

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: P332011

Luminaire Tested: **S123DIP-S1000D585U835-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332011  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIP-S1000D585U835-4F0-1E-UDD-A4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 585 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6361.2 lumens  
Efficiency: N/A  
Efficacy: 130.4 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Direct

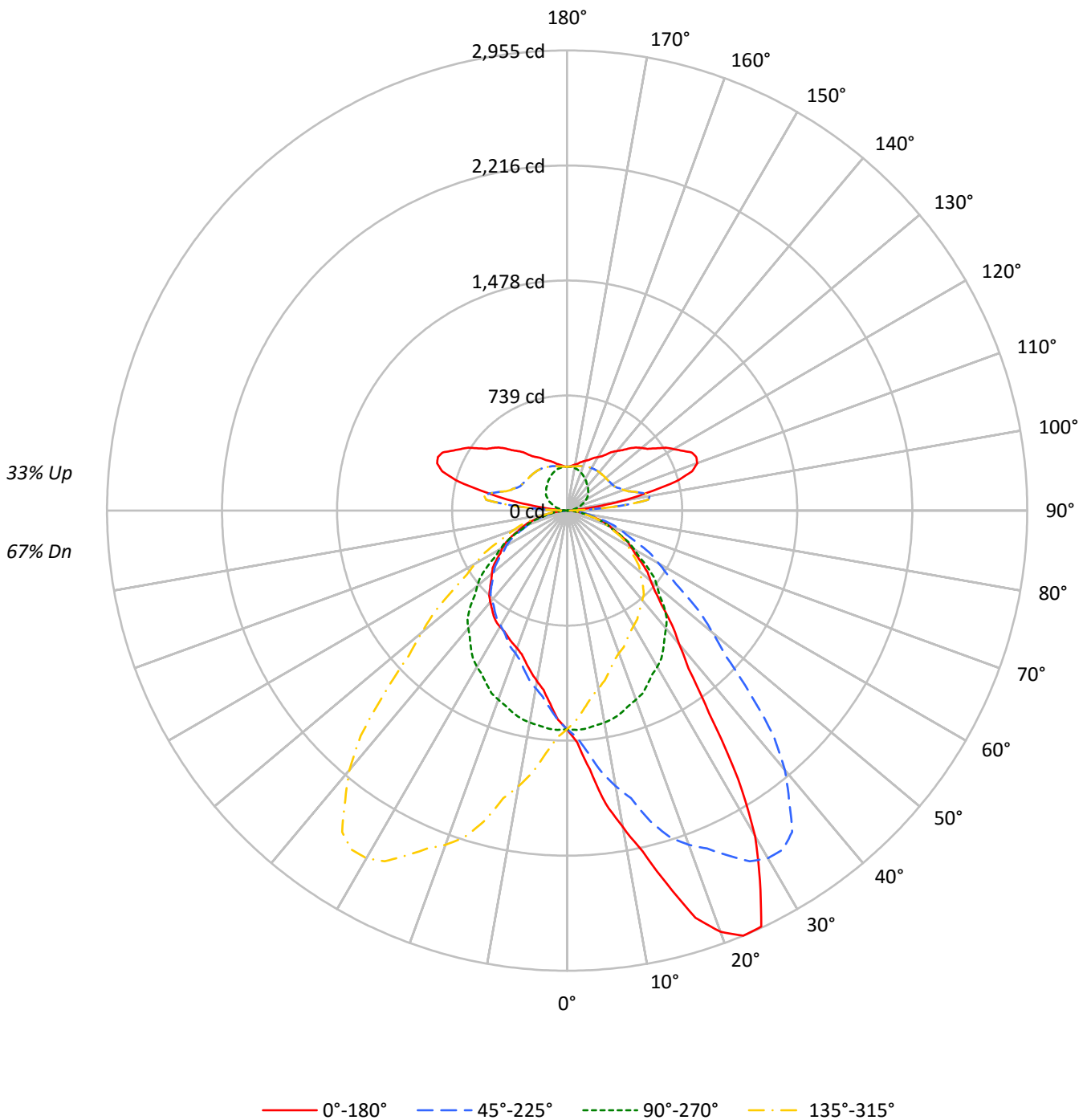
Input Watts (W): 48.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	71	71	71	67
1	102	98	94	90	96	92	89	86	82	79	77	72	71	69	64	62	61	57
2	93	86	80	74	87	81	76	71	72	68	64	64	61	58	57	54	52	48
3	85	76	68	62	80	72	65	60	64	59	54	57	53	49	50	47	45	41
4	78	67	59	53	73	64	56	51	57	51	47	51	46	43	45	42	39	36
5	72	60	52	46	67	57	50	44	51	45	41	46	41	37	41	37	34	31
6	66	54	46	40	62	51	44	38	46	40	36	42	37	33	37	33	30	27
7	61	49	41	35	58	47	39	34	42	36	31	38	33	29	34	30	27	24
8	57	45	37	31	54	42	35	30	38	32	28	35	30	26	31	27	24	22
9	53	41	33	28	50	39	32	27	35	29	25	32	27	23	29	25	22	20
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	27	23	20	18

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	15118	15118	15118	15118
5°	18029	15183	13456	15183
10°	22566	15106	12153	15106
15°	27679	14985	11314	14985
20°	32972	14795	10772	14795
25°	35011	14563	10652	14563
30°	30009	14395	10708	14395
35°	20871	14155	10820	14155
40°	15719	13874	10786	13874
45°	13052	13457	10648	13457
50°	11692	12603	10551	12603
55°	10931	11684	10421	11684
60°	10254	10723	10314	10723
65°	9638	9775	9984	9775
70°	9039	8696	9508	8696
75°	8093	7615	8717	7615
80°	7085	6242	7507	6242
85°	5545	4533	5039	4533



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.4	2.2
10°-20°	443.6	7.0
20°-30°	744.6	11.7
30°-40°	843.1	13.3
40°-50°	756.1	11.9
50°-60°	610.1	9.6
60°-70°	425.2	6.7
70°-80°	223.5	3.5
80°-90°	56.8	0.9
90°-100°	156.8	2.5
100°-110°	444.0	7.0
110°-120°	436.8	6.9
120°-130°	348.4	5.5
130°-140°	274.7	4.3
140°-150°	205.0	3.2
150°-160°	142.9	2.2
160°-170°	83.9	1.3
170°-180°	27.3	0.4
0°-30°	1326.6	20.9
0°-40°	2169.7	34.1
0°-60°	3535.9	55.6
0°-90°	4241.3	66.7
90°-120°	1037.6	16.3
90°-150°	1865.7	29.3
90°-180°	2120.0	33.3
0°-180°	6361.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1404	1404	1404	1404	1404	
5°	1669	1405	1245	1405	1669	173
15°	2484	1345	1015	1345	2484	717
25°	2948	1226	897	1226	2948	1293
35°	1588	1077	823	1077	1588	1032
45°	857	884	700	884	857	678
55°	582	623	555	623	582	523
65°	378	384	392	384	378	377
75°	195	183	210	183	195	208
85°	45	37	41	37	45	53
90°	16	1	16	1	16	11
95°	66	19	66	19	66	119
105°	726	66	726	66	726	716
115°	882	117	882	117	882	857
125°	696	163	696	163	696	631
135°	564	190	564	190	564	438
145°	441	217	441	217	441	280
155°	366	247	366	247	366	171
165°	319	270	319	270	319	91
175°	287	281	287	281	287	28
180°	282	282	282	282	282	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5
2.5°	1490.5	1489.5	1486.7	1488.9	1484.6	1478.6	1478.0	1472.6	1456.8	1455.7	1451.4
5°	1668.6	1663.1	1662.4	1661.8	1652.2	1639.3	1614.8	1612.8	1580.1	1563.8	1544.0
7.5°	1899.1	1902.0	1892.0	1883.3	1854.2	1835.0	1808.7	1775.1	1735.0	1694.3	1667.2
10°	2064.6	2087.1	2059.2	2040.1	2022.4	1989.1	1950.3	1902.0	1853.7	1797.2	1754.3
12.5°	2242.1	2253.1	2247.5	2229.6	2202.1	2151.3	2082.6	2029.4	1984.9	1890.8	1852.8
15°	2483.8	2525.3	2498.8	2437.5	2438.9	2390.6	2300.7	2202.1	2149.7	2067.3	1955.1
17.5°	2741.3	2746.5	2735.2	2684.1	2650.1	2583.7	2500.8	2406.2	2300.1	2200.4	2081.4
20°	2878.5	2874.4	2850.6	2824.0	2765.5	2713.8	2623.3	2517.8	2381.7	2283.7	2153.8
22.5°	2954.7	2947.9	2936.6	2914.4	2865.7	2810.2	2728.9	2613.6	2484.1	2349.1	2198.9
25°	2947.9	2956.7	2958.1	2952.0	2935.0	2901.6	2837.6	2745.8	2616.5	2443.0	2286.5
27.5°	2681.1	2693.7	2730.0	2762.3	2798.3	2835.1	2830.2	2784.6	2688.9	2539.0	2347.7
30°	2414.4	2387.2	2454.5	2539.6	2597.4	2699.5	2756.7	2760.1	2706.3	2577.7	2391.2
32.5°	2044.2	2074.1	2103.9	2208.6	2335.0	2449.6	2563.4	2655.0	2665.5	2579.9	2416.8
35°	1588.3	1625.7	1680.1	1734.6	1870.7	1987.7	2187.8	2362.0	2500.8	2519.2	2419.1
37.5°	1279.9	1298.4	1332.8	1387.4	1476.4	1615.2	1770.0	1990.2	2191.3	2340.9	2347.4
40°	1118.7	1124.2	1163.0	1204.5	1276.6	1390.9	1530.4	1725.0	1965.9	2174.9	2262.0
42.5°	997.9	1009.8	1026.3	1066.2	1123.6	1209.6	1339.3	1500.2	1721.0	1961.4	2131.8
45°	857.4	871.0	881.2	907.8	948.6	1006.4	1097.0	1243.9	1412.0	1660.4	1889.7
47.5°	764.6	765.7	773.3	793.3	821.1	864.5	928.5	1022.9	1177.2	1378.7	1614.1
50°	698.2	709.1	711.8	727.4	749.2	781.2	834.3	914.6	1041.2	1218.1	1434.5
52.5°	651.4	654.6	662.3	673.6	692.6	717.5	763.5	826.4	925.7	1076.5	1275.5
55°	582.5	582.5	590.0	598.8	609.7	632.2	662.8	709.1	784.6	901.7	1066.3
57.5°	518.8	522.2	527.5	530.2	539.5	554.3	579.9	615.0	671.4	761.5	892.4
60°	476.3	482.5	481.8	487.2	495.4	507.0	528.7	557.3	607.7	679.8	790.1
62.5°	439.3	438.9	438.8	445.3	453.5	464.5	478.7	503.4	546.2	610.1	704.0
65°	378.4	377.0	381.8	385.8	388.6	396.7	407.6	429.4	458.0	505.6	578.4
67.5°	324.2	320.2	322.8	324.2	328.8	335.2	345.4	358.9	381.6	419.9	474.7
70°	287.2	283.8	283.1	284.4	288.5	293.3	300.8	313.7	334.8	365.4	405.6
72.5°	249.1	246.7	246.6	249.6	251.5	254.6	259.9	271.8	288.5	311.5	349.0
75°	194.6	194.6	194.6	195.3	197.3	200.1	204.1	210.3	223.2	239.5	264.7
77.5°	145.9	145.8	144.9	144.8	147.8	149.0	150.0	155.7	162.9	173.9	192.3
80°	114.3	110.9	112.3	114.3	115.7	116.4	118.4	119.8	125.9	132.0	144.9
82.5°	84.9	82.1	82.3	85.5	85.7	86.4	88.5	90.4	92.7	98.3	105.2
85°	44.9	44.9	45.6	45.6	46.3	45.6	47.6	48.3	48.3	51.7	55.8
87.5°	19.6	18.7	19.1	19.5	19.1	19.4	19.8	20.3	20.7	21.4	21.6
90°	16.5	17.1	16.5	16.0	16.5	15.4	14.8	14.3	13.7	14.3	12.5
92.5°	27.5	28.5	27.9	29.7	30.7	33.7	38.1	48.0	66.2	87.7	96.5
95°	66.2	68.4	72.4	77.6	88.4	108.9	139.2	205.3	274.3	338.2	301.2
97.5°	180.1	185.0	200.4	226.1	268.2	336.4	410.0	511.9	560.8	524.2	383.7
100°	357.6	357.1	379.3	420.9	478.5	559.5	626.3	672.5	652.5	540.1	365.0
102.5°	524.6	537.7	556.3	589.3	634.1	685.5	724.4	725.9	657.1	510.5	337.7
105°	725.5	728.4	746.6	768.3	794.5	809.4	798.5	741.5	622.3	458.6	304.0
107.5°	841.2	846.4	852.6	859.9	859.4	839.1	789.2	696.5	561.4	412.7	282.6
110°	888.6	889.8	890.9	886.4	870.4	830.5	758.6	653.6	523.0	386.7	274.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	898.2	898.0	893.7	879.5	850.3	799.0	718.4	611.2	489.7	369.4	269.8
115°	882.4	879.5	868.1	843.0	800.2	738.1	654.2	555.0	449.5	350.8	268.1
117.5°	831.9	828.1	811.6	782.9	738.3	675.2	599.9	514.2	425.2	339.8	269.1
120°	790.0	786.5	772.9	740.9	695.9	638.2	569.8	492.8	412.4	334.8	270.9
122.5°	750.7	746.4	731.3	702.6	662.5	609.0	545.6	475.9	401.9	331.6	274.1
125°	695.9	691.9	677.6	652.5	616.0	570.4	515.6	453.4	388.4	327.4	278.9
127.5°	650.7	647.0	634.1	612.7	580.2	538.7	489.3	433.8	376.6	325.3	284.4
130°	625.1	620.6	608.6	588.1	557.8	519.0	472.8	421.5	370.2	324.0	288.0
132.5°	600.0	596.8	586.2	565.7	537.3	500.3	457.3	410.1	364.2	323.5	290.8
135°	564.1	560.1	549.8	532.7	504.8	472.3	435.2	394.7	356.5	322.8	294.9
137.5°	526.1	523.5	514.8	497.5	474.0	445.8	413.9	380.7	349.8	321.6	297.6
140°	499.6	500.2	491.1	475.1	453.4	428.9	401.5	372.5	345.6	321.1	299.4
142.5°	475.0	475.6	467.4	453.2	434.7	413.4	389.7	364.7	342.0	320.2	300.8
145°	440.9	439.8	435.2	423.2	409.0	392.4	374.2	355.3	337.1	318.8	301.7
147.5°	412.8	412.4	408.0	399.9	389.1	377.4	362.6	347.7	332.3	316.7	301.7
150°	396.4	396.4	393.0	386.7	378.2	367.3	355.3	342.2	329.1	314.8	301.7
152.5°	382.7	382.7	380.7	374.8	368.1	359.1	348.5	337.2	325.5	312.6	300.4
155°	365.6	365.0	363.9	359.3	354.2	347.4	338.8	329.7	320.0	308.6	298.9
157.5°	350.0	350.1	349.2	345.8	341.3	336.0	329.3	321.7	313.8	305.0	296.9
160°	339.9	340.5	340.5	337.1	333.1	329.1	323.4	317.1	309.7	302.3	296.0
162.5°	330.8	331.4	331.4	328.4	325.8	322.3	317.0	311.7	305.6	299.6	294.2
165°	318.8	318.8	319.4	317.1	314.8	312.0	308.0	304.6	300.0	295.5	291.5
167.5°	307.4	307.4	308.0	306.4	305.4	303.3	301.0	298.4	294.7	291.3	288.7
170°	300.6	300.6	301.2	300.0	299.4	298.3	296.0	294.3	291.5	288.6	286.9
172.5°	294.2	294.7	295.7	294.5	294.4	293.7	291.9	290.7	288.3	286.3	285.5
175°	286.9	287.5	288.0	287.5	287.5	287.5	286.3	285.8	284.6	283.5	283.5
177.5°	282.7	282.7	283.6	283.1	283.6	283.6	283.1	282.7	282.2	281.8	282.2
180°	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5
2.5°	1448.1	1443.7	1439.4	1431.8	1425.2	1416.0	1413.2	1410.0	1400.2	1391.5	1384.9
5°	1536.5	1520.2	1496.4	1474.6	1456.9	1433.1	1419.5	1405.2	1384.8	1366.4	1351.5
7.5°	1629.1	1597.0	1560.0	1519.9	1482.7	1446.7	1417.7	1391.9	1363.3	1336.2	1315.1
10°	1702.6	1656.3	1604.6	1548.8	1501.2	1454.9	1416.1	1382.1	1345.3	1313.3	1286.8
12.5°	1786.4	1717.8	1646.5	1578.7	1522.4	1458.2	1411.2	1367.9	1326.3	1287.8	1258.0
15°	1885.6	1798.5	1714.2	1620.9	1535.2	1454.9	1399.1	1344.7	1296.3	1256.9	1218.8
17.5°	1976.0	1877.3	1766.1	1652.8	1549.3	1454.1	1376.0	1314.4	1254.0	1205.7	1167.7
20°	2027.2	1914.9	1789.0	1671.3	1557.0	1450.8	1365.1	1291.6	1226.2	1175.2	1132.3
22.5°	2071.3	1939.9	1809.7	1683.8	1556.4	1442.1	1344.9	1269.3	1198.5	1148.5	1102.9
25°	2117.0	1959.8	1829.2	1681.5	1539.3	1420.9	1312.0	1226.2	1155.5	1097.0	1050.0
27.5°	2156.2	1958.5	1803.4	1644.6	1512.3	1393.6	1277.4	1185.4	1110.3	1046.7	999.1
30°	2182.3	1961.2	1776.8	1619.6	1486.2	1363.7	1250.7	1158.2	1079.3	1014.6	969.7
32.5°	2198.7	1959.5	1752.3	1584.7	1444.8	1336.5	1221.9	1126.1	1045.0	981.4	938.1
35°	2208.2	1947.6	1710.1	1512.7	1378.0	1272.5	1176.6	1077.2	992.2	933.0	884.0
37.5°	2189.1	1922.4	1661.1	1443.3	1295.8	1191.9	1111.2	1026.6	945.2	880.0	837.8
40°	2159.2	1906.1	1623.0	1394.3	1239.2	1139.1	1070.4	987.4	907.1	845.2	805.7
42.5°	2102.0	1872.8	1581.1	1339.9	1180.4	1080.3	1017.1	947.7	871.7	813.6	774.1
45°	1962.5	1800.6	1518.2	1258.2	1093.5	990.1	934.3	884.0	815.2	758.7	724.7
47.5°	1769.0	1691.8	1427.3	1172.1	1002.9	903.4	845.4	804.9	754.7	709.1	676.4
50°	1634.5	1602.6	1365.7	1113.3	942.5	845.2	789.4	752.6	716.6	671.0	641.0
52.5°	1479.4	1499.1	1293.9	1052.3	881.0	785.3	732.8	703.6	670.8	633.4	607.3
55°	1261.0	1332.4	1169.8	950.0	789.4	698.2	648.5	622.6	603.6	575.7	553.2
57.5°	1056.4	1147.3	1035.6	844.5	699.4	620.7	573.1	544.9	532.7	518.1	500.4
60°	935.0	1024.8	939.8	773.7	639.0	564.1	521.9	498.1	485.9	475.7	460.7
62.5°	826.7	917.6	846.1	701.9	579.6	510.2	473.5	450.2	440.7	435.4	422.6
65°	677.8	756.0	708.4	590.0	494.7	433.5	400.1	383.8	375.0	372.9	364.7
67.5°	551.6	611.2	576.5	489.4	414.4	361.5	333.2	319.3	312.5	311.8	305.7
70°	468.9	524.7	498.1	419.2	354.5	313.0	288.5	276.3	272.2	271.5	268.1
72.5°	404.6	443.5	422.4	356.6	306.6	268.9	251.0	238.2	233.5	234.5	232.2
75°	299.4	328.7	316.4	270.8	230.7	206.2	191.2	183.1	179.0	181.0	178.3
77.5°	215.4	234.0	222.9	191.4	166.6	148.9	137.9	132.8	129.2	129.0	127.8
80°	162.6	173.5	167.4	148.3	127.9	113.0	104.1	100.7	98.7	98.0	97.3
82.5°	115.8	125.1	117.9	104.8	90.9	81.9	76.9	72.4	70.9	71.3	70.6
85°	58.5	61.9	59.2	51.0	45.6	41.5	38.8	36.7	35.4	36.1	34.7
87.5°	22.3	22.5	20.5	18.1	16.8	14.8	14.6	13.3	12.4	12.7	12.5
90°	10.8	9.1	7.4	6.3	5.1	3.4	2.3	1.1	2.3	3.4	5.1
92.5°	72.4	47.9	33.0	24.5	19.7	15.3	10.5	7.1	10.5	15.3	19.7
95°	207.6	122.6	74.1	51.9	37.1	27.4	21.1	19.4	21.1	27.4	37.1
97.5°	227.8	132.0	85.7	61.6	47.0	38.6	33.7	33.1	33.7	38.6	47.0
100°	215.0	130.6	90.7	68.4	54.8	46.8	42.8	42.2	42.8	46.8	54.8
102.5°	204.1	132.4	96.6	76.2	63.9	56.4	52.8	51.8	52.8	56.4	63.9
105°	196.2	137.5	106.7	89.0	78.1	71.3	67.9	66.2	67.9	71.3	78.1
107.5°	195.6	146.8	119.8	103.4	93.2	86.5	83.2	81.4	83.2	86.5	93.2
110°	197.9	154.6	128.9	112.9	103.2	97.0	94.1	92.4	94.1	97.0	103.2





TEST NUMBER: P332011

CATALOG NUMBER: S123DIP-S1000D585U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	202.5	162.3	138.5	123.0	113.3	107.0	104.2	102.4	104.2	107.0	113.3
115°	209.9	175.1	153.4	138.0	128.3	122.6	119.2	116.9	119.2	122.6	128.3
117.5°	219.7	188.7	167.2	153.0	142.1	136.9	134.0	131.4	134.0	136.9	142.1
120°	227.0	197.3	176.8	162.6	151.7	146.0	143.2	141.5	143.2	146.0	151.7
122.5°	233.9	206.5	186.4	171.2	160.8	154.7	151.8	150.1	151.8	154.7	160.8
125°	244.7	219.6	199.6	184.2	173.4	167.1	163.7	162.6	163.7	167.1	173.4
127.5°	253.6	231.0	211.7	196.3	184.3	178.0	173.7	172.0	173.7	178.0	184.3
130°	259.5	237.8	219.0	203.6	191.6	184.8	179.7	178.0	179.7	184.8	191.6
132.5°	265.0	243.8	225.4	210.5	198.5	190.3	184.7	182.5	184.7	190.3	198.5
135°	272.1	252.7	235.0	219.6	207.6	199.1	192.8	190.5	192.8	199.1	207.6
137.5°	277.3	258.8	241.8	227.6	215.7	206.6	200.4	198.0	200.4	206.6	215.7
140°	280.1	262.9	246.4	232.1	220.7	211.6	205.9	203.1	205.9	211.6	220.7
142.5°	282.8	266.1	250.1	236.7	225.3	217.1	210.9	208.5	210.9	217.1	225.3
145°	285.8	270.4	255.5	242.4	232.7	224.2	219.0	217.3	219.0	224.2	232.7
147.5°	287.6	273.8	260.2	249.0	239.7	232.3	227.2	226.2	227.2	232.3	239.7
150°	288.0	276.1	262.9	252.7	244.7	237.3	232.7	232.1	232.7	237.3	244.7
152.5°	289.0	277.4	266.1	256.3	249.3	242.8	238.2	238.1	238.2	242.8	249.3
155°	289.2	280.1	270.4	262.4	256.1	250.4	247.0	247.0	247.0	250.4	256.1
157.5°	289.8	281.5	273.8	267.6	262.3	257.2	254.5	254.0	254.5	257.2	262.3
160°	289.8	282.9	276.1	270.4	266.4	261.8	259.5	259.5	259.5	261.8	266.4
162.5°	289.3	283.4	277.4	272.6	269.1	265.5	263.6	263.6	263.6	265.5	269.1
165°	288.0	284.0	279.5	275.5	273.2	270.4	269.2	269.8	269.2	270.4	273.2
167.5°	287.1	283.9	280.6	278.1	276.5	274.3	273.8	274.5	273.8	274.3	276.5
170°	285.8	283.5	280.6	279.5	278.3	276.6	276.1	277.2	276.1	276.6	278.3
172.5°	285.3	283.5	281.1	280.4	279.7	278.5	278.3	279.0	278.3	278.5	279.7
175°	284.0	282.9	281.8	281.2	281.2	280.1	280.6	281.2	280.6	280.1	281.2
177.5°	283.1	282.2	281.8	281.8	281.8	281.3	281.8	282.2	281.8	281.3	281.8
180°	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8



TEST NUMBER: P332011

CATALOG NUMBER: S123DIP-S1000D585U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5
2.5°	1381.1	1377.3	1371.9	1363.7	1357.2	1346.8	1346.8	1348.5	1348.5	1347.9	1346.8
5°	1339.2	1329.0	1316.8	1302.5	1287.5	1272.5	1269.8	1264.4	1260.3	1257.5	1254.1
7.5°	1295.0	1276.9	1259.0	1239.0	1220.8	1205.7	1195.2	1186.5	1180.9	1174.9	1170.6
10°	1265.0	1242.6	1221.5	1200.4	1177.2	1158.9	1147.3	1139.1	1133.0	1127.6	1124.9
12.5°	1229.6	1203.9	1180.7	1160.6	1135.3	1116.4	1105.4	1101.6	1094.4	1082.9	1076.9
15°	1177.9	1154.1	1126.2	1095.6	1083.3	1060.2	1047.3	1041.2	1037.1	1028.2	1025.5
17.5°	1133.7	1102.5	1071.2	1048.4	1025.6	1006.9	999.6	992.0	986.6	979.4	977.2
20°	1098.3	1070.4	1041.8	1017.3	993.5	973.1	967.0	961.5	956.1	952.7	950.0
22.5°	1062.4	1034.5	1010.8	987.9	962.5	949.1	942.5	936.5	932.7	930.4	927.6
25°	1011.9	987.4	960.9	940.4	920.0	911.2	907.1	903.7	901.0	897.6	896.9
27.5°	966.7	940.0	918.5	899.5	884.8	877.4	873.5	871.8	872.4	873.6	874.4
30°	933.0	908.5	890.8	874.4	860.8	854.0	853.3	853.3	856.1	856.7	858.1
32.5°	901.9	881.8	864.1	848.3	838.0	833.3	835.9	835.9	838.1	839.9	842.3
35°	856.7	839.0	825.4	811.8	803.0	805.0	806.4	807.7	811.1	815.2	818.0
37.5°	813.6	798.2	784.1	773.4	769.4	773.0	776.3	779.2	783.1	786.2	789.0
40°	782.6	771.0	757.4	747.9	749.2	751.3	754.0	757.4	760.8	762.8	765.6
42.5°	753.7	741.6	731.3	723.4	725.3	727.9	729.5	731.3	735.2	738.9	740.5
45°	709.8	700.2	690.7	685.9	687.3	688.7	690.0	692.1	695.5	698.2	698.9
47.5°	660.3	653.7	647.3	642.7	644.8	644.3	646.1	650.4	651.5	653.1	656.9
50°	628.8	622.6	615.2	613.8	613.8	613.8	614.5	619.9	619.9	622.6	625.4
52.5°	593.9	590.0	585.2	582.8	581.7	581.7	584.5	587.3	588.4	592.2	594.9
55°	542.4	538.3	534.2	532.1	530.8	532.1	537.6	538.9	542.4	544.4	546.4
57.5°	488.6	485.5	482.2	481.1	480.8	482.6	485.6	489.7	490.5	496.8	499.9
60°	453.2	448.4	445.7	445.7	444.4	450.5	449.1	455.9	457.3	461.4	466.1
62.5°	416.7	410.3	409.2	409.2	411.2	412.9	414.8	417.8	421.4	426.5	430.2
65°	357.9	354.5	359.3	358.6	357.3	361.3	361.3	364.7	368.8	373.6	381.1
67.5°	302.3	300.5	300.9	300.9	303.0	305.3	307.2	310.2	315.1	320.1	325.0
70°	264.7	266.8	263.4	266.1	268.1	268.8	270.2	274.2	279.7	283.1	288.5
72.5°	228.2	228.1	228.5	229.6	231.6	232.9	234.2	238.9	244.8	247.7	252.1
75°	175.6	174.9	176.9	176.9	180.3	181.7	183.1	185.1	190.5	194.6	198.0
77.5°	128.2	129.0	128.6	130.9	130.0	130.2	134.5	136.5	137.1	145.1	146.9
80°	96.6	98.0	98.7	99.4	100.0	98.7	103.4	105.5	105.5	110.2	113.6
82.5°	69.4	70.2	72.0	72.7	72.8	74.2	74.6	76.1	77.7	79.8	84.2
85°	34.7	36.7	37.4	36.7	37.4	36.1	38.1	38.8	39.5	39.5	39.5
87.5°	12.1	12.9	12.7	13.6	13.4	14.3	14.2	13.2	13.3	15.1	13.1
90°	6.3	7.4	9.1	10.8	12.5	14.3	13.7	14.3	14.8	15.4	16.5
92.5°	24.5	33.0	47.9	72.4	96.5	87.7	66.2	48.0	38.1	33.7	30.7
95°	51.9	74.1	122.6	207.6	301.2	338.2	274.3	205.3	139.2	108.9	88.4
97.5°	61.6	85.7	132.0	227.8	383.7	524.2	560.8	511.9	410.0	336.4	268.2
100°	68.4	90.7	130.6	215.0	365.0	540.1	652.5	672.5	626.3	559.5	478.5
102.5°	76.2	96.6	132.4	204.1	337.7	510.5	657.1	725.9	724.4	685.5	634.1
105°	89.0	106.7	137.5	196.2	304.0	458.6	622.3	741.5	798.5	809.4	794.5
107.5°	103.4	119.8	146.8	195.6	282.6	412.7	561.4	696.5	789.2	839.1	859.4
110°	112.9	128.9	154.6	197.9	274.3	386.7	523.0	653.6	758.6	830.5	870.4



TEST NUMBER: P332011

CATALOG NUMBER: S123DIP-S1000D585U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	123.0	138.5	162.3	202.5	269.8	369.4	489.7	611.2	718.4	799.0	850.3
115°	138.0	153.4	175.1	209.9	268.1	350.8	449.5	555.0	654.2	738.1	800.2
117.5°	153.0	167.2	188.7	219.7	269.1	339.8	425.2	514.2	599.9	675.2	738.3
120°	162.6	176.8	197.3	227.0	270.9	334.8	412.4	492.8	569.8	638.2	695.9
122.5°	171.2	186.4	206.5	233.9	274.1	331.6	401.9	475.9	545.6	609.0	662.5
125°	184.2	199.6	219.6	244.7	278.9	327.4	388.4	453.4	515.6	570.4	616.0
127.5°	196.3	211.7	231.0	253.6	284.4	325.3	376.6	433.8	489.3	538.7	580.2
130°	203.6	219.0	237.8	259.5	288.0	324.0	370.2	421.5	472.8	519.0	557.8
132.5°	210.5	225.4	243.8	265.0	290.8	323.5	364.2	410.1	457.3	500.3	537.3
135°	219.6	235.0	252.7	272.1	294.9	322.8	356.5	394.7	435.2	472.3	504.8
137.5°	227.6	241.8	258.8	277.3	297.6	321.6	349.8	380.7	413.9	445.8	474.0
140°	232.1	246.4	262.9	280.1	299.4	321.1	345.6	372.5	401.5	428.9	453.4
142.5°	236.7	250.1	266.1	282.8	300.8	320.2	342.0	364.7	389.7	413.4	434.7
145°	242.4	255.5	270.4	285.8	301.7	318.8	337.1	355.3	374.2	392.4	409.0
147.5°	249.0	260.2	273.8	287.6	301.7	316.7	332.3	347.7	362.6	377.4	389.1
150°	252.7	262.9	276.1	288.0	301.7	314.8	329.1	342.2	355.3	367.3	378.2
152.5°	256.3	266.1	277.4	289.0	300.4	312.6	325.5	337.2	348.5	359.1	368.1
155°	262.4	270.4	280.1	289.2	298.9	308.6	320.0	329.7	338.8	347.4	354.2
157.5°	267.6	273.8	281.5	289.8	296.9	305.0	313.8	321.7	329.3	336.0	341.3
160°	270.4	276.1	282.9	289.8	296.0	302.3	309.7	317.1	323.4	329.1	333.1
162.5°	272.6	277.4	283.4	289.3	294.2	299.6	305.6	311.7	317.0	322.3	325.8
165°	275.5	279.5	284.0	288.0	291.5	295.5	300.0	304.6	308.0	312.0	314.8
167.5°	278.1	280.6	283.9	287.1	288.7	291.3	294.7	298.4	301.0	303.3	305.4
170°	279.5	280.6	283.5	285.8	286.9	288.6	291.5	294.3	296.0	298.3	299.4
172.5°	280.4	281.1	283.5	285.3	285.5	286.3	288.3	290.7	291.9	293.7	294.4
175°	281.2	281.8	282.9	284.0	283.5	283.5	284.6	285.8	286.3	287.5	287.5
177.5°	281.8	281.8	282.2	283.1	282.2	281.8	282.2	282.7	283.1	283.6	283.6
180°	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8



TEST NUMBER: P332011

CATALOG NUMBER: S123DIP-S1000D585U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5
2.5°	1343.0	1342.5	1346.3	1343.6	1346.3	1342.5	1343.0	1346.8	1347.9	1348.5	1348.5
5°	1250.1	1252.1	1245.3	1245.3	1245.3	1252.1	1250.1	1254.1	1257.5	1260.3	1264.4
7.5°	1167.3	1164.3	1164.6	1160.9	1164.6	1164.3	1167.3	1170.6	1174.9	1180.9	1186.5
10°	1116.7	1112.6	1111.2	1111.9	1111.2	1112.6	1116.7	1124.9	1127.6	1133.0	1139.1
12.5°	1074.8	1074.0	1065.0	1065.1	1065.0	1074.0	1074.8	1076.9	1082.9	1094.4	1101.6
15°	1025.5	1012.6	1011.2	1015.3	1011.2	1012.6	1025.5	1025.5	1028.2	1037.1	1041.2
17.5°	976.1	969.3	969.7	967.7	969.7	969.3	976.1	977.2	979.4	986.6	992.0
20°	950.0	945.9	945.2	940.4	945.2	945.9	950.0	950.0	952.7	956.1	961.5
22.5°	926.0	924.7	925.1	919.8	925.1	924.7	926.0	927.6	930.4	932.7	936.5
25°	896.2	899.6	896.9	896.9	896.9	899.6	896.2	896.9	897.6	901.0	903.7
27.5°	876.1	875.9	874.6	874.6	874.6	875.9	876.1	874.4	873.6	872.4	871.8
30°	860.8	860.1	861.5	861.5	861.5	860.1	860.8	858.1	856.7	856.1	853.3
32.5°	845.6	846.5	846.8	847.3	846.8	846.5	845.6	842.3	839.9	838.1	835.9
35°	822.0	822.7	824.8	823.4	824.8	822.7	822.0	818.0	815.2	811.1	807.7
37.5°	790.2	793.3	792.6	793.7	792.6	793.3	790.2	789.0	786.2	783.1	779.2
40°	766.2	768.3	767.6	767.6	767.6	768.3	766.2	765.6	762.8	760.8	757.4
42.5°	741.7	743.2	741.5	740.4	741.5	743.2	741.7	740.5	738.9	735.2	731.3
45°	701.6	700.2	702.3	699.5	702.3	700.2	701.6	698.9	698.2	695.5	692.1
47.5°	656.7	658.0	658.6	660.6	658.6	658.0	656.7	656.9	653.1	651.5	650.4
50°	626.7	630.8	630.8	630.1	630.8	630.8	626.7	625.4	622.6	619.9	619.9
52.5°	597.3	599.2	602.0	601.8	602.0	599.2	597.3	594.9	592.2	588.4	587.3
55°	551.9	553.2	554.6	555.3	554.6	553.2	551.9	546.4	544.4	542.4	538.9
57.5°	504.8	504.2	507.5	508.5	507.5	504.2	504.8	499.9	496.8	490.5	489.7
60°	471.6	471.6	477.0	479.1	477.0	471.6	471.6	466.1	461.4	457.3	455.9
62.5°	436.2	438.4	443.8	441.0	443.8	438.4	436.2	430.2	426.5	421.4	417.8
65°	384.5	389.9	389.2	392.0	389.2	389.9	384.5	381.1	373.6	368.8	364.7
67.5°	330.4	333.8	338.7	339.2	338.7	333.8	330.4	325.0	320.1	315.1	310.2
70°	294.0	297.4	300.1	302.1	300.1	297.4	294.0	288.5	283.1	279.7	274.2
72.5°	258.6	260.4	266.9	264.0	266.9	260.4	258.6	252.1	247.7	244.8	238.9
75°	202.8	207.5	211.6	209.6	211.6	207.5	202.8	198.0	194.6	190.5	185.1
77.5°	150.0	154.7	156.6	154.9	156.6	154.7	150.0	146.9	145.1	137.1	136.5
80°	118.4	117.7	121.8	121.1	121.8	117.7	118.4	113.6	110.2	105.5	105.5
82.5°	86.8	86.2	88.1	88.5	88.1	86.2	86.8	84.2	79.8	77.7	76.1
85°	42.2	44.2	41.5	40.8	41.5	44.2	42.2	39.5	39.5	39.5	38.8
87.5°	13.0	13.1	12.7	12.0	12.7	13.1	13.0	13.1	15.1	13.3	13.2
90°	16.0	16.5	17.1	16.5	17.1	16.5	16.0	16.5	15.4	14.8	14.3
92.5°	29.7	27.9	28.5	27.5	28.5	27.9	29.7	30.7	33.7	38.1	48.0
95°	77.6	72.4	68.4	66.2	68.4	72.4	77.6	88.4	108.9	139.2	205.3
97.5°	226.1	200.4	185.0	180.1	185.0	200.4	226.1	268.2	336.4	410.0	511.9
100°	420.9	379.3	357.1	357.6	357.1	379.3	420.9	478.5	559.5	626.3	672.5
102.5°	589.3	556.3	537.7	524.6	537.7	556.3	589.3	634.1	685.5	724.4	725.9
105°	768.3	746.6	728.4	725.5	728.4	746.6	768.3	794.5	809.4	798.5	741.5
107.5°	859.9	852.6	846.4	841.2	846.4	852.6	859.9	859.4	839.1	789.2	696.5
110°	886.4	890.9	889.8	888.6	889.8	890.9	886.4	870.4	830.5	758.6	653.6



TEST NUMBER: P332011

CATALOG NUMBER: S123DIP-S1000D585U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	879.5	893.7	898.0	898.2	898.0	893.7	879.5	850.3	799.0	718.4	611.2
115°	843.0	868.1	879.5	882.4	879.5	868.1	843.0	800.2	738.1	654.2	555.0
117.5°	782.9	811.6	828.1	831.9	828.1	811.6	782.9	738.3	675.2	599.9	514.2
120°	740.9	772.9	786.5	790.0	786.5	772.9	740.9	695.9	638.2	569.8	492.8
122.5°	702.6	731.3	746.4	750.7	746.4	731.3	702.6	662.5	609.0	545.6	475.9
125°	652.5	677.6	691.9	695.9	691.9	677.6	652.5	616.0	570.4	515.6	453.4
127.5°	612.7	634.1	647.0	650.7	647.0	634.1	612.7	580.2	538.7	489.3	433.8
130°	588.1	608.6	620.6	625.1	620.6	608.6	588.1	557.8	519.0	472.8	421.5
132.5°	565.7	586.2	596.8	600.0	596.8	586.2	565.7	537.3	500.3	457.3	410.1
135°	532.7	549.8	560.1	564.1	560.1	549.8	532.7	504.8	472.3	435.2	394.7
137.5°	497.5	514.8	523.5	526.1	523.5	514.8	497.5	474.0	445.8	413.9	380.7
140°	475.1	491.1	500.2	499.6	500.2	491.1	475.1	453.4	428.9	401.5	372.5
142.5°	453.2	467.4	475.6	475.0	475.6	467.4	453.2	434.7	413.4	389.7	364.7
145°	423.2	435.2	439.8	440.9	439.8	435.2	423.2	409.0	392.4	374.2	355.3
147.5°	399.9	408.0	412.4	412.8	412.4	408.0	399.9	389.1	377.4	362.6	347.7
150°	386.7	393.0	396.4	396.4	396.4	393.0	386.7	378.2	367.3	355.3	342.2
152.5°	374.8	380.7	382.7	382.7	382.7	380.7	374.8	368.1	359.1	348.5	337.2
155°	359.3	363.9	365.0	365.6	365.0	363.9	359.3	354.2	347.4	338.8	329.7
157.5°	345.8	349.2	350.1	350.0	350.1	349.2	345.8	341.3	336.0	329.3	321.7
160°	337.1	340.5	340.5	339.9	340.5	340.5	337.1	333.1	329.1	323.4	317.1
162.5°	328.4	331.4	331.4	330.8	331.4	331.4	328.4	325.8	322.3	317.0	311.7
165°	317.1	319.4	318.8	318.8	318.8	319.4	317.1	314.8	312.0	308.0	304.6
167.5°	306.4	308.0	307.4	307.4	307.4	308.0	306.4	305.4	303.3	301.0	298.4
170°	300.0	301.2	300.6	300.6	300.6	301.2	300.0	299.4	298.3	296.0	294.3
172.5°	294.5	295.7	294.7	294.2	294.7	295.7	294.5	294.4	293.7	291.9	290.7
175°	287.5	288.0	287.5	286.9	287.5	288.0	287.5	287.5	287.5	286.3	285.8
177.5°	283.1	283.6	282.7	282.7	282.7	283.6	283.1	283.6	283.6	283.1	282.7
180°	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8



TEST NUMBER: P332011

CATALOG NUMBER: S123DIP-S1000D585U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5
2.5°	1346.8	1346.8	1357.2	1363.7	1371.9	1377.3	1381.1	1384.9	1391.5	1400.2	1410.0
5°	1269.8	1272.5	1287.5	1302.5	1316.8	1329.0	1339.2	1351.5	1366.4	1384.8	1405.2
7.5°	1195.2	1205.7	1220.8	1239.0	1259.0	1276.9	1295.0	1315.1	1336.2	1363.3	1391.9
10°	1147.3	1158.9	1177.2	1200.4	1221.5	1242.6	1265.0	1286.8	1313.3	1345.3	1382.1
12.5°	1105.4	1116.4	1135.3	1160.6	1180.7	1203.9	1229.6	1258.0	1287.8	1326.3	1367.9
15°	1047.3	1060.2	1083.3	1095.6	1126.2	1154.1	1177.9	1218.8	1256.9	1296.3	1344.7
17.5°	999.6	1006.9	1025.6	1048.4	1071.2	1102.5	1133.7	1167.7	1205.7	1254.0	1314.4
20°	967.0	973.1	993.5	1017.3	1041.8	1070.4	1098.3	1132.3	1175.2	1226.2	1291.6
22.5°	942.5	949.1	962.5	987.9	1010.8	1034.5	1062.4	1102.9	1148.5	1198.5	1269.3
25°	907.1	911.2	920.0	940.4	960.9	987.4	1011.9	1050.0	1097.0	1155.5	1226.2
27.5°	873.5	877.4	884.8	899.5	918.5	940.0	966.7	999.1	1046.7	1110.3	1185.4
30°	853.3	854.0	860.8	874.4	890.8	908.5	933.0	969.7	1014.6	1079.3	1158.2
32.5°	835.9	833.3	838.0	848.3	864.1	881.8	901.9	938.1	981.4	1045.0	1126.1
35°	806.4	805.0	803.0	811.8	825.4	839.0	856.7	884.0	933.0	992.2	1077.2
37.5°	776.3	773.0	769.4	773.4	784.1	798.2	813.6	837.8	880.0	945.2	1026.6
40°	754.0	751.3	749.2	747.9	757.4	771.0	782.6	805.7	845.2	907.1	987.4
42.5°	729.5	727.9	725.3	723.4	731.3	741.6	753.7	774.1	813.6	871.7	947.7
45°	690.0	688.7	687.3	685.9	690.7	700.2	709.8	724.7	758.7	815.2	884.0
47.5°	646.1	644.3	644.8	642.7	647.3	653.7	660.3	676.4	709.1	754.7	804.9
50°	614.5	613.8	613.8	613.8	615.2	622.6	628.8	641.0	671.0	716.6	752.6
52.5°	584.5	581.7	581.7	582.8	585.2	590.0	593.9	607.3	633.4	670.8	703.6
55°	537.6	532.1	530.8	532.1	534.2	538.3	542.4	553.2	575.7	603.6	622.6
57.5°	485.6	482.6	480.8	481.1	482.2	485.5	488.6	500.4	518.1	532.7	544.9
60°	449.1	450.5	444.4	445.7	445.7	448.4	453.2	460.7	475.7	485.9	498.1
62.5°	414.8	412.9	411.2	409.2	409.2	410.3	416.7	422.6	435.4	440.7	450.2
65°	361.3	361.3	357.3	358.6	359.3	354.5	357.9	364.7	372.9	375.0	383.8
67.5°	307.2	305.3	303.0	300.9	300.9	300.5	302.3	305.7	311.8	312.5	319.3
70°	270.2	268.8	268.1	266.1	263.4	266.8	264.7	268.1	271.5	272.2	276.3
72.5°	234.2	232.9	231.6	229.6	228.5	228.1	228.2	232.2	234.5	233.5	238.2
75°	183.1	181.7	180.3	176.9	176.9	174.9	175.6	178.3	181.0	179.0	183.1
77.5°	134.5	130.2	130.0	130.9	128.6	129.0	128.2	127.8	129.0	129.2	132.8
80°	103.4	98.7	100.0	99.4	98.7	98.0	96.6	97.3	98.0	98.7	100.7
82.5°	74.6	74.2	72.8	72.7	72.0	70.2	69.4	70.6	71.3	70.9	72.4
85°	38.1	36.1	37.4	36.7	37.4	36.7	34.7	34.7	36.1	35.4	36.7
87.5°	14.2	14.3	13.4	13.6	12.7	12.9	12.1	12.5	12.7	12.4	13.3
90°	13.7	14.3	12.5	10.8	9.1	7.4	6.3	5.1	3.4	2.3	1.1
92.5°	66.2	87.7	96.5	72.4	47.9	33.0	24.5	19.7	15.3	10.5	7.1
95°	274.3	338.2	301.2	207.6	122.6	74.1	51.9	37.1	27.4	21.1	19.4
97.5°	560.8	524.2	383.7	227.8	132.0	85.7	61.6	47.0	38.6	33.7	33.1
100°	652.5	540.1	365.0	215.0	130.6	90.7	68.4	54.8	46.8	42.8	42.2
102.5°	657.1	510.5	337.7	204.1	132.4	96.6	76.2	63.9	56.4	52.8	51.8
105°	622.3	458.6	304.0	196.2	137.5	106.7	89.0	78.1	71.3	67.9	66.2
107.5°	561.4	412.7	282.6	195.6	146.8	119.8	103.4	93.2	86.5	83.2	81.4
110°	523.0	386.7	274.3	197.9	154.6	128.9	112.9	103.2	97.0	94.1	92.4



TEST NUMBER: P332011

CATALOG NUMBER: S123DIP-S1000D585U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	489.7	369.4	269.8	202.5	162.3	138.5	123.0	113.3	107.0	104.2	102.4
115°	449.5	350.8	268.1	209.9	175.1	153.4	138.0	128.3	122.6	119.2	116.9
117.5°	425.2	339.8	269.1	219.7	188.7	167.2	153.0	142.1	136.9	134.0	131.4
120°	412.4	334.8	270.9	227.0	197.3	176.8	162.6	151.7	146.0	143.2	141.5
122.5°	401.9	331.6	274.1	233.9	206.5	186.4	171.2	160.8	154.7	151.8	150.1
125°	388.4	327.4	278.9	244.7	219.6	199.6	184.2	173.4	167.1	163.7	162.6
127.5°	376.6	325.3	284.4	253.6	231.0	211.7	196.3	184.3	178.0	173.7	172.0
130°	370.2	324.0	288.0	259.5	237.8	219.0	203.6	191.6	184.8	179.7	178.0
132.5°	364.2	323.5	290.8	265.0	243.8	225.4	210.5	198.5	190.3	184.7	182.5
135°	356.5	322.8	294.9	272.1	252.7	235.0	219.6	207.6	199.1	192.8	190.5
137.5°	349.8	321.6	297.6	277.3	258.8	241.8	227.6	215.7	206.6	200.4	198.0
140°	345.6	321.1	299.4	280.1	262.9	246.4	232.1	220.7	211.6	205.9	203.1
142.5°	342.0	320.2	300.8	282.8	266.1	250.1	236.7	225.3	217.1	210.9	208.5
145°	337.1	318.8	301.7	285.8	270.4	255.5	242.4	232.7	224.2	219.0	217.3
147.5°	332.3	316.7	301.7	287.6	273.8	260.2	249.0	239.7	232.3	227.2	226.2
150°	329.1	314.8	301.7	288.0	276.1	262.9	252.7	244.7	237.3	232.7	232.1
152.5°	325.5	312.6	300.4	289.0	277.4	266.1	256.3	249.3	242.8	238.2	238.1
155°	320.0	308.6	298.9	289.2	280.1	270.4	262.4	256.1	250.4	247.0	247.0
157.5°	313.8	305.0	296.9	289.8	281.5	273.8	267.6	262.3	257.2	254.5	254.0
160°	309.7	302.3	296.0	289.8	282.9	276.1	270.4	266.4	261.8	259.5	259.5
162.5°	305.6	299.6	294.2	289.3	283.4	277.4	272.6	269.1	265.5	263.6	263.6
165°	300.0	295.5	291.5	288.0	284.0	279.5	275.5	273.2	270.4	269.2	269.8
167.5°	294.7	291.3	288.7	287.1	283.9	280.6	278.1	276.5	274.3	273.8	274.5
170°	291.5	288.6	286.9	285.8	283.5	280.6	279.5	278.3	276.6	276.1	277.2
172.5°	288.3	286.3	285.5	285.3	283.5	281.1	280.4	279.7	278.5	278.3	279.0
175°	284.6	283.5	283.5	284.0	282.9	281.8	281.2	281.2	280.1	280.6	281.2
177.5°	282.2	281.8	282.2	283.1	282.2	281.8	281.8	281.8	281.3	281.8	282.2
180°	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8



TEST NUMBER: P332011

CATALOG NUMBER: S123DIP-S1000D585U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5
2.5°	1413.2	1416.0	1425.2	1431.8	1439.4	1443.7	1448.1	1451.4	1455.7	1456.8	1472.6
5°	1419.5	1433.1	1456.9	1474.6	1496.4	1520.2	1536.5	1544.0	1563.8	1580.1	1612.8
7.5°	1417.7	1446.7	1482.7	1519.9	1560.0	1597.0	1629.1	1667.2	1694.3	1735.0	1775.1
10°	1416.1	1454.9	1501.2	1548.8	1604.6	1656.3	1702.6	1754.3	1797.2	1853.7	1902.0
12.5°	1411.2	1458.2	1522.4	1578.7	1646.5	1717.8	1786.4	1852.8	1890.8	1984.9	2029.4
15°	1399.1	1454.9	1535.2	1620.9	1714.2	1798.5	1885.6	1955.1	2067.3	2149.7	2202.1
17.5°	1376.0	1454.1	1549.3	1652.8	1766.1	1877.3	1976.0	2081.4	2200.4	2300.1	2406.2
20°	1365.1	1450.8	1557.0	1671.3	1789.0	1914.9	2027.2	2153.8	2283.7	2381.7	2517.8
22.5°	1344.9	1442.1	1556.4	1683.8	1809.7	1939.9	2071.3	2198.9	2349.1	2484.1	2613.6
25°	1312.0	1420.9	1539.3	1681.5	1829.2	1959.8	2117.0	2286.5	2443.0	2616.5	2745.8
27.5°	1277.4	1393.6	1512.3	1644.6	1803.4	1958.5	2156.2	2347.7	2539.0	2688.9	2784.6
30°	1250.7	1363.7	1486.2	1619.6	1776.8	1961.2	2182.3	2391.2	2577.7	2706.3	2760.1
32.5°	1221.9	1336.5	1444.8	1584.7	1752.3	1959.5	2198.7	2416.8	2579.9	2665.5	2655.0
35°	1176.6	1272.5	1378.0	1512.7	1710.1	1947.6	2208.2	2419.1	2519.2	2500.8	2362.0
37.5°	1111.2	1191.9	1295.8	1443.3	1661.1	1922.4	2189.1	2347.4	2340.9	2191.3	1990.2
40°	1070.4	1139.1	1239.2	1394.3	1623.0	1906.1	2159.2	2262.0	2174.9	1965.9	1725.0
42.5°	1017.1	1080.3	1180.4	1339.9	1581.1	1872.8	2102.0	2131.8	1961.4	1721.0	1500.2
45°	934.3	990.1	1093.5	1258.2	1518.2	1800.6	1962.5	1889.7	1660.4	1412.0	1243.9
47.5°	845.4	903.4	1002.9	1172.1	1427.3	1691.8	1769.0	1614.1	1378.7	1177.2	1022.9
50°	789.4	845.2	942.5	1113.3	1365.7	1602.6	1634.5	1434.5	1218.1	1041.2	914.6
52.5°	732.8	785.3	881.0	1052.3	1293.9	1499.1	1479.4	1275.5	1076.5	925.7	826.4
55°	648.5	698.2	789.4	950.0	1169.8	1332.4	1261.0	1066.3	901.7	784.6	709.1
57.5°	573.1	620.7	699.4	844.5	1035.6	1147.3	1056.4	892.4	761.5	671.4	615.0
60°	521.9	564.1	639.0	773.7	939.8	1024.8	935.0	790.1	679.8	607.7	557.3
62.5°	473.5	510.2	579.6	701.9	846.1	917.6	826.7	704.0	610.1	546.2	503.4
65°	400.1	433.5	494.7	590.0	708.4	756.0	677.8	578.4	505.6	458.0	429.4
67.5°	333.2	361.5	414.4	489.4	576.5	611.2	551.6	474.7	419.9	381.6	358.9
70°	288.5	313.0	354.5	419.2	498.1	524.7	468.9	405.6	365.4	334.8	313.7
72.5°	251.0	268.9	306.6	356.6	422.4	443.5	404.6	349.0	311.5	288.5	271.8
75°	191.2	206.2	230.7	270.8	316.4	328.7	299.4	264.7	239.5	223.2	210.3
77.5°	137.9	148.9	166.6	191.4	222.9	234.0	215.4	192.3	173.9	162.9	155.7
80°	104.1	113.0	127.9	148.3	167.4	173.5	162.6	144.9	132.0	125.9	119.8
82.5°	76.9	81.9	90.9	104.8	117.9	125.1	115.8	105.2	98.3	92.7	90.4
85°	38.8	41.5	45.6	51.0	59.2	61.9	58.5	55.8	51.7	48.3	48.3
87.5°	14.6	14.8	16.8	18.1	20.5	22.5	22.3	21.6	21.4	20.7	20.3
90°	2.3	3.4	5.1	6.3	7.4	9.1	10.8	12.5	14.3	13.7	14.3
92.5°	10.5	15.3	19.7	24.5	33.0	47.9	72.4	96.5	87.7	66.2	48.0
95°	21.1	27.4	37.1	51.9	74.1	122.6	207.6	301.2	338.2	274.3	205.3
97.5°	33.7	38.6	47.0	61.6	85.7	132.0	227.8	383.7	524.2	560.8	511.9
100°	42.8	46.8	54.8	68.4	90.7	130.6	215.0	365.0	540.1	652.5	672.5
102.5°	52.8	56.4	63.9	76.2	96.6	132.4	204.1	337.7	510.5	657.1	725.9
105°	67.9	71.3	78.1	89.0	106.7	137.5	196.2	304.0	458.6	622.3	741.5
107.5°	83.2	86.5	93.2	103.4	119.8	146.8	195.6	282.6	412.7	561.4	696.5
110°	94.1	97.0	103.2	112.9	128.9	154.6	197.9	274.3	386.7	523.0	653.6





TEST NUMBER: P332011

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	104.2	107.0	113.3	123.0	138.5	162.3	202.5	269.8	369.4	489.7	611.2
115°	119.2	122.6	128.3	138.0	153.4	175.1	209.9	268.1	350.8	449.5	555.0
117.5°	134.0	136.9	142.1	153.0	167.2	188.7	219.7	269.1	339.8	425.2	514.2
120°	143.2	146.0	151.7	162.6	176.8	197.3	227.0	270.9	334.8	412.4	492.8
122.5°	151.8	154.7	160.8	171.2	186.4	206.5	233.9	274.1	331.6	401.9	475.9
125°	163.7	167.1	173.4	184.2	199.6	219.6	244.7	278.9	327.4	388.4	453.4
127.5°	173.7	178.0	184.3	196.3	211.7	231.0	253.6	284.4	325.3	376.6	433.8
130°	179.7	184.8	191.6	203.6	219.0	237.8	259.5	288.0	324.0	370.2	421.5
132.5°	184.7	190.3	198.5	210.5	225.4	243.8	265.0	290.8	323.5	364.2	410.1
135°	192.8	199.1	207.6	219.6	235.0	252.7	272.1	294.9	322.8	356.5	394.7
137.5°	200.4	206.6	215.7	227.6	241.8	258.8	277.3	297.6	321.6	349.8	380.7
140°	205.9	211.6	220.7	232.1	246.4	262.9	280.1	299.4	321.1	345.6	372.5
142.5°	210.9	217.1	225.3	236.7	250.1	266.1	282.8	300.8	320.2	342.0	364.7
145°	219.0	224.2	232.7	242.4	255.5	270.4	285.8	301.7	318.8	337.1	355.3
147.5°	227.2	232.3	239.7	249.0	260.2	273.8	287.6	301.7	316.7	332.3	347.7
150°	232.7	237.3	244.7	252.7	262.9	276.1	288.0	301.7	314.8	329.1	342.2
152.5°	238.2	242.8	249.3	256.3	266.1	277.4	289.0	300.4	312.6	325.5	337.2
155°	247.0	250.4	256.1	262.4	270.4	280.1	289.2	298.9	308.6	320.0	329.7
157.5°	254.5	257.2	262.3	267.6	273.8	281.5	289.8	296.9	305.0	313.8	321.7
160°	259.5	261.8	266.4	270.4	276.1	282.9	289.8	296.0	302.3	309.7	317.1
162.5°	263.6	265.5	269.1	272.6	277.4	283.4	289.3	294.2	299.6	305.6	311.7
165°	269.2	270.4	273.2	275.5	279.5	284.0	288.0	291.5	295.5	300.0	304.6
167.5°	273.8	274.3	276.5	278.1	280.6	283.9	287.1	288.7	291.3	294.7	298.4
170°	276.1	276.6	278.3	279.5	280.6	283.5	285.8	286.9	288.6	291.5	294.3
172.5°	278.3	278.5	279.7	280.4	281.1	283.5	285.3	285.5	286.3	288.3	290.7
175°	280.6	280.1	281.2	281.2	281.8	282.9	284.0	283.5	283.5	284.6	285.8
177.5°	281.8	281.3	281.8	281.8	281.8	282.2	283.1	282.2	281.8	282.2	282.7
180°	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8



TEST NUMBER: P332011

CATALOG NUMBER: S123DIP-S1000D585U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5
2.5°	1478.0	1478.6	1484.6	1488.9	1486.7	1489.5	1490.5
5°	1614.8	1639.3	1652.2	1661.8	1662.4	1663.1	1668.6
7.5°	1808.7	1835.0	1854.2	1883.3	1892.0	1902.0	1899.1
10°	1950.3	1989.1	2022.4	2040.1	2059.2	2087.1	2064.6
12.5°	2082.6	2151.3	2202.1	2229.6	2247.5	2253.1	2242.1
15°	2300.7	2390.6	2438.9	2437.5	2498.8	2525.3	2483.8
17.5°	2500.8	2583.7	2650.1	2684.1	2735.2	2746.5	2741.3
20°	2623.3	2713.8	2765.5	2824.0	2850.6	2874.4	2878.5
22.5°	2728.9	2810.2	2865.7	2914.4	2936.6	2947.9	2954.7
25°	2837.6	2901.6	2935.0	2952.0	2958.1	2956.7	2947.9
27.5°	2830.2	2835.1	2798.3	2762.3	2730.0	2693.7	2681.1
30°	2756.7	2699.5	2597.4	2539.6	2454.5	2387.2	2414.4
32.5°	2563.4	2449.6	2335.0	2208.6	2103.9	2074.1	2044.2
35°	2187.8	1987.7	1870.7	1734.6	1680.1	1625.7	1588.3
37.5°	1770.0	1615.2	1476.4	1387.4	1332.8	1298.4	1279.9
40°	1530.4	1390.9	1276.6	1204.5	1163.0	1124.2	1118.7
42.5°	1339.3	1209.6	1123.6	1066.2	1026.3	1009.8	997.9
45°	1097.0	1006.4	948.6	907.8	881.2	871.0	857.4
47.5°	928.5	864.5	821.1	793.3	773.3	765.7	764.6
50°	834.3	781.2	749.2	727.4	711.8	709.1	698.2
52.5°	763.5	717.5	692.6	673.6	662.3	654.6	651.4
55°	662.8	632.2	609.7	598.8	590.0	582.5	582.5
57.5°	579.9	554.3	539.5	530.2	527.5	522.2	518.8
60°	528.7	507.0	495.4	487.2	481.8	482.5	476.3
62.5°	478.7	464.5	453.5	445.3	438.8	438.9	439.3
65°	407.6	396.7	388.6	385.8	381.8	377.0	378.4
67.5°	345.4	335.2	328.8	324.2	322.8	320.2	324.2
70°	300.8	293.3	288.5	284.4	283.1	283.8	287.2
72.5°	259.9	254.6	251.5	249.6	246.6	246.7	249.1
75°	204.1	200.1	197.3	195.3	194.6	194.6	194.6
77.5°	150.0	149.0	147.8	144.8	144.9	145.8	145.9
80°	118.4	116.4	115.7	114.3	112.3	110.9	114.3
82.5°	88.5	86.4	85.7	85.5	82.3	82.1	84.9
85°	47.6	45.6	46.3	45.6	45.6	44.9	44.9
87.5°	19.8	19.4	19.1	19.5	19.1	18.7	19.6
90°	14.8	15.4	16.5	16.0	16.5	17.1	16.5
92.5°	38.1	33.7	30.7	29.7	27.9	28.5	27.5
95°	139.2	108.9	88.4	77.6	72.4	68.4	66.2
97.5°	410.0	336.4	268.2	226.1	200.4	185.0	180.1
100°	626.3	559.5	478.5	420.9	379.3	357.1	357.6
102.5°	724.4	685.5	634.1	589.3	556.3	537.7	524.6
105°	798.5	809.4	794.5	768.3	746.6	728.4	725.5
107.5°	789.2	839.1	859.4	859.9	852.6	846.4	841.2
110°	758.6	830.5	870.4	886.4	890.9	889.8	888.6



TEST NUMBER: P332011

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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	718.4	799.0	850.3	879.5	893.7	898.0	898.2
115°	654.2	738.1	800.2	843.0	868.1	879.5	882.4
117.5°	599.9	675.2	738.3	782.9	811.6	828.1	831.9
120°	569.8	638.2	695.9	740.9	772.9	786.5	790.0
122.5°	545.6	609.0	662.5	702.6	731.3	746.4	750.7
125°	515.6	570.4	616.0	652.5	677.6	691.9	695.9
127.5°	489.3	538.7	580.2	612.7	634.1	647.0	650.7
130°	472.8	519.0	557.8	588.1	608.6	620.6	625.1
132.5°	457.3	500.3	537.3	565.7	586.2	596.8	600.0
135°	435.2	472.3	504.8	532.7	549.8	560.1	564.1
137.5°	413.9	445.8	474.0	497.5	514.8	523.5	526.1
140°	401.5	428.9	453.4	475.1	491.1	500.2	499.6
142.5°	389.7	413.4	434.7	453.2	467.4	475.6	475.0
145°	374.2	392.4	409.0	423.2	435.2	439.8	440.9
147.5°	362.6	377.4	389.1	399.9	408.0	412.4	412.8
150°	355.3	367.3	378.2	386.7	393.0	396.4	396.4
152.5°	348.5	359.1	368.1	374.8	380.7	382.7	382.7
155°	338.8	347.4	354.2	359.3	363.9	365.0	365.6
157.5°	329.3	336.0	341.3	345.8	349.2	350.1	350.0
160°	323.4	329.1	333.1	337.1	340.5	340.5	339.9
162.5°	317.0	322.3	325.8	328.4	331.4	331.4	330.8
165°	308.0	312.0	314.8	317.1	319.4	318.8	318.8
167.5°	301.0	303.3	305.4	306.4	308.0	307.4	307.4
170°	296.0	298.3	299.4	300.0	301.2	300.6	300.6
172.5°	291.9	293.7	294.4	294.5	295.7	294.7	294.2
175°	286.3	287.5	287.5	287.5	288.0	287.5	286.9
177.5°	283.1	283.6	283.6	283.1	283.6	282.7	282.7
180°	281.8	281.8	281.8	281.8	281.8	281.8	281.8

(END OF REPORT)