

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: P332181

Luminaire Tested: **S123DIW-S1000D460U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332181
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIW-S1000D460U835-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 460 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5839.2 lumens
Efficiency: N/A
Efficacy: 126.4 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

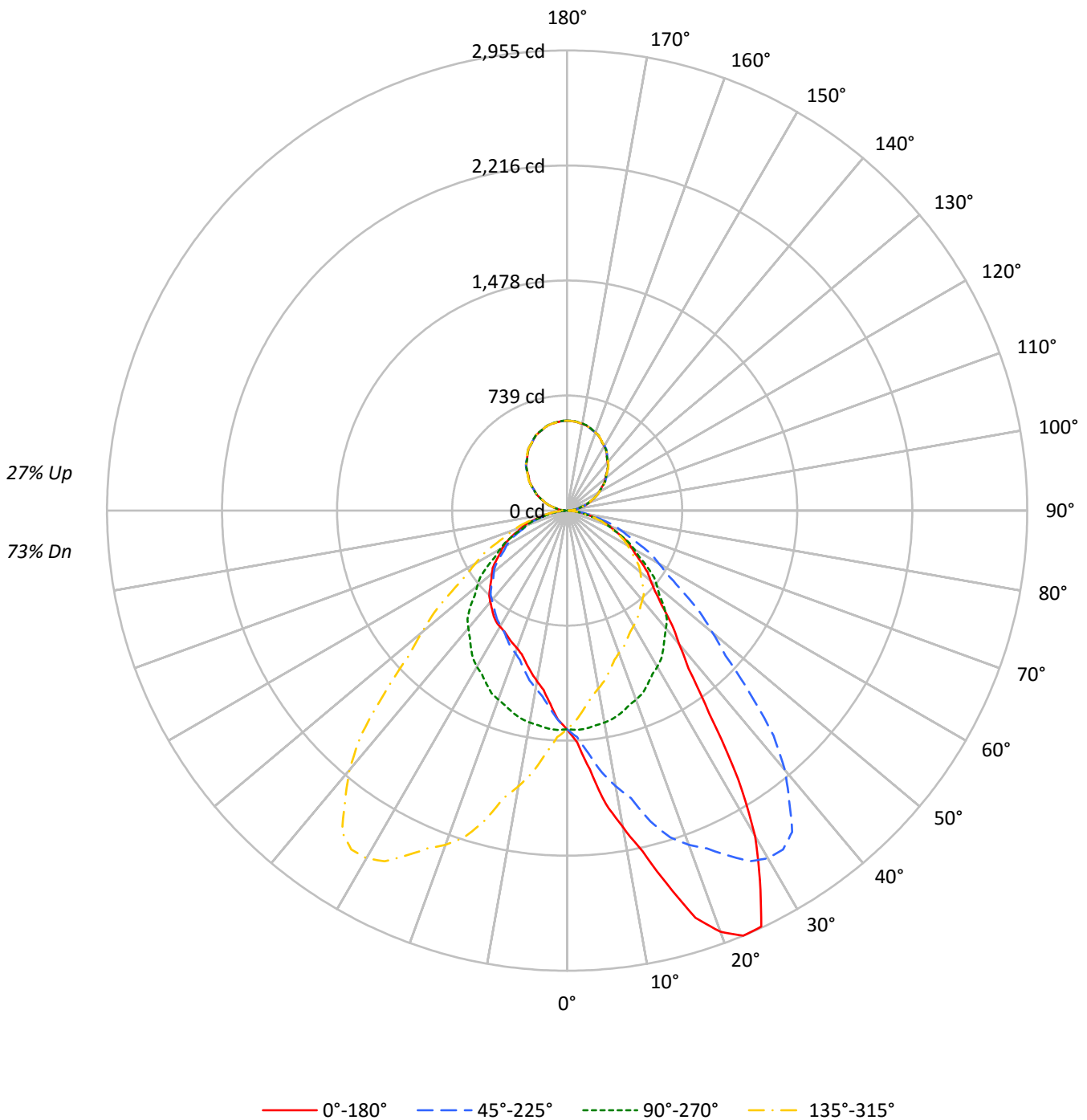
Input Watts (W): 46.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	96	96	96	86	86	86	77	77	77	73
1	103	99	95	92	98	94	91	88	85	82	80	76	74	73	69	67	66	62
2	94	87	81	75	89	83	77	72	75	70	67	68	64	61	61	58	56	53
3	86	77	69	63	82	73	66	61	66	61	57	60	56	52	54	51	48	45
4	79	68	60	54	75	65	58	52	59	53	49	54	49	45	49	45	42	39
5	73	61	53	47	69	58	51	45	53	47	42	48	43	39	44	40	37	34
6	67	55	47	41	64	53	45	39	48	42	37	44	39	35	40	36	32	30
7	62	50	42	36	59	48	40	35	44	37	33	40	35	31	37	32	29	26
8	58	45	37	32	55	44	36	31	40	34	29	37	31	28	34	29	26	24
9	54	42	34	29	51	40	33	28	37	31	26	34	29	25	31	27	23	21
10	51	38	31	26	48	37	30	25	34	28	24	31	26	23	29	24	21	19

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	2.4
10°-20°	443.6	7.6
20°-30°	744.6	12.8
30°-40°	843.1	14.4
40°-50°	756.1	12.9
50°-60°	610.1	10.4
60°-70°	425.2	7.3
70°-80°	223.5	3.8
80°-90°	56.4	1.0
90°-100°	37.6	0.6
100°-110°	112.5	1.9
110°-120°	191.3	3.3
120°-130°	251.7	4.3
130°-140°	282.9	4.8
140°-150°	278.0	4.8
150°-160°	234.1	4.0
160°-170°	155.8	2.7
170°-180°	54.6	0.9
0°-30°	1326.6	22.7
0°-40°	2169.7	37.2
0°-60°	3535.9	60.6
0°-90°	4240.9	72.6
90°-120°	341.4	5.8
90°-150°	1153.9	19.8
90°-180°	1598.0	27.4
0°-180°	5839.2	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°	14	0	14	0	14	9
95°	35	27	35	27	35	36
105°	108	102	108	102	108	114
115°	193	193	193	193	193	191
125°	279	282	279	282	279	249
135°	365	366	365	366	365	281
145°	444	444	444	444	444	277
155°	507	508	507	508	507	233
165°	552	553	552	553	552	156
175°	573	576	573	576	573	54
180°	577	577	577	577	577	



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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°	19.1	17.9	18.4	18.9	18.3	18.8	19.3	19.8	20.2	20.7	21.0
90°	13.6	13.4	13.2	13.0	12.8	12.5	12.1	11.7	11.3	10.9	9.6
92.5°	18.3	18.4	18.5	18.7	18.8	18.7	18.4	18.0	17.7	17.4	16.7
95°	35.3	35.3	35.3	35.3	35.3	35.1	34.7	34.3	33.9	33.5	32.7
97.5°	54.4	54.4	54.5	54.5	54.5	54.3	53.9	53.4	52.9	52.5	51.9
100°	68.9	68.7	68.5	68.3	68.1	67.8	67.5	67.2	66.9	66.6	66.1
102.5°	83.7	83.8	83.8	83.9	83.9	83.8	83.5	83.2	82.9	82.6	81.9
105°	107.9	107.7	107.5	107.3	107.0	106.9	106.9	106.9	106.9	106.9	106.0
107.5°	133.0	133.1	133.2	133.3	133.4	133.3	133.0	132.7	132.4	132.1	131.7
110°	150.0	150.2	150.4	150.6	150.8	150.7	150.3	149.9	149.5	149.1	148.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	168.1	168.2	168.2	168.2	168.3	168.1	167.6	167.1	166.6	166.1	166.1
115°	193.1	193.2	193.3	193.4	193.5	193.5	193.4	193.3	193.2	193.1	193.3
117.5°	218.3	218.6	218.9	219.2	219.5	219.6	219.6	219.7	219.7	219.7	220.0
120°	236.1	236.3	236.5	236.7	236.9	237.1	237.2	237.3	237.4	237.5	238.0
122.5°	253.1	253.4	253.7	254.0	254.3	254.5	254.8	255.1	255.3	255.6	255.9
125°	278.7	279.1	279.5	279.9	280.3	280.7	281.1	281.5	281.9	282.3	282.5
127.5°	304.2	304.6	305.1	305.6	306.0	306.5	307.1	307.7	308.2	308.8	309.0
130°	320.8	321.6	322.3	323.0	323.7	324.2	324.6	325.0	325.4	325.8	326.1
132.5°	338.2	338.8	339.3	339.9	340.4	340.9	341.4	341.9	342.4	342.9	343.1
135°	365.3	365.5	365.7	365.9	366.1	366.4	366.8	367.2	367.6	368.0	368.1
137.5°	389.1	389.5	389.9	390.2	390.6	391.0	391.5	391.9	392.3	392.7	392.5
140°	404.7	405.4	406.1	406.8	407.5	407.9	408.0	408.1	408.2	408.3	408.2
142.5°	420.6	421.2	421.7	422.3	422.8	423.1	423.2	423.3	423.4	423.5	423.4
145°	443.7	444.1	444.5	444.9	445.3	445.5	445.6	445.7	445.8	445.9	445.6
147.5°	464.1	464.7	465.3	466.0	466.6	466.9	466.9	466.9	466.9	466.9	466.6
150°	477.2	477.8	478.4	479.0	479.6	479.9	479.9	479.9	479.9	479.9	479.7
152.5°	489.9	490.4	490.9	491.5	492.0	492.2	492.0	491.8	491.7	491.5	491.4
155°	507.1	507.8	508.5	509.2	509.9	510.1	509.7	509.3	508.9	508.5	508.4
157.5°	522.8	523.3	523.9	524.5	525.0	525.1	524.7	524.3	523.8	523.4	523.3
160°	532.9	533.3	533.7	534.1	534.5	534.5	534.0	533.5	533.0	532.5	532.5
162.5°	540.5	541.2	541.8	542.5	543.1	543.2	542.7	542.2	541.7	541.2	541.1
165°	551.5	552.2	552.9	553.6	554.3	554.4	553.8	553.2	552.6	552.0	552.0
167.5°	560.8	561.5	562.1	562.7	563.3	563.3	562.7	562.1	561.5	560.8	560.8
170°	565.6	566.3	567.0	567.7	568.4	568.4	567.7	567.0	566.3	565.6	565.6
172.5°	569.2	569.9	570.6	571.3	572.0	572.0	571.4	570.8	570.2	569.5	569.5
175°	573.3	574.0	574.7	575.4	576.1	576.1	575.5	574.9	574.3	573.7	573.7
177.5°	575.4	576.0	576.6	577.1	577.7	577.7	577.3	576.8	576.3	575.8	575.8
180°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9



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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°	21.8	22.1	20.2	17.8	16.5	14.6	14.4	13.2	12.3	12.5	12.1
90°	8.3	6.9	5.6	4.5	3.5	2.5	1.5	0.5	1.5	2.5	3.5
92.5°	15.9	15.2	14.4	13.7	13.0	12.3	11.7	11.0	11.7	12.3	13.0
95°	31.9	31.1	30.3	29.6	28.9	28.1	27.4	26.7	27.4	28.1	28.9
97.5°	51.3	50.7	50.1	49.6	49.1	48.5	48.0	47.5	48.0	48.5	49.1
100°	65.6	65.1	64.6	64.0	63.4	62.8	62.2	61.6	62.2	62.8	63.4
102.5°	81.2	80.6	79.9	79.4	79.0	78.7	78.3	77.9	78.3	78.7	79.0
105°	105.1	104.2	103.3	102.8	102.6	102.4	102.2	102.0	102.2	102.4	102.6
107.5°	131.3	131.0	130.6	130.4	130.2	130.1	130.0	129.9	130.0	130.1	130.2
110°	148.7	148.5	148.3	148.1	147.9	147.7	147.5	147.3	147.5	147.7	147.9



TEST NUMBER: P332181

CATALOG NUMBER: S123DIW-S1000D460U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	166.1	166.0	166.0	165.9	165.8	165.7	165.5	165.4	165.5	165.7	165.8
115°	193.5	193.7	193.9	193.8	193.5	193.2	192.9	192.6	192.9	193.2	193.5
117.5°	220.2	220.5	220.7	220.8	220.6	220.4	220.2	220.0	220.2	220.4	220.6
120°	238.5	239.0	239.5	239.4	238.8	238.2	237.6	237.0	237.6	238.2	238.8
122.5°	256.1	256.4	256.6	256.5	256.1	255.7	255.2	254.8	255.2	255.7	256.1
125°	282.7	282.9	283.1	283.1	282.8	282.5	282.2	281.9	282.2	282.5	282.8
127.5°	309.2	309.5	309.7	309.5	308.8	308.2	307.5	306.9	307.5	308.2	308.8
130°	326.4	326.7	327.0	326.8	326.0	325.2	324.4	323.6	324.4	325.2	326.0
132.5°	343.3	343.5	343.8	343.5	342.7	341.9	341.0	340.2	341.0	341.9	342.7
135°	368.2	368.3	368.4	368.1	367.5	366.9	366.3	365.7	366.3	366.9	367.5
137.5°	392.2	391.9	391.7	391.3	390.8	390.3	389.8	389.3	389.8	390.3	390.8
140°	408.1	408.0	407.9	407.6	407.1	406.6	406.1	405.6	406.1	406.6	407.1
142.5°	423.2	423.0	422.8	422.5	422.0	421.5	421.0	420.5	421.0	421.5	422.0
145°	445.3	445.0	444.7	444.5	444.3	444.1	443.9	443.7	443.9	444.1	444.3
147.5°	466.3	466.0	465.7	465.4	465.0	464.7	464.3	464.0	464.3	464.7	465.0
150°	479.5	479.3	479.1	478.9	478.7	478.5	478.3	478.1	478.3	478.5	478.7
152.5°	491.3	491.1	491.0	490.8	490.5	490.3	490.0	489.7	490.0	490.3	490.5
155°	508.3	508.2	508.1	508.0	508.0	508.0	508.0	508.0	508.0	508.0	508.0
157.5°	523.3	523.2	523.1	523.1	523.2	523.4	523.5	523.6	523.5	523.4	523.2
160°	532.5	532.5	532.5	532.6	532.8	533.0	533.2	533.4	533.2	533.0	532.8
162.5°	541.0	540.9	540.9	541.0	541.2	541.5	541.8	542.1	541.8	541.5	541.2
165°	552.0	552.0	552.0	552.1	552.4	552.7	553.0	553.3	553.0	552.7	552.4
167.5°	560.7	560.6	560.5	560.7	561.1	561.5	561.9	562.3	561.9	561.5	561.1
170°	565.6	565.6	565.6	565.8	566.2	566.6	567.0	567.4	567.0	566.6	566.2
172.5°	569.5	569.5	569.5	569.7	570.2	570.6	571.0	571.4	571.0	570.6	570.2
175°	573.7	573.7	573.7	573.9	574.3	574.7	575.1	575.5	575.1	574.7	574.3
177.5°	575.8	575.8	575.8	576.0	576.3	576.6	576.9	577.3	576.9	576.6	576.3
180°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9



TEST NUMBER: P332181

CATALOG NUMBER: S123DIW-S1000D460U835-4F0-1E-UDD-A1

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°	11.8	12.6	12.3	13.1	12.8	13.6	13.7	12.7	12.8	14.5	12.4
90°	4.5	5.6	6.9	8.3	9.6	10.9	11.3	11.7	12.1	12.5	12.8
92.5°	13.7	14.4	15.2	15.9	16.7	17.4	17.7	18.0	18.4	18.7	18.8
95°	29.6	30.3	31.1	31.9	32.7	33.5	33.9	34.3	34.7	35.1	35.3
97.5°	49.6	50.1	50.7	51.3	51.9	52.5	52.9	53.4	53.9	54.3	54.5
100°	64.0	64.6	65.1	65.6	66.1	66.6	66.9	67.2	67.5	67.8	68.1
102.5°	79.4	79.9	80.6	81.2	81.9	82.6	82.9	83.2	83.5	83.8	83.9
105°	102.8	103.3	104.2	105.1	106.0	106.9	106.9	106.9	106.9	106.9	107.0
107.5°	130.4	130.6	131.0	131.3	131.7	132.1	132.4	132.7	133.0	133.3	133.4
110°	148.1	148.3	148.5	148.7	148.9	149.1	149.5	149.9	150.3	150.7	150.8



TEST NUMBER: P332181

CATALOG NUMBER: S123DIW-S1000D460U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	165.9	166.0	166.0	166.1	166.1	166.1	166.6	167.1	167.6	168.1	168.3
115°	193.8	193.9	193.7	193.5	193.3	193.1	193.2	193.3	193.4	193.5	193.5
117.5°	220.8	220.7	220.5	220.2	220.0	219.7	219.7	219.7	219.6	219.6	219.5
120°	239.4	239.5	239.0	238.5	238.0	237.5	237.4	237.3	237.2	237.1	236.9
122.5°	256.5	256.6	256.4	256.1	255.9	255.6	255.3	255.1	254.8	254.5	254.3
125°	283.1	283.1	282.9	282.7	282.5	282.3	281.9	281.5	281.1	280.7	280.3
127.5°	309.5	309.7	309.5	309.2	309.0	308.8	308.2	307.7	307.1	306.5	306.0
130°	326.8	327.0	326.7	326.4	326.1	325.8	325.4	325.0	324.6	324.2	323.7
132.5°	343.5	343.8	343.5	343.3	343.1	342.9	342.4	341.9	341.4	340.9	340.4
135°	368.1	368.4	368.3	368.2	368.1	368.0	367.6	367.2	366.8	366.4	366.1
137.5°	391.3	391.7	391.9	392.2	392.5	392.7	392.3	391.9	391.5	391.0	390.6
140°	407.6	407.9	408.0	408.1	408.2	408.3	408.2	408.1	408.0	407.9	407.5
142.5°	422.5	422.8	423.0	423.2	423.4	423.5	423.4	423.3	423.2	423.1	422.8
145°	444.5	444.7	445.0	445.3	445.6	445.9	445.8	445.7	445.6	445.5	445.3
147.5°	465.4	465.7	466.0	466.3	466.6	466.9	466.9	466.9	466.9	466.9	466.6
150°	478.9	479.1	479.3	479.5	479.7	479.9	479.9	479.9	479.9	479.9	479.6
152.5°	490.8	491.0	491.1	491.3	491.4	491.5	491.7	491.8	492.0	492.2	492.0
155°	508.0	508.1	508.2	508.3	508.4	508.5	508.9	509.3	509.7	510.1	509.9
157.5°	523.1	523.1	523.2	523.3	523.3	523.4	523.8	524.3	524.7	525.1	525.0
160°	532.6	532.5	532.5	532.5	532.5	532.5	533.0	533.5	534.0	534.5	534.5
162.5°	541.0	540.9	540.9	541.0	541.1	541.2	541.7	542.2	542.7	543.2	543.1
165°	552.1	552.0	552.0	552.0	552.0	552.0	552.6	553.2	553.8	554.4	554.3
167.5°	560.7	560.5	560.6	560.7	560.8	560.8	561.5	562.1	562.7	563.3	563.3
170°	565.8	565.6	565.6	565.6	565.6	565.6	566.3	567.0	567.7	568.4	568.4
172.5°	569.7	569.5	569.5	569.5	569.5	569.5	570.2	570.8	571.4	572.0	572.0
175°	573.9	573.7	573.7	573.7	573.7	573.7	574.3	574.9	575.5	576.1	576.1
177.5°	576.0	575.8	575.8	575.8	575.8	575.8	576.3	576.8	577.3	577.7	577.7
180°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9



TEST NUMBER: P332181

CATALOG NUMBER: S123DIW-S1000D460U835-4F0-1E-UDD-A1

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°	12.4	12.4	11.9	11.4	11.9	12.4	12.4	12.4	14.5	12.8	12.7
90°	13.0	13.2	13.4	13.6	13.4	13.2	13.0	12.8	12.5	12.1	11.7
92.5°	18.7	18.5	18.4	18.3	18.4	18.5	18.7	18.8	18.7	18.4	18.0
95°	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.1	34.7	34.3
97.5°	54.5	54.5	54.4	54.4	54.4	54.5	54.5	54.5	54.3	53.9	53.4
100°	68.3	68.5	68.7	68.9	68.7	68.5	68.3	68.1	67.8	67.5	67.2
102.5°	83.9	83.8	83.8	83.7	83.8	83.8	83.9	83.9	83.8	83.5	83.2
105°	107.3	107.5	107.7	107.9	107.7	107.5	107.3	107.0	106.9	106.9	106.9
107.5°	133.3	133.2	133.1	133.0	133.1	133.2	133.3	133.4	133.3	133.0	132.7
110°	150.6	150.4	150.2	150.0	150.2	150.4	150.6	150.8	150.7	150.3	149.9



TEST NUMBER: P332181

CATALOG NUMBER: S123DIW-S1000D460U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	168.2	168.2	168.2	168.1	168.2	168.2	168.2	168.3	168.1	167.6	167.1
115°	193.4	193.3	193.2	193.1	193.2	193.3	193.4	193.5	193.5	193.4	193.3
117.5°	219.2	218.9	218.6	218.3	218.6	218.9	219.2	219.5	219.6	219.6	219.7
120°	236.7	236.5	236.3	236.1	236.3	236.5	236.7	236.9	237.1	237.2	237.3
122.5°	254.0	253.7	253.4	253.1	253.4	253.7	254.0	254.3	254.5	254.8	255.1
125°	279.9	279.5	279.1	278.7	279.1	279.5	279.9	280.3	280.7	281.1	281.5
127.5°	305.6	305.1	304.6	304.2	304.6	305.1	305.6	306.0	306.5	307.1	307.7
130°	323.0	322.3	321.6	320.8	321.6	322.3	323.0	323.7	324.2	324.6	325.0
132.5°	339.9	339.3	338.8	338.2	338.8	339.3	339.9	340.4	340.9	341.4	341.9
135°	365.9	365.7	365.5	365.3	365.5	365.7	365.9	366.1	366.4	366.8	367.2
137.5°	390.2	389.9	389.5	389.1	389.5	389.9	390.2	390.6	391.0	391.5	391.9
140°	406.8	406.1	405.4	404.7	405.4	406.1	406.8	407.5	407.9	408.0	408.1
142.5°	422.3	421.7	421.2	420.6	421.2	421.7	422.3	422.8	423.1	423.2	423.3
145°	444.9	444.5	444.1	443.7	444.1	444.5	444.9	445.3	445.5	445.6	445.7
147.5°	466.0	465.3	464.7	464.1	464.7	465.3	466.0	466.6	466.9	466.9	466.9
150°	479.0	478.4	477.8	477.2	477.8	478.4	479.0	479.6	479.9	479.9	479.9
152.5°	491.5	490.9	490.4	489.9	490.4	490.9	491.5	492.0	492.2	492.0	491.8
155°	509.2	508.5	507.8	507.1	507.8	508.5	509.2	509.9	510.1	509.7	509.3
157.5°	524.5	523.9	523.3	522.8	523.3	523.9	524.5	525.0	525.1	524.7	524.3
160°	534.1	533.7	533.3	532.9	533.3	533.7	534.1	534.5	534.5	534.0	533.5
162.5°	542.5	541.8	541.2	540.5	541.2	541.8	542.5	543.1	543.2	542.7	542.2
165°	553.6	552.9	552.2	551.5	552.2	552.9	553.6	554.3	554.4	553.8	553.2
167.5°	562.7	562.1	561.5	560.8	561.5	562.1	562.7	563.3	563.3	562.7	562.1
170°	567.7	567.0	566.3	565.6	566.3	567.0	567.7	568.4	568.4	567.7	567.0
172.5°	571.3	570.6	569.9	569.2	569.9	570.6	571.3	572.0	572.0	571.4	570.8
175°	575.4	574.7	574.0	573.3	574.0	574.7	575.4	576.1	576.1	575.5	574.9
177.5°	577.1	576.6	576.0	575.4	576.0	576.6	577.1	577.7	577.7	577.3	576.8
180°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9



TEST NUMBER: P332181

CATALOG NUMBER: S123DIW-S1000D460U835-4F0-1E-UDD-A1

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°	13.7	13.6	12.8	13.1	12.3	12.6	11.8	12.1	12.5	12.3	13.2
90°	11.3	10.9	9.6	8.3	6.9	5.6	4.5	3.5	2.5	1.5	0.5
92.5°	17.7	17.4	16.7	15.9	15.2	14.4	13.7	13.0	12.3	11.7	11.0
95°	33.9	33.5	32.7	31.9	31.1	30.3	29.6	28.9	28.1	27.4	26.7
97.5°	52.9	52.5	51.9	51.3	50.7	50.1	49.6	49.1	48.5	48.0	47.5
100°	66.9	66.6	66.1	65.6	65.1	64.6	64.0	63.4	62.8	62.2	61.6
102.5°	82.9	82.6	81.9	81.2	80.6	79.9	79.4	79.0	78.7	78.3	77.9
105°	106.9	106.9	106.0	105.1	104.2	103.3	102.8	102.6	102.4	102.2	102.0
107.5°	132.4	132.1	131.7	131.3	131.0	130.6	130.4	130.2	130.1	130.0	129.9
110°	149.5	149.1	148.9	148.7	148.5	148.3	148.1	147.9	147.7	147.5	147.3



TEST NUMBER: P332181

CATALOG NUMBER: S123DIW-S1000D460U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	166.6	166.1	166.1	166.1	166.0	166.0	165.9	165.8	165.7	165.5	165.4
115°	193.2	193.1	193.3	193.5	193.7	193.9	193.8	193.5	193.2	192.9	192.6
117.5°	219.7	219.7	220.0	220.2	220.5	220.7	220.8	220.6	220.4	220.2	220.0
120°	237.4	237.5	238.0	238.5	239.0	239.5	239.4	238.8	238.2	237.6	237.0
122.5°	255.3	255.6	255.9	256.1	256.4	256.6	256.5	256.1	255.7	255.2	254.8
125°	281.9	282.3	282.5	282.7	282.9	283.1	283.1	282.8	282.5	282.2	281.9
127.5°	308.2	308.8	309.0	309.2	309.5	309.7	309.5	308.8	308.2	307.5	306.9
130°	325.4	325.8	326.1	326.4	326.7	327.0	326.8	326.0	325.2	324.4	323.6
132.5°	342.4	342.9	343.1	343.3	343.5	343.8	343.5	342.7	341.9	341.0	340.2
135°	367.6	368.0	368.1	368.2	368.3	368.4	368.1	367.5	366.9	366.3	365.7
137.5°	392.3	392.7	392.5	392.2	391.9	391.7	391.3	390.8	390.3	389.8	389.3
140°	408.2	408.3	408.2	408.1	408.0	407.9	407.6	407.1	406.6	406.1	405.6
142.5°	423.4	423.5	423.4	423.2	423.0	422.8	422.5	422.0	421.5	421.0	420.5
145°	445.8	445.9	445.6	445.3	445.0	444.7	444.5	444.3	444.1	443.9	443.7
147.5°	466.9	466.9	466.6	466.3	466.0	465.7	465.4	465.0	464.7	464.3	464.0
150°	479.9	479.9	479.7	479.5	479.3	479.1	478.9	478.7	478.5	478.3	478.1
152.5°	491.7	491.5	491.4	491.3	491.1	491.0	490.8	490.5	490.3	490.0	489.7
155°	508.9	508.5	508.4	508.3	508.2	508.1	508.0	508.0	508.0	508.0	508.0
157.5°	523.8	523.4	523.3	523.3	523.2	523.1	523.1	523.2	523.4	523.5	523.6
160°	533.0	532.5	532.5	532.5	532.5	532.5	532.6	532.8	533.0	533.2	533.4
162.5°	541.7	541.2	541.1	541.0	540.9	540.9	541.0	541.2	541.5	541.8	542.1
165°	552.6	552.0	552.0	552.0	552.0	552.0	552.1	552.4	552.7	553.0	553.3
167.5°	561.5	560.8	560.8	560.7	560.6	560.5	560.7	561.1	561.5	561.9	562.3
170°	566.3	565.6	565.6	565.6	565.6	565.6	565.8	566.2	566.6	567.0	567.4
172.5°	570.2	569.5	569.5	569.5	569.5	569.5	569.7	570.2	570.6	571.0	571.4
175°	574.3	573.7	573.7	573.7	573.7	573.7	573.9	574.3	574.7	575.1	575.5
177.5°	576.3	575.8	575.8	575.8	575.8	575.8	576.0	576.3	576.6	576.9	577.3
180°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9



TEST NUMBER: P332181

CATALOG NUMBER: S123DIW-S1000D460U835-4F0-1E-UDD-A1

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°	14.4	14.6	16.5	17.8	20.2	22.1	21.8	21.0	20.7	20.2	19.8
90°	1.5	2.5	3.5	4.5	5.6	6.9	8.3	9.6	10.9	11.3	11.7
92.5°	11.7	12.3	13.0	13.7	14.4	15.2	15.9	16.7	17.4	17.7	18.0
95°	27.4	28.1	28.9	29.6	30.3	31.1	31.9	32.7	33.5	33.9	34.3
97.5°	48.0	48.5	49.1	49.6	50.1	50.7	51.3	51.9	52.5	52.9	53.4
100°	62.2	62.8	63.4	64.0	64.6	65.1	65.6	66.1	66.6	66.9	67.2
102.5°	78.3	78.7	79.0	79.4	79.9	80.6	81.2	81.9	82.6	82.9	83.2
105°	102.2	102.4	102.6	102.8	103.3	104.2	105.1	106.0	106.9	106.9	106.9
107.5°	130.0	130.1	130.2	130.4	130.6	131.0	131.3	131.7	132.1	132.4	132.7
110°	147.5	147.7	147.9	148.1	148.3	148.5	148.7	148.9	149.1	149.5	149.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	165.5	165.7	165.8	165.9	166.0	166.0	166.1	166.1	166.1	166.6	167.1
115°	192.9	193.2	193.5	193.8	193.9	193.7	193.5	193.3	193.1	193.2	193.3
117.5°	220.2	220.4	220.6	220.8	220.7	220.5	220.2	220.0	219.7	219.7	219.7
120°	237.6	238.2	238.8	239.4	239.5	239.0	238.5	238.0	237.5	237.4	237.3
122.5°	255.2	255.7	256.1	256.5	256.6	256.4	256.1	255.9	255.6	255.3	255.1
125°	282.2	282.5	282.8	283.1	283.1	282.9	282.7	282.5	282.3	281.9	281.5
127.5°	307.5	308.2	308.8	309.5	309.7	309.5	309.2	309.0	308.8	308.2	307.7
130°	324.4	325.2	326.0	326.8	327.0	326.7	326.4	326.1	325.8	325.4	325.0
132.5°	341.0	341.9	342.7	343.5	343.8	343.5	343.3	343.1	342.9	342.4	341.9
135°	366.3	366.9	367.5	368.1	368.4	368.3	368.2	368.1	368.0	367.6	367.2
137.5°	389.8	390.3	390.8	391.3	391.7	391.9	392.2	392.5	392.7	392.3	391.9
140°	406.1	406.6	407.1	407.6	407.9	408.0	408.1	408.2	408.3	408.2	408.1
142.5°	421.0	421.5	422.0	422.5	422.8	423.0	423.2	423.4	423.5	423.4	423.3
145°	443.9	444.1	444.3	444.5	444.7	445.0	445.3	445.6	445.9	445.8	445.7
147.5°	464.3	464.7	465.0	465.4	465.7	466.0	466.3	466.6	466.9	466.9	466.9
150°	478.3	478.5	478.7	478.9	479.1	479.3	479.5	479.7	479.9	479.9	479.9
152.5°	490.0	490.3	490.5	490.8	491.0	491.1	491.3	491.4	491.5	491.7	491.8
155°	508.0	508.0	508.0	508.0	508.1	508.2	508.3	508.4	508.5	508.9	509.3
157.5°	523.5	523.4	523.2	523.1	523.1	523.2	523.3	523.3	523.4	523.8	524.3
160°	533.2	533.0	532.8	532.6	532.5	532.5	532.5	532.5	532.5	533.0	533.5
162.5°	541.8	541.5	541.2	541.0	540.9	540.9	541.0	541.1	541.2	541.7	542.2
165°	553.0	552.7	552.4	552.1	552.0	552.0	552.0	552.0	552.0	552.6	553.2
167.5°	561.9	561.5	561.1	560.7	560.5	560.6	560.7	560.8	560.8	561.5	562.1
170°	567.0	566.6	566.2	565.8	565.6	565.6	565.6	565.6	565.6	566.3	567.0
172.5°	571.0	570.6	570.2	569.7	569.5	569.5	569.5	569.5	569.5	570.2	570.8
175°	575.1	574.7	574.3	573.9	573.7	573.7	573.7	573.7	573.7	574.3	574.9
177.5°	576.9	576.6	576.3	576.0	575.8	575.8	575.8	575.8	575.8	576.3	576.8
180°	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9	576.9



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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°	19.3	18.8	18.3	18.9	18.4	17.9	19.1
90°	12.1	12.5	12.8	13.0	13.2	13.4	13.6
92.5°	18.4	18.7	18.8	18.7	18.5	18.4	18.3
95°	34.7	35.1	35.3	35.3	35.3	35.3	35.3
97.5°	53.9	54.3	54.5	54.5	54.5	54.4	54.4
100°	67.5	67.8	68.1	68.3	68.5	68.7	68.9
102.5°	83.5	83.8	83.9	83.9	83.8	83.8	83.7
105°	106.9	106.9	107.0	107.3	107.5	107.7	107.9
107.5°	133.0	133.3	133.4	133.3	133.2	133.1	133.0
110°	150.3	150.7	150.8	150.6	150.4	150.2	150.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	167.6	168.1	168.3	168.2	168.2	168.2	168.1
115°	193.4	193.5	193.5	193.4	193.3	193.2	193.1
117.5°	219.6	219.6	219.5	219.2	218.9	218.6	218.3
120°	237.2	237.1	236.9	236.7	236.5	236.3	236.1
122.5°	254.8	254.5	254.3	254.0	253.7	253.4	253.1
125°	281.1	280.7	280.3	279.9	279.5	279.1	278.7
127.5°	307.1	306.5	306.0	305.6	305.1	304.6	304.2
130°	324.6	324.2	323.7	323.0	322.3	321.6	320.8
132.5°	341.4	340.9	340.4	339.9	339.3	338.8	338.2
135°	366.8	366.4	366.1	365.9	365.7	365.5	365.3
137.5°	391.5	391.0	390.6	390.2	389.9	389.5	389.1
140°	408.0	407.9	407.5	406.8	406.1	405.4	404.7
142.5°	423.2	423.1	422.8	422.3	421.7	421.2	420.6
145°	445.6	445.5	445.3	444.9	444.5	444.1	443.7
147.5°	466.9	466.9	466.6	466.0	465.3	464.7	464.1
150°	479.9	479.9	479.6	479.0	478.4	477.8	477.2
152.5°	492.0	492.2	492.0	491.5	490.9	490.4	489.9
155°	509.7	510.1	509.9	509.2	508.5	507.8	507.1
157.5°	524.7	525.1	525.0	524.5	523.9	523.3	522.8
160°	534.0	534.5	534.5	534.1	533.7	533.3	532.9
162.5°	542.7	543.2	543.1	542.5	541.8	541.2	540.5
165°	553.8	554.4	554.3	553.6	552.9	552.2	551.5
167.5°	562.7	563.3	563.3	562.7	562.1	561.5	560.8
170°	567.7	568.4	568.4	567.7	567.0	566.3	565.6
172.5°	571.4	572.0	572.0	571.3	570.6	569.9	569.2
175°	575.5	576.1	576.1	575.4	574.7	574.0	573.3
177.5°	577.3	577.7	577.7	577.1	576.6	576.0	575.4
180°	576.9	576.9	576.9	576.9	576.9	576.9	576.9

(END OF REPORT)