

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: P332627-930

Luminaire Tested: **SA4XXDIP-C1020D365U930-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332627-930
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: SA4XXDIP-C1020D365U930-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1020 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

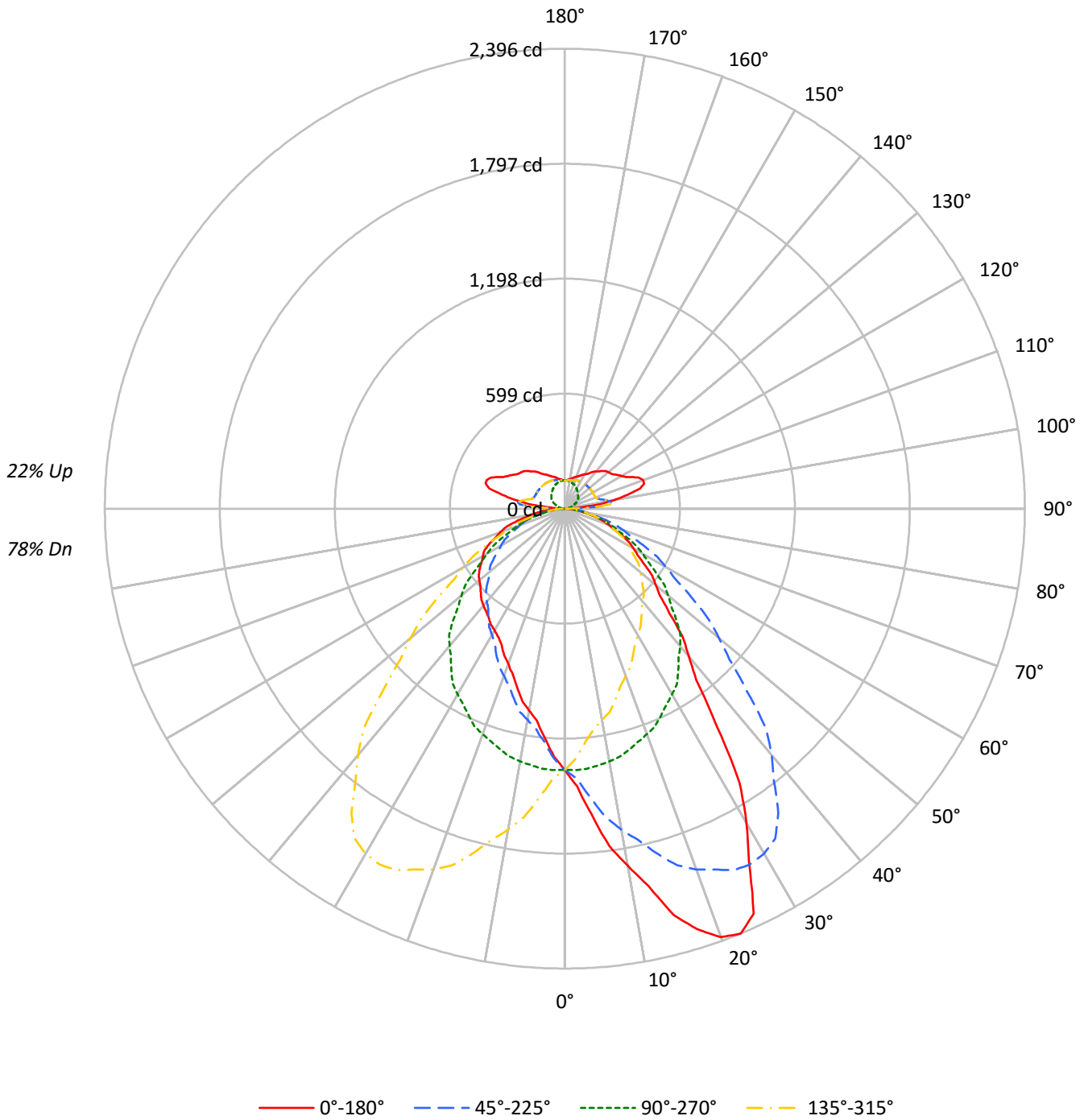
Lumens per Lamp: N/A
Luminaire Lumens: 4821.4 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 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	50	30	10	0	
RCR																						
0	114	114	114	114	109	109	109	109	99	99	99	90	90	90	82	82	82	78				
1	104	100	96	92	99	96	92	89	87	85	82	80	78	76	73	71	70	66				
2	95	88	82	76	91	84	78	74	77	73	69	71	67	64	65	62	59	56				
3	87	78	70	64	83	74	68	62	68	63	58	63	58	54	58	54	51	48				
4	80	69	61	55	76	66	59	53	61	55	50	56	51	47	52	48	44	41				
5	74	62	53	47	70	59	52	46	55	48	44	51	45	41	47	42	39	36				
6	68	56	47	41	65	54	46	40	50	43	38	46	40	36	43	38	34	32				
7	63	51	42	37	60	49	41	36	45	39	34	42	36	32	39	34	31	28				
8	59	46	38	33	56	45	37	32	41	35	30	39	33	29	36	31	28	25				
9	55	42	35	29	52	41	34	29	38	32	27	36	30	26	33	28	25	23				
10	52	39	32	27	49	38	31	26	35	29	25	33	28	24	31	26	23	21				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10984	10984	10984	10984
5°	12935	11012	9720	11012
10°	15488	10964	8751	10964
15°	18324	10853	8037	10853
20°	20405	10740	7399	10740
25°	20735	10573	6959	10573
30°	17643	10413	6820	10413
35°	13565	10154	6821	10154
40°	10572	9848	6949	9848
45°	8816	9388	7066	9388
50°	7759	8828	7304	8828
55°	7108	8155	7600	8155
60°	6660	7553	7953	7553
65°	6202	6879	8246	6879
70°	5667	6212	8434	6212
75°	5062	5468	8334	5468
80°	4245	4482	8071	4482
85°	3131	3242	7725	3242



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.5	2.7
10°-20°	408.6	8.5
20°-30°	647.9	13.4
30°-40°	721.0	15.0
40°-50°	656.3	13.6
50°-60°	536.3	11.1
60°-70°	382.9	7.9
70°-80°	210.8	4.4
80°-90°	58.4	1.2
90°-100°	105.9	2.2
100°-110°	220.5	4.6
110°-120°	197.5	4.1
120°-130°	166.1	3.4
130°-140°	138.5	2.9
140°-150°	105.8	2.2
150°-160°	74.4	1.5
160°-170°	43.7	0.9
170°-180°	14.2	0.3
0°-30°	1189.0	24.7
0°-40°	1910.0	39.6
0°-60°	3102.6	64.4
0°-90°	3754.7	77.9
90°-120°	523.9	10.9
90°-150°	934.3	19.4
90°-180°	1067.0	22.1
0°-180°	4821.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1361	1361	1361	1361	1361	
5°	1596	1359	1199	1359	1596	162
15°	2192	1299	962	1299	2192	619
25°	2328	1187	781	1187	2328	1026
35°	1376	1030	692	1030	1376	874
45°	772	822	619	822	772	608
55°	505	579	540	579	505	456
65°	325	360	432	360	325	321
75°	162	175	267	175	162	173
85°	34	35	83	35	34	41
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°	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6
2.5°	1448.1	1447.6	1443.1	1442.2	1439.0	1435.0	1434.1	1426.9	1412.4	1405.7	1403.9
5°	1596.2	1607.4	1592.8	1590.0	1588.3	1569.7	1560.1	1548.8	1522.9	1507.7	1495.8
7.5°	1772.9	1774.3	1767.9	1762.7	1748.3	1732.1	1707.8	1681.9	1651.0	1618.9	1594.6
10°	1889.3	1893.8	1886.4	1885.3	1856.6	1838.5	1802.5	1772.1	1737.1	1698.2	1662.7
12.5°	2011.9	2005.6	2001.9	1977.8	1972.5	1939.5	1897.6	1866.3	1812.4	1767.7	1720.4
15°	2192.5	2180.1	2172.2	2138.9	2122.6	2077.0	2032.4	1998.1	1927.6	1860.5	1809.8
17.5°	2298.4	2310.9	2292.6	2278.9	2236.7	2204.7	2159.2	2087.0	2031.9	1948.6	1884.6
20°	2375.1	2376.2	2366.1	2352.0	2318.7	2278.2	2228.5	2149.6	2083.7	2000.8	1912.9
22.5°	2395.8	2396.1	2391.8	2378.6	2353.4	2320.5	2270.5	2204.7	2124.8	2034.7	1946.8
25°	2327.8	2325.5	2330.6	2345.2	2335.7	2325.5	2296.8	2247.7	2173.3	2078.0	1983.4
27.5°	2074.8	2090.3	2119.0	2155.1	2189.8	2216.3	2223.7	2213.7	2167.6	2089.2	1990.1
30°	1892.6	1911.8	1933.2	1969.3	2039.1	2079.2	2123.2	2156.4	2137.8	2075.3	1982.8
32.5°	1692.5	1697.2	1729.0	1770.0	1834.0	1911.0	1980.7	2048.2	2070.6	2037.8	1960.7
35°	1376.4	1384.2	1418.6	1459.2	1537.6	1631.7	1736.5	1830.1	1907.3	1938.3	1898.8
37.5°	1123.2	1145.8	1170.1	1213.7	1282.7	1367.4	1476.3	1597.4	1712.5	1789.6	1802.7
40°	1003.2	1017.3	1034.8	1068.0	1126.7	1210.1	1303.7	1442.3	1564.6	1675.1	1711.2
42.5°	908.6	916.8	927.5	957.6	1002.2	1085.2	1170.6	1292.6	1415.4	1547.4	1607.9
45°	772.2	780.6	798.7	816.1	849.9	907.4	986.9	1087.2	1210.6	1338.1	1449.6
47.5°	673.6	679.1	689.7	708.5	737.2	775.1	839.8	923.6	1038.0	1161.6	1280.5
50°	617.8	622.2	630.7	647.6	669.6	703.4	756.4	834.7	924.3	1048.9	1165.6
52.5°	573.6	575.4	581.6	593.0	610.5	639.0	682.4	747.2	830.5	941.6	1057.8
55°	505.0	507.3	512.9	521.4	536.5	554.6	587.8	636.3	709.1	805.4	906.3
57.5°	448.7	450.2	454.9	458.2	470.8	485.4	510.9	545.6	600.7	682.4	772.5
60°	412.5	411.5	417.1	419.9	428.4	440.8	460.5	493.7	541.6	607.6	690.4
62.5°	377.4	375.9	380.6	384.3	389.1	399.7	415.8	441.9	480.8	540.4	612.0
65°	324.7	322.4	325.2	329.7	334.2	339.9	351.7	374.8	405.8	448.7	503.3
67.5°	271.7	274.0	274.5	276.7	279.3	287.0	295.1	311.4	333.3	367.6	413.9
70°	240.1	240.7	243.0	243.0	244.6	251.4	258.1	267.7	289.1	320.7	358.5
72.5°	208.6	210.9	210.0	211.8	213.0	217.5	222.5	231.6	249.9	273.4	305.2
75°	162.3	164.0	164.0	164.6	166.2	168.0	171.9	178.6	191.6	209.1	231.1
77.5°	118.4	118.6	119.4	121.4	121.4	124.1	127.0	132.5	138.8	150.8	164.2
80°	91.3	92.5	91.9	93.0	93.0	95.2	96.4	103.1	106.0	113.8	124.6
82.5°	66.9	68.1	68.0	69.5	70.4	70.9	72.5	75.2	78.0	85.0	89.4
85°	33.8	35.0	33.8	35.0	36.6	37.2	38.9	39.5	41.7	43.4	47.4
87.5°	11.2	12.5	12.6	13.0	13.8	14.3	14.6	14.1	15.9	16.4	18.0
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°	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6
2.5°	1404.4	1398.0	1393.5	1389.9	1380.0	1374.1	1369.6	1363.3	1356.1	1348.4	1339.0
5°	1484.0	1464.8	1450.7	1429.4	1409.1	1392.1	1374.7	1358.9	1339.7	1318.9	1303.7
7.5°	1567.7	1539.3	1502.8	1471.0	1435.4	1404.4	1376.7	1348.3	1318.7	1290.1	1263.9
10°	1621.0	1584.4	1543.8	1495.8	1450.7	1410.7	1373.5	1337.5	1302.5	1267.5	1237.7
12.5°	1678.2	1632.6	1572.6	1516.6	1466.1	1412.6	1367.7	1323.5	1281.3	1244.6	1209.7
15°	1755.1	1689.1	1619.8	1544.9	1478.4	1415.8	1354.4	1298.6	1251.2	1202.7	1169.0
17.5°	1802.4	1720.8	1641.5	1563.2	1482.6	1403.8	1337.5	1273.1	1213.8	1165.7	1123.1
20°	1833.4	1752.3	1653.7	1575.3	1479.5	1398.3	1321.7	1250.1	1188.1	1136.9	1092.8
22.5°	1860.5	1766.8	1668.1	1565.0	1469.6	1383.5	1299.6	1227.6	1164.2	1110.2	1068.0
25°	1875.2	1767.5	1660.4	1557.9	1449.6	1347.6	1271.5	1187.0	1119.3	1062.4	1017.3
27.5°	1876.7	1761.6	1640.5	1526.5	1414.8	1319.8	1223.8	1148.2	1078.0	1017.8	974.5
30°	1871.8	1751.8	1621.5	1498.1	1385.9	1282.8	1199.4	1117.1	1045.5	985.8	940.7
32.5°	1856.0	1731.0	1597.2	1466.6	1350.3	1249.4	1163.4	1085.1	1015.3	956.4	909.1
35°	1810.4	1686.9	1544.3	1408.5	1289.6	1187.6	1109.8	1030.3	960.4	904.6	859.0
37.5°	1739.0	1627.4	1482.5	1341.9	1225.1	1122.6	1045.5	973.7	910.7	854.0	807.2
40°	1676.7	1578.7	1433.3	1296.3	1170.1	1072.6	1000.5	934.5	872.0	818.4	773.9
42.5°	1605.1	1519.6	1385.5	1240.4	1118.7	1020.8	950.4	891.2	832.3	782.8	738.3
45°	1477.2	1420.9	1294.6	1160.5	1033.7	941.3	874.2	822.3	772.7	724.2	687.1
47.5°	1330.2	1302.3	1196.0	1068.6	948.3	857.1	799.0	751.1	707.6	666.5	633.7
50°	1231.5	1218.0	1126.1	1003.2	888.3	802.6	744.0	702.9	665.6	629.6	598.6
52.5°	1134.1	1133.7	1050.8	938.3	831.9	749.4	691.2	652.8	620.5	591.3	563.4
55°	985.2	1001.0	936.2	835.8	740.6	666.2	613.8	579.4	556.8	532.6	511.8
57.5°	848.5	874.7	821.2	732.8	653.4	584.8	539.2	513.3	489.3	474.7	459.5
60°	759.2	784.0	742.3	667.9	593.0	534.3	490.9	467.8	446.9	436.8	426.1
62.5°	679.9	702.0	671.1	602.1	537.0	480.6	444.0	421.8	407.7	396.6	389.6
65°	566.5	585.1	558.6	508.4	452.6	407.5	377.6	360.1	346.7	342.1	334.2
67.5°	457.9	474.8	460.5	417.8	373.1	339.0	315.6	298.8	290.8	286.9	281.3
70°	393.4	410.3	395.1	357.9	323.5	294.8	272.8	263.2	254.8	253.1	245.2
72.5°	338.8	350.3	335.2	306.1	276.6	252.4	235.4	225.3	220.9	217.9	213.6
75°	254.2	264.3	254.2	231.6	210.8	193.9	179.2	175.3	170.2	168.5	165.7
77.5°	179.9	188.7	180.9	166.8	151.2	138.2	130.3	125.2	124.1	121.2	122.5
80°	137.5	143.2	135.8	126.3	113.8	104.8	99.2	96.4	93.0	91.9	94.1
82.5°	98.7	101.3	97.5	91.1	81.9	76.0	72.2	68.9	68.2	68.4	68.4
85°	51.3	50.7	50.1	44.5	41.7	37.7	35.5	35.0	34.4	35.5	36.6
87.5°	17.9	18.4	17.6	15.8	14.3	13.0	12.3	11.7	12.3	13.0	13.5
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: P332627-930

CATALOG NUMBER: SA4XXDIP-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: P332627-930

CATALOG NUMBER: SA4XXDIP-C1020D365U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6
2.5°	1334.4	1330.4	1324.5	1316.4	1309.6	1302.4	1300.6	1297.9	1303.3	1298.8	1297.5
5°	1290.7	1278.9	1263.6	1246.2	1236.0	1221.4	1218.5	1212.9	1207.3	1206.7	1201.1
7.5°	1244.4	1227.0	1207.1	1189.3	1172.8	1156.7	1146.3	1144.0	1135.7	1130.8	1125.2
10°	1214.6	1193.2	1170.1	1153.2	1134.0	1117.1	1105.3	1098.5	1092.8	1086.6	1081.0
12.5°	1179.4	1156.7	1137.6	1119.3	1096.6	1083.7	1064.2	1052.5	1051.4	1051.5	1036.8
15°	1138.5	1116.0	1086.6	1060.7	1048.3	1023.5	1012.8	999.3	990.8	982.4	975.7
17.5°	1091.8	1063.6	1040.8	1011.1	987.3	967.6	953.6	945.4	932.7	920.7	912.1
20°	1062.4	1032.6	1008.3	976.7	950.8	926.6	914.8	903.5	893.9	883.8	874.2
22.5°	1032.7	1001.4	971.8	941.1	917.0	891.4	880.0	864.7	855.6	849.9	840.3
25°	985.8	951.9	918.1	888.8	864.1	841.5	826.3	814.4	804.3	799.8	793.6
27.5°	934.8	901.2	868.5	835.3	807.1	790.8	778.6	769.6	763.9	757.8	755.0
30°	902.4	867.4	832.5	801.4	775.5	759.2	748.0	741.8	737.2	734.4	731.6
32.5°	869.4	834.9	798.2	769.9	746.7	732.1	723.6	717.4	715.1	714.1	713.1
35°	816.7	781.7	748.0	722.6	700.6	695.0	687.6	684.2	683.1	687.1	688.8
37.5°	765.6	733.2	702.1	677.4	663.1	654.8	652.3	652.5	656.5	660.0	664.1
40°	732.7	701.2	671.8	650.4	636.9	631.9	630.7	633.5	638.1	642.0	646.5
42.5°	700.7	669.6	642.9	622.9	613.4	608.8	609.5	612.3	618.6	623.5	630.2
45°	651.0	625.1	599.2	582.8	574.9	576.0	576.0	581.1	587.3	594.6	601.9
47.5°	604.2	578.0	556.8	543.0	538.9	537.9	541.1	547.7	556.6	565.7	575.9
50°	572.7	547.8	529.2	516.8	512.3	514.0	518.5	524.7	535.4	546.7	557.4
52.5°	540.6	518.0	500.8	489.3	486.2	489.3	493.7	503.5	512.9	525.1	538.0
55°	490.9	471.7	458.2	449.8	448.7	450.4	455.4	466.1	479.6	494.9	507.3
57.5°	441.4	425.4	413.0	407.2	407.7	409.3	417.7	430.4	444.8	461.1	477.0
60°	408.1	393.4	383.3	378.8	379.3	382.7	392.8	404.7	422.7	438.5	455.4
62.5°	376.5	363.6	353.9	349.9	349.1	356.5	366.2	378.5	396.6	414.2	432.4
65°	325.8	315.6	307.8	305.5	307.2	312.8	325.2	341.5	356.8	375.4	394.5
67.5°	276.1	267.8	262.4	263.4	265.5	273.8	284.2	298.2	315.5	334.8	353.8
70°	244.6	236.7	232.2	232.8	236.2	246.3	255.4	269.4	288.0	307.8	323.5
72.5°	212.1	206.9	202.9	205.3	208.6	215.6	226.9	241.0	257.4	275.7	292.4
75°	162.9	162.9	160.6	162.3	167.4	174.1	182.6	197.3	213.6	228.3	241.8
77.5°	120.8	119.6	121.1	123.1	126.0	134.0	143.7	154.2	166.5	181.2	192.3
80°	92.5	93.0	95.8	99.2	100.4	106.6	116.7	126.3	135.8	148.2	158.9
82.5°	69.5	70.0	71.5	75.7	76.9	83.6	90.1	99.6	108.4	116.7	125.6
85°	37.7	37.7	40.6	42.2	45.1	49.6	53.6	59.2	67.1	72.7	81.1
87.5°	14.9	14.9	17.0	17.9	19.4	21.8	22.6	27.6	29.5	31.8	35.9
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: P332627-930

CATALOG NUMBER: SA4XXDIP-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: P332627-930

CATALOG NUMBER: SA4XXDIP-C1020D365U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6
2.5°	1296.6	1295.7	1292.5	1292.1	1292.5	1295.7	1296.6	1297.5	1298.8	1303.3	1297.9
5°	1197.7	1194.9	1193.2	1199.4	1193.2	1194.9	1197.7	1201.1	1206.7	1207.3	1212.9
7.5°	1123.2	1121.0	1116.0	1114.4	1116.0	1121.0	1123.2	1125.2	1130.8	1135.7	1144.0
10°	1075.4	1073.1	1068.6	1067.5	1068.6	1073.1	1075.4	1081.0	1086.6	1092.8	1098.5
12.5°	1029.4	1024.9	1024.0	1025.1	1024.0	1024.9	1029.4	1036.8	1051.5	1051.4	1052.5
15°	968.3	966.0	959.9	961.6	959.9	966.0	968.3	975.7	982.4	990.8	999.3
17.5°	908.1	905.4	897.9	904.5	897.9	905.4	908.1	912.1	920.7	932.7	945.4
20°	870.3	865.7	861.8	861.2	861.8	865.7	870.3	874.2	883.8	893.9	903.5
22.5°	834.1	830.1	829.7	826.1	829.7	830.1	834.1	840.3	849.9	855.6	864.7
25°	789.0	785.1	784.0	781.2	784.0	785.1	789.0	793.6	799.8	804.3	814.4
27.5°	754.5	752.5	750.5	751.4	750.5	752.5	754.5	755.0	757.8	763.9	769.6
30°	733.3	732.7	731.6	731.6	731.6	732.7	733.3	731.6	734.4	737.2	741.8
32.5°	715.7	715.6	716.2	716.2	716.2	715.6	715.7	713.1	714.1	715.1	717.4
35°	691.0	692.7	693.8	692.1	693.8	692.7	691.0	688.8	687.1	683.1	684.2
37.5°	668.7	670.3	672.0	673.8	672.0	670.3	668.7	664.1	660.0	656.5	652.5
40°	651.5	655.5	656.6	659.4	656.6	655.5	651.5	646.5	642.0	638.1	633.5
42.5°	635.3	639.7	642.6	643.2	642.6	639.7	635.3	630.2	623.5	618.6	612.3
45°	610.4	614.9	618.9	618.9	618.9	614.9	610.4	601.9	594.6	587.3	581.1
47.5°	584.6	591.1	595.1	596.1	595.1	591.1	584.6	575.9	565.7	556.6	547.7
50°	567.0	574.9	578.9	581.6	578.9	574.9	567.0	557.4	546.7	535.4	524.7
52.5°	549.8	557.7	563.0	564.5	563.0	557.7	549.8	538.0	525.1	512.9	503.5
55°	520.2	531.5	537.7	540.0	537.7	531.5	520.2	507.3	494.9	479.6	466.1
57.5°	492.3	502.6	509.9	511.5	509.9	502.6	492.3	477.0	461.1	444.8	430.4
60°	470.6	481.9	490.9	492.6	490.9	481.9	470.6	455.4	438.5	422.7	404.7
62.5°	448.5	460.2	468.4	472.8	468.4	460.2	448.5	432.4	414.2	396.6	378.5
65°	410.3	422.2	430.1	431.7	430.1	422.2	410.3	394.5	375.4	356.8	341.5
67.5°	368.6	380.4	385.6	388.9	385.6	380.4	368.6	353.8	334.8	315.5	298.2
70°	339.3	348.9	354.5	357.3	354.5	348.9	339.3	323.5	307.8	288.0	269.4
72.5°	305.9	315.9	322.5	323.1	322.5	315.9	305.9	292.4	275.7	257.4	241.0
75°	254.8	263.7	267.2	267.2	267.2	263.7	254.8	241.8	228.3	213.6	197.3
77.5°	201.6	206.3	210.6	211.5	210.6	206.3	201.6	192.3	181.2	166.5	154.2
80°	167.4	170.2	173.6	173.6	173.6	170.2	167.4	158.9	148.2	135.8	126.3
82.5°	132.2	134.6	137.9	137.5	137.9	134.6	132.2	125.6	116.7	108.4	99.6
85°	80.1	85.1	84.5	83.4	84.5	85.1	80.1	81.1	72.7	67.1	59.2
87.5°	37.3	37.8	39.1	39.9	39.1	37.8	37.3	35.9	31.8	29.5	27.6
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: P332627-930

CATALOG NUMBER: SA4XXDIP-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: P332627-930

CATALOG NUMBER: SA4XXDIP-C1020D365U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6
2.5°	1300.6	1302.4	1309.6	1316.4	1324.5	1330.4	1334.4	1339.0	1348.4	1356.1	1363.3
5°	1218.5	1221.4	1236.0	1246.2	1263.6	1278.9	1290.7	1303.7	1318.9	1339.7	1358.9
7.5°	1146.3	1156.7	1172.8	1189.3	1207.1	1227.0	1244.4	1263.9	1290.1	1318.7	1348.3
10°	1105.3	1117.1	1134.0	1153.2	1170.1	1193.2	1214.6	1237.7	1267.5	1302.5	1337.5
12.5°	1064.2	1083.7	1096.6	1119.3	1137.6	1156.7	1179.4	1209.7	1244.6	1281.3	1323.5
15°	1012.8	1023.5	1048.3	1060.7	1086.6	1116.0	1138.5	1169.0	1202.7	1251.2	1298.6
17.5°	953.6	967.6	987.3	1011.1	1040.8	1063.6	1091.8	1123.1	1165.7	1213.8	1273.1
20°	914.8	926.6	950.8	976.7	1008.3	1032.6	1062.4	1092.8	1136.9	1188.1	1250.1
22.5°	880.0	891.4	917.0	941.1	971.8	1001.4	1032.7	1068.0	1110.2	1164.2	1227.6
25°	826.3	841.5	864.1	888.8	918.1	951.9	985.8	1017.3	1062.4	1119.3	1187.0
27.5°	778.6	790.8	807.1	835.3	868.5	901.2	934.8	974.5	1017.8	1078.0	1148.2
30°	748.0	759.2	775.5	801.4	832.5	867.4	902.4	940.7	985.8	1045.5	1117.1
32.5°	723.6	732.1	746.7	769.9	798.2	834.9	869.4	909.1	956.4	1015.3	1085.1
35°	687.6	695.0	700.6	722.6	748.0	781.7	816.7	859.0	904.6	960.4	1030.3
37.5°	652.3	654.8	663.1	677.4	702.1	733.2	765.6	807.2	854.0	910.7	973.7
40°	630.7	631.9	636.9	650.4	671.8	701.2	732.7	773.9	818.4	872.0	934.5
42.5°	609.5	608.8	613.4	622.9	642.9	669.6	700.7	738.3	782.8	832.3	891.2
45°	576.0	576.0	574.9	582.8	599.2	625.1	651.0	687.1	724.2	772.7	822.3
47.5°	541.1	537.9	538.9	543.0	556.8	578.0	604.2	633.7	666.5	707.6	751.1
50°	518.5	514.0	512.3	516.8	529.2	547.8	572.7	598.6	629.6	665.6	702.9
52.5°	493.7	489.3	486.2	489.3	500.8	518.0	540.6	563.4	591.3	620.5	652.8
55°	455.4	450.4	448.7	449.8	458.2	471.7	490.9	511.8	532.6	556.8	579.4
57.5°	417.7	409.3	407.7	407.2	413.0	425.4	441.4	459.5	474.7	489.3	513.3
60°	392.8	382.7	379.3	378.8	383.3	393.4	408.1	426.1	436.8	446.9	467.8
62.5°	366.2	356.5	349.1	349.9	353.9	363.6	376.5	389.6	396.6	407.7	421.8
65°	325.2	312.8	307.2	305.5	307.8	315.6	325.8	334.2	342.1	346.7	360.1
67.5°	284.2	273.8	265.5	263.4	262.4	267.8	276.1	281.3	286.9	290.8	298.8
70°	255.4	246.3	236.2	232.8	232.2	236.7	244.6	245.2	253.1	254.8	263.2
72.5°	226.9	215.6	208.6	205.3	202.9	206.9	212.1	213.6	217.9	220.9	225.3
75°	182.6	174.1	167.4	162.3	160.6	162.9	162.9	165.7	168.5	170.2	175.3
77.5°	143.7	134.0	126.0	123.1	121.1	119.6	120.8	122.5	121.2	124.1	125.2
80°	116.7	106.6	100.4	99.2	95.8	93.0	92.5	94.1	91.9	93.0	96.4
82.5°	90.1	83.6	76.9	75.7	71.5	70.0	69.5	68.4	68.4	68.2	68.9
85°	53.6	49.6	45.1	42.2	40.6	37.7	37.7	36.6	35.5	34.4	35.0
87.5°	22.6	21.8	19.4	17.9	17.0	14.9	14.9	13.5	13.0	12.3	11.7
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: P332627-930

CATALOG NUMBER: SA4XXDIP-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: P332627-930

CATALOG NUMBER: SA4XXDIP-C1020D365U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6
2.5°	1369.6	1374.1	1380.0	1389.9	1393.5	1398.0	1404.4	1403.9	1405.7	1412.4	1426.9
5°	1374.7	1392.1	1409.1	1429.4	1450.7	1464.8	1484.0	1495.8	1507.7	1522.9	1548.8
7.5°	1376.7	1404.4	1435.4	1471.0	1502.8	1539.3	1567.7	1594.6	1618.9	1651.0	1681.9
10°	1373.5	1410.7	1450.7	1495.8	1543.8	1584.4	1621.0	1662.7	1698.2	1737.1	1772.1
12.5°	1367.7	1412.6	1466.1	1516.6	1572.6	1632.6	1678.2	1720.4	1767.7	1812.4	1866.3
15°	1354.4	1415.8	1478.4	1544.9	1619.8	1689.1	1755.1	1809.8	1860.5	1927.6	1998.1
17.5°	1337.5	1403.8	1482.6	1563.2	1641.5	1720.8	1802.4	1884.6	1948.6	2031.9	2087.0
20°	1321.7	1398.3	1479.5	1575.3	1653.7	1752.3	1833.4	1912.9	2000.8	2083.7	2149.6
22.5°	1299.6	1383.5	1469.6	1565.0	1668.1	1766.8	1860.5	1946.8	2034.7	2124.8	2204.7
25°	1271.5	1347.6	1449.6	1557.9	1660.4	1767.5	1875.2	1983.4	2078.0	2173.3	2247.7
27.5°	1223.8	1319.8	1414.8	1526.5	1640.5	1761.6	1876.7	1990.1	2089.2	2167.6	2213.7
30°	1199.4	1282.8	1385.9	1498.1	1621.5	1751.8	1871.8	1982.8	2075.3	2137.8	2156.4
32.5°	1163.4	1249.4	1350.3	1466.6	1597.2	1731.0	1856.0	1960.7	2037.8	2070.6	2048.2
35°	1109.8	1187.6	1289.6	1408.5	1544.3	1686.9	1810.4	1898.8	1938.3	1907.3	1830.1
37.5°	1045.5	1122.6	1225.1	1341.9	1482.5	1627.4	1739.0	1802.7	1789.6	1712.5	1597.4
40°	1000.5	1072.6	1170.1	1296.3	1433.3	1578.7	1676.7	1711.2	1675.1	1564.6	1442.3
42.5°	950.4	1020.8	1118.7	1240.4	1385.5	1519.6	1605.1	1607.9	1547.4	1415.4	1292.6
45°	874.2	941.3	1033.7	1160.5	1294.6	1420.9	1477.2	1449.6	1338.1	1210.6	1087.2
47.5°	799.0	857.1	948.3	1068.6	1196.0	1302.3	1330.2	1280.5	1161.6	1038.0	923.6
50°	744.0	802.6	888.3	1003.2	1126.1	1218.0	1231.5	1165.6	1048.9	924.3	834.7
52.5°	691.2	749.4	831.9	938.3	1050.8	1133.7	1134.1	1057.8	941.6	830.5	747.2
55°	613.8	666.2	740.6	835.8	936.2	1001.0	985.2	906.3	805.4	709.1	636.3
57.5°	539.2	584.8	653.4	732.8	821.2	874.7	848.5	772.5	682.4	600.7	545.6
60°	490.9	534.3	593.0	667.9	742.3	784.0	759.2	690.4	607.6	541.6	493.7
62.5°	444.0	480.6	537.0	602.1	671.1	702.0	679.9	612.0	540.4	480.8	441.9
65°	377.6	407.5	452.6	508.4	558.6	585.1	566.5	503.3	448.7	405.8	374.8
67.5°	315.6	339.0	373.1	417.8	460.5	474.8	457.9	413.9	367.6	333.3	311.4
70°	272.8	294.8	323.5	357.9	395.1	410.3	393.4	358.5	320.7	289.1	267.7
72.5°	235.4	252.4	276.6	306.1	335.2	350.3	338.8	305.2	273.4	249.9	231.6
75°	179.2	193.9	210.8	231.6	254.2	264.3	254.2	231.1	209.1	191.6	178.6
77.5°	130.3	138.2	151.2	166.8	180.9	188.7	179.9	164.2	150.8	138.8	132.5
80°	99.2	104.8	113.8	126.3	135.8	143.2	137.5	124.6	113.8	106.0	103.1
82.5°	72.2	76.0	81.9	91.1	97.5	101.3	98.7	89.4	85.0	78.0	75.2
85°	35.5	37.7	41.7	44.5	50.1	50.7	51.3	47.4	43.4	41.7	39.5
87.5°	12.3	13.0	14.3	15.8	17.6	18.4	17.9	18.0	16.4	15.9	14.1
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°	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6	1360.6
2.5°	1434.1	1435.0	1439.0	1442.2	1443.1	1447.6	1448.1
5°	1560.1	1569.7	1588.3	1590.0	1592.8	1607.4	1596.2
7.5°	1707.8	1732.1	1748.3	1762.7	1767.9	1774.3	1772.9
10°	1802.5	1838.5	1856.6	1885.3	1886.4	1893.8	1889.3
12.5°	1897.6	1939.5	1972.5	1977.8	2001.9	2005.6	2011.9
15°	2032.4	2077.0	2122.6	2138.9	2172.2	2180.1	2192.5
17.5°	2159.2	2204.7	2236.7	2278.9	2292.6	2310.9	2298.4
20°	2228.5	2278.2	2318.7	2352.0	2366.1	2376.2	2375.1
22.5°	2270.5	2320.5	2353.4	2378.6	2391.8	2396.1	2395.8
25°	2296.8	2325.5	2335.7	2345.2	2330.6	2325.5	2327.8
27.5°	2223.7	2216.3	2189.8	2155.1	2119.0	2090.3	2074.8
30°	2123.2	2079.2	2039.1	1969.3	1933.2	1911.8	1892.6
32.5°	1980.7	1911.0	1834.0	1770.0	1729.0	1697.2	1692.5
35°	1736.5	1631.7	1537.6	1459.2	1418.6	1384.2	1376.4
37.5°	1476.3	1367.4	1282.7	1213.7	1170.1	1145.8	1123.2
40°	1303.7	1210.1	1126.7	1068.0	1034.8	1017.3	1003.2
42.5°	1170.6	1085.2	1002.2	957.6	927.5	916.8	908.6
45°	986.9	907.4	849.9	816.1	798.7	780.6	772.2
47.5°	839.8	775.1	737.2	708.5	689.7	679.1	673.6
50°	756.4	703.4	669.6	647.6	630.7	622.2	617.8
52.5°	682.4	639.0	610.5	593.0	581.6	575.4	573.6
55°	587.8	554.6	536.5	521.4	512.9	507.3	505.0
57.5°	510.9	485.4	470.8	458.2	454.9	450.2	448.7
60°	460.5	440.8	428.4	419.9	417.1	411.5	412.5
62.5°	415.8	399.7	389.1	384.3	380.6	375.9	377.4
65°	351.7	339.9	334.2	329.7	325.2	322.4	324.7
67.5°	295.1	287.0	279.3	276.7	274.5	274.0	271.7
70°	258.1	251.4	244.6	243.0	243.0	240.7	240.1
72.5°	222.5	217.5	213.0	211.8	210.0	210.9	208.6
75°	171.9	168.0	166.2	164.6	164.0	164.0	162.3
77.5°	127.0	124.1	121.4	121.4	119.4	118.6	118.4
80°	96.4	95.2	93.0	93.0	91.9	92.5	91.3
82.5°	72.5	70.9	70.4	69.5	68.0	68.1	66.9
85°	38.9	37.2	36.6	35.0	33.8	35.0	33.8
87.5°	14.6	14.3	13.8	13.0	12.6	12.5	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)