.8	602.0	601.2
175°	604.2	602.9	601.7	600.6	601.7	602.9	604.2	605.4	605.5	604.6	603.7
177.5°	604.9	604.0	602.9	602.0	602.9	604.0	604.9	605.9	606.0	605.4	604.8
180°	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2



TEST NUMBER: P332634-927

CATALOG NUMBER: SA4XXDIP-C1020D590U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1263.8	1265.5	1272.5	1279.1	1287.0	1292.7	1296.6	1301.0	1310.2	1317.6	1324.6
5°	1184.0	1186.8	1200.9	1210.9	1227.8	1242.6	1254.1	1266.7	1281.5	1301.7	1320.3
7.5°	1113.8	1123.9	1139.6	1155.6	1172.8	1192.2	1209.1	1228.0	1253.5	1281.4	1310.0
10°	1074.0	1085.4	1101.8	1120.5	1136.9	1159.4	1180.2	1202.6	1231.6	1265.6	1299.6
12.5°	1034.0	1053.0	1065.5	1087.6	1105.3	1123.9	1146.0	1175.4	1209.3	1245.0	1285.9
15°	984.1	994.5	1018.6	1030.6	1055.8	1084.3	1106.2	1135.8	1168.6	1215.8	1261.8
17.5°	926.5	940.2	959.3	982.4	1011.3	1033.5	1060.8	1091.2	1132.7	1179.4	1237.0
20°	888.8	900.3	923.8	949.0	979.7	1003.3	1032.3	1061.8	1104.6	1154.4	1214.7
22.5°	855.1	866.2	891.0	914.4	944.2	973.0	1003.4	1037.8	1078.7	1131.2	1192.8
25°	802.9	817.6	839.6	863.6	892.1	925.0	957.8	988.5	1032.3	1087.6	1153.3
27.5°	756.5	768.3	784.3	811.6	843.9	875.7	908.3	946.9	989.0	1047.4	1115.6
30°	726.7	737.7	753.5	778.7	808.9	842.8	876.8	914.0	957.8	1015.9	1085.4
32.5°	703.1	711.4	725.5	748.1	775.5	811.3	844.8	883.4	929.3	986.5	1054.3
35°	668.1	675.3	680.7	702.1	726.7	759.5	793.5	834.6	878.9	933.2	1001.1
37.5°	633.8	636.3	644.3	658.2	682.1	712.4	743.9	784.3	829.8	884.9	946.1
40°	612.8	613.9	618.9	632.0	652.8	681.3	711.9	751.9	795.2	847.2	908.0
42.5°	592.2	591.5	596.0	605.2	624.7	650.6	680.8	717.3	760.6	808.7	865.9
45°	559.7	559.7	558.6	566.3	582.2	607.4	632.6	667.6	703.7	750.8	799.0
47.5°	525.8	522.7	523.6	527.6	541.0	561.7	587.1	615.8	647.6	687.5	729.8
50°	503.8	499.5	497.8	502.2	514.2	532.3	556.4	581.6	611.7	646.7	682.9
52.5°	479.7	475.4	472.4	475.5	486.6	503.4	525.3	547.4	574.5	602.9	634.3
55°	442.5	437.6	435.9	437.0	445.2	458.4	477.0	497.3	517.5	541.1	563.0
57.5°	405.8	397.7	396.2	395.6	401.3	413.4	428.9	446.5	461.2	475.5	498.8
60°	381.7	371.9	368.5	368.0	372.4	382.2	396.5	414.0	424.5	434.3	454.6
62.5°	355.8	346.4	339.2	340.0	343.9	353.3	365.8	378.5	385.4	396.2	409.9
65°	316.0	304.0	298.5	296.8	299.0	306.7	316.6	324.7	332.4	336.8	349.9
67.5°	276.2	266.0	257.9	256.0	255.0	260.2	268.3	273.3	278.8	282.6	290.3
70°	248.1	239.3	229.5	226.2	225.6	230.0	237.7	238.2	245.9	247.6	255.7
72.5°	220.5	209.5	202.7	199.5	197.2	201.1	206.1	207.6	211.8	214.7	219.0
75°	177.4	169.2	162.6	157.7	156.1	158.3	158.3	161.0	163.7	165.4	170.3
77.5°	139.7	130.2	122.5	119.6	117.6	116.2	117.4	119.1	117.7	120.6	121.7
80°	113.4	103.5	97.5	96.4	93.1	90.4	89.8	91.4	89.3	90.4	93.6
82.5°	87.5	81.2	74.7	73.6	69.5	68.0	67.5	66.5	66.5	66.2	66.9
85°	52.0	48.2	43.8	41.0	39.5	36.7	36.7	35.6	34.5	33.4	34.0
87.5°	23.1	22.1	19.8	18.3	17.3	15.4	15.2	13.6	13.0	12.4	11.6
90°	10.5	9.9	9.1	8.3	7.5	6.7	5.8	4.7	3.6	2.5	1.3
92.5°	10.2	9.6	8.8	8.0	7.2	6.3	5.9	5.9	5.8	5.8	5.7
95°	10.5	9.9	9.8	9.7	9.7	9.5	11.2	14.6	18.1	21.5	24.9
97.5°	12.0	12.0	23.1	34.4	45.6	56.7	61.3	59.2	57.0	54.9	52.8
100°	18.1	19.9	33.7	47.6	61.5	75.3	81.4	79.5	77.7	75.9	74.1
102.5°	77.4	95.8	97.6	99.4	101.2	103.1	103.3	102.0	100.6	99.3	98.0
105°	141.9	141.0	140.5	140.0	139.5	138.9	138.4	137.8	137.2	136.7	136.0
107.5°	176.3	175.8	175.1	174.4	173.7	173.0	172.5	172.2	172.0	171.7	171.3
110°	199.5	199.3	198.7	198.0	197.5	196.9	196.4	196.1	195.8	195.5	195.2



TEST NUMBER: P332634-927

CATALOG NUMBER: SA4XXDIP-C1020D590U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	222.0	222.0	221.8	221.5	221.2	220.9	220.5	220.0	219.4	218.9	218.3
115°	255.1	254.8	254.9	255.1	255.2	255.2	255.2	254.8	254.5	254.3	254.0
117.5°	288.8	288.8	288.6	288.4	288.2	288.0	287.6	287.2	286.8	286.5	286.1
120°	309.3	309.1	309.2	309.3	309.4	309.5	309.3	309.0	308.6	308.2	307.8
122.5°	329.8	329.7	329.5	329.4	329.3	329.2	328.9	328.7	328.4	328.2	328.0
125°	358.2	357.9	358.1	358.3	358.5	358.7	358.6	358.2	357.8	357.4	357.0
127.5°	386.9	387.0	386.5	386.0	385.6	385.2	384.8	384.8	384.7	384.5	384.4
130°	404.1	404.0	403.7	403.4	403.1	402.7	402.6	402.5	402.3	402.3	402.2
132.5°	421.0	421.0	420.6	420.2	419.9	419.5	419.1	419.0	418.8	418.6	418.4
135°	444.4	444.2	443.8	443.4	443.0	442.6	442.4	442.5	442.7	442.8	442.8
137.5°	466.8	466.6	466.2	465.7	465.2	464.9	464.6	464.5	464.5	464.5	464.5
140°	480.6	480.4	480.1	480.0	479.7	479.5	479.3	479.1	479.0	478.7	478.6
142.5°	493.6	493.4	493.2	493.1	493.0	492.9	492.7	492.3	491.9	491.5	491.2
145°	512.1	512.0	512.0	512.0	512.0	512.0	511.8	511.5	511.2	511.0	510.6
147.5°	528.2	528.1	528.2	528.4	528.5	528.5	528.3	527.8	527.2	526.6	526.1
150°	538.6	538.6	538.8	538.8	538.9	539.1	538.9	538.5	538.1	537.7	537.3
152.5°	547.5	547.3	547.5	547.7	547.9	548.0	548.0	547.6	547.3	547.0	546.7
155°	559.4	559.0	559.3	559.6	559.9	560.2	560.3	560.2	560.1	560.0	559.9
157.5°	569.7	569.2	569.5	569.9	570.2	570.5	570.8	570.8	570.8	570.9	571.0
160°	576.3	575.7	575.8	575.9	576.0	576.1	576.3	576.6	576.9	577.2	577.5
162.5°	581.7	581.1	581.2	581.3	581.4	581.5	581.8	582.2	582.5	582.9	583.3
165°	589.1	588.4	588.4	588.4	588.4	588.4	588.6	589.1	589.6	590.1	590.6
167.5°	594.7	593.7	593.8	593.9	594.0	594.0	594.3	594.8	595.3	595.9	596.4
170°	598.2	597.4	597.3	597.1	597.1	597.0	597.2	597.9	598.4	599.0	599.7
172.5°	600.4	599.5	599.4	599.4	599.3	599.1	599.4	600.0	600.6	601.2	601.8
175°	602.8	601.9	601.8	601.7	601.6	601.5	601.7	602.4	602.9	603.6	604.2
177.5°	604.1	603.4	603.2	603.1	602.9	602.8	603.0	603.6	604.1	604.7	605.2
180°	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2



TEST NUMBER: P332634-927

CATALOG NUMBER: SA4XXDIP-C1020D590U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1330.8	1335.1	1340.8	1350.5	1354.0	1358.4	1364.5	1364.1	1365.8	1372.4	1386.4
5°	1335.7	1352.7	1369.1	1388.9	1409.6	1423.3	1441.9	1453.4	1464.9	1479.7	1504.9
7.5°	1337.7	1364.6	1394.7	1429.3	1460.2	1495.6	1523.3	1549.4	1573.0	1604.2	1634.2
10°	1334.6	1370.7	1409.6	1453.4	1500.0	1539.4	1575.0	1615.6	1650.0	1687.8	1721.8
12.5°	1328.9	1372.5	1424.5	1473.6	1528.0	1586.3	1630.6	1671.6	1717.5	1761.0	1813.4
15°	1316.0	1375.7	1436.5	1501.1	1573.9	1641.2	1705.3	1758.5	1807.8	1873.0	1941.4
17.5°	1299.6	1364.0	1440.6	1518.9	1595.0	1672.0	1751.3	1831.1	1893.3	1974.3	2027.8
20°	1284.2	1358.7	1437.6	1530.7	1606.8	1702.6	1781.5	1858.7	1944.1	2024.7	2088.7
22.5°	1262.7	1344.3	1427.9	1520.6	1620.8	1716.7	1807.8	1891.6	1977.0	2064.5	2142.1
25°	1235.5	1309.4	1408.5	1513.7	1613.4	1717.4	1822.0	1927.1	2019.1	2111.7	2184.0
27.5°	1189.1	1282.4	1374.7	1483.2	1593.9	1711.7	1823.5	1933.6	2030.0	2106.1	2150.9
30°	1165.4	1246.4	1346.6	1455.6	1575.6	1702.1	1818.7	1926.6	2016.4	2077.2	2095.2
32.5°	1130.4	1214.0	1312.0	1425.0	1551.9	1681.9	1803.4	1905.1	1980.1	2011.9	1990.1
35°	1078.3	1153.9	1253.0	1368.6	1500.6	1639.1	1759.0	1845.0	1883.3	1853.2	1778.2
37.5°	1015.9	1090.8	1190.3	1303.9	1440.4	1581.3	1689.7	1751.6	1738.8	1664.0	1552.1
40°	972.1	1042.2	1136.9	1259.6	1392.7	1533.9	1629.2	1662.6	1627.6	1520.3	1401.4
42.5°	923.4	991.8	1087.0	1205.2	1346.2	1476.5	1559.6	1562.3	1503.6	1375.2	1255.9
45°	849.4	914.6	1004.4	1127.6	1257.9	1380.6	1435.4	1408.5	1300.1	1176.3	1056.4
47.5°	776.3	832.8	921.4	1038.3	1162.1	1265.4	1292.5	1244.2	1128.7	1008.5	897.4
50°	722.9	779.8	863.1	974.8	1094.2	1183.4	1196.6	1132.5	1019.1	898.1	811.0
52.5°	671.6	728.2	808.3	911.7	1021.0	1101.5	1101.9	1027.8	914.9	807.0	726.0
55°	596.4	647.3	719.6	812.1	909.7	972.6	957.3	880.6	782.6	689.0	618.3
57.5°	523.9	568.2	634.9	712.0	797.9	849.9	824.4	750.6	663.1	583.7	530.1
60°	477.0	519.2	576.2	649.0	721.3	761.8	737.7	670.8	590.3	526.2	479.7
62.5°	431.4	467.0	521.8	585.0	652.0	682.1	660.6	594.6	525.1	467.1	429.4
65°	366.9	395.9	439.7	494.0	542.7	568.5	550.4	489.0	435.9	394.3	364.2
67.5°	306.7	329.4	362.5	406.0	447.4	461.4	444.9	402.2	357.2	323.8	302.6
70°	265.1	286.5	314.3	347.8	383.9	398.7	382.2	348.3	311.6	280.9	260.2
72.5°	228.7	245.3	268.8	297.4	325.7	340.4	329.2	296.6	265.6	242.8	225.1
75°	174.1	188.4	204.8	225.1	247.0	256.8	247.0	224.5	203.2	186.2	173.6
77.5°	126.6	134.3	146.9	162.1	175.8	183.3	174.8	159.5	146.6	134.9	128.7
80°	96.4	101.9	110.6	122.7	132.0	139.1	133.6	121.0	110.6	103.0	100.2
82.5°	70.1	73.8	79.5	88.5	94.7	98.4	95.9	86.8	82.5	75.8	73.0
85°	34.5	36.7	40.6	43.3	48.7	49.3	49.8	46.0	42.1	40.6	38.3
87.5°	12.4	13.0	14.5	16.1	18.0	18.6	18.3	18.5	16.9	16.6	15.0
90°	2.5	3.6	4.7	5.8	6.7	7.5	8.3	9.1	9.9	10.5	11.2
92.5°	5.8	5.8	5.9	5.9	6.3	7.2	8.0	8.8	9.6	10.2	10.8
95°	21.5	18.1	14.6	11.2	9.5	9.7	9.7	9.8	9.9	10.5	11.2
97.5°	54.9	57.0	59.2	61.3	56.7	45.6	34.4	23.1	12.0	12.0	12.0
100°	75.9	77.7	79.5	81.4	75.3	61.5	47.6	33.7	19.9	18.1	16.5
102.5°	99.3	100.6	102.0	103.3	103.1	101.2	99.4	97.6	95.8	77.4	58.9
105°	136.7	137.2	137.8	138.4	138.9	139.5	140.0	140.5	141.0	141.9	142.8
107.5°	171.7	172.0	172.2	172.5	173.0	173.7	174.4	175.1	175.8	176.3	176.7
110°	195.5	195.8	196.1	196.4	196.9	197.5	198.0	198.7	199.3	199.5	199.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	218.9	219.4	220.0	220.5	220.9	221.2	221.5	221.8	222.0	222.0	222.0
115°	254.3	254.5	254.8	255.2	255.2	255.2	255.1	254.9	254.8	255.1	255.2
117.5°	286.5	286.8	287.2	287.6	288.0	288.2	288.4	288.6	288.8	288.8	288.8
120°	308.2	308.6	309.0	309.3	309.5	309.4	309.3	309.2	309.1	309.3	309.5
122.5°	328.2	328.4	328.7	328.9	329.2	329.3	329.4	329.5	329.7	329.8	329.9
125°	357.4	357.8	358.2	358.6	358.7	358.5	358.3	358.1	357.9	358.2	358.5
127.5°	384.5	384.7	384.8	384.8	385.2	385.6	386.0	386.5	387.0	386.9	386.9
130°	402.3	402.3	402.5	402.6	402.7	403.1	403.4	403.7	404.0	404.1	404.2
132.5°	418.6	418.8	419.0	419.1	419.5	419.9	420.2	420.6	421.0	421.0	421.2
135°	442.8	442.7	442.5	442.4	442.6	443.0	443.4	443.8	444.2	444.4	444.6
137.5°	464.5	464.5	464.5	464.6	464.9	465.2	465.7	466.2	466.6	466.8	467.1
140°	478.7	479.0	479.1	479.3	479.5	479.7	480.0	480.1	480.4	480.6	480.9
142.5°	491.5	491.9	492.3	492.7	492.9	493.0	493.1	493.2	493.4	493.6	493.8
145°	511.0	511.2	511.5	511.8	512.0	512.0	512.0	512.0	512.0	512.1	512.1
147.5°	526.6	527.2	527.8	528.3	528.5	528.5	528.4	528.2	528.1	528.2	528.3
150°	537.7	538.1	538.5	538.9	539.1	538.9	538.8	538.8	538.6	538.6	538.6
152.5°	547.0	547.3	547.6	548.0	548.0	547.9	547.7	547.5	547.3	547.5	547.6
155°	560.0	560.1	560.2	560.3	560.2	559.9	559.6	559.3	559.0	559.4	559.8
157.5°	570.9	570.8	570.8	570.8	570.5	570.2	569.9	569.5	569.2	569.7	570.2
160°	577.2	576.9	576.6	576.3	576.1	576.0	575.9	575.8	575.7	576.3	576.9
162.5°	582.9	582.5	582.2	581.8	581.5	581.4	581.3	581.2	581.1	581.7	582.3
165°	590.1	589.6	589.1	588.6	588.4	588.4	588.4	588.4	588.4	589.1	589.9
167.5°	595.9	595.3	594.8	594.3	594.0	594.0	593.9	593.8	593.7	594.7	595.6
170°	599.0	598.4	597.9	597.2	597.0	597.1	597.1	597.3	597.4	598.2	599.0
172.5°	601.2	600.6	600.0	599.4	599.1	599.3	599.4	599.4	599.5	600.4	601.2
175°	603.6	602.9	602.4	601.7	601.5	601.6	601.7	601.8	601.9	602.8	603.7
177.5°	604.7	604.1	603.6	603.0	602.8	602.9	603.1	603.2	603.4	604.1	604.8
180°	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0	1322.0
2.5°	1393.4	1394.3	1398.2	1401.3	1402.2	1406.6	1407.0
5°	1515.8	1525.2	1543.3	1544.9	1547.6	1561.9	1550.9
7.5°	1659.4	1683.0	1698.8	1712.7	1717.8	1723.9	1722.7
10°	1751.4	1786.4	1804.0	1831.8	1833.0	1840.1	1835.7
12.5°	1843.8	1884.5	1916.5	1921.7	1945.1	1948.7	1954.9
15°	1974.8	2018.1	2062.4	2078.3	2110.6	2118.3	2130.3
17.5°	2097.9	2142.1	2173.3	2214.3	2227.6	2245.4	2233.2
20°	2165.4	2213.6	2253.0	2285.3	2299.0	2308.8	2307.8
22.5°	2206.1	2254.7	2286.7	2311.1	2323.9	2328.1	2327.9
25°	2231.7	2259.5	2269.4	2278.7	2264.5	2259.5	2261.8
27.5°	2160.7	2153.5	2127.7	2094.0	2058.9	2031.1	2015.9
30°	2063.0	2020.2	1981.3	1913.4	1878.4	1857.6	1839.0
32.5°	1924.5	1856.8	1782.0	1719.8	1680.0	1649.1	1644.5
35°	1687.3	1585.4	1494.0	1417.8	1378.4	1345.0	1337.4
37.5°	1434.5	1328.6	1246.3	1179.3	1136.9	1113.3	1091.3
40°	1266.7	1175.8	1094.7	1037.8	1005.4	988.5	974.8
42.5°	1137.4	1054.4	973.8	930.4	901.2	890.8	882.8
45°	958.9	881.7	825.9	793.0	776.0	758.5	750.3
47.5°	815.9	753.1	716.3	688.4	670.2	659.8	654.5
50°	734.9	683.4	650.6	629.2	612.8	604.6	600.2
52.5°	663.1	620.8	593.2	576.2	565.1	559.0	557.3
55°	571.2	538.8	521.3	506.6	498.4	492.9	490.7
57.5°	496.5	471.7	457.4	445.2	442.0	437.4	435.9
60°	447.4	428.3	416.2	408.0	405.3	399.8	400.8
62.5°	404.0	388.4	378.1	373.4	369.8	365.2	366.7
65°	341.7	330.3	324.7	320.4	316.0	313.2	315.4
67.5°	286.8	278.8	271.4	268.9	266.7	266.3	264.0
70°	250.8	244.2	237.7	236.1	236.1	233.9	233.3
72.5°	216.2	211.4	207.0	205.8	204.1	204.9	202.6
75°	167.0	163.2	161.5	159.9	159.4	159.4	157.7
77.5°	123.4	120.6	118.0	118.0	116.0	115.3	115.0
80°	93.6	92.5	90.4	90.4	89.3	89.8	88.7
82.5°	70.4	68.9	68.4	67.6	66.1	66.1	65.0
85°	37.8	36.1	35.6	34.0	32.9	34.0	32.9
87.5°	15.5	15.2	14.8	13.9	13.5	13.6	12.4
90°	11.7	12.4	12.8	13.0	13.2	13.4	13.5
92.5°	11.4	12.0	12.3	12.4	12.4	12.4	12.4
95°	11.7	12.4	12.7	12.8	12.9	13.0	13.1
97.5°	12.1	12.2	12.3	12.4	12.4	12.5	12.7
100°	14.7	13.1	12.3	12.4	12.4	12.5	12.7
102.5°	40.6	22.1	12.9	13.0	13.0	13.0	13.0
105°	143.7	144.6	143.2	139.7	136.0	132.4	128.8
107.5°	177.1	177.5	177.9	178.3	178.7	179.1	179.5
110°	199.9	200.1	200.3	200.7	200.9	201.2	201.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	222.0	221.9	222.0	222.4	222.8	223.2	223.6
115°	255.5	255.6	255.8	255.8	255.8	255.8	255.8
117.5°	288.8	288.7	288.7	288.6	288.6	288.5	288.5
120°	309.7	309.9	309.9	309.7	309.5	309.3	309.1
122.5°	330.0	330.2	330.1	329.9	329.7	329.5	329.3
125°	358.8	359.1	359.3	359.4	359.5	359.6	359.7
127.5°	386.8	386.7	386.7	386.6	386.5	386.4	386.3
130°	404.3	404.4	404.4	404.4	404.4	404.4	404.4
132.5°	421.3	421.4	421.4	421.3	421.2	421.1	421.0
135°	444.8	445.0	445.2	445.4	445.6	445.8	446.0
137.5°	467.3	467.5	467.5	467.5	467.5	467.4	467.3
140°	481.3	481.6	481.7	481.9	482.0	482.0	482.1
142.5°	494.0	494.2	494.4	494.4	494.4	494.4	494.5
145°	512.3	512.4	512.5	512.7	512.9	513.2	513.3
147.5°	528.4	528.5	528.5	528.7	528.8	528.9	528.9
150°	538.6	538.6	538.7	538.8	538.9	539.0	539.1
152.5°	547.8	548.0	548.0	548.0	547.9	547.8	547.8
155°	560.2	560.5	560.6	560.3	560.0	559.8	559.4
157.5°	570.8	571.2	571.2	570.8	570.2	569.7	569.2
160°	577.5	578.1	578.1	577.5	576.9	576.3	575.7
162.5°	582.9	583.5	583.5	582.8	582.1	581.5	580.7
165°	590.7	591.6	591.5	590.6	589.7	588.8	587.9
167.5°	596.4	597.3	597.2	596.3	595.2	594.2	593.3
170°	599.8	600.6	600.5	599.5	598.5	597.5	596.5
172.5°	602.0	602.8	602.6	601.6	600.5	599.4	598.3
175°	604.6	605.5	605.4	604.2	602.9	601.7	600.6
177.5°	605.4	606.0	605.9	604.9	604.0	602.9	602.0
180°	604.2	604.2	604.2	604.2	604.2	604.2	604.2

(END OF REPORT)