

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: P331377-930

Luminaire Tested: **S122DIP-S865D330U930-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331377-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122DIP-S865D330U930-4F0-1E-UDD-A4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 330 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

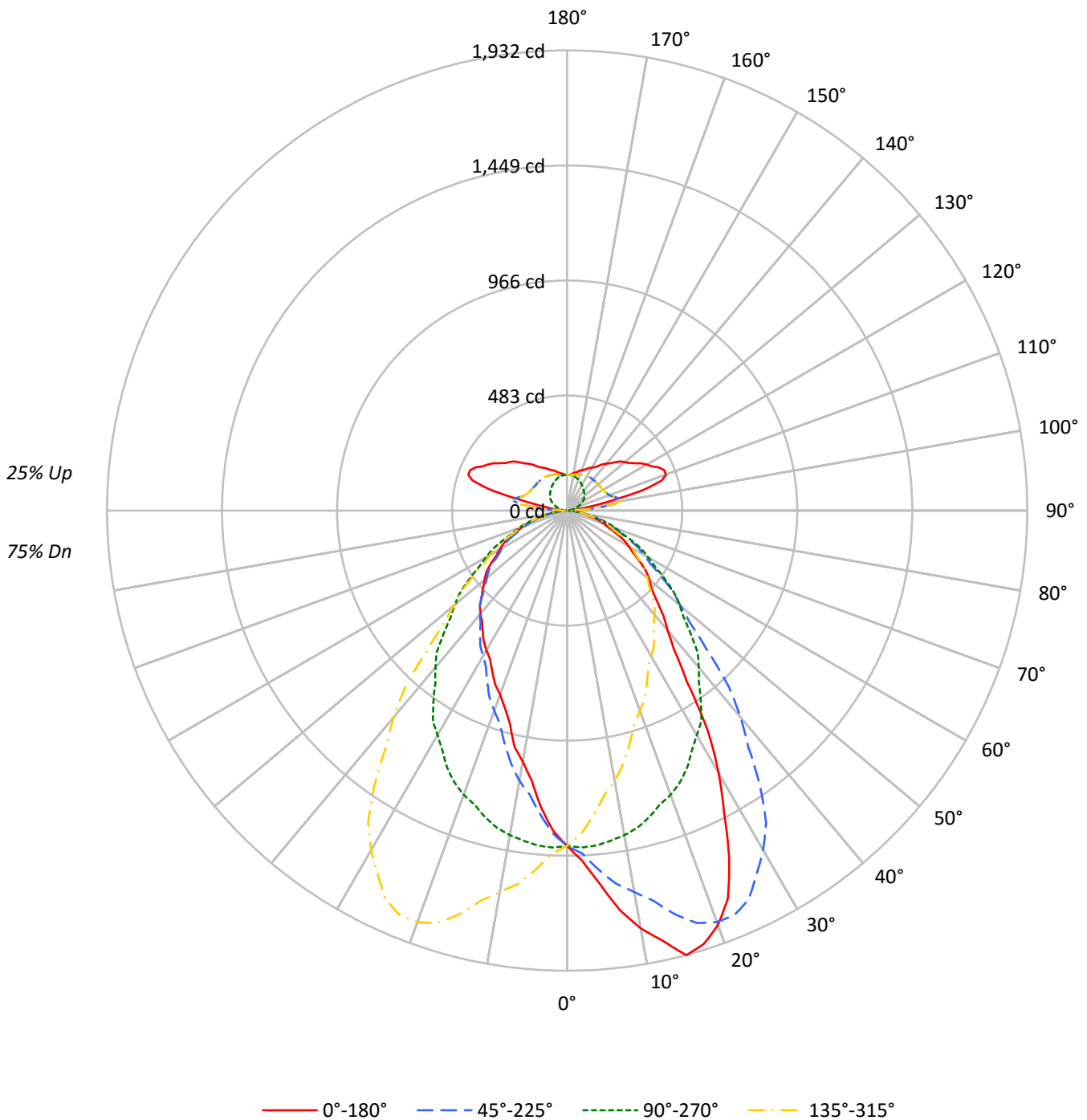
Lumens per Lamp: N/A  
Luminaire Lumens: 4149.3 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct  
  
Input Watts (W): 43.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	104	100	96	93	99	95	92	89	86	84	82	78	76	75	71	70	68	65
2	95	88	82	77	91	84	79	74	77	72	69	70	66	63	63	61	59	55
3	88	78	71	65	83	75	68	63	68	63	59	62	58	55	57	53	51	48
4	81	70	62	56	76	67	60	54	61	55	51	56	51	47	51	47	44	41
5	74	63	55	49	71	60	53	47	55	49	44	51	46	42	47	42	39	37
6	69	57	49	43	65	54	47	42	50	44	39	46	41	37	43	38	35	32
7	64	52	44	38	61	50	42	37	46	40	35	42	37	33	39	35	31	29
8	60	47	39	34	57	45	38	33	42	36	32	39	34	30	36	32	28	26
9	56	43	36	31	53	42	35	30	39	33	29	36	31	27	33	29	26	24
10	52	40	33	28	50	39	32	27	36	30	26	34	28	25	31	27	24	22

**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



TEST NUMBER: P331377-930

CATALOG NUMBER: S122DIP-S865D330U930-4F0-1E-UDD-A4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.1	3.2
10°-20°	389.7	9.4
20°-30°	565.6	13.6
30°-40°	596.9	14.4
40°-50°	528.5	12.7
50°-60°	421.7	10.2
60°-70°	286.7	6.9
70°-80°	147.0	3.5
80°-90°	36.8	0.9
90°-100°	59.9	1.4
100°-110°	203.2	4.9
110°-120°	215.9	5.2
120°-130°	177.7	4.3
130°-140°	142.7	3.4
140°-150°	107.9	2.6
150°-160°	75.8	1.8
160°-170°	44.6	1.1
170°-180°	14.5	0.4
0°-30°	1089.4	26.3
0°-40°	1686.3	40.6
0°-60°	2636.5	63.5
0°-90°	3106.9	74.9
90°-120°	479.1	11.5
90°-150°	907.4	21.9
90°-180°	1042.0	25.1
0°-180°	4149.3	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	32
90°	10	0	10	0	10	7
95°	33	10	33	10	33	43
105°	325	35	325	35	325	314
115°	427	62	427	62	427	418
125°	347	86	347	86	347	313
135°	287	101	287	101	287	223
145°	229	116	229	116	229	146
155°	193	132	193	132	193	90
165°	169	144	169	144	169	48
175°	152	150	152	150	152	15
180°	150	150	150	150	150	



TEST NUMBER: P331377-930

CATALOG NUMBER: S122DIP-S865D330U930-4F0-1E-UDD-A4

**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°	13.1	13.1	13.6	13.1	13.1	13.5	13.5	13.1	13.6	14.1	14.4
90°	9.5	9.5	9.5	9.5	9.5	9.2	8.6	9.2	9.5	9.8	9.5
92.5°	16.0	16.4	16.2	17.1	17.4	19.2	21.5	25.1	31.6	37.4	36.9
95°	32.9	32.5	33.4	35.7	39.5	45.8	57.9	75.5	98.8	112.9	100.0
97.5°	64.7	67.1	71.3	78.4	92.1	112.9	144.1	176.1	202.2	192.7	145.2
100°	103.1	108.4	116.7	129.1	153.0	187.8	227.3	263.0	269.0	227.6	156.7
102.5°	181.5	188.5	198.9	220.0	246.1	283.0	311.9	319.9	293.9	228.7	152.3
105°	324.7	328.6	341.0	358.9	376.8	386.3	382.5	350.0	290.1	213.4	143.7
107.5°	414.7	420.0	422.6	423.5	421.3	407.3	377.4	328.3	264.8	197.1	139.5
110°	441.9	442.2	439.6	434.1	421.8	398.1	361.3	309.7	248.9	189.2	138.6



TEST NUMBER: P331377-930

CATALOG NUMBER: S122DIP-S865D330U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	441.4	439.9	435.0	425.8	408.6	381.5	342.1	292.6	237.8	184.2	138.8
115°	427.2	424.6	417.1	403.9	383.4	353.8	316.0	271.7	224.1	178.6	140.0
117.5°	401.8	399.6	391.8	377.7	356.9	329.1	294.8	255.8	215.5	175.9	142.1
120°	385.5	382.5	374.2	360.7	340.5	314.3	283.7	248.0	210.8	174.3	143.5
122.5°	368.4	366.0	358.6	345.2	327.1	303.5	274.5	241.8	206.9	173.3	145.0
125°	346.6	344.2	337.0	326.1	309.4	287.8	262.4	232.8	201.4	171.7	147.5
127.5°	327.4	325.5	319.4	309.1	294.5	274.6	250.7	223.8	196.2	170.7	149.9
130°	316.6	314.3	308.5	298.7	284.6	265.6	242.9	218.1	192.7	170.2	151.8
132.5°	305.3	303.2	297.9	288.1	274.3	256.4	235.5	212.5	190.0	170.0	153.7
135°	287.2	286.1	280.9	271.3	258.9	242.9	223.8	204.8	186.1	169.7	155.9
137.5°	269.5	267.7	263.2	255.0	243.7	229.7	214.6	198.7	183.4	169.6	157.8
140°	257.2	255.5	251.2	243.7	234.5	221.8	208.6	194.7	181.7	169.4	158.7
142.5°	245.0	244.7	240.8	234.0	225.3	214.7	203.3	191.5	180.2	169.4	159.4
145°	229.3	228.4	225.6	220.6	213.8	205.4	196.5	186.9	178.1	168.8	160.1
147.5°	216.1	215.6	213.6	209.7	204.0	197.9	190.9	183.4	175.9	167.8	160.4
150°	208.3	208.0	206.3	202.8	198.4	193.3	187.3	180.9	174.0	167.1	160.1
152.5°	201.6	201.5	200.2	197.3	193.9	189.4	184.3	178.4	172.4	165.9	159.7
155°	192.7	193.3	192.2	190.1	186.9	183.8	179.4	174.9	169.4	163.9	159.0
157.5°	185.2	185.2	184.7	183.0	180.8	178.2	174.6	170.8	166.6	161.8	157.7
160°	180.3	180.3	180.0	178.6	176.6	174.6	171.4	168.2	164.4	160.5	157.0
162.5°	175.7	175.9	175.7	174.7	172.7	171.1	168.4	165.7	162.7	159.3	156.3
165°	169.1	169.4	169.4	168.2	167.1	165.9	163.9	161.9	159.6	157.0	155.0
167.5°	163.0	163.3	163.4	162.7	162.2	161.2	159.8	158.2	156.6	155.0	153.7
170°	159.3	159.9	160.1	159.3	159.0	158.4	157.3	156.5	155.0	153.8	153.0
172.5°	156.3	156.6	156.9	156.5	156.2	155.9	155.0	154.3	153.4	152.5	152.1
175°	152.4	153.0	153.3	153.0	153.0	152.7	152.4	152.1	151.2	150.9	150.7
177.5°	150.0	150.5	150.7	150.7	150.7	150.7	150.5	150.5	150.0	149.8	150.0
180°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8



TEST NUMBER: P331377-930

CATALOG NUMBER: S122DIP-S865D330U930-4F0-1E-UDD-A4

**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°	14.5	14.1	13.9	14.5	13.1	13.0	11.1	9.5	9.3	9.1	8.4
90°	7.7	5.8	4.3	3.4	2.9	2.3	1.1	0.3	1.1	2.3	2.9
92.5°	28.8	19.6	13.0	10.4	8.4	7.2	5.1	3.5	5.1	7.2	8.4
95°	66.5	41.5	28.2	21.3	16.7	14.1	11.3	10.1	11.3	14.1	16.7
97.5°	89.7	54.7	38.1	30.2	24.9	21.0	17.9	16.4	17.9	21.0	24.9
100°	94.5	59.4	44.1	36.0	30.2	25.6	23.1	22.2	23.1	25.6	30.2
102.5°	94.7	63.5	49.4	41.3	35.3	30.7	28.1	27.5	28.1	30.7	35.3
105°	96.2	70.6	57.1	49.0	42.6	38.3	36.3	35.1	36.3	38.3	42.6
107.5°	100.2	77.9	64.7	56.6	50.3	46.3	44.4	43.5	44.4	46.3	50.3
110°	103.4	82.7	70.0	61.6	55.6	51.9	50.1	49.0	50.1	51.9	55.6





TEST NUMBER: P331377-930

CATALOG NUMBER: S122DIP-S865D330U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	106.9	87.3	75.1	66.4	60.7	57.2	55.2	54.1	55.2	57.2	60.7
115°	112.0	94.5	82.1	74.4	68.6	65.1	63.3	62.0	63.3	65.1	68.6
117.5°	117.6	101.1	89.7	81.6	76.1	73.0	71.3	70.1	71.3	73.0	76.1
120°	121.3	105.7	94.5	86.4	80.6	78.1	76.3	75.2	76.3	78.1	80.6
122.5°	124.5	110.1	99.5	91.2	85.5	82.7	81.0	80.1	81.0	82.7	85.5
125°	129.6	116.7	106.3	98.2	92.5	89.0	87.3	86.4	87.3	89.0	92.5
127.5°	134.4	122.8	112.7	104.4	98.9	95.1	92.6	91.5	92.6	95.1	98.9
130°	137.4	126.5	116.3	108.4	102.6	98.5	95.6	94.5	95.6	98.5	102.6
132.5°	140.4	129.7	120.1	112.0	106.0	101.7	98.7	97.3	98.7	101.7	106.0
135°	144.3	134.3	125.0	117.0	110.3	106.0	102.6	101.4	102.6	106.0	110.3
137.5°	147.3	137.9	128.8	121.3	114.8	110.1	106.7	105.3	106.7	110.1	114.8
140°	149.0	140.0	131.3	123.8	117.6	112.9	109.5	108.4	109.5	112.9	117.6
142.5°	150.3	141.6	133.2	126.2	120.1	115.4	112.3	111.3	112.3	115.4	120.1
145°	152.1	144.1	136.2	130.0	124.2	119.8	117.0	115.8	117.0	119.8	124.2
147.5°	153.1	146.0	138.7	133.1	128.2	124.3	121.5	120.7	121.5	124.3	128.2
150°	153.5	146.9	140.3	135.1	130.8	127.0	124.7	123.8	124.7	127.0	130.8
152.5°	153.8	147.8	141.9	137.2	133.1	129.8	127.5	127.1	127.5	129.8	133.1
155°	154.1	149.2	144.3	140.0	136.8	133.6	131.9	131.7	131.9	133.6	136.8
157.5°	154.1	150.2	146.0	142.4	139.9	137.1	135.7	135.4	135.7	137.1	139.9
160°	154.1	150.7	147.2	144.1	141.7	139.4	138.3	137.9	138.3	139.4	141.7
162.5°	153.8	150.9	147.9	145.4	143.3	141.5	140.3	140.6	140.3	141.5	143.3
165°	153.3	151.2	148.6	146.9	145.4	143.7	143.2	143.5	143.2	143.7	145.4
167.5°	152.9	151.2	149.3	148.2	147.2	146.0	145.5	145.9	145.5	146.0	147.2
170°	152.4	150.9	149.5	148.6	148.1	147.2	146.9	147.5	146.9	147.2	148.1
172.5°	151.7	150.7	149.8	149.1	148.8	147.9	148.1	148.4	148.1	147.9	148.8
175°	150.9	150.3	149.8	149.5	149.5	149.0	149.2	149.5	149.2	149.0	149.5
177.5°	150.5	150.0	149.8	149.8	149.8	149.4	149.5	150.0	149.5	149.4	149.8
180°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8



TEST NUMBER: P331377-930

CATALOG NUMBER: S122DIP-S865D330U930-4F0-1E-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°	8.1	7.8	7.7	8.1	8.0	7.6	7.1	7.0	6.9	6.2	6.2
90°	3.4	4.3	5.8	7.7	9.5	9.8	9.5	9.2	8.6	9.2	9.5
92.5°	10.4	13.0	19.6	28.8	36.9	37.4	31.6	25.1	21.5	19.2	17.4
95°	21.3	28.2	41.5	66.5	100.0	112.9	98.8	75.5	57.9	45.8	39.5
97.5°	30.2	38.1	54.7	89.7	145.2	192.7	202.2	176.1	144.1	112.9	92.1
100°	36.0	44.1	59.4	94.5	156.7	227.6	269.0	263.0	227.3	187.8	153.0
102.5°	41.3	49.4	63.5	94.7	152.3	228.7	293.9	319.9	311.9	283.0	246.1
105°	49.0	57.1	70.6	96.2	143.7	213.4	290.1	350.0	382.5	386.3	376.8
107.5°	56.6	64.7	77.9	100.2	139.5	197.1	264.8	328.3	377.4	407.3	421.3
110°	61.6	70.0	82.7	103.4	138.6	189.2	248.9	309.7	361.3	398.1	421.8



TEST NUMBER: P331377-930

CATALOG NUMBER: S122DIP-S865D330U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	66.4	75.1	87.3	106.9	138.8	184.2	237.8	292.6	342.1	381.5	408.6
115°	74.4	82.1	94.5	112.0	140.0	178.6	224.1	271.7	316.0	353.8	383.4
117.5°	81.6	89.7	101.1	117.6	142.1	175.9	215.5	255.8	294.8	329.1	356.9
120°	86.4	94.5	105.7	121.3	143.5	174.3	210.8	248.0	283.7	314.3	340.5
122.5°	91.2	99.5	110.1	124.5	145.0	173.3	206.9	241.8	274.5	303.5	327.1
125°	98.2	106.3	116.7	129.6	147.5	171.7	201.4	232.8	262.4	287.8	309.4
127.5°	104.4	112.7	122.8	134.4	149.9	170.7	196.2	223.8	250.7	274.6	294.5
130°	108.4	116.3	126.5	137.4	151.8	170.2	192.7	218.1	242.9	265.6	284.6
132.5°	112.0	120.1	129.7	140.4	153.7	170.0	190.0	212.5	235.5	256.4	274.3
135°	117.0	125.0	134.3	144.3	155.9	169.7	186.1	204.8	223.8	242.9	258.9
137.5°	121.3	128.8	137.9	147.3	157.8	169.6	183.4	198.7	214.6	229.7	243.7
140°	123.8	131.3	140.0	149.0	158.7	169.4	181.7	194.7	208.6	221.8	234.5
142.5°	126.2	133.2	141.6	150.3	159.4	169.4	180.2	191.5	203.3	214.7	225.3
145°	130.0	136.2	144.1	152.1	160.1	168.8	178.1	186.9	196.5	205.4	213.8
147.5°	133.1	138.7	146.0	153.1	160.4	167.8	175.9	183.4	190.9	197.9	204.0
150°	135.1	140.3	146.9	153.5	160.1	167.1	174.0	180.9	187.3	193.3	198.4
152.5°	137.2	141.9	147.8	153.8	159.7	165.9	172.4	178.4	184.3	189.4	193.9
155°	140.0	144.3	149.2	154.1	159.0	163.9	169.4	174.9	179.4	183.8	186.9
157.5°	142.4	146.0	150.2	154.1	157.7	161.8	166.6	170.8	174.6	178.2	180.8
160°	144.1	147.2	150.7	154.1	157.0	160.5	164.4	168.2	171.4	174.6	176.6
162.5°	145.4	147.9	150.9	153.8	156.3	159.3	162.7	165.7	168.4	171.1	172.7
165°	146.9	148.6	151.2	153.3	155.0	157.0	159.6	161.9	163.9	165.9	167.1
167.5°	148.2	149.3	151.2	152.9	153.7	155.0	156.6	158.2	159.8	161.2	162.2
170°	148.6	149.5	150.9	152.4	153.0	153.8	155.0	156.5	157.3	158.4	159.0
172.5°	149.1	149.8	150.7	151.7	152.1	152.5	153.4	154.3	155.0	155.9	156.2
175°	149.5	149.8	150.3	150.9	150.7	150.9	151.2	152.1	152.4	152.7	153.0
177.5°	149.8	149.8	150.0	150.5	150.0	149.8	150.0	150.5	150.5	150.7	150.7
180°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8



TEST NUMBER: P331377-930

CATALOG NUMBER: S122DIP-S865D330U930-4F0-1E-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°	6.2	5.8	5.8	5.4	5.8	5.8	6.2	6.2	6.2	6.9	7.0
90°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.2	8.6	9.2
92.5°	17.1	16.2	16.4	16.0	16.4	16.2	17.1	17.4	19.2	21.5	25.1
95°	35.7	33.4	32.5	32.9	32.5	33.4	35.7	39.5	45.8	57.9	75.5
97.5°	78.4	71.3	67.1	64.7	67.1	71.3	78.4	92.1	112.9	144.1	176.1
100°	129.1	116.7	108.4	103.1	108.4	116.7	129.1	153.0	187.8	227.3	263.0
102.5°	220.0	198.9	188.5	181.5	188.5	198.9	220.0	246.1	283.0	311.9	319.9
105°	358.9	341.0	328.6	324.7	328.6	341.0	358.9	376.8	386.3	382.5	350.0
107.5°	423.5	422.6	420.0	414.7	420.0	422.6	423.5	421.3	407.3	377.4	328.3
110°	434.1	439.6	442.2	441.9	442.2	439.6	434.1	421.8	398.1	361.3	309.7



TEST NUMBER: P331377-930

CATALOG NUMBER: S122DIP-S865D330U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	425.8	435.0	439.9	441.4	439.9	435.0	425.8	408.6	381.5	342.1	292.6
115°	403.9	417.1	424.6	427.2	424.6	417.1	403.9	383.4	353.8	316.0	271.7
117.5°	377.7	391.8	399.6	401.8	399.6	391.8	377.7	356.9	329.1	294.8	255.8
120°	360.7	374.2	382.5	385.5	382.5	374.2	360.7	340.5	314.3	283.7	248.0
122.5°	345.2	358.6	366.0	368.4	366.0	358.6	345.2	327.1	303.5	274.5	241.8
125°	326.1	337.0	344.2	346.6	344.2	337.0	326.1	309.4	287.8	262.4	232.8
127.5°	309.1	319.4	325.5	327.4	325.5	319.4	309.1	294.5	274.6	250.7	223.8
130°	298.7	308.5	314.3	316.6	314.3	308.5	298.7	284.6	265.6	242.9	218.1
132.5°	288.1	297.9	303.2	305.3	303.2	297.9	288.1	274.3	256.4	235.5	212.5
135°	271.3	280.9	286.1	287.2	286.1	280.9	271.3	258.9	242.9	223.8	204.8
137.5°	255.0	263.2	267.7	269.5	267.7	263.2	255.0	243.7	229.7	214.6	198.7
140°	243.7	251.2	255.5	257.2	255.5	251.2	243.7	234.5	221.8	208.6	194.7
142.5°	234.0	240.8	244.7	245.0	244.7	240.8	234.0	225.3	214.7	203.3	191.5
145°	220.6	225.6	228.4	229.3	228.4	225.6	220.6	213.8	205.4	196.5	186.9
147.5°	209.7	213.6	215.6	216.1	215.6	213.6	209.7	204.0	197.9	190.9	183.4
150°	202.8	206.3	208.0	208.3	208.0	206.3	202.8	198.4	193.3	187.3	180.9
152.5°	197.3	200.2	201.5	201.6	201.5	200.2	197.3	193.9	189.4	184.3	178.4
155°	190.1	192.2	193.3	192.7	193.3	192.2	190.1	186.9	183.8	179.4	174.9
157.5°	183.0	184.7	185.2	185.2	185.2	184.7	183.0	180.8	178.2	174.6	170.8
160°	178.6	180.0	180.3	180.3	180.3	180.0	178.6	176.6	174.6	171.4	168.2
162.5°	174.7	175.7	175.9	175.7	175.9	175.7	174.7	172.7	171.1	168.4	165.7
165°	168.2	169.4	169.4	169.1	169.4	169.4	168.2	167.1	165.9	163.9	161.9
167.5°	162.7	163.4	163.3	163.0	163.3	163.4	162.7	162.2	161.2	159.8	158.2
170°	159.3	160.1	159.9	159.3	159.9	160.1	159.3	159.0	158.4	157.3	156.5
172.5°	156.5	156.9	156.6	156.3	156.6	156.9	156.5	156.2	155.9	155.0	154.3
175°	153.0	153.3	153.0	152.4	153.0	153.3	153.0	153.0	152.7	152.4	152.1
177.5°	150.7	150.7	150.5	150.0	150.5	150.7	150.7	150.7	150.7	150.5	150.5
180°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8



TEST NUMBER: P331377-930

CATALOG NUMBER: S122DIP-S865D330U930-4F0-1E-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°	7.1	7.6	8.0	8.1	7.7	7.8	8.1	8.4	9.1	9.3	9.5
90°	9.5	9.8	9.5	7.7	5.8	4.3	3.4	2.9	2.3	1.1	0.3
92.5°	31.6	37.4	36.9	28.8	19.6	13.0	10.4	8.4	7.2	5.1	3.5
95°	98.8	112.9	100.0	66.5	41.5	28.2	21.3	16.7	14.1	11.3	10.1
97.5°	202.2	192.7	145.2	89.7	54.7	38.1	30.2	24.9	21.0	17.9	16.4
100°	269.0	227.6	156.7	94.5	59.4	44.1	36.0	30.2	25.6	23.1	22.2
102.5°	293.9	228.7	152.3	94.7	63.5	49.4	41.3	35.3	30.7	28.1	27.5
105°	290.1	213.4	143.7	96.2	70.6	57.1	49.0	42.6	38.3	36.3	35.1
107.5°	264.8	197.1	139.5	100.2	77.9	64.7	56.6	50.3	46.3	44.4	43.5
110°	248.9	189.2	138.6	103.4	82.7	70.0	61.6	55.6	51.9	50.1	49.0



TEST NUMBER: P331377-930

CATALOG NUMBER: S122DIP-S865D330U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	237.8	184.2	138.8	106.9	87.3	75.1	66.4	60.7	57.2	55.2	54.1
115°	224.1	178.6	140.0	112.0	94.5	82.1	74.4	68.6	65.1	63.3	62.0
117.5°	215.5	175.9	142.1	117.6	101.1	89.7	81.6	76.1	73.0	71.3	70.1
120°	210.8	174.3	143.5	121.3	105.7	94.5	86.4	80.6	78.1	76.3	75.2
122.5°	206.9	173.3	145.0	124.5	110.1	99.5	91.2	85.5	82.7	81.0	80.1
125°	201.4	171.7	147.5	129.6	116.7	106.3	98.2	92.5	89.0	87.3	86.4
127.5°	196.2	170.7	149.9	134.4	122.8	112.7	104.4	98.9	95.1	92.6	91.5
130°	192.7	170.2	151.8	137.4	126.5	116.3	108.4	102.6	98.5	95.6	94.5
132.5°	190.0	170.0	153.7	140.4	129.7	120.1	112.0	106.0	101.7	98.7	97.3
135°	186.1	169.7	155.9	144.3	134.3	125.0	117.0	110.3	106.0	102.6	101.4
137.5°	183.4	169.6	157.8	147.3	137.9	128.8	121.3	114.8	110.1	106.7	105.3
140°	181.7	169.4	158.7	149.0	140.0	131.3	123.8	117.6	112.9	109.5	108.4
142.5°	180.2	169.4	159.4	150.3	141.6	133.2	126.2	120.1	115.4	112.3	111.3
145°	178.1	168.8	160.1	152.1	144.1	136.2	130.0	124.2	119.8	117.0	115.8
147.5°	175.9	167.8	160.4	153.1	146.0	138.7	133.1	128.2	124.3	121.5	120.7
150°	174.0	167.1	160.1	153.5	146.9	140.3	135.1	130.8	127.0	124.7	123.8
152.5°	172.4	165.9	159.7	153.8	147.8	141.9	137.2	133.1	129.8	127.5	127.1
155°	169.4	163.9	159.0	154.1	149.2	144.3	140.0	136.8	133.6	131.9	131.7
157.5°	166.6	161.8	157.7	154.1	150.2	146.0	142.4	139.9	137.1	135.7	135.4
160°	164.4	160.5	157.0	154.1	150.7	147.2	144.1	141.7	139.4	138.3	137.9
162.5°	162.7	159.3	156.3	153.8	150.9	147.9	145.4	143.3	141.5	140.3	140.6
165°	159.6	157.0	155.0	153.3	151.2	148.6	146.9	145.4	143.7	143.2	143.5
167.5°	156.6	155.0	153.7	152.9	151.2	149.3	148.2	147.2	146.0	145.5	145.9
170°	155.0	153.8	153.0	152.4	150.9	149.5	148.6	148.1	147.2	146.9	147.5
172.5°	153.4	152.5	152.1	151.7	150.7	149.8	149.1	148.8	147.9	148.1	148.4
175°	151.2	150.9	150.7	150.9	150.3	149.8	149.5	149.5	149.0	149.2	149.5
177.5°	150.0	149.8	150.0	150.5	150.0	149.8	149.8	149.8	149.4	149.5	150.0
180°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8



TEST NUMBER: P331377-930

CATALOG NUMBER: S122DIP-S865D330U930-4F0-1E-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°	11.1	13.0	13.1	14.5	13.9	14.1	14.5	14.4	14.1	13.6	13.1
90°	1.1	2.3	2.9	3.4	4.3	5.8	7.7	9.5	9.8	9.5	9.2
92.5°	5.1	7.2	8.4	10.4	13.0	19.6	28.8	36.9	37.4	31.6	25.1
95°	11.3	14.1	16.7	21.3	28.2	41.5	66.5	100.0	112.9	98.8	75.5
97.5°	17.9	21.0	24.9	30.2	38.1	54.7	89.7	145.2	192.7	202.2	176.1
100°	23.1	25.6	30.2	36.0	44.1	59.4	94.5	156.7	227.6	269.0	263.0
102.5°	28.1	30.7	35.3	41.3	49.4	63.5	94.7	152.3	228.7	293.9	319.9
105°	36.3	38.3	42.6	49.0	57.1	70.6	96.2	143.7	213.4	290.1	350.0
107.5°	44.4	46.3	50.3	56.6	64.7	77.9	100.2	139.5	197.1	264.8	328.3
110°	50.1	51.9	55.6	61.6	70.0	82.7	103.4	138.6	189.2	248.9	309.7





TEST NUMBER: P331377-930

CATALOG NUMBER: S122DIP-S865D330U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	55.2	57.2	60.7	66.4	75.1	87.3	106.9	138.8	184.2	237.8	292.6
115°	63.3	65.1	68.6	74.4	82.1	94.5	112.0	140.0	178.6	224.1	271.7
117.5°	71.3	73.0	76.1	81.6	89.7	101.1	117.6	142.1	175.9	215.5	255.8
120°	76.3	78.1	80.6	86.4	94.5	105.7	121.3	143.5	174.3	210.8	248.0
122.5°	81.0	82.7	85.5	91.2	99.5	110.1	124.5	145.0	173.3	206.9	241.8
125°	87.3	89.0	92.5	98.2	106.3	116.7	129.6	147.5	171.7	201.4	232.8
127.5°	92.6	95.1	98.9	104.4	112.7	122.8	134.4	149.9	170.7	196.2	223.8
130°	95.6	98.5	102.6	108.4	116.3	126.5	137.4	151.8	170.2	192.7	218.1
132.5°	98.7	101.7	106.0	112.0	120.1	129.7	140.4	153.7	170.0	190.0	212.5
135°	102.6	106.0	110.3	117.0	125.0	134.3	144.3	155.9	169.7	186.1	204.8
137.5°	106.7	110.1	114.8	121.3	128.8	137.9	147.3	157.8	169.6	183.4	198.7
140°	109.5	112.9	117.6	123.8	131.3	140.0	149.0	158.7	169.4	181.7	194.7
142.5°	112.3	115.4	120.1	126.2	133.2	141.6	150.3	159.4	169.4	180.2	191.5
145°	117.0	119.8	124.2	130.0	136.2	144.1	152.1	160.1	168.8	178.1	186.9
147.5°	121.5	124.3	128.2	133.1	138.7	146.0	153.1	160.4	167.8	175.9	183.4
150°	124.7	127.0	130.8	135.1	140.3	146.9	153.5	160.1	167.1	174.0	180.9
152.5°	127.5	129.8	133.1	137.2	141.9	147.8	153.8	159.7	165.9	172.4	178.4
155°	131.9	133.6	136.8	140.0	144.3	149.2	154.1	159.0	163.9	169.4	174.9
157.5°	135.7	137.1	139.9	142.4	146.0	150.2	154.1	157.7	161.8	166.6	170.8
160°	138.3	139.4	141.7	144.1	147.2	150.7	154.1	157.0	160.5	164.4	168.2
162.5°	140.3	141.5	143.3	145.4	147.9	150.9	153.8	156.3	159.3	162.7	165.7
165°	143.2	143.7	145.4	146.9	148.6	151.2	153.3	155.0	157.0	159.6	161.9
167.5°	145.5	146.0	147.2	148.2	149.3	151.2	152.9	153.7	155.0	156.6	158.2
170°	146.9	147.2	148.1	148.6	149.5	150.9	152.4	153.0	153.8	155.0	156.5
172.5°	148.1	147.9	148.8	149.1	149.8	150.7	151.7	152.1	152.5	153.4	154.3
175°	149.2	149.0	149.5	149.5	149.8	150.3	150.9	150.7	150.9	151.2	152.1
177.5°	149.5	149.4	149.8	149.8	149.8	150.0	150.5	150.0	149.8	150.0	150.5
180°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8



TEST NUMBER: P331377-930

CATALOG NUMBER: S122DIP-S865D330U930-4F0-1E-UDD-A4

**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°	13.5	13.5	13.1	13.1	13.6	13.1	13.1
90°	8.6	9.2	9.5	9.5	9.5	9.5	9.5
92.5°	21.5	19.2	17.4	17.1	16.2	16.4	16.0
95°	57.9	45.8	39.5	35.7	33.4	32.5	32.9
97.5°	144.1	112.9	92.1	78.4	71.3	67.1	64.7
100°	227.3	187.8	153.0	129.1	116.7	108.4	103.1
102.5°	311.9	283.0	246.1	220.0	198.9	188.5	181.5
105°	382.5	386.3	376.8	358.9	341.0	328.6	324.7
107.5°	377.4	407.3	421.3	423.5	422.6	420.0	414.7
110°	361.3	398.1	421.8	434.1	439.6	442.2	441.9



TEST NUMBER: P331377-930

CATALOG NUMBER: S122DIP-S865D330U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	342.1	381.5	408.6	425.8	435.0	439.9	441.4
115°	316.0	353.8	383.4	403.9	417.1	424.6	427.2
117.5°	294.8	329.1	356.9	377.7	391.8	399.6	401.8
120°	283.7	314.3	340.5	360.7	374.2	382.5	385.5
122.5°	274.5	303.5	327.1	345.2	358.6	366.0	368.4
125°	262.4	287.8	309.4	326.1	337.0	344.2	346.6
127.5°	250.7	274.6	294.5	309.1	319.4	325.5	327.4
130°	242.9	265.6	284.6	298.7	308.5	314.3	316.6
132.5°	235.5	256.4	274.3	288.1	297.9	303.2	305.3
135°	223.8	242.9	258.9	271.3	280.9	286.1	287.2
137.5°	214.6	229.7	243.7	255.0	263.2	267.7	269.5
140°	208.6	221.8	234.5	243.7	251.2	255.5	257.2
142.5°	203.3	214.7	225.3	234.0	240.8	244.7	245.0
145°	196.5	205.4	213.8	220.6	225.6	228.4	229.3
147.5°	190.9	197.9	204.0	209.7	213.6	215.6	216.1
150°	187.3	193.3	198.4	202.8	206.3	208.0	208.3
152.5°	184.3	189.4	193.9	197.3	200.2	201.5	201.6
155°	179.4	183.8	186.9	190.1	192.2	193.3	192.7
157.5°	174.6	178.2	180.8	183.0	184.7	185.2	185.2
160°	171.4	174.6	176.6	178.6	180.0	180.3	180.3
162.5°	168.4	171.1	172.7	174.7	175.7	175.9	175.7
165°	163.9	165.9	167.1	168.2	169.4	169.4	169.1
167.5°	159.8	161.2	162.2	162.7	163.4	163.3	163.0
170°	157.3	158.4	159.0	159.3	160.1	159.9	159.3
172.5°	155.0	155.9	156.2	156.5	156.9	156.6	156.3
175°	152.4	152.7	153.0	153.0	153.3	153.0	152.4
177.5°	150.5	150.7	150.7	150.7	150.7	150.5	150.0
180°	149.8	149.8	149.8	149.8	149.8	149.8	149.8

(END OF REPORT)