

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: P332933-830

Luminaire Tested: **SA4XXRDIP-C795D590U830-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332933-830
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-C795D590U830-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 795 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 590 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

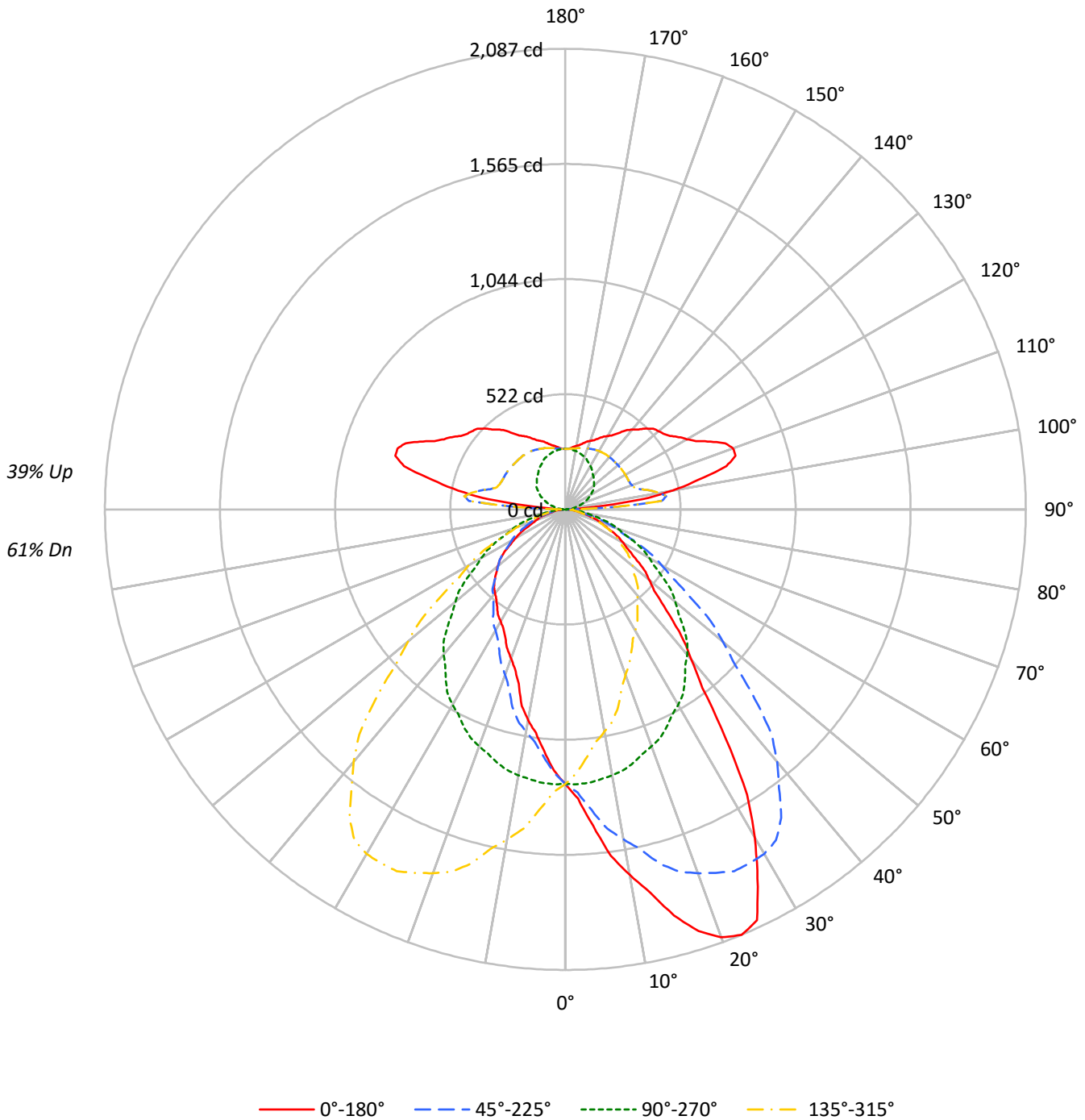
Lumens per Lamp: N/A
Luminaire Lumens: 5136.9 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 40.3
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	66	66	66	66	66	66	61	
1	101	97	93	90	94	91	87	85	79	77	75	69	67	66	60	58	57	57	57	57	53	
2	92	85	79	74	86	80	75	70	70	66	63	61	58	56	53	51	49	49	49	49	45	
3	85	75	68	62	79	71	65	59	63	58	54	55	51	48	48	45	42	42	42	42	39	
4	78	67	59	53	72	63	56	51	56	50	46	49	45	41	43	40	37	37	37	37	34	
5	71	60	52	46	67	57	49	44	50	45	40	44	40	36	39	35	33	33	33	33	30	
6	66	54	46	40	62	51	44	39	46	40	35	40	36	32	35	32	29	29	29	29	26	
7	61	49	41	36	57	46	39	34	41	36	31	37	32	29	32	29	26	26	26	26	23	
8	57	45	37	32	53	42	35	30	38	32	28	34	29	26	30	26	23	23	23	23	21	
9	53	41	33	28	50	39	32	27	35	29	25	31	26	23	28	24	21	21	21	21	19	
10	50	38	30	26	47	36	29	25	32	27	23	29	24	21	26	22	19	19	19	19	17	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10044	10044	10044	10044
5°	11651	10075	8904	10075
10°	13782	10030	7947	10030
15°	15921	9937	6829	9937
20°	17725	9810	6176	9810
25°	18299	9685	5734	9685
30°	16018	9533	5466	9533
35°	12470	9307	5306	9307
40°	9351	9049	5220	9049
45°	7383	8636	5174	8636
50°	6232	8160	5024	8160
55°	5433	7633	4756	7633
60°	4887	7090	4209	7090
65°	4309	6502	3620	6502
70°	3880	5894	3267	5894
75°	3250	5221	2785	5221
80°	2752	4454	2613	4454
85°	2325	3483	2325	3483



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CATALOG NUMBER: SA4XXRDIP-C795D590U830-4F0-1E-UDD-A4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.6	2.3
10°-20°	363.6	7.1
20°-30°	568.8	11.1
30°-40°	632.3	12.3
40°-50°	561.0	10.9
50°-60°	437.1	8.5
60°-70°	286.2	5.6
70°-80°	140.7	2.7
80°-90°	36.2	0.7
90°-100°	197.7	3.8
100°-110°	411.4	8.0
110°-120°	368.5	7.2
120°-130°	310.0	6.0
130°-140°	258.4	5.0
140°-150°	197.4	3.8
150°-160°	138.8	2.7
160°-170°	81.6	1.6
170°-180°	26.6	0.5
0°-30°	1052.9	20.5
0°-40°	1685.2	32.8
0°-60°	2683.3	52.2
0°-90°	3146.5	61.3
90°-120°	977.6	19.0
90°-150°	1743.4	33.9
90°-180°	1990.0	38.7
0°-180°	5136.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1244	1244	1244	1244	1244	
5°	1438	1243	1099	1243	1438	145
15°	1905	1189	817	1189	1905	542
25°	2054	1087	644	1087	2054	911
35°	1265	944	538	944	1265	793
45°	647	756	453	756	647	512
55°	386	542	338	542	386	351
65°	226	340	190	340	226	227
75°	104	167	89	167	104	115
85°	25	38	25	38	25	29
90°	11	1	11	1	11	10
95°	131	18	131	18	131	204
105°	756	63	756	63	756	748
115°	726	111	726	111	726	721
125°	580	154	580	154	580	527
135°	518	183	518	183	518	400
145°	423	211	423	211	423	268
155°	354	240	354	240	354	165
165°	309	262	309	262	309	89
175°	278	273	278	273	278	27
180°	274	274	274	274	274	



TEST NUMBER: P332933-830

CATALOG NUMBER: SA4XXRDIP-C795D590U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2
2.5°	1312.3	1316.0	1312.3	1311.9	1308.0	1306.7	1305.1	1300.0	1290.2	1284.7	1285.9
5°	1437.7	1450.2	1443.2	1442.2	1431.2	1420.1	1413.1	1397.0	1380.0	1368.5	1359.0
7.5°	1582.6	1589.9	1585.5	1578.4	1560.6	1550.5	1534.2	1513.1	1482.5	1459.2	1437.8
10°	1681.3	1687.3	1685.3	1672.3	1659.3	1632.7	1617.6	1588.1	1549.4	1518.9	1490.3
12.5°	1778.3	1784.8	1767.1	1767.7	1743.0	1722.1	1698.3	1661.0	1616.5	1577.1	1541.2
15°	1904.9	1896.9	1896.9	1886.8	1859.3	1830.1	1805.6	1766.5	1710.3	1663.2	1613.6
17.5°	2003.9	2006.7	2002.6	1979.0	1957.3	1927.2	1882.2	1836.5	1784.4	1721.2	1670.5
20°	2063.2	2063.2	2058.8	2042.7	2014.7	1982.5	1933.9	1884.3	1818.2	1754.4	1697.3
22.5°	2087.4	2089.0	2083.6	2070.4	2045.1	2013.8	1972.5	1922.0	1853.8	1782.2	1711.4
25°	2054.3	2063.8	2064.7	2061.2	2053.7	2034.7	1999.1	1947.5	1886.3	1808.6	1732.4
27.5°	1886.0	1898.0	1908.6	1925.9	1949.0	1961.0	1962.6	1936.4	1883.0	1808.2	1731.5
30°	1718.3	1728.4	1761.0	1803.6	1836.7	1866.8	1892.8	1899.9	1869.8	1802.6	1721.9
32.5°	1532.3	1546.0	1578.6	1624.4	1679.5	1730.4	1788.9	1818.8	1818.1	1777.7	1703.1
35°	1265.3	1275.3	1305.3	1353.5	1419.7	1495.3	1588.1	1660.2	1709.4	1705.8	1660.2
37.5°	1020.4	1031.7	1062.2	1102.0	1166.2	1259.9	1349.6	1449.1	1539.9	1590.9	1575.7
40°	887.3	887.8	917.4	958.5	1018.6	1100.3	1198.1	1308.3	1409.6	1492.3	1508.4
42.5°	782.2	782.3	801.8	846.1	889.5	966.4	1059.7	1169.2	1287.7	1383.3	1425.8
45°	646.7	651.2	667.2	693.8	727.8	793.1	867.7	969.5	1102.3	1215.6	1286.3
47.5°	547.6	554.2	564.4	586.1	613.2	656.7	718.4	809.8	917.9	1042.5	1143.1
50°	496.2	497.3	510.3	522.4	545.9	580.5	634.6	710.8	810.0	929.9	1041.7
52.5°	452.1	451.9	459.8	475.0	494.2	521.1	564.9	634.2	722.3	829.6	945.0
55°	386.0	388.5	394.5	406.5	421.0	440.2	474.7	526.9	596.1	687.8	792.5
57.5°	335.6	337.0	341.7	346.8	360.1	374.0	399.9	436.1	494.5	569.6	667.2
60°	302.7	303.3	304.8	312.3	322.8	335.8	353.4	384.0	433.1	501.8	579.0
62.5°	270.7	271.5	273.9	279.4	287.6	296.5	314.9	339.5	380.1	438.8	508.4
65°	225.6	226.1	229.6	231.6	238.1	246.1	259.7	276.2	304.3	353.4	406.0
67.5°	188.5	188.5	188.7	191.4	195.9	201.2	209.3	222.5	243.7	273.9	320.3
70°	164.4	164.4	165.4	166.9	169.5	173.9	178.4	188.5	204.1	228.6	264.2
72.5°	141.9	142.3	143.4	143.6	145.0	148.6	152.0	158.4	169.9	188.5	217.3
75°	104.2	105.8	108.3	110.3	112.8	112.3	115.8	119.8	123.3	134.3	150.9
77.5°	77.6	76.8	77.1	78.8	79.1	79.6	82.1	85.2	87.8	93.0	99.0
80°	59.2	59.2	60.7	61.2	60.7	61.2	63.6	65.1	66.2	68.1	73.7
82.5°	44.7	45.5	45.1	45.5	45.8	46.3	48.4	48.7	49.8	50.5	52.9
85°	25.1	25.5	26.1	25.1	25.1	25.1	26.1	26.6	27.6	27.1	28.1
87.5°	11.1	10.7	11.2	11.1	11.4	10.9	11.3	12.0	11.0	11.6	11.3
90°	11.3	11.3	11.8	11.3	10.7	10.7	10.2	9.7	9.1	9.7	8.6
92.5°	41.4	41.4	43.3	46.1	52.5	63.2	79.5	105.6	142.0	170.5	149.3
95°	131.2	138.2	147.9	164.6	190.9	243.0	315.1	398.4	450.5	438.2	330.6
97.5°	350.6	361.8	378.0	410.4	448.9	505.1	557.7	588.6	566.1	461.6	309.5
100°	493.0	497.4	513.5	546.3	593.0	632.8	659.2	648.5	570.0	432.3	280.7
102.5°	616.9	620.4	637.3	661.1	689.8	706.4	698.8	645.5	537.6	395.8	261.3
105°	756.5	759.7	767.2	771.6	770.5	748.5	695.2	602.2	479.1	352.7	244.7
107.5°	808.3	806.9	801.5	789.3	762.7	714.8	639.8	540.8	431.8	328.7	241.7
110°	809.2	804.4	794.7	772.1	734.0	674.8	596.8	503.8	408.1	320.5	242.5



TEST NUMBER: P332933-830

CATALOG NUMBER: SA4XXRDIP-C795D590U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	783.8	776.0	762.4	735.1	691.7	632.6	558.9	476.7	394.7	316.6	245.1
115°	726.4	722.1	704.9	672.6	630.2	578.5	515.7	449.5	382.3	314.5	250.1
117.5°	668.3	664.9	647.4	620.4	584.1	540.4	490.9	436.1	376.7	314.0	255.2
120°	635.6	629.6	615.7	592.0	561.3	523.1	480.1	430.2	373.7	314.0	259.2
122.5°	609.7	603.8	592.0	571.7	545.8	512.4	473.3	425.0	370.2	313.6	263.1
125°	579.6	576.4	566.2	550.5	529.0	499.5	462.4	416.1	364.6	312.9	268.8
127.5°	561.9	558.7	550.2	536.3	514.6	486.6	449.6	405.4	356.9	311.7	273.4
130°	551.7	548.5	539.8	526.4	504.4	475.8	439.3	396.8	352.1	311.3	276.9
132.5°	540.1	536.8	528.7	513.5	491.8	463.4	427.6	387.8	347.9	310.9	279.9
135°	518.3	515.1	506.5	491.4	470.0	443.0	410.3	375.3	341.4	310.2	284.5
137.5°	491.4	487.6	480.5	465.6	445.5	421.2	393.6	364.0	335.8	310.1	287.1
140°	472.1	467.8	460.2	448.5	429.6	407.0	382.9	357.5	332.8	309.7	289.3
142.5°	451.4	448.5	441.8	430.7	414.2	394.5	373.8	351.6	330.3	309.7	291.0
145°	423.1	420.5	415.1	406.0	392.5	377.5	361.3	343.0	325.8	308.6	292.0
147.5°	398.1	397.1	393.0	385.2	375.3	363.4	350.5	336.0	321.9	306.7	292.5
150°	383.9	383.3	380.1	373.2	364.6	354.9	344.1	331.8	318.9	305.4	292.5
152.5°	371.0	370.4	368.5	362.8	355.5	347.5	337.6	327.0	315.4	303.2	291.6
155°	354.3	354.3	352.7	348.5	343.0	336.6	328.5	319.9	310.2	300.0	290.3
157.5°	339.7	339.7	338.7	335.5	331.4	326.2	319.5	312.3	305.0	296.7	289.0
160°	330.6	330.6	330.2	326.9	323.7	319.3	313.5	307.6	301.1	294.1	287.7
162.5°	322.1	322.5	322.0	318.8	316.4	312.5	307.8	302.8	297.7	291.5	286.3
165°	309.2	309.7	310.2	308.1	305.9	303.2	299.4	296.2	292.0	287.7	283.9
167.5°	299.0	299.4	299.4	298.1	297.0	295.4	292.4	289.9	286.8	283.8	281.3
170°	292.5	292.5	293.0	292.5	291.4	289.8	287.7	286.1	283.3	281.2	279.6
172.5°	286.1	286.9	287.5	286.9	286.3	285.1	283.8	282.6	280.3	278.6	277.9
175°	278.5	279.6	280.7	279.6	279.6	279.6	278.5	278.0	276.9	275.8	275.8
177.5°	274.1	274.9	275.8	275.4	275.8	275.4	275.4	274.9	274.6	274.1	274.1
180°	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7



TEST NUMBER: P332933-830

CATALOG NUMBER: SA4XXRDIP-C795D590U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2
2.5°	1281.9	1276.3	1273.5	1267.1	1259.4	1255.4	1251.8	1246.6	1239.7	1232.6	1227.3
5°	1346.9	1334.9	1319.8	1301.8	1285.8	1270.3	1256.7	1243.2	1227.7	1211.5	1195.5
7.5°	1413.7	1390.1	1364.5	1334.9	1306.2	1280.0	1255.9	1232.8	1206.7	1183.5	1162.2
10°	1460.2	1428.1	1392.5	1355.0	1317.4	1284.8	1252.7	1223.6	1191.6	1163.0	1138.9
12.5°	1497.9	1460.2	1417.4	1370.6	1325.4	1286.0	1249.1	1211.2	1174.7	1143.7	1111.6
15°	1560.5	1508.8	1451.2	1395.1	1336.4	1282.8	1233.1	1189.0	1147.5	1103.8	1073.3
17.5°	1603.5	1542.2	1472.2	1404.7	1335.4	1272.1	1214.9	1162.3	1114.4	1069.8	1033.4
20°	1629.2	1561.5	1483.8	1407.1	1329.4	1261.7	1200.0	1141.9	1092.3	1044.1	1006.5
22.5°	1643.6	1568.7	1483.8	1403.4	1323.0	1249.7	1182.0	1121.4	1067.4	1019.3	977.7
25°	1648.2	1568.0	1481.3	1389.0	1300.8	1223.1	1152.9	1087.3	1027.1	979.0	934.9
27.5°	1641.8	1547.4	1458.5	1363.9	1272.8	1190.9	1117.3	1048.3	988.1	936.4	891.2
30°	1632.2	1530.9	1435.7	1337.4	1245.2	1166.5	1088.7	1022.6	960.0	906.3	860.7
32.5°	1611.3	1510.9	1408.3	1307.8	1214.3	1133.2	1059.5	993.0	931.5	876.7	828.2
35°	1570.0	1468.3	1357.0	1253.7	1162.0	1077.7	1008.6	944.4	885.8	827.1	776.0
37.5°	1515.6	1411.6	1300.9	1187.8	1096.0	1016.5	953.0	892.8	835.6	782.0	725.4
40°	1464.2	1369.5	1255.2	1142.9	1048.7	971.9	913.3	858.7	801.1	747.9	691.3
42.5°	1402.0	1321.4	1205.9	1093.2	1000.1	926.2	871.7	818.2	765.7	714.3	655.2
45°	1298.4	1237.2	1128.9	1020.6	926.9	853.7	803.5	756.4	710.3	661.2	605.6
47.5°	1179.4	1138.0	1044.5	933.7	847.0	781.1	732.6	694.2	655.2	606.1	557.2
50°	1096.8	1070.3	980.0	878.7	796.1	735.4	685.8	649.7	617.1	570.0	526.3
52.5°	1008.6	994.5	918.2	821.4	741.5	682.0	639.6	607.2	574.2	535.1	494.3
55°	874.2	881.7	817.1	733.4	658.2	608.0	569.5	542.3	514.3	481.3	449.7
57.5°	736.9	764.3	721.0	647.4	576.9	530.7	501.6	478.8	455.2	427.8	400.9
60°	654.7	677.7	653.2	588.5	526.9	483.7	456.7	439.1	415.6	390.5	369.9
62.5°	574.5	599.2	584.6	532.3	475.1	438.0	414.2	397.8	380.3	358.4	337.1
65°	473.7	489.7	482.8	446.7	406.0	374.5	352.4	340.4	324.3	308.3	289.3
67.5°	362.8	393.8	389.7	370.5	335.5	310.8	296.3	285.7	271.1	259.2	246.2
70°	298.2	326.9	326.3	310.8	291.7	268.7	258.6	249.7	236.6	225.1	214.5
72.5°	244.1	270.3	274.2	262.3	249.2	231.8	222.2	215.9	203.3	195.4	186.9
75°	171.0	190.0	195.0	195.0	189.0	179.9	171.4	167.4	158.4	151.4	146.4
77.5°	112.1	124.1	132.0	133.7	134.7	131.7	124.6	121.8	114.9	112.4	107.5
80°	79.2	87.2	96.2	99.2	101.8	100.8	97.7	95.8	89.3	86.7	84.7
82.5°	54.8	59.2	66.5	73.1	72.5	75.1	72.5	70.9	66.0	65.0	63.1
85°	28.6	29.0	30.1	34.6	37.1	38.1	38.6	37.6	36.1	36.1	32.6
87.5°	11.1	10.7	10.8	10.8	11.2	12.6	13.6	13.8	12.7	11.9	10.7
90°	7.5	7.5	4.3	4.3	3.8	3.2	1.6	0.6	1.6	3.2	3.8
92.5°	108.6	66.9	39.6	28.4	20.5	13.9	9.0	6.1	9.0	13.9	20.5
95°	202.2	114.0	67.2	44.6	31.8	24.7	19.3	17.7	19.3	24.7	31.8
97.5°	181.7	109.0	73.0	54.0	42.9	36.5	31.9	31.9	31.9	36.5	42.9
100°	171.0	110.2	78.5	61.3	51.1	44.6	40.9	40.9	40.9	44.6	51.1
102.5°	168.0	114.5	85.8	69.5	59.7	53.6	50.3	49.5	50.3	53.6	59.7
105°	169.4	124.7	99.0	83.3	73.7	67.2	64.6	62.9	64.6	67.2	73.7
107.5°	177.3	136.7	113.0	97.6	88.4	81.5	78.8	77.8	78.8	81.5	88.4
110°	183.3	145.7	122.1	107.5	97.8	91.4	88.7	87.7	88.7	91.4	97.8



TEST NUMBER: P332933-830

CATALOG NUMBER: SA4XXRDIP-C795D590U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	189.8	154.3	131.5	117.0	107.4	101.3	98.2	97.1	98.2	101.3	107.4
115°	200.0	167.8	146.3	131.8	121.5	116.1	112.4	110.7	112.4	116.1	121.5
117.5°	210.5	180.8	160.3	145.2	135.7	129.8	126.5	125.0	126.5	129.8	135.7
120°	217.7	189.8	169.4	154.3	145.2	139.2	135.5	134.4	135.5	139.2	145.2
122.5°	224.6	198.4	178.0	163.3	153.4	147.9	144.1	143.0	144.1	147.9	153.4
125°	235.0	210.2	190.9	175.8	165.6	159.7	156.5	154.3	156.5	159.7	165.6
127.5°	243.9	221.2	202.5	187.3	176.6	169.9	166.1	164.3	166.1	169.9	176.6
130°	249.5	228.5	210.2	194.6	184.5	176.3	172.0	169.9	172.0	176.3	184.5
132.5°	255.1	234.5	216.2	201.5	190.5	182.9	177.2	175.5	177.2	182.9	190.5
135°	262.4	243.0	225.3	211.3	200.0	190.9	185.5	183.3	185.5	190.9	200.0
137.5°	267.6	249.5	232.9	219.6	207.8	199.2	193.2	191.2	193.2	199.2	207.8
140°	271.0	253.8	237.6	224.7	213.5	204.3	198.4	196.8	198.4	204.3	213.5
142.5°	273.5	257.7	242.0	229.5	218.6	209.9	204.4	202.8	204.4	209.9	218.6
145°	276.4	261.8	247.9	236.0	225.8	218.3	212.9	211.3	212.9	218.3	225.8
147.5°	278.8	266.2	253.1	242.4	233.8	226.1	221.4	220.8	221.4	226.1	233.8
150°	280.1	268.3	256.5	246.3	238.2	231.8	227.4	226.9	227.4	231.8	238.2
152.5°	281.0	270.0	259.5	250.2	242.9	236.9	232.6	232.5	232.6	236.9	242.9
155°	281.7	272.6	263.4	255.4	249.5	244.1	240.9	240.3	240.9	244.1	249.5
157.5°	281.7	274.5	266.6	260.3	255.1	251.0	248.0	248.0	248.0	251.0	255.1
160°	281.7	275.3	268.8	262.9	258.6	254.9	252.7	252.7	252.7	254.9	258.6
162.5°	281.7	276.2	270.1	265.5	261.6	258.3	256.6	257.0	256.6	258.3	261.6
165°	280.7	276.4	271.5	268.3	265.6	262.9	261.8	261.8	261.8	262.9	265.6
167.5°	279.4	276.3	272.7	270.2	268.7	266.6	266.2	266.6	266.2	266.6	268.7
170°	278.5	275.8	273.1	271.5	270.4	268.8	268.3	268.8	268.3	268.8	270.4
172.5°	277.7	275.4	273.5	272.4	271.7	270.5	270.4	271.0	270.4	270.5	271.7
175°	276.4	274.8	273.7	273.7	273.1	272.6	272.6	273.1	272.6	272.6	273.1
177.5°	274.9	274.1	273.7	273.7	273.7	273.2	273.7	274.1	273.7	273.2	273.7
180°	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7



TEST NUMBER: P332933-830

CATALOG NUMBER: SA4XXRDIP-C795D590U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2
2.5°	1221.7	1217.7	1212.5	1206.5	1199.3	1192.9	1190.1	1192.4	1193.6	1190.4	1190.1
5°	1184.5	1172.0	1162.0	1146.9	1134.9	1124.8	1117.9	1114.8	1115.9	1107.9	1105.8
7.5°	1142.7	1127.8	1111.4	1093.6	1076.9	1062.2	1054.5	1050.3	1041.8	1038.1	1032.0
10°	1115.9	1095.8	1079.8	1058.7	1039.6	1022.1	1013.6	1006.5	998.1	994.0	985.5
12.5°	1088.2	1064.9	1047.3	1025.4	1006.0	984.8	976.7	963.7	950.4	941.9	930.9
15°	1049.1	1021.2	999.6	973.5	950.5	926.3	904.8	880.7	871.8	852.7	841.7
17.5°	1003.5	975.1	948.4	913.4	877.9	848.0	825.0	801.9	788.2	776.0	770.3
20°	973.5	947.4	910.3	869.7	830.1	797.0	778.4	763.5	748.4	739.9	733.9
22.5°	945.0	911.7	868.6	824.8	785.2	759.3	743.6	728.1	716.0	707.8	699.7
25°	897.3	853.7	808.0	757.9	730.8	708.3	691.3	678.7	671.2	660.7	656.7
27.5°	848.3	795.4	745.1	711.4	683.2	662.6	647.7	638.3	628.8	622.1	616.9
30°	810.6	757.0	711.8	679.8	651.2	634.1	622.1	611.1	603.5	598.0	594.0
32.5°	773.3	719.6	681.7	647.2	624.7	608.0	595.2	587.0	581.1	574.0	571.6
35°	719.3	671.8	638.7	607.6	584.5	569.5	559.4	550.9	545.9	543.8	542.3
37.5°	667.5	628.5	593.0	567.4	546.9	535.1	523.2	519.1	515.6	512.0	513.6
40°	634.6	598.0	566.5	539.4	522.8	509.8	502.8	497.8	494.7	494.7	494.7
42.5°	606.1	570.3	539.6	515.3	498.8	487.8	479.9	475.7	474.7	474.3	476.7
45°	561.9	528.9	497.8	477.7	463.6	452.6	448.2	444.6	444.6	446.7	447.1
47.5°	518.1	487.1	462.2	439.7	426.9	420.0	416.0	414.2	414.4	416.5	418.8
50°	491.3	460.7	436.1	416.0	404.1	397.5	394.0	393.0	394.0	394.0	397.5
52.5°	461.9	434.6	410.5	393.6	379.9	373.8	371.9	370.5	371.2	372.8	374.3
55°	419.1	394.5	371.5	355.4	345.3	341.4	336.9	337.3	336.4	337.3	337.3
57.5°	376.1	354.0	332.5	319.8	311.0	305.2	300.3	301.7	300.2	300.0	299.2
60°	348.4	324.3	307.3	295.8	285.7	280.7	276.2	277.2	275.7	274.7	272.7
62.5°	318.3	298.2	282.0	270.9	262.9	257.0	252.5	251.6	248.1	244.6	240.3
65°	274.7	258.2	243.6	233.1	225.6	221.0	217.5	214.5	207.0	199.0	195.0
67.5°	232.3	220.4	206.8	197.9	191.8	185.9	179.2	174.1	167.0	162.6	160.1
70°	205.0	193.5	182.0	173.4	166.9	161.5	153.9	150.4	145.3	143.4	140.8
72.5°	179.0	168.2	157.5	149.8	142.9	138.6	132.6	129.1	127.0	126.1	123.7
75°	139.4	130.8	122.8	115.8	110.3	107.3	104.8	102.3	101.2	96.7	94.3
77.5°	101.7	96.0	91.0	86.1	82.1	80.1	75.3	72.4	70.7	68.6	68.1
80°	79.2	75.2	70.2	67.2	61.6	59.7	57.7	57.1	56.6	56.2	55.6
82.5°	59.6	55.5	50.5	48.7	47.2	46.0	44.8	44.3	43.8	44.1	44.0
85°	30.1	28.1	28.1	27.6	27.1	26.6	26.1	26.1	25.5	26.1	25.5
87.5°	10.8	10.5	11.1	10.4	10.9	11.1	10.7	10.7	11.3	10.6	10.6
90°	4.3	4.3	7.5	7.5	8.6	9.7	9.1	9.7	10.2	10.7	10.7
92.5°	28.4	39.6	66.9	108.6	149.3	170.5	142.0	105.6	79.5	63.2	52.5
95°	44.6	67.2	114.0	202.2	330.6	438.2	450.5	398.4	315.1	243.0	190.9
97.5°	54.0	73.0	109.0	181.7	309.5	461.6	566.1	588.6	557.7	505.1	448.9
100°	61.3	78.5	110.2	171.0	280.7	432.3	570.0	648.5	659.2	632.8	593.0
102.5°	69.5	85.8	114.5	168.0	261.3	395.8	537.6	645.5	698.8	706.4	689.8
105°	83.3	99.0	124.7	169.4	244.7	352.7	479.1	602.2	695.2	748.5	770.5
107.5°	97.6	113.0	136.7	177.3	241.7	328.7	431.8	540.8	639.8	714.8	762.7
110°	107.5	122.1	145.7	183.3	242.5	320.5	408.1	503.8	596.8	674.8	734.0



TEST NUMBER: P332933-830

CATALOG NUMBER: SA4XXRDIP-C795D590U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	117.0	131.5	154.3	189.8	245.1	316.6	394.7	476.7	558.9	632.6	691.7
115°	131.8	146.3	167.8	200.0	250.1	314.5	382.3	449.5	515.7	578.5	630.2
117.5°	145.2	160.3	180.8	210.5	255.2	314.0	376.7	436.1	490.9	540.4	584.1
120°	154.3	169.4	189.8	217.7	259.2	314.0	373.7	430.2	480.1	523.1	561.3
122.5°	163.3	178.0	198.4	224.6	263.1	313.6	370.2	425.0	473.3	512.4	545.8
125°	175.8	190.9	210.2	235.0	268.8	312.9	364.6	416.1	462.4	499.5	529.0
127.5°	187.3	202.5	221.2	243.9	273.4	311.7	356.9	405.4	449.6	486.6	514.6
130°	194.6	210.2	228.5	249.5	276.9	311.3	352.1	396.8	439.3	475.8	504.4
132.5°	201.5	216.2	234.5	255.1	279.9	310.9	347.9	387.8	427.6	463.4	491.8
135°	211.3	225.3	243.0	262.4	284.5	310.2	341.4	375.3	410.3	443.0	470.0
137.5°	219.6	232.9	249.5	267.6	287.1	310.1	335.8	364.0	393.6	421.2	445.5
140°	224.7	237.6	253.8	271.0	289.3	309.7	332.8	357.5	382.9	407.0	429.6
142.5°	229.5	242.0	257.7	273.5	291.0	309.7	330.3	351.6	373.8	394.5	414.2
145°	236.0	247.9	261.8	276.4	292.0	308.6	325.8	343.0	361.3	377.5	392.5
147.5°	242.4	253.1	266.2	278.8	292.5	306.7	321.9	336.0	350.5	363.4	375.3
150°	246.3	256.5	268.3	280.1	292.5	305.4	318.9	331.8	344.1	354.9	364.6
152.5°	250.2	259.5	270.0	281.0	291.6	303.2	315.4	327.0	337.6	347.5	355.5
155°	255.4	263.4	272.6	281.7	290.3	300.0	310.2	319.9	328.5	336.6	343.0
157.5°	260.3	266.6	274.5	281.7	289.0	296.7	305.0	312.3	319.5	326.2	331.4
160°	262.9	268.8	275.3	281.7	287.7	294.1	301.1	307.6	313.5	319.3	323.7
162.5°	265.5	270.1	276.2	281.7	286.3	291.5	297.7	302.8	307.8	312.5	316.4
165°	268.3	271.5	276.4	280.7	283.9	287.7	292.0	296.2	299.4	303.2	305.9
167.5°	270.2	272.7	276.3	279.4	281.3	283.8	286.8	289.9	292.4	295.4	297.0
170°	271.5	273.1	275.8	278.5	279.6	281.2	283.3	286.1	287.7	289.8	291.4
172.5°	272.4	273.5	275.4	277.7	277.9	278.6	280.3	282.6	283.8	285.1	286.3
175°	273.7	273.7	274.8	276.4	275.8	275.8	276.9	278.0	278.5	279.6	279.6
177.5°	273.7	273.7	274.1	274.9	274.1	274.1	274.6	274.9	275.4	275.4	275.8
180°	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7



TEST NUMBER: P332933-830

CATALOG NUMBER: SA4XXRDIP-C795D590U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2
2.5°	1187.6	1188.5	1185.6	1184.8	1185.6	1188.5	1187.6	1190.1	1190.4	1193.6	1192.4
5°	1101.8	1100.8	1098.3	1098.8	1098.3	1100.8	1101.8	1105.8	1107.9	1115.9	1114.8
7.5°	1028.4	1024.5	1025.6	1021.6	1025.6	1024.5	1028.4	1032.0	1038.1	1041.8	1050.3
10°	983.5	978.0	973.5	969.5	973.5	978.0	983.5	985.5	994.0	998.1	1006.5
12.5°	922.2	917.5	911.3	912.6	911.3	917.5	922.2	930.9	941.9	950.4	963.7
15°	835.1	827.6	815.6	817.1	815.6	827.6	835.1	841.7	852.7	871.8	880.7
17.5°	761.5	761.6	756.0	757.3	756.0	761.6	761.5	770.3	776.0	788.2	801.9
20°	723.3	719.8	720.3	718.9	720.3	719.8	723.3	733.9	739.9	748.4	763.5
22.5°	696.9	692.6	689.1	686.0	689.1	692.6	696.9	699.7	707.8	716.0	728.1
25°	652.1	649.1	644.6	643.7	644.6	649.1	652.1	656.7	660.7	671.2	678.7
27.5°	612.8	612.3	610.5	608.1	610.5	612.3	612.8	616.9	622.1	628.8	638.3
30°	590.0	589.0	588.0	586.4	588.0	589.0	590.0	594.0	598.0	603.5	611.1
32.5°	569.6	568.9	568.0	568.1	568.0	568.9	569.6	571.6	574.0	581.1	587.0
35°	540.4	539.9	538.9	538.4	538.9	539.9	540.4	542.3	543.8	545.9	550.9
37.5°	513.1	514.4	513.8	513.7	513.8	514.4	513.1	513.6	512.0	515.6	519.1
40°	494.3	494.7	495.8	495.3	495.8	494.7	494.3	494.7	494.7	494.7	497.8
42.5°	478.6	478.7	480.1	478.4	480.1	478.7	478.6	476.7	474.3	474.7	475.7
45°	450.6	453.6	453.2	453.2	453.2	453.6	450.6	447.1	446.7	444.6	444.6
47.5°	420.1	422.6	423.4	423.3	423.4	422.6	420.1	418.8	416.5	414.4	414.2
50°	400.0	399.0	400.5	400.0	400.5	399.0	400.0	397.5	394.0	394.0	393.0
52.5°	375.6	375.8	375.7	375.1	375.7	375.8	375.6	374.3	372.8	371.2	370.5
55°	337.9	338.4	337.3	337.9	337.3	338.4	337.9	337.3	337.3	336.4	337.3
57.5°	297.0	294.5	295.6	294.4	295.6	294.5	297.0	299.2	300.0	300.2	301.7
60°	267.7	263.6	262.7	260.7	262.7	263.6	267.7	272.7	274.7	275.7	277.2
62.5°	234.8	232.0	228.6	230.2	228.6	232.0	234.8	240.3	244.6	248.1	251.6
65°	191.0	189.0	187.5	189.5	187.5	189.0	191.0	195.0	199.0	207.0	214.5
67.5°	158.1	157.0	157.0	156.0	157.0	157.0	158.1	160.1	162.6	167.0	174.1
70°	140.8	139.4	139.4	138.4	139.4	139.4	140.8	140.8	143.4	145.3	150.4
72.5°	123.2	121.7	122.2	121.5	122.2	121.7	123.2	123.7	126.1	127.0	129.1
75°	91.2	88.7	88.7	89.3	88.7	88.7	91.2	94.3	96.7	101.2	102.3
77.5°	68.1	67.6	68.2	67.4	68.2	67.6	68.1	68.1	68.6	70.7	72.4
80°	55.6	55.1	54.7	56.2	54.7	55.1	55.6	55.6	56.2	56.6	57.1
82.5°	43.2	43.1	43.0	45.0	43.0	43.1	43.2	44.0	44.1	43.8	44.3
85°	26.1	25.1	26.1	25.1	26.1	25.1	26.1	25.5	26.1	25.5	26.1
87.5°	11.5	11.2	10.7	11.1	10.7	11.2	11.5	10.6	10.6	11.3	10.7
90°	11.3	11.8	11.3	11.3	11.3	11.8	11.3	10.7	10.7	10.2	9.7
92.5°	46.1	43.3	41.4	41.4	41.4	43.3	46.1	52.5	63.2	79.5	105.6
95°	164.6	147.9	138.2	131.2	138.2	147.9	164.6	190.9	243.0	315.1	398.4
97.5°	410.4	378.0	361.8	350.6	361.8	378.0	410.4	448.9	505.1	557.7	588.6
100°	546.3	513.5	497.4	493.0	497.4	513.5	546.3	593.0	632.8	659.2	648.5
102.5°	661.1	637.3	620.4	616.9	620.4	637.3	661.1	689.8	706.4	698.8	645.5
105°	771.6	767.2	759.7	756.5	759.7	767.2	771.6	770.5	748.5	695.2	602.2
107.5°	789.3	801.5	806.9	808.3	806.9	801.5	789.3	762.7	714.8	639.8	540.8
110°	772.1	794.7	804.4	809.2	804.4	794.7	772.1	734.0	674.8	596.8	503.8



TEST NUMBER: P332933-830

CATALOG NUMBER: SA4XXRDIP-C795D590U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	735.1	762.4	776.0	783.8	776.0	762.4	735.1	691.7	632.6	558.9	476.7
115°	672.6	704.9	722.1	726.4	722.1	704.9	672.6	630.2	578.5	515.7	449.5
117.5°	620.4	647.4	664.9	668.3	664.9	647.4	620.4	584.1	540.4	490.9	436.1
120°	592.0	615.7	629.6	635.6	629.6	615.7	592.0	561.3	523.1	480.1	430.2
122.5°	571.7	592.0	603.8	609.7	603.8	592.0	571.7	545.8	512.4	473.3	425.0
125°	550.5	566.2	576.4	579.6	576.4	566.2	550.5	529.0	499.5	462.4	416.1
127.5°	536.3	550.2	558.7	561.9	558.7	550.2	536.3	514.6	486.6	449.6	405.4
130°	526.4	539.8	548.5	551.7	548.5	539.8	526.4	504.4	475.8	439.3	396.8
132.5°	513.5	528.7	536.8	540.1	536.8	528.7	513.5	491.8	463.4	427.6	387.8
135°	491.4	506.5	515.1	518.3	515.1	506.5	491.4	470.0	443.0	410.3	375.3
137.5°	465.6	480.5	487.6	491.4	487.6	480.5	465.6	445.5	421.2	393.6	364.0
140°	448.5	460.2	467.8	472.1	467.8	460.2	448.5	429.6	407.0	382.9	357.5
142.5°	430.7	441.8	448.5	451.4	448.5	441.8	430.7	414.2	394.5	373.8	351.6
145°	406.0	415.1	420.5	423.1	420.5	415.1	406.0	392.5	377.5	361.3	343.0
147.5°	385.2	393.0	397.1	398.1	397.1	393.0	385.2	375.3	363.4	350.5	336.0
150°	373.2	380.1	383.3	383.9	383.3	380.1	373.2	364.6	354.9	344.1	331.8
152.5°	362.8	368.5	370.4	371.0	370.4	368.5	362.8	355.5	347.5	337.6	327.0
155°	348.5	352.7	354.3	354.3	354.3	352.7	348.5	343.0	336.6	328.5	319.9
157.5°	335.5	338.7	339.7	339.7	339.7	338.7	335.5	331.4	326.2	319.5	312.3
160°	326.9	330.2	330.6	330.6	330.6	330.2	326.9	323.7	319.3	313.5	307.6
162.5°	318.8	322.0	322.5	322.1	322.5	322.0	318.8	316.4	312.5	307.8	302.8
165°	308.1	310.2	309.7	309.2	309.7	310.2	308.1	305.9	303.2	299.4	296.2
167.5°	298.1	299.4	299.4	299.0	299.4	299.4	298.1	297.0	295.4	292.4	289.9
170°	292.5	293.0	292.5	292.5	292.5	293.0	292.5	291.4	289.8	287.7	286.1
172.5°	286.9	287.5	286.9	286.1	286.9	287.5	286.9	286.3	285.1	283.8	282.6
175°	279.6	280.7	279.6	278.5	279.6	280.7	279.6	279.6	279.6	278.5	278.0
177.5°	275.4	275.8	274.9	274.1	274.9	275.8	275.4	275.8	275.4	275.4	274.9
180°	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7



TEST NUMBER: P332933-830

CATALOG NUMBER: SA4XXRDIP-C795D590U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2
2.5°	1190.1	1192.9	1199.3	1206.5	1212.5	1217.7	1221.7	1227.3	1232.6	1239.7	1246.6
5°	1117.9	1124.8	1134.9	1146.9	1162.0	1172.0	1184.5	1195.5	1211.5	1227.7	1243.2
7.5°	1054.5	1062.2	1076.9	1093.6	1111.4	1127.8	1142.7	1162.2	1183.5	1206.7	1232.8
10°	1013.6	1022.1	1039.6	1058.7	1079.8	1095.8	1115.9	1138.9	1163.0	1191.6	1223.6
12.5°	976.7	984.8	1006.0	1025.4	1047.3	1064.9	1088.2	1111.6	1143.7	1174.7	1211.2
15°	904.8	926.3	950.5	973.5	999.6	1021.2	1049.1	1073.3	1103.8	1147.5	1189.0
17.5°	825.0	848.0	877.9	913.4	948.4	975.1	1003.5	1033.4	1069.8	1114.4	1162.3
20°	778.4	797.0	830.1	869.7	910.3	947.4	973.5	1006.5	1044.1	1092.3	1141.9
22.5°	743.6	759.3	785.2	824.8	868.6	911.7	945.0	977.7	1019.3	1067.4	1121.4
25°	691.3	708.3	730.8	757.9	808.0	853.7	897.3	934.9	979.0	1027.1	1087.3
27.5°	647.7	662.6	683.2	711.4	745.1	795.4	848.3	891.2	936.4	988.1	1048.3
30°	622.1	634.1	651.2	679.8	711.8	757.0	810.6	860.7	906.3	960.0	1022.6
32.5°	595.2	608.0	624.7	647.2	681.7	719.6	773.3	828.2	876.7	931.5	993.0
35°	559.4	569.5	584.5	607.6	638.7	671.8	719.3	776.0	827.1	885.8	944.4
37.5°	523.2	535.1	546.9	567.4	593.0	628.5	667.5	725.4	782.0	835.6	892.8
40°	502.8	509.8	522.8	539.4	566.5	598.0	634.6	691.3	747.9	801.1	858.7
42.5°	479.9	487.8	498.8	515.3	539.6	570.3	606.1	655.2	714.3	765.7	818.2
45°	448.2	452.6	463.6	477.7	497.8	528.9	561.9	605.6	661.2	710.3	756.4
47.5°	416.0	420.0	426.9	439.7	462.2	487.1	518.1	557.2	606.1	655.2	694.2
50°	394.0	397.5	404.1	416.0	436.1	460.7	491.3	526.3	570.0	617.1	649.7
52.5°	371.9	373.8	379.9	393.6	410.5	434.6	461.9	494.3	535.1	574.2	607.2
55°	336.9	341.4	345.3	355.4	371.5	394.5	419.1	449.7	481.3	514.3	542.3
57.5°	300.3	305.2	311.0	319.8	332.5	354.0	376.1	400.9	427.8	455.2	478.8
60°	276.2	280.7	285.7	295.8	307.3	324.3	348.4	369.9	390.5	415.6	439.1
62.5°	252.5	257.0	262.9	270.9	282.0	298.2	318.3	337.1	358.4	380.3	397.8
65°	217.5	221.0	225.6	233.1	243.6	258.2	274.7	289.3	308.3	324.3	340.4
67.5°	179.2	185.9	191.8	197.9	206.8	220.4	232.3	246.2	259.2	271.1	285.7
70°	153.9	161.5	166.9	173.4	182.0	193.5	205.0	214.5	225.1	236.6	249.7
72.5°	132.6	138.6	142.9	149.8	157.5	168.2	179.0	186.9	195.4	203.3	215.9
75°	104.8	107.3	110.3	115.8	122.8	130.8	139.4	146.4	151.4	158.4	167.4
77.5°	75.3	80.1	82.1	86.1	91.0	96.0	101.7	107.5	112.4	114.9	121.8
80°	57.7	59.7	61.6	67.2	70.2	75.2	79.2	84.7	86.7	89.3	95.8
82.5°	44.8	46.0	47.2	48.7	50.5	55.5	59.6	63.1	65.0	66.0	70.9
85°	26.1	26.6	27.1	27.6	28.1	28.1	30.1	32.6	36.1	36.1	37.6
87.5°	10.7	11.1	10.9	10.4	11.1	10.5	10.8	10.7	11.9	12.7	13.8
90°	9.1	9.7	8.6	7.5	7.5	4.3	4.3	3.8	3.2	1.6	0.6
92.5°	142.0	170.5	149.3	108.6	66.9	39.6	28.4	20.5	13.9	9.0	6.1
95°	450.5	438.2	330.6	202.2	114.0	67.2	44.6	31.8	24.7	19.3	17.7
97.5°	566.1	461.6	309.5	181.7	109.0	73.0	54.0	42.9	36.5	31.9	31.9
100°	570.0	432.3	280.7	171.0	110.2	78.5	61.3	51.1	44.6	40.9	40.9
102.5°	537.6	395.8	261.3	168.0	114.5	85.8	69.5	59.7	53.6	50.3	49.5
105°	479.1	352.7	244.7	169.4	124.7	99.0	83.3	73.7	67.2	64.6	62.9
107.5°	431.8	328.7	241.7	177.3	136.7	113.0	97.6	88.4	81.5	78.8	77.8
110°	408.1	320.5	242.5	183.3	145.7	122.1	107.5	97.8	91.4	88.7	87.7



TEST NUMBER: P332933-830

CATALOG NUMBER: SA4XXRDIP-C795D590U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	394.7	316.6	245.1	189.8	154.3	131.5	117.0	107.4	101.3	98.2	97.1
115°	382.3	314.5	250.1	200.0	167.8	146.3	131.8	121.5	116.1	112.4	110.7
117.5°	376.7	314.0	255.2	210.5	180.8	160.3	145.2	135.7	129.8	126.5	125.0
120°	373.7	314.0	259.2	217.7	189.8	169.4	154.3	145.2	139.2	135.5	134.4
122.5°	370.2	313.6	263.1	224.6	198.4	178.0	163.3	153.4	147.9	144.1	143.0
125°	364.6	312.9	268.8	235.0	210.2	190.9	175.8	165.6	159.7	156.5	154.3
127.5°	356.9	311.7	273.4	243.9	221.2	202.5	187.3	176.6	169.9	166.1	164.3
130°	352.1	311.3	276.9	249.5	228.5	210.2	194.6	184.5	176.3	172.0	169.9
132.5°	347.9	310.9	279.9	255.1	234.5	216.2	201.5	190.5	182.9	177.2	175.5
135°	341.4	310.2	284.5	262.4	243.0	225.3	211.3	200.0	190.9	185.5	183.3
137.5°	335.8	310.1	287.1	267.6	249.5	232.9	219.6	207.8	199.2	193.2	191.2
140°	332.8	309.7	289.3	271.0	253.8	237.6	224.7	213.5	204.3	198.4	196.8
142.5°	330.3	309.7	291.0	273.5	257.7	242.0	229.5	218.6	209.9	204.4	202.8
145°	325.8	308.6	292.0	276.4	261.8	247.9	236.0	225.8	218.3	212.9	211.3
147.5°	321.9	306.7	292.5	278.8	266.2	253.1	242.4	233.8	226.1	221.4	220.8
150°	318.9	305.4	292.5	280.1	268.3	256.5	246.3	238.2	231.8	227.4	226.9
152.5°	315.4	303.2	291.6	281.0	270.0	259.5	250.2	242.9	236.9	232.6	232.5
155°	310.2	300.0	290.3	281.7	272.6	263.4	255.4	249.5	244.1	240.9	240.3
157.5°	305.0	296.7	289.0	281.7	274.5	266.6	260.3	255.1	251.0	248.0	248.0
160°	301.1	294.1	287.7	281.7	275.3	268.8	262.9	258.6	254.9	252.7	252.7
162.5°	297.7	291.5	286.3	281.7	276.2	270.1	265.5	261.6	258.3	256.6	257.0
165°	292.0	287.7	283.9	280.7	276.4	271.5	268.3	265.6	262.9	261.8	261.8
167.5°	286.8	283.8	281.3	279.4	276.3	272.7	270.2	268.7	266.6	266.2	266.6
170°	283.3	281.2	279.6	278.5	275.8	273.1	271.5	270.4	268.8	268.3	268.8
172.5°	280.3	278.6	277.9	277.7	275.4	273.5	272.4	271.7	270.5	270.4	271.0
175°	276.9	275.8	275.8	276.4	274.8	273.7	273.7	273.1	272.6	272.6	273.1
177.5°	274.6	274.1	274.1	274.9	274.1	273.7	273.7	273.7	273.2	273.7	274.1
180°	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7



TEST NUMBER: P332933-830

CATALOG NUMBER: SA4XXRDIP-C795D590U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2
2.5°	1251.8	1255.4	1259.4	1267.1	1273.5	1276.3	1281.9	1285.9	1284.7	1290.2	1300.0
5°	1256.7	1270.3	1285.8	1301.8	1319.8	1334.9	1346.9	1359.0	1368.5	1380.0	1397.0
7.5°	1255.9	1280.0	1306.2	1334.9	1364.5	1390.1	1413.7	1437.8	1459.2	1482.5	1513.1
10°	1252.7	1284.8	1317.4	1355.0	1392.5	1428.1	1460.2	1490.3	1518.9	1549.4	1588.1
12.5°	1249.1	1286.0	1325.4	1370.6	1417.4	1460.2	1497.9	1541.2	1577.1	1616.5	1661.0
15°	1233.1	1282.8	1336.4	1395.1	1451.2	1508.8	1560.5	1613.6	1663.2	1710.3	1766.5
17.5°	1214.9	1272.1	1335.4	1404.7	1472.2	1542.2	1603.5	1670.5	1721.2	1784.4	1836.5
20°	1200.0	1261.7	1329.4	1407.1	1483.8	1561.5	1629.2	1697.3	1754.4	1818.2	1884.3
22.5°	1182.0	1249.7	1323.0	1403.4	1483.8	1568.7	1643.6	1711.4	1782.2	1853.8	1922.0
25°	1152.9	1223.1	1300.8	1389.0	1481.3	1568.0	1648.2	1732.4	1808.6	1886.3	1947.5
27.5°	1117.3	1190.9	1272.8	1363.9	1458.5	1547.4	1641.8	1731.5	1808.2	1883.0	1936.4
30°	1088.7	1166.5	1245.2	1337.4	1435.7	1530.9	1632.2	1721.9	1802.6	1869.8	1899.9
32.5°	1059.5	1133.2	1214.3	1307.8	1408.3	1510.9	1611.3	1703.1	1777.7	1818.1	1818.8
35°	1008.6	1077.7	1162.0	1253.7	1357.0	1468.3	1570.0	1660.2	1705.8	1709.4	1660.2
37.5°	953.0	1016.5	1096.0	1187.8	1300.9	1411.6	1515.6	1575.7	1590.9	1539.9	1449.1
40°	913.3	971.9	1048.7	1142.9	1255.2	1369.5	1464.2	1508.4	1492.3	1409.6	1308.3
42.5°	871.7	926.2	1000.1	1093.2	1205.9	1321.4	1402.0	1425.8	1383.3	1287.7	1169.2
45°	803.5	853.7	926.9	1020.6	1128.9	1237.2	1298.4	1286.3	1215.6	1102.3	969.5
47.5°	732.6	781.1	847.0	933.7	1044.5	1138.0	1179.4	1143.1	1042.5	917.9	809.8
50°	685.8	735.4	796.1	878.7	980.0	1070.3	1096.8	1041.7	929.9	810.0	710.8
52.5°	639.6	682.0	741.5	821.4	918.2	994.5	1008.6	945.0	829.6	722.3	634.2
55°	569.5	608.0	658.2	733.4	817.1	881.7	874.2	792.5	687.8	596.1	526.9
57.5°	501.6	530.7	576.9	647.4	721.0	764.3	736.9	667.2	569.6	494.5	436.1
60°	456.7	483.7	526.9	588.5	653.2	677.7	654.7	579.0	501.8	433.1	384.0
62.5°	414.2	438.0	475.1	532.3	584.6	599.2	574.5	508.4	438.8	380.1	339.5
65°	352.4	374.5	406.0	446.7	482.8	489.7	473.7	406.0	353.4	304.3	276.2
67.5°	296.3	310.8	335.5	370.5	389.7	393.8	362.8	320.3	273.9	243.7	222.5
70°	258.6	268.7	291.7	310.8	326.3	326.9	298.2	264.2	228.6	204.1	188.5
72.5°	222.2	231.8	249.2	262.3	274.2	270.3	244.1	217.3	188.5	169.9	158.4
75°	171.4	179.9	189.0	195.0	195.0	190.0	171.0	150.9	134.3	123.3	119.8
77.5°	124.6	131.7	134.7	133.7	132.0	124.1	112.1	99.0	93.0	87.8	85.2
80°	97.7	100.8	101.8	99.2	96.2	87.2	79.2	73.7	68.1	66.2	65.1
82.5°	72.5	75.1	72.5	73.1	66.5	59.2	54.8	52.9	50.5	49.8	48.7
85°	38.6	38.1	37.1	34.6	30.1	29.0	28.6	28.1	27.1	27.6	26.6
87.5°	13.6	12.6	11.2	10.8	10.8	10.7	11.1	11.3	11.6	11.0	12.0
90°	1.6	3.2	3.8	4.3	4.3	7.5	7.5	8.6	9.7	9.1	9.7
92.5°	9.0	13.9	20.5	28.4	39.6	66.9	108.6	149.3	170.5	142.0	105.6
95°	19.3	24.7	31.8	44.6	67.2	114.0	202.2	330.6	438.2	450.5	398.4
97.5°	31.9	36.5	42.9	54.0	73.0	109.0	181.7	309.5	461.6	566.1	588.6
100°	40.9	44.6	51.1	61.3	78.5	110.2	171.0	280.7	432.3	570.0	648.5
102.5°	50.3	53.6	59.7	69.5	85.8	114.5	168.0	261.3	395.8	537.6	645.5
105°	64.6	67.2	73.7	83.3	99.0	124.7	169.4	244.7	352.7	479.1	602.2
107.5°	78.8	81.5	88.4	97.6	113.0	136.7	177.3	241.7	328.7	431.8	540.8
110°	88.7	91.4	97.8	107.5	122.1	145.7	183.3	242.5	320.5	408.1	503.8



TEST NUMBER: P332933-830

CATALOG NUMBER: SA4XXRDIP-C795D590U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	98.2	101.3	107.4	117.0	131.5	154.3	189.8	245.1	316.6	394.7	476.7
115°	112.4	116.1	121.5	131.8	146.3	167.8	200.0	250.1	314.5	382.3	449.5
117.5°	126.5	129.8	135.7	145.2	160.3	180.8	210.5	255.2	314.0	376.7	436.1
120°	135.5	139.2	145.2	154.3	169.4	189.8	217.7	259.2	314.0	373.7	430.2
122.5°	144.1	147.9	153.4	163.3	178.0	198.4	224.6	263.1	313.6	370.2	425.0
125°	156.5	159.7	165.6	175.8	190.9	210.2	235.0	268.8	312.9	364.6	416.1
127.5°	166.1	169.9	176.6	187.3	202.5	221.2	243.9	273.4	311.7	356.9	405.4
130°	172.0	176.3	184.5	194.6	210.2	228.5	249.5	276.9	311.3	352.1	396.8
132.5°	177.2	182.9	190.5	201.5	216.2	234.5	255.1	279.9	310.9	347.9	387.8
135°	185.5	190.9	200.0	211.3	225.3	243.0	262.4	284.5	310.2	341.4	375.3
137.5°	193.2	199.2	207.8	219.6	232.9	249.5	267.6	287.1	310.1	335.8	364.0
140°	198.4	204.3	213.5	224.7	237.6	253.8	271.0	289.3	309.7	332.8	357.5
142.5°	204.4	209.9	218.6	229.5	242.0	257.7	273.5	291.0	309.7	330.3	351.6
145°	212.9	218.3	225.8	236.0	247.9	261.8	276.4	292.0	308.6	325.8	343.0
147.5°	221.4	226.1	233.8	242.4	253.1	266.2	278.8	292.5	306.7	321.9	336.0
150°	227.4	231.8	238.2	246.3	256.5	268.3	280.1	292.5	305.4	318.9	331.8
152.5°	232.6	236.9	242.9	250.2	259.5	270.0	281.0	291.6	303.2	315.4	327.0
155°	240.9	244.1	249.5	255.4	263.4	272.6	281.7	290.3	300.0	310.2	319.9
157.5°	248.0	251.0	255.1	260.3	266.6	274.5	281.7	289.0	296.7	305.0	312.3
160°	252.7	254.9	258.6	262.9	268.8	275.3	281.7	287.7	294.1	301.1	307.6
162.5°	256.6	258.3	261.6	265.5	270.1	276.2	281.7	286.3	291.5	297.7	302.8
165°	261.8	262.9	265.6	268.3	271.5	276.4	280.7	283.9	287.7	292.0	296.2
167.5°	266.2	266.6	268.7	270.2	272.7	276.3	279.4	281.3	283.8	286.8	289.9
170°	268.3	268.8	270.4	271.5	273.1	275.8	278.5	279.6	281.2	283.3	286.1
172.5°	270.4	270.5	271.7	272.4	273.5	275.4	277.7	277.9	278.6	280.3	282.6
175°	272.6	272.6	273.1	273.7	273.7	274.8	276.4	275.8	275.8	276.9	278.0
177.5°	273.7	273.2	273.7	273.7	273.7	274.1	274.9	274.1	274.1	274.6	274.9
180°	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7



TEST NUMBER: P332933-830

CATALOG NUMBER: SA4XXRDIP-C795D590U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2	1244.2
2.5°	1305.1	1306.7	1308.0	1311.9	1312.3	1316.0	1312.3
5°	1413.1	1420.1	1431.2	1442.2	1443.2	1450.2	1437.7
7.5°	1534.2	1550.5	1560.6	1578.4	1585.5	1589.9	1582.6
10°	1617.6	1632.7	1659.3	1672.3	1685.3	1687.3	1681.3
12.5°	1698.3	1722.1	1743.0	1767.7	1767.1	1784.8	1778.3
15°	1805.6	1830.1	1859.3	1886.8	1896.9	1896.9	1904.9
17.5°	1882.2	1927.2	1957.3	1979.0	2002.6	2006.7	2003.9
20°	1933.9	1982.5	2014.7	2042.7	2058.8	2063.2	2063.2
22.5°	1972.5	2013.8	2045.1	2070.4	2083.6	2089.0	2087.4
25°	1999.1	2034.7	2053.7	2061.2	2064.7	2063.8	2054.3
27.5°	1962.6	1961.0	1949.0	1925.9	1908.6	1898.0	1886.0
30°	1892.8	1866.8	1836.7	1803.6	1761.0	1728.4	1718.3
32.5°	1788.9	1730.4	1679.5	1624.4	1578.6	1546.0	1532.3
35°	1588.1	1495.3	1419.7	1353.5	1305.3	1275.3	1265.3
37.5°	1349.6	1259.9	1166.2	1102.0	1062.2	1031.7	1020.4
40°	1198.1	1100.3	1018.6	958.5	917.4	887.8	887.3
42.5°	1059.7	966.4	889.5	846.1	801.8	782.3	782.2
45°	867.7	793.1	727.8	693.8	667.2	651.2	646.7
47.5°	718.4	656.7	613.2	586.1	564.4	554.2	547.6
50°	634.6	580.5	545.9	522.4	510.3	497.3	496.2
52.5°	564.9	521.1	494.2	475.0	459.8	451.9	452.1
55°	474.7	440.2	421.0	406.5	394.5	388.5	386.0
57.5°	399.9	374.0	360.1	346.8	341.7	337.0	335.6
60°	353.4	335.8	322.8	312.3	304.8	303.3	302.7
62.5°	314.9	296.5	287.6	279.4	273.9	271.5	270.7
65°	259.7	246.1	238.1	231.6	229.6	226.1	225.6
67.5°	209.3	201.2	195.9	191.4	188.7	188.5	188.5
70°	178.4	173.9	169.5	166.9	165.4	164.4	164.4
72.5°	152.0	148.6	145.0	143.6	143.4	142.3	141.9
75°	115.8	112.3	112.8	110.3	108.3	105.8	104.2
77.5°	82.1	79.6	79.1	78.8	77.1	76.8	77.6
80°	63.6	61.2	60.7	61.2	60.7	59.2	59.2
82.5°	48.4	46.3	45.8	45.5	45.1	45.5	44.7
85°	26.1	25.1	25.1	25.1	26.1	25.5	25.1
87.5°	11.3	10.9	11.4	11.1	11.2	10.7	11.1
90°	10.2	10.7	10.7	11.3	11.8	11.3	11.3
92.5°	79.5	63.2	52.5	46.1	43.3	41.4	41.4
95°	315.1	243.0	190.9	164.6	147.9	138.2	131.2
97.5°	557.7	505.1	448.9	410.4	378.0	361.8	350.6
100°	659.2	632.8	593.0	546.3	513.5	497.4	493.0
102.5°	698.8	706.4	689.8	661.1	637.3	620.4	616.9
105°	695.2	748.5	770.5	771.6	767.2	759.7	756.5
107.5°	639.8	714.8	762.7	789.3	801.5	806.9	808.3
110°	596.8	674.8	734.0	772.1	794.7	804.4	809.2



TEST NUMBER: P332933-830

CATALOG NUMBER: SA4XXRDIP-C795D590U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	558.9	632.6	691.7	735.1	762.4	776.0	783.8
115°	515.7	578.5	630.2	672.6	704.9	722.1	726.4
117.5°	490.9	540.4	584.1	620.4	647.4	664.9	668.3
120°	480.1	523.1	561.3	592.0	615.7	629.6	635.6
122.5°	473.3	512.4	545.8	571.7	592.0	603.8	609.7
125°	462.4	499.5	529.0	550.5	566.2	576.4	579.6
127.5°	449.6	486.6	514.6	536.3	550.2	558.7	561.9
130°	439.3	475.8	504.4	526.4	539.8	548.5	551.7
132.5°	427.6	463.4	491.8	513.5	528.7	536.8	540.1
135°	410.3	443.0	470.0	491.4	506.5	515.1	518.3
137.5°	393.6	421.2	445.5	465.6	480.5	487.6	491.4
140°	382.9	407.0	429.6	448.5	460.2	467.8	472.1
142.5°	373.8	394.5	414.2	430.7	441.8	448.5	451.4
145°	361.3	377.5	392.5	406.0	415.1	420.5	423.1
147.5°	350.5	363.4	375.3	385.2	393.0	397.1	398.1
150°	344.1	354.9	364.6	373.2	380.1	383.3	383.9
152.5°	337.6	347.5	355.5	362.8	368.5	370.4	371.0
155°	328.5	336.6	343.0	348.5	352.7	354.3	354.3
157.5°	319.5	326.2	331.4	335.5	338.7	339.7	339.7
160°	313.5	319.3	323.7	326.9	330.2	330.6	330.6
162.5°	307.8	312.5	316.4	318.8	322.0	322.5	322.1
165°	299.4	303.2	305.9	308.1	310.2	309.7	309.2
167.5°	292.4	295.4	297.0	298.1	299.4	299.4	299.0
170°	287.7	289.8	291.4	292.5	293.0	292.5	292.5
172.5°	283.8	285.1	286.3	286.9	287.5	286.9	286.1
175°	278.5	279.6	279.6	279.6	280.7	279.6	278.5
177.5°	275.4	275.4	275.8	275.4	275.8	274.9	274.1
180°	273.7	273.7	273.7	273.7	273.7	273.7	273.7

(END OF REPORT)