

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: P332902-930

Luminaire Tested: **SA4XXRDIP-C575D590U930-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

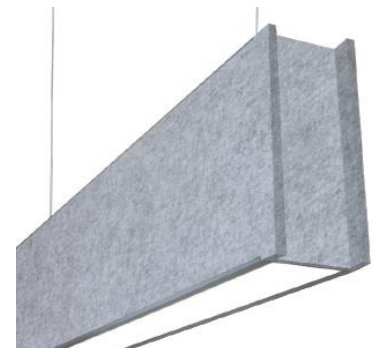
Test Information

Test Method: LM-79-08
Report Number: P332902-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXRDIP-C575D590U930-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 575 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 590 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3660.1 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

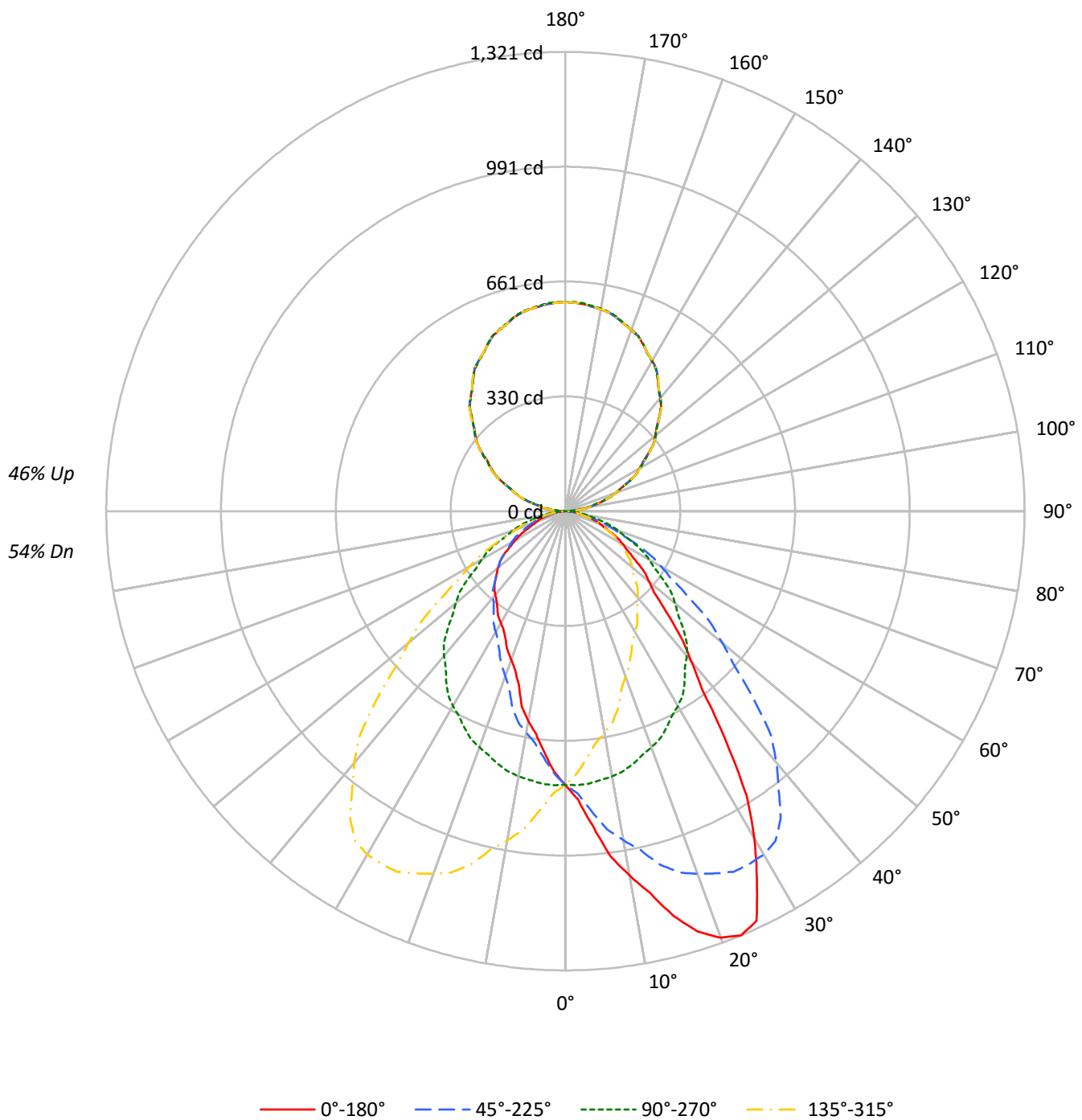
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332902-930

CATALOG NUMBER: SA4XXRDIP-C575D590U930-4F0-1E-UDD-A1

Luminous Intensity Polar Plot



TEST NUMBER: P332902-930

CATALOG NUMBER: SA4XXRDIP-C575D590U930-4F0-1E-UDD-A1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60
1	99	95	91	88	92	88	85	82	76	74	72	65	63	61	54	53	52
2	91	84	78	73	84	78	73	68	67	63	60	57	54	52	48	46	44
3	83	74	67	61	77	69	63	58	60	55	51	51	48	45	43	40	38
4	76	66	58	52	71	61	55	49	53	48	44	46	42	39	39	36	33
5	70	59	51	45	65	55	48	43	48	42	38	41	37	34	35	32	29
6	65	53	45	39	60	50	42	37	43	38	33	37	33	30	32	29	26
7	60	48	40	35	56	45	38	33	39	34	30	34	30	26	29	26	23
8	56	44	36	31	52	41	34	29	36	30	26	31	27	24	27	24	21
9	52	40	32	27	48	38	31	26	33	28	24	29	25	21	25	22	19
10	49	37	29	25	45	35	28	24	31	25	22	27	22	19	23	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6356	6356	6356	6356
5°	7373	6375	5635	6375
10°	8722	6347	5029	6347
15°	10074	6288	4322	6288
20°	11217	6208	3908	6208
25°	11580	6128	3628	6128
30°	10137	6032	3459	6032
35°	7890	5889	3358	5889
40°	5917	5727	3303	5727
45°	4672	5465	3273	5465
50°	3945	5163	3180	5163
55°	3438	4830	3009	4830
60°	3094	4487	2662	4487
65°	2728	4115	2290	4115
70°	2455	3729	2068	3729
75°	2059	3306	1762	3306
80°	1739	2817	1650	2817
85°	1473	2205	1473	2205

TEST NUMBER: P332902-930

CATALOG NUMBER: SA4XXRDIP-C575D590U930-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	2.1
10°-20°	230.1	6.3
20°-30°	359.9	9.8
30°-40°	400.1	10.9
40°-50°	355.0	9.7
50°-60°	276.6	7.6
60°-70°	181.1	4.9
70°-80°	89.1	2.4
80°-90°	23.8	0.6
90°-100°	39.7	1.1
100°-110°	117.5	3.2
110°-120°	199.4	5.4
120°-130°	262.9	7.2
130°-140°	295.3	8.1
140°-150°	290.2	7.9
150°-160°	244.0	6.7
160°-170°	162.4	4.4
170°-180°	56.9	1.6
0°-30°	666.3	18.2
0°-40°	1066.4	29.1
0°-60°	1698.1	46.4
0°-90°	1992.0	54.4
90°-120°	356.5	9.7
90°-150°	1204.9	32.9
90°-180°	1668.0	45.6
0°-180°	3660.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	787	787	787	787	787	
5°	910	787	695	787	910	92
15°	1205	752	517	752	1205	343
25°	1300	688	407	688	1300	577
35°	801	598	341	598	801	502
45°	409	479	287	479	409	324
55°	244	343	214	343	244	222
65°	143	215	120	215	143	144
75°	66	106	56	106	66	73
85°	16	24	16	24	16	18
90°	14	1	14	1	14	8
95°	37	28	37	28	37	38
105°	114	108	114	108	114	120
115°	201	203	201	203	201	199
125°	293	295	293	295	293	261
135°	381	381	381	381	381	294
145°	463	463	463	463	463	290
155°	530	530	530	530	530	244
165°	576	577	576	577	576	162
175°	598	600	598	600	598	57
180°	601	601	601	601	601	

TEST NUMBER: P332902-930

CATALOG NUMBER: SA4XXRDIP-C575D590U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	830.5	832.7	830.5	830.2	827.7	827.0	825.9	822.6	816.5	812.9	813.8
5°	909.8	917.7	913.3	912.6	905.6	898.7	894.2	884.1	873.3	866.0	860.0
7.5°	1001.5	1006.1	1003.3	998.8	987.6	981.1	970.9	957.5	938.2	923.3	909.9
10°	1064.0	1067.7	1066.5	1058.3	1050.0	1033.1	1023.7	1004.9	980.5	961.2	943.1
12.5°	1125.4	1129.4	1118.3	1118.7	1103.0	1089.7	1074.6	1051.2	1022.9	997.9	975.3
15°	1205.4	1200.4	1200.4	1194.0	1176.6	1158.1	1142.6	1117.9	1082.3	1052.6	1021.2
17.5°	1268.1	1269.9	1267.3	1252.3	1238.6	1219.6	1191.1	1162.2	1129.2	1089.2	1057.1
20°	1305.7	1305.7	1302.8	1292.7	1274.9	1254.6	1223.8	1192.5	1150.6	1110.3	1074.1
22.5°	1320.9	1321.9	1318.6	1310.2	1294.2	1274.4	1248.2	1216.3	1173.1	1127.8	1083.0
25°	1300.0	1305.9	1306.6	1304.4	1299.7	1287.6	1265.1	1232.4	1193.7	1144.5	1096.3
27.5°	1193.5	1201.1	1207.8	1218.7	1233.3	1241.0	1241.9	1225.3	1191.6	1144.3	1095.8
30°	1087.4	1093.7	1114.4	1141.3	1162.3	1181.3	1197.8	1202.2	1183.2	1140.7	1089.6
32.5°	969.6	978.3	998.9	1027.9	1062.8	1095.0	1132.1	1151.0	1150.5	1124.9	1077.7
35°	800.6	807.0	826.1	856.5	898.4	946.2	1004.9	1050.6	1081.7	1079.5	1050.6
37.5°	645.7	652.9	672.1	697.4	738.0	797.3	854.1	917.0	974.5	1006.8	997.1
40°	561.5	561.8	580.5	606.5	644.6	696.3	758.1	827.9	892.0	944.4	954.5
42.5°	495.0	495.0	507.4	535.5	562.9	611.6	670.6	739.9	814.9	875.3	902.2
45°	409.2	412.1	422.2	439.0	460.6	501.8	549.1	613.5	697.6	769.2	814.0
47.5°	346.5	350.7	357.2	370.9	388.1	415.6	454.6	512.5	580.9	659.7	723.4
50°	314.1	314.7	322.9	330.5	345.4	367.4	401.6	449.8	512.7	588.4	659.2
52.5°	286.2	286.0	291.0	300.6	312.7	329.8	357.4	401.4	457.1	525.0	598.0
55°	244.3	245.8	249.6	257.2	266.4	278.5	300.4	333.4	377.2	435.2	501.5
57.5°	212.4	213.2	216.2	219.5	227.9	236.7	253.1	276.0	312.9	360.4	422.2
60°	191.6	191.9	192.9	197.6	204.3	212.5	223.6	243.0	274.1	317.6	366.4
62.5°	171.3	171.9	173.3	176.8	182.0	187.7	199.3	214.8	240.6	277.7	321.7
65°	142.8	143.1	145.3	146.6	150.7	155.7	164.3	174.8	192.6	223.6	257.0
67.5°	119.3	119.3	119.4	121.2	124.0	127.3	132.5	140.9	154.3	173.3	202.7
70°	104.0	104.0	104.7	105.7	107.2	110.1	112.9	119.3	129.1	144.6	167.1
72.5°	89.8	90.1	90.7	90.9	91.7	94.1	96.2	100.2	107.5	119.3	137.5
75°	66.0	66.9	68.5	69.8	71.3	71.1	73.3	75.8	78.0	85.0	95.5
77.5°	49.1	48.6	48.8	49.9	50.1	50.4	51.9	53.9	55.6	58.9	62.6
80°	37.4	37.4	38.4	38.7	38.4	38.7	40.3	41.3	41.9	43.1	46.6
82.5°	28.3	28.8	28.5	28.8	29.0	29.4	30.7	30.8	31.5	32.0	33.4
85°	15.9	16.1	16.5	15.9	15.9	15.9	16.5	16.8	17.4	17.1	17.8
87.5°	8.4	8.1	8.3	8.2	8.5	8.2	8.2	8.6	8.0	8.2	8.0
90°	13.9	13.8	13.5	13.4	13.1	12.7	12.1	11.5	10.8	10.2	9.4
92.5°	20.6	20.5	20.4	20.3	20.1	19.9	19.6	19.2	18.8	18.4	17.9
95°	36.8	36.8	36.8	36.8	36.8	36.6	36.3	36.0	35.6	35.3	34.7
97.5°	57.6	57.6	57.6	57.6	57.6	57.4	57.0	56.7	56.3	55.9	55.0
100°	72.1	72.1	72.1	72.1	72.1	72.0	71.7	71.6	71.3	71.2	70.2
102.5°	88.5	88.4	88.3	88.2	88.1	87.9	87.6	87.3	87.1	86.7	85.9
105°	113.5	113.2	112.8	112.5	112.2	111.9	111.6	111.3	111.0	110.6	110.2
107.5°	137.9	137.9	137.9	137.9	137.9	137.8	137.5	137.2	136.9	136.6	136.6
110°	155.3	155.0	154.7	154.4	154.1	154.0	154.3	154.4	154.7	154.8	155.0

TEST NUMBER: P332902-930

CATALOG NUMBER: SA4XXRDIP-C575D590U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	173.2	173.1	173.0	173.0	172.9	172.9	172.9	173.0	173.0	173.1	173.3
115°	200.9	201.0	201.1	201.2	201.3	201.4	201.5	201.6	201.7	201.8	202.0
117.5°	227.3	227.5	227.7	227.9	228.1	228.4	228.8	229.1	229.4	229.8	229.9
120°	247.4	247.2	247.0	246.8	246.5	246.7	247.2	247.8	248.3	248.7	249.1
122.5°	264.2	264.5	264.9	265.2	265.6	266.0	266.4	266.7	267.0	267.4	267.5
125°	292.9	293.2	293.3	293.6	293.8	294.0	294.2	294.4	294.6	294.8	294.9
127.5°	319.7	319.8	320.0	320.2	320.3	320.5	320.7	320.9	321.1	321.3	321.5
130°	337.1	337.5	337.9	338.3	338.8	339.1	339.3	339.5	339.7	339.9	339.9
132.5°	355.7	355.9	356.0	356.2	356.4	356.6	356.8	357.0	357.2	357.4	357.5
135°	381.3	381.6	381.9	382.2	382.5	382.8	383.0	383.2	383.4	383.6	383.6
137.5°	408.2	408.1	408.1	408.0	407.9	408.1	408.3	408.5	408.9	409.1	409.0
140°	424.5	424.7	424.8	424.9	424.9	425.1	425.2	425.3	425.3	425.5	425.5
142.5°	440.9	440.9	441.0	441.0	441.0	441.0	441.1	441.1	441.1	441.1	441.2
145°	463.2	463.4	463.7	464.1	464.4	464.6	464.7	464.8	464.9	465.0	464.9
147.5°	485.7	485.8	485.8	486.0	486.1	486.2	486.2	486.3	486.4	486.5	486.6
150°	499.5	499.5	499.6	499.7	499.9	499.9	499.9	499.9	499.9	499.9	499.9
152.5°	512.1	512.3	512.6	512.9	513.1	513.1	512.9	512.7	512.4	512.2	512.1
155°	529.6	530.0	530.4	530.8	531.3	531.3	530.8	530.4	530.0	529.6	529.8
157.5°	545.4	545.7	546.1	546.4	546.7	546.8	546.5	546.2	545.8	545.5	545.6
160°	554.3	554.8	555.3	555.9	556.4	556.4	556.1	555.9	555.5	555.2	555.3
162.5°	563.6	564.1	564.6	565.2	565.7	565.7	565.1	564.5	563.9	563.4	563.5
165°	575.7	576.1	576.5	576.9	577.3	577.2	576.6	576.0	575.4	574.8	574.9
167.5°	584.3	585.0	585.6	586.3	586.9	586.9	586.3	585.6	585.1	584.4	584.4
170°	589.1	589.9	590.6	591.3	592.1	592.1	591.5	590.8	590.3	589.6	589.5
172.5°	593.3	593.9	594.7	595.4	596.1	596.1	595.5	594.8	594.0	593.4	593.3
175°	597.5	598.3	599.0	599.7	600.4	600.4	599.7	599.0	598.3	597.5	597.6
177.5°	599.7	600.4	601.1	601.8	602.4	602.4	601.9	601.3	600.7	600.1	600.1
180°	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3

TEST NUMBER: P332902-930

CATALOG NUMBER: SA4XXRDIP-C575D590U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	811.2	807.6	805.8	801.8	797.0	794.4	792.1	788.9	784.6	780.0	776.7
5°	852.4	844.7	835.2	823.8	813.7	803.8	795.2	786.7	776.9	766.7	756.6
7.5°	894.6	879.6	863.5	844.7	826.6	810.0	794.8	780.2	763.7	748.9	735.4
10°	924.1	903.8	881.3	857.5	833.6	813.0	792.7	774.3	754.0	736.0	720.7
12.5°	947.9	924.1	897.0	867.3	838.7	813.8	790.4	766.5	743.4	723.7	703.4
15°	987.5	954.8	918.4	882.8	845.7	811.8	780.3	752.4	726.1	698.5	679.1
17.5°	1014.7	975.9	931.6	888.9	845.1	805.0	768.8	735.6	705.2	677.0	654.0
20°	1030.9	988.1	939.0	890.4	841.2	798.4	759.5	722.6	691.2	660.8	637.0
22.5°	1040.1	992.7	939.0	888.1	837.2	790.8	748.0	709.7	675.5	645.1	618.7
25°	1043.0	992.2	937.3	879.0	823.2	774.0	729.6	688.0	650.0	619.5	591.6
27.5°	1038.9	979.2	923.0	863.1	805.5	753.7	707.0	663.3	625.3	592.6	563.9
30°	1032.8	968.8	908.5	846.4	788.0	738.2	689.0	647.1	607.5	573.6	544.7
32.5°	1019.7	956.1	891.3	827.5	768.4	717.1	670.5	628.4	589.5	554.7	524.1
35°	993.5	929.1	858.7	793.4	735.3	682.0	638.2	597.6	560.5	523.4	491.1
37.5°	959.0	893.3	823.2	751.7	693.6	643.3	603.1	565.0	528.7	494.9	459.0
40°	926.6	866.7	794.3	723.3	663.7	615.1	578.0	543.4	507.0	473.3	437.4
42.5°	887.3	836.2	763.1	691.8	632.9	586.1	551.5	517.8	484.6	452.0	414.6
45°	821.6	782.9	714.4	645.9	586.5	540.2	508.5	478.7	449.5	418.4	383.2
47.5°	746.3	720.2	661.0	590.8	536.0	494.3	463.7	439.3	414.6	383.5	352.6
50°	694.1	677.3	620.2	556.1	503.8	465.4	434.0	411.1	390.5	360.7	333.0
52.5°	638.2	629.3	581.1	519.8	469.2	431.6	404.8	384.3	363.4	338.6	312.7
55°	553.3	558.0	517.1	464.1	416.5	384.8	360.4	343.2	325.5	304.5	284.5
57.5°	466.3	483.7	456.2	409.7	365.1	335.8	317.4	303.0	288.1	270.7	253.6
60°	414.3	428.8	413.4	372.4	333.4	306.1	289.0	277.9	262.9	247.1	234.1
62.5°	363.5	379.1	369.9	336.9	300.7	277.2	262.1	251.8	240.7	226.8	213.3
65°	299.8	309.9	305.5	282.7	257.0	236.9	223.0	215.4	205.2	195.1	183.0
67.5°	229.6	249.2	246.6	234.5	212.3	196.7	187.5	180.8	171.5	164.0	155.8
70°	188.7	206.8	206.5	196.7	184.6	170.0	163.7	158.0	149.7	142.4	135.7
72.5°	154.5	171.0	173.5	166.0	157.8	146.7	140.6	136.6	128.7	123.7	118.2
75°	108.2	120.3	123.4	123.4	119.6	113.9	108.5	106.0	100.2	95.8	92.6
77.5°	70.9	78.5	83.5	84.6	85.2	83.3	78.8	77.0	72.7	71.1	68.1
80°	50.1	55.2	60.9	62.8	64.4	63.8	61.9	60.6	56.5	54.9	53.6
82.5°	34.7	37.4	42.2	46.3	45.9	47.5	45.9	44.8	41.7	41.2	39.9
85°	18.1	18.4	19.0	21.9	23.5	24.1	24.5	23.8	22.8	22.8	20.6
87.5°	7.8	7.4	7.7	7.5	7.6	8.3	8.9	8.9	8.4	7.8	7.3
90°	8.6	7.7	6.9	6.0	4.8	3.7	2.5	1.4	2.5	3.7	4.8
92.5°	17.3	16.7	16.1	15.2	13.9	12.6	11.3	9.9	11.3	12.6	13.9
95°	33.9	33.2	32.4	31.6	30.7	29.8	28.9	27.9	28.9	29.8	30.7
97.5°	54.2	53.3	52.5	51.7	51.0	50.2	49.5	48.8	49.5	50.2	51.0
100°	69.3	68.3	67.4	66.8	66.4	66.0	65.6	65.1	65.6	66.0	66.4
102.5°	85.0	84.2	83.4	82.8	82.7	82.5	82.3	82.2	82.3	82.5	82.7
105°	109.8	109.4	109.0	108.8	108.7	108.5	108.4	108.4	108.4	108.5	108.7
107.5°	136.5	136.4	136.4	136.3	136.2	136.0	135.9	135.7	135.9	136.0	136.2
110°	155.1	155.2	155.2	155.2	155.0	154.8	154.6	154.4	154.6	154.8	155.0

TEST NUMBER: P332902-930

CATALOG NUMBER: SA4XXRDIP-C575D590U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	173.4	173.7	173.8	173.9	173.8	173.8	173.7	173.7	173.7	173.8	173.8
115°	202.2	202.4	202.6	202.8	202.8	202.8	202.8	202.8	202.8	202.8	202.8
117.5°	230.1	230.2	230.4	230.4	230.3	230.2	230.2	230.1	230.2	230.2	230.3
120°	249.4	249.7	250.1	250.0	249.6	249.2	248.7	248.3	248.7	249.2	249.6
122.5°	267.7	267.8	268.0	267.9	267.7	267.6	267.4	267.3	267.4	267.6	267.7
125°	295.1	295.1	295.2	295.3	295.3	295.3	295.3	295.3	295.3	295.3	295.3
127.5°	321.6	321.8	322.0	321.9	321.6	321.3	321.0	320.7	321.0	321.3	321.6
130°	339.9	339.9	339.9	339.7	339.5	339.2	338.8	338.5	338.8	339.2	339.5
132.5°	357.6	357.7	357.8	357.7	357.4	357.2	357.0	356.8	357.0	357.2	357.4
135°	383.6	383.6	383.6	383.4	382.7	382.0	381.5	380.8	381.5	382.0	382.7
137.5°	408.8	408.6	408.5	408.2	407.9	407.6	407.3	407.1	407.3	407.6	407.9
140°	425.5	425.5	425.5	425.3	425.2	424.9	424.8	424.5	424.8	424.9	425.2
142.5°	441.2	441.3	441.4	441.4	441.2	441.0	440.8	440.5	440.8	441.0	441.2
145°	464.8	464.7	464.6	464.3	463.9	463.5	463.1	462.7	463.1	463.5	463.9
147.5°	486.7	486.7	486.8	486.7	486.1	485.6	485.1	484.6	485.1	485.6	486.1
150°	499.9	499.9	499.9	499.7	499.3	498.9	498.5	498.0	498.5	498.9	499.3
152.5°	512.0	511.9	511.8	511.7	511.4	511.2	510.9	510.7	510.9	511.2	511.4
155°	529.9	529.9	530.0	530.1	530.1	530.1	530.1	530.1	530.1	530.1	530.1
157.5°	545.6	545.6	545.6	545.8	545.9	546.1	546.3	546.5	546.3	546.1	545.9
160°	555.5	555.5	555.6	555.7	555.9	556.0	556.0	556.1	556.0	556.0	555.9
162.5°	563.6	563.7	563.8	564.0	564.3	564.5	564.8	565.1	564.8	564.5	564.3
165°	575.2	575.4	575.6	575.8	576.2	576.4	576.7	577.1	576.7	576.4	576.2
167.5°	584.4	584.3	584.3	584.6	585.0	585.4	585.9	586.3	585.9	585.4	585.0
170°	589.4	589.3	589.2	589.4	590.0	590.4	591.0	591.5	591.0	590.4	590.0
172.5°	593.3	593.3	593.3	593.5	593.9	594.4	594.8	595.2	594.8	594.4	593.9
175°	597.8	597.9	597.9	598.3	598.8	599.3	599.8	600.3	599.8	599.3	598.8
177.5°	600.1	600.1	600.1	600.3	600.8	601.2	601.6	602.0	601.6	601.2	600.8
180°	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3

TEST NUMBER: P332902-930

CATALOG NUMBER: SA4XXRDIP-C575D590U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	773.1	770.6	767.3	763.4	758.9	754.9	753.1	754.6	755.4	753.3	753.1
5°	749.6	741.7	735.3	725.8	718.2	711.8	707.4	705.5	706.1	701.1	699.8
7.5°	723.1	713.7	703.4	692.0	681.5	672.2	667.3	664.6	659.3	657.0	653.1
10°	706.1	693.4	683.3	669.9	657.9	646.8	641.4	637.0	631.6	629.0	623.6
12.5°	688.6	673.9	662.8	648.9	636.6	623.2	618.1	609.8	601.4	596.1	589.1
15°	663.9	646.2	632.5	616.0	601.4	586.2	572.6	557.3	551.6	539.6	532.6
17.5°	635.0	617.0	600.1	578.0	555.5	536.6	522.0	507.5	498.7	491.1	487.5
20°	616.0	599.6	576.1	550.4	525.3	504.3	492.6	483.1	473.6	468.2	464.4
22.5°	598.0	577.0	549.7	522.0	496.9	480.5	470.6	460.8	453.1	447.9	442.9
25°	567.9	540.2	511.4	479.6	462.5	448.3	437.4	429.5	424.8	418.1	415.6
27.5°	536.8	503.4	471.5	450.2	432.4	419.3	409.9	404.0	397.9	393.6	390.4
30°	512.9	479.0	450.5	430.2	412.1	401.3	393.6	386.7	382.0	378.5	375.9
32.5°	489.3	455.4	431.4	409.6	395.3	384.8	376.7	371.5	367.7	363.2	361.7
35°	455.2	425.1	404.1	384.5	369.9	360.4	354.0	348.6	345.4	344.2	343.2
37.5°	422.4	397.7	375.2	359.1	346.1	338.6	331.1	328.5	326.3	324.0	325.1
40°	401.6	378.5	358.5	341.4	330.8	322.6	318.1	315.0	313.1	313.1	313.1
42.5°	383.6	360.9	341.4	326.1	315.6	308.7	303.7	301.0	300.4	300.1	301.7
45°	355.6	334.7	315.0	302.3	293.4	286.4	283.6	281.4	281.4	282.7	283.0
47.5°	327.9	308.3	292.4	278.3	270.1	265.8	263.3	262.1	262.3	263.5	265.0
50°	310.9	291.6	276.0	263.3	255.7	251.5	249.3	248.7	249.3	249.3	251.5
52.5°	292.4	275.0	259.8	249.1	240.4	236.6	235.4	234.5	234.9	235.9	236.8
55°	265.2	249.6	235.1	224.9	218.6	216.1	213.2	213.5	212.9	213.5	213.5
57.5°	238.0	224.0	210.4	202.4	196.8	193.1	190.0	190.9	190.0	189.8	189.3
60°	220.5	205.2	194.4	187.2	180.8	177.7	174.8	175.5	174.5	173.8	172.6
62.5°	201.5	188.7	178.5	171.5	166.3	162.7	159.8	159.1	156.9	154.8	152.0
65°	173.8	163.4	154.2	147.5	142.8	139.9	137.7	135.7	131.0	126.0	123.4
67.5°	147.0	139.4	130.9	125.2	121.4	117.6	113.4	110.1	105.7	102.9	101.3
70°	129.7	122.5	115.1	109.7	105.7	102.2	97.3	95.1	92.0	90.7	89.1
72.5°	113.2	106.5	99.6	94.8	90.4	87.6	84.0	81.7	80.3	79.8	78.2
75°	88.2	82.8	77.7	73.3	69.8	67.9	66.3	64.7	64.1	61.2	59.6
77.5°	64.3	60.7	57.6	54.5	51.9	50.7	47.6	45.8	44.8	43.4	43.0
80°	50.1	47.6	44.4	42.5	39.1	37.7	36.4	36.2	35.9	35.5	35.2
82.5°	37.7	35.1	32.0	30.8	29.9	29.1	28.4	28.0	27.7	27.9	27.9
85°	19.0	17.8	17.8	17.4	17.1	16.8	16.5	16.5	16.1	16.5	16.1
87.5°	7.5	7.5	7.7	7.3	7.7	7.9	7.7	7.9	8.2	7.9	8.0
90°	6.0	6.9	7.7	8.6	9.4	10.2	10.8	11.5	12.1	12.7	13.1
92.5°	15.2	16.1	16.7	17.3	17.9	18.4	18.8	19.2	19.6	19.9	20.1
95°	31.6	32.4	33.2	33.9	34.7	35.3	35.6	36.0	36.3	36.6	36.8
97.5°	51.7	52.5	53.3	54.2	55.0	55.9	56.3	56.7	57.0	57.4	57.6
100°	66.8	67.4	68.3	69.3	70.2	71.2	71.3	71.6	71.7	72.0	72.1
102.5°	82.8	83.4	84.2	85.0	85.9	86.7	87.1	87.3	87.6	87.9	88.1
105°	108.8	109.0	109.4	109.8	110.2	110.6	111.0	111.3	111.6	111.9	112.2
107.5°	136.3	136.4	136.4	136.5	136.6	136.6	136.9	137.2	137.5	137.8	137.9
110°	155.2	155.2	155.2	155.1	155.0	154.8	154.7	154.4	154.3	154.0	154.1

TEST NUMBER: P332902-930

CATALOG NUMBER: SA4XXRDIP-C575D590U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	173.9	173.8	173.7	173.4	173.3	173.1	173.0	173.0	172.9	172.9	172.9
115°	202.8	202.6	202.4	202.2	202.0	201.8	201.7	201.6	201.5	201.4	201.3
117.5°	230.4	230.4	230.2	230.1	229.9	229.8	229.4	229.1	228.8	228.4	228.1
120°	250.0	250.1	249.7	249.4	249.1	248.7	248.3	247.8	247.2	246.7	246.5
122.5°	267.9	268.0	267.8	267.7	267.5	267.4	267.0	266.7	266.4	266.0	265.6
125°	295.3	295.2	295.1	295.1	294.9	294.8	294.6	294.4	294.2	294.0	293.8
127.5°	321.9	322.0	321.8	321.6	321.5	321.3	321.1	320.9	320.7	320.5	320.3
130°	339.7	339.9	339.9	339.9	339.9	339.9	339.7	339.5	339.3	339.1	338.8
132.5°	357.7	357.8	357.7	357.6	357.5	357.4	357.2	357.0	356.8	356.6	356.4
135°	383.4	383.6	383.6	383.6	383.6	383.6	383.4	383.2	383.0	382.8	382.5
137.5°	408.2	408.5	408.6	408.8	409.0	409.1	408.9	408.5	408.3	408.1	407.9
140°	425.3	425.5	425.5	425.5	425.5	425.5	425.3	425.3	425.2	425.1	424.9
142.5°	441.4	441.4	441.3	441.2	441.2	441.1	441.1	441.1	441.1	441.0	441.0
145°	464.3	464.6	464.7	464.8	464.9	465.0	464.9	464.8	464.7	464.6	464.4
147.5°	486.7	486.8	486.7	486.7	486.6	486.5	486.4	486.3	486.2	486.2	486.1
150°	499.7	499.9	499.9	499.9	499.9	499.9	499.9	499.9	499.9	499.9	499.9
152.5°	511.7	511.8	511.9	512.0	512.1	512.2	512.4	512.7	512.9	513.1	513.1
155°	530.1	530.0	529.9	529.9	529.8	529.6	530.0	530.4	530.8	531.3	531.3
157.5°	545.8	545.6	545.6	545.6	545.6	545.5	545.8	546.2	546.5	546.8	546.7
160°	555.7	555.6	555.5	555.5	555.3	555.2	555.5	555.9	556.1	556.4	556.4
162.5°	564.0	563.8	563.7	563.6	563.5	563.4	563.9	564.5	565.1	565.7	565.7
165°	575.8	575.6	575.4	575.2	574.9	574.8	575.4	576.0	576.6	577.2	577.3
167.5°	584.6	584.3	584.3	584.4	584.4	584.4	585.1	585.6	586.3	586.9	586.9
170°	589.4	589.2	589.3	589.4	589.5	589.6	590.3	590.8	591.5	592.1	592.1
172.5°	593.5	593.3	593.3	593.3	593.3	593.4	594.0	594.8	595.5	596.1	596.1
175°	598.3	597.9	597.9	597.8	597.6	597.5	598.3	599.0	599.7	600.4	600.4
177.5°	600.3	600.1	600.1	600.1	600.1	600.1	600.7	601.3	601.9	602.4	602.4
180°	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3

TEST NUMBER: P332902-930

CATALOG NUMBER: SA4XXRDIP-C575D590U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	751.5	752.0	750.3	749.7	750.3	752.0	751.5	753.1	753.3	755.4	754.6
5°	697.2	696.6	695.0	695.4	695.0	696.6	697.2	699.8	701.1	706.1	705.5
7.5°	650.8	648.3	649.1	646.5	649.1	648.3	650.8	653.1	657.0	659.3	664.6
10°	622.4	618.9	616.0	613.5	616.0	618.9	622.4	623.6	629.0	631.6	637.0
12.5°	583.6	580.6	576.7	577.5	576.7	580.6	583.6	589.1	596.1	601.4	609.8
15°	528.5	523.7	516.1	517.1	516.1	523.7	528.5	532.6	539.6	551.6	557.3
17.5°	481.8	481.9	478.4	479.2	478.4	481.9	481.8	487.5	491.1	498.7	507.5
20°	457.7	455.5	455.8	454.9	455.8	455.5	457.7	464.4	468.2	473.6	483.1
22.5°	441.0	438.3	436.0	434.1	436.0	438.3	441.0	442.9	447.9	453.1	460.8
25°	412.7	410.8	408.0	407.3	408.0	410.8	412.7	415.6	418.1	424.8	429.5
27.5°	387.8	387.4	386.3	384.8	386.3	387.4	387.8	390.4	393.6	397.9	404.0
30°	373.3	372.8	372.1	371.1	372.1	372.8	373.3	375.9	378.5	382.0	386.7
32.5°	360.4	360.0	359.4	359.5	359.4	360.0	360.4	361.7	363.2	367.7	371.5
35°	341.9	341.6	341.0	340.7	341.0	341.6	341.9	343.2	344.2	345.4	348.6
37.5°	324.7	325.5	325.1	325.1	325.1	325.5	324.7	325.1	324.0	326.3	328.5
40°	312.7	313.1	313.7	313.4	313.7	313.1	312.7	313.1	313.1	313.1	315.0
42.5°	302.9	303.0	303.9	302.7	303.9	303.0	302.9	301.7	300.1	300.4	301.0
45°	285.2	287.1	286.7	286.7	286.7	287.1	285.2	283.0	282.7	281.4	281.4
47.5°	265.8	267.5	267.9	267.8	267.9	267.5	265.8	265.0	263.5	262.3	262.1
50°	253.2	252.5	253.5	253.2	253.5	252.5	253.2	251.5	249.3	249.3	248.7
52.5°	237.7	237.8	237.7	237.4	237.7	237.8	237.7	236.8	235.9	234.9	234.5
55°	213.8	214.1	213.5	213.8	213.5	214.1	213.8	213.5	213.5	212.9	213.5
57.5°	187.9	186.4	187.0	186.3	187.0	186.4	187.9	189.3	189.8	190.0	190.9
60°	169.4	166.9	166.2	164.9	166.2	166.9	169.4	172.6	173.8	174.5	175.5
62.5°	148.5	146.8	144.6	145.7	144.6	146.8	148.5	152.0	154.8	156.9	159.1
65°	120.8	119.6	118.6	119.9	118.6	119.6	120.8	123.4	126.0	131.0	135.7
67.5°	100.0	99.4	99.4	98.7	99.4	99.4	100.0	101.3	102.9	105.7	110.1
70°	89.1	88.2	88.2	87.6	88.2	88.2	89.1	89.1	90.7	92.0	95.1
72.5°	77.9	77.0	77.3	76.9	77.3	77.0	77.9	78.2	79.8	80.3	81.7
75°	57.7	56.2	56.2	56.5	56.2	56.2	57.7	59.6	61.2	64.1	64.7
77.5°	43.0	42.7	43.2	42.6	43.2	42.7	43.0	43.0	43.4	44.8	45.8
80°	35.2	34.9	34.6	35.5	34.6	34.9	35.2	35.2	35.5	35.9	36.2
82.5°	27.3	27.3	27.2	28.5	27.2	27.3	27.3	27.9	27.9	27.7	28.0
85°	16.5	15.9	16.5	15.9	16.5	15.9	16.5	16.1	16.5	16.1	16.5
87.5°	8.5	8.3	8.1	8.4	8.1	8.3	8.5	8.0	7.9	8.2	7.9
90°	13.4	13.5	13.8	13.9	13.8	13.5	13.4	13.1	12.7	12.1	11.5
92.5°	20.3	20.4	20.5	20.6	20.5	20.4	20.3	20.1	19.9	19.6	19.2
95°	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.6	36.3	36.0
97.5°	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.4	57.0	56.7
100°	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.0	71.7	71.6
102.5°	88.2	88.3	88.4	88.5	88.4	88.3	88.2	88.1	87.9	87.6	87.3
105°	112.5	112.8	113.2	113.5	113.2	112.8	112.5	112.2	111.9	111.6	111.3
107.5°	137.9	137.9	137.9	137.9	137.9	137.9	137.9	137.9	137.8	137.5	137.2
110°	154.4	154.7	155.0	155.3	155.0	154.7	154.4	154.1	154.0	154.3	154.4

TEST NUMBER: P332902-930

CATALOG NUMBER: SA4XXRDIP-C575D590U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	173.0	173.0	173.1	173.2	173.1	173.0	173.0	172.9	172.9	172.9	173.0
115°	201.2	201.1	201.0	200.9	201.0	201.1	201.2	201.3	201.4	201.5	201.6
117.5°	227.9	227.7	227.5	227.3	227.5	227.7	227.9	228.1	228.4	228.8	229.1
120°	246.8	247.0	247.2	247.4	247.2	247.0	246.8	246.5	246.7	247.2	247.8
122.5°	265.2	264.9	264.5	264.2	264.5	264.9	265.2	265.6	266.0	266.4	266.7
125°	293.6	293.3	293.2	292.9	293.2	293.3	293.6	293.8	294.0	294.2	294.4
127.5°	320.2	320.0	319.8	319.7	319.8	320.0	320.2	320.3	320.5	320.7	320.9
130°	338.3	337.9	337.5	337.1	337.5	337.9	338.3	338.8	339.1	339.3	339.5
132.5°	356.2	356.0	355.9	355.7	355.9	356.0	356.2	356.4	356.6	356.8	357.0
135°	382.2	381.9	381.6	381.3	381.6	381.9	382.2	382.5	382.8	383.0	383.2
137.5°	408.0	408.1	408.1	408.2	408.1	408.1	408.0	407.9	408.1	408.3	408.5
140°	424.9	424.8	424.7	424.5	424.7	424.8	424.9	424.9	425.1	425.2	425.3
142.5°	441.0	441.0	440.9	440.9	440.9	441.0	441.0	441.0	441.0	441.1	441.1
145°	464.1	463.7	463.4	463.2	463.4	463.7	464.1	464.4	464.6	464.7	464.8
147.5°	486.0	485.8	485.8	485.7	485.8	485.8	486.0	486.1	486.2	486.2	486.3
150°	499.7	499.6	499.5	499.5	499.5	499.6	499.7	499.9	499.9	499.9	499.9
152.5°	512.9	512.6	512.3	512.1	512.3	512.6	512.9	513.1	513.1	512.9	512.7
155°	530.8	530.4	530.0	529.6	530.0	530.4	530.8	531.3	531.3	530.8	530.4
157.5°	546.4	546.1	545.7	545.4	545.7	546.1	546.4	546.7	546.8	546.5	546.2
160°	555.9	555.3	554.8	554.3	554.8	555.3	555.9	556.4	556.4	556.1	555.9
162.5°	565.2	564.6	564.1	563.6	564.1	564.6	565.2	565.7	565.7	565.1	564.5
165°	576.9	576.5	576.1	575.7	576.1	576.5	576.9	577.3	577.2	576.6	576.0
167.5°	586.3	585.6	585.0	584.3	585.0	585.6	586.3	586.9	586.9	586.3	585.6
170°	591.3	590.6	589.9	589.1	589.9	590.6	591.3	592.1	592.1	591.5	590.8
172.5°	595.4	594.7	593.9	593.3	593.9	594.7	595.4	596.1	596.1	595.5	594.8
175°	599.7	599.0	598.3	597.5	598.3	599.0	599.7	600.4	600.4	599.7	599.0
177.5°	601.8	601.1	600.4	599.7	600.4	601.1	601.8	602.4	602.4	601.9	601.3
180°	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3

TEST NUMBER: P332902-930

CATALOG NUMBER: SA4XXRDIP-C575D590U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	753.1	754.9	758.9	763.4	767.3	770.6	773.1	776.7	780.0	784.6	788.9
5°	707.4	711.8	718.2	725.8	735.3	741.7	749.6	756.6	766.7	776.9	786.7
7.5°	667.3	672.2	681.5	692.0	703.4	713.7	723.1	735.4	748.9	763.7	780.2
10°	641.4	646.8	657.9	669.9	683.3	693.4	706.1	720.7	736.0	754.0	774.3
12.5°	618.1	623.2	636.6	648.9	662.8	673.9	688.6	703.4	723.7	743.4	766.5
15°	572.6	586.2	601.4	616.0	632.5	646.2	663.9	679.1	698.5	726.1	752.4
17.5°	522.0	536.6	555.5	578.0	600.1	617.0	635.0	654.0	677.0	705.2	735.6
20°	492.6	504.3	525.3	550.4	576.1	599.6	616.0	637.0	660.8	691.2	722.6
22.5°	470.6	480.5	496.9	522.0	549.7	577.0	598.0	618.7	645.1	675.5	709.7
25°	437.4	448.3	462.5	479.6	511.4	540.2	567.9	591.6	619.5	650.0	688.0
27.5°	409.9	419.3	432.4	450.2	471.5	503.4	536.8	563.9	592.6	625.3	663.3
30°	393.6	401.3	412.1	430.2	450.5	479.0	512.9	544.7	573.6	607.5	647.1
32.5°	376.7	384.8	395.3	409.6	431.4	455.4	489.3	524.1	554.7	589.5	628.4
35°	354.0	360.4	369.9	384.5	404.1	425.1	455.2	491.1	523.4	560.5	597.6
37.5°	331.1	338.6	346.1	359.1	375.2	397.7	422.4	459.0	494.9	528.7	565.0
40°	318.1	322.6	330.8	341.4	358.5	378.5	401.6	437.4	473.3	507.0	543.4
42.5°	303.7	308.7	315.6	326.1	341.4	360.9	383.6	414.6	452.0	484.6	517.8
45°	283.6	286.4	293.4	302.3	315.0	334.7	355.6	383.2	418.4	449.5	478.7
47.5°	263.3	265.8	270.1	278.3	292.4	308.3	327.9	352.6	383.5	414.6	439.3
50°	249.3	251.5	255.7	263.3	276.0	291.6	310.9	333.0	360.7	390.5	411.1
52.5°	235.4	236.6	240.4	249.1	259.8	275.0	292.4	312.7	338.6	363.4	384.3
55°	213.2	216.1	218.6	224.9	235.1	249.6	265.2	284.5	304.5	325.5	343.2
57.5°	190.0	193.1	196.8	202.4	210.4	224.0	238.0	253.6	270.7	288.1	303.0
60°	174.8	177.7	180.8	187.2	194.4	205.2	220.5	234.1	247.1	262.9	277.9
62.5°	159.8	162.7	166.3	171.5	178.5	188.7	201.5	213.3	226.8	240.7	251.8
65°	137.7	139.9	142.8	147.5	154.2	163.4	173.8	183.0	195.1	205.2	215.4
67.5°	113.4	117.6	121.4	125.2	130.9	139.4	147.0	155.8	164.0	171.5	180.8
70°	97.3	102.2	105.7	109.7	115.1	122.5	129.7	135.7	142.4	149.7	158.0
72.5°	84.0	87.6	90.4	94.8	99.6	106.5	113.2	118.2	123.7	128.7	136.6
75°	66.3	67.9	69.8	73.3	77.7	82.8	88.2	92.6	95.8	100.2	106.0
77.5°	47.6	50.7	51.9	54.5	57.6	60.7	64.3	68.1	71.1	72.7	77.0
80°	36.4	37.7	39.1	42.5	44.4	47.6	50.1	53.6	54.9	56.5	60.6
82.5°	28.4	29.1	29.9	30.8	32.0	35.1	37.7	39.9	41.2	41.7	44.8
85°	16.5	16.8	17.1	17.4	17.8	17.8	19.0	20.6	22.8	22.8	23.8
87.5°	7.7	7.9	7.7	7.3	7.7	7.5	7.5	7.3	7.8	8.4	8.9
90°	10.8	10.2	9.4	8.6	7.7	6.9	6.0	4.8	3.7	2.5	1.4
92.5°	18.8	18.4	17.9	17.3	16.7	16.1	15.2	13.9	12.6	11.3	9.9
95°	35.6	35.3	34.7	33.9	33.2	32.4	31.6	30.7	29.8	28.9	27.9
97.5°	56.3	55.9	55.0	54.2	53.3	52.5	51.7	51.0	50.2	49.5	48.8
100°	71.3	71.2	70.2	69.3	68.3	67.4	66.8	66.4	66.0	65.6	65.1
102.5°	87.1	86.7	85.9	85.0	84.2	83.4	82.8	82.7	82.5	82.3	82.2
105°	111.0	110.6	110.2	109.8	109.4	109.0	108.8	108.7	108.5	108.4	108.4
107.5°	136.9	136.6	136.6	136.5	136.4	136.4	136.3	136.2	136.0	135.9	135.7
110°	154.7	154.8	155.0	155.1	155.2	155.2	155.2	155.0	154.8	154.6	154.4

TEST NUMBER: P332902-930

CATALOG NUMBER: SA4XXRDIP-C575D590U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	173.0	173.1	173.3	173.4	173.7	173.8	173.9	173.8	173.8	173.7	173.7
115°	201.7	201.8	202.0	202.2	202.4	202.6	202.8	202.8	202.8	202.8	202.8
117.5°	229.4	229.8	229.9	230.1	230.2	230.4	230.4	230.3	230.2	230.2	230.1
120°	248.3	248.7	249.1	249.4	249.7	250.1	250.0	249.6	249.2	248.7	248.3
122.5°	267.0	267.4	267.5	267.7	267.8	268.0	267.9	267.7	267.6	267.4	267.3
125°	294.6	294.8	294.9	295.1	295.1	295.2	295.3	295.3	295.3	295.3	295.3
127.5°	321.1	321.3	321.5	321.6	321.8	322.0	321.9	321.6	321.3	321.0	320.7
130°	339.7	339.9	339.9	339.9	339.9	339.9	339.7	339.5	339.2	338.8	338.5
132.5°	357.2	357.4	357.5	357.6	357.7	357.8	357.7	357.4	357.2	357.0	356.8
135°	383.4	383.6	383.6	383.6	383.6	383.6	383.4	382.7	382.0	381.5	380.8
137.5°	408.9	409.1	409.0	408.8	408.6	408.5	408.2	407.9	407.6	407.3	407.1
140°	425.3	425.5	425.5	425.5	425.5	425.5	425.3	425.2	424.9	424.8	424.5
142.5°	441.1	441.1	441.2	441.2	441.3	441.4	441.4	441.2	441.0	440.8	440.5
145°	464.9	465.0	464.9	464.8	464.7	464.6	464.3	463.9	463.5	463.1	462.7
147.5°	486.4	486.5	486.6	486.7	486.7	486.8	486.7	486.1	485.6	485.1	484.6
150°	499.9	499.9	499.9	499.9	499.9	499.9	499.7	499.3	498.9	498.5	498.0
152.5°	512.4	512.2	512.1	512.0	511.9	511.8	511.7	511.4	511.2	510.9	510.7
155°	530.0	529.6	529.8	529.9	529.9	530.0	530.1	530.1	530.1	530.1	530.1
157.5°	545.8	545.5	545.6	545.6	545.6	545.6	545.8	545.9	546.1	546.3	546.5
160°	555.5	555.2	555.3	555.5	555.5	555.6	555.7	555.9	556.0	556.0	556.1
162.5°	563.9	563.4	563.5	563.6	563.7	563.8	564.0	564.3	564.5	564.8	565.1
165°	575.4	574.8	574.9	575.2	575.4	575.6	575.8	576.2	576.4	576.7	577.1
167.5°	585.1	584.4	584.4	584.4	584.3	584.3	584.6	585.0	585.4	585.9	586.3
170°	590.3	589.6	589.5	589.4	589.3	589.2	589.4	590.0	590.4	591.0	591.5
172.5°	594.0	593.4	593.3	593.3	593.3	593.3	593.5	593.9	594.4	594.8	595.2
175°	598.3	597.5	597.6	597.8	597.9	597.9	598.3	598.8	599.3	599.8	600.3
177.5°	600.7	600.1	600.1	600.1	600.1	600.1	600.3	600.8	601.2	601.6	602.0
180°	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3

TEST NUMBER: P332902-930

CATALOG NUMBER: SA4XXRDIP-C575D590U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	792.1	794.4	797.0	801.8	805.8	807.6	811.2	813.8	812.9	816.5	822.6
5°	795.2	803.8	813.7	823.8	835.2	844.7	852.4	860.0	866.0	873.3	884.1
7.5°	794.8	810.0	826.6	844.7	863.5	879.6	894.6	909.9	923.3	938.2	957.5
10°	792.7	813.0	833.6	857.5	881.3	903.8	924.1	943.1	961.2	980.5	1004.9
12.5°	790.4	813.8	838.7	867.3	897.0	924.1	947.9	975.3	997.9	1022.9	1051.2
15°	780.3	811.8	845.7	882.8	918.4	954.8	987.5	1021.2	1052.6	1082.3	1117.9
17.5°	768.8	805.0	845.1	888.9	931.6	975.9	1014.7	1057.1	1089.2	1129.2	1162.2
20°	759.5	798.4	841.2	890.4	939.0	988.1	1030.9	1074.1	1110.3	1150.6	1192.5
22.5°	748.0	790.8	837.2	888.1	939.0	992.7	1040.1	1083.0	1127.8	1173.1	1216.3
25°	729.6	774.0	823.2	879.0	937.3	992.2	1043.0	1096.3	1144.5	1193.7	1232.4
27.5°	707.0	753.7	805.5	863.1	923.0	979.2	1038.9	1095.8	1144.3	1191.6	1225.3
30°	689.0	738.2	788.0	846.4	908.5	968.8	1032.8	1089.6	1140.7	1183.2	1202.2
32.5°	670.5	717.1	768.4	827.5	891.3	956.1	1019.7	1077.7	1124.9	1150.5	1151.0
35°	638.2	682.0	735.3	793.4	858.7	929.1	993.5	1050.6	1079.5	1081.7	1050.6
37.5°	603.1	643.3	693.6	751.7	823.2	893.3	959.0	997.1	1006.8	974.5	917.0
40°	578.0	615.1	663.7	723.3	794.3	866.7	926.6	954.5	944.4	892.0	827.9
42.5°	551.5	586.1	632.9	691.8	763.1	836.2	887.3	902.2	875.3	814.9	739.9
45°	508.5	540.2	586.5	645.9	714.4	782.9	821.6	814.0	769.2	697.6	613.5
47.5°	463.7	494.3	536.0	590.8	661.0	720.2	746.3	723.4	659.7	580.9	512.5
50°	434.0	465.4	503.8	556.1	620.2	677.3	694.1	659.2	588.4	512.7	449.8
52.5°	404.8	431.6	469.2	519.8	581.1	629.3	638.2	598.0	525.0	457.1	401.4
55°	360.4	384.8	416.5	464.1	517.1	558.0	553.3	501.5	435.2	377.2	333.4
57.5°	317.4	335.8	365.1	409.7	456.2	483.7	466.3	422.2	360.4	312.9	276.0
60°	289.0	306.1	333.4	372.4	413.4	428.8	414.3	366.4	317.6	274.1	243.0
62.5°	262.1	277.2	300.7	336.9	369.9	379.1	363.5	321.7	277.7	240.6	214.8
65°	223.0	236.9	257.0	282.7	305.5	309.9	299.8	257.0	223.6	192.6	174.8
67.5°	187.5	196.7	212.3	234.5	246.6	249.2	229.6	202.7	173.3	154.3	140.9
70°	163.7	170.0	184.6	196.7	206.5	206.8	188.7	167.1	144.6	129.1	119.3
72.5°	140.6	146.7	157.8	166.0	173.5	171.0	154.5	137.5	119.3	107.5	100.2
75°	108.5	113.9	119.6	123.4	123.4	120.3	108.2	95.5	85.0	78.0	75.8
77.5°	78.8	83.3	85.2	84.6	83.5	78.5	70.9	62.6	58.9	55.6	53.9
80°	61.9	63.8	64.4	62.8	60.9	55.2	50.1	46.6	43.1	41.9	41.3
82.5°	45.9	47.5	45.9	46.3	42.2	37.4	34.7	33.4	32.0	31.5	30.8
85°	24.5	24.1	23.5	21.9	19.0	18.4	18.1	17.8	17.1	17.4	16.8
87.5°	8.9	8.3	7.6	7.5	7.7	7.4	7.8	8.0	8.2	8.0	8.6
90°	2.5	3.7	4.8	6.0	6.9	7.7	8.6	9.4	10.2	10.8	11.5
92.5°	11.3	12.6	13.9	15.2	16.1	16.7	17.3	17.9	18.4	18.8	19.2
95°	28.9	29.8	30.7	31.6	32.4	33.2	33.9	34.7	35.3	35.6	36.0
97.5°	49.5	50.2	51.0	51.7	52.5	53.3	54.2	55.0	55.9	56.3	56.7
100°	65.6	66.0	66.4	66.8	67.4	68.3	69.3	70.2	71.2	71.3	71.6
102.5°	82.3	82.5	82.7	82.8	83.4	84.2	85.0	85.9	86.7	87.1	87.3
105°	108.4	108.5	108.7	108.8	109.0	109.4	109.8	110.2	110.6	111.0	111.3
107.5°	135.9	136.0	136.2	136.3	136.4	136.4	136.5	136.6	136.6	136.9	137.2
110°	154.6	154.8	155.0	155.2	155.2	155.2	155.1	155.0	154.8	154.7	154.4

TEST NUMBER: P332902-930

CATALOG NUMBER: SA4XXRDIP-C575D590U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	173.7	173.8	173.8	173.9	173.8	173.7	173.4	173.3	173.1	173.0	173.0
115°	202.8	202.8	202.8	202.8	202.6	202.4	202.2	202.0	201.8	201.7	201.6
117.5°	230.2	230.2	230.3	230.4	230.4	230.2	230.1	229.9	229.8	229.4	229.1
120°	248.7	249.2	249.6	250.0	250.1	249.7	249.4	249.1	248.7	248.3	247.8
122.5°	267.4	267.6	267.7	267.9	268.0	267.8	267.7	267.5	267.4	267.0	266.7
125°	295.3	295.3	295.3	295.3	295.2	295.1	295.1	294.9	294.8	294.6	294.4
127.5°	321.0	321.3	321.6	321.9	322.0	321.8	321.6	321.5	321.3	321.1	320.9
130°	338.8	339.2	339.5	339.7	339.9	339.9	339.9	339.9	339.9	339.7	339.5
132.5°	357.0	357.2	357.4	357.7	357.8	357.7	357.6	357.5	357.4	357.2	357.0
135°	381.5	382.0	382.7	383.4	383.6	383.6	383.6	383.6	383.6	383.4	383.2
137.5°	407.3	407.6	407.9	408.2	408.5	408.6	408.8	409.0	409.1	408.9	408.5
140°	424.8	424.9	425.2	425.3	425.5	425.5	425.5	425.5	425.5	425.3	425.3
142.5°	440.8	441.0	441.2	441.4	441.4	441.3	441.2	441.2	441.1	441.1	441.1
145°	463.1	463.5	463.9	464.3	464.6	464.7	464.8	464.9	465.0	464.9	464.8
147.5°	485.1	485.6	486.1	486.7	486.8	486.7	486.7	486.6	486.5	486.4	486.3
150°	498.5	498.9	499.3	499.7	499.9	499.9	499.9	499.9	499.9	499.9	499.9
152.5°	510.9	511.2	511.4	511.7	511.8	511.9	512.0	512.1	512.2	512.4	512.7
155°	530.1	530.1	530.1	530.1	530.0	529.9	529.9	529.8	529.6	530.0	530.4
157.5°	546.3	546.1	545.9	545.8	545.6	545.6	545.6	545.6	545.5	545.8	546.2
160°	556.0	556.0	555.9	555.7	555.6	555.5	555.5	555.3	555.2	555.5	555.9
162.5°	564.8	564.5	564.3	564.0	563.8	563.7	563.6	563.5	563.4	563.9	564.5
165°	576.7	576.4	576.2	575.8	575.6	575.4	575.2	574.9	574.8	575.4	576.0
167.5°	585.9	585.4	585.0	584.6	584.3	584.3	584.4	584.4	584.4	585.1	585.6
170°	591.0	590.4	590.0	589.4	589.2	589.3	589.4	589.5	589.6	590.3	590.8
172.5°	594.8	594.4	593.9	593.5	593.3	593.3	593.3	593.3	593.4	594.0	594.8
175°	599.8	599.3	598.8	598.3	597.9	597.9	597.8	597.6	597.5	598.3	599.0
177.5°	601.6	601.2	600.8	600.3	600.1	600.1	600.1	600.1	600.1	600.7	601.3
180°	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3	601.3

TEST NUMBER: P332902-930

CATALOG NUMBER: SA4XXRDIP-C575D590U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	825.9	827.0	827.7	830.2	830.5	832.7	830.5
5°	894.2	898.7	905.6	912.6	913.3	917.7	909.8
7.5°	970.9	981.1	987.6	998.8	1003.3	1006.1	1001.5
10°	1023.7	1033.1	1050.0	1058.3	1066.5	1067.7	1064.0
12.5°	1074.6	1089.7	1103.0	1118.7	1118.3	1129.4	1125.4
15°	1142.6	1158.1	1176.6	1194.0	1200.4	1200.4	1205.4
17.5°	1191.1	1219.6	1238.6	1252.3	1267.3	1269.9	1268.1
20°	1223.8	1254.6	1274.9	1292.7	1302.8	1305.7	1305.7
22.5°	1248.2	1274.4	1294.2	1310.2	1318.6	1321.9	1320.9
25°	1265.1	1287.6	1299.7	1304.4	1306.6	1305.9	1300.0
27.5°	1241.9	1241.0	1233.3	1218.7	1207.8	1201.1	1193.5
30°	1197.8	1181.3	1162.3	1141.3	1114.4	1093.7	1087.4
32.5°	1132.1	1095.0	1062.8	1027.9	998.9	978.3	969.6
35°	1004.9	946.2	898.4	856.5	826.1	807.0	800.6
37.5°	854.1	797.3	738.0	697.4	672.1	652.9	645.7
40°	758.1	696.3	644.6	606.5	580.5	561.8	561.5
42.5°	670.6	611.6	562.9	535.5	507.4	495.0	495.0
45°	549.1	501.8	460.6	439.0	422.2	412.1	409.2
47.5°	454.6	415.6	388.1	370.9	357.2	350.7	346.5
50°	401.6	367.4	345.4	330.5	322.9	314.7	314.1
52.5°	357.4	329.8	312.7	300.6	291.0	286.0	286.2
55°	300.4	278.5	266.4	257.2	249.6	245.8	244.3
57.5°	253.1	236.7	227.9	219.5	216.2	213.2	212.4
60°	223.6	212.5	204.3	197.6	192.9	191.9	191.6
62.5°	199.3	187.7	182.0	176.8	173.3	171.9	171.3
65°	164.3	155.7	150.7	146.6	145.3	143.1	142.8
67.5°	132.5	127.3	124.0	121.2	119.4	119.3	119.3
70°	112.9	110.1	107.2	105.7	104.7	104.0	104.0
72.5°	96.2	94.1	91.7	90.9	90.7	90.1	89.8
75°	73.3	71.1	71.3	69.8	68.5	66.9	66.0
77.5°	51.9	50.4	50.1	49.9	48.8	48.6	49.1
80°	40.3	38.7	38.4	38.7	38.4	37.4	37.4
82.5°	30.7	29.4	29.0	28.8	28.5	28.8	28.3
85°	16.5	15.9	15.9	15.9	16.5	16.1	15.9
87.5°	8.2	8.2	8.5	8.2	8.3	8.1	8.4
90°	12.1	12.7	13.1	13.4	13.5	13.8	13.9
92.5°	19.6	19.9	20.1	20.3	20.4	20.5	20.6
95°	36.3	36.6	36.8	36.8	36.8	36.8	36.8
97.5°	57.0	57.4	57.6	57.6	57.6	57.6	57.6
100°	71.7	72.0	72.1	72.1	72.1	72.1	72.1
102.5°	87.6	87.9	88.1	88.2	88.3	88.4	88.5
105°	111.6	111.9	112.2	112.5	112.8	113.2	113.5
107.5°	137.5	137.8	137.9	137.9	137.9	137.9	137.9
110°	154.3	154.0	154.1	154.4	154.7	155.0	155.3

TEST NUMBER: P332902-930

CATALOG NUMBER: SA4XXRDIP-C575D590U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	172.9	172.9	172.9	173.0	173.0	173.1	173.2
115°	201.5	201.4	201.3	201.2	201.1	201.0	200.9
117.5°	228.8	228.4	228.1	227.9	227.7	227.5	227.3
120°	247.2	246.7	246.5	246.8	247.0	247.2	247.4
122.5°	266.4	266.0	265.6	265.2	264.9	264.5	264.2
125°	294.2	294.0	293.8	293.6	293.3	293.2	292.9
127.5°	320.7	320.5	320.3	320.2	320.0	319.8	319.7
130°	339.3	339.1	338.8	338.3	337.9	337.5	337.1
132.5°	356.8	356.6	356.4	356.2	356.0	355.9	355.7
135°	383.0	382.8	382.5	382.2	381.9	381.6	381.3
137.5°	408.3	408.1	407.9	408.0	408.1	408.1	408.2
140°	425.2	425.1	424.9	424.9	424.8	424.7	424.5
142.5°	441.1	441.0	441.0	441.0	441.0	440.9	440.9
145°	464.7	464.6	464.4	464.1	463.7	463.4	463.2
147.5°	486.2	486.2	486.1	486.0	485.8	485.8	485.7
150°	499.9	499.9	499.9	499.7	499.6	499.5	499.5
152.5°	512.9	513.1	513.1	512.9	512.6	512.3	512.1
155°	530.8	531.3	531.3	530.8	530.4	530.0	529.6
157.5°	546.5	546.8	546.7	546.4	546.1	545.7	545.4
160°	556.1	556.4	556.4	555.9	555.3	554.8	554.3
162.5°	565.1	565.7	565.7	565.2	564.6	564.1	563.6
165°	576.6	577.2	577.3	576.9	576.5	576.1	575.7
167.5°	586.3	586.9	586.9	586.3	585.6	585.0	584.3
170°	591.5	592.1	592.1	591.3	590.6	589.9	589.1
172.5°	595.5	596.1	596.1	595.4	594.7	593.9	593.3
175°	599.7	600.4	600.4	599.7	599.0	598.3	597.5
177.5°	601.9	602.4	602.4	601.8	601.1	600.4	599.7
180°	601.3	601.3	601.3	601.3	601.3	601.3	601.3

(END OF REPORT)