

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: P331413-930

Luminaire Tested: **SA2XXDIP-C865D1080U930-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331413-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C865D1080U930-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1080 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

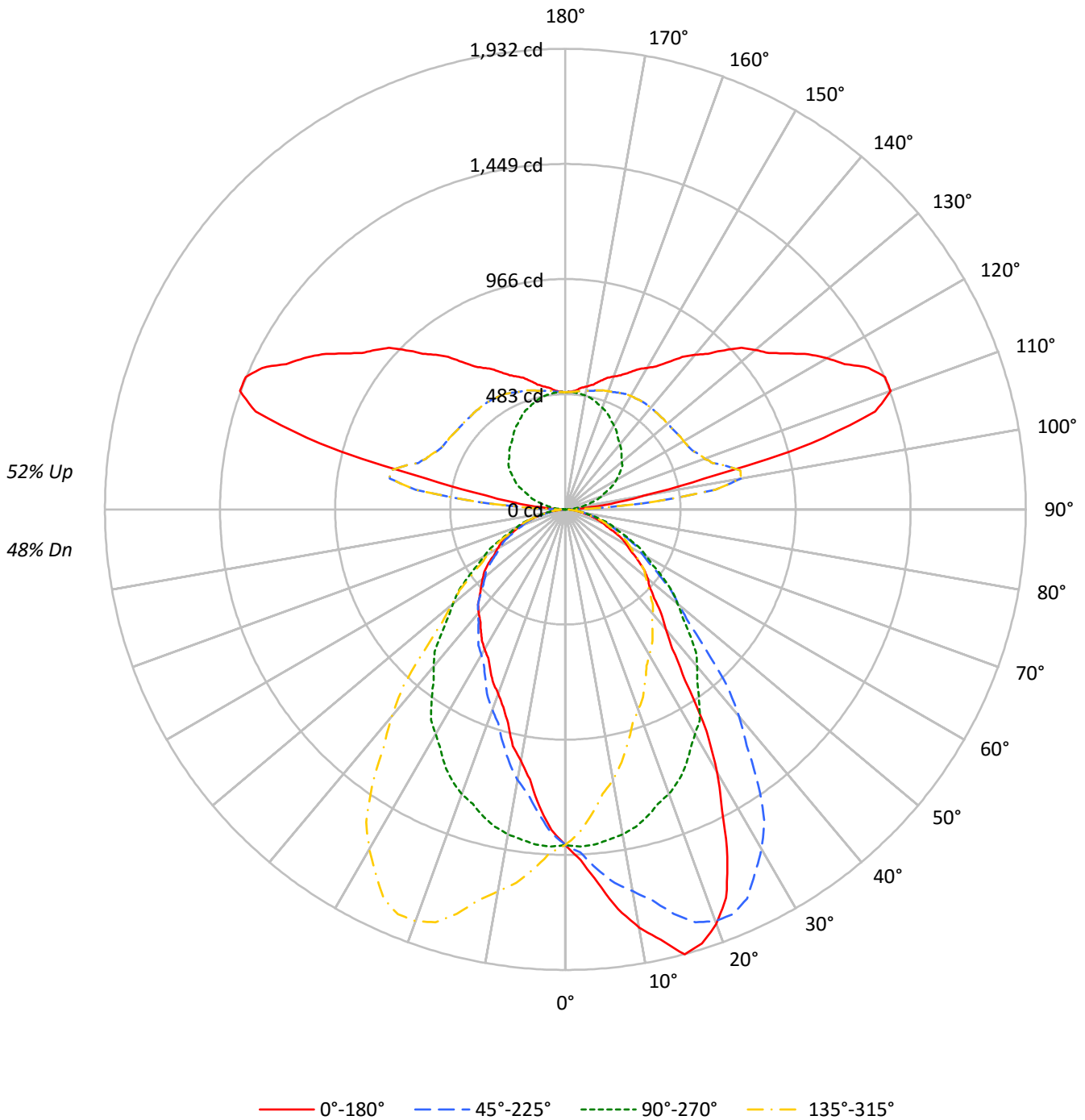
Lumens per Lamp: N/A
Luminaire Lumens: 6537.1 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 65.4
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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48				48
1	98	94	90	86	90	86	83	80	73	70	68	60	58	57	48	47	46				41	
2	89	82	76	71	82	76	71	67	64	60	57	53	51	48	43	41	40				35	
3	82	73	66	60	75	67	61	56	57	52	49	47	44	41	39	36	34				30	
4	75	65	57	51	69	60	53	48	51	46	42	43	39	36	35	32	30				26	
5	69	58	50	44	63	54	47	41	46	40	36	38	34	31	32	29	26				23	
6	64	52	44	38	59	48	41	36	41	36	32	35	31	28	29	26	24				21	
7	59	47	39	34	54	44	37	32	38	32	28	32	28	25	26	23	21				18	
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19				17	
9	51	39	32	27	47	37	30	26	32	26	23	27	23	20	23	20	17				15	
10	48	36	29	24	44	34	27	23	29	24	21	25	21	18	21	18	16				14	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	22727	22727	22727	22727
5°	25480	22875	20272	22875
10°	29198	22689	17544	22689
15°	32301	22272	15499	22272
20°	31809	21825	14129	21825
25°	28682	21232	13261	21232
30°	23702	20282	12629	20282
35°	17274	19291	12177	19291
40°	13797	18120	11927	18120
45°	12056	16762	11586	16762
50°	11333	15450	11359	15450
55°	10446	14117	11054	14117
60°	9571	12700	10585	12700
65°	8722	11427	10128	11427
70°	7917	10192	9451	10192
75°	7018	8808	8372	8808
80°	6034	7290	6741	7290
85°	5409	5409	4001	5409



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.1	2.1
10°-20°	389.7	6.0
20°-30°	565.6	8.7
30°-40°	596.9	9.1
40°-50°	528.5	8.1
50°-60°	421.7	6.5
60°-70°	286.7	4.4
70°-80°	147.0	2.2
80°-90°	39.9	0.6
90°-100°	196.9	3.0
100°-110°	668.2	10.2
110°-120°	709.9	10.9
120°-130°	584.4	8.9
130°-140°	469.3	7.2
140°-150°	354.6	5.4
150°-160°	249.2	3.8
160°-170°	146.7	2.2
170°-180°	47.8	0.7
0°-30°	1089.4	16.7
0°-40°	1686.3	25.8
0°-60°	2636.5	40.3
0°-90°	3110.0	47.6
90°-120°	1575.1	24.1
90°-150°	2983.4	45.6
90°-180°	3427.0	52.4
0°-180°	6537.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1408	1408	1408	1408	1408	
5°	1572	1411	1251	1411	1572	157
15°	1932	1332	927	1332	1932	533
25°	1610	1192	744	1192	1610	728
35°	876	979	618	979	876	570
45°	528	734	507	734	528	415
55°	371	502	393	502	371	333
65°	228	299	265	299	228	227
75°	112	141	134	141	112	120
85°	29	29	22	29	29	33
90°	31	1	31	1	31	18
95°	108	33	108	33	108	140
105°	1067	116	1067	116	1067	1033
115°	1405	204	1405	204	1405	1375
125°	1139	284	1139	284	1139	1030
135°	944	333	944	333	944	734
145°	754	381	754	381	754	479
155°	634	433	634	433	634	296
165°	556	472	556	472	556	159
175°	501	492	501	492	501	49
180°	492	492	492	492	492	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1472.6	1473.0	1473.9	1467.0	1466.1	1466.1	1460.0	1454.8	1448.8	1440.6	1441.4
5°	1572.1	1578.1	1580.2	1573.8	1564.0	1562.9	1553.7	1538.6	1524.5	1513.1	1505.0
7.5°	1690.9	1693.3	1688.0	1679.4	1672.2	1659.2	1642.1	1625.4	1601.9	1580.4	1564.3
10°	1780.9	1784.2	1775.0	1762.5	1752.2	1737.1	1712.2	1686.8	1656.0	1626.2	1602.4
12.5°	1849.3	1857.3	1845.5	1843.9	1826.3	1805.5	1775.9	1763.0	1719.6	1678.1	1652.6
15°	1932.4	1931.9	1933.0	1922.6	1909.7	1906.4	1875.1	1841.0	1779.9	1755.5	1713.4
17.5°	1908.4	1916.6	1920.4	1920.3	1919.9	1917.9	1907.9	1886.4	1855.7	1816.2	1767.5
20°	1851.3	1862.1	1863.7	1876.2	1883.2	1892.4	1896.1	1890.2	1871.3	1838.3	1796.1
22.5°	1763.0	1766.0	1771.1	1790.5	1805.7	1828.8	1840.8	1860.8	1853.5	1837.4	1802.1
25°	1610.0	1604.6	1623.5	1633.2	1668.4	1705.2	1731.7	1760.9	1786.9	1802.5	1792.3
27.5°	1426.3	1418.1	1446.5	1472.3	1500.9	1540.8	1582.1	1630.8	1671.4	1722.2	1739.6
30°	1271.3	1276.2	1303.3	1330.8	1374.1	1430.4	1476.9	1530.5	1588.4	1645.1	1684.7
32.5°	1104.2	1123.0	1140.1	1182.3	1220.5	1283.2	1351.4	1418.4	1490.5	1555.1	1616.2
35°	876.4	898.1	921.9	952.7	1006.2	1068.4	1135.0	1225.3	1323.8	1412.0	1484.5
37.5°	737.7	734.3	747.9	770.1	813.5	863.7	940.4	1029.6	1145.5	1249.1	1351.4
40°	654.6	652.4	662.2	682.7	715.8	752.5	819.6	898.1	1005.7	1132.3	1254.0
42.5°	597.5	598.8	604.1	618.6	641.3	671.6	721.8	788.6	887.1	1006.3	1137.2
45°	528.0	531.8	537.8	544.8	557.7	582.6	610.7	658.4	736.3	835.8	964.6
47.5°	478.0	478.1	484.2	490.3	498.1	512.1	535.0	564.9	619.9	700.9	811.6
50°	451.2	447.4	451.8	456.6	464.7	474.4	489.6	517.7	554.5	620.0	712.5
52.5°	418.3	418.4	422.3	424.1	431.4	441.2	454.9	474.4	507.8	559.0	635.0
55°	371.1	373.8	376.0	379.2	385.7	392.7	403.6	416.5	442.5	480.9	537.2
57.5°	326.8	327.6	329.8	336.0	340.1	346.6	356.9	368.6	385.5	413.9	456.2
60°	296.4	296.4	300.8	303.5	308.9	315.4	323.5	334.8	350.0	373.2	407.4
62.5°	268.8	268.3	270.0	274.5	278.6	284.7	292.8	302.4	316.7	337.4	365.4
65°	228.3	227.2	230.5	231.5	235.9	241.8	248.3	258.6	269.9	285.1	310.0
67.5°	189.3	190.6	192.4	194.4	196.8	203.1	207.4	214.7	224.3	236.8	253.7
70°	167.7	167.7	167.7	169.3	172.6	175.9	180.2	186.1	195.3	206.1	221.3
72.5°	143.5	145.2	146.9	145.9	150.1	152.1	157.2	160.5	169.3	176.3	189.6
75°	112.5	112.5	112.5	115.2	116.8	118.5	121.7	125.0	129.3	137.9	145.0
77.5°	84.0	83.7	84.3	85.0	86.7	88.6	89.6	92.5	96.5	100.5	106.5
80°	64.9	66.0	66.5	67.6	67.6	68.7	69.2	73.1	75.7	78.4	82.3
82.5°	50.2	50.4	50.5	50.7	51.2	51.9	53.2	54.5	55.4	57.6	60.6
85°	29.2	28.7	28.7	29.8	29.2	29.2	30.3	31.4	31.4	31.9	33.5
87.5°	17.5	17.5	17.9	17.5	17.5	17.8	17.4	17.3	17.9	18.6	18.8
90°	31.2	31.2	31.2	31.2	31.2	30.3	28.5	30.3	31.2	32.2	31.2
92.5°	52.5	54.0	53.2	56.3	57.0	62.9	70.8	82.6	104.0	123.1	121.4
95°	107.9	107.0	109.9	117.4	129.7	150.6	190.4	248.2	324.9	371.3	328.6
97.5°	212.5	220.5	234.3	257.6	302.9	371.3	473.8	579.0	664.9	633.8	477.4
100°	339.1	356.1	383.6	424.3	502.9	617.5	747.3	864.7	884.6	748.2	515.2
102.5°	596.7	619.8	654.1	723.6	809.0	930.4	1025.3	1051.9	966.5	752.0	500.8
105°	1067.4	1080.7	1121.4	1180.1	1238.8	1270.1	1257.8	1150.7	953.7	701.8	472.6
107.5°	1363.4	1381.0	1389.2	1392.4	1385.0	1339.2	1240.7	1079.5	870.6	648.0	458.6
110°	1452.9	1453.8	1445.3	1427.3	1386.6	1308.9	1187.6	1018.1	818.3	622.2	455.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1451.3	1446.3	1430.1	1400.0	1343.4	1254.3	1124.8	962.1	782.0	605.6	456.3
115°	1404.6	1396.0	1371.4	1327.9	1260.6	1163.0	1039.0	893.2	736.9	587.2	460.3
117.5°	1321.0	1313.9	1287.8	1241.9	1173.3	1081.8	969.3	841.2	708.4	578.3	467.1
120°	1267.2	1257.8	1230.3	1185.8	1119.5	1033.3	932.9	815.5	693.2	573.0	471.7
122.5°	1211.1	1203.2	1178.8	1135.0	1075.5	997.7	902.6	795.0	680.4	570.0	477.0
125°	1139.4	1131.8	1108.2	1072.1	1017.2	946.2	862.8	765.2	662.0	564.5	484.9
127.5°	1076.5	1070.4	1049.9	1016.3	968.3	902.8	824.2	735.9	645.0	561.3	493.1
130°	1040.9	1033.3	1014.4	982.2	935.7	873.3	798.4	717.0	633.7	559.7	499.1
132.5°	1003.7	996.9	979.5	947.3	901.6	842.9	774.2	698.8	624.5	559.0	505.2
135°	944.3	940.4	923.4	892.2	851.4	798.4	735.9	673.4	611.8	557.8	512.4
137.5°	885.9	880.3	865.3	838.4	801.3	755.0	705.4	653.1	602.9	557.7	518.9
140°	845.8	840.1	825.9	801.3	770.9	729.3	685.7	640.3	597.6	556.9	521.9
142.5°	805.6	804.5	791.8	769.4	740.6	705.8	668.3	629.7	592.3	556.9	524.2
145°	753.9	751.1	741.6	725.5	702.8	675.3	646.0	614.7	585.3	555.0	526.6
147.5°	710.5	708.8	702.4	689.5	670.7	650.7	627.8	603.2	578.1	551.6	527.3
150°	684.8	683.8	678.2	666.8	652.6	635.5	615.6	594.8	572.0	549.3	526.6
152.5°	662.8	662.6	658.4	648.6	637.4	622.6	605.8	586.4	566.7	545.5	525.1
155°	633.7	635.5	631.7	625.1	614.7	604.2	590.0	574.9	556.9	538.9	522.8
157.5°	608.8	608.8	607.1	601.6	594.2	586.0	574.1	561.4	547.6	532.1	518.4
160°	592.9	592.9	591.9	587.2	580.6	574.0	563.5	553.1	540.8	527.6	516.2
162.5°	577.7	578.5	577.6	574.3	567.7	562.6	553.7	544.8	534.8	523.7	513.9
165°	556.0	556.9	556.9	553.1	549.3	545.5	538.9	532.3	524.7	516.2	509.6
167.5°	535.9	537.0	537.2	535.1	533.5	530.0	525.5	520.3	514.9	509.6	505.2
170°	523.7	525.6	526.6	523.7	522.8	520.9	517.1	514.3	509.6	505.7	502.9
172.5°	513.9	515.0	516.0	514.7	513.7	512.6	509.6	507.4	504.3	501.2	499.9
175°	501.0	502.9	503.9	502.9	502.9	502.0	501.0	500.1	497.3	496.3	495.4
177.5°	493.3	494.8	495.5	495.5	495.5	495.5	494.8	494.8	493.3	492.5	493.3
180°	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1444.5	1441.0	1438.8	1431.0	1424.1	1417.2	1415.0	1415.8	1406.4	1397.3	1393.3
5°	1500.7	1489.9	1479.6	1465.0	1447.7	1428.7	1419.0	1411.4	1392.5	1372.0	1360.1
7.5°	1551.1	1535.6	1515.9	1488.4	1463.1	1433.4	1414.5	1397.7	1370.0	1341.0	1323.2
10°	1581.8	1560.7	1535.3	1501.8	1471.0	1434.7	1409.2	1383.9	1351.4	1316.8	1295.1
12.5°	1608.3	1579.8	1554.8	1511.7	1475.3	1430.0	1399.8	1363.9	1329.8	1288.7	1267.5
15°	1671.1	1618.6	1571.0	1522.3	1477.4	1414.1	1380.6	1332.4	1287.5	1236.7	1212.4
17.5°	1719.7	1660.8	1585.8	1523.9	1471.5	1401.4	1352.2	1294.5	1241.4	1183.2	1150.1
20°	1747.4	1679.8	1599.1	1525.6	1462.8	1382.7	1329.2	1270.2	1208.0	1142.6	1106.9
22.5°	1763.8	1692.7	1613.0	1519.1	1445.5	1367.6	1300.2	1235.6	1172.6	1101.9	1064.5
25°	1769.0	1704.1	1619.8	1513.7	1423.9	1335.7	1254.6	1191.8	1115.5	1049.5	994.9
27.5°	1743.3	1696.7	1615.6	1503.5	1398.9	1295.8	1205.3	1134.2	1053.8	982.1	927.2
30°	1711.7	1684.7	1605.7	1493.1	1379.0	1268.1	1168.6	1087.9	1007.9	935.4	879.1
32.5°	1662.8	1656.9	1587.5	1478.4	1357.8	1233.1	1130.0	1048.6	959.9	888.6	834.9
35°	1566.7	1592.7	1548.8	1445.5	1317.8	1183.2	1071.7	978.7	886.7	818.5	768.2
37.5°	1437.9	1502.4	1490.9	1397.3	1264.0	1128.9	1005.8	908.6	820.9	752.1	702.7
40°	1349.2	1431.4	1443.3	1360.6	1225.9	1086.9	956.5	859.7	774.1	711.4	661.6
42.5°	1254.0	1350.1	1382.7	1316.5	1184.3	1042.7	912.3	812.0	727.4	666.4	622.2
45°	1094.5	1221.6	1280.5	1242.7	1115.0	970.0	835.8	734.1	657.3	600.0	565.9
47.5°	945.2	1084.1	1163.4	1150.1	1037.8	894.2	761.6	664.0	589.2	543.5	513.0
50°	839.6	982.4	1078.2	1082.6	982.4	840.2	707.1	615.1	546.4	503.7	478.7
52.5°	747.9	884.2	988.6	1011.5	920.6	783.9	658.2	566.6	506.1	466.8	444.6
55°	628.1	743.3	859.1	901.3	828.3	698.4	582.1	501.5	444.7	417.7	398.2
57.5°	522.2	618.2	725.1	771.8	726.8	615.6	506.5	436.6	390.4	366.8	351.9
60°	466.4	542.1	637.3	693.0	654.0	555.1	459.8	393.3	355.5	334.4	320.2
62.5°	414.4	481.5	562.0	612.9	591.7	498.4	413.1	354.3	321.6	301.9	291.7
65°	341.9	394.9	457.1	504.2	490.2	419.2	349.5	299.1	273.2	257.5	249.4
67.5°	281.5	319.8	363.0	404.2	392.9	342.7	286.6	247.4	228.1	214.6	209.7
70°	243.4	272.6	311.0	344.1	334.8	293.8	249.4	215.9	199.1	187.8	182.9
72.5°	207.1	231.1	260.4	287.4	281.2	247.0	210.0	184.7	171.8	161.3	157.4
75°	156.4	174.7	192.6	210.4	208.8	182.3	160.7	141.2	130.9	122.8	121.2
77.5°	115.4	125.7	137.9	148.5	145.5	130.4	113.4	102.2	94.7	89.3	88.4
80°	88.2	94.2	102.8	110.4	106.6	100.1	86.6	78.4	73.1	67.6	65.5
82.5°	63.9	69.9	75.1	79.2	76.3	70.2	61.9	56.3	53.2	49.4	48.6
85°	33.5	36.8	39.0	40.0	39.0	35.1	31.4	29.2	26.5	24.9	24.4
87.5°	18.1	16.8	15.8	16.1	14.4	14.1	11.6	9.7	9.9	10.2	9.7
90°	25.6	18.9	14.2	11.3	9.5	7.6	3.8	1.0	3.8	7.6	9.5
92.5°	94.5	64.4	43.0	34.1	27.6	23.5	16.6	11.6	16.6	23.5	27.6
95°	218.7	136.4	92.8	70.1	55.0	46.4	36.9	33.2	36.9	46.4	55.0
97.5°	294.7	179.9	125.2	99.5	82.0	69.1	59.1	54.0	59.1	69.1	82.0
100°	310.6	195.1	144.9	118.4	99.5	84.3	75.7	72.9	75.7	84.3	99.5
102.5°	311.4	208.7	162.3	135.8	116.1	100.9	92.5	90.3	92.5	100.9	116.1
105°	316.3	232.0	187.5	161.0	140.1	126.0	119.4	115.5	119.4	126.0	140.1
107.5°	329.4	255.9	212.7	186.1	165.3	152.3	145.9	142.8	145.9	152.3	165.3
110°	340.0	271.8	230.2	202.7	182.8	170.5	164.8	161.0	164.8	170.5	182.8



TEST NUMBER: P331413-930

CATALOG NUMBER: SA2XXDIP-C865D1080U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	351.4	287.0	246.8	218.6	199.4	187.9	181.5	177.7	181.5	187.9	199.4
115°	368.4	310.6	269.9	244.3	225.4	214.0	208.4	203.7	208.4	214.0	225.4
117.5°	386.6	332.4	294.7	268.2	250.1	240.0	234.3	230.6	234.3	240.0	250.1
120°	398.8	347.6	310.6	284.1	265.2	256.7	250.9	247.2	250.9	256.7	265.2
122.5°	409.4	362.0	327.3	300.0	281.1	271.8	266.1	263.1	266.1	271.8	281.1
125°	426.2	383.6	349.5	322.9	304.0	292.7	287.0	284.1	287.0	292.7	304.0
127.5°	441.9	403.7	370.5	343.2	325.1	312.6	304.6	300.8	304.6	312.6	325.1
130°	451.8	415.8	382.6	356.1	337.2	323.9	314.5	310.6	314.5	323.9	337.2
132.5°	461.6	426.4	394.8	368.3	348.5	334.5	324.3	319.8	324.3	334.5	348.5
135°	474.5	441.3	411.1	384.5	362.7	348.5	337.2	333.4	337.2	348.5	362.7
137.5°	484.4	453.5	423.5	398.9	377.3	362.2	350.8	346.3	350.8	362.2	377.3
140°	489.7	460.3	431.9	407.2	386.5	371.3	359.9	356.1	359.9	371.3	386.5
142.5°	494.2	465.6	438.0	414.8	394.8	379.6	369.0	366.0	369.0	379.6	394.8
145°	500.1	473.5	448.0	427.1	408.2	394.0	384.5	380.7	384.5	394.0	408.2
147.5°	503.3	480.0	455.9	437.4	421.7	408.5	399.5	396.6	399.5	408.5	421.7
150°	504.8	483.1	461.2	444.2	430.0	417.7	410.1	407.2	410.1	417.7	430.0
152.5°	505.6	486.1	466.5	451.0	437.6	426.7	419.2	417.8	419.2	426.7	437.6
155°	506.7	490.6	474.5	460.3	449.9	439.4	433.7	432.8	433.7	439.4	449.9
157.5°	506.7	493.8	480.2	468.2	459.9	450.9	446.3	445.3	446.3	450.9	459.9
160°	506.7	495.4	484.0	473.5	465.9	458.4	454.6	453.6	454.6	458.4	465.9
162.5°	506.0	496.1	486.2	478.1	471.2	465.2	461.5	462.0	461.5	465.2	471.2
165°	503.9	497.3	488.7	483.1	478.3	472.6	470.8	471.7	470.8	472.6	478.3
167.5°	502.6	497.0	490.8	487.2	483.8	480.2	478.5	479.6	478.5	480.2	483.8
170°	501.0	496.3	491.5	488.7	486.8	484.0	483.1	484.9	483.1	484.0	486.8
172.5°	498.7	495.5	492.3	490.2	489.1	486.2	486.8	488.0	486.8	486.2	489.1
175°	496.3	494.4	492.5	491.5	491.5	489.7	490.6	491.5	490.6	489.7	491.5
177.5°	494.8	493.3	492.5	492.5	492.5	491.0	491.7	493.3	491.7	491.0	492.5
180°	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5



TEST NUMBER: P331413-930

CATALOG NUMBER: SA2XXDIP-C865D1080U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1389.0	1386.4	1377.4	1372.6	1364.8	1357.5	1352.7	1354.9	1356.6	1355.7	1354.5
5°	1349.2	1339.0	1323.2	1309.7	1300.0	1282.1	1274.6	1270.8	1267.5	1263.7	1260.0
7.5°	1301.9	1285.6	1263.1	1243.8	1225.6	1203.5	1190.8	1183.2	1175.5	1166.9	1159.4
10°	1268.1	1245.4	1221.6	1194.5	1172.9	1152.8	1135.0	1123.1	1112.3	1102.0	1094.5
12.5°	1232.6	1206.4	1177.0	1140.0	1116.1	1087.5	1084.8	1063.8	1046.9	1040.6	1031.7
15°	1176.2	1139.3	1102.0	1058.2	1039.3	1013.3	997.0	980.8	966.2	955.9	953.2
17.5°	1112.0	1064.4	1027.2	995.7	964.7	938.1	923.2	910.2	898.1	884.4	882.6
20°	1063.1	1021.9	981.4	953.7	921.9	894.8	876.4	863.4	853.1	845.1	838.0
22.5°	1016.8	971.8	934.6	904.4	872.9	851.1	836.6	824.0	815.5	806.5	799.9
25°	942.4	907.3	866.7	832.6	806.6	792.6	780.6	769.8	764.4	758.5	750.9
27.5°	877.3	838.3	800.4	774.0	751.1	738.7	730.3	722.8	717.8	714.3	710.0
30°	831.5	792.0	762.2	736.3	717.4	704.9	699.5	695.2	689.3	687.1	684.9
32.5°	787.3	751.8	726.4	703.8	685.7	677.7	672.7	668.8	664.1	661.9	657.6
35°	725.0	695.2	670.3	657.9	643.3	636.2	632.4	627.0	622.6	620.5	620.0
37.5°	666.2	640.3	623.9	608.0	601.8	597.5	592.3	588.6	587.3	586.9	586.4
40°	628.1	607.0	592.4	579.4	576.7	570.2	565.9	562.6	562.6	563.2	562.6
42.5°	593.5	574.5	561.7	550.4	547.2	543.4	539.1	538.8	539.7	541.5	539.7
45°	541.0	527.5	518.3	512.8	506.9	503.1	502.6	504.2	504.8	505.3	506.9
47.5°	492.8	483.7	475.4	469.4	466.8	466.2	465.5	468.4	471.0	472.0	474.4
50°	464.1	453.9	446.9	443.0	440.9	439.9	440.9	444.2	446.3	449.0	450.6
52.5°	432.1	424.9	420.0	417.1	416.2	416.9	417.1	420.8	424.3	425.2	426.0
55°	387.9	382.5	381.4	376.5	378.7	378.1	380.8	383.0	386.3	389.6	390.0
57.5°	343.7	339.4	336.5	337.0	337.6	340.0	342.3	346.0	349.5	352.9	353.3
60°	314.3	312.2	310.5	310.5	311.6	314.9	317.6	321.3	323.5	325.7	327.3
62.5°	287.5	285.4	283.7	284.5	287.4	289.3	292.4	294.5	296.7	298.8	299.6
65°	245.1	244.0	245.6	246.7	247.2	250.0	253.7	255.4	257.5	258.6	262.4
67.5°	206.0	206.2	206.0	207.5	210.7	211.3	214.9	218.7	219.1	221.2	223.6
70°	179.6	180.7	181.8	182.9	185.6	186.6	189.3	190.9	193.1	194.8	196.4
72.5°	155.4	155.6	156.7	156.5	158.7	161.1	163.4	165.0	167.1	169.3	170.8
75°	119.5	119.5	120.7	121.2	123.9	126.6	126.0	127.1	129.3	131.4	132.6
77.5°	87.3	86.1	87.3	87.9	88.7	91.0	91.4	92.9	95.4	94.7	95.9
80°	66.5	64.9	66.5	67.1	67.1	69.8	69.8	70.8	72.5	70.8	72.5
82.5°	47.5	46.7	47.9	48.0	48.9	49.0	49.9	50.1	51.7	51.0	51.7
85°	23.8	23.2	23.8	23.2	23.8	24.4	24.4	23.8	23.8	24.9	23.2
87.5°	9.6	9.8	10.3	11.6	12.3	12.1	11.4	11.3	10.8	10.4	10.6
90°	11.3	14.2	18.9	25.6	31.2	32.2	31.2	30.3	28.5	30.3	31.2
92.5°	34.1	43.0	64.4	94.5	121.4	123.1	104.0	82.6	70.8	62.9	57.0
95°	70.1	92.8	136.4	218.7	328.6	371.3	324.9	248.2	190.4	150.6	129.7
97.5°	99.5	125.2	179.9	294.7	477.4	633.8	664.9	579.0	473.8	371.3	302.9
100°	118.4	144.9	195.1	310.6	515.2	748.2	884.6	864.7	747.3	617.5	502.9
102.5°	135.8	162.3	208.7	311.4	500.8	752.0	966.5	1051.9	1025.3	930.4	809.0
105°	161.0	187.5	232.0	316.3	472.6	701.8	953.7	1150.7	1257.8	1270.1	1238.8
107.5°	186.1	212.7	255.9	329.4	458.6	648.0	870.6	1079.5	1240.7	1339.2	1385.0
110°	202.7	230.2	271.8	340.0	455.6	622.2	818.3	1018.1	1187.6	1308.9	1386.6



TEST NUMBER: P331413-930

CATALOG NUMBER: SA2XXDIP-C865D1080U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	218.6	246.8	287.0	351.4	456.3	605.6	782.0	962.1	1124.8	1254.3	1343.4
115°	244.3	269.9	310.6	368.4	460.3	587.2	736.9	893.2	1039.0	1163.0	1260.6
117.5°	268.2	294.7	332.4	386.6	467.1	578.3	708.4	841.2	969.3	1081.8	1173.3
120°	284.1	310.6	347.6	398.8	471.7	573.0	693.2	815.5	932.9	1033.3	1119.5
122.5°	300.0	327.3	362.0	409.4	477.0	570.0	680.4	795.0	902.6	997.7	1075.5
125°	322.9	349.5	383.6	426.2	484.9	564.5	662.0	765.2	862.8	946.2	1017.2
127.5°	343.2	370.5	403.7	441.9	493.1	561.3	645.0	735.9	824.2	902.8	968.3
130°	356.1	382.6	415.8	451.8	499.1	559.7	633.7	717.0	798.4	873.3	935.7
132.5°	368.3	394.8	426.4	461.6	505.2	559.0	624.5	698.8	774.2	842.9	901.6
135°	384.5	411.1	441.3	474.5	512.4	557.8	611.8	673.4	735.9	798.4	851.4
137.5°	398.9	423.5	453.5	484.4	518.9	557.7	602.9	653.1	705.4	755.0	801.3
140°	407.2	431.9	460.3	489.7	521.9	556.9	597.6	640.3	685.7	729.3	770.9
142.5°	414.8	438.0	465.6	494.2	524.2	556.9	592.3	629.7	668.3	705.8	740.6
145°	427.1	448.0	473.5	500.1	526.6	555.0	585.3	614.7	646.0	675.3	702.8
147.5°	437.4	455.9	480.0	503.3	527.3	551.6	578.1	603.2	627.8	650.7	670.7
150°	444.2	461.2	483.1	504.8	526.6	549.3	572.0	594.8	615.6	635.5	652.6
152.5°	451.0	466.5	486.1	505.6	525.1	545.5	566.7	586.4	605.8	622.6	637.4
155°	460.3	474.5	490.6	506.7	522.8	538.9	556.9	574.9	590.0	604.2	614.7
157.5°	468.2	480.2	493.8	506.7	518.4	532.1	547.6	561.4	574.1	586.0	594.2
160°	473.5	484.0	495.4	506.7	516.2	527.6	540.8	553.1	563.5	574.0	580.6
162.5°	478.1	486.2	496.1	506.0	513.9	523.7	534.8	544.8	553.7	562.6	567.7
165°	483.1	488.7	497.3	503.9	509.6	516.2	524.7	532.3	538.9	545.5	549.3
167.5°	487.2	490.8	497.0	502.6	505.2	509.6	514.9	520.3	525.5	530.0	533.5
170°	488.7	491.5	496.3	501.0	502.9	505.7	509.6	514.3	517.1	520.9	522.8
172.5°	490.2	492.3	495.5	498.7	499.9	501.2	504.3	507.4	509.6	512.6	513.7
175°	491.5	492.5	494.4	496.3	495.4	496.3	497.3	500.1	501.0	502.0	502.9
177.5°	492.5	492.5	493.3	494.8	493.3	492.5	493.3	494.8	494.8	495.5	495.5
180°	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5



TEST NUMBER: P331413-930

CATALOG NUMBER: SA2XXDIP-C865D1080U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1350.1	1349.2	1349.2	1345.3	1349.2	1349.2	1350.1	1354.5	1355.7	1356.6	1354.9
5°	1252.4	1250.8	1248.1	1250.8	1248.1	1250.8	1252.4	1260.0	1263.7	1267.5	1270.8
7.5°	1155.8	1149.2	1148.3	1141.9	1148.3	1149.2	1155.8	1159.4	1166.9	1175.5	1183.2
10°	1085.2	1080.9	1080.4	1070.1	1080.4	1080.9	1085.2	1094.5	1102.0	1112.3	1123.1
12.5°	1031.6	1021.2	1023.2	1017.2	1023.2	1021.2	1031.6	1031.7	1040.6	1046.9	1063.8
15°	938.7	938.7	936.5	927.2	936.5	938.7	938.7	953.2	955.9	966.2	980.8
17.5°	871.9	870.7	865.6	868.2	865.6	870.7	871.9	882.6	884.4	898.1	910.2
20°	832.0	828.8	822.3	822.3	822.3	828.8	832.0	838.0	845.1	853.1	863.4
22.5°	794.4	794.2	787.3	789.4	787.3	794.2	794.4	799.9	806.5	815.5	824.0
25°	750.3	746.0	742.8	744.4	742.8	746.0	750.3	750.9	758.5	764.4	769.8
27.5°	708.6	706.2	706.0	701.6	706.0	706.2	708.6	710.0	714.3	717.8	722.8
30°	684.4	679.0	680.0	677.4	680.0	679.0	684.4	684.9	687.1	689.3	695.2
32.5°	656.6	654.7	653.6	651.3	653.6	654.7	656.6	657.6	661.9	664.1	668.8
35°	618.9	619.5	616.7	617.8	616.7	619.5	618.9	620.0	620.5	622.6	627.0
37.5°	585.9	587.6	586.4	586.7	586.4	587.6	585.9	586.4	586.9	587.3	588.6
40°	564.3	564.3	564.3	565.9	564.3	564.3	564.3	562.6	563.2	562.6	562.6
42.5°	543.5	542.6	541.8	541.6	541.8	542.6	543.5	539.7	541.5	539.7	538.8
45°	508.0	509.6	510.1	507.4	510.1	509.6	508.0	506.9	505.3	504.8	504.2
47.5°	475.9	476.1	475.9	478.3	475.9	476.1	475.9	474.4	472.0	471.0	468.4
50°	453.4	452.2	453.4	452.2	453.4	452.2	453.4	450.6	449.0	446.3	444.2
52.5°	429.6	429.7	429.1	428.9	429.1	429.7	429.6	426.0	425.2	424.3	420.8
55°	392.2	393.3	392.7	392.7	392.7	393.3	392.2	390.0	389.6	386.3	383.0
57.5°	353.6	354.6	355.3	352.9	355.3	354.6	353.6	353.3	352.9	349.5	346.0
60°	326.8	329.5	328.9	327.8	328.9	329.5	326.8	327.3	325.7	323.5	321.3
62.5°	302.1	303.0	303.0	302.7	303.0	303.0	302.1	299.6	298.8	296.7	294.5
65°	264.0	265.1	263.4	265.1	263.4	265.1	264.0	262.4	258.6	257.5	255.4
67.5°	223.0	223.3	224.5	225.3	224.5	223.3	223.0	223.6	221.2	219.1	218.7
70°	197.5	196.9	198.5	200.2	198.5	196.9	197.5	196.4	194.8	193.1	190.9
72.5°	170.6	171.8	171.3	172.4	171.3	171.8	170.6	170.8	169.3	167.1	165.0
75°	131.4	133.1	132.6	134.2	132.6	133.1	131.4	132.6	131.4	129.3	127.1
77.5°	95.0	95.2	95.0	95.9	95.0	95.2	95.0	95.9	94.7	95.4	92.9
80°	72.5	71.4	70.4	72.5	70.4	71.4	72.5	72.5	70.8	72.5	70.8
82.5°	50.4	51.0	50.0	50.0	50.0	51.0	50.4	51.7	51.0	51.7	50.1
85°	23.2	22.7	21.6	21.6	21.6	22.7	23.2	23.2	24.9	23.8	23.8
87.5°	10.6	10.1	10.1	9.7	10.1	10.1	10.6	10.6	10.4	10.8	11.3
90°	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	30.3	28.5	30.3
92.5°	56.3	53.2	54.0	52.5	54.0	53.2	56.3	57.0	62.9	70.8	82.6
95°	117.4	109.9	107.0	107.9	107.0	109.9	117.4	129.7	150.6	190.4	248.2
97.5°	257.6	234.3	220.5	212.5	220.5	234.3	257.6	302.9	371.3	473.8	579.0
100°	424.3	383.6	356.1	339.1	356.1	383.6	424.3	502.9	617.5	747.3	864.7
102.5°	723.6	654.1	619.8	596.7	619.8	654.1	723.6	809.0	930.4	1025.3	1051.9
105°	1180.1	1121.4	1080.7	1067.4	1080.7	1121.4	1180.1	1238.8	1270.1	1257.8	1150.7
107.5°	1392.4	1389.2	1381.0	1363.4	1381.0	1389.2	1392.4	1385.0	1339.2	1240.7	1079.5
110°	1427.3	1445.3	1453.8	1452.9	1453.8	1445.3	1427.3	1386.6	1308.9	1187.6	1018.1



TEST NUMBER: P331413-930

CATALOG NUMBER: SA2XXDIP-C865D1080U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1400.0	1430.1	1446.3	1451.3	1446.3	1430.1	1400.0	1343.4	1254.3	1124.8	962.1
115°	1327.9	1371.4	1396.0	1404.6	1396.0	1371.4	1327.9	1260.6	1163.0	1039.0	893.2
117.5°	1241.9	1287.8	1313.9	1321.0	1313.9	1287.8	1241.9	1173.3	1081.8	969.3	841.2
120°	1185.8	1230.3	1257.8	1267.2	1257.8	1230.3	1185.8	1119.5	1033.3	932.9	815.5
122.5°	1135.0	1178.8	1203.2	1211.1	1203.2	1178.8	1135.0	1075.5	997.7	902.6	795.0
125°	1072.1	1108.2	1131.8	1139.4	1131.8	1108.2	1072.1	1017.2	946.2	862.8	765.2
127.5°	1016.3	1049.9	1070.4	1076.5	1070.4	1049.9	1016.3	968.3	902.8	824.2	735.9
130°	982.2	1014.4	1033.3	1040.9	1033.3	1014.4	982.2	935.7	873.3	798.4	717.0
132.5°	947.3	979.5	996.9	1003.7	996.9	979.5	947.3	901.6	842.9	774.2	698.8
135°	892.2	923.4	940.4	944.3	940.4	923.4	892.2	851.4	798.4	735.9	673.4
137.5°	838.4	865.3	880.3	885.9	880.3	865.3	838.4	801.3	755.0	705.4	653.1
140°	801.3	825.9	840.1	845.8	840.1	825.9	801.3	770.9	729.3	685.7	640.3
142.5°	769.4	791.8	804.5	805.6	804.5	791.8	769.4	740.6	705.8	668.3	629.7
145°	725.5	741.6	751.1	753.9	751.1	741.6	725.5	702.8	675.3	646.0	614.7
147.5°	689.5	702.4	708.8	710.5	708.8	702.4	689.5	670.7	650.7	627.8	603.2
150°	666.8	678.2	683.8	684.8	683.8	678.2	666.8	652.6	635.5	615.6	594.8
152.5°	648.6	658.4	662.6	662.8	662.6	658.4	648.6	637.4	622.6	605.8	586.4
155°	625.1	631.7	635.5	633.7	635.5	631.7	625.1	614.7	604.2	590.0	574.9
157.5°	601.6	607.1	608.8	608.8	608.8	607.1	601.6	594.2	586.0	574.1	561.4
160°	587.2	591.9	592.9	592.9	592.9	591.9	587.2	580.6	574.0	563.5	553.1
162.5°	574.3	577.6	578.5	577.7	578.5	577.6	574.3	567.7	562.6	553.7	544.8
165°	553.1	556.9	556.9	556.0	556.9	556.9	553.1	549.3	545.5	538.9	532.3
167.5°	535.1	537.2	537.0	535.9	537.0	537.2	535.1	533.5	530.0	525.5	520.3
170°	523.7	526.6	525.6	523.7	525.6	526.6	523.7	522.8	520.9	517.1	514.3
172.5°	514.7	516.0	515.0	513.9	515.0	516.0	514.7	513.7	512.6	509.6	507.4
175°	502.9	503.9	502.9	501.0	502.9	503.9	502.9	502.9	502.0	501.0	500.1
177.5°	495.5	495.5	494.8	493.3	494.8	495.5	495.5	495.5	495.5	494.8	494.8
180°	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5



TEST NUMBER: P331413-930

CATALOG NUMBER: SA2XXDIP-C865D1080U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1352.7	1357.5	1364.8	1372.6	1377.4	1386.4	1389.0	1393.3	1397.3	1406.4	1415.8
5°	1274.6	1282.1	1300.0	1309.7	1323.2	1339.0	1349.2	1360.1	1372.0	1392.5	1411.4
7.5°	1190.8	1203.5	1225.6	1243.8	1263.1	1285.6	1301.9	1323.2	1341.0	1370.0	1397.7
10°	1135.0	1152.8	1172.9	1194.5	1221.6	1245.4	1268.1	1295.1	1316.8	1351.4	1383.9
12.5°	1084.8	1087.5	1116.1	1140.0	1177.0	1206.4	1232.6	1267.5	1288.7	1329.8	1363.9
15°	997.0	1013.3	1039.3	1058.2	1102.0	1139.3	1176.2	1212.4	1236.7	1287.5	1332.4
17.5°	923.2	938.1	964.7	995.7	1027.2	1064.4	1112.0	1150.1	1183.2	1241.4	1294.5
20°	876.4	894.8	921.9	953.7	981.4	1021.9	1063.1	1106.9	1142.6	1208.0	1270.2
22.5°	836.6	851.1	872.9	904.4	934.6	971.8	1016.8	1064.5	1101.9	1172.6	1235.6
25°	780.6	792.6	806.6	832.6	866.7	907.3	942.4	994.9	1049.5	1115.5	1191.8
27.5°	730.3	738.7	751.1	774.0	800.4	838.3	877.3	927.2	982.1	1053.8	1134.2
30°	699.5	704.9	717.4	736.3	762.2	792.0	831.5	879.1	935.4	1007.9	1087.9
32.5°	672.7	677.7	685.7	703.8	726.4	751.8	787.3	834.9	888.6	959.9	1048.6
35°	632.4	636.2	643.3	657.9	670.3	695.2	725.0	768.2	818.5	886.7	978.7
37.5°	592.3	597.5	601.8	608.0	623.9	640.3	666.2	702.7	752.1	820.9	908.6
40°	565.9	570.2	576.7	579.4	592.4	607.0	628.1	661.6	711.4	774.1	859.7
42.5°	539.1	543.4	547.2	550.4	561.7	574.5	593.5	622.2	666.4	727.4	812.0
45°	502.6	503.1	506.9	512.8	518.3	527.5	541.0	565.9	600.0	657.3	734.1
47.5°	465.5	466.2	466.8	469.4	475.4	483.7	492.8	513.0	543.5	589.2	664.0
50°	440.9	439.9	440.9	443.0	446.9	453.9	464.1	478.7	503.7	546.4	615.1
52.5°	417.1	416.9	416.2	417.1	420.0	424.9	432.1	444.6	466.8	506.1	566.6
55°	380.8	378.1	378.7	376.5	381.4	382.5	387.9	398.2	417.7	444.7	501.5
57.5°	342.3	340.0	337.6	337.0	336.5	339.4	343.7	351.9	366.8	390.4	436.6
60°	317.6	314.9	311.6	310.5	310.5	312.2	314.3	320.2	334.4	355.5	393.3
62.5°	292.4	289.3	287.4	284.5	283.7	285.4	287.5	291.7	301.9	321.6	354.3
65°	253.7	250.0	247.2	246.7	245.6	244.0	245.1	249.4	257.5	273.2	299.1
67.5°	214.9	211.3	210.7	207.5	206.0	206.2	206.0	209.7	214.6	228.1	247.4
70°	189.3	186.6	185.6	182.9	181.8	180.7	179.6	182.9	187.8	199.1	215.9
72.5°	163.4	161.1	158.7	156.5	156.7	155.6	155.4	157.4	161.3	171.8	184.7
75°	126.0	126.6	123.9	121.2	120.7	119.5	119.5	121.2	122.8	130.9	141.2
77.5°	91.4	91.0	88.7	87.9	87.3	86.1	87.3	88.4	89.3	94.7	102.2
80°	69.8	69.8	67.1	67.1	66.5	64.9	66.5	65.5	67.6	73.1	78.4
82.5°	49.9	49.0	48.9	48.0	47.9	46.7	47.5	48.6	49.4	53.2	56.3
85°	24.4	24.4	23.8	23.2	23.8	23.2	23.8	24.4	24.9	26.5	29.2
87.5°	11.4	12.1	12.3	11.6	10.3	9.8	9.6	9.7	10.2	9.9	9.7
90°	31.2	32.2	31.2	25.6	18.9	14.2	11.3	9.5	7.6	3.8	1.0
92.5°	104.0	123.1	121.4	94.5	64.4	43.0	34.1	27.6	23.5	16.6	11.6
95°	324.9	371.3	328.6	218.7	136.4	92.8	70.1	55.0	46.4	36.9	33.2
97.5°	664.9	633.8	477.4	294.7	179.9	125.2	99.5	82.0	69.1	59.1	54.0
100°	884.6	748.2	515.2	310.6	195.1	144.9	118.4	99.5	84.3	75.7	72.9
102.5°	966.5	752.0	500.8	311.4	208.7	162.3	135.8	116.1	100.9	92.5	90.3
105°	953.7	701.8	472.6	316.3	232.0	187.5	161.0	140.1	126.0	119.4	115.5
107.5°	870.6	648.0	458.6	329.4	255.9	212.7	186.1	165.3	152.3	145.9	142.8
110°	818.3	622.2	455.6	340.0	271.8	230.2	202.7	182.8	170.5	164.8	161.0



TEST NUMBER: P331413-930

CATALOG NUMBER: SA2XXDIP-C865D1080U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	782.0	605.6	456.3	351.4	287.0	246.8	218.6	199.4	187.9	181.5	177.7
115°	736.9	587.2	460.3	368.4	310.6	269.9	244.3	225.4	214.0	208.4	203.7
117.5°	708.4	578.3	467.1	386.6	332.4	294.7	268.2	250.1	240.0	234.3	230.6
120°	693.2	573.0	471.7	398.8	347.6	310.6	284.1	265.2	256.7	250.9	247.2
122.5°	680.4	570.0	477.0	409.4	362.0	327.3	300.0	281.1	271.8	266.1	263.1
125°	662.0	564.5	484.9	426.2	383.6	349.5	322.9	304.0	292.7	287.0	284.1
127.5°	645.0	561.3	493.1	441.9	403.7	370.5	343.2	325.1	312.6	304.6	300.8
130°	633.7	559.7	499.1	451.8	415.8	382.6	356.1	337.2	323.9	314.5	310.6
132.5°	624.5	559.0	505.2	461.6	426.4	394.8	368.3	348.5	334.5	324.3	319.8
135°	611.8	557.8	512.4	474.5	441.3	411.1	384.5	362.7	348.5	337.2	333.4
137.5°	602.9	557.7	518.9	484.4	453.5	423.5	398.9	377.3	362.2	350.8	346.3
140°	597.6	556.9	521.9	489.7	460.3	431.9	407.2	386.5	371.3	359.9	356.1
142.5°	592.3	556.9	524.2	494.2	465.6	438.0	414.8	394.8	379.6	369.0	366.0
145°	585.3	555.0	526.6	500.1	473.5	448.0	427.1	408.2	394.0	384.5	380.7
147.5°	578.1	551.6	527.3	503.3	480.0	455.9	437.4	421.7	408.5	399.5	396.6
150°	572.0	549.3	526.6	504.8	483.1	461.2	444.2	430.0	417.7	410.1	407.2
152.5°	566.7	545.5	525.1	505.6	486.1	466.5	451.0	437.6	426.7	419.2	417.8
155°	556.9	538.9	522.8	506.7	490.6	474.5	460.3	449.9	439.4	433.7	432.8
157.5°	547.6	532.1	518.4	506.7	493.8	480.2	468.2	459.9	450.9	446.3	445.3
160°	540.8	527.6	516.2	506.7	495.4	484.0	473.5	465.9	458.4	454.6	453.6
162.5°	534.8	523.7	513.9	506.0	496.1	486.2	478.1	471.2	465.2	461.5	462.0
165°	524.7	516.2	509.6	503.9	497.3	488.7	483.1	478.3	472.6	470.8	471.7
167.5°	514.9	509.6	505.2	502.6	497.0	490.8	487.2	483.8	480.2	478.5	479.6
170°	509.6	505.7	502.9	501.0	496.3	491.5	488.7	486.8	484.0	483.1	484.9
172.5°	504.3	501.2	499.9	498.7	495.5	492.3	490.2	489.1	486.2	486.8	488.0
175°	497.3	496.3	495.4	496.3	494.4	492.5	491.5	491.5	489.7	490.6	491.5
177.5°	493.3	492.5	493.3	494.8	493.3	492.5	492.5	492.5	491.0	491.7	493.3
180°	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5



TEST NUMBER: P331413-930

CATALOG NUMBER: SA2XXDIP-C865D1080U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1415.0	1417.2	1424.1	1431.0	1438.8	1441.0	1444.5	1441.4	1440.6	1448.8	1454.8
5°	1419.0	1428.7	1447.7	1465.0	1479.6	1489.9	1500.7	1505.0	1513.1	1524.5	1538.6
7.5°	1414.5	1433.4	1463.1	1488.4	1515.9	1535.6	1551.1	1564.3	1580.4	1601.9	1625.4
10°	1409.2	1434.7	1471.0	1501.8	1535.3	1560.7	1581.8	1602.4	1626.2	1656.0	1686.8
12.5°	1399.8	1430.0	1475.3	1511.7	1554.8	1579.8	1608.3	1652.6	1678.1	1719.6	1763.0
15°	1380.6	1414.1	1477.4	1522.3	1571.0	1618.6	1671.1	1713.4	1755.5	1779.9	1841.0
17.5°	1352.2	1401.4	1471.5	1523.9	1585.8	1660.8	1719.7	1767.5	1816.2	1855.7	1886.4
20°	1329.2	1382.7	1462.8	1525.6	1599.1	1679.8	1747.4	1796.1	1838.3	1871.3	1890.2
22.5°	1300.2	1367.6	1445.5	1519.1	1613.0	1692.7	1763.8	1802.1	1837.4	1853.5	1860.8
25°	1254.6	1335.7	1423.9	1513.7	1619.8	1704.1	1769.0	1792.3	1802.5	1786.9	1760.9
27.5°	1205.3	1295.8	1398.9	1503.5	1615.6	1696.7	1743.3	1739.6	1722.2	1671.4	1630.8
30°	1168.6	1268.1	1379.0	1493.1	1605.7	1684.7	1711.7	1684.7	1645.1	1588.4	1530.5
32.5°	1130.0	1233.1	1357.8	1478.4	1587.5	1656.9	1662.8	1616.2	1555.1	1490.5	1418.4
35°	1071.7	1183.2	1317.8	1445.5	1548.8	1592.7	1566.7	1484.5	1412.0	1323.8	1225.3
37.5°	1005.8	1128.9	1264.0	1397.3	1490.9	1502.4	1437.9	1351.4	1249.1	1145.5	1029.6
40°	956.5	1086.9	1225.9	1360.6	1443.3	1431.4	1349.2	1254.0	1132.3	1005.7	898.1
42.5°	912.3	1042.7	1184.3	1316.5	1382.7	1350.1	1254.0	1137.2	1006.3	887.1	788.6
45°	835.8	970.0	1115.0	1242.7	1280.5	1221.6	1094.5	964.6	835.8	736.3	658.4
47.5°	761.6	894.2	1037.8	1150.1	1163.4	1084.1	945.2	811.6	700.9	619.9	564.9
50°	707.1	840.2	982.4	1082.6	1078.2	982.4	839.6	712.5	620.0	554.5	517.7
52.5°	658.2	783.9	920.6	1011.5	988.6	884.2	747.9	635.0	559.0	507.8	474.4
55°	582.1	698.4	828.3	901.3	859.1	743.3	628.1	537.2	480.9	442.5	416.5
57.5°	506.5	615.6	726.8	771.8	725.1	618.2	522.2	456.2	413.9	385.5	368.6
60°	459.8	555.1	654.0	693.0	637.3	542.1	466.4	407.4	373.2	350.0	334.8
62.5°	413.1	498.4	591.7	612.9	562.0	481.5	414.4	365.4	337.4	316.7	302.4
65°	349.5	419.2	490.2	504.2	457.1	394.9	341.9	310.0	285.1	269.9	258.6
67.5°	286.6	342.7	392.9	404.2	363.0	319.8	281.5	253.7	236.8	224.3	214.7
70°	249.4	293.8	334.8	344.1	311.0	272.6	243.4	221.3	206.1	195.3	186.1
72.5°	210.0	247.0	281.2	287.4	260.4	231.1	207.1	189.6	176.3	169.3	160.5
75°	160.7	182.3	208.8	210.4	192.6	174.7	156.4	145.0	137.9	129.3	125.0
77.5°	113.4	130.4	145.5	148.5	137.9	125.7	115.4	106.5	100.5	96.5	92.5
80°	86.6	100.1	106.6	110.4	102.8	94.2	88.2	82.3	78.4	75.7	73.1
82.5°	61.9	70.2	76.3	79.2	75.1	69.9	63.9	60.6	57.6	55.4	54.5
85°	31.4	35.1	39.0	40.0	39.0	36.8	33.5	33.5	31.9	31.4	31.4
87.5°	11.6	14.1	14.4	16.1	15.8	16.8	18.1	18.8	18.6	17.9	17.3
90°	3.8	7.6	9.5	11.3	14.2	18.9	25.6	31.2	32.2	31.2	30.3
92.5°	16.6	23.5	27.6	34.1	43.0	64.4	94.5	121.4	123.1	104.0	82.6
95°	36.9	46.4	55.0	70.1	92.8	136.4	218.7	328.6	371.3	324.9	248.2
97.5°	59.1	69.1	82.0	99.5	125.2	179.9	294.7	477.4	633.8	664.9	579.0
100°	75.7	84.3	99.5	118.4	144.9	195.1	310.6	515.2	748.2	884.6	864.7
102.5°	92.5	100.9	116.1	135.8	162.3	208.7	311.4	500.8	752.0	966.5	1051.9
105°	119.4	126.0	140.1	161.0	187.5	232.0	316.3	472.6	701.8	953.7	1150.7
107.5°	145.9	152.3	165.3	186.1	212.7	255.9	329.4	458.6	648.0	870.6	1079.5
110°	164.8	170.5	182.8	202.7	230.2	271.8	340.0	455.6	622.2	818.3	1018.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	181.5	187.9	199.4	218.6	246.8	287.0	351.4	456.3	605.6	782.0	962.1
115°	208.4	214.0	225.4	244.3	269.9	310.6	368.4	460.3	587.2	736.9	893.2
117.5°	234.3	240.0	250.1	268.2	294.7	332.4	386.6	467.1	578.3	708.4	841.2
120°	250.9	256.7	265.2	284.1	310.6	347.6	398.8	471.7	573.0	693.2	815.5
122.5°	266.1	271.8	281.1	300.0	327.3	362.0	409.4	477.0	570.0	680.4	795.0
125°	287.0	292.7	304.0	322.9	349.5	383.6	426.2	484.9	564.5	662.0	765.2
127.5°	304.6	312.6	325.1	343.2	370.5	403.7	441.9	493.1	561.3	645.0	735.9
130°	314.5	323.9	337.2	356.1	382.6	415.8	451.8	499.1	559.7	633.7	717.0
132.5°	324.3	334.5	348.5	368.3	394.8	426.4	461.6	505.2	559.0	624.5	698.8
135°	337.2	348.5	362.7	384.5	411.1	441.3	474.5	512.4	557.8	611.8	673.4
137.5°	350.8	362.2	377.3	398.9	423.5	453.5	484.4	518.9	557.7	602.9	653.1
140°	359.9	371.3	386.5	407.2	431.9	460.3	489.7	521.9	556.9	597.6	640.3
142.5°	369.0	379.6	394.8	414.8	438.0	465.6	494.2	524.2	556.9	592.3	629.7
145°	384.5	394.0	408.2	427.1	448.0	473.5	500.1	526.6	555.0	585.3	614.7
147.5°	399.5	408.5	421.7	437.4	455.9	480.0	503.3	527.3	551.6	578.1	603.2
150°	410.1	417.7	430.0	444.2	461.2	483.1	504.8	526.6	549.3	572.0	594.8
152.5°	419.2	426.7	437.6	451.0	466.5	486.1	505.6	525.1	545.5	566.7	586.4
155°	433.7	439.4	449.9	460.3	474.5	490.6	506.7	522.8	538.9	556.9	574.9
157.5°	446.3	450.9	459.9	468.2	480.2	493.8	506.7	518.4	532.1	547.6	561.4
160°	454.6	458.4	465.9	473.5	484.0	495.4	506.7	516.2	527.6	540.8	553.1
162.5°	461.5	465.2	471.2	478.1	486.2	496.1	506.0	513.9	523.7	534.8	544.8
165°	470.8	472.6	478.3	483.1	488.7	497.3	503.9	509.6	516.2	524.7	532.3
167.5°	478.5	480.2	483.8	487.2	490.8	497.0	502.6	505.2	509.6	514.9	520.3
170°	483.1	484.0	486.8	488.7	491.5	496.3	501.0	502.9	505.7	509.6	514.3
172.5°	486.8	486.2	489.1	490.2	492.3	495.5	498.7	499.9	501.2	504.3	507.4
175°	490.6	489.7	491.5	491.5	492.5	494.4	496.3	495.4	496.3	497.3	500.1
177.5°	491.7	491.0	492.5	492.5	492.5	493.3	494.8	493.3	492.5	493.3	494.8
180°	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6	1407.6
2.5°	1460.0	1466.1	1466.1	1467.0	1473.9	1473.0	1472.6
5°	1553.7	1562.9	1564.0	1573.8	1580.2	1578.1	1572.1
7.5°	1642.1	1659.2	1672.2	1679.4	1688.0	1693.3	1690.9
10°	1712.2	1737.1	1752.2	1762.5	1775.0	1784.2	1780.9
12.5°	1775.9	1805.5	1826.3	1843.9	1845.5	1857.3	1849.3
15°	1875.1	1906.4	1909.7	1922.6	1933.0	1931.9	1932.4
17.5°	1907.9	1917.9	1919.9	1920.3	1920.4	1916.6	1908.4
20°	1896.1	1892.4	1883.2	1876.2	1863.7	1862.1	1851.3
22.5°	1840.8	1828.8	1805.7	1790.5	1771.1	1766.0	1763.0
25°	1731.7	1705.2	1668.4	1633.2	1623.5	1604.6	1610.0
27.5°	1582.1	1540.8	1500.9	1472.3	1446.5	1418.1	1426.3
30°	1476.9	1430.4	1374.1	1330.8	1303.3	1276.2	1271.3
32.5°	1351.4	1283.2	1220.5	1182.3	1140.1	1123.0	1104.2
35°	1135.0	1068.4	1006.2	952.7	921.9	898.1	876.4
37.5°	940.4	863.7	813.5	770.1	747.9	734.3	737.7
40°	819.6	752.5	715.8	682.7	662.2	652.4	654.6
42.5°	721.8	671.6	641.3	618.6	604.1	598.8	597.5
45°	610.7	582.6	557.7	544.8	537.8	531.8	528.0
47.5°	535.0	512.1	498.1	490.3	484.2	478.1	478.0
50°	489.6	474.4	464.7	456.6	451.8	447.4	451.2
52.5°	454.9	441.2	431.4	424.1	422.3	418.4	418.3
55°	403.6	392.7	385.7	379.2	376.0	373.8	371.1
57.5°	356.9	346.6	340.1	336.0	329.8	327.6	326.8
60°	323.5	315.4	308.9	303.5	300.8	296.4	296.4
62.5°	292.8	284.7	278.6	274.5	270.0	268.3	268.8
65°	248.3	241.8	235.9	231.5	230.5	227.2	228.3
67.5°	207.4	203.1	196.8	194.4	192.4	190.6	189.3
70°	180.2	175.9	172.6	169.3	167.7	167.7	167.7
72.5°	157.2	152.1	150.1	145.9	146.9	145.2	143.5
75°	121.7	118.5	116.8	115.2	112.5	112.5	112.5
77.5°	89.6	88.6	86.7	85.0	84.3	83.7	84.0
80°	69.2	68.7	67.6	67.6	66.5	66.0	64.9
82.5°	53.2	51.9	51.2	50.7	50.5	50.4	50.2
85°	30.3	29.2	29.2	29.8	28.7	28.7	29.2
87.5°	17.4	17.8	17.5	17.5	17.9	17.5	17.5
90°	28.5	30.3	31.2	31.2	31.2	31.2	31.2
92.5°	70.8	62.9	57.0	56.3	53.2	54.0	52.5
95°	190.4	150.6	129.7	117.4	109.9	107.0	107.9
97.5°	473.8	371.3	302.9	257.6	234.3	220.5	212.5
100°	747.3	617.5	502.9	424.3	383.6	356.1	339.1
102.5°	1025.3	930.4	809.0	723.6	654.1	619.8	596.7
105°	1257.8	1270.1	1238.8	1180.1	1121.4	1080.7	1067.4
107.5°	1240.7	1339.2	1385.0	1392.4	1389.2	1381.0	1363.4
110°	1187.6	1308.9	1386.6	1427.3	1445.3	1453.8	1452.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1124.8	1254.3	1343.4	1400.0	1430.1	1446.3	1451.3
115°	1039.0	1163.0	1260.6	1327.9	1371.4	1396.0	1404.6
117.5°	969.3	1081.8	1173.3	1241.9	1287.8	1313.9	1321.0
120°	932.9	1033.3	1119.5	1185.8	1230.3	1257.8	1267.2
122.5°	902.6	997.7	1075.5	1135.0	1178.8	1203.2	1211.1
125°	862.8	946.2	1017.2	1072.1	1108.2	1131.8	1139.4
127.5°	824.2	902.8	968.3	1016.3	1049.9	1070.4	1076.5
130°	798.4	873.3	935.7	982.2	1014.4	1033.3	1040.9
132.5°	774.2	842.9	901.6	947.3	979.5	996.9	1003.7
135°	735.9	798.4	851.4	892.2	923.4	940.4	944.3
137.5°	705.4	755.0	801.3	838.4	865.3	880.3	885.9
140°	685.7	729.3	770.9	801.3	825.9	840.1	845.8
142.5°	668.3	705.8	740.6	769.4	791.8	804.5	805.6
145°	646.0	675.3	702.8	725.5	741.6	751.1	753.9
147.5°	627.8	650.7	670.7	689.5	702.4	708.8	710.5
150°	615.6	635.5	652.6	666.8	678.2	683.8	684.8
152.5°	605.8	622.6	637.4	648.6	658.4	662.6	662.8
155°	590.0	604.2	614.7	625.1	631.7	635.5	633.7
157.5°	574.1	586.0	594.2	601.6	607.1	608.8	608.8
160°	563.5	574.0	580.6	587.2	591.9	592.9	592.9
162.5°	553.7	562.6	567.7	574.3	577.6	578.5	577.7
165°	538.9	545.5	549.3	553.1	556.9	556.9	556.0
167.5°	525.5	530.0	533.5	535.1	537.2	537.0	535.9
170°	517.1	520.9	522.8	523.7	526.6	525.6	523.7
172.5°	509.6	512.6	513.7	514.7	516.0	515.0	513.9
175°	501.0	502.0	502.9	502.9	503.9	502.9	501.0
177.5°	494.8	495.5	495.5	495.5	495.5	494.8	493.3
180°	492.5	492.5	492.5	492.5	492.5	492.5	492.5

(END OF REPORT)