

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: P331384-930

Luminaire Tested: **SA2XXDIP-C865D530U930-4F0-1E-UDD-A**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331384-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXDIP-C865D530U930-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 530 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

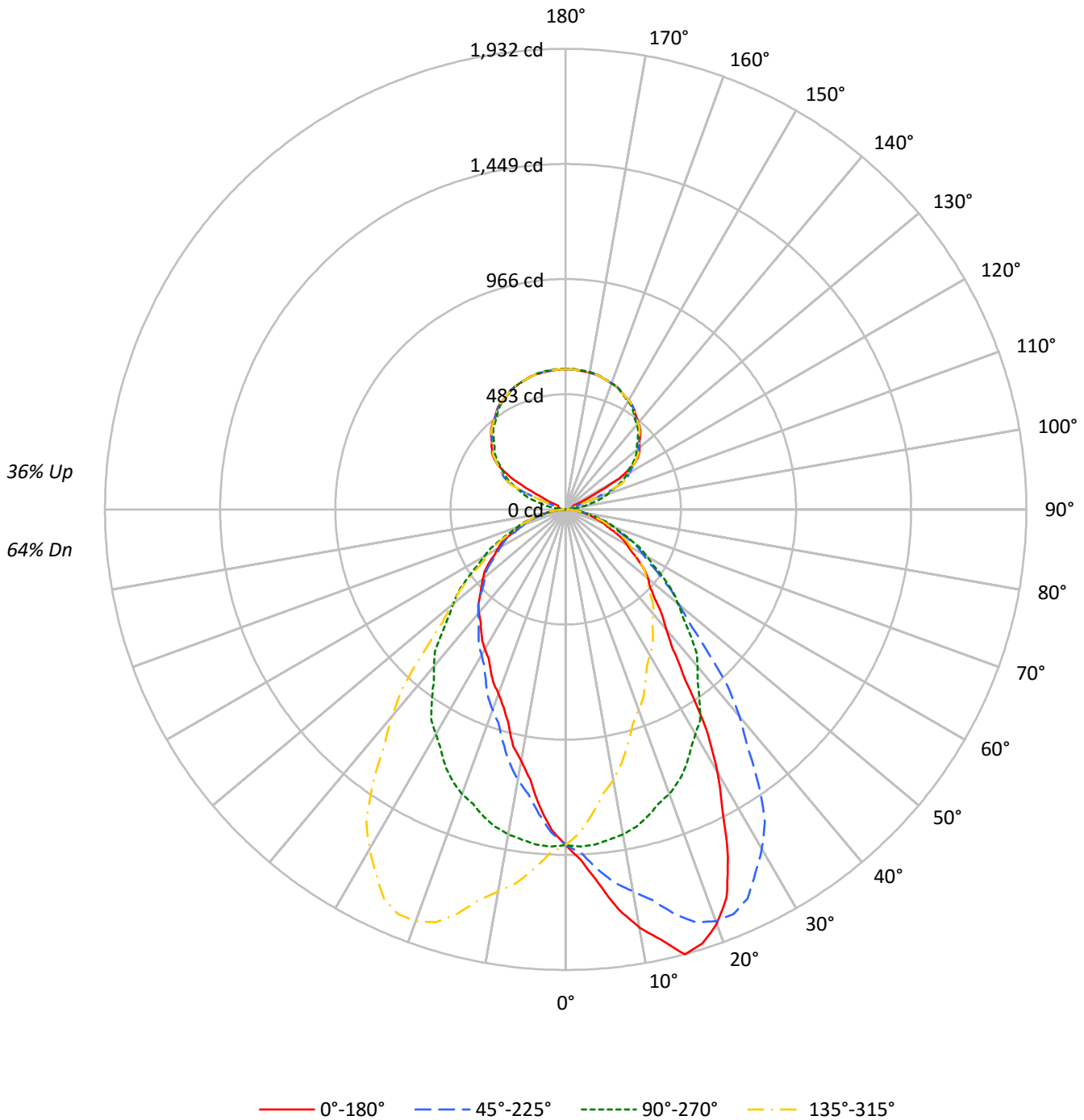
Lumens per Lamp: N/A  
Luminaire Lumens: 4830.2 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 48.8  
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



TEST NUMBER: P331384-930  
CATALOG NUMBER: SA2XXDIP-C865D530U930-4F0-1E-UDD-A

### Luminous Intensity Polar Plot





TEST NUMBER: P331384-930

CATALOG NUMBER: SA2XXDIP-C865D530U930-4F0-1E-UDD-A

**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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	64				
1	102	97	94	90	95	92	88	86	81	79	76	71	69	68	62	61	60	55				
2	93	86	80	75	87	81	76	71	72	68	64	63	60	58	56	53	51	47				
3	85	76	69	63	80	72	65	60	64	59	55	57	53	49	50	47	44	41				
4	78	68	60	54	73	64	57	52	57	52	47	51	47	43	45	42	39	36				
5	72	61	53	47	68	58	50	45	52	46	41	46	41	38	41	37	34	31				
6	67	55	47	41	63	52	45	40	47	41	36	42	37	33	37	33	30	28				
7	62	50	42	36	58	47	40	35	43	37	32	38	33	30	34	30	27	25				
8	58	46	38	33	54	43	36	31	39	33	29	35	30	27	32	28	25	23				
9	54	42	34	29	51	40	33	28	36	30	26	33	28	24	29	25	22	20				
10	51	39	31	26	48	37	30	26	33	28	24	30	26	22	27	23	21	19				

**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: P331384-930

CATALOG NUMBER: SA2XXDIP-C865D530U930-4F0-1E-UDD-A

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.1	2.8
10°-20°	389.7	8.1
20°-30°	565.6	11.7
30°-40°	596.9	12.4
40°-50°	528.5	10.9
50°-60°	421.7	8.7
60°-70°	286.7	5.9
70°-80°	147.0	3.0
80°-90°	36.9	0.8
90°-100°	19.6	0.4
100°-110°	71.9	1.5
110°-120°	192.3	4.0
120°-130°	317.4	6.6
130°-140°	337.5	7.0
140°-150°	313.7	6.5
150°-160°	252.2	5.2
160°-170°	162.5	3.4
170°-180°	55.9	1.2
0°-30°	1089.4	22.6
0°-40°	1686.3	34.9
0°-60°	2636.5	54.6
0°-90°	3107.0	64.3
90°-120°	283.8	5.9
90°-150°	1252.5	25.9
90°-180°	1723.0	35.7
0°-180°	4830.2	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°	12	0	12	0	12	7
95°	18	28	18	28	18	17
105°	32	129	32	129	32	34
115°	35	245	35	245	35	87
125°	364	346	364	346	364	315
135°	442	428	442	428	442	341
145°	504	496	504	496	504	315
155°	547	547	547	547	547	252
165°	575	576	575	576	575	162
175°	586	589	586	589	586	56
180°	588	588	588	588	588	



TEST NUMBER: P331384-930

CATALOG NUMBER: SA2XXDIP-C865D530U930-4F0-1E-UDD-A

**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°	13.5	13.5	13.9	13.5	13.4	13.8	13.7	13.1	13.5	13.9	14.1
90°	11.5	11.3	11.1	10.9	10.8	10.4	9.9	9.5	9.0	8.5	7.7
92.5°	11.5	11.4	11.3	11.2	11.0	10.8	10.6	10.4	10.1	9.9	9.5
95°	18.3	18.4	18.5	18.6	18.7	18.5	18.0	17.5	17.0	16.6	15.9
97.5°	24.5	24.3	24.2	24.1	24.0	23.7	23.3	23.0	22.6	22.2	20.7
100°	28.5	28.3	28.1	28.0	27.7	27.3	26.5	25.8	25.0	24.2	22.7
102.5°	30.6	30.2	30.0	29.8	29.5	28.9	27.9	26.9	25.9	24.9	38.4
105°	32.4	32.0	31.6	31.2	30.8	30.1	29.1	28.0	27.0	25.9	51.8
107.5°	33.3	32.9	32.5	32.1	31.8	32.1	33.2	34.2	35.3	36.4	67.3
110°	33.6	33.3	32.9	32.4	32.1	36.6	46.1	55.5	65.0	74.4	101.7



TEST NUMBER: P331384-930

CATALOG NUMBER: SA2XXDIP-C865D530U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	33.9	33.7	33.3	33.0	32.8	49.8	84.3	118.8	153.3	187.8	194.5
115°	34.9	41.7	48.5	55.3	62.1	87.4	131.2	175.0	218.7	262.5	260.2
117.5°	142.4	164.9	187.2	209.5	232.0	248.4	259.0	269.6	280.2	290.7	289.2
120°	259.5	272.3	285.1	297.8	310.6	316.4	315.3	314.1	313.0	311.9	310.1
122.5°	323.8	326.4	328.8	331.3	333.8	334.7	334.0	333.3	332.6	332.0	330.1
125°	363.8	363.5	363.2	363.0	362.6	362.2	361.5	360.9	360.2	359.5	357.8
127.5°	389.0	388.9	388.9	388.8	388.7	388.2	387.3	386.3	385.3	384.4	383.0
130°	404.6	404.7	404.8	404.9	405.0	404.6	403.5	402.4	401.5	400.4	399.3
132.5°	420.0	420.0	420.1	420.2	420.3	420.0	419.1	418.2	417.3	416.4	415.3
135°	442.1	442.3	442.5	442.6	442.9	442.5	441.5	440.6	439.6	438.6	437.8
137.5°	462.3	462.6	462.8	463.2	463.5	463.3	462.3	461.4	460.5	459.5	458.5
140°	474.8	475.3	475.8	476.2	476.7	476.5	475.6	474.8	474.0	473.1	472.1
142.5°	487.1	487.5	488.0	488.5	489.0	488.9	488.0	487.3	486.5	485.8	484.5
145°	504.2	504.7	505.2	505.6	506.1	506.0	505.3	504.7	504.0	503.4	501.7
147.5°	519.3	519.7	520.1	520.5	520.8	520.8	520.3	519.8	519.3	518.9	517.2
150°	528.5	528.9	529.4	529.9	530.4	530.3	529.7	529.1	528.6	528.0	526.5
152.5°	536.3	536.9	537.5	538.2	538.7	538.8	538.3	537.7	537.1	536.5	535.1
155°	547.1	548.0	548.7	549.4	550.2	550.3	549.8	549.2	548.6	548.0	546.9
157.5°	557.1	557.8	558.6	559.3	560.1	560.1	559.5	558.8	558.2	557.6	556.8
160°	562.9	563.5	564.3	564.9	565.6	565.6	565.0	564.4	563.9	563.4	562.8
162.5°	567.7	568.5	569.3	570.1	571.0	571.0	570.4	569.7	569.1	568.4	567.9
165°	574.8	575.5	576.2	576.8	577.5	577.5	576.8	576.2	575.5	574.8	574.5
167.5°	579.4	580.2	581.1	581.9	582.8	582.9	582.2	581.5	580.8	580.2	579.9
170°	582.0	582.9	583.8	584.6	585.5	585.5	584.9	584.2	583.6	582.9	582.7
172.5°	584.1	585.0	585.8	586.7	587.5	587.6	586.9	586.3	585.6	585.0	584.7
175°	585.9	586.9	587.7	588.7	589.7	589.8	589.1	588.5	587.8	587.2	586.9
177.5°	587.0	587.7	588.3	589.1	589.7	589.8	589.3	588.7	588.2	587.7	587.6
180°	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0



TEST NUMBER: P331384-930

CATALOG NUMBER: SA2XXDIP-C865D530U930-4F0-1E-UDD-A

**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°	14.3	14.3	14.1	14.8	13.3	13.0	11.1	9.6	9.4	9.1	8.5
90°	7.0	6.3	5.5	4.6	3.5	2.5	1.5	0.4	1.5	2.5	3.5
92.5°	9.1	8.7	8.4	8.2	8.3	8.4	8.5	8.6	8.5	8.4	8.3
95°	15.2	14.6	13.9	15.2	18.3	21.4	24.5	27.6	24.5	21.4	18.3
97.5°	19.2	17.6	16.1	19.7	28.5	37.3	46.1	54.9	46.1	37.3	28.5
100°	21.0	19.4	17.9	23.5	36.4	49.4	62.4	75.3	62.4	49.4	36.4
102.5°	51.9	65.3	78.7	86.8	89.5	92.3	95.1	97.8	95.1	92.3	89.5
105°	77.6	103.4	129.2	140.7	137.9	135.0	132.2	129.3	132.2	135.0	137.9
107.5°	98.2	129.2	160.1	174.5	172.2	169.9	167.6	165.3	167.6	169.9	172.2
110°	129.1	156.5	183.8	196.4	194.4	192.5	190.5	188.5	190.5	192.5	194.4





TEST NUMBER: P331384-930

CATALOG NUMBER: SA2XXDIP-C865D530U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	201.3	208.1	214.8	217.3	215.6	213.8	212.1	210.3	212.1	213.8	215.6
115°	257.8	255.4	253.1	251.1	249.5	247.9	246.2	244.7	246.2	247.9	249.5
117.5°	287.6	285.9	284.3	282.6	280.8	279.0	277.2	275.4	277.2	279.0	280.8
120°	308.5	306.8	305.1	303.5	302.1	300.7	299.2	297.8	299.2	300.7	302.1
122.5°	328.2	326.4	324.6	322.9	321.4	319.9	318.4	316.9	318.4	319.9	321.4
125°	356.0	354.2	352.4	350.8	349.6	348.4	347.2	345.9	347.2	348.4	349.6
127.5°	381.7	380.3	379.0	377.6	376.3	375.0	373.6	372.2	373.6	375.0	376.3
130°	398.3	397.3	396.2	394.9	393.5	391.9	390.4	388.9	390.4	391.9	393.5
132.5°	414.3	413.3	412.2	411.1	409.8	408.5	407.2	405.9	407.2	408.5	409.8
135°	437.0	436.1	435.3	434.1	432.6	431.0	429.6	428.0	429.6	431.0	432.6
137.5°	457.6	456.6	455.7	454.6	453.6	452.5	451.4	450.5	451.4	452.5	453.6
140°	471.1	470.0	469.0	468.1	467.3	466.6	465.8	465.0	465.8	466.6	467.3
142.5°	483.3	482.2	480.9	480.0	479.3	478.7	478.0	477.3	478.0	478.7	479.3
145°	500.1	498.6	496.9	496.2	496.3	496.4	496.4	496.5	496.4	496.4	496.3
147.5°	515.7	514.0	512.5	511.8	512.3	512.6	512.9	513.3	512.9	512.6	512.3
150°	525.0	523.5	522.0	521.5	522.2	522.9	523.5	524.2	523.5	522.9	522.2
152.5°	533.7	532.2	530.8	530.4	531.2	531.9	532.6	533.4	532.6	531.9	531.2
155°	545.8	544.6	543.5	543.3	544.2	545.0	545.9	546.7	545.9	545.0	544.2
157.5°	556.0	555.1	554.4	554.3	555.1	555.8	556.5	557.2	556.5	555.8	555.1
160°	562.2	561.7	561.1	561.1	561.7	562.2	562.8	563.4	562.8	562.2	561.7
162.5°	567.4	567.0	566.5	566.6	567.0	567.6	568.2	568.8	568.2	567.6	567.0
165°	574.2	574.0	573.7	573.8	574.4	574.9	575.5	576.1	575.5	574.9	574.4
167.5°	579.7	579.4	579.1	579.3	579.8	580.4	581.0	581.6	581.0	580.4	579.8
170°	582.5	582.4	582.1	582.4	582.9	583.5	584.1	584.6	584.1	583.5	582.9
172.5°	584.6	584.4	584.2	584.4	585.0	585.5	586.1	586.7	586.1	585.5	585.0
175°	586.8	586.6	586.4	586.6	587.3	588.0	588.6	589.3	588.6	588.0	587.3
177.5°	587.5	587.4	587.3	587.6	588.2	588.6	589.2	589.7	589.2	588.6	588.2
180°	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0



TEST NUMBER: P331384-930

CATALOG NUMBER: SA2XXDIP-C865D530U930-4F0-1E-UDD-A

**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°	8.2	8.0	7.7	7.9	7.6	7.3	7.0	7.1	7.2	6.4	6.4
90°	4.6	5.5	6.3	7.0	7.7	8.5	9.0	9.5	9.9	10.4	10.8
92.5°	8.2	8.4	8.7	9.1	9.5	9.9	10.1	10.4	10.6	10.8	11.0
95°	15.2	13.9	14.6	15.2	15.9	16.6	17.0	17.5	18.0	18.5	18.7
97.5°	19.7	16.1	17.6	19.2	20.7	22.2	22.6	23.0	23.3	23.7	24.0
100°	23.5	17.9	19.4	21.0	22.7	24.2	25.0	25.8	26.5	27.3	27.7
102.5°	86.8	78.7	65.3	51.9	38.4	24.9	25.9	26.9	27.9	28.9	29.5
105°	140.7	129.2	103.4	77.6	51.8	25.9	27.0	28.0	29.1	30.1	30.8
107.5°	174.5	160.1	129.2	98.2	67.3	36.4	35.3	34.2	33.2	32.1	31.8
110°	196.4	183.8	156.5	129.1	101.7	74.4	65.0	55.5	46.1	36.6	32.1



TEST NUMBER: P331384-930

CATALOG NUMBER: SA2XXDIP-C865D530U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	217.3	214.8	208.1	201.3	194.5	187.8	153.3	118.8	84.3	49.8	32.8
115°	251.1	253.1	255.4	257.8	260.2	262.5	218.7	175.0	131.2	87.4	62.1
117.5°	282.6	284.3	285.9	287.6	289.2	290.7	280.2	269.6	259.0	248.4	232.0
120°	303.5	305.1	306.8	308.5	310.1	311.9	313.0	314.1	315.3	316.4	310.6
122.5°	322.9	324.6	326.4	328.2	330.1	332.0	332.6	333.3	334.0	334.7	333.8
125°	350.8	352.4	354.2	356.0	357.8	359.5	360.2	360.9	361.5	362.2	362.6
127.5°	377.6	379.0	380.3	381.7	383.0	384.4	385.3	386.3	387.3	388.2	388.7
130°	394.9	396.2	397.3	398.3	399.3	400.4	401.5	402.4	403.5	404.6	405.0
132.5°	411.1	412.2	413.3	414.3	415.3	416.4	417.3	418.2	419.1	420.0	420.3
135°	434.1	435.3	436.1	437.0	437.8	438.6	439.6	440.6	441.5	442.5	442.9
137.5°	454.6	455.7	456.6	457.6	458.5	459.5	460.5	461.4	462.3	463.3	463.5
140°	468.1	469.0	470.0	471.1	472.1	473.1	474.0	474.8	475.6	476.5	476.7
142.5°	480.0	480.9	482.2	483.3	484.5	485.8	486.5	487.3	488.0	488.9	489.0
145°	496.2	496.9	498.6	500.1	501.7	503.4	504.0	504.7	505.3	506.0	506.1
147.5°	511.8	512.5	514.0	515.7	517.2	518.9	519.3	519.8	520.3	520.8	520.8
150°	521.5	522.0	523.5	525.0	526.5	528.0	528.6	529.1	529.7	530.3	530.4
152.5°	530.4	530.8	532.2	533.7	535.1	536.5	537.1	537.7	538.3	538.8	538.7
155°	543.3	543.5	544.6	545.8	546.9	548.0	548.6	549.2	549.8	550.3	550.2
157.5°	554.3	554.4	555.1	556.0	556.8	557.6	558.2	558.8	559.5	560.1	560.1
160°	561.1	561.1	561.7	562.2	562.8	563.4	563.9	564.4	565.0	565.6	565.6
162.5°	566.6	566.5	567.0	567.4	567.9	568.4	569.1	569.7	570.4	571.0	571.0
165°	573.8	573.7	574.0	574.2	574.5	574.8	575.5	576.2	576.8	577.5	577.5
167.5°	579.3	579.1	579.4	579.7	579.9	580.2	580.8	581.5	582.2	582.9	582.8
170°	582.4	582.1	582.4	582.5	582.7	582.9	583.6	584.2	584.9	585.5	585.5
172.5°	584.4	584.2	584.4	584.6	584.7	585.0	585.6	586.3	586.9	587.6	587.5
175°	586.6	586.4	586.6	586.8	586.9	587.2	587.8	588.5	589.1	589.8	589.7
177.5°	587.6	587.3	587.4	587.5	587.6	587.7	588.2	588.7	589.3	589.8	589.7
180°	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0



TEST NUMBER: P331384-930

CATALOG NUMBER: SA2XXDIP-C865D530U930-4F0-1E-UDD-A

**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°	6.5	6.1	6.1	5.8	6.1	6.1	6.5	6.4	6.4	7.2	7.1
90°	10.9	11.1	11.3	11.5	11.3	11.1	10.9	10.8	10.4	9.9	9.5
92.5°	11.2	11.3	11.4	11.5	11.4	11.3	11.2	11.0	10.8	10.6	10.4
95°	18.6	18.5	18.4	18.3	18.4	18.5	18.6	18.7	18.5	18.0	17.5
97.5°	24.1	24.2	24.3	24.5	24.3	24.2	24.1	24.0	23.7	23.3	23.0
100°	28.0	28.1	28.3	28.5	28.3	28.1	28.0	27.7	27.3	26.5	25.8
102.5°	29.8	30.0	30.2	30.6	30.2	30.0	29.8	29.5	28.9	27.9	26.9
105°	31.2	31.6	32.0	32.4	32.0	31.6	31.2	30.8	30.1	29.1	28.0
107.5°	32.1	32.5	32.9	33.3	32.9	32.5	32.1	31.8	32.1	33.2	34.2
110°	32.4	32.9	33.3	33.6	33.3	32.9	32.4	32.1	36.6	46.1	55.5



TEST NUMBER: P331384-930

CATALOG NUMBER: SA2XXDIP-C865D530U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	33.0	33.3	33.7	33.9	33.7	33.3	33.0	32.8	49.8	84.3	118.8
115°	55.3	48.5	41.7	34.9	41.7	48.5	55.3	62.1	87.4	131.2	175.0
117.5°	209.5	187.2	164.9	142.4	164.9	187.2	209.5	232.0	248.4	259.0	269.6
120°	297.8	285.1	272.3	259.5	272.3	285.1	297.8	310.6	316.4	315.3	314.1
122.5°	331.3	328.8	326.4	323.8	326.4	328.8	331.3	333.8	334.7	334.0	333.3
125°	363.0	363.2	363.5	363.8	363.5	363.2	363.0	362.6	362.2	361.5	360.9
127.5°	388.8	388.9	388.9	389.0	388.9	388.9	388.8	388.7	388.2	387.3	386.3
130°	404.9	404.8	404.7	404.6	404.7	404.8	404.9	405.0	404.6	403.5	402.4
132.5°	420.2	420.1	420.0	420.0	420.0	420.1	420.2	420.3	420.0	419.1	418.2
135°	442.6	442.5	442.3	442.1	442.3	442.5	442.6	442.9	442.5	441.5	440.6
137.5°	463.2	462.8	462.6	462.3	462.6	462.8	463.2	463.5	463.3	462.3	461.4
140°	476.2	475.8	475.3	474.8	475.3	475.8	476.2	476.7	476.5	475.6	474.8
142.5°	488.5	488.0	487.5	487.1	487.5	488.0	488.5	489.0	488.9	488.0	487.3
145°	505.6	505.2	504.7	504.2	504.7	505.2	505.6	506.1	506.0	505.3	504.7
147.5°	520.5	520.1	519.7	519.3	519.7	520.1	520.5	520.8	520.8	520.3	519.8
150°	529.9	529.4	528.9	528.5	528.9	529.4	529.9	530.4	530.3	529.7	529.1
152.5°	538.2	537.5	536.9	536.3	536.9	537.5	538.2	538.7	538.8	538.3	537.7
155°	549.4	548.7	548.0	547.1	548.0	548.7	549.4	550.2	550.3	549.8	549.2
157.5°	559.3	558.6	557.8	557.1	557.8	558.6	559.3	560.1	560.1	559.5	558.8
160°	564.9	564.3	563.5	562.9	563.5	564.3	564.9	565.6	565.6	565.0	564.4
162.5°	570.1	569.3	568.5	567.7	568.5	569.3	570.1	571.0	571.0	570.4	569.7
165°	576.8	576.2	575.5	574.8	575.5	576.2	576.8	577.5	577.5	576.8	576.2
167.5°	581.9	581.1	580.2	579.4	580.2	581.1	581.9	582.8	582.9	582.2	581.5
170°	584.6	583.8	582.9	582.0	582.9	583.8	584.6	585.5	585.5	584.9	584.2
172.5°	586.7	585.8	585.0	584.1	585.0	585.8	586.7	587.5	587.6	586.9	586.3
175°	588.7	587.7	586.9	585.9	586.9	587.7	588.7	589.7	589.8	589.1	588.5
177.5°	589.1	588.3	587.7	587.0	587.7	588.3	589.1	589.7	589.8	589.3	588.7
180°	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0



TEST NUMBER: P331384-930  
 CATALOG NUMBER: SA2XXDIP-C865D530U930-4F0-1E-UDD-A

**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°	7.0	7.3	7.6	7.9	7.7	8.0	8.2	8.5	9.1	9.4	9.6
90°	9.0	8.5	7.7	7.0	6.3	5.5	4.6	3.5	2.5	1.5	0.4
92.5°	10.1	9.9	9.5	9.1	8.7	8.4	8.2	8.3	8.4	8.5	8.6
95°	17.0	16.6	15.9	15.2	14.6	13.9	15.2	18.3	21.4	24.5	27.6
97.5°	22.6	22.2	20.7	19.2	17.6	16.1	19.7	28.5	37.3	46.1	54.9
100°	25.0	24.2	22.7	21.0	19.4	17.9	23.5	36.4	49.4	62.4	75.3
102.5°	25.9	24.9	38.4	51.9	65.3	78.7	86.8	89.5	92.3	95.1	97.8
105°	27.0	25.9	51.8	77.6	103.4	129.2	140.7	137.9	135.0	132.2	129.3
107.5°	35.3	36.4	67.3	98.2	129.2	160.1	174.5	172.2	169.9	167.6	165.3
110°	65.0	74.4	101.7	129.1	156.5	183.8	196.4	194.4	192.5	190.5	188.5



TEST NUMBER: P331384-930

CATALOG NUMBER: SA2XXDIP-C865D530U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	153.3	187.8	194.5	201.3	208.1	214.8	217.3	215.6	213.8	212.1	210.3
115°	218.7	262.5	260.2	257.8	255.4	253.1	251.1	249.5	247.9	246.2	244.7
117.5°	280.2	290.7	289.2	287.6	285.9	284.3	282.6	280.8	279.0	277.2	275.4
120°	313.0	311.9	310.1	308.5	306.8	305.1	303.5	302.1	300.7	299.2	297.8
122.5°	332.6	332.0	330.1	328.2	326.4	324.6	322.9	321.4	319.9	318.4	316.9
125°	360.2	359.5	357.8	356.0	354.2	352.4	350.8	349.6	348.4	347.2	345.9
127.5°	385.3	384.4	383.0	381.7	380.3	379.0	377.6	376.3	375.0	373.6	372.2
130°	401.5	400.4	399.3	398.3	397.3	396.2	394.9	393.5	391.9	390.4	388.9
132.5°	417.3	416.4	415.3	414.3	413.3	412.2	411.1	409.8	408.5	407.2	405.9
135°	439.6	438.6	437.8	437.0	436.1	435.3	434.1	432.6	431.0	429.6	428.0
137.5°	460.5	459.5	458.5	457.6	456.6	455.7	454.6	453.6	452.5	451.4	450.5
140°	474.0	473.1	472.1	471.1	470.0	469.0	468.1	467.3	466.6	465.8	465.0
142.5°	486.5	485.8	484.5	483.3	482.2	480.9	480.0	479.3	478.7	478.0	477.3
145°	504.0	503.4	501.7	500.1	498.6	496.9	496.2	496.3	496.4	496.4	496.5
147.5°	519.3	518.9	517.2	515.7	514.0	512.5	511.8	512.3	512.6	512.9	513.3
150°	528.6	528.0	526.5	525.0	523.5	522.0	521.5	522.2	522.9	523.5	524.2
152.5°	537.1	536.5	535.1	533.7	532.2	530.8	530.4	531.2	531.9	532.6	533.4
155°	548.6	548.0	546.9	545.8	544.6	543.5	543.3	544.2	545.0	545.9	546.7
157.5°	558.2	557.6	556.8	556.0	555.1	554.4	554.3	555.1	555.8	556.5	557.2
160°	563.9	563.4	562.8	562.2	561.7	561.1	561.1	561.7	562.2	562.8	563.4
162.5°	569.1	568.4	567.9	567.4	567.0	566.5	566.6	567.0	567.6	568.2	568.8
165°	575.5	574.8	574.5	574.2	574.0	573.7	573.8	574.4	574.9	575.5	576.1
167.5°	580.8	580.2	579.9	579.7	579.4	579.1	579.3	579.8	580.4	581.0	581.6
170°	583.6	582.9	582.7	582.5	582.4	582.1	582.4	582.9	583.5	584.1	584.6
172.5°	585.6	585.0	584.7	584.6	584.4	584.2	584.4	585.0	585.5	586.1	586.7
175°	587.8	587.2	586.9	586.8	586.6	586.4	586.6	587.3	588.0	588.6	589.3
177.5°	588.2	587.7	587.6	587.5	587.4	587.3	587.6	588.2	588.6	589.2	589.7
180°	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0



TEST NUMBER: P331384-930  
 CATALOG NUMBER: SA2XXDIP-C865D530U930-4F0-1E-UDD-A

**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	13.3	14.8	14.1	14.3	14.3	14.1	13.9	13.5	13.1
90°	1.5	2.5	3.5	4.6	5.5	6.3	7.0	7.7	8.5	9.0	9.5
92.5°	8.5	8.4	8.3	8.2	8.4	8.7	9.1	9.5	9.9	10.1	10.4
95°	24.5	21.4	18.3	15.2	13.9	14.6	15.2	15.9	16.6	17.0	17.5
97.5°	46.1	37.3	28.5	19.7	16.1	17.6	19.2	20.7	22.2	22.6	23.0
100°	62.4	49.4	36.4	23.5	17.9	19.4	21.0	22.7	24.2	25.0	25.8
102.5°	95.1	92.3	89.5	86.8	78.7	65.3	51.9	38.4	24.9	25.9	26.9
105°	132.2	135.0	137.9	140.7	129.2	103.4	77.6	51.8	25.9	27.0	28.0
107.5°	167.6	169.9	172.2	174.5	160.1	129.2	98.2	67.3	36.4	35.3	34.2
110°	190.5	192.5	194.4	196.4	183.8	156.5	129.1	101.7	74.4	65.0	55.5





TEST NUMBER: P331384-930  
 CATALOG NUMBER: SA2XXDIP-C865D530U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	212.1	213.8	215.6	217.3	214.8	208.1	201.3	194.5	187.8	153.3	118.8
115°	246.2	247.9	249.5	251.1	253.1	255.4	257.8	260.2	262.5	218.7	175.0
117.5°	277.2	279.0	280.8	282.6	284.3	285.9	287.6	289.2	290.7	280.2	269.6
120°	299.2	300.7	302.1	303.5	305.1	306.8	308.5	310.1	311.9	313.0	314.1
122.5°	318.4	319.9	321.4	322.9	324.6	326.4	328.2	330.1	332.0	332.6	333.3
125°	347.2	348.4	349.6	350.8	352.4	354.2	356.0	357.8	359.5	360.2	360.9
127.5°	373.6	375.0	376.3	377.6	379.0	380.3	381.7	383.0	384.4	385.3	386.3
130°	390.4	391.9	393.5	394.9	396.2	397.3	398.3	399.3	400.4	401.5	402.4
132.5°	407.2	408.5	409.8	411.1	412.2	413.3	414.3	415.3	416.4	417.3	418.2
135°	429.6	431.0	432.6	434.1	435.3	436.1	437.0	437.8	438.6	439.6	440.6
137.5°	451.4	452.5	453.6	454.6	455.7	456.6	457.6	458.5	459.5	460.5	461.4
140°	465.8	466.6	467.3	468.1	469.0	470.0	471.1	472.1	473.1	474.0	474.8
142.5°	478.0	478.7	479.3	480.0	480.9	482.2	483.3	484.5	485.8	486.5	487.3
145°	496.4	496.4	496.3	496.2	496.9	498.6	500.1	501.7	503.4	504.0	504.7
147.5°	512.9	512.6	512.3	511.8	512.5	514.0	515.7	517.2	518.9	519.3	519.8
150°	523.5	522.9	522.2	521.5	522.0	523.5	525.0	526.5	528.0	528.6	529.1
152.5°	532.6	531.9	531.2	530.4	530.8	532.2	533.7	535.1	536.5	537.1	537.7
155°	545.9	545.0	544.2	543.3	543.5	544.6	545.8	546.9	548.0	548.6	549.2
157.5°	556.5	555.8	555.1	554.3	554.4	555.1	556.0	556.8	557.6	558.2	558.8
160°	562.8	562.2	561.7	561.1	561.1	561.7	562.2	562.8	563.4	563.9	564.4
162.5°	568.2	567.6	567.0	566.6	566.5	567.0	567.4	567.9	568.4	569.1	569.7
165°	575.5	574.9	574.4	573.8	573.7	574.0	574.2	574.5	574.8	575.5	576.2
167.5°	581.0	580.4	579.8	579.3	579.1	579.4	579.7	579.9	580.2	580.8	581.5
170°	584.1	583.5	582.9	582.4	582.1	582.4	582.5	582.7	582.9	583.6	584.2
172.5°	586.1	585.5	585.0	584.4	584.2	584.4	584.6	584.7	585.0	585.6	586.3
175°	588.6	588.0	587.3	586.6	586.4	586.6	586.8	586.9	587.2	587.8	588.5
177.5°	589.2	588.6	588.2	587.6	587.3	587.4	587.5	587.6	587.7	588.2	588.7
180°	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0



TEST NUMBER: P331384-930

CATALOG NUMBER: SA2XXDIP-C865D530U930-4F0-1E-UDD-A

**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°	13.7	13.8	13.4	13.5	13.9	13.5	13.5
90°	9.9	10.4	10.8	10.9	11.1	11.3	11.5
92.5°	10.6	10.8	11.0	11.2	11.3	11.4	11.5
95°	18.0	18.5	18.7	18.6	18.5	18.4	18.3
97.5°	23.3	23.7	24.0	24.1	24.2	24.3	24.5
100°	26.5	27.3	27.7	28.0	28.1	28.3	28.5
102.5°	27.9	28.9	29.5	29.8	30.0	30.2	30.6
105°	29.1	30.1	30.8	31.2	31.6	32.0	32.4
107.5°	33.2	32.1	31.8	32.1	32.5	32.9	33.3
110°	46.1	36.6	32.1	32.4	32.9	33.3	33.6



TEST NUMBER: P331384-930

CATALOG NUMBER: SA2XXDIP-C865D530U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	84.3	49.8	32.8	33.0	33.3	33.7	33.9
115°	131.2	87.4	62.1	55.3	48.5	41.7	34.9
117.5°	259.0	248.4	232.0	209.5	187.2	164.9	142.4
120°	315.3	316.4	310.6	297.8	285.1	272.3	259.5
122.5°	334.0	334.7	333.8	331.3	328.8	326.4	323.8
125°	361.5	362.2	362.6	363.0	363.2	363.5	363.8
127.5°	387.3	388.2	388.7	388.8	388.9	388.9	389.0
130°	403.5	404.6	405.0	404.9	404.8	404.7	404.6
132.5°	419.1	420.0	420.3	420.2	420.1	420.0	420.0
135°	441.5	442.5	442.9	442.6	442.5	442.3	442.1
137.5°	462.3	463.3	463.5	463.2	462.8	462.6	462.3
140°	475.6	476.5	476.7	476.2	475.8	475.3	474.8
142.5°	488.0	488.9	489.0	488.5	488.0	487.5	487.1
145°	505.3	506.0	506.1	505.6	505.2	504.7	504.2
147.5°	520.3	520.8	520.8	520.5	520.1	519.7	519.3
150°	529.7	530.3	530.4	529.9	529.4	528.9	528.5
152.5°	538.3	538.8	538.7	538.2	537.5	536.9	536.3
155°	549.8	550.3	550.2	549.4	548.7	548.0	547.1
157.5°	559.5	560.1	560.1	559.3	558.6	557.8	557.1
160°	565.0	565.6	565.6	564.9	564.3	563.5	562.9
162.5°	570.4	571.0	571.0	570.1	569.3	568.5	567.7
165°	576.8	577.5	577.5	576.8	576.2	575.5	574.8
167.5°	582.2	582.9	582.8	581.9	581.1	580.2	579.4
170°	584.9	585.5	585.5	584.6	583.8	582.9	582.0
172.5°	586.9	587.6	587.5	586.7	585.8	585.0	584.1
175°	589.1	589.8	589.7	588.7	587.7	586.9	585.9
177.5°	589.3	589.8	589.7	589.1	588.3	587.7	587.0
180°	588.0	588.0	588.0	588.0	588.0	588.0	588.0

(END OF REPORT)