

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: P332957-930

Luminaire Tested: **SA4XXRDIP-C1020D365U930-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332957-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXRDIP-C1020D365U930-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4603.6 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Direct

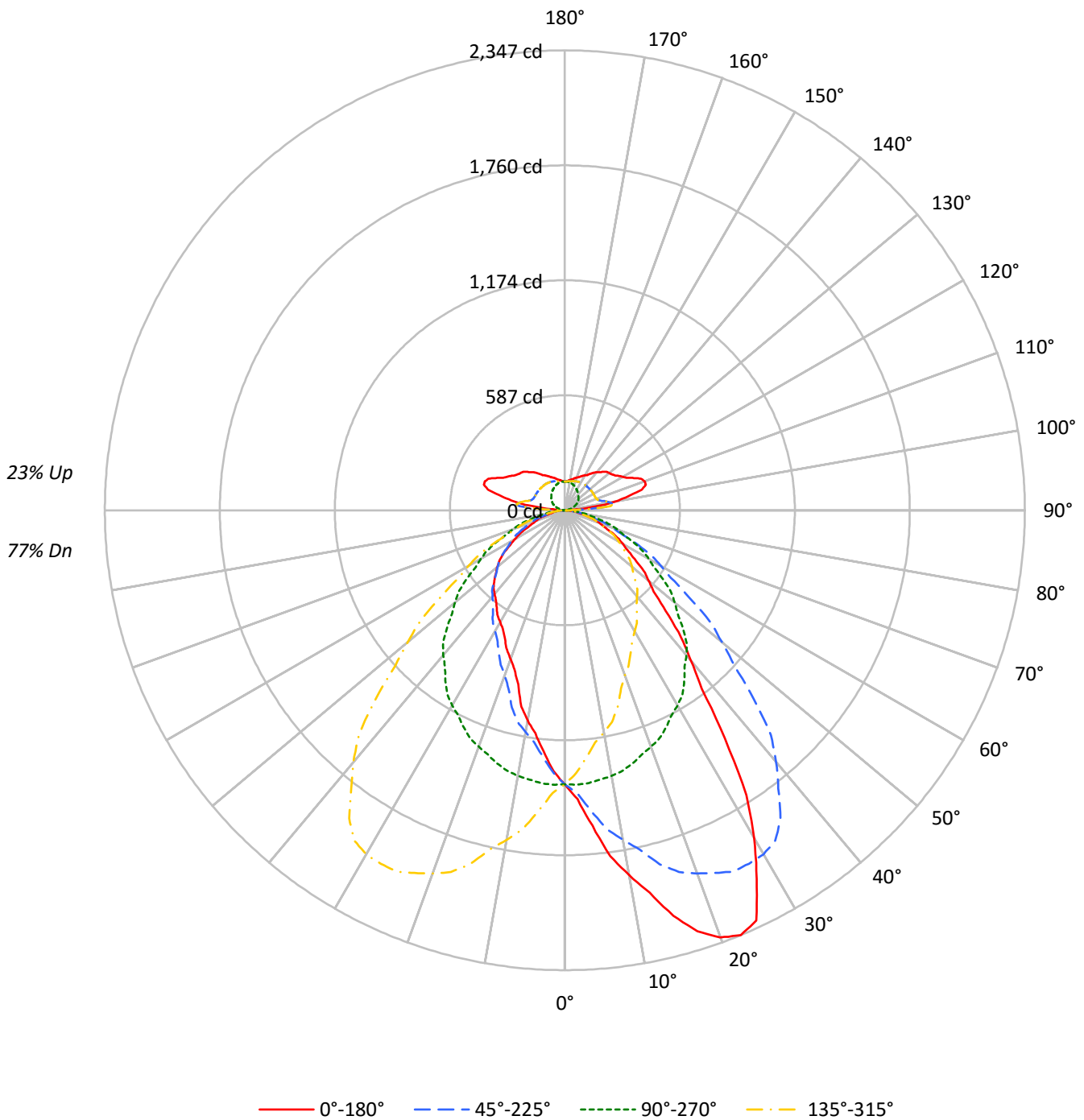
Input Watts (W): 43.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	89	87	85	82	80	78	76	73	71	70	66
2	96	88	82	77	91	85	79	75	77	73	69	71	67	65	65	62	60	57
3	88	78	71	65	84	75	69	63	69	64	59	63	59	55	58	55	52	49
4	81	70	62	56	77	67	60	54	62	56	51	57	52	48	52	48	45	42
5	74	63	55	49	71	60	53	47	56	49	45	51	46	42	47	43	40	37
6	69	57	48	43	66	55	47	42	50	44	39	47	41	37	43	39	35	33
7	64	51	43	38	61	50	42	37	46	40	35	43	37	33	40	35	32	29
8	60	47	39	34	57	45	38	33	42	36	31	39	34	30	36	32	28	26
9	56	43	36	30	53	42	35	30	39	33	28	36	31	27	34	29	26	24
10	52	40	32	28	50	38	32	27	36	30	26	34	28	25	31	27	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11293	11293	11293	11293
5°	13100	11327	10011	11327
10°	15497	11278	8936	11278
15°	17901	11173	7678	11173
20°	19930	11030	6943	11030
25°	20574	10889	6446	10889
30°	18011	10718	6147	10718
35°	14020	10464	5966	10464
40°	10513	10175	5868	10175
45°	8301	9710	5817	9710
50°	7008	9173	5649	9173
55°	6108	8583	5346	8583
60°	5496	7971	4732	7971
65°	4844	7310	4069	7310
70°	4362	6626	3673	6626
75°	3656	5873	3132	5873
80°	3092	5002	2934	5002
85°	2612	3909	2612	3909



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.5	2.9
10°-20°	408.9	8.9
20°-30°	639.5	13.9
30°-40°	710.9	15.4
40°-50°	630.7	13.7
50°-60°	491.5	10.7
60°-70°	321.8	7.0
70°-80°	158.2	3.4
80°-90°	39.9	0.9
90°-100°	105.9	2.3
100°-110°	220.5	4.8
110°-120°	197.5	4.3
120°-130°	166.1	3.6
130°-140°	138.5	3.0
140°-150°	105.8	2.3
150°-160°	74.4	1.6
160°-170°	43.7	1.0
170°-180°	14.2	0.3
0°-30°	1183.9	25.7
0°-40°	1894.8	41.2
0°-60°	3017.0	65.5
0°-90°	3536.9	76.8
90°-120°	523.9	11.4
90°-150°	934.3	20.3
90°-180°	1067.0	23.2
0°-180°	4603.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1399	1399	1399	1399	1399	
5°	1616	1398	1235	1398	1616	164
15°	2142	1337	919	1337	2142	609
25°	2310	1222	724	1222	2310	1025
35°	1423	1062	605	1062	1423	892
45°	727	850	510	850	727	576
55°	434	610	380	610	434	395
65°	254	383	213	383	254	255
75°	117	188	100	188	117	129
85°	28	42	28	42	28	32
90°	6	0	6	0	6	6
95°	70	10	70	10	70	109
105°	405	34	405	34	405	401
115°	389	59	389	59	389	386
125°	311	83	311	83	311	282
135°	278	98	278	98	278	214
145°	227	113	227	113	227	144
155°	190	129	190	129	190	89
165°	166	140	166	140	166	47
175°	149	146	149	146	149	15
180°	147	147	147	147	147	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9
2.5°	1475.5	1479.6	1475.5	1475.1	1470.6	1469.3	1467.5	1461.6	1450.7	1444.5	1445.8
5°	1616.5	1630.5	1622.7	1621.5	1609.2	1596.8	1588.9	1570.8	1551.7	1538.7	1528.0
7.5°	1779.5	1787.5	1782.7	1774.7	1754.7	1743.3	1725.0	1701.2	1666.9	1640.5	1616.6
10°	1890.4	1897.1	1894.9	1880.2	1865.6	1835.7	1818.8	1785.6	1742.1	1707.8	1675.6
12.5°	1999.5	2006.7	1986.9	1987.5	1959.8	1936.3	1909.4	1867.6	1817.5	1773.1	1732.9
15°	2141.8	2132.7	2132.7	2121.5	2090.4	2057.8	2030.2	1986.2	1923.0	1870.1	1814.3
17.5°	2253.2	2256.3	2251.7	2225.0	2200.7	2166.9	2116.3	2065.0	2006.4	1935.3	1878.2
20°	2319.9	2319.9	2314.8	2296.8	2265.2	2229.1	2174.5	2118.6	2044.3	1972.7	1908.5
22.5°	2346.9	2348.7	2342.8	2327.8	2299.5	2264.2	2217.7	2161.0	2084.4	2003.8	1924.2
25°	2309.7	2320.4	2321.6	2317.6	2309.2	2287.7	2247.7	2189.6	2120.9	2033.5	1947.8
27.5°	2120.6	2134.1	2145.9	2165.4	2191.4	2204.9	2206.7	2177.2	2117.2	2033.1	1946.9
30°	1932.1	1943.3	1980.0	2027.9	2065.1	2098.9	2128.3	2136.1	2102.3	2026.8	1936.0
32.5°	1722.9	1738.2	1774.8	1826.4	1888.3	1945.6	2011.4	2045.0	2044.1	1998.8	1914.8
35°	1422.6	1433.9	1467.7	1521.8	1596.2	1681.3	1785.6	1866.7	1921.9	1918.0	1866.7
37.5°	1147.3	1160.0	1194.2	1239.1	1311.2	1416.6	1517.5	1629.3	1731.5	1788.8	1771.6
40°	997.6	998.2	1031.4	1077.7	1145.3	1237.1	1347.0	1471.0	1584.9	1677.9	1695.9
42.5°	879.5	879.5	901.6	951.4	1000.1	1086.5	1191.5	1314.6	1447.8	1555.3	1603.0
45°	727.1	732.1	750.2	780.1	818.4	891.6	975.6	1090.1	1239.4	1366.8	1446.3
47.5°	615.7	623.1	634.6	659.0	689.5	738.3	807.8	910.6	1032.1	1172.2	1285.3
50°	558.0	559.1	573.7	587.3	613.8	652.6	713.5	799.2	910.8	1045.5	1171.2
52.5°	508.4	508.2	517.0	534.1	555.6	586.0	635.1	713.1	812.0	932.8	1062.5
55°	434.0	436.8	443.6	457.1	473.4	494.9	533.8	592.4	670.2	773.3	891.1
57.5°	377.4	378.9	384.2	389.9	404.9	420.4	449.6	490.3	556.0	640.4	750.2
60°	340.4	341.0	342.7	351.1	363.0	377.6	397.4	431.7	487.0	564.2	651.0
62.5°	304.4	305.3	307.9	314.1	323.3	333.5	354.1	381.7	427.5	493.4	571.6
65°	253.6	254.2	258.1	260.4	267.7	276.7	292.0	310.5	342.1	397.4	456.6
67.5°	211.9	211.9	212.1	215.2	220.3	226.2	235.4	250.2	274.0	307.9	360.1
70°	184.8	184.8	186.0	187.7	190.5	195.6	200.6	211.9	229.4	257.0	297.0
72.5°	159.6	160.0	161.2	161.5	163.0	167.1	170.9	178.1	191.1	211.9	244.3
75°	117.2	119.0	121.7	124.0	126.8	126.3	130.2	134.7	138.7	151.1	169.7
77.5°	87.2	86.3	86.7	88.6	88.9	89.5	92.3	95.8	98.7	104.6	111.3
80°	66.5	66.5	68.2	68.7	68.2	68.7	71.6	73.3	74.4	76.6	82.8
82.5°	50.3	51.2	50.6	51.2	51.5	52.1	54.5	54.8	55.9	56.8	59.4
85°	28.2	28.8	29.3	28.2	28.2	28.2	29.3	29.8	31.0	30.4	31.6
87.5°	11.2	10.7	11.2	11.2	11.5	11.1	11.5	12.3	11.3	11.8	11.7
90°	6.0	6.0	6.4	6.0	5.8	5.8	5.5	5.2	4.9	5.2	4.6
92.5°	22.2	22.2	23.2	24.7	28.1	33.9	42.6	56.6	76.1	91.4	80.0
95°	70.3	74.0	79.2	88.1	102.3	130.2	168.8	213.5	241.5	234.8	177.2
97.5°	187.9	194.0	202.6	219.9	240.6	270.7	298.9	315.4	303.4	247.4	165.8
100°	264.2	266.5	275.2	292.8	317.8	339.2	353.3	347.5	305.4	231.7	150.4
102.5°	330.6	332.5	341.6	354.3	369.7	378.5	374.5	345.9	288.1	212.1	140.1
105°	405.4	407.2	411.2	413.5	412.9	401.1	372.6	322.7	256.7	189.0	131.1
107.5°	433.2	432.4	429.6	423.0	408.8	383.0	342.9	289.8	231.4	176.1	129.5
110°	433.7	431.0	425.9	413.8	393.3	361.7	319.8	270.0	218.7	171.7	130.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	420.0	415.9	408.6	394.0	370.7	339.0	299.5	255.4	211.6	169.7	131.3
115°	389.3	387.0	377.7	360.4	337.7	310.1	276.3	240.9	204.9	168.6	134.0
117.5°	358.1	356.3	347.0	332.5	313.1	289.6	263.1	233.7	201.9	168.3	136.8
120°	340.6	337.5	330.0	317.2	300.8	280.4	257.3	230.5	200.2	168.3	138.9
122.5°	326.8	323.6	317.2	306.4	292.5	274.6	253.6	227.7	198.4	168.0	141.0
125°	310.6	308.9	303.5	295.1	283.6	267.7	247.8	223.1	195.3	167.7	144.1
127.5°	301.2	299.5	294.8	287.4	275.8	260.8	240.9	217.3	191.3	167.1	146.6
130°	295.6	293.9	289.3	282.1	270.3	255.0	235.5	212.6	188.7	166.8	148.4
132.5°	289.4	287.7	283.3	275.2	263.6	248.3	229.2	207.8	186.5	166.6	150.0
135°	277.8	276.1	271.4	263.3	251.8	237.4	219.9	201.1	183.0	166.2	152.5
137.5°	263.3	261.3	257.5	249.6	238.7	225.8	210.9	195.1	180.0	166.2	153.8
140°	253.0	250.7	246.6	240.4	230.2	218.1	205.1	191.6	178.4	166.0	155.0
142.5°	241.9	240.4	236.8	230.9	221.9	211.4	200.3	188.4	177.0	166.0	156.0
145°	226.7	225.3	222.4	217.5	210.3	202.3	193.6	183.8	174.6	165.4	156.5
147.5°	213.4	212.8	210.7	206.4	201.1	194.8	187.8	180.1	172.5	164.4	156.8
150°	205.7	205.5	203.7	200.0	195.3	190.2	184.4	177.8	170.9	163.6	156.8
152.5°	198.9	198.5	197.5	194.4	190.5	186.3	181.0	175.3	169.0	162.5	156.3
155°	189.9	189.9	189.0	186.7	183.8	180.3	176.0	171.5	166.2	160.8	155.6
157.5°	182.1	182.1	181.6	179.8	177.7	174.9	171.2	167.4	163.5	159.0	154.8
160°	177.2	177.2	176.9	175.2	173.5	171.1	168.0	164.9	161.3	157.6	154.2
162.5°	172.6	172.8	172.5	170.8	169.6	167.5	165.0	162.3	159.6	156.2	153.4
165°	165.7	166.0	166.2	165.1	164.0	162.5	160.5	158.7	156.5	154.2	152.1
167.5°	160.2	160.5	160.5	159.7	159.1	158.3	156.7	155.4	153.7	152.1	150.7
170°	156.8	156.8	157.0	156.8	156.2	155.3	154.2	153.3	151.9	150.7	149.9
172.5°	153.3	153.8	154.0	153.8	153.4	152.8	152.1	151.5	150.3	149.3	149.0
175°	149.3	149.9	150.4	149.9	149.9	149.9	149.3	149.0	148.4	147.8	147.8
177.5°	146.9	147.3	147.8	147.6	147.8	147.6	147.6	147.3	147.2	146.9	146.9
180°	146.7	146.7	146.7	146.7	146.7	146.7	146.7	146.7	146.7	146.7	146.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9
2.5°	1441.3	1435.0	1431.8	1424.6	1416.0	1411.5	1407.5	1401.6	1393.9	1385.8	1380.0
5°	1514.4	1500.9	1484.0	1463.7	1445.7	1428.2	1413.0	1397.7	1380.3	1362.3	1344.3
7.5°	1589.5	1562.9	1534.1	1500.9	1468.6	1439.2	1412.1	1386.2	1356.8	1330.6	1306.7
10°	1641.8	1605.7	1565.7	1523.5	1481.2	1444.5	1408.5	1375.8	1339.7	1307.6	1280.5
12.5°	1684.2	1641.8	1593.7	1541.1	1490.2	1445.9	1404.4	1361.8	1320.8	1286.0	1249.9
15°	1754.5	1696.5	1631.7	1568.6	1502.6	1442.3	1386.5	1336.9	1290.1	1241.1	1206.7
17.5°	1802.9	1734.1	1655.2	1579.4	1501.5	1430.4	1366.0	1306.9	1253.0	1202.9	1162.0
20°	1831.7	1755.7	1668.3	1582.1	1494.7	1418.6	1349.3	1283.9	1228.2	1174.0	1131.7
22.5°	1848.0	1763.8	1668.3	1578.0	1487.5	1405.1	1329.0	1260.9	1200.2	1146.1	1099.3
25°	1853.2	1763.0	1665.5	1561.8	1462.6	1375.2	1296.3	1222.5	1154.9	1100.7	1051.2
27.5°	1846.0	1739.8	1639.9	1533.5	1431.2	1339.0	1256.2	1178.7	1110.9	1052.9	1002.0
30°	1835.2	1721.3	1614.2	1503.7	1400.0	1311.6	1224.2	1149.8	1079.3	1019.0	967.8
32.5°	1811.7	1698.8	1583.6	1470.4	1365.3	1274.1	1191.2	1116.4	1047.3	985.7	931.2
35°	1765.3	1650.8	1525.8	1409.7	1306.4	1211.8	1134.0	1061.8	995.9	930.0	872.5
37.5°	1704.1	1587.1	1462.7	1335.5	1232.3	1142.9	1071.5	1003.8	939.5	879.2	815.5
40°	1646.3	1539.8	1411.3	1285.1	1179.1	1092.8	1027.0	965.5	900.7	840.9	777.2
42.5°	1576.5	1485.7	1355.8	1229.1	1124.5	1041.5	980.0	919.9	861.0	803.1	736.6
45°	1459.8	1391.0	1269.3	1147.5	1042.1	959.9	903.5	850.5	798.7	743.4	680.9
47.5°	1326.1	1279.5	1174.4	1049.8	952.3	878.2	823.8	780.5	736.6	681.4	626.6
50°	1233.2	1203.3	1101.9	988.1	895.0	826.8	771.0	730.4	693.8	640.8	591.8
52.5°	1134.0	1118.1	1032.4	923.6	833.7	766.9	719.2	682.7	645.6	601.6	555.7
55°	982.9	991.4	918.7	824.6	740.0	683.7	640.3	609.8	578.3	541.1	505.6
57.5°	828.5	859.4	810.6	728.0	648.7	596.6	563.9	538.3	511.8	481.0	450.7
60°	736.1	762.0	734.4	661.7	592.4	543.9	513.5	493.7	467.2	439.0	416.0
62.5°	645.9	673.6	657.3	598.6	534.2	492.5	465.7	447.3	427.5	403.0	379.0
65°	532.6	550.7	542.7	502.2	456.6	421.0	396.2	382.7	364.7	346.7	325.2
67.5°	408.0	442.8	438.1	416.6	377.2	349.4	333.2	321.2	304.8	291.4	276.9
70°	335.3	367.5	366.9	349.4	328.0	302.1	290.8	280.7	266.0	253.1	241.2
72.5°	274.5	303.9	308.3	294.9	280.2	260.7	249.8	242.8	228.6	219.7	210.1
75°	192.2	213.6	219.2	219.2	212.5	202.4	192.7	188.3	178.1	170.2	164.6
77.5°	126.0	139.6	148.4	150.3	151.4	148.0	140.1	137.0	129.1	126.4	121.0
80°	89.0	98.1	108.2	111.6	114.4	113.3	109.9	107.6	100.4	97.5	95.2
82.5°	61.6	66.5	74.8	82.3	81.5	84.5	81.5	79.7	74.2	73.1	70.9
85°	32.1	32.7	33.8	38.9	41.7	42.8	43.4	42.2	40.6	40.6	36.6
87.5°	11.7	11.2	11.7	11.7	12.1	13.9	15.1	15.4	14.2	13.0	11.7
90°	4.0	4.0	2.3	2.3	2.0	1.7	0.9	0.3	0.9	1.7	2.0
92.5°	58.2	35.9	21.2	15.2	11.0	7.5	4.8	3.3	4.8	7.5	11.0
95°	108.4	61.1	36.0	23.9	17.0	13.3	10.4	9.5	10.4	13.3	17.0
97.5°	97.4	58.4	39.1	28.9	23.0	19.6	17.0	17.0	17.0	19.6	23.0
100°	91.6	59.1	42.1	32.9	27.4	23.9	21.9	21.9	21.9	23.9	27.4
102.5°	90.0	61.4	46.0	37.3	32.0	28.8	27.0	26.5	27.0	28.8	32.0
105°	90.7	66.9	53.0	44.7	39.5	36.0	34.6	33.8	34.6	36.0	39.5
107.5°	95.1	73.2	60.6	52.3	47.4	43.7	42.2	41.7	42.2	43.7	47.4
110°	98.2	78.1	65.4	57.6	52.4	49.0	47.5	47.0	47.5	49.0	52.4



TEST NUMBER: P332957-930

CATALOG NUMBER: SA4XXRDIP-C1020D365U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	101.7	82.7	70.4	62.7	57.5	54.3	52.6	52.0	52.6	54.3	57.5
115°	107.2	89.9	78.4	70.6	65.1	62.2	60.3	59.4	60.3	62.2	65.1
117.5°	112.8	96.9	85.9	77.9	72.7	69.5	67.8	66.9	67.8	69.5	72.7
120°	116.7	101.7	90.7	82.7	77.8	74.6	72.6	72.1	72.6	74.6	77.8
122.5°	120.4	106.3	95.4	87.6	82.2	79.2	77.2	76.6	77.2	79.2	82.2
125°	125.9	112.7	102.3	94.2	88.8	85.6	83.8	82.7	83.8	85.6	88.8
127.5°	130.7	118.5	108.5	100.4	94.7	91.1	88.9	88.1	88.9	91.1	94.7
130°	133.7	122.5	112.7	104.3	98.8	94.5	92.2	91.1	92.2	94.5	98.8
132.5°	136.7	125.7	115.9	108.0	102.1	98.0	95.0	94.1	95.0	98.0	102.1
135°	140.6	130.2	120.7	113.2	107.2	102.3	99.4	98.2	99.4	102.3	107.2
137.5°	143.4	133.7	124.8	117.6	111.4	106.7	103.5	102.5	103.5	106.7	111.4
140°	145.2	136.0	127.3	120.4	114.4	109.5	106.3	105.5	106.3	109.5	114.4
142.5°	146.6	138.1	129.6	122.9	117.2	112.5	109.6	108.7	109.6	112.5	117.2
145°	148.1	140.3	132.8	126.5	121.0	117.0	114.1	113.2	114.1	117.0	121.0
147.5°	149.4	142.6	135.6	129.9	125.3	121.2	118.6	118.4	118.6	121.2	125.3
150°	150.1	143.8	137.5	132.0	127.7	124.2	121.9	121.6	121.9	124.2	127.7
152.5°	150.6	144.7	139.1	134.0	130.2	126.9	124.7	124.6	124.7	126.9	130.2
155°	151.0	146.1	141.2	136.9	133.7	130.9	129.1	128.8	129.1	130.9	133.7
157.5°	151.0	147.1	142.9	139.5	136.7	134.5	132.9	132.9	132.9	134.5	136.7
160°	151.0	147.6	144.1	140.9	138.6	136.6	135.4	135.4	135.4	136.6	138.6
162.5°	151.0	148.0	144.8	142.3	140.2	138.4	137.5	137.7	137.5	138.4	140.2
165°	150.4	148.1	145.5	143.8	142.4	140.9	140.3	140.3	140.3	140.9	142.4
167.5°	149.7	148.1	146.2	144.8	144.0	142.9	142.6	142.9	142.6	142.9	144.0
170°	149.3	147.8	146.3	145.5	145.0	144.1	143.8	144.1	143.8	144.1	145.0
172.5°	148.8	147.6	146.6	145.9	145.6	145.0	145.0	145.2	145.0	145.0	145.6
175°	148.1	147.2	146.7	146.7	146.3	146.1	146.1	146.3	146.1	146.1	146.3
177.5°	147.3	146.9	146.7	146.7	146.7	146.4	146.7	146.9	146.7	146.4	146.7
180°	146.7	146.7	146.7	146.7	146.7	146.7	146.7	146.7	146.7	146.7	146.7



TEST NUMBER: P332957-930

CATALOG NUMBER: SA4XXRDIP-C1020D365U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9
2.5°	1373.6	1369.1	1363.3	1356.5	1348.4	1341.2	1338.1	1340.8	1342.1	1338.5	1338.1
5°	1331.9	1317.8	1306.4	1289.6	1276.0	1264.8	1256.9	1253.5	1254.6	1245.6	1243.3
7.5°	1284.8	1268.1	1249.7	1229.6	1210.9	1194.3	1185.6	1180.9	1171.3	1167.3	1160.4
10°	1254.6	1232.1	1214.1	1190.3	1169.0	1149.2	1139.6	1131.7	1122.2	1117.7	1108.1
12.5°	1223.5	1197.3	1177.5	1152.9	1131.1	1107.3	1098.1	1083.5	1068.5	1059.1	1046.8
15°	1179.7	1148.1	1123.9	1094.5	1068.6	1041.5	1017.3	990.3	980.2	958.7	946.3
17.5°	1128.4	1096.3	1066.3	1027.0	987.0	953.4	927.6	901.6	886.1	872.5	866.2
20°	1094.5	1065.3	1023.5	977.9	933.4	896.2	875.3	858.4	841.5	831.9	825.2
22.5°	1062.5	1025.1	976.6	927.4	882.9	853.8	836.1	818.7	804.9	795.8	786.8
25°	1008.9	959.9	908.6	852.2	821.7	796.4	777.2	763.1	754.7	742.8	738.3
27.5°	953.7	894.4	837.8	799.9	768.2	745.0	728.3	717.7	707.0	699.4	693.6
30°	911.3	851.1	800.4	764.3	732.1	713.0	699.4	687.1	678.6	672.4	667.9
32.5°	869.4	809.1	766.5	727.7	702.4	683.7	669.3	660.0	653.4	645.3	642.6
35°	808.8	755.2	718.0	683.1	657.2	640.3	629.0	619.4	613.8	611.6	609.8
37.5°	750.5	706.7	666.7	638.1	614.9	601.6	588.3	583.6	579.8	575.7	577.5
40°	713.5	672.4	636.9	606.4	587.8	573.2	565.3	559.7	556.3	556.3	556.3
42.5°	681.5	641.3	606.7	579.4	560.8	548.4	539.6	534.8	533.8	533.3	536.0
45°	631.9	594.6	559.7	537.1	521.4	508.9	503.9	499.9	499.9	502.2	502.7
47.5°	582.5	547.7	519.7	494.4	480.0	472.2	467.8	465.8	466.0	468.2	470.8
50°	552.4	518.0	490.3	467.8	454.3	446.9	443.0	441.9	443.0	443.0	446.9
52.5°	519.4	488.7	461.5	442.5	427.2	420.4	418.2	416.6	417.3	419.1	420.8
55°	471.2	443.6	417.7	399.6	388.3	383.8	378.8	379.3	378.2	379.3	379.3
57.5°	422.8	398.0	373.9	359.6	349.7	343.2	337.6	339.2	337.5	337.3	336.4
60°	391.8	364.7	345.5	332.6	321.2	315.6	310.5	311.7	310.0	308.8	306.6
62.5°	357.9	335.3	317.1	304.6	295.5	289.0	284.0	282.8	278.9	275.1	270.1
65°	308.8	290.2	273.9	262.1	253.6	248.6	244.6	241.2	232.8	223.7	219.2
67.5°	261.2	247.8	232.5	222.5	215.6	209.0	201.5	195.7	187.8	182.9	180.0
70°	230.5	217.5	204.6	195.0	187.7	181.5	173.0	169.1	163.5	161.2	158.4
72.5°	201.2	189.1	177.1	168.4	160.6	155.8	149.1	145.2	142.7	141.8	139.0
75°	156.7	147.1	138.1	130.2	124.0	120.6	117.8	115.0	113.8	108.8	106.0
77.5°	114.3	108.0	102.3	96.7	92.3	90.1	84.6	81.4	79.5	77.1	76.6
80°	89.0	84.5	78.9	75.5	69.3	67.1	64.8	64.2	63.7	63.1	62.5
82.5°	66.9	62.5	56.8	54.8	53.1	51.8	50.4	49.8	49.2	49.6	49.5
85°	33.8	31.6	31.6	31.0	30.4	29.8	29.3	29.3	28.8	29.3	28.8
87.5°	11.7	11.3	11.7	10.8	11.3	11.4	10.9	10.9	11.5	10.6	10.6
90°	2.3	2.3	4.0	4.0	4.6	5.2	4.9	5.2	5.5	5.8	5.8
92.5°	15.2	21.2	35.9	58.2	80.0	91.4	76.1	56.6	42.6	33.9	28.1
95°	23.9	36.0	61.1	108.4	177.2	234.8	241.5	213.5	168.8	130.2	102.3
97.5°	28.9	39.1	58.4	97.4	165.8	247.4	303.4	315.4	298.9	270.7	240.6
100°	32.9	42.1	59.1	91.6	150.4	231.7	305.4	347.5	353.3	339.2	317.8
102.5°	37.3	46.0	61.4	90.0	140.1	212.1	288.1	345.9	374.5	378.5	369.7
105°	44.7	53.0	66.9	90.7	131.1	189.0	256.7	322.7	372.6	401.1	412.9
107.5°	52.3	60.6	73.2	95.1	129.5	176.1	231.4	289.8	342.9	383.0	408.8
110°	57.6	65.4	78.1	98.2	130.0	171.7	218.7	270.0	319.8	361.7	393.3



TEST NUMBER: P332957-930

CATALOG NUMBER: SA4XXRDIP-C1020D365U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	62.7	70.4	82.7	101.7	131.3	169.7	211.6	255.4	299.5	339.0	370.7
115°	70.6	78.4	89.9	107.2	134.0	168.6	204.9	240.9	276.3	310.1	337.7
117.5°	77.9	85.9	96.9	112.8	136.8	168.3	201.9	233.7	263.1	289.6	313.1
120°	82.7	90.7	101.7	116.7	138.9	168.3	200.2	230.5	257.3	280.4	300.8
122.5°	87.6	95.4	106.3	120.4	141.0	168.0	198.4	227.7	253.6	274.6	292.5
125°	94.2	102.3	112.7	125.9	144.1	167.7	195.3	223.1	247.8	267.7	283.6
127.5°	100.4	108.5	118.5	130.7	146.6	167.1	191.3	217.3	240.9	260.8	275.8
130°	104.3	112.7	122.5	133.7	148.4	166.8	188.7	212.6	235.5	255.0	270.3
132.5°	108.0	115.9	125.7	136.7	150.0	166.6	186.5	207.8	229.2	248.3	263.6
135°	113.2	120.7	130.2	140.6	152.5	166.2	183.0	201.1	219.9	237.4	251.8
137.5°	117.6	124.8	133.7	143.4	153.8	166.2	180.0	195.1	210.9	225.8	238.7
140°	120.4	127.3	136.0	145.2	155.0	166.0	178.4	191.6	205.1	218.1	230.2
142.5°	122.9	129.6	138.1	146.6	156.0	166.0	177.0	188.4	200.3	211.4	221.9
145°	126.5	132.8	140.3	148.1	156.5	165.4	174.6	183.8	193.6	202.3	210.3
147.5°	129.9	135.6	142.6	149.4	156.8	164.4	172.5	180.1	187.8	194.8	201.1
150°	132.0	137.5	143.8	150.1	156.8	163.6	170.9	177.8	184.4	190.2	195.3
152.5°	134.0	139.1	144.7	150.6	156.3	162.5	169.0	175.3	181.0	186.3	190.5
155°	136.9	141.2	146.1	151.0	155.6	160.8	166.2	171.5	176.0	180.3	183.8
157.5°	139.5	142.9	147.1	151.0	154.8	159.0	163.5	167.4	171.2	174.9	177.7
160°	140.9	144.1	147.6	151.0	154.2	157.6	161.3	164.9	168.0	171.1	173.5
162.5°	142.3	144.8	148.0	151.0	153.4	156.2	159.6	162.3	165.0	167.5	169.6
165°	143.8	145.5	148.1	150.4	152.1	154.2	156.5	158.7	160.5	162.5	164.0
167.5°	144.8	146.2	148.1	149.7	150.7	152.1	153.7	155.4	156.7	158.3	159.1
170°	145.5	146.3	147.8	149.3	149.9	150.7	151.9	153.3	154.2	155.3	156.2
172.5°	145.9	146.6	147.6	148.8	149.0	149.3	150.3	151.5	152.1	152.8	153.4
175°	146.7	146.7	147.2	148.1	147.8	147.8	148.4	149.0	149.3	149.9	149.9
177.5°	146.7	146.7	146.9	147.3	146.9	146.9	147.2	147.3	147.6	147.6	147.8
180°	146.7	146.7	146.7	146.7	146.7	146.7	146.7	146.7	146.7	146.7	146.7



TEST NUMBER: P332957-930

CATALOG NUMBER: SA4XXRDIP-C1020D365U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9
2.5°	1335.3	1336.2	1333.1	1332.2	1333.1	1336.2	1335.3	1338.1	1338.5	1342.1	1340.8
5°	1238.8	1237.7	1234.9	1235.4	1234.9	1237.7	1238.8	1243.3	1245.6	1254.6	1253.5
7.5°	1156.3	1151.9	1153.2	1148.7	1153.2	1151.9	1156.3	1160.4	1167.3	1171.3	1180.9
10°	1105.8	1099.6	1094.5	1090.1	1094.5	1099.6	1105.8	1108.1	1117.7	1122.2	1131.7
12.5°	1036.8	1031.5	1024.7	1026.1	1024.7	1031.5	1036.8	1046.8	1059.1	1068.5	1083.5
15°	939.0	930.5	917.0	918.7	917.0	930.5	939.0	946.3	958.7	980.2	990.3
17.5°	856.1	856.2	850.0	851.5	850.0	856.2	856.1	866.2	872.5	886.1	901.6
20°	813.3	809.3	809.9	808.2	809.9	809.3	813.3	825.2	831.9	841.5	858.4
22.5°	783.6	778.7	774.8	771.3	774.8	778.7	783.6	786.8	795.8	804.9	818.7
25°	733.3	729.9	724.8	723.7	724.8	729.9	733.3	738.3	742.8	754.7	763.1
27.5°	689.1	688.4	686.4	683.8	686.4	688.4	689.1	693.6	699.4	707.0	717.7
30°	663.4	662.3	661.1	659.4	661.1	662.3	663.4	667.9	672.4	678.6	687.1
32.5°	640.4	639.7	638.5	638.7	638.5	639.7	640.4	642.6	645.3	653.4	660.0
35°	607.6	607.0	605.9	605.4	605.9	607.0	607.6	609.8	611.6	613.8	619.4
37.5°	576.9	578.4	577.7	577.6	577.7	578.4	576.9	577.5	575.7	579.8	583.6
40°	555.7	556.3	557.4	556.8	557.4	556.3	555.7	556.3	556.3	556.3	559.7
42.5°	538.2	538.3	539.8	537.9	539.8	538.3	538.2	536.0	533.3	533.8	534.8
45°	506.7	510.1	509.5	509.5	509.5	510.1	506.7	502.7	502.2	499.9	499.9
47.5°	472.3	475.2	476.1	475.9	476.1	475.2	472.3	470.8	468.2	466.0	465.8
50°	449.8	448.7	450.4	449.8	450.4	448.7	449.8	446.9	443.0	443.0	441.9
52.5°	422.2	422.5	422.4	421.8	422.4	422.5	422.2	420.8	419.1	417.3	416.6
55°	379.8	380.4	379.3	379.8	379.3	380.4	379.8	379.3	379.3	378.2	379.3
57.5°	333.9	331.2	332.3	330.9	332.3	331.2	333.9	336.4	337.3	337.5	339.2
60°	301.0	296.4	295.3	293.1	295.3	296.4	301.0	306.6	308.8	310.0	311.7
62.5°	264.0	260.8	257.0	258.8	257.0	260.8	264.0	270.1	275.1	278.9	282.8
65°	214.7	212.5	210.8	213.0	210.8	212.5	214.7	219.2	223.7	232.8	241.2
67.5°	177.7	176.5	176.5	175.4	176.5	176.5	177.7	180.0	182.9	187.8	195.7
70°	158.4	156.7	156.7	155.6	156.7	156.7	158.4	158.4	161.2	163.5	169.1
72.5°	138.5	136.8	137.3	136.6	137.3	136.8	138.5	139.0	141.8	142.7	145.2
75°	102.6	99.8	99.8	100.4	99.8	99.8	102.6	106.0	108.8	113.8	115.0
77.5°	76.6	76.0	76.8	75.7	76.8	76.0	76.6	76.6	77.1	79.5	81.4
80°	62.5	62.0	61.5	63.1	61.5	62.0	62.5	62.5	63.1	63.7	64.2
82.5°	48.6	48.5	48.3	50.5	48.3	48.5	48.6	49.5	49.6	49.2	49.8
85°	29.3	28.2	29.3	28.2	29.3	28.2	29.3	28.8	29.3	28.8	29.3
87.5°	11.6	11.2	10.7	11.2	10.7	11.2	11.6	10.6	10.6	11.5	10.9
90°	6.0	6.4	6.0	6.0	6.0	6.4	6.0	5.8	5.8	5.5	5.2
92.5°	24.7	23.2	22.2	22.2	22.2	23.2	24.7	28.1	33.9	42.6	56.6
95°	88.1	79.2	74.0	70.3	74.0	79.2	88.1	102.3	130.2	168.8	213.5
97.5°	219.9	202.6	194.0	187.9	194.0	202.6	219.9	240.6	270.7	298.9	315.4
100°	292.8	275.2	266.5	264.2	266.5	275.2	292.8	317.8	339.2	353.3	347.5
102.5°	354.3	341.6	332.5	330.6	332.5	341.6	354.3	369.7	378.5	374.5	345.9
105°	413.5	411.2	407.2	405.4	407.2	411.2	413.5	412.9	401.1	372.6	322.7
107.5°	423.0	429.6	432.4	433.2	432.4	429.6	423.0	408.8	383.0	342.9	289.8
110°	413.8	425.9	431.0	433.7	431.0	425.9	413.8	393.3	361.7	319.8	270.0



TEST NUMBER: P332957-930

CATALOG NUMBER: SA4XXRDIP-C1020D365U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	394.0	408.6	415.9	420.0	415.9	408.6	394.0	370.7	339.0	299.5	255.4
115°	360.4	377.7	387.0	389.3	387.0	377.7	360.4	337.7	310.1	276.3	240.9
117.5°	332.5	347.0	356.3	358.1	356.3	347.0	332.5	313.1	289.6	263.1	233.7
120°	317.2	330.0	337.5	340.6	337.5	330.0	317.2	300.8	280.4	257.3	230.5
122.5°	306.4	317.2	323.6	326.8	323.6	317.2	306.4	292.5	274.6	253.6	227.7
125°	295.1	303.5	308.9	310.6	308.9	303.5	295.1	283.6	267.7	247.8	223.1
127.5°	287.4	294.8	299.5	301.2	299.5	294.8	287.4	275.8	260.8	240.9	217.3
130°	282.1	289.3	293.9	295.6	293.9	289.3	282.1	270.3	255.0	235.5	212.6
132.5°	275.2	283.3	287.7	289.4	287.7	283.3	275.2	263.6	248.3	229.2	207.8
135°	263.3	271.4	276.1	277.8	276.1	271.4	263.3	251.8	237.4	219.9	201.1
137.5°	249.6	257.5	261.3	263.3	261.3	257.5	249.6	238.7	225.8	210.9	195.1
140°	240.4	246.6	250.7	253.0	250.7	246.6	240.4	230.2	218.1	205.1	191.6
142.5°	230.9	236.8	240.4	241.9	240.4	236.8	230.9	221.9	211.4	200.3	188.4
145°	217.5	222.4	225.3	226.7	225.3	222.4	217.5	210.3	202.3	193.6	183.8
147.5°	206.4	210.7	212.8	213.4	212.8	210.7	206.4	201.1	194.8	187.8	180.1
150°	200.0	203.7	205.5	205.7	205.5	203.7	200.0	195.3	190.2	184.4	177.8
152.5°	194.4	197.5	198.5	198.9	198.5	197.5	194.4	190.5	186.3	181.0	175.3
155°	186.7	189.0	189.9	189.9	189.9	189.0	186.7	183.8	180.3	176.0	171.5
157.5°	179.8	181.6	182.1	182.1	182.1	181.6	179.8	177.7	174.9	171.2	167.4
160°	175.2	176.9	177.2	177.2	177.2	176.9	175.2	173.5	171.1	168.0	164.9
162.5°	170.8	172.5	172.8	172.6	172.8	172.5	170.8	169.6	167.5	165.0	162.3
165°	165.1	166.2	166.0	165.7	166.0	166.2	165.1	164.0	162.5	160.5	158.7
167.5°	159.7	160.5	160.5	160.2	160.5	160.5	159.7	159.1	158.3	156.7	155.4
170°	156.8	157.0	156.8	156.8	156.8	157.0	156.8	156.2	155.3	154.2	153.3
172.5°	153.8	154.0	153.8	153.3	153.8	154.0	153.8	153.4	152.8	152.1	151.5
175°	149.9	150.4	149.9	149.3	149.9	150.4	149.9	149.9	149.9	149.3	149.0
177.5°	147.6	147.8	147.3	146.9	147.3	147.8	147.6	147.8	147.6	147.6	147.3
180°	146.7	146.7	146.7	146.7	146.7	146.7	146.7	146.7	146.7	146.7	146.7



TEST NUMBER: P332957-930

CATALOG NUMBER: SA4XXRDIP-C1020D365U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9
2.5°	1338.1	1341.2	1348.4	1356.5	1363.3	1369.1	1373.6	1380.0	1385.8	1393.9	1401.6
5°	1256.9	1264.8	1276.0	1289.6	1306.4	1317.8	1331.9	1344.3	1362.3	1380.3	1397.7
7.5°	1185.6	1194.3	1210.9	1229.6	1249.7	1268.1	1284.8	1306.7	1330.6	1356.8	1386.2
10°	1139.6	1149.2	1169.0	1190.3	1214.1	1232.1	1254.6	1280.5	1307.6	1339.7	1375.8
12.5°	1098.1	1107.3	1131.1	1152.9	1177.5	1197.3	1223.5	1249.9	1286.0	1320.8	1361.8
15°	1017.3	1041.5	1068.6	1094.5	1123.9	1148.1	1179.7	1206.7	1241.1	1290.1	1336.9
17.5°	927.6	953.4	987.0	1027.0	1066.3	1096.3	1128.4	1162.0	1202.9	1253.0	1306.9
20°	875.3	896.2	933.4	977.9	1023.5	1065.3	1094.5	1131.7	1174.0	1228.2	1283.9
22.5°	836.1	853.8	882.9	927.4	976.6	1025.1	1062.5	1099.3	1146.1	1200.2	1260.9
25°	777.2	796.4	821.7	852.2	908.6	959.9	1008.9	1051.2	1100.7	1154.9	1222.5
27.5°	728.3	745.0	768.2	799.9	837.8	894.4	953.7	1002.0	1052.9	1110.9	1178.7
30°	699.4	713.0	732.1	764.3	800.4	851.1	911.3	967.8	1019.0	1079.3	1149.8
32.5°	669.3	683.7	702.4	727.7	766.5	809.1	869.4	931.2	985.7	1047.3	1116.4
35°	629.0	640.3	657.2	683.1	718.0	755.2	808.8	872.5	930.0	995.9	1061.8
37.5°	588.3	601.6	614.9	638.1	666.7	706.7	750.5	815.5	879.2	939.5	1003.8
40°	565.3	573.2	587.8	606.4	636.9	672.4	713.5	777.2	840.9	900.7	965.5
42.5°	539.6	548.4	560.8	579.4	606.7	641.3	681.5	736.6	803.1	861.0	919.9
45°	503.9	508.9	521.4	537.1	559.7	594.6	631.9	680.9	743.4	798.7	850.5
47.5°	467.8	472.2	480.0	494.4	519.7	547.7	582.5	626.6	681.4	736.6	780.5
50°	443.0	446.9	454.3	467.8	490.3	518.0	552.4	591.8	640.8	693.8	730.4
52.5°	418.2	420.4	427.2	442.5	461.5	488.7	519.4	555.7	601.6	645.6	682.7
55°	378.8	383.8	388.3	399.6	417.7	443.6	471.2	505.6	541.1	578.3	609.8
57.5°	337.6	343.2	349.7	359.6	373.9	398.0	422.8	450.7	481.0	511.8	538.3
60°	310.5	315.6	321.2	332.6	345.5	364.7	391.8	416.0	439.0	467.2	493.7
62.5°	284.0	289.0	295.5	304.6	317.1	335.3	357.9	379.0	403.0	427.5	447.3
65°	244.6	248.6	253.6	262.1	273.9	290.2	308.8	325.2	346.7	364.7	382.7
67.5°	201.5	209.0	215.6	222.5	232.5	247.8	261.2	276.9	291.4	304.8	321.2
70°	173.0	181.5	187.7	195.0	204.6	217.5	230.5	241.2	253.1	266.0	280.7
72.5°	149.1	155.8	160.6	168.4	177.1	189.1	201.2	210.1	219.7	228.6	242.8
75°	117.8	120.6	124.0	130.2	138.1	147.1	156.7	164.6	170.2	178.1	188.3
77.5°	84.6	90.1	92.3	96.7	102.3	108.0	114.3	121.0	126.4	129.1	137.0
80°	64.8	67.1	69.3	75.5	78.9	84.5	89.0	95.2	97.5	100.4	107.6
82.5°	50.4	51.8	53.1	54.8	56.8	62.5	66.9	70.9	73.1	74.2	79.7
85°	29.3	29.8	30.4	31.0	31.6	31.6	33.8	36.6	40.6	40.6	42.2
87.5°	10.9	11.4	11.3	10.8	11.7	11.3	11.7	11.7	13.0	14.2	15.4
90°	4.9	5.2	4.6	4.0	4.0	2.3	2.3	2.0	1.7	0.9	0.3
92.5°	76.1	91.4	80.0	58.2	35.9	21.2	15.2	11.0	7.5	4.8	3.3
95°	241.5	234.8	177.2	108.4	61.1	36.0	23.9	17.0	13.3	10.4	9.5
97.5°	303.4	247.4	165.8	97.4	58.4	39.1	28.9	23.0	19.6	17.0	17.0
100°	305.4	231.7	150.4	91.6	59.1	42.1	32.9	27.4	23.9	21.9	21.9
102.5°	288.1	212.1	140.1	90.0	61.4	46.0	37.3	32.0	28.8	27.0	26.5
105°	256.7	189.0	131.1	90.7	66.9	53.0	44.7	39.5	36.0	34.6	33.8
107.5°	231.4	176.1	129.5	95.1	73.2	60.6	52.3	47.4	43.7	42.2	41.7
110°	218.7	171.7	130.0	98.2	78.1	65.4	57.6	52.4	49.0	47.5	47.0



TEST NUMBER: P332957-930

CATALOG NUMBER: SA4XXRDIP-C1020D365U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	211.6	169.7	131.3	101.7	82.7	70.4	62.7	57.5	54.3	52.6	52.0
115°	204.9	168.6	134.0	107.2	89.9	78.4	70.6	65.1	62.2	60.3	59.4
117.5°	201.9	168.3	136.8	112.8	96.9	85.9	77.9	72.7	69.5	67.8	66.9
120°	200.2	168.3	138.9	116.7	101.7	90.7	82.7	77.8	74.6	72.6	72.1
122.5°	198.4	168.0	141.0	120.4	106.3	95.4	87.6	82.2	79.2	77.2	76.6
125°	195.3	167.7	144.1	125.9	112.7	102.3	94.2	88.8	85.6	83.8	82.7
127.5°	191.3	167.1	146.6	130.7	118.5	108.5	100.4	94.7	91.1	88.9	88.1
130°	188.7	166.8	148.4	133.7	122.5	112.7	104.3	98.8	94.5	92.2	91.1
132.5°	186.5	166.6	150.0	136.7	125.7	115.9	108.0	102.1	98.0	95.0	94.1
135°	183.0	166.2	152.5	140.6	130.2	120.7	113.2	107.2	102.3	99.4	98.2
137.5°	180.0	166.2	153.8	143.4	133.7	124.8	117.6	111.4	106.7	103.5	102.5
140°	178.4	166.0	155.0	145.2	136.0	127.3	120.4	114.4	109.5	106.3	105.5
142.5°	177.0	166.0	156.0	146.6	138.1	129.6	122.9	117.2	112.5	109.6	108.7
145°	174.6	165.4	156.5	148.1	140.3	132.8	126.5	121.0	117.0	114.1	113.2
147.5°	172.5	164.4	156.8	149.4	142.6	135.6	129.9	125.3	121.2	118.6	118.4
150°	170.9	163.6	156.8	150.1	143.8	137.5	132.0	127.7	124.2	121.9	121.6
152.5°	169.0	162.5	156.3	150.6	144.7	139.1	134.0	130.2	126.9	124.7	124.6
155°	166.2	160.8	155.6	151.0	146.1	141.2	136.9	133.7	130.9	129.1	128.8
157.5°	163.5	159.0	154.8	151.0	147.1	142.9	139.5	136.7	134.5	132.9	132.9
160°	161.3	157.6	154.2	151.0	147.6	144.1	140.9	138.6	136.6	135.4	135.4
162.5°	159.6	156.2	153.4	151.0	148.0	144.8	142.3	140.2	138.4	137.5	137.7
165°	156.5	154.2	152.1	150.4	148.1	145.5	143.8	142.4	140.9	140.3	140.3
167.5°	153.7	152.1	150.7	149.7	148.1	146.2	144.8	144.0	142.9	142.6	142.9
170°	151.9	150.7	149.9	149.3	147.8	146.3	145.5	145.0	144.1	143.8	144.1
172.5°	150.3	149.3	149.0	148.8	147.6	146.6	145.9	145.6	145.0	145.0	145.2
175°	148.4	147.8	147.8	148.1	147.2	146.7	146.7	146.3	146.1	146.1	146.3
177.5°	147.2	146.9	146.9	147.3	146.9	146.7	146.7	146.7	146.4	146.7	146.9
180°	146.7	146.7	146.7	146.7	146.7	146.7	146.7	146.7	146.7	146.7	146.7



TEST NUMBER: P332957-930

CATALOG NUMBER: SA4XXRDIP-C1020D365U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9
2.5°	1407.5	1411.5	1416.0	1424.6	1431.8	1435.0	1441.3	1445.8	1444.5	1450.7	1461.6
5°	1413.0	1428.2	1445.7	1463.7	1484.0	1500.9	1514.4	1528.0	1538.7	1551.7	1570.8
7.5°	1412.1	1439.2	1468.6	1500.9	1534.1	1562.9	1589.5	1616.6	1640.5	1666.9	1701.2
10°	1408.5	1444.5	1481.2	1523.5	1565.7	1605.7	1641.8	1675.6	1707.8	1742.1	1785.6
12.5°	1404.4	1445.9	1490.2	1541.1	1593.7	1641.8	1684.2	1732.9	1773.1	1817.5	1867.6
15°	1386.5	1442.3	1502.6	1568.6	1631.7	1696.5	1754.5	1814.3	1870.1	1923.0	1986.2
17.5°	1366.0	1430.4	1501.5	1579.4	1655.2	1734.1	1802.9	1878.2	1935.3	2006.4	2065.0
20°	1349.3	1418.6	1494.7	1582.1	1668.3	1755.7	1831.7	1908.5	1972.7	2044.3	2118.6
22.5°	1329.0	1405.1	1487.5	1578.0	1668.3	1763.8	1848.0	1924.2	2003.8	2084.4	2161.0
25°	1296.3	1375.2	1462.6	1561.8	1665.5	1763.0	1853.2	1947.8	2033.5	2120.9	2189.6
27.5°	1256.2	1339.0	1431.2	1533.5	1639.9	1739.8	1846.0	1946.9	2033.1	2117.2	2177.2
30°	1224.2	1311.6	1400.0	1503.7	1614.2	1721.3	1835.2	1936.0	2026.8	2102.3	2136.1
32.5°	1191.2	1274.1	1365.3	1470.4	1583.6	1698.8	1811.7	1914.8	1998.8	2044.1	2045.0
35°	1134.0	1211.8	1306.4	1409.7	1525.8	1650.8	1765.3	1866.7	1918.0	1921.9	1866.7
37.5°	1071.5	1142.9	1232.3	1335.5	1462.7	1587.1	1704.1	1771.6	1788.8	1731.5	1629.3
40°	1027.0	1092.8	1179.1	1285.1	1411.3	1539.8	1646.3	1695.9	1677.9	1584.9	1471.0
42.5°	980.0	1041.5	1124.5	1229.1	1355.8	1485.7	1576.5	1603.0	1555.3	1447.8	1314.6
45°	903.5	959.9	1042.1	1147.5	1269.3	1391.0	1459.8	1446.3	1366.8	1239.4	1090.1
47.5°	823.8	878.2	952.3	1049.8	1174.4	1279.5	1326.1	1285.3	1172.2	1032.1	910.6
50°	771.0	826.8	895.0	988.1	1101.9	1203.3	1233.2	1171.2	1045.5	910.8	799.2
52.5°	719.2	766.9	833.7	923.6	1032.4	1118.1	1134.0	1062.5	932.8	812.0	713.1
55°	640.3	683.7	740.0	824.6	918.7	991.4	982.9	891.1	773.3	670.2	592.4
57.5°	563.9	596.6	648.7	728.0	810.6	859.4	828.5	750.2	640.4	556.0	490.3
60°	513.5	543.9	592.4	661.7	734.4	762.0	736.1	651.0	564.2	487.0	431.7
62.5°	465.7	492.5	534.2	598.6	657.3	673.6	645.9	571.6	493.4	427.5	381.7
65°	396.2	421.0	456.6	502.2	542.7	550.7	532.6	456.6	397.4	342.1	310.5
67.5°	333.2	349.4	377.2	416.6	438.1	442.8	408.0	360.1	307.9	274.0	250.2
70°	290.8	302.1	328.0	349.4	366.9	367.5	335.3	297.0	257.0	229.4	211.9
72.5°	249.8	260.7	280.2	294.9	308.3	303.9	274.5	244.3	211.9	191.1	178.1
75°	192.7	202.4	212.5	219.2	219.2	213.6	192.2	169.7	151.1	138.7	134.7
77.5°	140.1	148.0	151.4	150.3	148.4	139.6	126.0	111.3	104.6	98.7	95.8
80°	109.9	113.3	114.4	111.6	108.2	98.1	89.0	82.8	76.6	74.4	73.3
82.5°	81.5	84.5	81.5	82.3	74.8	66.5	61.6	59.4	56.8	55.9	54.8
85°	43.4	42.8	41.7	38.9	33.8	32.7	32.1	31.6	30.4	31.0	29.8
87.5°	15.1	13.9	12.1	11.7	11.7	11.2	11.7	11.7	11.8	11.3	12.3
90°	0.9	1.7	2.0	2.3	2.3	4.0	4.0	4.6	5.2	4.9	5.2
92.5°	4.8	7.5	11.0	15.2	21.2	35.9	58.2	80.0	91.4	76.1	56.6
95°	10.4	13.3	17.0	23.9	36.0	61.1	108.4	177.2	234.8	241.5	213.5
97.5°	17.0	19.6	23.0	28.9	39.1	58.4	97.4	165.8	247.4	303.4	315.4
100°	21.9	23.9	27.4	32.9	42.1	59.1	91.6	150.4	231.7	305.4	347.5
102.5°	27.0	28.8	32.0	37.3	46.0	61.4	90.0	140.1	212.1	288.1	345.9
105°	34.6	36.0	39.5	44.7	53.0	66.9	90.7	131.1	189.0	256.7	322.7
107.5°	42.2	43.7	47.4	52.3	60.6	73.2	95.1	129.5	176.1	231.4	289.8
110°	47.5	49.0	52.4	57.6	65.4	78.1	98.2	130.0	171.7	218.7	270.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	52.6	54.3	57.5	62.7	70.4	82.7	101.7	131.3	169.7	211.6	255.4
115°	60.3	62.2	65.1	70.6	78.4	89.9	107.2	134.0	168.6	204.9	240.9
117.5°	67.8	69.5	72.7	77.9	85.9	96.9	112.8	136.8	168.3	201.9	233.7
120°	72.6	74.6	77.8	82.7	90.7	101.7	116.7	138.9	168.3	200.2	230.5
122.5°	77.2	79.2	82.2	87.6	95.4	106.3	120.4	141.0	168.0	198.4	227.7
125°	83.8	85.6	88.8	94.2	102.3	112.7	125.9	144.1	167.7	195.3	223.1
127.5°	88.9	91.1	94.7	100.4	108.5	118.5	130.7	146.6	167.1	191.3	217.3
130°	92.2	94.5	98.8	104.3	112.7	122.5	133.7	148.4	166.8	188.7	212.6
132.5°	95.0	98.0	102.1	108.0	115.9	125.7	136.7	150.0	166.6	186.5	207.8
135°	99.4	102.3	107.2	113.2	120.7	130.2	140.6	152.5	166.2	183.0	201.1
137.5°	103.5	106.7	111.4	117.6	124.8	133.7	143.4	153.8	166.2	180.0	195.1
140°	106.3	109.5	114.4	120.4	127.3	136.0	145.2	155.0	166.0	178.4	191.6
142.5°	109.6	112.5	117.2	122.9	129.6	138.1	146.6	156.0	166.0	177.0	188.4
145°	114.1	117.0	121.0	126.5	132.8	140.3	148.1	156.5	165.4	174.6	183.8
147.5°	118.6	121.2	125.3	129.9	135.6	142.6	149.4	156.8	164.4	172.5	180.1
150°	121.9	124.2	127.7	132.0	137.5	143.8	150.1	156.8	163.6	170.9	177.8
152.5°	124.7	126.9	130.2	134.0	139.1	144.7	150.6	156.3	162.5	169.0	175.3
155°	129.1	130.9	133.7	136.9	141.2	146.1	151.0	155.6	160.8	166.2	171.5
157.5°	132.9	134.5	136.7	139.5	142.9	147.1	151.0	154.8	159.0	163.5	167.4
160°	135.4	136.6	138.6	140.9	144.1	147.6	151.0	154.2	157.6	161.3	164.9
162.5°	137.5	138.4	140.2	142.3	144.8	148.0	151.0	153.4	156.2	159.6	162.3
165°	140.3	140.9	142.4	143.8	145.5	148.1	150.4	152.1	154.2	156.5	158.7
167.5°	142.6	142.9	144.0	144.8	146.2	148.1	149.7	150.7	152.1	153.7	155.4
170°	143.8	144.1	145.0	145.5	146.3	147.8	149.3	149.9	150.7	151.9	153.3
172.5°	145.0	145.0	145.6	145.9	146.6	147.6	148.8	149.0	149.3	150.3	151.5
175°	146.1	146.1	146.3	146.7	146.7	147.2	148.1	147.8	147.8	148.4	149.0
177.5°	146.7	146.4	146.7	146.7	146.7	146.9	147.3	146.9	146.9	147.2	147.3
180°	146.7	146.7	146.7	146.7	146.7	146.7	146.7	146.7	146.7	146.7	146.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9	1398.9
2.5°	1467.5	1469.3	1470.6	1475.1	1475.5	1479.6	1475.5
5°	1588.9	1596.8	1609.2	1621.5	1622.7	1630.5	1616.5
7.5°	1725.0	1743.3	1754.7	1774.7	1782.7	1787.5	1779.5
10°	1818.8	1835.7	1865.6	1880.2	1894.9	1897.1	1890.4
12.5°	1909.4	1936.3	1959.8	1987.5	1986.9	2006.7	1999.5
15°	2030.2	2057.8	2090.4	2121.5	2132.7	2132.7	2141.8
17.5°	2116.3	2166.9	2200.7	2225.0	2251.7	2256.3	2253.2
20°	2174.5	2229.1	2265.2	2296.8	2314.8	2319.9	2319.9
22.5°	2217.7	2264.2	2299.5	2327.8	2342.8	2348.7	2346.9
25°	2247.7	2287.7	2309.2	2317.6	2321.6	2320.4	2309.7
27.5°	2206.7	2204.9	2191.4	2165.4	2145.9	2134.1	2120.6
30°	2128.3	2098.9	2065.1	2027.9	1980.0	1943.3	1932.1
32.5°	2011.4	1945.6	1888.3	1826.4	1774.8	1738.2	1722.9
35°	1785.6	1681.3	1596.2	1521.8	1467.7	1433.9	1422.6
37.5°	1517.5	1416.6	1311.2	1239.1	1194.2	1160.0	1147.3
40°	1347.0	1237.1	1145.3	1077.7	1031.4	998.2	997.6
42.5°	1191.5	1086.5	1000.1	951.4	901.6	879.5	879.5
45°	975.6	891.6	818.4	780.1	750.2	732.1	727.1
47.5°	807.8	738.3	689.5	659.0	634.6	623.1	615.7
50°	713.5	652.6	613.8	587.3	573.7	559.1	558.0
52.5°	635.1	586.0	555.6	534.1	517.0	508.2	508.4
55°	533.8	494.9	473.4	457.1	443.6	436.8	434.0
57.5°	449.6	420.4	404.9	389.9	384.2	378.9	377.4
60°	397.4	377.6	363.0	351.1	342.7	341.0	340.4
62.5°	354.1	333.5	323.3	314.1	307.9	305.3	304.4
65°	292.0	276.7	267.7	260.4	258.1	254.2	253.6
67.5°	235.4	226.2	220.3	215.2	212.1	211.9	211.9
70°	200.6	195.6	190.5	187.7	186.0	184.8	184.8
72.5°	170.9	167.1	163.0	161.5	161.2	160.0	159.6
75°	130.2	126.3	126.8	124.0	121.7	119.0	117.2
77.5°	92.3	89.5	88.9	88.6	86.7	86.3	87.2
80°	71.6	68.7	68.2	68.7	68.2	66.5	66.5
82.5°	54.5	52.1	51.5	51.2	50.6	51.2	50.3
85°	29.3	28.2	28.2	28.2	29.3	28.8	28.2
87.5°	11.5	11.1	11.5	11.2	11.2	10.7	11.2
90°	5.5	5.8	5.8	6.0	6.4	6.0	6.0
92.5°	42.6	33.9	28.1	24.7	23.2	22.2	22.2
95°	168.8	130.2	102.3	88.1	79.2	74.0	70.3
97.5°	298.9	270.7	240.6	219.9	202.6	194.0	187.9
100°	353.3	339.2	317.8	292.8	275.2	266.5	264.2
102.5°	374.5	378.5	369.7	354.3	341.6	332.5	330.6
105°	372.6	401.1	412.9	413.5	411.2	407.2	405.4
107.5°	342.9	383.0	408.8	423.0	429.6	432.4	433.2
110°	319.8	361.7	393.3	413.8	425.9	431.0	433.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	299.5	339.0	370.7	394.0	408.6	415.9	420.0
115°	276.3	310.1	337.7	360.4	377.7	387.0	389.3
117.5°	263.1	289.6	313.1	332.5	347.0	356.3	358.1
120°	257.3	280.4	300.8	317.2	330.0	337.5	340.6
122.5°	253.6	274.6	292.5	306.4	317.2	323.6	326.8
125°	247.8	267.7	283.6	295.1	303.5	308.9	310.6
127.5°	240.9	260.8	275.8	287.4	294.8	299.5	301.2
130°	235.5	255.0	270.3	282.1	289.3	293.9	295.6
132.5°	229.2	248.3	263.6	275.2	283.3	287.7	289.4
135°	219.9	237.4	251.8	263.3	271.4	276.1	277.8
137.5°	210.9	225.8	238.7	249.6	257.5	261.3	263.3
140°	205.1	218.1	230.2	240.4	246.6	250.7	253.0
142.5°	200.3	211.4	221.9	230.9	236.8	240.4	241.9
145°	193.6	202.3	210.3	217.5	222.4	225.3	226.7
147.5°	187.8	194.8	201.1	206.4	210.7	212.8	213.4
150°	184.4	190.2	195.3	200.0	203.7	205.5	205.7
152.5°	181.0	186.3	190.5	194.4	197.5	198.5	198.9
155°	176.0	180.3	183.8	186.7	189.0	189.9	189.9
157.5°	171.2	174.9	177.7	179.8	181.6	182.1	182.1
160°	168.0	171.1	173.5	175.2	176.9	177.2	177.2
162.5°	165.0	167.5	169.6	170.8	172.5	172.8	172.6
165°	160.5	162.5	164.0	165.1	166.2	166.0	165.7
167.5°	156.7	158.3	159.1	159.7	160.5	160.5	160.2
170°	154.2	155.3	156.2	156.8	157.0	156.8	156.8
172.5°	152.1	152.8	153.4	153.8	154.0	153.8	153.3
175°	149.3	149.9	149.9	149.9	150.4	149.9	149.3
177.5°	147.6	147.6	147.8	147.6	147.8	147.3	146.9
180°	146.7	146.7	146.7	146.7	146.7	146.7	146.7

(END OF REPORT)